US EPA Region 10 Laboratory

Multi Analyte Verification Report

4/25/2017

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 17154100
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 6

Initial Amount: 40 mL **Weight Basis:** ~~Dry~~ NA **Suffix:**
Final Amount: 10 mL ~~**%Solids:** * 100~~
Dilution Factor: 1 **Analyzed:** 4/17/17 5:48 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

For ad

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	70	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	72	%Rec		

VP 4/25/17

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Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 17154101
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 7

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/17/17 6:13 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	80	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	81	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 17154102
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 8

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/17/17 6:38 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	80	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	82	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 17154103
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 3

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/18/17 2:12 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M041817A02-8082A-MINERVA-DWO-041817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
7	11097691	PCB-1254	Target	0.86	ug		0.25ug

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Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 17154103
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 9

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/17/17 7:02 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	81	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.59	ug		0.25ug
9	2051243	PCB Congener 209	Surrogate	81	%Rec		

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Multi Analyte Verification Report

4/25/2017

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 17154104
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 10

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/17/17 7:27 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	82	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8.	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	85	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** **17154105**
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 11

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/17/17 7:52 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	80	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	79	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 17154106
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 12

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/17/17 8:16 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	83	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	84	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 17154107
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 13

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/17/17 8:41 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	82	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	84	%Rec		

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Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 17154108
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Sample
Project Officer: Michelle Mullin **Matrix:** Wipe/Swab
Account Code: 20172018B10P501E50 **Container ID :** N1

Collected: 4/11/17 Prepped: 4/17/17 Released:
Received: 4/13/17 Reviewed:
Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 5

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/18/17 3:01 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A-M041817A02-8082A-MINERVA-DWO-041817

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
7	11097691	PCB-1254	Target	0.28	ug		0.25ug

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB

Project Name: SKY VALLEY EDUCATION CENTER

Project Officer: Michelle Mullin

Account Code: 20172018B10P501E50

Sample ID: 17154108

Type: Sample

Matrix: Wipe/Swab

Container ID : N1

Collected: 4/11/17 Prepped: 4/17/17

Received: 4/13/17

Released:

Reviewed:

Promised:

VERIFIED ___/___/___ _____

Analysis Seq : 14

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**

Final Amount: 10 mL **%Solids:** * 100

Dilution Factor: 1 **Analyzed:** 4/17/17 9:06 pm

Method: 8082A Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	83	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.32	ug		0.25ug
9	2051243	PCB Congener 209	Surrogate	78	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 92O41717B1
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Blank
Project Officer: Michelle Mullin **Matrix:** Swab
Account Code: 20172018B10P501E50 **Container ID :**

Collected: Prepped: 4/17/17 Released:
Received: Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 3

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/17/17 4:34 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	66	%Rec		
2	11104282	PCB-1221	Target	0.25	ug	U	0.25ug
3	11141165	PCB-1232	Target	0.25	ug	U	0.25ug
4	12674112	PCB-1016	Target	0.25	ug	U	0.25ug
5	53469219	PCB-1242	Target	0.25	ug	U	0.25ug
6	12672296	PCB-1248	Target	0.25	ug	U	0.25ug
7	11097691	PCB-1254	Target	0.25	ug	U	0.25ug
8	11096825	PCB-1260	Target	0.25	ug	U	0.25ug
9	2051243	PCB Congener 209	Surrogate	70	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 92O41717L1
Project Name: SKY VALLEY EDUCATION CENTER **Type:** Lab Control Std
Project Officer: Michelle Mullin **Matrix:** Swab
Account Code: 20172018B10P501E50 **Container ID :**

Collected: Prepped: 4/17/17 Released:
Received: Reviewed:
Promised:
VERIFIED ___/___/___ _____ **Analysis Seq :** 4

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**
Final Amount: 10 mL **%Solids:** * 100
Dilution Factor: 1 **Analyzed:** 4/17/17 4:59 pm
Method: 8082A Polychlorinated Biphenyls by GC/ECD
Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	69	%Rec		
4	12674112	PCB-1016	Spike	62	%Rec		0.25ug
8	11096825	PCB-1260	Spike	69	%Rec		0.25ug
9	2051243	PCB Congener 209	Surrogate	73	%Rec		

US EPA Region 10 Laboratory

Multi Analyte Verification Report

Project Code: OCE-009D **Parameter:** PCB **Sample ID:** 92O41717L2

Project Name: SKY VALLEY EDUCATION CENTER **Type:** Lab Control Std Dup.

Project Officer: Michelle Mullin **Matrix:** Swab

Account Code: 20172018B10P501E50 **Container ID :**

Collected: Prepped: 4/17/17 Released:

Received: Reviewed:

Promised:

VERIFIED ___/___/___ _____ **Analysis Seq :** 5

Initial Amount: 40 mL **Weight Basis:** Dry **Suffix:**

Final Amount: 10 mL **%Solids:** * 100

Dilution Factor: 1 **Analyzed:** 4/17/17 5:24 pm

Method: 8082A Polychlorinated Biphenyls by GC/ECD

Anl. Batch: A--8082A-MINERVA-DWO-

	Analyte Code	Analyte Name	Res Type	Result	Units	Qlfr	RL
1	877098	Tetrachlorometaxylene	Surrogate	67	%Rec		
4	12674112	PCB-1016	Spike	61	%Rec		0.25ug
8	11096825	PCB-1260	Spike	67	%Rec		0.25ug
9	2051243	PCB Congener 209	Surrogate	70	%Rec		

- Analyst Case Narrative

R10 Organics Data Package Checklist		
Project: Sky Valley Education Center		**Project Code:** OCE-009D
Parameter: PCB		**SOP(s):** Or_P042, Or_8082A
Analyst: DWOOD		**EPA Reviewer:** CPACE
		Comments/Deficiencies:
	1. Multi-anlayte verification reports	
x	*Present and correct for each sample, including QC*	
	2. Batch summaries	
x	*Analysis log (method indicated and initialed)*	
n/a	*Internal Standard/Surrogate Spike Summaries, if applicable*	
	3. BFB/DFTPP tune, *if applicable*	
n/a	*Tune summary reports (meets SOP ion abundance and 12hr criteria)*	
	4. Initial Calibration	1260 Initial Calibration ran 3/21/17, updated peaks on 4/17/17. Renamed ICAL M032117PCB1260_41717.M. 1254 Initial Calibration ran 3/30/17, updated peaks on 4/17/17. Renamed ICAL M033017PCB1254_41717.M.
x	*Calibration report (meets SOP criteria)*	
x	*RRF report, if applicable (meets SOP criteria)*	
x	*%Difference report (meets SOP criteria)*	
x	*Second source verification (meets SOP criteria)*	
x	*Quantitation reports (detailed)*	
x	*Compound retention time/identification verified*	
	5. Continuing Calibration	
x	*Continuing calibration %D report (meets SOP criteria)*	
x	*Continuing calibration RRF report, if applicable (meets SOP criteria)*	
x	*Quantitation reports (detailed)*	
x	*Compound retention time/identification verified*	
	6. Samples	
x	*Sample results summary*	
x	*Quantitation reports (detailed)*	
x	*Compound retention time/identification verified*	
	7. Blanks	
x	*Sample results summary (meets SOP criteria)*	
x	*Quantitation reports (detailed)*	

	8. LCS/LCSD	
x	*LCS/LCSD summary (meets SOP criteria)*	
x	*LCS/LCSD meets QAPP criteria*	
x	*Sample results summary*	
x	*Quantitation reports (detailed)*	
	9. MS/MSD, *if applicable*	
n/a	*MS/MSD summary (meets SOP criteria)*	
n/a	*MS/MSD meets QAPP criteria*	
n/a	*Sample results summary*	
n/a	*Quantitation reports (detailed)*	
	10. Duplicates, *if applicable*	
n/a	*Duplicates summary (meets SOP criteria)*	
n/a	*Duplicates meets QAPP criteria*	
n/a	*Sample results summary*	
n/a	*Quantitation reports (detailed)*	
	11. Surrogates	
x	*Surrogates (meets SOP criteria)*	
	12. Internal Standards, *if applicable*	
n/a	*Internal Standards (meets SOP criteria)*	
	13. Supporting data	
x	*Extraction documentation*	
x	*Standards documentation*	
x	*Chain-of-Custodies*	
	14. Supplemental Data	
n/a	*IDOC/LOD/LOQ*	
x	*Other runs not reported*	
x	**15. Archival Disk**	
Corrective Action Narrative initiated:___Yes___**No**		No

Additional Comments:

- Batch Summaries, by analytical batch
    a. Analysis log (Macro – Print Analysis Log)
    b. Sequence
    c. IS/SS Summaries (ConCal – QA Check Rpt)

Analysis Log Method: 8082A Analyst: DWOOD Initial: RW

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
17 Apr 2017 15:45 pm	M041717a01.D	87PCB102416C	Instrument Blank 100pg/ul	.
17 Apr 2017 16:10 pm	M041717a02.D	87PCB062716I	PCB 1016/1260 Cont Cal 100 pg/uL	.
17 Apr 2017 16:34 pm	M041717a03.D	92O41717B1	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 16:59 pm	M041717a04.D	92O41717L1	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 17:24 pm	M041717a05.D	92O41717L2	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 17:48 pm	M041717a06.D	17154100	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 18:13 pm	M041717a07.D	17154101	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 18:38 pm	M041717a08.D	17154102	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 19:02 pm	M041717a09.D	17154103	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 19:27 pm	M041717a10.D	17154104	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 19:52 pm	M041717a11.D	17154105	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 20:16 pm	M041717a12.D	17154106	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 20:41 pm	M041717a13.D	17154107	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 21:06 pm	M041717a14.D	17154108	Sky Valley PCB Wipe 10mL fv	.
17 Apr 2017 21:30 pm	M041717a15.D	87PCB102416C	Instrument Blank 100pg/ul	.
17 Apr 2017 21:55 pm	M041717a16.D	87PCB062716I	PCB 1016/1260 Cont Cal 100 pg/uL	.

Analysis Log Method: 8082A Analyst: DWOOD Initial: hw

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
18 Apr 2017 13:22 pm	M041817a01.D	87PCB102416C	Instrument Blank 100pg/ul	.
18 Apr 2017 13:47 pm	M041817a02.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.
18 Apr 2017 14:12 pm	M041817a03.D	17154103	Sky Valley PCB Wipe 10mL fv	.
18 Apr 2017 14:36 pm	M041817a04.D	17154108	Sky Valley PCB Wipe 10mL fv	.
18 Apr 2017 15:01 pm	M041817a05.D	17154108	Sky Valley PCB Wipe 10mL fv	.
18 Apr 2017 15:26 pm	M041817a06.D	87PCB102416C	Instrument Blank 100pg/ul	.
18 Apr 2017 15:50 pm	M041817a07.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.

PCBs as Aroclors Control Limts

Oil/Wipe

PCBs
Method 3580A/8082A
SOP Or_P042A/Or_A8082A

Spike = 200 or 400pg/uL for Target Compounds
Spike = 50 or 100pg/uL for Surrogate Compounds
Initial Weight = 0.25g nominal (oil), no unit (wipe)
Final Volume = 10mL or 100mL

Analysis dates 2/18/16 - 9/8/16

				Limits		
Targets*	**n**	**avgerage**	**std. dev.**	**-3σ**	**+3σ**	**RPD**
PCB-1016	16	92	12	54	129	30
PCB-1260	16	92	13	52	131	30
Surrogates**						
TCMX (tetrachloro-meta-xylene)	53	85	15	39	131	
DCB (decachlorobiphenyl)	52	82	16	35	130	

Compiled from all targets for idoc, LCS/LCSD and MS/MSD analyses during the specified time frame.

****Compiled from all surrogates for idoc, LCS/LCSD, MS/MSD, Blank and sample analyses during the specified time frame.***

- ICAL Packet
  a. WWCAL (COD, %D summaries) (@Cmd Line – WWCAL)
  b. Macro Reports (Macro – ICAL Reports)
     i. Residual summary (-Print Accuracy)
     ii. Macro COD/%D report (- Include RF Report)
     iii. Accuracy of RTs (- Include RT)
     iv. Curves (- Print Curves)
  c. Individual Standards comprising curve
     i. Quan Report (Quant – Generate Report – Summary)
     ii. Peak Graphics (@Cmd Line – Thumbnail or Multithumb)
  d. SSCV
     i. %D Summary Report (Custom/Excel Report)
     ii. Quan Report (Quant – Generate Report – Summary)
     iii. Peak Graphics (@Cmd Line – Thumbnail)

Analysis Log Method: Analyst: DWOOD Initial:

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
21 Mar 2017 3:40 pm	M032117a01.D	10161260condition5000	condition 1016/1260 2500 pg/uL	.
21 Mar 2017 4:04 pm	M032117a02.D	87PCB102416C	Instrument Blank 100pg/ul	.
21 Mar 2017 4:29 pm	M032117a03.D	87PCB062716B	PCB 1016/1260 ICAL 25 pg/uL	.
21 Mar 2017 4:54 pm	M032117a04.D	87PCB062716C	PCB 1016/1260 ICAL 50 pg/uL	.
21 Mar 2017 5:18 pm	M032117a05.D	87PCB062716I	PCB 1016/1260 ICAL 100 pg/uL	.
21 Mar 2017 5:43 pm	M032117a06.D	87PCB062716E	PCB 1016/1260 ICAL 250 pg/uL	.
21 Mar 2017 6:08 pm	M032117a07.D	87PCB062716F	PCB 1016/1260 ICAL 500 pg/uL	.
21 Mar 2017 6:32 pm	M032117a08.D	87PCB062716G	PCB 1016/1260 ICAL 1000 pg/uL	.
21 Mar 2017 6:57 pm	M032117a09.D	87PCB062716H	PCB 1016/1260 ICAL 2500 pg/uL	.
21 Mar 2017 7:22 pm	M032117a10.D	87PCB081916I	SSV 1016 100pg/uL	.
21 Mar 2017 7:46 pm	M032117a11.D	87PCB081916K	SSV 1260 100pg/uL	.
21 Mar 2017 8:11 pm	M032117a12.D	87PCB110116A	SSV 1221 200pg/uL	.
21 Mar 2017 8:36 pm	M032117a13.D	87PCB110116B	SSV 1232 100pg/uL	.
21 Mar 2017 9:00 pm	M032117a14.D	87PCB110116C	SSV 1242 100pg/uL	.
21 Mar 2017 9:25 pm	M032117a15.D	87PCB110116D	SSV 1248 100pg/uL	.
21 Mar 2017 9:50 pm	M032117a16.D	87PCB110116E	SSV 1254 100pg/uL	.

Calibration Status Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M032117PCB1260_41717.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Tue Apr 18 12:22:05 2017
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	2500	250	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a09.D
2	1000	100	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a08.D
3	500	50	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a07.D
4	250	25	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a06.D
5	100	10	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a05.D
6	50	5	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a04.D
7	25	3	0	J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a03.D

#	ID	Update Time	Quant Time	Acquisition Time
1	2500	Apr 18 12:18 2017	Apr 18 11:00 2017	21 Mar 2017 18:57 pm
2	1000	Apr 18 12:18 2017	Apr 18 11:00 2017	21 Mar 2017 18:32 pm
3	500	Apr 18 12:18 2017	Apr 18 11:00 2017	21 Mar 2017 18:08 pm
4	250	Apr 18 12:18 2017	Apr 18 11:00 2017	21 Mar 2017 17:43 pm
5	100	Apr 18 12:18 2017	Apr 18 11:00 2017	21 Mar 2017 17:18 pm
6	50	Apr 18 12:18 2017	Apr 18 11:00 2017	21 Mar 2017 16:54 pm
7	25	Apr 18 12:18 2017	Apr 18 11:00 2017	21 Mar 2017 16:29 pm

M032117PCB1260_41717.M Mon Apr 24 13:58:44 2017

Calibration Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M032117PCB1260_41717.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Tue Apr 18 12:22:05 2017
Response Via : Initial Calibration

Calibration Files
2500=M032117a09 1000=M032117a08 500 =M032117a07 250 =M032117a06 100 =M032117a05
50 =M032117a04 25 =M032117a03

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S1	tmx (1)	Lin	1.3233 e4	2.6338 e4	-----	0.9961
2) L1	1016 -1	Quad	3.8440 e3	4.9528 e2	-0.1123	0.9979
3) L1	1016-2	Lin	7.0689 e3	5.5758 e2	-----	0.9906
4) L1	1016-3	Lin	7.9219 e3	7.0385 e2	-----	0.9931
5) L1	1016-4	Lin	4.0602 e3	4.7166 e2	-----	0.9916
6) L1	1016-5	Quad	9.1132 e2	1.8606 e2	-0.0556	0.9988
7) L2	1260-1	Lin	1.1880 e4	9.2184 e2	-----	0.9921
8) L2	1260-2	Lin	9.7014 e3	4.7695 e2	-----	0.9926
9) L2	1260-3	Quad	2.9687 e3	5.9252 e2	-0.1590	0.9994
10) L2	1260-4	Lin	5.6485 e3	5.8794 e2	-----	0.9914
11) L2	1260-5	Lin	6.3313 e3	5.6795 e2	-----	0.9922
12) S1	dcb	Lin	1.8367 e4	1.4529 e4	-----	0.9946

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
14) S2	tmx (1) #2	Lin	3.5865 e4	4.0835 e4	-----	0.9936
15) L1	1016 -1 #2	Lin	4.3058 e3	8.0124 e2	-----	0.9931
16) L1	1016-2 #2	Quad	4.1038 e3	1.4388 e3	-0.2346	0.9966
17) L1	1016-3 #2	Lin	1.8711 e3	1.9397 e3	-----	0.9927
18) L1	1016-4 #2	Lin	2.4890 e3	1.1079 e3	-----	0.9953
19) L1	1016-5 #2	Lin	1.1064 e3	8.0247 e2	-----	0.9944
20) L2	1260-1 #2	Lin	-6.2881 e2	4.0479 e2	-----	0.9965
21) L2	1260-2 #2	Lin	1.7401 e3	8.3305 e2	-----	0.9948
22) L2	1260-3 #2	Lin	-6.5944 e1	6.9702 e2	-----	0.9962
23) L2	1260-4 #2	Lin	-2.1897 e2	3.6034 e2	-----	0.9959
24) L2	1260-5 #2	Lin	-3.3853 e2	8.1934 e2	-----	0.9928
25) S2	dcb #2	Lin	5.1091 e3	2.3813 e4	-----	0.9939

M032117PCB1260_41717.M Mon Apr 24 13:58:19 2017

Compound List Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M032117PCB1260_41717.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Tue Apr 18 12:22:05 2017
Response Via : Initial Calibration

Total Cpnds : 25

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	tmx (1)	6.986	1.000	L	H	R
2	L1	1016 -1	7.596	1.000	Q	H	R
3	L1	1016-2	8.659	1.000	L	H	R
4	L1	1016-3	9.314	1.000	L	H	R
5	L1	1016-4	9.457	1.000	L	H	R
6	L1	1016-5	9.560	1.000	Q	H	R
7	L2	1260-1	13.794	1.000	L	H	R
8	L2	1260-2	13.893	1.000	L	H	R
9	L2	1260-3	15.480	1.000	Q	H	R
10	L2	1260-4	15.584	1.000	L	H	R
11	L2	1260-5	16.497	1.000	L	H	R
12	S	dcb	17.785	1.000	L	H	R
13	L2	Signal #2	0.000	1.000	L	H	R
14	S	tmx (1) #2	4.799	1.000	L	H	R
15	L1	1016 -1 #2	5.343	1.000	L	H	R
16	L1	1016-2 #2	5.807	1.000	Q	H	R
17	L1	1016-3 #2	6.421	1.000	L	H	R
18	L1	1016-4 #2	6.596	1.000	L	H	R
19	L1	1016-5 #2	6.680	1.000	L	H	R
20	L2	1260-1 #2	10.548	1.000	L	H	R
21	L2	1260-2 #2	11.454	1.000	L	H	R
22	L2	1260-3 #2	11.531	1.000	L	H	R
23	L2	1260-4 #2	12.008	1.000	L	H	R
24	L2	1260-5 #2	12.463	1.000	L	H	R
25	S	dcb #2	13.284	1.000	L	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

M032117PCB1260_41717.M Mon Apr 24 13:58:32 2017

ICAL Series	M032117a09.D		through	M032117a03.D			
Last Calibration Update	Tue Apr 18 12:22:05 2017						
	2500.000	1000.000	500.000	250.000	100.000	50.000	25.000
Analyte	%Difference from expected						
tmx (1)	-6.0	-4.6	3.9	9.4	-1.3	-1.6	0.2
1016 -1		1.4	-4.8	6.2	-3.1	0.2	0.3
1016-2		-12.1	-2.6	9.0	4.9	5.1	-4.2
1016-3		-10.3	-2.5	8.0	4.2	4.1	-3.5
1016-4		-10.3	-4.1	8.3	4.4	6.3	-4.6
1016-5		1.9	-4.0	3.6	-1.3	0.3	
1260-1		-11.3	-2.0	7.4	5.0	5.2	-4.2
1260-2		-5.9	4.6	13.2	6.9	4.2	***-23.0***
1260-3		2.0	-3.6	2.1	-1.1	1.5	-0.6
1260-4		-11.2	-3.2	9.5	6.4	1.4	-2.79
1260-5		-11.1	-2.3	9.9	3.8	2.4	-2.7
dcb	-6.3	-8.4	2.0	7.8	4.7	4.0	-3.8
Signal #2							
tmx (1) #2	-5.0	3.3	9.9	***20.5***	1.3	-9.0	***-21.0***
1016 -1 #2		-10.1	-1.5	10.5	1.4	1.6	-1.9
1016-2 #2		-1.4	-0.6	7.9	-6.1	-1.5	1.6
1016-3 #2		-6.7	0.4	12.5	-4.8	-3.1	1.6
1016-4 #2		-7.6	0.6	9.4	-1.0	-1.9	0.4
1016-5 #2		-6.7	0.0	10.9	-2.6	-2.6	1.1
1260-1 #2		-5.3	-1.5	8.8	-0.4	-2.0	0.5
1260-2 #2		-5.7	-2.1	11.1	-1.5	-2.6	0.8
1260-3 #2		-5.0	-1.6	9.4	-1.1	-2.4	0.7
1260-4 #2		-2.5	0.8	8.0	-3.1	-6.4	3.2
1260-5 #2		-2.1	-0.4	11.5	-6.3	-6.4	3.7
dcb #2	-8.3	-3.6	2.3	12.4	0.3	-3.8	0.6

ICAL Series M032117a09.D through M032117a03.D
Last Calibration Update Tue Apr 18 12:22:05 2017

	Concentration		2500.000	1000.000	500.000	250.000	100.000	50.000	25.000
1	0 tmx (1)		235.0539	95.4092	51.9685	27.34734	9.869684	4.918206	2.504571
2	0 1016 -1	QUAD		1014.217	476.2155	265.4037	96.88607	50.10171	25.06739
3	0 1016-2			878.5577	486.907	272.5382	104.9191	52.5251	23.9445
4	0 1016-3			896.9753	487.4641	269.9587	104.2466	52.05639	24.11659
5	0 1016-4			897.1446	479.661	270.633	104.4354	53.13829	23.8471
6	0 1016-5	QUAD		1019.004	480.1634	258.9686	98.67131	50.13364	
7	0 1260-1			886.6437	489.7915	268.5801	104.9512	52.58971	23.95367
8	0 1260-2			940.7831	522.9774	282.9748	106.9138	52.09163	19.25982
9	0 1260-3	QUAD		1019.683	482.1321	255.2791	98.92064	50.7659	24.85725
10	0 1260-4			887.7163	483.8139	273.651	106.4368	50.68146	24.3014
11	0 1260-5			889.4045	488.5241	274.7255	103.8463	51.17731	24.31585
12	0 dcb		234.2393	91.64516	50.99901	26.94133	10.47	5.19755	2.406126
13	0 Signal #2								
14	0 tmx (1) #2		237.4834	103.2973	54.93838	30.12578	10.12948	4.549919	1.97592
15	0 1016 -1 #2			898.978	492.7097	276.1788	101.3527	50.79576	24.53605
16	0 1016-2 #2	QUAD		985.8499	497.2144	269.8141	93.94666	49.23244	25.38892
17	0 1016-3 #2			932.7891	502.2162	281.2123	95.24723	48.45922	25.40648
18	0 1016-4 #2			924.3783	502.9453	273.6079	99.03145	49.04111	25.10409
19	0 1016-5 #2			933.4138	499.7577	277.3332	97.36236	48.67667	25.26458
20	0 1260-1 #2			946.8232	492.4684	272.0921	99.57807	48.97887	25.11281
21	0 1260-2 #2			943.0728	489.5689	277.6481	98.48537	48.71495	25.20115
22	0 1260-3 #2			950.0328	491.8509	273.3845	98.91343	48.81674	25.18148
23	0 1260-4 #2			974.5409	504.0766	270.0613	96.89899	46.81157	25.79604
24	0 1260-5 #2			979.0679	497.9356	278.847	93.66189	46.80185	25.92542
25	0 dcb #2		229.1644	96.43812	51.17251	28.10481	10.02914	4.810143	2.515984

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 4:29 pm
Operator : DWOOD
Sample : 87PCB062716B
Misc : PCB 1016/1260 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:51:34 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.987	4.800	79199	116552	2.505	1.976
12) S2 dcb	17.784	13.284	53326	65022	2.406	2.516
Target Compounds						
2) L1 1016 -1	7.597	5.343	16189	23965	25.067	24.536
3) L1 1016-2	8.661	5.807	20420	40482	23.945	25.389
4) L1 1016-3	9.315	6.421	24896	51153	24.117	25.407
5) L1 1016-4	9.457	6.597	15308	30301	23.847	25.104
6) L1 1016-5	0.000	6.680	0	21381	N.D.	25.265 #
Sum 1016 -1			76813	167282	96.975	125.700
Average 1016 -1					24.244	25.140
7) L2 1260-1	13.795	10.549	33961	9536	23.954	25.113
8) L2 1260-2	13.895	11.455	18887	22734	19.260	25.201 #
9) L2 1260-3	15.480	11.532	17599	17486	24.857	25.181
10) L2 1260-4	15.585	12.010	19936	9076	24.301	25.796
11) L2 1260-5	16.497	12.464	20142	20903	24.316	25.925
Sum 1260-1			110525	79736	116.688	127.217
Average 1260-1					23.338	25.443

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

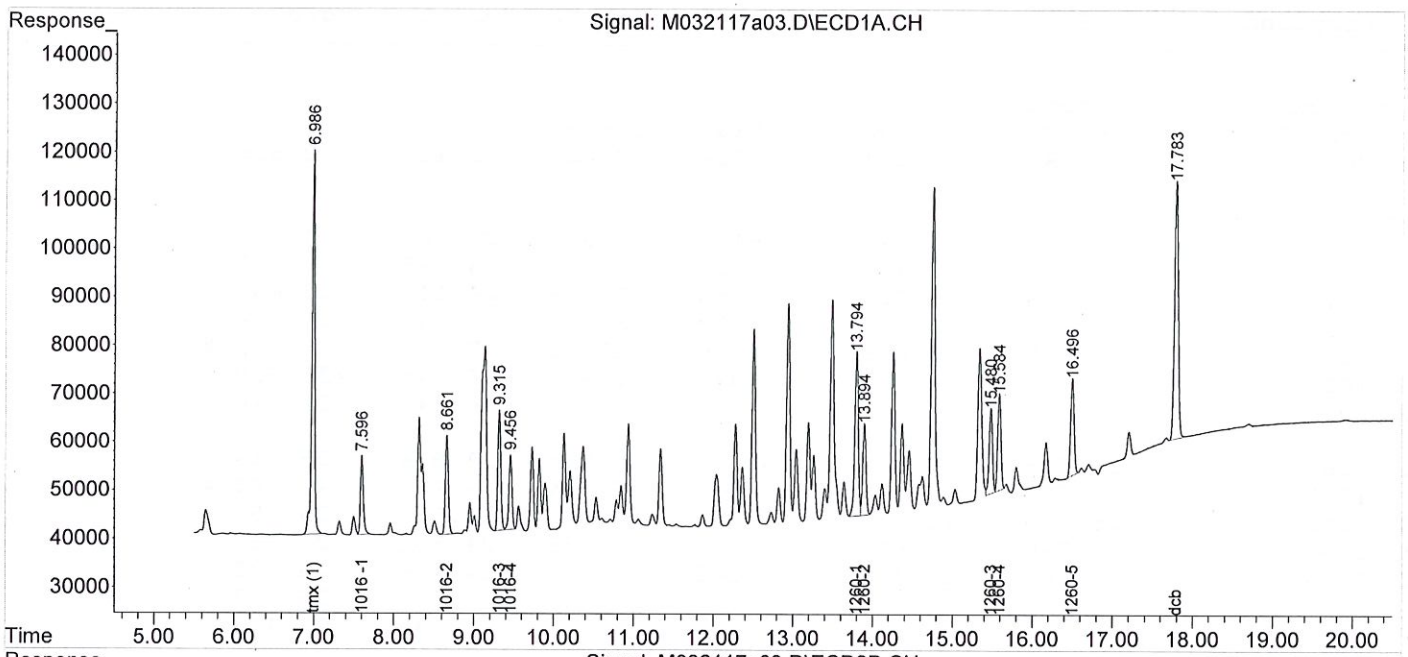
hw
4/24/17

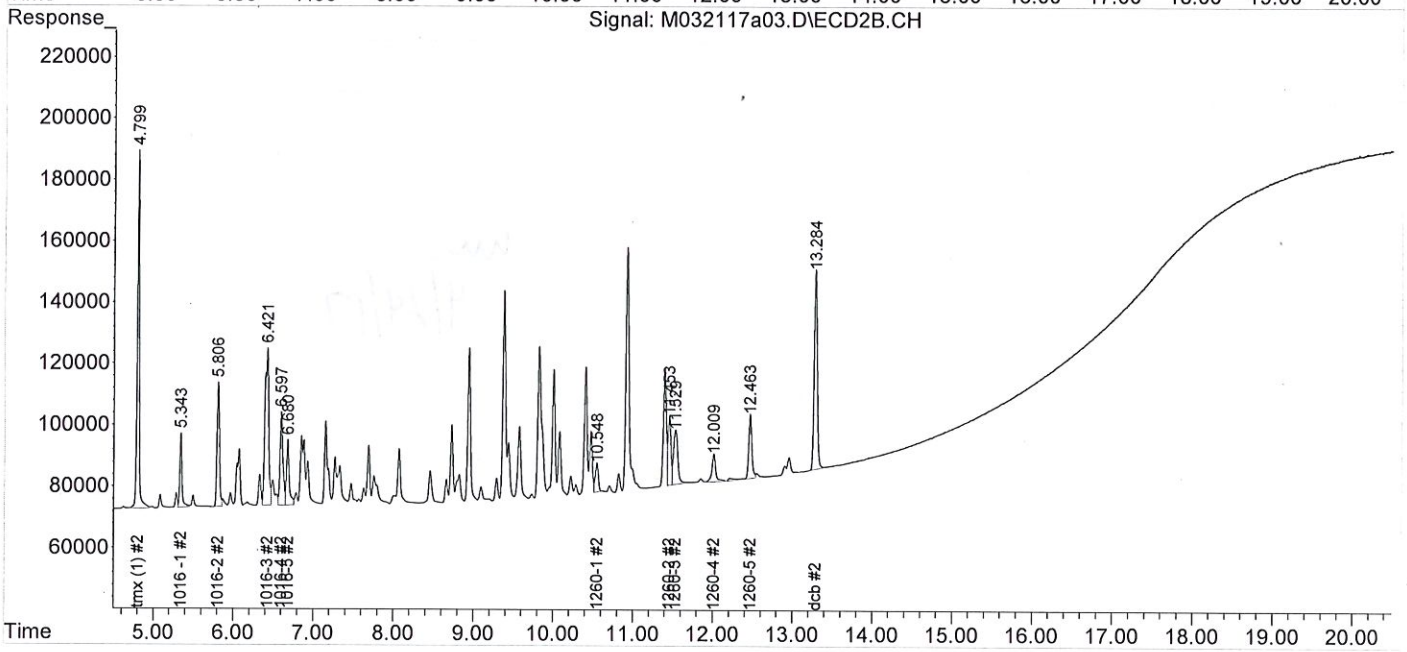
Quantitation Report (QT Reviewed)

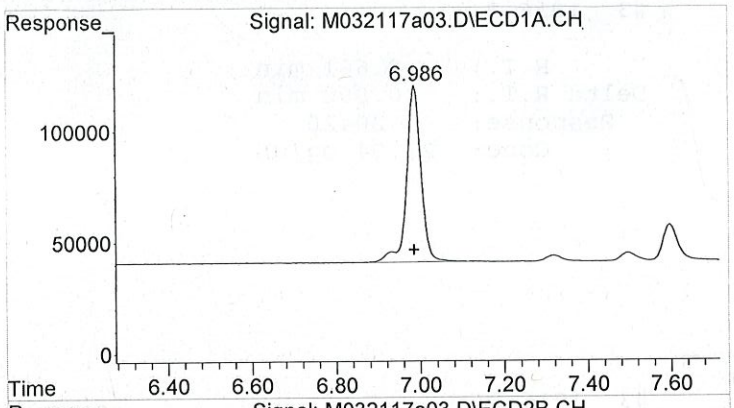
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 4:29 pm
Operator : DWOOD
Sample : 87PCB062716B
Misc : PCB 1016/1260 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:51:34 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

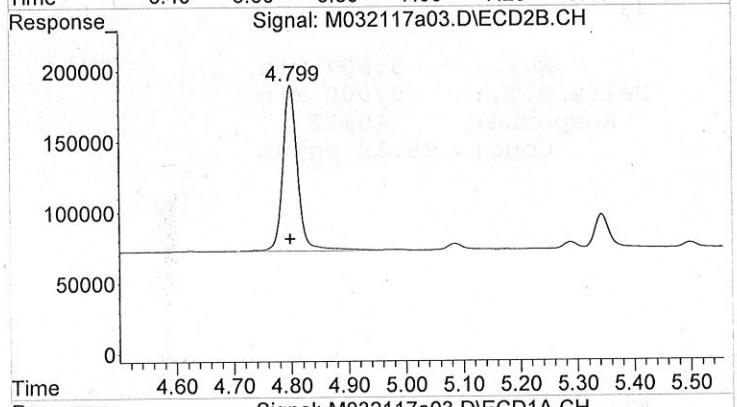






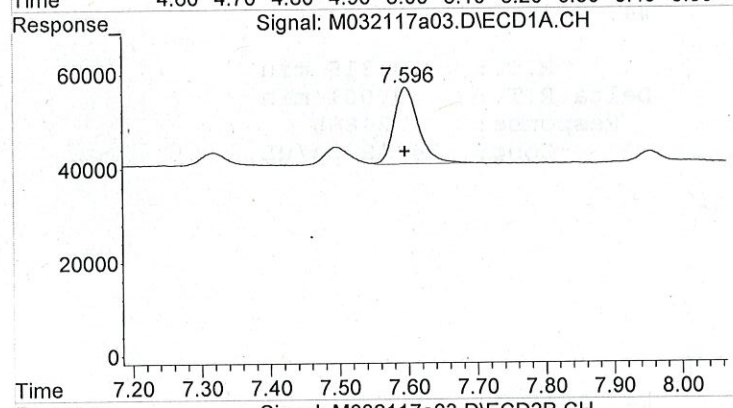
#1 tmx (1)

R.T.: 6.987 min
Delta R.T.: 0.000 min
Response: 79199
Conc: 2.50 pg/uL



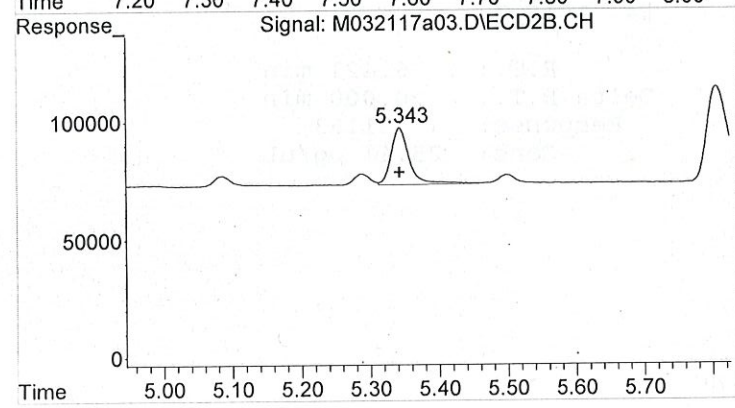
#1 tmx (1)

R.T.: 4.800 min
Delta R.T.: 0.000 min
Response: 116552
Conc: 1.98 pg/uL



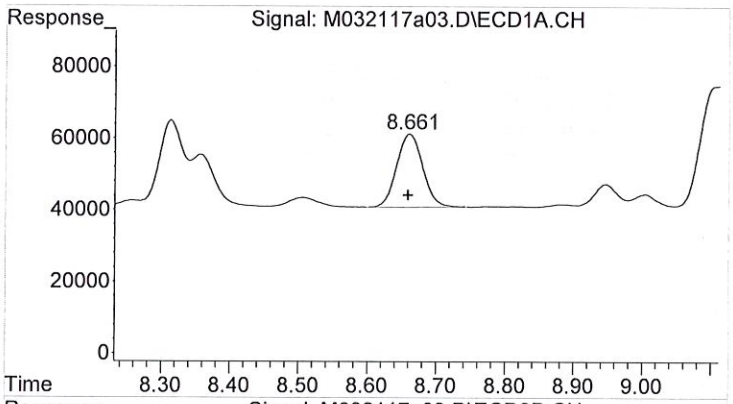
#2 1016 -1

R.T.: 7.597 min
Delta R.T.: 0.001 min
Response: 16189
Conc: 25.07 pg/uL



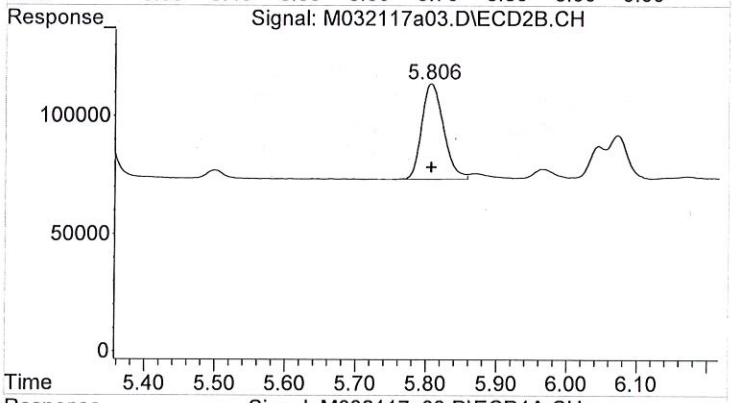
#2 1016 -1

R.T.: 5.343 min
Delta R.T.: 0.000 min
Response: 23965
Conc: 24.54 pg/uL



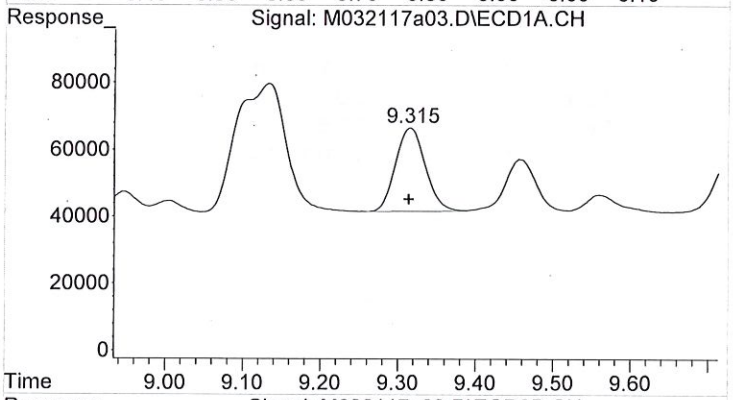
#3 1016-2

R.T.: 8.661 min
Delta R.T.: 0.002 min
Response: 20420
Conc: 23.94 pg/uL



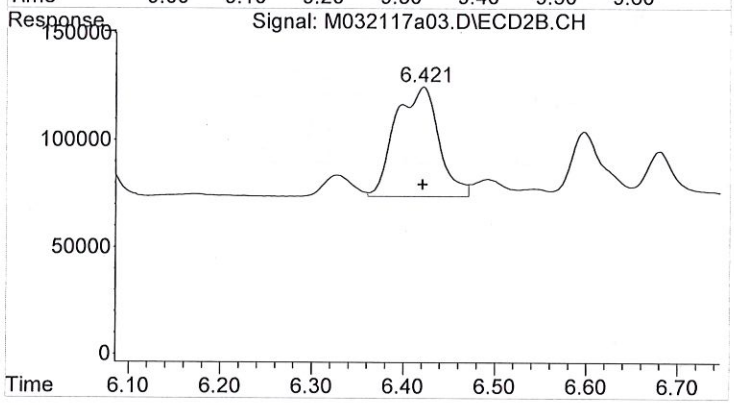
#3 1016-2

R.T.: 5.807 min
Delta R.T.: 0.000 min
Response: 40482
Conc: 25.39 pg/uL



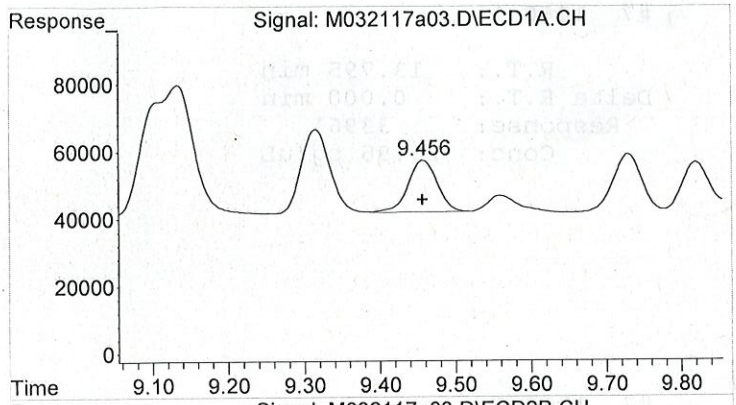
#4 1016-3

R.T.: 9.315 min
Delta R.T.: 0.001 min
Response: 24896
Conc: 24.12 pg/uL



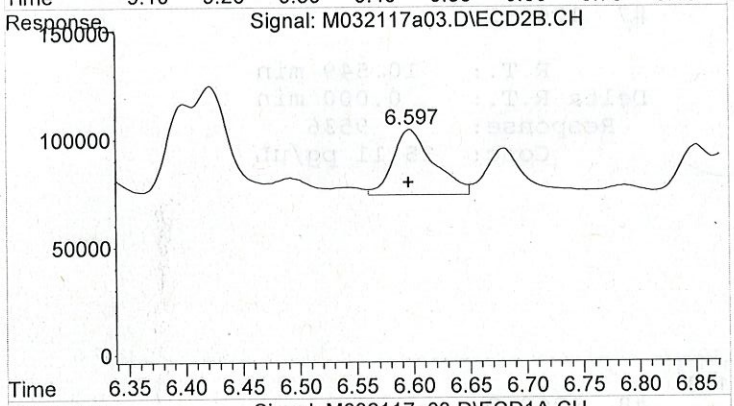
#4 1016-3

R.T.: 6.421 min
Delta R.T.: 0.000 min
Response: 51153
Conc: 25.41 pg/uL



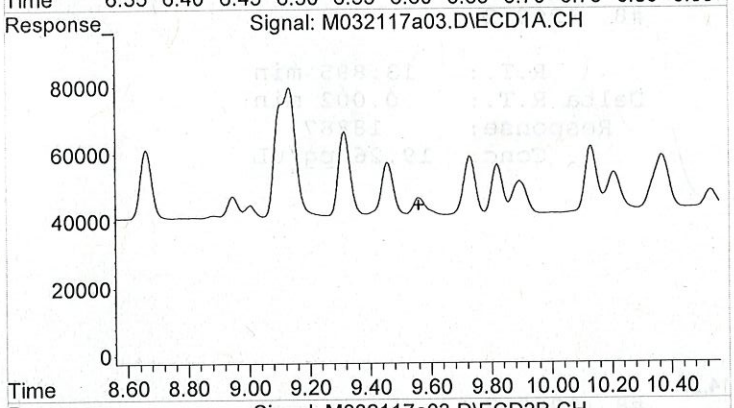
#5 1016-4

R.T.: 9.457 min
Delta R.T.: 0.000 min
Response: 15308
Conc: 23.85 pg/uL



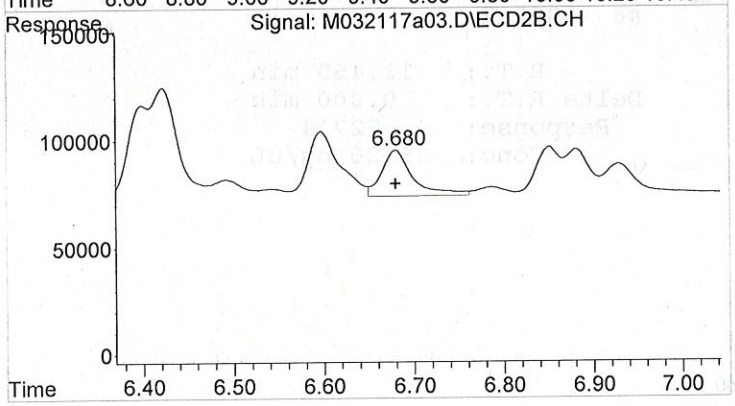
#5 1016-4

R.T.: 6.597 min
Delta R.T.: 0.001 min
Response: 30301
Conc: 25.10 pg/uL



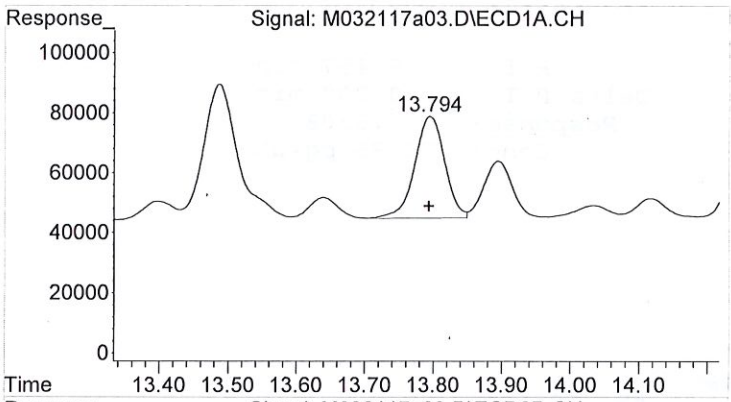
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



