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: **E13-11406**

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.

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

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.

E13-11406

Client JMC Environmental Consultants

Project ARSYNCO

Received On 11/14/2013@17:15

Lab ID	Client Sample ID	Depth Top/Bottom	Sampling Time	Matrix	# of Container
11406-001	OO-38 (0-1.0)	0/1	11/14/2013@11:40	Soil	1
11406-002	OO-38 (1.0-2.0)	1/2	11/14/2013@11:41	Soil	1
11406-003	NN-39 (0-1.0)	0/1	11/14/2013@11:55	Soil	1
11406-004	NN-39 (1.0-2.0)	1/2	11/14/2013@11:56	Soil	1
11406-005	NN-40 (0-1.0)	0/1	11/14/2013@12:13	Soil	1
11406-006	NN-40 (1.0-2.0)	1/2	11/14/2013@12:14	Soil	1
11406-007	MM-40 (0-1.0)	0/1	11/14/2013@12:30	Soil	1
11406-008	MM-40 (1.0-2.0)	1/2	11/14/2013@12:31	Soil	1
11406-009	PP-37 (0-1.0)	0/1	11/14/2013@13:07	Soil	1
11406-010	PP-37 (1.0-2.0)	1/2	11/14/2013@13:08	Soil	1
11406-011	PP-36 (0-1.0)	0/1	11/14/2013@13:45	Soil	1
11406-012	PP-36 (1.0-2.0)	1/2	11/14/2013@13:46	Soil	1
11406-013	JJ-39 (2.0-3.0)	2/3	11/14/2013@14:21	Soil	1
11406-014	JJ-40 (0-1.0)	0/1	11/14/2013@14:58	Soil	1
11406-015	JJ-40 (1.0-2.0)	1/2	11/14/2013@14:59	Soil	1
11406-016	FB-34	n/a	11/14/2013@15:10	Aqueous	2

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

INTEGRATED ANALYTICAL LABORATORIES, LLC.

TABLE OF CONTENTS

	Page
Qualifiers	1
Conformance / NonConformance Summaries	2
Results Summary Report	7
Analytical Results	10
PCBs	
Methodology Summary *	
PCBs	27
PCBs QC Summary	28
Surrogate Percent Recovery Summary	
LCS, MS/MSD Recovery Summary	
Method Blank Summary	
Initial Calibration Summary	
Initial/Continuing Calibration Verification Summary	
Retention Time Shift Summary	
PCBs Sample Data	74
Sample Quant Report and Chromatogram	
Method Blank Results	
Method Blank Quant Report and Chromatogram	
Sample Tracking	116
Chains of Custody	
Project Information	
Sample Receipt Verification	
Laboratory Chronicle	
Last Page of the Report	122

This report was finalized on December 04, 2013

* Methodology is included in the IAL Project Information Page

INTEGRATED ANALYTICAL LABORATORIES, LLC.

DEFINITIONS / QUALIFIERS

DATA QUALIFIERS

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

C Indicates analyte is a common laboratory contaminant.

D Indicates analyte was reported from diluted analysis.

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

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

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

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

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

REPORTING DEFINITIONS

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

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

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

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

DF Dilution Factor

LCS Laboratory Control Sample

LCSD Laboratory Control Sample Duplicate

MS Matrix Spike

MSD Matrix Spike Duplicate

DUP Duplicate

CONFORMANCE / NON-CONFORMANCE SUMMARIES

INTEGRATED ANALYTICAL LABORATORIES, LLC.

CONFORMANCE / NONCONFORMANCE SUMMARY

Integrated Analytical Laboratories, LLC. received one (1) aqueous and fifteen (15) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-11406, Project: ARSYNCO) on November 14, 2013 for the analysis of:

(16) 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

12/3/13
Date

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-11406

PCB By 8082A

Batch ID: 131115-13	**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

E13-11406

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- No dilution was performed for samples 001 through 006.

Nicole Bar 11/19/2013

Signature Date

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-11406

PCB By 8082A

Batch ID: 131120-06	**Matrix: Soil**

QC

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery did not meet QC criteria. For samples 008 and 011 due to matrix inteference.
- 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: 007, 008, 009, 010, 011, 012, 013, 014, 015

E13-11406

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- No dilution was performed for samples 007 through 015.

Nicole Cooper 11/21/2013

Signature Date

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-11406

PCB By 8082A

Batch ID: 131120-09	**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: 016
- The following samples were cleaned up using method 3665A: 016

E13-11406

- 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 016.

Signature 11/22/2013
Date

RESULTS SUMMARY REPORT

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E13-11406

Lab ID:	**11406-016**		
Client ID:	**FB-34**		
Matrix:	**Aqueous**		
Sampled Date	**11/14/13**		
PARAMETER(Units)	Conc	Q	MDL
PCB's (Units)	*(mg/L-ppm)*		
Aroclor-1016	ND		0.00002
Aroclor-1221	ND		0.00002
Aroclor-1232	ND		0.00002
Aroclor-1242	ND		0.00002
Aroclor-1248	ND		0.00002
Aroclor-1254	ND		0.00002
Aroclor-1260	ND		0.00002
Aroclor-1262	ND		0.00002
Aroclor-1268	ND		0.00002
PCBs	ND		

Lab ID:	**11406-001**			**11406-002**			**11406-003**			**11406-004**	
Client ID:	**OO-38 (0-1.0)**			**OO-38 (1.0-2.0)**			**NN-39 (0-1.0)**			**NN-39 (1.0-2.0)**	
Depth:	**0/1**			**1/2**			**0/1**			**1/2**	
Matrix:	**Soil**			**Soil**			**Soil**			**Soil**	
Sampled Date	**11/14/13**			**11/14/13**			**11/14/13**			**11/14/13**	
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		0.106	ND		0.060	ND		0.045	ND		0.111
Aroclor-1221	ND		0.106	ND		0.060	ND		0.045	ND		0.111
Aroclor-1232	ND		0.106	ND		0.060	ND		0.045	ND		0.111
Aroclor-1242	ND		0.106	ND		0.060	ND		0.045	ND		0.111
Aroclor-1248	1.24		0.106	0.485		0.060	2.10		0.045	0.481		0.111
Aroclor-1254	ND		0.106	ND		0.060	ND		0.045	ND		0.111
Aroclor-1260	ND		0.106	ND		0.060	ND		0.045	ND		0.111
Aroclor-1262	ND		0.106	ND		0.060	ND		0.045	ND		0.111
Aroclor-1268	ND		0.106	ND		0.060	ND		0.045	ND		0.111
PCBs	1.24			0.485			2.10			0.481		

Lab ID:	**11406-005**			**11406-006**			**11406-007**			**11406-008**	
Client ID:	**NN-40 (0-1.0)**			**NN-40 (1.0-2.0)**			**MM-40 (0-1.0)**			**MM-40 (1.0-2.0)**	
Depth:	**0/1**			**1/2**			**0/1**			**1/2**	
Matrix:	**Soil**			**Soil**			**Soil**			**Soil**	
Sampled Date	**11/14/13**			**11/14/13**			**11/14/13**			**11/14/13**	
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		0.037	ND		0.117	ND		0.062	ND		0.109
Aroclor-1221	ND		0.037	ND		0.117	ND		0.062	ND		0.109
Aroclor-1232	ND		0.037	ND		0.117	ND		0.062	ND		0.109
Aroclor-1242	ND		0.037	ND		0.117	ND		0.062	ND		0.109
Aroclor-1248	1.71		0.037	0.567		0.117	7.15		0.062	0.600		0.109
Aroclor-1254	ND		0.037	ND		0.117	6.37		0.062	ND		0.109
Aroclor-1260	ND		0.037	ND		0.117	ND		0.062	ND		0.109
Aroclor-1262	ND		0.037	ND		0.117	ND		0.062	ND		0.109
Aroclor-1268	ND		0.037	ND		0.117	ND		0.062	ND		0.109
PCBs	1.71			0.567			13.5			0.600		

ND = Analyzed for but Not Detected at the MDL

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT
Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E13-11406

Lab ID:	**11406-009**			**11406-010**			**11406-011**			**11406-012**	
Client ID:	**PP-37 (0-1.0)**			**PP-37 (1.0-2.0)**			**PP-36 (0-1.0)**			**PP-36 (1.0-2.0)**	
Depth:	**0/1**			**1/2**			**0/1**			**1/2**	
Matrix:	**Soil**			**Soil**			**Soil**			**Soil**	
Sampled Date	**11/14/13**			**11/14/13**			**11/14/13**			**11/14/13**	
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		0.019	ND		0.018	ND		0.111	ND		0.041
Aroclor-1221	ND		0.019	ND		0.018	ND		0.111	ND		0.041
Aroclor-1232	ND		0.019	ND		0.018	ND		0.111	ND		0.041
Aroclor-1242	ND		0.019	ND		0.018	ND		0.111	ND		0.041
Aroclor-1248	0.507		0.019	0.287		0.018	0.753		0.111	ND		0.041
Aroclor-1254	0.592		0.019	ND		0.018	ND		0.111	ND		0.041
Aroclor-1260	ND		0.019	ND		0.018	ND		0.111	ND		0.041
Aroclor-1262	ND		0.019	ND		0.018	ND		0.111	ND		0.041
Aroclor-1268	ND		0.019	ND		0.018	ND		0.111	ND		0.041
PCBs	1.10			0.287			0.753			ND		

Lab ID:	**11406-013**			**11406-014**			**11406-015**		
Client ID:	**JJ-39 (2.0-3.0)**			**JJ-40 (0-1.0)**			**JJ-40 (1.0-2.0)**		
Depth:	**2/3**			**0/1**			**1/2**		
Matrix:	**Soil**			**Soil**			**Soil**		
Sampled Date	**11/14/13**			**11/14/13**			**11/14/13**		
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		0.018	ND		0.073	ND		0.056
Aroclor-1221	ND		0.018	ND		0.073	ND		0.056
Aroclor-1232	ND		0.018	ND		0.073	ND		0.056
Aroclor-1242	ND		0.018	ND		0.073	ND		0.056
Aroclor-1248	ND		0.018	28.0		0.073	ND		0.056
Aroclor-1254	ND		0.018	ND		0.073	ND		0.056
Aroclor-1260	ND		0.018	ND		0.073	ND		0.056
Aroclor-1262	ND		0.018	ND		0.073	ND		0.056
Aroclor-1268	ND		0.018	ND		0.073	ND		0.056
PCBs	ND			28.0			ND		

ND = Analyzed for but Not Detected at the MDL

ANALYTICAL RESULTS

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-001
Client ID: OO-38_(0
Date Received: 11/14/2013
Date Extracted: 11/15/2013
Date Analyzed: 11/18/2013
Data file: Y3072.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.22g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 85.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.264	0.106
Aroclor-1221	ND		0.264	0.106
Aroclor-1232	ND		0.264	0.106
Aroclor-1242	ND		0.264	0.106
Aroclor-1248	1.24		0.264	0.106
Aroclor-1254	ND		0.264	0.106
Aroclor-1260	ND		0.264	0.106
Aroclor-1262	ND		0.264	0.106
Aroclor-1268	ND		0.264	0.106
PCBs	1.24		0.264	0.106

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-002
Client ID: OO-38_(1
Date Received: 11/14/2013
Date Extracted: 11/15/2013
Date Analyzed: 11/18/2013
Data file: Y3073.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.02g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 73.2

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.149	0.060
Aroclor-1221	ND		0.149	0.060
Aroclor-1232	ND		0.149	0.060
Aroclor-1242	ND		0.149	0.060
Aroclor-1248	0.485		0.149	0.060
Aroclor-1254	ND		0.149	0.060
Aroclor-1260	ND		0.149	0.060
Aroclor-1262	ND		0.149	0.060
Aroclor-1268	ND		0.149	0.060
PCBs	0.485		0.149	0.060

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-003
Client ID: NN-39_(0
Date Received: 11/14/2013
Date Extracted: 11/15/2013
Date Analyzed: 11/18/2013
Data file: Y3074.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.29g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 66.4

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.113	0.045
Aroclor-1221	ND		0.113	0.045
Aroclor-1232	ND		0.113	0.045
Aroclor-1242	ND		0.113	0.045
Aroclor-1248	2.10		0.113	0.045
Aroclor-1254	ND		0.113	0.045
Aroclor-1260	ND		0.113	0.045
Aroclor-1262	ND		0.113	0.045
Aroclor-1268	ND		0.113	0.045
PCBs	2.10		0.113	0.045

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-004
Client ID: NN-39_(1
Date Received: 11/14/2013
Date Extracted: 11/15/2013
Date Analyzed: 11/18/2013
Data file: Y3075.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.28g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 86.4

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.279	0.111
Aroclor-1221	ND		0.279	0.111
Aroclor-1232	ND		0.279	0.111
Aroclor-1242	ND		0.279	0.111
Aroclor-1248	0.481		0.279	0.111
Aroclor-1254	ND		0.279	0.111
Aroclor-1260	ND		0.279	0.111
Aroclor-1262	ND		0.279	0.111
Aroclor-1268	ND		0.279	0.111
PCBs	0.481		0.279	0.111

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-005
Client ID: NN-40_(0
Date Received: 11/14/2013
Date Extracted: 11/15/2013
Date Analyzed: 11/18/2013
Data file: Y3076.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.24g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 59

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.093	0.037
Aroclor-1221	ND		0.093	0.037
Aroclor-1232	ND		0.093	0.037
Aroclor-1242	ND		0.093	0.037
Aroclor-1248	1.71		0.093	0.037
Aroclor-1254	ND		0.093	0.037
Aroclor-1260	ND		0.093	0.037
Aroclor-1262	ND		0.093	0.037
Aroclor-1268	ND		0.093	0.037
PCBs	1.71		0.093	0.037

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-006
Client ID: NN-40_(1
Date Received: 11/14/2013
Date Extracted: 11/15/2013
Date Analyzed: 11/18/2013
Data file: Y3051.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.18g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 86.8

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.293	0.117
Aroclor-1221	ND		0.293	0.117
Aroclor-1232	ND		0.293	0.117
Aroclor-1242	ND		0.293	0.117
Aroclor-1248	0.567		0.293	0.117
Aroclor-1254	ND		0.293	0.117
Aroclor-1260	ND		0.293	0.117
Aroclor-1262	ND		0.293	0.117
Aroclor-1268	ND		0.293	0.117
PCBs	0.567		0.293	0.117

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-007
Client ID: MM-40_(0
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/20/2013
Data file: Y3123.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.46g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 76.3

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.155	0.062
Aroclor-1221	ND		0.155	0.062
Aroclor-1232	ND		0.155	0.062
Aroclor-1242	ND		0.155	0.062
Aroclor-1248	7.15		0.155	0.062
Aroclor-1254	6.37		0.155	0.062
Aroclor-1260	ND		0.155	0.062
Aroclor-1262	ND		0.155	0.062
Aroclor-1268	ND		0.155	0.062
PCBs	13.5		0.155	0.062

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-008
Client ID: MM-40_(1
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/20/2013
Data file: Y3124.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.81g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 87.4

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.273	0.109
Aroclor-1221	ND		0.273	0.109
Aroclor-1232	ND		0.273	0.109
Aroclor-1242	ND		0.273	0.109
Aroclor-1248	0.600		0.273	0.109
Aroclor-1254	ND		0.273	0.109
Aroclor-1260	ND		0.273	0.109
Aroclor-1262	ND		0.273	0.109
Aroclor-1268	ND		0.273	0.109
PCBs	0.600		0.273	0.109

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-009
Client ID: PP-37_(0
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/20/2013
Data file: Y3125.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.37g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 21.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.047	0.019
Aroclor-1221	ND		0.047	0.019
Aroclor-1232	ND		0.047	0.019
Aroclor-1242	ND		0.047	0.019
Aroclor-1248	0.507		0.047	0.019
Aroclor-1254	0.592		0.047	0.019
Aroclor-1260	ND		0.047	0.019
Aroclor-1262	ND		0.047	0.019
Aroclor-1268	ND		0.047	0.019
PCBs	1.10		0.047	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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-010
Client ID: PP-37_(1
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/20/2013
Data file: Y3126.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.74g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 21.8

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.045	0.018
Aroclor-1221	ND		0.045	0.018
Aroclor-1232	ND		0.045	0.018
Aroclor-1242	ND		0.045	0.018
Aroclor-1248	0.287		0.045	0.018
Aroclor-1254	ND		0.045	0.018
Aroclor-1260	ND		0.045	0.018
Aroclor-1262	ND		0.045	0.018
Aroclor-1268	ND		0.045	0.018
PCBs	0.287		0.045	0.018

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-011
Client ID: PP-36_(0
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/20/2013
Data file: Y3127.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.13g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 86.0

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.278	0.111
Aroclor-1221	ND		0.278	0.111
Aroclor-1232	ND		0.278	0.111
Aroclor-1242	ND		0.278	0.111
Aroclor-1248	0.753		0.278	0.111
Aroclor-1254	ND		0.278	0.111
Aroclor-1260	ND		0.278	0.111
Aroclor-1262	ND		0.278	0.111
Aroclor-1268	ND		0.278	0.111
PCBs	0.753		0.278	0.111

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-012
Client ID: PP-36_(1
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/20/2013
Data file: Y3128.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.37g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 64.1

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.104	0.041
Aroclor-1221	ND		0.104	0.041
Aroclor-1232	ND		0.104	0.041
Aroclor-1242	ND		0.104	0.041
Aroclor-1248	ND		0.104	0.041
Aroclor-1254	ND		0.104	0.041
Aroclor-1260	ND		0.104	0.041
Aroclor-1262	ND		0.104	0.041
Aroclor-1268	ND		0.104	0.041
PCBs	ND		0.104	0.041

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-013
Client ID: JJ-39_(2
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/20/2013
Data file: Y3129.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.63g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 21.9

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.045	0.018
Aroclor-1221	ND		0.045	0.018
Aroclor-1232	ND		0.045	0.018
Aroclor-1242	ND		0.045	0.018
Aroclor-1248	ND		0.045	0.018
Aroclor-1254	ND		0.045	0.018
Aroclor-1260	ND		0.045	0.018
Aroclor-1262	ND		0.045	0.018
Aroclor-1268	ND		0.045	0.018
PCBs	ND		0.045	0.018

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-014
Client ID: JJ-40_(0
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/20/2013
Data file: Y3130.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.06g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 78.5

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.184	0.073
Aroclor-1221	ND		0.184	0.073
Aroclor-1232	ND		0.184	0.073
Aroclor-1242	ND		0.184	0.073
Aroclor-1248	28.0		0.184	0.073
Aroclor-1254	ND		0.184	0.073
Aroclor-1260	ND		0.184	0.073
Aroclor-1262	ND		0.184	0.073
Aroclor-1268	ND		0.184	0.073
PCBs	28.0		0.184	0.073

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-015
Client ID: JJ-40_(1
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/21/2013
Data file: Y3131.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.26g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 73.1

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.141	0.056
Aroclor-1221	ND		0.141	0.056
Aroclor-1232	ND		0.141	0.056
Aroclor-1242	ND		0.141	0.056
Aroclor-1248	ND		0.141	0.056
Aroclor-1254	ND		0.141	0.056
Aroclor-1260	ND		0.141	0.056
Aroclor-1262	ND		0.141	0.056
Aroclor-1268	ND		0.141	0.056
PCBs	ND		0.141	0.056

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

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-11406-016
Client ID: FB-34
Date Received: 11/14/2013
Date Extracted: 11/20/2013
Date Analyzed: 11/21/2013
Data file: R5536.D

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

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

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

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

PCB DATA

PCB QC SUMMARY

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 11/18/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKS131115-13	SOIL	112		80		103		89	
PCB	LCSS131115-13	SOIL	112		97		102		100	
NN-40_(1	E13-11406-006	SOIL	138		114		132		134	
PCB	11406-006MS	SOIL	132		98		124		119	
PCB	11406-006MSD	SOIL	131		102		126		122	
KK-41_(0	E13-11347-009	SOIL	147		125		136		123	
KK-41_(1	E13-11347-010	SOIL	130		101		115		117	
LL-40_(0	E13-11347-011	SOIL	126		116		115		109	
LL-40_(1	E13-11347-012	SOIL	122		103		111		116	
LL-41_(0	E13-11347-013	SOIL	112		87		103		95	
LL-41_(1	E13-11347-014	SOIL	122		103		117		112	
MM-39_(1	E13-11347-016	SOIL	147		141		131		142	
NN-38_(0	E13-11347-017	SOIL	138		123		128		131	
NN-38_(1	E13-11347-018	SOIL	126		101		125		107	
OO-37_(0	E13-11347-019	SOIL	123		97		121		104	
OO-37_(1	E13-11347-020	SOIL	118		87		115		98	
KK-41_(1	E13-11347-010DL	SOIL	135		87		122		131	
MM-39_(0	E13-11347-015	SOIL	66		109		59		74	
MM-39_(1	E13-11347-016DL	SOIL	148		125		148		130	
SOIL_WAS	E13-11366-004	SOIL	115		89		105		105	
CONCRETE	E13-11366-005	SOLID	97		56		91		69	
OO-38_(0	E13-11406-001	SOIL	128		98		122		110	
OO-38_(1	E13-11406-002	SOIL	114		78		114		98	
NN-39_(0	E13-11406-003	SOIL	118		78		109		98	
NN-39_(1	E13-11406-004	SOIL	131		87		123		111	

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

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

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 11/18/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
NN-40_(0	E13-11406-005	SOIL	123		81		115		100	

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

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

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 11/20/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKS131120-06	SOIL	116		93		121		102	
PCB	LCSS131120-06	SOIL	116		91		121		95	
MM-40_(0	E13-11406-007	SOIL	149		110		149		124	
MM-40_(1	E13-11406-008	SOIL	157	M	124		167	M	131	
PP-37_(0	E13-11406-009	SOIL	120		91		125		92	
PP-37_(1	E13-11406-010	SOIL	116		90		119		90	
PP-36_(0	E13-11406-011	SOIL	157	M	119		164	M	118	
PP-36_(1	E13-11406-012	SOIL	134		96		142		105	
JJ-39_(2	E13-11406-013	SOIL	119		86		124		92	
JJ-40_(0	E13-11406-014	SOIL	141		107		147		115	
JJ-40_(1	E13-11406-015	SOIL	135		108		147		117	
UP-B1	E13-11434-001	SOIL	92		74		98		79	
UP-B2B	E13-11434-003	SOIL	110		88		114		98	
UP-B3B	E13-11434-005	SOIL	112		88		115		85	
UP-B4B	E13-11434-007	SOIL	112		83		117		87	
PCB	11434-020MS	SOIL	108		85		112		80	
PCB	11434-020MSD	SOIL	110		76		114		78	
UP-B5B	E13-11434-009	SOIL	96		76		100		85	
UP-B6B	E13-11434-011	SOIL	86		59		84		94	
UP-B7B	E13-11434-013	SOIL	119		82		125		87	
UP-B8B	E13-11434-015	SOIL	112		76		118		77	
UP-B9B	E13-11434-017	SOIL	112		90		118		93	
UP-B10B	E13-11434-019	SOIL	115		82		120		87	
UP-WB1S	E13-11434-020	SOIL	117		79		123		82	

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

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

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 11/21/2013

Client ID	Lab Sample ID	Matrix	TCMX 1 % rec	#	DCB 1 % rec	#	TCMX 2 % rec	#	DCB 2 % rec	#
PCB	BLKA131120-09	AQUEOUS	92		79		97		79	
EFF_COMP	E13-11310-001	WASTE WATER	58		63		59		69	
PH-LT-1	E13-11473-001	AQUEOUS	60		91		56		85	
FB-34	E13-11406-016	AQUEOUS	87		81		87		95	
UP-P4	E13-11434-022	AQUEOUS	80		81		80		92	
UP-P5	E13-11434-023	AQUEOUS	84		93		85		83	
PCB	11310-001MS	WASTE WATER	72		73		72		75	
PCB	11310-001MSD	WASTE WATER	76		88		75		85	
PCB	LCSA131120-09	AQUEOUS	74		67		74		62	

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

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

SOIL PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSS131115-13

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	487.5	98	40 - 140
Aroclor-1260	500.0	0.0	525.7	105	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: LCSS131120-06

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	490.7	98	40 - 140
Aroclor-1260	500.0	0.0	533.7	107	40 - 140

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

* Values outside of QC limits

NC Non calculable

Spike Recovery: __0___ out of __2__ outside limits

AQUEOUS PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSA131120-09

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	446.8	89	40 - 140
Aroclor-1260	500.0	0.0	508.8	102	40 - 140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
NC Non calculable

Spike Recovery: __0___ out of __2__ outside limits

SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-11406-006

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	588.9	118	40 - 140
Aroclor-1260	500.0	0.0	566.5	113	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % # REC	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.0	580.7	116	2	50	40 - 140
Aroclor-1260	0.0	576.4	115	2	50	40 - 140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
NC Non calculable

RPD: __0___ out of __2__ outside limits

Spike Recovery: __0___ out of __4__ outside limits

SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-11434-020

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	419.9	84	40 - 140
Aroclor-1260	500.0	0.0	452.7	91	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	#	MSD % REC	% RPD	#	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.0	421.8		84	0		50	40 - 140
Aroclor-1260	0.0	400.4		80	13		50	40 - 140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
NC Non calculable

RPD: __0___ out of __2__ outside limits

Spike Recovery: __0___ out of __4__ outside limits

AQUEOUS PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-11310-001

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	434.4	87	40 - 140
Aroclor-1260	500.0	0.0	556.4	111	40 - 140

Compound	SAMPLE CONC. (ug/L)	MSD CONC. (ug/L)	#	MSD % REC	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.0	401.3		80	8	50	40 - 140
Aroclor-1260	0.0	503.2		101	9	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: Y3049.D

Instrument ID: GC-Y

Date Extracted: 11/15/2013

Matrix: SOIL

Date Analyzed: 11/18/2013

Time Analyzed: 11:06

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

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSS131115-13	11/18/2013	11:23
NN-40_(1	E13-11406-006	11/18/2013	11:40
PCB	11406-006MS	11/18/2013	11:58
PCB	11406-006MSD	11/18/2013	12:15
KK-41_(0	E13-11347-009	11/18/2013	12:33
KK-41_(1	E13-11347-010	11/18/2013	12:50
LL-40_(0	E13-11347-011	11/18/2013	13:07
LL-40_(1	E13-11347-012	11/18/2013	13:25
LL-41_(0	E13-11347-013	11/18/2013	13:42
LL-41_(1	E13-11347-014	11/18/2013	14:00
MM-39_(1	E13-11347-016	11/18/2013	15:13
NN-38_(0	E13-11347-017	11/18/2013	15:30
NN-38_(1	E13-11347-018	11/18/2013	15:47
OO-37_(0	E13-11347-019	11/18/2013	16:05
OO-37_(1	E13-11347-020	11/18/2013	16:22
KK-41_(1	E13-11347-010DL	11/18/2013	16:39
MM-39_(0	E13-11347-015	11/18/2013	16:57
MM-39_(1	E13-11347-016DL	11/18/2013	17:14
SOIL_WAS	E13-11366-004	11/18/2013	17:32
CONCRETE	E13-11366-005	11/18/2013	17:49
OO-38_(0	E13-11406-001	11/18/2013	18:06
OO-38_(1	E13-11406-002	11/18/2013	18:24
NN-39_(0	E13-11406-003	11/18/2013	18:41
NN-39_(1	E13-11406-004	11/18/2013	18:58
NN-40_(0	E13-11406-005	11/18/2013	19:16

