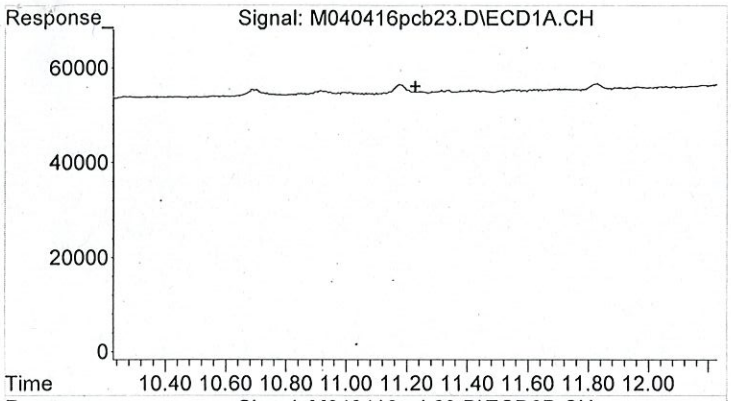
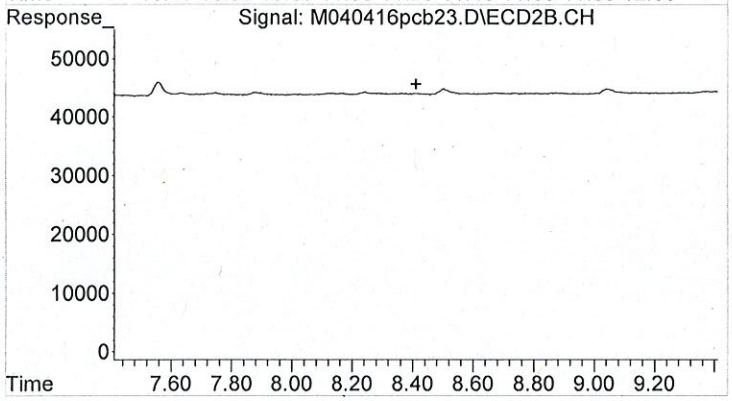


#6 1242-5

R.T.: 0.000 min
Exp R.T. : 11.229 min
Response: 0
Conc: N.D.



#6 1242-5

R.T.: 0.000 min
Exp R.T. : 8.412 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 0:47 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 06 15:11:06 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.964	5.038	3258001	3061521	94.863	113.893
12) S2 dcb	17.731	13.698	1728752	1995456	83.017	126.039 #
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
8) L2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

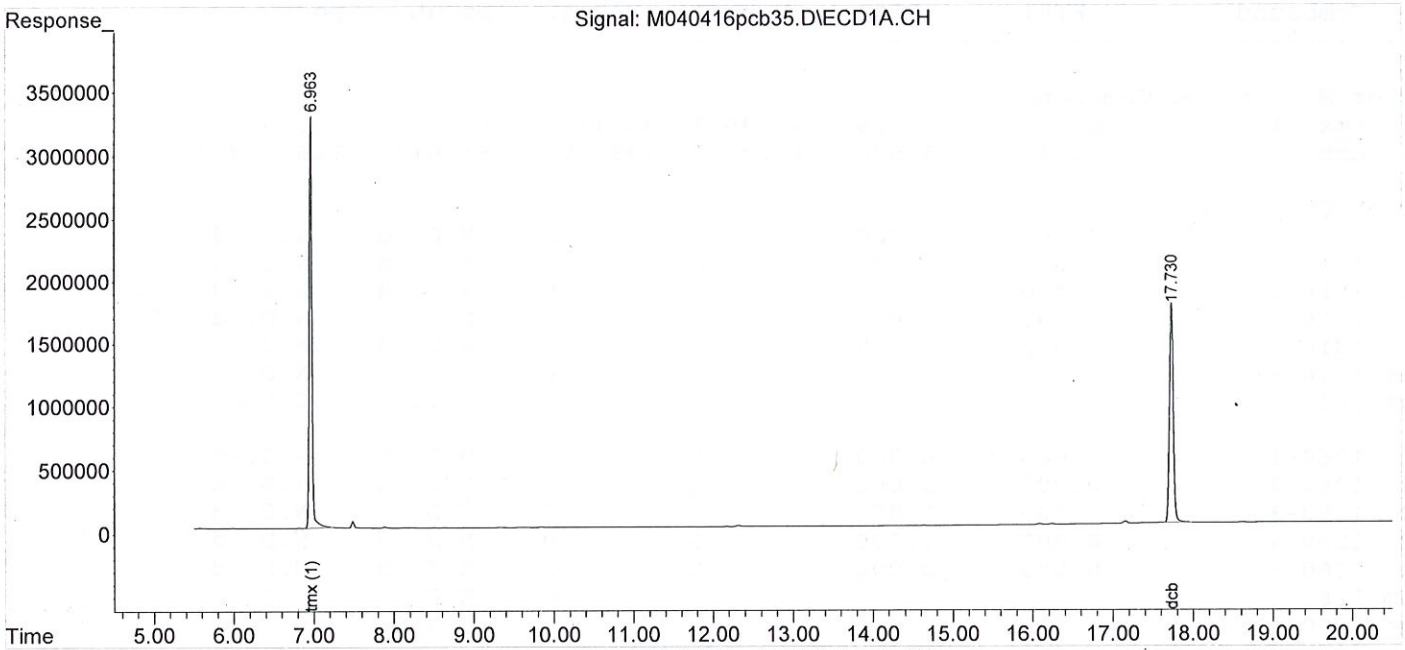
ww
4/6/16

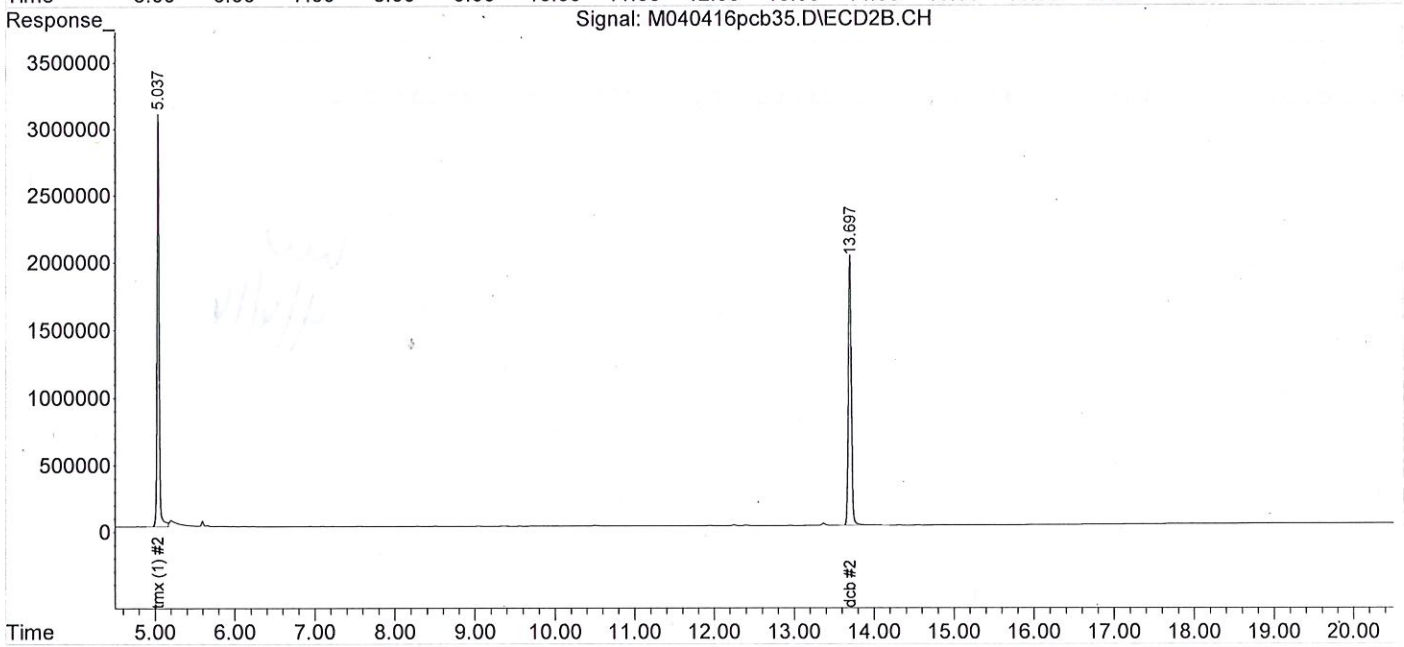
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 0:47 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 06 15:11:06 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 0:47 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:28:45 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.964	5.038	3258001	3061521	94.863	113.893	
12)	S2 dcb	17.731	13.698	1728752	1995456	83.017	126.039	#
	Target Compounds							
2)	L1 1016 -1	0.000	5.594	0	40496	N.D.	80.330	#
3)	L1 1016-2	0.000	0.000	0	0	N.D.	N.D.	
4)	L1 1016-3	0.000	0.000	0	0	N.D.	N.D.	
5)	L1 1016-4	0.000	6.878	0	395	N.D.	N.D.	
6)	L1 1016-5	0.000	0.000	0	0	N.D.	N.D.	
	Sum 1016 -1			0	40496	N.D.	74.667	
	Average 1016 -1					0.000	74.667	
7)	L2 1260-1	0.000	9.345	0	684	N.D.	N.D.	
8)	L2 1260-2	0.000	9.707	0	424	N.D.	N.D.	
9)	L2 1260-3	0.000	10.195	0	209	N.D.	N.D.	
10)	L2 1260-4	0.000	11.313	0	367	N.D.	N.D.	
11)	L2 1260-5	0.000	11.775	0	222	N.D.	N.D.	
	Sum 1260-1			0	0	N.D.	N.D.	
	Average 1260-1					0.000	0.000	

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

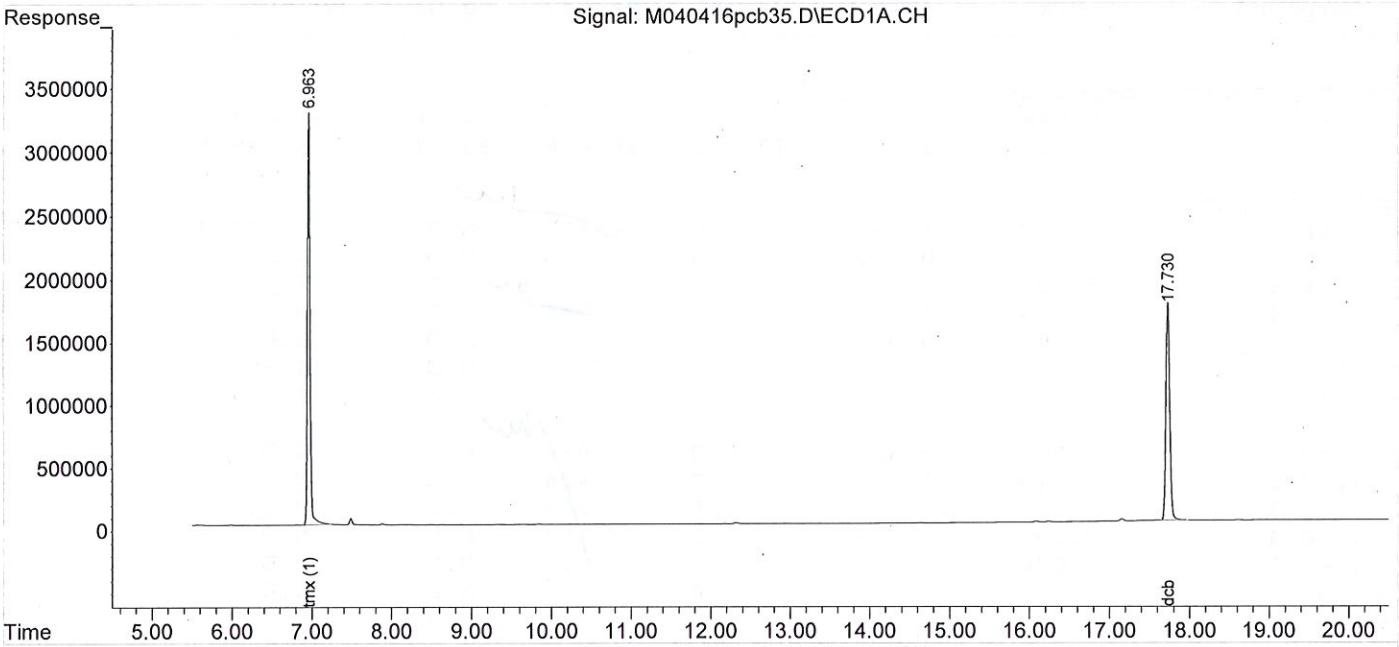
4/11/16

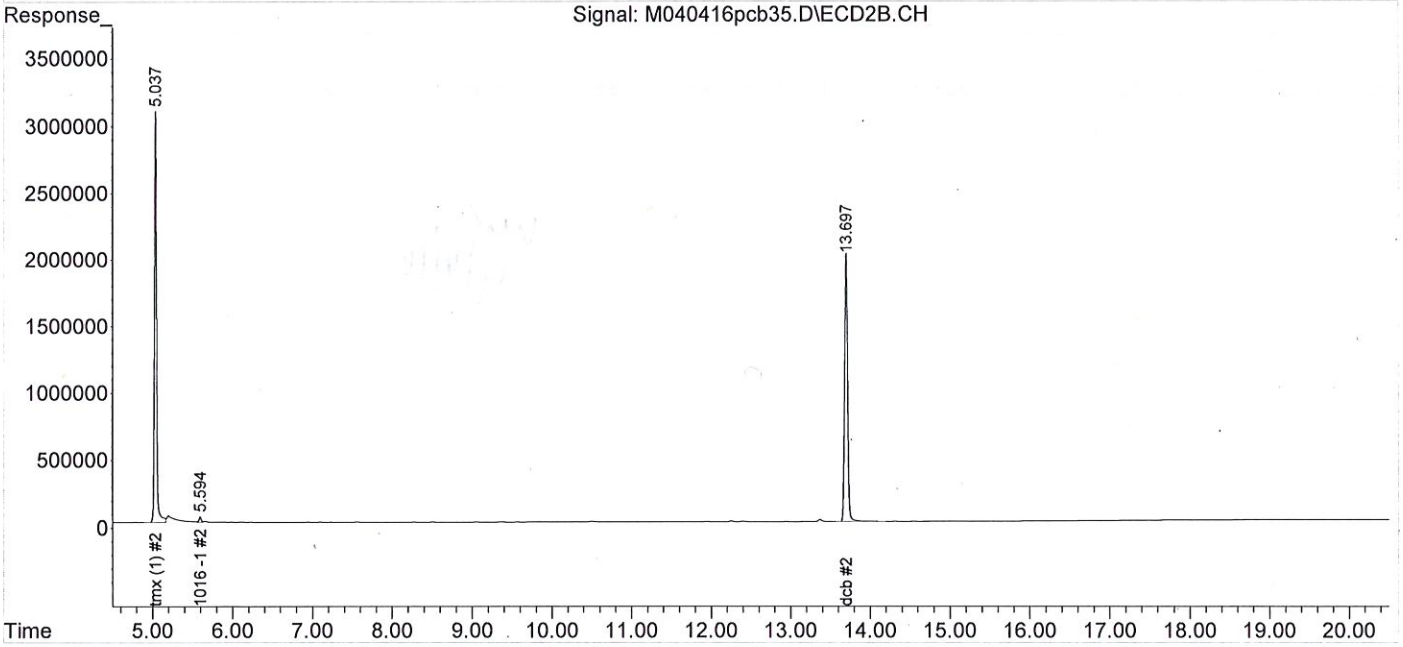
Quantitation Report (Not Reviewed)

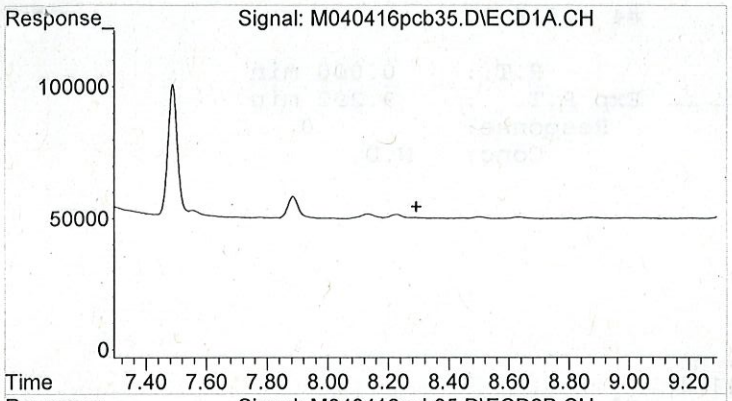
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 0:47 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:28:45 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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

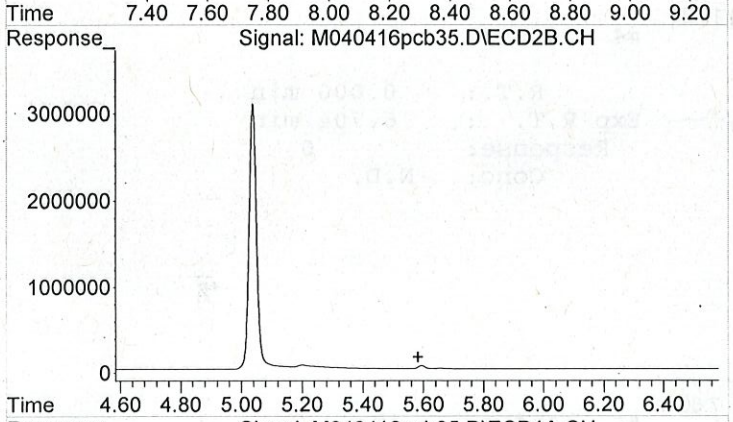






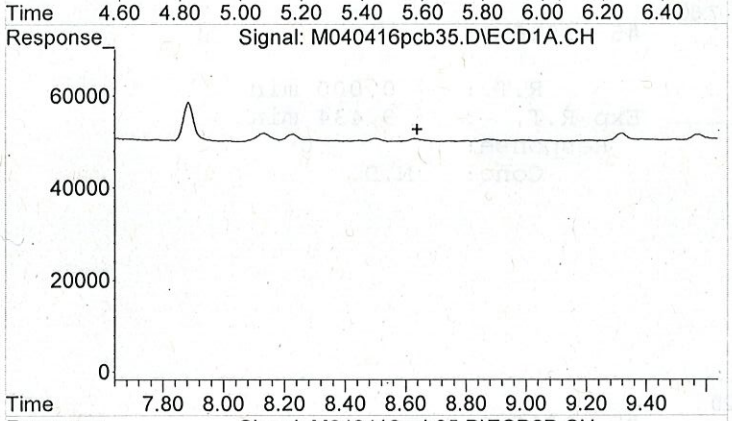
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 8.293 min
Response: 0
Conc: N.D.



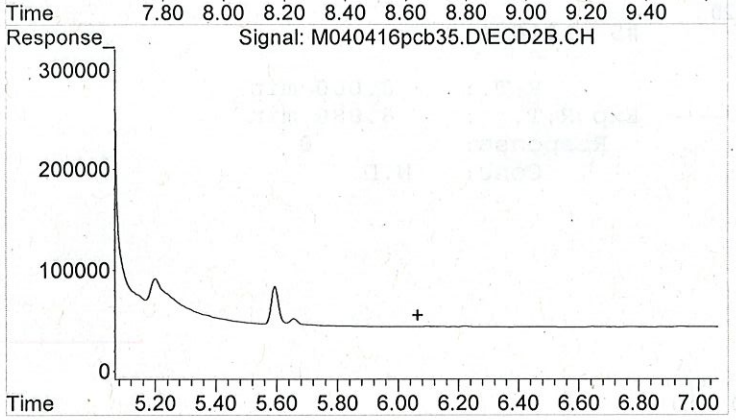
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.583 min
Response: 0
Conc: N.D.



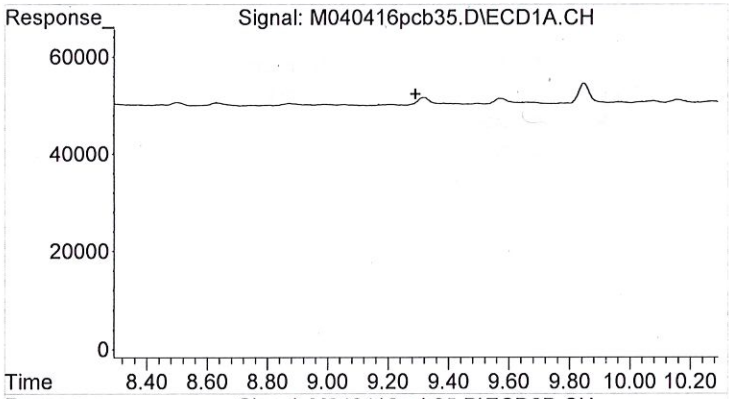
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.639 min
Response: 0
Conc: N.D.



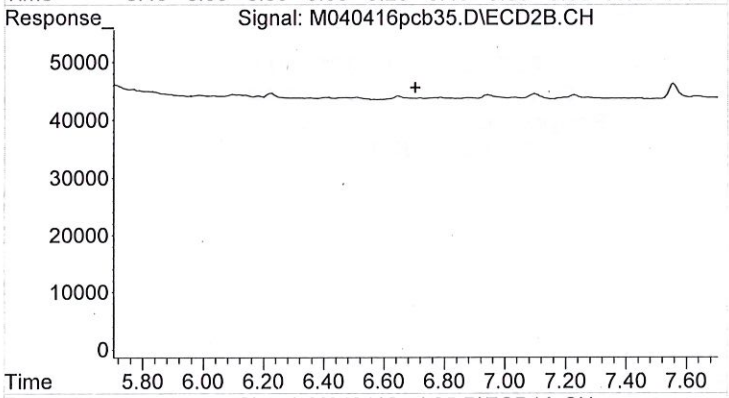
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 6.066 min
Response: 0
Conc: N.D.



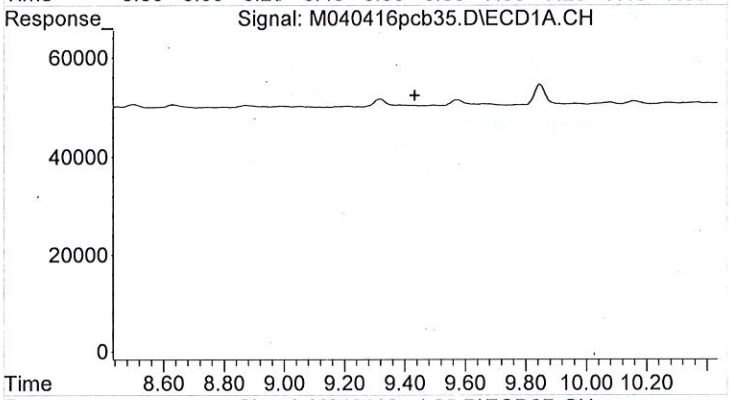
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.292 min
Response: 0
Conc: N.D.



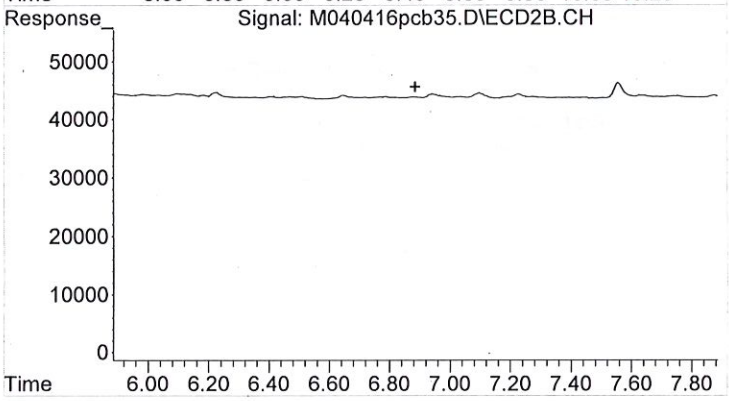
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.704 min
Response: 0
Conc: N.D.



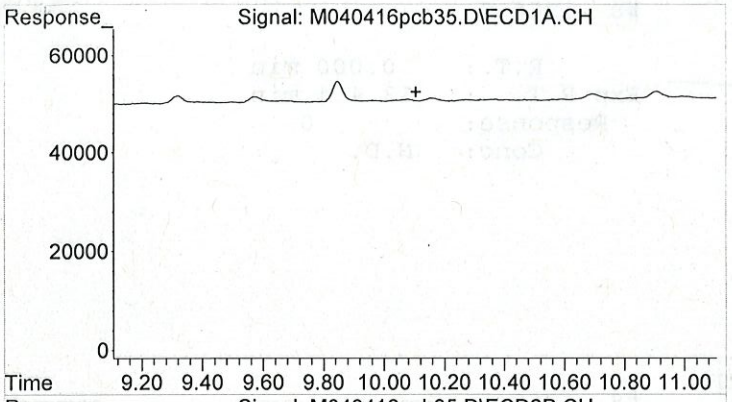
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.434 min
Response: 0
Conc: N.D.



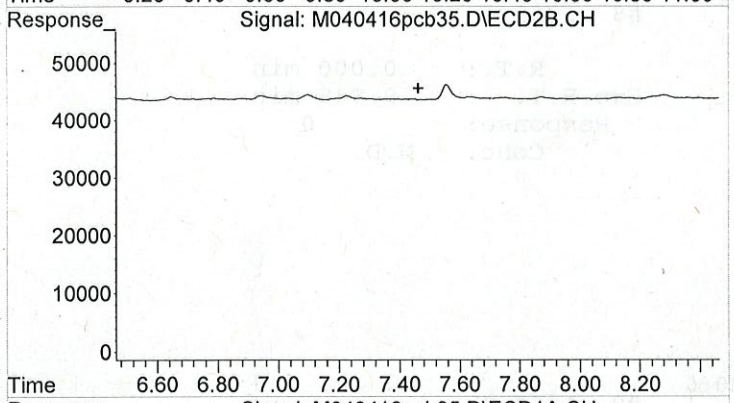
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.886 min
Response: 0
Conc: N.D.



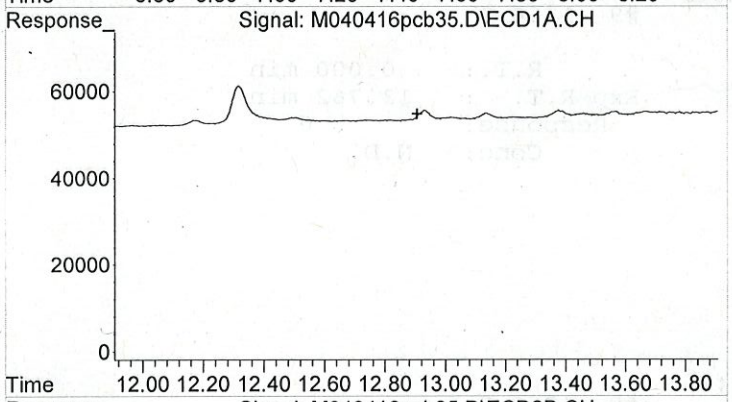
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 10.106 min
Response: 0
Conc: N.D.



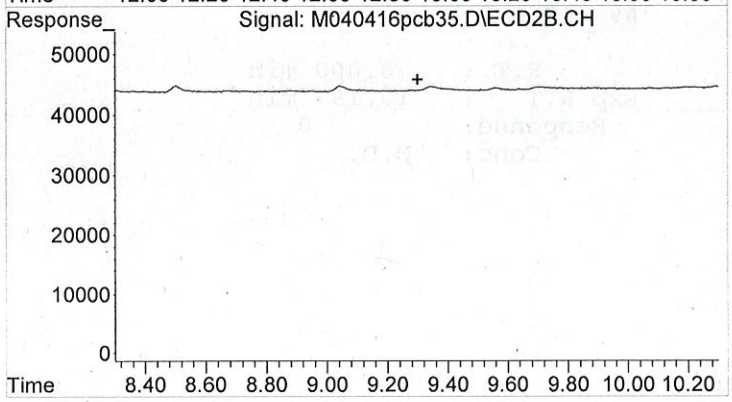
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 7.463 min
Response: 0
Conc: N.D.



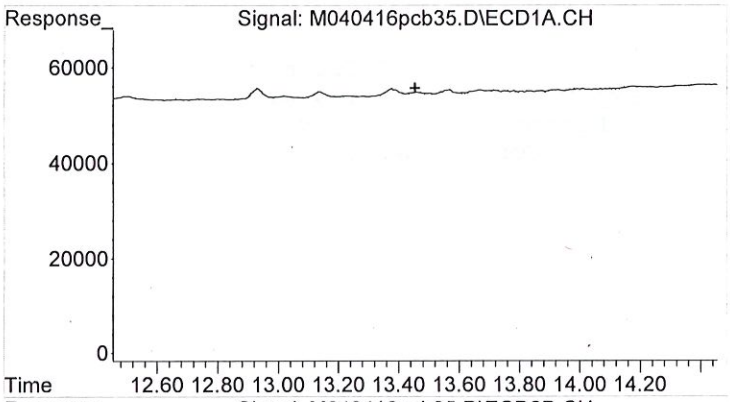
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.907 min
Response: 0
Conc: N.D.



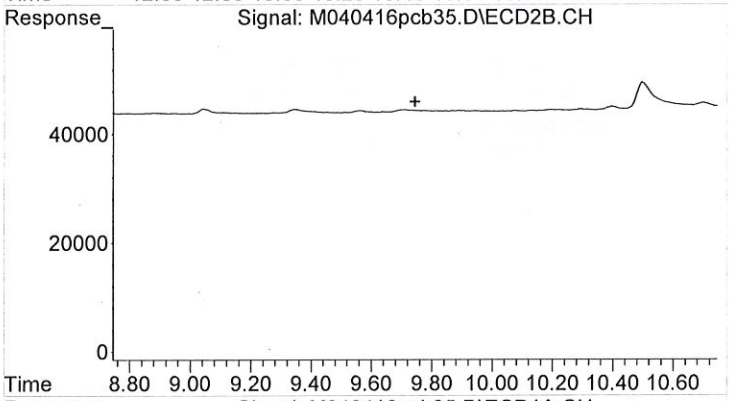
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 9.300 min
Response: 0
Conc: N.D.



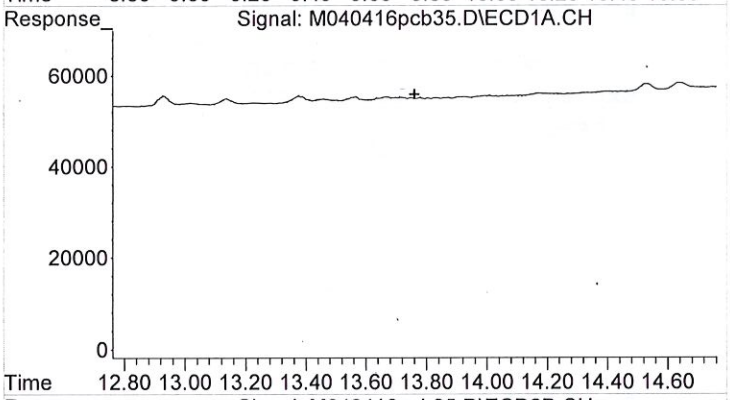
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.454 min
Response: 0
Conc: N.D.



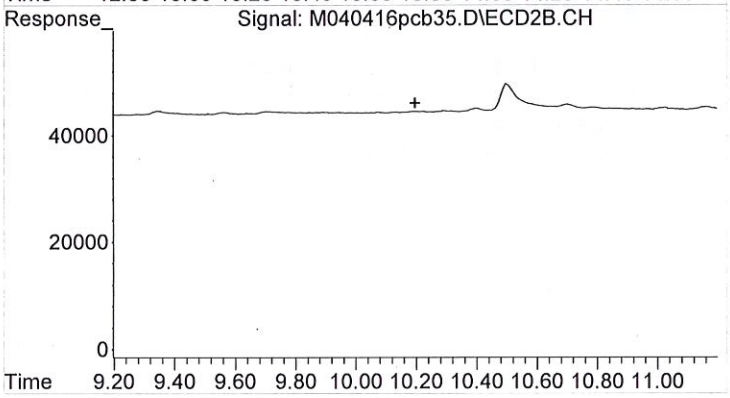
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.745 min
Response: 0
Conc: N.D.



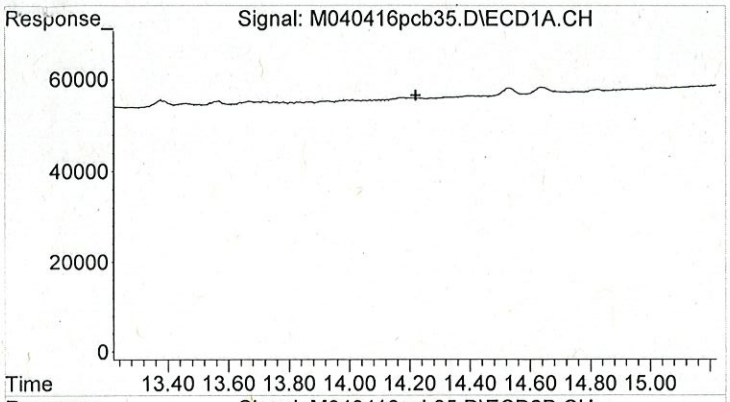
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.762 min
Response: 0
Conc: N.D.



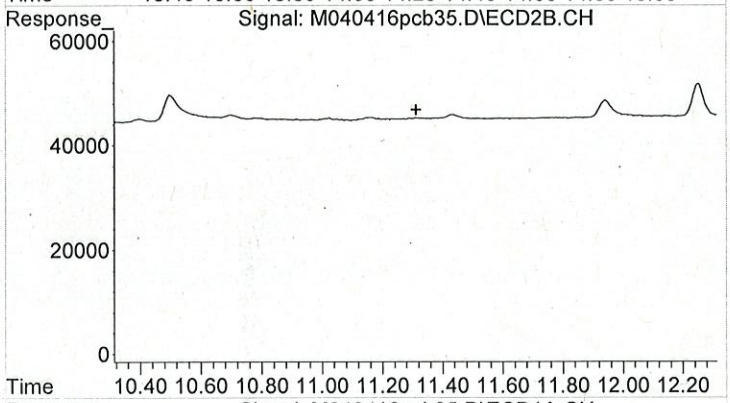
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 10.197 min
Response: 0
Conc: N.D.



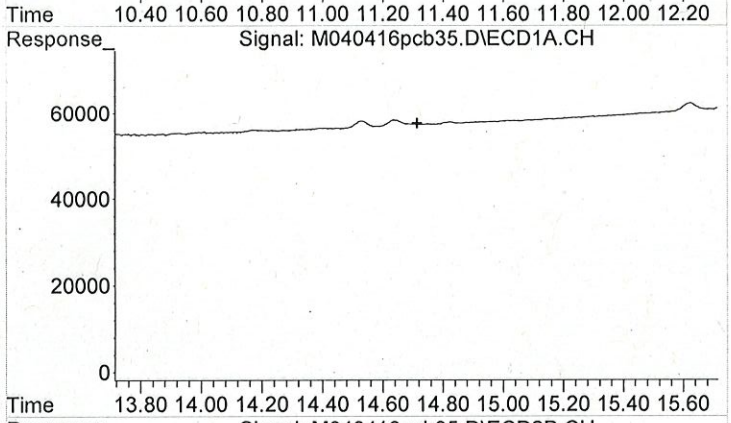
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 14.221 min
Response: 0
Conc: N.D.



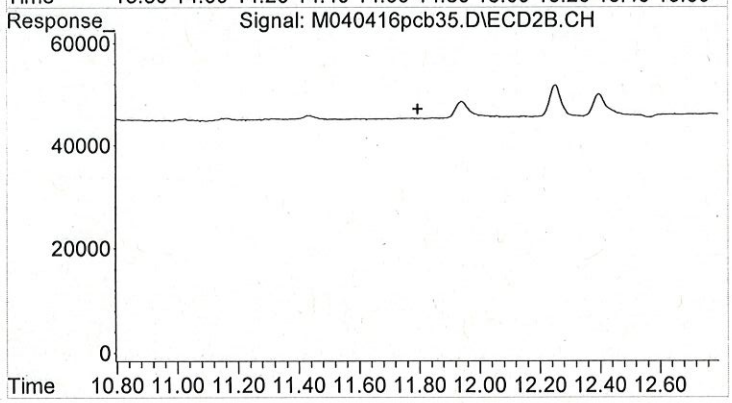
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 11.313 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 14.715 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 11.795 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 0:47 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:26:27 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 1242 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1242-2	0.000	0.000	0	0	N.D.	N.D. d
4) L1 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1242-5	0.000	0.000	0	0	N.D.	N.D. d
Sum 1242 -1			0	0	N.D.	N.D.
Average 1242 -1					0.000	0.000

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

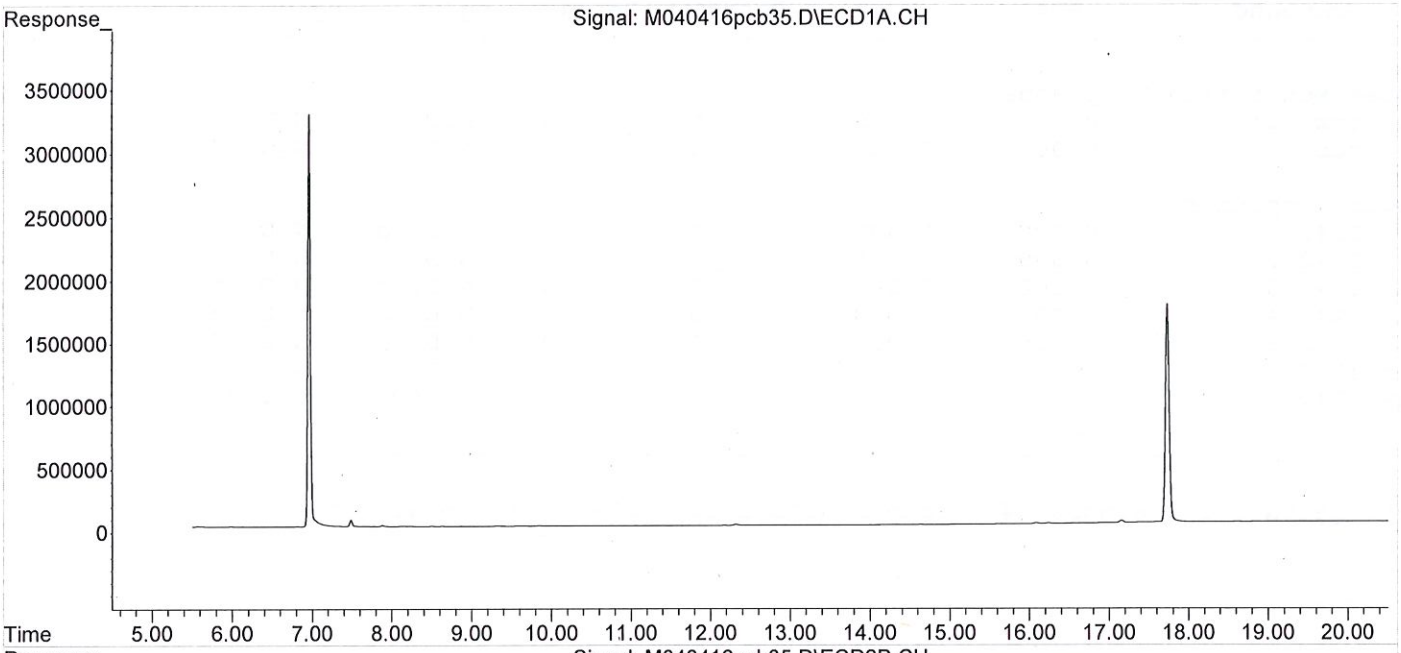
ww
4/12/16

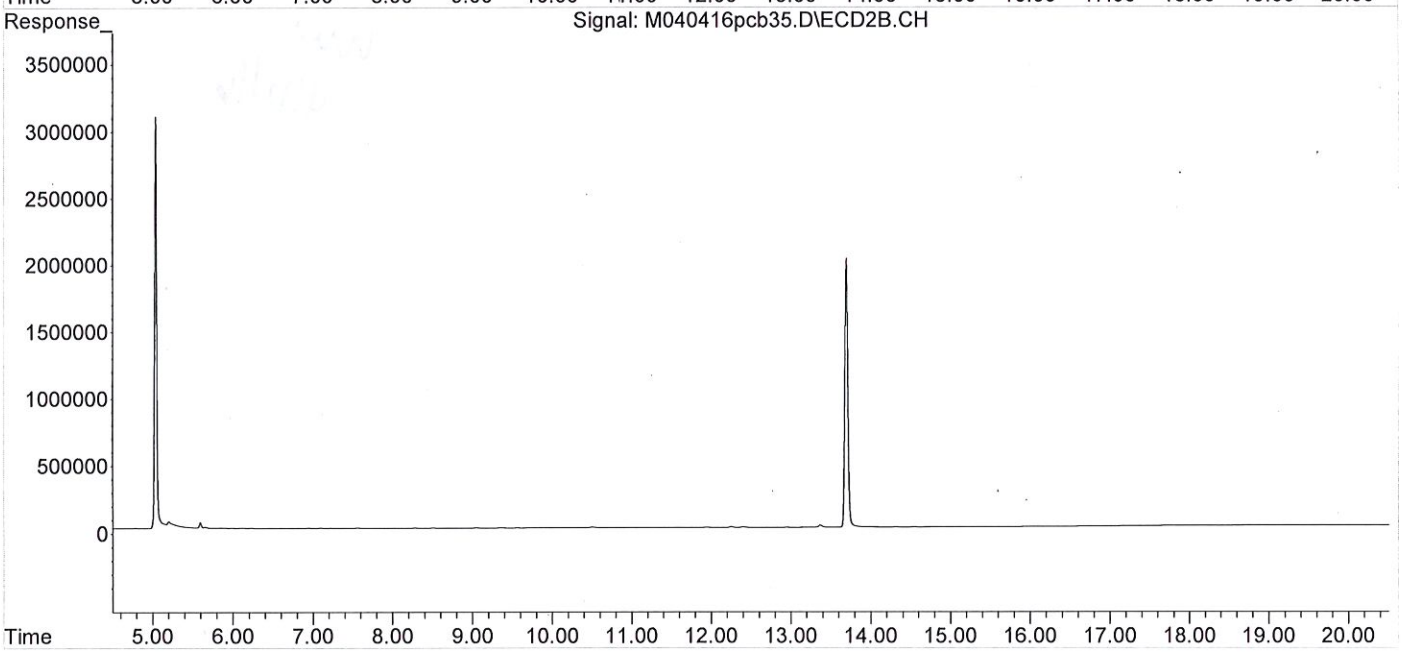
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 0:47 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:26:27 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 0:47 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:58:49 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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	11.328	0.000	318	0	NoCal	N.D.	
Target Compounds							
2) L1 1242 -1	8.632	0.000	686	0	3260.997	N.D.	#
3) L1 1242-2	0.000	6.878	0	395	N.D.	N.D.	
4) L1 1242-3	9.660	0.000	429	0	3325.556	N.D.	#
5) L1 1242-4	10.369	8.132	339	287	3481.009	N.D.	#
6) L1 1242-5	0.000	0.000	0	0	N.D.	N.D.	
Sum 1242 -1			1453	0	10067.562	N.D.	
Average 1242 -1					3355.854	0.000	

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

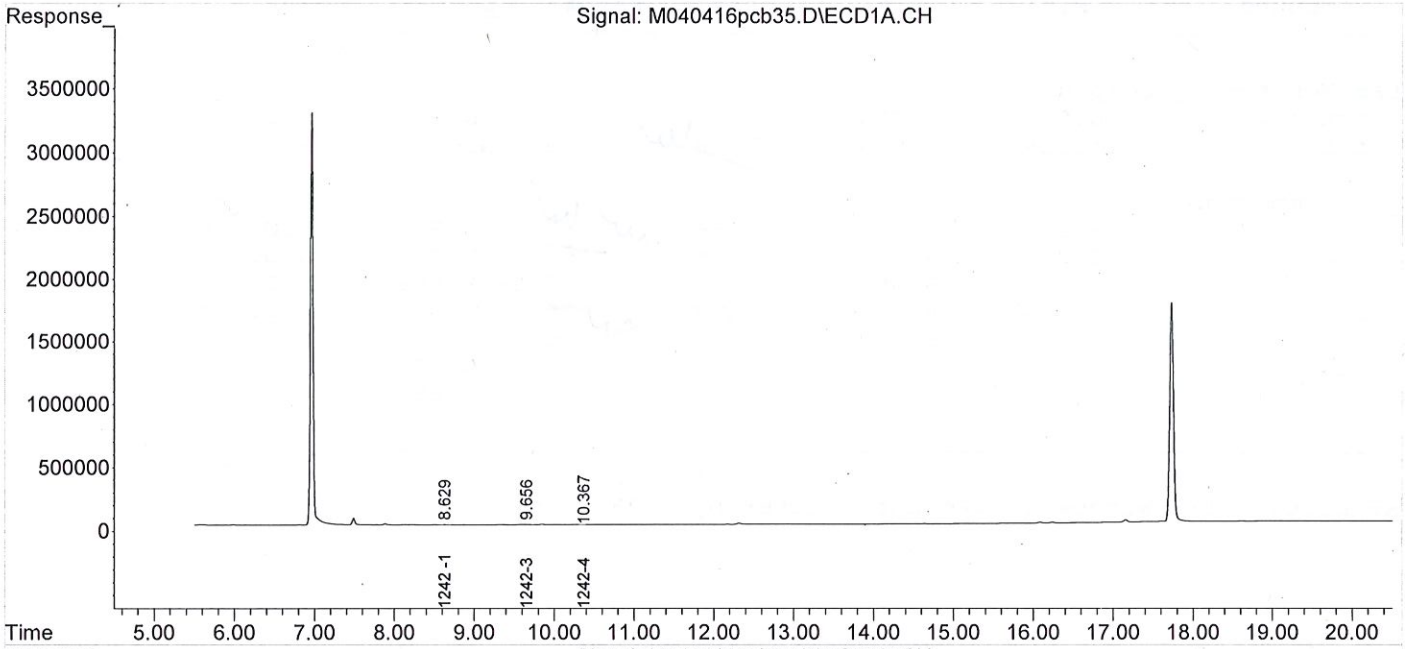
4/11/16

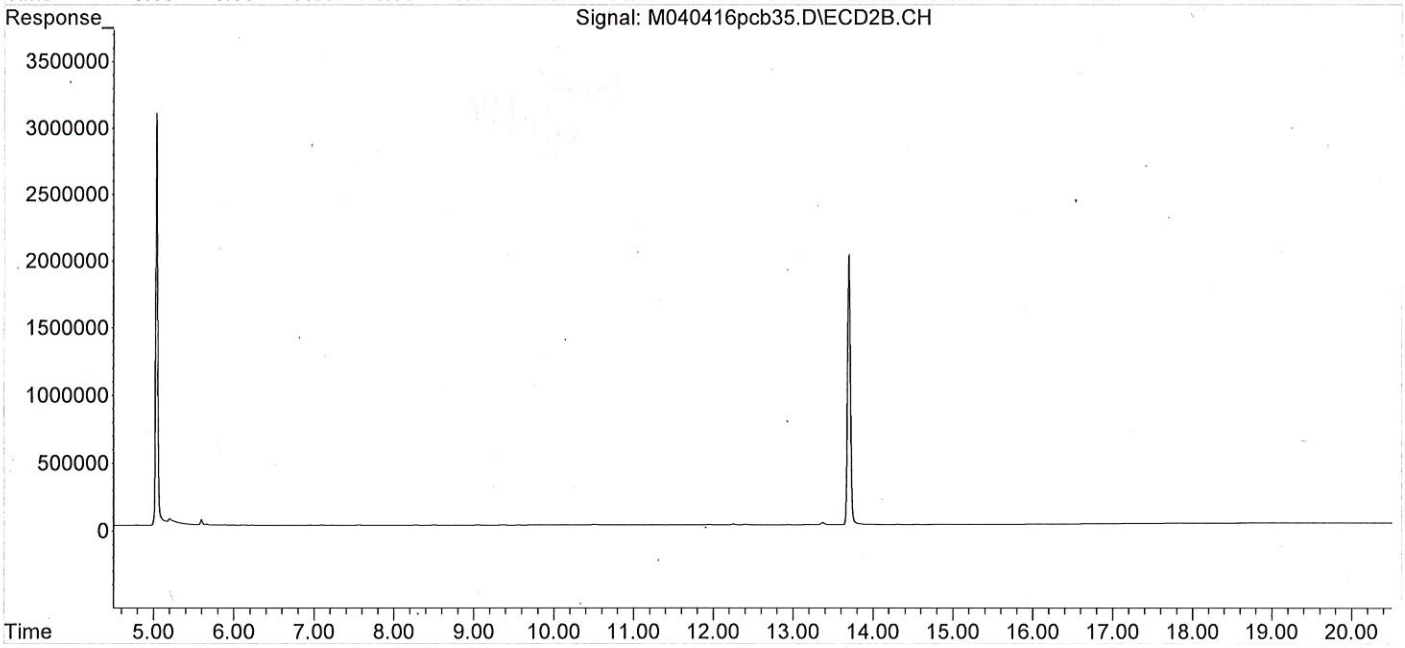
Quantitation Report (Not Reviewed)

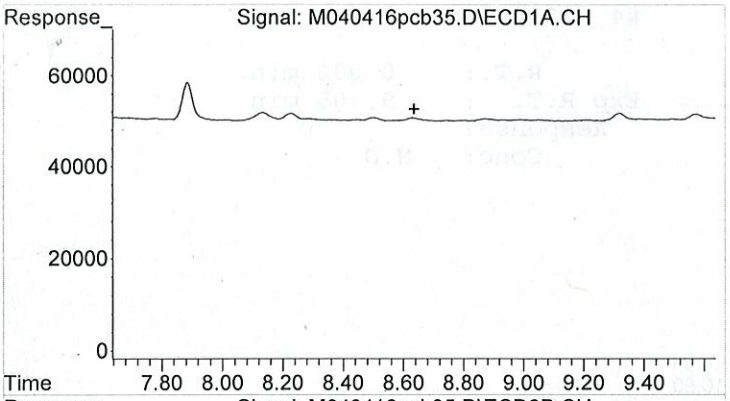
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb35.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 0:47 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:58:49 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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

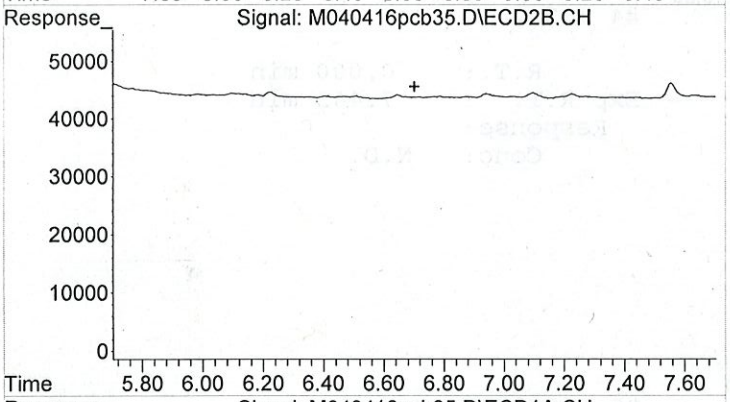






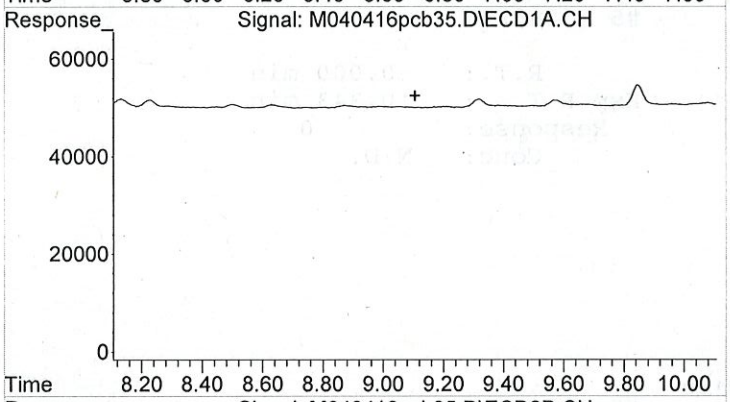
#2 1242 -1

R.T.: 0.000 min
Exp R.T. : 8.637 min
Response: 0
Conc: N.D.



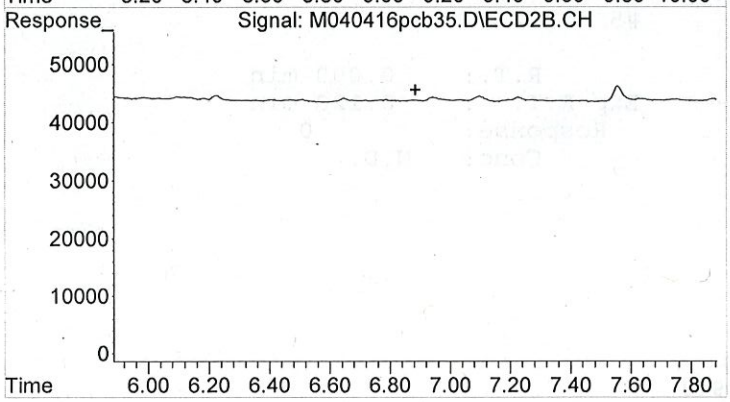
#2 1242 -1

R.T.: 0.000 min
Exp R.T. : 6.703 min
Response: 0
Conc: N.D.



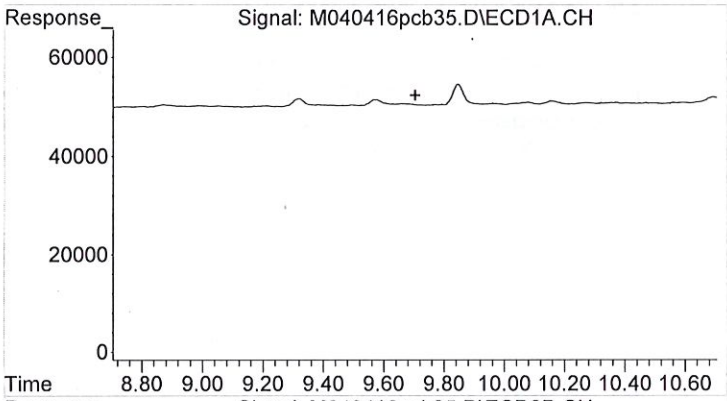
#3 1242-2

R.T.: 0.000 min
Exp R.T. : 9.107 min
Response: 0
Conc: N.D.



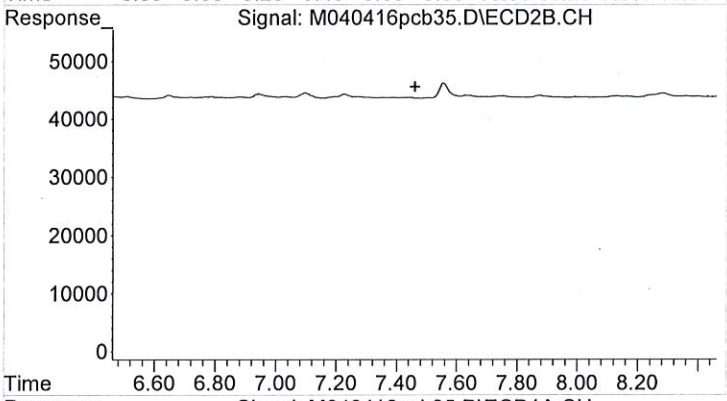
#3 1242-2

R.T.: 0.000 min
Exp R.T. : 6.885 min
Response: 0
Conc: N.D.



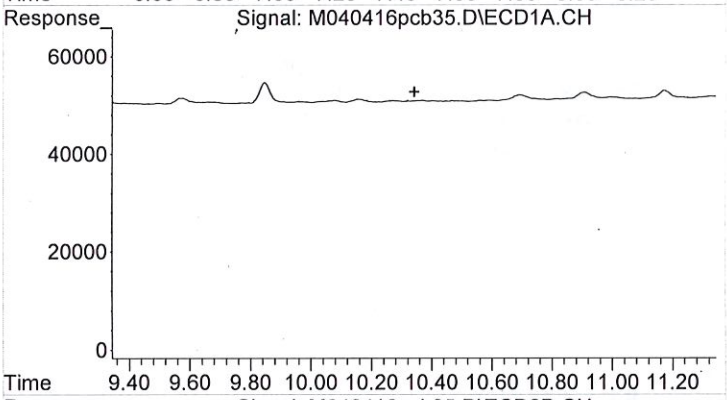
#4 1242-3

R.T.: 0.000 min
Exp R.T. : 9.705 min
Response: 0
Conc: N.D.



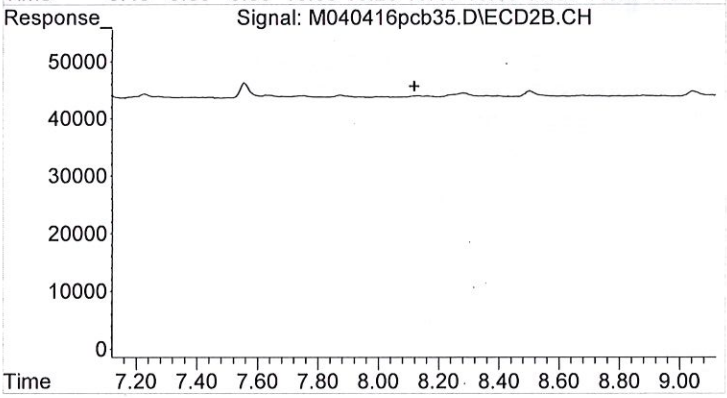
#4 1242-3

R.T.: 0.000 min
Exp R.T. : 7.462 min
Response: 0
Conc: N.D.



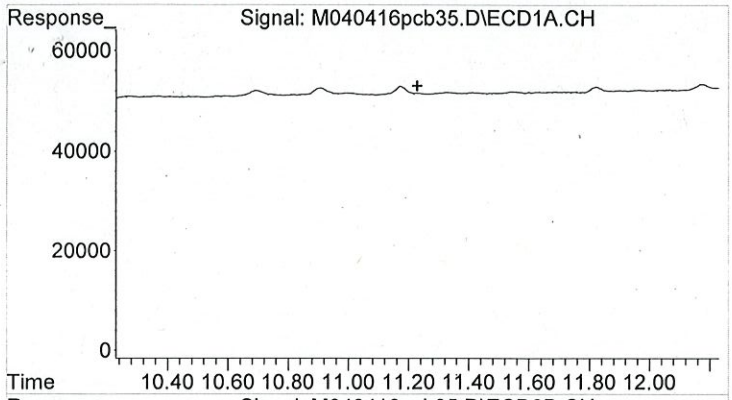
#5 1242-4

R.T.: 0.000 min
Exp R.T. : 10.343 min
Response: 0
Conc: N.D.



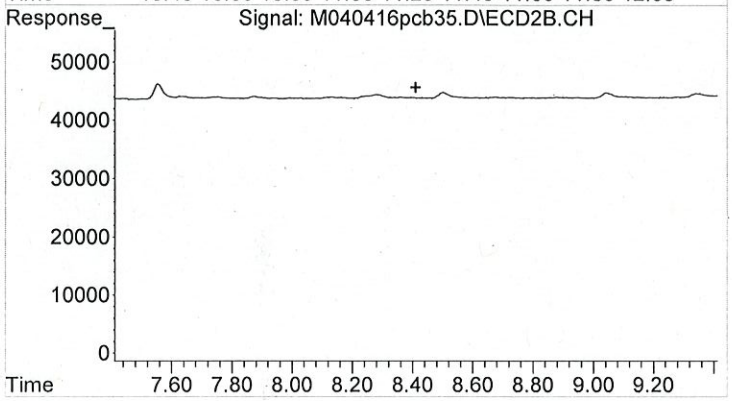
#5 1242-4

R.T.: 0.000 min
Exp R.T. : 8.120 min
Response: 0
Conc: N.D.



#6 1242-5

R.T.: 0.000 min
Exp R.T. : 11.229 min
Response: 0
Conc: N.D.