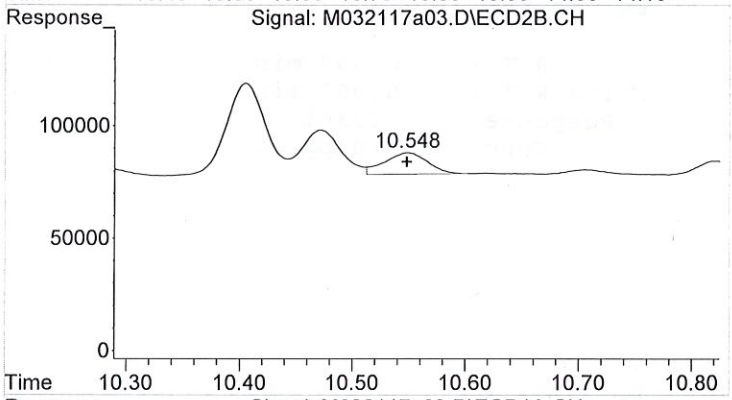
#6 1016-5

R.T.: 6.680 min
Delta R.T.: 0.000 min
Response: 21381
Conc: 25.26 pg/uL



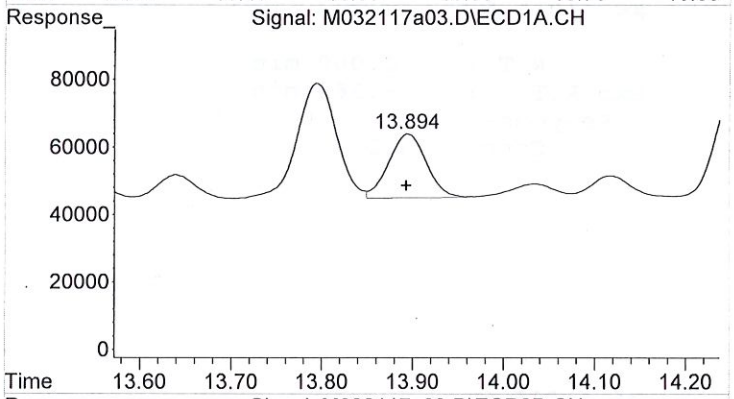
#7 1260-1

R.T.: 13.795 min
Delta R.T.: 0.000 min
Response: 33961
Conc: 23.95 pg/uL



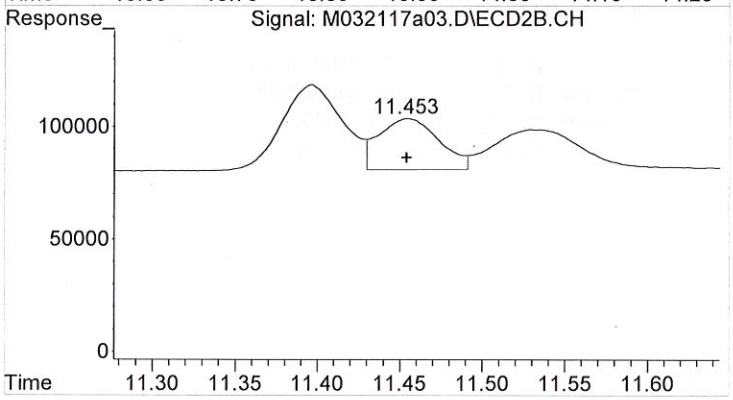
#7 1260-1

R.T.: 10.549 min
Delta R.T.: 0.000 min
Response: 9536
Conc: 25.11 pg/uL



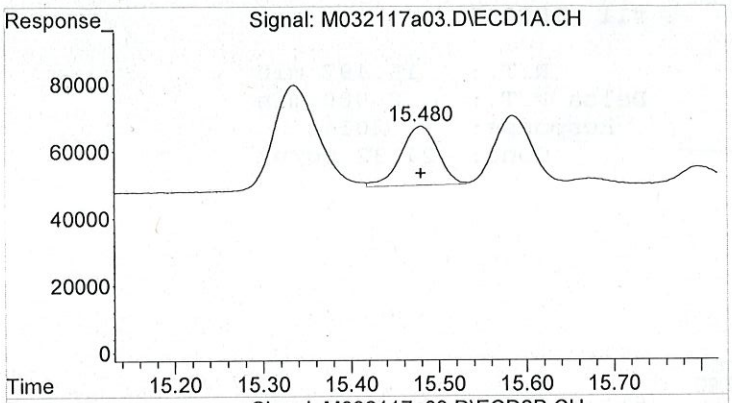
#8 1260-2

R.T.: 13.895 min
Delta R.T.: 0.002 min
Response: 18887
Conc: 19.26 pg/uL



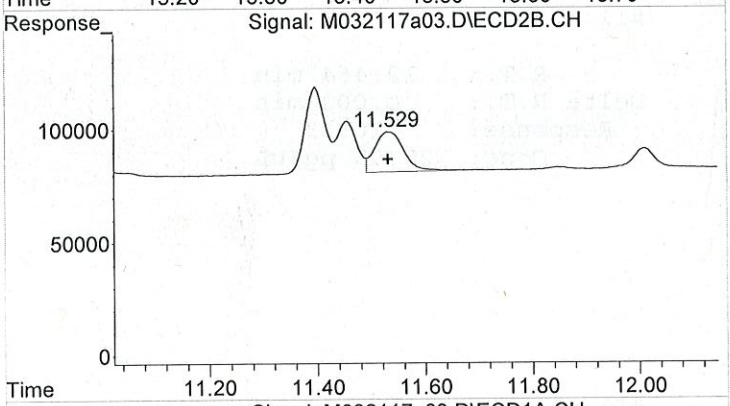
#8 1260-2

R.T.: 11.455 min
Delta R.T.: 0.000 min
Response: 22734
Conc: 25.20 pg/uL



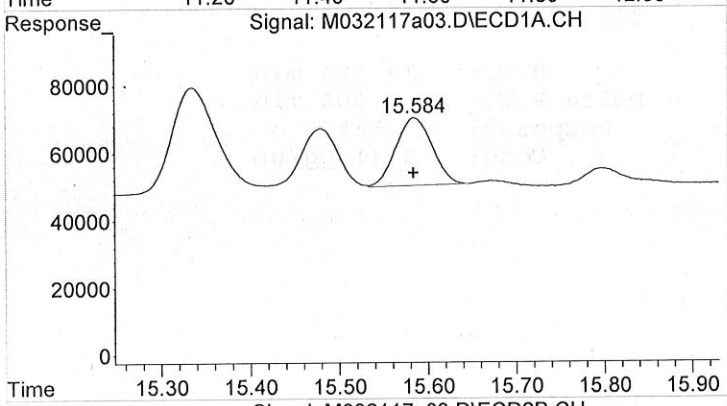
#9 1260-3

R.T.: 15.480 min
Delta R.T.: 0.000 min
Response: 17599
Conc: 24.86 pg/uL



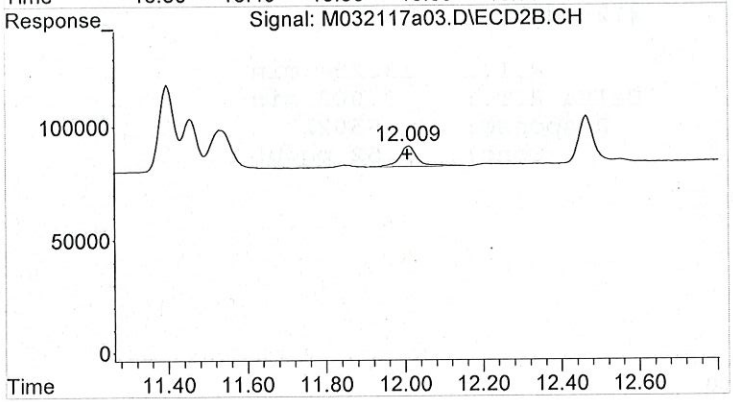
#9 1260-3

R.T.: 11.532 min
Delta R.T.: 0.001 min
Response: 17486
Conc: 25.18 pg/uL



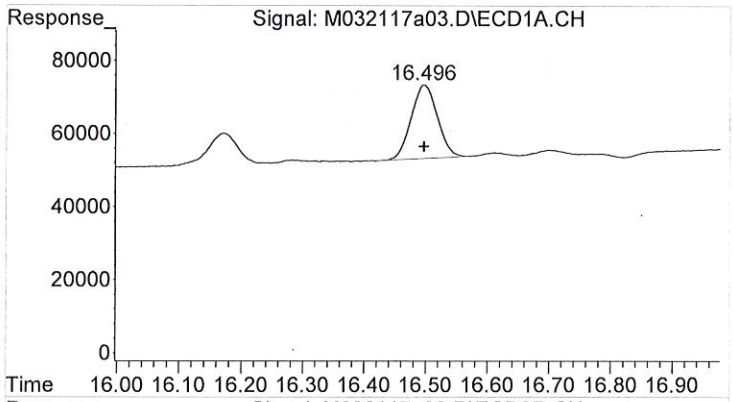
#10 1260-4

R.T.: 15.585 min
Delta R.T.: 0.001 min
Response: 19936
Conc: 24.30 pg/uL



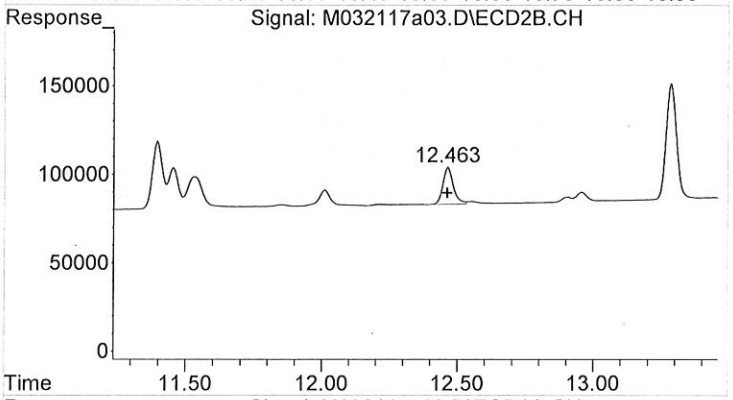
#10 1260-4

R.T.: 12.010 min
Delta R.T.: 0.002 min
Response: 9076
Conc: 25.80 pg/uL



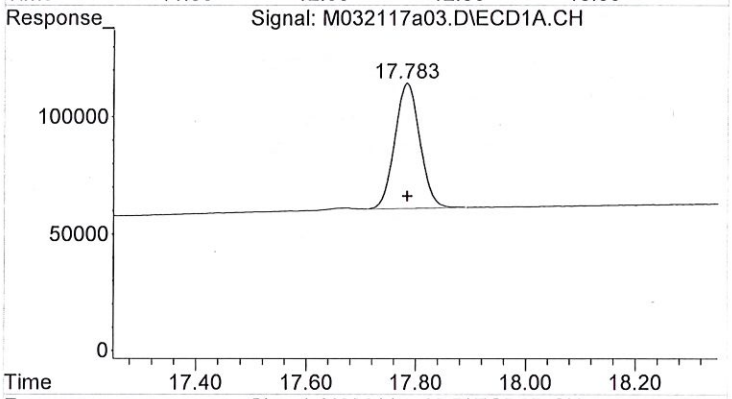
#11 1260-5

R.T.: 16.497 min
Delta R.T.: 0.000 min
Response: 20142
Conc: 24.32 pg/uL



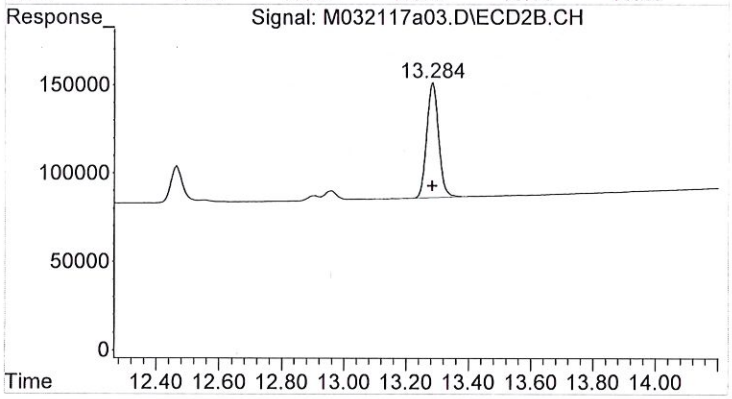
#11 1260-5

R.T.: 12.464 min
Delta R.T.: 0.000 min
Response: 20903
Conc: 25.93 pg/uL



#12 dcb

R.T.: 17.784 min
Delta R.T.: 0.000 min
Response: 53326
Conc: 2.41 pg/uL



#12 dcb

R.T.: 13.284 min
Delta R.T.: 0.000 min
Response: 65022
Conc: 2.52 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 16:54 pm
Operator : DWOOD
Sample : 87PCB062716C
Misc : PCB 1016/1260 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:00:10 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
	System Monitoring Compounds							
1)	S2 tmx (1)	6.986	4.800	142770	221662	4.918	4.550	
12)	S2 dcb	17.783	13.284	93883	119653	5.198	4.810	
	Target Compounds							
2)	L1 1016 -1	7.598	5.343	28377	45005	50.102	50.796	
3)	L1 1016-2	8.661	5.806	36356	74371	52.525	49.232	
4)	L1 1016-3	9.315	6.421	44562	95869	51.880	48.459	
5)	L1 1016-4	9.457	6.596	29124	56820	52.464	49.041	
6)	L1 1016-5	9.560	6.680	10100	40168	51.023	48.677	
	Sum 1016 -1			148518	312233	257.993	246.205	
	Average 1016 -1					51.599	49.241	
7)	L2 1260-1	13.794	10.550	60359	19197	43.031	7.665	#
8)	L2 1260-2	13.894	11.455	34546	42322	15.649	15.340	
9)	L2 1260-3	15.479	11.532	32639	33960	14.633	18.384	#
10)	L2 1260-4	15.583	12.010	35446	16649	28.988	7.040	#
11)	L2 1260-5	16.495	12.465	35398	38008	51.177	46.802	
	Sum 1260-1			198388	150137	153.477	95.230	
	Average 1260-1					30.695	19.046	

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

mw 4/18/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 4:54 pm
Operator : DWOOD
Sample : 87PCB062716C
Misc : PCB 1016/1260 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:51:41 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.986	4.800	142770	221662	4.918	4.550
12) S2 dcb	17.783	13.284	93883	119653	5.198	4.810
Target Compounds						
2) L1 1016 -1	7.598	5.343	28377	45005	50.102	50.796
3) L1 1016-2	8.661	5.806	36356	74371	52.525	49.232
4) L1 1016-3	9.315	6.421	44562	95869	52.056	48.459
5) L1 1016-4	9.457	6.596	29124	56820	53.138	49.041
6) L1 1016-5	9.560	6.680	10100	40168	50.134	48.677
Sum 1016 -1			148518	312233	257.955	246.205
Average 1016 -1					51.591	49.241
7) L2 1260-1	13.794	10.550	60359	19197	52.590	48.979
8) L2 1260-2	13.894	11.455	34546	42322	52.092	48.715
9) L2 1260-3	15.479	11.532	32639	33960	50.766	48.817
10) L2 1260-4	15.583	12.010	35446	16649	50.682	46.812
11) L2 1260-5	16.495	12.465	35398	38008	51.177	46.802
Sum 1260-1			198388	150137	257.306	240.124
Average 1260-1					51.461	48.025

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

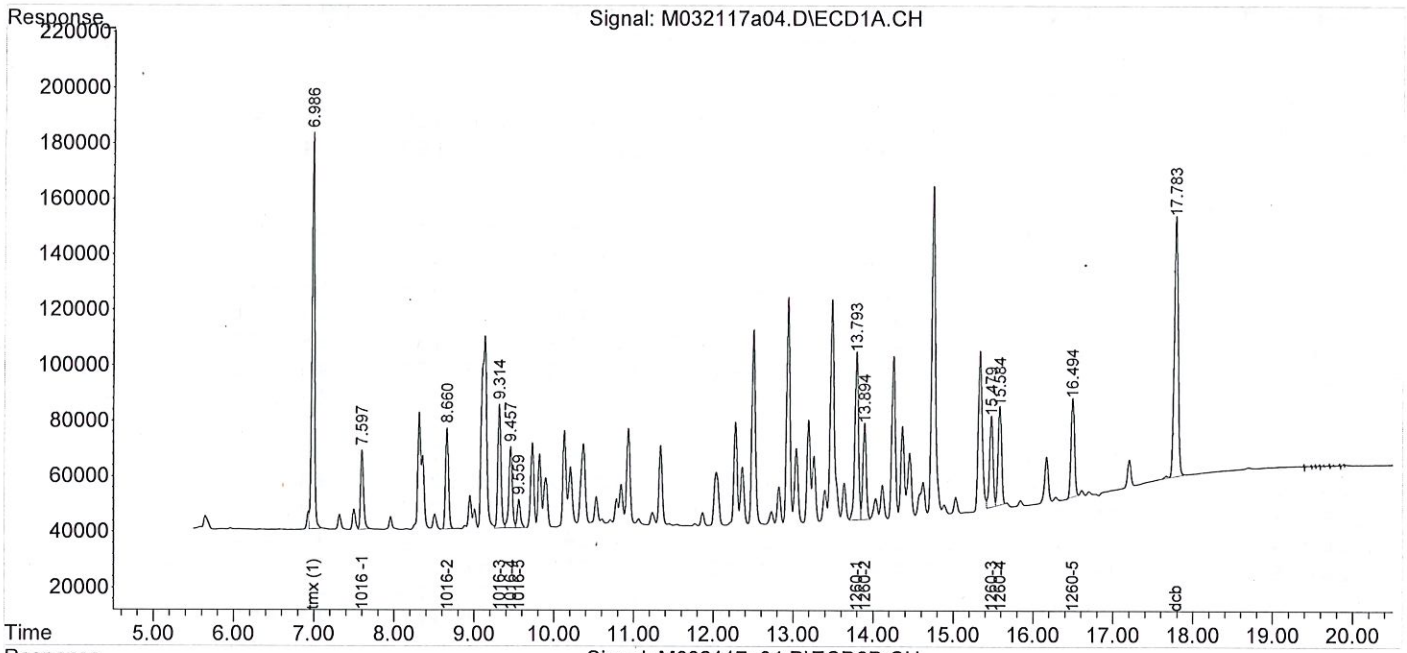
MW
4/24/17

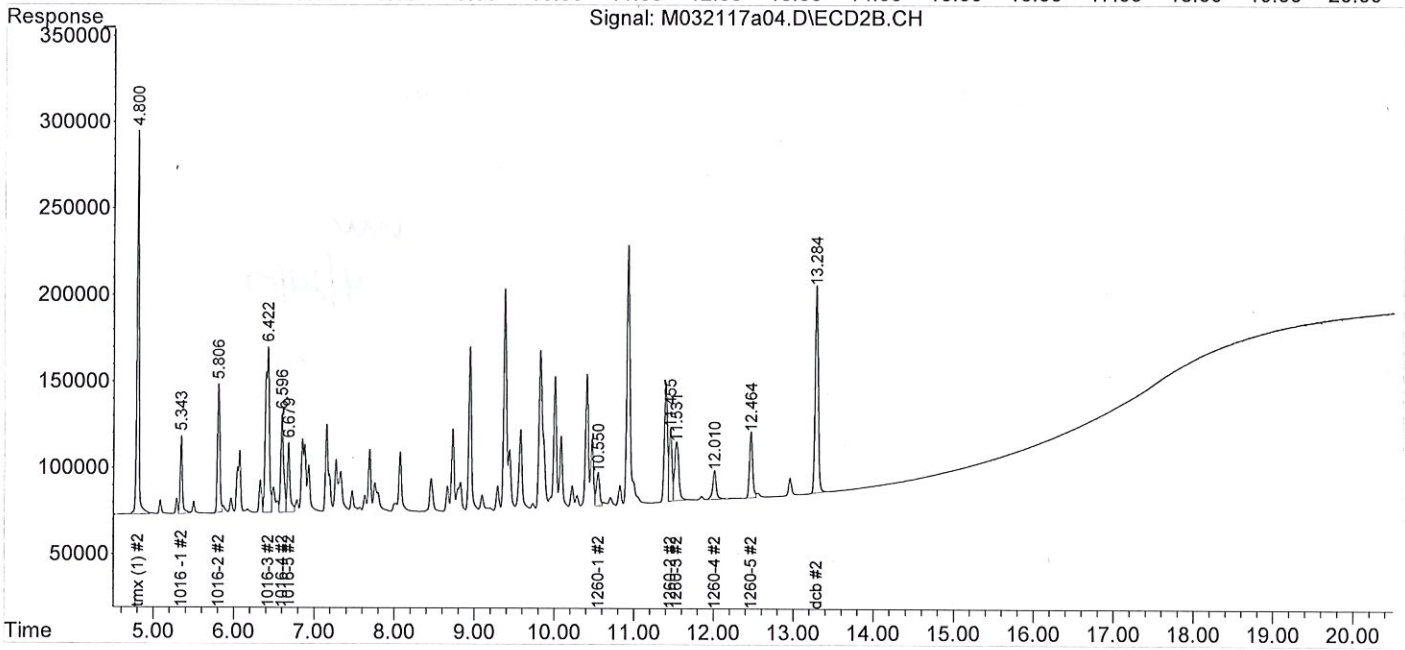
Quantitation Report (QT Reviewed)

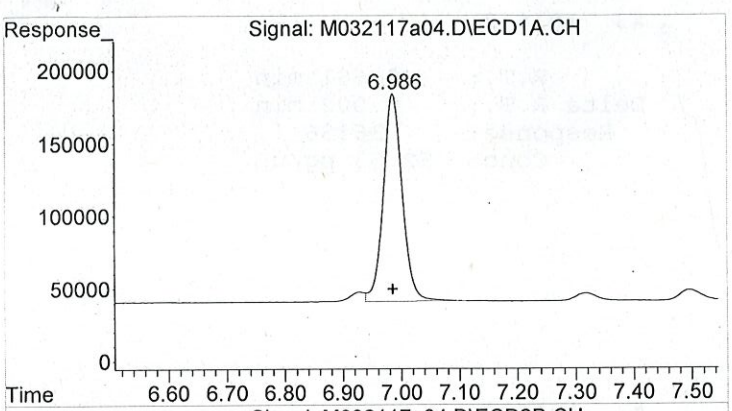
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 4:54 pm
Operator : DWOOD
Sample : 87PCB062716C
Misc : PCB 1016/1260 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:51:41 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

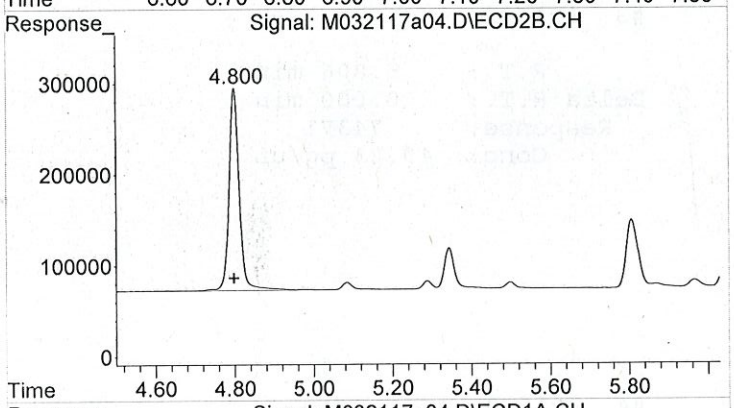






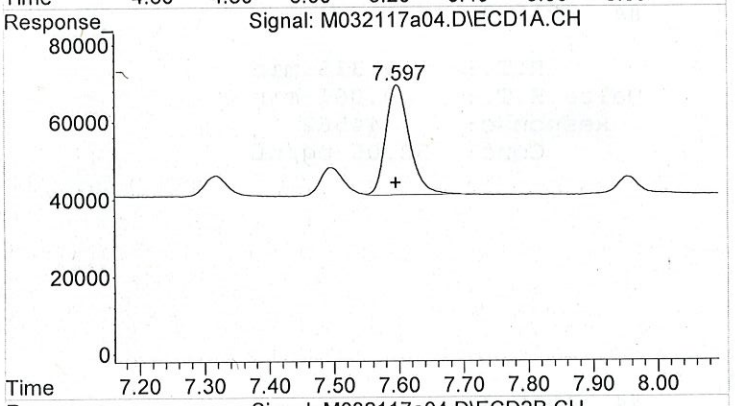
#1 tmx (1)

R.T.: 6.986 min
Delta R.T.: 0.000 min
Response: 142770
Conc: 4.92 pg/uL



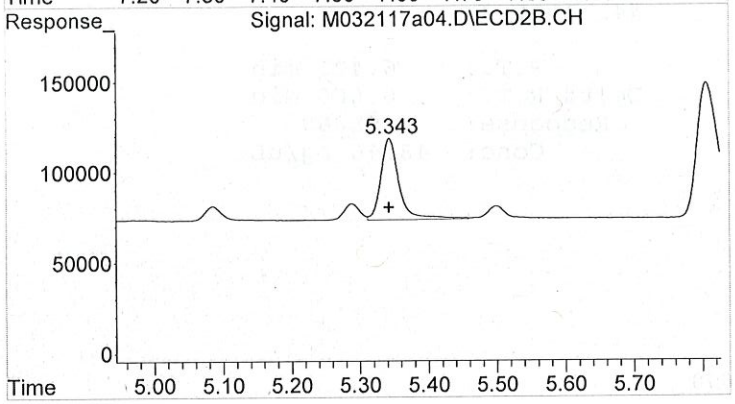
#1 tmx (1)

R.T.: 4.800 min
Delta R.T.: 0.001 min
Response: 221662
Conc: 4.55 pg/uL



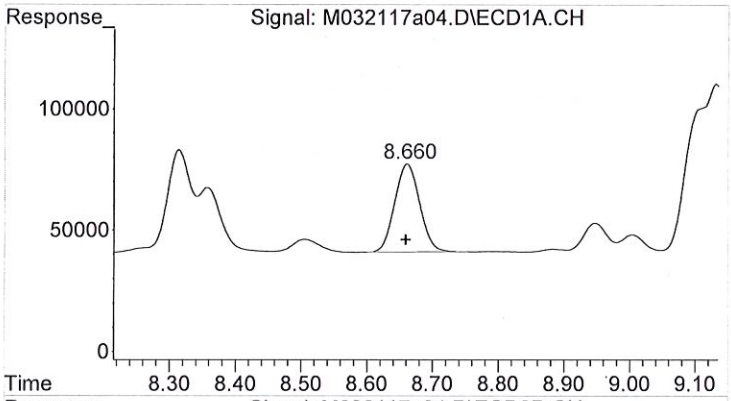
#2 1016 -1

R.T.: 7.598 min
Delta R.T.: 0.002 min
Response: 28377
Conc: 50.10 pg/uL



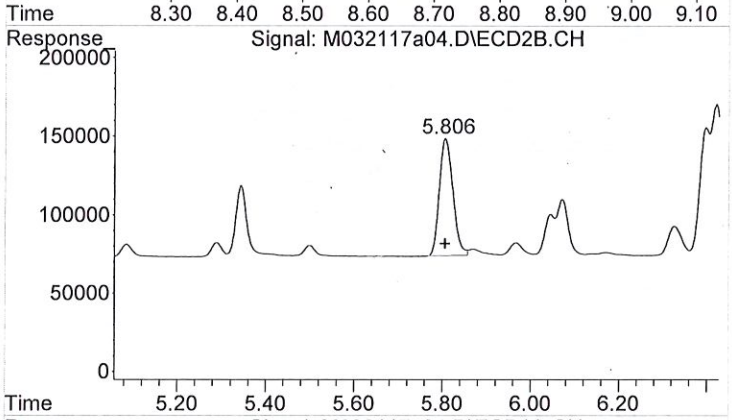
#2 1016 -1

R.T.: 5.343 min
Delta R.T.: 0.000 min
Response: 45005
Conc: 50.80 pg/uL



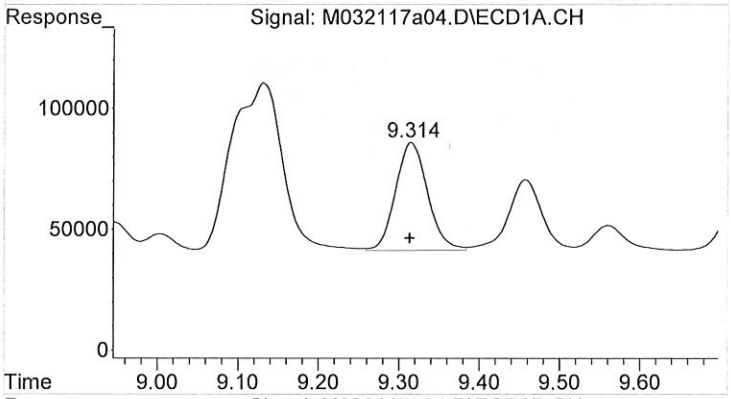
#3 1016-2

R.T.: 8.661 min
Delta R.T.: 0.002 min
Response: 36356
Conc: 52.53 pg/uL



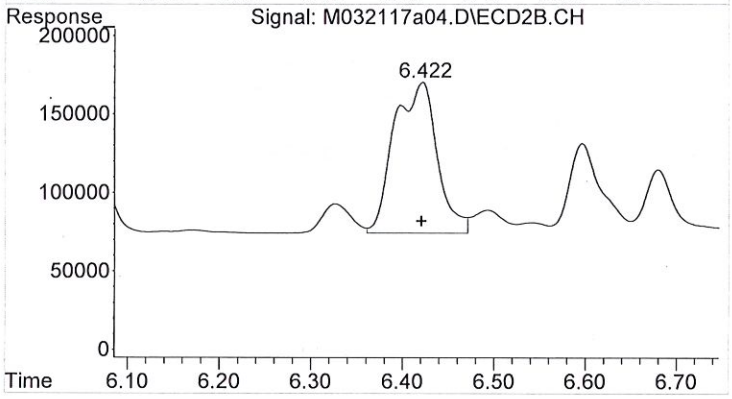
#3 1016-2

R.T.: 5.806 min
Delta R.T.: 0.000 min
Response: 74371
Conc: 49.23 pg/uL



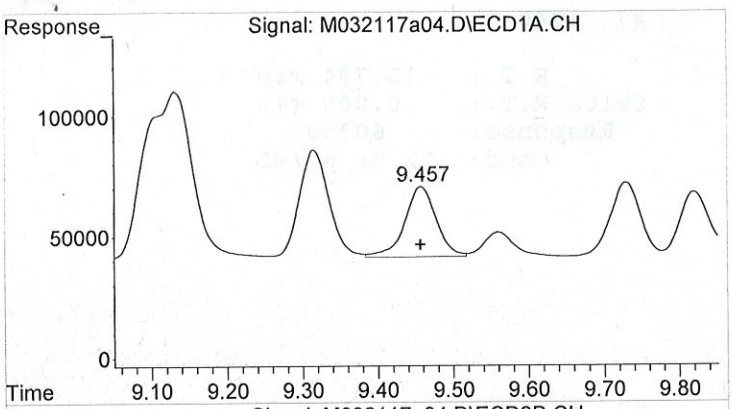
#4 1016-3

R.T.: 9.315 min
Delta R.T.: 0.001 min
Response: 44562
Conc: 52.06 pg/uL



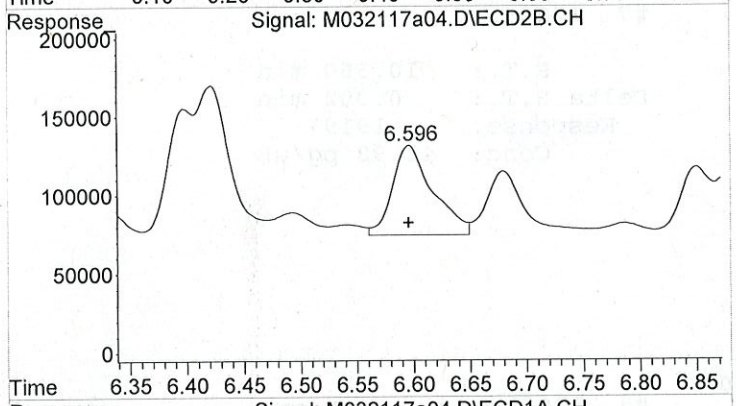
#4 1016-3

R.T.: 6.421 min
Delta R.T.: 0.000 min
Response: 95869
Conc: 48.46 pg/uL



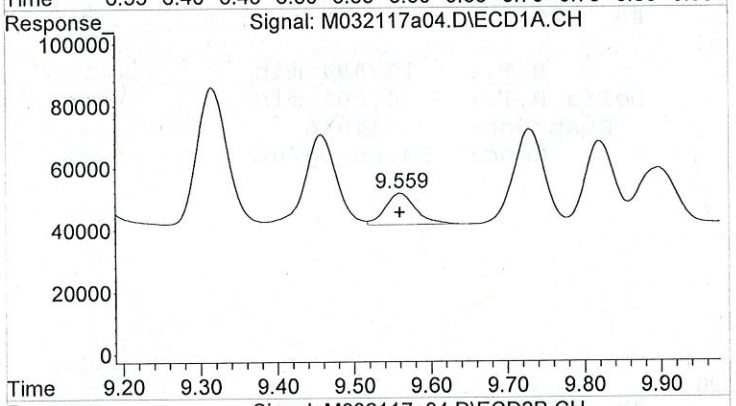
#5 1016-4

R.T.: 9.457 min
Delta R.T.: 0.000 min
Response: 29124
Conc: 53.14 pg/uL



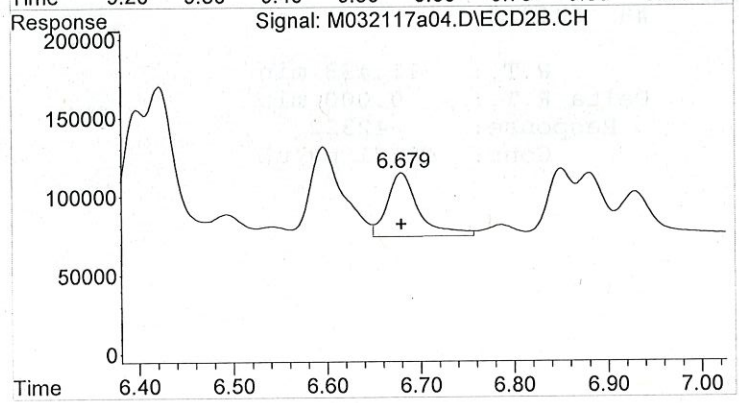
#5 1016-4

R.T.: 6.596 min
Delta R.T.: 0.000 min
Response: 56820
Conc: 49.04 pg/uL



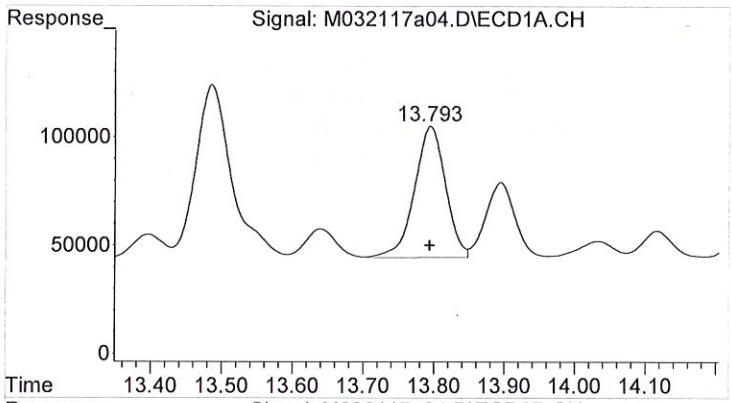
#6 1016-5

R.T.: 9.560 min
Delta R.T.: 0.000 min
Response: 10100
Conc: 50.13 pg/uL



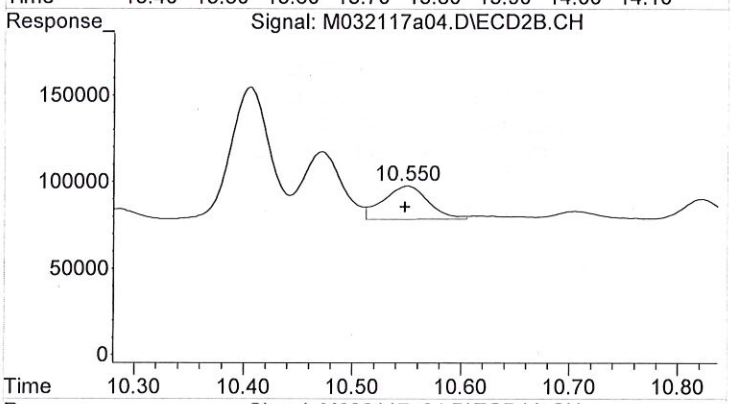
#6 1016-5

R.T.: 6.680 min
Delta R.T.: 0.000 min
Response: 40168
Conc: 48.68 pg/uL



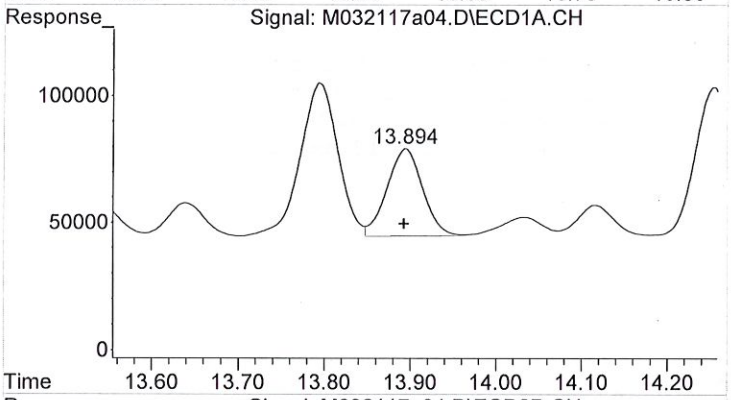
#7 1260-1

R.T.: 13.794 min
Delta R.T.: 0.000 min
Response: 60359
Conc: 52.59 pg/uL



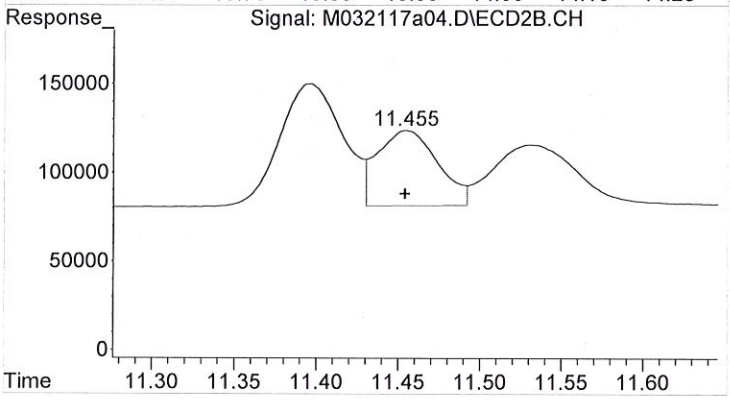
#7 1260-1

R.T.: 10.550 min
Delta R.T.: 0.002 min
Response: 19197
Conc: 48.98 pg/uL



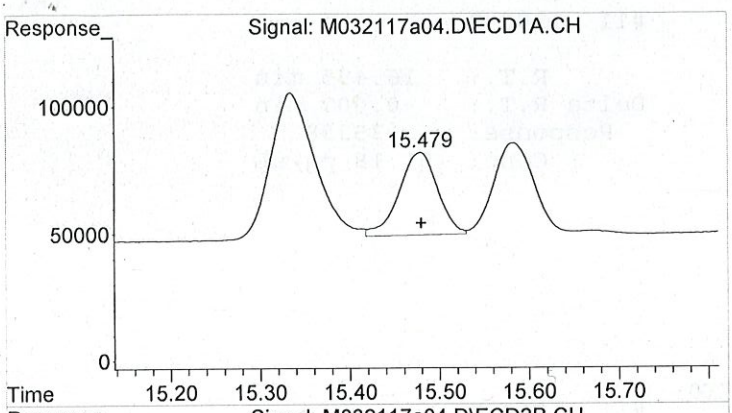
#8 1260-2

R.T.: 13.894 min
Delta R.T.: 0.001 min
Response: 34546
Conc: 52.09 pg/uL



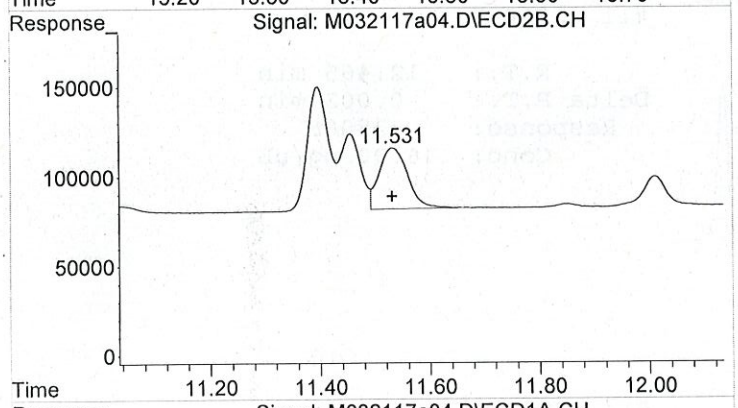
#8 1260-2

R.T.: 11.455 min
Delta R.T.: 0.000 min
Response: 42322
Conc: 48.71 pg/uL



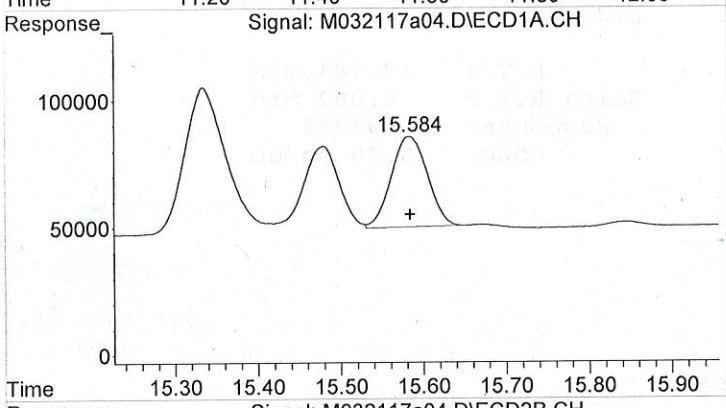
#9 1260-3

R.T.: 15.479 min
Delta R.T.: -0.001 min
Response: 32639
Conc: 50.77 pg/uL



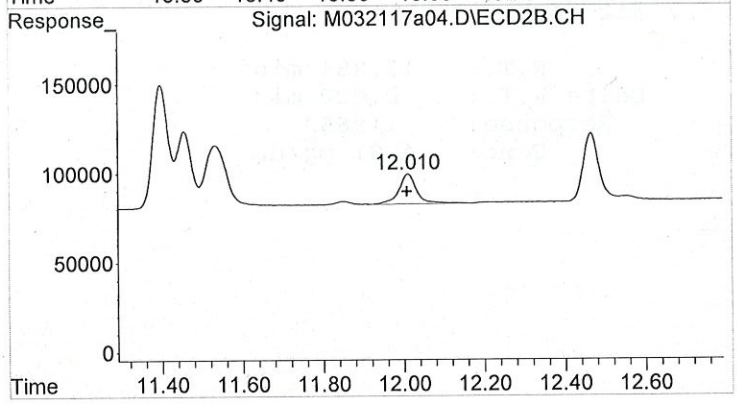
#9 1260-3

R.T.: 11.532 min
Delta R.T.: 0.000 min
Response: 33960
Conc: 48.82 pg/uL



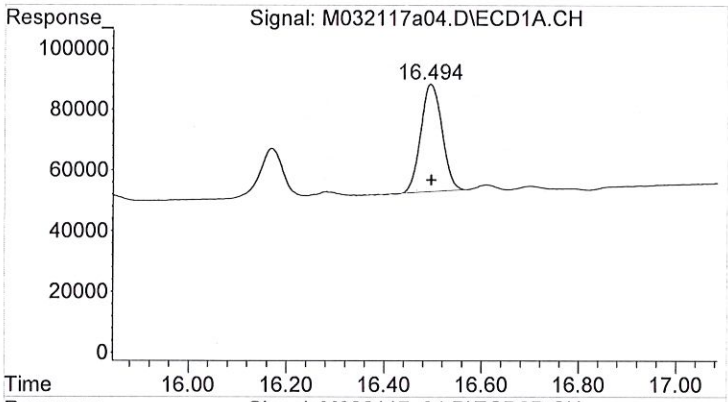
#10 1260-4

R.T.: 15.583 min
Delta R.T.: 0.000 min
Response: 35446
Conc: 50.68 pg/uL



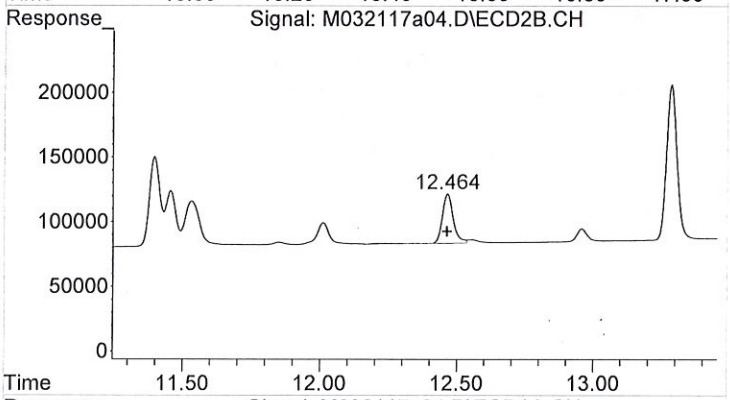
#10 1260-4

R.T.: 12.010 min
Delta R.T.: 0.002 min
Response: 16649
Conc: 46.81 pg/uL



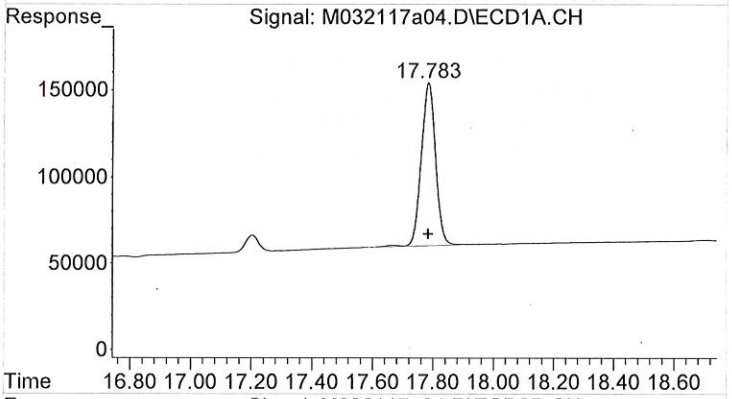
#11 1260-5

R.T.: 16.495 min
Delta R.T.: -0.002 min
Response: 35398
Conc: 51.18 pg/uL



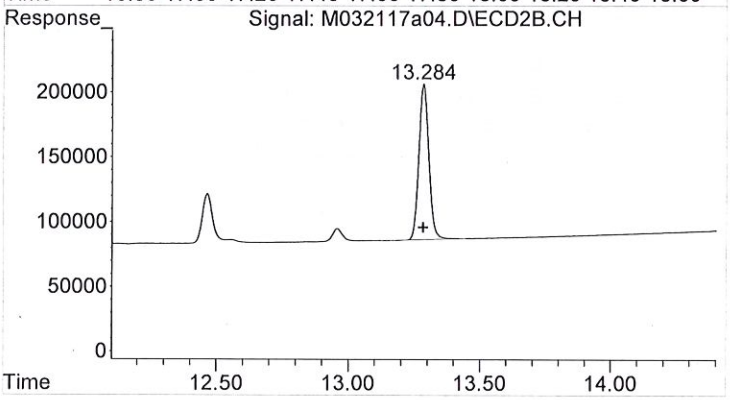
#11 1260-5

R.T.: 12.465 min
Delta R.T.: 0.002 min
Response: 38008
Conc: 46.80 pg/uL



#12 dcb

R.T.: 17.783 min
Delta R.T.: -0.002 min
Response: 93883
Conc: 5.20 pg/uL



#12 dcb

R.T.: 13.284 min
Delta R.T.: 0.000 min
Response: 119653
Conc: 4.81 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 16:29 pm
Operator : DWOOD
Sample : 87PCB062716B
Misc : PCB 1016/1260 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:00:05 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
	System Monitoring Compounds							
1)	S2 tmx (1)	6.987	4.800	79199	116552	2.505	1.976	
12)	S2 dcb	17.784	13.284	53326	65022	2.406	2.516	
	Target Compounds							
2)	L1 1016 -1	7.597	5.343	16189	23965	25.067	24.536	
3)	L1 1016-2	8.661	5.807	20420	40482	23.945	25.389	
4)	L1 1016-3	9.315	6.421	24896	51153	23.898	25.407	
5)	L1 1016-4	9.457	6.597	15308	30301	23.004	25.104	
6)	L1 1016-5	0.000	6.680	0	21381	N.D.	25.265	#
	Sum 1016 -1			76813	167282	95.913	125.700	
	Average 1016 -1					23.978	25.140	
7)	L2 1260-1	13.795	10.549	33961	9536	18.102	2.290	#
8)	L2 1260-2	13.895	11.455	18887	22734	3.165	7.748	#
9)	L2 1260-3	15.480	11.532	17599	17486	2.835	10.252	#
10)	L2 1260-4	15.585	12.010	19936	9076	11.562	4.785	#
11)	L2 1260-5	16.497	12.464	20142	20903	24.316	25.925	
	Sum 1260-1			110525	79736	59.979	51.001	
	Average 1260-1					11.996	10.200	

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

lw
4/18/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 5:18 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 5 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:51:48 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.986	4.799	273183	449505	9.870	10.129
12) S2 dcb	17.785	13.284	170486	243933	10.470	10.029
Target Compounds						
2) L1 1016 -1	7.596	5.343	50776	85514	96.886	101.353
3) L1 1016-2	8.659	5.807	65570	137204	104.919	93.946
4) L1 1016-3	9.314	6.421	81296	186625	104.247	95.248
5) L1 1016-4	9.457	6.596	53319	112203	104.436	99.031
6) L1 1016-5	9.560	6.680	18730	79237	98.671	97.362
Sum 1016 -1			269690	600782	509.159	486.940
Average 1016 -1					101.832	97.388
7) L2 1260-1	13.794	10.548	108628	39679	104.951	99.578
8) L2 1260-2	13.893	11.454	60694	83783	106.914	98.485
9) L2 1260-3	15.480	11.531	60025	68878	98.921	98.913
10) L2 1260-4	15.584	12.008	68227	34698	106.437	96.899
11) L2 1260-5	16.497	12.463	65311	76402	103.846	93.662
Sum 1260-1			362885	303441	521.068	487.538
Average 1260-1					104.214	97.508