PCB METHOD BLANK SUMMARY

Lab File ID: Y3121.D

Instrument ID: GC-Y

Date Extracted: 11/20/2013

Matrix: SOIL

Date Analyzed: 11/20/2013

Time Analyzed: 21:24

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

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSS131120-06	11/20/2013	21:41
MM-40_(0	E13-11406-007	11/20/2013	21:58
MM-40_(1	E13-11406-008	11/20/2013	22:16
PP-37_(0	E13-11406-009	11/20/2013	22:33
PP-37_(1	E13-11406-010	11/20/2013	22:50
PP-36_(0	E13-11406-011	11/20/2013	23:07
PP-36_(1	E13-11406-012	11/20/2013	23:24
JJ-39_(2	E13-11406-013	11/20/2013	23:42
JJ-40_(0	E13-11406-014	11/20/2013	23:59
JJ-40_(1	E13-11406-015	11/21/2013	00:16
UP-B1	E13-11434-001	11/21/2013	01:43
UP-B2B	E13-11434-003	11/21/2013	02:00
UP-B3B	E13-11434-005	11/21/2013	02:17
UP-B4B	E13-11434-007	11/21/2013	02:34
PCB	11434-020MS	11/21/2013	04:52
PCB	11434-020MSD	11/21/2013	05:10
UP-B5B	E13-11434-009	11/21/2013	11:03
UP-B6B	E13-11434-011	11/21/2013	11:20
UP-B7B	E13-11434-013	11/21/2013	13:12
UP-B8B	E13-11434-015	11/21/2013	13:29
UP-B9B	E13-11434-017	11/21/2013	13:46
UP-B10B	E13-11434-019	11/21/2013	14:04
UP-WB1S	E13-11434-020	11/21/2013	14:21

PCB METHOD BLANK SUMMARY

Lab File ID: R5533.D

Instrument ID: GC-R

Date Extracted: 11/20/2013

Matrix: AQUEOUS

Date Analyzed: 11/21/2013

Time Analyzed: 14:07

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

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
EFF_COMP	E13-11310-001	11/21/2013	14:24
PH-LT-1	E13-11473-001	11/21/2013	14:41
FB-34	E13-11406-016	11/21/2013	14:59
UP-P4	E13-11434-022	11/21/2013	15:16
UP-P5	E13-11434-023	11/21/2013	15:34
PCB	11310-001MS	11/21/2013	15:53
PCB	11310-001MSD	11/21/2013	16:10
PCB	LCSA131120-09	11/21/2013	16:28

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/24/2013

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

Data File: Y2478.D Y2477.D Y2476.D Y2475.D Y2474.D

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1016	3.22	3.22	3.22	3.22	3.22	3.22	3.15	3.29
Aroclor-1016 {2}	4.04	4.04	4.04	4.04	4.04	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	5.09	5.09	5.09	5.09	5.09	5.02	5.16
Aroclor-1016 {5}	5.48	5.48	5.49	5.49	5.49	5.48	5.41	5.55
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			3.22				3.15	3.29
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			4.44				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}			5.99				5.91	6.07
Aroclor-1248 {5}			6.26				6.18	6.34
Aroclor-1254			6.38				6.30	6.46
Aroclor-1254 {2}			6.81				6.73	6.89
Aroclor-1254 {3}			6.98				6.89	7.07
Aroclor-1254 {4}			7.42				7.33	7.51
Aroclor-1254 {5}			8.26				8.17	8.35
Aroclor-1260	8.26	8.25	8.25	8.25	8.25	8.25	7.35	9.15
Aroclor-1260 {2}	8.93	8.93	8.93	8.93	8.93	8.93	8.03	9.83
Aroclor-1260 {3}	9.40	9.40	9.40	9.40	9.40	9.40	8.50	10.30
Aroclor-1260 {4}	9.88	9.88	9.88	9.88	9.88	9.88	8.98	10.78
Aroclor-1260 {5}	10.94	10.94	10.94	10.94	10.94	10.94	10.04	11.84

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/24/2013 **Instrument ID:** GC-Y
GC Column (1st): DB-5

Data File: Y2478.D Y2477.D Y2476.D Y2475.D Y2474.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	447576	450365	388612	345786	323686	391205	14.74
Aroclor-1016 {2}	627708	605785	540310	484438	452371	542122	13.92
Aroclor-1016 {3}	874719	765872	684369	615358	580856	704235	16.86
Aroclor-1016 {4}	397732	395187	335989	294619	274788	339663	16.59
Aroclor-1016 {5}	650000	629542	566447	507766	477446	566240	13.19
Aroclor-1221			192071				
Aroclor-1221 {2}			294477				
Aroclor-1221 {3}			194494				
Aroclor-1221 {4}			645697				
Aroclor-1221 {5}			155613				
Aroclor-1232			485451				
Aroclor-1232 {2}			295113				
Aroclor-1232 {3}			259888				
Aroclor-1232 {4}			289070				
Aroclor-1232 {5}			363887				
Aroclor-1242			436017				
Aroclor-1242 {2}			286372				
Aroclor-1242 {3}			394744				
Aroclor-1242 {4}			571815				
Aroclor-1242 {5}			506345				
Aroclor-1248			1024891				
Aroclor-1248 {2}			610408				
Aroclor-1248 {3}			783514				
Aroclor-1248 {4}			1193332				
Aroclor-1248 {5}			943616				
Aroclor-1254			1201203				
Aroclor-1254 {2}			793076				
Aroclor-1254 {3}			1437056				
Aroclor-1254 {4}			1570039				
Aroclor-1254 {5}			1434237				
Aroclor-1260	2164689	1822060	1649814	1491973	1376386	1700984	18.15
Aroclor-1260 {2}	1017786	828195	794125	753368	686484	815992	15.26
Aroclor-1260 {3}	2276656	1959820	1965580	1727080	1567462	1899320	14.18
Aroclor-1260 {4}	1326111	1138653	1050773	938551	874861	1065790	16.65
Aroclor-1260 {5}	427655	497378	493376	416237	392419	445413	10.64
						Average %RSD	15.02

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/24/2013

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

Data File: Y2478.C Y2477.C Y2476.C Y2475.C Y2474.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WI NDOW FROM	TO
Aroclor-1016	3.77	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	4.35	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	5.31	5.31	5.31	5.32	5.25	5.39
Aroclor-1016 {5}	5.50	5.50	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}			3.76				3.69	3.83
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			7.08				7.00	7.16
Aroclor-1254 {2}			7.67				7.59	7.75
Aroclor-1254 {3}			8.28				8.19	8.37
Aroclor-1254 {4}			8.51				8.42	8.60
Aroclor-1254 {5}			9.10				9.01	9.19
Aroclor-1260	7.86	7.86	7.85	7.85	7.85	7.85	6.95	8.75
Aroclor-1260 {2}	8.11	8.11	8.10	8.10	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}	10.21	10.21	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: 10/24/2013

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

Data File: Y2478.C Y2477.C Y2476.C Y2475.C Y2474.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1016	1077370	953453	804609	701121	709556	849222	19.20
Aroclor-1016 {2}	1918671	1960329	1608123	1381664	1325023	1638762	17.98
Aroclor-1016 {3}	4324478	4205440	4062198	3620367	3349029	3912303	10.54
Aroclor-1016 {4}	1861148	1868934	1815999	1632266	1512673	1738204	9.11
Aroclor-1016 {5}	1430926	1439767	1411203	1275811	1190022	1349546	8.24
Aroclor-1221			361519				
Aroclor-1221 {2}			570497				
Aroclor-1221 {3}			440309				
Aroclor-1221 {4}			1560405				
Aroclor-1221 {5}			298298				
Aroclor-1232			997030				
Aroclor-1232 {2}			442734				
Aroclor-1232 {3}			973980				
Aroclor-1232 {4}			762359				
Aroclor-1232 {5}			1048394				
Aroclor-1242			664309				
Aroclor-1242 {2}			1138194				
Aroclor-1242 {3}			1485300				
Aroclor-1242 {4}			1259374				
Aroclor-1242 {5}			2420970				
Aroclor-1248			2492251				
Aroclor-1248 {2}			3757343				
Aroclor-1248 {3}			2697779				
Aroclor-1248 {4}			2357309				
Aroclor-1248 {5}			1352106				
Aroclor-1254			3041071				
Aroclor-1254 {2}			2368537				
Aroclor-1254 {3}			2266311				
Aroclor-1254 {4}			1381114				
Aroclor-1254 {5}			3490970				
Aroclor-1260	1756745	1609704	1667033	1492660	1384278	1582084	9.25
Aroclor-1260 {2}	2514617	2346239	2396908	2136545	1972010	2273264	9.54
Aroclor-1260 {3}	2272642	2216880	2173205	1982348	1847768	2098568	8.47
Aroclor-1260 {4}	5104232	4840602	4813333	4433949	4194747	4677373	7.70
Aroclor-1260 {5}	3460295	3482324	3518699	3226187	3070976	3351696	5.80
						Average %RSD	10.58

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/24/2013

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

Data File: Y2478.D Y2477.D Y2476.D Y2475.D Y2474.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}			9.40				9.28	9.52
Aroclor-1262 {3}			10.03				9.91	10.15
Aroclor-1262 {4}			10.12				10.00	10.24
Aroclor-1262 {5}			10.94				10.82	11.06
Aroclor-1268			10.03				9.91	10.15
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}			12.03				11.91	12.15

GC Column (2nd): DB-1701P

Data File: Y2478.C Y2477.C Y2476.C Y2475.C Y2474.C

Compound	RT OF STANDARDS 10	50	500	1000	2000	MEAN RT	RT WINDOW FROM	TO
Aroclor-1262			9.69				9.57	9.81
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}			11.03				10.91	11.15
Aroclor-1268 {4}			12.25				12.13	12.37
Aroclor-1268 {5}			12.48				12.36	12.60

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 10/24/2013 **Instrument ID:** GC-Y
GC Column (1st): DB-5

Data File: Y2478.D Y2477.D Y2476.D Y2475.D Y2474.D

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			1354994				
Aroclor-1262 {2}			2620645				
Aroclor-1262 {3}			1033050				
Aroclor-1262 {4}			1158982				
Aroclor-1262 {5}			1018815				
Aroclor-1268			2640310				
Aroclor-1268 {2}			2756865				
Aroclor-1268 {3}			2304087				
Aroclor-1268 {4}			7029273				
Aroclor-1268 {5}			4052302				

GC Column (2nd): DB-1701P

Data File: Y2478.C Y2477.C Y2476.C Y2475.C Y2474.C

Compound	CALIBRATION FACTORS 10	50	500	1000	2000	MEAN	%RSD
Aroclor-1262			2852689				
Aroclor-1262 {2}			6641766				
Aroclor-1262 {3}			2469488				
Aroclor-1262 {4}			4736320				
Aroclor-1262 {5}			986321				
Aroclor-1268			7175428				
Aroclor-1268 {2}			7449976				
Aroclor-1268 {3}			6194617				
Aroclor-1268 {4}			17839550				
Aroclor-1268 {5}			10591825				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/18/2013 **Instrument ID:** GC-Y

Data File: Y3048.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.22	3.15	3.29	391205	369245	5.61
Aroclor-1016 {2}	4.04	3.97	4.11	542122	501810	7.44
Aroclor-1016 {3}	4.59	4.52	4.66	704235	640933	8.99
Aroclor-1016 {4}	5.09	5.02	5.16	339663	315819	7.02
Aroclor-1016 {5}	5.49	5.41	5.55	566240	523860	7.48
Aroclor-1260	8.25	7.35	9.15	1700984	1401993	17.58
Aroclor-1260 {2}	8.93	8.03	9.83	815992	666569	18.31
Aroclor-1260 {3}	9.40	8.50	10.30	1899320	1581091	16.75
Aroclor-1260 {4}	9.88	8.98	10.78	1065790	880836	17.35
Aroclor-1260 {5}	10.94	10.04	11.84	445413	394775	11.37

Data File: Y3048.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.75	3.69	3.83	849222	760788	10.41
Aroclor-1016 {2}	4.35	4.29	4.43	1638762	1472380	10.15
Aroclor-1016 {3}	5.10	5.04	5.18	3912303	3793089	3.05
Aroclor-1016 {4}	5.31	5.25	5.39	1738204	1670767	3.88
Aroclor-1016 {5}	5.48	5.42	5.56	1349546	1303131	3.44
Aroclor-1260	7.84	6.95	8.75	1582084	1409908	10.88
Aroclor-1260 {2}	8.10	7.21	9.01	2273264	2040156	10.25
Aroclor-1260 {3}	9.69	8.80	10.60	2098568	1766724	15.81
Aroclor-1260 {4}	10.19	9.30	11.10	4677373	3957430	15.39
Aroclor-1260 {5}	10.78	9.89	11.69	3351696	2816623	15.96

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/18/2013 **Instrument ID:** GC-Y

Data File: Y3061.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.22	3.15	3.29	391205	408026	4.30
Aroclor-1016 {2}	4.04	3.97	4.11	542122	564712	4.17
Aroclor-1016 {3}	4.59	4.52	4.66	704235	709860	0.80
Aroclor-1016 {4}	5.09	5.02	5.16	339663	358024	5.41
Aroclor-1016 {5}	5.48	5.41	5.55	566240	580030	2.44
Aroclor-1260	8.26	7.35	9.15	1700984	1537952	9.58
Aroclor-1260 {2}	8.93	8.03	9.83	815992	687421	15.76
Aroclor-1260 {3}	9.40	8.50	10.30	1899320	1740122	8.38
Aroclor-1260 {4}	9.88	8.98	10.78	1065790	915346	14.12
Aroclor-1260 {5}	10.94	10.04	11.84	445413	393163	11.73

Data File: Y3061.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	849222	976354	14.97
Aroclor-1016 {2}	4.35	4.29	4.43	1638762	1864896	13.80
Aroclor-1016 {3}	5.10	5.04	5.18	3912303	4188092	7.05
Aroclor-1016 {4}	5.31	5.25	5.39	1738204	1772192	1.96
Aroclor-1016 {5}	5.49	5.42	5.56	1349546	1421380	5.32
Aroclor-1260	7.85	6.95	8.75	1582084	1565527	1.05
Aroclor-1260 {2}	8.10	7.21	9.01	2273264	2220153	2.34
Aroclor-1260 {3}	9.69	8.80	10.60	2098568	1881227	10.36
Aroclor-1260 {4}	10.19	9.30	11.10	4677373	4265434	8.81
Aroclor-1260 {5}	10.78	9.89	11.69	3351696	2972178	11.32

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/18/2013 **Instrument ID:** GC-Y

Data File: Y3077.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.22	3.15	3.29	391205	406587	3.93
Aroclor-1016 {2}	4.04	3.97	4.11	542122	560229	3.34
Aroclor-1016 {3}	4.59	4.52	4.66	704235	705160	0.13
Aroclor-1016 {4}	5.10	5.02	5.16	339663	352371	3.74
Aroclor-1016 {5}	5.49	5.41	5.55	566240	579403	2.32
Aroclor-1260	8.26	7.35	9.15	1700984	1619828	4.77
Aroclor-1260 {2}	8.93	8.03	9.83	815992	724623	11.20
Aroclor-1260 {3}	9.40	8.50	10.30	1899320	1864071	1.86
Aroclor-1260 {4}	9.88	8.98	10.78	1065790	980527	8.00
Aroclor-1260 {5}	10.94	10.04	11.84	445413	428646	3.76

Data File: Y3077.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.75	3.69	3.83	849222	831274	2.11
Aroclor-1016 {2}	4.35	4.29	4.43	1638762	1851551	12.98
Aroclor-1016 {3}	5.10	5.04	5.18	3912303	4193001	7.17
Aroclor-1016 {4}	5.31	5.25	5.39	1738204	1761915	1.36
Aroclor-1016 {5}	5.48	5.42	5.56	1349546	1418570	5.11
Aroclor-1260	7.84	6.95	8.75	1582084	1553477	1.81
Aroclor-1260 {2}	8.10	7.21	9.01	2273264	2262750	0.46
Aroclor-1260 {3}	9.68	8.80	10.60	2098568	2013619	4.05
Aroclor-1260 {4}	10.19	9.30	11.10	4677373	4612801	1.38
Aroclor-1260 {5}	10.78	9.89	11.69	3351696	3228747	3.67

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

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

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

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

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

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

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

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

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

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

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

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

GC Column (2nd): DB-1701P

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

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

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

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

GC Column (2nd): DB-1701P

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

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

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/20/2013 **Instrument ID:** GC-Y

Data File: Y3120.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	354686	358538	1.09
Aroclor-1016 {2}	4.05	3.98	4.12	504392	483795	4.08
Aroclor-1016 {3}	4.60	4.53	4.67	648138	615132	5.09
Aroclor-1016 {4}	5.10	5.03	5.17	327024	311738	4.67
Aroclor-1016 {5}	5.49	5.42	5.56	532246	512939	3.63
Aroclor-1260	8.26	7.37	9.17	1604075	1522534	5.08
Aroclor-1260 {2}	8.94	8.04	9.84	783359	742634	5.20
Aroclor-1260 {3}	9.41	8.51	10.31	1934226	1861430	3.76
Aroclor-1260 {4}	9.89	8.99	10.79	1053013	1008407	4.24
Aroclor-1260 {5}	10.95	10.05	11.85	493856	516354	4.56

Data File: Y3120.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.75	3.68	3.82	710845	727409	2.33
Aroclor-1016 {2}	4.35	4.28	4.42	1420225	1413256	0.49
Aroclor-1016 {3}	5.10	5.03	5.17	3465247	3425922	1.13
Aroclor-1016 {4}	5.30	5.23	5.37	1540808	1596887	3.64
Aroclor-1016 {5}	5.48	5.41	5.55	1187939	1248208	5.07
Aroclor-1260	7.83	6.93	8.73	1440400	1506947	4.62
Aroclor-1260 {2}	8.09	7.19	8.99	2107103	2194239	4.14
Aroclor-1260 {3}	9.67	8.77	10.57	1932676	2066454	6.92
Aroclor-1260 {4}	10.18	9.28	11.08	4455869	4787775	7.45
Aroclor-1260 {5}	10.76	9.86	11.66	3260553	3475169	6.58

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/21/2013 **Instrument ID:** GC-Y

Data File: Y3132.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.23	3.16	3.30	354686	344837	2.78
Aroclor-1016 {2}	4.05	3.98	4.12	504392	466641	7.48
Aroclor-1016 {3}	4.60	4.53	4.67	648138	591308	8.77
Aroclor-1016 {4}	5.10	5.03	5.17	327024	302148	7.61
Aroclor-1016 {5}	5.50	5.42	5.56	532246	489328	8.06
Aroclor-1260	8.27	7.37	9.17	1604075	1439869	10.24
Aroclor-1260 {2}	8.94	8.04	9.84	783359	691811	11.69
Aroclor-1260 {3}	9.41	8.51	10.31	1934226	1743284	9.87
Aroclor-1260 {4}	9.89	8.99	10.79	1053013	940740	10.66
Aroclor-1260 {5}	10.95	10.05	11.85	493856	446436	9.60

Data File: Y3132.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.75	3.68	3.82	710845	710592	0.04
Aroclor-1016 {2}	4.35	4.28	4.42	1420225	1390620	2.08
Aroclor-1016 {3}	5.10	5.03	5.17	3465247	3094895	10.69
Aroclor-1016 {4}	5.30	5.23	5.37	1540808	1376733	10.65
Aroclor-1016 {5}	5.48	5.41	5.55	1187939	1205554	1.48
Aroclor-1260	7.83	6.93	8.73	1440400	1433932	0.45
Aroclor-1260 {2}	8.09	7.19	8.99	2107103	2078048	1.38
Aroclor-1260 {3}	9.67	8.77	10.57	1932676	1922559	0.52
Aroclor-1260 {4}	10.18	9.28	11.08	4455869	4545733	2.02
Aroclor-1260 {5}	10.76	9.86	11.66	3260553	3229666	0.95

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/21/2013 **Instrument ID:** GC-Y

Data File: Y3146.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.23	3.16	3.30	354686	334515	5.69
Aroclor-1016 {2}	4.05	3.98	4.12	504392	454055	9.98
Aroclor-1016 {3}	4.60	4.53	4.67	648138	571764	11.78
Aroclor-1016 {4}	5.10	5.03	5.17	327024	289563	11.46
Aroclor-1016 {5}	5.49	5.42	5.56	532246	471149	11.48
Aroclor-1260	8.27	7.37	9.17	1604075	1333059	16.90
Aroclor-1260 {2}	8.94	8.04	9.84	783359	633106	19.18
Aroclor-1260 {3}	9.41	8.51	10.31	1934226	1605070	17.02
Aroclor-1260 {4}	9.89	8.99	10.79	1053013	853186	18.98
Aroclor-1260 {5}	10.95	10.05	11.85	493856	441805	10.54

Data File: Y3146.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.75	3.68	3.82	710845	673153	5.30
Aroclor-1016 {2}	4.35	4.28	4.42	1420225	1321152	6.98
Aroclor-1016 {3}	5.09	5.03	5.17	3465247	3333742	3.79
Aroclor-1016 {4}	5.30	5.23	5.37	1540808	1456734	5.46
Aroclor-1016 {5}	5.48	5.41	5.55	1187939	1134354	4.51
Aroclor-1260	7.83	6.93	8.73	1440400	1283273	10.91
Aroclor-1260 {2}	8.09	7.19	8.99	2107103	1826414	13.32
Aroclor-1260 {3}	9.67	8.77	10.57	1932676	1642755	15.00
Aroclor-1260 {4}	10.18	9.28	11.08	4455869	3806759	14.57
Aroclor-1260 {5}	10.76	9.86	11.66	3260553	2725530	16.41

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/21/2013 **Instrument ID:** GC-Y

Data File: Y3147.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	354686	340806	3.91
Aroclor-1016 {2}	4.05	3.98	4.12	504392	466090	7.59
Aroclor-1016 {3}	4.60	4.53	4.67	648138	592623	8.57
Aroclor-1016 {4}	5.10	5.03	5.17	327024	298991	8.57
Aroclor-1016 {5}	5.49	5.42	5.56	532246	490551	7.83
Aroclor-1260	8.27	7.37	9.17	1604075	1426452	11.07
Aroclor-1260 {2}	8.94	8.04	9.84	783359	677738	13.48
Aroclor-1260 {3}	9.41	8.51	10.31	1934226	1641992	15.11
Aroclor-1260 {4}	9.89	8.99	10.79	1053013	899415	14.59
Aroclor-1260 {5}	10.95	10.05	11.85	493856	440599	10.78

Data File: Y3147.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.76	3.68	3.82	710845	826547	16.28
Aroclor-1016 {2}	4.35	4.28	4.42	1420225	1631439	14.87
Aroclor-1016 {3}	5.10	5.03	5.17	3465247	3580265	3.32
Aroclor-1016 {4}	5.31	5.23	5.37	1540808	1553946	0.85
Aroclor-1016 {5}	5.48	5.41	5.55	1187939	1215398	2.31
Aroclor-1260	7.84	6.93	8.73	1440400	1417311	1.60
Aroclor-1260 {2}	8.09	7.19	8.99	2107103	2024619	3.91
Aroclor-1260 {3}	9.68	8.77	10.57	1932676	1848784	4.34
Aroclor-1260 {4}	10.18	9.28	11.08	4455869	4198695	5.77
Aroclor-1260 {5}	10.77	9.86	11.66	3260553	2944867	9.68

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/21/2013 **Instrument ID:** GC-Y

Data File: Y3157.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	354686	348562	1.73
Aroclor-1016 {2}	4.05	3.98	4.12	504392	474587	5.91
Aroclor-1016 {3}	4.60	4.53	4.67	648138	605351	6.60
Aroclor-1016 {4}	5.10	5.03	5.17	327024	288964	11.64
Aroclor-1016 {5}	5.49	5.42	5.56	532246	485796	8.73
Aroclor-1260	8.26	7.37	9.17	1604075	1355498	15.50
Aroclor-1260 {2}	8.94	8.04	9.84	783359	635031	18.93
Aroclor-1260 {3}	9.41	8.51	10.31	1934226	1587194	17.94
Aroclor-1260 {4}	9.89	8.99	10.79	1053013	881042	16.33
Aroclor-1260 {5}	10.95	10.05	11.85	493856	398553	19.30

Data File: Y3157.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.75	3.68	3.82	710845	725956	2.13
Aroclor-1016 {2}	4.34	4.28	4.42	1420225	1417624	0.18
Aroclor-1016 {3}	5.09	5.03	5.17	3465247	3583647	3.42
Aroclor-1016 {4}	5.30	5.23	5.37	1540808	1564328	1.53
Aroclor-1016 {5}	5.47	5.41	5.55	1187939	1216350	2.39
Aroclor-1260	7.83	6.93	8.73	1440400	1333693	7.41
Aroclor-1260 {2}	8.08	7.19	8.99	2107103	1863561	11.56
Aroclor-1260 {3}	9.67	8.77	10.57	1932676	1623544	16.00
Aroclor-1260 {4}	10.17	9.28	11.08	4455869	3788532	14.98
Aroclor-1260 {5}	10.76	9.86	11.66	3260553	2709185	16.91

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

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

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

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

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

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

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

Instrument ID: GC-R

GC Column (2nd): DB-1701P

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

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

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

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

GC Column (2nd): DB-1701P

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

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

AROCLOR INITIAL CALIBRATION SUMMARY

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

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

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

GC Column (2nd): DB-1701P

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

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

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/21/2013 **Instrument ID:** GC-R

Data File: R5532.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.21	3.13	3.27	212464	197772	6.92
Aroclor-1016 {2}	4.04	3.96	4.10	290090	262743	9.43
Aroclor-1016 {3}	4.59	4.52	4.66	368655	342014	7.23
Aroclor-1016 {4}	5.10	5.02	5.16	184173	177307	3.73
Aroclor-1016 {5}	5.49	5.42	5.56	289810	265899	8.25
Aroclor-1260	8.30	7.39	9.19	752046	730718	2.84
Aroclor-1260 {2}	8.97	8.07	9.87	347008	336002	3.17
Aroclor-1260 {3}	9.45	8.55	10.35	893679	873509	2.26
Aroclor-1260 {4}	9.94	9.04	10.84	437017	429078	1.82
Aroclor-1260 {5}	11.00	10.10	11.90	207779	205034	1.32