#6 1242-5

R.T.: 0.000 min
Exp R.T. : 8.412 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:18 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 06 15:27:17 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.965	5.039	4035818	2834319	117.712	105.428
12) S2 dcb	17.734	13.698	2516400	1793583	121.207	113.229
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
8) L2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

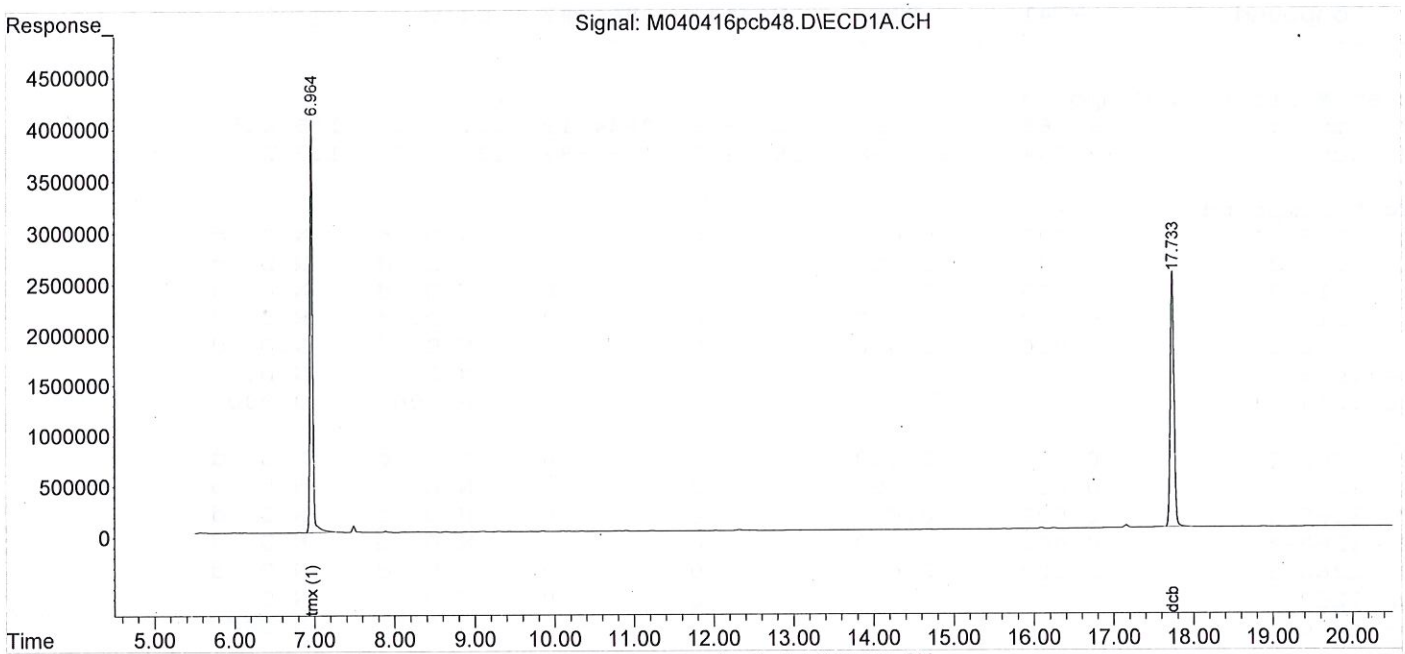
4/6/16

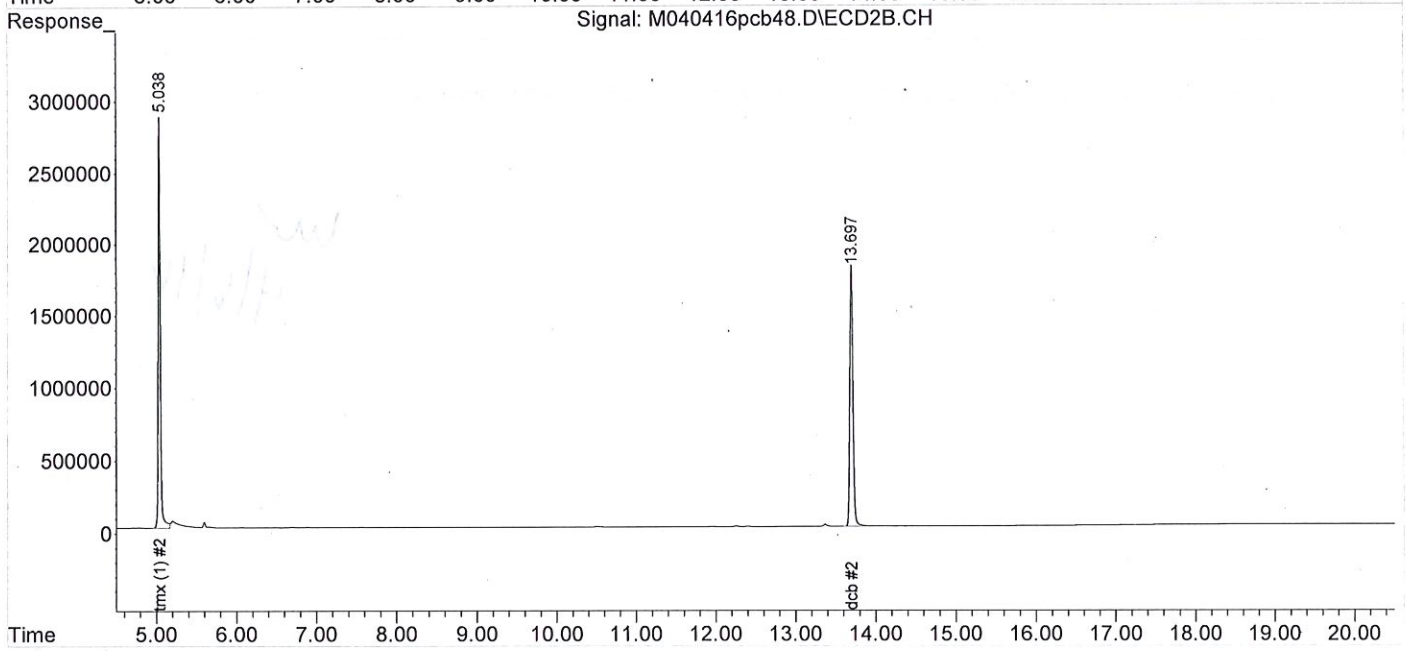
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:18 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 06 15:27:17 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:18 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:33 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.965	5.039	4035818	2834319	117.712	105.428
12)	S2 dcb	17.734	13.698	2516400	1793583	121.207	113.229
	Target Compounds						
2)	L1 1016 -1	0.000	5.594	0	37036	N.D.	72.694 #
3)	L1 1016-2	0.000	6.064	0	2739	N.D.	N.D.
4)	L1 1016-3	0.000	6.703	0	3386	N.D.	N.D.
5)	L1 1016-4	0.000	6.886	0	3321	N.D.	N.D.
6)	L1 1016-5	0.000	7.461	0	2371	N.D.	N.D.
	Sum 1016 -1			0	37036	N.D.	65.747
	Average 1016 -1					0.000	65.747
7)	L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8)	L2 1260-2	0.000	9.700	0	644	N.D.	N.D.
9)	L2 1260-3	0.000	10.197	0	249	N.D.	N.D.
10)	L2 1260-4	0.000	11.304	0	254	N.D.	N.D.
11)	L2 1260-5	0.000	11.761	0	215	N.D.	N.D.
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

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

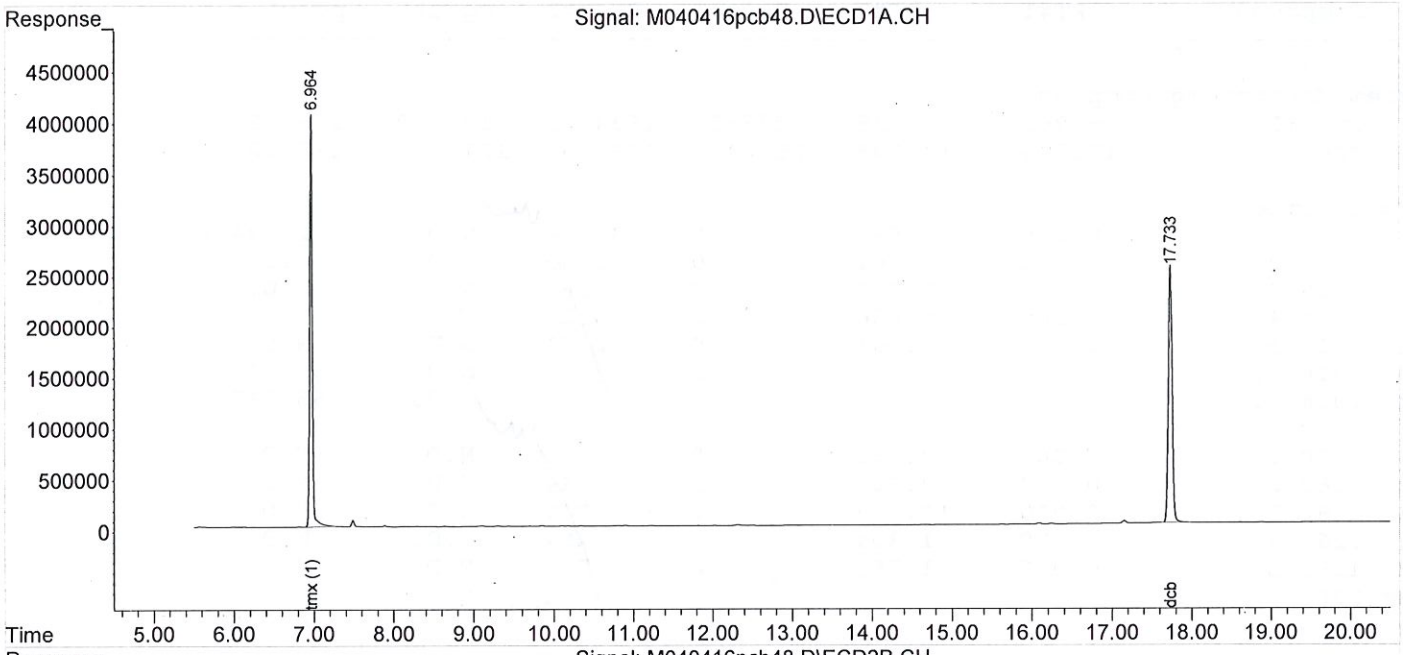
mw
4/6/16

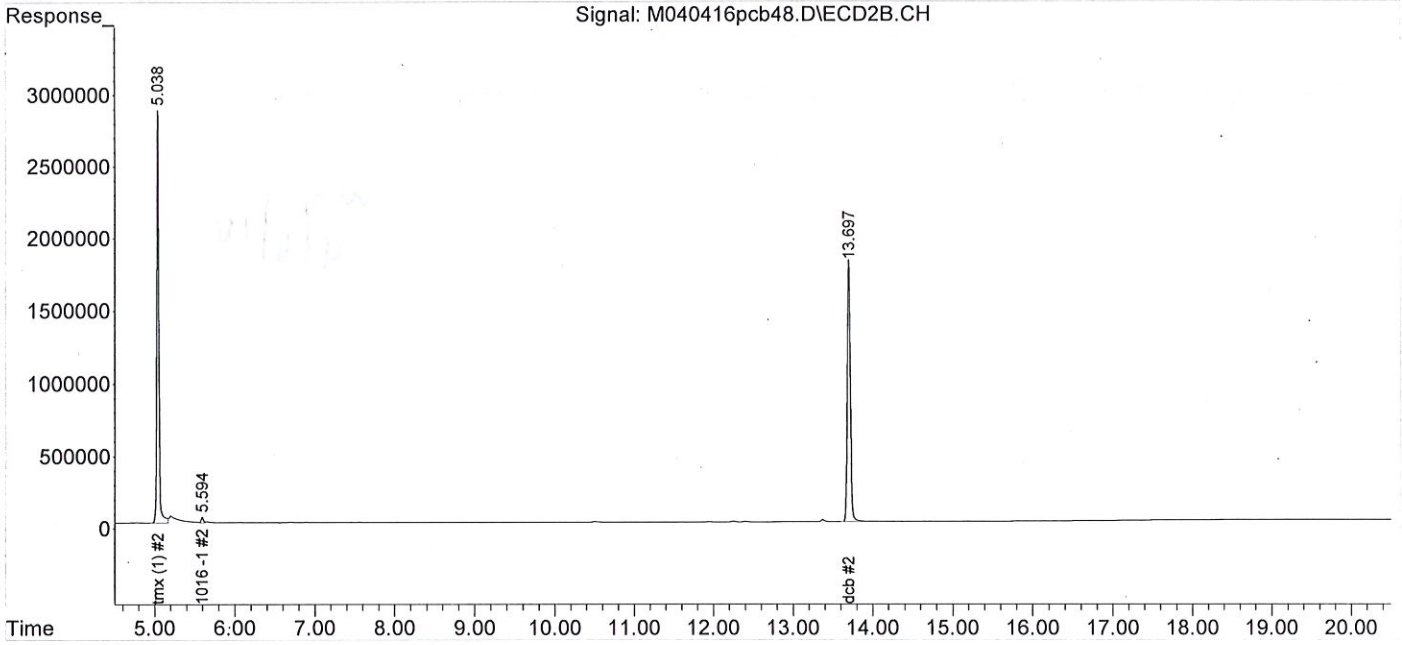
Quantitation Report (Not Reviewed)

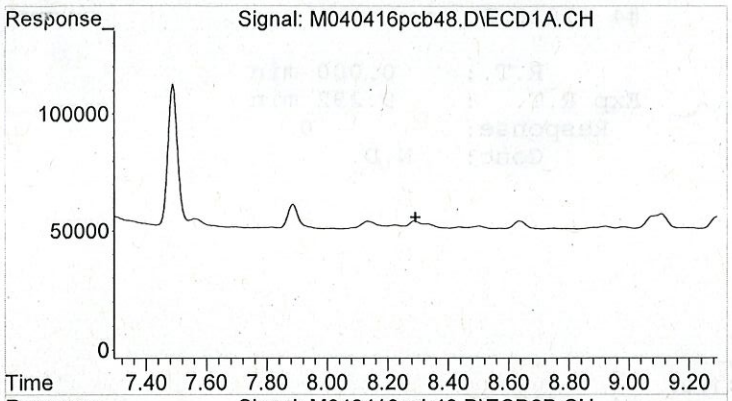
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:18 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:33 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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

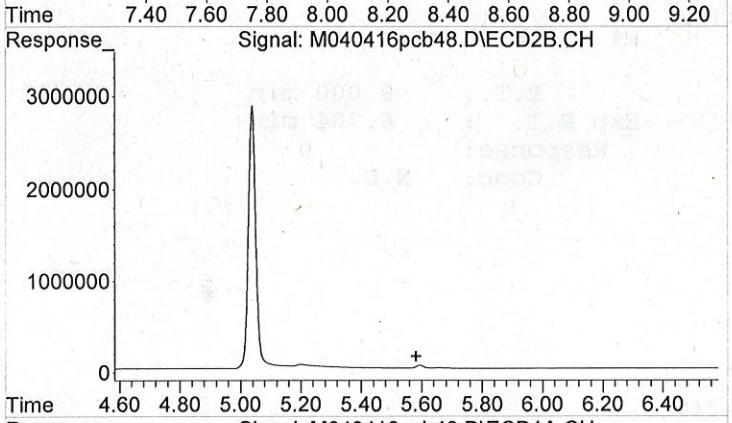






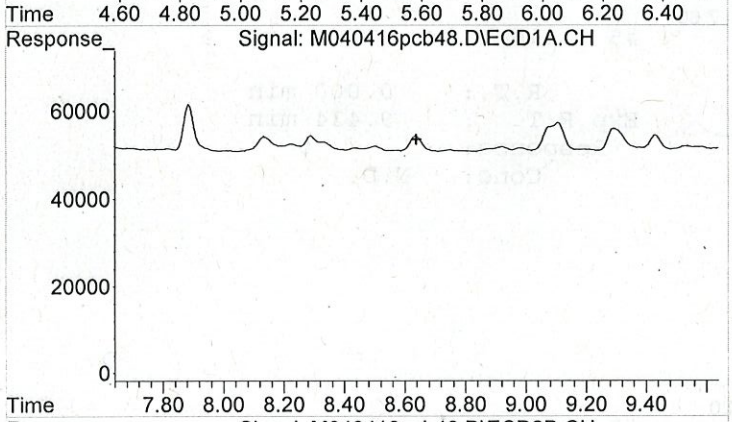
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 8.293 min
Response: 0
Conc: N.D.



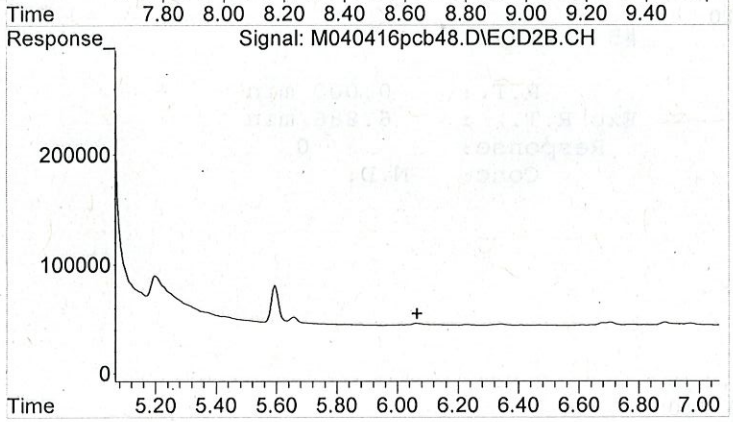
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.583 min
Response: 0
Conc: N.D.



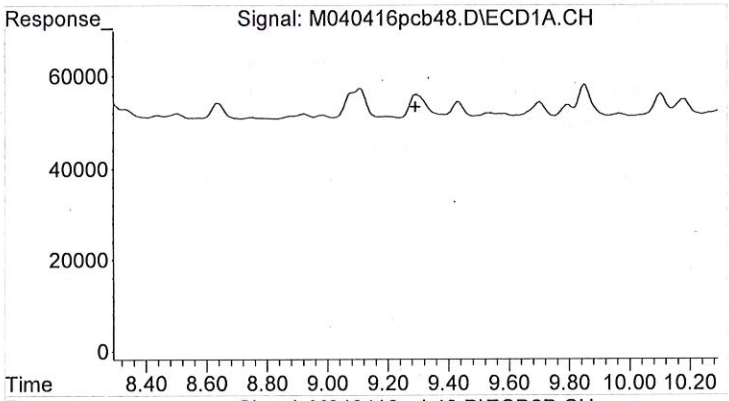
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.639 min
Response: 0
Conc: N.D.



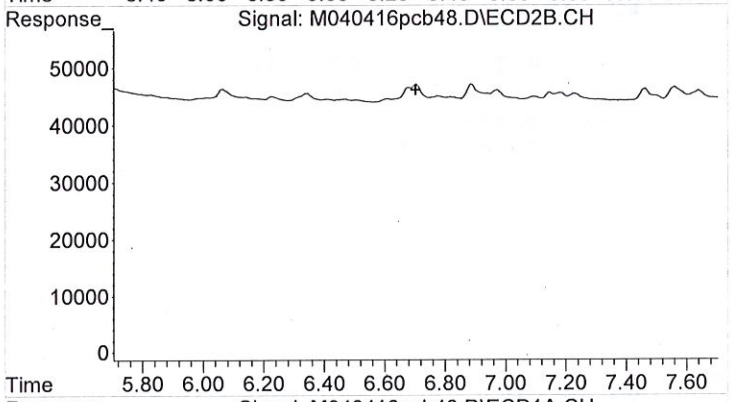
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 6.066 min
Response: 0
Conc: N.D.



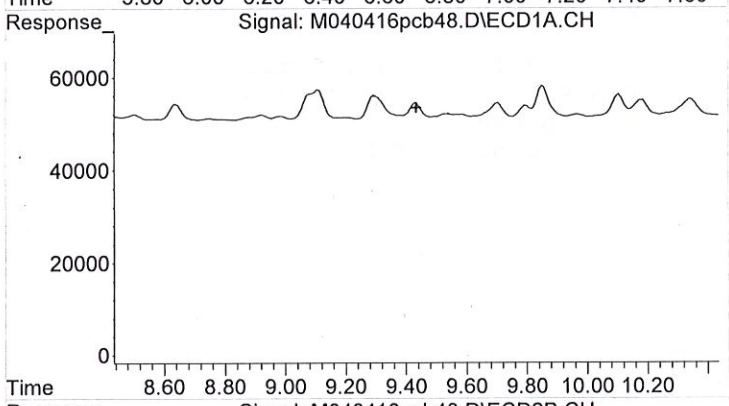
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.292 min
Response: 0
Conc: N.D.



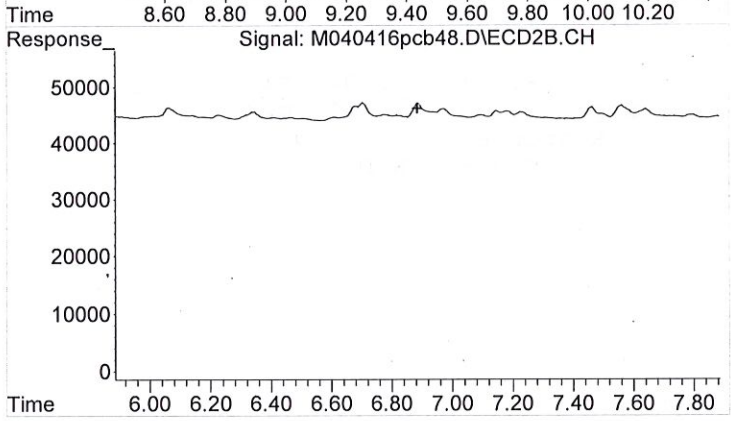
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.704 min
Response: 0
Conc: N.D.



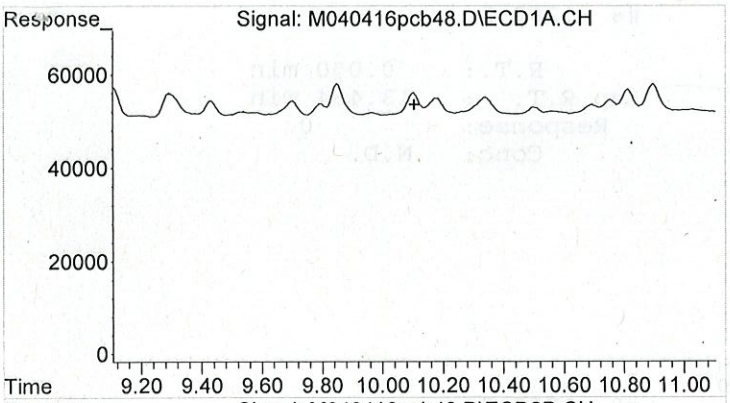
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.434 min
Response: 0
Conc: N.D.



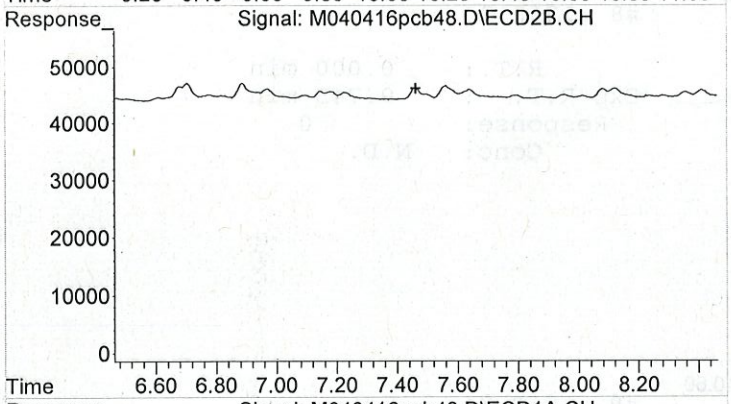
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.886 min
Response: 0
Conc: N.D.



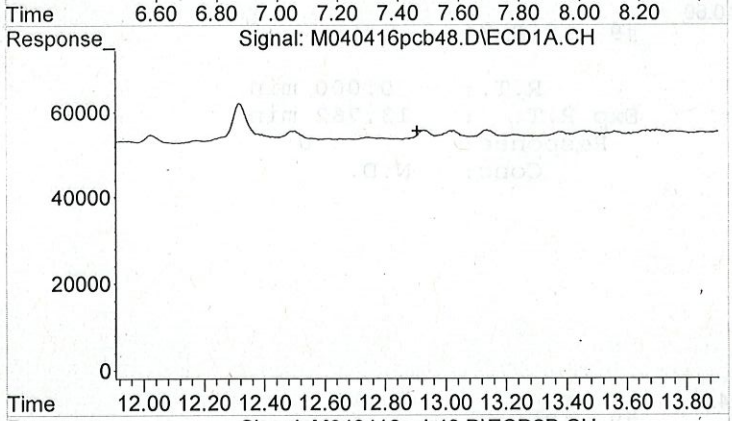
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 10.106 min
Response: 0
Conc: N.D.



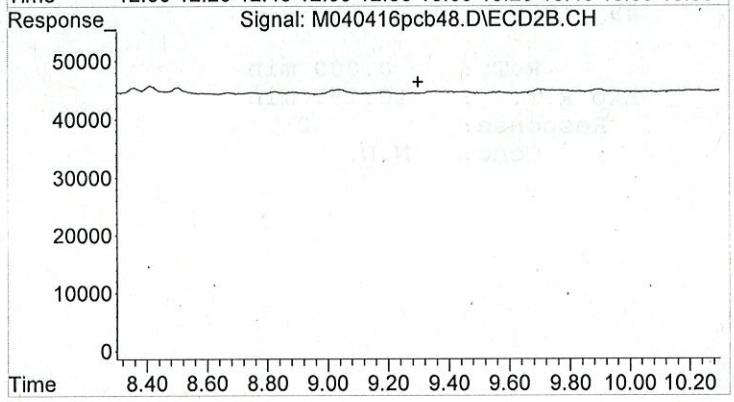
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 7.463 min
Response: 0
Conc: N.D.



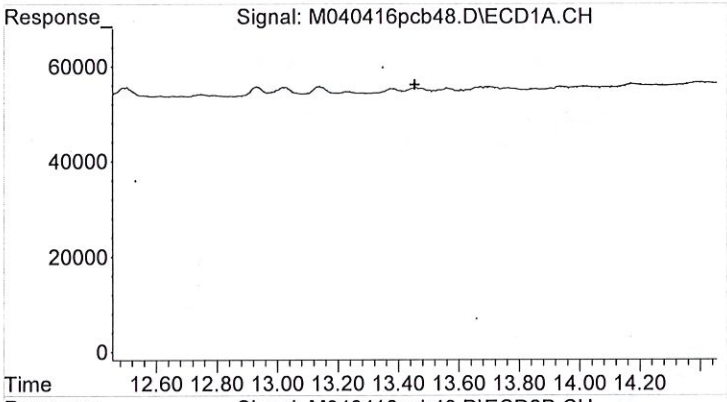
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.907 min
Response: 0
Conc: N.D.



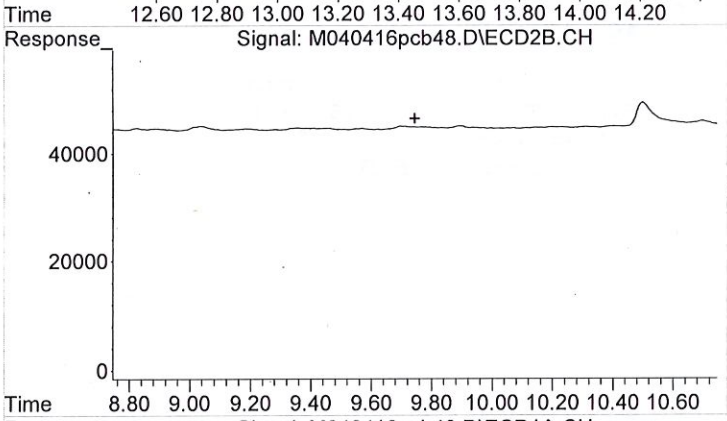
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 9.300 min
Response: 0
Conc: N.D.



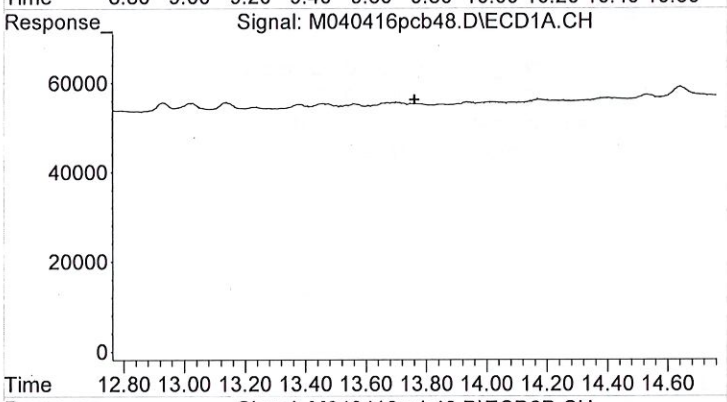
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.454 min
Response: 0
Conc: N.D.



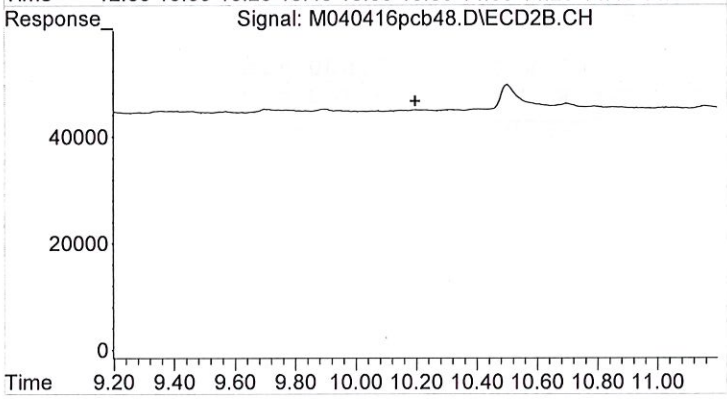
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.745 min
Response: 0
Conc: N.D.



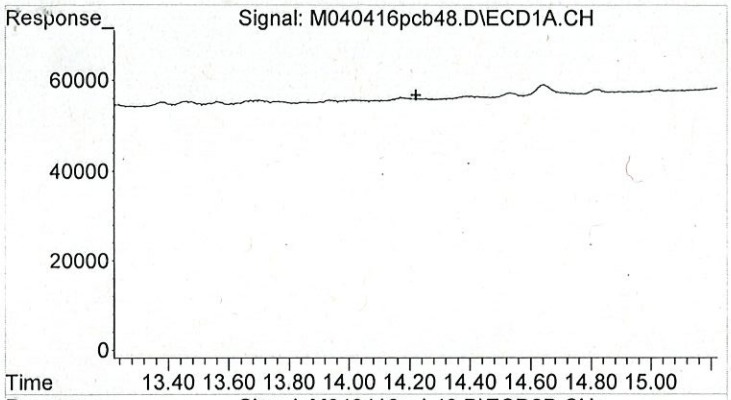
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.762 min
Response: 0
Conc: N.D.



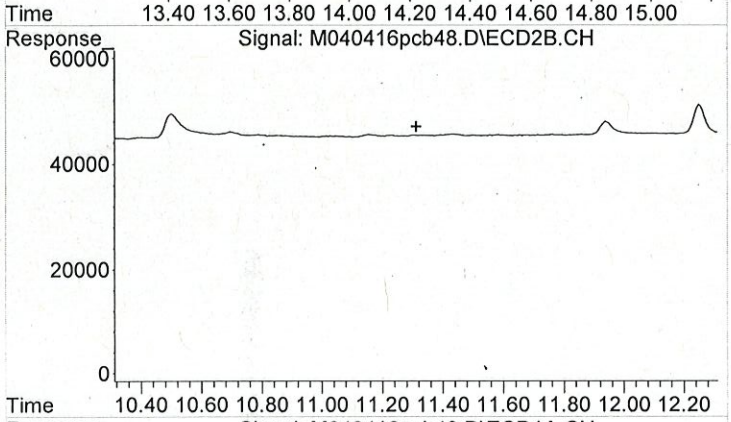
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 10.197 min
Response: 0
Conc: N.D.



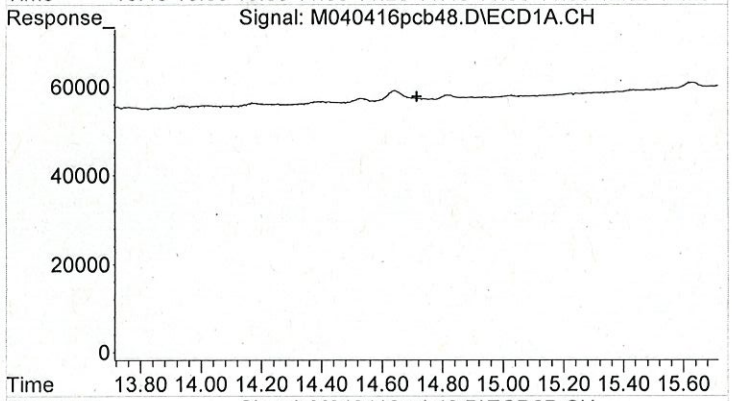
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 14.221 min
Response: 0
Conc: N.D.



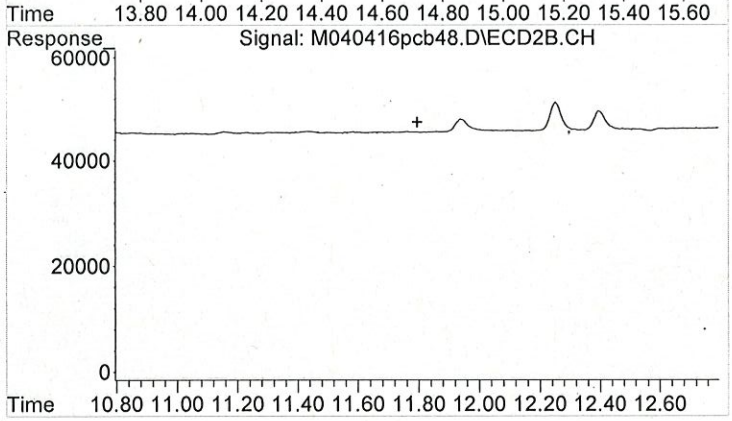
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 11.313 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 14.715 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 11.795 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:18 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:39:16 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 1242 -1	0.000	0.000	0	0	N.D. d	N.D. d
3)	L1 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
4)	L1 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
5)	L1 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
6)	L1 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242 -1			0	0	N.D.	N.D.
	Average 1242 -1					0.000	0.000

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

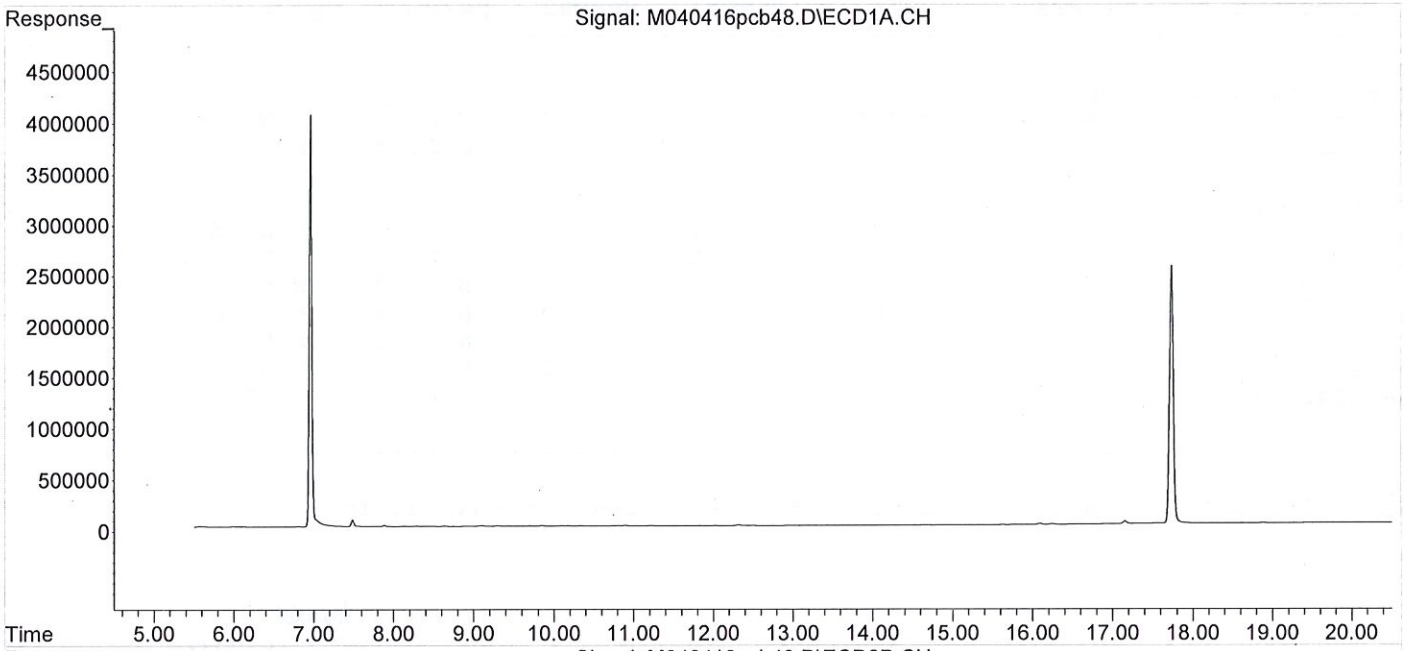
lw
4/12/16

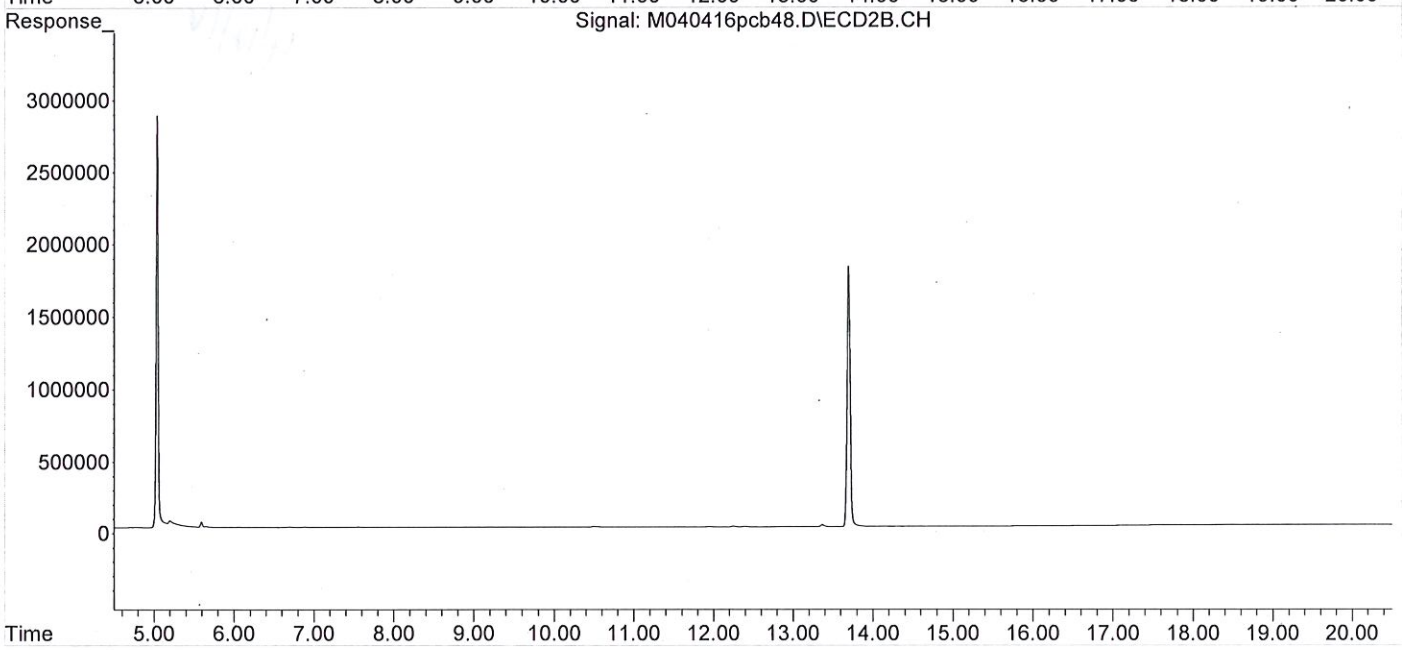
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:18 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:39:16 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:18 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:37 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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	11.317	8.237	~~1775~~	~~722~~	NoCal	NoCal
Target Compounds						
2) L1 1242 -1	8.636	6.703	3471	3386	3257.476	1.085 #
3) L1 1242-2	9.105	6.886	6373	3321	3333.426	0.393 #
4) L1 1242-3	9.700	7.461	3113	2371	3321.232	N.D. #
5) L1 1242-4	10.340	8.121	3669	2058	0.096	2.086 #
6) L1 1242-5	11.223	8.412	4829	1676	2.689	1.586 #
Sum 1242 -1			21455	10442	9914.919	5.139
Average 1242 -1					1982.984	1.285

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

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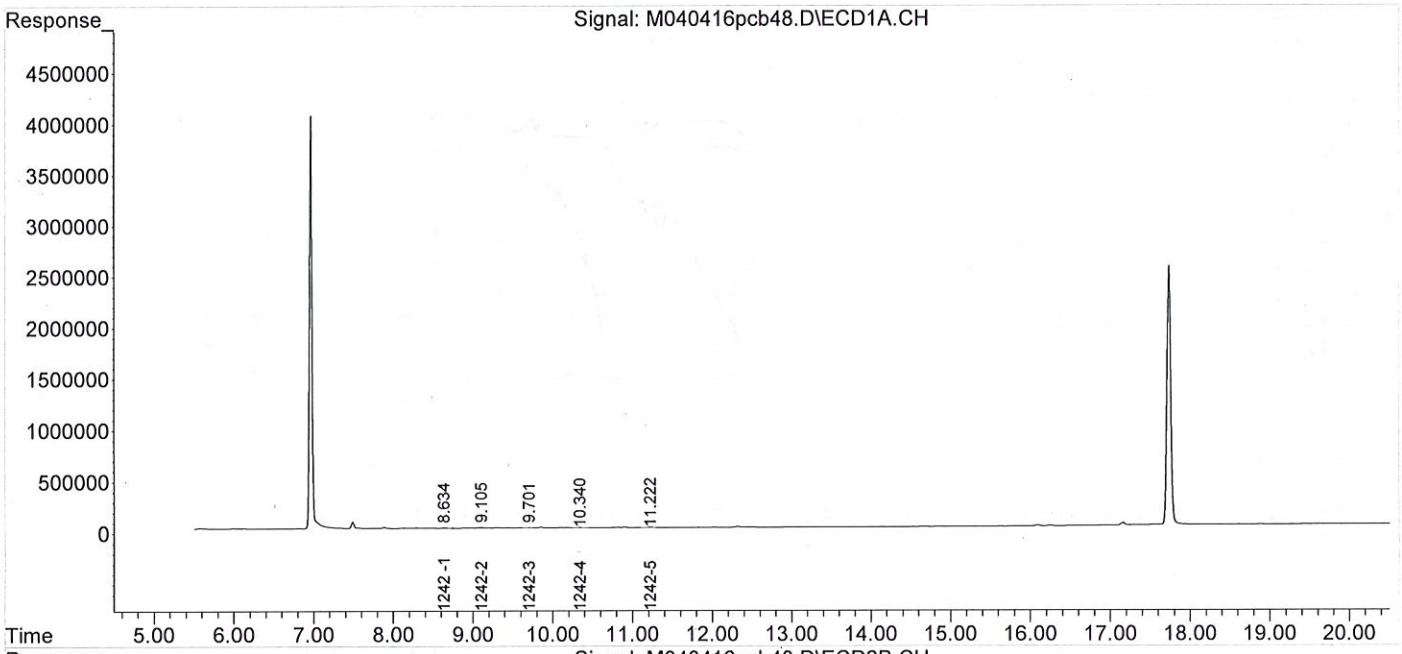
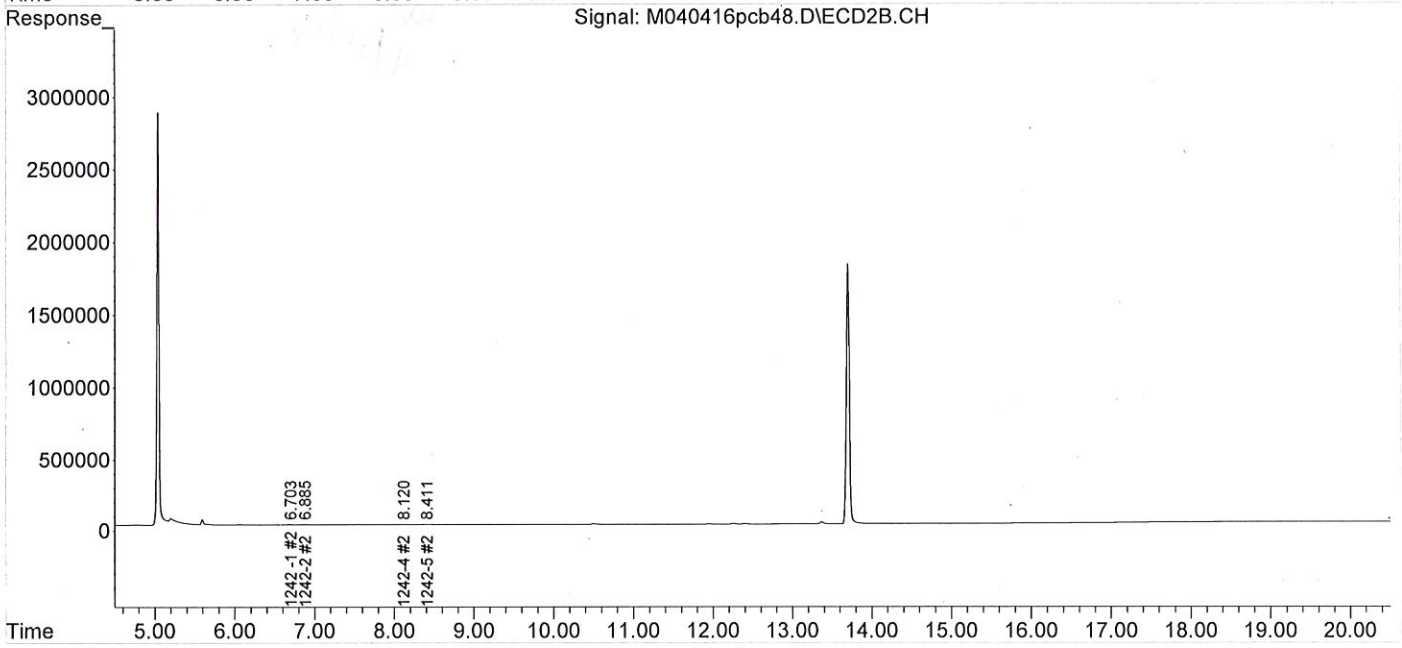
Quantitation Report (Not Reviewed)

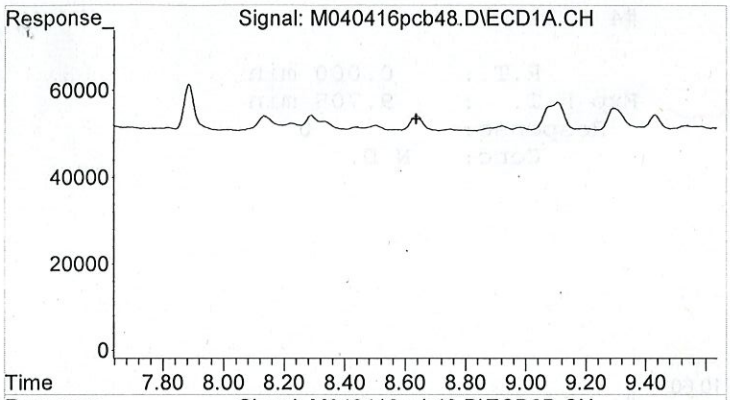
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb48.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:18 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:37 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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

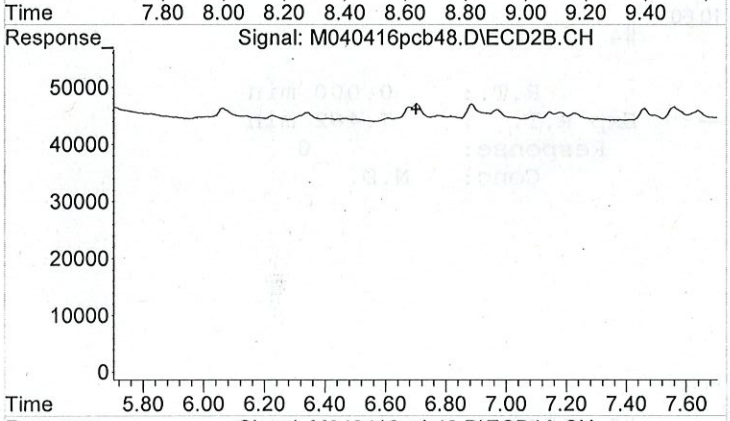






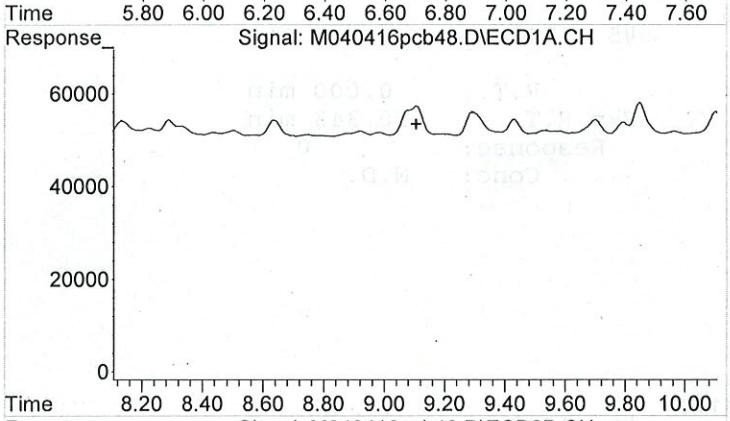
#2 1242 -1

R.T.: 0.000 min
Exp R.T. : 8.637 min
Response: 0
Conc: N.D.



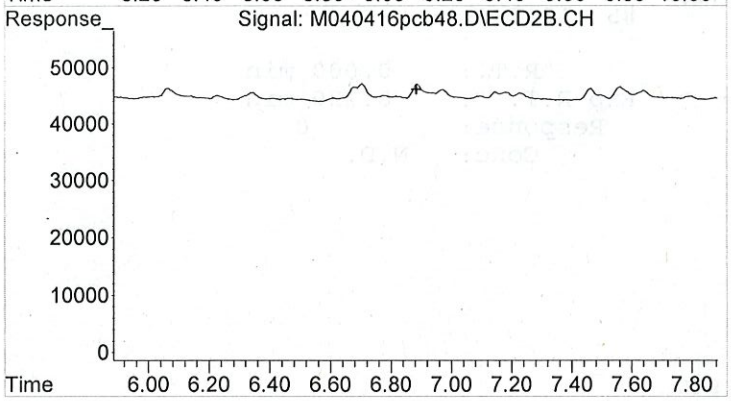
#2 1242 -1

R.T.: 0.000 min
Exp R.T. : 6.703 min
Response: 0
Conc: N.D.



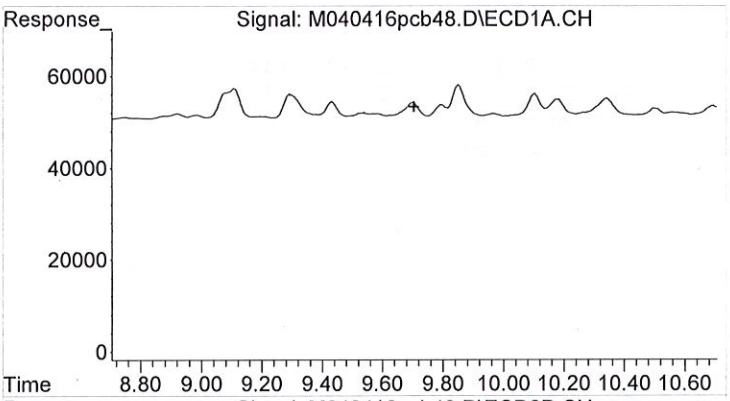
#3 1242-2

R.T.: 0.000 min
Exp R.T. : 9.107 min
Response: 0
Conc: N.D.



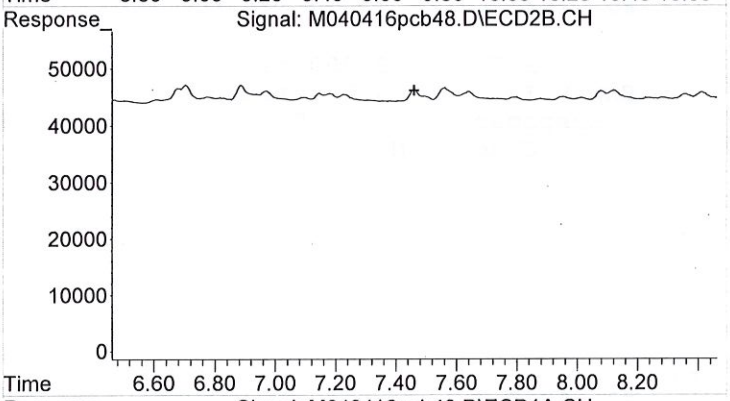
#3 1242-2

R.T.: 0.000 min
Exp R.T. : 6.885 min
Response: 0
Conc: N.D.



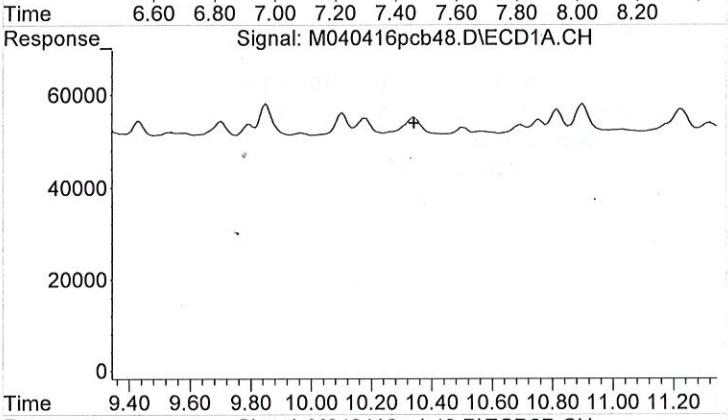
#4 1242-3

R.T.: 0.000 min
Exp R.T. : 9.705 min
Response: 0
Conc: N.D.



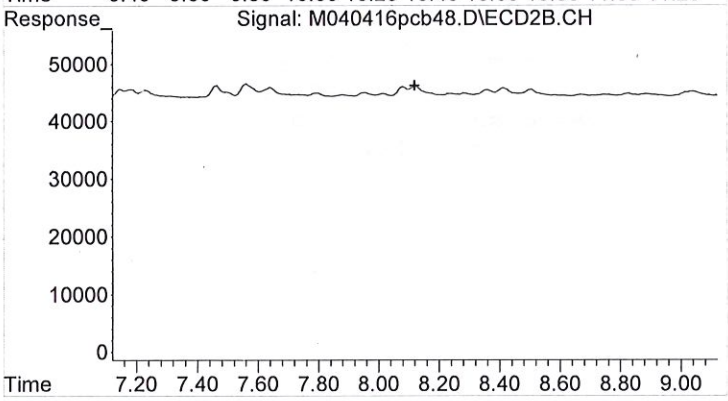
#4 1242-3

R.T.: 0.000 min
Exp R.T. : 7.462 min
Response: 0
Conc: N.D.



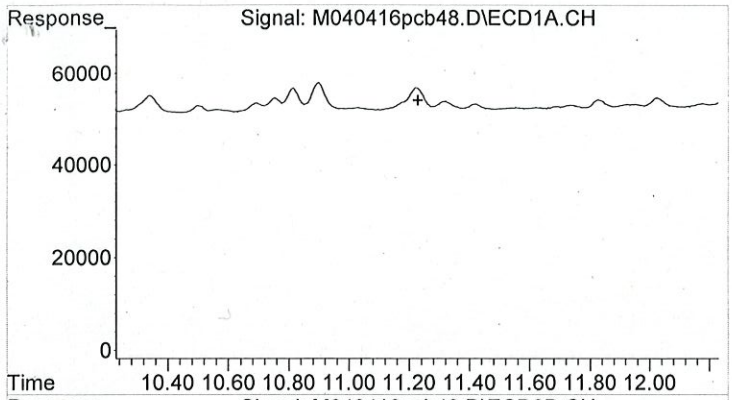
#5 1242-4

R.T.: 0.000 min
Exp R.T. : 10.343 min
Response: 0
Conc: N.D.



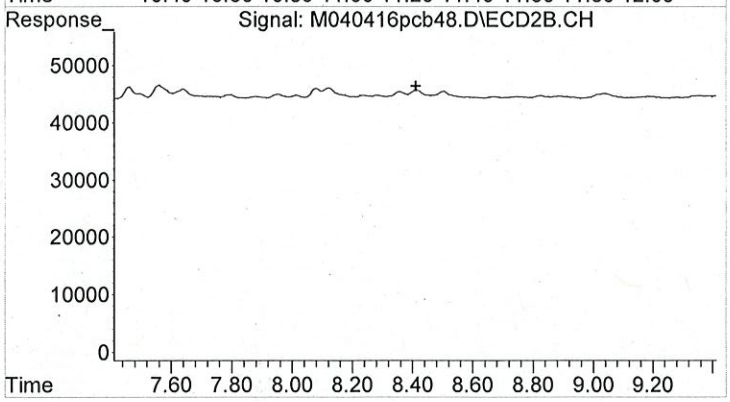
#5 1242-4

R.T.: 0.000 min
Exp R.T. : 8.120 min
Response: 0
Conc: N.D.



#6 1242-5

R.T.: 0.000 min
Exp R.T. : 11.229 min
Response: 0
Conc: N.D.