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

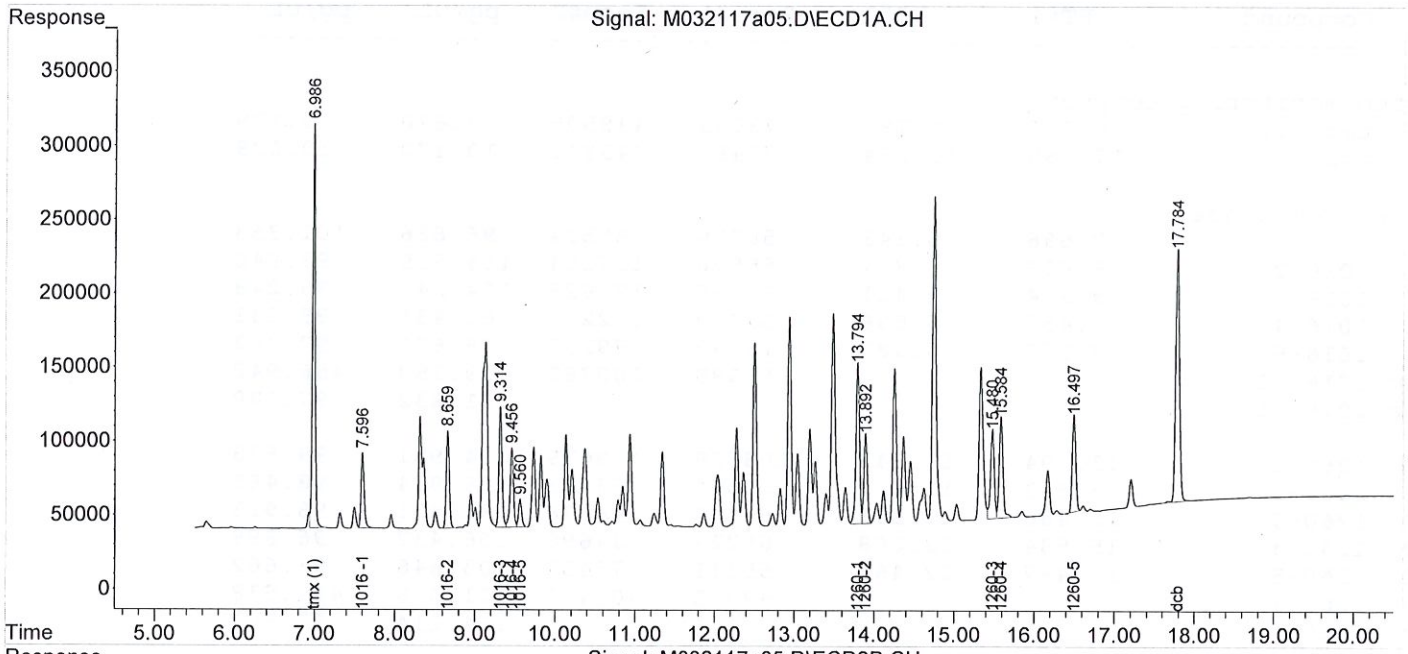
hw
4/24/17

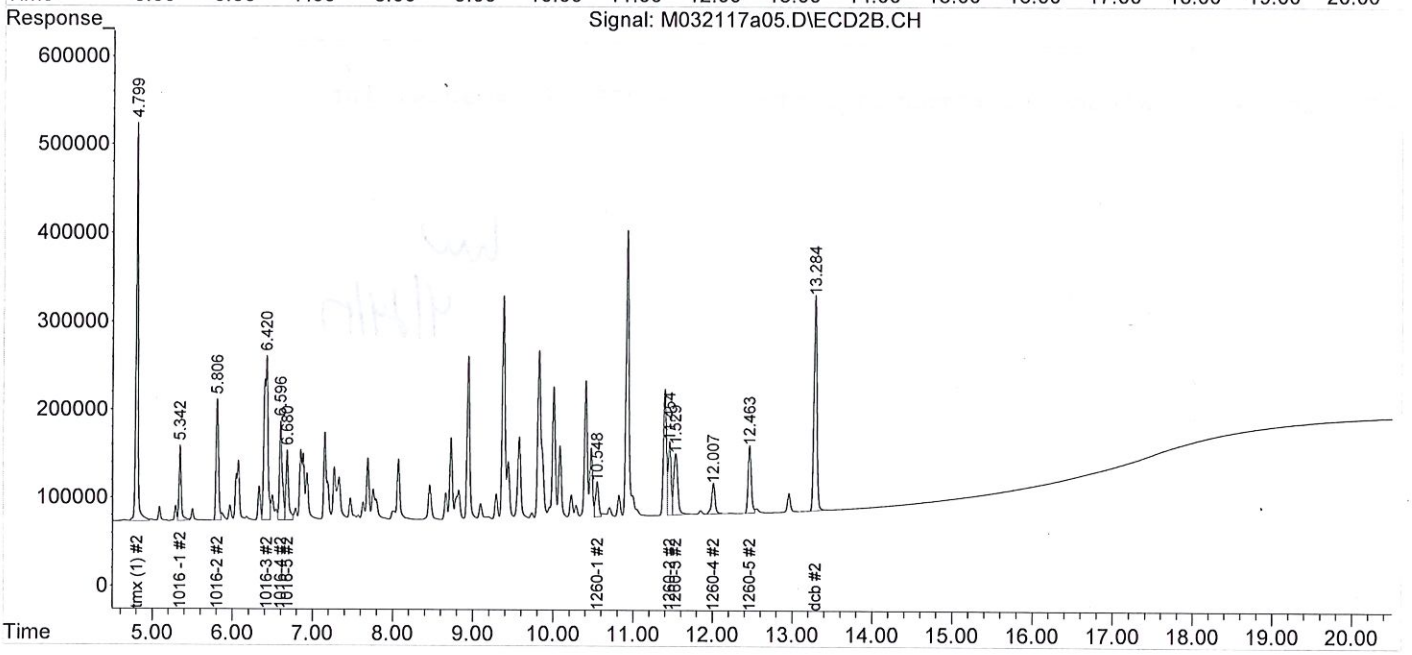
Quantitation Report (QT Reviewed)

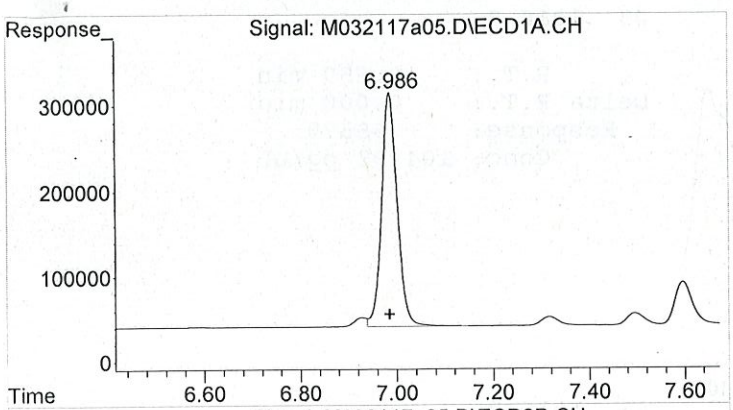
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 5:18 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 5 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:51:48 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

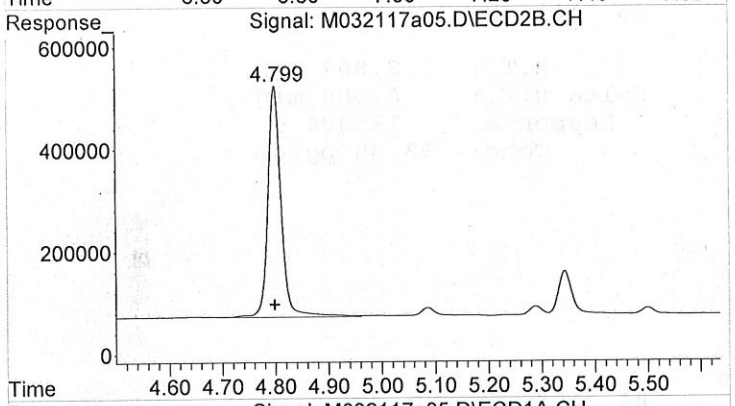






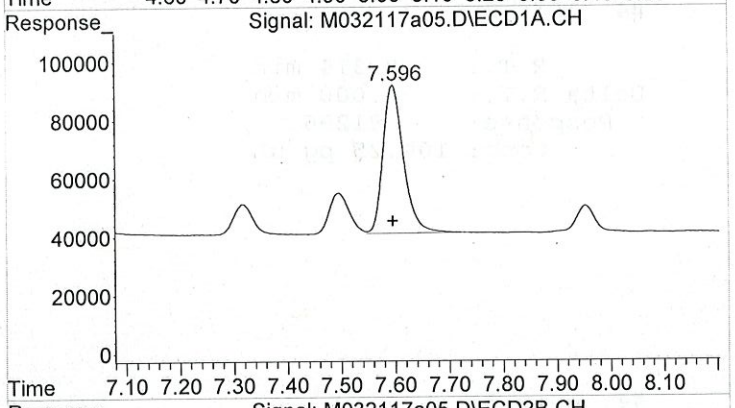
#1 tmx (1)

R.T.: 6.986 min
Delta R.T.: 0.000 min
Response: 273183
Conc: 9.87 pg/uL



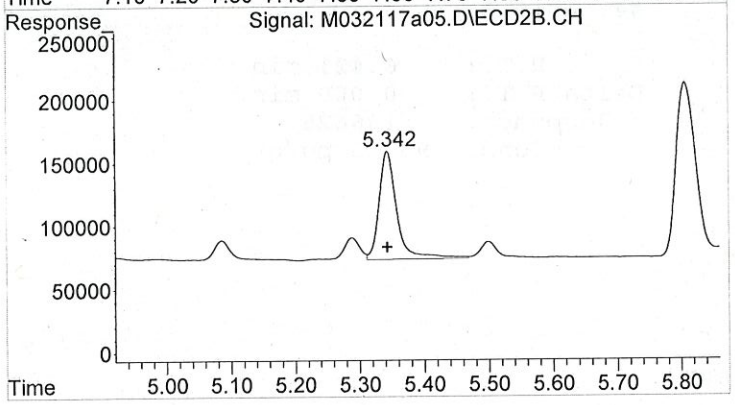
#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 449505
Conc: 10.13 pg/uL



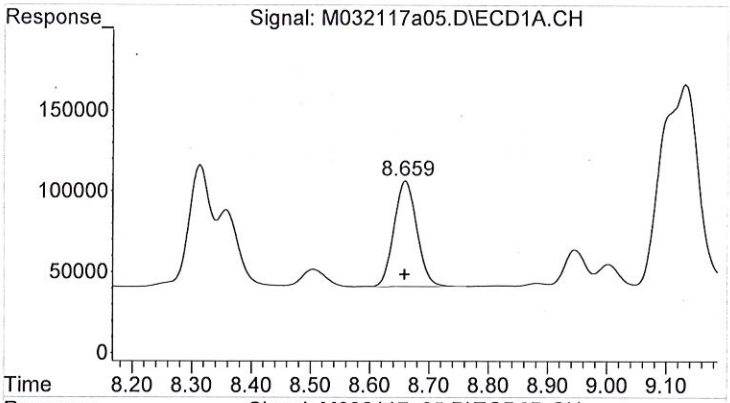
#2 1016 -1

R.T.: 7.596 min
Delta R.T.: 0.000 min
Response: 50776
Conc: 96.89 pg/uL



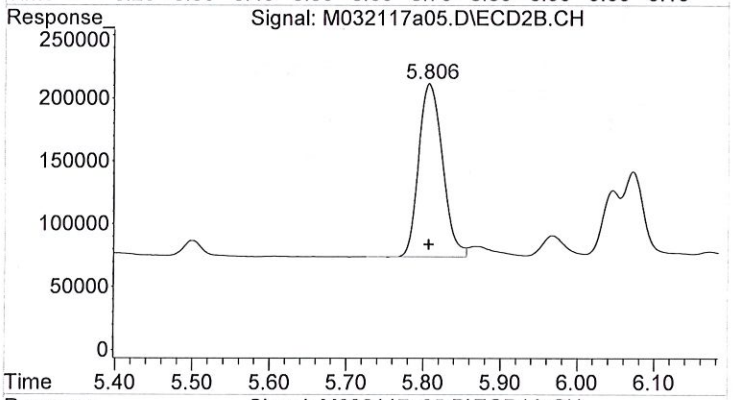
#2 1016 -1

R.T.: 5.343 min
Delta R.T.: 0.000 min
Response: 85514
Conc: 101.35 pg/uL



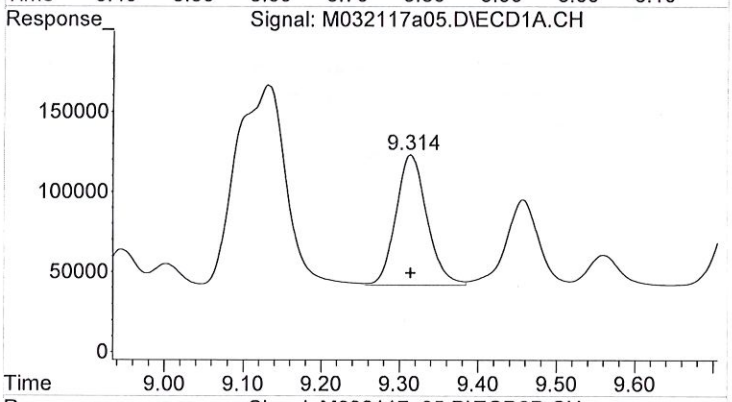
#3 1016-2

R.T.: 8.659 min
Delta R.T.: 0.000 min
Response: 65570
Conc: 104.92 pg/uL



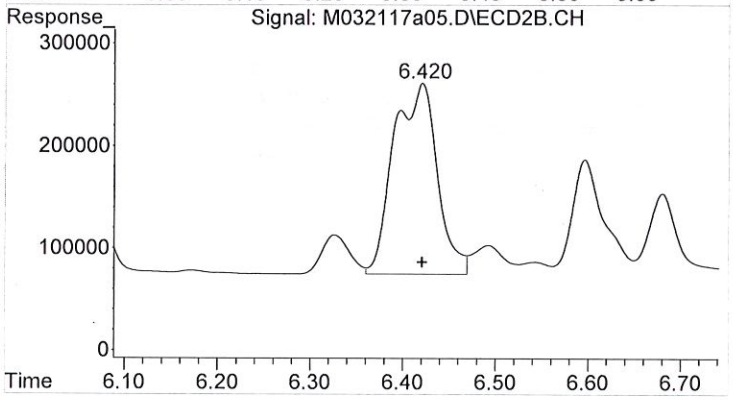
#3 1016-2

R.T.: 5.807 min
Delta R.T.: 0.000 min
Response: 137204
Conc: 93.95 pg/uL



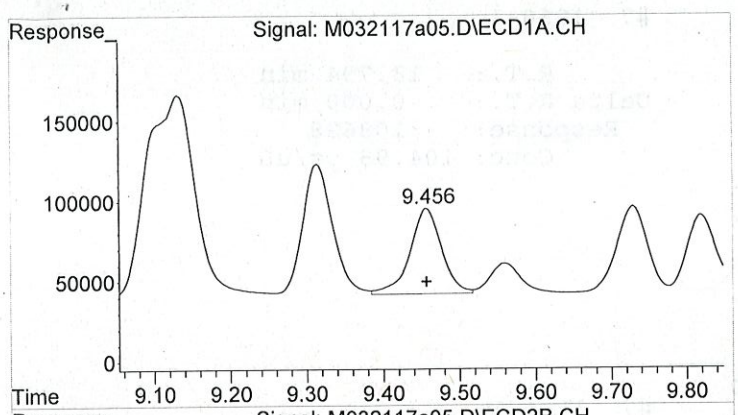
#4 1016-3

R.T.: 9.314 min
Delta R.T.: 0.000 min
Response: 81296
Conc: 104.25 pg/uL



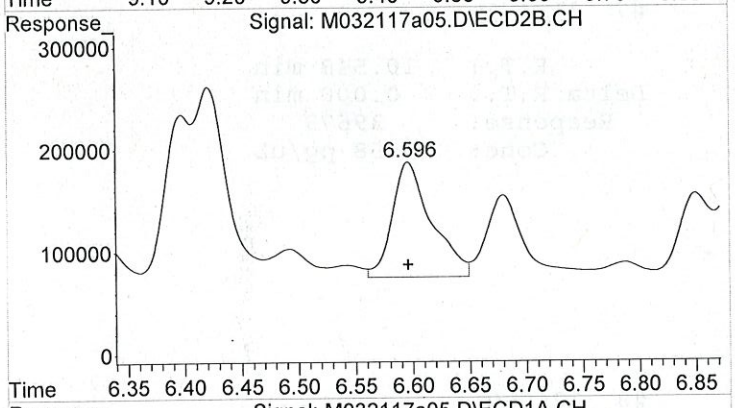
#4 1016-3

R.T.: 6.421 min
Delta R.T.: 0.000 min
Response: 186625
Conc: 95.25 pg/uL



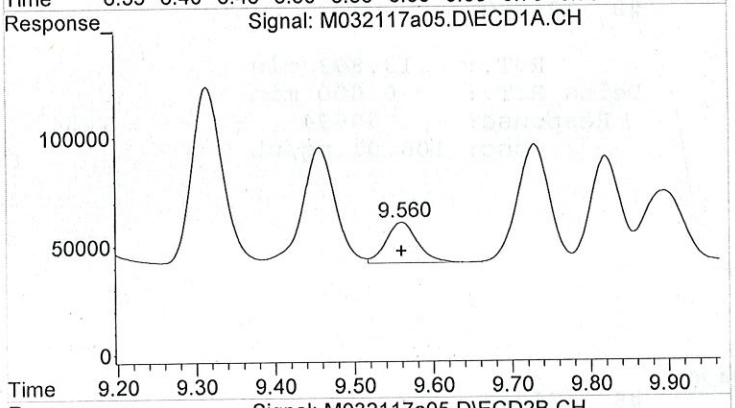
#5 1016-4

R.T.: 9.457 min
Delta R.T.: 0.000 min
Response: 53319
Conc: 104.44 pg/uL



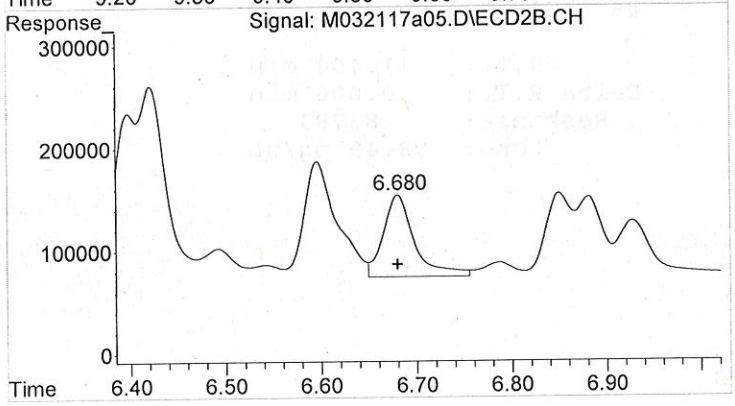
#5 1016-4

R.T.: 6.596 min
Delta R.T.: 0.000 min
Response: 112203
Conc: 99.03 pg/uL



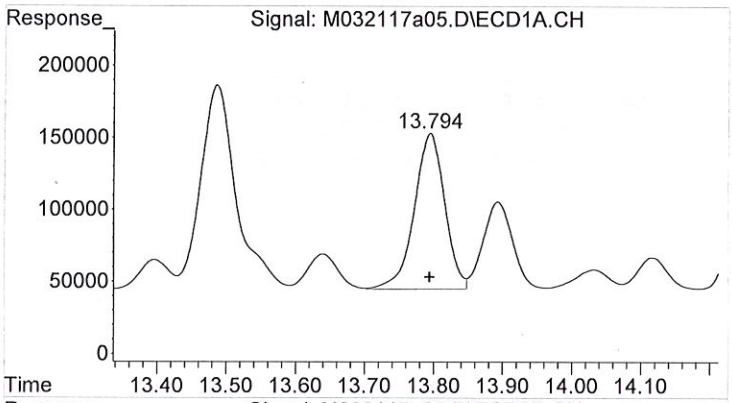
#6 1016-5

R.T.: 9.560 min
Delta R.T.: 0.000 min
Response: 18730
Conc: 98.67 pg/uL



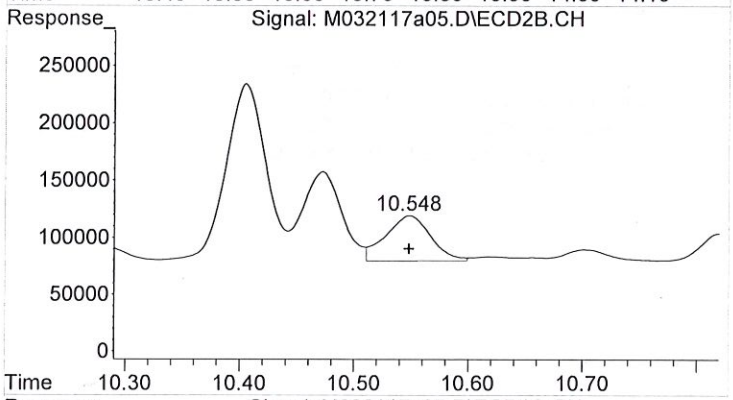
#6 1016-5

R.T.: 6.680 min
Delta R.T.: 0.000 min
Response: 79237
Conc: 97.36 pg/uL



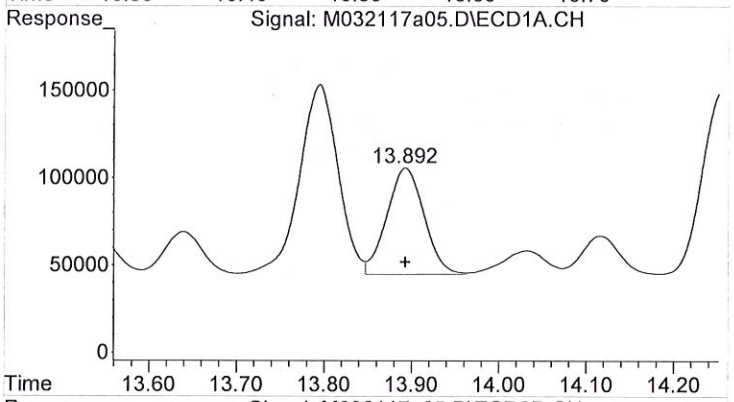
#7 1260-1

R.T.: 13.794 min
Delta R.T.: 0.000 min
Response: 108628
Conc: 104.95 pg/uL



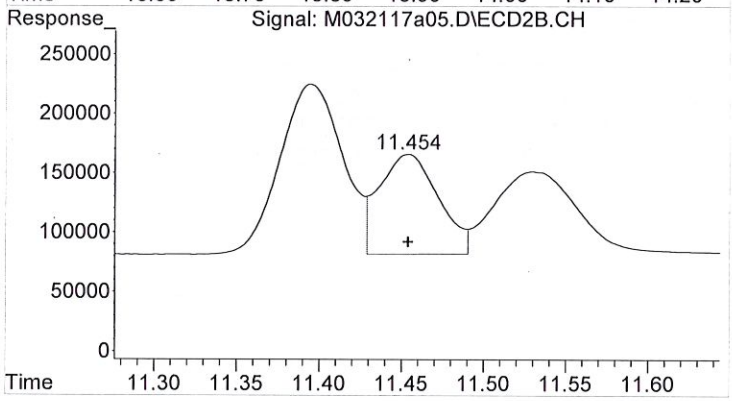
#7 1260-1

R.T.: 10.548 min
Delta R.T.: 0.000 min
Response: 39679
Conc: 99.58 pg/uL



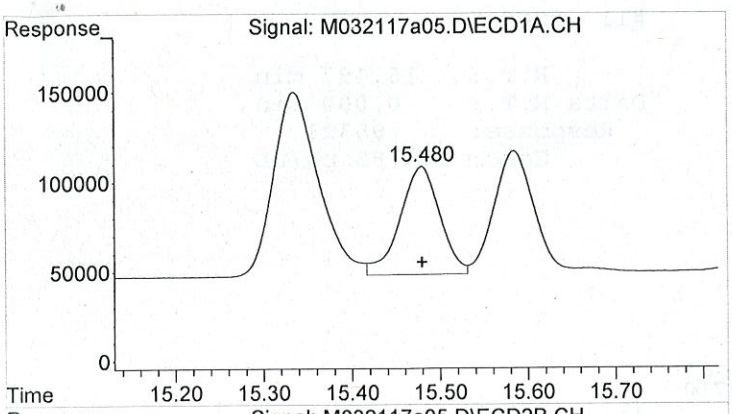
#8 1260-2

R.T.: 13.893 min
Delta R.T.: 0.000 min
Response: 60694
Conc: 106.91 pg/uL



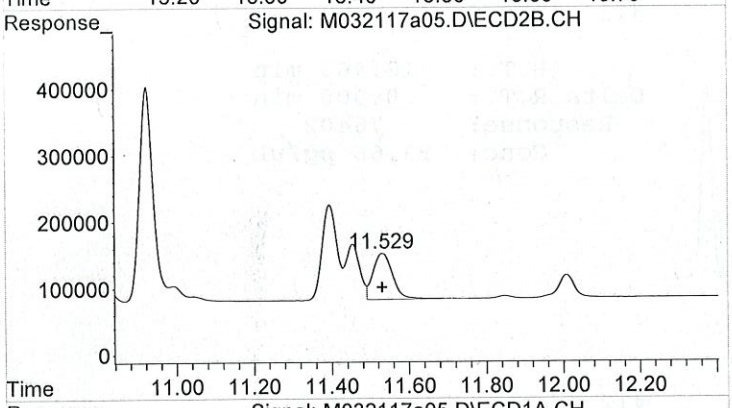
#8 1260-2

R.T.: 11.454 min
Delta R.T.: 0.000 min
Response: 83783
Conc: 98.49 pg/uL



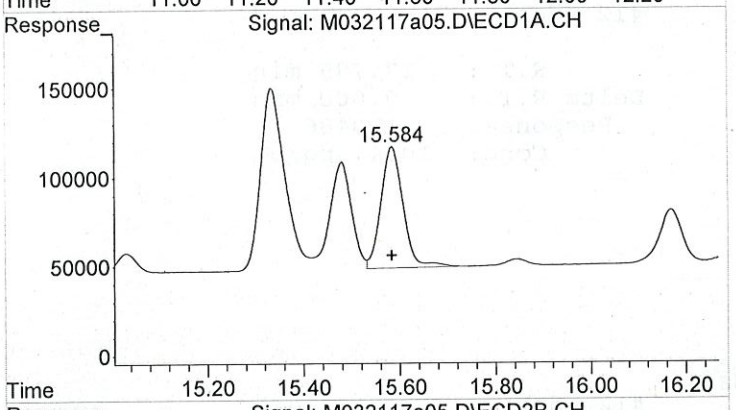
#9 1260-3

R.T.: 15.480 min
Delta R.T.: 0.000 min
Response: 60025
Conc: 98.92 pg/uL



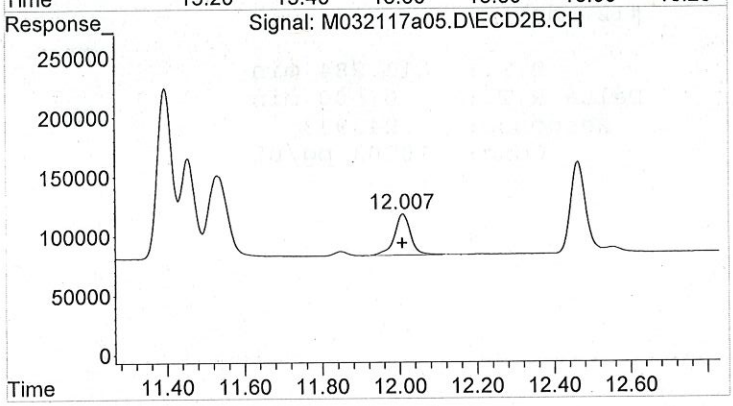
#9 1260-3

R.T.: 11.531 min
Delta R.T.: 0.000 min
Response: 68878
Conc: 98.91 pg/uL



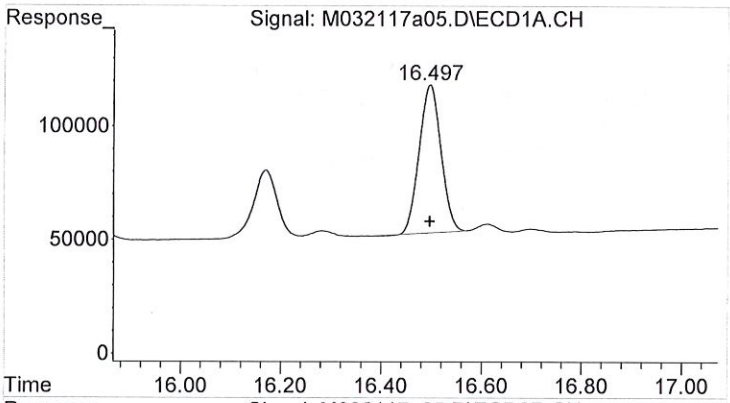
#10 1260-4

R.T.: 15.584 min
Delta R.T.: 0.000 min
Response: 68227
Conc: 106.44 pg/uL



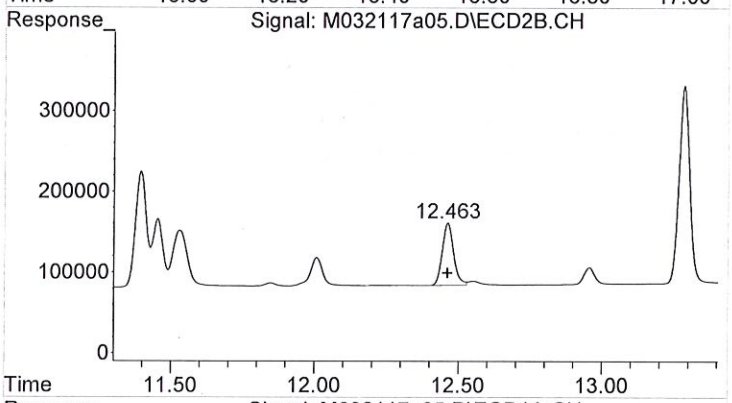
#10 1260-4

R.T.: 12.008 min
Delta R.T.: 0.000 min
Response: 34698
Conc: 96.90 pg/uL



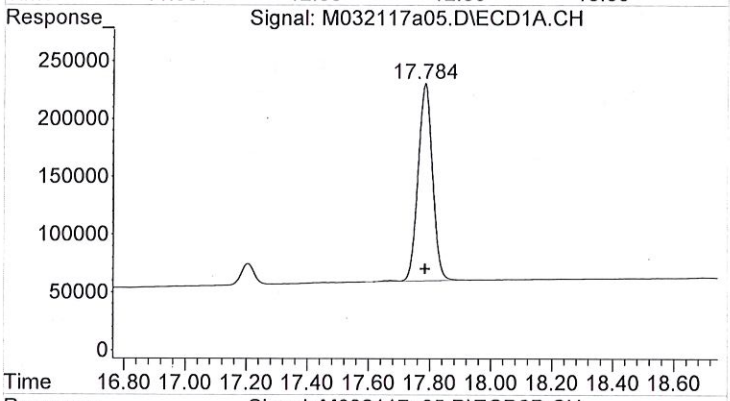
#11 1260-5

R.T.: 16.497 min
Delta R.T.: 0.000 min
Response: 65311
Conc: 103.85 pg/uL



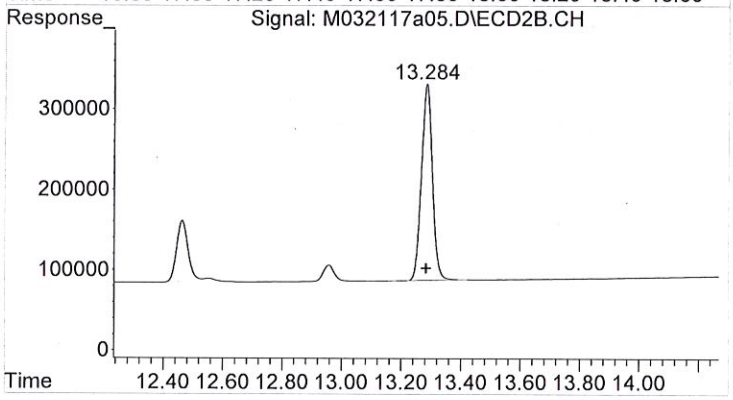
#11 1260-5

R.T.: 12.463 min
Delta R.T.: 0.000 min
Response: 76402
Conc: 93.66 pg/uL



#12 dcb

R.T.: 17.785 min
Delta R.T.: 0.000 min
Response: 170486
Conc: 10.47 pg/uL



#12 dcb

R.T.: 13.284 min
Delta R.T.: 0.000 min
Response: 243933
Conc: 10.03 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 17:18 pm
Operator : DWOOD
Sample : 87PCB062716I
Misc : PCB 1016/1260 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 5 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:00:16 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
	System Monitoring Compounds							
1)	S2 tmx (1)	6.986	4.799	273183	449505	9.870	10.129	
12)	S2 dcb	17.785	13.284	170486	243933	10.470	10.029	
	Target Compounds							
2)	L1 1016 -1	7.596	5.343	50776	85514	96.886	101.353	
3)	L1 1016-2	8.659	5.807	65570	137204	104.919	93.946	
4)	L1 1016-3	9.314	6.421	81296	186625	104.148	95.248	
5)	L1 1016-4	9.457	6.596	53319	112203	104.057	99.031	
6)	L1 1016-5	9.560	6.680	18730	79237	98.671	97.362	
	Sum 1016 -1			269690	600782	508.681	486.940	
	Average 1016 -1					101.736	97.388	
7)	L2 1260-1	13.794	10.548	108628	39679	88.612	19.060	#
8)	L2 1260-2	13.893	11.454	60694	83783	36.495	31.409	
9)	L2 1260-3	15.480	11.531	60025	68878	36.117	35.619	
10)	L2 1260-4	15.584	12.008	68227	34698	65.817	12.414	#
11)	L2 1260-5	16.497	12.463	65311	76402	103.846	93.662	
	Sum 1260-1			362885	303441	330.887	192.163	
	Average 1260-1					66.177	38.433	

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

lw 4/18/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 5:43 pm
Operator : DWOOD
Sample : 87PCB062716E
Misc : PCB 1016/1260 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 6 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:51:55 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
	System Monitoring Compounds						
1)	S2 tmx (1)	6.988	4.801	733513	1266057	27.347	30.126
12)	S2 dcb	17.786	13.285	409798	674369	26.941	28.105
	Target Compounds						
2)	L1 1016 -1	7.597	5.344	127385	225591	265.404	276.179
3)	L1 1016-2	8.661	5.807	159031	375236	272.538	269.814
4)	L1 1016-3	9.315	6.422	197932	547347	269.959	281.213
5)	L1 1016-4	9.458	6.597	131708	305611	270.633	273.608
6)	L1 1016-5	9.560	6.680	45370	223658	258.968	277.333
	Sum 1016 -1			661426	1677444	1337.503	1378.147
	Average 1016 -1					267.501	275.629
7)	L2 1260-1	13.795	10.549	259468	109510	268.580	272.093
8)	L2 1260-2	13.895	11.454	144666	233034	282.976	277.648
9)	L2 1260-3	15.479	11.529	143864	190488	255.278	273.385
10)	L2 1260-4	15.586	12.010	166540	97096	273.650	270.061
11)	L2 1260-5	16.498	12.464	162363	228132	274.726	278.847
	Sum 1260-1			876901	858260	1355.210	1372.034
	Average 1260-1					271.042	274.407

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

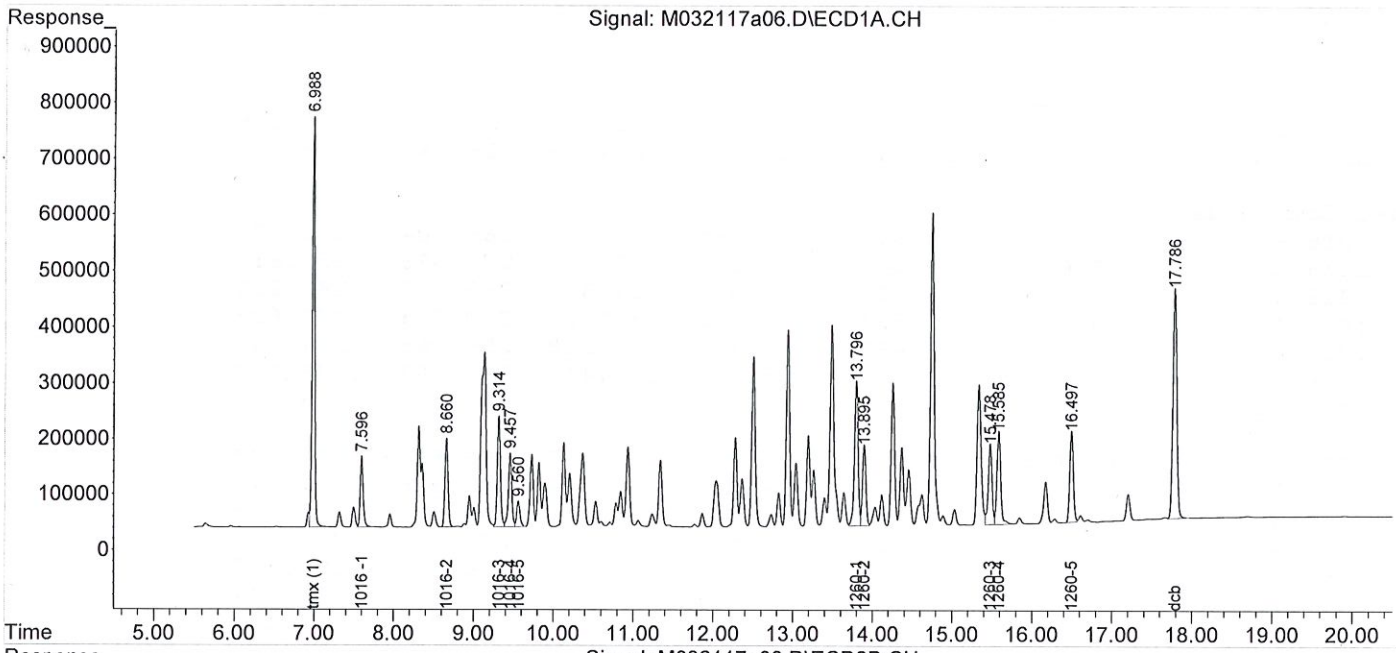
ww
4/24/17

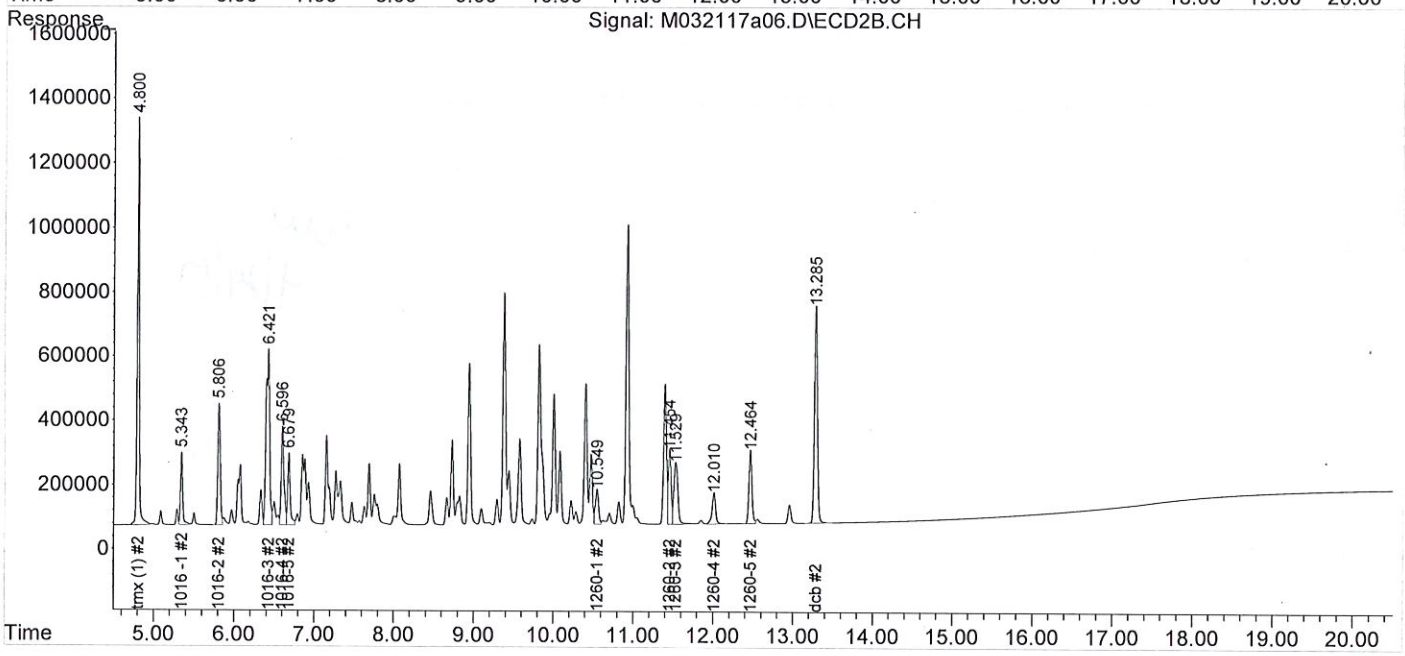
Quantitation Report (QT Reviewed)

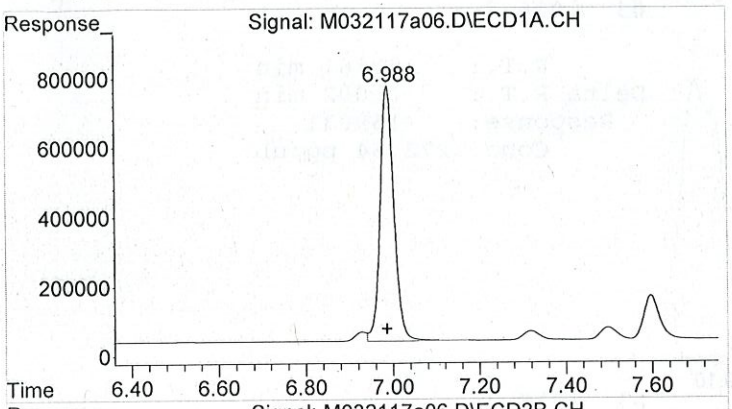
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 5:43 pm
Operator : DWOOD
Sample : 87PCB062716E
Misc : PCB 1016/1260 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 6 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:51:55 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

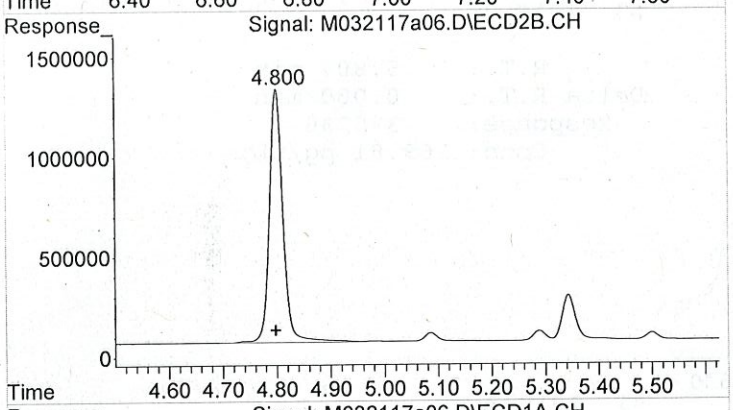






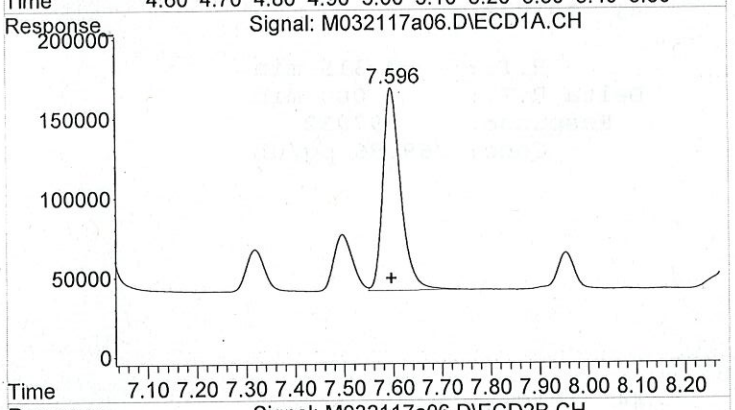
#1 tmx (1)

R.T.: 6.988 min
Delta R.T.: 0.002 min
Response: 733513
Conc: 27.35 pg/uL



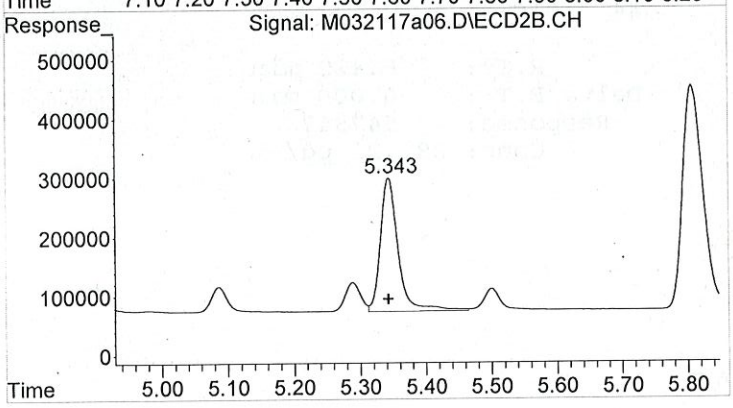
#1 tmx (1)