Data File: R5532.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.37	3.30	3.44	422884	405573	4.09
Aroclor-1016 {2}	3.93	3.86	4.00	894550	794357	11.20
Aroclor-1016 {3}	4.65	4.58	4.72	1900190	1750351	7.89
Aroclor-1016 {4}	4.85	4.78	4.92	795552	741216	6.83
Aroclor-1016 {5}	5.02	4.94	5.08	611720	564596	7.70
Aroclor-1260	7.34	6.44	8.24	757784	721439	4.80
Aroclor-1260 {2}	7.59	6.69	8.49	1060572	961793	9.31
Aroclor-1260 {3}	9.17	8.27	10.07	837987	791976	5.49
Aroclor-1260 {4}	9.68	8.78	10.58	1846199	1782731	3.44
Aroclor-1260 {5}	10.26	9.37	11.17	1329122	1272190	4.28

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 11/21/2013 **Instrument ID:** GC-R

Data File: R5542.D **GC Column (1st):** DB-5

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.20	3.13	3.27	212464	201404	5.21
Aroclor-1016 {2}	4.03	3.96	4.10	290090	268453	7.46
Aroclor-1016 {3}	4.59	4.52	4.66	368655	347614	5.71
Aroclor-1016 {4}	5.10	5.02	5.16	184173	180857	1.80
Aroclor-1016 {5}	5.49	5.42	5.56	289810	269059	7.16
Aroclor-1260	8.30	7.39	9.19	752046	711499	5.39
Aroclor-1260 {2}	8.97	8.07	9.87	347008	330014	4.90
Aroclor-1260 {3}	9.45	8.55	10.35	893679	843231	5.65
Aroclor-1260 {4}	9.94	9.04	10.84	437017	411302	5.88
Aroclor-1260 {5}	11.00	10.10	11.90	207779	188474	9.29

Data File: R5542.C **GC Column (2nd):** DB-1701P

Compound	RT	RT WI NDOW FROM	TO	Avg CF	CC CF	%D
Aroclor-1016	3.37	3.30	3.44	422884	415809	1.67
Aroclor-1016 {2}	3.93	3.86	4.00	894550	815773	8.81
Aroclor-1016 {3}	4.65	4.58	4.72	1900190	1773799	6.65
Aroclor-1016 {4}	4.85	4.78	4.92	795552	759721	4.50
Aroclor-1016 {5}	5.01	4.94	5.08	611720	577537	5.59
Aroclor-1260	7.34	6.44	8.24	757784	725106	4.31
Aroclor-1260 {2}	7.59	6.69	8.49	1060572	969892	8.55
Aroclor-1260 {3}	9.17	8.27	10.07	837987	787335	6.04
Aroclor-1260 {4}	9.68	8.78	10.58	1846199	1777909	3.70
Aroclor-1260 {5}	10.26	9.37	11.17	1329122	1267572	4.63

PCB RETENTION TIME SHIFT SUMMARY

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

Surrogate RT from initial calibration :

TCMX 1 2.76 **DCB 1** 12.03 **TCMX 2** 2.88 **DCB 2** 12.47

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
PCB	BLKS131115-13	11/18/2013	11:06	2.76		12.03		2.88		12.47	
PCB	LCSS131115-13	11/18/2013	11:23	2.76		12.03		2.88		12.47	
NN-40_(1	E13-11406-006	11/18/2013	11:40	2.76		12.03		2.88		12.47	
PCB	11406-006MS	11/18/2013	11:58	2.76		12.03		2.88		12.47	
PCB	11406-006MSD	11/18/2013	12:15	2.76		12.03		2.88		12.47	
KK-41_(0	E13-11347-009	11/18/2013	12:33	2.76		12.03		2.88		12.47	
KK-41_(1	E13-11347-010	11/18/2013	12:50	2.76		12.03		2.88		12.47	
LL-40_(0	E13-11347-011	11/18/2013	13:07	2.76		12.03		2.88		12.46	
LL-40_(1	E13-11347-012	11/18/2013	13:25	2.76		12.03		2.88		12.46	
LL-41_(0	E13-11347-013	11/18/2013	13:42	2.76		12.03		2.88		12.46	
LL-41_(1	E13-11347-014	11/18/2013	14:00	2.76		12.03		2.88		12.46	
MM-39_(1	E13-11347-016	11/18/2013	15:13	2.76		12.03		2.88		12.46	
NN-38_(0	E13-11347-017	11/18/2013	15:30	2.76		12.03		2.88		12.46	
NN-38_(1	E13-11347-018	11/18/2013	15:47	2.76		12.03		2.88		12.46	
OO-37_(0	E13-11347-019	11/18/2013	16:05	2.76		12.03		2.88		12.46	
OO-37_(1	E13-11347-020	11/18/2013	16:22	2.76		12.03		2.88		12.46	
KK-41_(1	E13-11347-010DL	11/18/2013	16:39	2.76		12.03		2.88		12.46	
MM-39_(0	E13-11347-015	11/18/2013	16:57	2.76		12.03		2.88		12.46	
MM-39_(1	E13-11347-016DL	11/18/2013	17:14	2.76		12.03		2.88		12.46	
SOIL_WAS	E13-11366-004	11/18/2013	17:32	2.76		12.03		2.88		12.46	
CONCRETE	E13-11366-005	11/18/2013	17:49	2.76		12.03		2.88		12.46	
OO-38_(0	E13-11406-001	11/18/2013	18:06	2.76		12.03		2.88		12.47	
OO-38_(1	E13-11406-002	11/18/2013	18:24	2.76		12.03		2.88		12.46	
NN-39_(0	E13-11406-003	11/18/2013	18:41	2.76		12.03		2.88		12.47	
NN-39_(1	E13-11406-004	11/18/2013	18:58	2.76		12.03		2.88		12.46	

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	2.76	DCB 1	12.03	TCMX 2	2.88	DCB 2	12.47

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
NN-40_(0	E13-11406-005	11/18/2013	19:16	2.76		12.03		2.88		12.46	

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** 2.88 **DCB 2** 12.45

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
PCB	BLKS131120-06	11/20/2013	21:24	2.77		12.04		2.88		12.45	
PCB	LCSS131120-06	11/20/2013	21:41	2.77		12.04		2.88		12.45	
MM-40_(0	E13-11406-007	11/20/2013	21:58	2.77		12.04		2.88		12.45	
MM-40_(1	E13-11406-008	11/20/2013	22:16	2.77		12.04		2.88		12.45	
PP-37_(0	E13-11406-009	11/20/2013	22:33	2.77		12.04		2.88		12.45	
PP-37_(1	E13-11406-010	11/20/2013	22:50	2.77		12.04		2.88		12.45	
PP-36_(0	E13-11406-011	11/20/2013	23:07	2.77		12.04		2.88		12.45	
PP-36_(1	E13-11406-012	11/20/2013	23:24	2.77		12.04		2.88		12.45	
JJ-39_(2	E13-11406-013	11/20/2013	23:42	2.77		12.04		2.88		12.45	
JJ-40_(0	E13-11406-014	11/20/2013	23:59	2.77		12.04		2.88		12.45	
JJ-40_(1	E13-11406-015	11/21/2013	00:16	2.77		12.04		2.88		12.45	
UP-B1	E13-11434-001	11/21/2013	01:43	2.77		12.04		2.88		12.45	
UP-B2B	E13-11434-003	11/21/2013	02:00	2.77		12.04		2.88		12.45	
UP-B3B	E13-11434-005	11/21/2013	02:17	2.77		12.04		2.88		12.45	
UP-B4B	E13-11434-007	11/21/2013	02:34	2.77		12.04		2.88		12.45	
PCB	11434-020MS	11/21/2013	04:52	2.77		12.04		2.88		12.45	
PCB	11434-020MSD	11/21/2013	05:10	2.77		12.04		2.88		12.45	
UP-B5B	E13-11434-009	11/21/2013	11:03	2.77		12.04		2.89		12.45	
UP-B6B	E13-11434-011	11/21/2013	11:20	2.77		12.04		2.89		12.46	
UP-B7B	E13-11434-013	11/21/2013	13:12	2.76		12.04		2.88		12.45	
UP-B8B	E13-11434-015	11/21/2013	13:29	2.76		12.04		2.88		12.45	
UP-B9B	E13-11434-017	11/21/2013	13:46	2.76		12.04		2.88		12.45	
UP-B10B	E13-11434-019	11/21/2013	14:04	2.76		12.04		2.88		12.45	
UP-WB1S	E13-11434-020	11/21/2013	14:21	2.76		12.04		2.88		12.45	

Surrogate QC Limits

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

DCB = Decachlorobiphenyl (± 0.10 Minutes)

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

PCB RETENTION TIME SHIFT SUMMARY

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

Surrogate RT from initial calibration :

TCMX 1 2.74 **DCB 1** 12.08 **TCMX 2** 2.57 **DCB 2** 11.94

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	#	DCB 1 RT	#	TCMX 2 RT	#	DCB 2 RT	#
PCB	BLKA131120-09	11/21/2013	14:07	2.74		12.08		2.57		11.94	
EFF_COMP	E13-11310-001	11/21/2013	14:24	2.74		12.08		2.56		11.93	
PH-LT-1	E13-11473-001	11/21/2013	14:41	2.74		12.08		2.56		11.93	
FB-34	E13-11406-016	11/21/2013	14:59	2.74		12.08		2.56		11.93	
UP-P4	E13-11434-022	11/21/2013	15:16	2.74		12.08		2.56		11.93	
UP-P5	E13-11434-023	11/21/2013	15:34	2.74		12.08		2.56		11.93	
PCB	11310-001MS	11/21/2013	15:53	2.74		12.09		2.56		11.94	
PCB	11310-001MSD	11/21/2013	16:10	2.74		12.09		2.56		11.93	
PCB	LCSA131120-09	11/21/2013	16:28	2.74		12.09		2.56		11.93	

Surrogate QC Limits

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

DCB = Decachlorobiphenyl (± 0.10 Minutes)

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

PCB SAMPLE DATA

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3072.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 18:06
Operator : NG
Sample : OO-38_(0,E13-11406-001,S,5.22g,85.5,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 19 09:44:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.76	2.88	4658.7E6	10238.4E6	256.679	244.607
Spiked Amount 200.000			Recovery	=	128.34%	122.30%
2) S DCB	12.03	12.47	1430.4E6	3457.5E6	196.131	220.152
Spiked Amount 200.000			Recovery	=	98.07%	110.08%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	5.10	49873879	99496931	48.663	39.923
24) L6 Aroclor-1248 {2}	4.97	5.68	33310705	196.1E6	54.571	52.202
25) L6 Aroclor-1248 {3}	0.00	6.08	0	151.2E6	N.D. d	56.045 #
26) L6 Aroclor-1248 {4}	5.99	6.23	64729199	93169201	54.242	39.524 #
27) L6 Aroclor-1248 {5}	6.25	6.57	47368029	63063214	50.198	46.641
Sum Aroclor-1248			195.3E6	603.1E6	207.675	234.333
Average Aroclor-1248					51.919	46.867
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

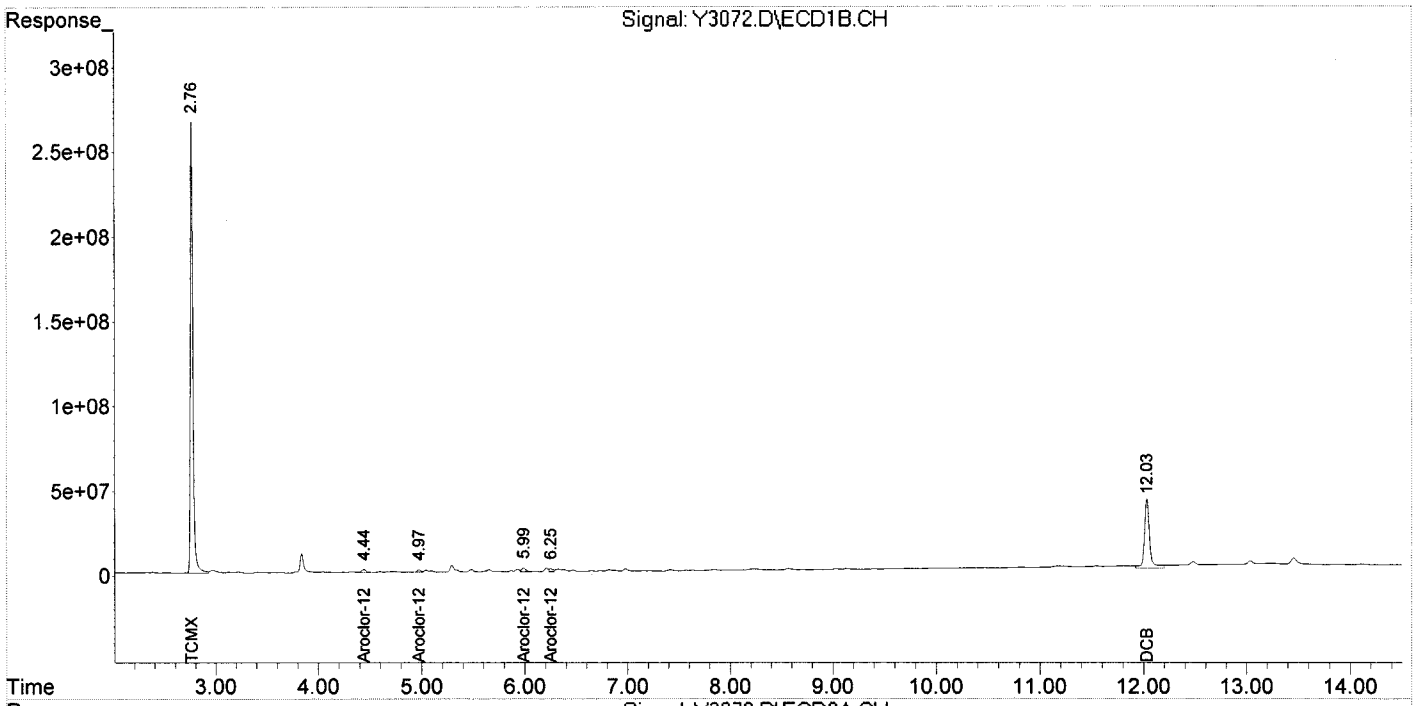
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

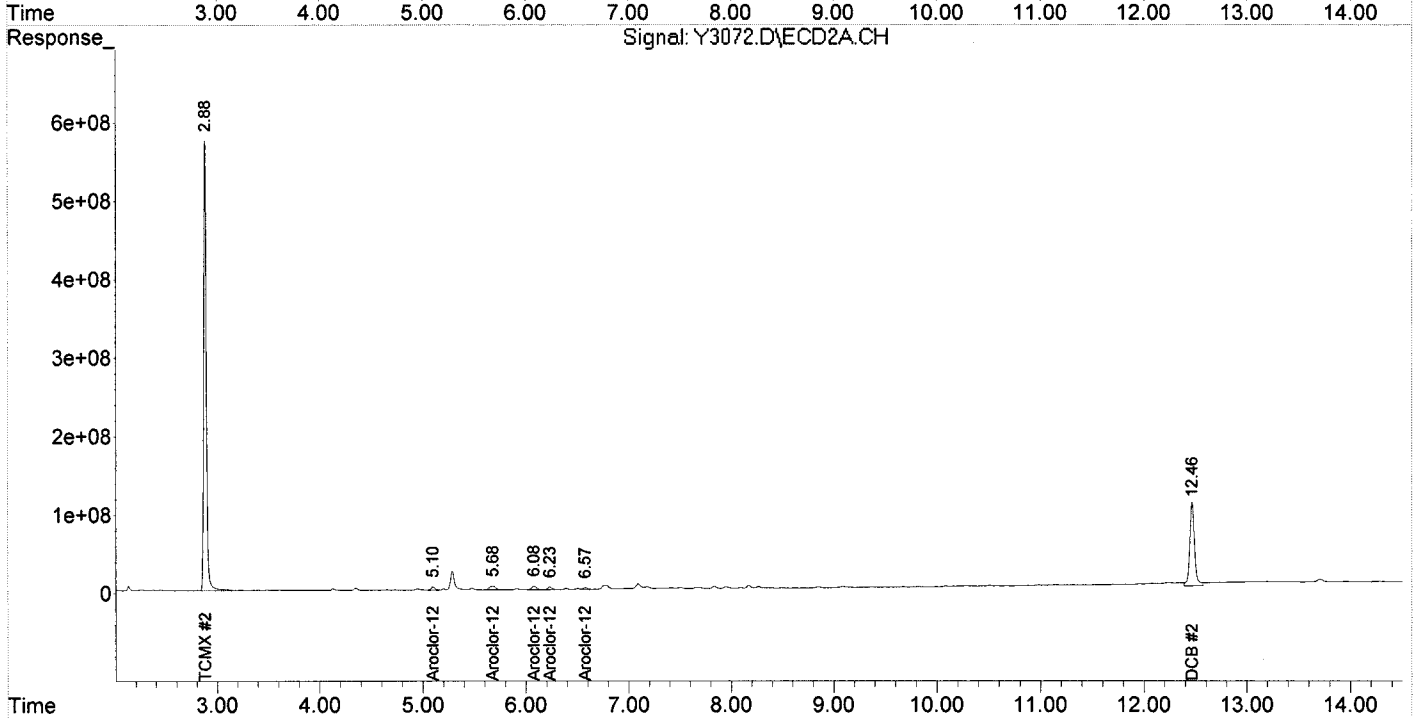
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3072.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 18:06
Operator : NG
Sample : OO-38_(0,E13-11406-001,S,5.22g,85.5,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 19 09:44:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3073.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 18:24
Operator : NG
Sample : OO-38_(1,E13-11406-002,S,5.02g,73.2,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 19 09:47:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.76	2.88	4121.0E6	9523.3E6	227.054	227.521
Spiked Amount 200.000			Recovery	=	113.53%	113.76%
2) S DCB	12.03	12.46	1143.9E6	3079.1E6	156.841	196.059 #
Spiked Amount 200.000			Recovery	=	78.42%	98.03%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	5.10	30833496	61204266	30.085	24.558
24) L6 Aroclor-1248 {2}	4.97	5.68	19230097	122.9E6	31.504	32.702
25) L6 Aroclor-1248 {3}	0.00	6.08	0	88880310	N.D. d	32.946 #
26) L6 Aroclor-1248 {4}	5.99	6.23	43364305	55427917	36.339	23.513 #
27) L6 Aroclor-1248 {5}	0.00	6.57	0	74718087	N.D. d	55.261 #
Sum Aroclor-1248			93427898	403.1E6	97.927	168.979
Average Aroclor-1248					32.642	33.796
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

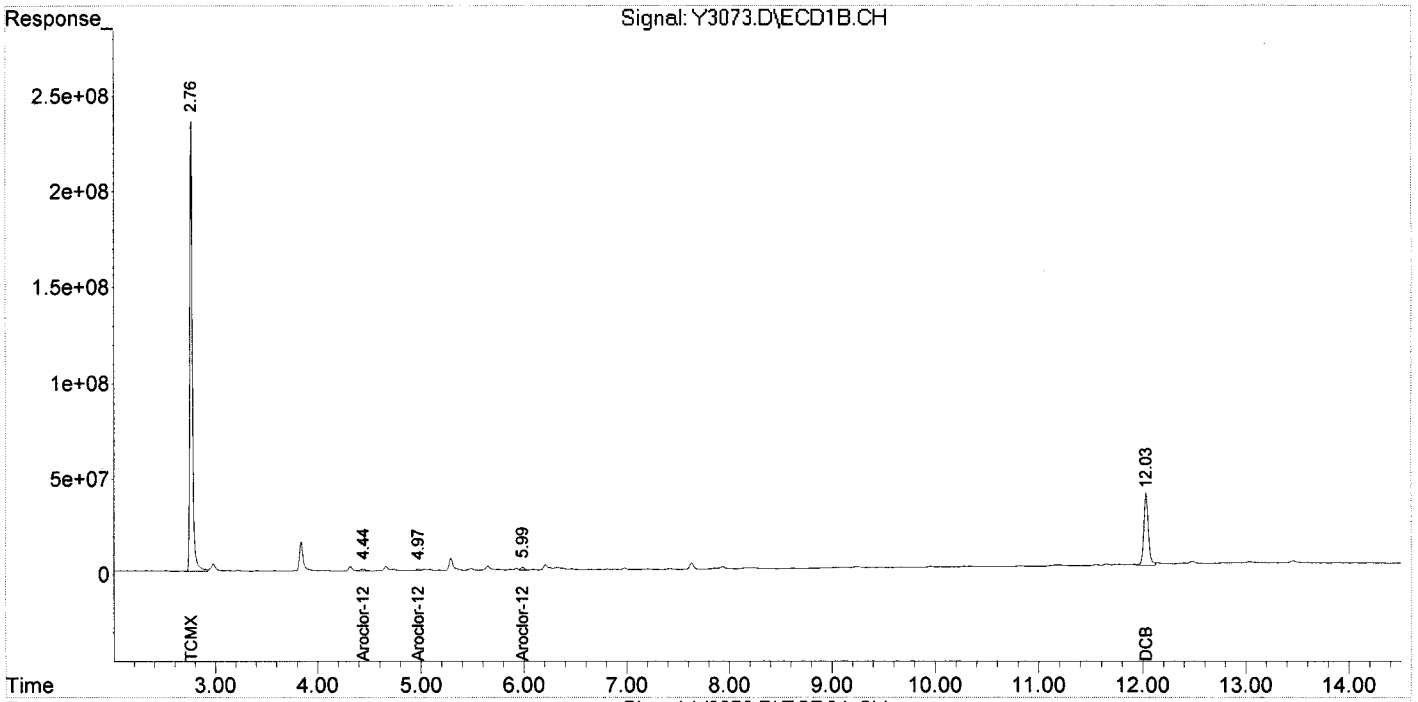
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

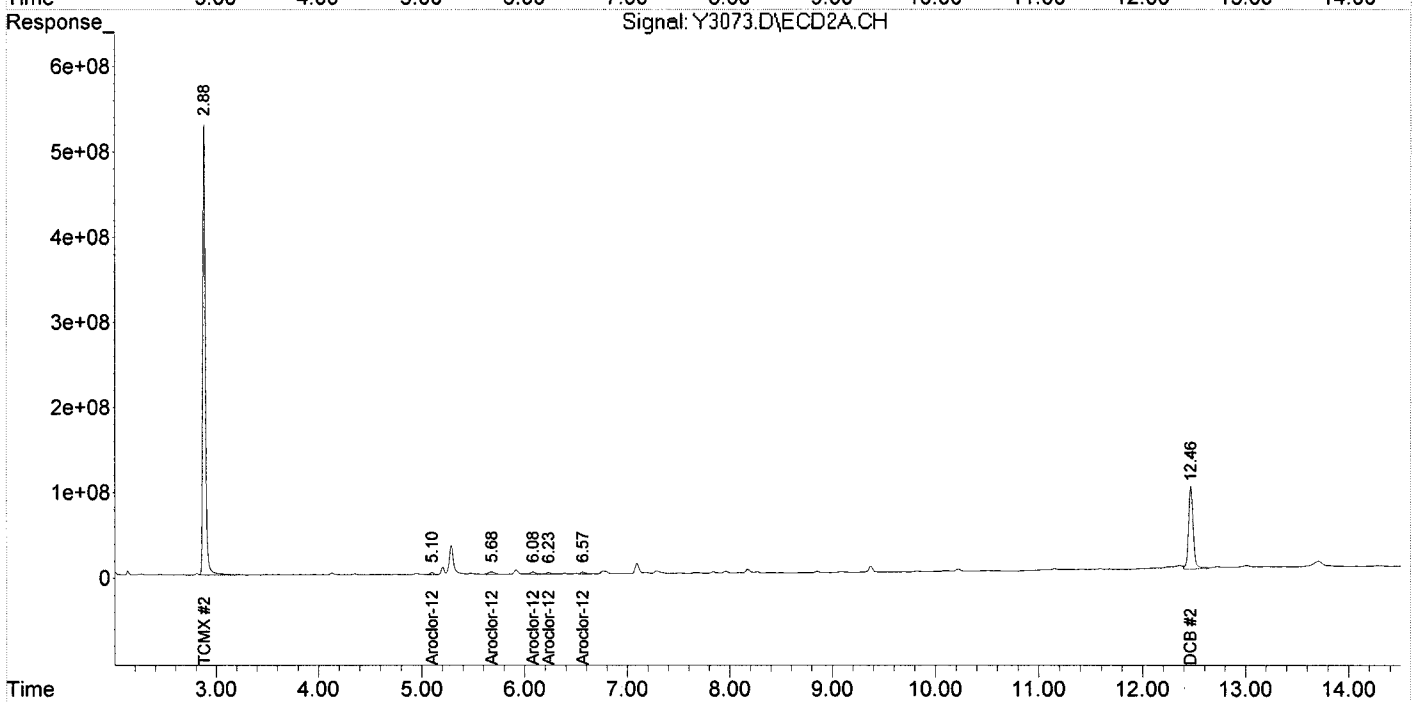
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3073.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 18:24
Operator : NG
Sample : OO-38_(1,E13-11406-002,S,5.02g,73.2,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 19 09:47:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3074.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 18:41
Operator : NG
Sample : NN-39_(0,E13-11406-003,S,5.29g,66.4,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 19 09:54:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.76	2.88	4265.6E6	9084.2E6	235.020	217.031
Spiked Amount 200.000			Recovery	=	117.51%	108.52%
2) S DCB	12.03	12.47	1136.9E6	3075.7E6	155.889	195.844 #
Spiked Amount 200.000			Recovery	=	77.94%	97.92%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	5.10	109.7E6	248.0E6	107.042	99.502
24) L6 Aroclor-1248 {2}	4.97	5.68	158.1E6	997.8E6	259.057	265.555
25) L6 Aroclor-1248 {3}	5.29	6.08	189.1E6	713.3E6	241.323	264.412
26) L6 Aroclor-1248 {4}	5.99	6.23	374.2E6	341.9E6	313.539	145.056 #
27) L6 Aroclor-1248 {5}	6.25	6.58	195.6E6	216.5E6	207.299	160.126
Sum Aroclor-1248			1026.7E6	2517.5E6	1128.260	934.651
Average Aroclor-1248					225.652	186.930
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