#6 1242-5

R.T.: 0.000 min
Exp R.T. : 8.412 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb56.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 12:29 pm
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:43:42 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 1242 -1	0.000	0.000	0	0	N.D. d	N.D. d
3)	L1 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
4)	L1 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
5)	L1 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
6)	L1 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242 -1			0	0	N.D.	N.D.
	Average 1242 -1					0.000	0.000

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

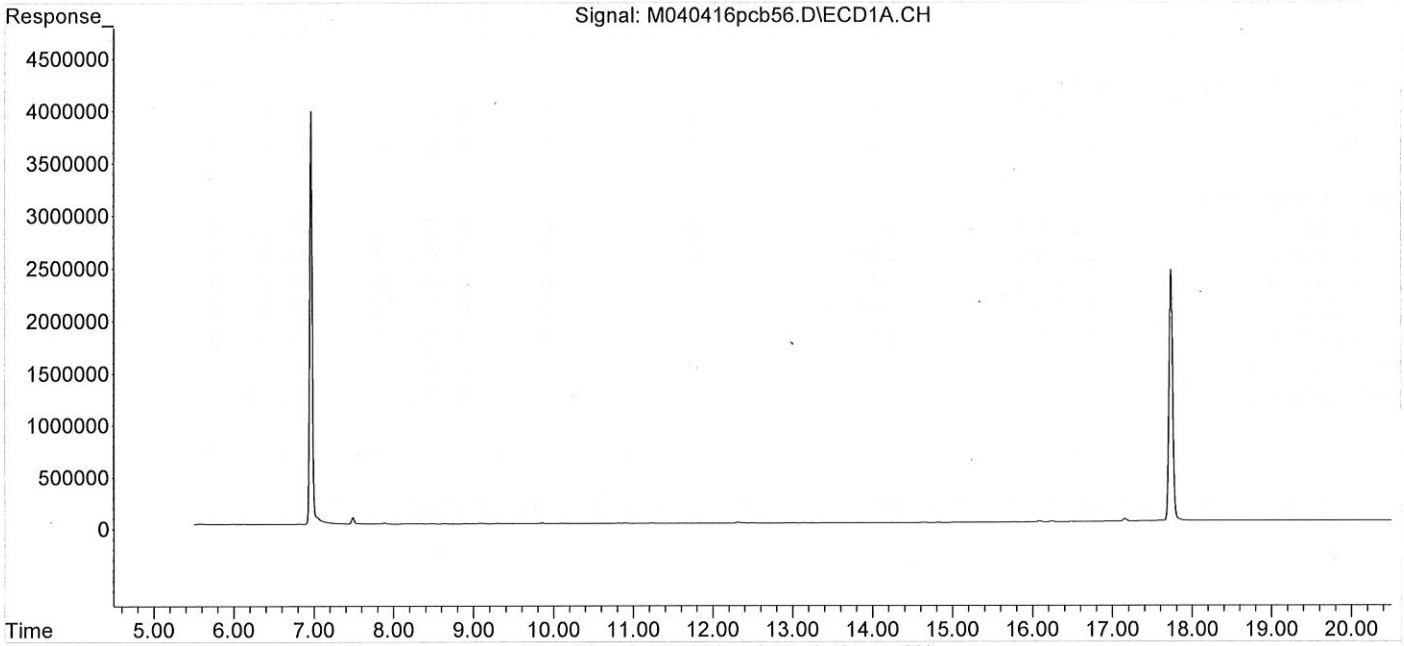
hw
4/12/16

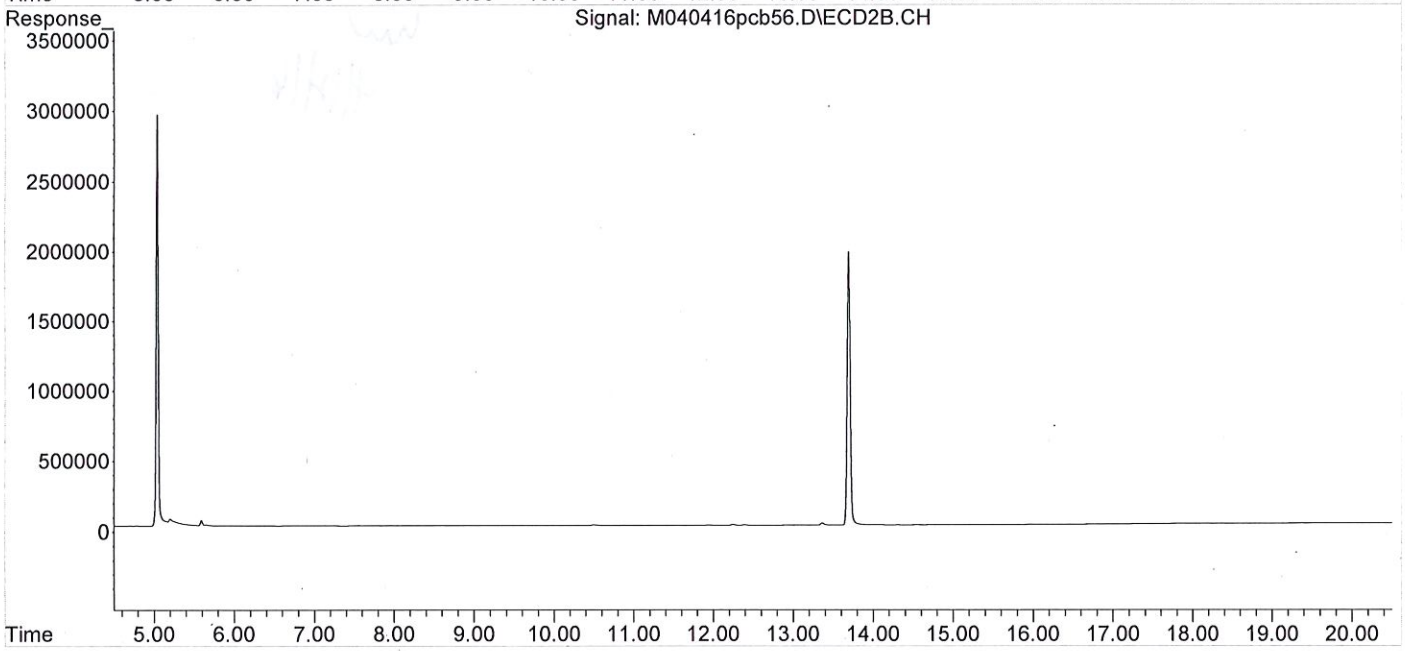
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb56.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 12:29 pm
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:43:42 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb56.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 12:29 pm
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:00:01 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 m	0	N.D.	N.D.
7) S2 dcb	11.316	0.000	~~1462~~	0	NoCal	N.D.
Target Compounds						
2) L1 1242 -1	8.634	6.703	2767 m	2691 m	3258.366	0.339 #
3) L1 1242-2	9.104	6.883	4855	1822	3334.375	N.D. #
4) L1 1242-3	9.700	7.460	2602	1746	3322.057	N.D. #
5) L1 1242-4	10.339	8.118	2686	1718	3477.529	1.277 #
6) L1 1242-5	11.223	8.410	3325	1374	0.570	0.582
Sum 1242 -1			16234	5783	13392.897	BelowCal
Average 1242 -1					2678.579	-0.538

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

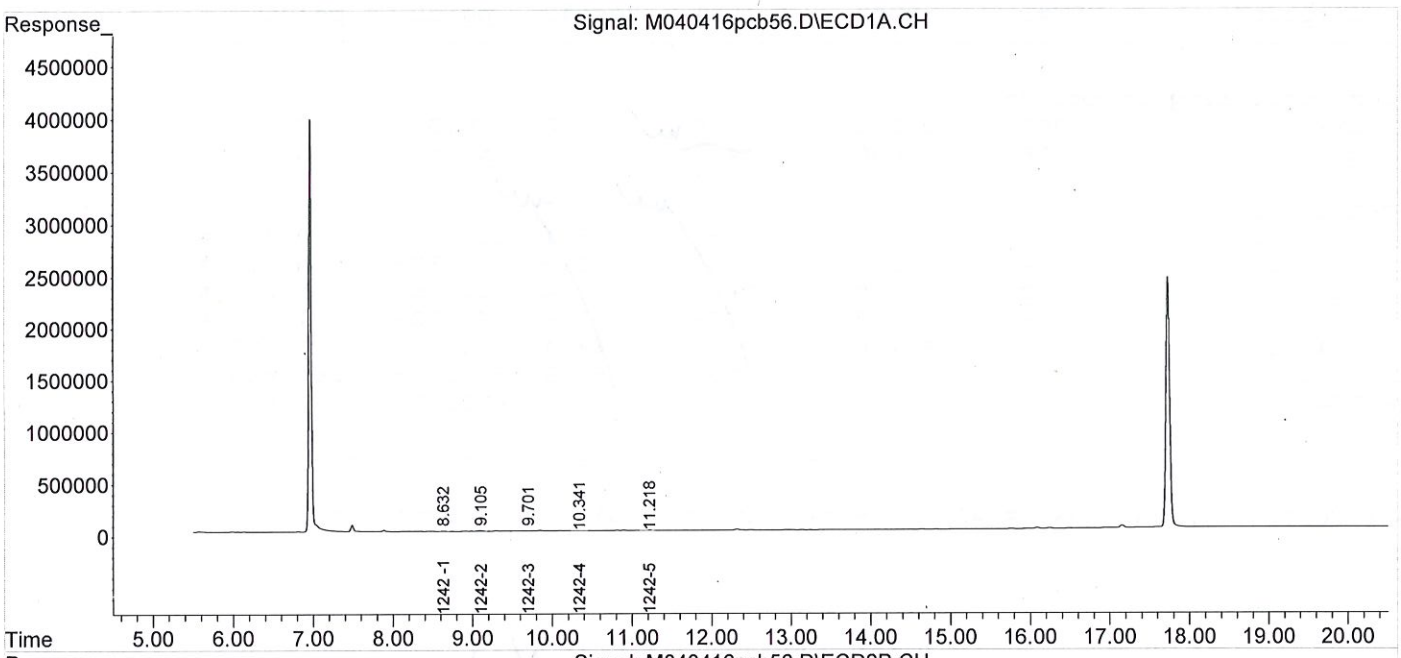
mw 4/11/16

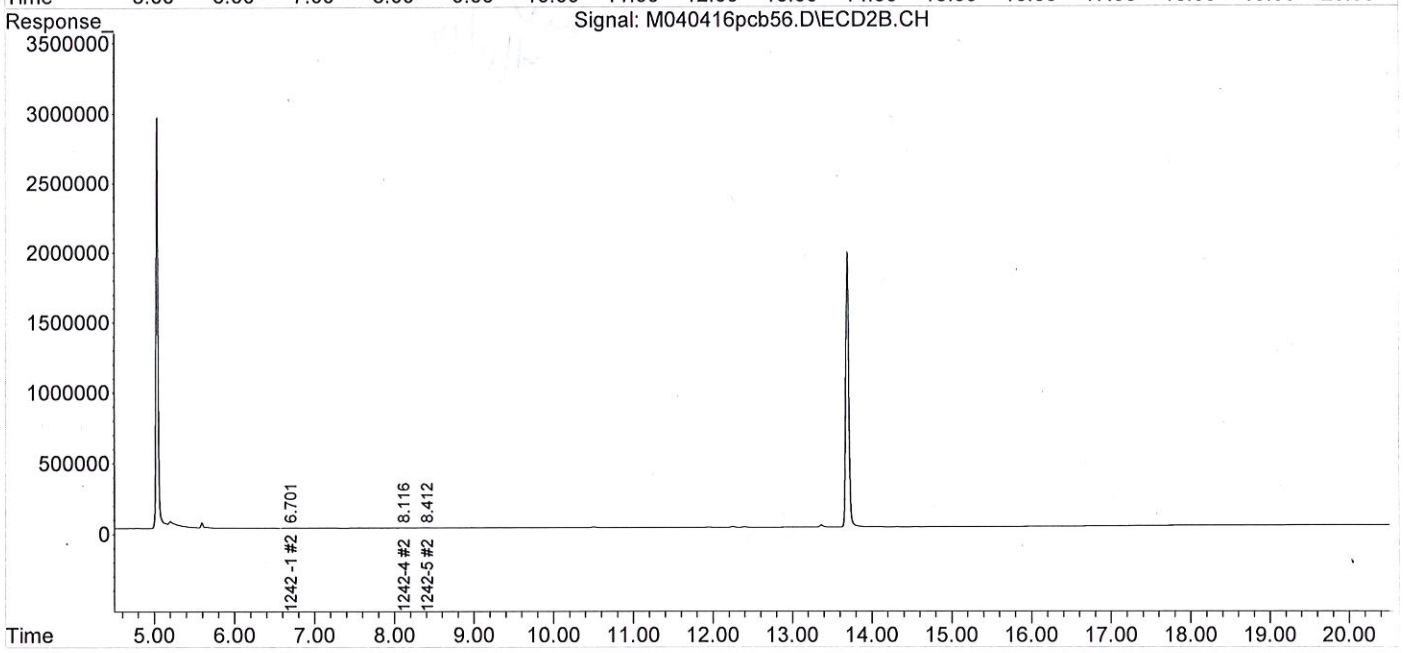
Quantitation Report (Not Reviewed)

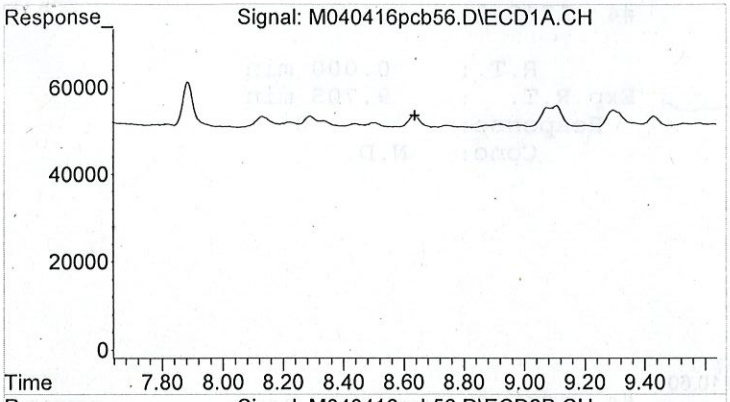
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb56.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 12:29 pm
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 2 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:00:01 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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

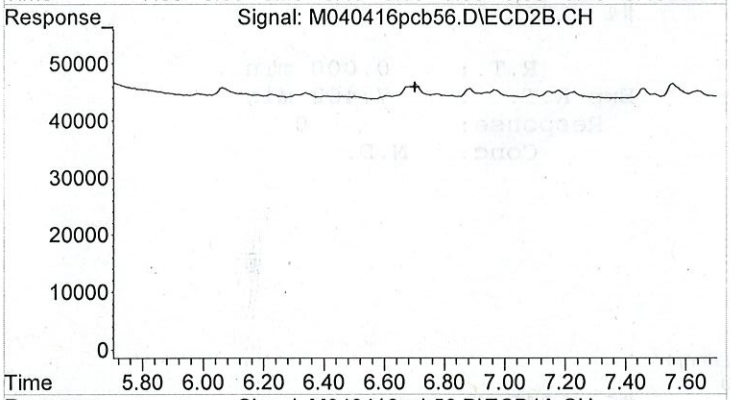






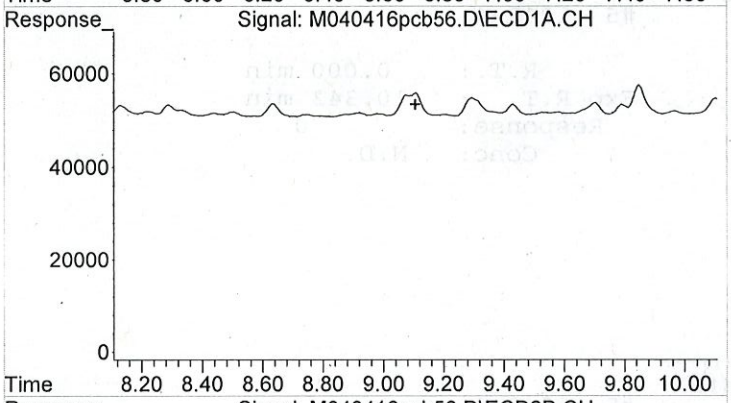
#2 1242 -1

R.T.: 0.000 min
Exp R.T. : 8.637 min
Response: 0
Conc: N.D.



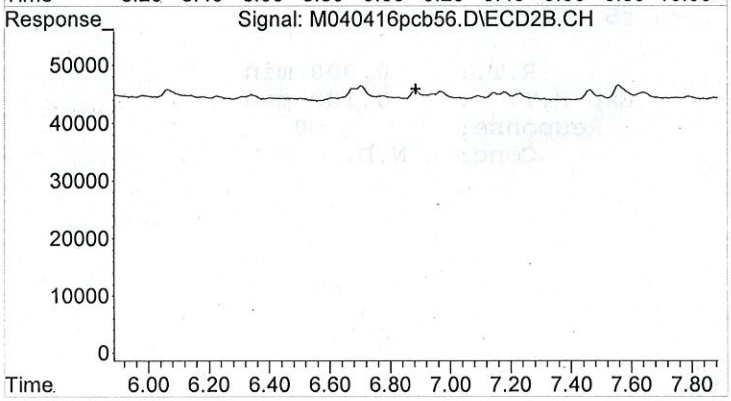
#2 1242 -1

R.T.: 0.000 min
Exp R.T. : 6.703 min
Response: 0
Conc: N.D.



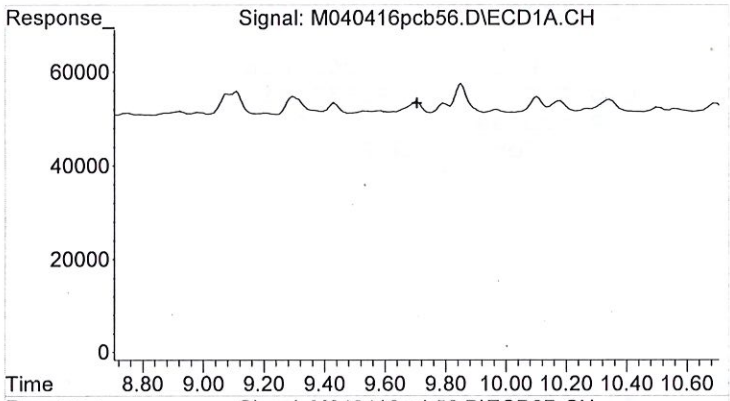
#3 1242-2

R.T.: 0.000 min
Exp R.T. : 9.107 min
Response: 0
Conc: N.D.



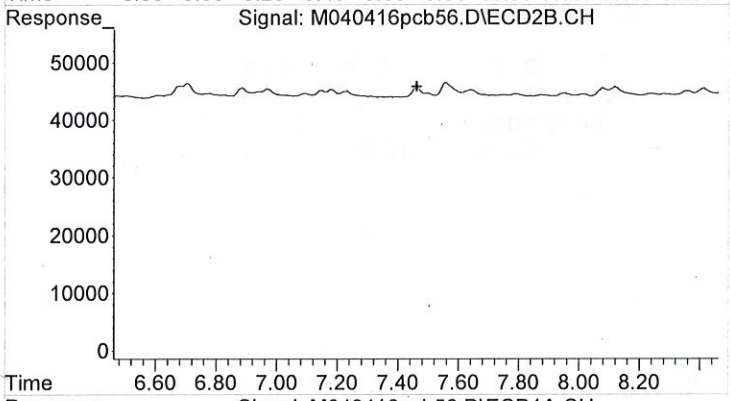
#3 1242-2

R.T.: 0.000 min
Exp R.T. : 6.885 min
Response: 0
Conc: N.D.



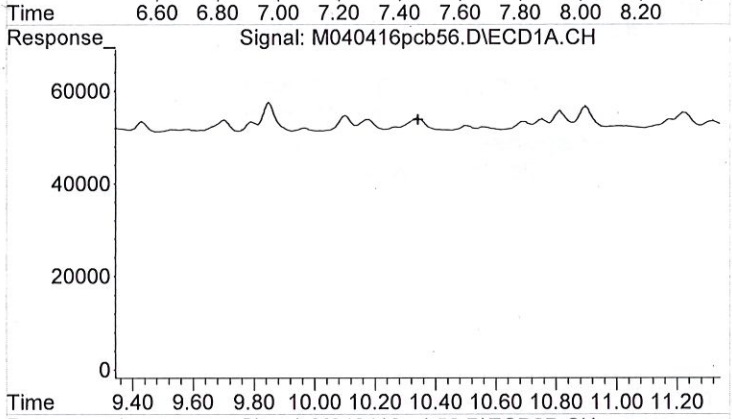
#4 1242-3

R.T.: 0.000 min
Exp R.T. : 9.705 min
Response: 0
Conc: N.D.



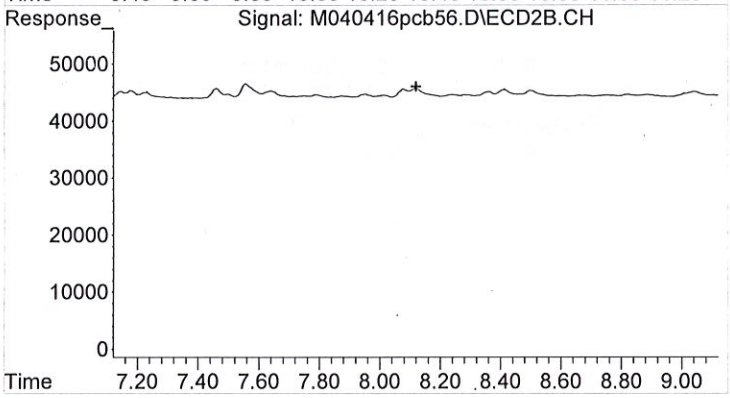
#4 1242-3

R.T.: 0.000 min
Exp R.T. : 7.462 min
Response: 0
Conc: N.D.



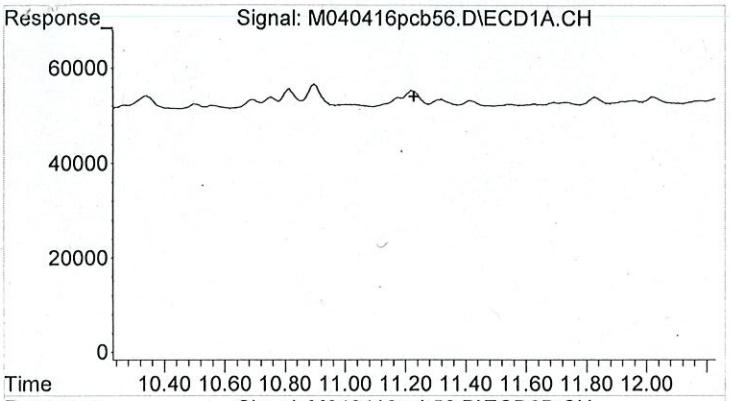
#5 1242-4

R.T.: 0.000 min
Exp R.T. : 10.343 min
Response: 0
Conc: N.D.



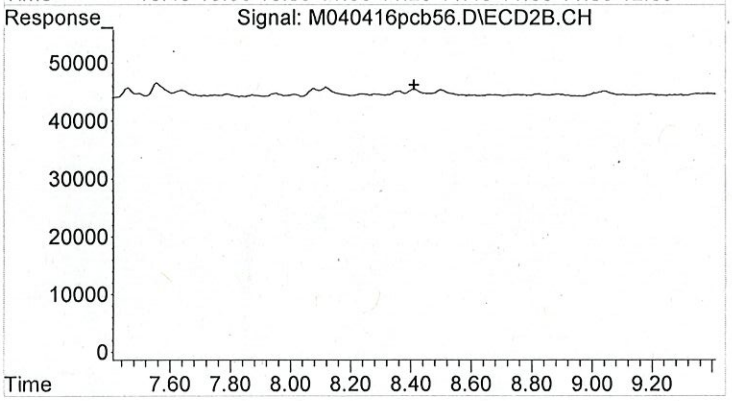
#5 1242-4

R.T.: 0.000 min
Exp R.T. : 8.120 min
Response: 0
Conc: N.D.



#6 1242-5

R.T.: 0.000 min
Exp R.T. : 11.229 min
Response: 0
Conc: N.D.



#6 1242-5

R.T.: 0.000 min
Exp R.T. : 8.412 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 9:36 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 77 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:05:46 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.964	5.037	3195985	3069854	93.041	114.204
12) S2 dcb	17.734	13.697	1808740	2025928	86.895m	127.973 #
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
8) L2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

LW 4/14/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 9:36 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 77 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:03:12 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.964	5.037	3195985	3069854	93.041	114.204
12) S2 dcb	17.734	13.697	1904354	2025928	91.531	127.973 #
Target Compounds						
2) L1 1016 -1	8.285	5.593	616	40196	N.D.	79.667 #
3) L1 1016-2	8.632	6.093	342	923	N.D.	N.D.
4) L1 1016-3	9.320	0.000	2187	0	N.D.	N.D.
5) L1 1016-4	9.446	6.874	452	578	N.D.	N.D.
6) L1 1016-5	10.080	0.000	278	0	N.D.	N.D.
Sum 1016 -1			0	40196	N.D.	68.083
Average 1016 -1					0.000	68.083
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	9.701	0	1648	N.D.	N.D.
9) L2 1260-3	0.000	10.237	0	210	N.D.	N.D.
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	0.000	11.770	0	181	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

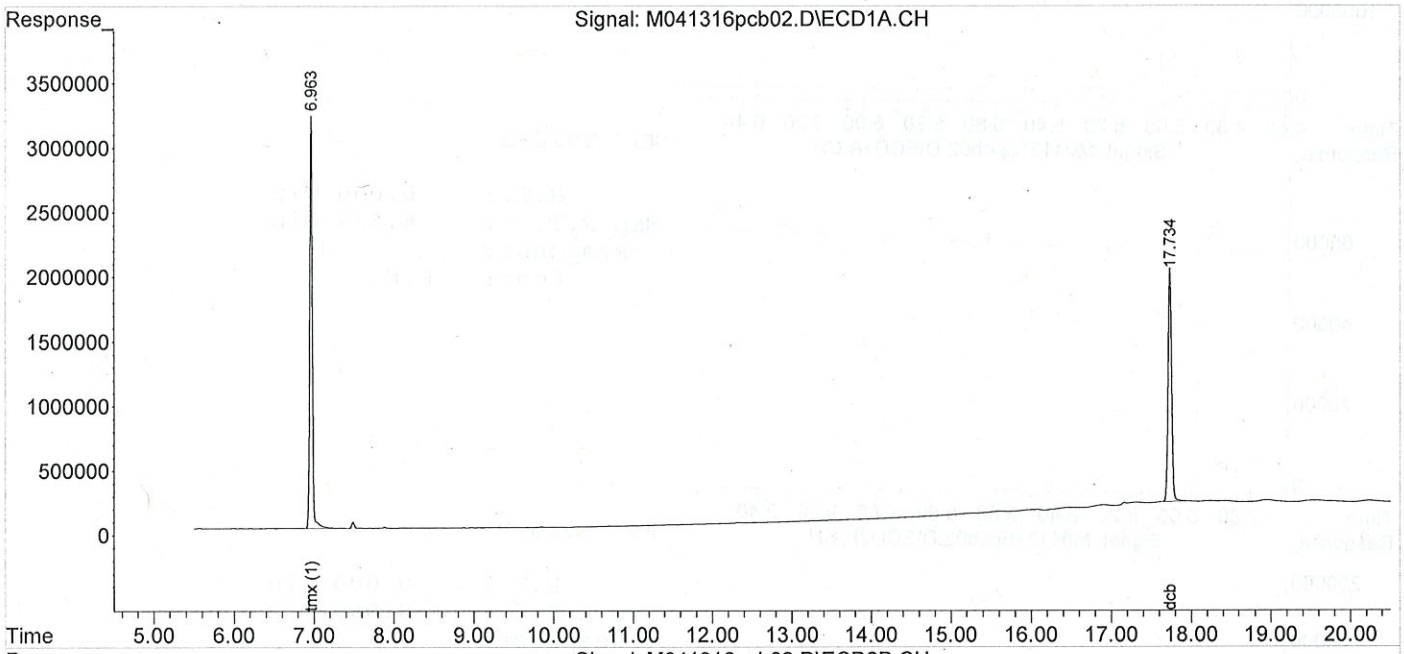
4/14/16

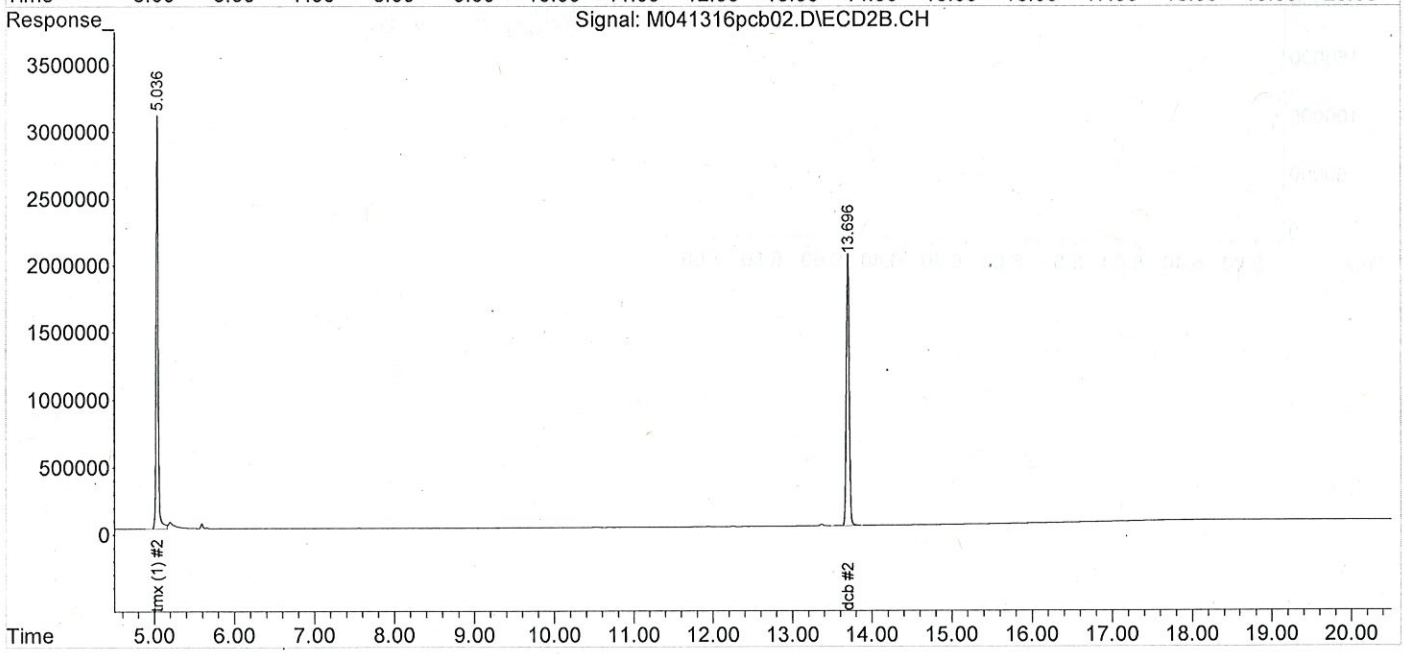
Quantitation Report (QT Reviewed)

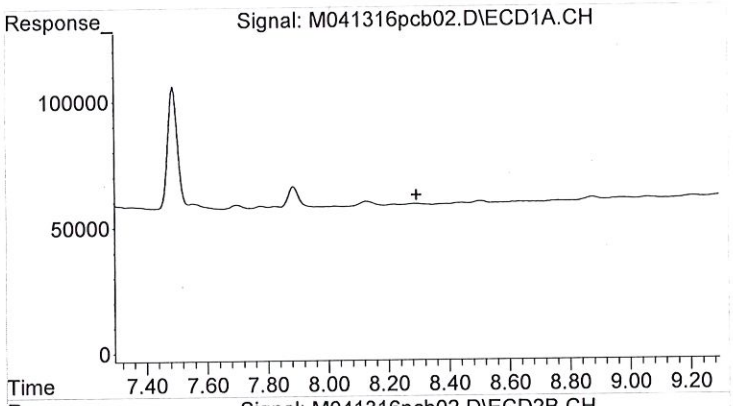
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 9:36 am
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 77 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:05:46 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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

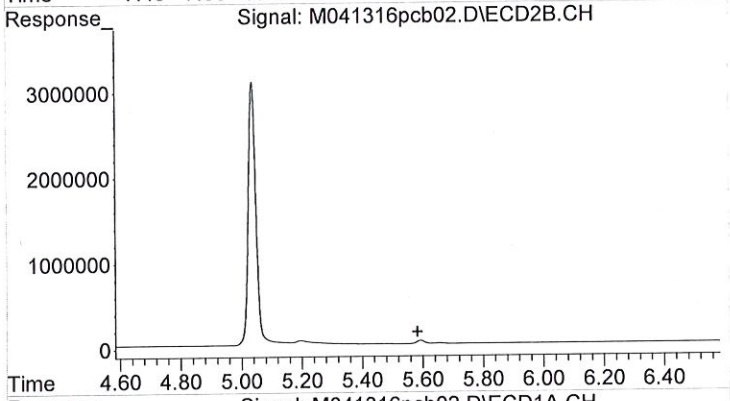






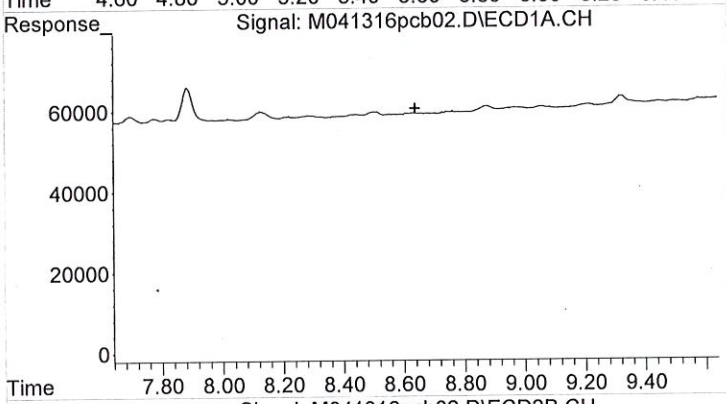
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 8.293 min
Response: 0
Conc: N.D.



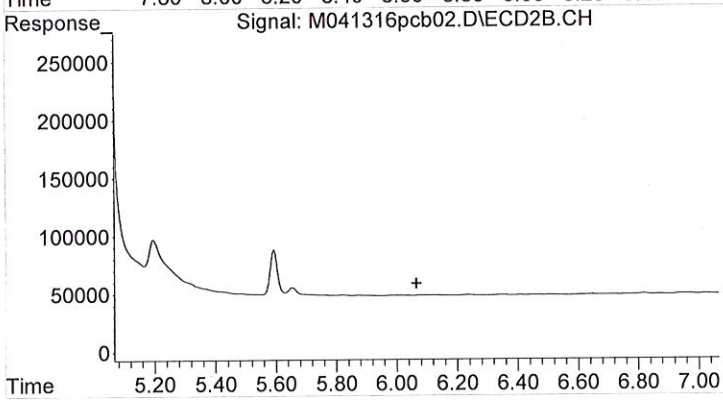
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.583 min
Response: 0
Conc: N.D.



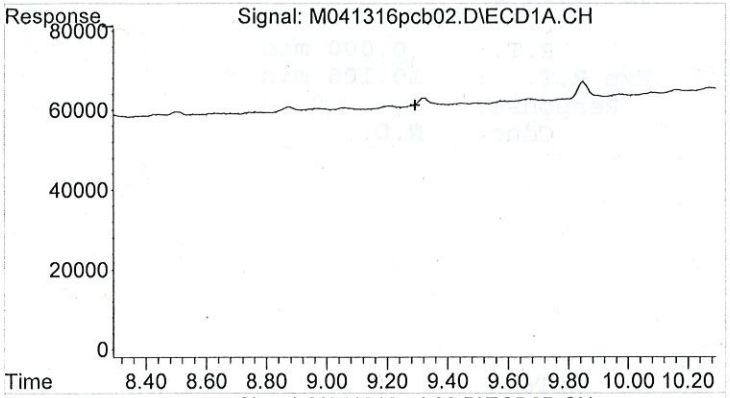
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.639 min
Response: 0
Conc: N.D.



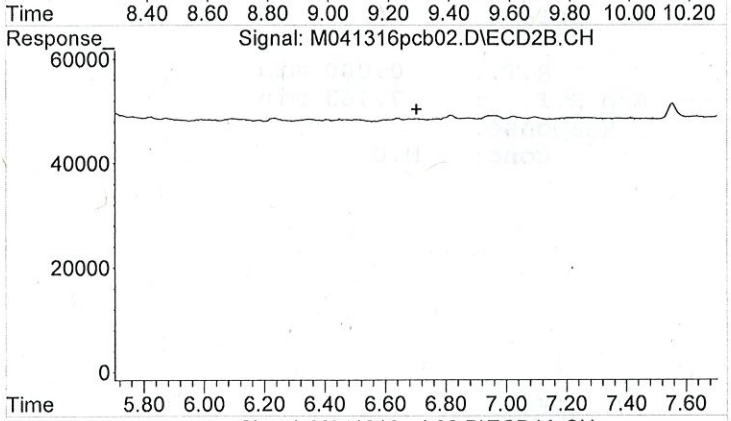
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 6.066 min
Response: 0
Conc: N.D.



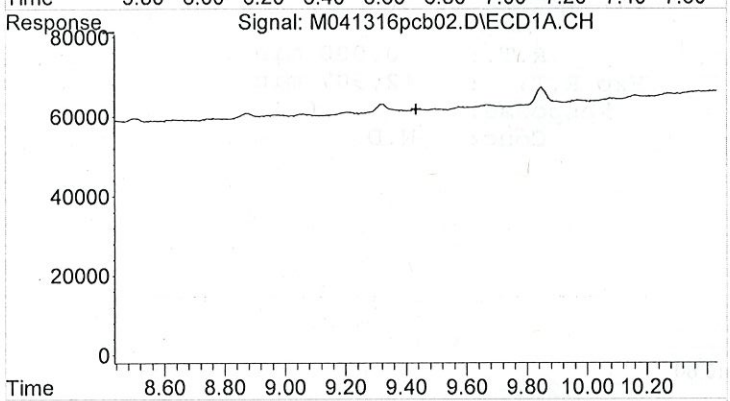
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.292 min
Response: 0
Conc: N.D.



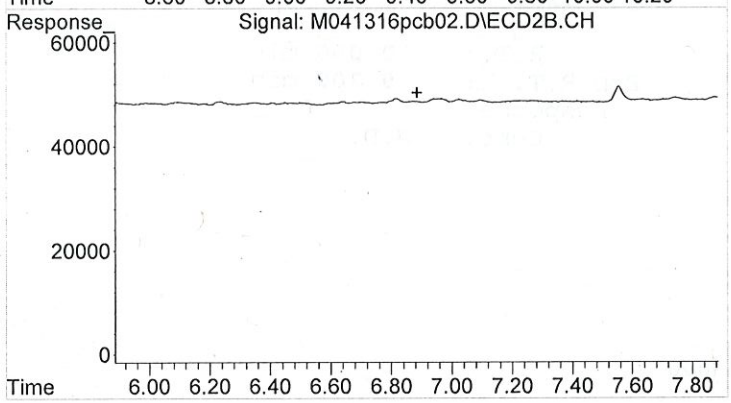
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.704 min
Response: 0
Conc: N.D.



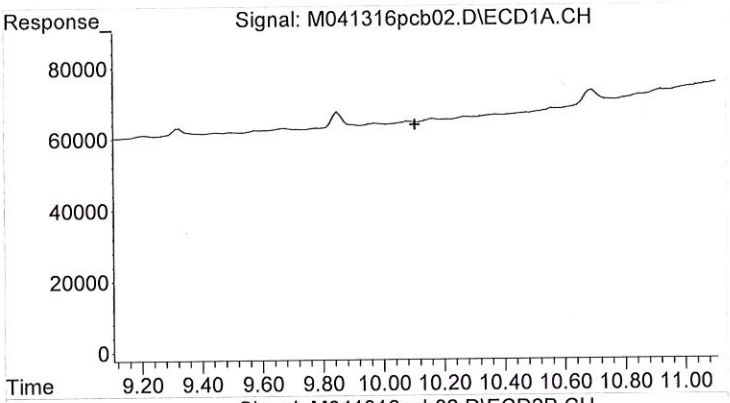
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.434 min
Response: 0
Conc: N.D.



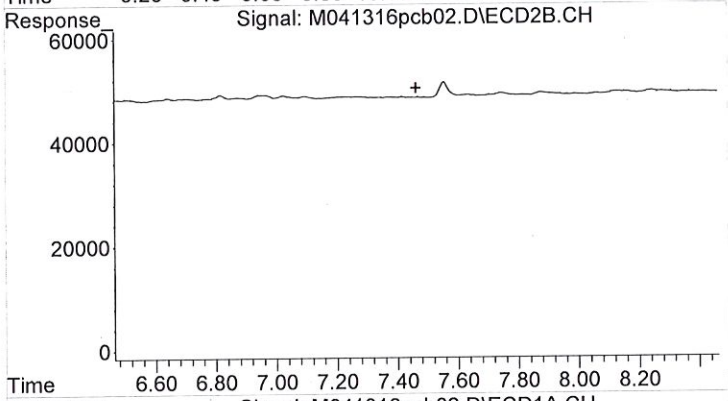
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.886 min
Response: 0
Conc: N.D.



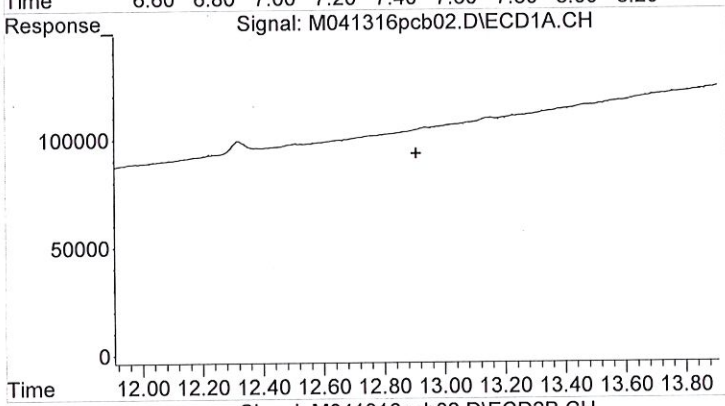
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 10.106 min
Response: 0
Conc: N.D.



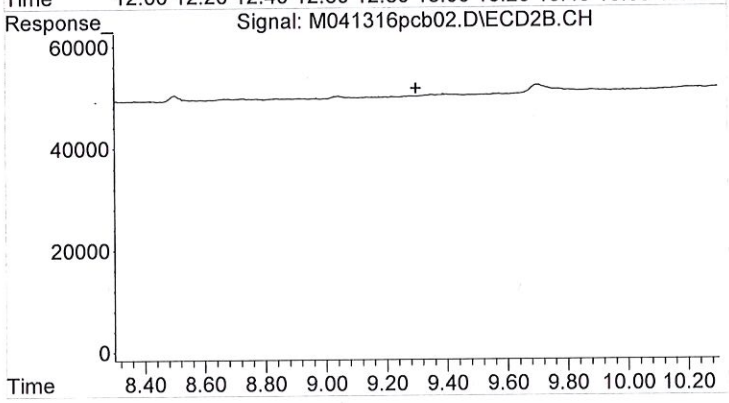
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 7.463 min
Response: 0
Conc: N.D.



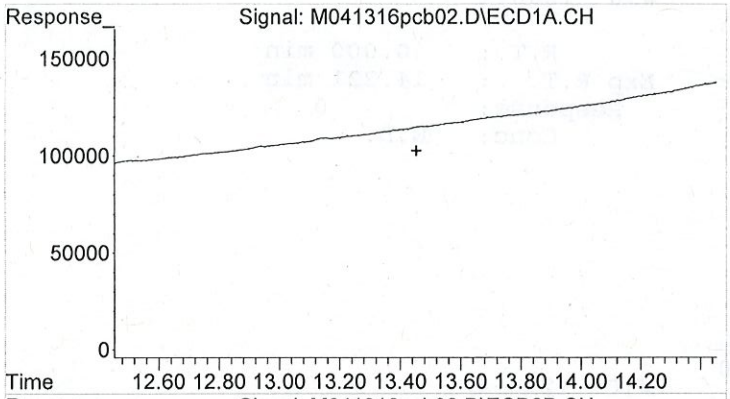
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.907 min
Response: 0
Conc: N.D.



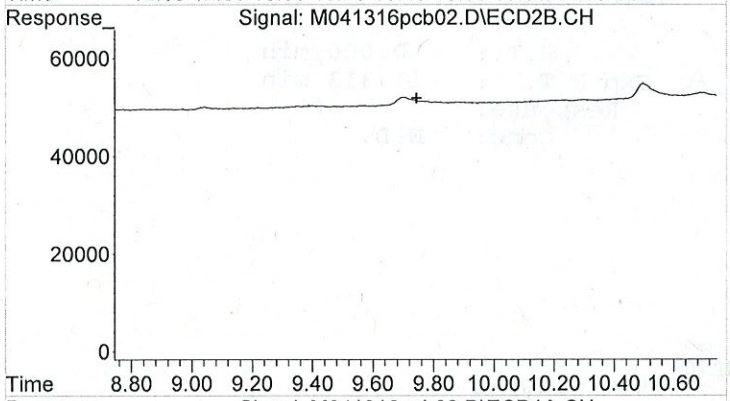
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 9.300 min
Response: 0
Conc: N.D.



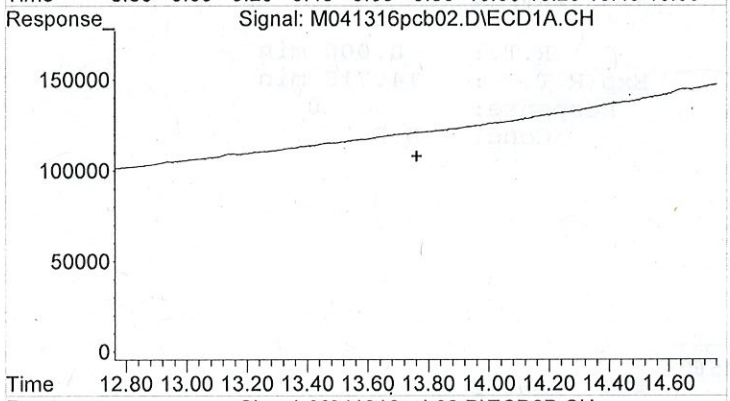
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.454 min
Response: 0
Conc: N.D.



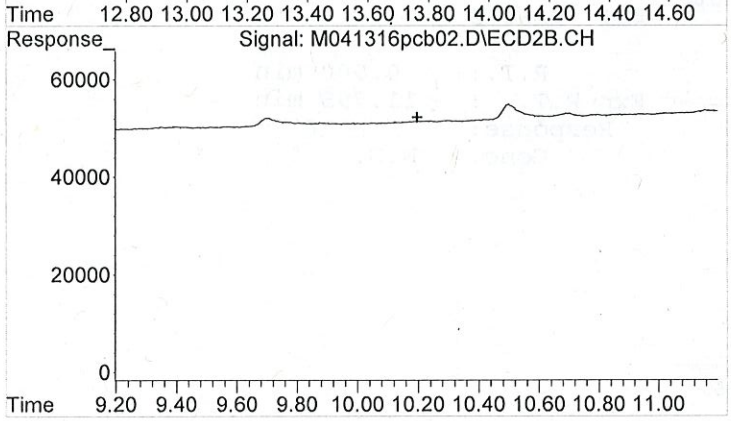
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.745 min
Response: 0
Conc: N.D.



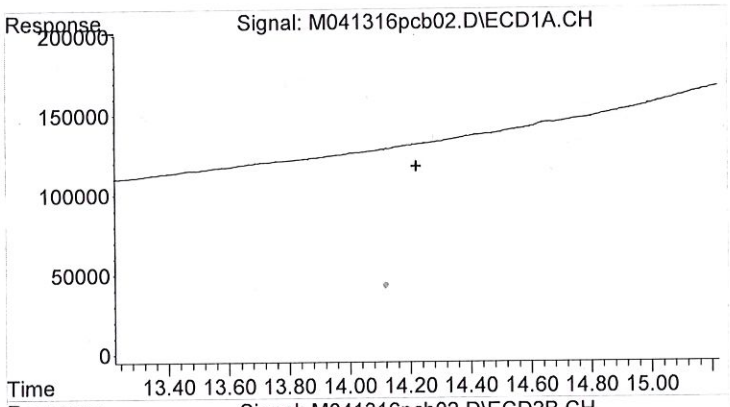
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.762 min
Response: 0
Conc: N.D.



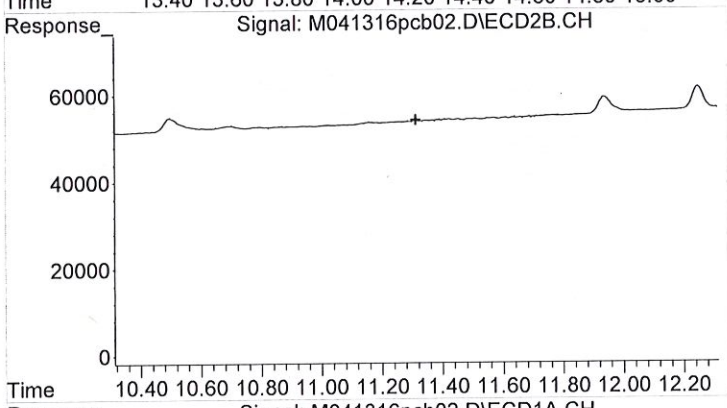
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 10.197 min
Response: 0
Conc: N.D.



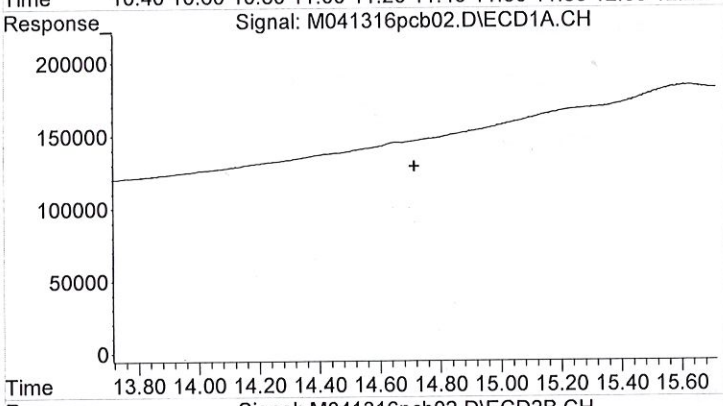
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 14.221 min
Response: 0
Conc: N.D.



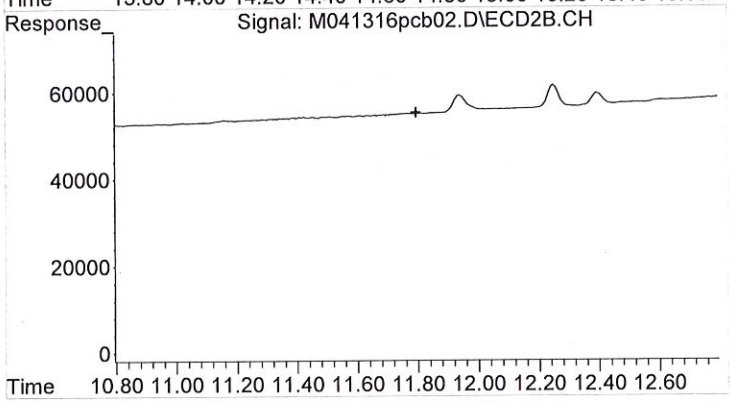
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 11.313 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 14.715 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 11.795 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 15:03 pm
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 77 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:14:14 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.963	5.037	3162697	3065109	92.063	114.027
12)	S2 dcb	17.734	13.697	1779403	2091649	85.473	132.144 #
	Target Compounds						
2)	L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3)	L1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
4)	L1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
5)	L1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
6)	L1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016 -1			0	0	N.D.	N.D.
	Average 1016 -1					0.000	0.000
7)	L2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
8)	L2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
9)	L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10)	L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11)	L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

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

4/18/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 15:03 pm
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 77 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:04:42 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.963	5.037	3162697	3065109	92.063	114.027
12) S2 dcb	17.734	13.697	1779403	2091649	85.473	132.144 #
Target Compounds						
2) L1 1016 -1	8.288	5.593	566	40616	N.D.	80.595 #
3) L1 1016-2	8.626	6.094	336	1157	N.D.	N.D.
4) L1 1016-3	9.317	6.704	2288	524	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	10.074	0.000	478	0	N.D.	N.D.
Sum 1016 -1			0	40616	N.D.	71.359
Average 1016 -1					0.000	71.359
7) L2 1260-1	12.931	0.000	431	0	N.D.	N.D.
8) L2 1260-2	13.460	9.713	283	799	N.D.	N.D.
9) L2 1260-3	13.715	0.000	273	0	N.D.	N.D.
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

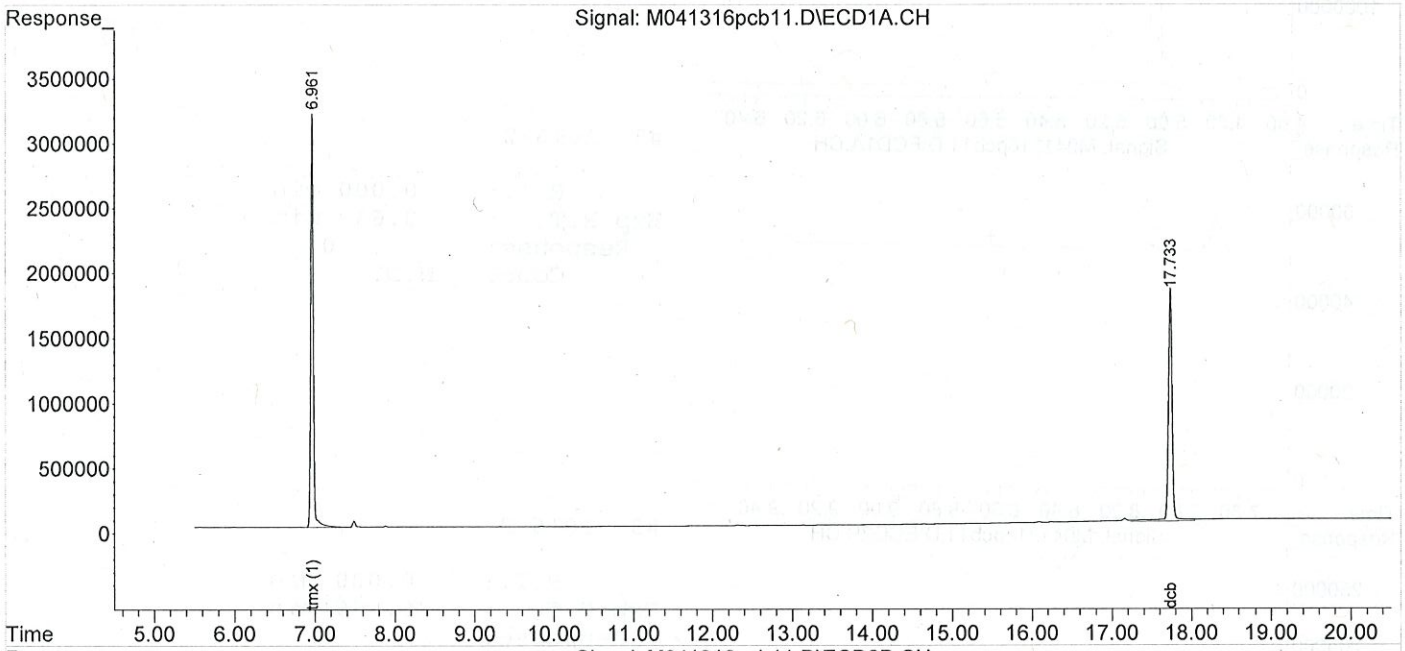
4/14/16

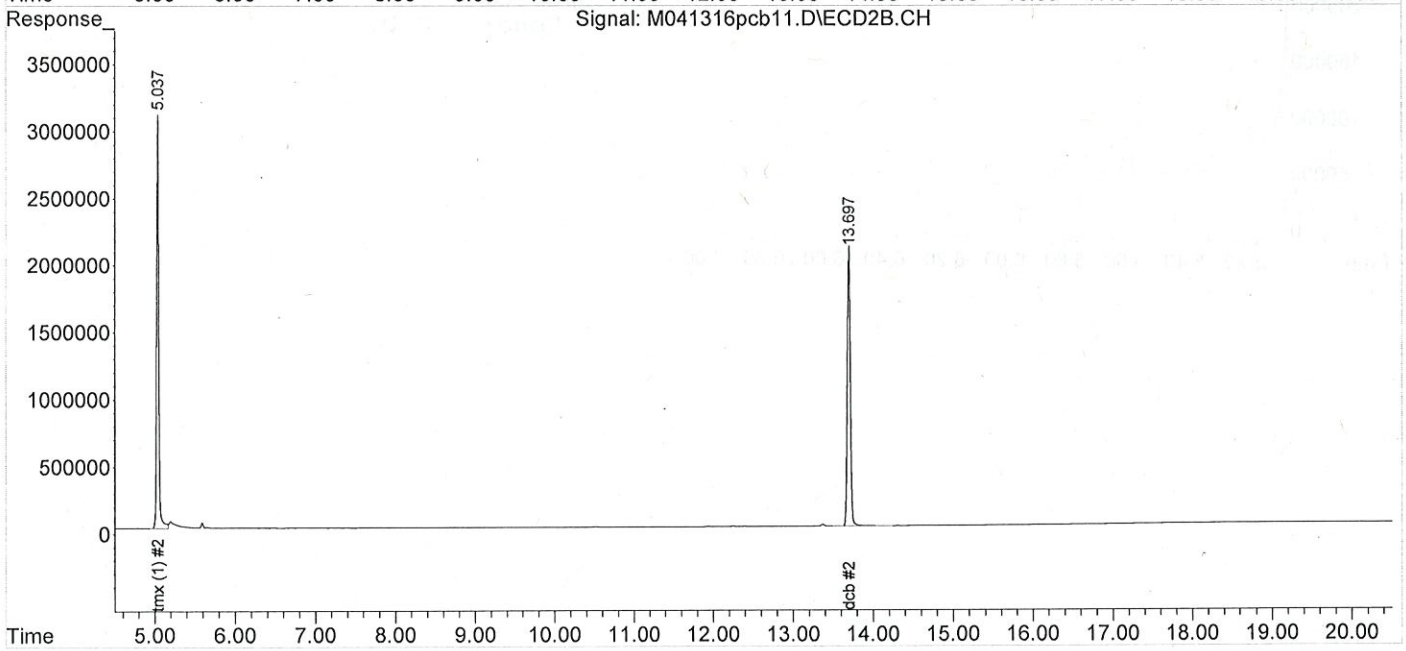
Quantitation Report (QT Reviewed)

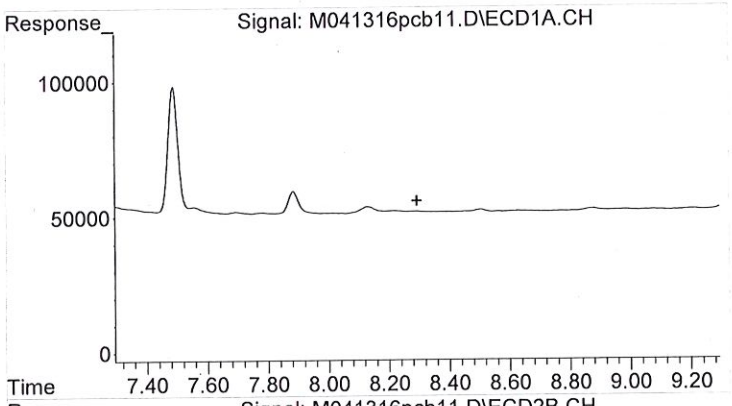
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 15:03 pm
Operator : DWOOD
Sample : 87PCB011916J
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 77 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:14:14 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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

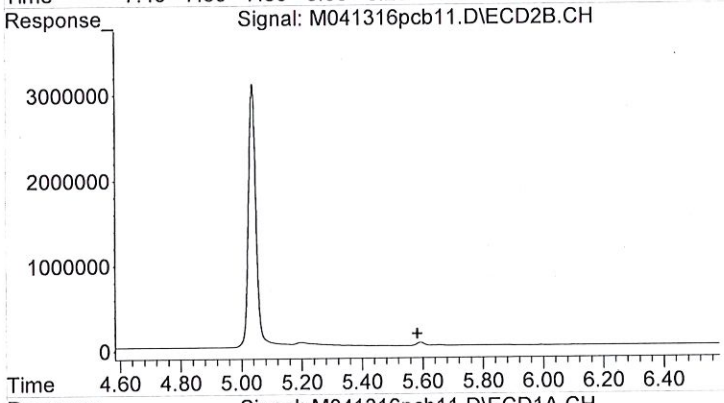






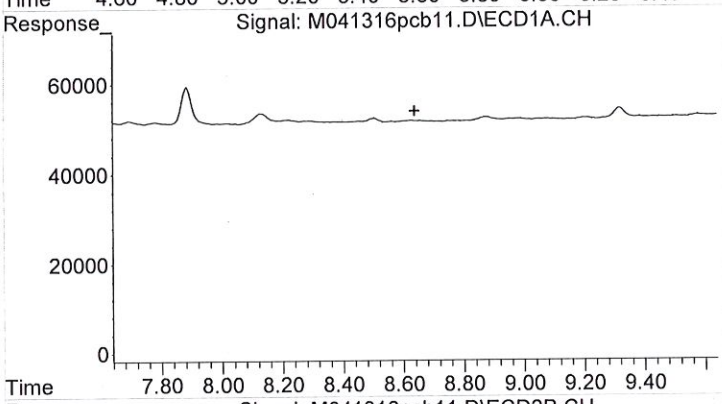
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 8.293 min
Response: 0
Conc: N.D.



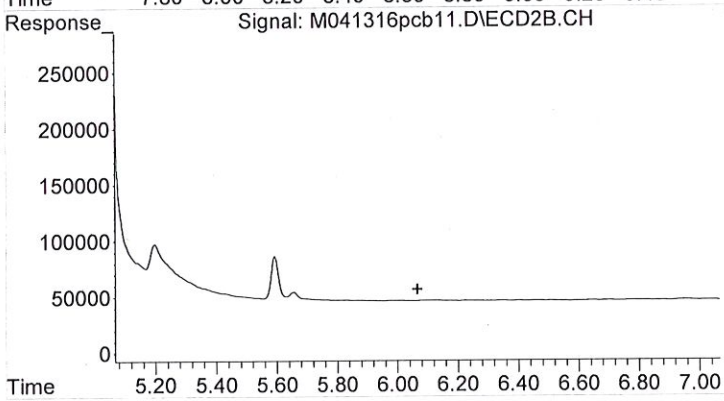
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.583 min
Response: 0
Conc: N.D.



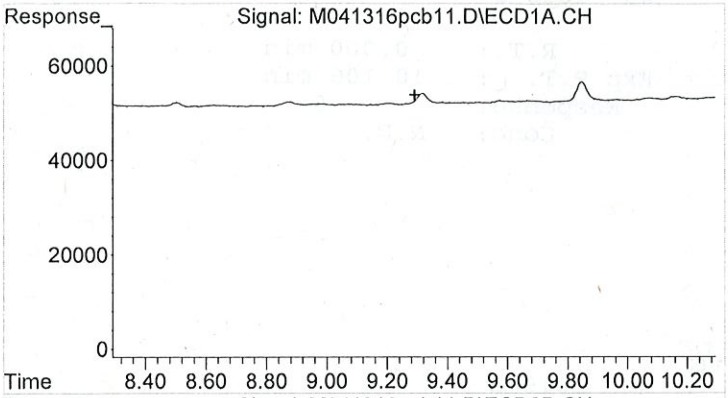
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.639 min
Response: 0
Conc: N.D.



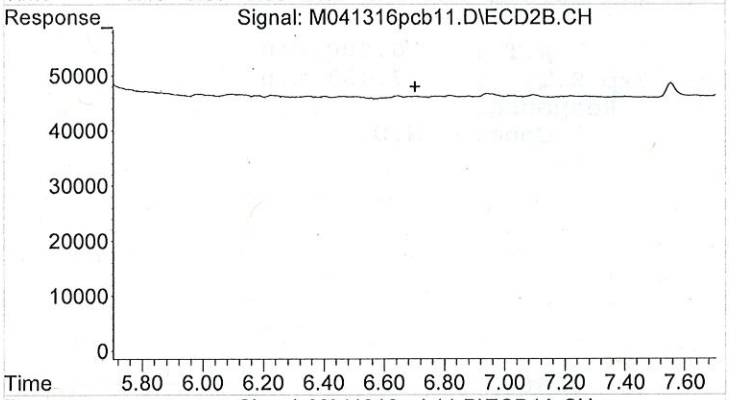
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 6.066 min
Response: 0
Conc: N.D.