R.T.: 4.801 min
Delta R.T.: 0.002 min
Response: 1266057
Conc: 30.13 pg/uL



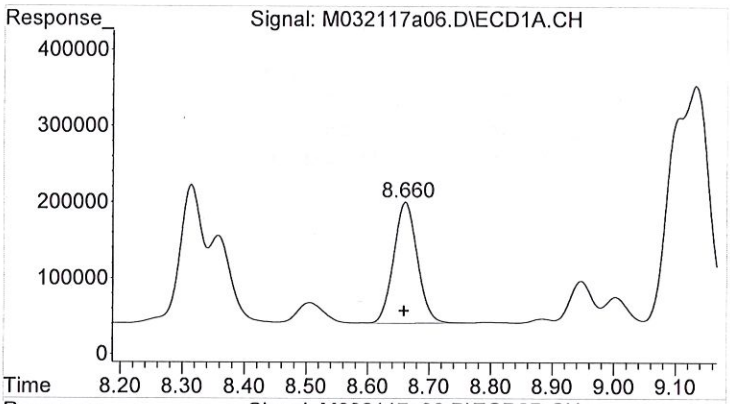
#2 1016 -1

R.T.: 7.597 min
Delta R.T.: 0.000 min
Response: 127385
Conc: 265.40 pg/uL



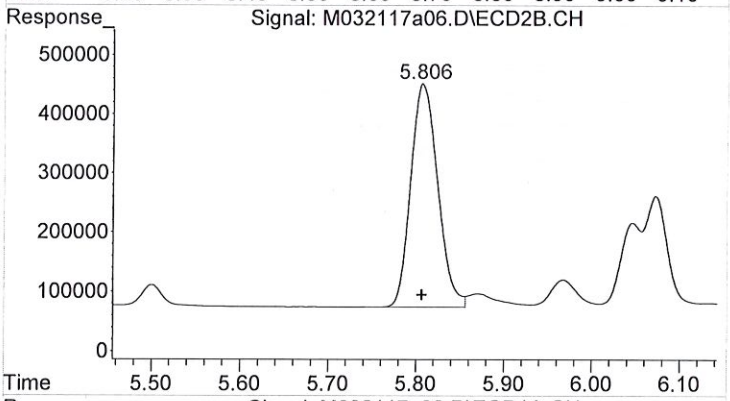
#2 1016 -1

R.T.: 5.344 min
Delta R.T.: 0.000 min
Response: 225591
Conc: 276.18 pg/uL



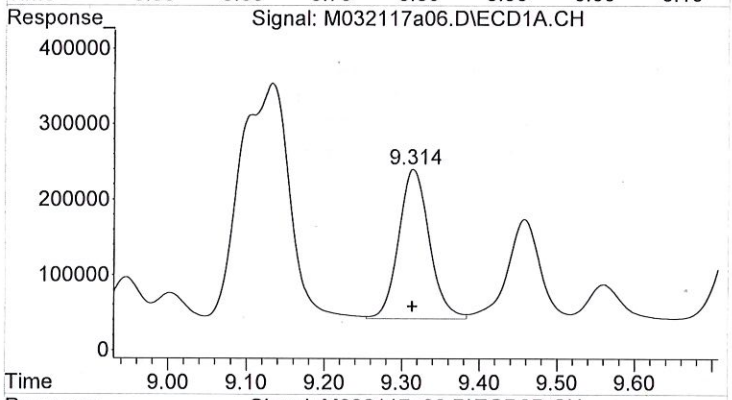
#3 1016-2

R.T.: 8.661 min
Delta R.T.: 0.002 min
Response: 159031
Conc: 272.54 pg/uL



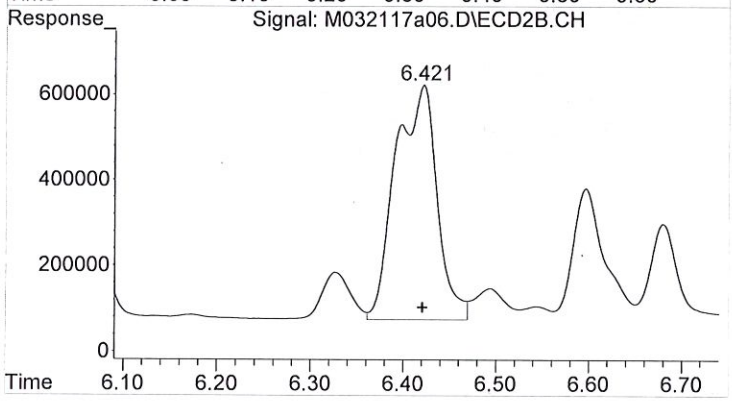
#3 1016-2

R.T.: 5.807 min
Delta R.T.: 0.000 min
Response: 375236
Conc: 269.81 pg/uL



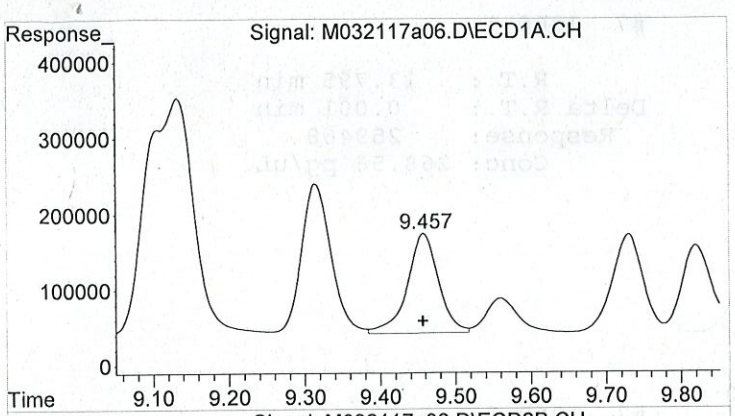
#4 1016-3

R.T.: 9.315 min
Delta R.T.: 0.000 min
Response: 197932
Conc: 269.96 pg/uL



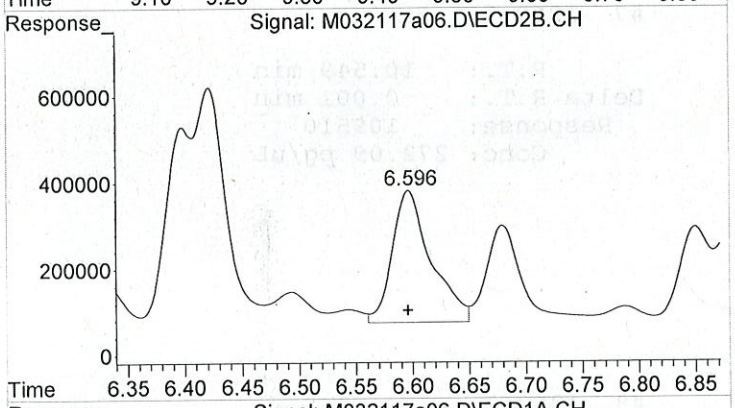
#4 1016-3

R.T.: 6.422 min
Delta R.T.: 0.000 min
Response: 547347
Conc: 281.21 pg/uL



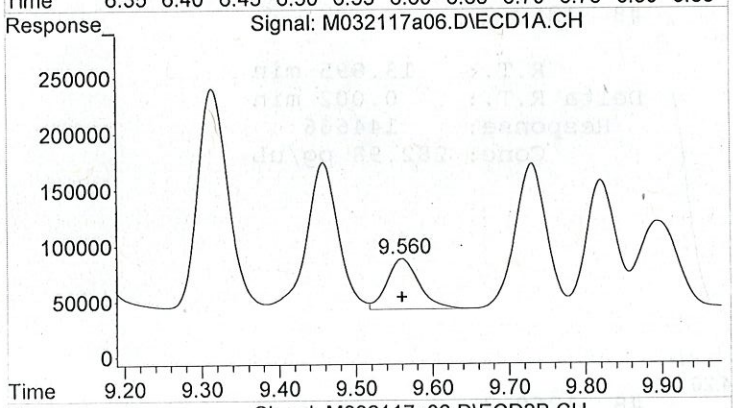
#5 1016-4

R.T.: 9.458 min
Delta R.T.: 0.000 min
Response: 131708
Conc: 270.63 pg/uL



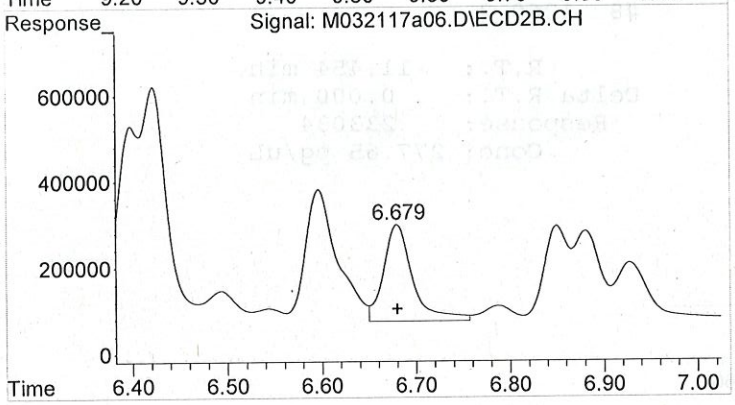
#5 1016-4

R.T.: 6.597 min
Delta R.T.: 0.000 min
Response: 305611
Conc: 273.61 pg/uL



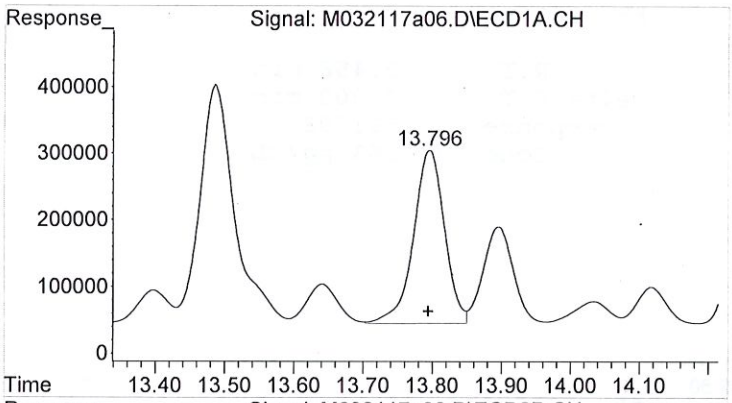
#6 1016-5

R.T.: 9.560 min
Delta R.T.: 0.000 min
Response: 45370
Conc: 258.97 pg/uL



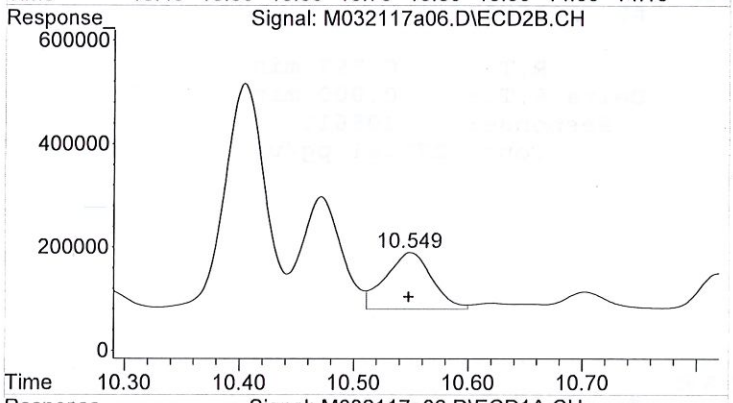
#6 1016-5

R.T.: 6.680 min
Delta R.T.: 0.000 min
Response: 223658
Conc: 277.33 pg/uL



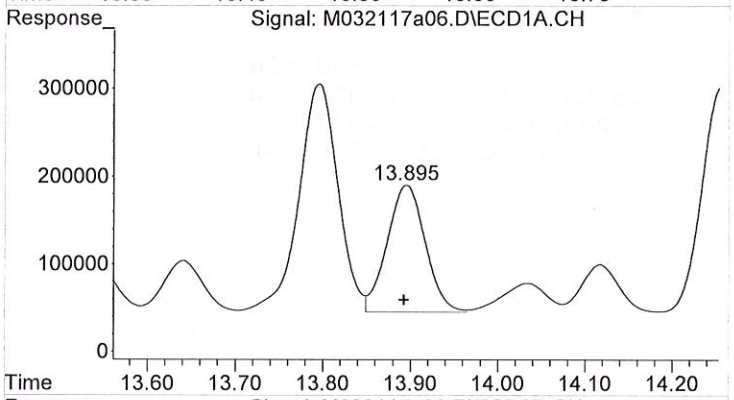
#7 1260-1

R.T.: 13.795 min
Delta R.T.: 0.001 min
Response: 259468
Conc: 268.58 pg/uL



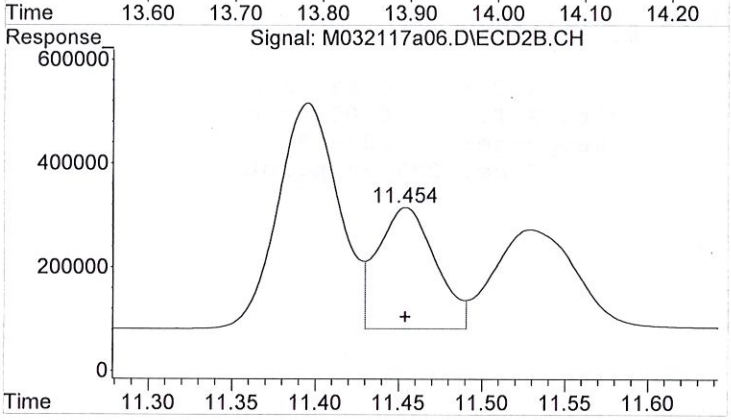
#7 1260-1

R.T.: 10.549 min
Delta R.T.: 0.001 min
Response: 109510
Conc: 272.09 pg/uL



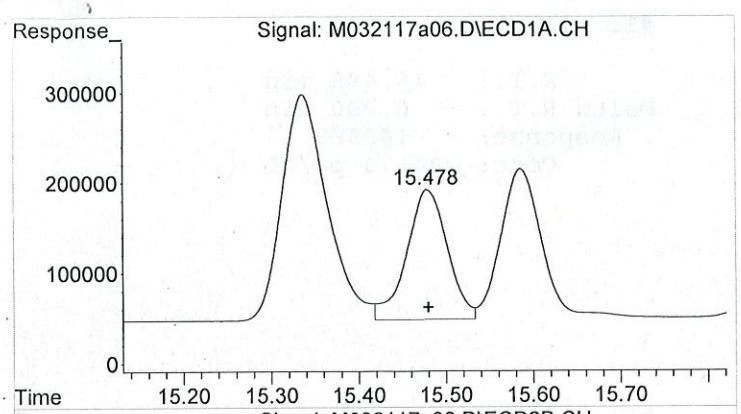
#8 1260-2

R.T.: 13.895 min
Delta R.T.: 0.002 min
Response: 144666
Conc: 282.98 pg/uL



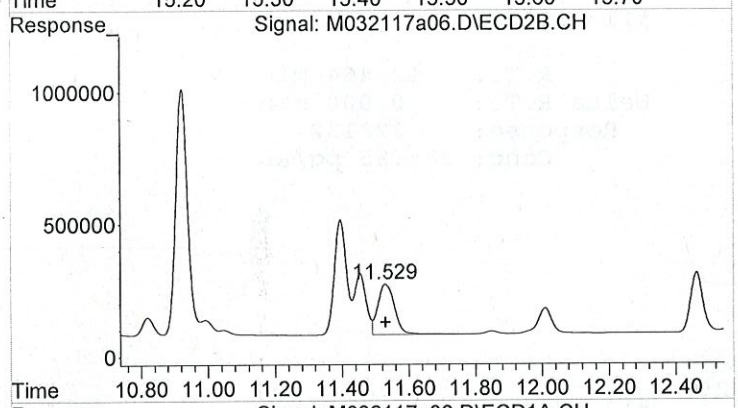
#8 1260-2

R.T.: 11.454 min
Delta R.T.: 0.000 min
Response: 233034
Conc: 277.65 pg/uL



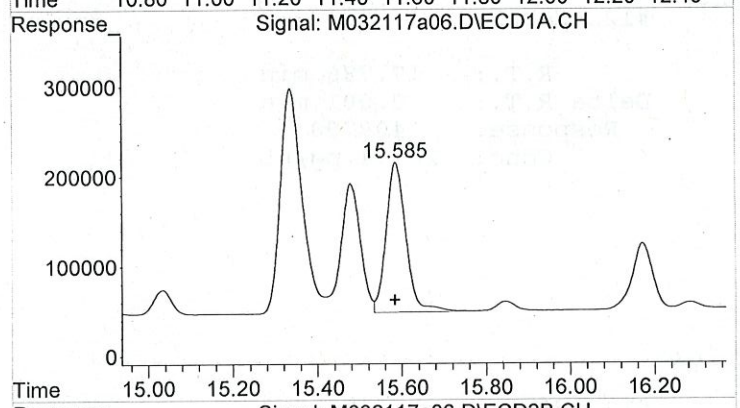
#9 1260-3

R.T.: 15.479 min
Delta R.T.: -0.001 min
Response: 143864
Conc: 255.28 pg/uL



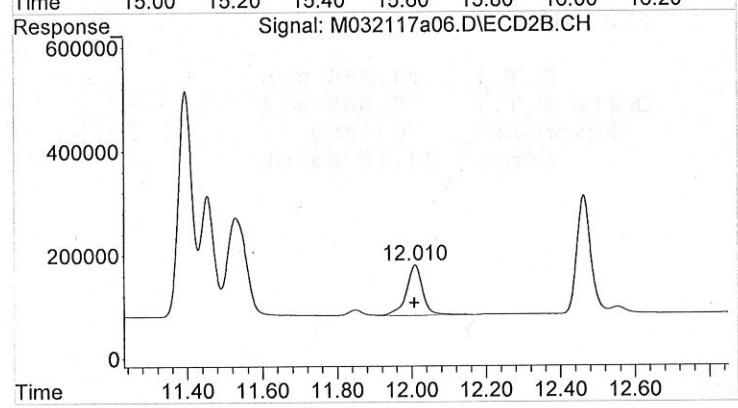
#9 1260-3

R.T.: 11.529 min
Delta R.T.: -0.002 min
Response: 190488
Conc: 273.38 pg/uL



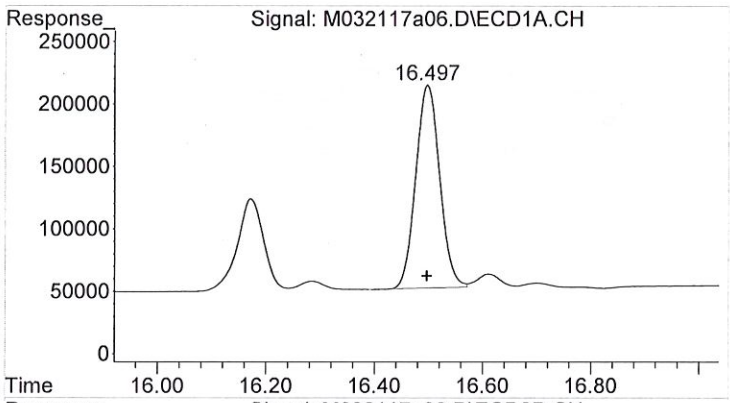
#10 1260-4

R.T.: 15.586 min
Delta R.T.: 0.002 min
Response: 166540
Conc: 273.65 pg/uL



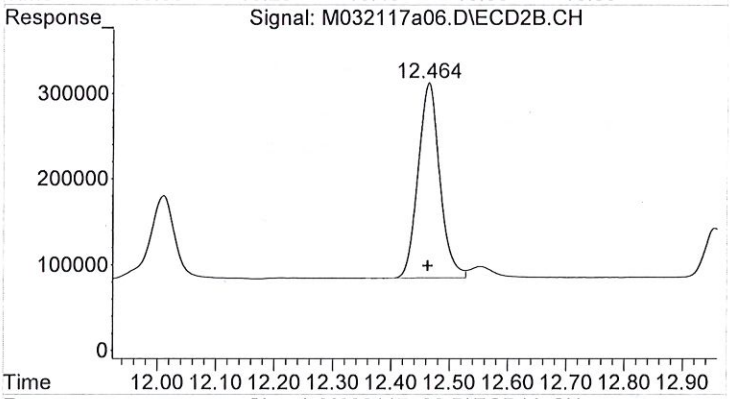
#10 1260-4

R.T.: 12.010 min
Delta R.T.: 0.002 min
Response: 97096
Conc: 270.06 pg/uL



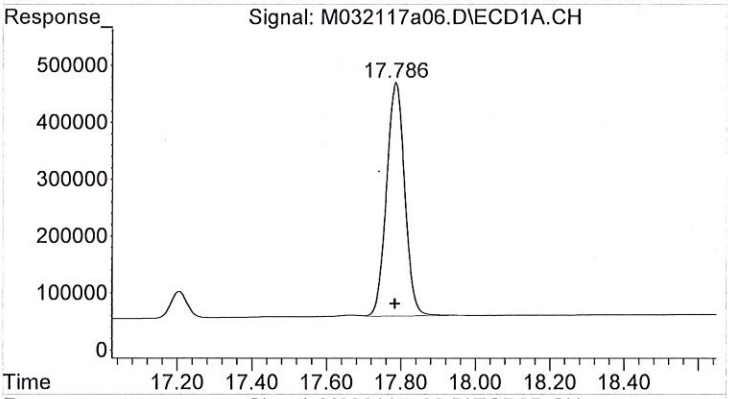
#11 1260-5

R.T.: 16.498 min
Delta R.T.: 0.000 min
Response: 162363
Conc: 274.73 pg/uL



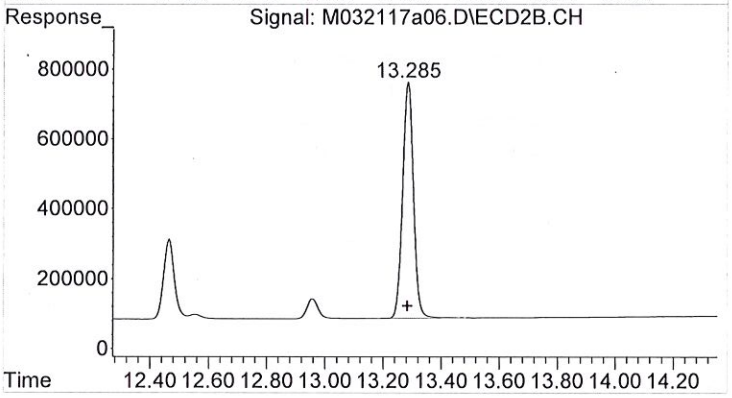
#11 1260-5

R.T.: 12.464 min
Delta R.T.: 0.000 min
Response: 228132
Conc: 278.85 pg/uL



#12 dcb

R.T.: 17.786 min
Delta R.T.: 0.001 min
Response: 409798
Conc: 26.94 pg/uL



#12 dcb

R.T.: 13.285 min
Delta R.T.: 0.000 min
Response: 674369
Conc: 28.10 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 17:43 pm
Operator : DWOOD
Sample : 87PCB062716E
Misc : PCB 1016/1260 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 6 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:00:25 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
	System Monitoring Compounds							
1)	S2 tmx (1)	6.988	4.801	733513	1266057	27.347	30.126	
12)	S2 dcb	17.786	13.285	409798	674369	26.941	28.105	
	Target Compounds							
2)	L1 1016 -1	7.597	5.344	127385	225591	265.404	276.179	
3)	L1 1016-2	8.661	5.807	159031	375236	272.538	269.814	
4)	L1 1016-3	9.315	6.422	197932	547347	270.109	281.213	
5)	L1 1016-4	9.458	6.597	131708	305611	271.214	273.608	
6)	L1 1016-5	9.560	6.680	45370	223658	256.513	277.333	
	Sum 1016 -1			661426	1677444	1335.778	1378.147	
	Average 1016 -1					267.156	275.629	
7)	L2 1260-1	13.795	10.549	259468	109510	231.056	57.910	#
8)	L2 1260-2	13.895	11.454	144666	233034	103.441	89.255	
9)	L2 1260-3	15.479	11.529	143864	190488	101.886	95.645	
10)	L2 1260-4	15.586	12.010	166540	97096	176.272	30.992	#
11)	L2 1260-5	16.498	12.464	162363	228132	274.726	278.847	
	Sum 1260-1			876901	858260	887.381	552.648	
	Average 1260-1					177.476	110.530	

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

lw 4/18/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 6:08 pm
Operator : DWOOD
Sample : 87PCB062716F
Misc : PCB 1016/1260 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:52:02 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.987	4.801	1381988	2279288	51.968	54.938
12) S2 dcb	17.785	13.286	759332	1223676	50.999	51.172
Target Compounds						
2) L1 1016 -1	7.597	5.343	214242	399084	476.215	492.710
3) L1 1016-2	8.661	5.807	278559	661506	486.908	497.213
4) L1 1016-3	9.315	6.421	351023	976035	487.464	502.217
5) L1 1016-4	9.458	6.596	230299	559687	479.661	502.945
6) L1 1016-5	9.560	6.680	77443	402147	480.163	499.757
Sum 1016 -1			1151566	2998458	2410.411	2494.842
Average 1016 -1					482.082	498.968
7) L2 1260-1	13.797	10.551	463390	198715	489.791	492.468
8) L2 1260-2	13.895	11.456	259135	409574	522.976	489.569
9) L2 1260-3	15.481	11.532	251679	342763	482.131	491.850
10) L2 1260-4	15.587	12.011	290104	181422	483.813	504.076
11) L2 1260-5	16.499	12.464	283791	407640	488.525	497.935
Sum 1260-1			1548098	1540114	2467.236	2475.899
Average 1260-1					493.447	495.180

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

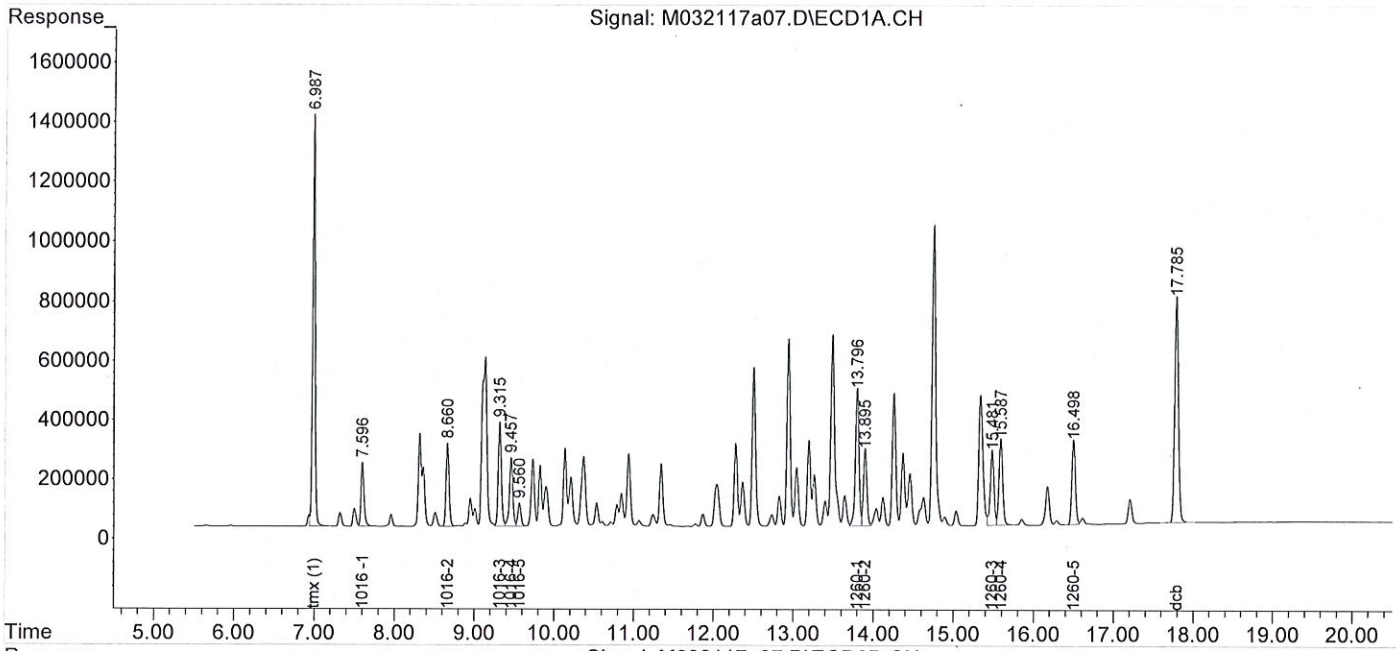
hw
4/24/17

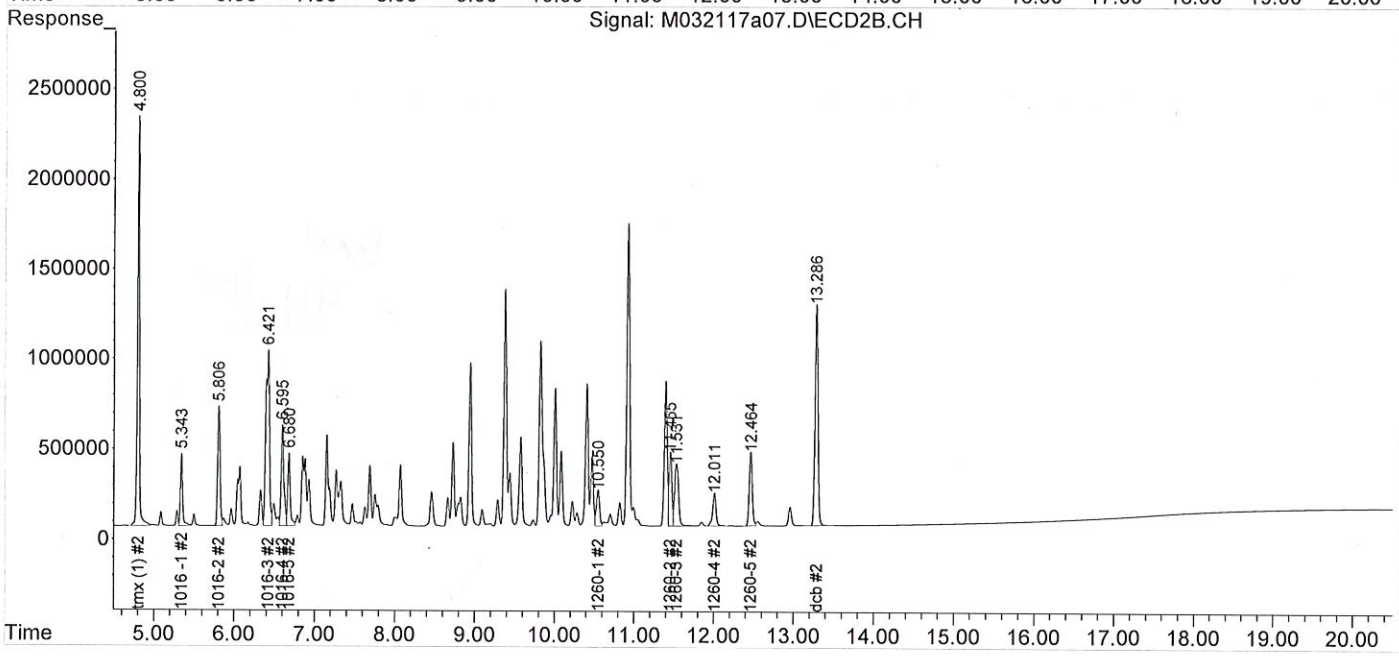
Quantitation Report (QT Reviewed)

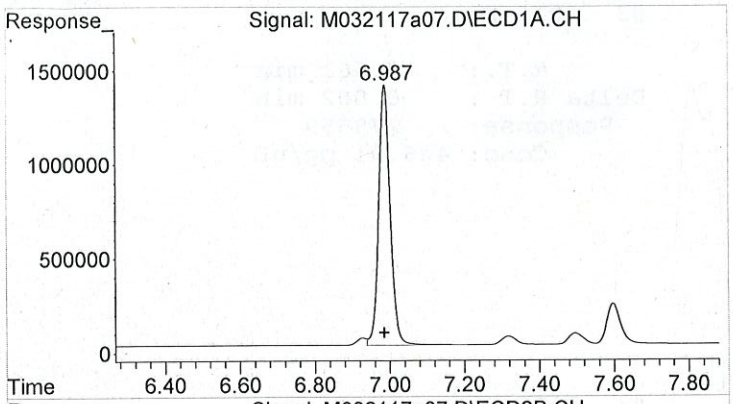
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 6:08 pm
Operator : DWOOD
Sample : 87PCB062716F
Misc : PCB 1016/1260 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:52:02 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

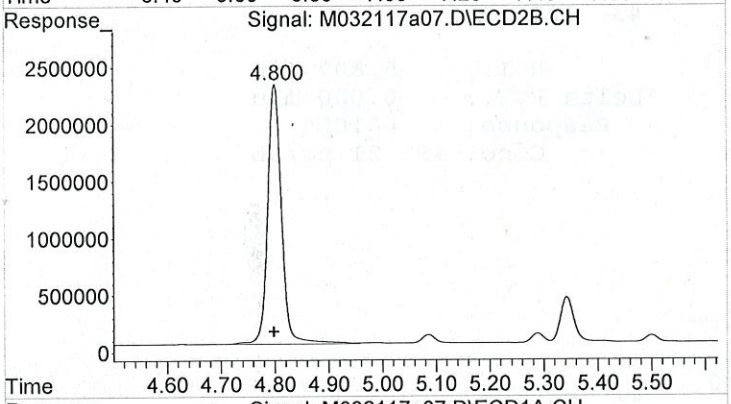






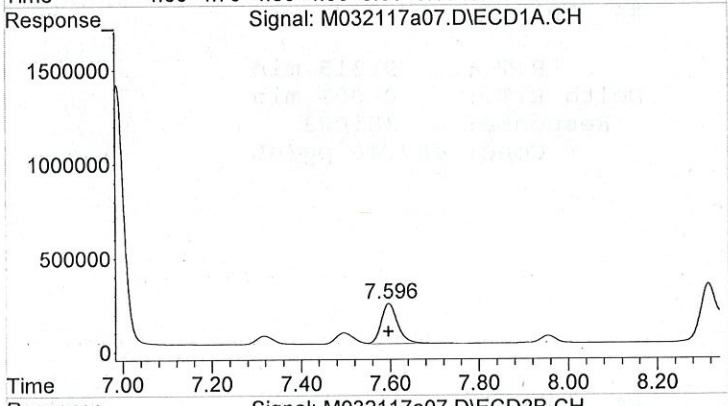
#1 tmx (1)

R.T.: 6.987 min
Delta R.T.: 0.001 min
Response: 1381988
Conc: 51.97 pg/uL



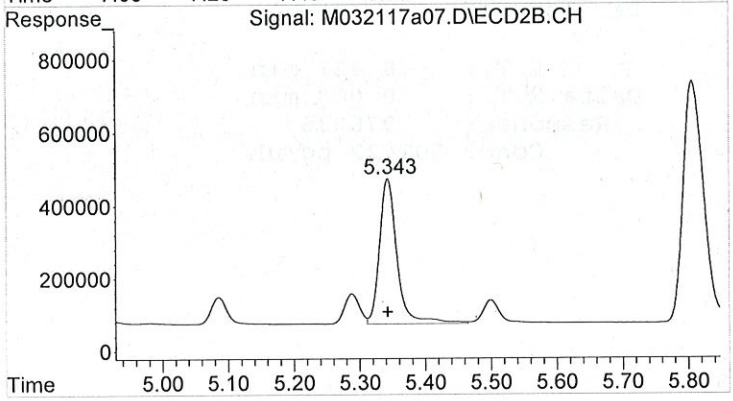
#1 tmx (1)

R.T.: 4.801 min
Delta R.T.: 0.002 min
Response: 2279288
Conc: 54.94 pg/uL



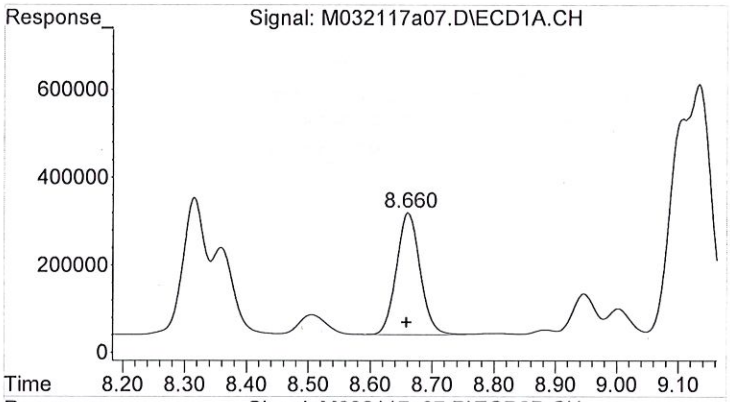
#2 1016 -1

R.T.: 7.597 min
Delta R.T.: 0.000 min
Response: 214242
Conc: 476.22 pg/uL



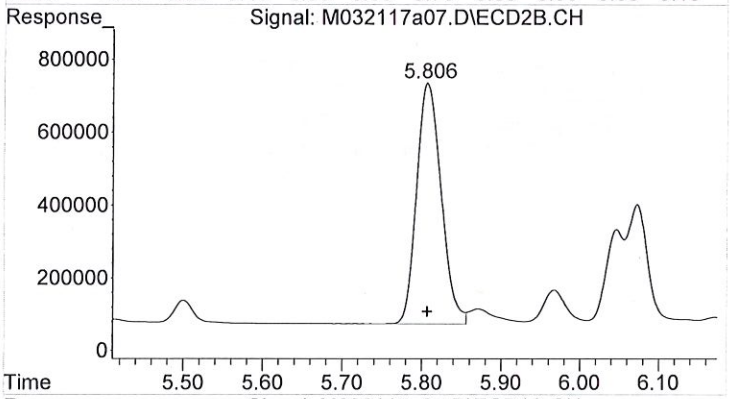
#2 1016 -1

R.T.: 5.343 min
Delta R.T.: 0.000 min
Response: 399084
Conc: 492.71 pg/uL



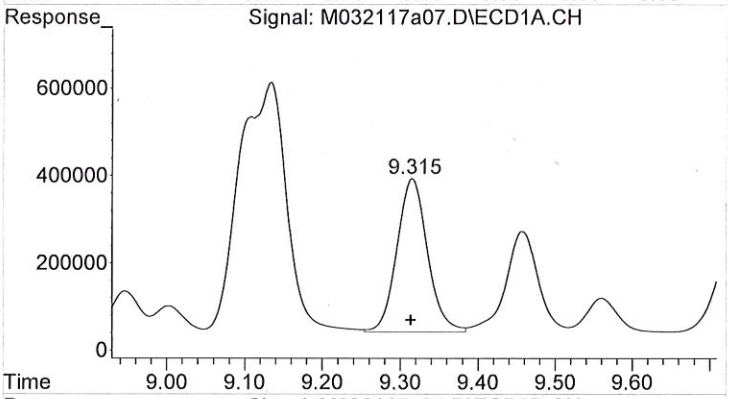
#3 1016-2

R.T.: 8.661 min
Delta R.T.: 0.002 min
Response: 278559
Conc: 486.91 pg/uL



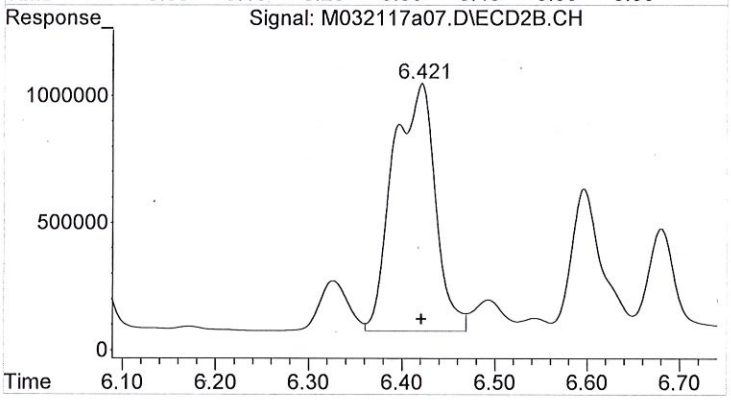
#3 1016-2

R.T.: 5.807 min
Delta R.T.: 0.000 min
Response: 661506
Conc: 497.21 pg/uL



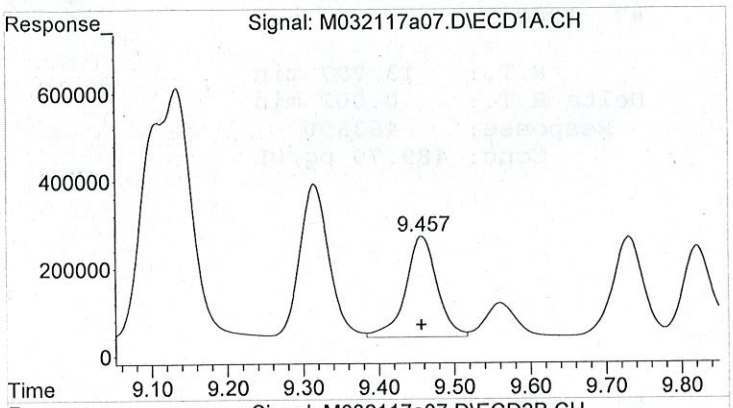
#4 1016-3

R.T.: 9.315 min
Delta R.T.: 0.001 min
Response: 351023
Conc: 487.46 pg/uL



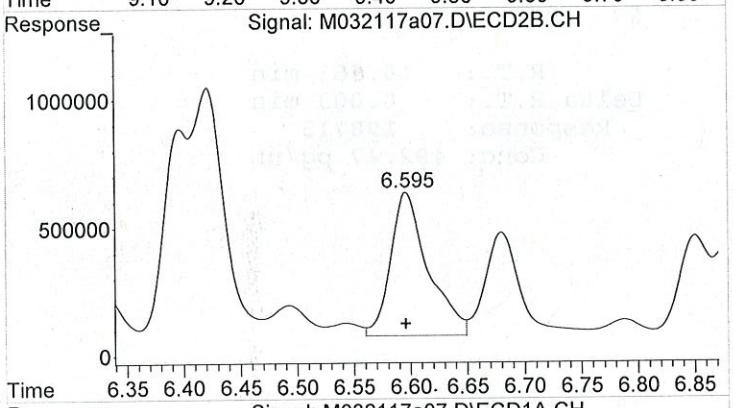
#4 1016-3

R.T.: 6.421 min
Delta R.T.: 0.000 min
Response: 976035
Conc: 502.22 pg/uL



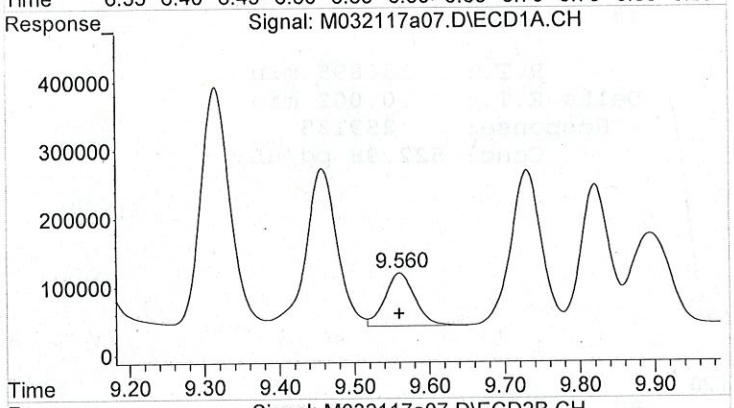
#5 1016-4

R.T.: 9.458 min
Delta R.T.: 0.000 min
Response: 230299
Conc: 479.66 pg/uL



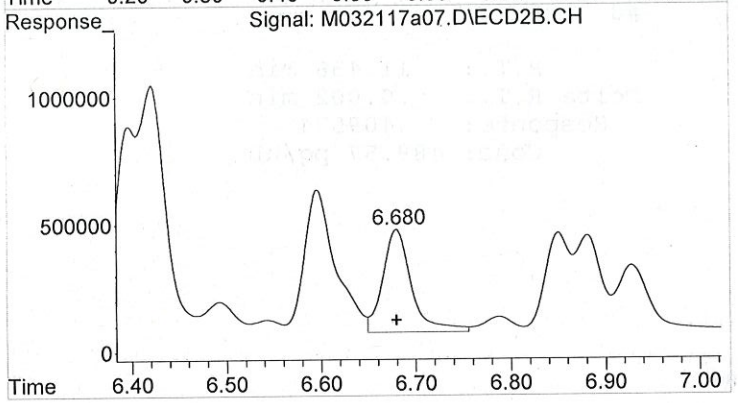
#5 1016-4

R.T.: 6.596 min
Delta R.T.: 0.000 min
Response: 559687
Conc: 502.95 pg/uL



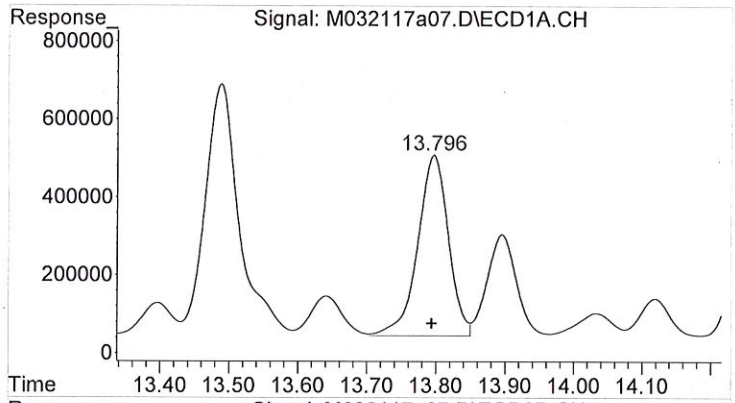
#6 1016-5

R.T.: 9.560 min
Delta R.T.: 0.000 min
Response: 77443
Conc: 480.16 pg/uL



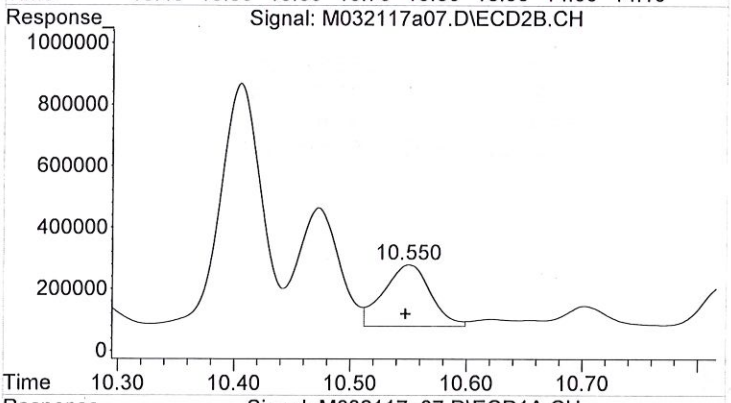
#6 1016-5

R.T.: 6.680 min
Delta R.T.: 0.000 min
Response: 402147
Conc: 499.76 pg/uL



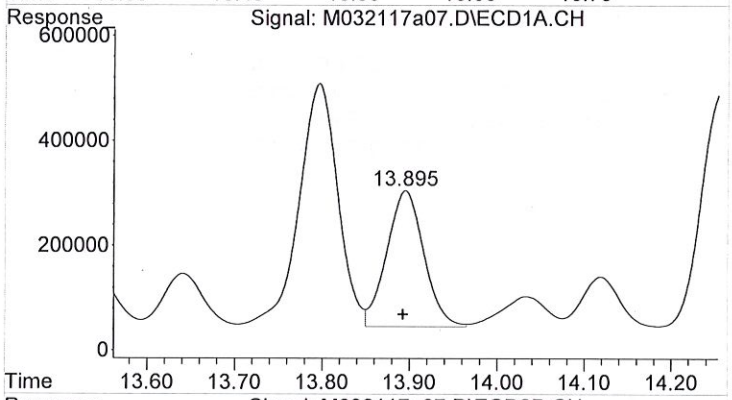
#7 1260-1

R.T.: 13.797 min
Delta R.T.: 0.002 min
Response: 463390
Conc: 489.79 pg/uL



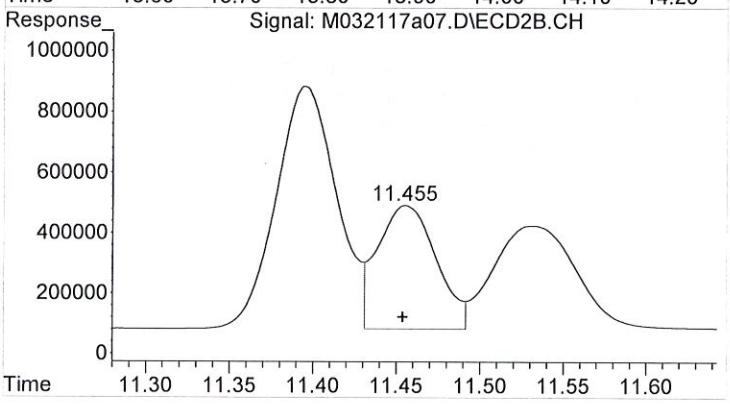
#7 1260-1

R.T.: 10.551 min
Delta R.T.: 0.003 min
Response: 198715
Conc: 492.47 pg/uL



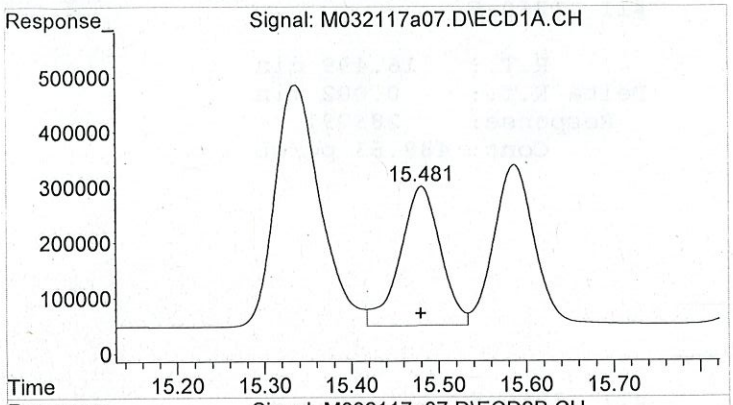
#8 1260-2

R.T.: 13.895 min
Delta R.T.: 0.002 min
Response: 259135
Conc: 522.98 pg/uL



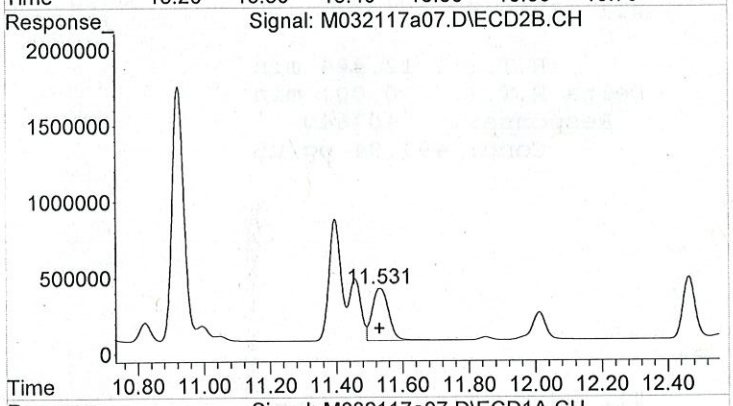
#8 1260-2

R.T.: 11.456 min
Delta R.T.: 0.002 min
Response: 409574
Conc: 489.57 pg/uL



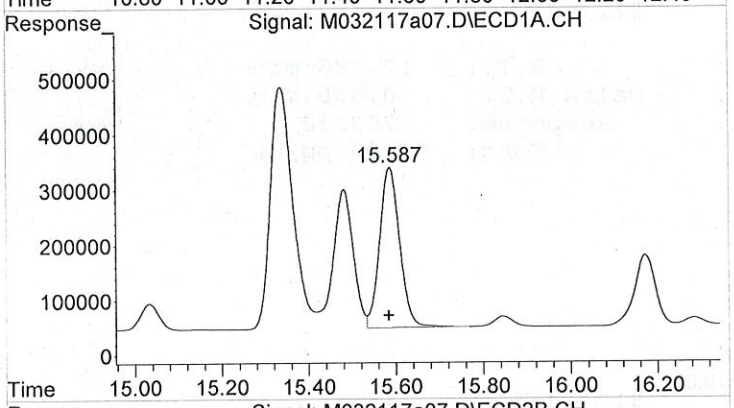
#9 1260-3

R.T.: 15.481 min
Delta R.T.: 0.001 min
Response: 251679
Conc: 482.13 pg/uL



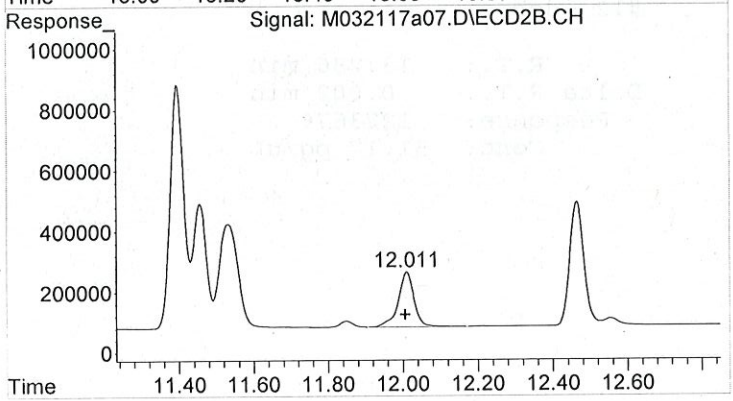
#9 1260-3

R.T.: 11.532 min
Delta R.T.: 0.000 min
Response: 342763
Conc: 491.85 pg/uL



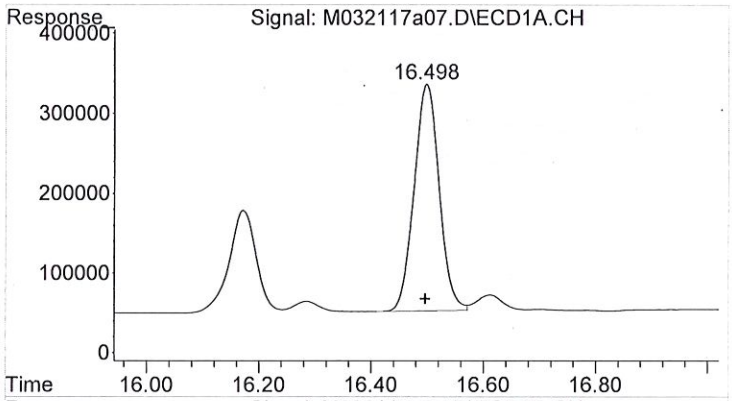
#10 1260-4

R.T.: 15.587 min
Delta R.T.: 0.003 min
Response: 290104
Conc: 483.81 pg/uL



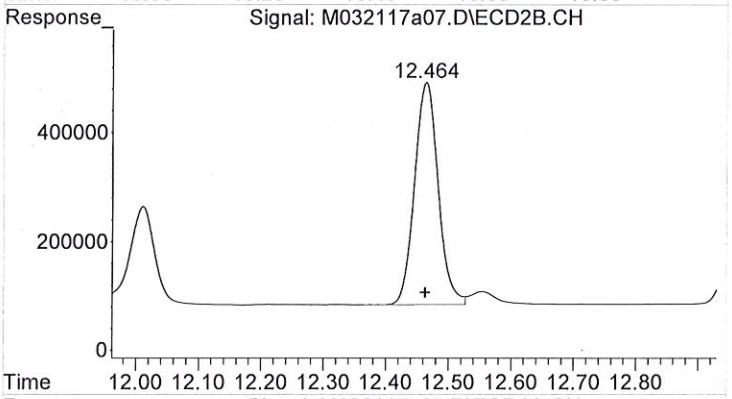
#10 1260-4

R.T.: 12.011 min
Delta R.T.: 0.003 min
Response: 181422
Conc: 504.08 pg/uL



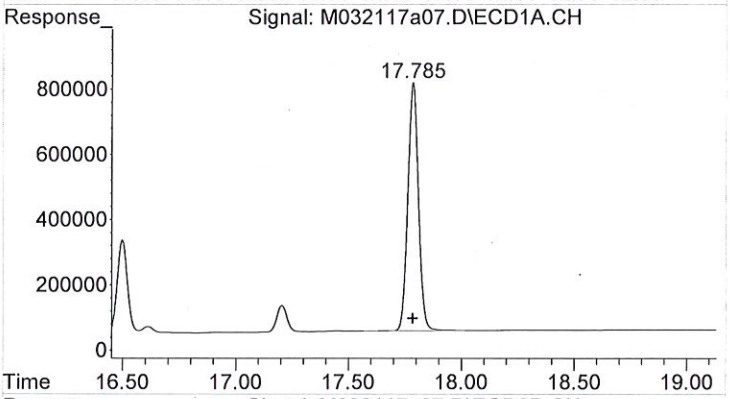
#11 1260-5

R.T.: 16.499 min
Delta R.T.: 0.002 min
Response: 283791
Conc: 488.53 pg/uL



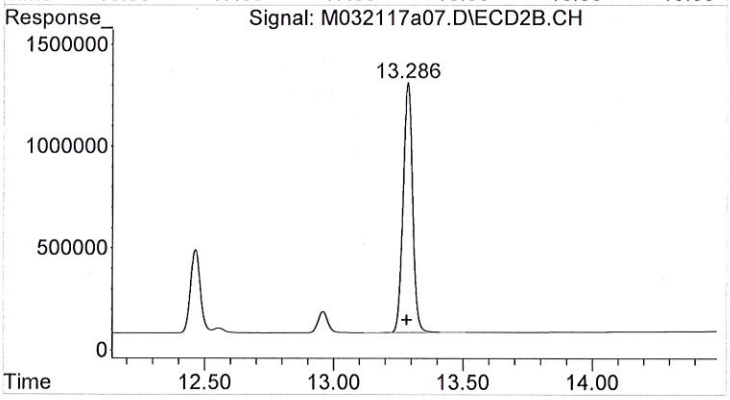
#11 1260-5

R.T.: 12.464 min
Delta R.T.: 0.001 min
Response: 407640
Conc: 497.94 pg/uL



#12 dcb

R.T.: 17.785 min
Delta R.T.: 0.000 min
Response: 759332
Conc: 51.00 pg/uL



#12 dcb

R.T.: 13.286 min
Delta R.T.: 0.002 min
Response: 1223676
Conc: 51.17 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 18:08 pm
Operator : DWOOD
Sample : 87PCB062716F
Misc : PCB 1016/1260 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 7 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:00:32 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
	System Monitoring Compounds							
1)	S2 tmx (1)	6.987	4.801	1381988	2279288	51.968	54.938	
12)	S2 dcb	17.785	13.286	759332	1223676	50.999	51.172	
	Target Compounds							
2)	L1 1016 -1	7.597	5.343	214242	399084	476.215	492.710	
3)	L1 1016-2	8.661	5.807	278559	661506	486.908	497.213	
4)	L1 1016-3	9.315	6.421	351023	976035	487.940	502.217	
5)	L1 1016-4	9.458	6.596	230299	559687	481.449	502.945	
6)	L1 1016-5	9.560	6.680	77443	402147	476.005	499.757	
	Sum 1016 -1			1151566	2998458	2408.517	2494.842	
	Average 1016 -1					481.703	498.968	
7)	L2 1260-1	13.797	10.551	463390	198715	423.626	107.538	#
8)	L2 1260-2	13.895	11.456	259135	409574	194.700	157.678	
9)	L2 1260-3	15.481	11.532	251679	342763	186.463	170.806	
10)	L2 1260-4	15.587	12.011	290104	181422	315.098	56.098	#
11)	L2 1260-5	16.499	12.464	283791	407640	488.525	497.935	
	Sum 1260-1			1548098	1540114	1608.412	990.056	
	Average 1260-1					321.682	198.011	