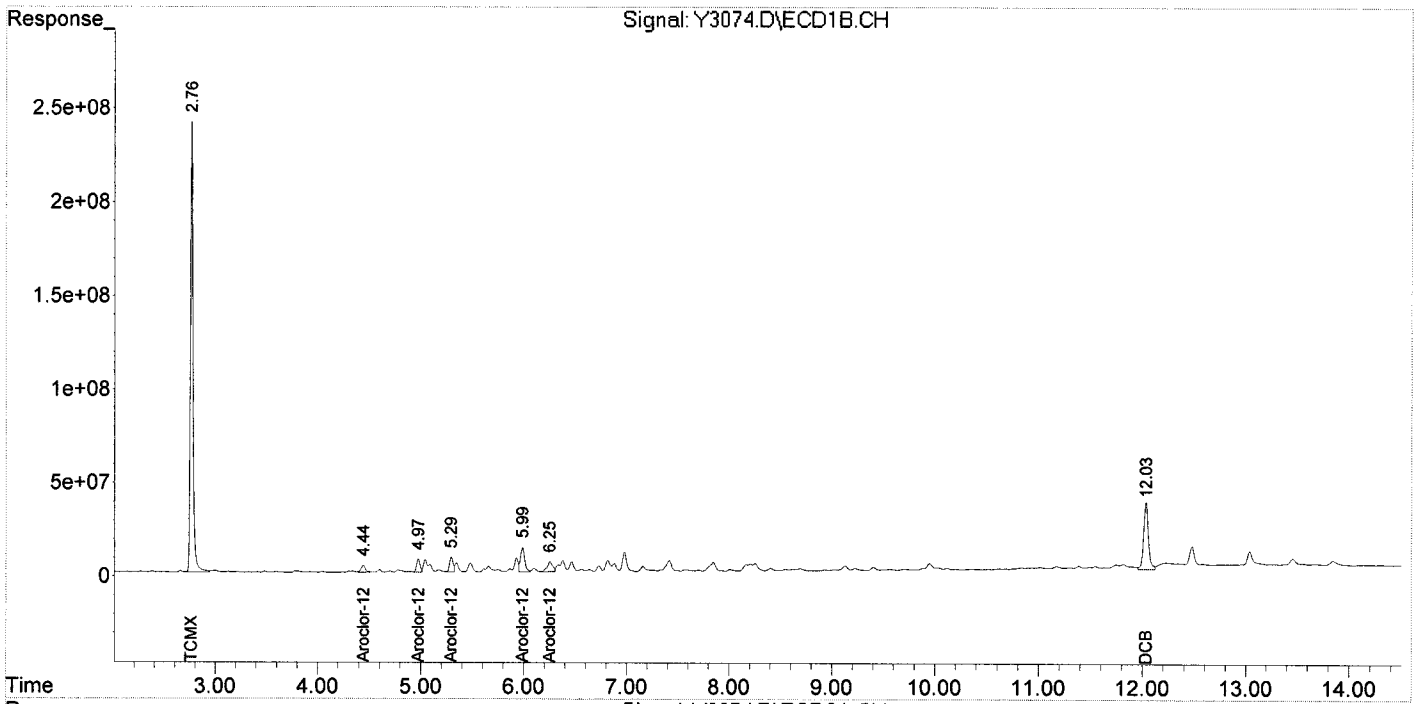
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

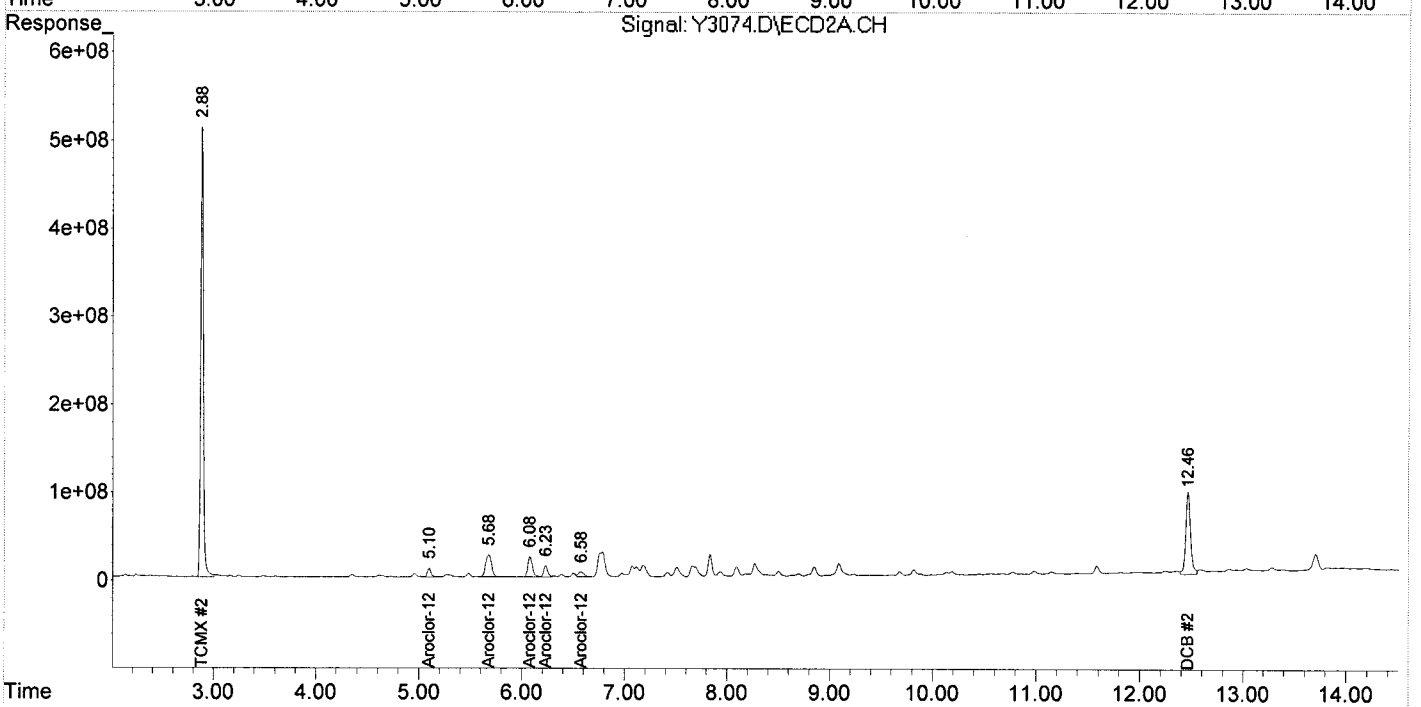
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3074.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 18:41
Operator : NG
Sample : NN-39_(0,E13-11406-003,S,5.29g,66.4,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 19 09:54:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3075.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 18:58
Operator : NG
Sample : NN-39_(1,E13-11406-004,S,5.28g,86.4,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 20 16:05:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.76	2.88	4764.9E6	10324.1E6	262.528	246.653
Spiked Amount 200.000			Recovery	=	131.26%	123.33%
2) S DCB	12.03	12.46	1266.7E6	3473.3E6	173.688	221.161 #
Spiked Amount 200.000			Recovery	=	86.84%	110.58%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	5.10	11573721	20770770	11.293m	8.334 #
24) L6 Aroclor-1248 {2}	4.97	5.67	13538031	74043187	22.179m	19.706
25) L6 Aroclor-1248 {3}	5.29	6.08	27363392	78282966	34.924m	29.018
26) L6 Aroclor-1248 {4}	5.99	6.23	23490894	38019742	19.685	16.128
27) L6 Aroclor-1248 {5}	0.00	6.58	0	17807374	N.D. d	13.170 #
Sum Aroclor-1248			75966038	228.9E6	88.080	86.357
Average Aroclor-1248					22.020	17.271
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

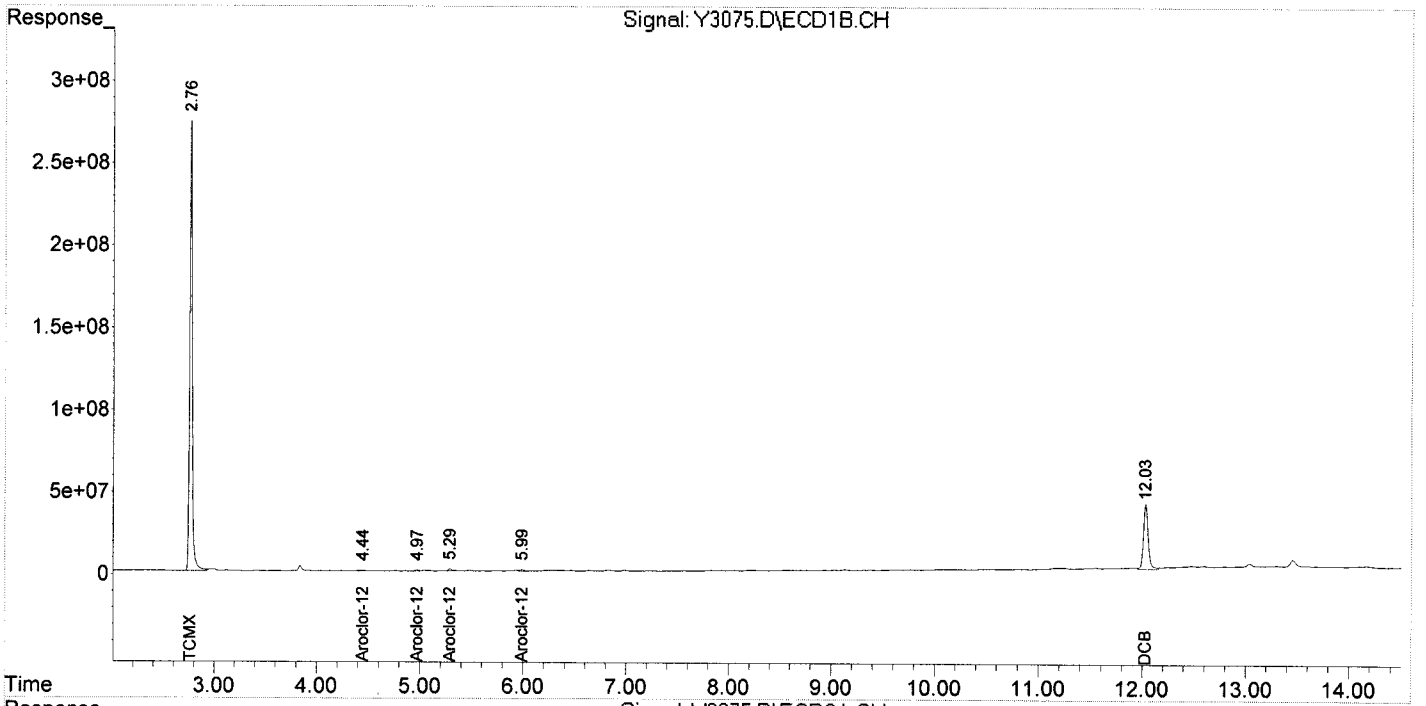
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

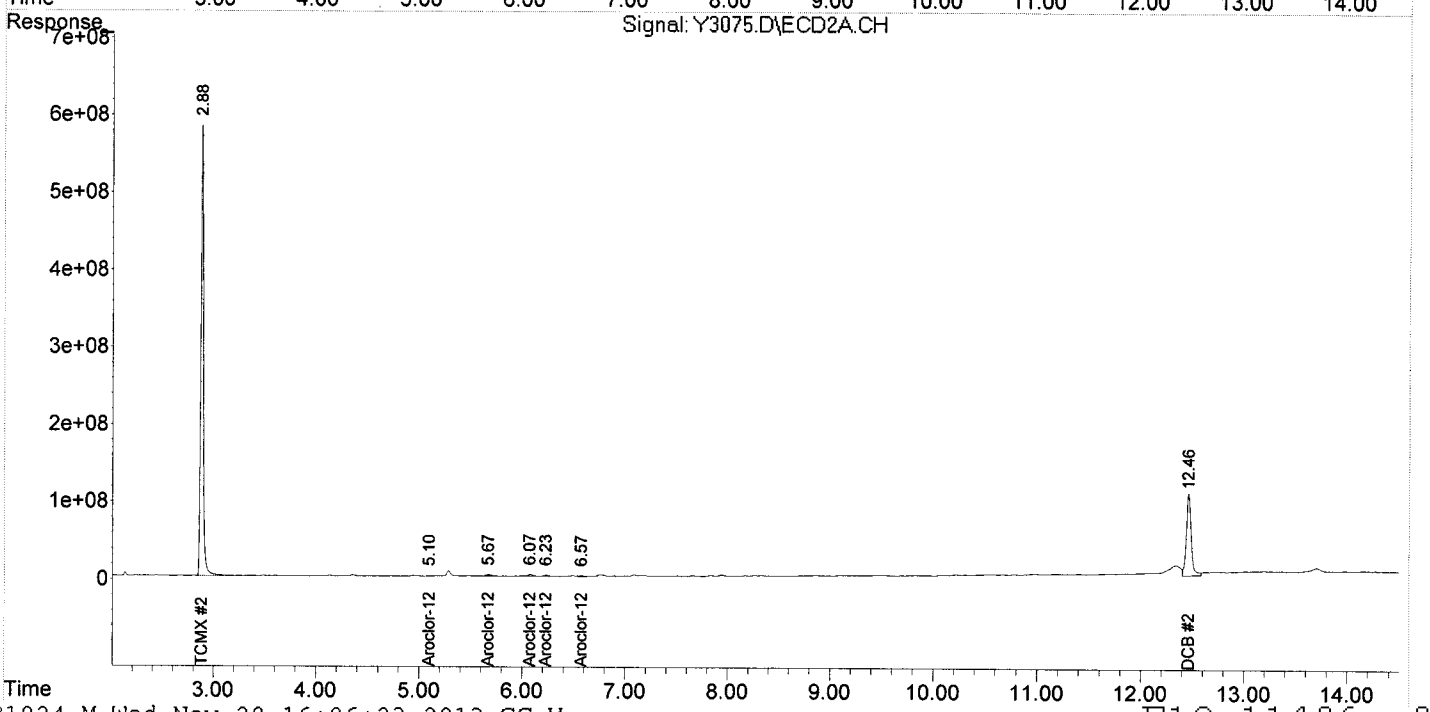
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3075.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 18:58
Operator : NG
Sample : NN-39_(1,E13-11406-004,S,5.28g,86.4,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 20 16:05:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3076.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 19:16
Operator : NG
Sample : NN-40_(0,E13-11406-005,S,5.24g,59,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 19 10:00:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.76	2.88	4452.6E6	9651.9E6	245.322	230.595
Spiked Amount 200.000			Recovery	=	122.66%	115.30%
2) S DCB	12.03	12.46	1187.1E6	3146.5E6	162.767	200.353
Spiked Amount 200.000			Recovery	=	81.38%	100.18%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	5.10	158.0E6	344.9E6	154.178	138.393
24) L6 Aroclor-1248 {2}	4.97	5.68	127.0E6	781.2E6	208.109	207.921
25) L6 Aroclor-1248 {3}	5.29	6.08	180.9E6	617.2E6	230.853	228.788
26) L6 Aroclor-1248 {4}	5.99	6.23	284.0E6	403.5E6	238.021	171.160 #
27) L6 Aroclor-1248 {5}	6.26	6.58	187.1E6	230.8E6	198.263	170.668
Sum Aroclor-1248			937.0E6	2377.6E6	1029.424	916.930
Average Aroclor-1248					205.885	183.386
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

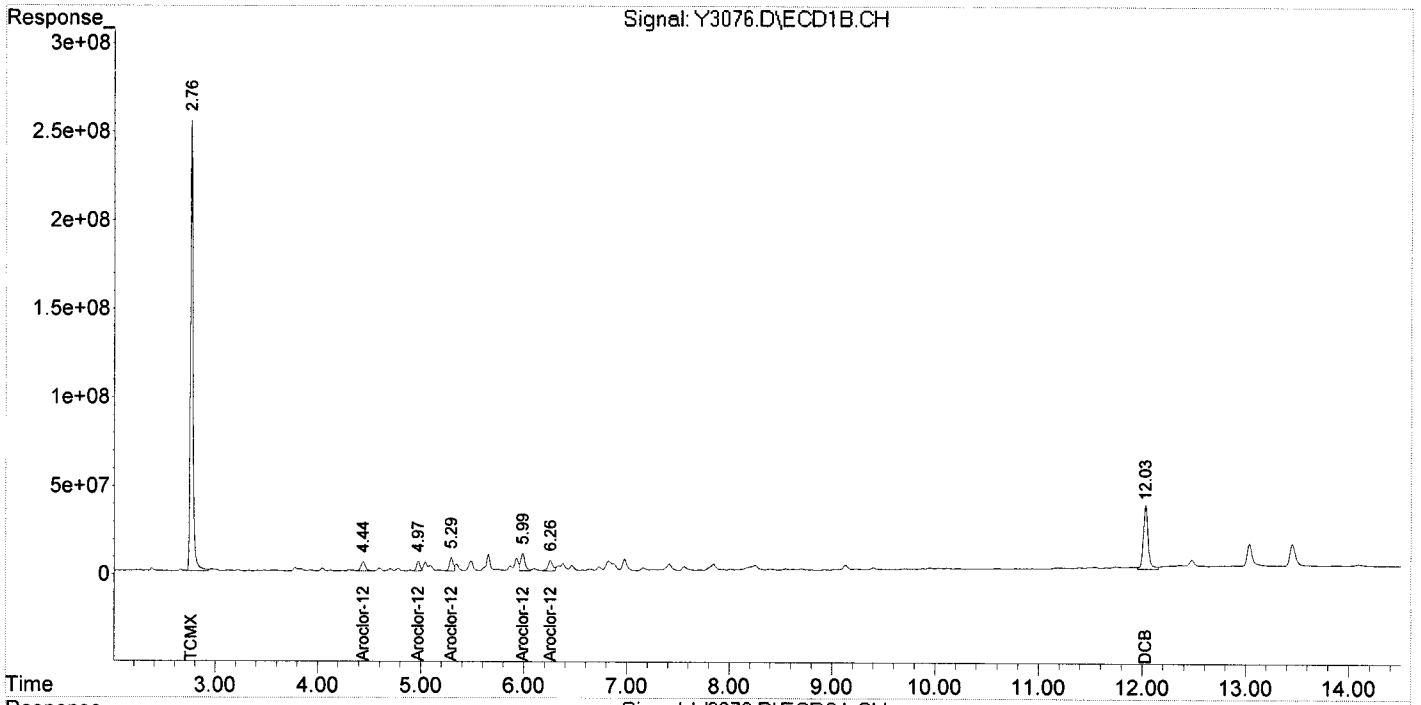
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

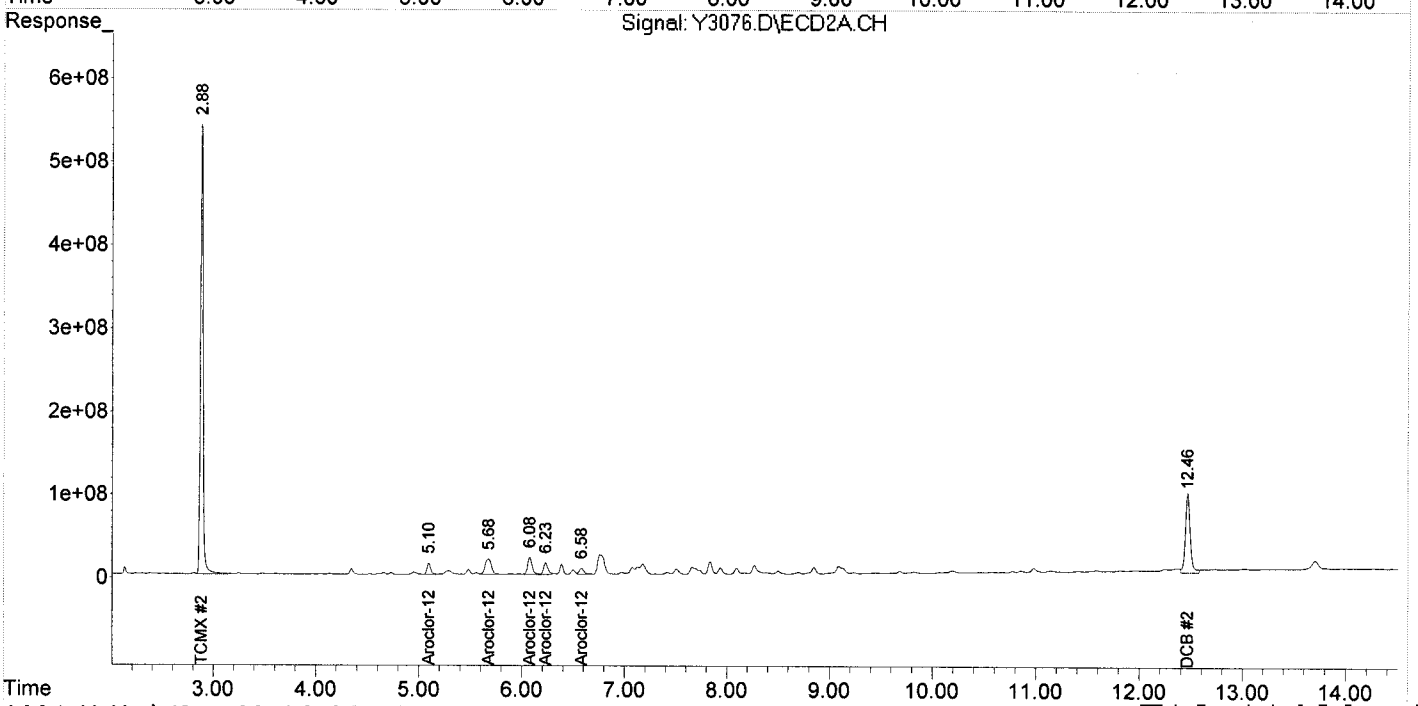
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3076.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 19:16
Operator : NG
Sample : NN-40_(0,E13-11406-005,S,5.24g,59,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 19 10:00:04 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3051.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 11:40
Operator : NG
Sample : NN-40_(1,E13-11406-006,S,5.18g,86.8,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 18 14:12:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.76	2.88	5009.0E6	11011.4E6	275.978	263.073
Spiked Amount 200.000			Recovery	=	137.99%	131.54%
2) S DCB	12.03	12.47	1666.1E6	4207.5E6	228.452	267.906
Spiked Amount 200.000			Recovery	=	114.23%	133.95%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	5.10	24542866	35218137	23.947	14.131 #
24) L6 Aroclor-1248 {2}	4.97	5.68	14731267	71091722	24.133	18.921
25) L6 Aroclor-1248 {3}	5.29	6.08	23001839	71559809	29.357	26.525
26) L6 Aroclor-1248 {4}	5.99	6.23	26049073	48797750	21.829	20.701
27) L6 Aroclor-1248 {5}	6.25	6.58	22333977	22373948	23.669	16.547 #
Sum Aroclor-1248			110.7E6	249.0E6	122.935	96.825
Average Aroclor-1248					24.587	19.365
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

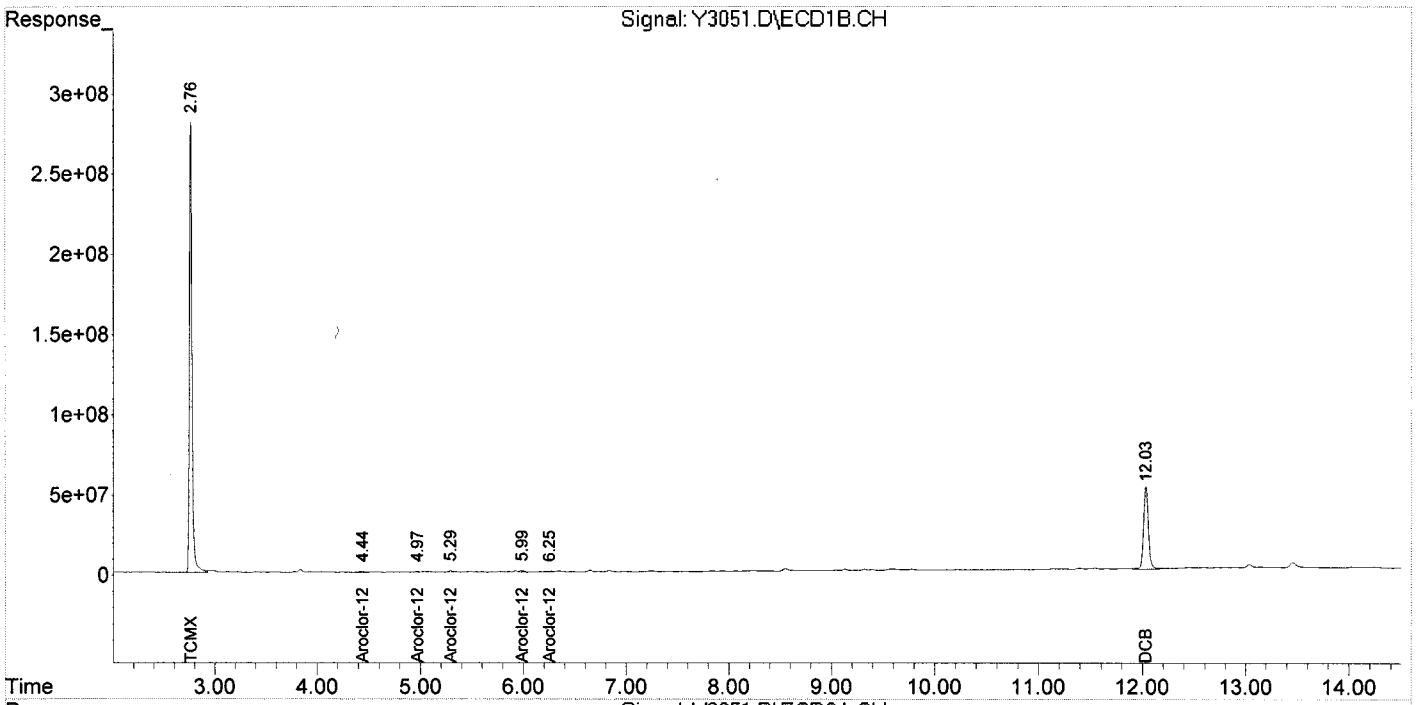
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