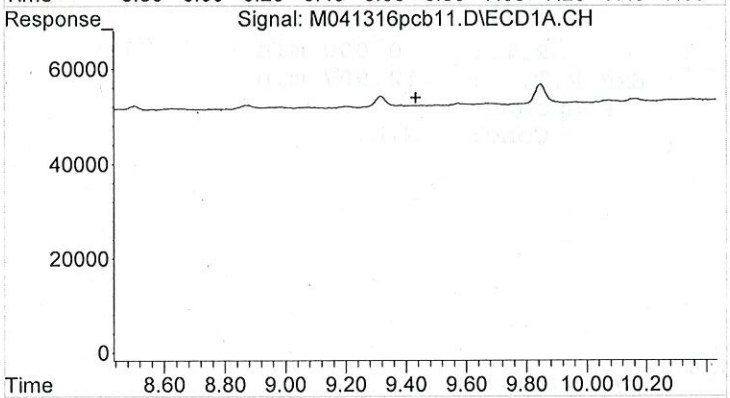
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.292 min
Response: 0
Conc: N.D.



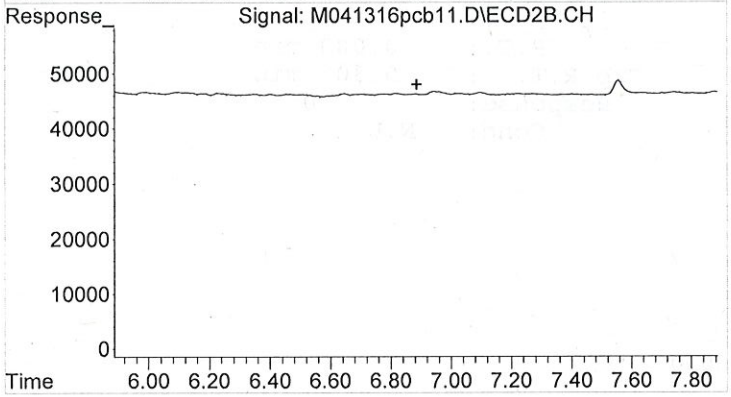
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.704 min
Response: 0
Conc: N.D.



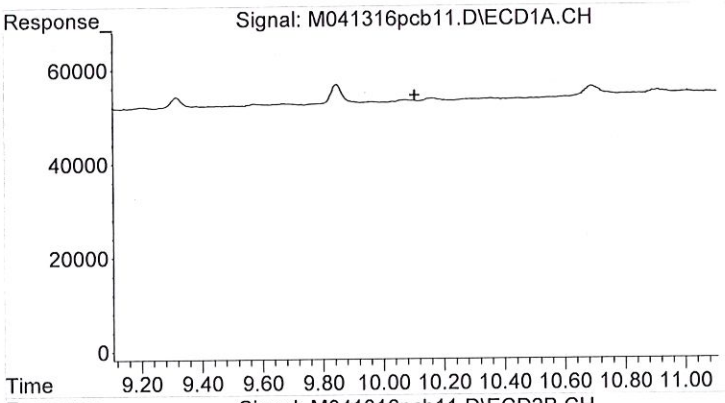
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.434 min
Response: 0
Conc: N.D.



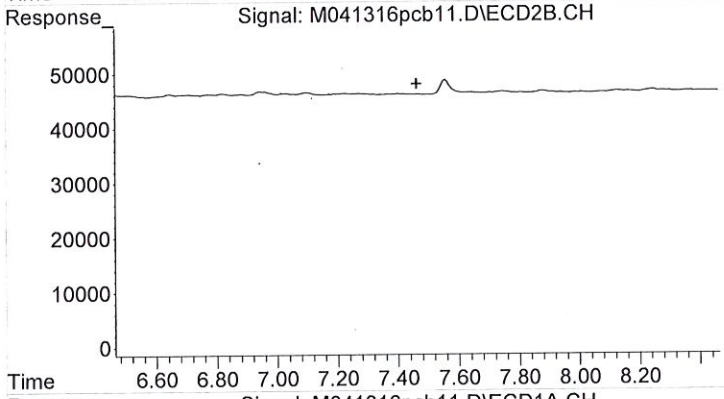
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.886 min
Response: 0
Conc: N.D.



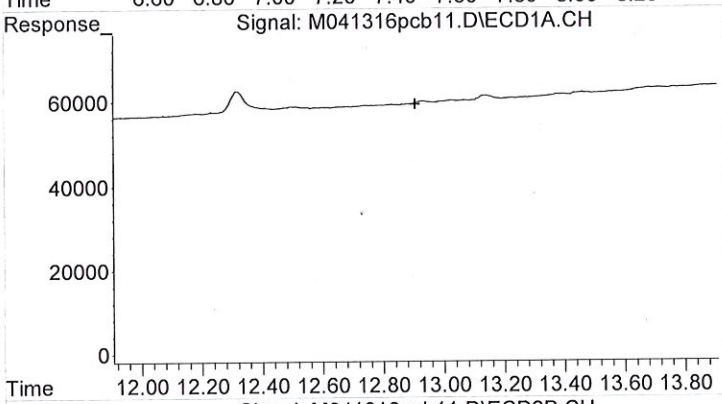
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 10.106 min
Response: 0
Conc: N.D.



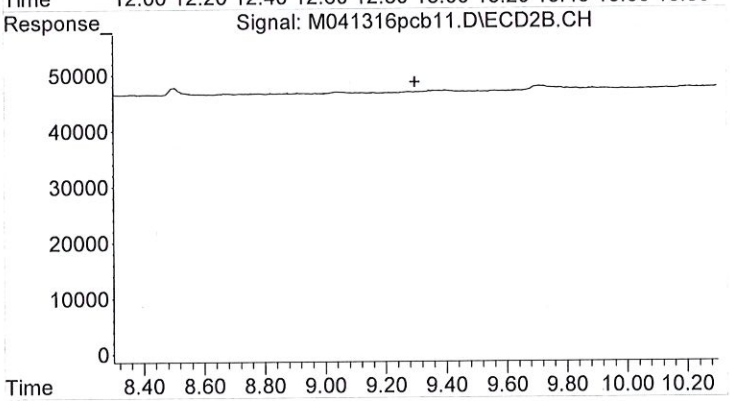
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 7.463 min
Response: 0
Conc: N.D.



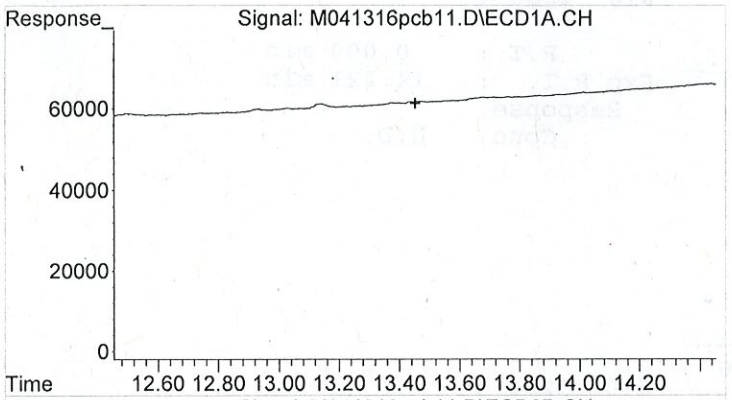
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.907 min
Response: 0
Conc: N.D.



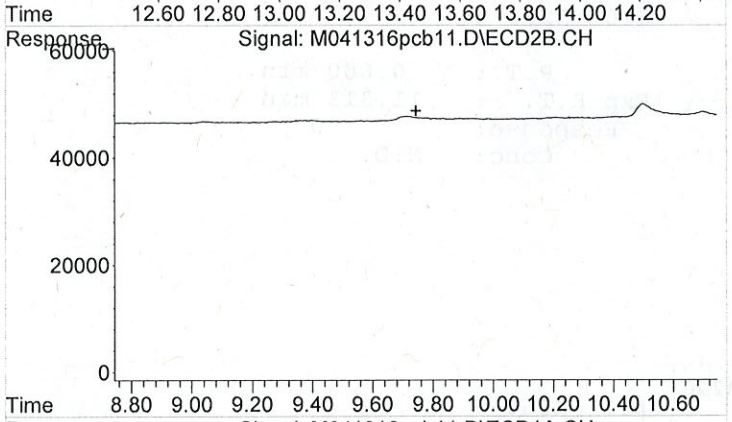
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 9.300 min
Response: 0
Conc: N.D.



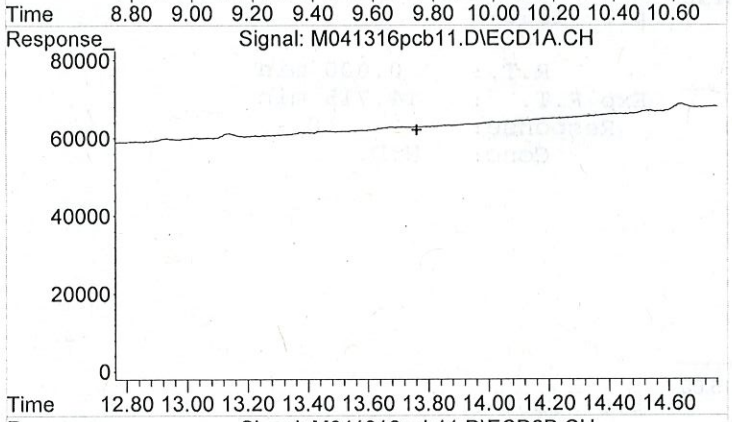
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.454 min
Response: 0
Conc: N.D.



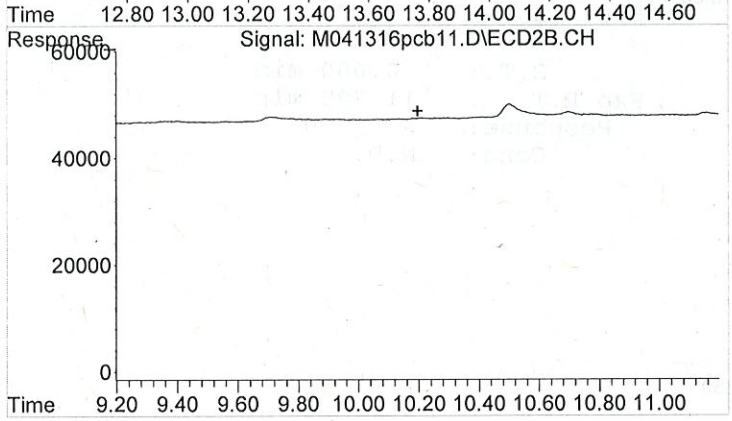
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.745 min
Response: 0
Conc: N.D.



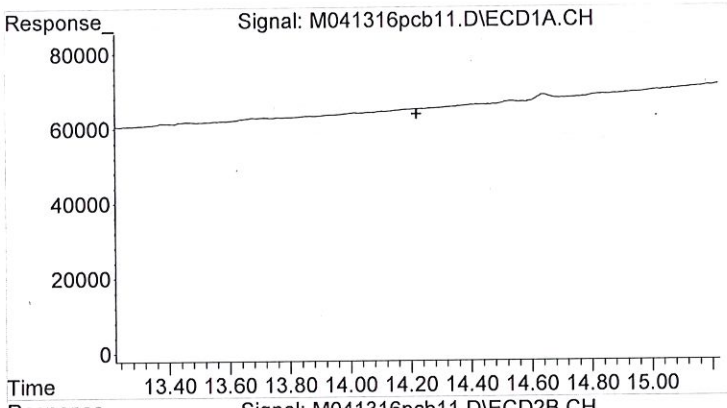
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.762 min
Response: 0
Conc: N.D.



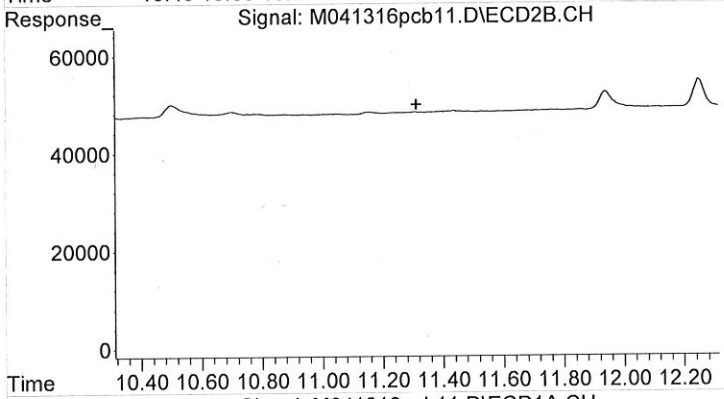
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 10.197 min
Response: 0
Conc: N.D.



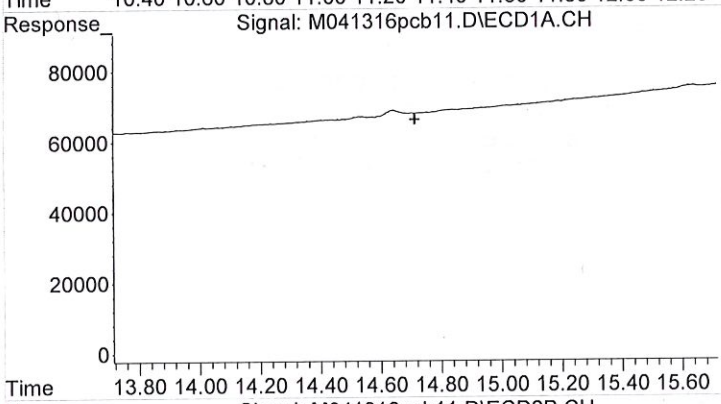
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 14.221 min
Response: 0
Conc: N.D.



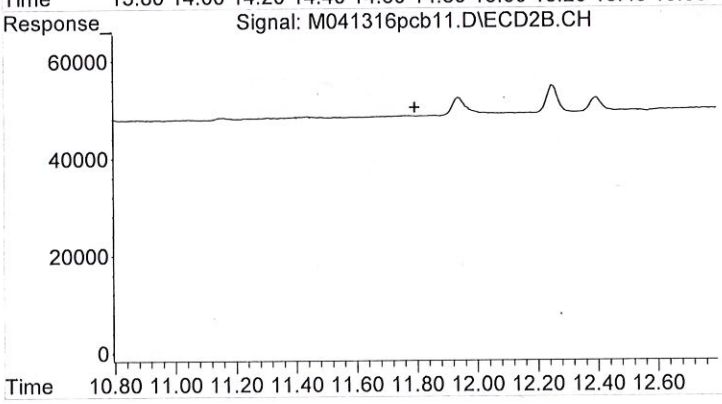
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 11.313 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 14.715 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 11.795 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:34 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 06 15:22:42 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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. d	N.D. d
12)	S2 dcb	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
2)	L1 1016 -1	0.000	0.000	0	0	N.D.	N.D. d
3)	L1 1016-2	0.000	0.000	0	0	N.D.	N.D. d
4)	L1 1016-3	0.000	0.000	0	0	N.D.	N.D. d
5)	L1 1016-4	0.000	0.000	0	0	N.D.	N.D. d
6)	L1 1016-5	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1016 -1			0	0	N.D.	N.D.
	Average 1016 -1					0.000	0.000
7)	L2 1260-1	0.000	0.000	0	0	N.D.	N.D. d
8)	L2 1260-2	0.000	0.000	0	0	N.D.	N.D. d
9)	L2 1260-3	0.000	0.000	0	0	N.D.	N.D. d
10)	L2 1260-4	0.000	0.000	0	0	N.D.	N.D. d
11)	L2 1260-5	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

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

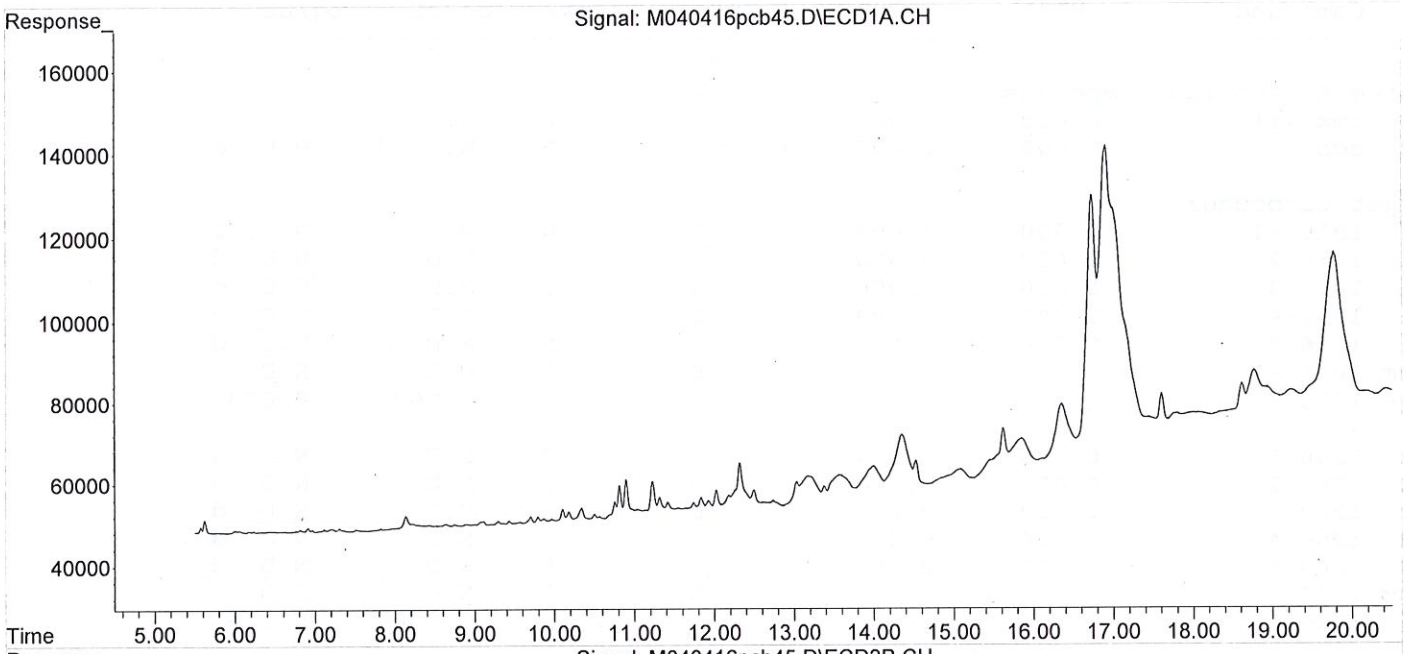
4/6/16

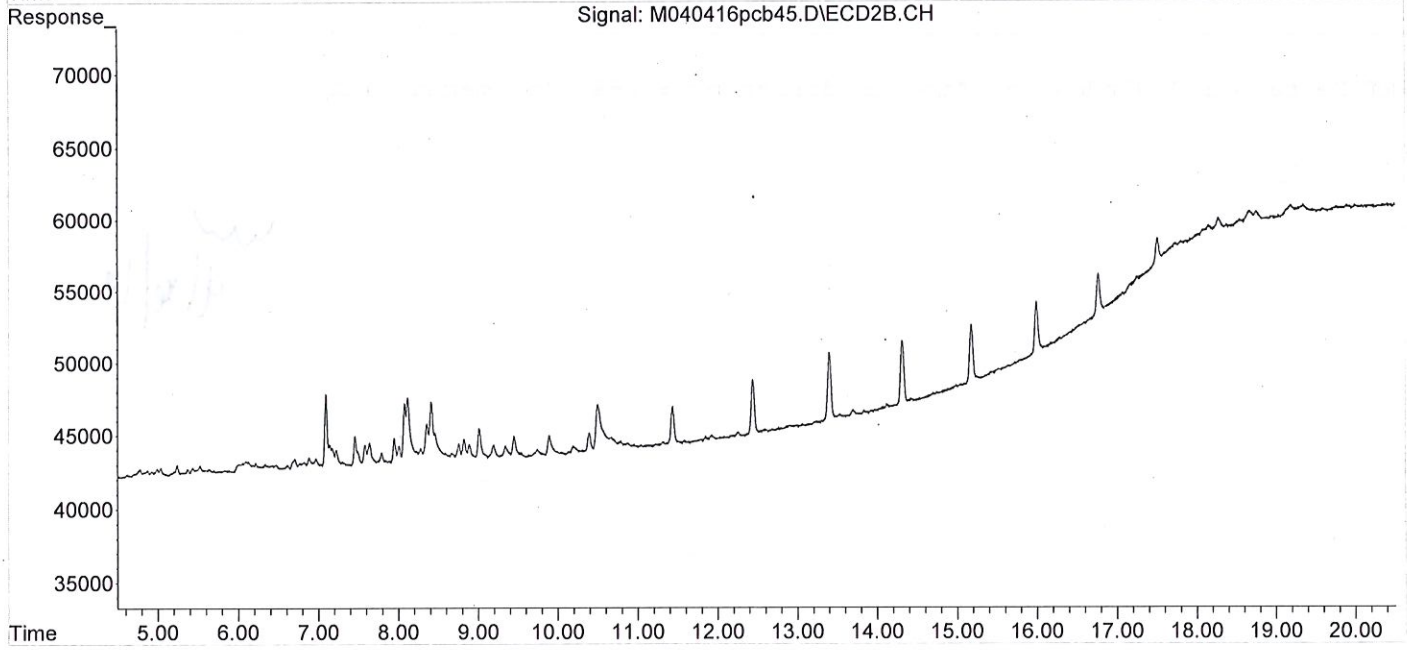
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:34 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 06 15:22:42 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:34 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:21 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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	5.035	0	497	N.D.	N.D.
12) S2 dcb	0.000	13.696	0	425	N.D.	N.D.
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D.	N.D.
3) L1 1016-2	0.000	6.093	0	667	N.D.	N.D.
4) L1 1016-3	0.000	6.703	0	658	N.D.	N.D.
5) L1 1016-4	0.000	6.885	0	708	N.D.	N.D.
6) L1 1016-5	0.000	7.461	0	1956	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	9.344	0	799	N.D.	N.D.
8) L2 1260-2	0.000	9.744	0	436	N.D.	N.D.
9) L2 1260-3	0.000	10.198	0	449	N.D.	N.D.
10) L2 1260-4	0.000	11.310	0	217	N.D.	N.D.
11) L2 1260-5	0.000	11.850f	0	258	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

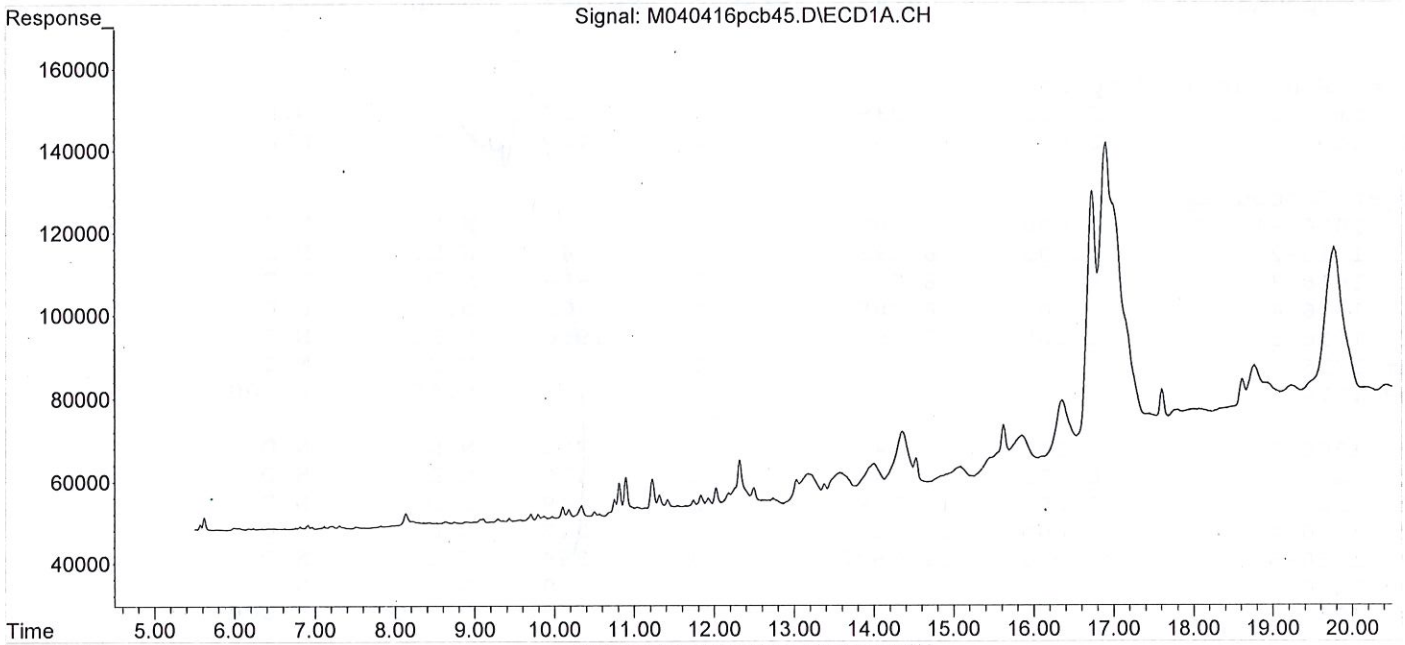
4/6/16

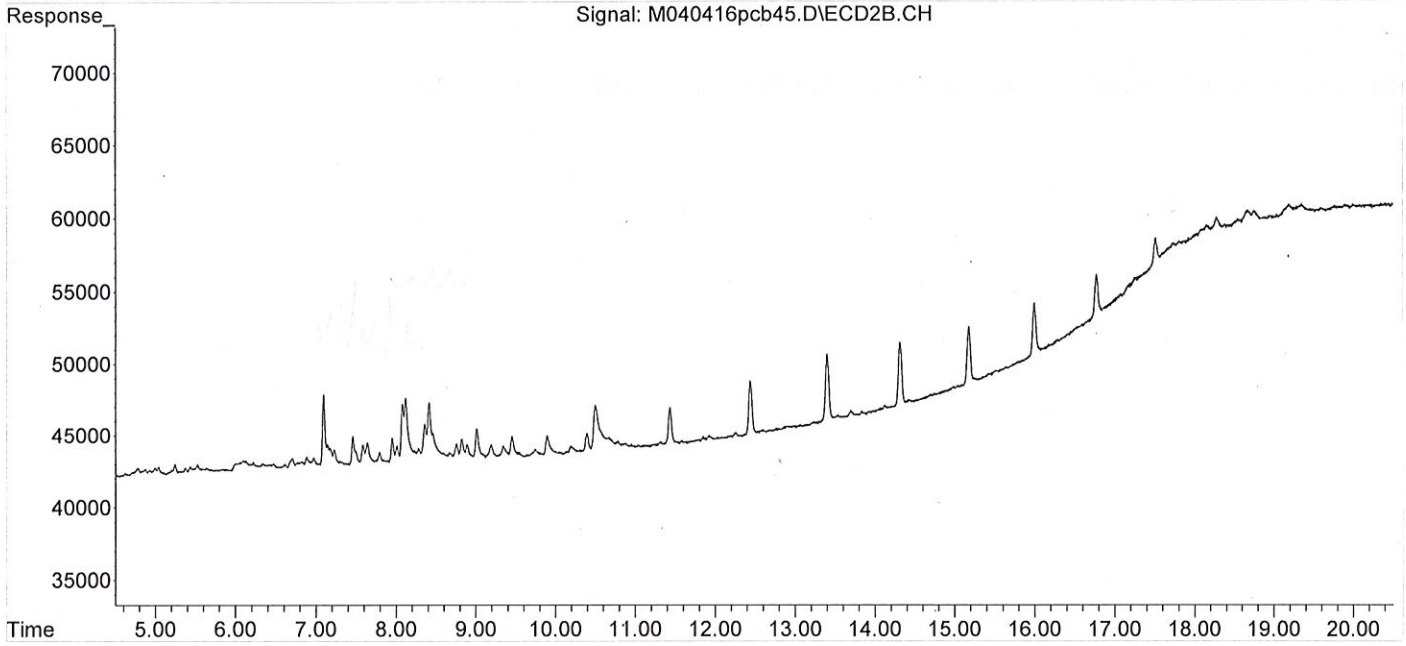
Quantitation Report (Not Reviewed)

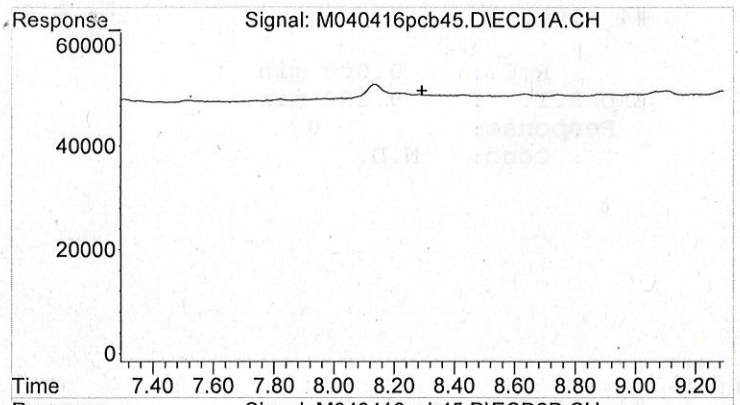
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:34 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:21 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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

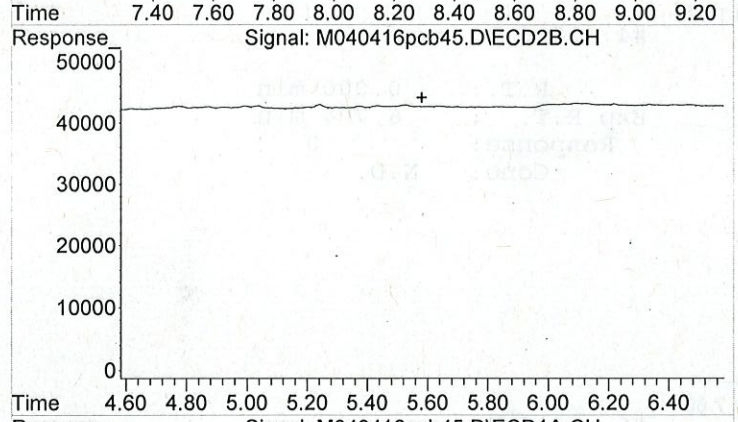






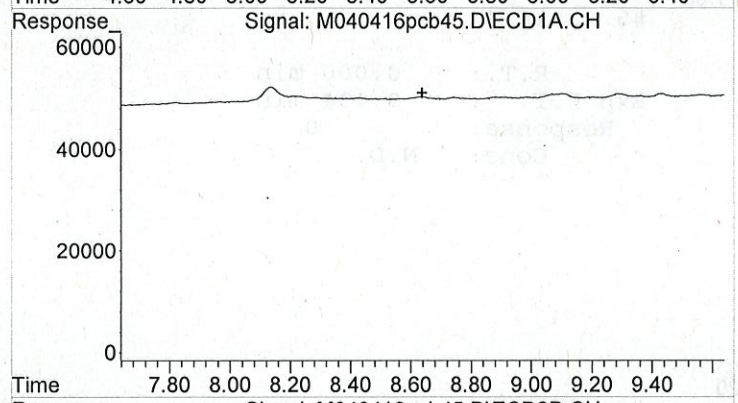
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 8.293 min
Response: 0
Conc: N.D.



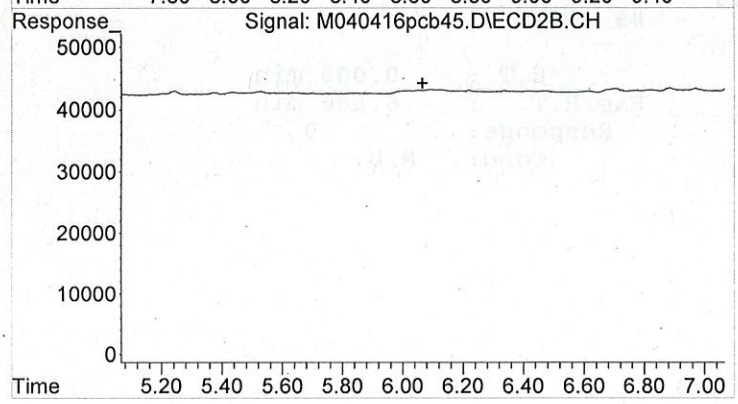
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.583 min
Response: 0
Conc: N.D.



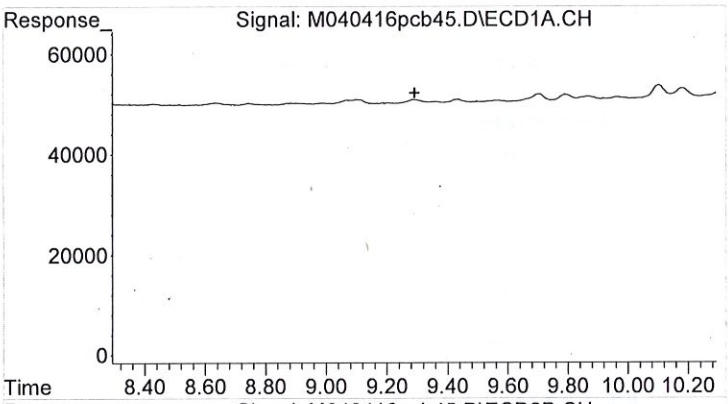
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.639 min
Response: 0
Conc: N.D.



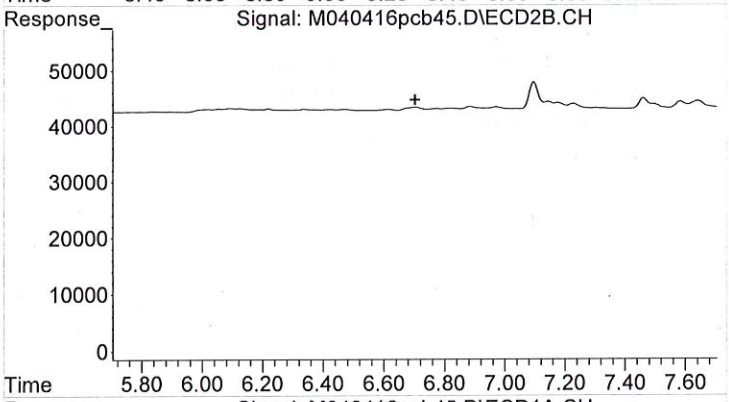
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 6.066 min
Response: 0
Conc: N.D.



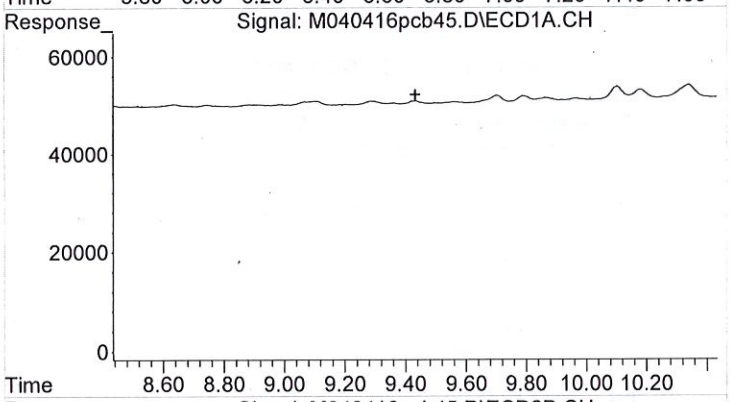
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.292 min
Response: 0
Conc: N.D.



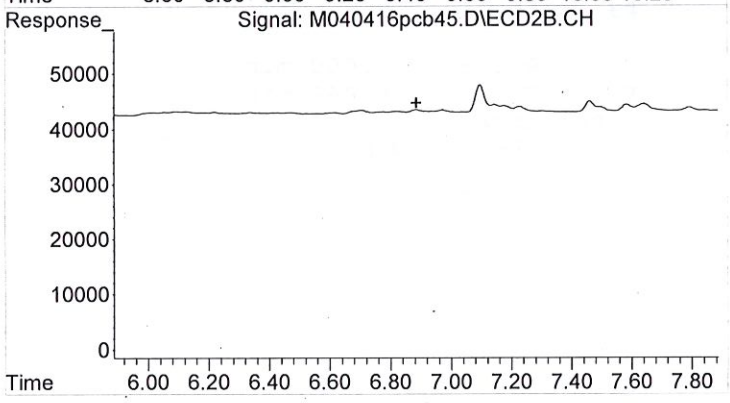
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.704 min
Response: 0
Conc: N.D.



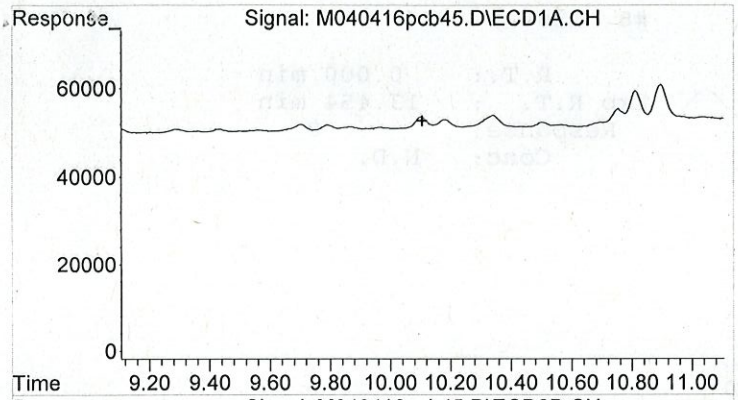
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.434 min
Response: 0
Conc: N.D.



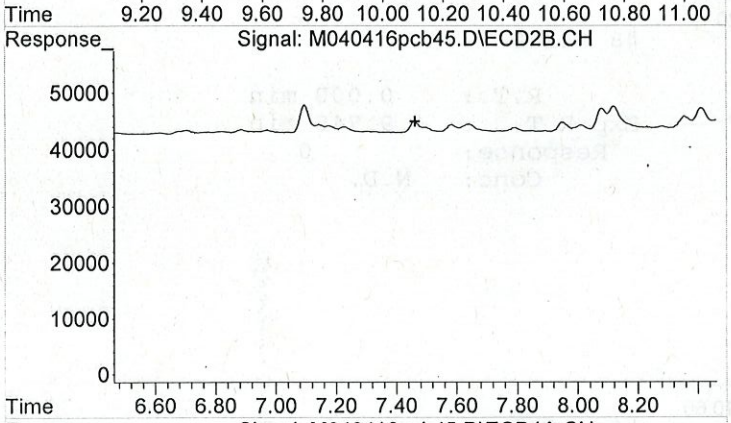
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.886 min
Response: 0
Conc: N.D.



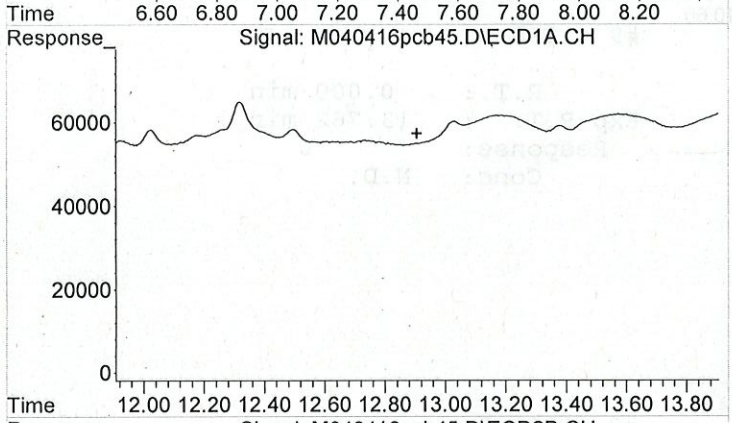
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 10.106 min
Response: 0
Conc: N.D.



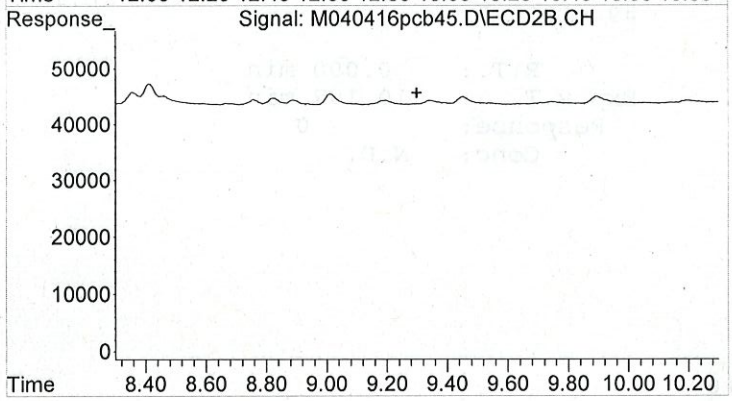
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 7.463 min
Response: 0
Conc: N.D.



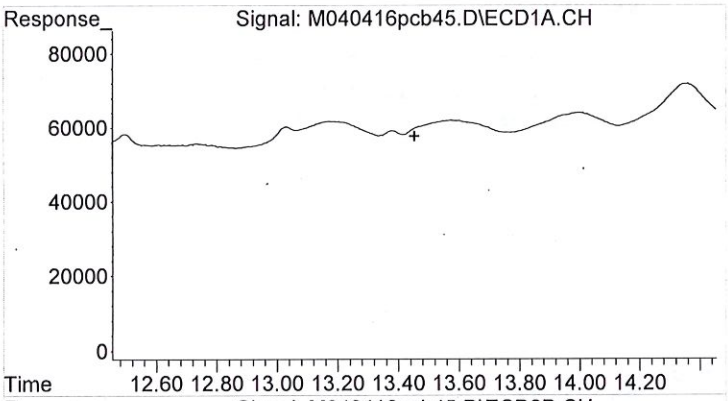
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.907 min
Response: 0
Conc: N.D.



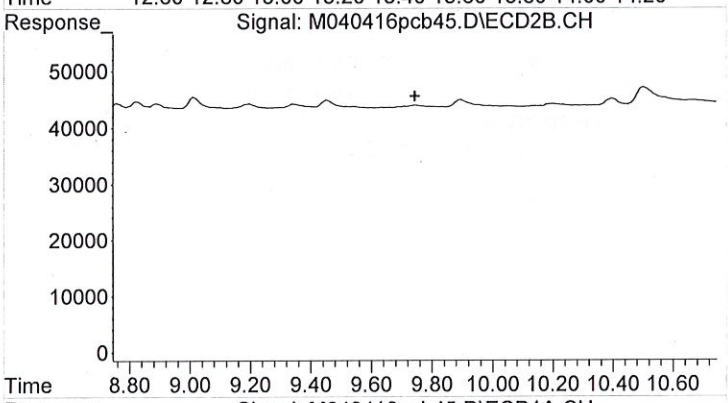
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 9.300 min
Response: 0
Conc: N.D.



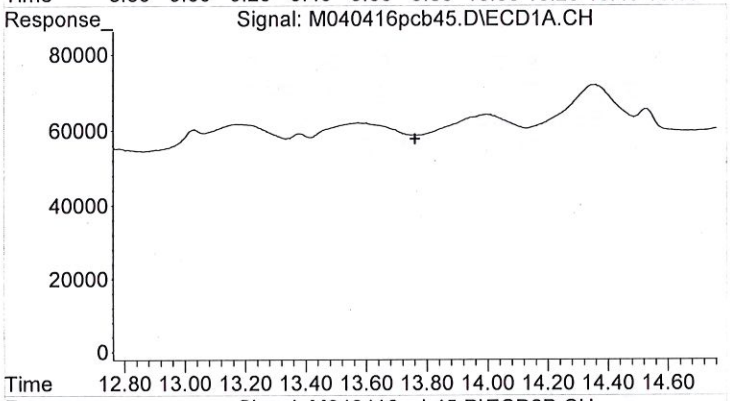
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.454 min
Response: 0
Conc: N.D.



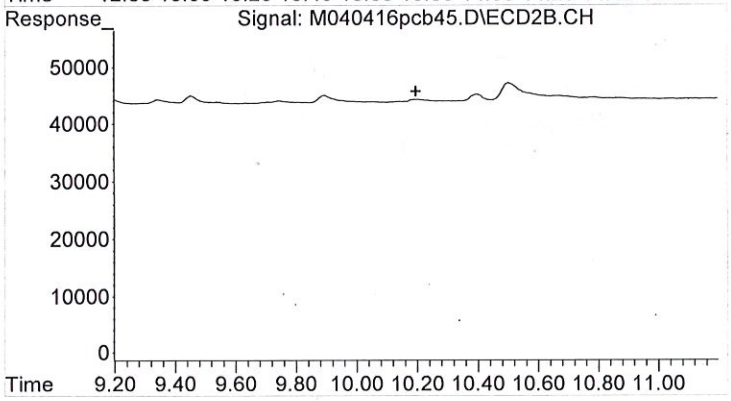
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.745 min
Response: 0
Conc: N.D.



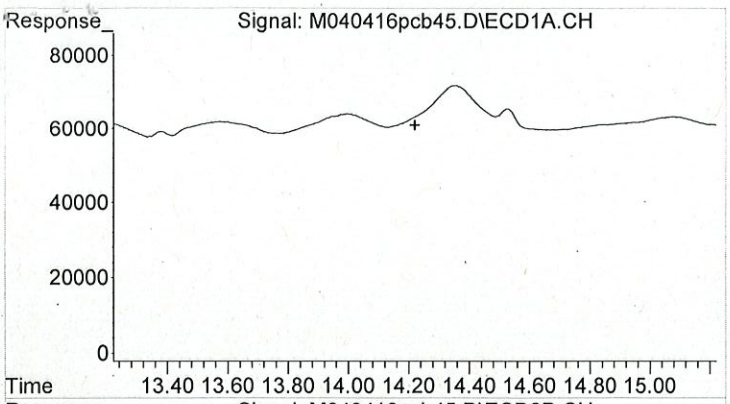
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.762 min
Response: 0
Conc: N.D.



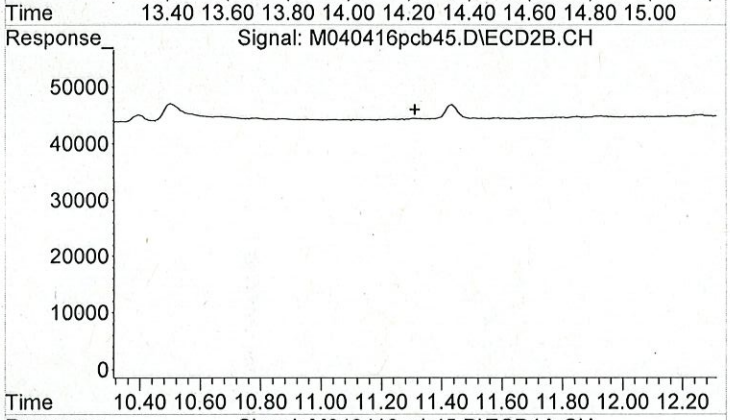
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 10.197 min
Response: 0
Conc: N.D.



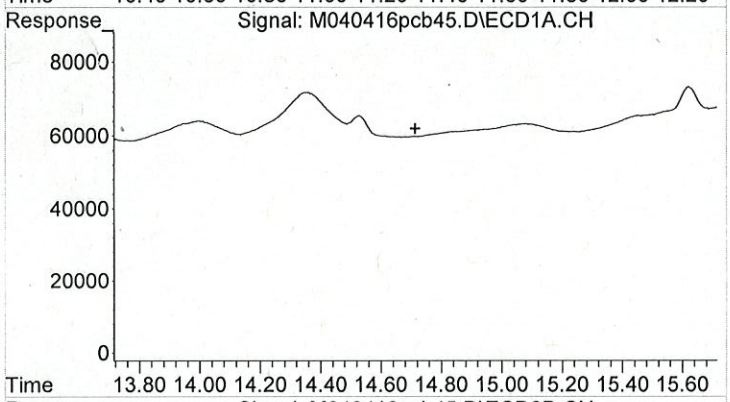
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 14.221 min
Response: 0
Conc: N.D.



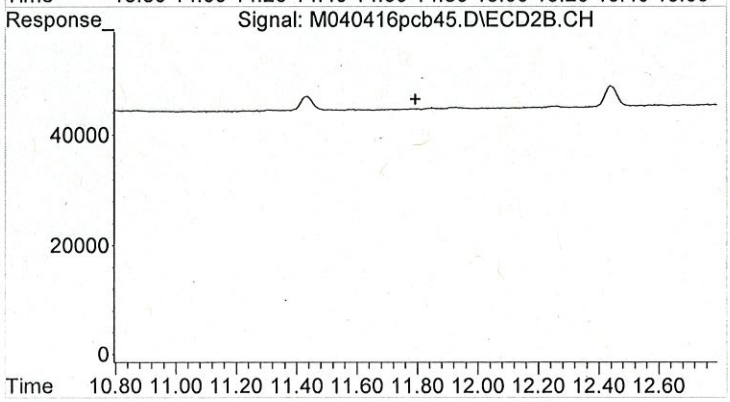
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 11.313 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 14.715 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 11.795 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:34 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:36:39 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 1242 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242 -1			0	0	N.D.	N.D.
Average 1242 -1					0.000	0.000

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

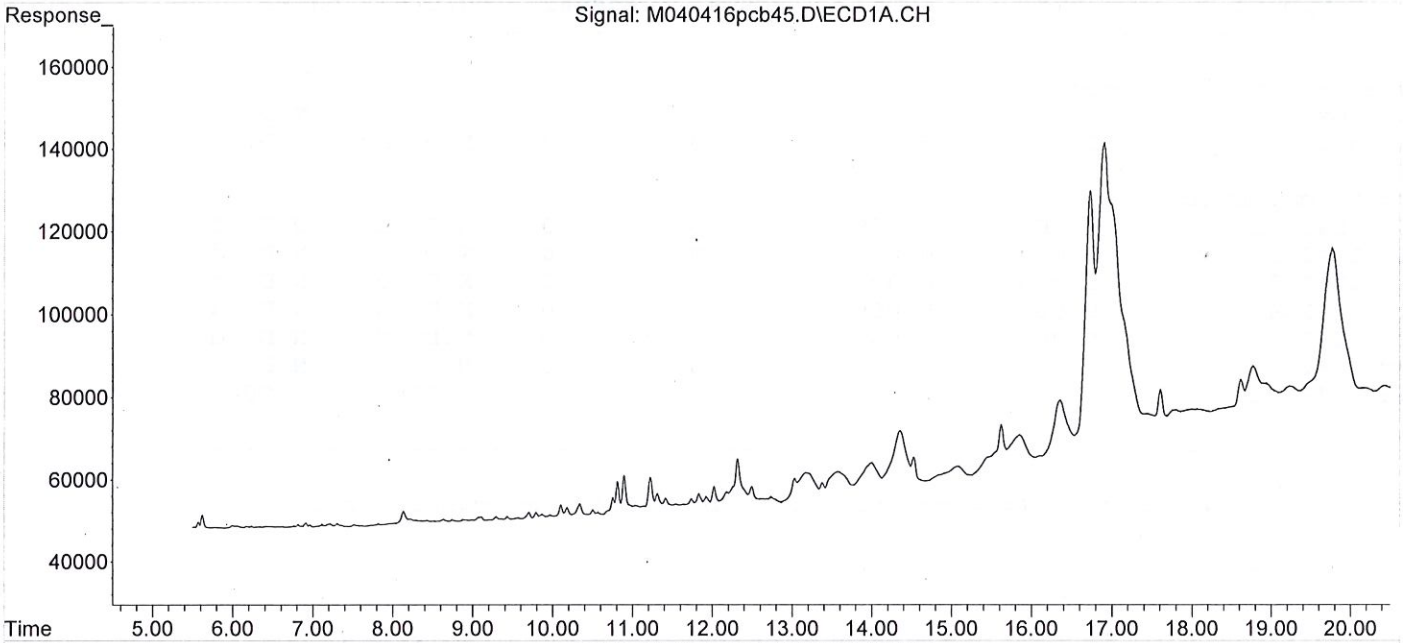
ww
4/12/16

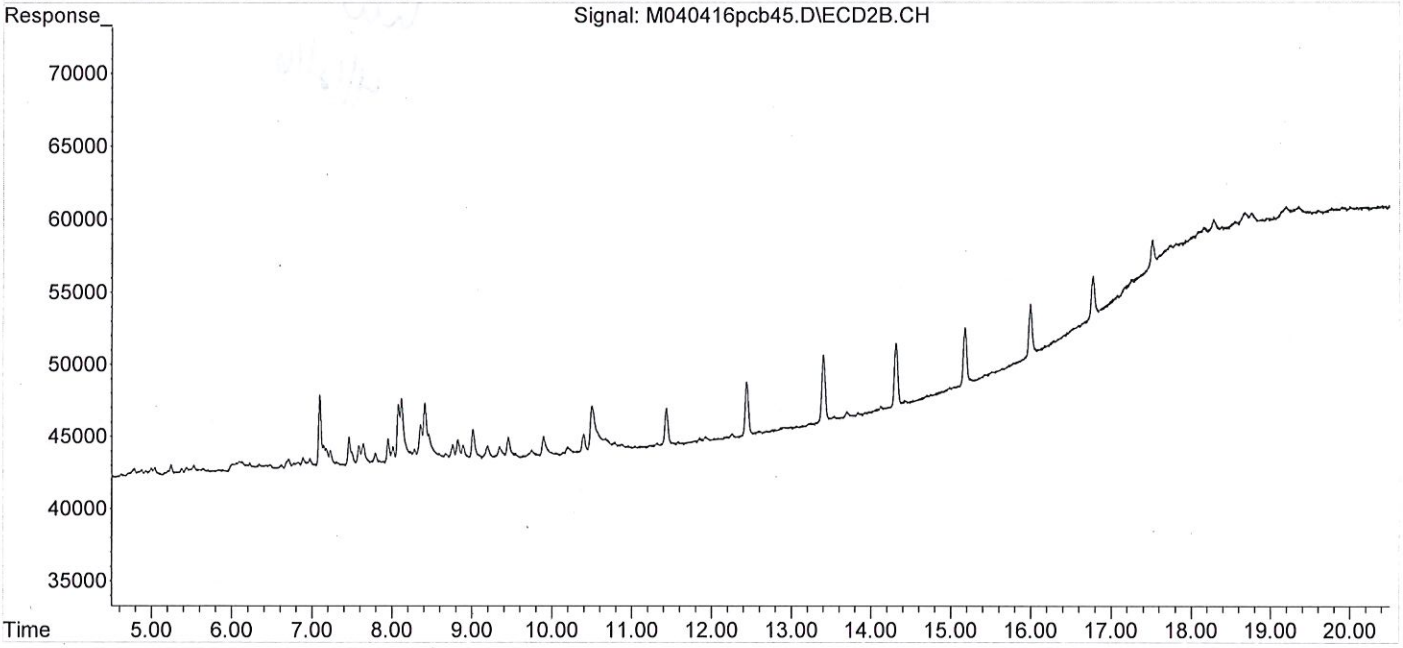
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:34 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:36:39 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:34 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:25 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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	11.313	0.000	~~4074~~	0	NoCal	N.D.
Target Compounds						
2) L1 1242 -1	8.635	6.703	692	658	3260.989	N.D. #
3) L1 1242-2	9.103	6.885	878	708	3336.856	N.D. #
4) L1 1242-3	9.702	7.461	1415	1956	3323.969	N.D. #
5) L1 1242-4	10.340	8.119	2846	4474	3477.292	7.834 #
6) L1 1242-5	11.225	8.412	8191	4067	7.435	9.523 #
Sum 1242 -1			14022	8542	13406.541	10.038
Average 1242 -1					2681.308	5.019

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

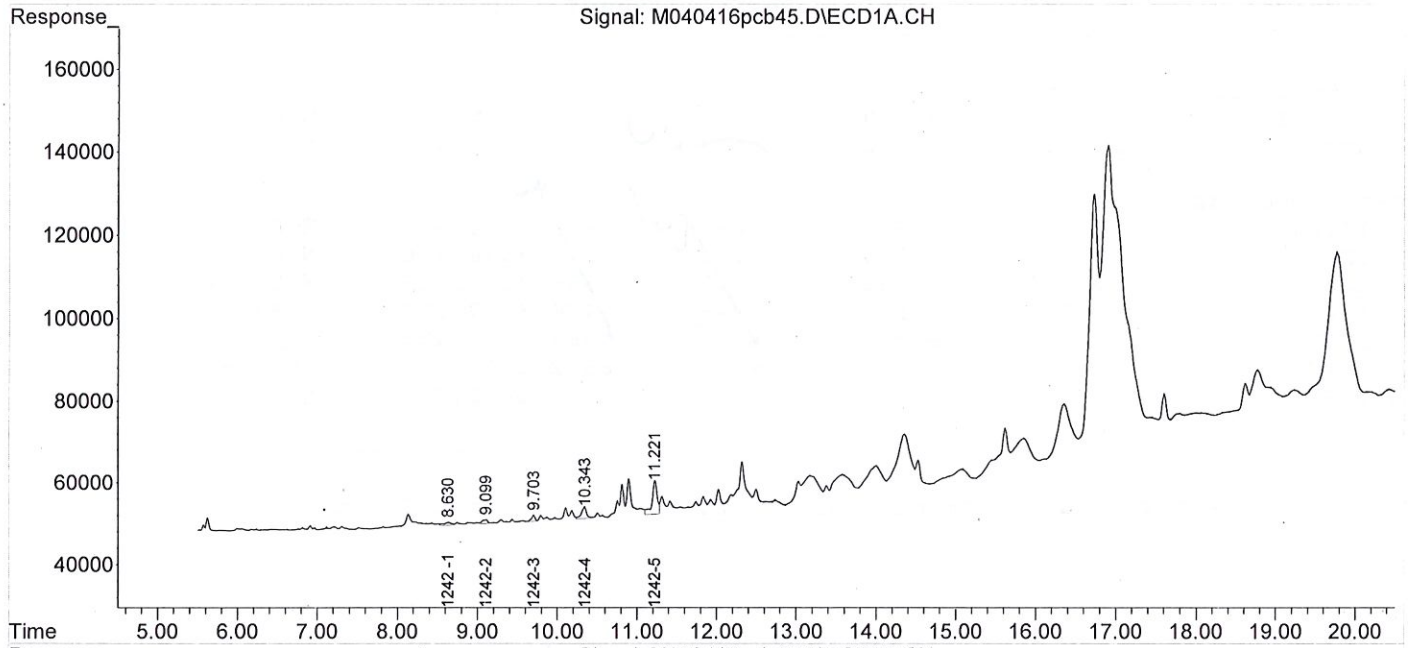
4/11/16

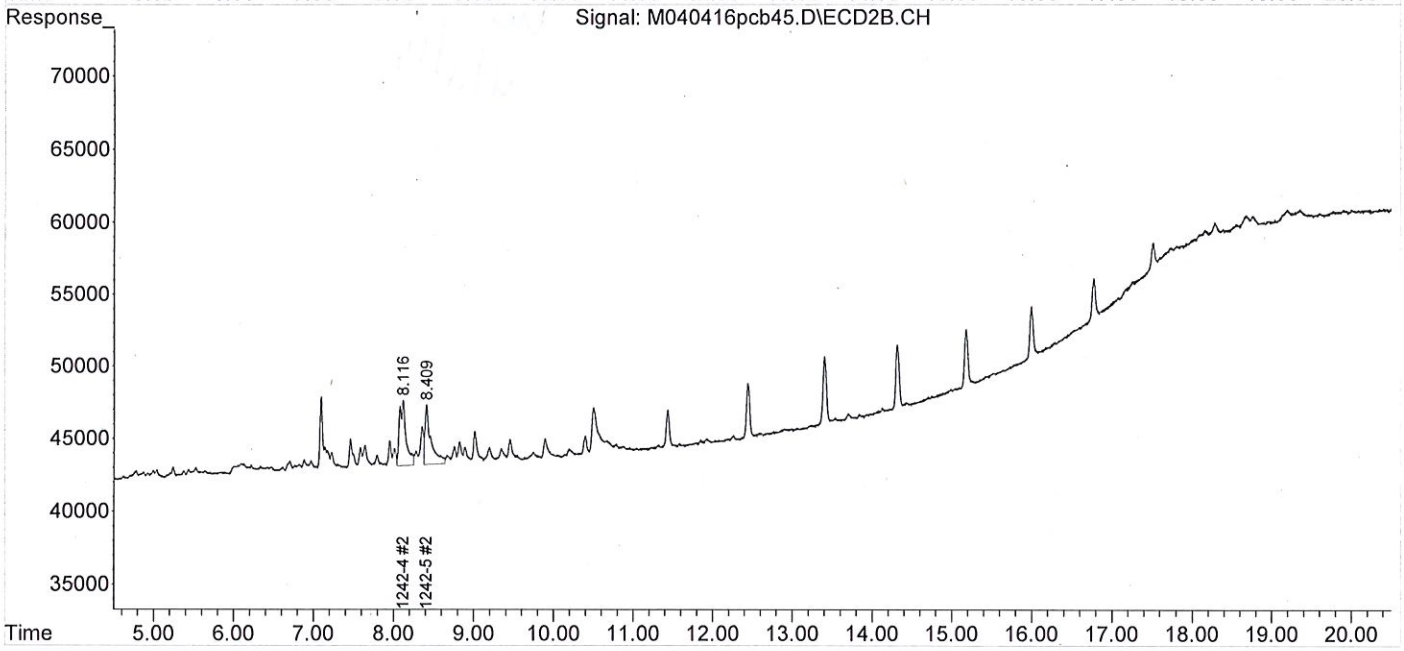
Quantitation Report (Not Reviewed)

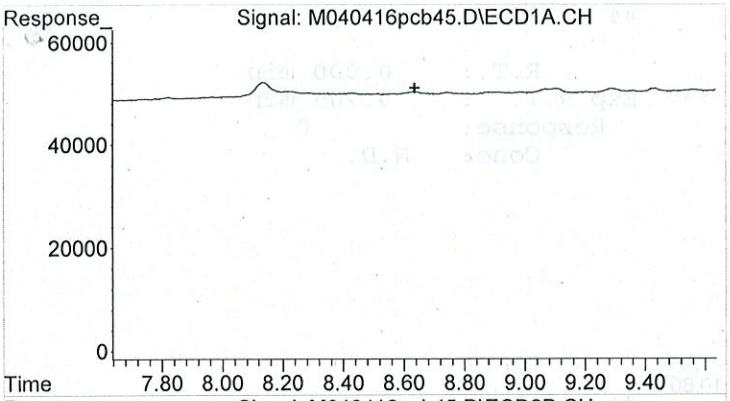
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb45.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:34 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:25 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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

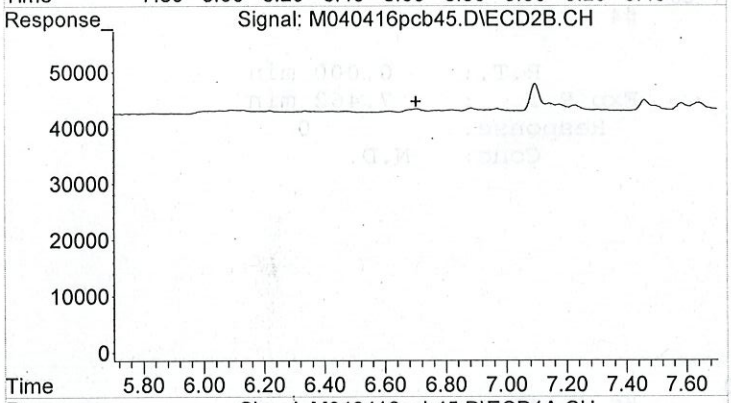






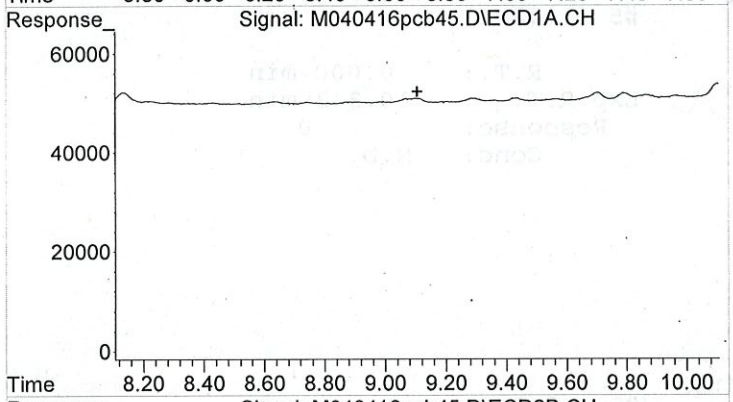
#2 1242 -1

R.T.: 0.000 min
Exp R.T. : 8.637 min
Response: 0
Conc: N.D.