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

ww
4/18/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 6:32 pm
Operator : DWOOD
Sample : 87PCB062716G
Misc : PCB 1016/1260 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:52:20 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.987	4.800	2526143	4254038	95.409	103.297
12) S2 dcb	17.785	13.284	1349882	2301587	91.645	96.438
Target Compounds						
2) L1 1016 -1	7.596	5.343	390670	724602	1014.218	898.978
3) L1 1016-2	8.660	5.807	496936	1194573	878.557	985.850
4) L1 1016-3	9.313	6.420	639257	1811231	896.976	932.791
5) L1 1016-4	9.456	6.595	427211	1026579	897.145	924.378
6) L1 1016-5	9.559	6.679	132822	750143	1019.002	933.414
Sum 1016 -1			2086896	5507127	4705.898	4675.410
Average 1016 -1					941.180	935.082
7) L2 1260-1	13.795	10.548	829225	382631	886.644	946.823
8) L2 1260-2	13.893	11.455	458407	787364	940.783	943.073
9) L2 1260-3	15.479	11.529	441820	662124	1019.682	950.033
10) L2 1260-4	15.584	12.008	527576	350951	887.716	974.541
11) L2 1260-5	16.497	12.462	511473	801851	889.405	979.068
Sum 1260-1			2768502	2984921	4624.230	4793.537
Average 1260-1					924.846	958.707

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

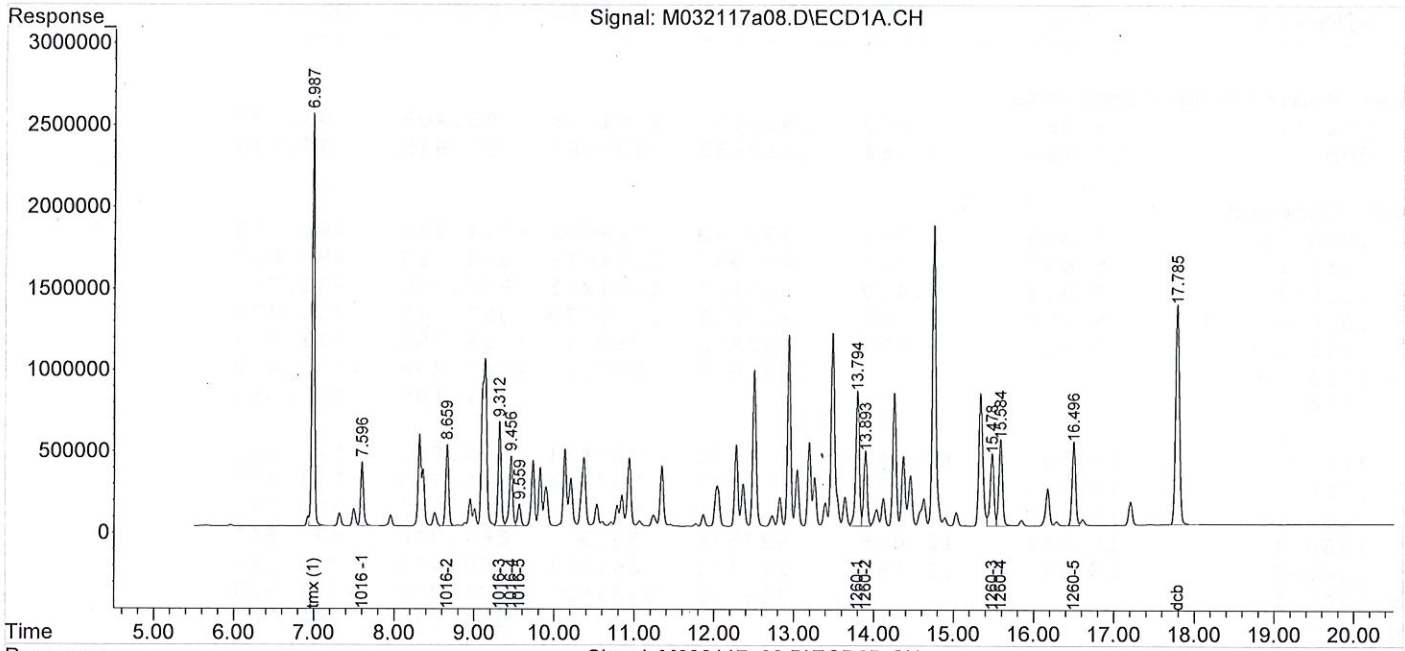
MW
4/24/17

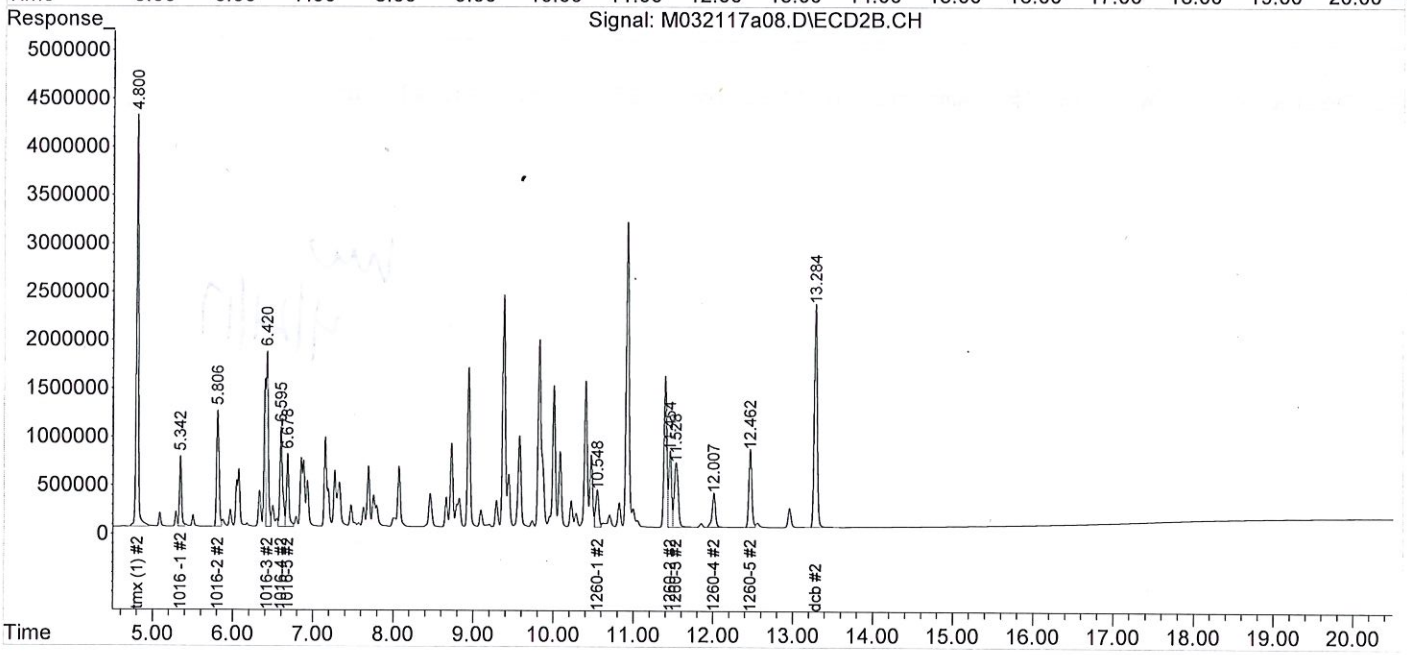
Quantitation Report (QT Reviewed)

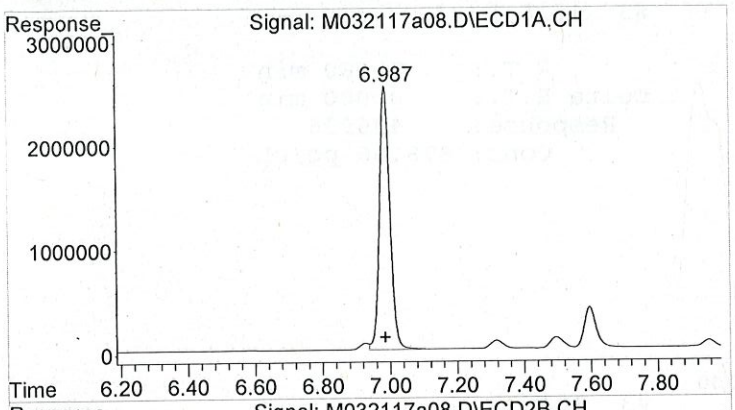
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 6:32 pm
Operator : DWOOD
Sample : 87PCB062716G
Misc : PCB 1016/1260 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:52:20 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

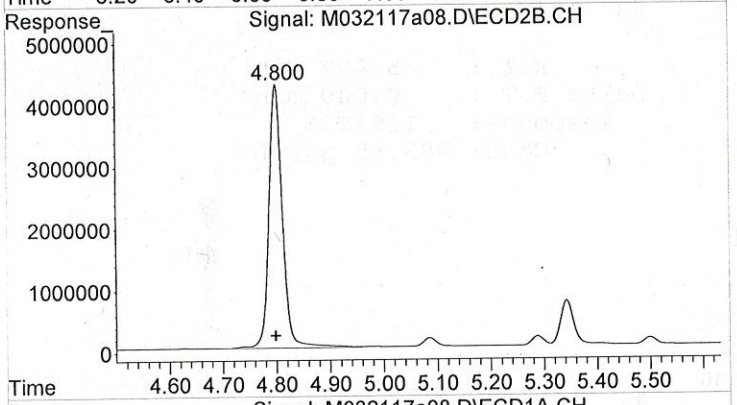






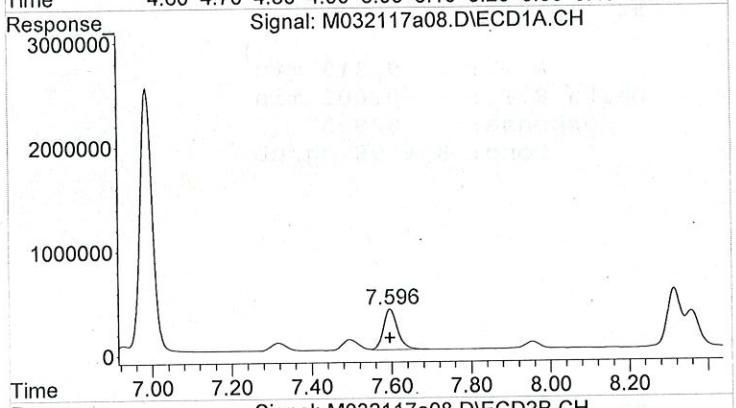
#1 tmx (1)

R.T.: 6.987 min
Delta R.T.: 0.001 min
Response: 2526143
Conc: 95.41 pg/uL



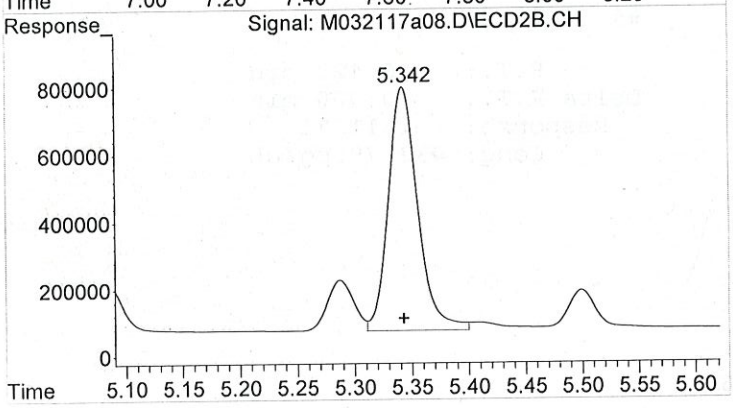
#1 tmx (1)

R.T.: 4.800 min
Delta R.T.: 0.001 min
Response: 4254038
Conc: 103.30 pg/uL



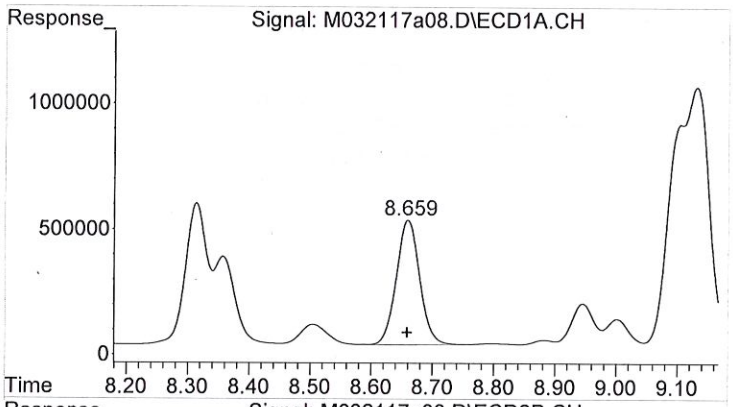
#2 1016 -1

R.T.: 7.596 min
Delta R.T.: 0.000 min
Response: 390670
Conc: 1014.22 pg/uL



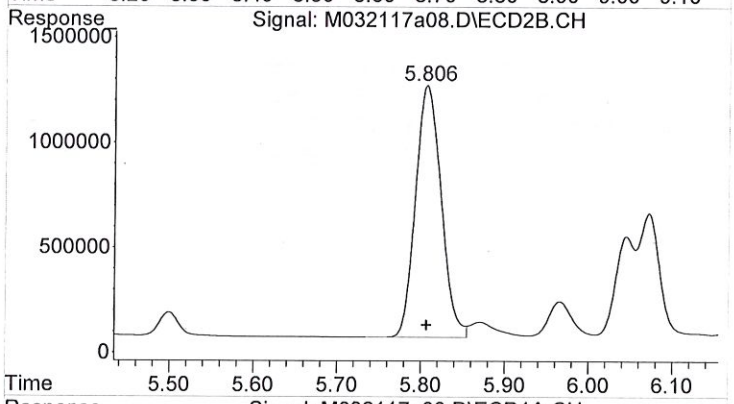
#2 1016 -1

R.T.: 5.343 min
Delta R.T.: 0.000 min
Response: 724602
Conc: 898.98 pg/uL



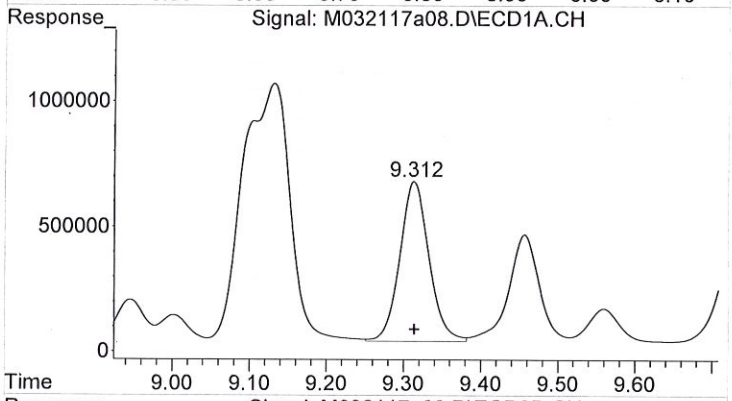
#3 1016-2

R.T.: 8.660 min
Delta R.T.: 0.000 min
Response: 496936
Conc: 878.56 pg/uL



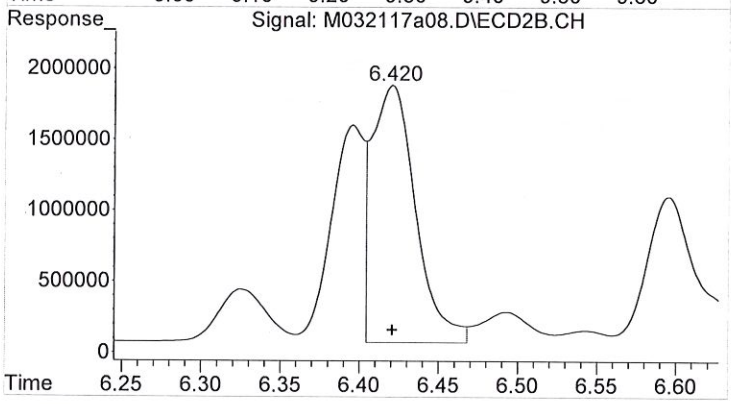
#3 1016-2

R.T.: 5.807 min
Delta R.T.: 0.000 min
Response: 1194573
Conc: 985.85 pg/uL



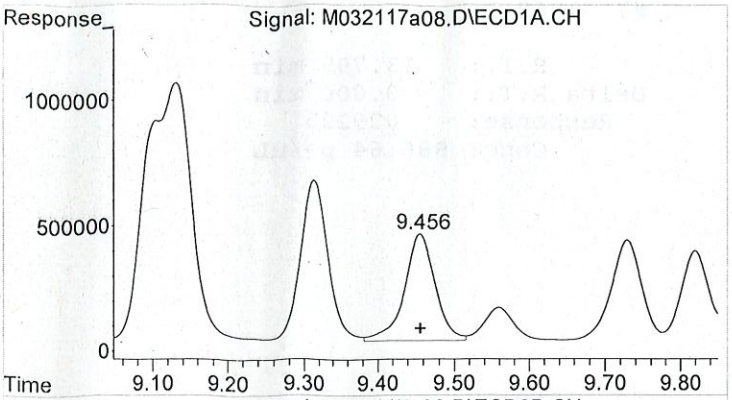
#4 1016-3

R.T.: 9.313 min
Delta R.T.: -0.001 min
Response: 639257
Conc: 896.98 pg/uL



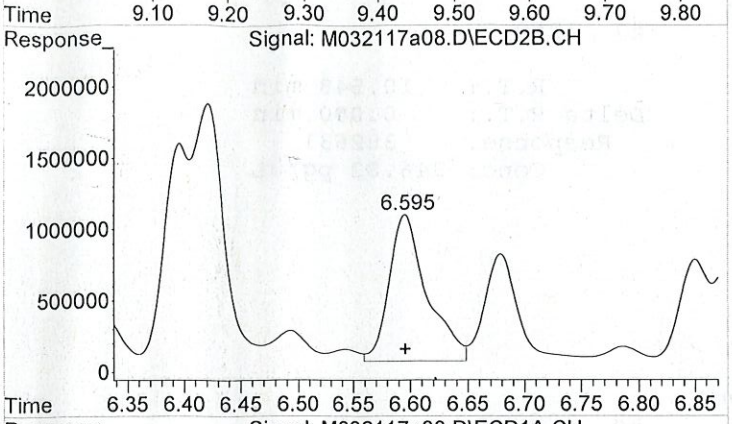
#4 1016-3

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 1811231
Conc: 932.79 pg/uL



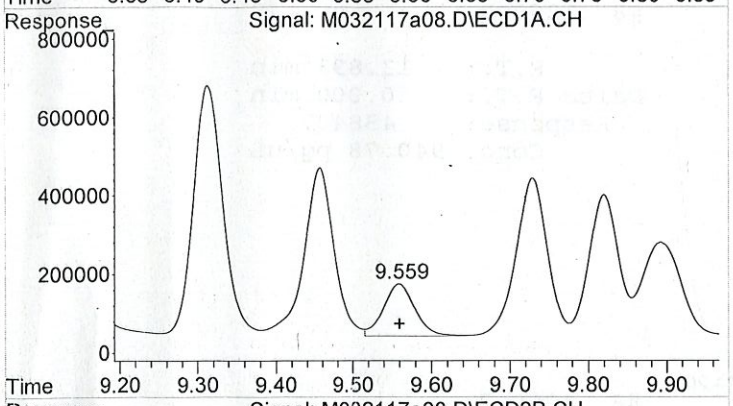
#5 1016-4

R.T.: 9.456 min
Delta R.T.: 0.000 min
Response: 427211
Conc: 897.15 pg/uL



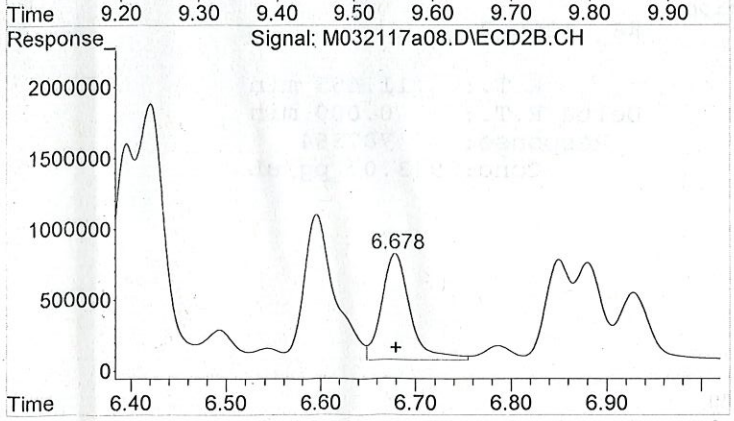
#5 1016-4

R.T.: 6.595 min
Delta R.T.: 0.000 min
Response: 1026579
Conc: 924.38 pg/uL



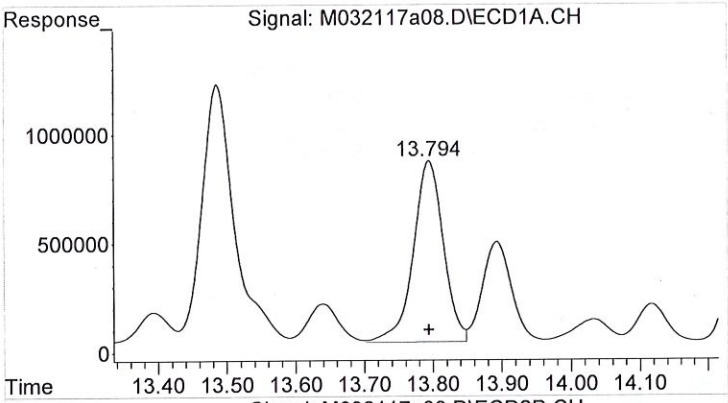
#6 1016-5

R.T.: 9.559 min
Delta R.T.: 0.000 min
Response: 132822
Conc: 1019.00 pg/uL



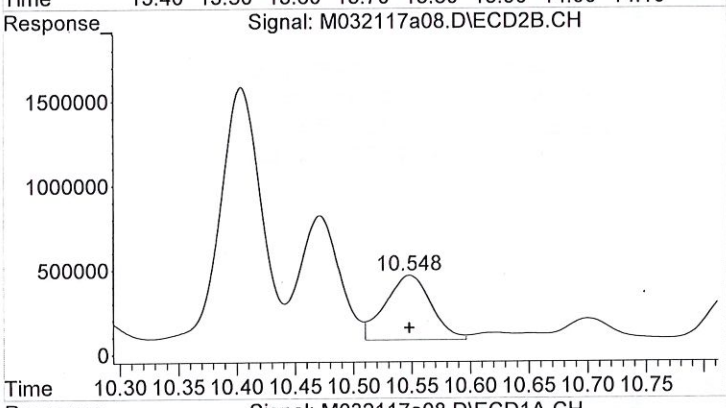
#6 1016-5

R.T.: 6.679 min
Delta R.T.: -0.001 min
Response: 750143
Conc: 933.41 pg/uL



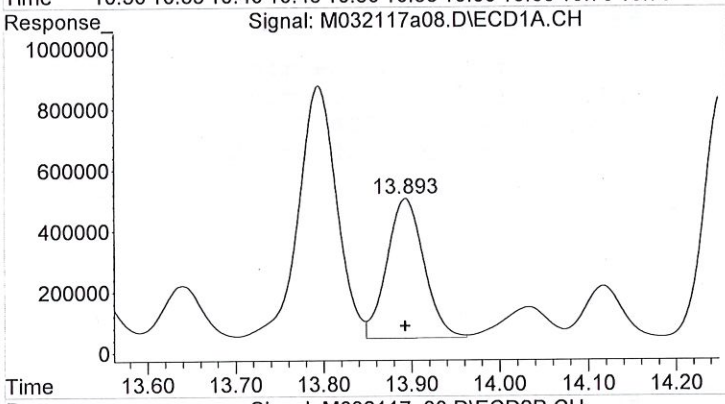
#7 1260-1

R.T.: 13.795 min
Delta R.T.: 0.000 min
Response: 829225
Conc: 886.64 pg/uL



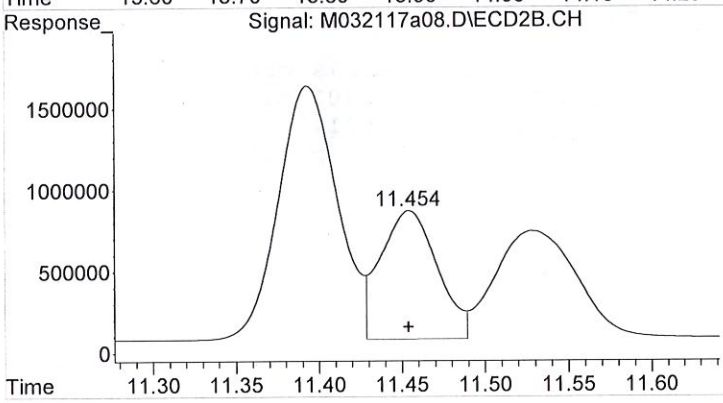
#7 1260-1

R.T.: 10.548 min
Delta R.T.: 0.000 min
Response: 382631
Conc: 946.82 pg/uL



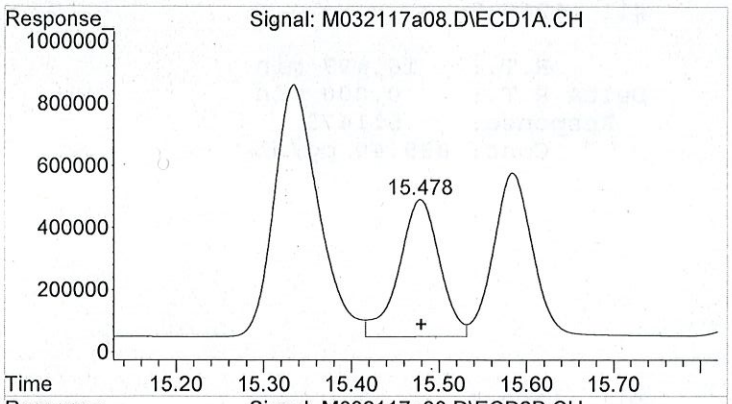
#8 1260-2

R.T.: 13.893 min
Delta R.T.: 0.000 min
Response: 458407
Conc: 940.78 pg/uL



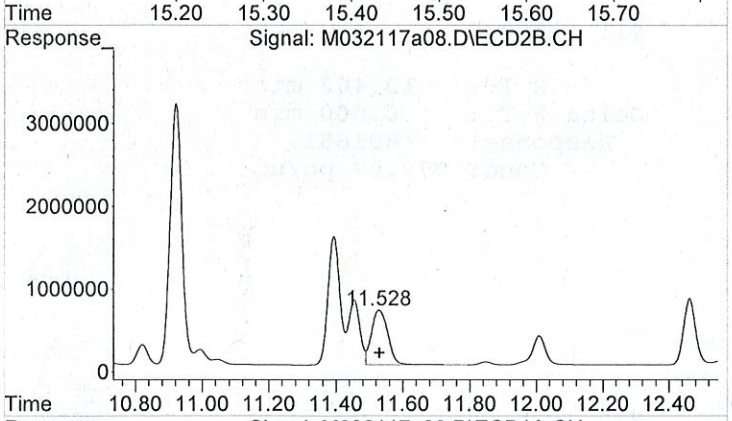
#8 1260-2

R.T.: 11.455 min
Delta R.T.: 0.000 min
Response: 787364
Conc: 943.07 pg/uL



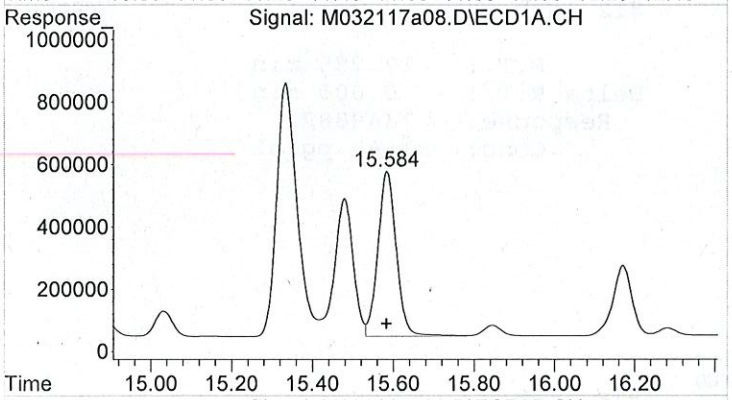
#9 1260-3

R.T.: 15.479 min
Delta R.T.: -0.001 min
Response: 441820
Conc: 1019.68 pg/uL



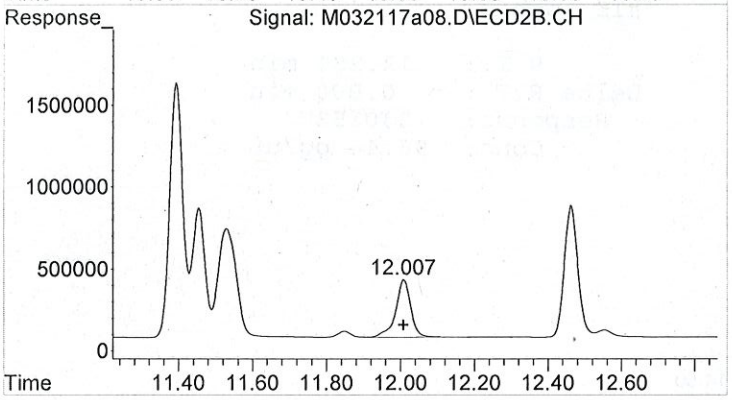
#9 1260-3

R.T.: 11.529 min
Delta R.T.: -0.002 min
Response: 662124
Conc: 950.03 pg/uL



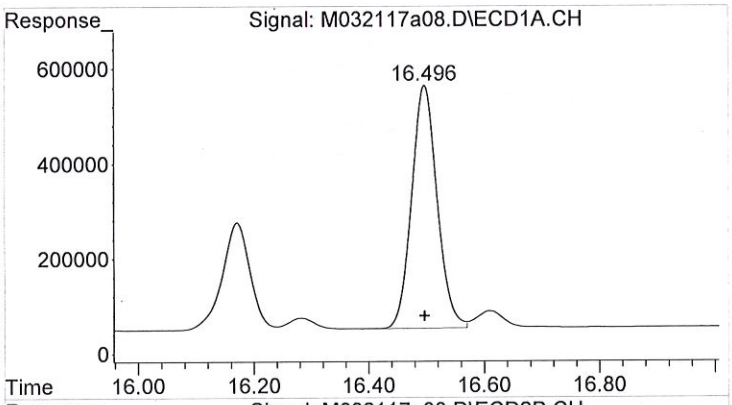
#10 1260-4

R.T.: 15.584 min
Delta R.T.: 0.000 min
Response: 527576
Conc: 887.72 pg/uL



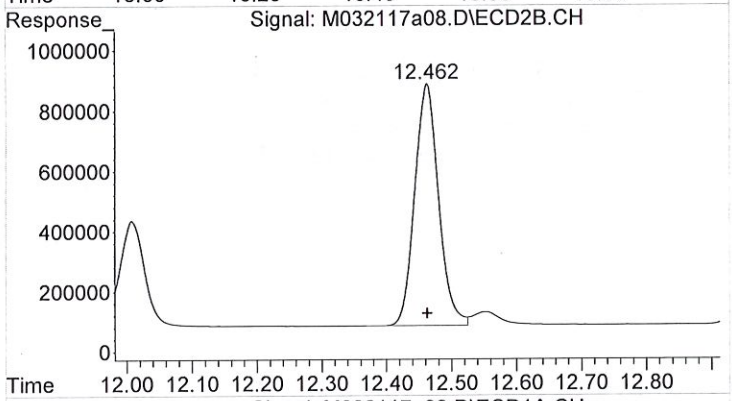
#10 1260-4

R.T.: 12.008 min
Delta R.T.: 0.000 min
Response: 350951
Conc: 974.54 pg/uL



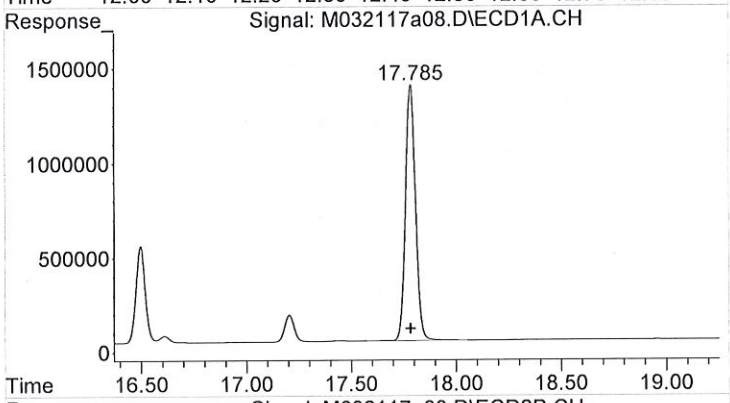
#11 1260-5

R.T.: 16.497 min
Delta R.T.: 0.000 min
Response: 511473
Conc: 889.40 pg/uL



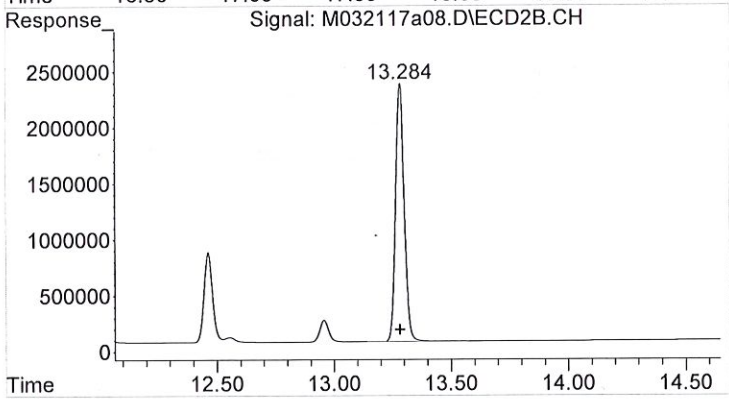
#11 1260-5

R.T.: 12.462 min
Delta R.T.: 0.000 min
Response: 801851
Conc: 979.07 pg/uL



#12 dcb

R.T.: 17.785 min
Delta R.T.: 0.000 min
Response: 1349882
Conc: 91.65 pg/uL



#12 dcb

R.T.: 13.284 min
Delta R.T.: 0.000 min
Response: 2301587
Conc: 96.44 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 18:32 pm
Operator : DWOOD
Sample : 87PCB062716G
Misc : PCB 1016/1260 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 8 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:00:41 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
	System Monitoring Compounds							
1)	S2 tmx (1)	6.987	4.800	2526143	4254038	95.409	103.297	
12)	S2 dcb	17.785	13.284	1349882	2301587	91.645	96.438	
	Target Compounds							
2)	L1 1016 -1	7.596	5.343	390670	724602	1014.218	898.978	
3)	L1 1016-2	8.660	5.807	496936	1194573	878.557	985.850	
4)	L1 1016-3	9.313	6.420	639257	1811231	898.066	932.791	
5)	L1 1016-4	9.456	6.595	427211	1026579	901.343	924.378	
6)	L1 1016-5	9.559	6.679	132822	750143	1032.314	933.414	
	Sum 1016 -1			2086896	5507127	4724.498	4675.410	
	Average 1016 -1					944.900	935.082	
7)	L2 1260-1	13.795	10.548	829225	382631	769.098	209.858	#
8)	L2 1260-2	13.893	11.455	458407	787364	353.569	304.100	
9)	L2 1260-3	15.479	11.529	441820	662124	335.623	328.441	
10)	L2 1260-4	15.584	12.008	527576	350951	581.901	106.573	#
11)	L2 1260-5	16.497	12.462	511473	801851	889.405	979.068	
	Sum 1260-1			2768502	2984921	2929.595	1928.040	
	Average 1260-1					585.919	385.608	

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

lw
4/18/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 6:57 pm
Operator : DWOOD
Sample : 87PCB062716H
Misc : PCB 1016/1260 ICAL 2500 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:52:40 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.986	4.801	6204131	9733566	235.054	237.483
12) S2 dcb	17.787	13.285	3421626	5462199	234.239	229.164
Target Compounds						
2) L1 1016 -1	7.595	5.342	915468	1583909	BelowCal	1971.451 #
3) L1 1016-2	8.659	5.807	1180281	2552744	2104.110	BelowCal #
4) L1 1016-3	9.314	6.420	1505510	4159906	2127.713	2143.619
5) L1 1016-4	9.455	6.595	1013555	2335627	2140.285	2105.967
6) L1 1016-5	9.558	6.678	298958	1777760	BelowCal	2213.981 #
Sum 1016 -1			3699346	9857202	6370.108	8434.019
Average 1016 -1					2123.369	2108.505
7) L2 1260-1	13.794	10.549	1989144	931095	2144.906	2301.773
8) L2 1260-2	13.892	11.455	1098944	1812107	2283.769	2173.188
9) L2 1260-3	15.479	11.530	1090031	1617403	BelowCal	2320.555 #
10) L2 1260-4	15.586	12.008	1282136	867966	2171.103	2409.322
11) L2 1260-5	16.497	12.461	1230094	1965667	2154.684	2399.498
Sum 1260-1			5600317	7194238	8753.463	11604.336
Average 1260-1					2188.366	2320.867

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

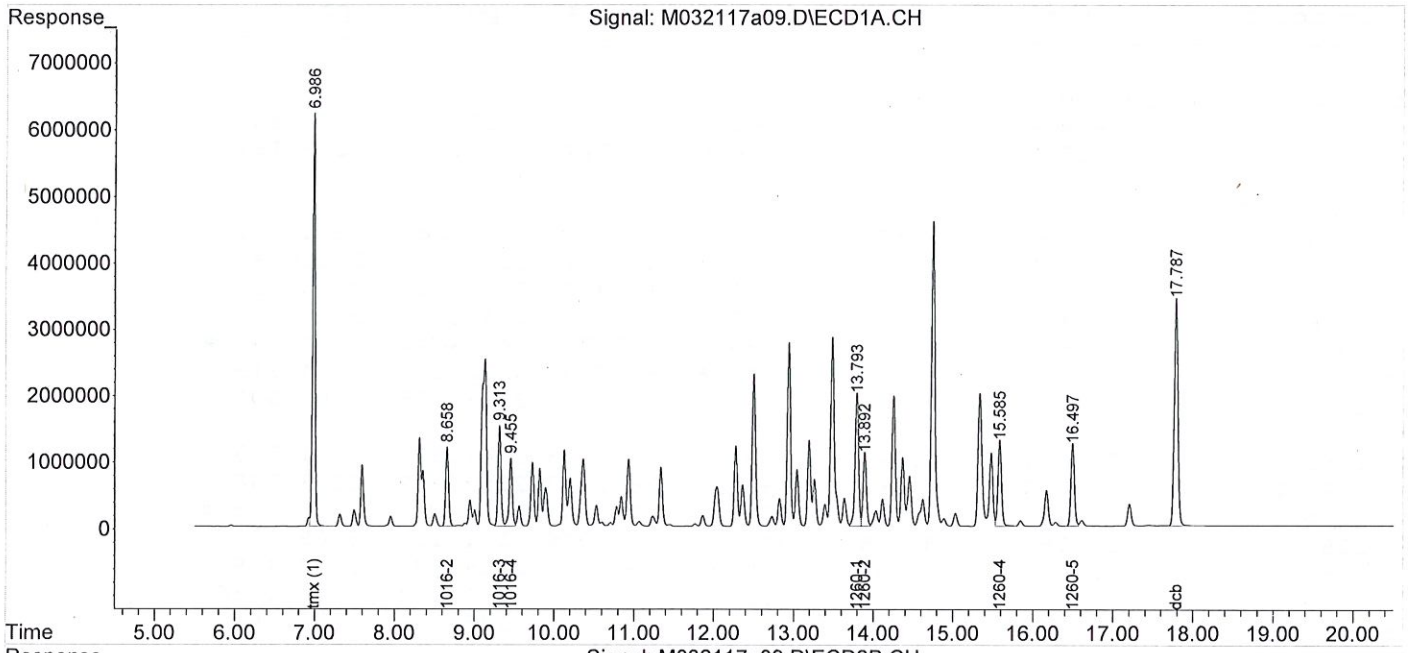
hw
4/24/17

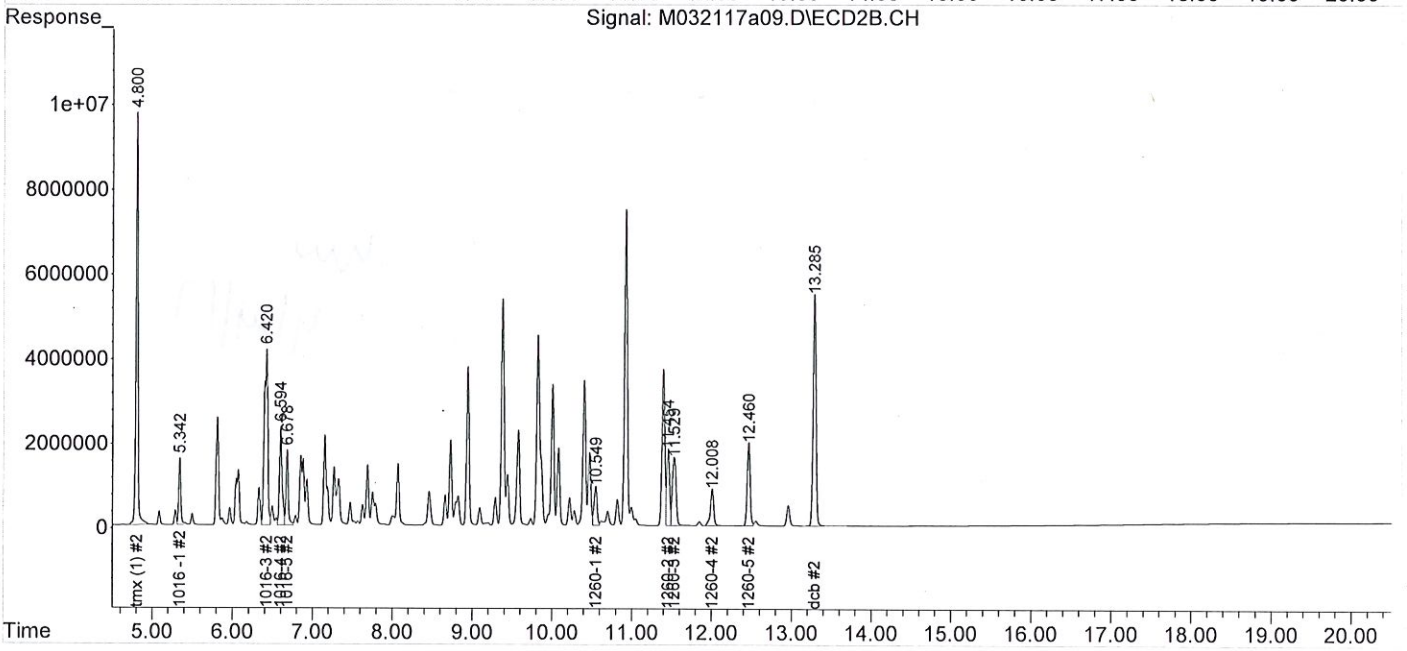
Quantitation Report (QT Reviewed)

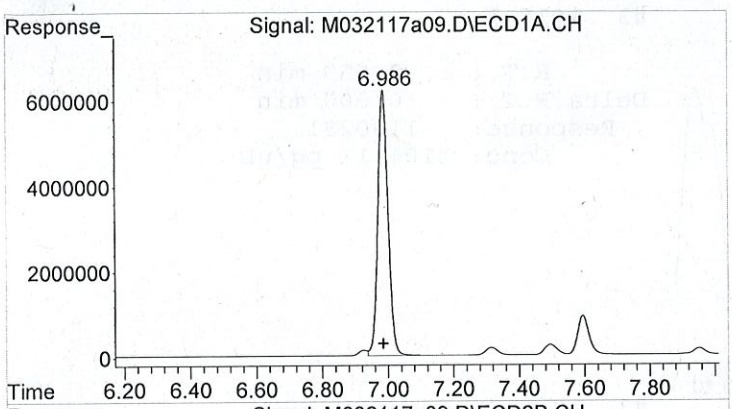
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 6:57 pm
Operator : DWOOD
Sample : 87PCB062716H
Misc : PCB 1016/1260 ICAL 2500 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 13:52:40 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

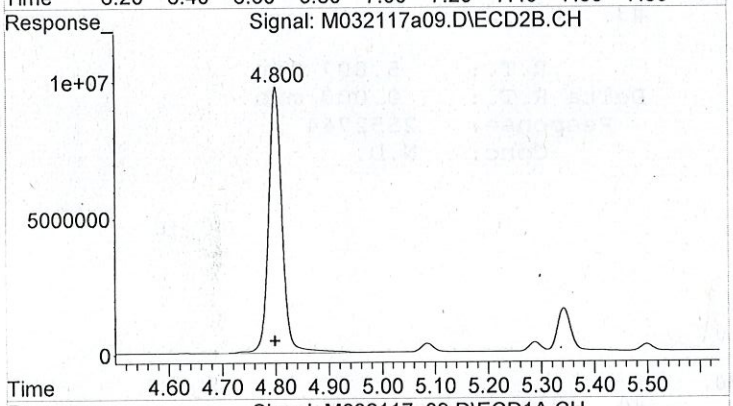






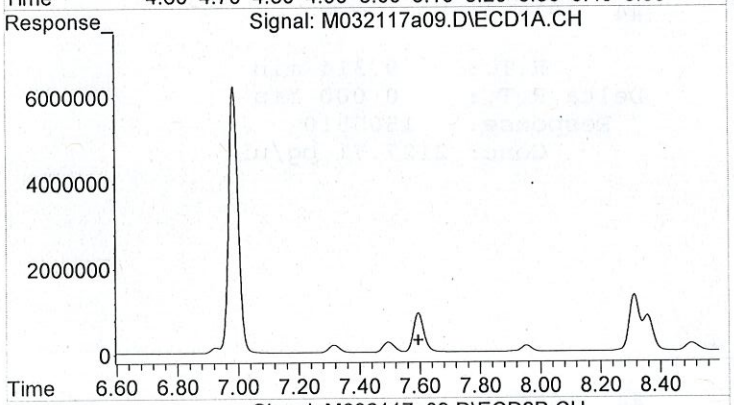
#1 tmx (1)

R.T.: 6.986 min
Delta R.T.: 0.000 min
Response: 6204131
Conc: 235.05 pg/uL



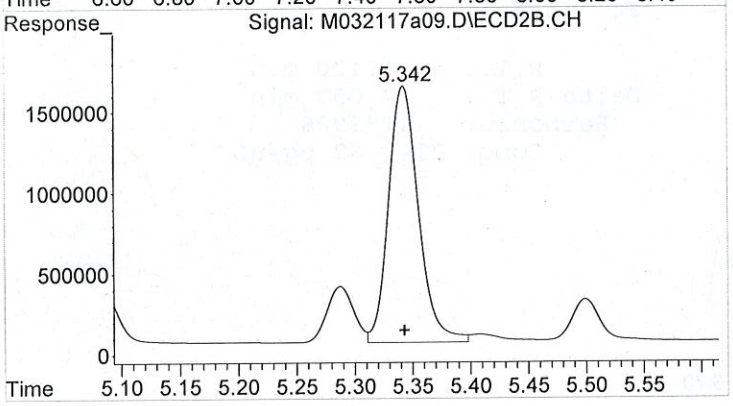
#1 tmx (1)

R.T.: 4.801 min
Delta R.T.: 0.002 min
Response: 9733566
Conc: 237.48 pg/uL



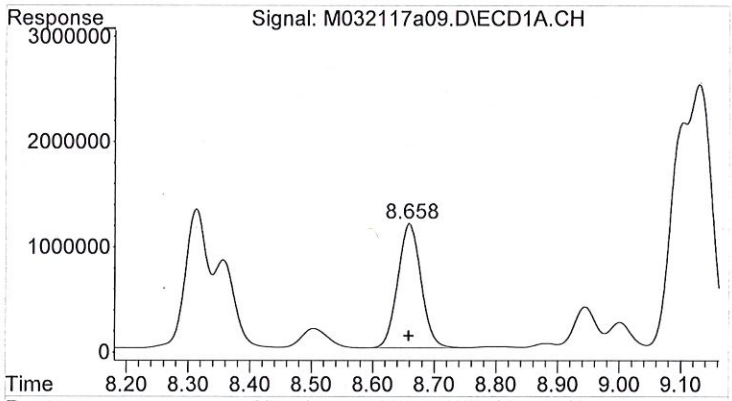
#2 1016 -1

R.T.: 7.595 min
Delta R.T.: 0.000 min
Response: 915468
Conc: N.D.