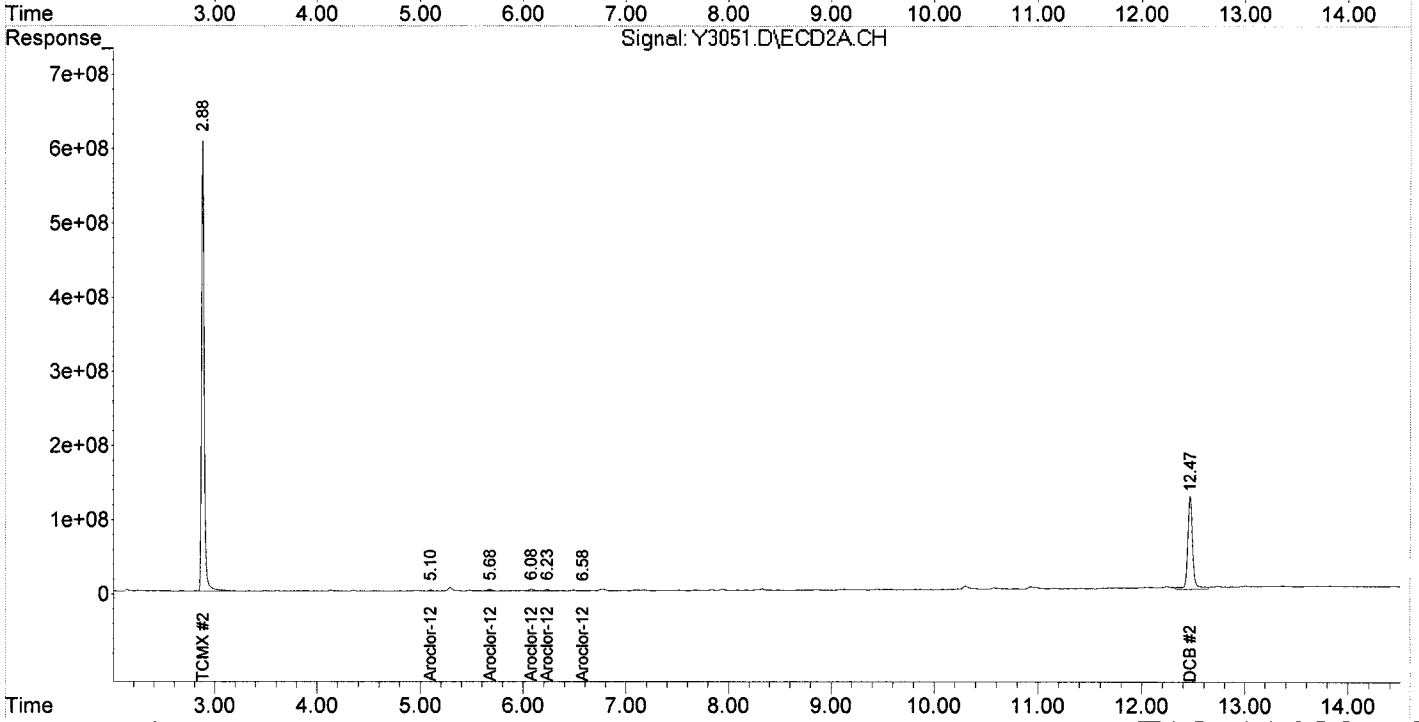
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3051.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 11:40
Operator : NG
Sample : NN-40_(1,E13-11406-006,S,5.18g,86.8,20
Misc : 131115-13,11/15/13,11/14/13,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 18 14:12:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3123.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 21:58
Operator : NG
Sample : MM-40_(0,E13-11406-007,S,5.46g,76.3,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:50:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	5042.7E6	10296.8E6	298.517	298.817m
Spiked Amount 200.000			Recovery	=	149.26%	149.41%
2) S DCB	12.04	12.45	1498.4E6	4244.3E6	219.481	247.988
Spiked Amount 200.000			Recovery	=	109.74%	123.99%
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	5.09	121.4E6	313.4E6	116.474	127.291
24) L6 Aroclor-1248 {2}	4.98	5.67	477.2E6	2858.7E6	777.058	778.992
25) L6 Aroclor-1248 {3}	5.30	6.07	556.2E6	2038.5E6	701.414	779.622m
26) L6 Aroclor-1248 {4}	6.00	6.22	860.7E6	879.9E6	687.576	387.595m#
27) L6 Aroclor-1248 {5}	6.26	6.58	460.9E6	320.0E6	475.648	238.200 #
Sum Aroclor-1248			2476.4E6	6410.5E6	2758.169	2311.699
Average Aroclor-1248					551.634	462.340
28) L7 Aroclor-1254	6.39	7.11	435.6E6	680.0E6	349.005	211.927 #
29) L7 Aroclor-1254 {2}	6.82	7.65	647.9E6	1767.5E6	788.305	683.202
30) L7 Aroclor-1254 {3}	6.99	8.26	698.7E6	1035.5E6	464.218	397.218
31) L7 Aroclor-1254 {4}	7.42	8.49	545.3E6	462.9E6	331.461	305.588
32) L7 Aroclor-1254 {5}	8.26	9.08	398.3E6	1751.2E6	264.508	462.253 #
Sum Aroclor-1254			2725.9E6	5697.3E6	2197.498	2060.188
Average Aroclor-1254					439.500	412.038
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

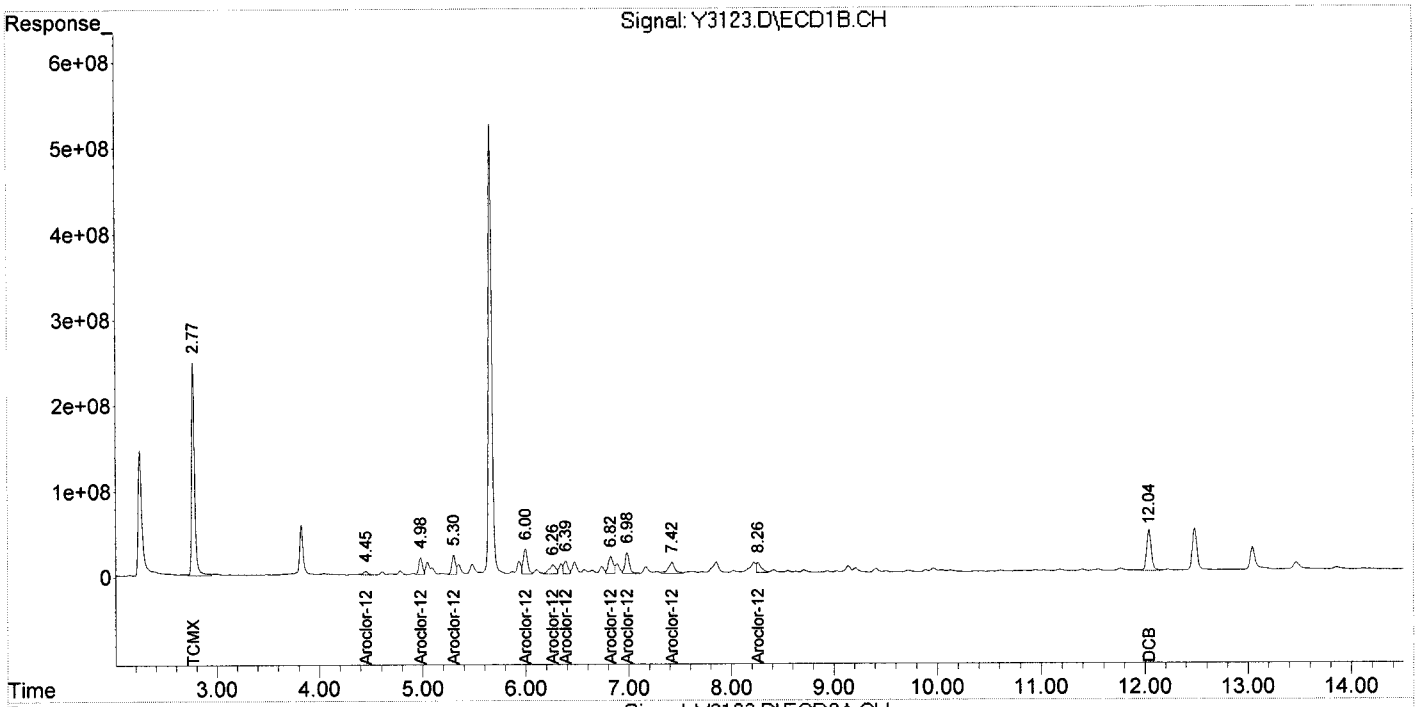
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

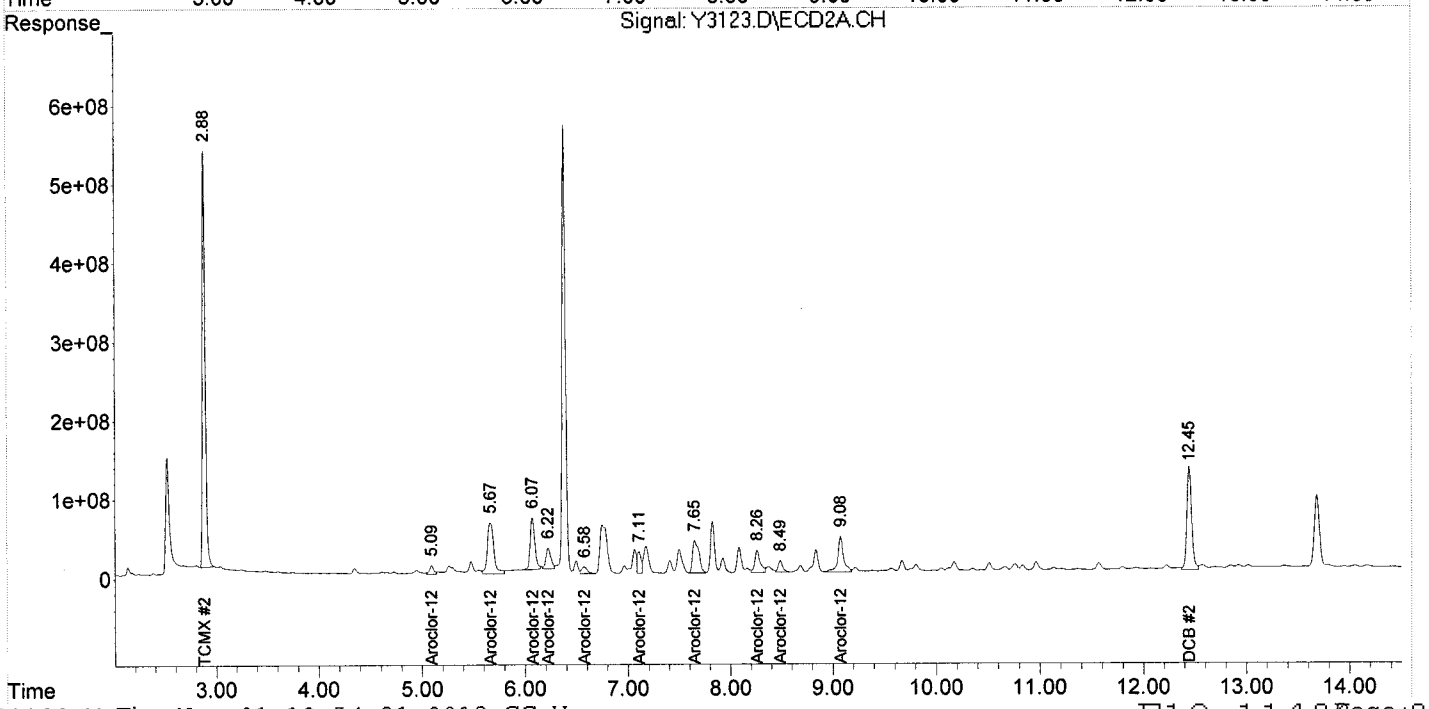
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3123.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 21:58
Operator : NG
Sample : MM-40_(0,E13-11406-007,S,5.46g,76.3,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:50:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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\11-20-13\
Data File : Y3124.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 22:16
Operator : NG
Sample : MM-40_(1,E13-11406-008,S,5.81g,87.4,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:26:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	5317.0E6	11531.8E6	314.755	334.658m
Spiked Amount 200.000			Recovery	=	157.38%	167.33%
2) S DCB	12.04	12.45	1690.0E6	4490.9E6	247.554	262.395
Spiked Amount 200.000			Recovery	=	123.78%	131.20%
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	5.09	14918678	17642921	14.317	7.166 #
24) L6 Aroclor-1248 {2}	4.98	5.67	18875085	102.2E6	30.739	27.857
25) L6 Aroclor-1248 {3}	0.00	6.07	0	85791397	N.D. d	32.810 #
26) L6 Aroclor-1248 {4}	6.00	6.22	35027456	40600237	27.982	17.885 #
27) L6 Aroclor-1248 {5}	0.00	6.56	0	32421566	N.D. d	24.136 #
Sum Aroclor-1248			68821220	278.7E6	73.037	109.853
Average Aroclor-1248					24.346	21.971
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

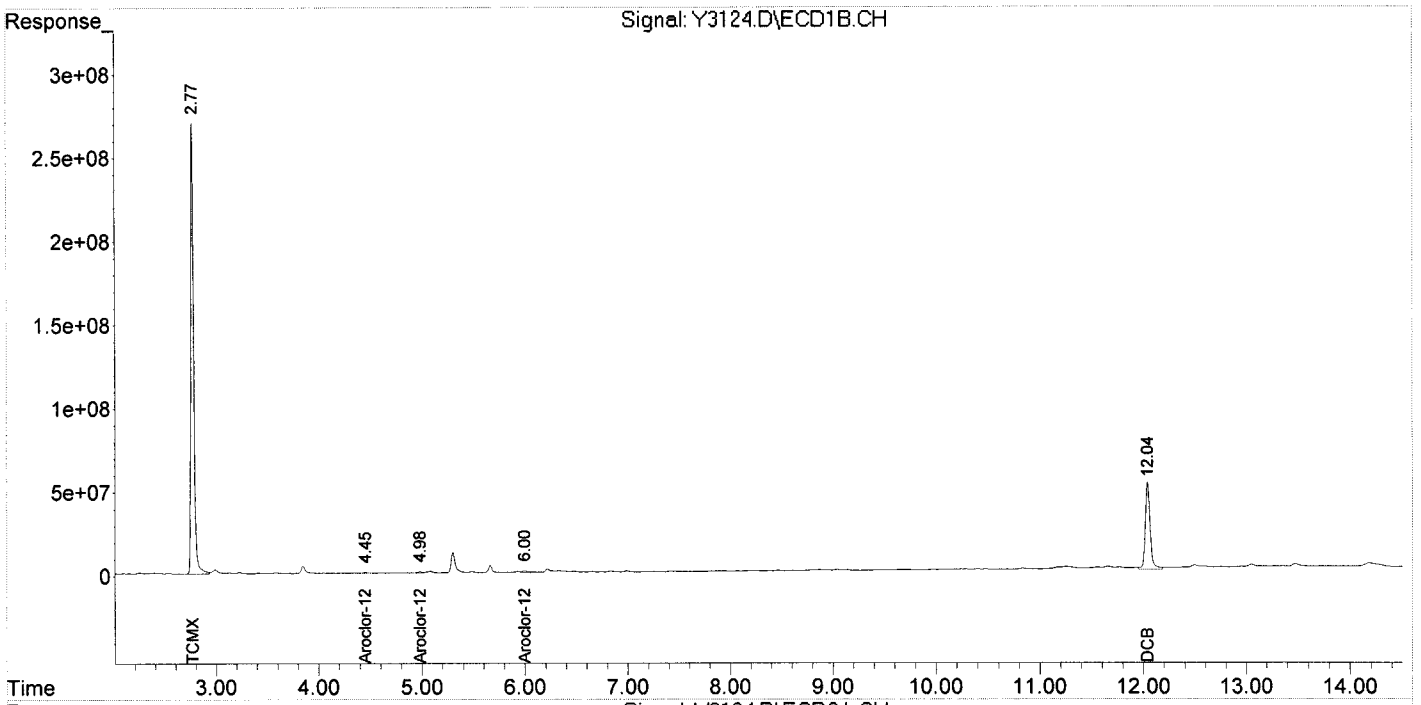
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

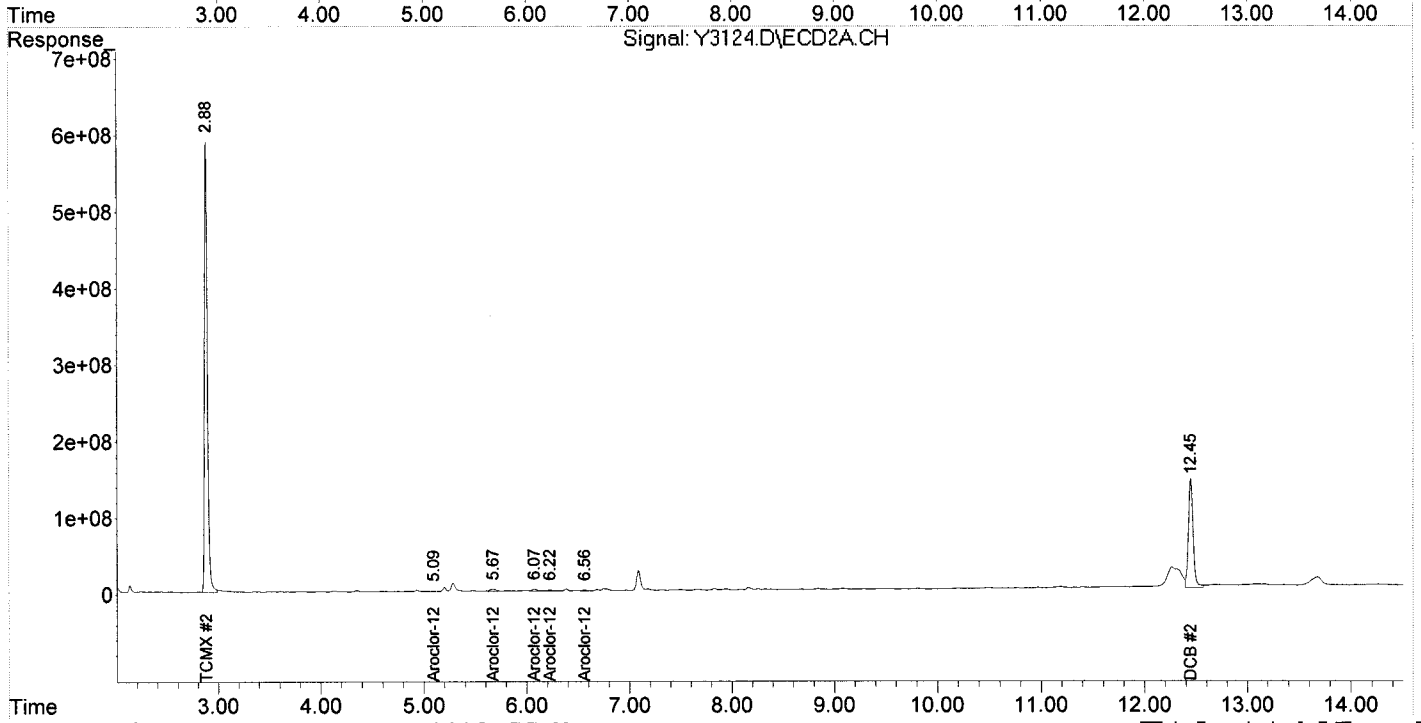
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3124.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 22:16
Operator : NG
Sample : MM-40_(1,E13-11406-008,S,5.81g,87.4,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:26:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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\11-20-13\
Data File : Y3125.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 22:33
Operator : NG
Sample : PP-37_(0,E13-11406-009,S,5.37g,21.5,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:28:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	4064.6E6	8585.9E6	240.615	249.167
Spiked Amount 200.000			Recovery	=	120.31%	124.58%
2) S DCB	12.04	12.45	1241.3E6	3151.0E6	181.830	184.110
Spiked Amount 200.000			Recovery	=	90.92%	92.06%
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
23) L6 Aroclor-1248	4.45	5.09	43965193	83967517	42.192	34.104
24) L6 Aroclor-1248 {2}	4.98	5.67	91606049	551.0E6	149.183	150.141
25) L6 Aroclor-1248 {3}	5.30	6.07	111.0E6	448.7E6	140.011	171.583
26) L6 Aroclor-1248 {4}	6.00	6.22	229.5E6	221.4E6	183.359	97.523 #
27) L6 Aroclor-1248 {5}	6.27	6.58	122.5E6	109.3E6	126.422	81.351 #
Sum Aroclor-1248			598.6E6	1414.3E6	641.166	534.701
Average Aroclor-1248					128.233	106.940
28) L7 Aroclor-1254	6.39	7.11	120.9E6	200.0E6	96.830	62.339 #
29) L7 Aroclor-1254 {2}	6.82	7.65	121.8E6	413.7E6	148.230	159.890
30) L7 Aroclor-1254 {3}	6.99	8.26	185.8E6	328.2E6	123.449	125.888
31) L7 Aroclor-1254 {4}	7.43	8.49	179.7E6	116.1E6	109.255	76.610 #
32) L7 Aroclor-1254 {5}	8.22	9.08	375.7E6	753.1E6	249.533	198.789
Sum Aroclor-1254			984.0E6	1811.0E6	727.296	623.516
Average Aroclor-1254					145.459	124.703
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

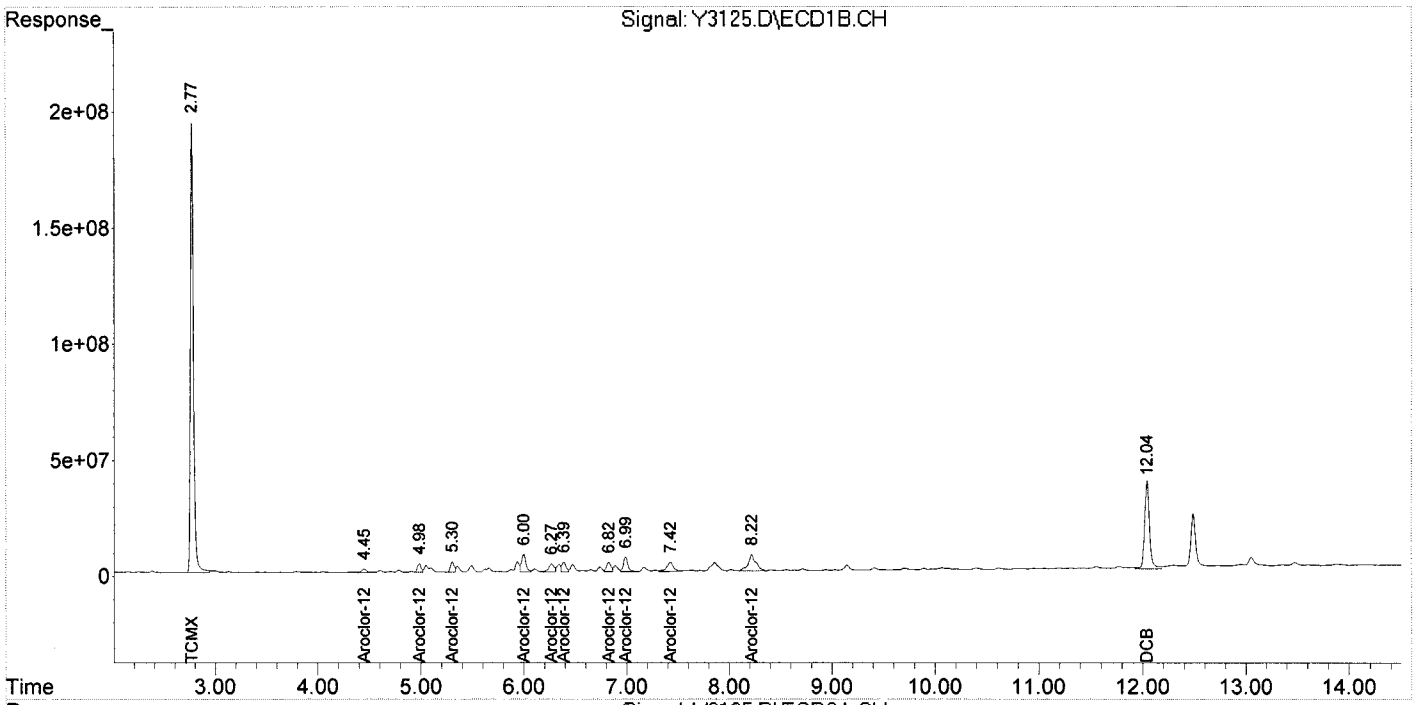
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

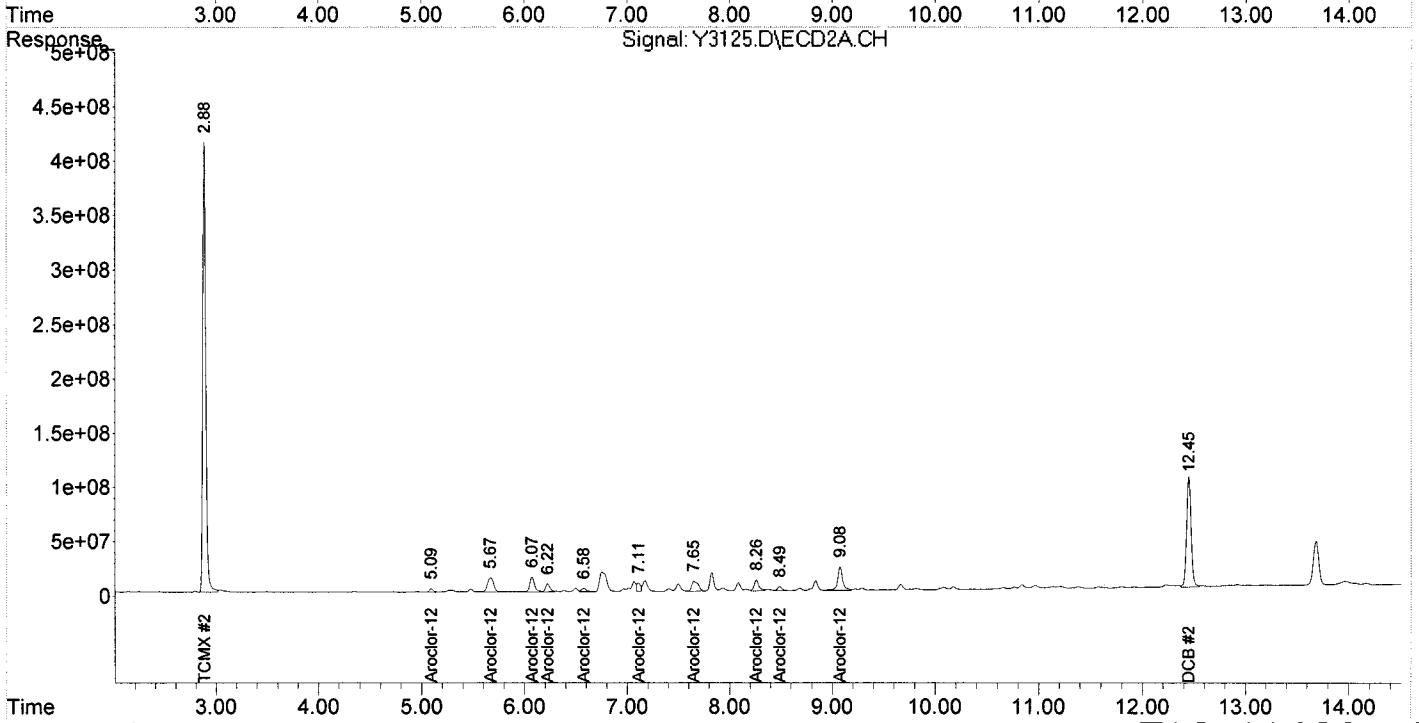
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3125.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 22:33
Operator : NG
Sample : PP-37_(0,E13-11406-009,S,5.37g,21.5,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:28:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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\11-20-13\
Data File : Y3126.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 22:50
Operator : NG
Sample : PP-37_(1,E13-11406-010,S,5.74g,21.8,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:30:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	3906.7E6	8195.9E6	231.265	237.847
Spiked Amount 200.000			Recovery	=	115.63%	118.92%
2) S DCB	12.04	12.45	1226.9E6	3083.1E6	179.716	180.144
Spiked Amount 200.000			Recovery	=	89.86%	90.07%
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	5.09	36817830	73405852	35.333	29.814
24) L6 Aroclor-1248 {2}	4.98	5.67	53064238	299.2E6	86.416	81.537
25) L6 Aroclor-1248 {3}	5.30	6.07	66823202	239.7E6	84.272	91.670
26) L6 Aroclor-1248 {4}	6.00	6.23	123.8E6	146.9E6	98.868	64.702 #
27) L6 Aroclor-1248 {5}	6.27	6.57	87686283	73365511	90.483	54.616 #
Sum Aroclor-1248			368.2E6	832.6E6	395.372	322.339
Average Aroclor-1248					79.074	64.468
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