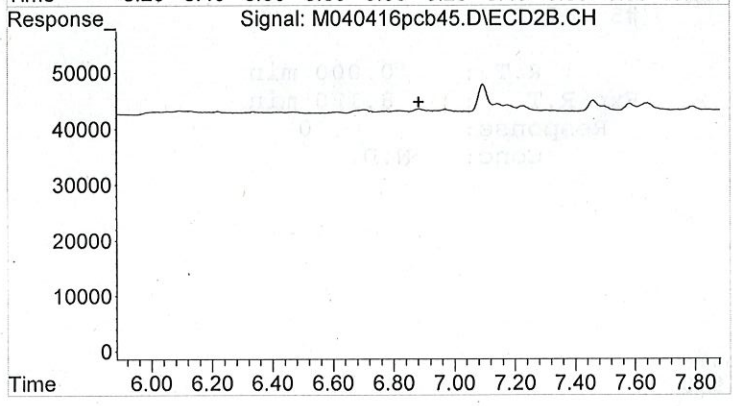
#2 1242 -1

R.T.: 0.000 min
Exp R.T. : 6.703 min
Response: 0
Conc: N.D.



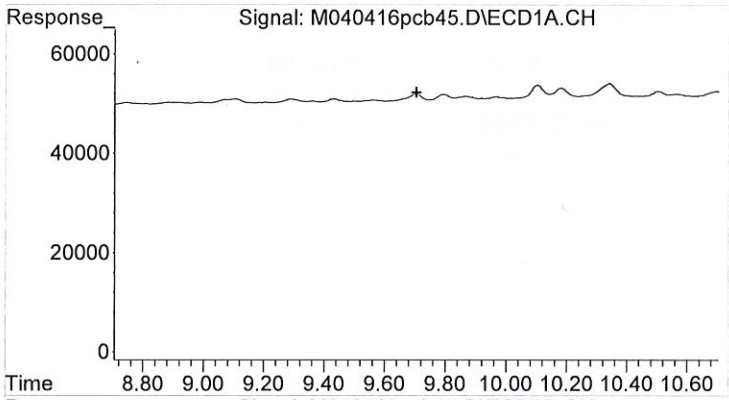
#3 1242-2

R.T.: 0.000 min
Exp R.T. : 9.107 min
Response: 0
Conc: N.D.



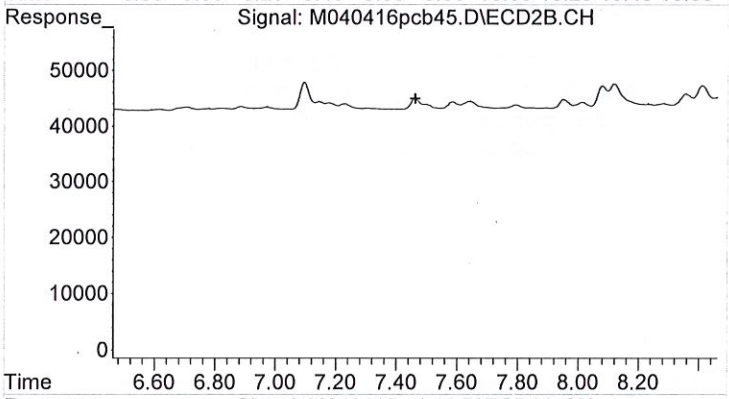
#3 1242-2

R.T.: 0.000 min
Exp R.T. : 6.885 min
Response: 0
Conc: N.D.



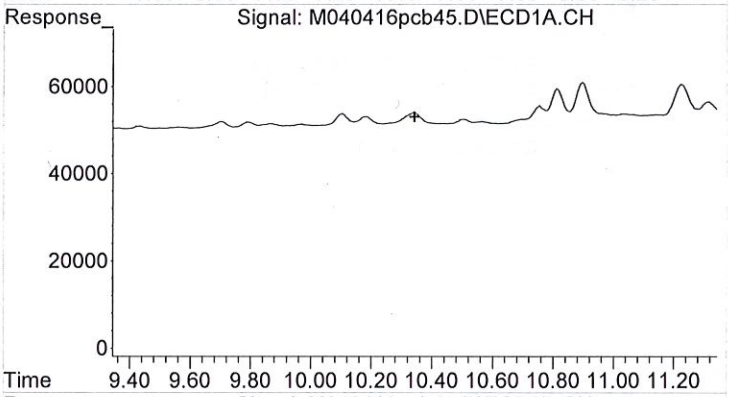
#4 1242-3

R.T.: 0.000 min
Exp R.T. : 9.705 min
Response: 0
Conc: N.D.



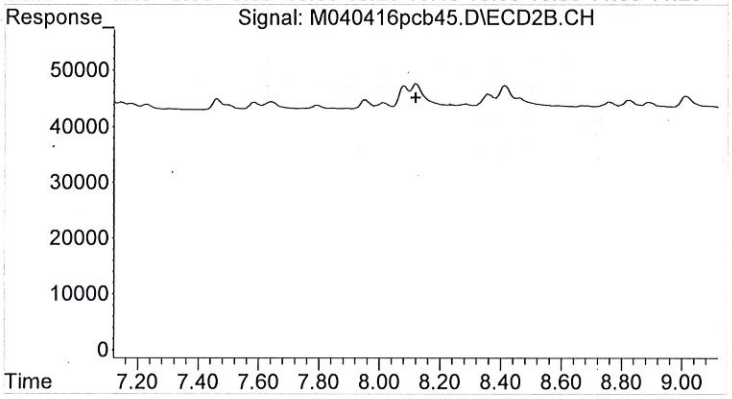
#4 1242-3

R.T.: 0.000 min
Exp R.T. : 7.462 min
Response: 0
Conc: N.D.



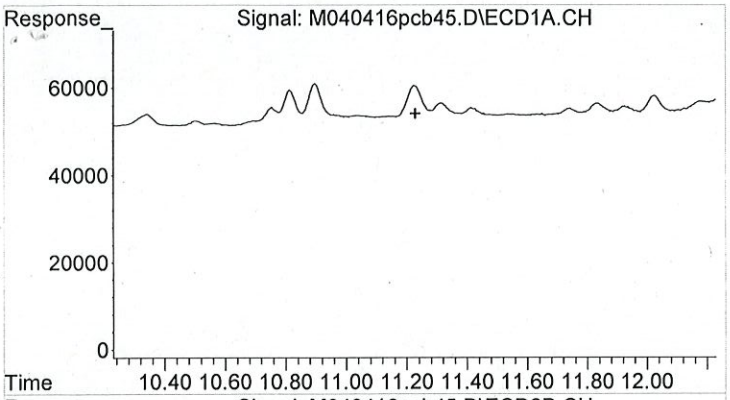
#5 1242-4

R.T.: 0.000 min
Exp R.T. : 10.343 min
Response: 0
Conc: N.D.



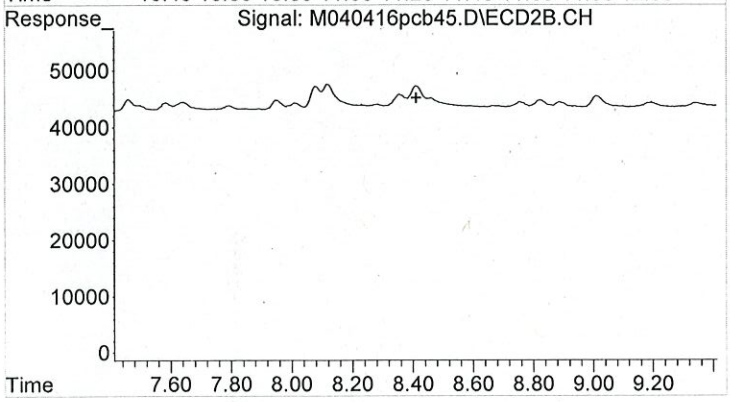
#5 1242-4

R.T.: 0.000 min
Exp R.T. : 8.120 min
Response: 0
Conc: N.D.



#6 1242-5

R.T.: 0.000 min
Exp R.T. : 11.229 min
Response: 0
Conc: N.D.



#6 1242-5

R.T.: 0.000 min
Exp R.T. : 8.412 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:43 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 06 15:26:42 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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. d	N.D. d
12) S2 dcb	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016-4	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
8) L2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

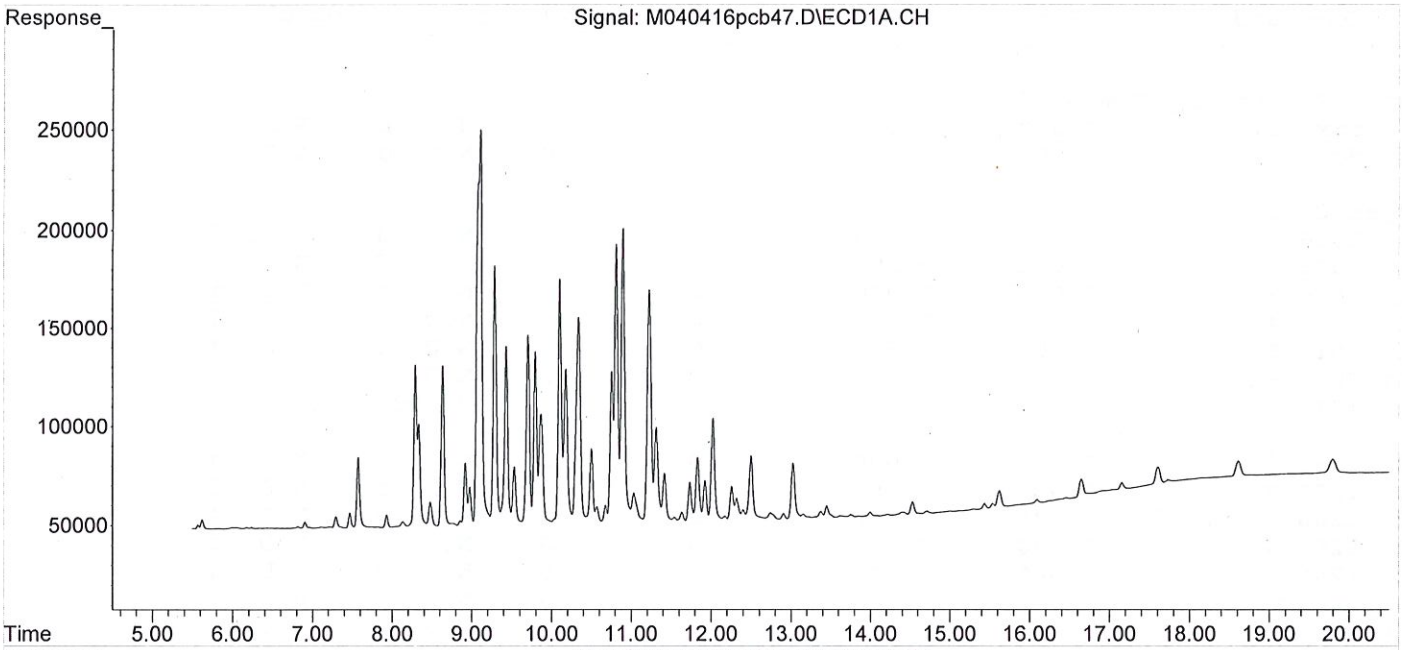
mw
4/6/16

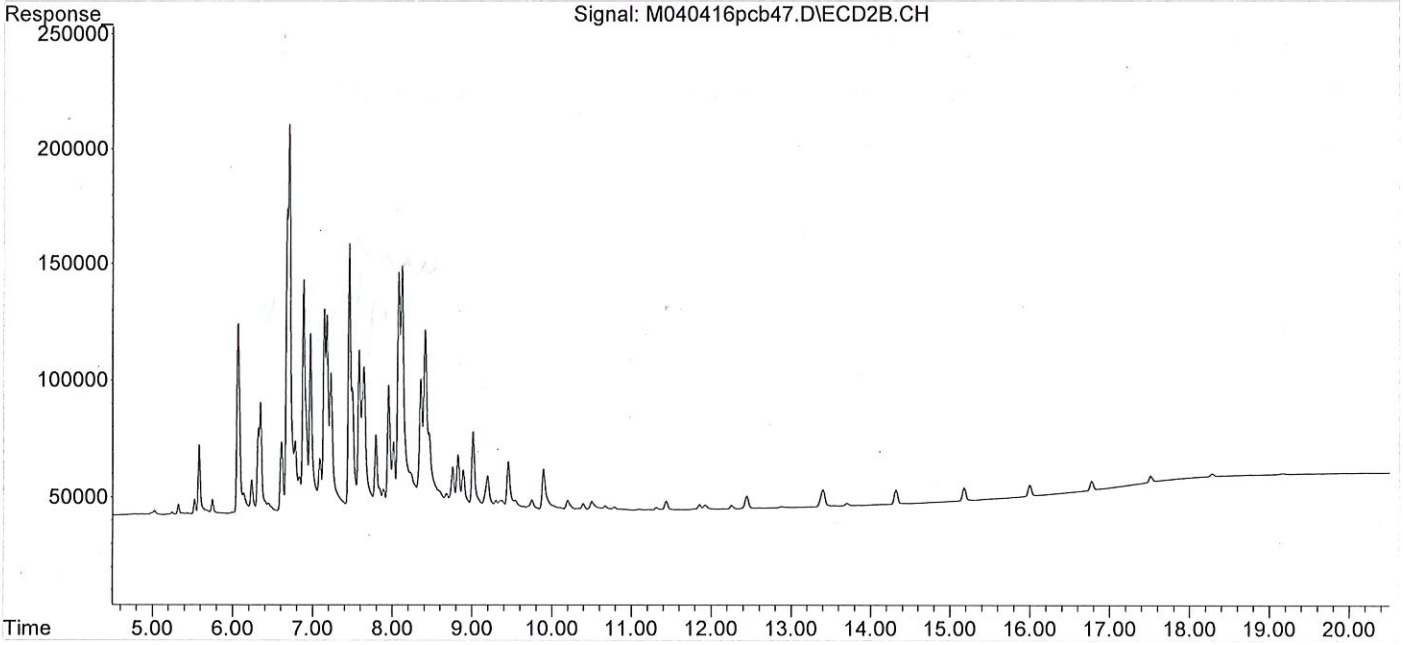
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:43 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 06 15:26:42 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:43 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:29 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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	5.023	0	1673	N.D.	N.D.	
12)	S2 dcb	0.000	13.699	0	1102	N.D.	N.D.	
	Target Compounds							
2)	L1 1016 -1	8.289	5.581	80177	29152	83.808	55.295	#
3)	L1 1016-2	8.635	6.065	80511	81213	97.953	101.600	
4)	L1 1016-3	9.286	6.702	130535	168885	129.574	156.220	
5)	L1 1016-4	9.430	6.884	89047	99439	132.604	156.265	
6)	L1 1016-5	10.101	7.460	122343	113188	164.688	207.327	#
	Sum 1016 -1			502613	491876	608.626	676.707	
	Average 1016 -1					121.725	135.341	
7)	L2 1260-1	0.000	9.296	0	4607	N.D.	N.D.	
8)	L2 1260-2	0.000	9.745	0	4729	N.D.	N.D.	
9)	L2 1260-3	0.000	10.196	0	4350	N.D.	1.219	#
10)	L2 1260-4	0.000	11.310	0	948	N.D.	N.D.	
11)	L2 1260-5	0.000	11.852f	0	1985	N.D.	N.D.	
	Sum 1260-1			0	4350	N.D.	N.D.	
	Average 1260-1					0.000	-5.488	

PCB pg/2 carryover from 3

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

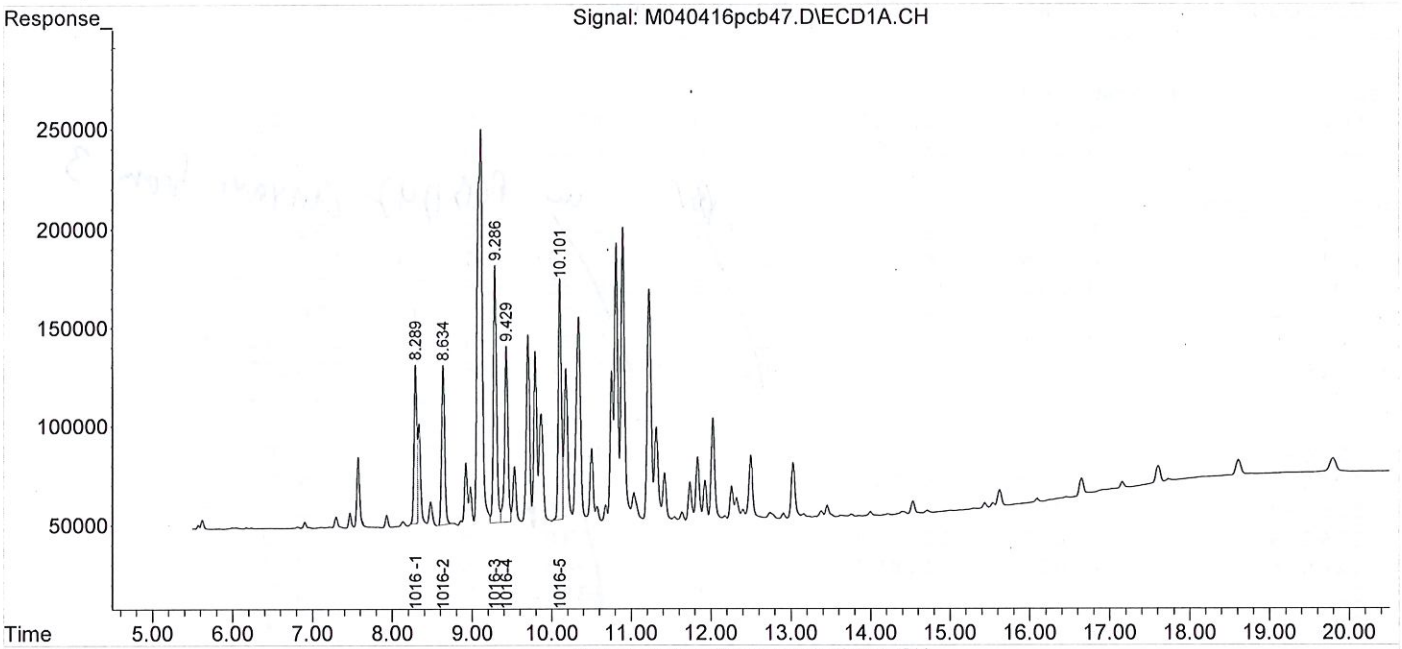
4/6/16

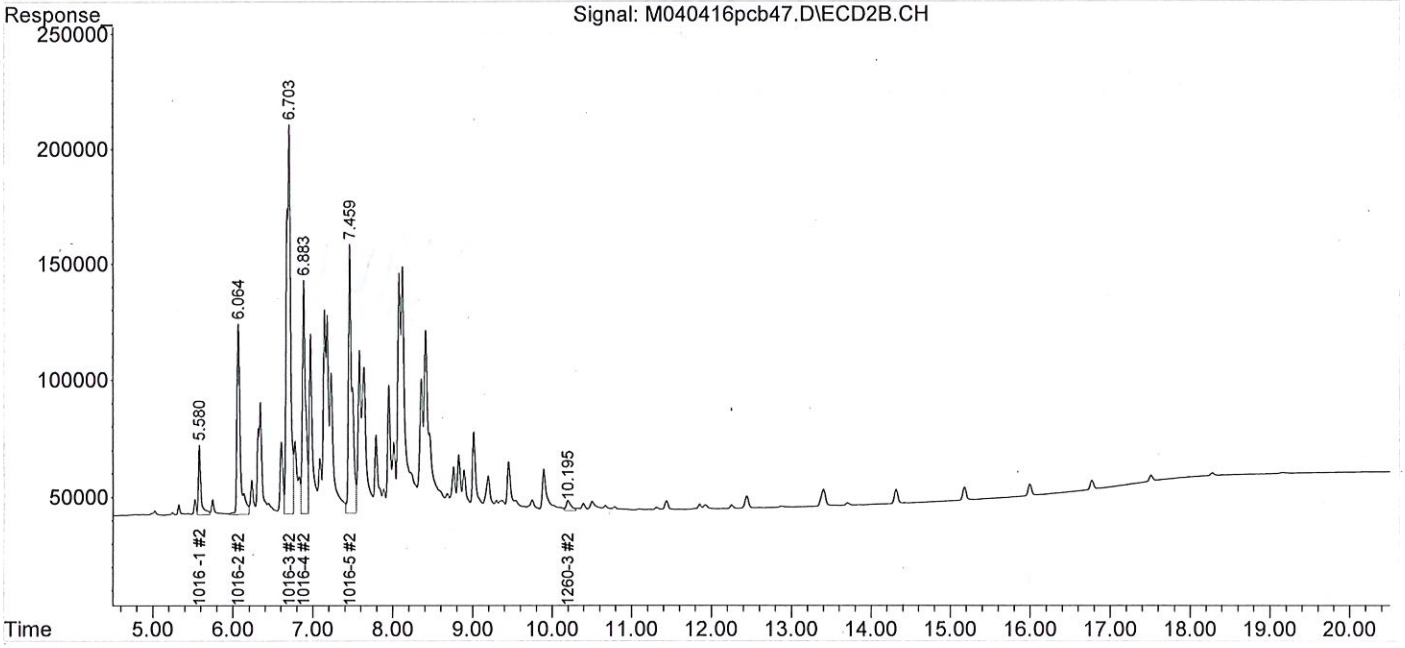
Quantitation Report (Not Reviewed)

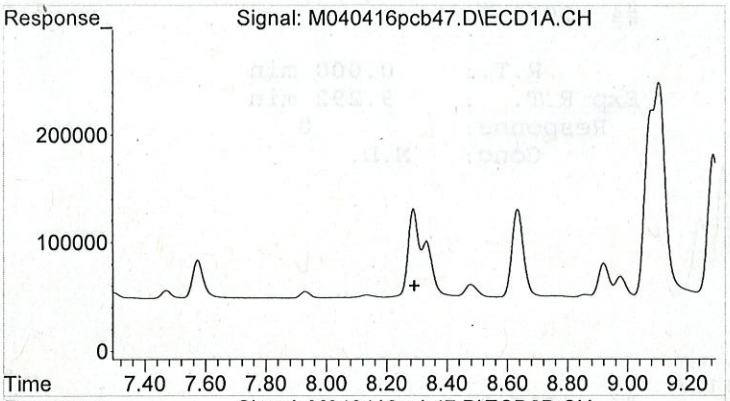
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:43 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:29 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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

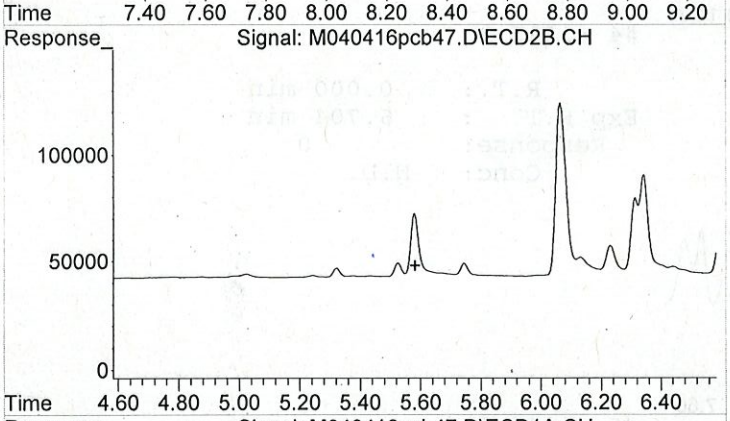






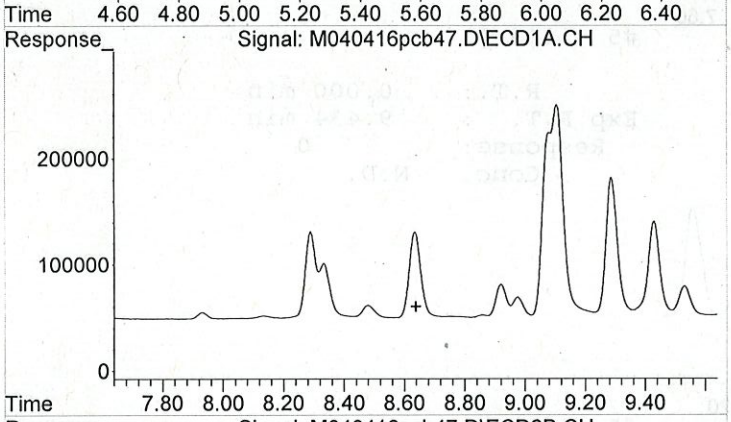
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 8.293 min
Response: 0
Conc: N.D.



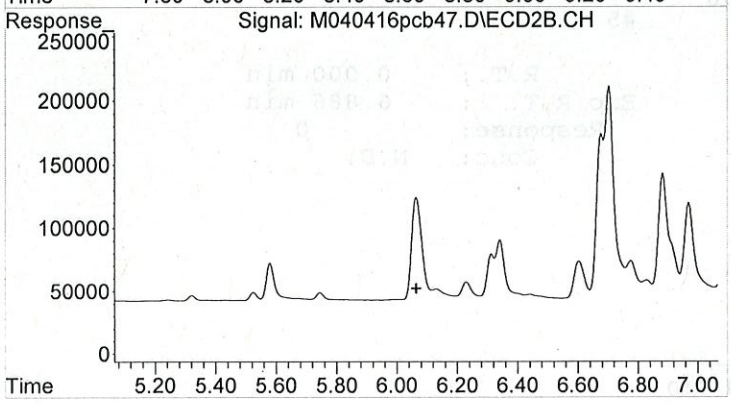
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.583 min
Response: 0
Conc: N.D.



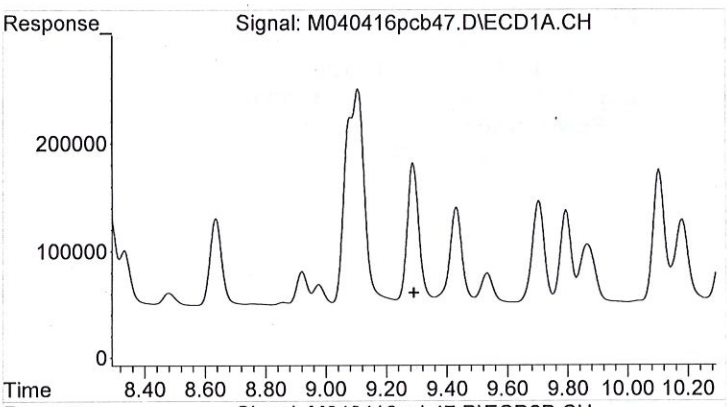
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.639 min
Response: 0
Conc: N.D.



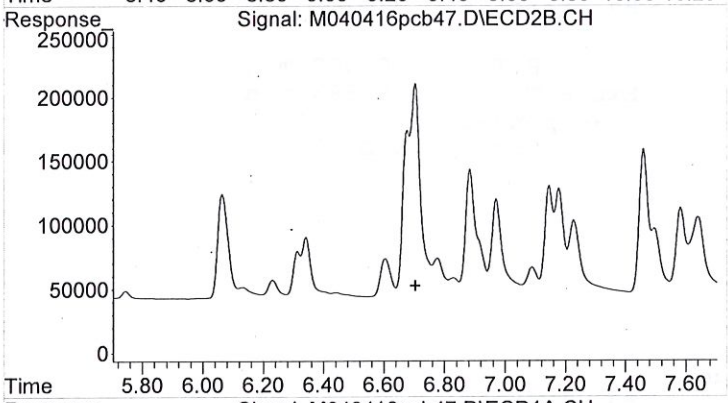
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 6.066 min
Response: 0
Conc: N.D.



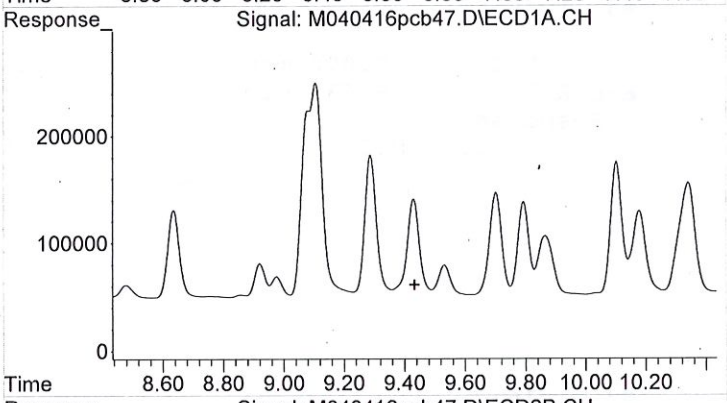
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.292 min
Response: 0
Conc: N.D.



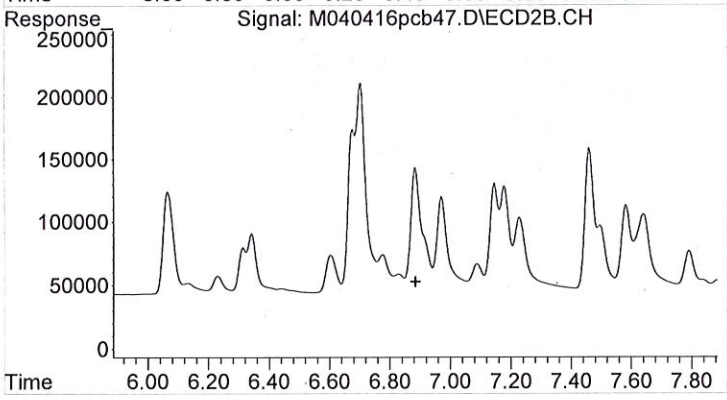
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.704 min
Response: 0
Conc: N.D.



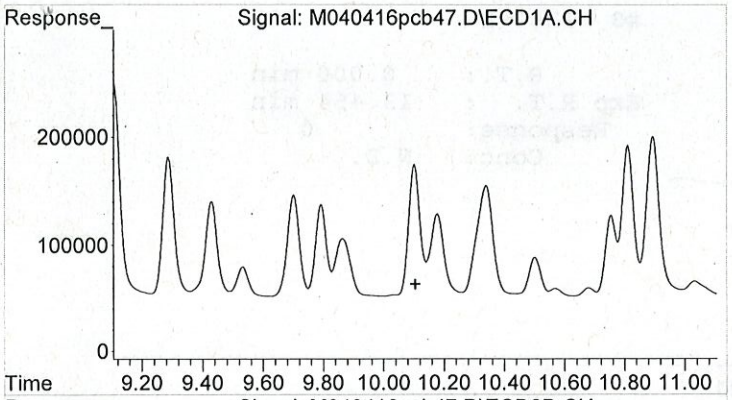
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.434 min
Response: 0
Conc: N.D.



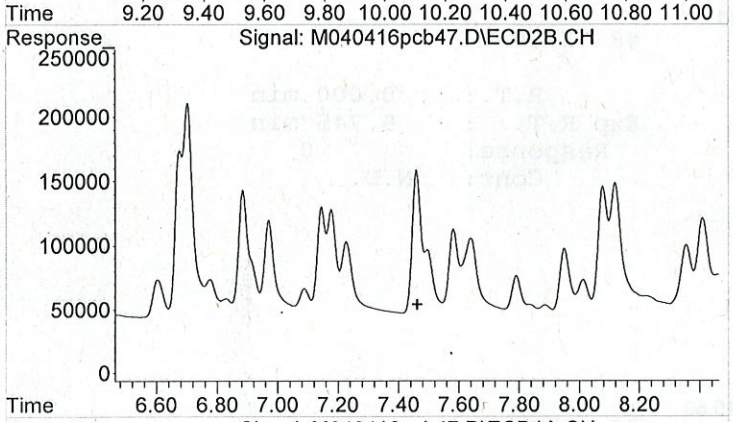
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.886 min
Response: 0
Conc: N.D.



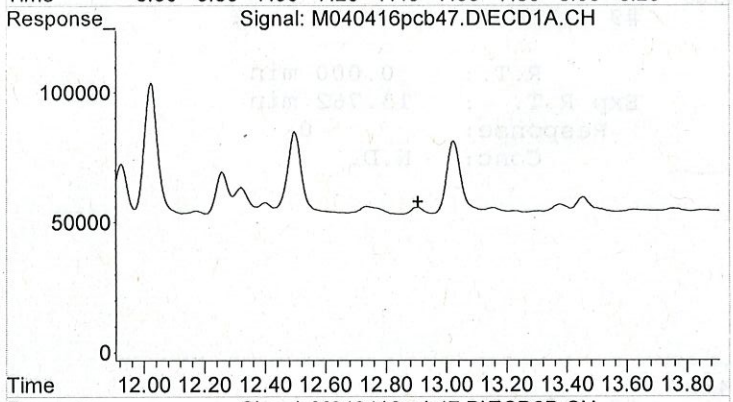
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 10.106 min
Response: 0
Conc: N.D.



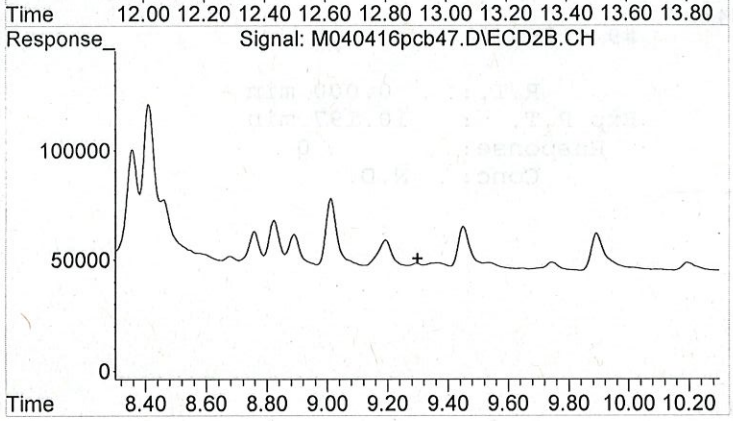
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 7.463 min
Response: 0
Conc: N.D.



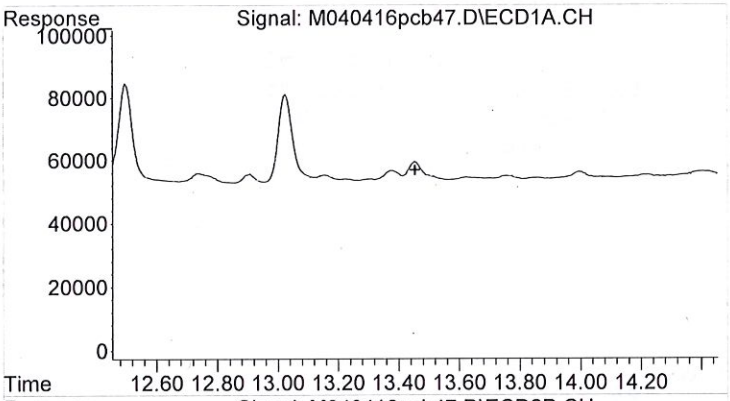
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.907 min
Response: 0
Conc: N.D.



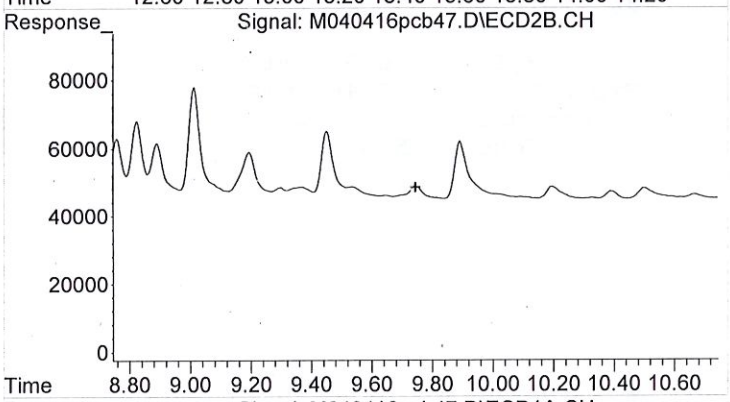
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 9.300 min
Response: 0
Conc: N.D.



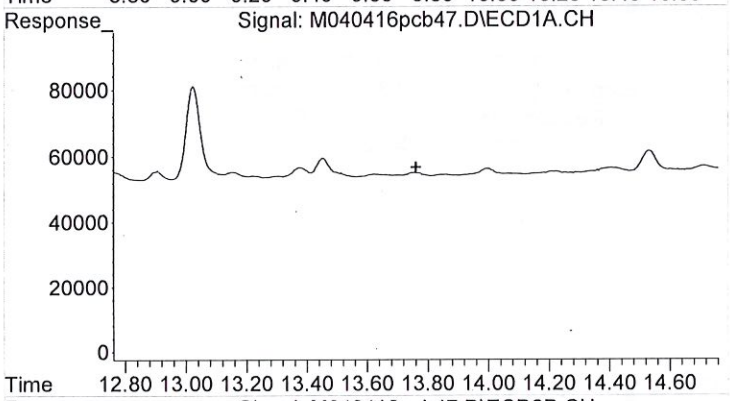
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.454 min
Response: 0
Conc: N.D.



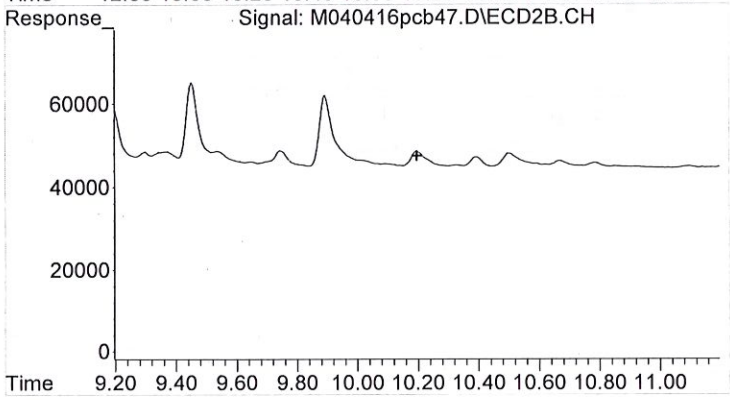
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.745 min
Response: 0
Conc: N.D.



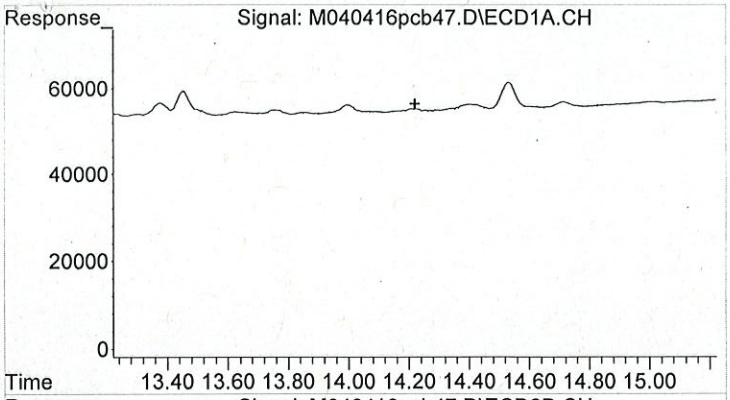
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.762 min
Response: 0
Conc: N.D.



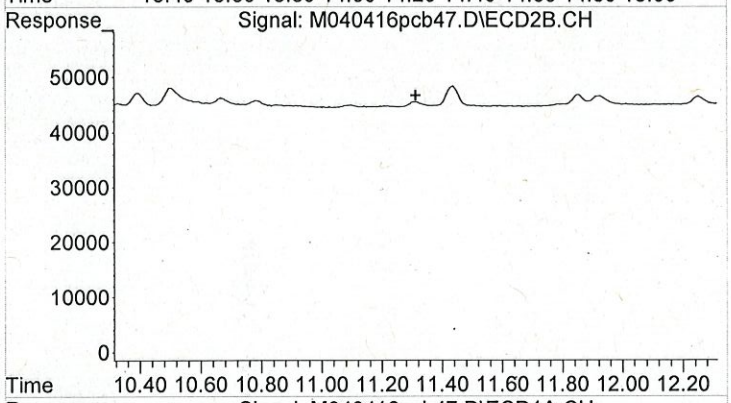
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 10.197 min
Response: 0
Conc: N.D.



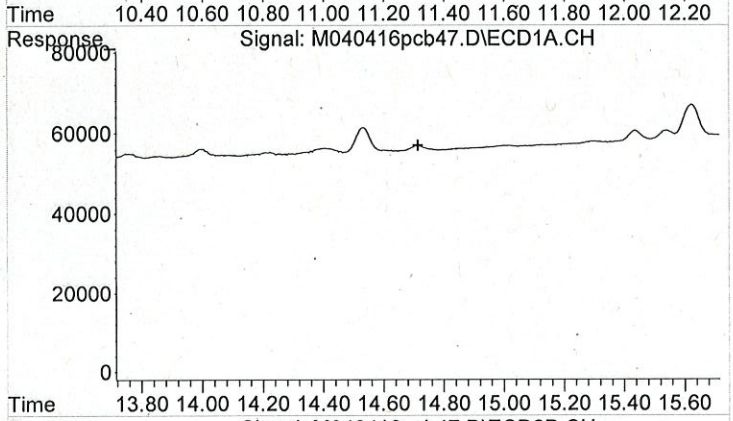
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 14.221 min
Response: 0
Conc: N.D.



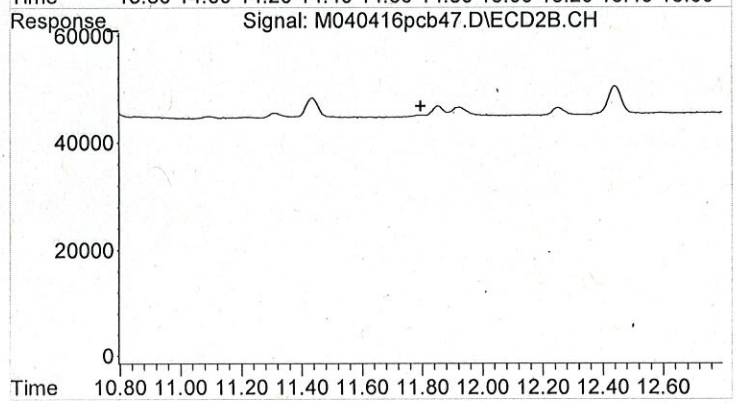
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 11.313 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 14.715 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 11.795 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:43 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:38:25 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 1242 -1	8.635	6.702	81107	168885	100.372	178.673	#
3)	L1 1242-2	9.099	6.884	193053	99439	119.370	182.958	#
4)	L1 1242-3	9.701	7.460	95980	113188	155.771	238.966	#
5)	L1 1242-4	10.337	8.118	104214	104973	156.483	246.930	#
6)	L1 1242-5	11.225	8.410	118011	77737	171.108	254.070	#
	Sum 1242 -1			592365	564223	703.104	1101.597	
	Average 1242 -1					140.621	220.319	

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

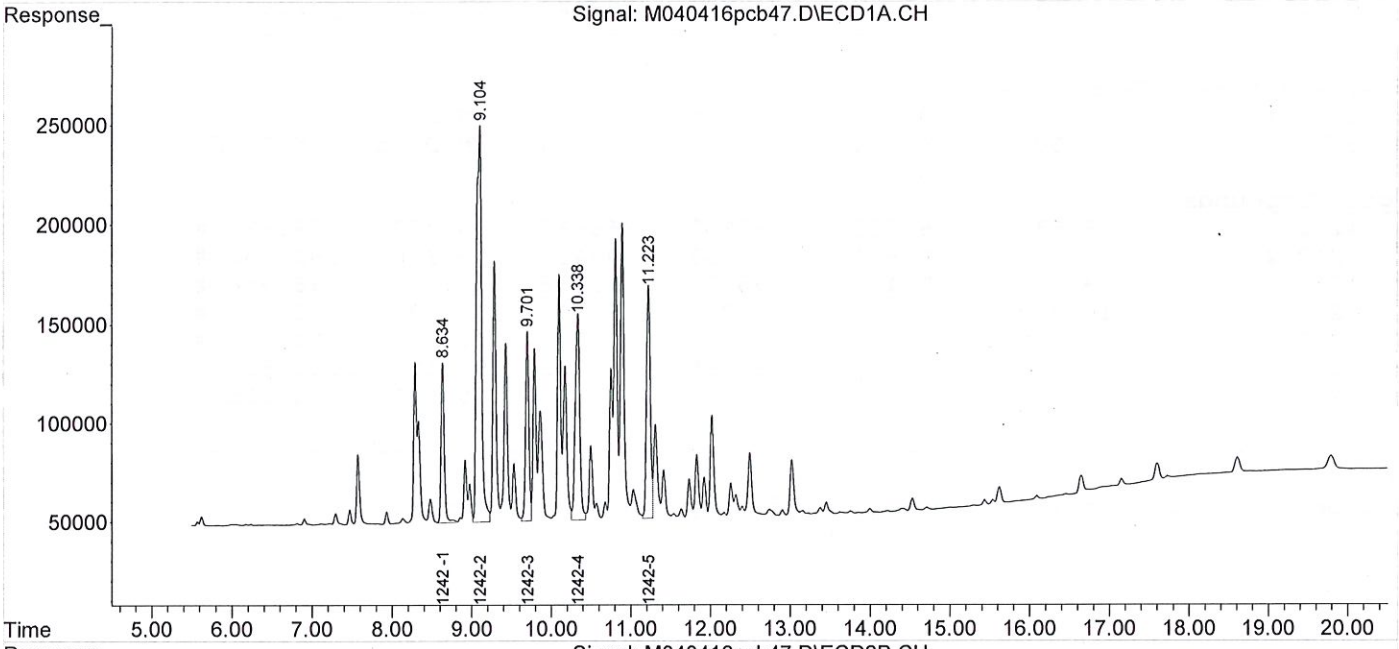
lw
4/12/16

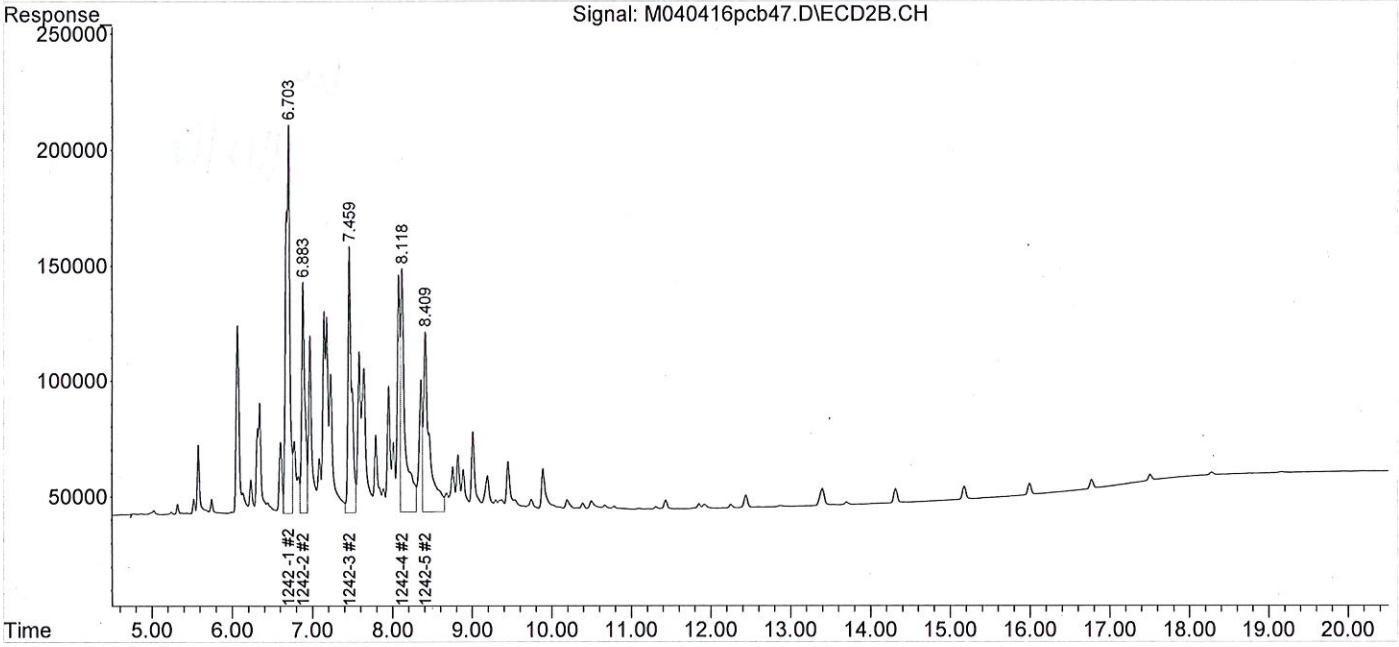
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:43 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:38:25 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:43 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:33 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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	11.313	0.000	~~47333~~	0	NoCal	N.D.
Target Compounds						
2) L1 1242 -1	8.635	6.702	81107	168885	100.372	178.673 #
3) L1 1242-2	9.099	6.884	193053	99439	119.370	182.958 #
4) L1 1242-3	9.701	7.460	95980	113188	155.771	238.966 #
5) L1 1242-4	10.337	8.118	104214	104973	156.483	246.930 #
6) L1 1242-5	11.225	8.410	118011	77737	171.108	254.070 #
Sum 1242 -1			592365	564223	703.104	1101.597
Average 1242 -1					140.621	220.319

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

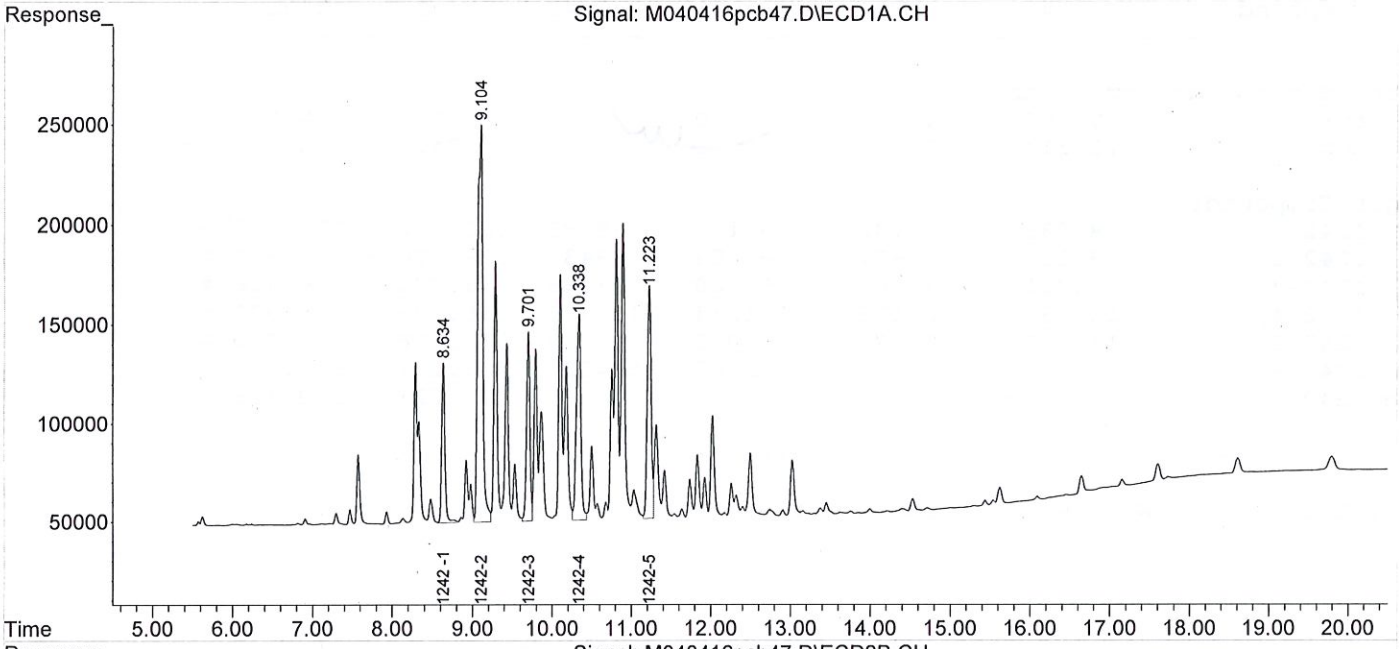
4/11/16

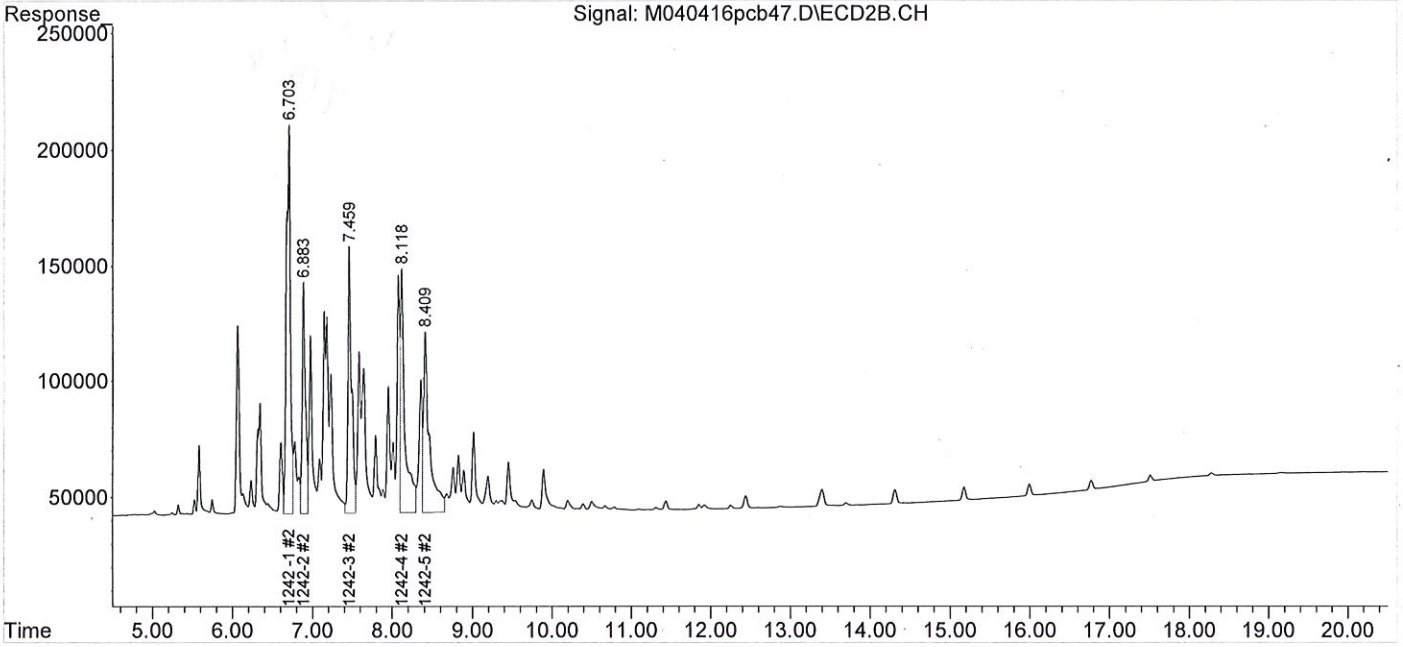
Quantitation Report (Not Reviewed)

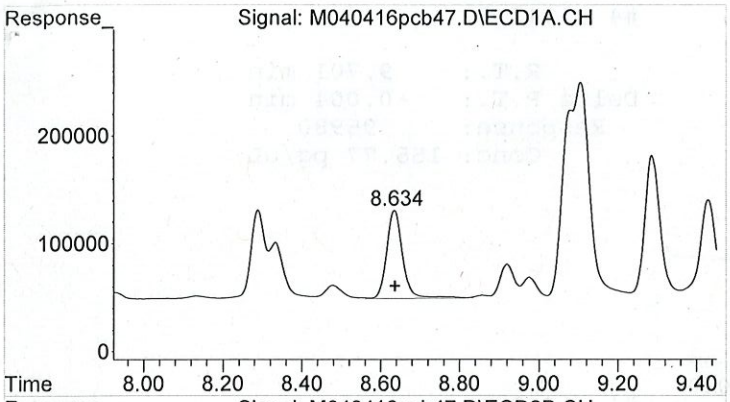
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb47.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:43 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:33 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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