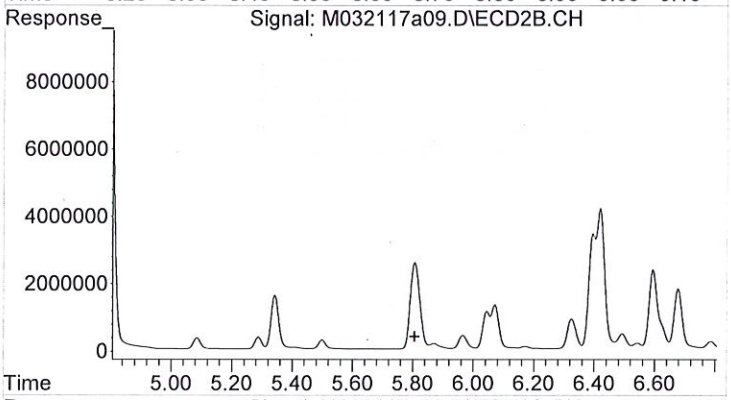
#2 1016 -1

R.T.: 5.342 min
Delta R.T.: 0.000 min
Response: 1583909
Conc: 1971.45 pg/uL



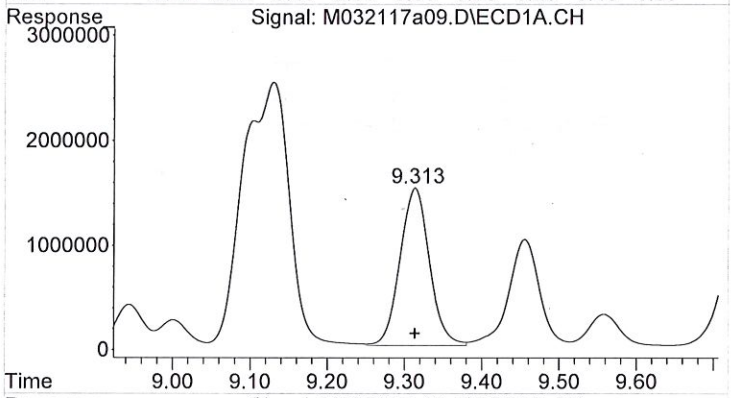
#3 1016-2

R.T.: 8.659 min
Delta R.T.: 0.000 min
Response: 1180281
Conc: 2104.11 pg/uL



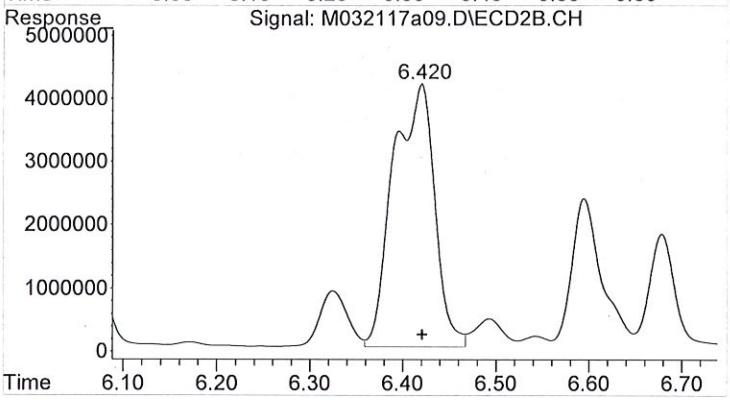
#3 1016-2

R.T.: 5.807 min
Delta R.T.: 0.000 min
Response: 2552744
Conc: N.D.



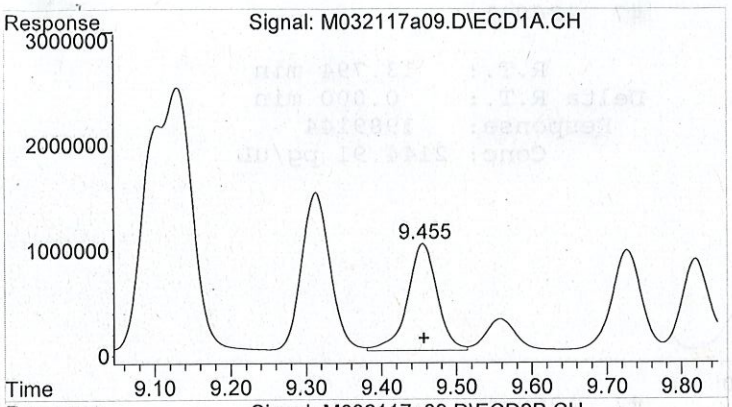
#4 1016-3

R.T.: 9.314 min
Delta R.T.: 0.000 min
Response: 1505510
Conc: 2127.71 pg/uL



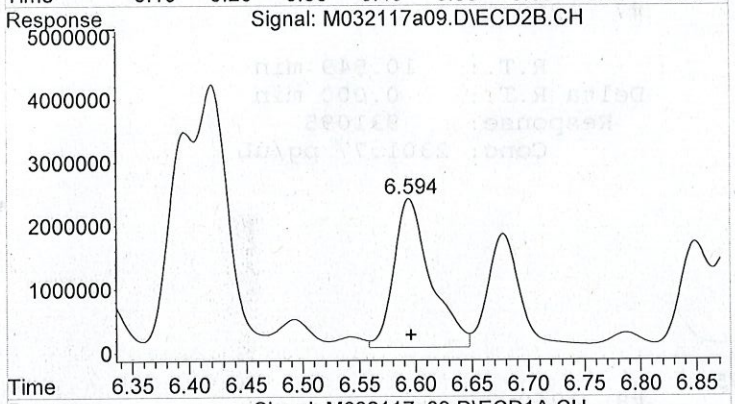
#4 1016-3

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 4159906
Conc: 2143.62 pg/uL



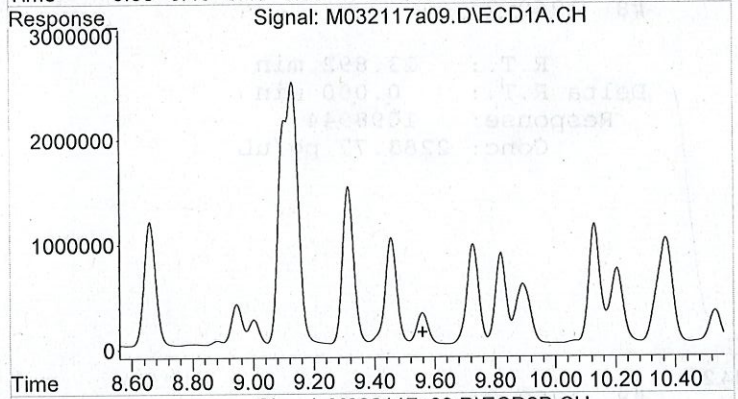
#5 1016-4

R.T.: 9.455 min
Delta R.T.: -0.002 min
Response: 1013555
Conc: 2140.29 pg/uL



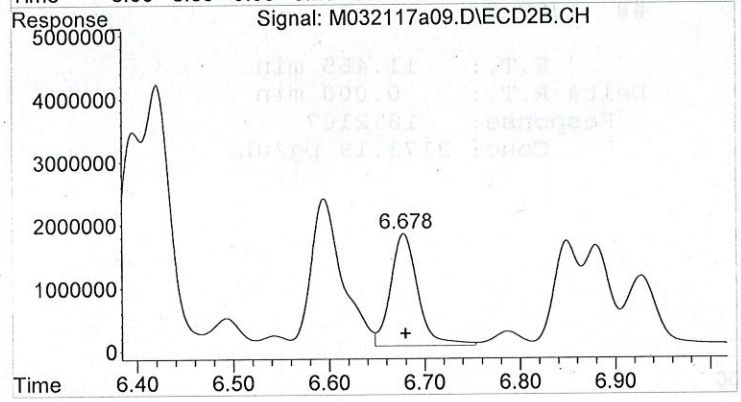
#5 1016-4

R.T.: 6.595 min
Delta R.T.: -0.001 min
Response: 2335627
Conc: 2105.97 pg/uL



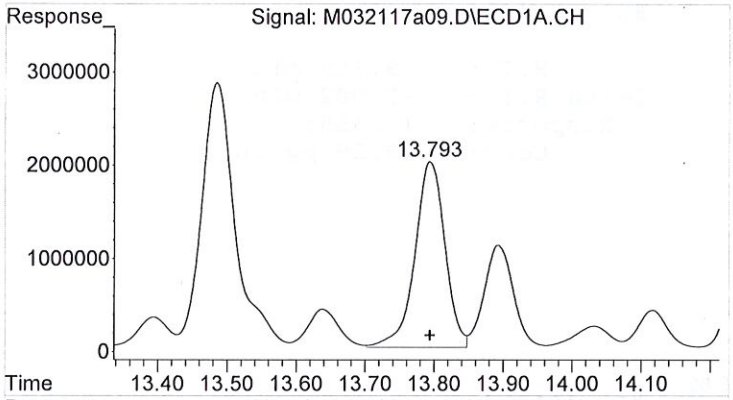
#6 1016-5

R.T.: 9.558 min
Delta R.T.: -0.002 min
Response: 298958
Conc: N.D.



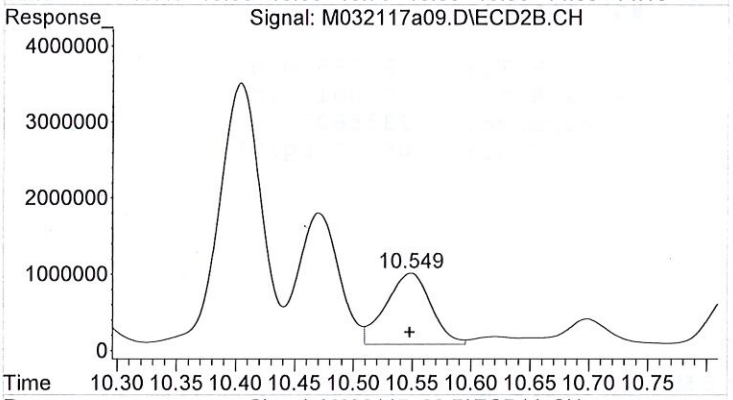
#6 1016-5

R.T.: 6.678 min
Delta R.T.: -0.002 min
Response: 1777760
Conc: 2213.98 pg/uL



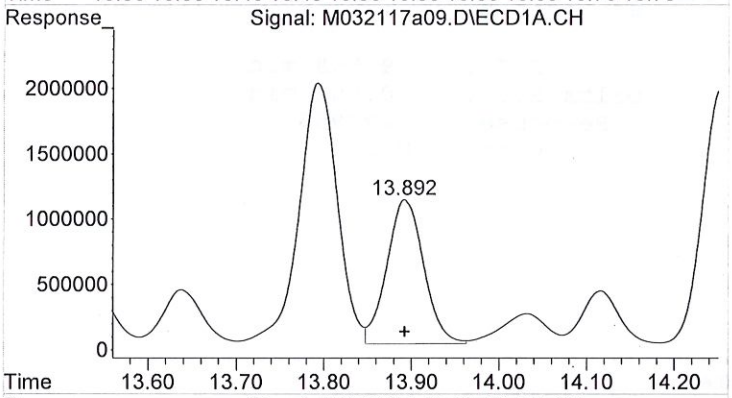
#7 1260-1

R.T.: 13.794 min
Delta R.T.: 0.000 min
Response: 1989144
Conc: 2144.91 pg/uL



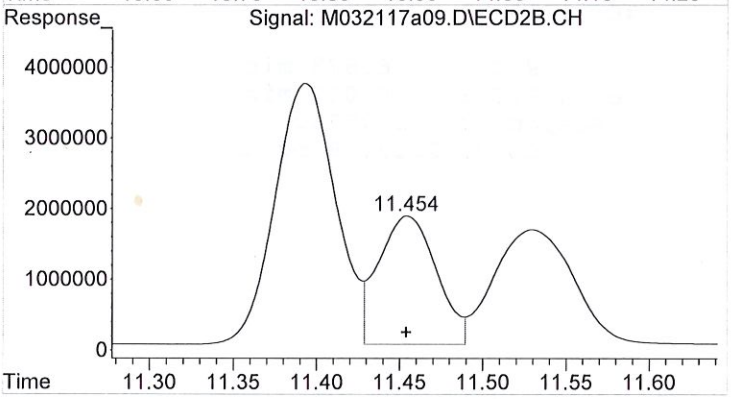
#7 1260-1

R.T.: 10.549 min
Delta R.T.: 0.000 min
Response: 931095
Conc: 2301.77 pg/uL



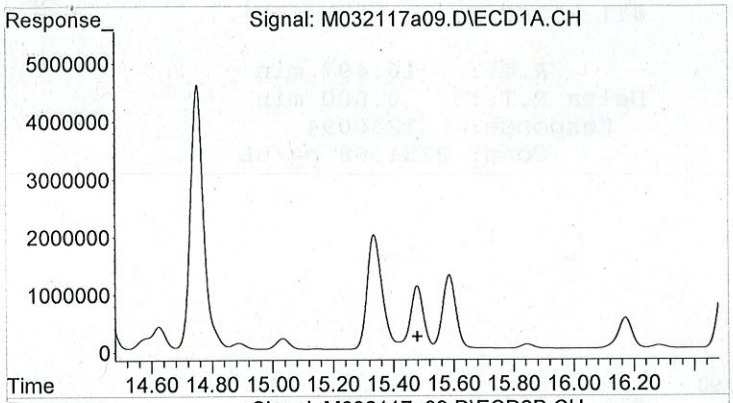
#8 1260-2

R.T.: 13.892 min
Delta R.T.: 0.000 min
Response: 1098944
Conc: 2283.77 pg/uL



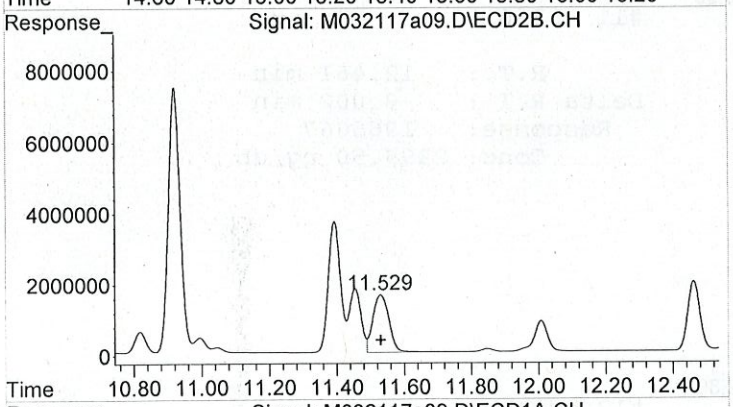
#8 1260-2

R.T.: 11.455 min
Delta R.T.: 0.000 min
Response: 1812107
Conc: 2173.19 pg/uL



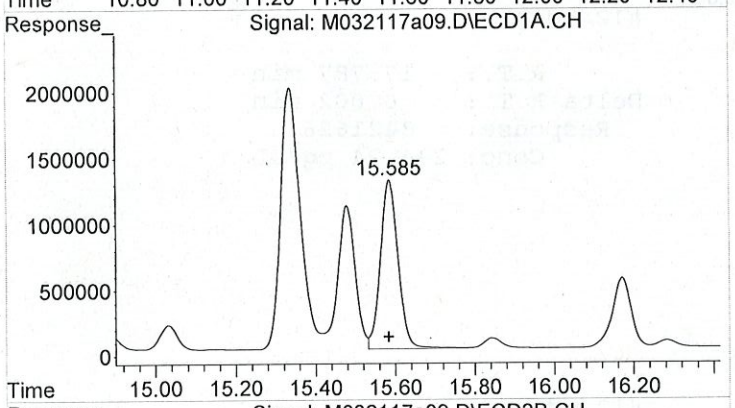
#9 1260-3

R.T.: 15.479 min
Delta R.T.: -0.001 min
Response: 1090031
Conc: N.D.



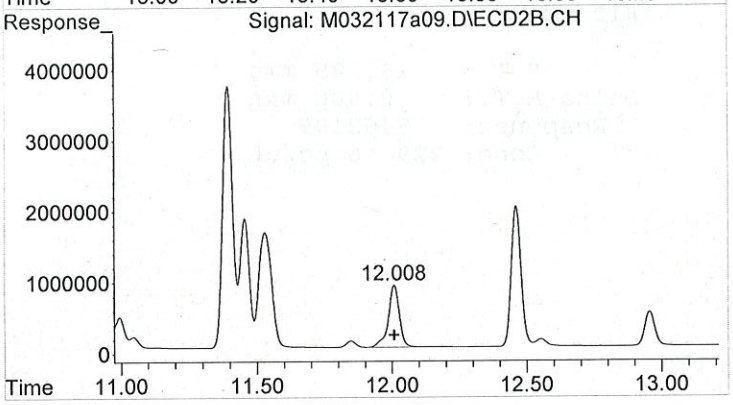
#9 1260-3

R.T.: 11.530 min
Delta R.T.: -0.001 min
Response: 1617403
Conc: 2320.56 pg/uL



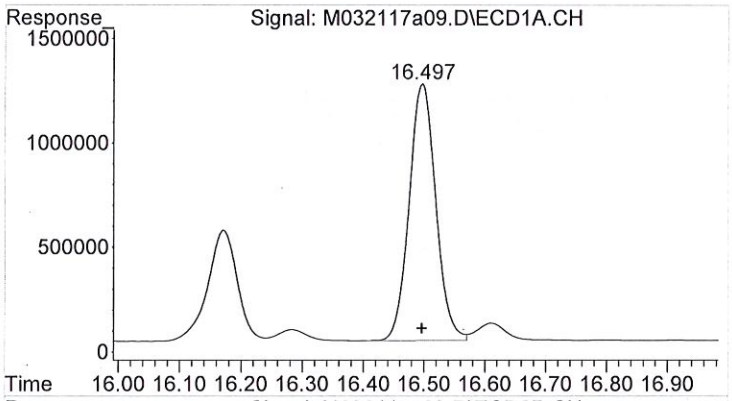
#10 1260-4

R.T.: 15.586 min
Delta R.T.: 0.002 min
Response: 1282136
Conc: 2171.10 pg/uL



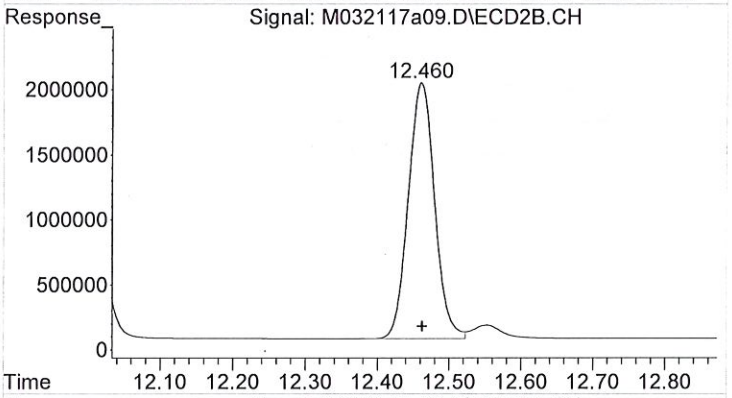
#10 1260-4

R.T.: 12.008 min
Delta R.T.: 0.000 min
Response: 867966
Conc: 2409.32 pg/uL



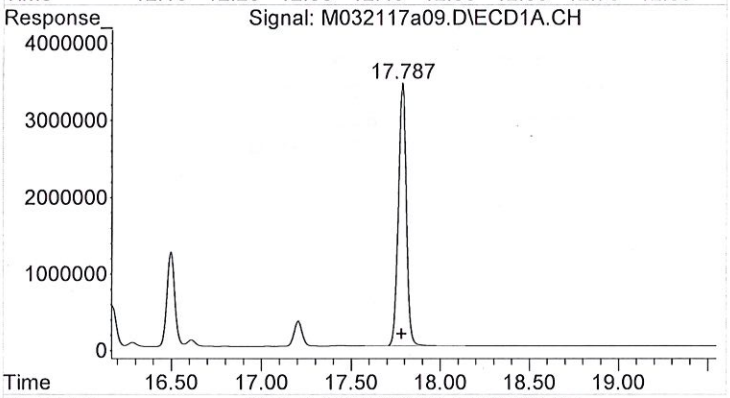
#11 1260-5

R.T.: 16.497 min
Delta R.T.: 0.000 min
Response: 1230094
Conc: 2154.68 pg/uL



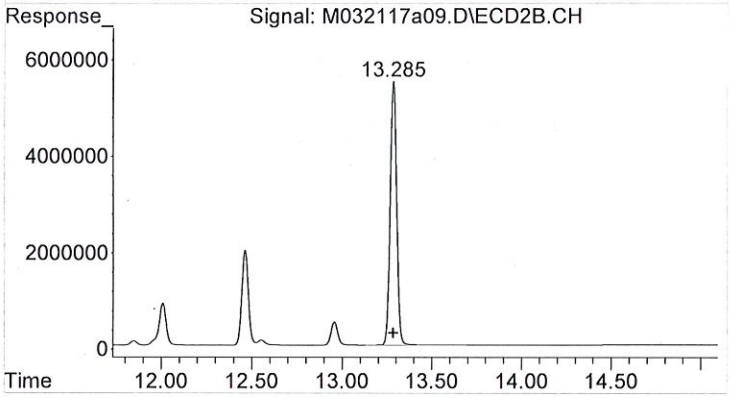
#11 1260-5

R.T.: 12.461 min
Delta R.T.: -0.002 min
Response: 1965667
Conc: 2399.50 pg/uL



#12 dcb

R.T.: 17.787 min
Delta R.T.: 0.002 min
Response: 3421626
Conc: 234.24 pg/uL



#12 dcb

R.T.: 13.285 min
Delta R.T.: 0.000 min
Response: 5462199
Conc: 229.16 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 18:57 pm
Operator : DWOOD
Sample : 87PCB062716H
Misc : PCB 1016/1260 ICAL 2500 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 11:00:51 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 24 09:15:25 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL	
	System Monitoring Compounds							
1)	S2 tmx (1)	6.986	4.801	6204131	9733566	235.054	237.483	
12)	S2 dcb	17.787	13.285	3421626	5462199	234.239	229.164	
	Target Compounds							
2)	L1 1016 -1	7.595	5.342	915468	1583909	BelowCal	1971.451	#
3)	L1 1016-2	8.659	5.807	1180281	2552744	2104.110	BelowCal	#
4)	L1 1016-3	9.314	6.420	1505510	4159906	2130.648	2143.619	
5)	L1 1016-4	9.455	6.595	1013555	2335627	2151.659	2105.967	
6)	L1 1016-5	9.558	6.678	298958	1777760	BelowCal	2213.981	#
	Sum 1016 -1			3699346	9857202	6384.417	8434.019	
	Average 1016 -1					2128.139	2108.505	
7)	L2 1260-1	13.794	10.549	1989144	931095	1864.448	514.991	#
8)	L2 1260-2	13.892	11.455	1098944	1812107	864.233	701.267	
9)	L2 1260-3	15.479	11.530	1090031	1617403	844.124	799.960	
10)	L2 1260-4	15.586	12.008	1282136	867966	1429.657	260.505	#
11)	L2 1260-5	16.497	12.461	1230094	1965667	2154.684	2399.498	
	Sum 1260-1			6690349	7194238	7157.147	4676.221	
	Average 1260-1					1431.429	935.244	

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

ww
4/18/17

PCB SSV Report

Data File....: M032117a10.D
Dataname.....: 87PCB081916I
Analyzed.....: 03/21/2017 19:22

Analyst.....: DWOOD
Instrument.....: Minerva
Analysis Method: 8082A

SSV Level..: 100 pg/uL
ICAL Date..: 03/21/2017

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a10.D
DP Method path...: J:\Organics\Minerva\Methods\M032117PCB1260_41717.M

SSV 1016 100pg/uL

CAS #	Compound	RT	Exp RT	Area	Spike (expected)	Amount (pg)	%Rec	Flag
Surrogate								
	tmx (1)	-	6.99	-	10	-	-	
	dcb	-	17.79	-	10	-	-	
	tmx (1) #2	4.79	4.80	~~7360~~	10	-0.698044		
	dcb #2	-	13.28	-	10	-	-	
Target					Criteria range: 70-130%			
	1016 -1	7.60	7.60	48106	100	91.3	91	
	1016-2	8.66	8.66	58870	100	92.9	93	
	1016-3	9.32	9.31	73780	100	93.6	94	
	1016-4	9.46	9.46	47799	100	92.7	93	
	1016-5	9.56	9.56	17046	100	89.1	89	
	1260-1	-	13.79	-	100	-	-	
	1260-2	-	13.89	-	100	-	-	
	1260-3	-	15.48	-	100	-	-	
	1260-4	-	15.58	-	100	-	-	
	1260-5	-	16.50	-	100	-	-	
	1016 -1 #2	5.34	5.34	73909	100	86.9	87	
	1016-2 #2	5.81	5.81	126286	100	86.1	86	
	1016-3 #2	6.42	6.42	165058	100	84.1	84	
	1016-4 #2	6.60	6.60	97480	100	85.7	86	
	1016-5 #2	6.68	6.68	68095	100	83.5	83	
	1260-1 #2	-	10.55	-	100	-	-	
	1260-2 #2	-	11.45	-	100	-	-	
	1260-3 #2	11.57	11.53	~~1004~~	~~100~~	~~1.54~~	2	<70%
	1260-4 #2	11.99	12.01	~~507~~	~~100~~	~~2.01~~	2	<70%
	1260-5 #2	-	12.46	-	100	-	-	

Average %Recovery:	%Rec	
1016 Column 1 (n=5)	92	
1016 Column 2 (n=5)	85	
1260 Column 1 (n=5)	0	
1260 Column 2 (n=5)	1	<70%

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 7:22 pm
Operator : DWOOD
Sample : 87PCB081916I
Misc : SSV 1016 100pg/uL
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 12:22:44 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	4.785	0	7360	N.D.	N.D.
12) S2 dcb	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) L1 1016 -1	7.598	5.343	48106	73909	91.254	86.869
3) L1 1016-2	8.661	5.808	58870	126286	92.903	86.128
4) L1 1016-3	9.315	6.422	73780	165058	93.568	84.129
5) L1 1016-4	9.458	6.597	47799	97480	92.733	85.742
6) L1 1016-5	9.560	6.680	17046	68095	89.084	83.478
Sum 1016 -1			245600	530826	459.543	426.345
Average 1016 -1					91.909	85.269
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	11.567	0	1004	N.D.	1.536 #
10) L2 1260-4	0.000	11.990	0	507	N.D.	2.014 #
11) L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	1511	N.D.	3.550
Average 1260-1					0.000	1.775

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

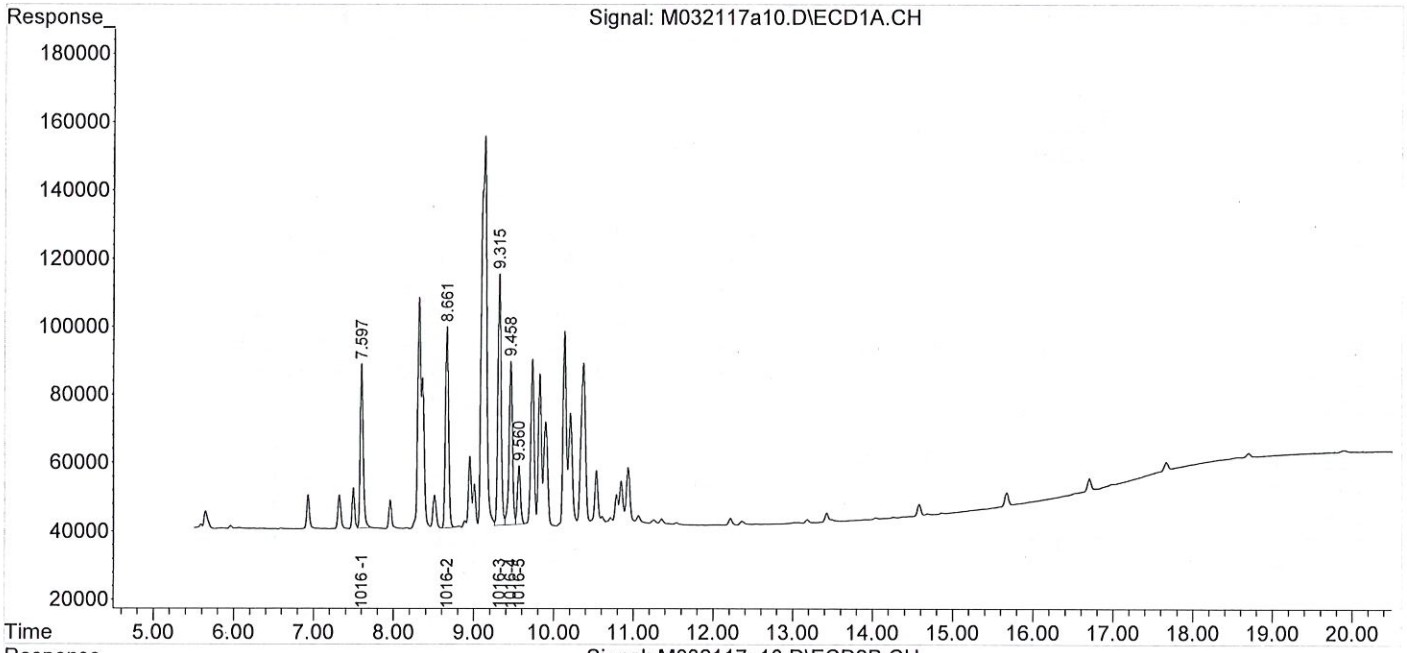
hw
4/24/17

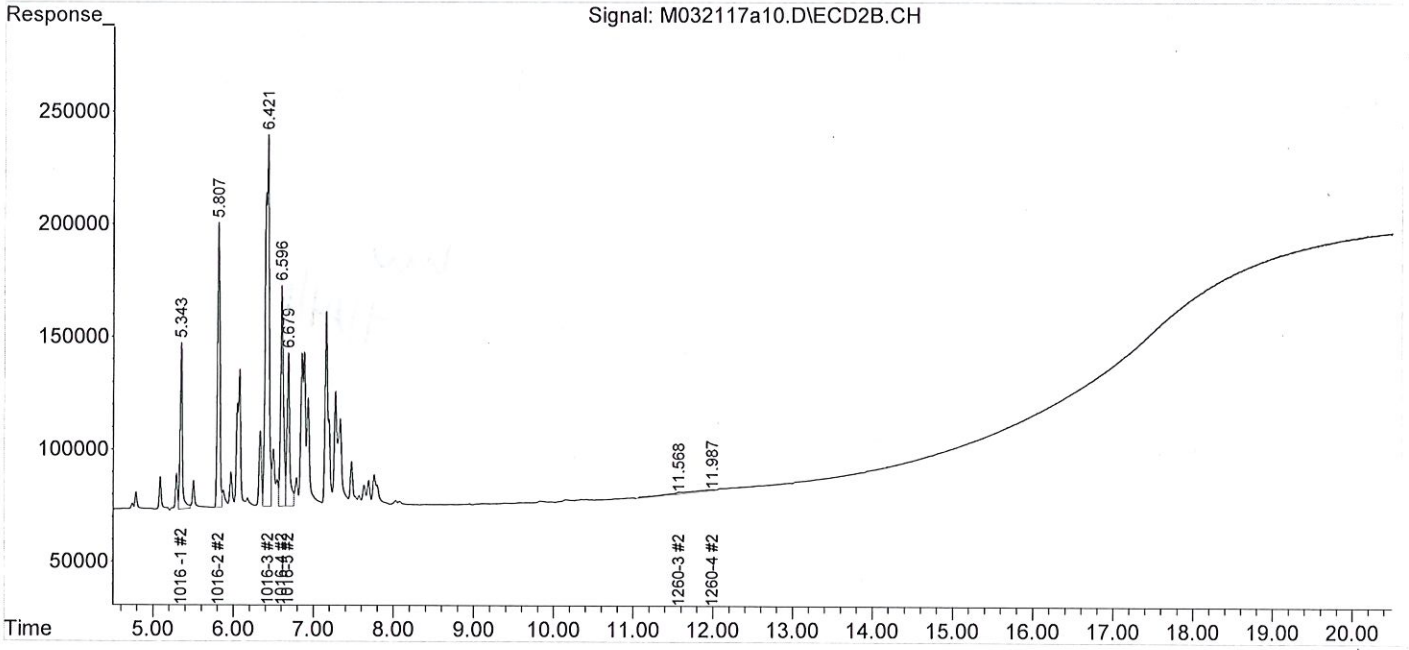
Quantitation Report (Not Reviewed)

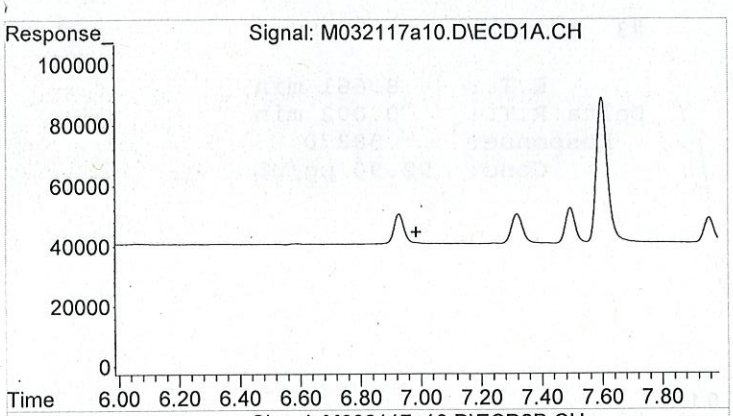
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 7:22 pm
Operator : DWOOD
Sample : 87PCB081916I
Misc : SSV 1016 100pg/uL
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 12:22:44 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

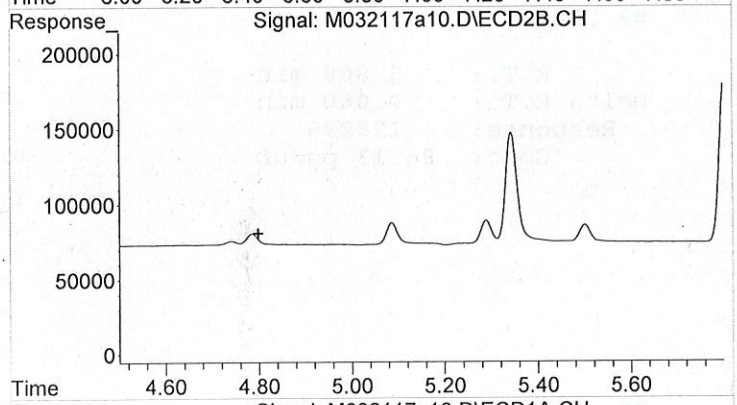






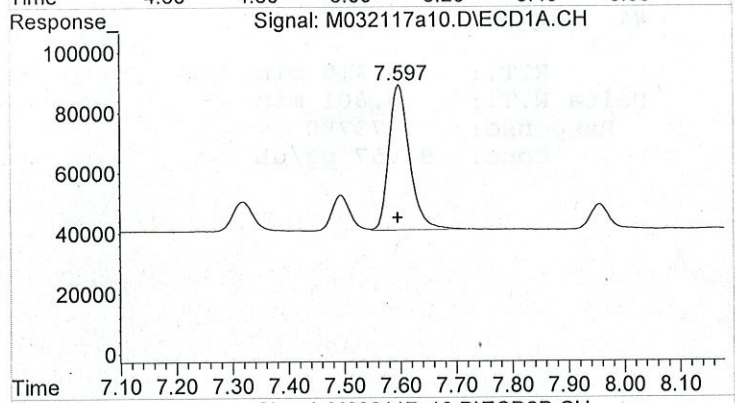
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 6.986 min
Response: 0
Conc: N.D.



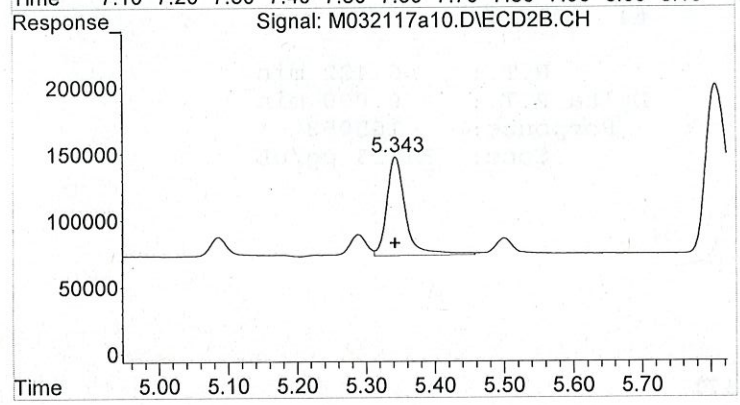
#1 tmx (1)

R.T.: 4.785 min
Delta R.T.: -0.014 min
Response: 7360
Conc: N.D.



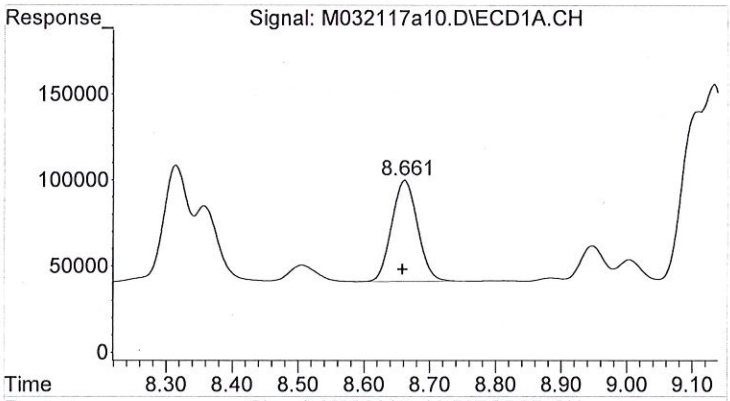
#2 1016 -1

R.T.: 7.598 min
Delta R.T.: 0.002 min
Response: 48106
Conc: 91.25 pg/uL



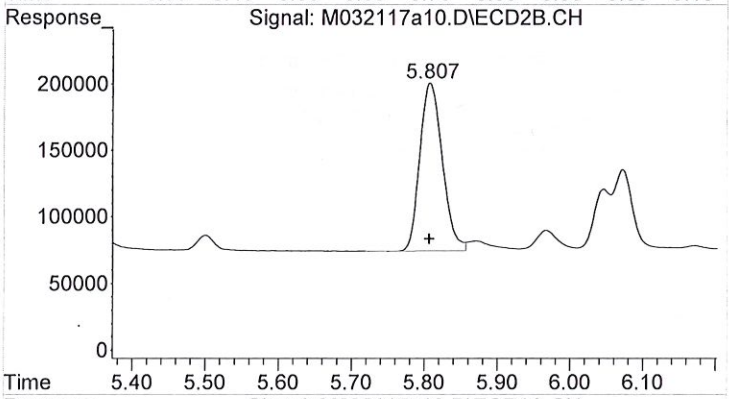
#2 1016 -1

R.T.: 5.343 min
Delta R.T.: 0.000 min
Response: 73909
Conc: 86.87 pg/uL



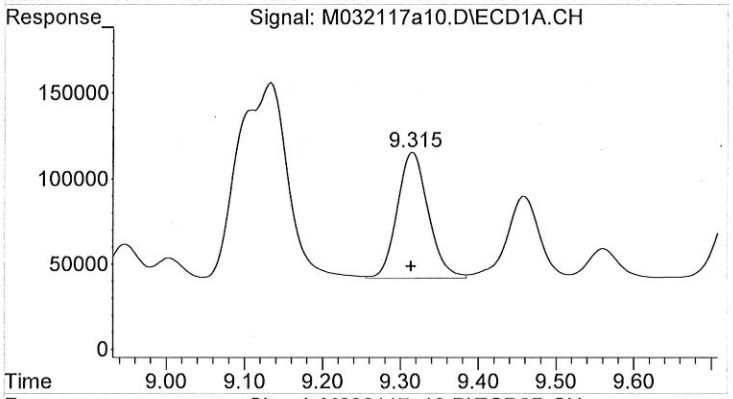
#3 1016-2

R.T.: 8.661 min
Delta R.T.: 0.002 min
Response: 58870
Conc: 92.90 pg/uL



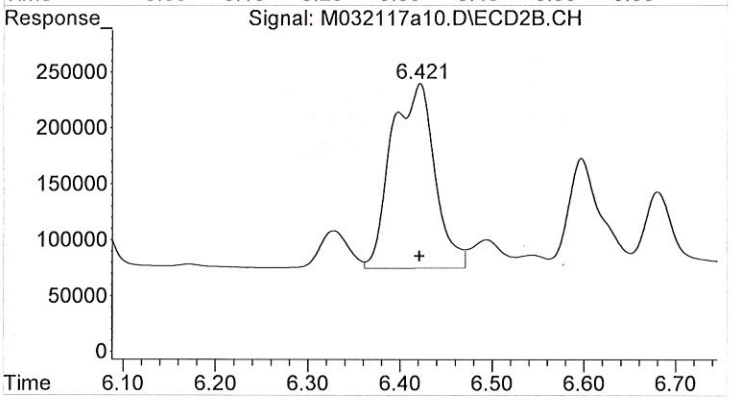
#3 1016-2

R.T.: 5.808 min
Delta R.T.: 0.000 min
Response: 126286
Conc: 86.13 pg/uL



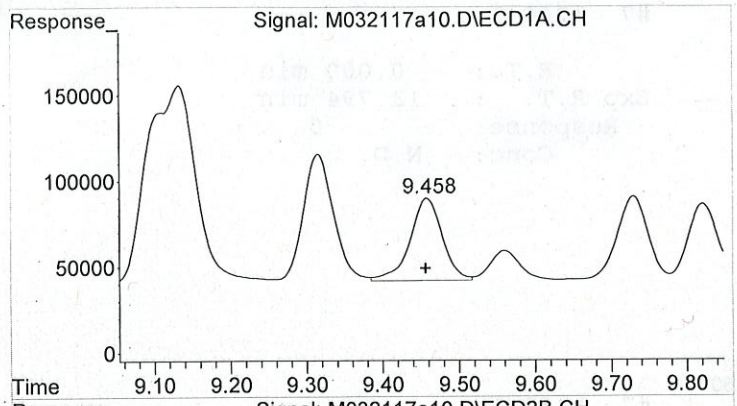
#4 1016-3

R.T.: 9.315 min
Delta R.T.: 0.001 min
Response: 73780
Conc: 93.57 pg/uL



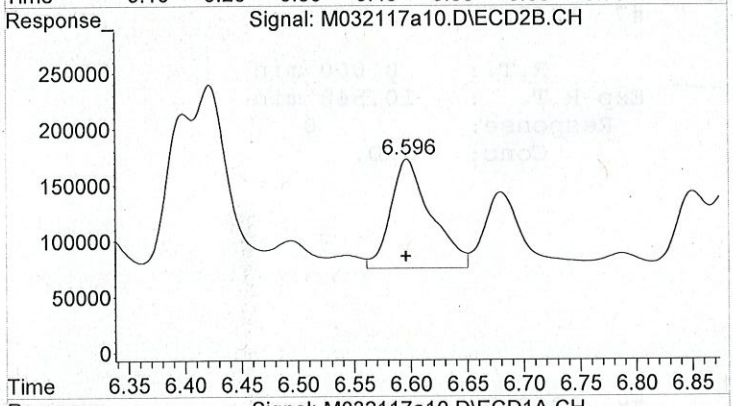
#4 1016-3

R.T.: 6.422 min
Delta R.T.: 0.000 min
Response: 165058
Conc: 84.13 pg/uL



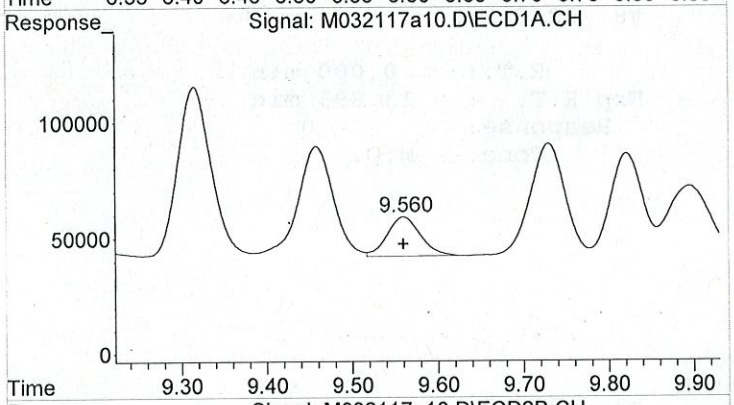
#5 1016-4

R.T.: 9.458 min
Delta R.T.: 0.001 min
Response: 47799
Conc: 92.73 pg/uL



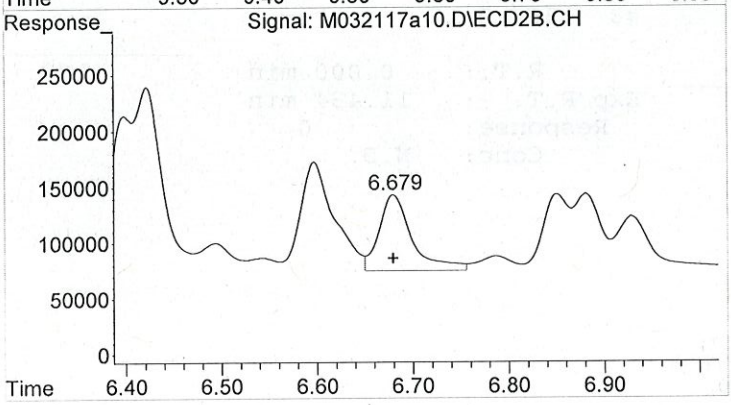
#5 1016-4

R.T.: 6.597 min
Delta R.T.: 0.001 min
Response: 97480
Conc: 85.74 pg/uL



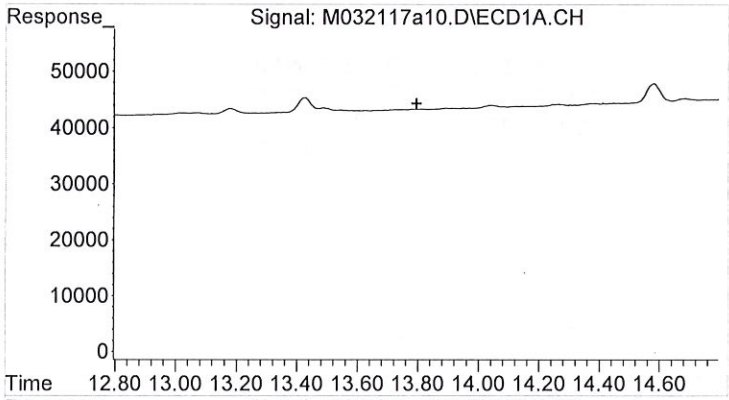
#6 1016-5

R.T.: 9.560 min
Delta R.T.: 0.000 min
Response: 17046
Conc: 89.08 pg/uL



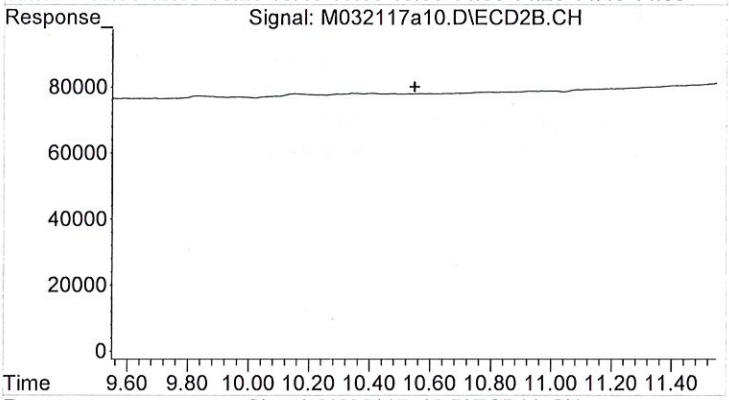
#6 1016-5

R.T.: 6.680 min
Delta R.T.: 0.000 min
Response: 68095
Conc: 83.48 pg/uL



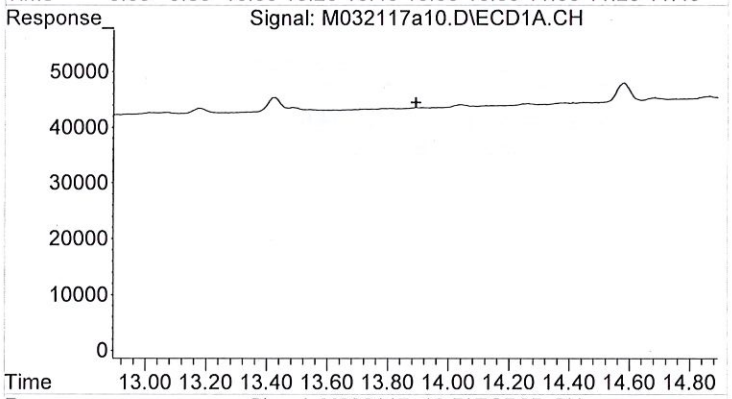
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 13.794 min
Response: 0
Conc: N.D.