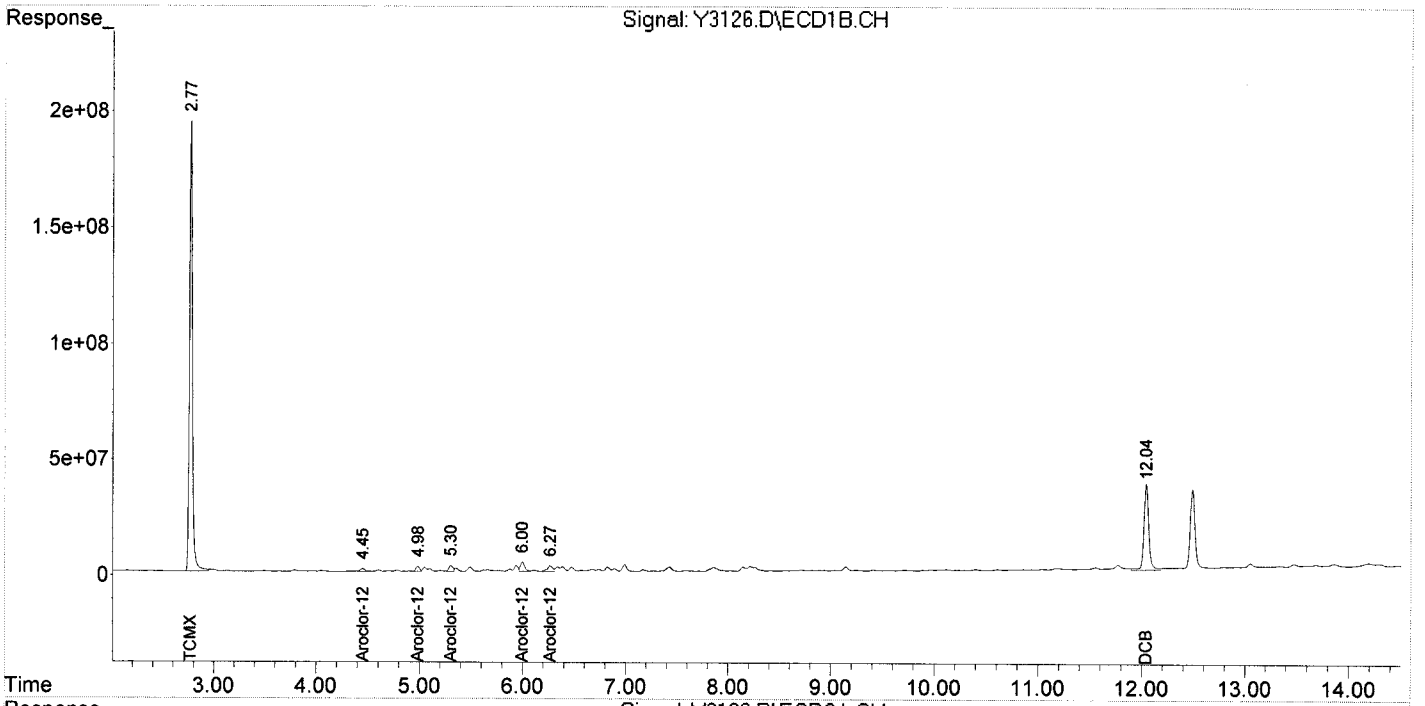
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

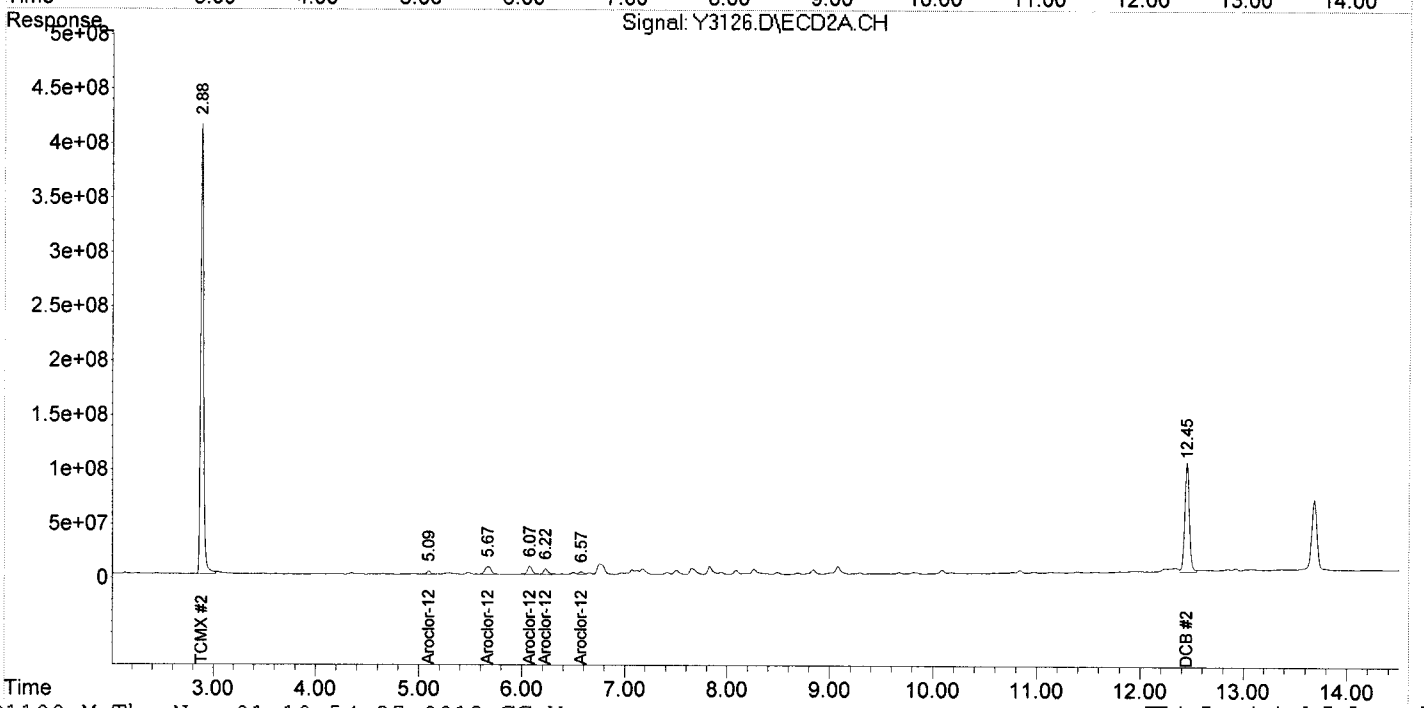
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3126.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 22:50
Operator : NG
Sample : PP-37_(1,E13-11406-010,S,5.74g,21.8,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:30:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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\11-20-13\
Data File : Y3127.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 23:07
Operator : NG
Sample : PP-36_(0,E13-11406-011,S,5.13g,86.0,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:32:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	5315.8E6	11331.0E6	314.683m	328.830m
Spiked Amount 200.000			Recovery	=	157.34%	164.41%
2) S DCB	12.04	12.45	1621.3E6	4028.7E6	237.496	235.394
Spiked Amount 200.000			Recovery	=	118.75%	117.70%
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	5.09	16284824	23030025	15.628	9.354 #
24) L6 Aroclor-1248 {2}	4.98	5.67	30109761	149.0E6	49.034	40.612
25) L6 Aroclor-1248 {3}	0.00	6.07	0	119.6E6	N.D. d	45.739 #
26) L6 Aroclor-1248 {4}	6.00	6.22	44456365	57422561	35.514	25.295 #
27) L6 Aroclor-1248 {5}	6.27	6.57	24050664	19037493	24.818	14.172 #
Sum Aroclor-1248			114.9E6	368.1E6	124.994	135.172
Average Aroclor-1248					31.249	27.034
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

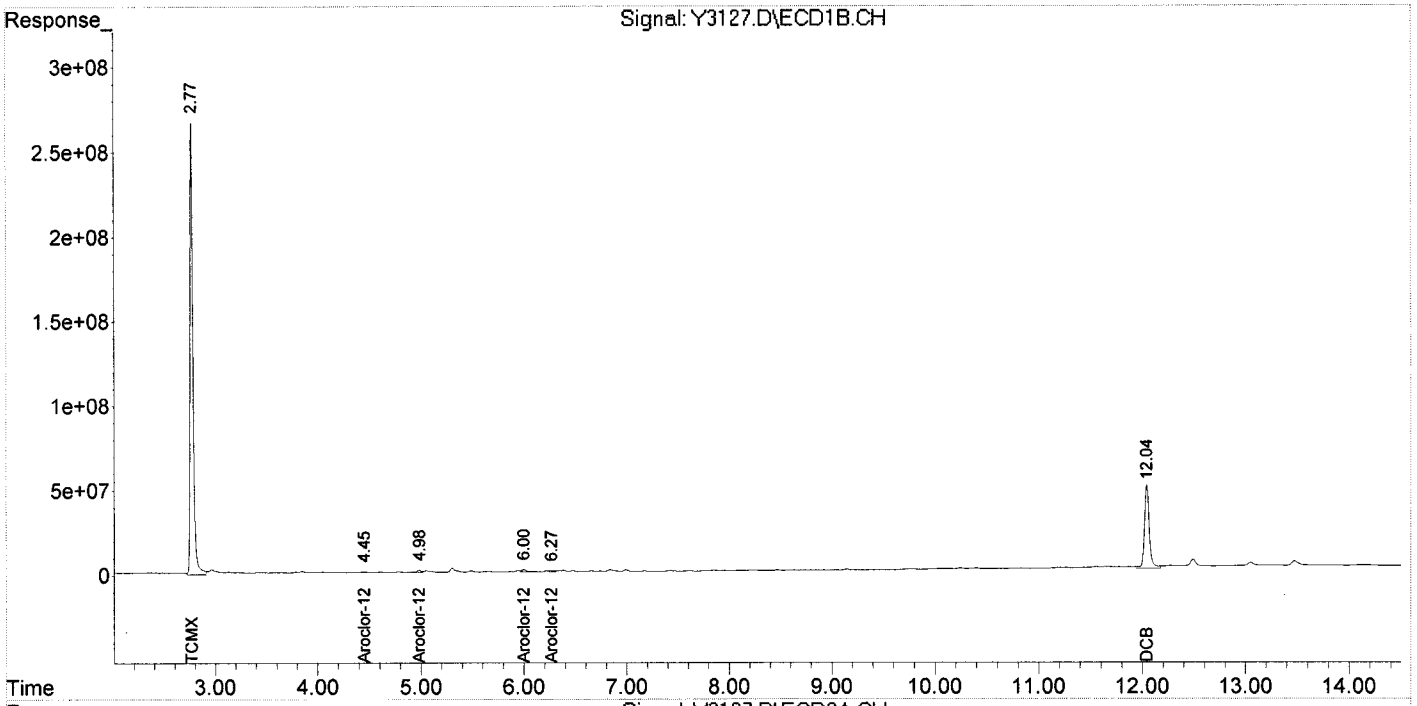
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

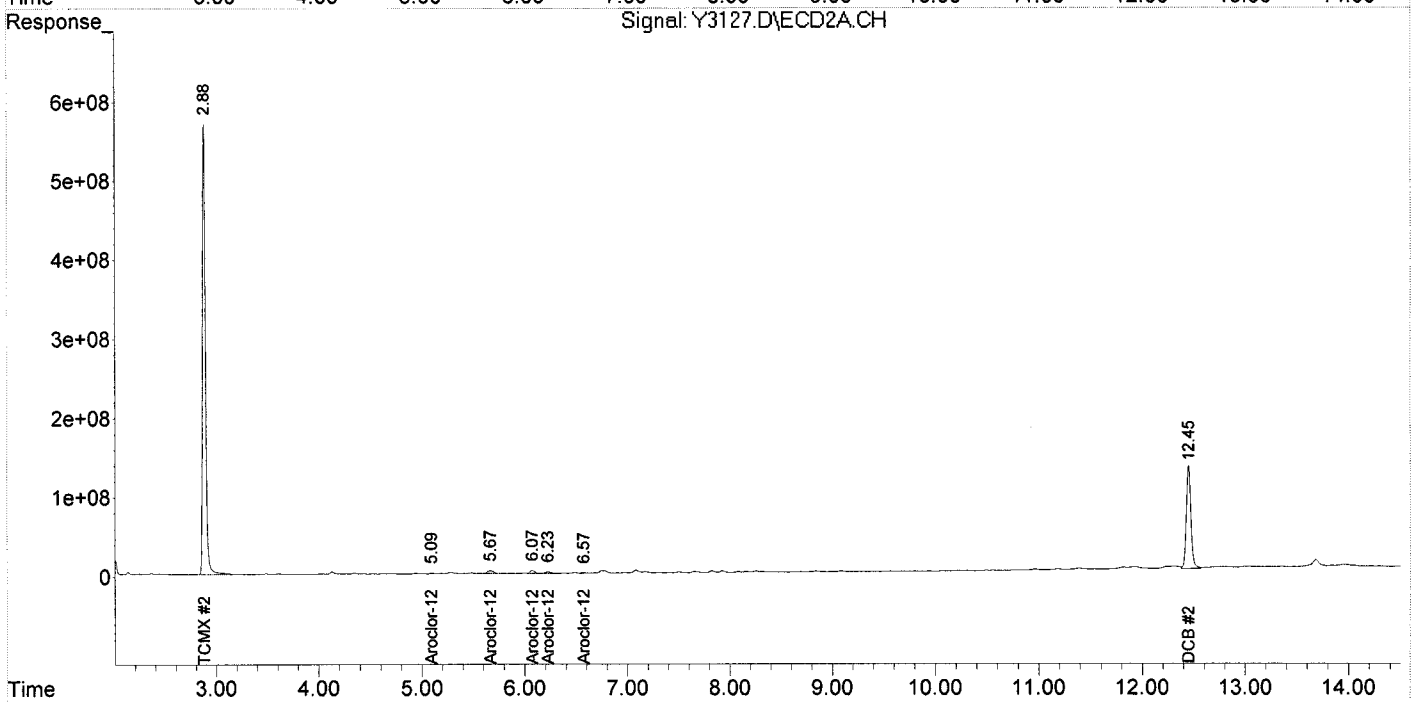
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3127.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 23:07
Operator : NG
Sample : PP-36_(0,E13-11406-011,S,5.13g,86.0,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:32:42 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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\11-20-13\
Data File : Y3128.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 23:24
Operator : NG
Sample : PP-36_(1,E13-11406-012,S,5.37g,64.1,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:33:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	4532.5E6	9807.1E6	268.313	284.607
Spiked Amount 200.000			Recovery	=	134.16%	142.30%
2) S DCB	12.04	12.45	1311.6E6	3578.7E6	192.118	209.099
Spiked Amount 200.000			Recovery	=	96.06%	104.55%
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

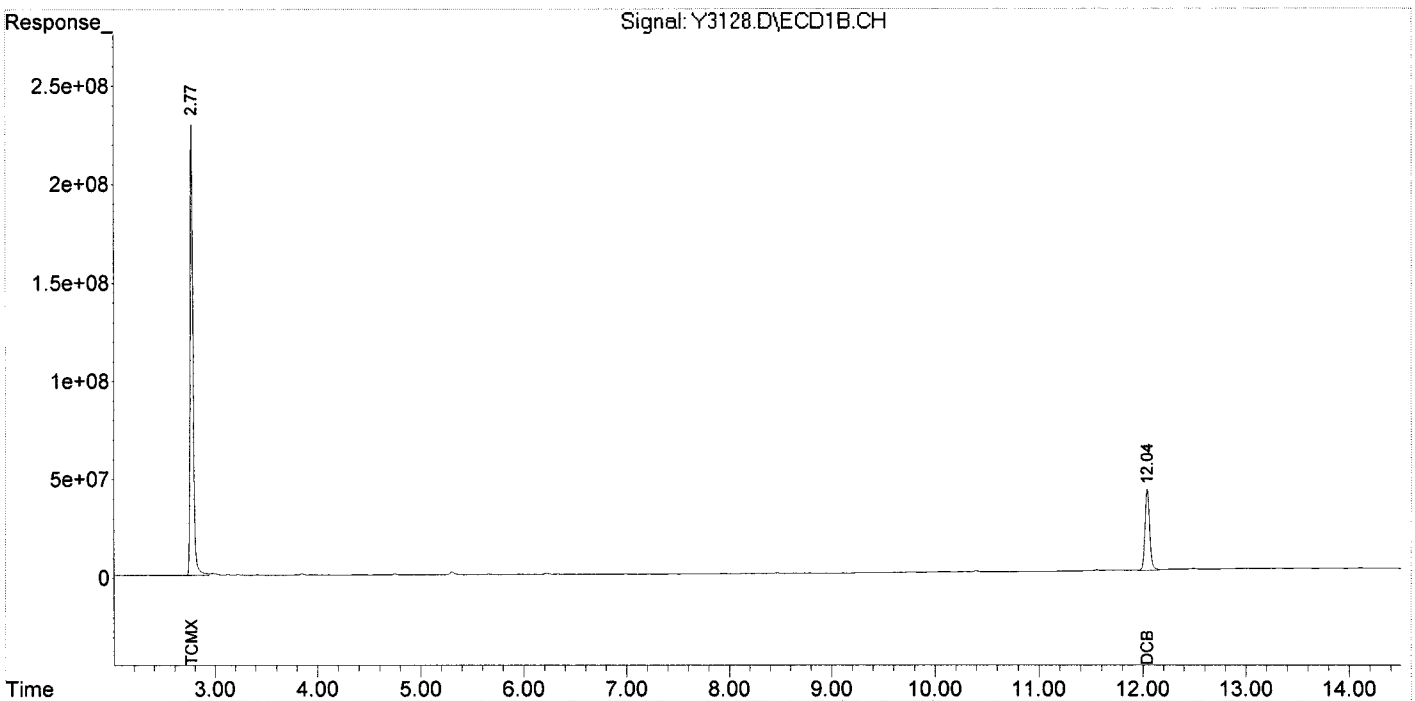
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

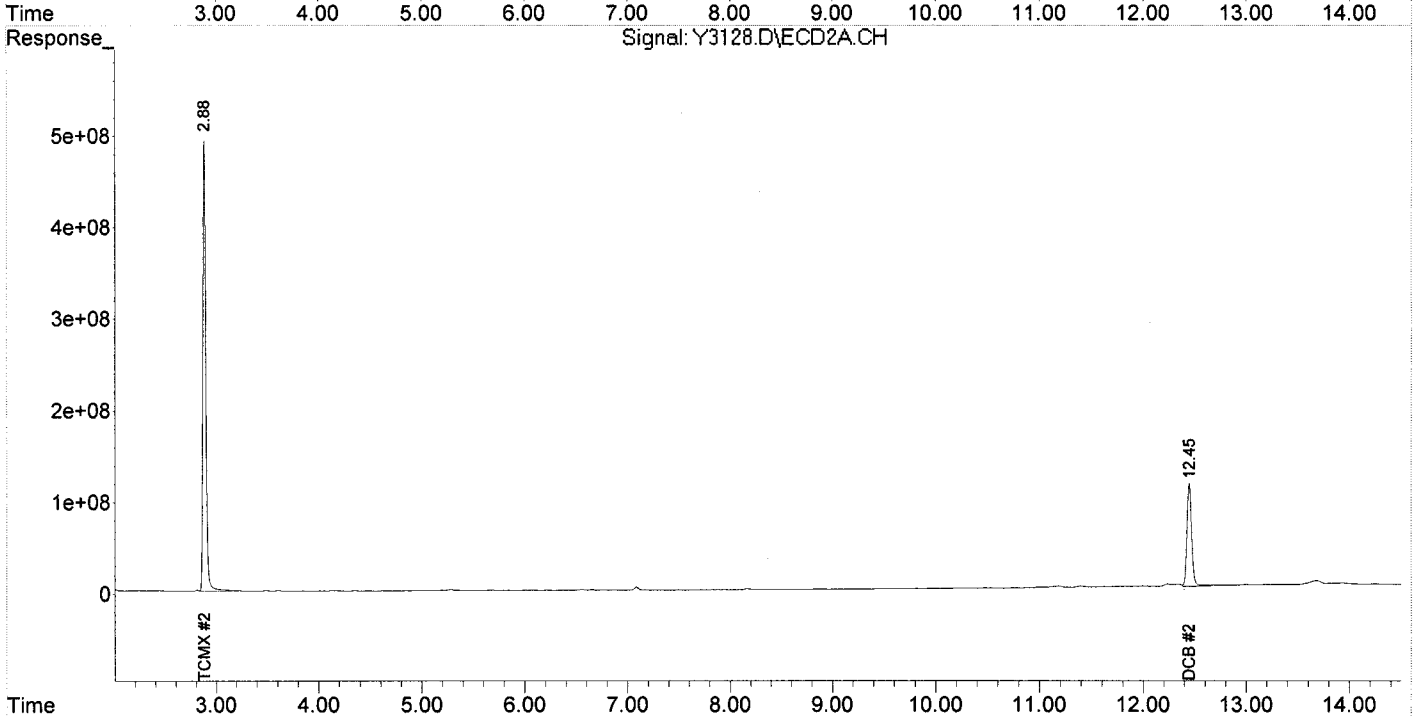
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3128.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 23:24
Operator : NG
Sample : PP-36_(1,E13-11406-012,S,5.37g,64.1,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:33:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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\11-20-13\
Data File : Y3129.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 23:42
Operator : NG
Sample : JJ-39_(2,E13-11406-013,S,5.63g,21.9,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:33:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	4004.1E6	8520.7E6	237.033	247.273
Spiked Amount 200.000			Recovery	=	118.52%	123.64%
2) S DCB	12.04	12.45	1168.1E6	3161.4E6	171.108	184.715
Spiked Amount 200.000			Recovery	=	85.55%	92.36%
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

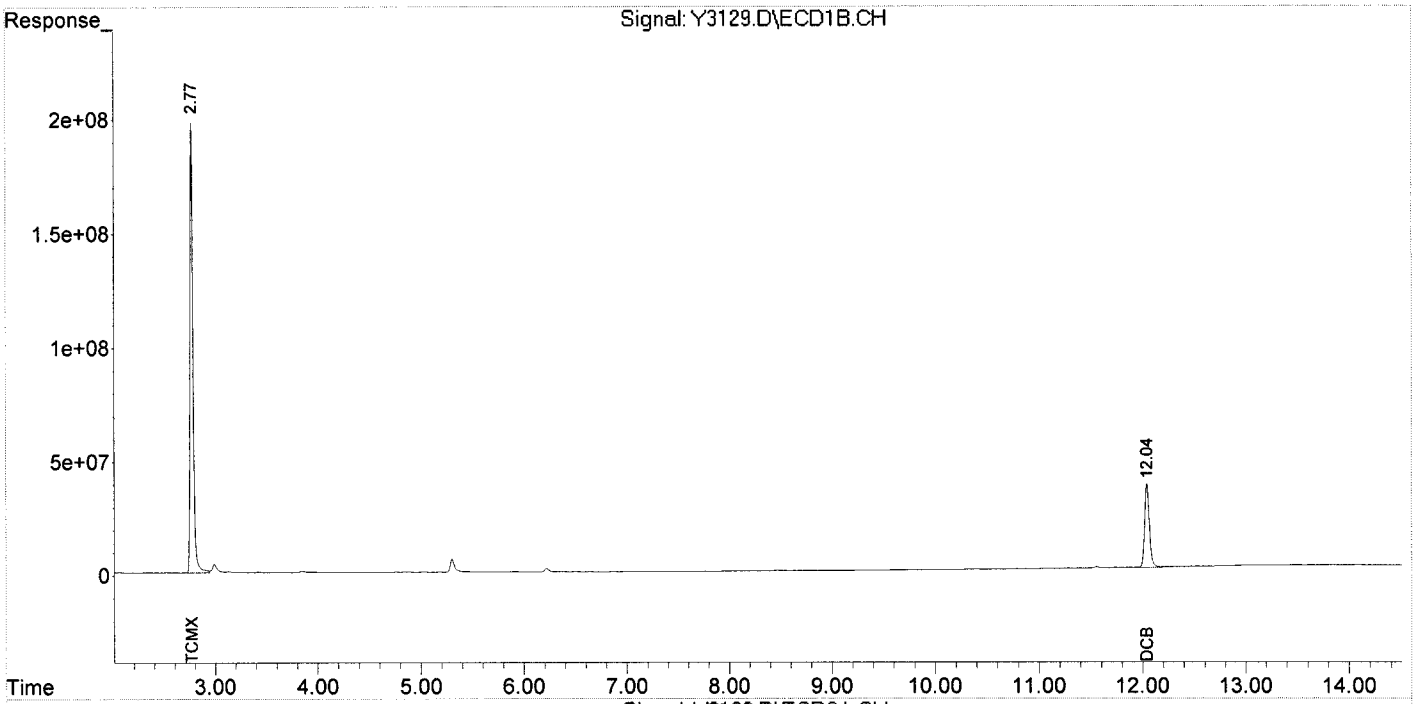
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