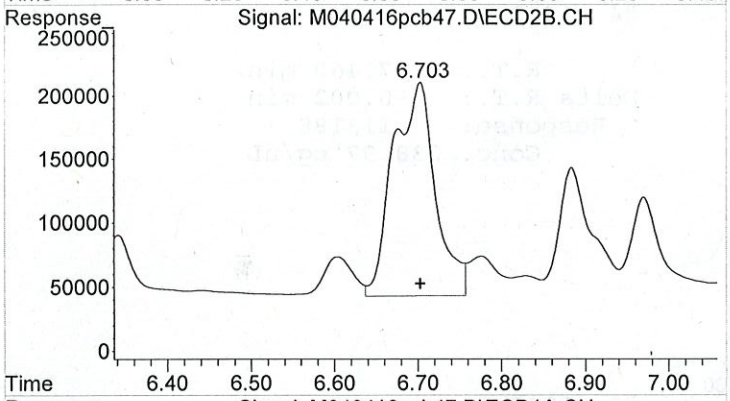






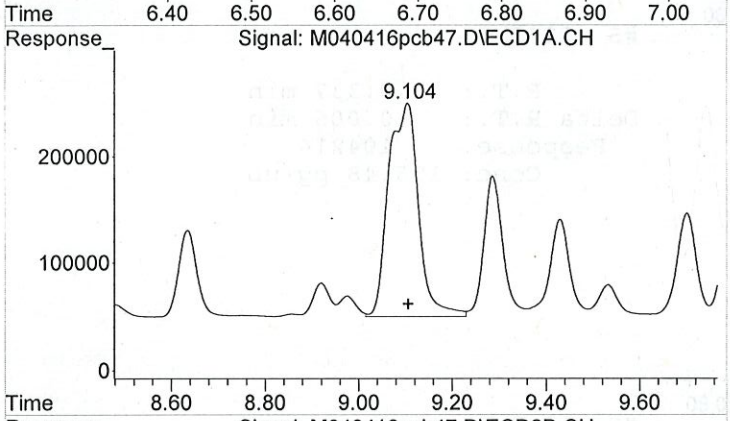
#2 1242 -1

R.T.: 8.635 min
Delta R.T.: -0.002 min
Response: 81107
Conc: 100.37 pg/uL



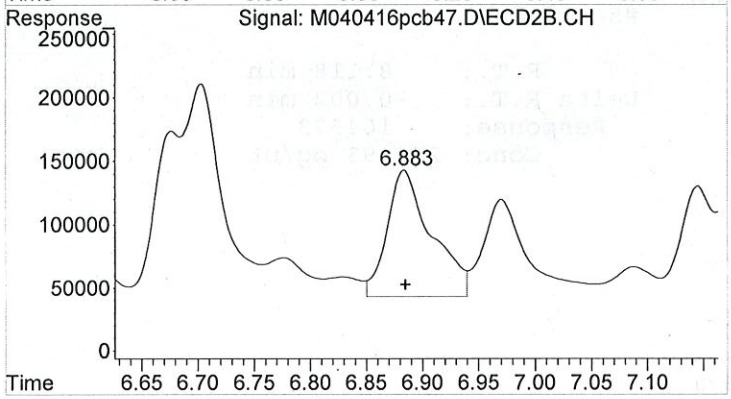
#2 1242 -1

R.T.: 6.702 min
Delta R.T.: -0.001 min
Response: 168885
Conc: 178.67 pg/uL



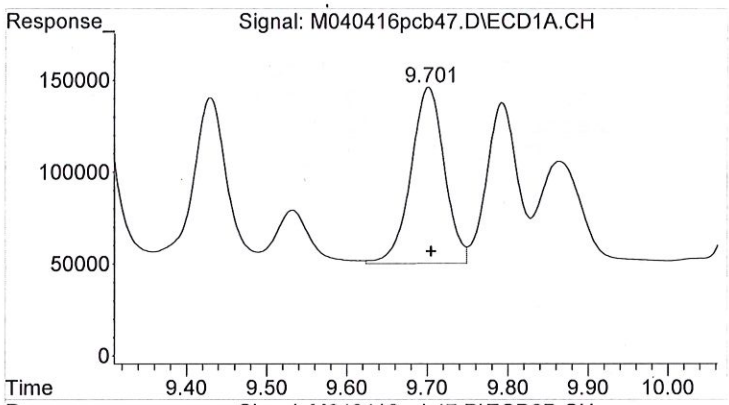
#3 1242-2

R.T.: 9.099 min
Delta R.T.: -0.008 min
Response: 193053
Conc: 119.37 pg/uL



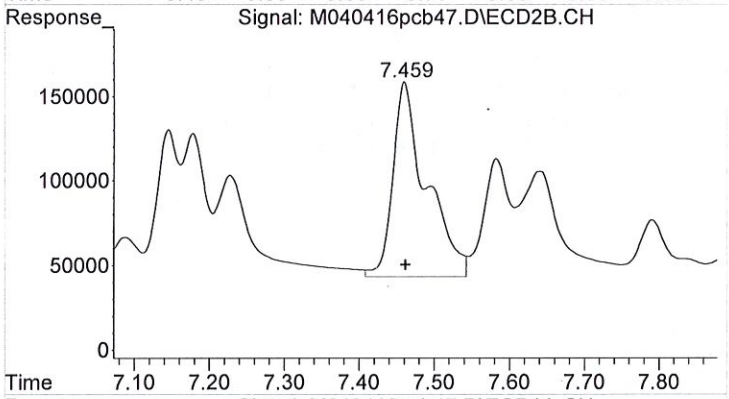
#3 1242-2

R.T.: 6.884 min
Delta R.T.: 0.000 min
Response: 99439
Conc: 182.96 pg/uL



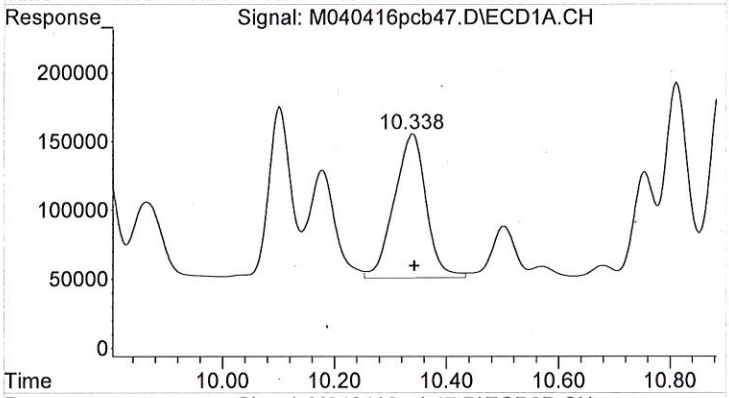
#4 1242-3

R.T.: 9.701 min
Delta R.T.: -0.004 min
Response: 95980
Conc: 155.77 pg/uL



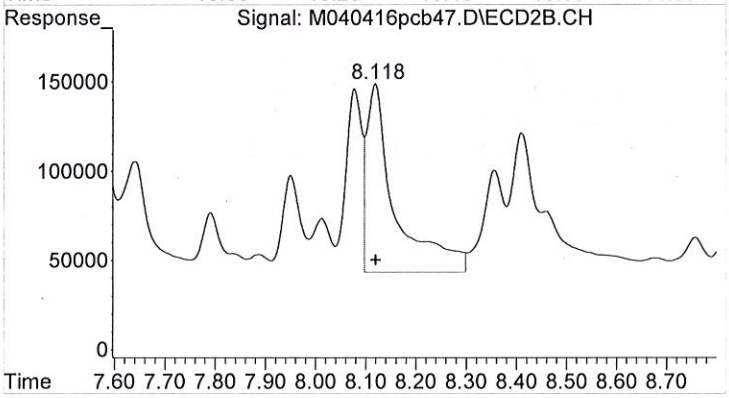
#4 1242-3

R.T.: 7.460 min
Delta R.T.: -0.002 min
Response: 113188
Conc: 238.97 pg/uL



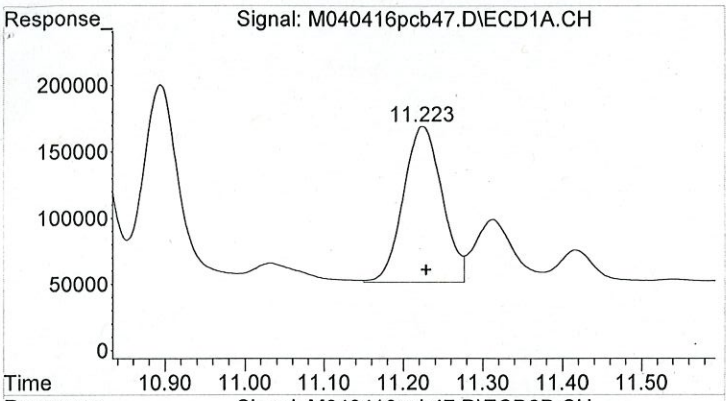
#5 1242-4

R.T.: 10.337 min
Delta R.T.: -0.006 min
Response: 104214
Conc: 156.48 pg/uL



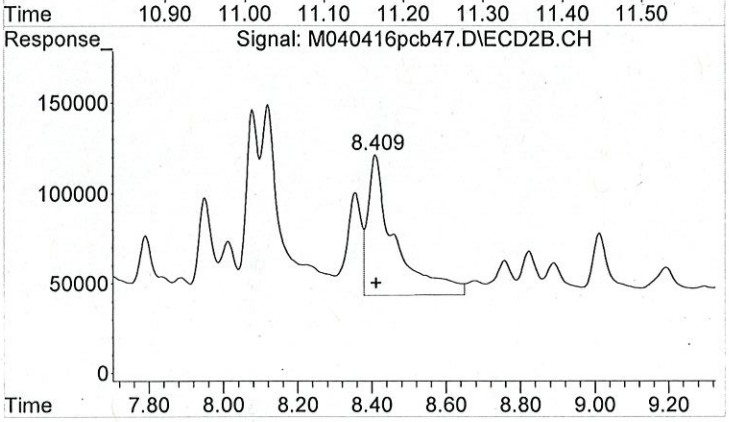
#5 1242-4

R.T.: 8.118 min
Delta R.T.: -0.002 min
Response: 104973
Conc: 246.93 pg/uL



#6 1242-5

R.T.: 11.225 min
Delta R.T.: -0.004 min
Response: 118011
Conc: 171.11 pg/uL



#6 1242-5

R.T.: 8.410 min
Delta R.T.: -0.002 min
Response: 77737
Conc: 254.07 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 9:02 am
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 76 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:03:01 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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	13.665	0	5948	N.D.	N.D.
Target Compounds						
2) L1 1016 -1	0.000	5.558	0	4300	N.D.	0.451 #
3) L1 1016-2	8.652	0.000	713	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	9.406	0.000	1162	0	N.D.	N.D.
6) L1 1016-5	10.071	0.000	4216	0	N.D.	N.D.
Sum 1016 -1			0	4300	N.D.	0.451
Average 1016 -1					0.000	0.451
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	9.699	0	14593	N.D.	6.779 #
9) L2 1260-3	0.000	10.154	0	13013	N.D.	9.714 #
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	0.000	11.848f	0	1463	N.D.	N.D.
Sum 1260-1			0	27605	N.D.	13.377
Average 1260-1					0.000	6.689

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

4/14/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 12:30 pm
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 76 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:04:03 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
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	5.022	0	295	N.D.	N.D.	
12)	S2 dcb	17.761	0.000	27880	0	0.550	N.D.	#
	Target Compounds							
2)	L1 1016 -1	0.000	0.000	0	0	N.D.	N.D.	
3)	L1 1016-2	0.000	6.093	0	501	N.D.	N.D.	
4)	L1 1016-3	0.000	0.000	0	0	N.D.	N.D.	
5)	L1 1016-4	0.000	6.872	0	291	N.D.	N.D.	
6)	L1 1016-5	10.057	0.000	4628	0	N.D.	N.D.	
	Sum 1016 -1			0	0	N.D.	N.D.	
	Average 1016 -1					0.000	0.000	
7)	L2 1260-1	0.000	9.342	0	2095	N.D.	N.D.	
8)	L2 1260-2	0.000	9.720	0	350	N.D.	N.D.	
9)	L2 1260-3	0.000	0.000	0	0	N.D.	N.D.	
10)	L2 1260-4	0.000	0.000	0	0	N.D.	N.D.	
11)	L2 1260-5	0.000	0.000	0	0	N.D.	N.D.	
	Sum 1260-1			0	0	N.D.	N.D.	
	Average 1260-1					0.000	0.000	

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

4/14/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 13:54 pm
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 76 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:04:23 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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	0.000	0	0	N.D.	N.D.
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D.	N.D.
3) L1 1016-2	8.631	6.092	538	593	N.D.	N.D.
4) L1 1016-3	9.317	6.686	428	343	N.D.	N.D.
5) L1 1016-4	9.430	0.000	311	0	N.D.	N.D.
6) L1 1016-5	10.087	7.451	373	195	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	9.341	0	3364	N.D.	N.D.
8) L2 1260-2	0.000	9.719	0	352	N.D.	N.D.
9) L2 1260-3	0.000	10.215	0	192	N.D.	N.D.
10) L2 1260-4	0.000	11.345	0	151	N.D.	N.D.
11) L2 1260-5	14.759	0.000	252	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

4/14/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M041316PCBDW\
Data File : M041316pcb10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 13 Apr 2016 14:28 pm
Operator : DWOOD
Sample : Hexane
Misc : Hexane Blank
ALS Vial : 0 (Sig #1); 76 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 14 14:04:33 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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	5.022	0	403	N.D.	N.D.
12) S2 dcb	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D.	N.D.
3) L1 1016-2	8.632	6.091	485	656	N.D.	N.D.
4) L1 1016-3	9.316	6.678	473	309	N.D.	N.D.
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	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	9.341	0	4179	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	13.708f	0.000	382	0	N.D.	N.D.
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	14.757	0.000	217	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

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

4/14/16

- ~~MS/MSD~~ N/A
    a. Custom Recovery Summary Report, if available
    b. Quan Report (Quant – Generate Report – Summary)
    c. Graphics (@Cmd Line – Thumbnail)

- LCS/LCSD
    a. Custom Recovery Summary Report, if available
    b. Quan Report (Quant – Generate Report – Summary)
    c. Graphics (@Cmd Line –Thumbnail)

PCB QC Recovery Report

920033016B1
920033016L1
920033016L2

Matrix: 42 - Wipe

Sample ID	Filename	Date/Time Acquired	Initial Extracted Amount (mL)	Final Extract Volume (mL)	Spiking Std Concentration (ng/uL)	Spike Volume (uL)	Total Spike Amount per sample (ng)
920033016B1	M040416pcb26.D	04/04/2016 19:35	40	100	0	0	0
920033016L1	M040416pcb27.D	04/04/2016 20:10	40	10	40	50	2000
920033016L2	M040416pcb28.D	04/04/2016 20:45	40	10	40	50	2000

Data Paths

Reference...: J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\M040416pcb26.D
LCS or MS...: J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\M040416pcb27.D
LCSD or MSD.: J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\M040416pcb28.D

Compound Name	Ref. Amt ug	Spk1 Amt ug	ExpSpk1 Amt ug	Spk1 LCS/MS %Rec	Spk2 Amt ug	ExpSpk2 Amt ug	Spk2 LCSD/MSD %Rec	Recovery Limits %	RPD %
1016 Column 1	0	1.52	2.00	76%	1.51	2.00	76%	70-130	0.3
1016 Column 2	0	1.51	2.00	76%	1.52	2.00	76%	70-130	0.4
1260 Column 1	0	1.63	2.00	82%	1.64	2.00	82%	70-130	0.4
1260 Column 2	0	1.50	2.00	75%	1.56	2.00	78%	70-130	4

Laboratory control spiked sample recoveries are NOT corrected for the amount found in the reference (BL) sample.

Sample.....: 920033016L1
Data File....: M040416pcb27.D
Project.....: OCE-009A
Matrix.....: 42 - Wipe
Analyzed.....: 04/04/2016 20:10
Type.....: L1
Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M040416PCB.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\M040416pcb27.D

Date Prepped...: 3/30/2016
ICAL Date.....: 04/04/2016
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....:
Acq. Method: M040116PCBEXTBAKE.
ASEQ Number: 27

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response	Spike (pg)[1]	Amount (pg)[1]	Result	Units	Q
1	2.5	100	tmx (1)	6.96	6.97	1259170	50	36	72	%Rec	
12	2.5	100	dcb	17.73	17.74	850487	50	40	81	%Rec	
14	2.5	100	tmx (1) #2	5.04	5.04	1019250	50	38	76	%Rec	
25	2.5	100	dcb #2	13.70	13.70	650488	50	41	81	%Rec	
2	25	1000	1016 -1	8.29	8.29	138237	200	152	1.5	ug	
3	25	1000	1016-2	8.63	8.64	118391	200	149	1.5	ug	
4	25	1000	1016-3	9.29	9.29	154138	200	155	1.5	ug	
5	25	1000	1016-4	9.43	9.43	98438	200	147	1.5	ug	
6	25	1000	1016-5	10.10	10.11	116062	200	156	1.6	ug	
7	25	1000	1260-1	12.90	12.91	278263	200	161	1.6	ug	
8	25	1000	1260-2	13.45	13.45	276742	200	160	1.6	ug	
9	25	1000	1260-3	13.76	13.76	216821	200	166	1.7	ug	
10	25	1000	1260-4	14.21	14.22	208299	200	166	1.7	ug	
11	25	1000	1260-5	14.71	14.72	443552	200	163	1.6	ug	
15	25	1000	1016 -1 #2	5.58	5.58	73389	200	153	1.5	ug	
16	25	1000	1016-2 #2	6.06	6.07	119018	200	152	1.5	ug	
17	25	1000	1016-3 #2	6.70	6.70	162385	200	150	1.5	ug	
18	25	1000	1016-4 #2	6.88	6.89	93405	200	146	1.5	ug	
19	25	1000	1016-5 #2	7.46	7.46	85119	200	154	1.5	ug	
20	25	1000	1260-1 #2	9.30	9.30	144841	200	155	1.6	ug	
21	25	1000	1260-2 #2	9.74	9.74	200856	200	153	1.5	ug	
22	25	1000	1260-3 #2	10.20	10.20	151398	200	145	1.5	ug	
23	25	1000	1260-4 #2	11.31	11.31	269800	200	147	1.5	ug	
24	25	1000	1260-5 #2	11.79	11.80	131804	200	149	1.5	ug	

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
12674112	1016 Column 1	76	%Rec	5	2 %	
12674112	1016 Column 2	76	%Rec	5	2 %	0 %
11096825	1260 Column 1	82	%Rec	5	2 %	
11096825	1260 Column 2	75	%Rec	5	3 %	8 %

Results will be reported from Column 1

Note that avg results for LCS/MS samples do not reflect native amount adjustment.

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Apr 2016 8:10 pm
Operator : DWOOD
Sample : 920033016L1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 24 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:28:13 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.963	5.039	1259172	1019250	36.146	37.799
12) S2 dcb	17.731	13.700	850487	650488	40.434	40.689
Target Compounds						
2) L1 1016 -1	8.289	5.582	138237	73389	152.105	152.920
3) L1 1016-2	8.634	6.064	118391	119018	148.752	152.369
4) L1 1016-3	9.286	6.702	154138	162385	154.621	150.061
5) L1 1016-4	9.428	6.885	98438	93405	147.194	146.400
6) L1 1016-5	10.102	7.460	116062	85119	155.781	154.391
Sum 1016 -1			625266	533316	758.453	756.141
Average 1016 -1					151.691	151.228
7) L2 1260-1	12.904	9.298	278263	144841	160.801	155.423
8) L2 1260-2	13.450	9.743	276742	200856	159.959	153.054
9) L2 1260-3	13.758	10.195	216821	151398	166.067	145.415
10) L2 1260-4	14.214	11.311	208299	269800	165.826	147.006
11) L2 1260-5	14.710	11.791	443552	131804	162.619	149.428
Sum 1260-1			1423677	898700	815.273	750.325
Average 1260-1					163.055	150.065

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

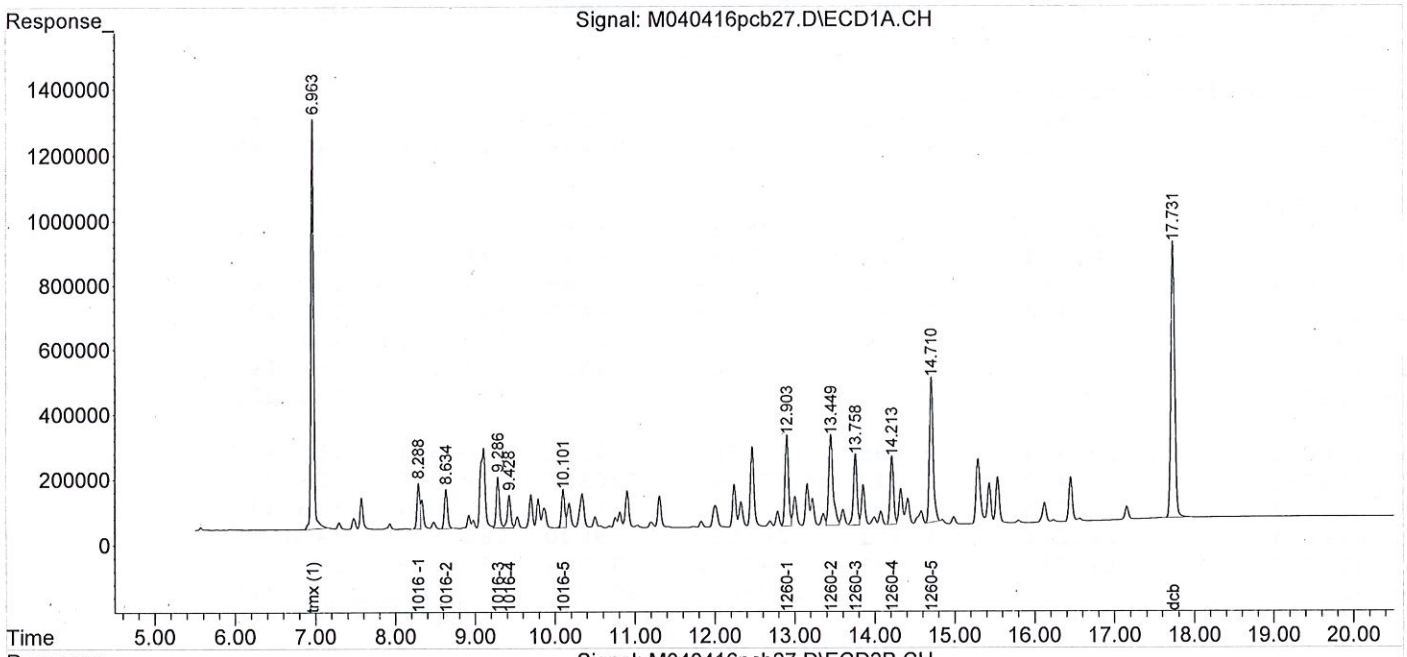
4/6/16

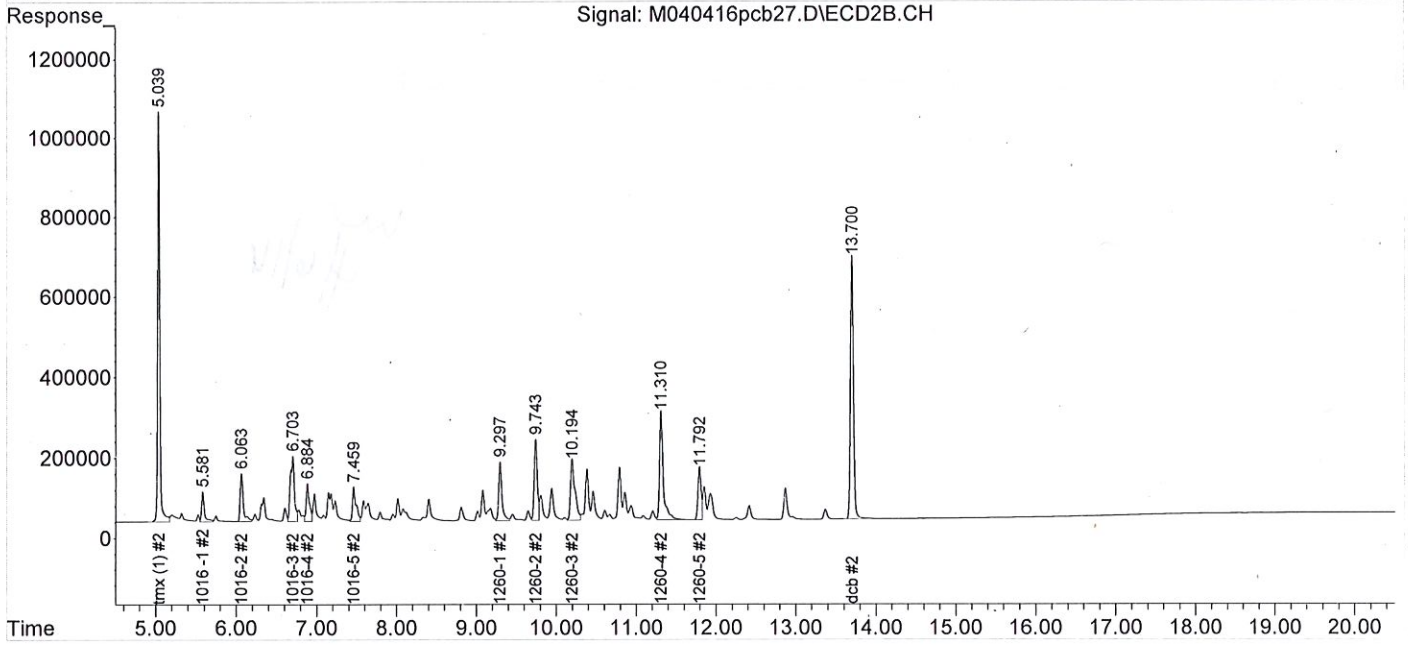
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Apr 2016 8:10 pm
Operator : DWOOD
Sample : 920033016L1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 24 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:28:13 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Apr 2016 8:10 pm
Operator : DWOOD
Sample : 920033016L1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 24 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:28:13 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.963	5.039	1259172	1019250	36.146	37.799
12)	S2 dcb	17.731	13.700	850487	650488	40.434	40.689
	Target Compounds						
2)	L1 1016 -1	8.289	5.582	138237	73389	152.105	152.920
3)	L1 1016-2	8.634	6.064	118391	119018	148.752	152.369
4)	L1 1016-3	9.286	6.702	154138	162385	154.621	150.061
5)	L1 1016-4	9.428	6.885	98438	93405	147.194	146.400
6)	L1 1016-5	10.102	7.460	116062	85119	155.781	154.391
	Sum 1016 -1			625266	533316	758.453	756.141
	Average 1016 -1					151.691	151.228
7)	L2 1260-1	12.904	9.298	278263	144841	160.801	155.423
8)	L2 1260-2	13.450	9.743	276742	200856	159.959	153.054
9)	L2 1260-3	13.758	10.195	216821	151398	166.067	145.415
10)	L2 1260-4	14.214	11.311	208299	269800	165.826	147.006
11)	L2 1260-5	14.710	11.791	443552	131804	162.619	149.428
	Sum 1260-1			1423677	898700	815.273	750.325
	Average 1260-1					163.055	150.065

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

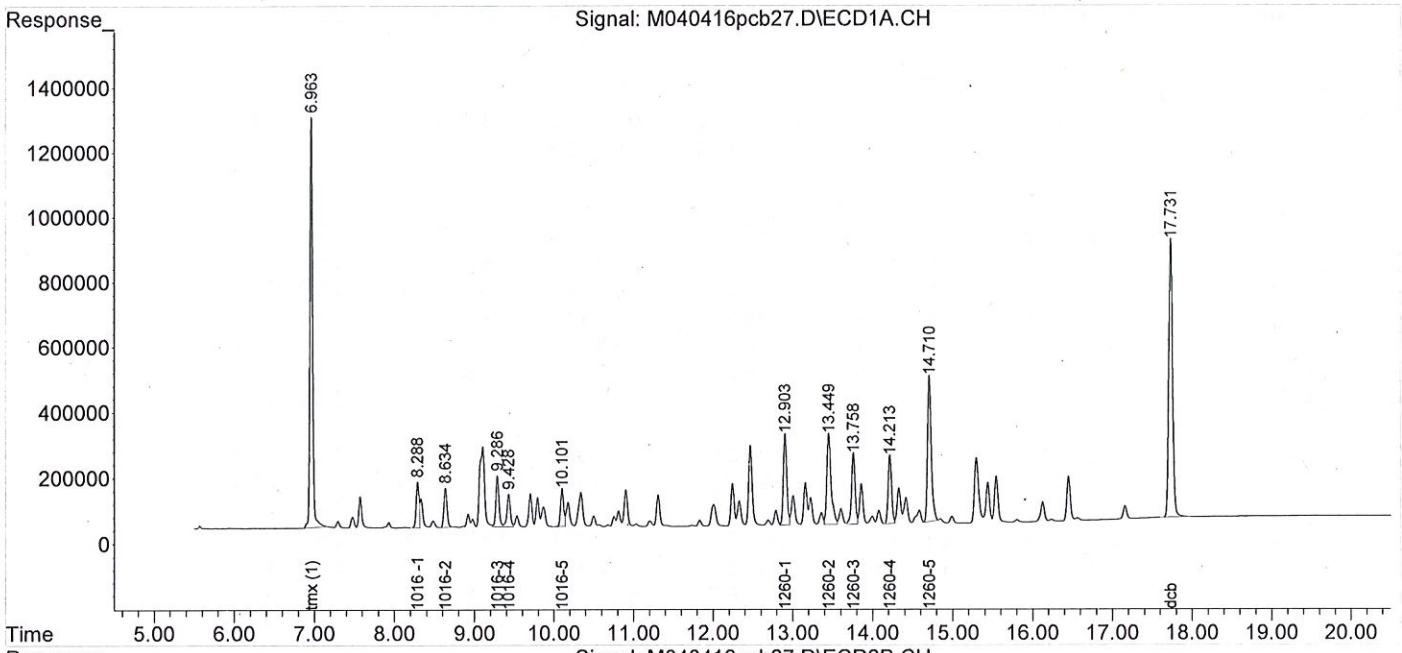
4/6/16

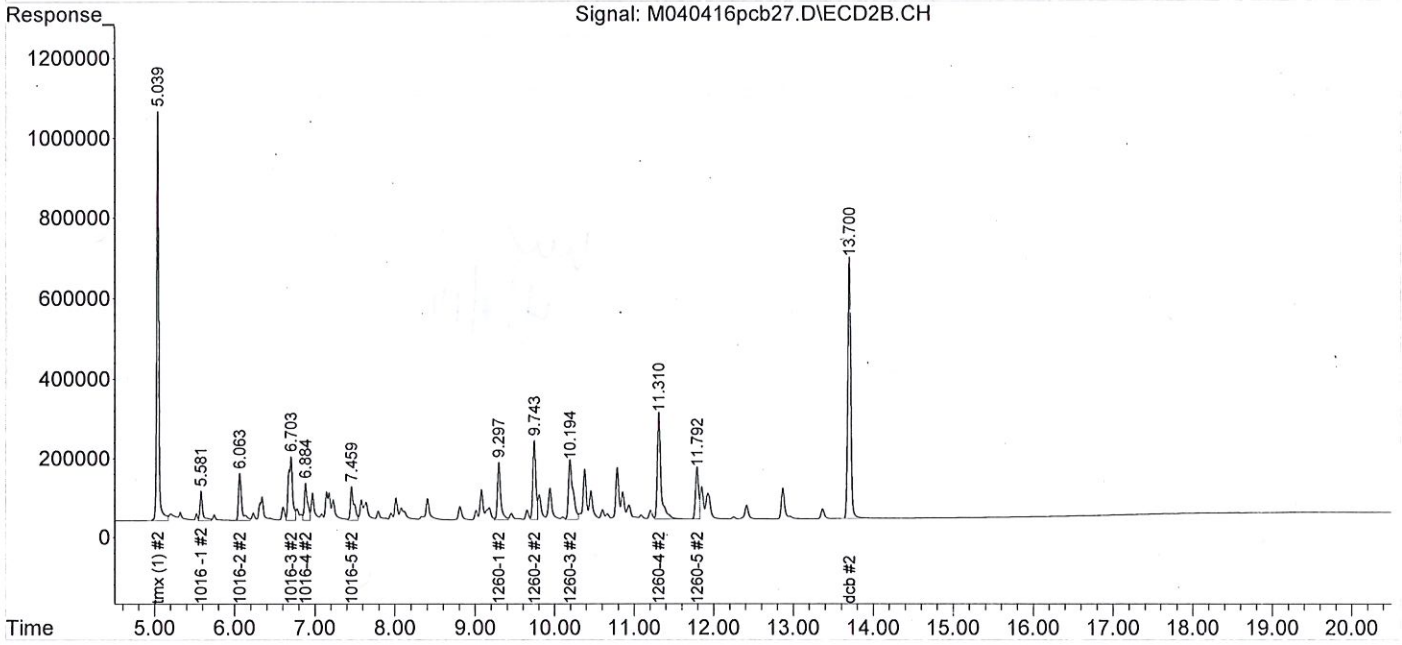
Quantitation Report (Not Reviewed)

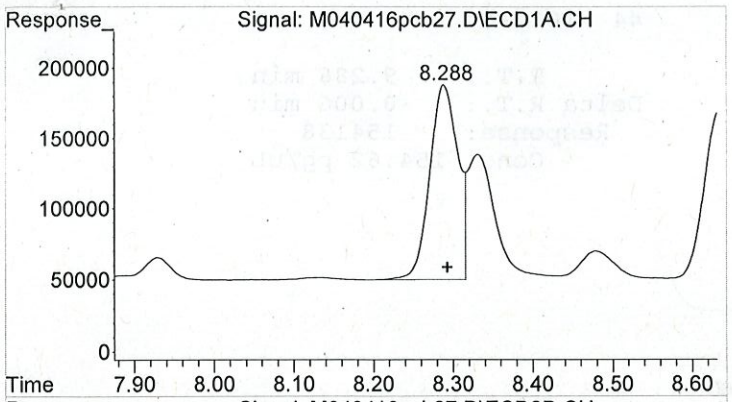
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb27.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Apr 2016 8:10 pm
Operator : DWOOD
Sample : 920033016L1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 24 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:28:13 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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

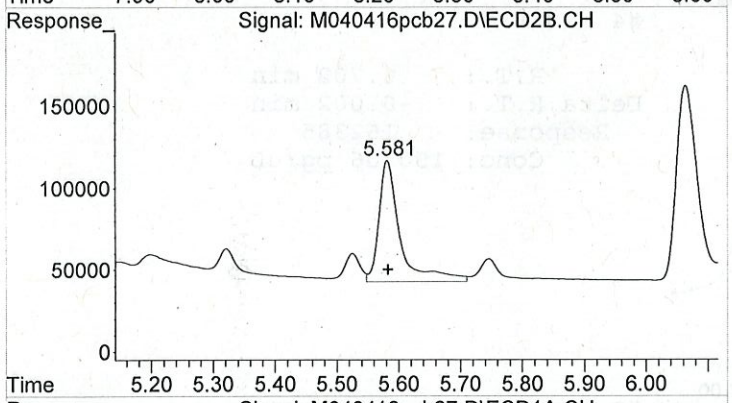






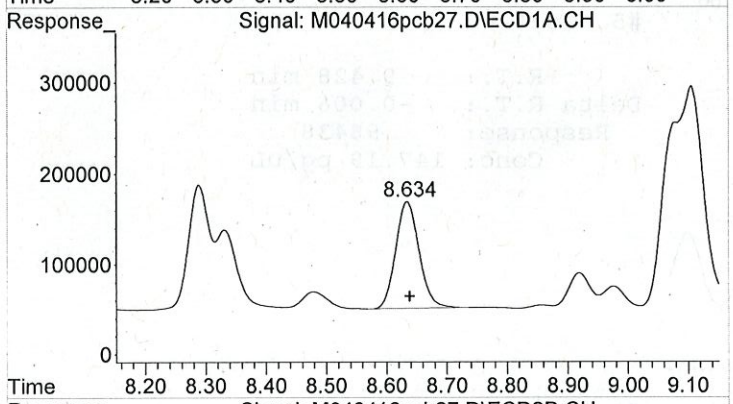
#2 1016 -1

R.T.: 8.289 min
Delta R.T.: -0.004 min
Response: 138237
Conc: 152.11 pg/uL



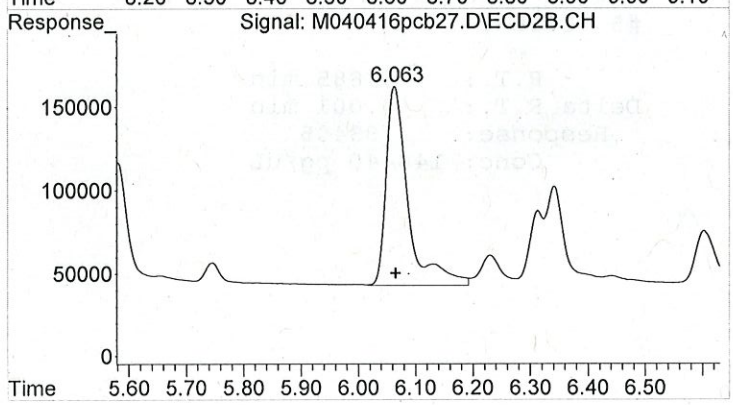
#2 1016 -1

R.T.: 5.582 min
Delta R.T.: 0.000 min
Response: 73389
Conc: 152.92 pg/uL



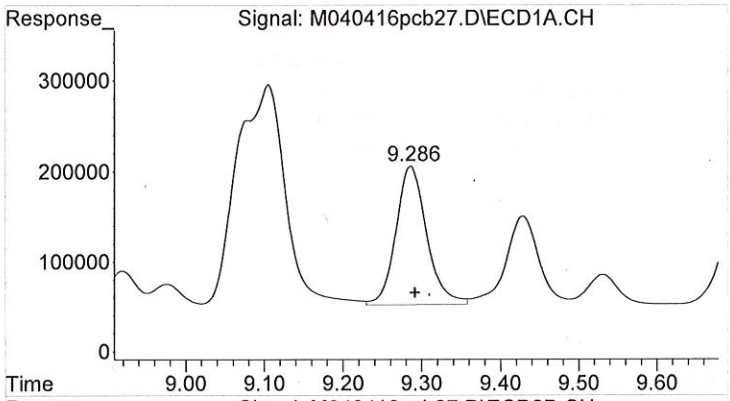
#3 1016-2

R.T.: 8.634 min
Delta R.T.: -0.005 min
Response: 118391
Conc: 148.75 pg/uL



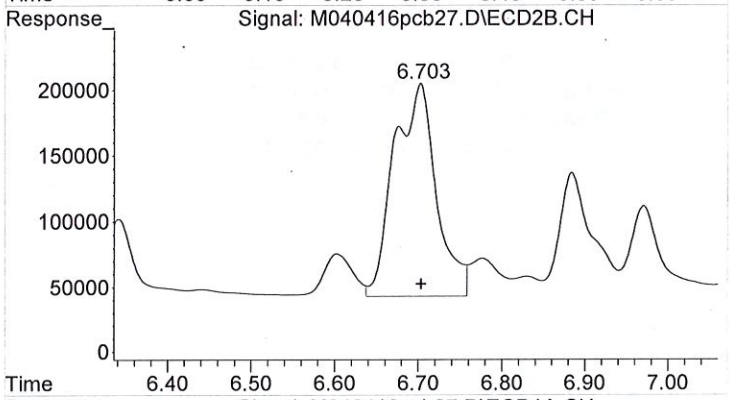
#3 1016-2

R.T.: 6.064 min
Delta R.T.: -0.002 min
Response: 119018
Conc: 152.37 pg/uL



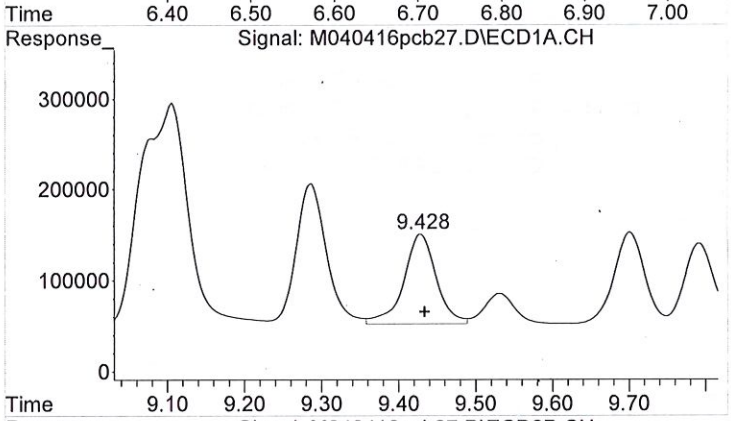
#4 1016-3

R.T.: 9.286 min
Delta R.T.: -0.006 min
Response: 154138
Conc: 154.62 pg/uL



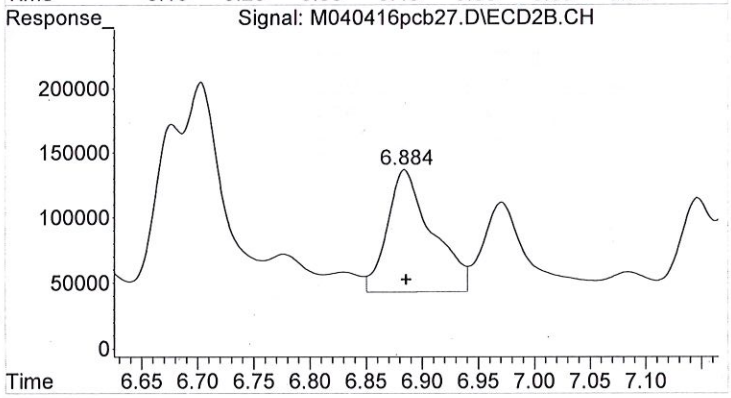
#4 1016-3

R.T.: 6.702 min
Delta R.T.: -0.002 min
Response: 162385
Conc: 150.06 pg/uL



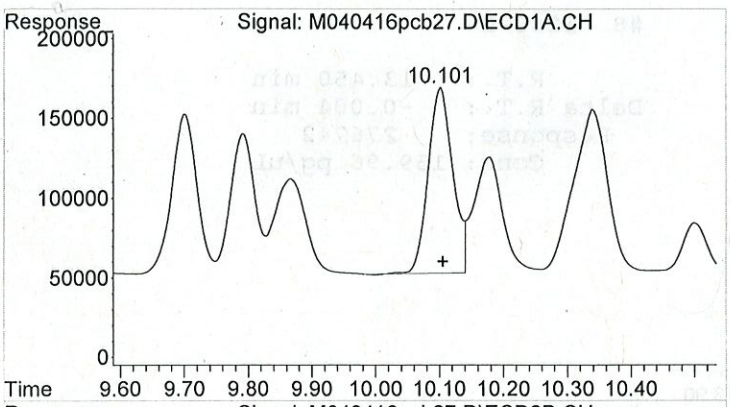
#5 1016-4

R.T.: 9.428 min
Delta R.T.: -0.006 min
Response: 98438
Conc: 147.19 pg/uL



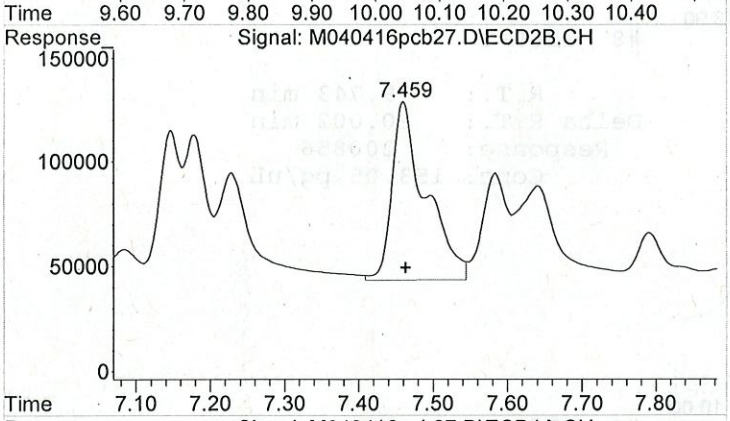
#5 1016-4

R.T.: 6.885 min
Delta R.T.: -0.001 min
Response: 93405
Conc: 146.40 pg/uL



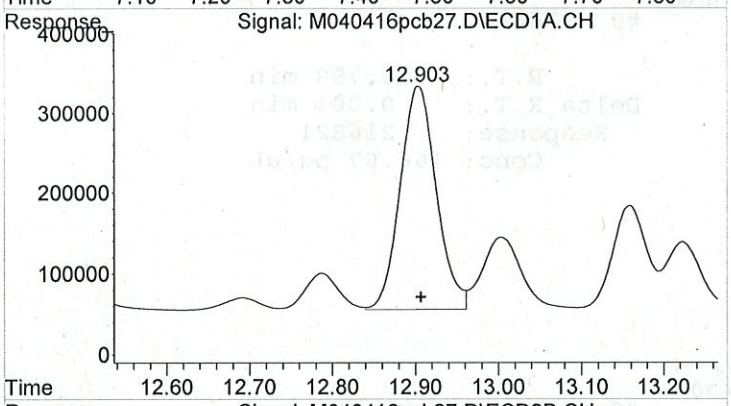
#6 1016-5

R.T.: 10.102 min
Delta R.T.: -0.004 min
Response: 116062
Conc: 155.78 pg/uL



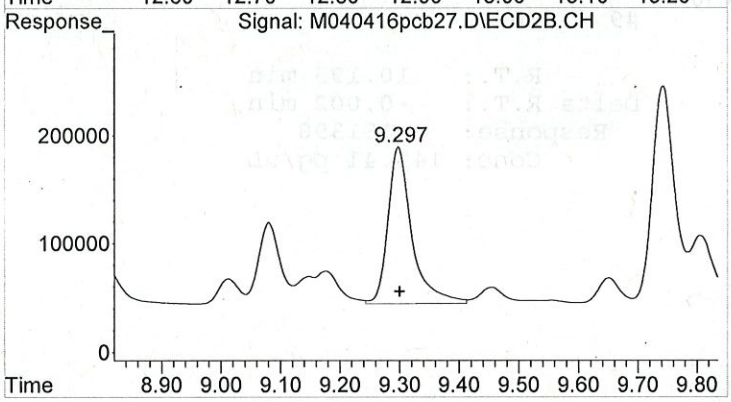
#6 1016-5

R.T.: 7.460 min
Delta R.T.: -0.003 min
Response: 85119
Conc: 154.39 pg/uL



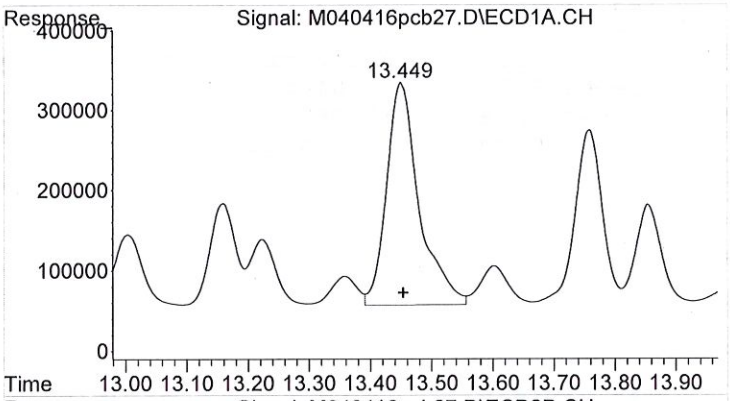
#7 1260-1

R.T.: 12.904 min
Delta R.T.: -0.003 min
Response: 278263
Conc: 160.80 pg/uL



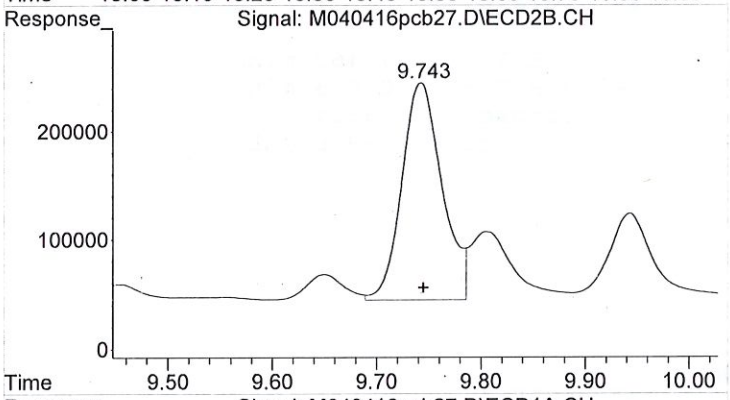
#7 1260-1

R.T.: 9.298 min
Delta R.T.: -0.002 min
Response: 144841
Conc: 155.42 pg/uL



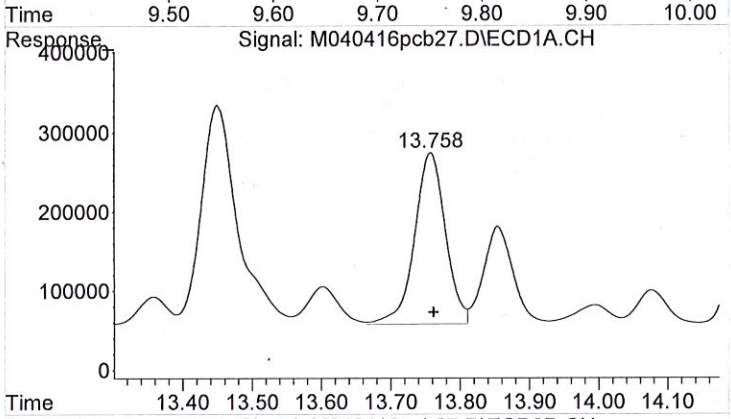
#8 1260-2

R.T.: 13.450 min
Delta R.T.: -0.004 min
Response: 276742
Conc: 159.96 pg/uL



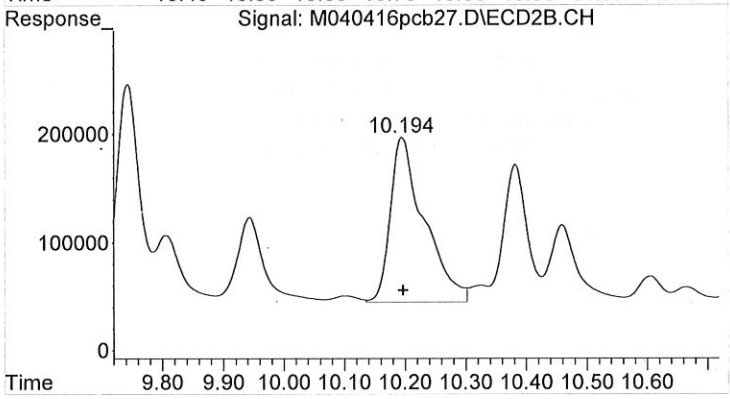
#8 1260-2

R.T.: 9.743 min
Delta R.T.: -0.002 min
Response: 200856
Conc: 153.05 pg/uL



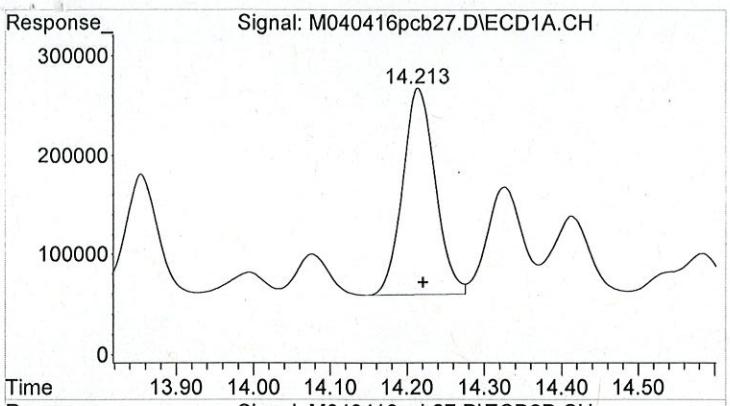
#9 1260-3

R.T.: 13.758 min
Delta R.T.: -0.004 min
Response: 216821
Conc: 166.07 pg/uL



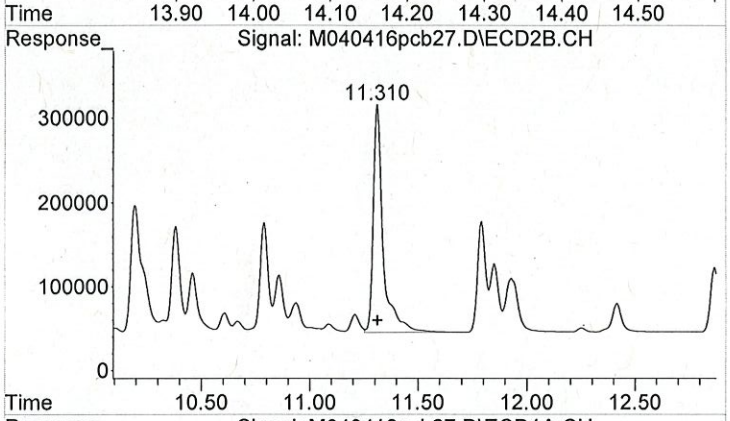
#9 1260-3

R.T.: 10.195 min
Delta R.T.: -0.002 min
Response: 151398
Conc: 145.41 pg/uL



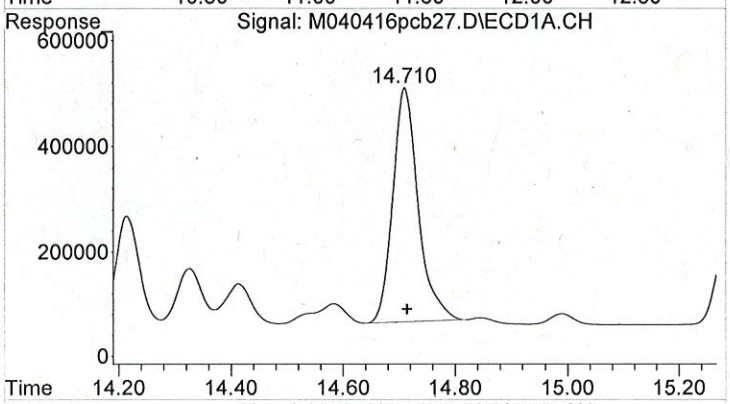
#10 1260-4

R.T.: 14.214 min
Delta R.T.: -0.007 min
Response: 208299
Conc: 165.83 pg/uL



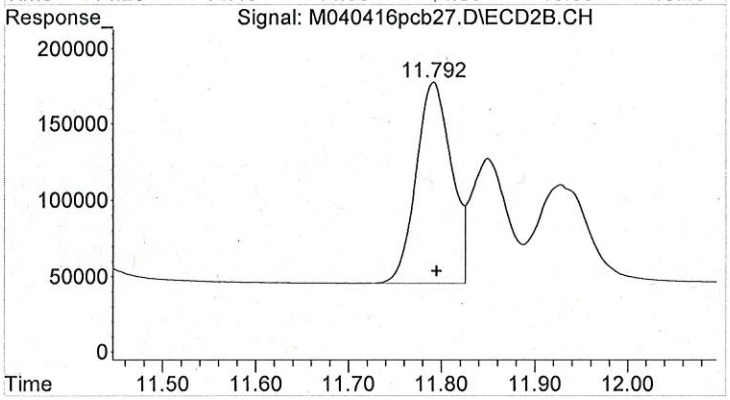
#10 1260-4

R.T.: 11.311 min
Delta R.T.: -0.002 min
Response: 269800
Conc: 147.01 pg/uL



#11 1260-5

R.T.: 14.710 min
Delta R.T.: -0.005 min
Response: 443552
Conc: 162.62 pg/uL



#11 1260-5

R.T.: 11.791 min
Delta R.T.: -0.004 min
Response: 131804
Conc: 149.43 pg/uL

PCB Sample Results Summary

Sample.....: 920033016L2
Data File....: M040416pcb28.D
Project.....: OCE-009A
Matrix.....: 42 - Wipe
Analyzed.....: 04/04/2016 20:45
Type.....: L2

Date Prepped...: 3/30/2016
ICAL Date.....: 04/04/2016
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....:
Acq. Method: M040116PCBEXTBAKE.
ASEQ Number: 28

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M040416PCB.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\M040416pcb28.D

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response	Spike (pg)[1]	Amount (pg)[1]	Result	Units	Q
1	2.5	100	tmx (1)	6.96	6.97	1129340	50	32	65	%Rec	
12	2.5	100	dcb	17.73	17.74	804026	50	38	76	%Rec	
14	2.5	100	tmx (1) #2	5.04	5.04	901030	50	33	67	%Rec	
25	2.5	100	dcb #2	13.70	13.70	662593	50	41	83	%Rec	
2	25	1000	1016 -1	8.29	8.29	137199	200	151	1.5	ug	
3	25	1000	1016-2	8.64	8.64	119741	200	151	1.5	ug	
4	25	1000	1016-3	9.29	9.29	150114	200	150	1.5	ug	
5	25	1000	1016-4	9.43	9.43	99661	200	149	1.5	ug	
6	25	1000	1016-5	10.10	10.11	115921	200	156	1.6	ug	
7	25	1000	1260-1	12.90	12.91	285710	200	165	1.7	ug	
8	25	1000	1260-2	13.45	13.45	277391	200	160	1.6	ug	
9	25	1000	1260-3	13.76	13.76	217093	200	166	1.7	ug	
10	25	1000	1260-4	14.22	14.22	205460	200	163	1.6	ug	
11	25	1000	1260-5	14.71	14.72	445071	200	163	1.6	ug	
15	25	1000	1016 -1 #2	5.58	5.58	73644	200	153	1.5	ug	
16	25	1000	1016-2 #2	6.06	6.07	119007	200	152	1.5	ug	
17	25	1000	1016-3 #2	6.70	6.70	163767	200	151	1.5	ug	
18	25	1000	1016-4 #2	6.88	6.89	94405	200	148	1.5	ug	
19	25	1000	1016-5 #2	7.46	7.46	84766	200	154	1.5	ug	
20	25	1000	1260-1 #2	9.30	9.30	148094	200	159	1.6	ug	
21	25	1000	1260-2 #2	9.74	9.74	206598	200	158	1.6	ug	
22	25	1000	1260-3 #2	10.20	10.20	158325	200	152	1.5	ug	
23	25	1000	1260-4 #2	11.31	11.31	284976	200	155	1.6	ug	
24	25	1000	1260-5 #2	11.79	11.80	136270	200	155	1.5	ug	

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]	
12674112	1016 Column 1	76	%Rec	5	2 %		Results will be reported from Column 1
12674112	1016 Column 2	76	%Rec	5	2 %	0 %	
11096825	1260 Column 1	82	%Rec	5	1 %		Note that avg results for LCS/MS samples
11096825	1260 Column 2	78	%Rec	5	2 %	5 %	do not reflect native amount adjustment.