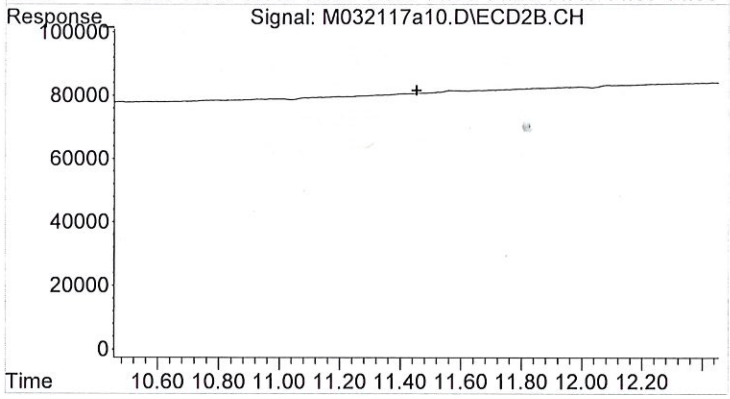
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 10.548 min
Response: 0
Conc: N.D.



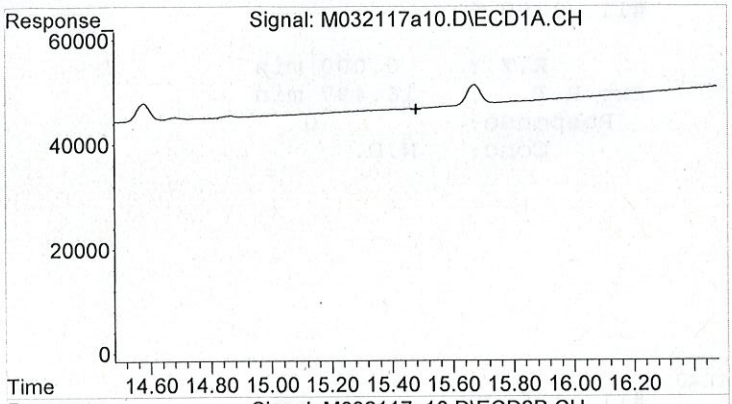
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.893 min
Response: 0
Conc: N.D.



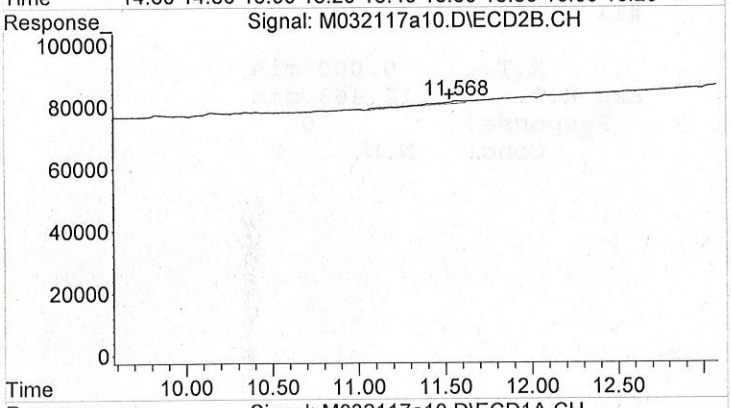
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 11.454 min
Response: 0
Conc: N.D.



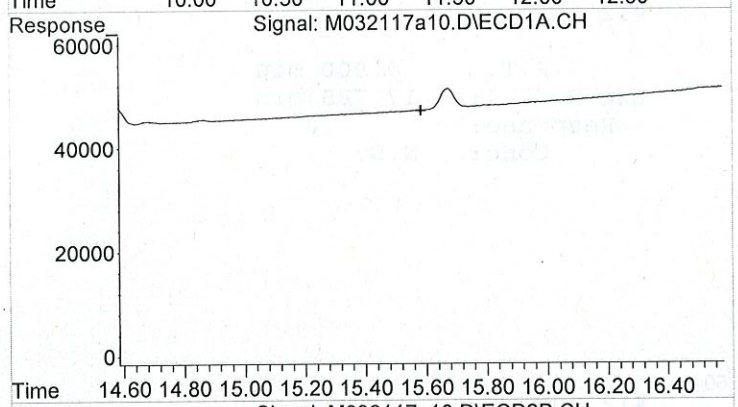
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 15.480 min
Response: 0
Conc: N.D.



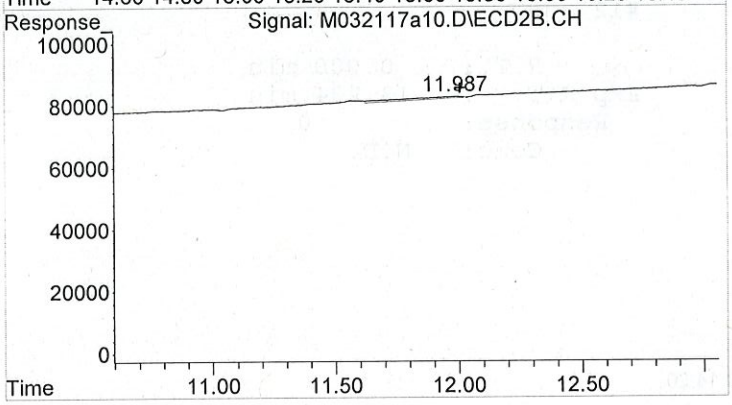
#9 1260-3

R.T.: 11.567 min
Delta R.T.: 0.036 min
Response: 1004
Conc: 1.54 pg/uL



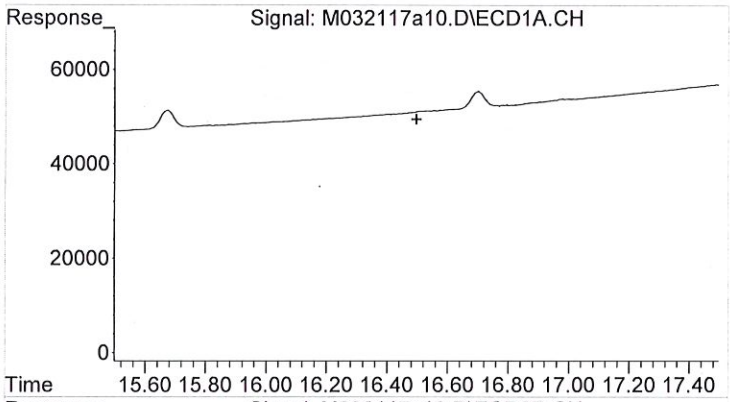
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.584 min
Response: 0
Conc: N.D.



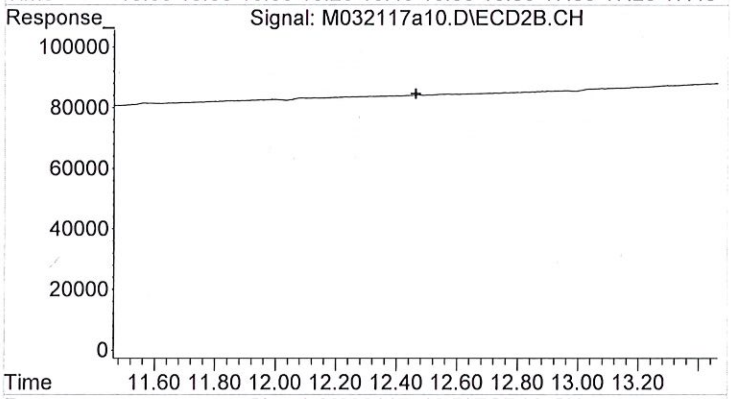
#10 1260-4

R.T.: 11.990 min
Delta R.T.: -0.018 min
Response: 507
Conc: 2.01 pg/uL



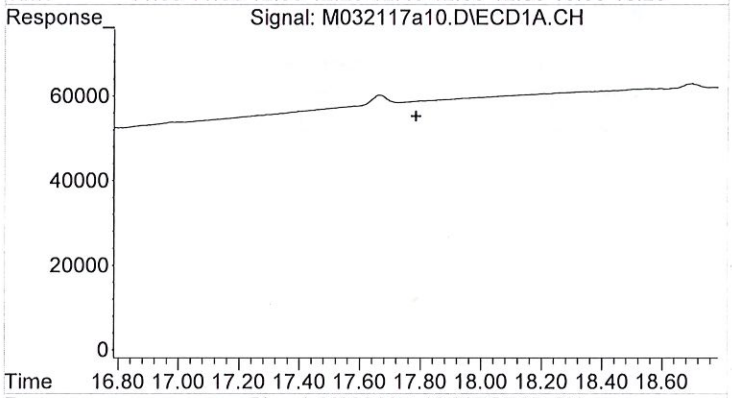
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



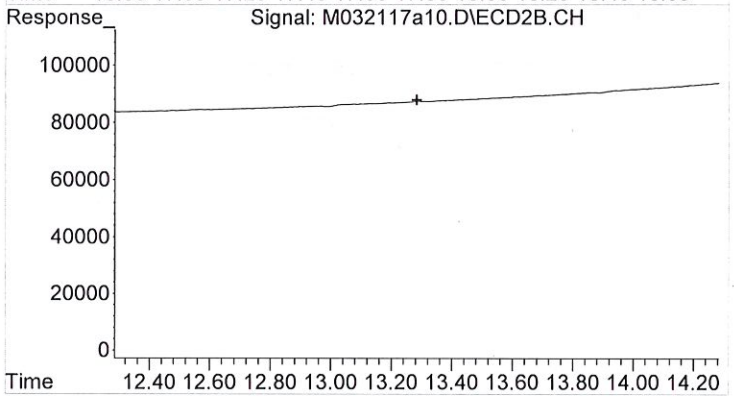
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 0.000 min
Exp R.T. : 17.785 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 0.000 min
Exp R.T. : 13.284 min
Response: 0
Conc: N.D.

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 19:22 pm
Operator : DWOOD
Sample : 87PCB081916I
Misc : SSV 1016 100pg/uL
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 12:22:44 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	4.785	0	~~7360~~	N.D.	N.D.
12) S2 dcb	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) L1 1016 -1	7.598	5.343	48106	73909	91.254	86.869
3) L1 1016-2	8.661	5.808	58870	126286	92.903	86.128
4) L1 1016-3	9.315	6.422	73780	165058	93.568	84.129
5) L1 1016-4	9.458	6.597	47799	97480	92.733	85.742
6) L1 1016-5	9.560	6.680	17046	68095	89.084	83.478
Sum 1016 -1			245600	530826	459.543	426.345
Average 1016 -1					91.909	85.269
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	11.567	0	~~1004~~	N.D.	1.536 #
10) L2 1260-4	0.000	11.990	0	~~507~~	N.D.	2.014 #
11) L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	1511	N.D.	3.550
Average 1260-1					0.000	1.775

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

4/18/17

PCB SSV Report

Data File....: M032117a11.D
Dataname.....: 87PCB081916K
Analyzed.....: 03/21/2017 19:46

Analyst.....: DWOOD
Instrument.....: Minerva
Analysis Method: 8082A

SSV Level..: 100 pg/uL
ICAL Date..: 03/21/2017

Datafile path....: J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a11.D
DP Method path...: J:\Organics\Minerva\Methods\M032117PCB1260_41717.M

SSV 1260 100pg/uL

CAS #	Compound	RT	Exp RT	Area	Spike (expected)	Amount (pg)	%Rec	Flag
Surrogate								
	tmx (1)	-	6.99	-	10	-	-	
	dcb	-	17.79	-	10	-	-	
	tmx (1) #2	-	4.80	-	10	-	-	
	dcb #2	13.29	13.28	~~290~~ hw	10	-0.202355		
Target					Criteria range: 70-130%			
	1016 -1	-	7.60	-	100	-	-	
	1016-2	-	8.66	-	100	-	-	
	1016-3	-	9.31	-	100	-	-	
	1016-4	-	9.46	-	100	-	-	
	1016-5	-	9.56	-	100	-	-	
	1260-1	13.79	13.79	105013	100	101	101	
	1260-2	13.89	13.89	59478	100	104	104	
	1260-3	15.48	15.48	55395	100	90.7	91	
	1260-4	15.59	15.58	63492	100	98.4	98	
	1260-5	16.50	16.50	60804	100	95.9	96	
	1016 -1 #2	5.34	5.34	~~1730~~	~~100~~	-3.21464	-	
	1016-2 #2	5.81	5.81	~~2463~~ hw	100	6140	6135	>130%
	1016-3 #2	6.42	6.42	~~2592~~	100	0.372	0	<70%
	1016-4 #2	-	6.60	-	100	-	-	
	1016-5 #2	-	6.68	-	100	-	-	
	1260-1 #2	10.55	10.55	37389	100	93.9	94	
	1260-2 #2	11.45	11.45	74926	100	87.9	88	
	1260-3 #2	11.53	11.53	60281	100	86.6	87	
	1260-4 #2	12.01	12.01	31840	100	89.0	89	
	1260-5 #2	12.46	12.46	66771	100	81.9	82	

Average %Recovery:	%Rec	
1016 Column 1 (n=5)	0	
1016 Column 2 (n=5)	1226	>130%
1260 Column 1 (n=5)	98	
1260 Column 2 (n=5)	88	

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 7:46 pm
Operator : DWOOD
Sample : 87PCB081916K
Misc : SSV 1260 100pg/uL
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 12:23:00 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
	System Monitoring Compounds						
1)	S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.
12)	S2 dcb	0.000	13.288	0	290	N.D.	N.D.
	Target Compounds						
2)	L1 1016 -1	0.000	5.344	0	1730	N.D.	N.D.
3)	L1 1016-2	0.000	5.807	0	2463	N.D.	6135.032 #
4)	L1 1016-3	0.000	6.423	0	2592	N.D.	0.372 #
5)	L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6)	L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016 -1			0	5055	N.D.	6132.189
	Average 1016 -1					0.000	3066.094
7)	L2 1260-1	13.795	10.549	105013	37389	101.030	93.920
8)	L2 1260-2	13.894	11.455	59478	74926	104.365	87.853
9)	L2 1260-3	15.478	11.534	55395	60281	90.688	86.578
10)	L2 1260-4	15.586	12.010	63492	31840	98.383	88.966
11)	L2 1260-5	16.496	12.464	60804	66771	95.910	81.907
	Sum 1260-1			344183	271206	490.376	439.225
	Average 1260-1					98.075	87.845

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

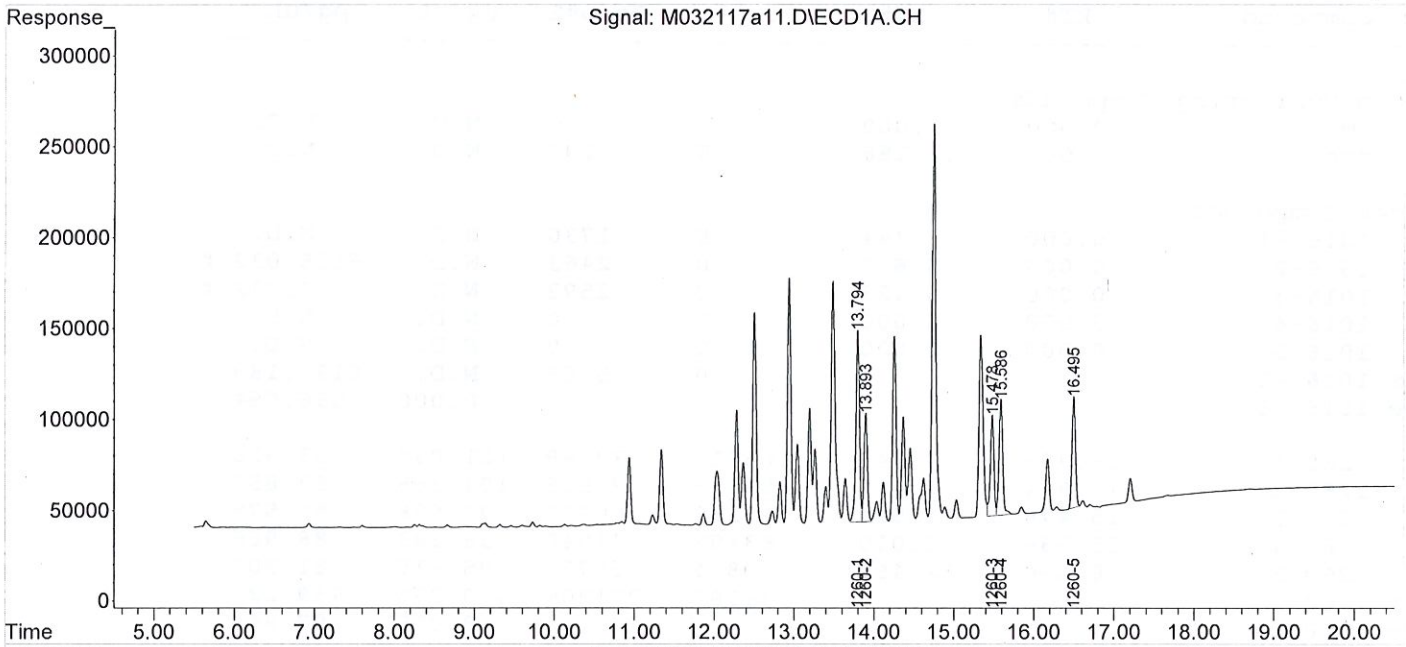
lw
4/24/17

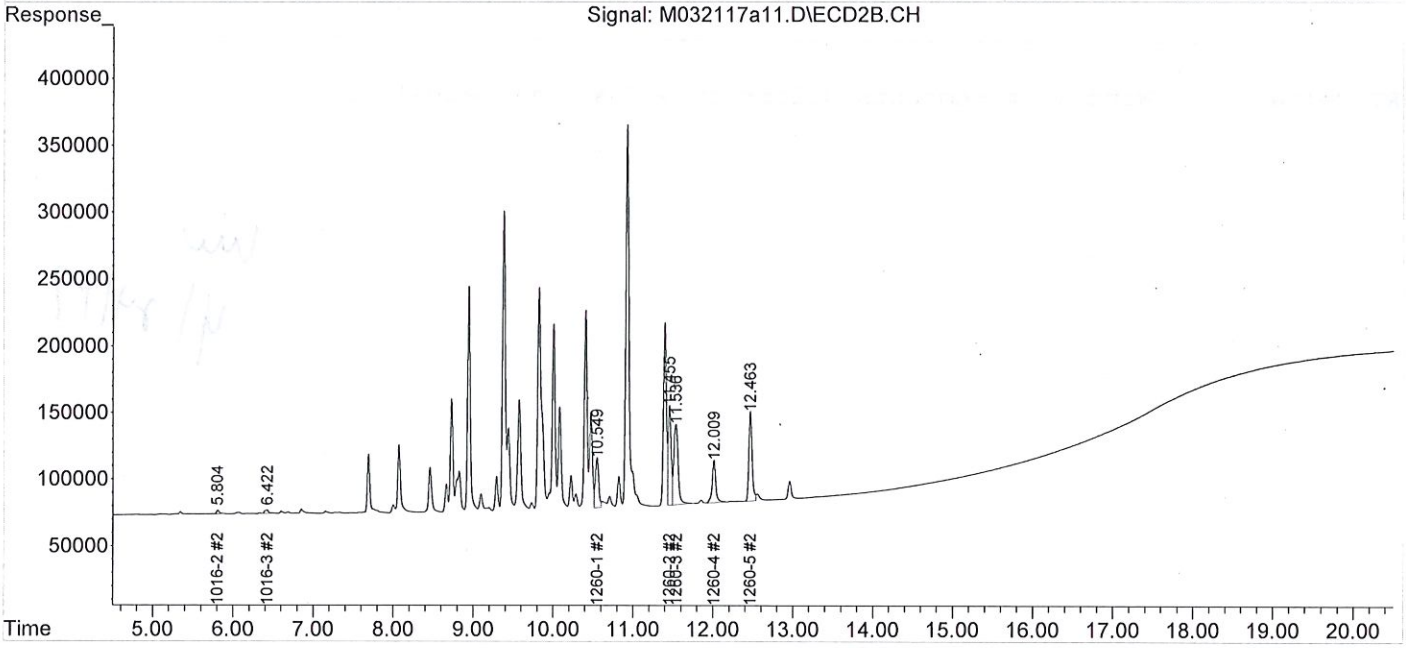
Quantitation Report (Not Reviewed)

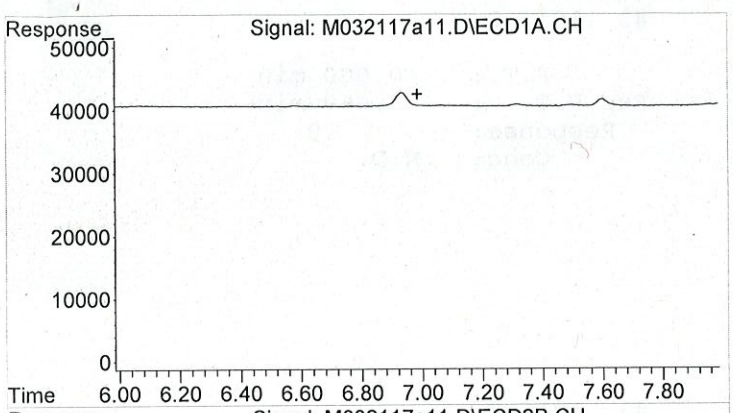
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 7:46 pm
Operator : DWOOD
Sample : 87PCB081916K
Misc : SSV 1260 100pg/uL
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 12:23:00 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

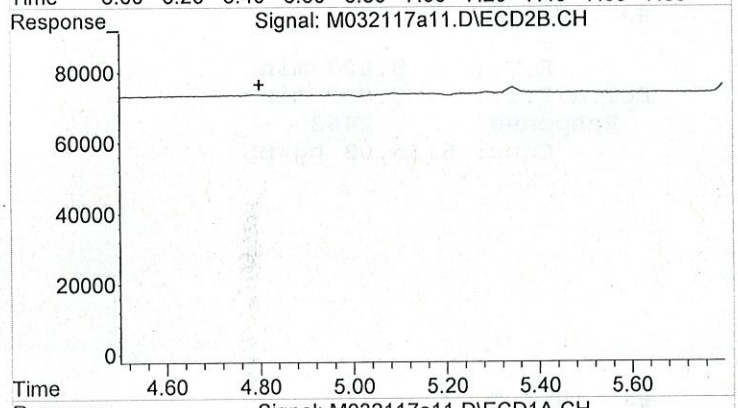






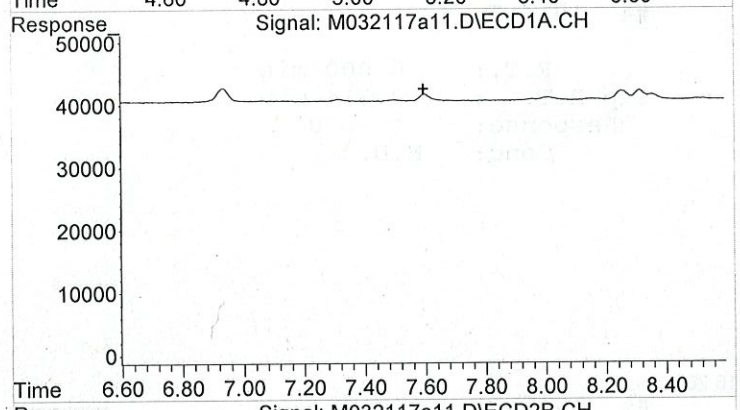
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 6.986 min
Response: 0
Conc: N.D.



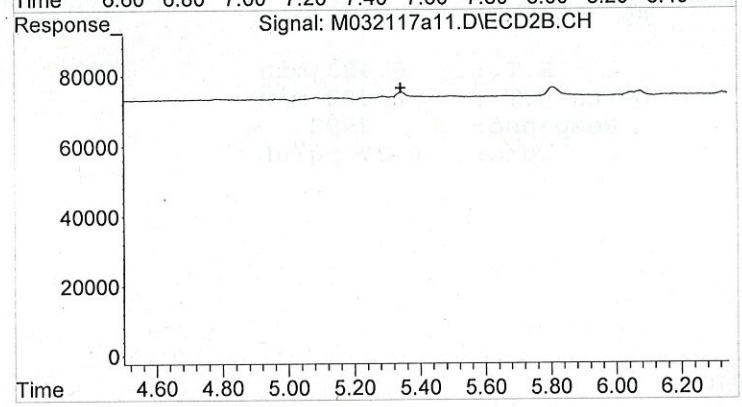
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 4.799 min
Response: 0
Conc: N.D.



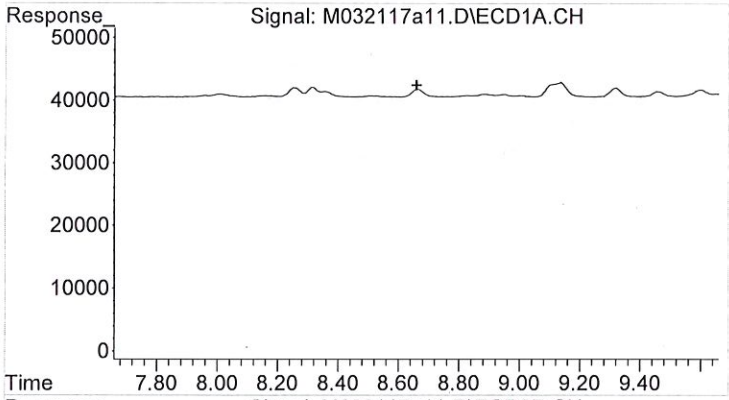
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



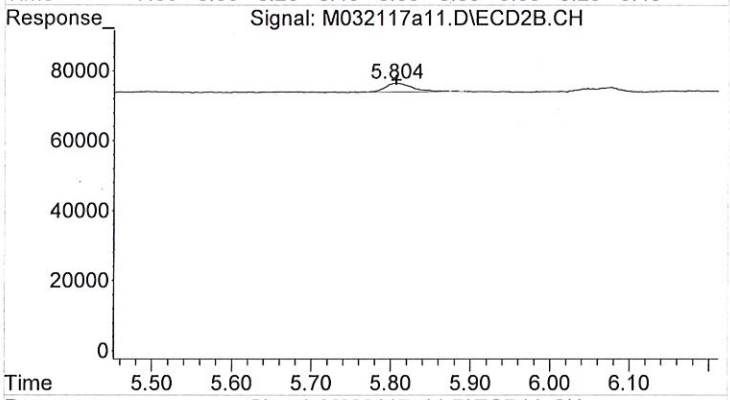
#2 1016 -1

R.T.: 5.344 min
Delta R.T.: 0.000 min
Response: 1730
Conc: N.D.



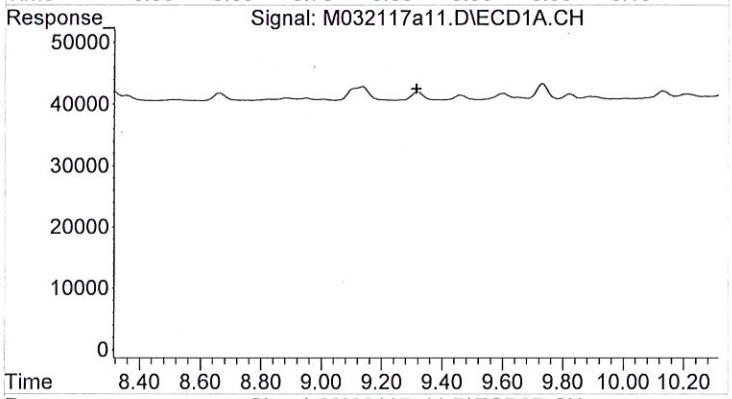
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



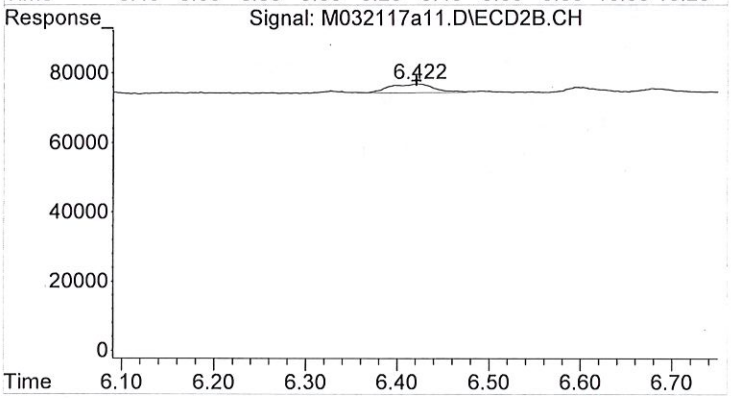
#3 1016-2

R.T.: 5.807 min
Delta R.T.: 0.000 min
Response: 2463
Conc: 6135.03 pg/uL



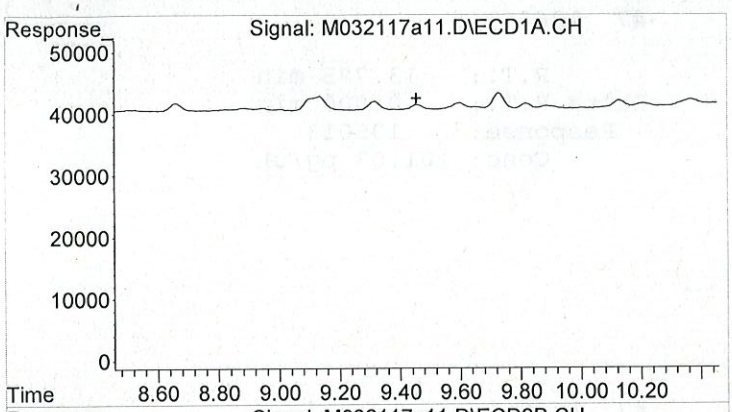
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



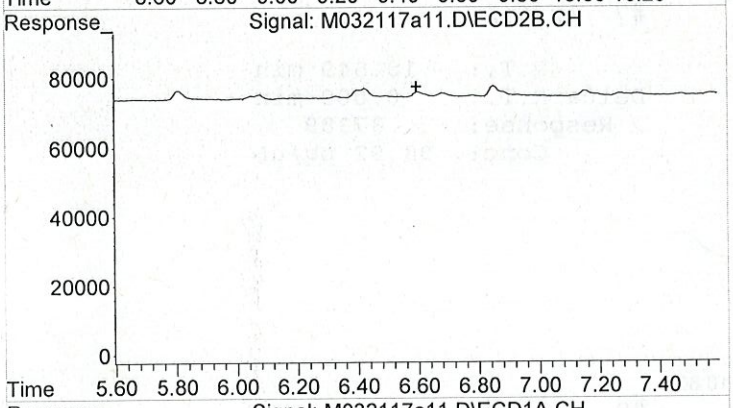
#4 1016-3

R.T.: 6.423 min
Delta R.T.: 0.002 min
Response: 2592
Conc: 0.37 pg/uL



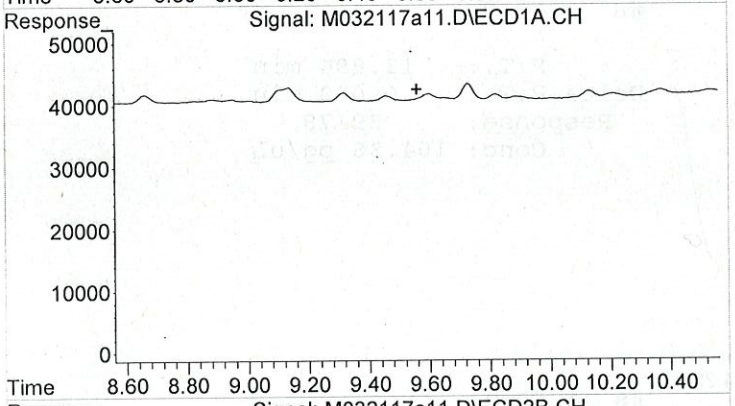
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



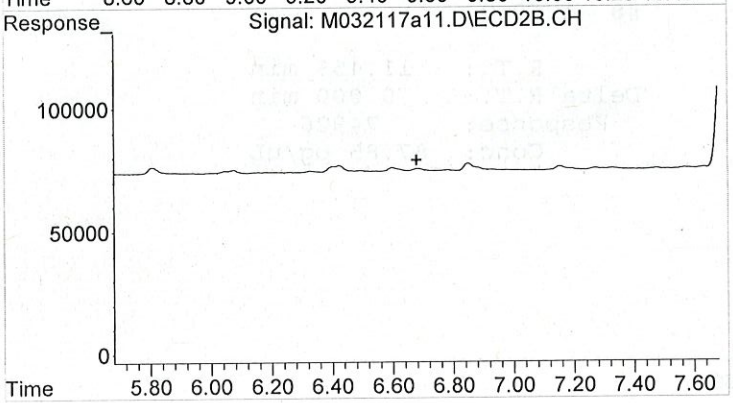
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



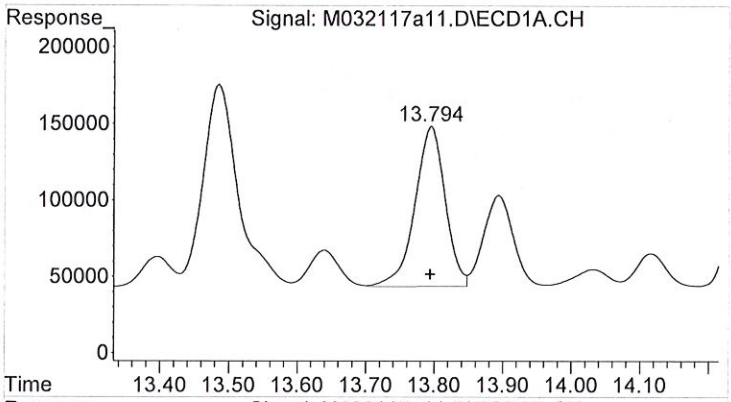
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



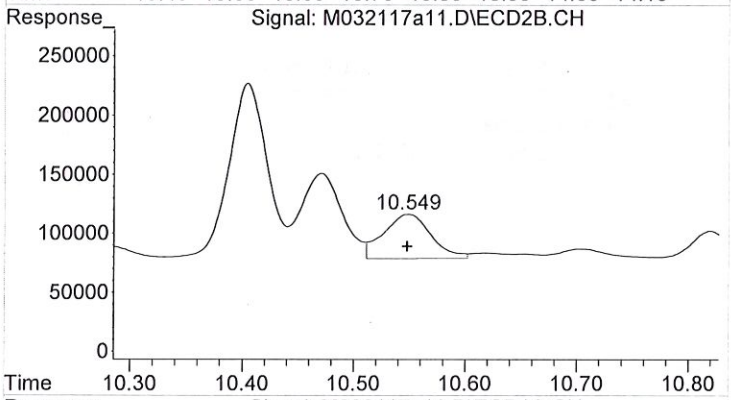
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



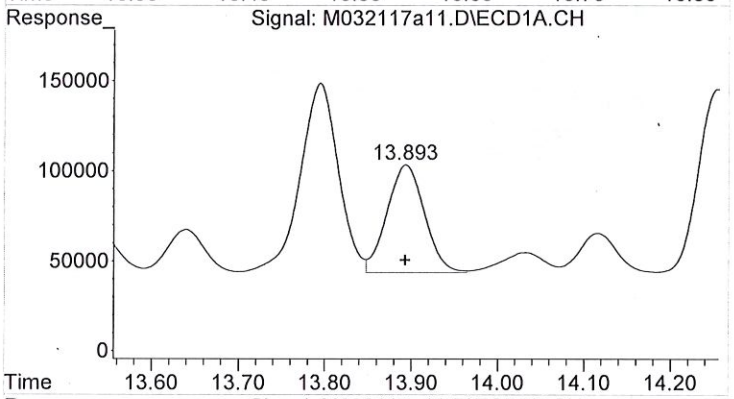
#7 1260-1

R.T.: 13.795 min
Delta R.T.: 0.000 min
Response: 105013
Conc: 101.03 pg/uL



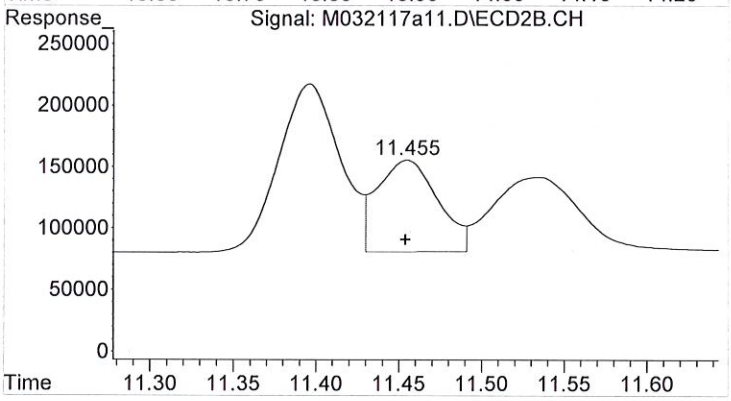
#7 1260-1

R.T.: 10.549 min
Delta R.T.: 0.000 min
Response: 37389
Conc: 93.92 pg/uL



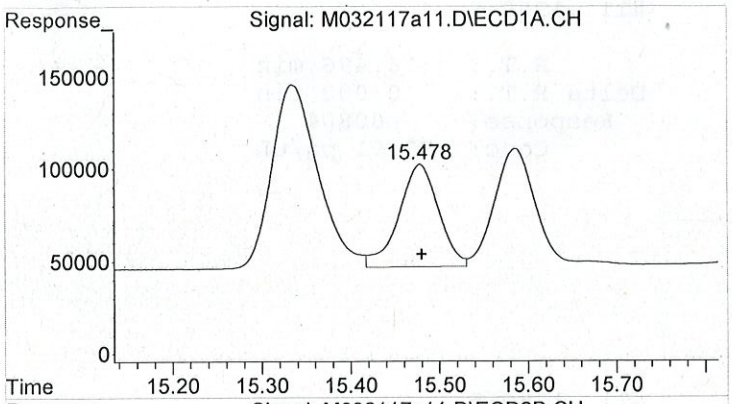
#8 1260-2

R.T.: 13.894 min
Delta R.T.: 0.000 min
Response: 59478
Conc: 104.36 pg/uL



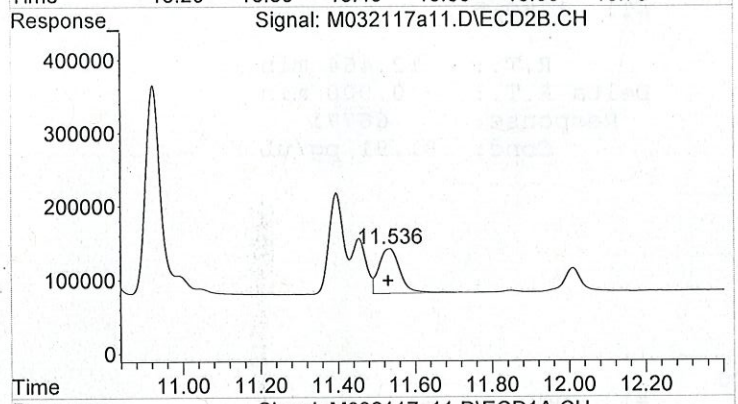
#8 1260-2

R.T.: 11.455 min
Delta R.T.: 0.000 min
Response: 74926
Conc: 87.85 pg/uL



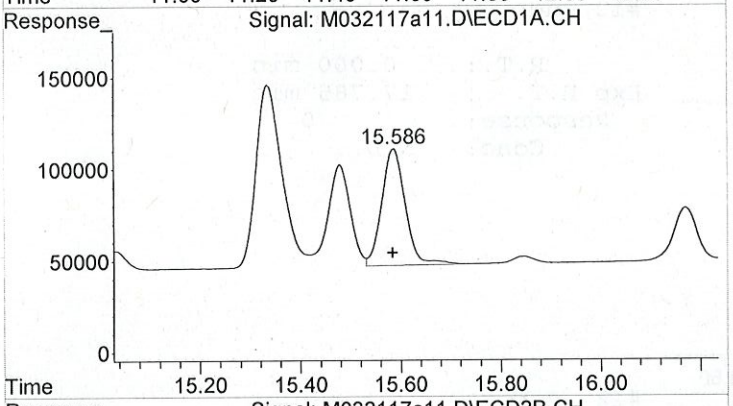
#9 1260-3

R.T.: 15.478 min
Delta R.T.: -0.002 min
Response: 55395
Conc: 90.69 pg/uL



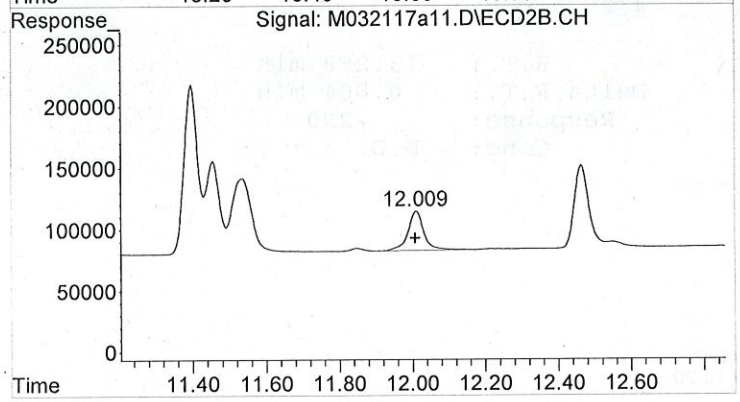
#9 1260-3

R.T.: 11.534 min
Delta R.T.: 0.003 min
Response: 60281
Conc: 86.58 pg/uL



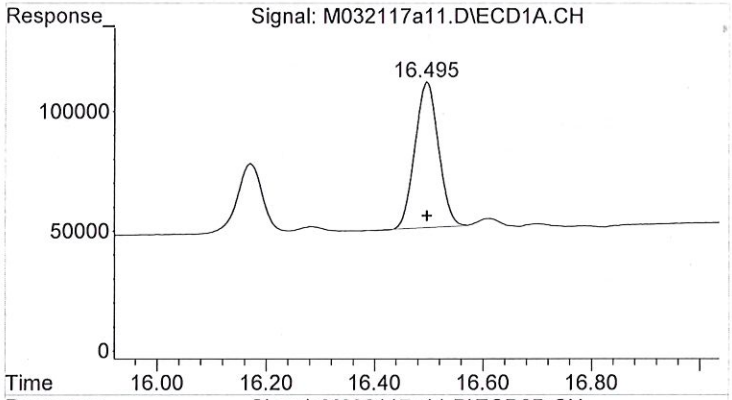
#10 1260-4

R.T.: 15.586 min
Delta R.T.: 0.002 min
Response: 63492
Conc: 98.38 pg/uL



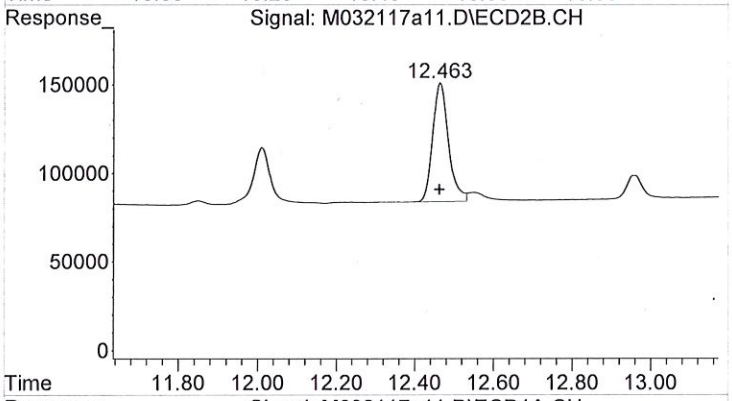
#10 1260-4

R.T.: 12.010 min
Delta R.T.: 0.002 min
Response: 31840
Conc: 88.97 pg/uL



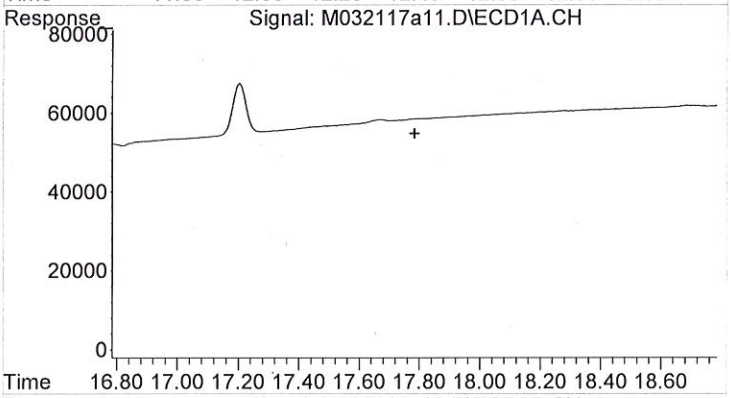
#11 1260-5

R.T.: 16.496 min
Delta R.T.: 0.000 min
Response: 60804
Conc: 95.91 pg/uL



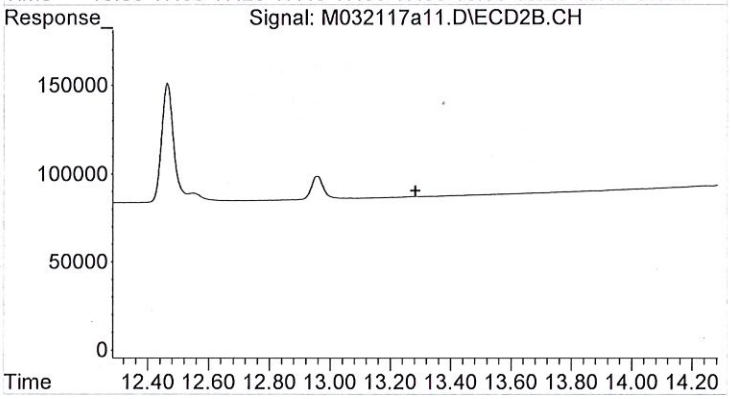
#11 1260-5

R.T.: 12.464 min
Delta R.T.: 0.000 min
Response: 66771
Conc: 81.91 pg/uL



#12 dcb

R.T.: 0.000 min
Exp R.T. : 17.785 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 13.288 min
Delta R.T.: 0.004 min
Response: 290
Conc: N.D.