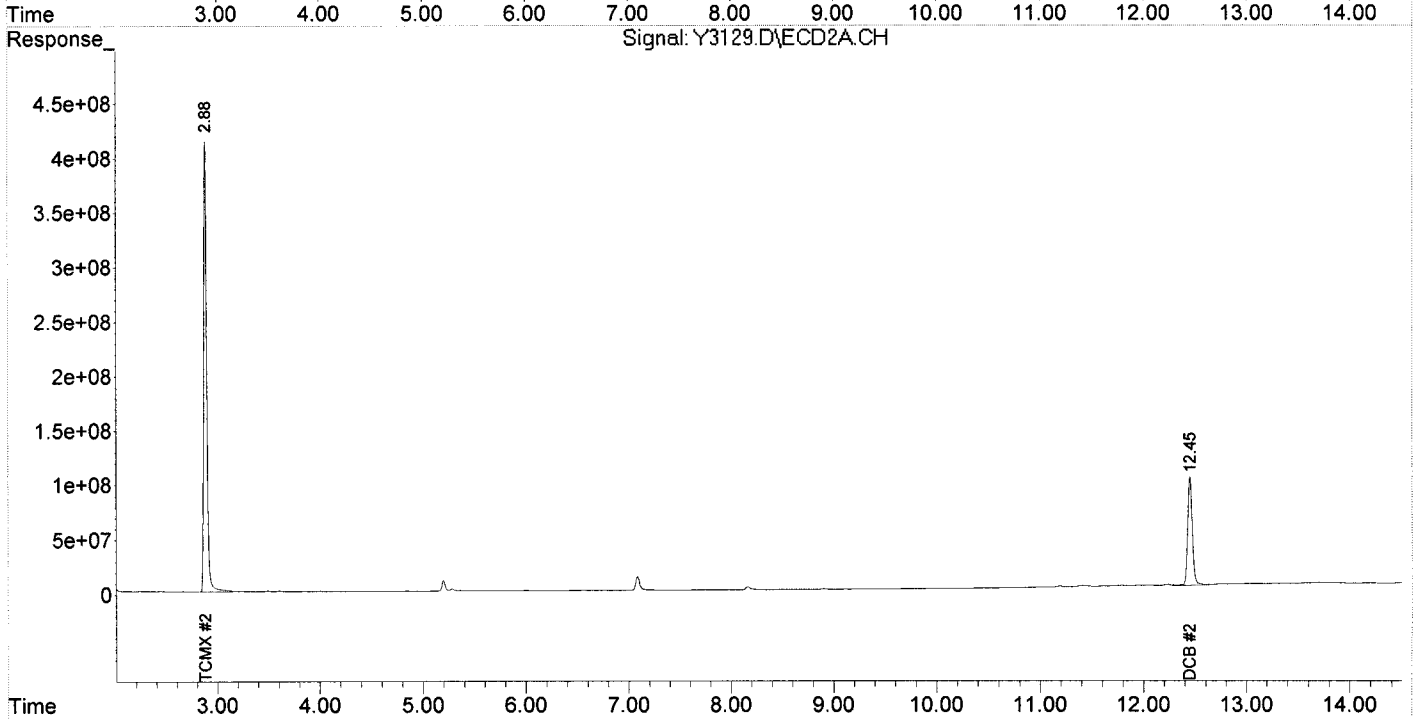
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3129.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 23:42
Operator : NG
Sample : JJ-39_(2,E13-11406-013,S,5.63g,21.9,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:33:55 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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\11-20-13\
Data File : Y3130.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 23:59
Operator : NG
Sample : JJ-40_(0,E13-11406-014,S,5.06g,78.5,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 11:18:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	4745.4E6	10147.2E6	280.917	294.477
Spiked Amount 200.000			Recovery	=	140.46%	147.24%
2) S DCB	12.04	12.45	1454.2E6	3949.0E6	213.011	230.732
Spiked Amount 200.000			Recovery	=	106.51%	115.37%
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	5.09	2006.5E6	4094.4E6	1925.619m	1662.978
24) L6 Aroclor-1248 {2}	4.98	5.68	1030.4E6	5964.4E6	1678.070	1625.308
25) L6 Aroclor-1248 {3}	5.30	6.07	1467.0E6	4898.3E6	1850.010	1873.324
26) L6 Aroclor-1248 {4}	6.00	6.22	1666.3E6	3382.9E6	1331.134	1490.181
27) L6 Aroclor-1248 {5}	6.26	6.57	1302.2E6	1307.8E6	1343.780	973.539 #
Sum Aroclor-1248			7472.5E6	19647.9E6	8128.612	7625.330
Average Aroclor-1248					1625.722	1525.066
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

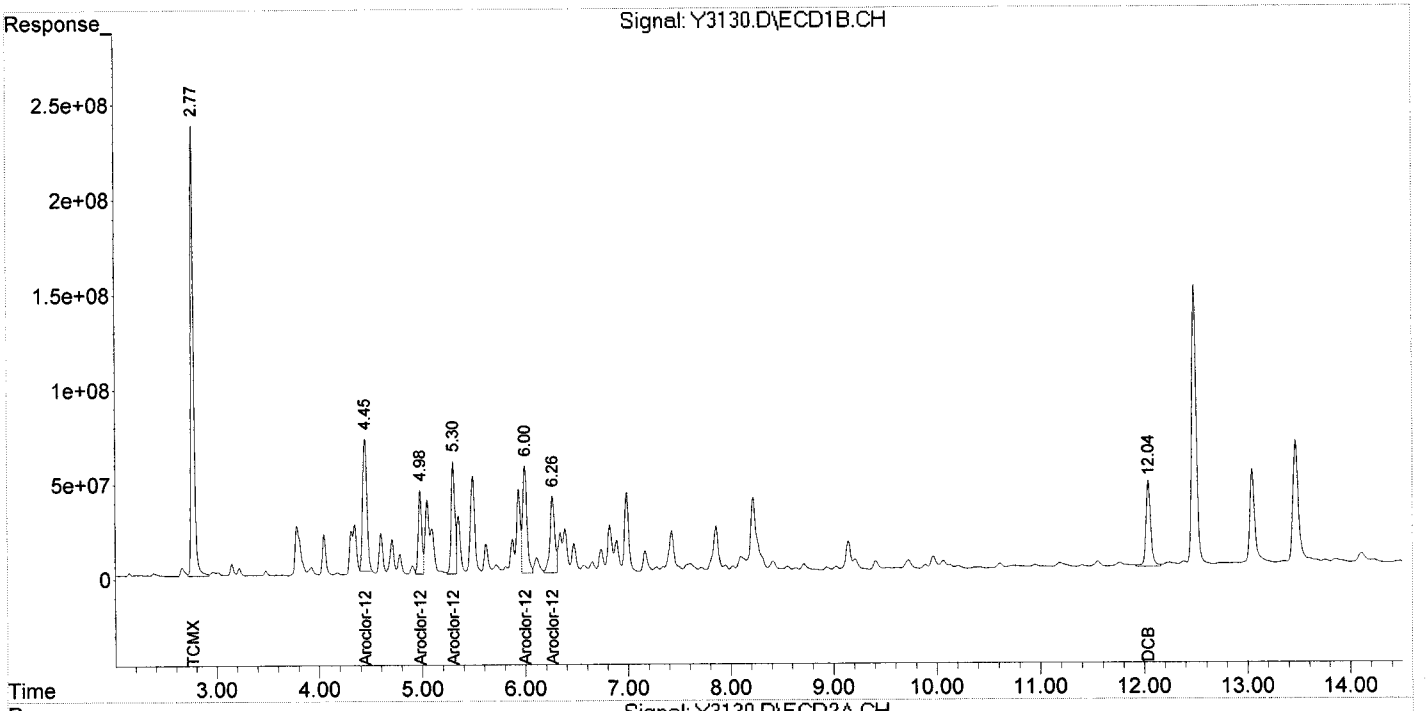
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

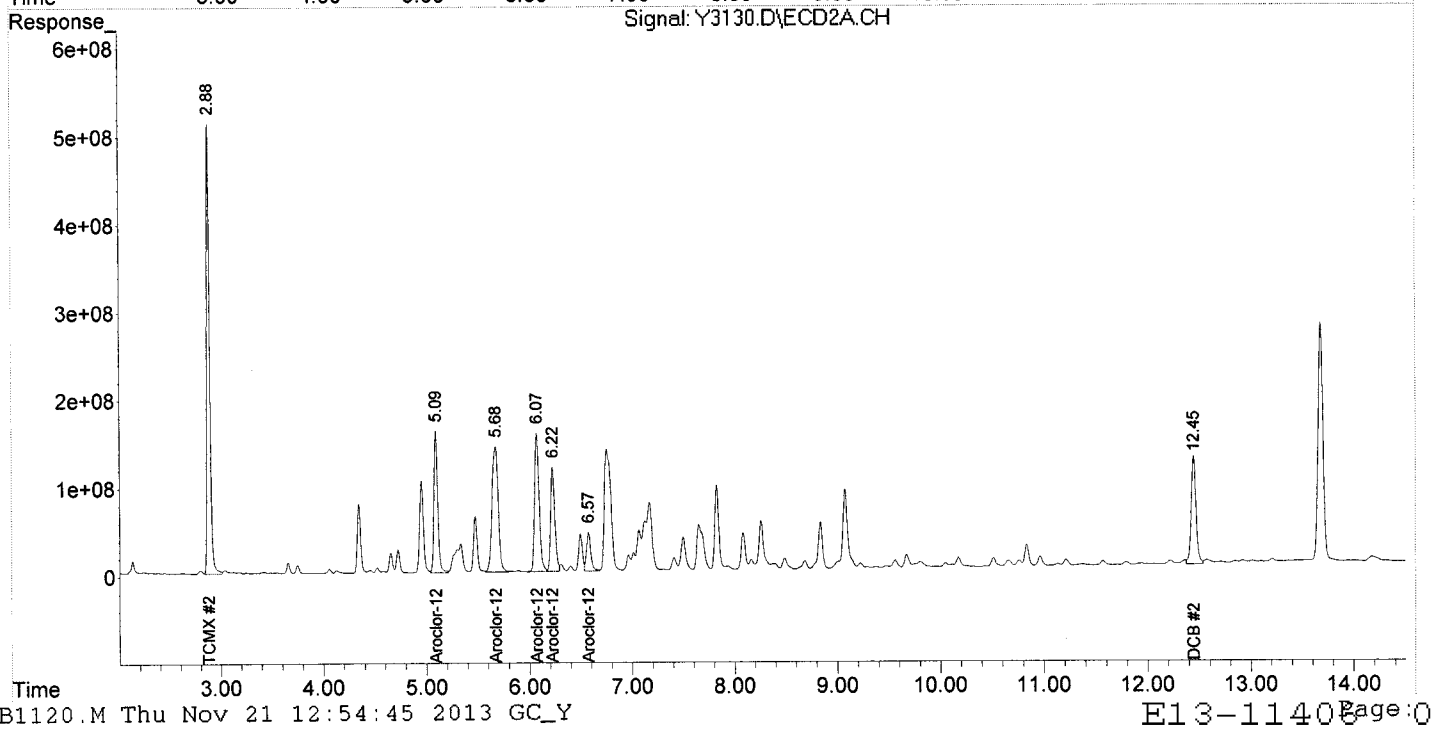
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3130.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 23:59
Operator : NG
Sample : JJ-40_(0,E13-11406-014,S,5.06g,78.5,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 11:18:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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\11-20-13\
Data File : Y3131.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 21 Nov 2013 00:16
Operator : NG
Sample : JJ-40_(1,E13-11406-015,S,5.26g,73.1,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 11:21:12 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	4567.5E6	10161.5E6	270.386	294.892
Spiked Amount 200.000			Recovery	=	135.19%	147.45%
2) S DCB	12.04	12.45	1470.6E6	4005.3E6	215.407	234.026
Spiked Amount 200.000			Recovery	=	107.70%	117.01%
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

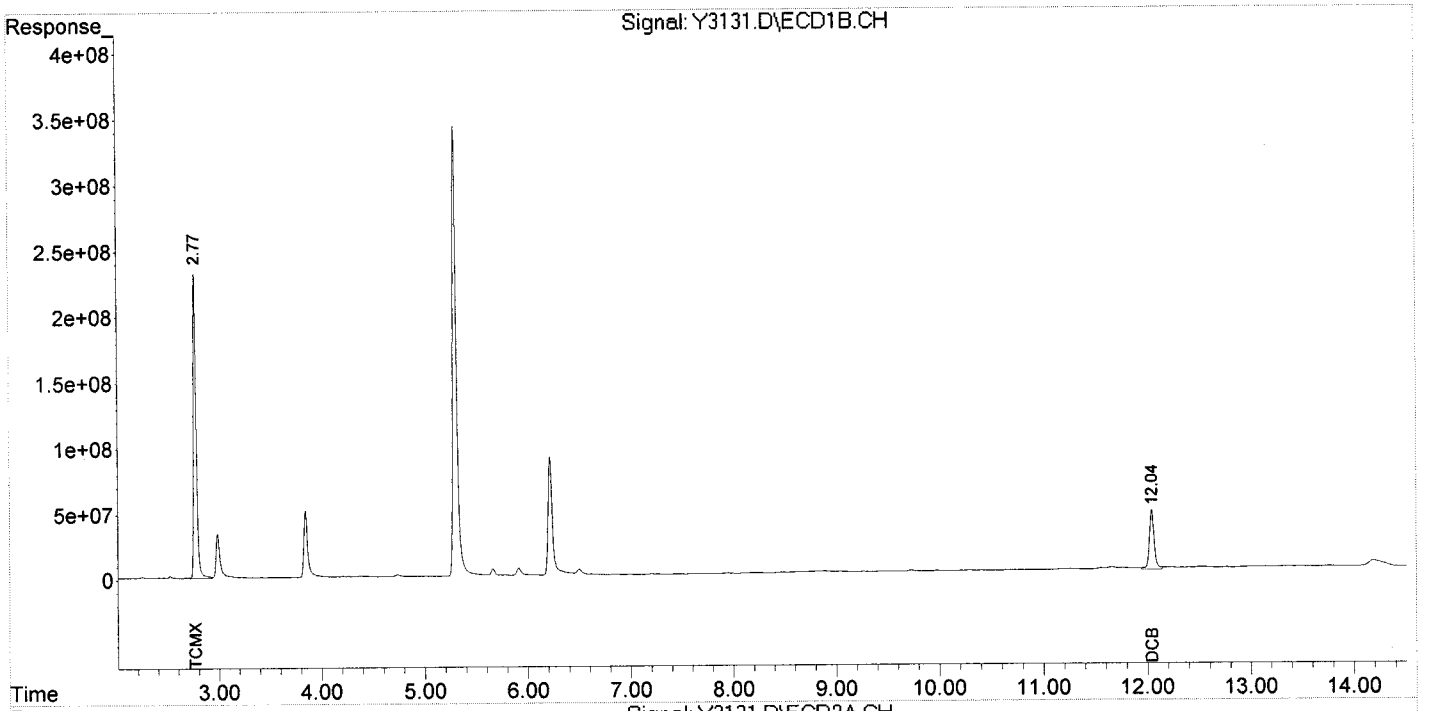
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

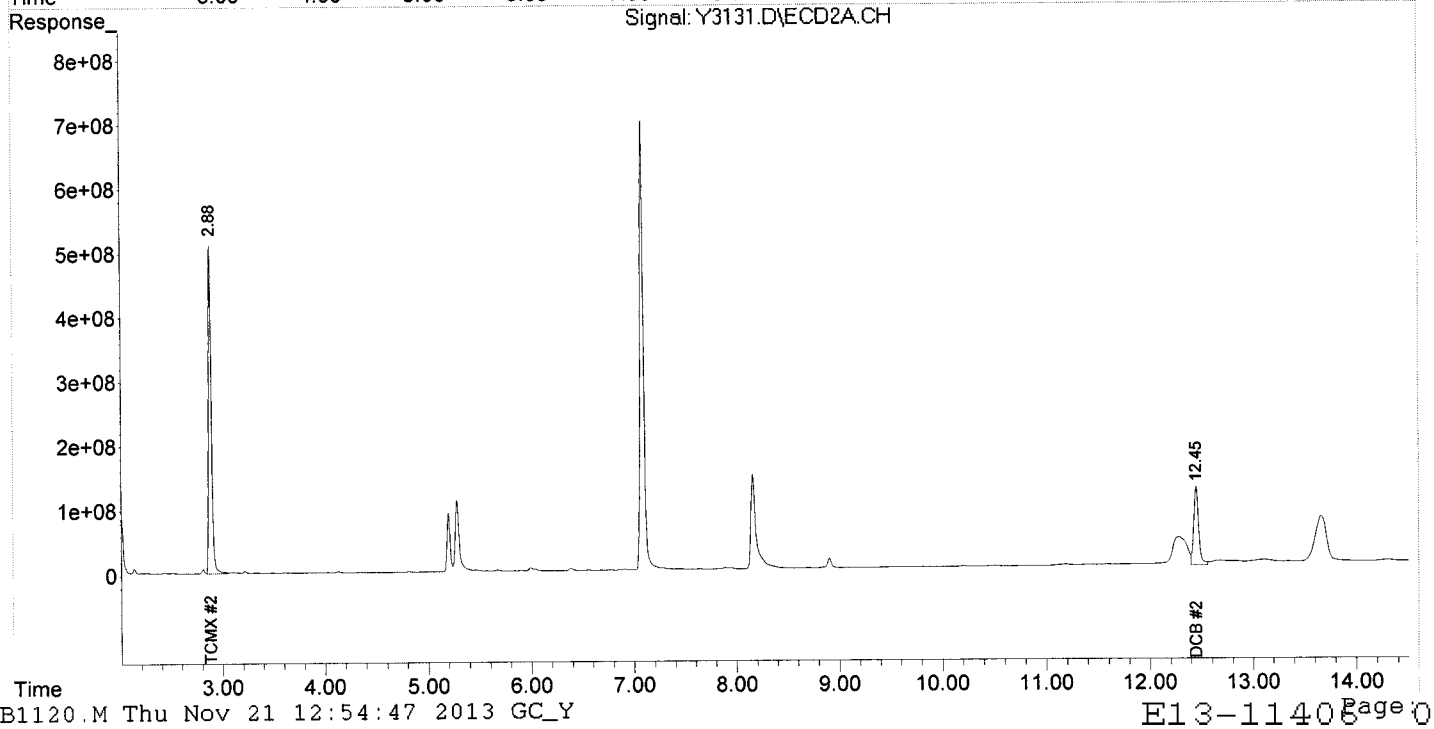
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3131.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 21 Nov 2013 00:16
Operator : NG
Sample : JJ-40_(1,E13-11406-015,S,5.26g,73.1,20
Misc : 131120-06,11/20/13,11/14/13,1
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 11:21:12 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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\11-21-13\
Data File : R5536.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 21 Nov 2013 14:59
Operator : JS
Sample : FB-34,E13-11406-016,A,1000ml,100,5
Misc : 131120-09,11/20/13,11/14/13,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 16:37:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.56	1999.7E6	4150.2E6	173.401	173.651
Spiked Amount 200.000			Recovery	=	86.70%	86.83%
2) S DCB	12.08	11.93	532.2E6	1200.1E6	162.437	189.786
Spiked Amount 200.000			Recovery	=	81.22%	94.89%
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
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

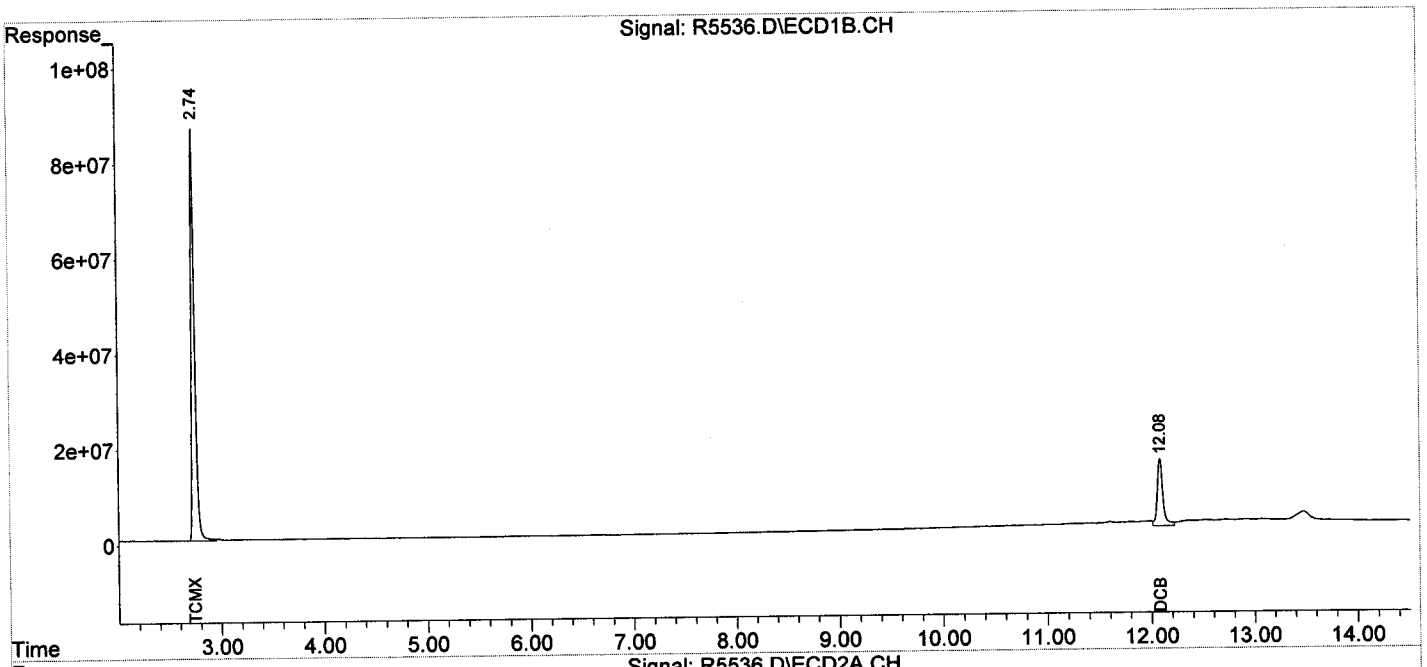
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

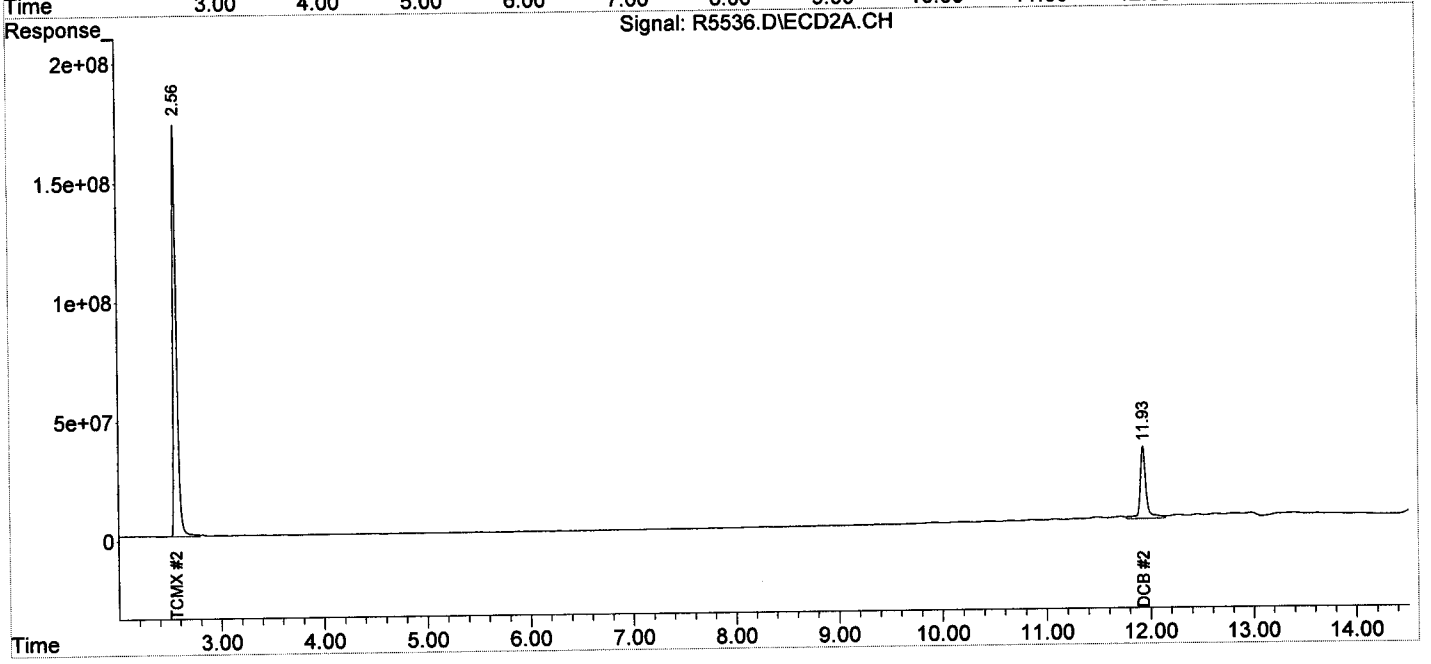
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-21-13\
Data File : R5536.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 21 Nov 2013 14:59
Operator : JS
Sample : FB-34,E13-11406-016,A,1000ml,100,5
Misc : 131120-09,11/20/13,11/14/13,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 16:37:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKS131115-13
Client ID: PCB
Date Received: NA
Date Extracted: 11/15/2013
Date Analyzed: 11/18/2013
Data file: Y3049.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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3049.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 11:06
Operator : NG
Sample : PCB,BLKS131115-13,S,5.00g,0,20
Misc : NA,11/15/13,NA,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 18 11:25:33 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.76	2.88	4049.2E6	8590.1E6	223.098	205.227
Spiked Amount 200.000			Recovery	=	111.55%	102.61%
2) S DCB	12.03	12.47	1164.5E6	2804.5E6	159.670	178.575
Spiked Amount 200.000			Recovery	=	79.83%	89.29%
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

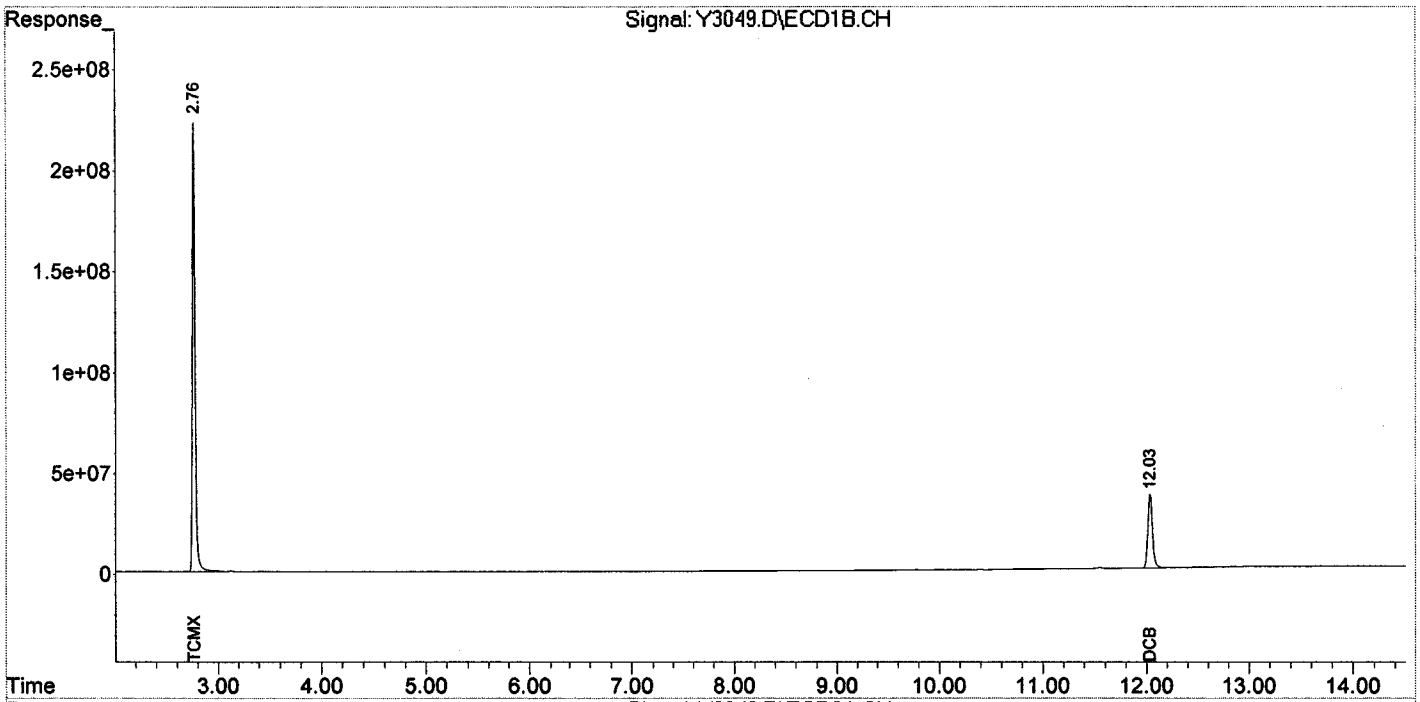
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