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

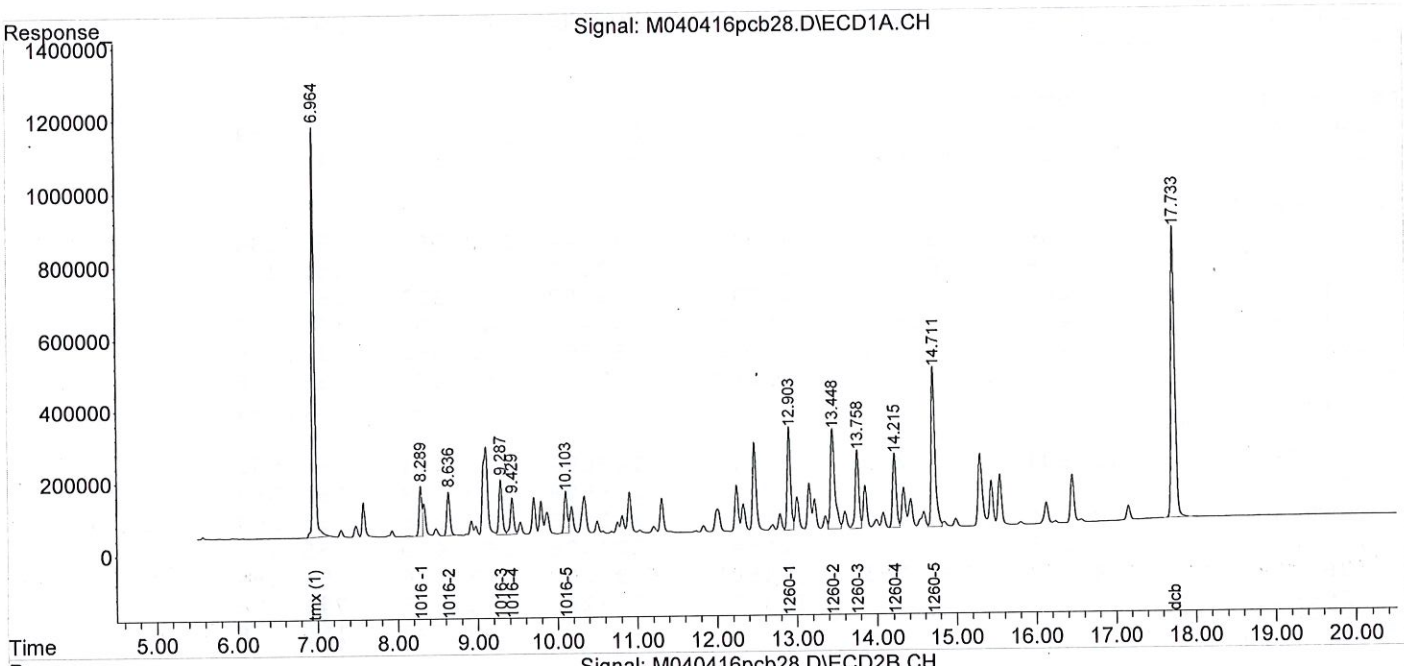
Quantitation Report (Not Reviewed)

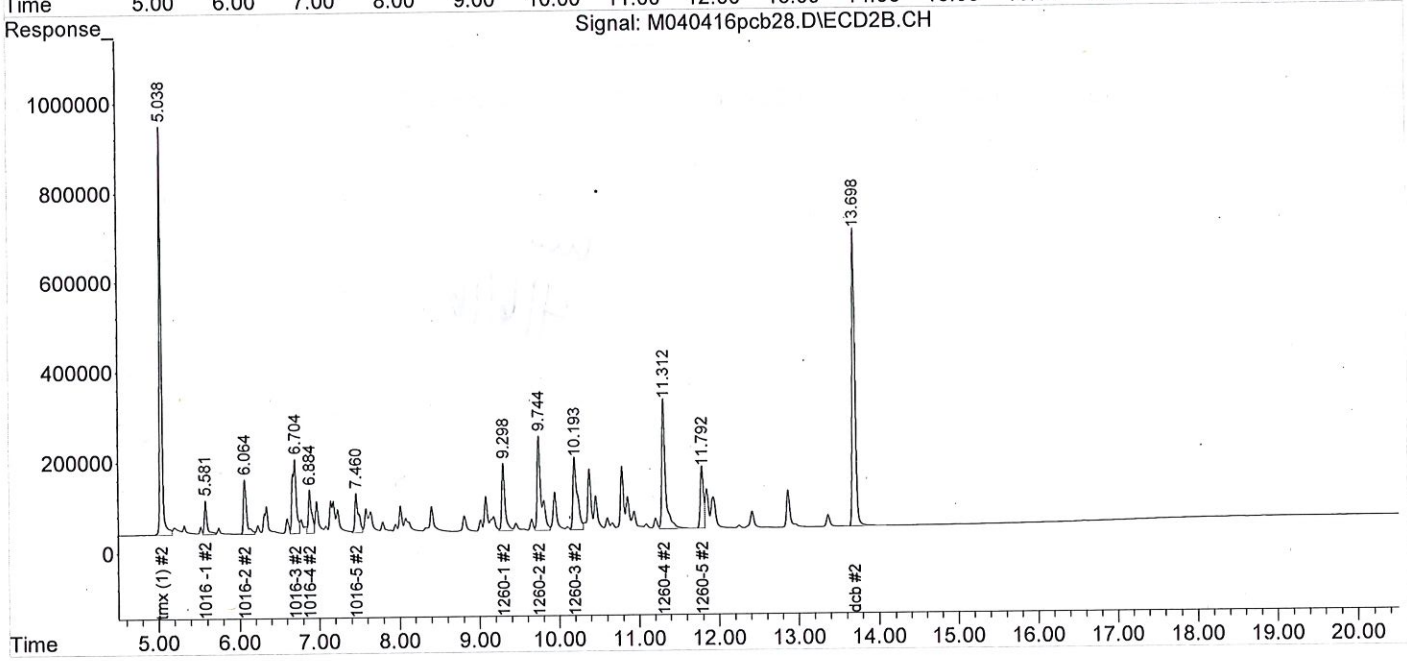
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb28.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Apr 2016 8:45 pm
Operator : DWOOD
Sample : 92O033016L2
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 25 (Sig #2) Sample Multiplier: 1

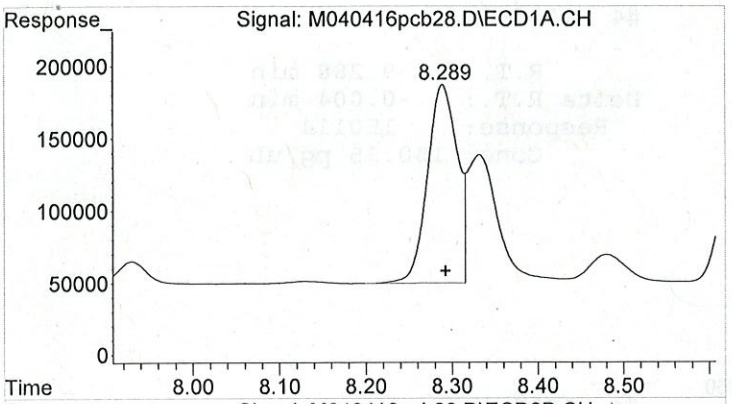
Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:28:17 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

Signal #2 Phase: CLPest2
Signal #2 Info : .32

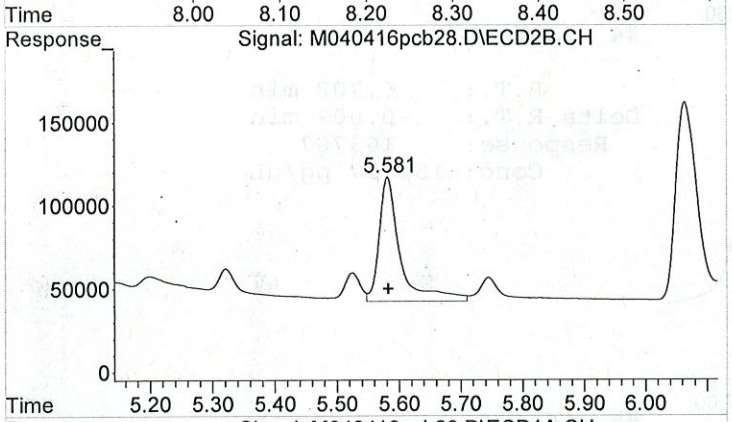






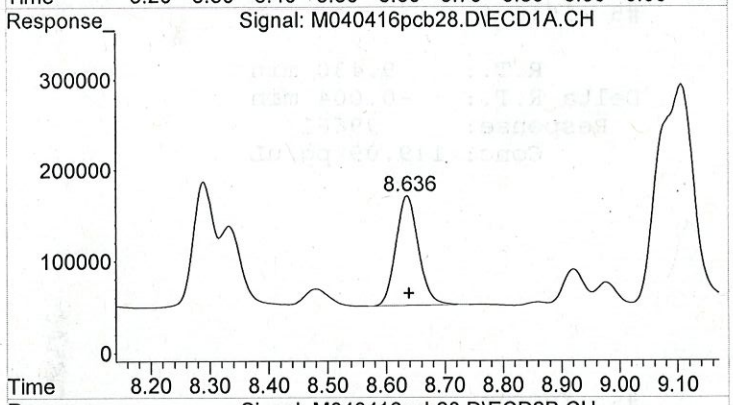
#2 1016 -1

R.T.: 8.289 min
Delta R.T.: -0.004 min
Response: 137199
Conc: 150.88 pg/uL



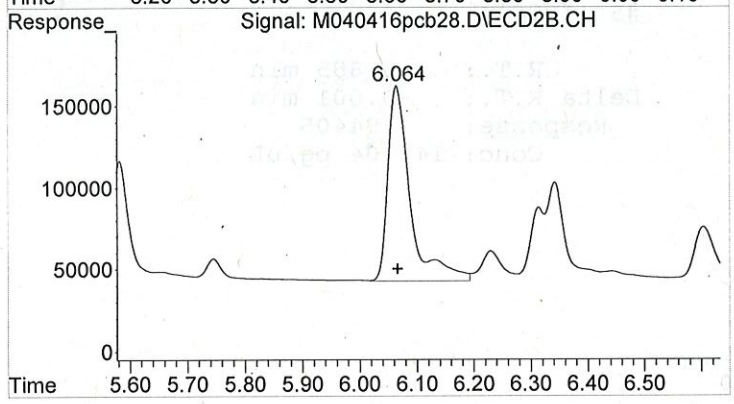
#2 1016 -1

R.T.: 5.582 min
Delta R.T.: 0.000 min
Response: 73644
Conc: 153.48 pg/uL



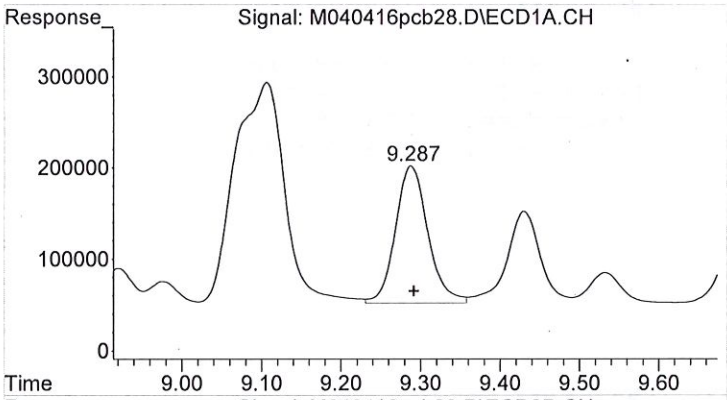
#3 1016-2

R.T.: 8.636 min
Delta R.T.: -0.003 min
Response: 119741
Conc: 150.56 pg/uL



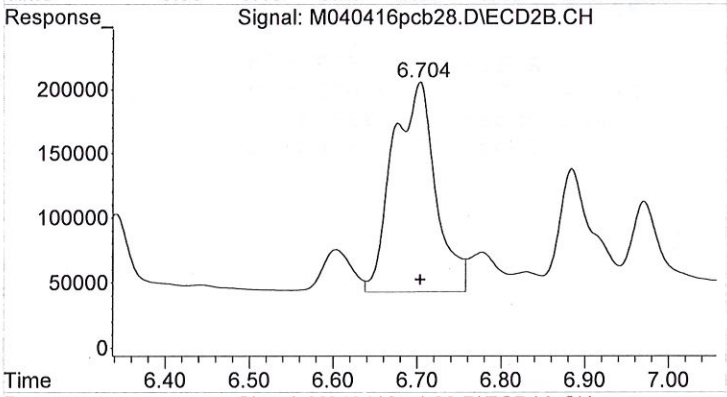
#3 1016-2

R.T.: 6.065 min
Delta R.T.: -0.001 min
Response: 119007
Conc: 152.35 pg/uL



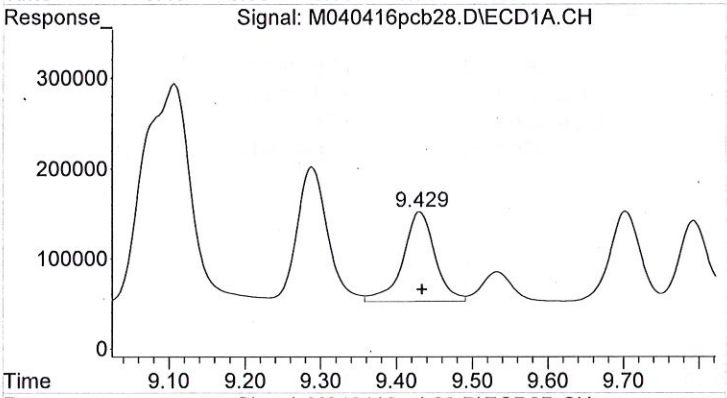
#4 1016-3

R.T.: 9.288 min
Delta R.T.: -0.004 min
Response: 150114
Conc: 150.35 pg/uL



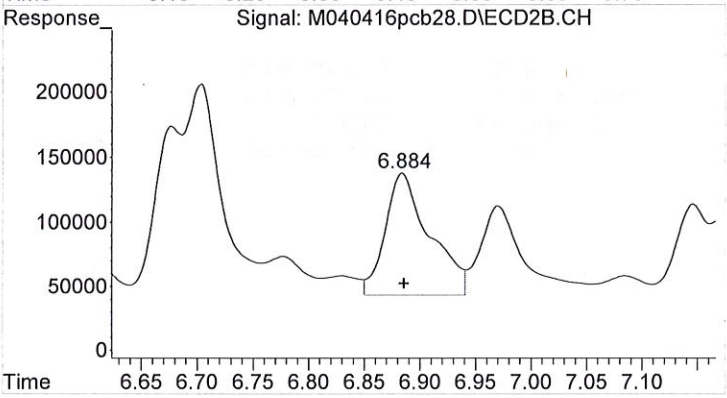
#4 1016-3

R.T.: 6.702 min
Delta R.T.: -0.002 min
Response: 163767
Conc: 151.37 pg/uL



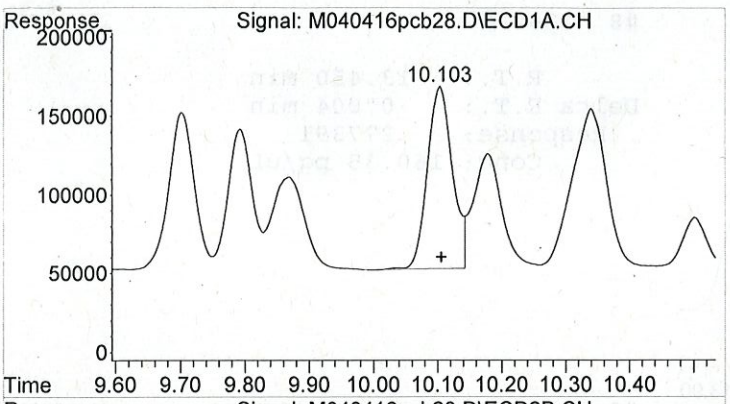
#5 1016-4

R.T.: 9.430 min
Delta R.T.: -0.004 min
Response: 99661
Conc: 149.09 pg/uL



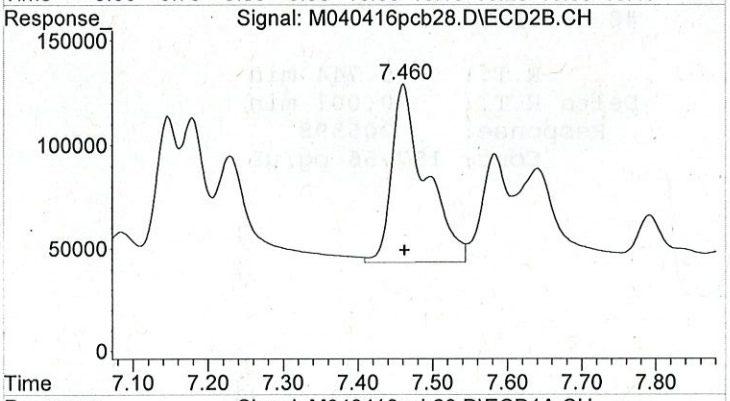
#5 1016-4

R.T.: 6.885 min
Delta R.T.: -0.001 min
Response: 94405
Conc: 148.04 pg/uL



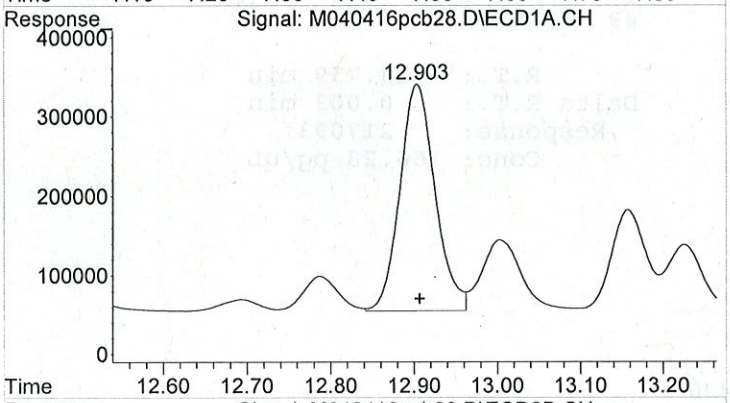
#6 1016-5

R.T.: 10.104 min
Delta R.T.: -0.002 min
Response: 115921
Conc: 155.58 pg/uL



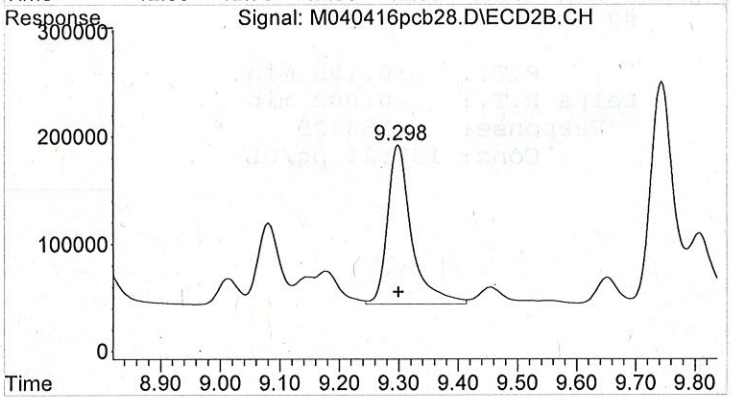
#6 1016-5

R.T.: 7.461 min
Delta R.T.: -0.002 min
Response: 84766
Conc: 153.73 pg/uL



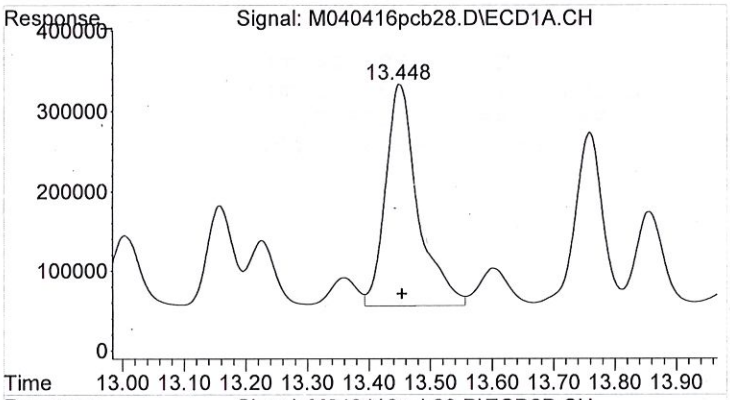
#7 1260-1

R.T.: 12.904 min
Delta R.T.: -0.003 min
Response: 285710
Conc: 165.34 pg/uL



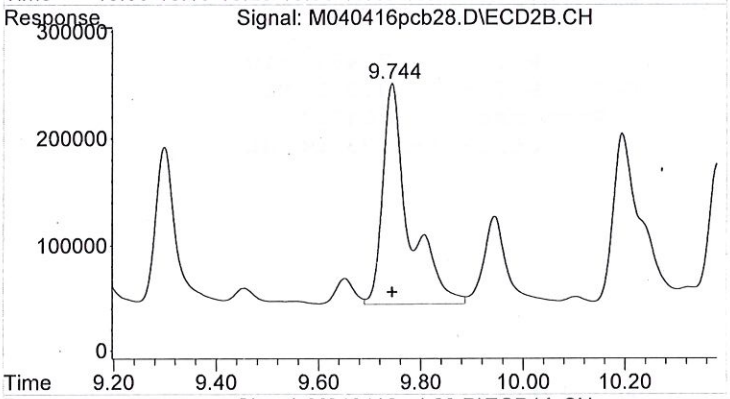
#7 1260-1

R.T.: 9.299 min
Delta R.T.: -0.001 min
Response: 148094
Conc: 159.06 pg/uL



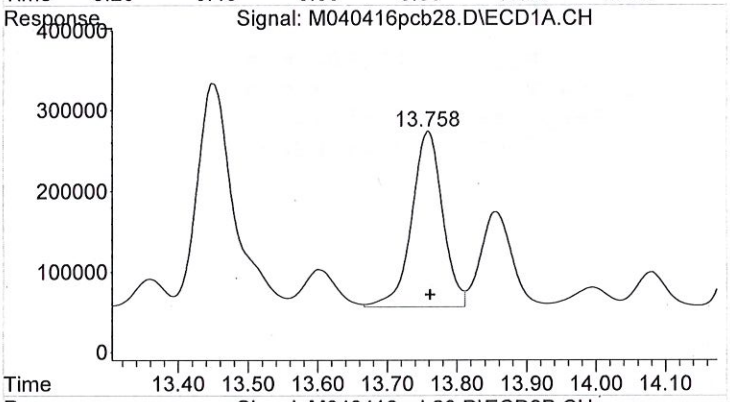
#8 1260-2

R.T.: 13.450 min
Delta R.T.: -0.004 min
Response: 277391
Conc: 160.35 pg/uL



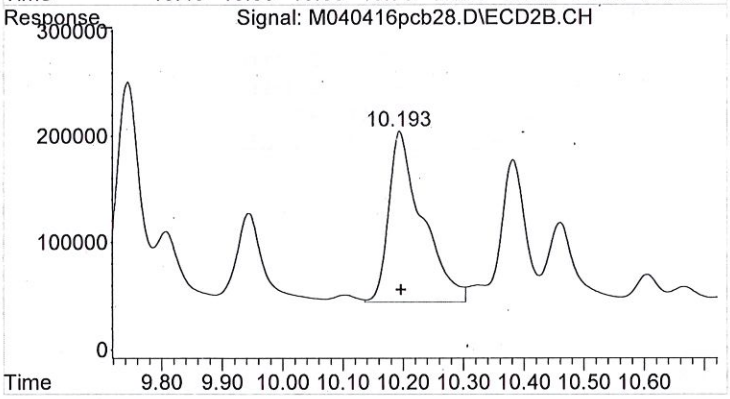
#8 1260-2

R.T.: 9.744 min
Delta R.T.: -0.001 min
Response: 206598
Conc: 157.56 pg/uL



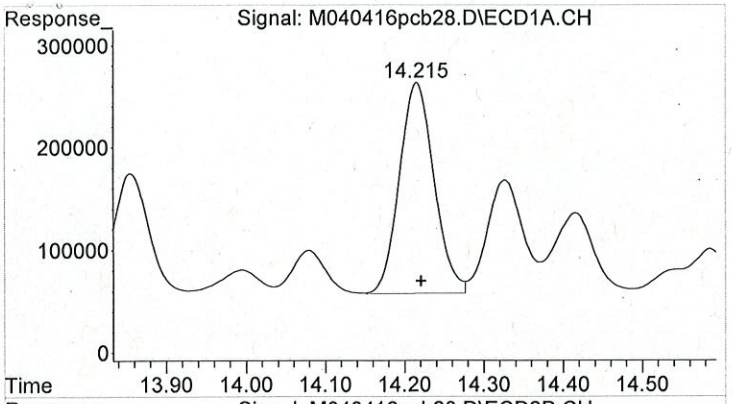
#9 1260-3

R.T.: 13.759 min
Delta R.T.: -0.003 min
Response: 217093
Conc: 166.28 pg/uL



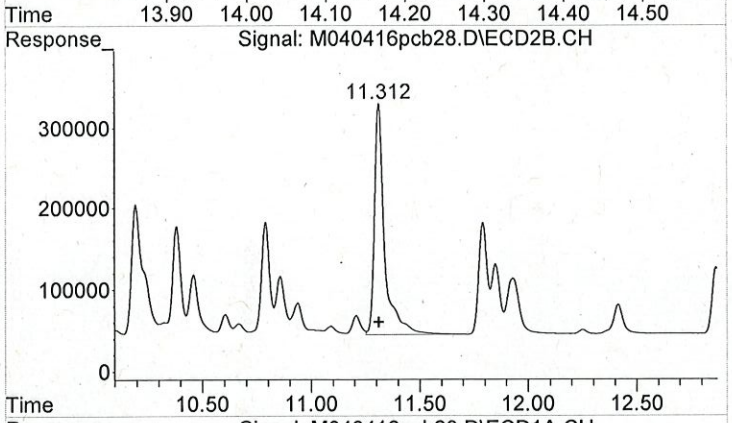
#9 1260-3

R.T.: 10.195 min
Delta R.T.: -0.002 min
Response: 158325
Conc: 152.21 pg/uL



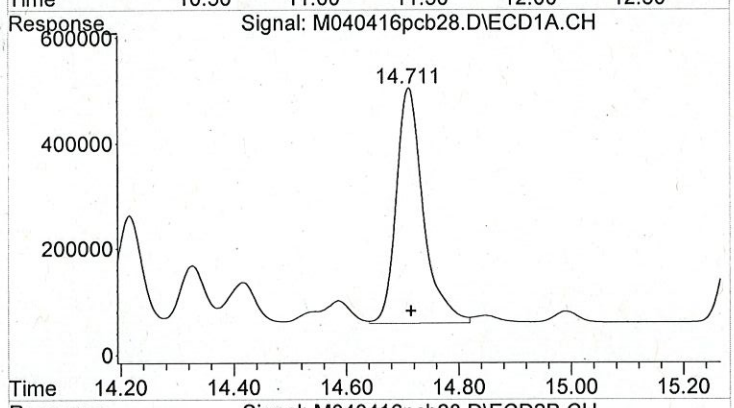
#10 1260-4

R.T.: 14.215 min
Delta R.T.: -0.006 min
Response: 205460
Conc: 163.45 pg/uL



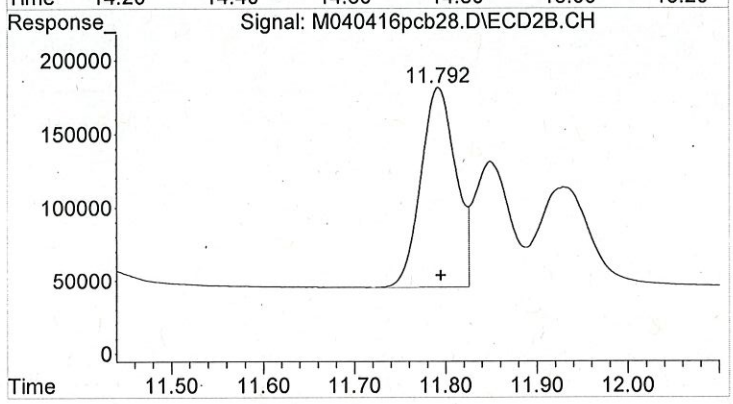
#10 1260-4

R.T.: 11.312 min
Delta R.T.: -0.001 min
Response: 284976
Conc: 155.40 pg/uL



#11 1260-5

R.T.: 14.711 min
Delta R.T.: -0.004 min
Response: 445071
Conc: 163.21 pg/uL



#11 1260-5

R.T.: 11.792 min
Delta R.T.: -0.003 min
Response: 136270
Conc: 154.65 pg/uL

- Supporting Data
    a. Extraction Documentation
    b. Standard Documentation
    c. COCs

3/30/16 SKY Valley PCB Inspection Or_P042A
PCB in Wipes
OCE-009A

Sample		time
92003301651		1040
	L1	
	L2	
16124000		
01		
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		
13		

Hexane lot DN32

All Samples received 100ul 87PCB0119141A Surrogate.
Samples 92003301 6L1 + L2 received 50 ul
87PCB0917151A Matrix Spike.

Spike Witness: [illegible]

All samples received 40 ml Hexane and placed on mechanical shaker for 2 min. A 10 ml aliquot of each sample was concentrated to 2.5 ml for a final volume of 10 ml. A 1 ml portion of each extract was treated with conc H_2SO_4 and copper powder.

DW

1/19/2016 1016/1260 PCB Initial Calibration in Hexane

Std	Stock 87PCB011916B (ul)	Final Volume (ml)	Final PCB Conc. (Pg/ul)	Final Surrogate Conc. (pg/ul
[87PCB011916C]	5	1	25	2.5
D	10	1	50	5
E	20	1	100	10
F	50	1	250	25
G	100	1	500	50
H	200	1	1000	100
I	500	1	2500	250

X 1/2017

DW

1/19/2016 PCB Instrument Blank @ 100 pg/ul

[87PCB011916J]

20ul 87PCB011916A ⇒ 10ml hexane

X 1/2017

DW

4/11/2014 AB 1016/1260 Cont. Cal STC
in hexane

[87PCB041120164]

20ml ⇒ 1ml hexane

87PCB011916B

X 1/2017 DMJ

L 00087 - 52
BOOK PAGE

2/11/16 PCB 1242 Stock
@ 5000 pg/ml
[87PCB021116A]

500 ul

AccuStandard® 125 Market St. • New Haven, CT 06513 • USA
Tel. 203-786-5290 • www.accustandard.com

C-242S-TP 1 mL
Aroclor 1242
100 µg/mL in Isooctane
Lot: B1020035
Exp. Jan 10, 2022 HIGHLY FLAMMABLE

Diluted to 10ml hexane

X 2/2017
DW

~~TR~~ DW 2/11/16 1242 PCB Initial Calibration
in Hexane

Std	Stock 87PCB021116A (ul)	Final Volume (ml)	Final Conc (pg/ml)
[87PCB021116B]	5	1	25
C	10	1	50
D	20	1	100
E	50	1	250
F	100	1	500
G	200	1	1000

X 2/2017
DW

~~2/22/16~~ 2/18/16 PCB 1254 Stock @ 5000 pg/ul

[87PCB021816A]

500 ml

AccuStandard® 125 Market Street • New Haven, CT 06513 • USA Tel. 203-786-5290 • www.accustandard.com
C-254S-TP
Aroclor 1254
100 µg/mL in Isooctane
Lot: 211021334
Exp: Feb 23, 2021
1 mL
1 comp(s)
HIGHLY FLAMMABLE

Diluted to 10ml hexane
X: 2/2017
DW

2/18/16 1254 PCB Initial Calibration in Hexane

Std	Stock 87PCB021816A (ul)	Final Volume (ml)	Final Conc. (pg/ul)
[87PCB021816B]	5	1	25
C	10	1	50
D	20	1	100
E	50	1	250
F	100	1	500
G	200	1	1000

X 2/2017
DW

1/19/2016 PCB Surrogate Solution
@ 5ug/ml

[87PCB011916A]

Accustandard
CLP-032R-WL-5X-50mL
Pesticide Surrogate mix
5 ug/ml in Acetone
Lot # 213071007 Exp 7/2023

DW

1/19/2016 1016/1260 PCB Stock
@ 5000 pg/ml Tmx, PCB @ 500 pg/ml

[87PCB011916B]

250 ul

RESTEK
110 Benner Circle
Bellefonte, PA 16823
Made in USA
Catalog# 32299
This product contains PCB's
Aroclor ® 1016/1260 Mix
200 ug/mL each in Isooctane
Lot# A094864 Exp. Date: 07/2019 Store: 25°C nominal

1000 ul 87PCB011916A

Diluted to 10 ml in Hexane

X 1/2017

DW

1/20/2016 PCB Second Source
each @ 100ng/ml PCB1221 @ 200ng/ml

[87PCB012016A] PCB 1016

10ml Accustandard C-216S-TP ⇒ 10ml hexane
Lot 2110111 26
100ng/ml X: 1/2021

[87PCB012016B] PCB 1221

CLP-282-1
Lot: T-0009X
Exp: 05/31/2016
ULTRA
1 mL
Aroclor 1221 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

[87PCB012016C]

CLP-283-1
Lot: T-0010X
Exp: 05/31/2016
ULTRA
1 mL
Aroclor 1232 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

[87PCB012016D

CLP-284-1
Lot: T-0018X
Exp: 05/31/2016
ULTRA
1 mL
Aroclor 1242 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

[87PCB012016E]

CLP-285-1
Lot: T-0033X
Exp: 05/31/2016
ULTRA
1 mL
Aroclor 1248 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

[87PCB012016F]

CLP-286-1
Lot: T-0034X
Exp: 05/31/2016
ULTRA
1 mL
Aroclor 1254 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

[87PCB012016G] PCB 1260

10ml Accustandard C-260S-TP ⇒ 10ml hexane
Lot 212111284
100ng/ml X: 11/2022

Exp 7/20/2016
DW

2/8/16 PCB Second Source
each @ 100 ng/ml - PCB 1221 @ 200 ng/ml

[87PCB020816A]

CLP-282-1
Lot: T-0009Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1221 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

[87PCB020816B]

CLP-283-1
Lot: T-0010Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1232 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

[87PCB020816C]

CLP-284-1
Lot: T-0018Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1242 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

[87PCB020816D]

CLP-285-1
Lot: T-0033Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1248 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

[87PCB020816E]

CLP-286-1
Lot: T-0034Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1254 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

Exp 8/8/2016
PW

9/17/2015
M Sherman

[87 PCB 091715A] 1016/1260 Spike 40ng/µL

87PCB091715A
1016/1260 SPIKE
40ng/µL ACETONE
X:09/17/2016

RESTEK 110 Benner Circle Bellefonte, PA 16823
Catalog# 32299
This product contains PCB's
Aroclor ® 1016/1260 Mix
200 ug/mL each in Isooctane
Lot# A094864 Exp. Date: 07/2019 Store: 25°C nominal
Made in USA

1000µL ⇒ 5mL Acetone Lot DM245
X: 9/17/2016

[87 PCB091715B] 1016/1260 LOW Spike 4ng/µL

87PCB091715B
1016/1260 LOW SPIKE
4ng/µL ACETONE
X:09/17/2016

RESTEK 110 Benner Circle Bellefonte, PA 16823
Catalog# 32299
This product contains PCB's
Aroclor ® 1016/1260 Mix
200 ug/mL each in Isooctane
Lot #A094864 Exp. Date:07/2019 Store: 25°C nominal
Made in USA
CS
FOR LABORATORY USE ONLY

200µL ⇒ 10mL Acetone Lot DM245
X: 9/17/2016

PCB SSV Set [87PCB091715C-H]

CLP-281-1
Lot: CK-4343
Exp: 01/31/2018
ULTRA 1 mL
Aroclors 1016 and 1260 Standard
4 analyte(s) at various concentrations in Isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only
87PCB091715C
1016/126 SSV
100pg/µL
X2°:3/17/2016

CLP-284-1
Lot: T-0018X
Exp: 05/31/2016
ULTRA 1 mL
Aroclor 1242 Standard
3 analyte(s) at various concentrations in Isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only
87PCB091715F
1242 SSV
100pg/µL
X2°:3/17/2016

CLP-282-1
Lot: T-0009X
Exp: 05/31/2016
ULTRA 1 mL
Aroclor 1221 Standard
3 analyte(s) at various concentrations in Isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only
87PCB091715D
1221 SSV
200pg/µL
X2°:3/17/2016

CLP-285-1
Lot: T-0033X
Exp: 05/31/2016
ULTRA 1 mL
Aroclor 1248 Standard
3 analyte(s) at various concentrations in Isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only
87PCB091715G
1248 SSV
100pg/µL
X2°:3/17/2016

CLP-283-1
Lot: T-0010X
Exp: 05/31/2016
ULTRA 1 mL
Aroclor 1232 Standard
3 analyte(s) at various concentrations in Isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only
87PCB091715E
1232 SSV
100pg/µL
X2°:3/17/2016

CLP-286-1
Lot: T-0034X
Exp: 05/31/2016
ULTRA 1 mL
Aroclor 1254 Standard
3 analyte(s) at various concentrations in Isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only
87PCB091715H
1254 SSV
100pg/µL
X2°:3/17/2016

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

MP Recd 7/8/2013

ACCREDITED
ISO Guide 34 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32299 **Lot No.:** A094864

Description : Aroclor ® 1016/1260 Mix

200µg/mL, Isooctane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 2019 **Storage:** 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016 CAS # 12674-11-2 Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL +/- 4.2504 µg/mL +/- 6.9193 µg/mL		Gravimetric Unstressed Stressed
2	Aroclor 1260 CAS # 11096-82-5 Purity ----%	202.0 µg/mL	+/- 1.4323 µg/mL +/- 4.2929 µg/mL +/- 6.9885 µg/mL		Gravimetric Unstressed Stressed

Solvent: Isooctane
CAS # 540-84-1
Purity 99%

125 Market Street
New Haven, CT 06513
USA

AccuStandard®, Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

CATALOG NO: CLP-032R-WL-5X-50ML
DESCRIPTION: Pesticide Surrogate Mix
LOT: 213071007
SOLVENT: Acetone

EXPIRATION: Jul 9 , 2023
DATE CERTIFIED: Jul 9, 2013
SAMPLE SIZE: 50 mL
STORAGE CONDITION: Ambient
HAZARDS: HIGHLY FLAMMABLE

Refer to the MSDS for additional safety information

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	Cas Number	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Decachlorobiphenyl	2051-24-3	99.8	5.012	5.002
TCMX	877-09-8	97.8	5.124 *	5.011

MP 7/15/13

2 Components

* Weight compensated to 100% purity

1. All weights are traceable through NIST, Test No. 822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

MP Rec'd 4/11/11

125 Market Street
New Haven, CT 06513
USA

AccuStandard®, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: C-254S-TP
Description: Aroclor 1254
Lot: 211021334
Solvent: Isooctane

Date Certified: Feb 23, 2011
Expiration: Feb 23, 2021
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1254	11097-69-1	Tech	100.2	100.2

Accustandard

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

125 Market Street
New Haven, CT 06513
USA

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Tel (203)786-5290
Fax (203)786-5287
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CERTIFICATE OF ANALYSIS

Catalog No: C-242S-TP
Description: Aroclor 1242

Lot: B1020035
Solvent: Isooctane

Date Certified: Jan 10, 2012
Expiration: Jan 10, 2022
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1242	53469-21-9	Tech Mix	100.3	100.3

MP 7/15/13

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

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CERTIFICATE OF ANALYSIS

Catalog No: C-216S-TP
Description: Aroclor 1016
Lot: 211011126
Solvent: Isooctane
Hazards: **HIGHLY FLAMMABLE** - *Refer to SDS for safety info*

Danger 2

Date Certified: Jan 13, 2011
Expiration: Jan 13, 2021
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1016	12674-11-2	Tech Mix	100.8	100.8

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] All weights are traceable through NIST, Test No. 822/272103-05

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values:
A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By: _____
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Certificate of Analysis

ULTRA SCIENTIFIC
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TRIPLE ISO CERTIFICATION
ULTRA
ISO 17025 • ISO GUIDE 34 • ISO 9001

Aroclor 1221 Solution

Product Number: CLP-282 **Page:** 1 of 1

Lot Number: T-0009Y **Lot Issue Date:** 18-Aug-2015 **Expiration Date:** 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1221	011104-28-2	NT01017	200.0 ± 1.0 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

William J. Leary
Quality Assurance Manager

Certificate of Analysis

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Aroclor 1232 Solution

Product Number: CLP-283 **Page:** 1 of 1

Lot Number: T-0010Y **Lot Issue Date:** 18-Aug-2015 **Expiration Date:** 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.0 ± 0.5 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

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Aroclor 1242 Solution

Product Number: CLP-284 **Page:** 1 of 1

Lot Number: T-0018Y **Lot Issue Date:** 18-Aug-2015 **Expiration Date:** 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.0 ± 0.5 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

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Aroclor 1248 Solution

Product Number: CLP-285 **Page:** 1 of 1

Lot Number: T-0033Y **Lot Issue Date:** 18-Aug-2015 **Expiration Date:** 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1248	012672-29-6	NT01718	100.0 ± 0.5 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

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Aroclor 1254 Solution

Product Number: CLP-286 **Page:** 1 of 1

Lot Number: T-0034Y **Lot Issue Date:** 18-Aug-2015 **Expiration Date:** 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	NT01719	100.0 ± 0.5 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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CERTIFICATE OF ANALYSIS

Catalog No: C-260S-TP
Description: Aroclor 1260

Lot: 212111284
Solvent: Isooctane

Date Certified: Nov 14, 2012
Expiration: Nov 14, 2022
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1260	11096-82-5	Tech Mix	100.0	100.0

MP 7/15/13

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

PCB Sample Results Summary

Sample.....: 16124007
Data File....: M040416pcb44.D
Project.....: OCE-009A
Matrix.....: 42 - Wipe
Analyzed.....: 04/05/2016 6:00
Type.....: 0

Date Prepped...: 3/30/2016
ICAL Date.....: 04/04/2016
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....:
Acq. Method: M040116PCBEXTBAKE.
ASEQ Number: na

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 100 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB Wipe 100mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M040416PCB1242.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\M040416pcb44.D

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response		Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	25	1000	tmx (1)	-	-	-					
7	25	1000	dcb	-	-	-	d				
9	25	1000	tmx (1) #2	-	-	-					
15	25	1000	dcb #2	-	-	-	d				
2	25	1000	1242 -1	8.63	8.64	40974		-	47	4.7 ug	
3	25	1000	1242-2	9.10	9.11	264162		-	168	17 ug	
4	25	1000	1242-3	9.70	9.71	349907		-	710	71 ug	E
5	25	1000	1242-4	10.34	10.34	739640		-	2.5		~~U~~ m
6	25	1000	1242-5	11.22	11.23	1902380		-	2.5		~~U~~ m
10	25	1000	1242 -1 #2	6.70	6.70	213271		-	226	23 ug	
11	25	1000	1242-2 #2	6.88	6.88	156729		-	292	29 ug	
12	25	1000	1242-3 #2	7.46	7.46	665442		-	1430	140 ug	E
13	25	1000	1242-4 #2	8.12	8.12	1686220		-	4010	400 ug	E
14	25	1000	1242-5 #2	8.41	8.41	1493510		-	4950	500 ug	E

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
53469219	1242 Column 1	31	ug	3	114 %	Results will be reported from Column 1
53469219	1242 Column 2	220	ug	5	100 %	150 %

Data Not Reported mw

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:00 am
Operator : DWOOD
Sample : 16124007
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 38 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:35:25 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 1242 -1	8.635	6.702	40974	213271	47.144	226.301 #
3) L1 1242-2	9.104	6.884	264162	156729	168.049	291.772 #
4) L1 1242-3	9.701	7.459	349907	665442	710.275	1429.908 #
5) L1 1242-4	10.338	8.117	739640	1686218	BelowCal	4008.845 #
6) L1 1242-5	11.223	8.409	1902380	1493511	BelowCal	4953.707 #
Sum 1242 -1			655042	4215171	923.468	10910.533
Average 1242 -1					307.823	2182.107

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

off Scale

MW
4/12/16

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:00 am
Operator : DWOOD
Sample : 16124007
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 38 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:21 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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	11.311	8.228	~~706645~~	~~111010~~	NoCal	NoCal
Target Compounds						
2) L1 1242 -1	8.635	6.702	40974	213271	47.144	226.301 #
3) L1 1242-2	9.104	6.884	264162	156729	168.049	291.772 #
4) L1 1242-3	9.701	7.459	349907	665442	710.275	1429.908 #
5) L1 1242-4	10.338	8.117	739640	1686218	BelowCal	4008.845 #
6) L1 1242-5	11.223	8.409	1902380	1493511	BelowCal	4953.707 #
Sum 1242 -1			655042	4215171	923.468	10910.533
Average 1242 -1					307.823	2182.107

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

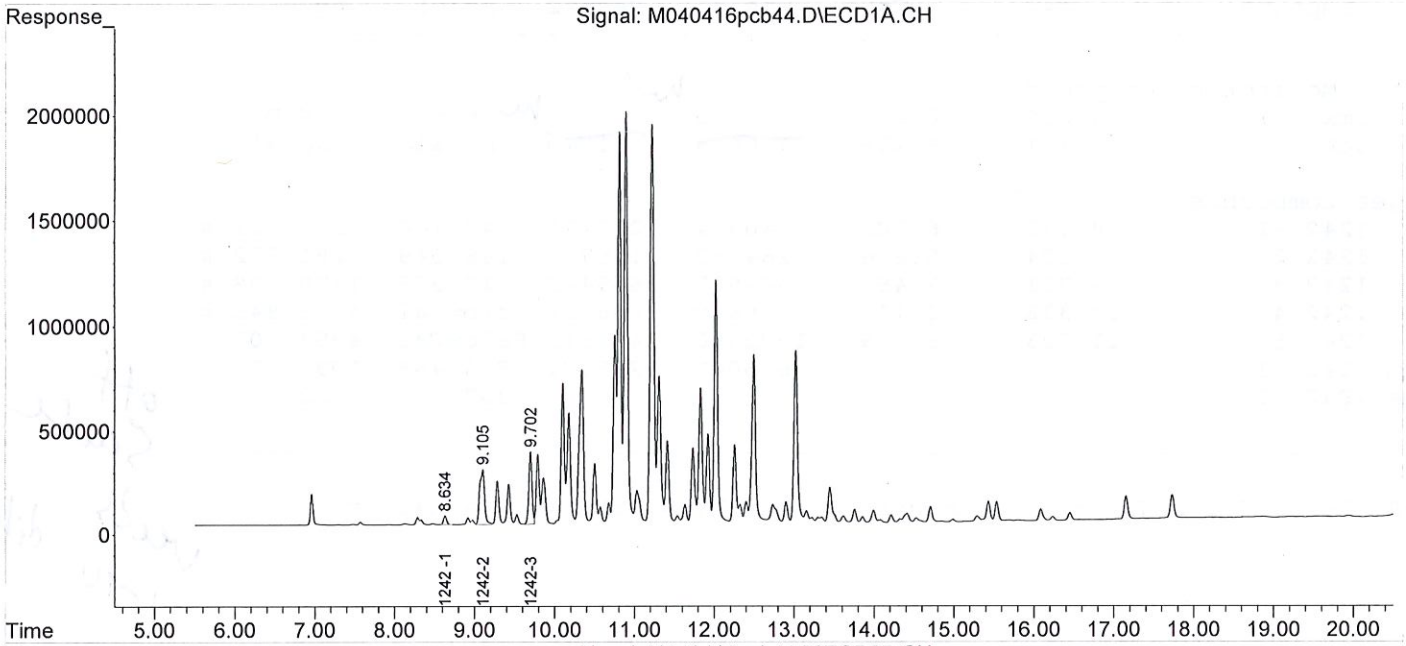
off scale
needs 1-10 dilution
4/11/16

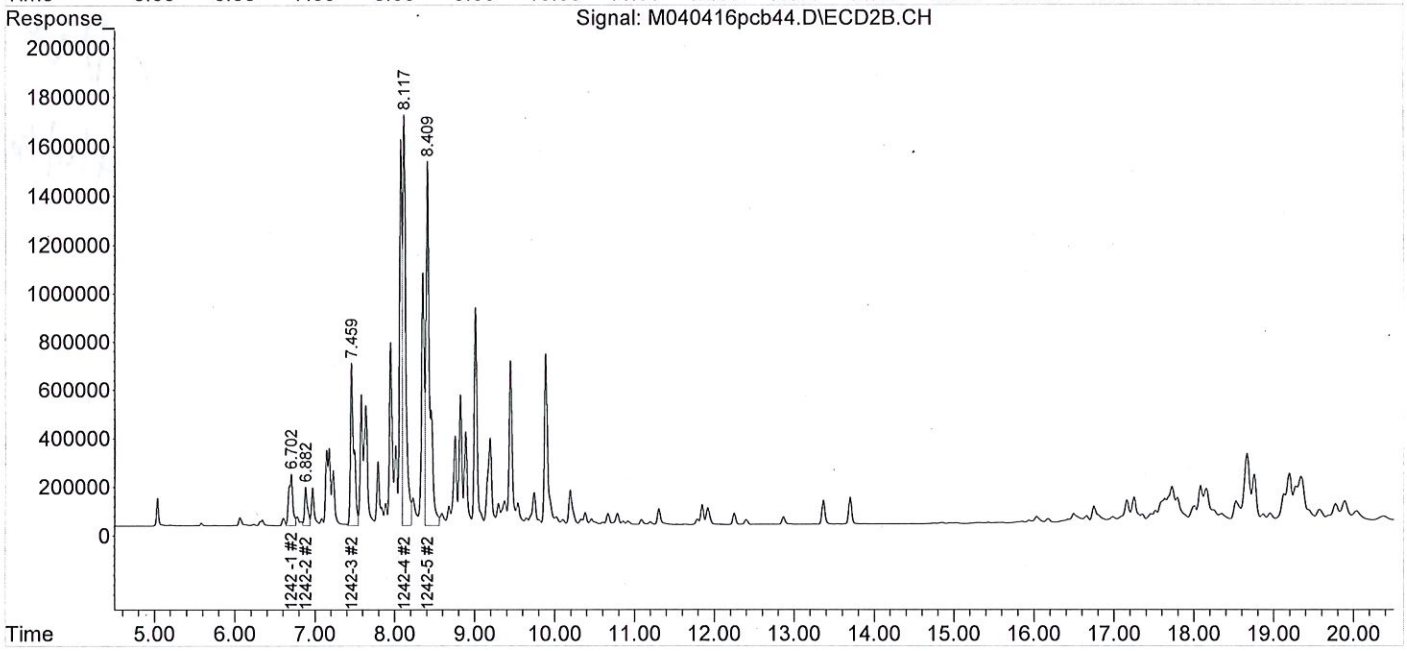
Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:00 am
Operator : DWOOD
Sample : 16124007
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 38 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:21 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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



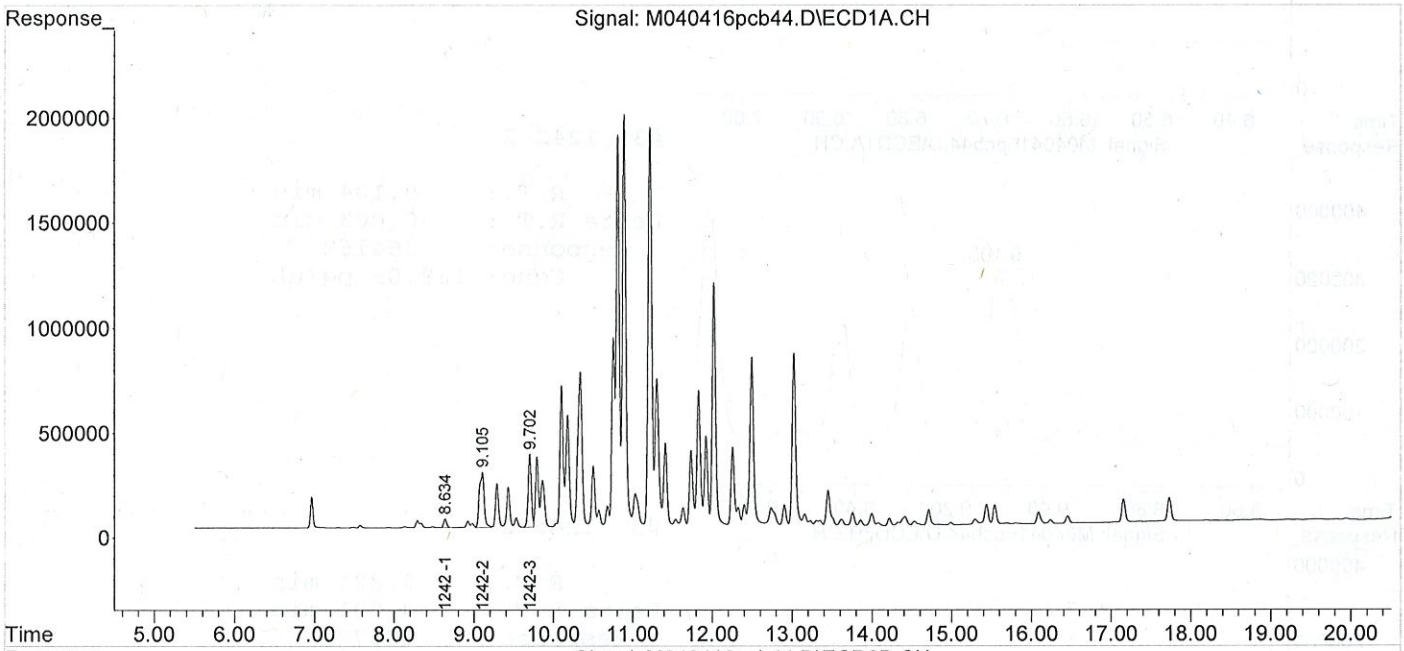


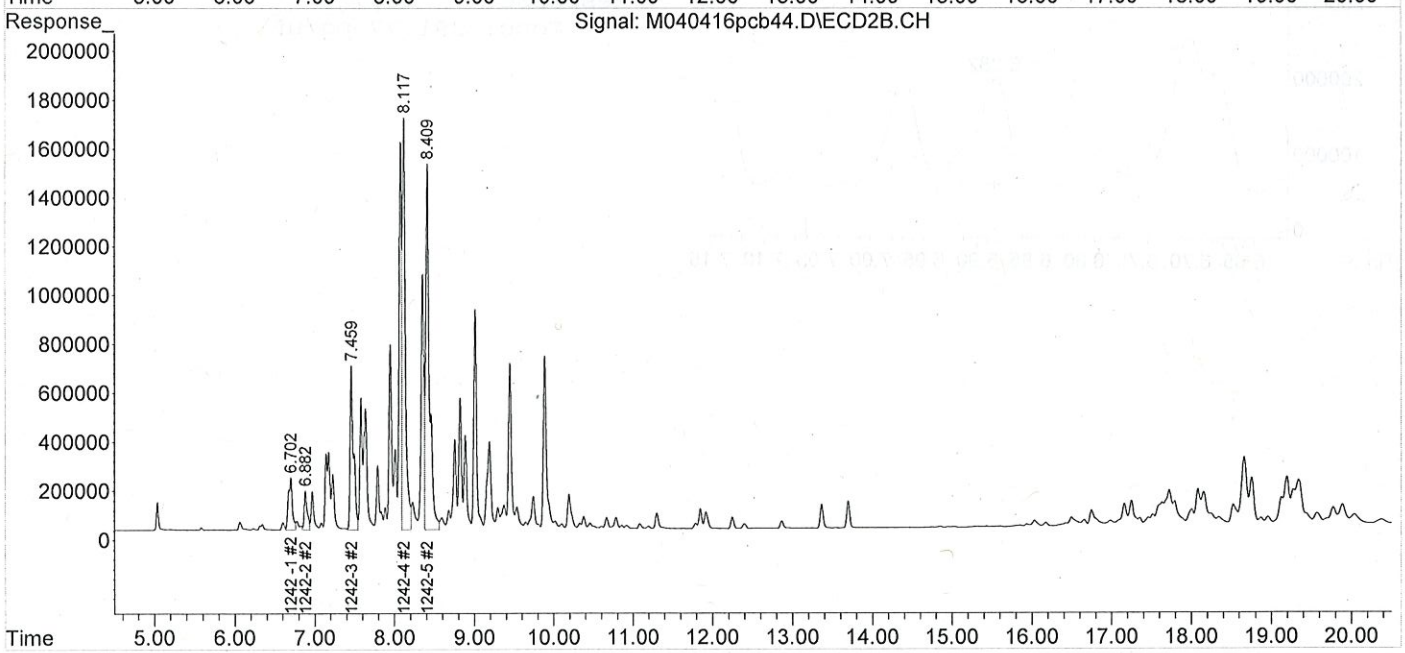
Quantitation Report (QT Reviewed)

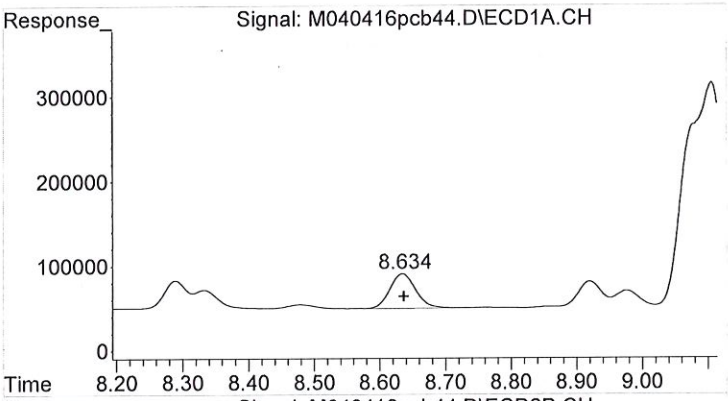
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb44.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 6:00 am
Operator : DWOOD
Sample : 16124007
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 38 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:35:25 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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

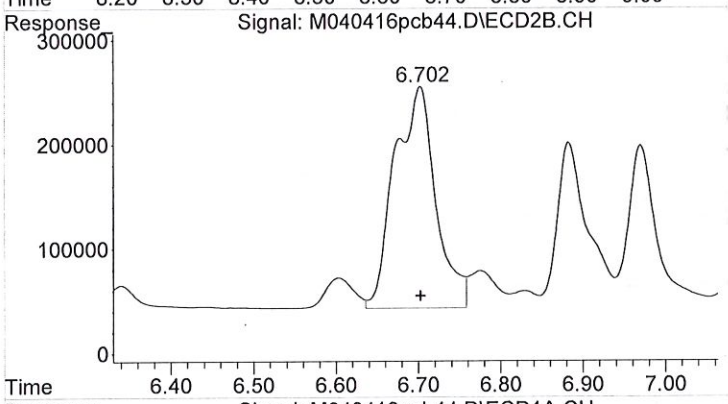






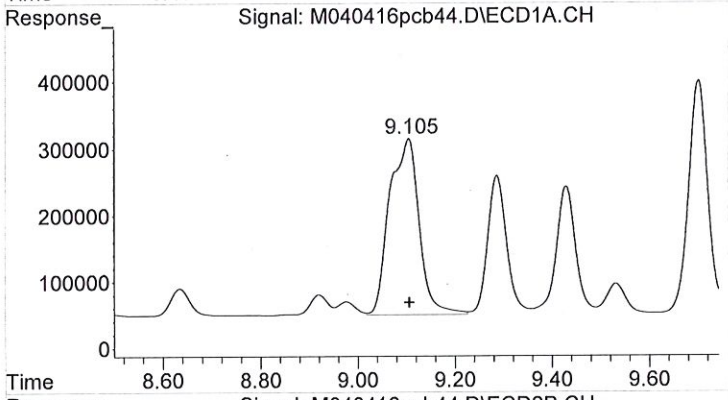
#2 1242 -1

R.T.: 8.635 min
Delta R.T.: -0.002 min
Response: 40974
Conc: 47.14 pg/uL



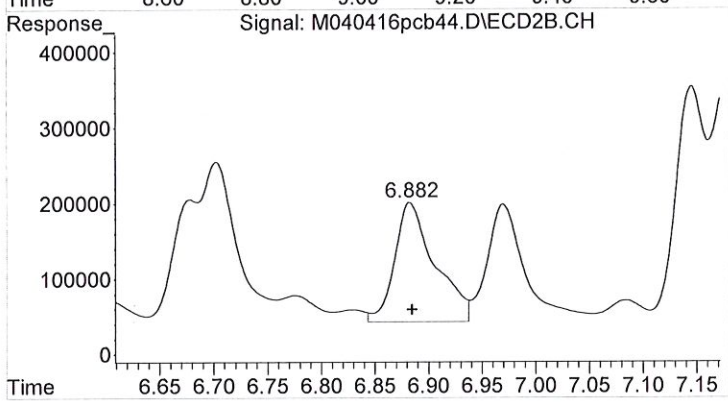
#2 1242 -1

R.T.: 6.702 min
Delta R.T.: -0.001 min
Response: 213271
Conc: 226.30 pg/uL



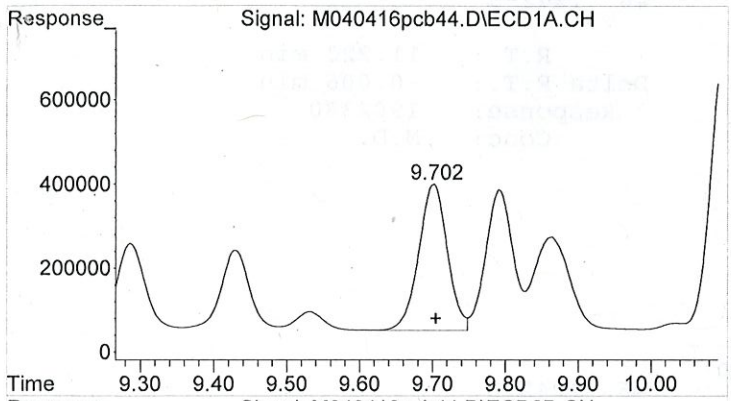
#3 1242-2

R.T.: 9.104 min
Delta R.T.: -0.003 min
Response: 264162
Conc: 168.05 pg/uL



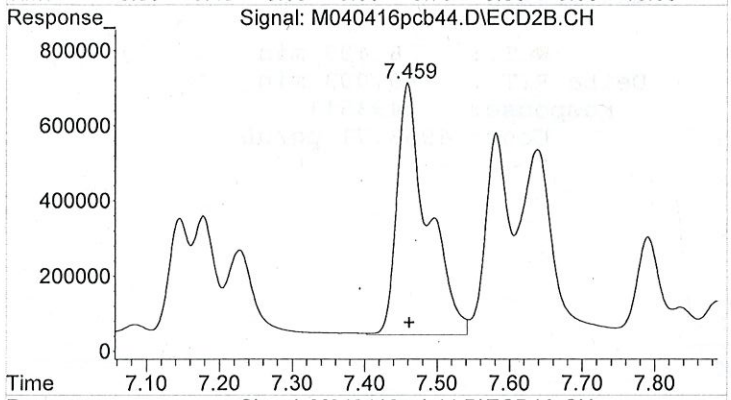
#3 1242-2

R.T.: 6.884 min
Delta R.T.: -0.001 min
Response: 156729
Conc: 291.77 pg/uL



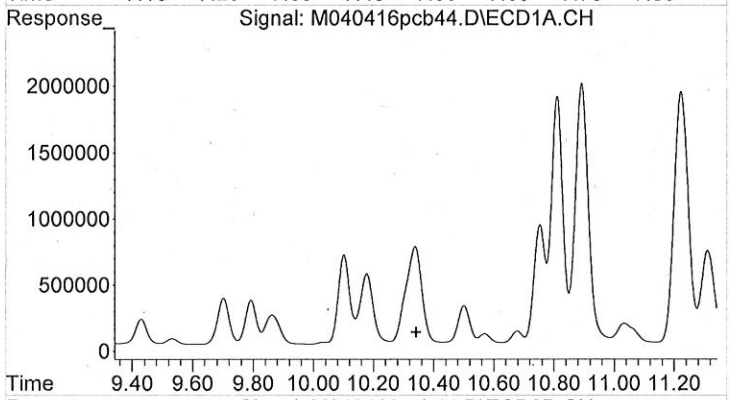
#4 1242-3

R.T.: 9.701 min
Delta R.T.: -0.004 min
Response: 349907
Conc: 710.28 pg/uL



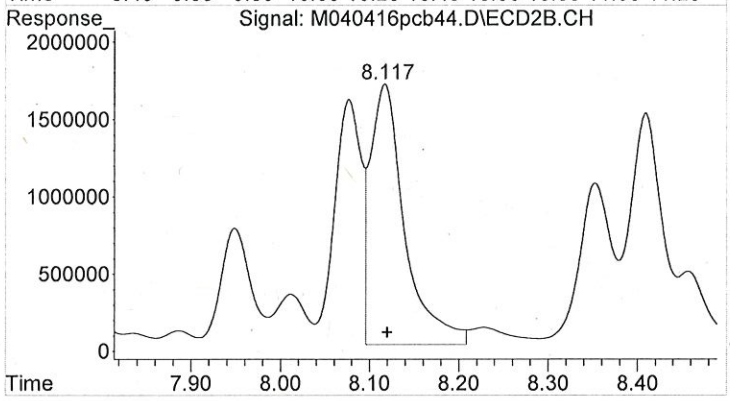
#4 1242-3

R.T.: 7.459 min
Delta R.T.: -0.003 min
Response: 665442
Conc: 1429.91 pg/uL



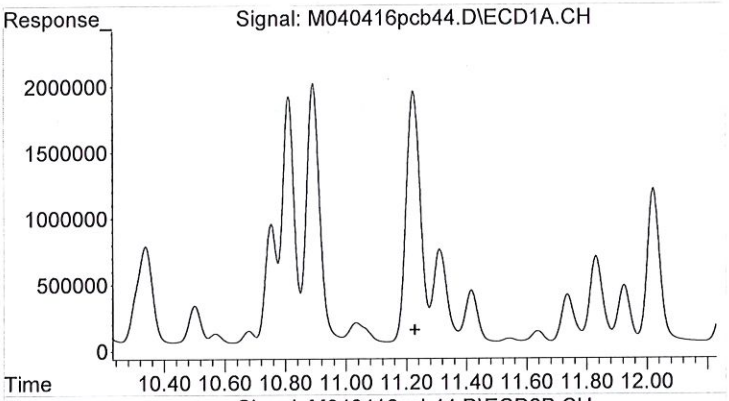
#5 1242-4

R.T.: 10.338 min
Delta R.T.: -0.005 min
Response: 739640
Conc: N.D.