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\
Data File : M032117a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2017 19:46 pm
Operator : DWOOD
Sample : 87PCB081916K
Misc : SSV 1260 100pg/uL
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 18 12:23:00 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

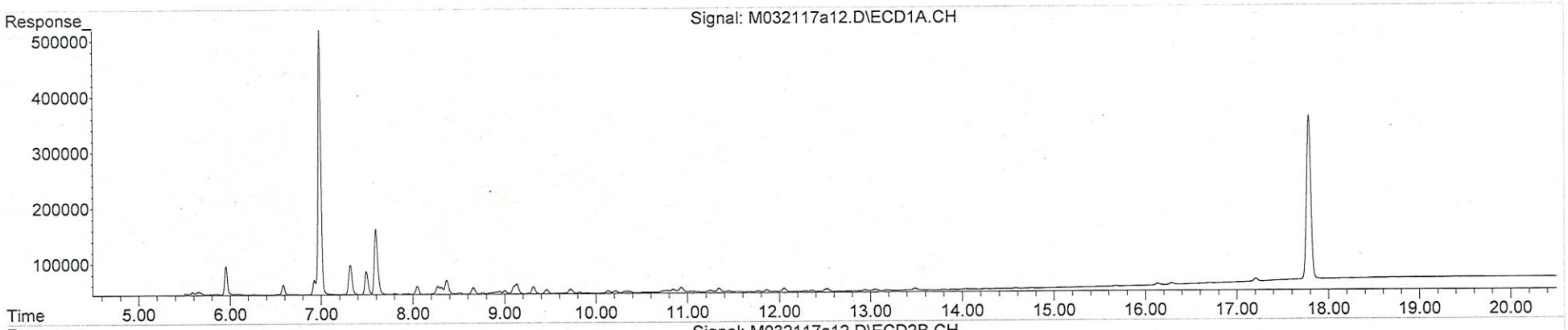
Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

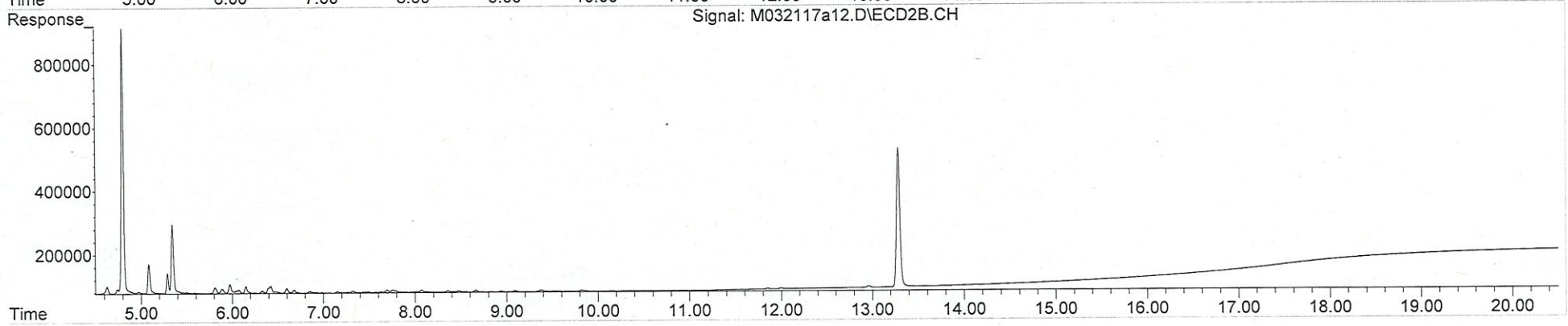
	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
	System Monitoring Compounds						
1)	S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.
12)	S2 dcb	0.000	13.288	0	~~290~~	N.D.	N.D.
	Target Compounds						
2)	L1 1016 -1	0.000	5.344	0	1730	N.D.	N.D.
3)	L1 1016-2	0.000	5.807	0	2463	N.D.	6135.032 #
4)	L1 1016-3	0.000	6.423	0	2592	N.D.	0.372 #
5)	L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6)	L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
	Sum 1016 -1			0	5055	N.D.	6132.189
	Average 1016 -1					0.000	3066.094
7)	L2 1260-1	13.795	10.549	105013	37389	101.030	93.920
8)	L2 1260-2	13.894	11.455	59478	74926	104.365	87.853
9)	L2 1260-3	15.478	11.534	55395	60281	90.688	86.578
10)	L2 1260-4	15.586	12.010	63492	31840	98.383	88.966
11)	L2 1260-5	16.496	12.464	60804	66771	95.910	81.907
	Sum 1260-1			344183	271206	490.376	439.225
	Average 1260-1					98.075	87.845

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

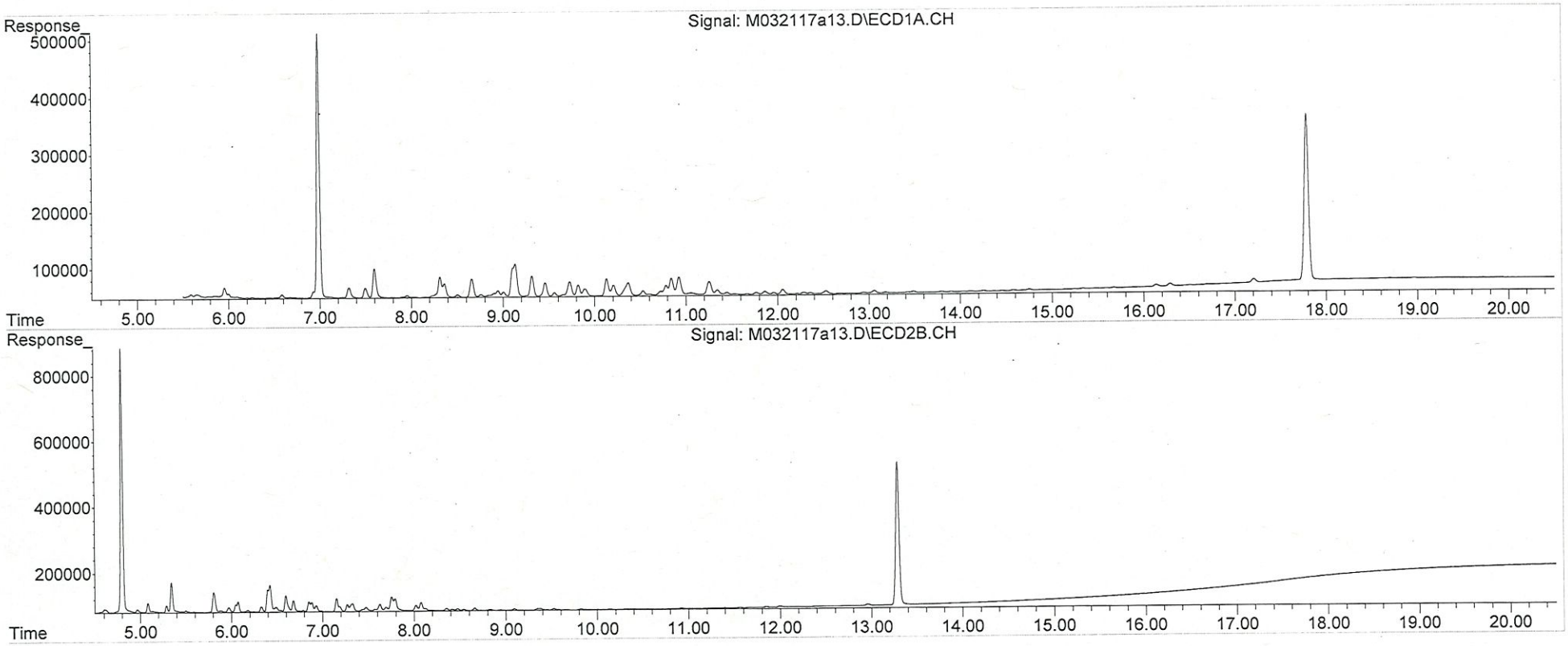
4/18/17

File :J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a1
... 2.D
Operator : DWOOD
Instrument : Minerva
Acquired : 21 Mar 2017 20:11 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB110116A
Misc Info : SSV 1221 200pg/uL

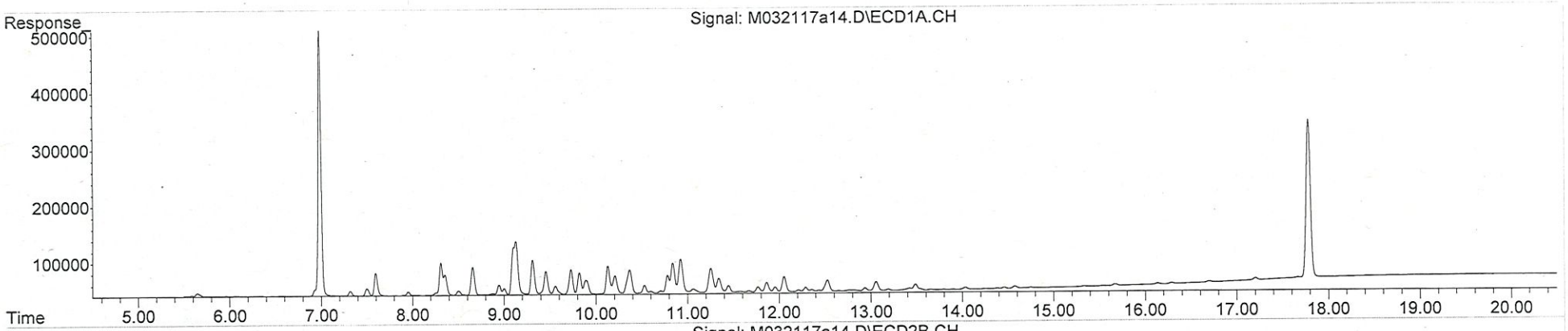


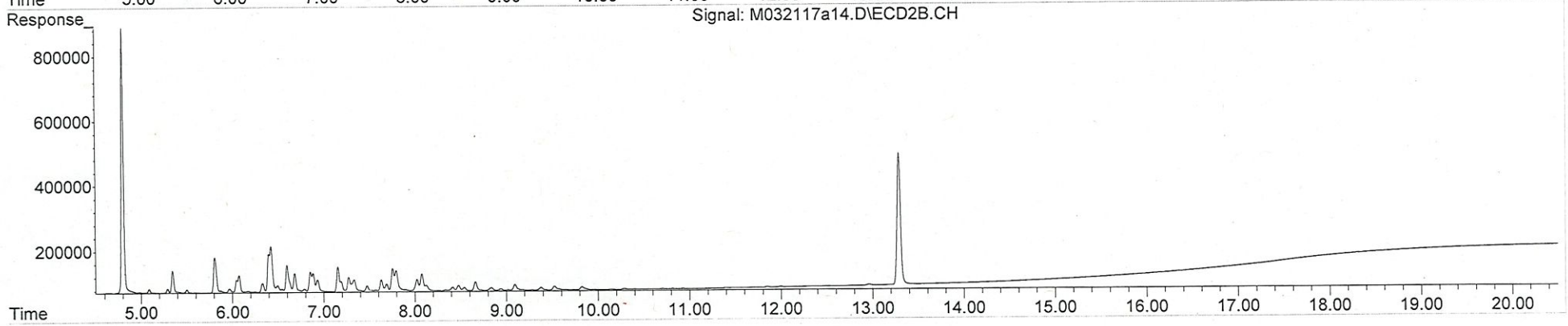


File :J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a1
... 3.D
Operator : DWOOD
Instrument : Minerva
Acquired : 21 Mar 2017 20:36 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB110116B
Misc Info : SSV 1232 100pg/uL

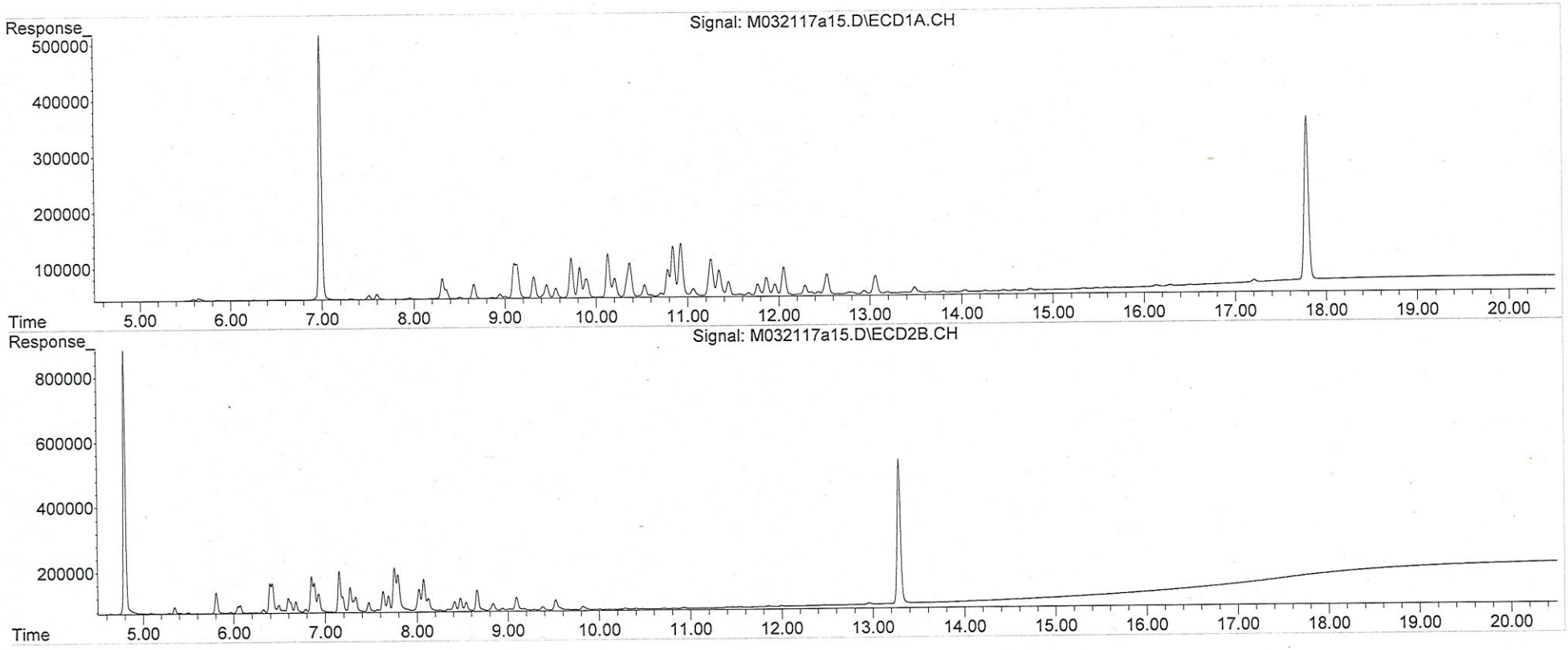


File :J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a1
... 4.D
Operator : DWOOD
Instrument : Minerva
Acquired : 21 Mar 2017 21:00 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB110116C
Misc Info : SSV 1242 100pg/uL

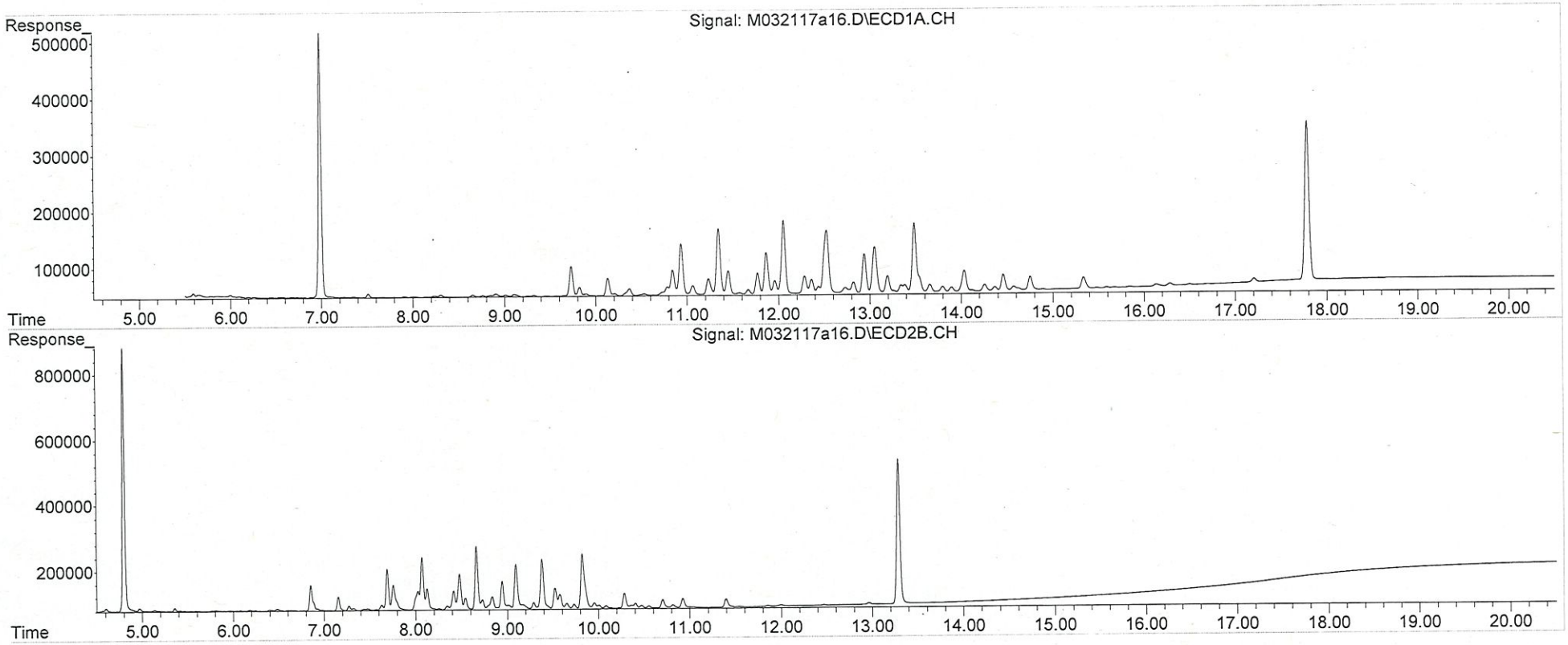




File :J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a1
... 5.D
Operator : DWOOD
Instrument : Minerva
Acquired : 21 Mar 2017 21:25 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB110116D
Misc Info : SSV 1248 100pg/uL



File :J:\Organics\Minerva\MINERVA 2017 DATA\M032117PCBDW\M032117a1
... 6.D
Operator : DWOOD
Instrument : Minerva
Acquired : 21 Mar 2017 21:50 pm using AcqMethod M012116PCB2B.M
Sample Name: 87PCB110116E
Misc Info : SSV 1254 100pg/uL



Analysis Log Method: Analyst: DWOOD Initial:

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
30 Mar 2017 9:29 am	M033017a01.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 9:54 am	M033017a02.D	87PCB081916A	PCB 1242 ICAL 25 pg/uL	.
30 Mar 2017 10:18 am	M033017a03.D	87PCB081916B	PCB 1242 ICAL 50 pg/uL	.
30 Mar 2017 10:43 am	M033017a04.D	87PCB081916C	PCB 1242 ICAL 100 pg/uL	.
30 Mar 2017 11:56 am	M033017a05.D	87PCB081916D	PCB 1242 ICAL 250 pg/uL	.
30 Mar 2017 12:20 pm	M033017a06.D	87PCB081916E	PCB 1242 ICAL 500 pg/uL	.
30 Mar 2017 12:45 pm	M033017a07.D	87PCB081916F	PCB 1242 ICAL 1000 pg/uL	.
30 Mar 2017 13:09 pm	M033017a08.D	87PCB110116C	PCB 1242 SSV Std 100pg/uL	.
30 Mar 2017 13:34 pm	M033017a09.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 13:59 pm	M033017a10.D	87PCB083016A	PCB 1254 ICAL 25 pg/uL	.
30 Mar 2017 15:04 pm	M033017a11.D	87PCB083016B	PCB 1254 ICAL 50 pg/uL	.
30 Mar 2017 15:28 pm	M033017a12.D	87PCB083016C	PCB 1254 ICAL 100 pg/uL	.
30 Mar 2017 15:53 pm	M033017a13.D	87PCB083016D	PCB 1254 ICAL 250 pg/uL	.
30 Mar 2017 16:18 pm	M033017a14.D	87PCB083016E	PCB 1254 ICAL 500 pg/uL	.
30 Mar 2017 16:42 pm	M033017a15.D	87PCB083016F	PCB 1254 ICAL 1000 pg/uL	.
30 Mar 2017 17:07 pm	M033017a16.D	87PCB110116E	PCB 1254 Std 100pg/uL	.
30 Mar 2017 17:32 pm	M033017a17.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 17:56 pm	M033017a18.D	87PCB081916C	PCB 1242 Cont Cal 100 pg/uL	.
30 Mar 2017 18:21 pm	M033017a19.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.
30 Mar 2017 18:45 pm	M033017a20.D	17104001	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:10 pm	M033017a21.D	17104005	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:35 pm	M033017a22.D	17114000	Sky Valley PCB PUF 2mL fv	.
30 Mar 2017 19:59 pm	M033017a23.D	87PCB102416C	Instrument Blank 100pg/ul	.
30 Mar 2017 20:24 pm	M033017a24.D	87PCB081916C	PCB 1242 Cont Cal 100 pg/uL	.
30 Mar 2017 20:49 pm	M033017a25.D	87PCB083016C	PCB 1254 Cont Cal 100 pg/uL	.

Calibration Status Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M033017PCB1254_41717.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Mon Apr 24 15:30:48 2017
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
2	1000	100	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dwa\M033017a15.D
3	500	50	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dwa\M033017a14.D
4	250	25	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dwa\M033017a13.D
5	100	10	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dwa\M033017a12.D
6	50	5	0	J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dwa\M033017a11.D

#	ID	Update Time	Quant Time	Acquisition Time
2	1000	Apr 24 15:30 2017	Apr 18 17:00 2017	30 Mar 2017 16:42 pm
3	500	Apr 24 15:30 2017	Apr 18 16:58 2017	30 Mar 2017 16:18 pm
4	250	Apr 24 15:30 2017	Apr 18 16:58 2017	30 Mar 2017 15:53 pm
5	100	Apr 24 15:30 2017	Apr 18 16:58 2017	30 Mar 2017 15:28 pm
6	50	Apr 24 15:30 2017	Apr 18 16:58 2017	30 Mar 2017 15:04 pm

M033017PCB1254_41717.M Mon Apr 24 15:48:31 2017

Calibration Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M033017PCB1254_41717.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Mon Apr 24 15:30:48 2017
Response Via : Initial Calibration

Calibration Files
1000=M033017a15 500 =M033017a14 250 =M033017a13 100 =M033017a12 50 =M033017a11
25 =M033017a10

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S1	tmx (1)	Lin	-----	-----	-----	0.0000
2) L1	1254 -1	Lin	1.6849 e3	2.7088 e2	-----	0.9950
3) L1	1254-2	Lin	8.3039 e2	1.3724 e2	-----	0.9940
4) L1	1254-3	Lin	2.9463 e3	3.9270 e2	-----	0.9944
5) L1	1254-4	Lin	2.6526 e3	3.2973 e2	-----	0.9944
6) L1	1254-5	Lin	1.0962 e3	2.2995 e2	-----	0.9966
7) S1	dcb	Lin	-----	-----	-----	0.0000

Signal #2

	Compound	Fit	Constant	Linear	Quad	RSD/Cf
1) S2	tmx (1)	Lin	-----	-----	-----	0.0000
2) L1	1254 -1	Lin	1.9096 e3	8.0308 e2	-----	0.9974
3) L1	1254-2	Lin	1.1107 e2	4.4748 e2	-----	0.9974
4) L1	1254-3	Lin	-6.1477 e1	7.8715 e2	-----	0.9975
5) L1	1254-4	Lin	1.7636 e3	6.9934 e2	-----	0.9981
6) L1	1254-5	Lin	-3.5309 e2	6.1396 e2	-----	0.9980
7) S2	dcb	Lin	-----	-----	-----	0.0000

M033017PCB1254_41717.M Mon Apr 24 15:48:39 2017

Compound List Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M033017PCB1254_41717.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Mon Apr 24 15:30:48 2017
Response Via : Initial Calibration

Total Cpnds : 15

PK#		Compound Name	Exp_RT	Rel_RT	Cal	A/H	ID
1	S	tmx (1)	7.176	1.000	L	H	R
2	L1	1254 -1	10.122	1.000	L	H	R
3	L1	1254-2	11.053	1.000	L	H	R
4	L1	1254-3	11.437	1.000	L	H	R
5	L1	1254-4	11.757	1.000	L	H	R
6	L1	1254-5	11.946	1.000	L	H	R
7	S	dcb	18.067	1.000	L	H	R
8	L2	Signal #2	0.000	1.000	L	H	R
9	S	tmx (1) #2	5.082	1.000	L	H	R
10	L1	1254 -1 #2	6.848	1.000	L	H	R
11	L1	1254-2 #2	7.152	1.000	L	H	R
12	L1	1254-3 #2	7.754	1.000	L	H	R
13	L1	1254-4 #2	8.123	1.000	L	H	R
14	L1	1254-5 #2	8.411	1.000	L	H	R
15	S	dcb #2	13.848	1.000	L	H	R

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

M033017PCB1254_41717.M Mon Apr 24 15:48:18 2017

ICAL Series	M033017a10.D		through	M033017a15.D			
Last Calibration Update	Fri Mar 31 07:30:01 2017						
	25	50	100	250	500	1000	0
Analyte	%Difference from expected						
1254 -1	-5.0	7.3	6.4	-0.2	-2.4	-6.2	
1254-2	-4.1	4.8	7.3	0.4	1.0	-9.4	
1254-3	-3.1	3.9	6.3	-2.1	-1.5	-3.4	
1254-4	-3.7	4.9	6.0	-0.6	-0.5	-6.0	
1254-5	-3.9	5.7	5.2	-0.2	-2.1	-4.6	
Signal #2							
1254 -1 #2	-2.7	3.3	4.2	1.7	-2.8	-3.9	
1254-2 #2	-3.8	4.9	6.8	-0.4	-3.2	-4.2	
1254-3 #2	-2.2	2.2	5.8	-3.2	0.3	-3.0	
1254-4 #2	-3.5	5.0	4.7	0.2	-1.1	-5.3	
1254-5 #2	-2.7	2.6	6.5	-0.3	-2.5	-3.7	

ICAL Series M033017a10.D through M033017a15.D
Last Calibration Update Fri Mar 31 07:30:01 2017

		Concentration	25	50	100	250	500	1000	0
1	0	1254 -1	23.76049	53.6515	106.3908	249.5866	487.917	938.4558	
2	0	1254-2	23.98126	52.40083	107.282	250.9842	504.9097	906.1659	
3	0	1254-3	24.21868	51.93165	106.2679	244.6477	492.469	966.4134	
4	0	1254-4	24.07165	52.45914	105.9748	248.4082	497.4636	939.6327	
5	0	1254-5	24.02649	52.83656	105.2127	249.4448	489.2592	953.8036	
6	0	Signal #2							
7	0	1254 -1 #2	24.33433	51.66371	104.24	254.3644	486.1511	961.1955	
8	0	1254-2 #2	24.04131	52.45297	106.7698	248.8829	483.8466	958.3812	
9	0	1254-3 #2	24.45378	51.10301	105.8311	242.0894	501.6896	969.7643	
10	0	1254-4 #2	24.12167	52.51811	104.6524	250.4518	494.597	947.2466	
11	0	1254-5 #2	24.32243	51.32437	106.5198	249.3675	487.3077	963.3336	

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dwa\
Data File : M033017a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 13:59 pm
Operator : DWOOD
Sample : 87PCB083016A
Misc : PCB 1254 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 15:31:50 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.
7) S2 dcb	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) L1 1254 -1	10.122	6.848	8614	21297	24.256m	24.141
3) L1 1254-2	11.052	7.151	4561	10868	24.681m	24.040
4) L1 1254-3	11.434	7.758	12531	18938	24.406	24.138
5) L1 1254-4	11.756	8.123	10560	18920	23.981	24.531
6) L1 1254-5	11.946	8.411	6631	14629	24.072	24.402
Sum 1254 -1			42897	84652	121.396	121.253
Average 1254 -1					24.279	24.251

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

mw
4/24/17

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dwa\
Data File : M033017a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 13:59 pm
Operator : DWOOD
Sample : 87PCB083016A
Misc : PCB 1254 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 18 12:35:38 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Fri Mar 31 07:30:01 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
Target Compounds						
1) L1 1254 -1	10.121	6.848	8178 B	21297	N.D.	14.217 #
2) L1 1254-2	11.052	7.151	4142 B	10868	4.518	5.321
3) L1 1254-3	11.434	7.758	12531	18938	11.149	17.087 #
4) L1 1254-4	11.756	8.123	10560	18920	41.156	11.074 #
5) L1 1254-5	11.946	8.411	6631	14629	N.D.	17.938 #
Sum 1254 -1			27233	84652	53.506	65.637
Average 1254 -1					17.835	13.127

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

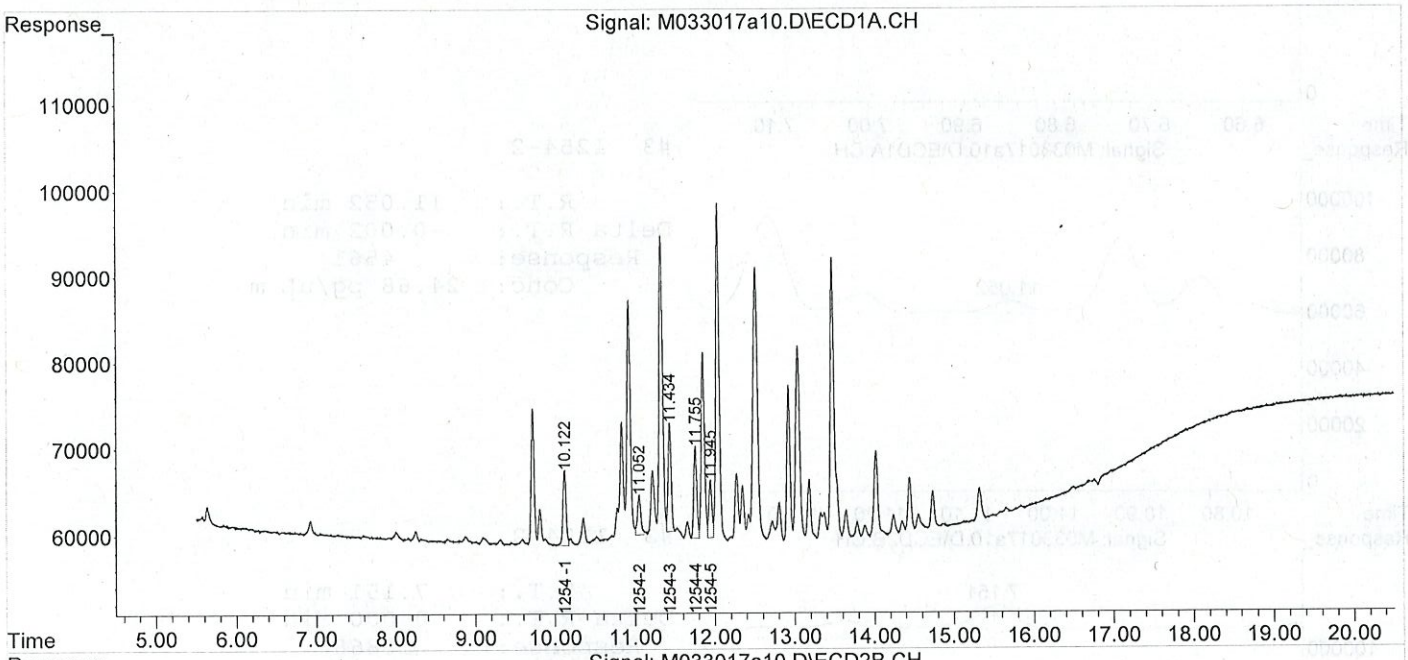
4/24/17

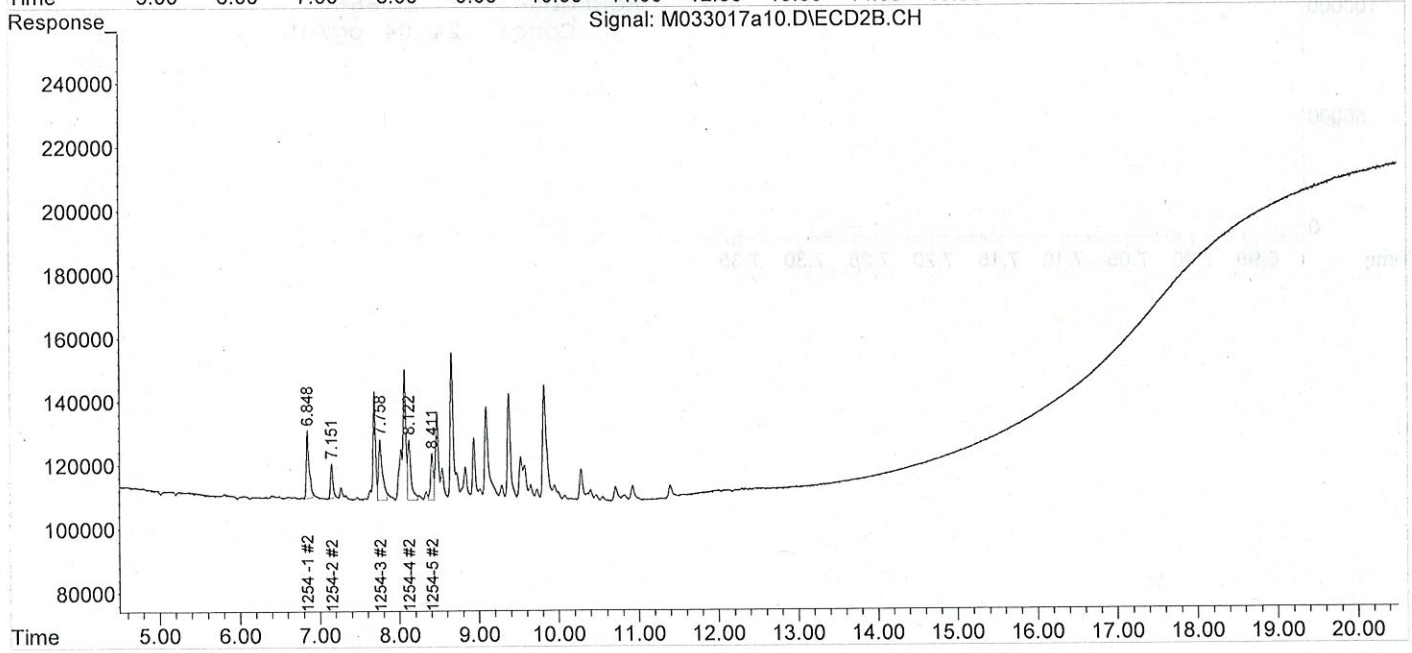
Quantitation Report (QT Reviewed)

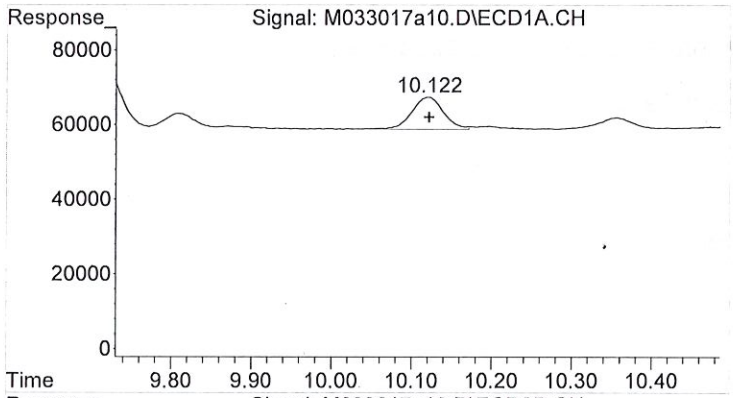
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dwa\
Data File : M033017a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 13:59 pm
Operator : DWOOD
Sample : 87PCB083016A
Misc : PCB 1254 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 9 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 15:31:50 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

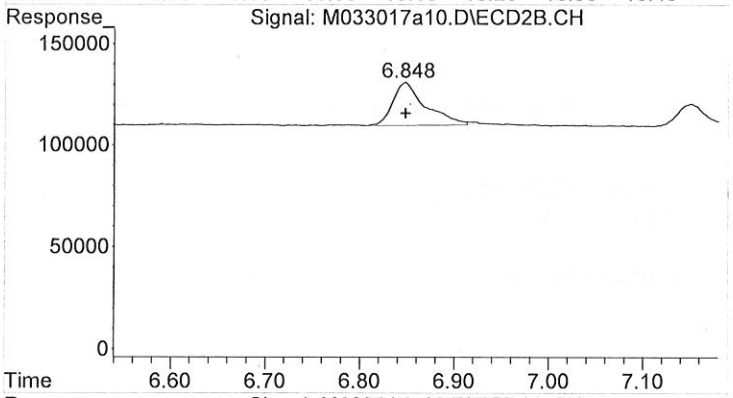






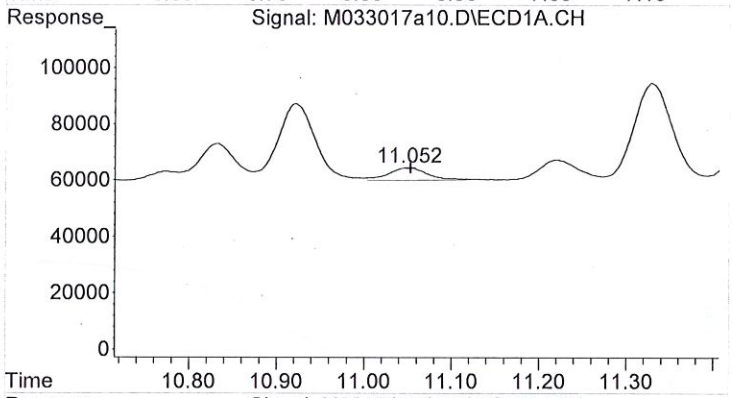
#2 1254 -1

R.T.: 10.122 min
Delta R.T.: 0.000 min
Response: 8614
Conc: 24.26 pg/uL m



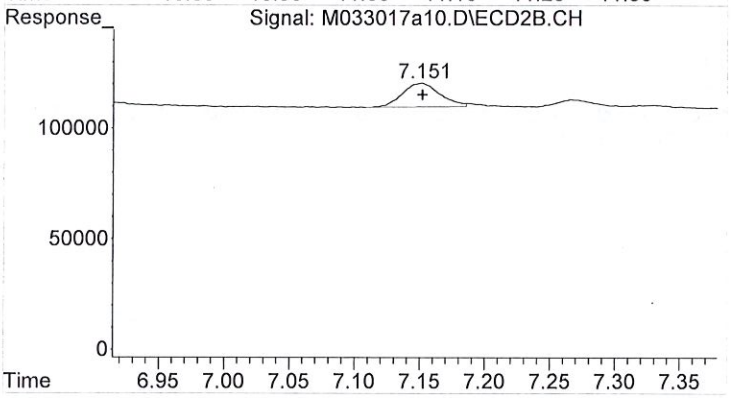
#2 1254 -1

R.T.: 6.848 min
Delta R.T.: 0.000 min
Response: 21297
Conc: 24.14 pg/uL



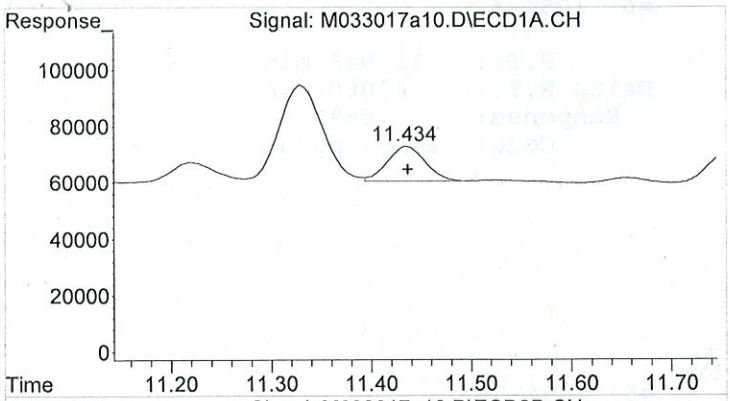
#3 1254-2

R.T.: 11.052 min
Delta R.T.: -0.002 min
Response: 4561
Conc: 24.68 pg/uL m



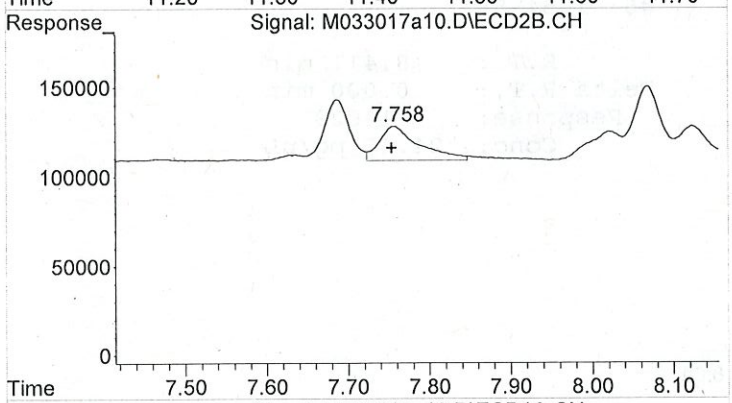
#3 1254-2

R.T.: 7.151 min
Delta R.T.: 0.000 min
Response: 10868
Conc: 24.04 pg/uL



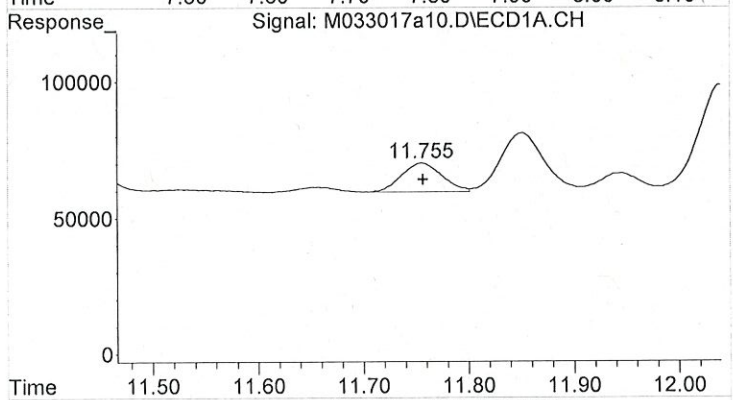
#4 1254-3

R.T.: 11.434 min
Delta R.T.: -0.003 min
Response: 12531
Conc: 24.41 pg/uL



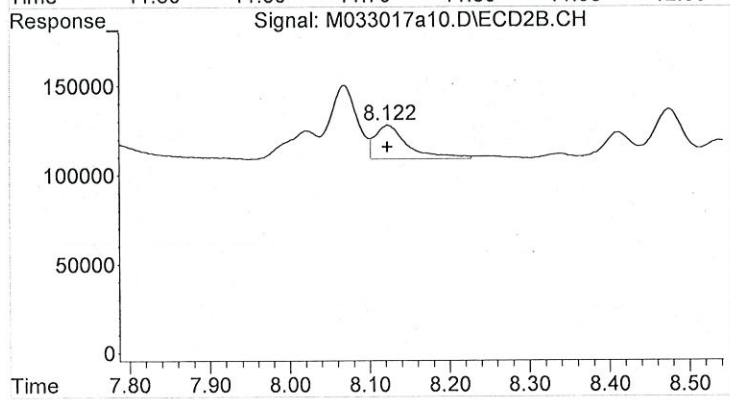
#4 1254-3

R.T.: 7.758 min
Delta R.T.: 0.004 min
Response: 18938
Conc: 24.14 pg/uL



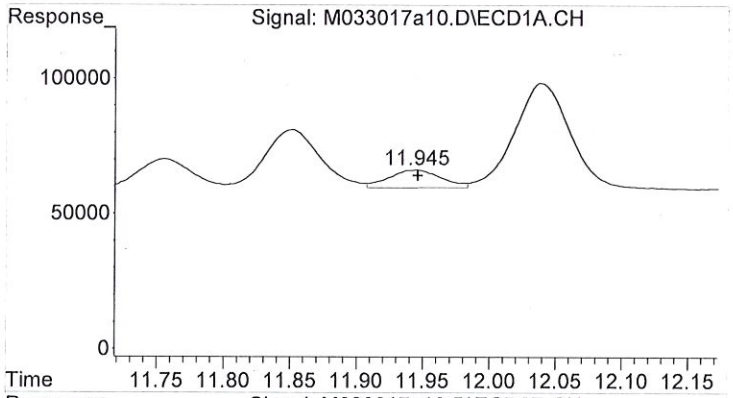
#5 1254-4

R.T.: 11.756 min
Delta R.T.: -0.001 min
Response: 10560
Conc: 23.98 pg/uL



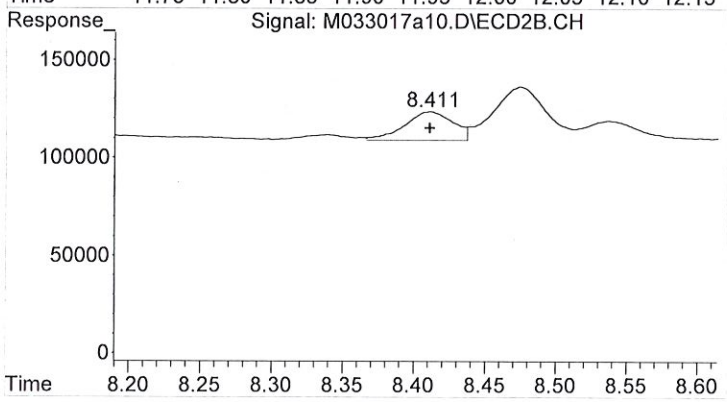
#5 1254-4

R.T.: 8.123 min
Delta R.T.: 0.000 min
Response: 18920
Conc: 24.53 pg/uL



#6 1254-5

R.T.: 11.946 min
Delta R.T.: 0.000 min
Response: 6631
Conc: 24.07 pg/uL



#6 1254-5

R.T.: 8.411 min
Delta R.T.: 0.000 min
Response: 14629
Conc: 24.40 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M033017PCB1254dwa\
Data File : M033017a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30 Mar 2017 15:04 pm
Operator : DWOOD
Sample : 87PCB083016B
Misc : PCB 1254 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 15:32:53 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.
7) S2 dcb	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) L1 1254 -1	10.129	6.849	15855	43962	51.231	52.364
3) L1 1254-2	11.060	7.153	7849	24008	49.063	53.404
4) L1 1254-3	11.446	7.757	22525	41280	49.856	52.520
5) L1 1254-4	11.766	8.126	19931	37092	52.401	50.517
6) L1 1254-5	11.954	8.414	13159	31029	52.459	51.113
Sum 1254 -1			79319	177371	255.010	259.918
Average 1254 -1					51.002	51.984

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

lw
4/24/17