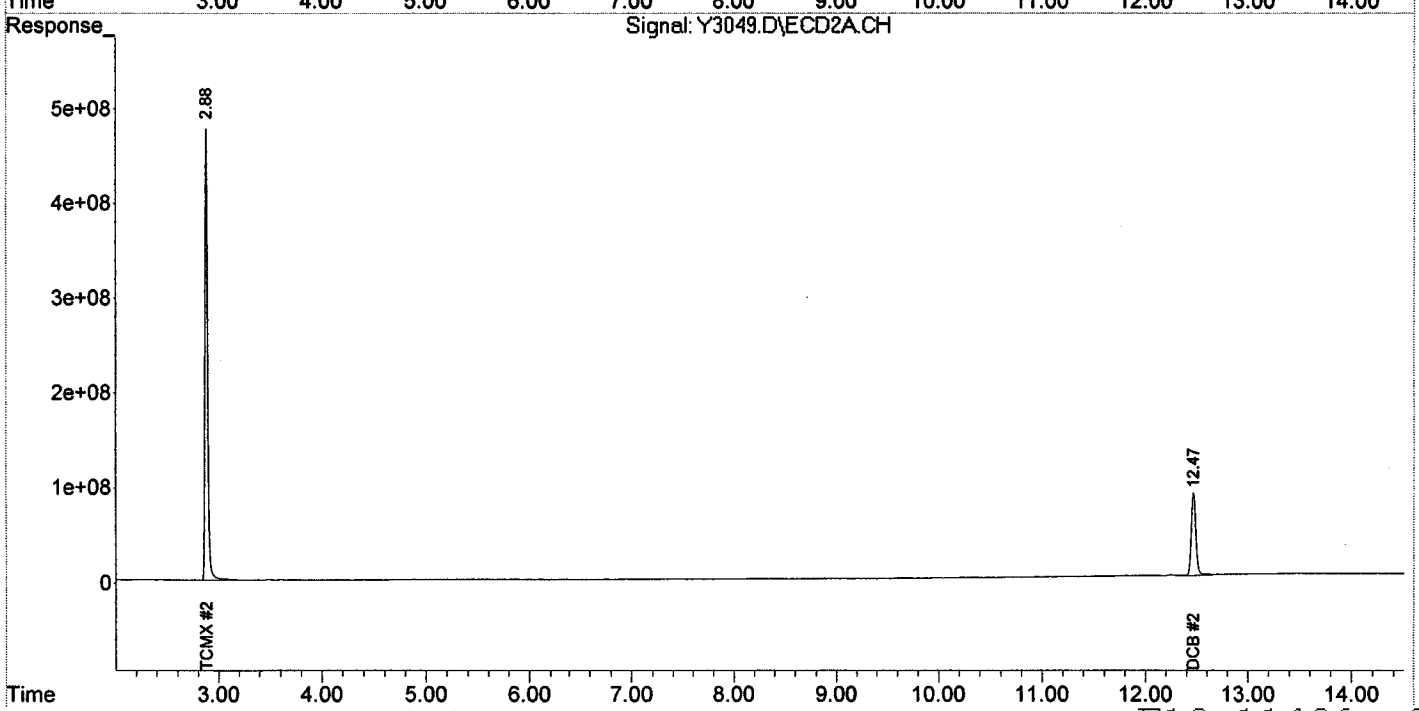
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-18-13\
Data File : Y3049.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 18 Nov 2013 11:06
Operator : NG
Sample : PCB,BLKS131115-13,S,5.00g,0,20
Misc : NA,11/15/13,NA,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 18 11:25:33 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1024.M
Quant Title :
QLast Update : Wed Nov 06 13:35:50 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKS131120-06
Client ID: PCB
Date Received: NA
Date Extracted: 11/20/2013
Date Analyzed: 11/20/2013
Data file: Y3121.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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3121.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 21:24
Operator : NG
Sample : PCB,BLKS131120-06,S,5.00g,0,20
Misc : NA,11/20/13,NA,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:00:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	3924.0E6	8331.9E6	232.292	241.796
Spiked Amount 200.000			Recovery	=	116.15%	120.90%
2) S DCB	12.04	12.45	1264.1E6	3495.0E6	185.165	204.209
Spiked Amount 200.000			Recovery	=	92.58%	102.10%
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

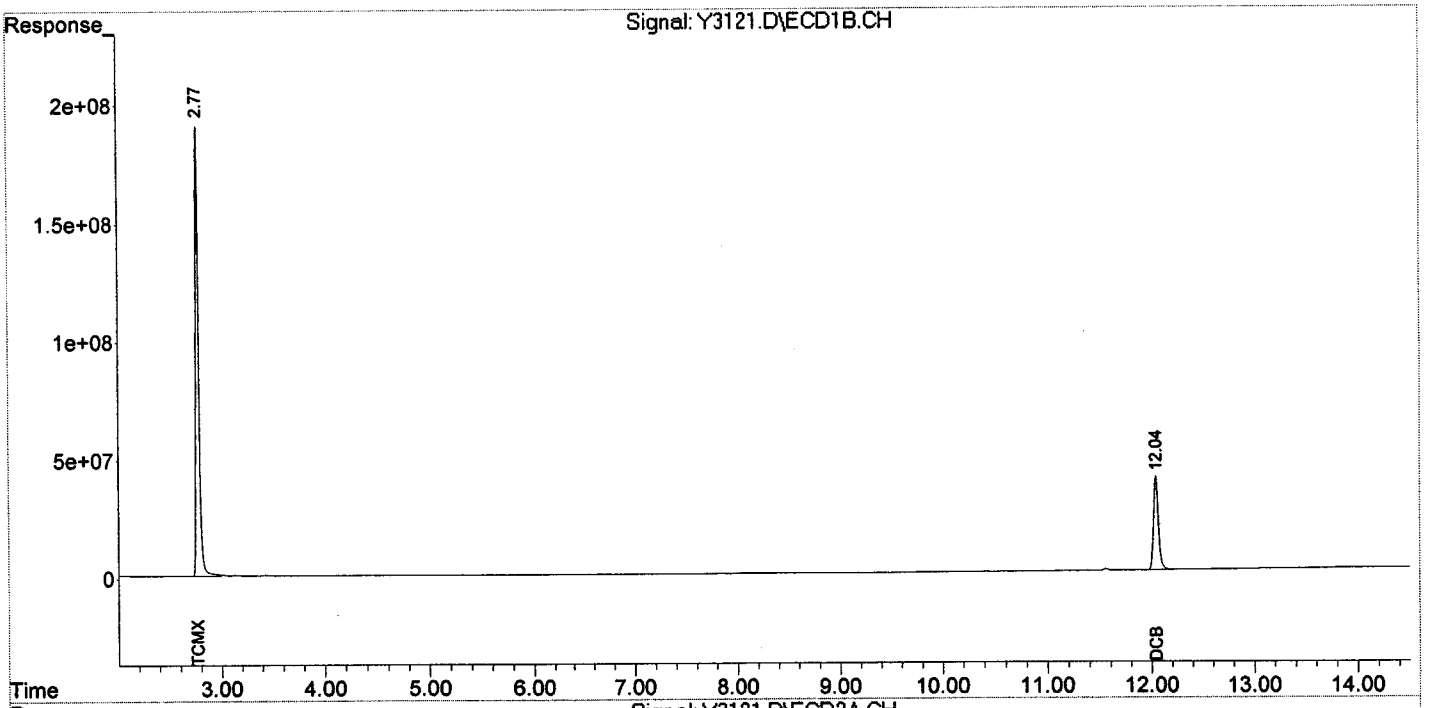
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

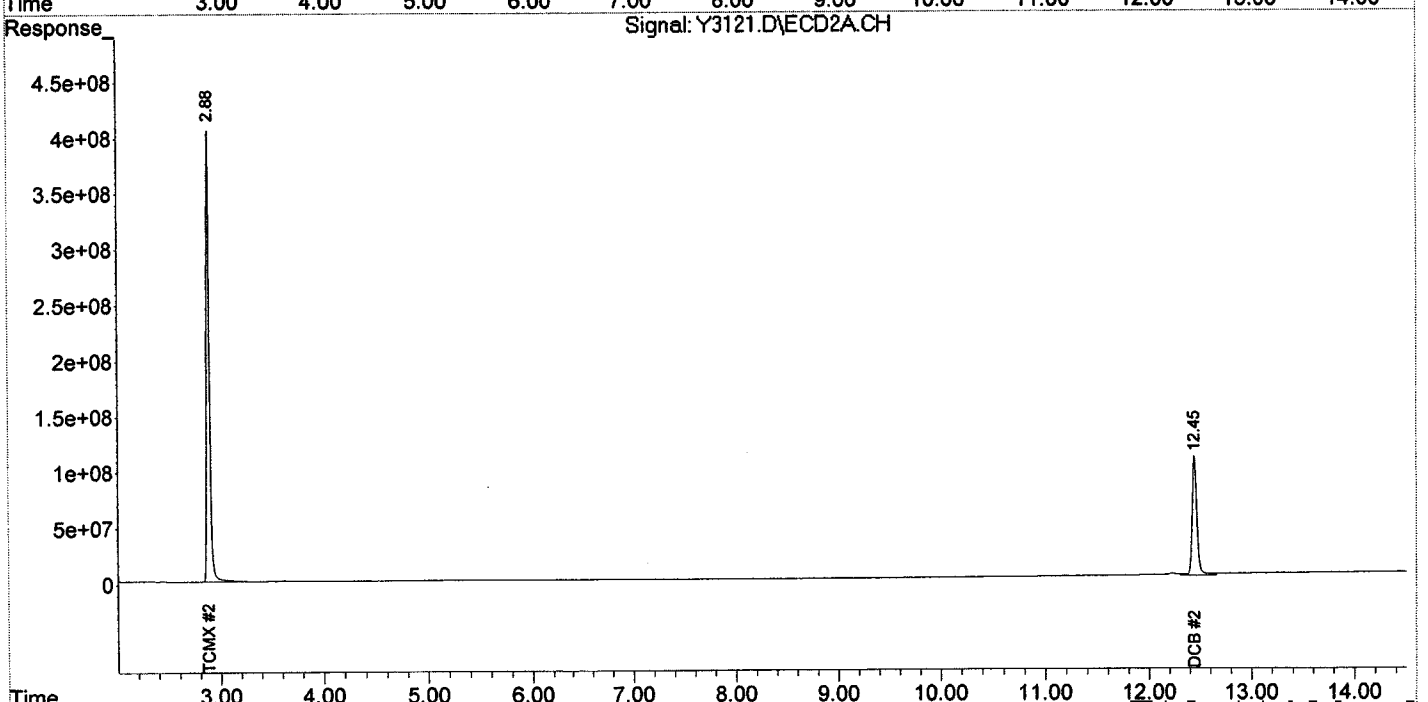
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-20-13\
Data File : Y3121.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 20 Nov 2013 21:24
Operator : NG
Sample : PCB,BLKS131120-06,S,5.00g,0,20
Misc : NA,11/20/13,NA,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 10:00:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Thu Nov 21 09:56:51 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: BLKA131120-09
Client ID: PCB
Date Received: NA
Date Extracted: 11/20/2013
Date Analyzed: 11/21/2013
Data file: R5533.D

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

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

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

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

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-21-13\
Data File : R5533.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 21 Nov 2013 14:07
Operator : JS
Sample : PCB,BLKA131120-09,A,1000ml,100,5
Misc : NA,11/20/13,NA,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 16:15:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2116.8E6	4631.5E6	183.554	193.788
Spiked Amount 200.000			Recovery	=	91.78%	96.89%
2) S DCB	12.08	11.94	517.7E6	995.9E6	158.016	157.495
Spiked Amount 200.000			Recovery	=	79.01%	78.75%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
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

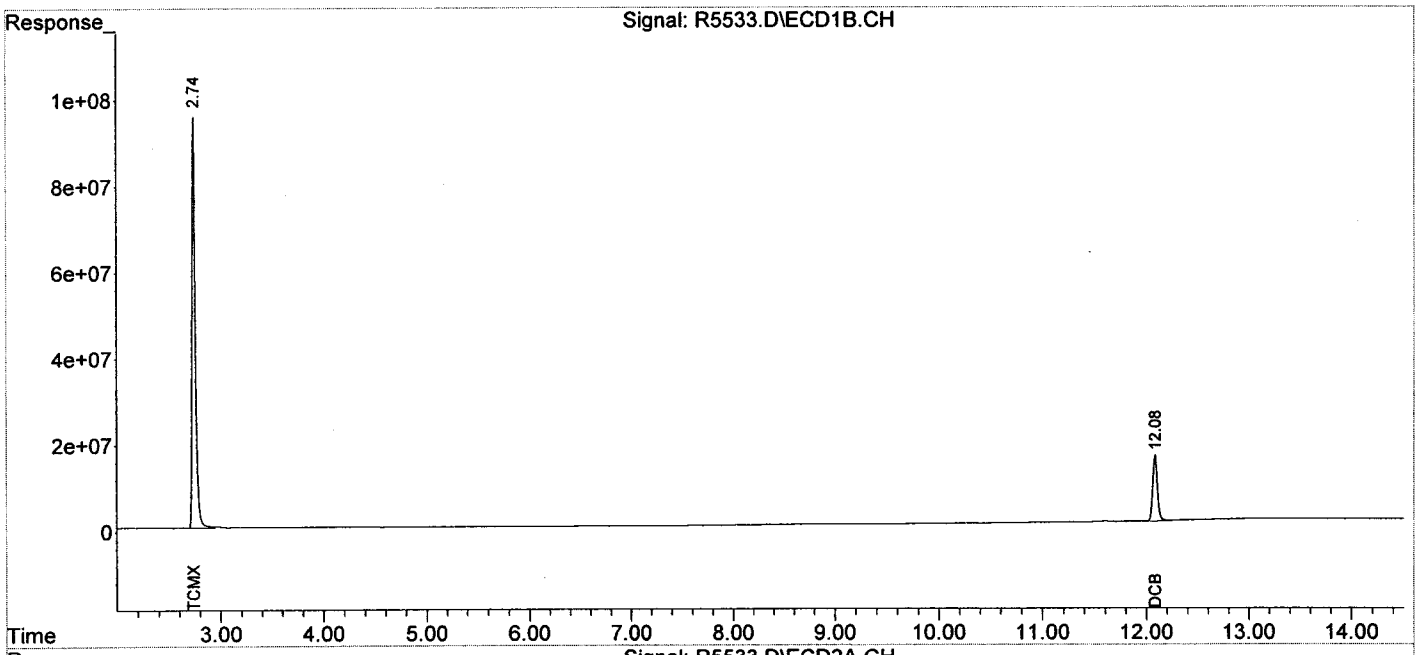
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

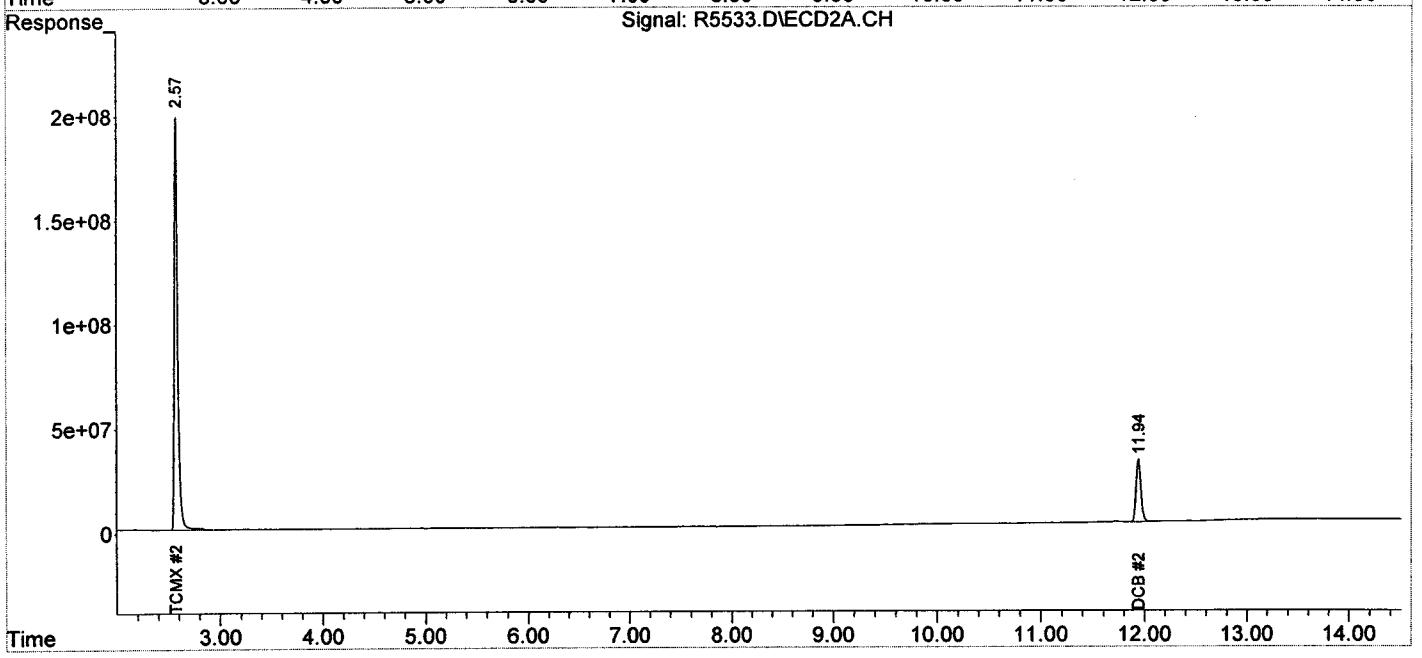
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\11-21-13\
Data File : R5533.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 21 Nov 2013 14:07
Operator : JS
Sample : PCB,BLKA131120-09,A,1000ml,100,5
Misc : NA,11/20/13,NA,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Nov 21 16:15:41 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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





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 Matrix

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

SAMPLE INFORMATION

ANALYTICAL PARAMETERS

BOTTLES & PRESERVATIVES

Client ID	Depth (ft only)	Sampling Date	Sampling Time	Matrix	# containers	IAL #	TCL PCB (8082)	HCL	HNO3	MeOH	H2SO4	NAOH/ZNAc	Sterile
OO-38 (0-1.0)		11/14/13	11:40	S	1	1	X						
OO-38 (1.0-2.0)		↓	11:41	S	1	2	X						
NN-39 (0-1.0)			11:55	S	1	3	X						
NN-39 (1.0-2.0)			11:56	S	1	4	X						
NN-40 (0-1.0)			12:13	S	1	5	X						
NN-40 (1.0-2.0)			12:14	S	1	6	X						
MM-40 (0-1.0)			12:30	S	1	7	X						
MM-40 (1.0-2.0)			12:31	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]	11/14/13		Received by:	[signature]	11-14-13	1530
Relinquished by:	[signature]	11-14-13	1715	Received by:		11/14/13	1715
Relinquished by:				Received by:			
Relinquished by:				Received by:			
Relinquished by:				Received by:			

Comments:

Lab Case # 11406

PAGE: 1 of 2

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

0117

C:\Documents and Settings\skosch\Desktop\Copy of PCB IALCOC

10/2010 rev

IAL
Integrated Analytical Laboratories LLC

Integrated Analytical Labs
273 Franklin Rd
Randolph, NJ 07869

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

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

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

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

PHC - MUST CHOOSE

NJ EPH DRO (5 day TAT) NJ EPH Fractionated (5 day TAT)

NJ EPH - C40 (5 day TAT)

DRO-8015 (3-5 day TAT) QAM025 (5 day TAT)

Verbal/Fax: Std 2 wk unless otherwise specified

24 hr** 48 hr** 72 hr** 96 hr** 1 wk**

Other** (specify): _____

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

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

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

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

Cooler Temp 4 °C

Sample Matrix

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

SAMPLE INFORMATION

ANALYTICAL PARAMETERS

BOTTLES & PRESERVATIVES

Client ID	Depth (ft only)	Sampling Date	Sampling Time	Matrix	# containers	IAL #	TCL PCB (8082)	HCL	HNO3	MeOH	H2SO4	NAOH/ZNAc	Sterile
PP-37 (0-1.0)		11/14/13	1:07	S	1	9	X						
PP-37 (1.0-2.0)			1:08	S	1	10	X						
PP-36 (0-1.0)			1:45	S	1	11	X						
PP-36 (1.0-2.0)			1:46	S	1	12	X						
JJ-39 (2.0-3.0)			2:21	S	1	13	X						
JJ-40 (0-1.0)			2:58	S	1	14	X						
JJ-40 (1.0-2.0)			2:59	S	1	15	X						
FB-34			3:10	AQ	2	16	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:	11/14/13		Received by:	11-14-13	1530
Relinquished by:	11-14-13	1715	Received by:	11/14/13	1715
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Comments:

Lab Case # 11406

PAGE: 2 of 2

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

0118

IAL
Integrated Analytical Laboratories LLC

PROJECT INFORMATION

E13-11406: ARSYNCO

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

Report To

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

Bill To

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

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced	22126	Nov 14, 2013 @ 17:15	NA	Dec 03, 2013	Dec 10, 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
11406-001	OO-38 (0-1.0)	0/1	11/14/13@11:40	Soil	mg/Kg (ppm)	
11406-002	OO-38 (1.0-2.0)	1/2	11/14/13@11:41	Soil	mg/Kg (ppm)	
11406-003	NN-39 (0-1.0)	0/1	11/14/13@11:55	Soil	mg/Kg (ppm)	
11406-004	NN-39 (1.0-2.0)	1/2	11/14/13@11:56	Soil	mg/Kg (ppm)	
11406-005	NN-40 (0-1.0)	0/1	11/14/13@12:13	Soil	mg/Kg (ppm)	
11406-006	NN-40 (1.0-2.0)	1/2	11/14/13@12:14	Soil	mg/Kg (ppm)	
11406-007	MM-40 (0-1.0)	0/1	11/14/13@12:30	Soil	mg/Kg (ppm)	
11406-008	MM-40 (1.0-2.0)	1/2	11/14/13@12:31	Soil	mg/Kg (ppm)	
11406-009	PP-37 (0-1.0)	0/1	11/14/13@13:07	Soil	mg/Kg (ppm)	
11406-010	PP-37 (1.0-2.0)	1/2	11/14/13@13:08	Soil	mg/Kg (ppm)	
11406-011	PP-36 (0-1.0)	0/1	11/14/13@13:45	Soil	mg/Kg (ppm)	
11406-012	PP-36 (1.0-2.0)	1/2	11/14/13@13:46	Soil	mg/Kg (ppm)	
11406-013	JJ-39 (2.0-3.0)	2/3	11/14/13@14:21	Soil	mg/Kg (ppm)	
11406-014	JJ-40 (0-1.0)	0/1	11/14/13@14:58	Soil	mg/Kg (ppm)	
11406-015	JJ-40 (1.0-2.0)	1/2	11/14/13@14:59	Soil	mg/Kg (ppm)	
11406-016	FB-34	NA	11/14/13@15:10	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
002	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
003	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
004	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
005	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
006	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
007	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013

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

ACCREDITED IN ACCORDANCE WITH nelac
IAL is a NELAP New Jersey Accredited Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), Pennsylvania (68-00773) and West Virginia TO-15 and Method 18.

IAL
Integrated Analytical Laboratories LLC

PROJECT INFORMATION

E13-11406: ARSYNCO

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
008	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
009	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
010	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
011	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
012	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
013	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
014	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
015	TCL PCB	Analyze	8082A	STD/2 WKS	11/28/2013
016	TCL PCB	Analyze	8082A	STD/2 WKS	11/21/2013

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

ACCREDITED IN ACCORDANCE WITH nelac

IAL is a NELAP New Jersey Accredited Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), Pennsylvania (68-00773) and West Virginia TO-15 and Method 18.

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: **E 13** **11406** 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 11/14/13

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

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

CLIENT NOTIFIED: YES ☐ Date/ Time: _____ NO ☐
PROJECT CONTACT:
SUBCONTRACTED LAB:
DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY: INITIAL KG DATE 11/15/13

Laboratory Custody Chronicle

IAL Case No.

E13-11406

Client JMC Environmental Consultants

Project ARSYNCO

Received On 11/14/2013@17:15

Department: GC

			Prep. Date	Analyst	Analysis Date	Analyst
TCL PCB	11406-001	Soil	11/15/13	Archimede	11/18/13	Nicole
"	-002	"	11/15/13	Archimede	11/18/13	Nicole
"	-003	"	11/15/13	Archimede	11/18/13	Nicole
"	-004	"	11/15/13	Archimede	11/18/13	Nicole
"	-005	"	11/15/13	Archimede	11/18/13	Nicole
"	-006	"	11/15/13	Archimede	11/18/13	Nicole
"	-007	"	11/20/13	Archimede	11/20/13	Nicole
"	-008	"	11/20/13	Archimede	11/20/13	Nicole
"	-009	"	11/20/13	Archimede	11/20/13	Nicole
"	-010	"	11/20/13	Archimede	11/20/13	Nicole
"	-011	"	11/20/13	Archimede	11/20/13	Nicole
"	-012	"	11/20/13	Archimede	11/20/13	Nicole
"	-013	"	11/20/13	Archimede	11/20/13	Nicole
"	-014	"	11/20/13	Archimede	11/20/13	Nicole
"	-015	"	11/20/13	Archimede	11/20/13	Nicole
"	-016	Aqueous	11/20/13	Archimede	11/21/13	Justyna

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