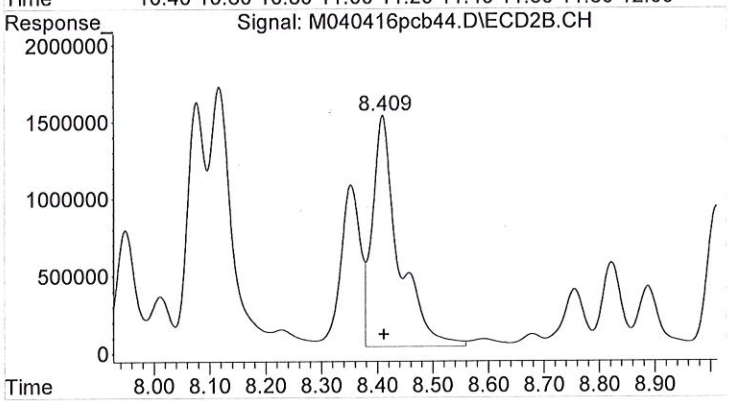
#5 1242-4

R.T.: 8.117 min
Delta R.T.: -0.003 min
Response: 1686218
Conc: 4008.85 pg/uL



#6 1242-5

R.T.: 11.223 min
Delta R.T.: -0.006 min
Response: 1902380
Conc: N.D.



#6 1242-5

R.T.: 8.409 min
Delta R.T.: -0.003 min
Response: 1493511
Conc: 4953.71 pg/uL

Sample.....: 16124003
Data File....: M040416pcb46.D
Project.....: OCE-009A
Matrix.....: 42 - Wipe
Analyzed.....: 04/05/2016 7:09
Type.....: 0
Additional Info..: Sky Valley PCB Wipe 100mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M040416PCB1242.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\M040416pcb46.D

Date Prepped...: 3/30/2016
ICAL Date.....: 04/04/2016
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....:
Acq. Method: M040116PCBEXTBAKE.
ASEQ Number: na

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 100 mL
Dilution.....: 1x D0

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response		Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	25	1000	tmx (1)	-	-	-					
7	25	1000	dcb	-	-	-	d				
9	25	1000	tmx (1) #2	-	-	-					
15	25	1000	dcb #2	-	-	-	d				
2	25	1000	1242 -1	8.63	8.64	18800600		-	2.5		~~E~~ ~~U~~ m
3	25	1000	1242-2	9.11	9.11	54737200		-	2.5		~~E~~ ~~U~~ m
4	25	1000	1242-3	9.70	9.71	22151900		-	2.5		~~E~~ ~~U~~ m
5	25	1000	1242-4	10.34	10.34	25292300		-	2.5		~~E~~ ~~U~~ m
6	25	1000	1242-5	11.22	11.23	30019000		-	2.5		~~E~~ ~~U~~ m
10	25	1000	1242 -1 #2	6.70	6.70	53415400		-	57300	5700 ug	E
11	25	1000	1242-2 #2	6.88	6.88	29936400		-	56900	5700 ug	E
12	25	1000	1242-3 #2	7.46	7.46	32519800		-	70100	7000 ug	E
13	25	1000	1242-4 #2	8.12	8.12	34316800		-	81600	8200 ug	E
14	25	1000	1242-5 #2	8.41	8.41	24651900		-	81800	8200 ug	E

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
53469219	1242 Column 1		ug (RL)	0	NA	Results will be reported from Column 1
53469219	1242 Column 2	7000	ug	5	18 %	200 %

Data Not Reported
MW

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:09 am
Operator : DWOOD
Sample : 16124003
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 39 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:37:55 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 1242 -1	8.635	6.703	18800554	53415383	BelowCal	57314.674 #
3) L1 1242-2	9.106	6.884	54737181	29936429	BelowCal	56854.437 #
4) L1 1242-3	9.703	7.460	22151905	32519800	BelowCal	70124.108 #
5) L1 1242-4	10.339	8.118	25292349	34316752	BelowCal	81639.661 #
6) L1 1242-5	11.225	8.409	30019028	24651949	BelowCal	81827.768 #
Sum 1242 -1			0	174.8E6	N.D.	347760.648
Average 1242 -1					0.000	69552.130

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

Off Scale
LW

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:09 am
Operator : DWOOD
Sample : 16124003
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 39 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:29 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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	N.D.	N.D.
7) S2 dcb	11.312	8.230	~~9636521~~	~~1357262~~	NoCal	NoCal
Target Compounds						
2) L1 1242 -1	8.635	6.703	18800554	53415383	BelowCal	57314.674 #
3) L1 1242-2	9.106	6.884	54737181	29936429	BelowCal	56854.437 #
4) L1 1242-3	9.703	7.460	22151905	32519800	BelowCal	70124.108 #
5) L1 1242-4	10.339	8.118	25292349	34316752	BelowCal	81639.661 #
6) L1 1242-5	11.225	8.409	30019028	24651949	BelowCal	81827.768 #
Sum 1242 -1			0	174.8E6	N.D.	347760.648
Average 1242 -1					0.000	69552.130

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

off Scale
needs 1-10 dilution

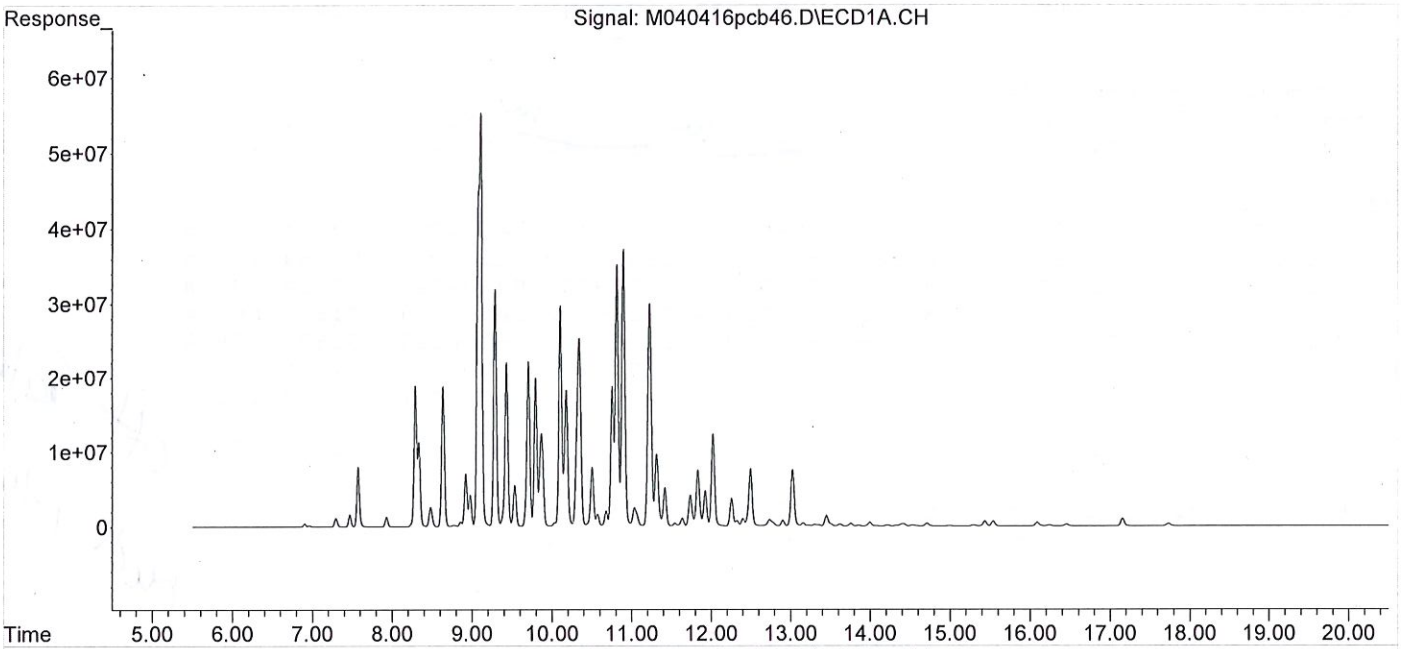
4/11/16

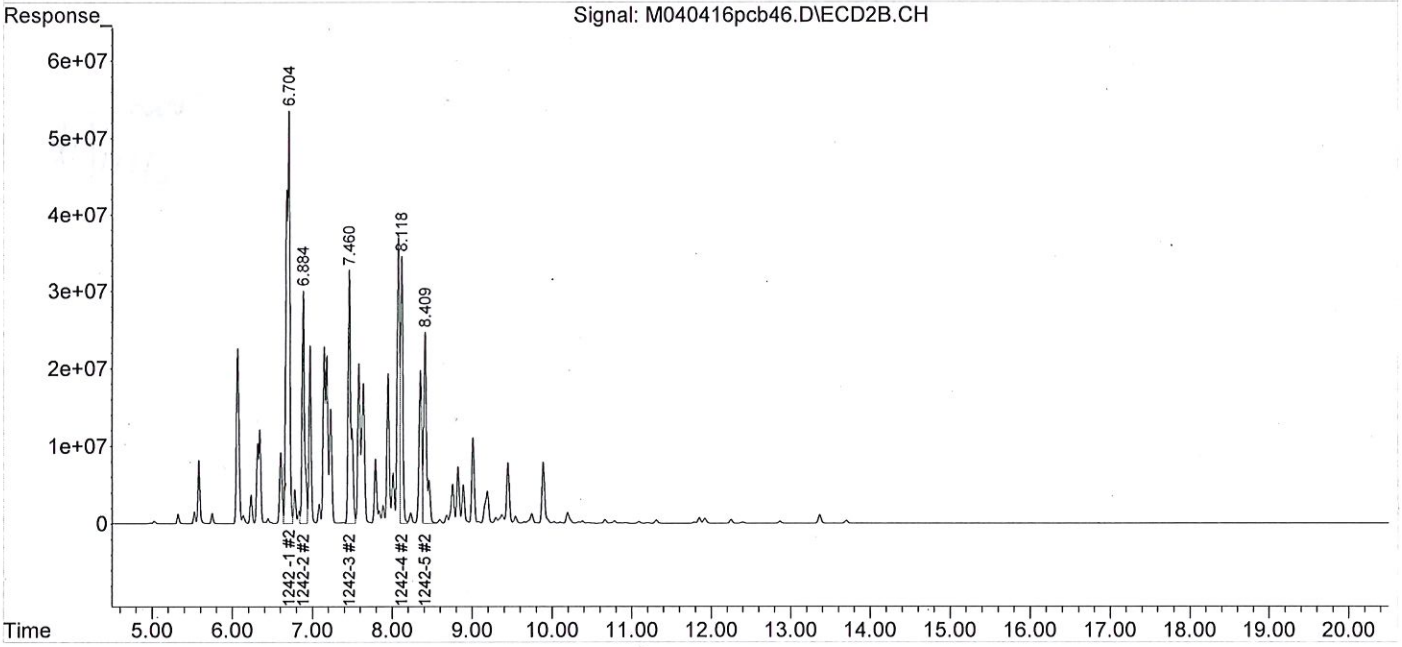
Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:09 am
Operator : DWOOD
Sample : 16124003
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 39 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:29 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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



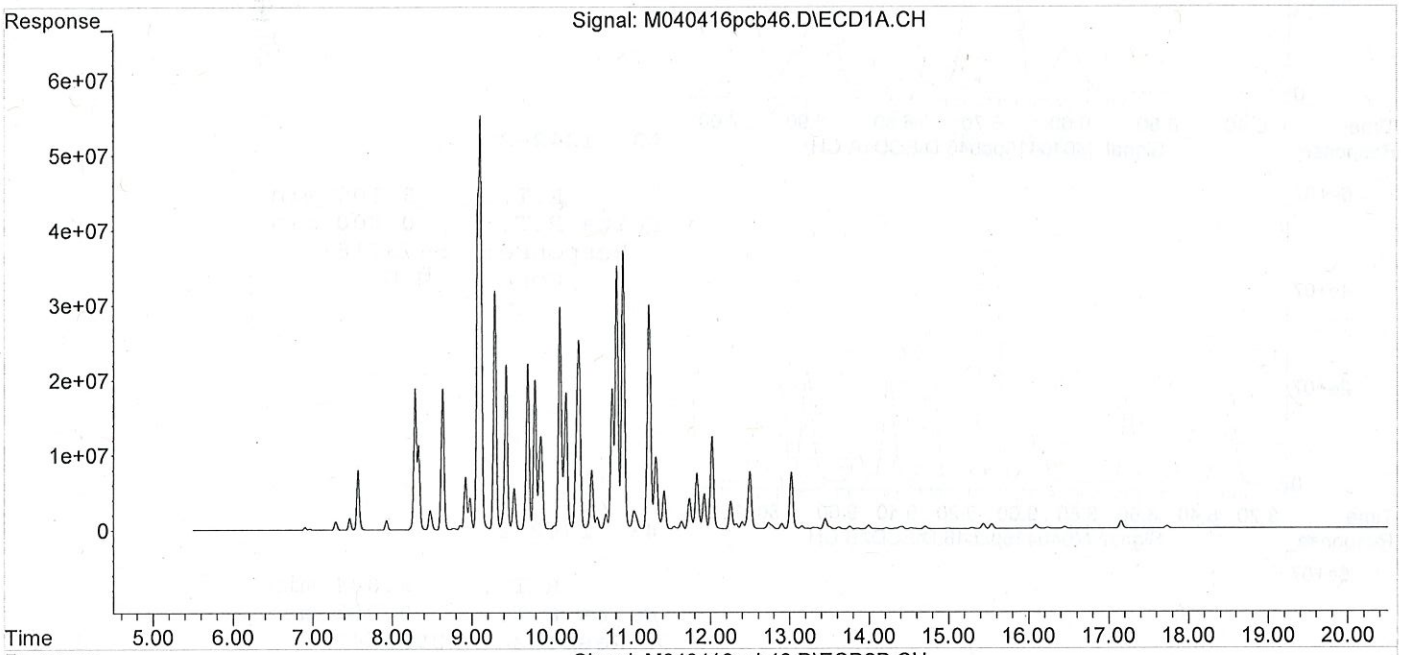


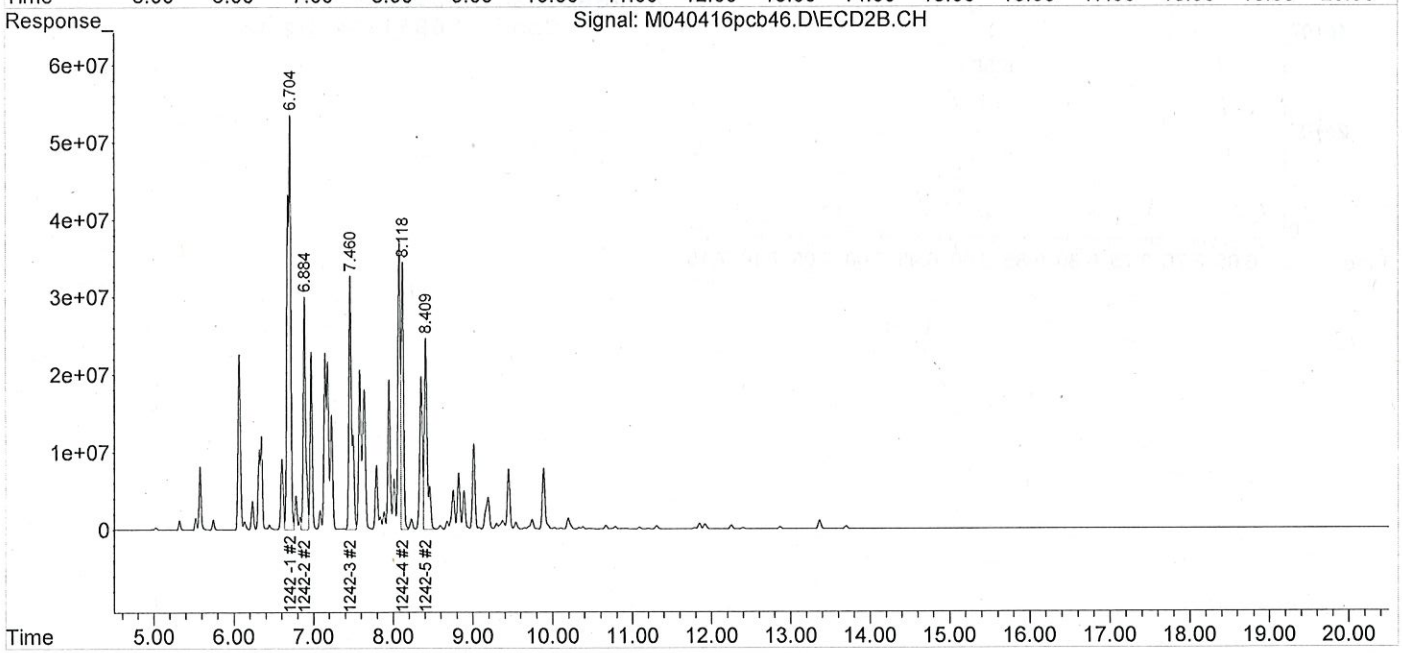
Quantitation Report (QT Reviewed)

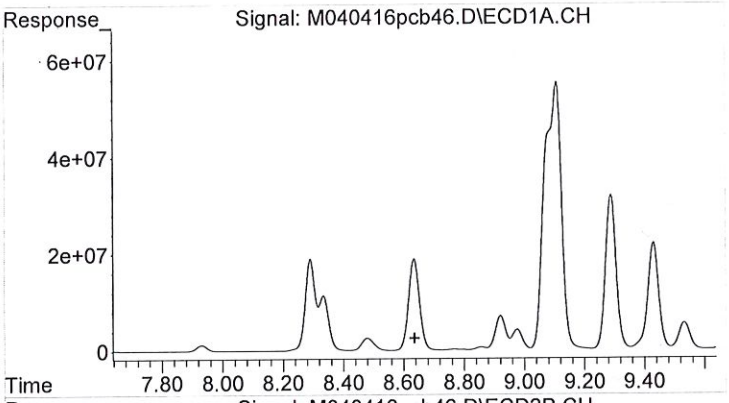
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb46.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 7:09 am
Operator : DWOOD
Sample : 16124003
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 39 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:37:55 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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

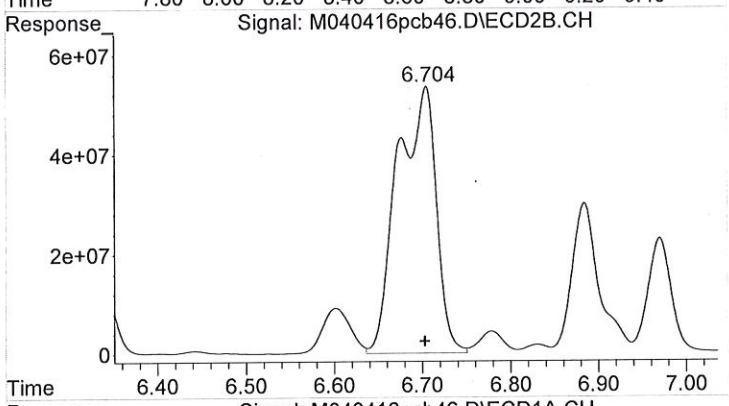






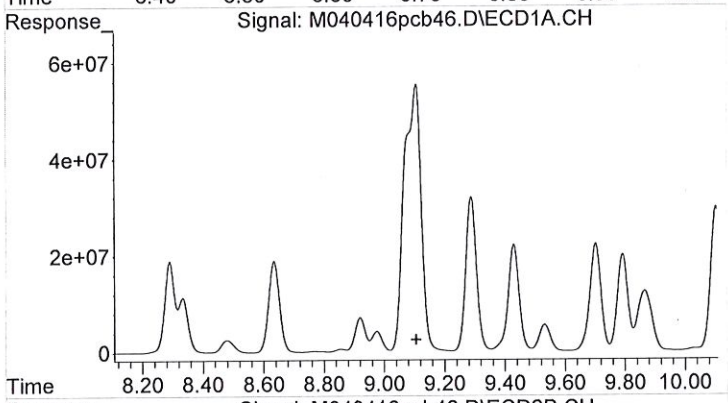
#2 1242 -1

R.T.: 8.635 min
Delta R.T.: -0.002 min
Response: 18800554
Conc: N.D.



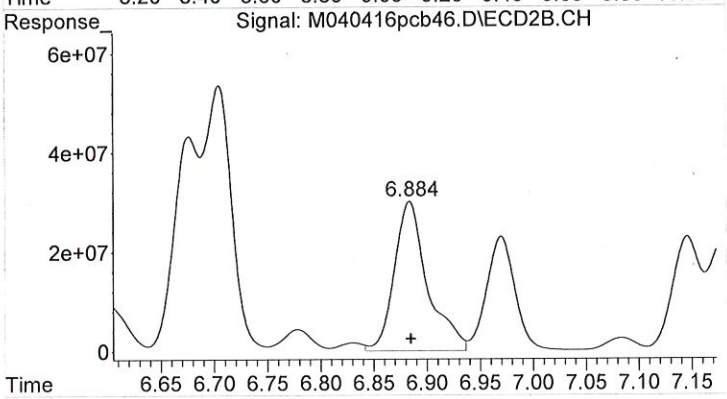
#2 1242 -1

R.T.: 6.703 min
Delta R.T.: 0.000 min
Response: 53415383
Conc: 57314.67 pg/uL



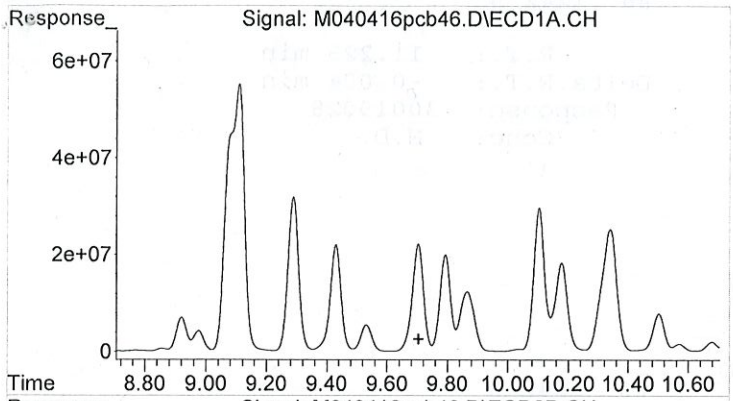
#3 1242-2

R.T.: 9.106 min
Delta R.T.: 0.000 min
Response: 54737181
Conc: N.D.



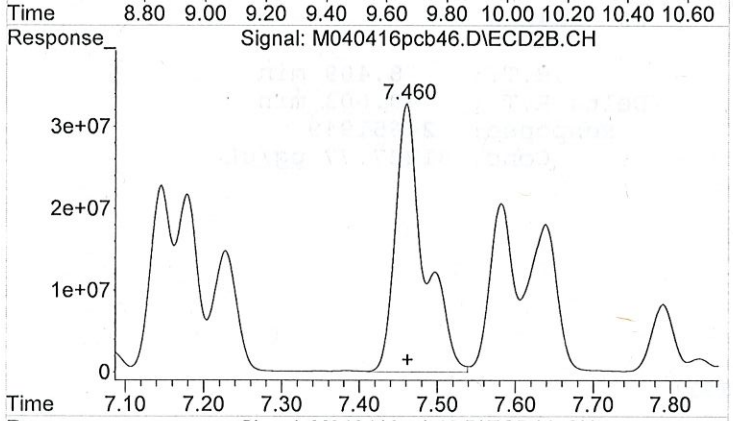
#3 1242-2

R.T.: 6.884 min
Delta R.T.: -0.001 min
Response: 29936429
Conc: 56854.44 pg/uL



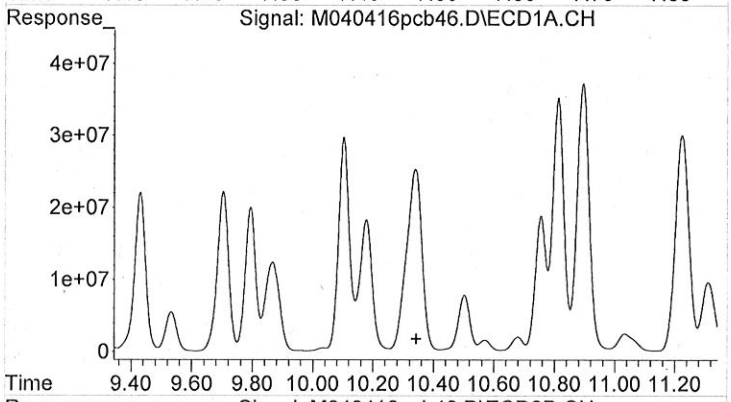
#4 1242-3

R.T.: 9.703 min
Delta R.T.: -0.002 min
Response: 22151905
Conc: N.D.



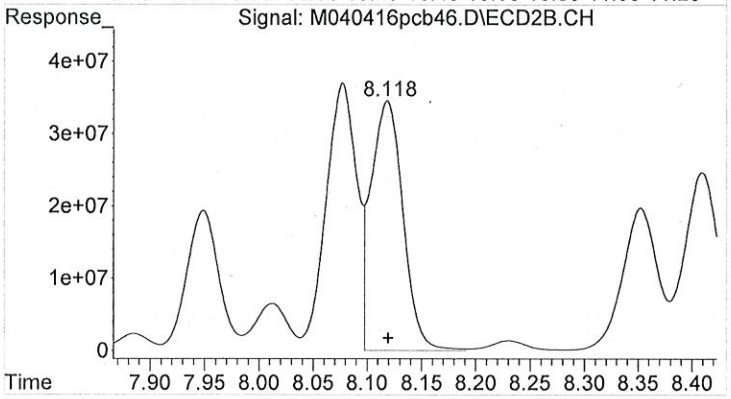
#4 1242-3

R.T.: 7.460 min
Delta R.T.: -0.002 min
Response: 32519800
Conc: 70124.11 pg/uL



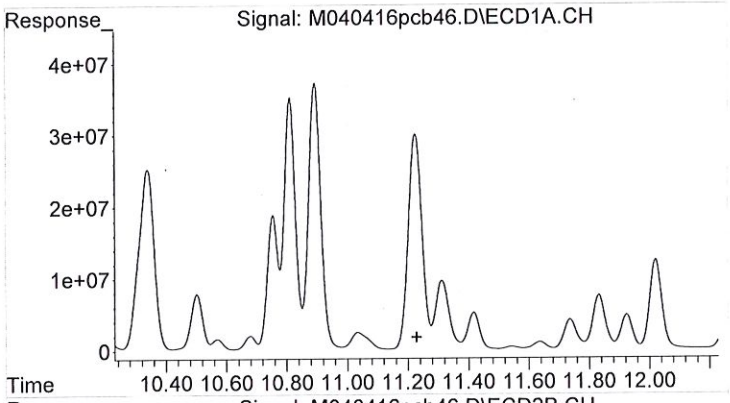
#5 1242-4

R.T.: 10.339 min
Delta R.T.: -0.004 min
Response: 25292349
Conc: N.D.



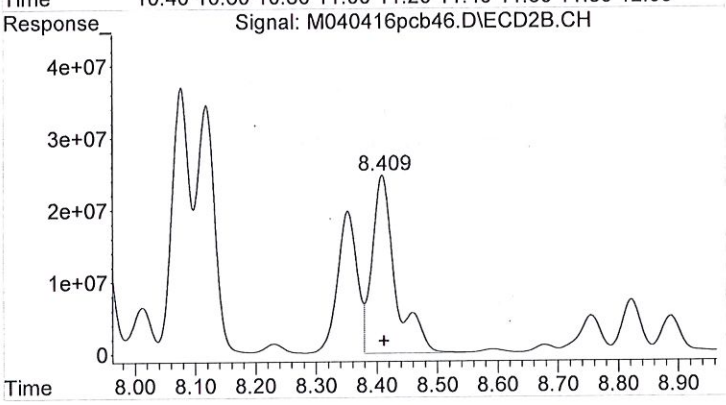
#5 1242-4

R.T.: 8.118 min
Delta R.T.: -0.002 min
Response: 34316752
Conc: 81639.66 pg/uL



#6 1242-5

R.T.: 11.225 min
Delta R.T.: -0.004 min
Response: 30019028
Conc: N.D.



#6 1242-5

R.T.: 8.409 min
Delta R.T.: -0.003 min
Response: 24651949
Conc: 81827.77 pg/uL

PCB Sample Results Summary

Sample.....: 16124001
Data File....: M040416pcb38.D
Project.....: OCE-009A
Matrix.....: 42 - Wipe
Analyzed.....: 04/05/2016 2:32
Type.....: 0
Additional Info..: Sky Valley PCB Wipe 100mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M040416PCB1242.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\M040416pcb38.D

Date Prepped...: 3/30/2016
ICAL Date.....: 04/04/2016
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....:
Acq. Method: M040116PCBEXTBAKE.
ASEQ Number: na

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 100 mL
Dilution.....: 1x D0

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response		Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	25	1000	tmx (1)	-	-	-					
7	25	1000	dcb	-	-	-	d				
9	25	1000	tmx (1) #2	-	-	-					
15	25	1000	dcb #2	-	-	-	d				
2	25	1000	1242 -1	8.63	8.64	460781		-	751	75 ug	E m
3	25	1000	1242-2	9.10	9.11	1448040		-	2.5		~~E U m~~
4	25	1000	1242-3	9.70	9.71	691697		-	2.5		~~E U m~~
5	25	1000	1242-4	10.34	10.34	823188		-	2.5		~~E U m~~
6	25	1000	1242-5	11.22	11.23	892874		-	2.5		~~E U m~~
10	25	1000	1242 -1 #2	6.70	6.70	1397780		-	1500	150 ug	E
11	25	1000	1242-2 #2	6.88	6.88	858418		-	1620	160 ug	E
12	25	1000	1242-3 #2	7.46	7.46	969582		-	2090	210 ug	E
13	25	1000	1242-4 #2	8.12	8.12	987697		-	2350	230 ug	E
14	25	1000	1242-5 #2	8.41	8.41	696209		-	2310	230 ug	E

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
53469219	1242 Column 1	75	ug	1	0 %	
53469219	1242 Column 2	200	ug	5	20 %	90 %

Results will be reported from Column 1

Data Not Reported
m

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 2:32 am
Operator : DWOOD
Sample : 16124001
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 32 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:30:27 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 1242 -1	8.634	6.702	460781	1397783	751.436	1497.339 #
3) L1 1242-2	9.104	6.884	1448041	858418	BelowCal	1624.539 #
4) L1 1242-3	9.701	7.461	691697	969582	BelowCal	2085.788 #
5) L1 1242-4	10.338	8.117	823188	987697	BelowCal	2347.004 #
6) L1 1242-5	11.223	8.410	892874	696209	BelowCal	2307.076 #
Sum 1242 -1			460781	4909689	747.436	9861.746
Average 1242 -1					747.436	1972.349

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

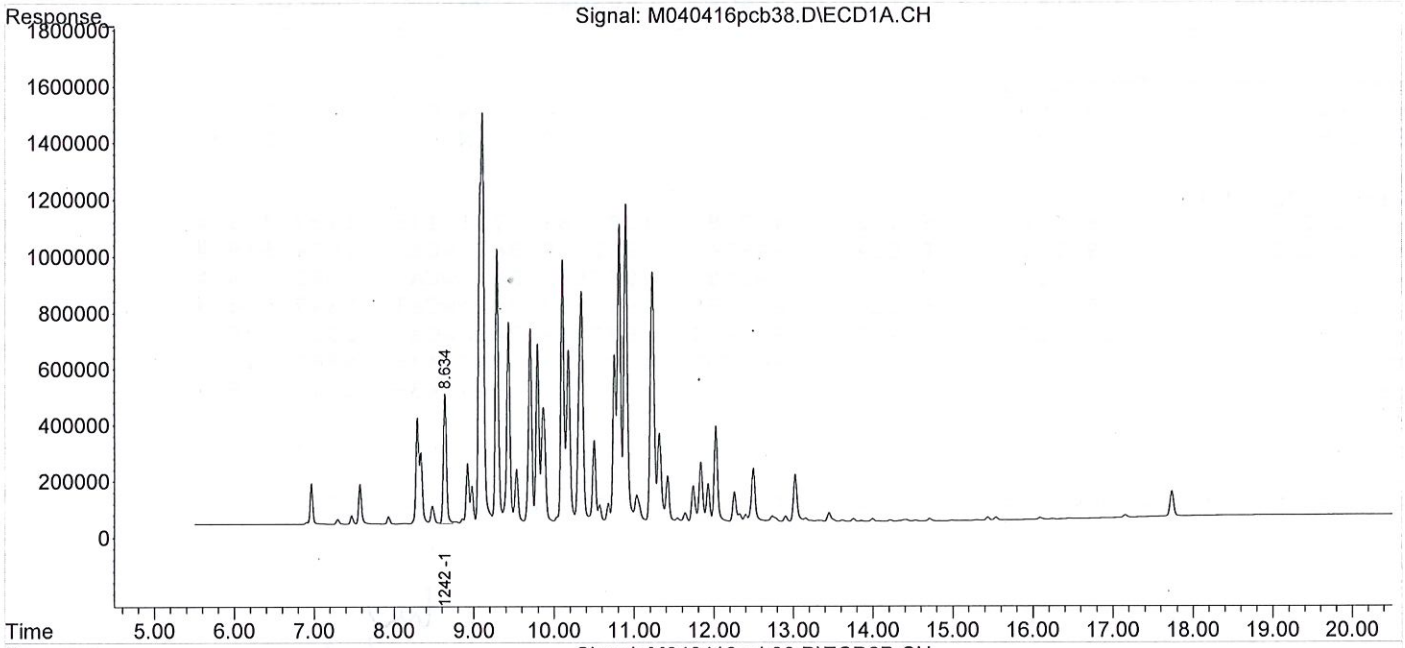
hw
4/12/16

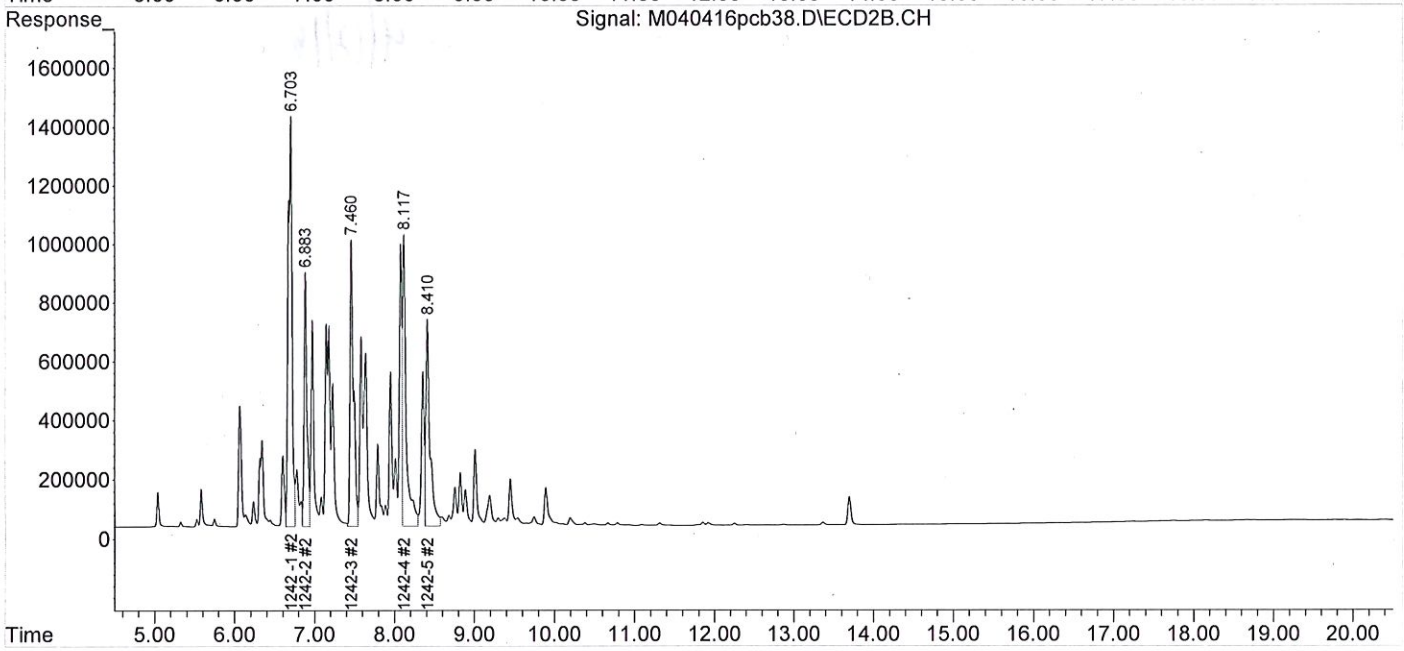
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 2:32 am
Operator : DWOOD
Sample : 16124001
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 32 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:30:27 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 2:32 am
Operator : DWOOD
Sample : 16124001
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 32 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:58:57 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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	11.312	0.000	316883	0	NoCal	N.D.
Target Compounds						
2) L1 1242 -1	8.634	6.702	460781	1397783	751.436	1497.339 #
3) L1 1242-2	9.104	6.884	1448041	858418	BelowCal	1624.539 #
4) L1 1242-3	9.701	7.461	691697	969582	BelowCal	2085.788 #
5) L1 1242-4	10.338	8.117	823188	987697	BelowCal	2347.004 #
6) L1 1242-5	11.223	8.410	892874	696209	BelowCal	2307.076 #
Sum 1242 -1			460781	4909689	747.436	9861.746
Average 1242 -1					747.436	1972.349

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

off Scale needs 1-10 Dilution

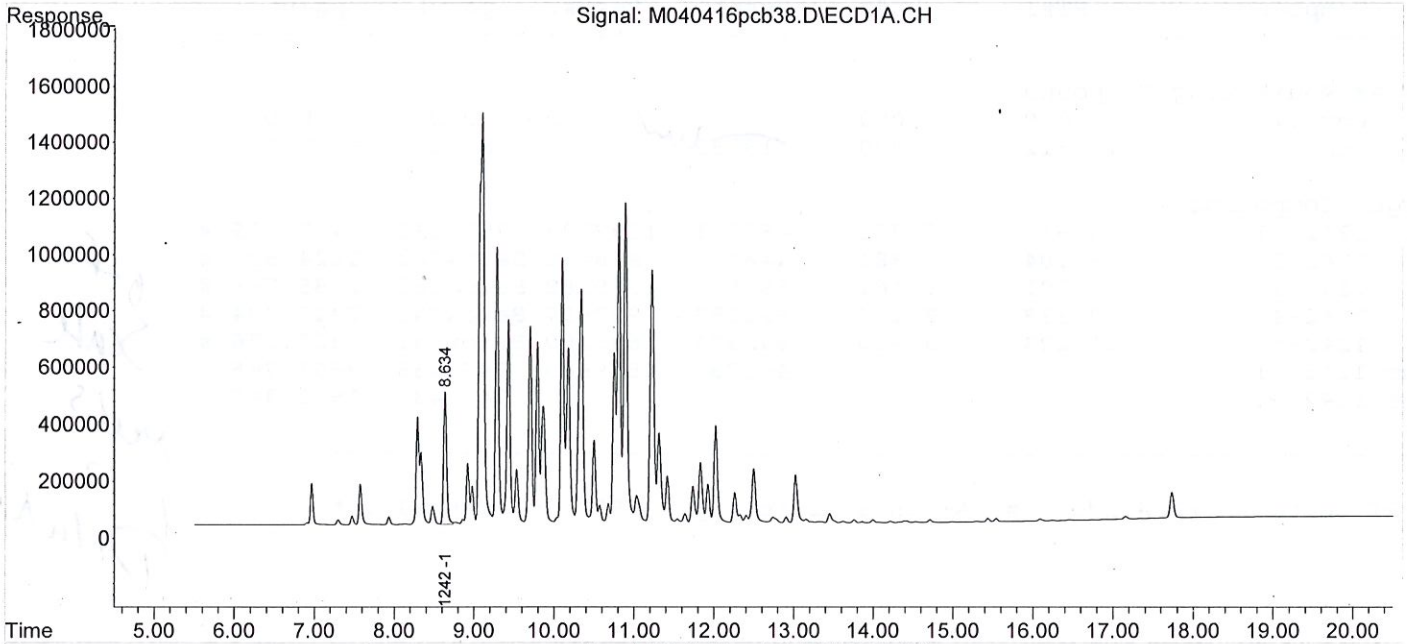
4/11/16

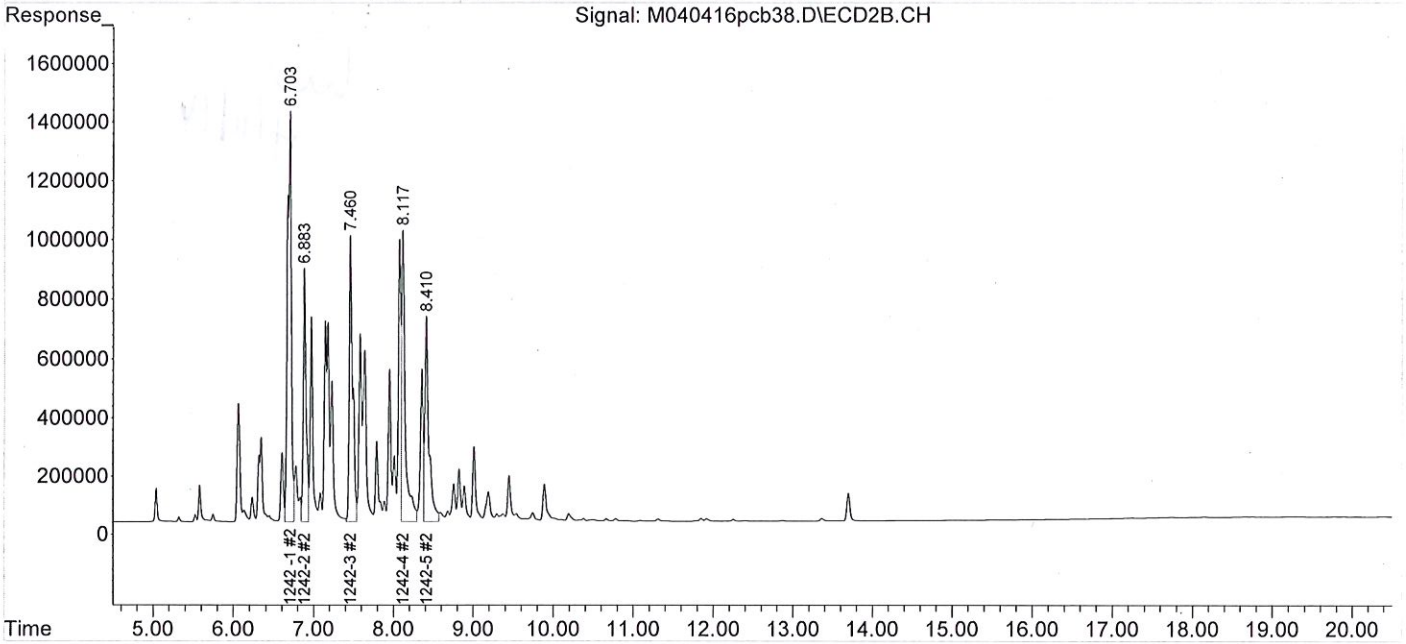
Quantitation Report (Not Reviewed)

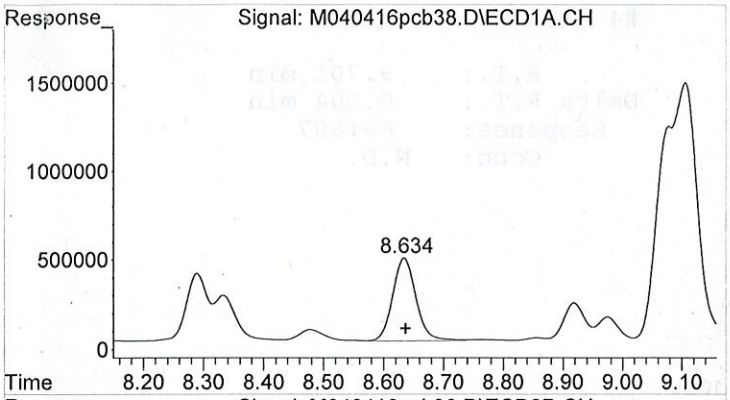
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb38.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 2:32 am
Operator : DWOOD
Sample : 16124001
Misc : Sky Valley PCB Wipe 100mL fv
ALS Vial : 0 (Sig #1); 32 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:58:57 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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

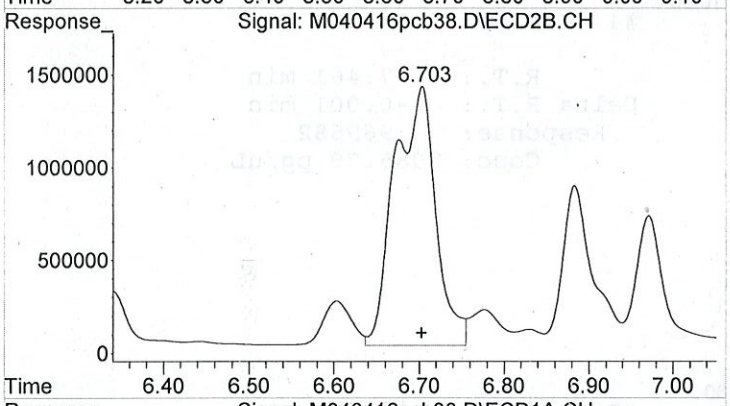






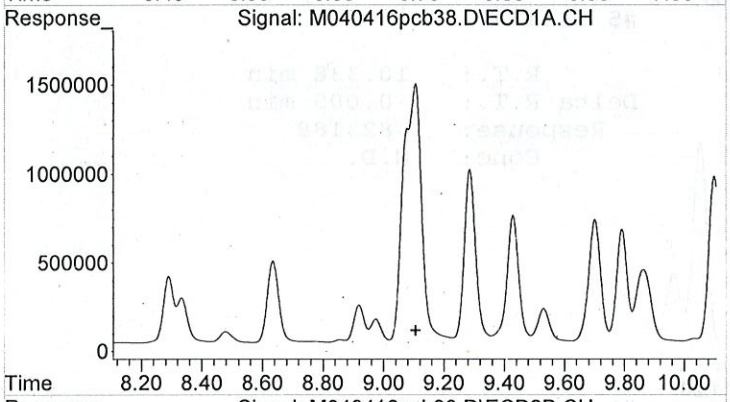
#2 1242 -1

R.T.: 8.634 min
Delta R.T.: -0.003 min
Response: 460781
Conc: 751.44 pg/uL



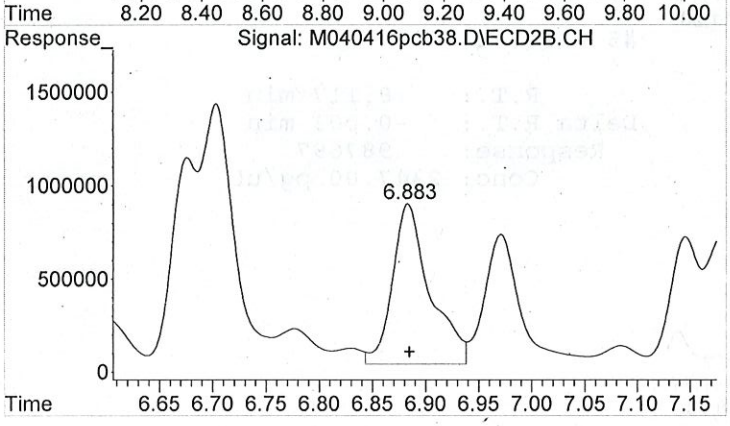
#2 1242 -1

R.T.: 6.702 min
Delta R.T.: 0.000 min
Response: 1397783
Conc: 1497.34 pg/uL



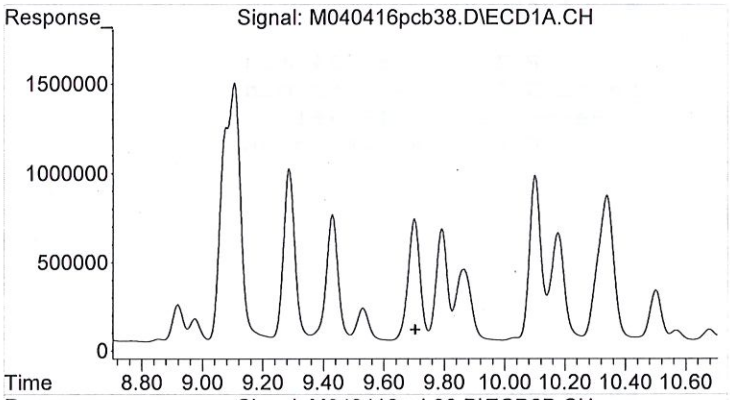
#3 1242-2

R.T.: 9.104 min
Delta R.T.: -0.003 min
Response: 1448041
Conc: N.D.



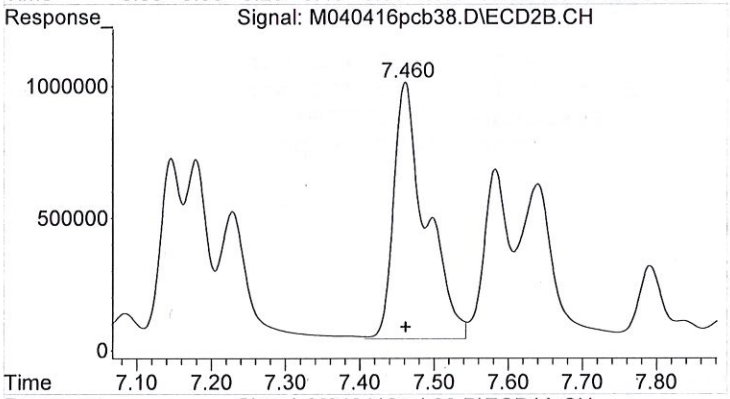
#3 1242-2

R.T.: 6.884 min
Delta R.T.: -0.001 min
Response: 858418
Conc: 1624.54 pg/uL



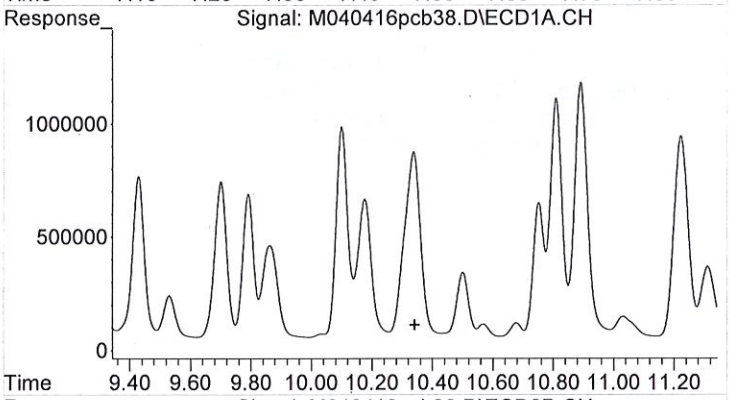
#4 1242-3

R.T.: 9.701 min
Delta R.T.: -0.004 min
Response: 691697
Conc: N.D.



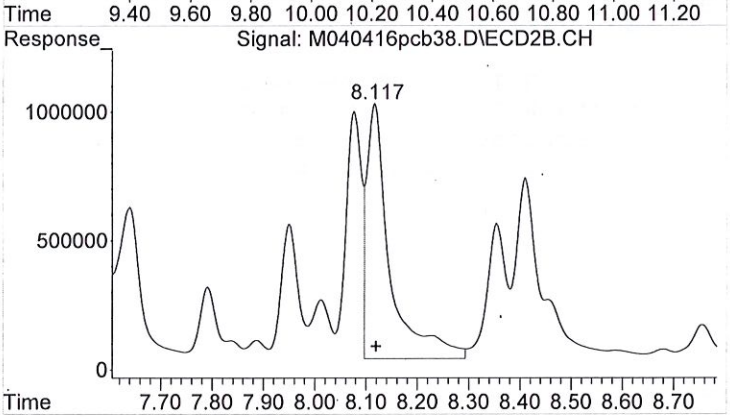
#4 1242-3

R.T.: 7.461 min
Delta R.T.: -0.001 min
Response: 969582
Conc: 2085.79 pg/uL



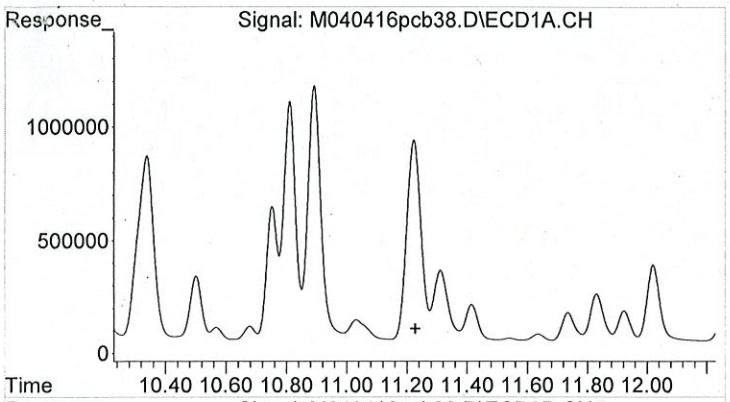
#5 1242-4

R.T.: 10.338 min
Delta R.T.: -0.005 min
Response: 823188
Conc: N.D.



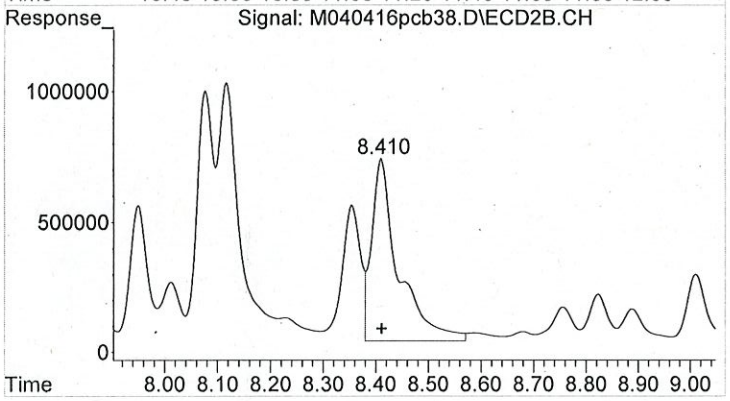
#5 1242-4

R.T.: 8.117 min
Delta R.T.: -0.003 min
Response: 987697
Conc: 2347.00 pg/uL



#6 1242-5

R.T.: 11.223 min
Delta R.T.: -0.006 min
Response: 892874
Conc: N.D.



#6 1242-5

R.T.: 8.410 min
Delta R.T.: -0.002 min
Response: 696209
Conc: 2307.08 pg/uL

PCB CCV Report

Data File....: M040416pcb49.D
Dataname.....: 87PCB032916C
Analyzed.....: 04/05/2016 8:53

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

CCV Level..: 100 pg/uL
ICAL Date..: 04/04/2016

Datafile path....: J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\M040416pcb49.D
DP Method path...: J:\Organics\Minerva\Methods\M040416PCB.M

PCB 1016/1260 Cont Cal 100 pg/uL

CAS #	Compound	RT	Exp RT	Area	Spike (expected)	Amount (pg)	%Diff	Flag
Surrogate					Criteria range: <±20%D			
	tmx (1)	6.96	6.97	469746	10	13.0	30	> ±20%
	dcb	17.73	17.74	278742	10	12.7	27	> ±20%
	tmx (1) #2	5.04	5.04	325882	10	12.0	20	
	dcb #2	13.70	13.70	215770	10	13.1	31	> ±20%
Target					Criteria range: <±20%D			
	1016 -1	8.29	8.29	120059	100	131	31	> ±20%
	1016-2	8.63	8.64	105637	100	132	32	> ±20%
	1016-3	9.29	9.29	136999	100	136	36	> ±20%
	1016-4	9.43	9.43	89489	100	133	33	> ±20%
	1016-5	10.10	10.11	102394	100	136	36	> ±20%
	1260-1	12.90	12.91	233273	100	133	33	> ±20%
	1260-2	13.45	13.45	228374	100	131	31	> ±20%
	1260-3	13.76	13.76	177252	100	134	34	> ±20%
	1260-4	14.22	14.22	168060	100	132	32	> ±20%
	1260-5	14.71	14.72	358133	100	130	30	> ±20%
	1016 -1 #2	5.58	5.58	57063	100	117	17	
	1016-2 #2	6.06	6.07	94456	100	119	19	
	1016-3 #2	6.70	6.70	126365	100	116	16	
	1016-4 #2	6.88	6.89	77282	100	120	20	> ±20%
	1016-5 #2	7.46	7.46	68166	100	122	22	> ±20%
	1260-1 #2	9.30	9.30	118149	100	126	26	> ±20%
	1260-2 #2	9.74	9.74	164996	100	125	25	> ±20%
	1260-3 #2	10.19	10.20	126021	100	121	21	> ±20%
	1260-4 #2	11.31	11.31	225386	100	122	22	> ±20%
	1260-5 #2	11.79	11.80	103610	100	116	16	

Average %Difference:	%Diff	
1016 Column 1 (n=5)	34	>±20%
1016 Column 2 (n=5)	19	
1260 Column 1 (n=5)	32	>±20%
1260 Column 2 (n=5)	22	>±20%

Data Not Reported

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb49.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:53 am
Operator : DWOOD
Sample : 87PCB032916C
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:37 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.963	5.039	469746	325882	12.956	11.964
12)	S2 dcb	17.733	13.699	278742	215770	12.713	13.102
	Target Compounds						
2)	L1 1016 -1	8.288	5.582	120059	57063	130.721	116.892
3)	L1 1016-2	8.634	6.065	105637	94456	131.647	119.385
4)	L1 1016-3	9.287	6.702	136999	126365	136.434	115.926
5)	L1 1016-4	9.430	6.884	89489	77282	133.291	120.040
6)	L1 1016-5	10.102	7.461	102394	68166	136.402	122.418
	Sum 1016 -1			554578	423332	668.496	594.660
	Average 1016 -1					133.699	118.932
7)	L2 1260-1	12.903	9.297	233273	118149	133.356	125.554
8)	L2 1260-2	13.450	9.742	228374	164996	130.650	124.892
9)	L2 1260-3	13.758	10.194	177252	126021	134.444	120.530
10)	L2 1260-4	14.215	11.310	168060	225386	132.150	122.433
11)	L2 1260-5	14.711	11.791	358133	103610	129.651	116.431
	Sum 1260-1			1165092	738162	660.250	609.842
	Average 1260-1					132.050	121.968

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

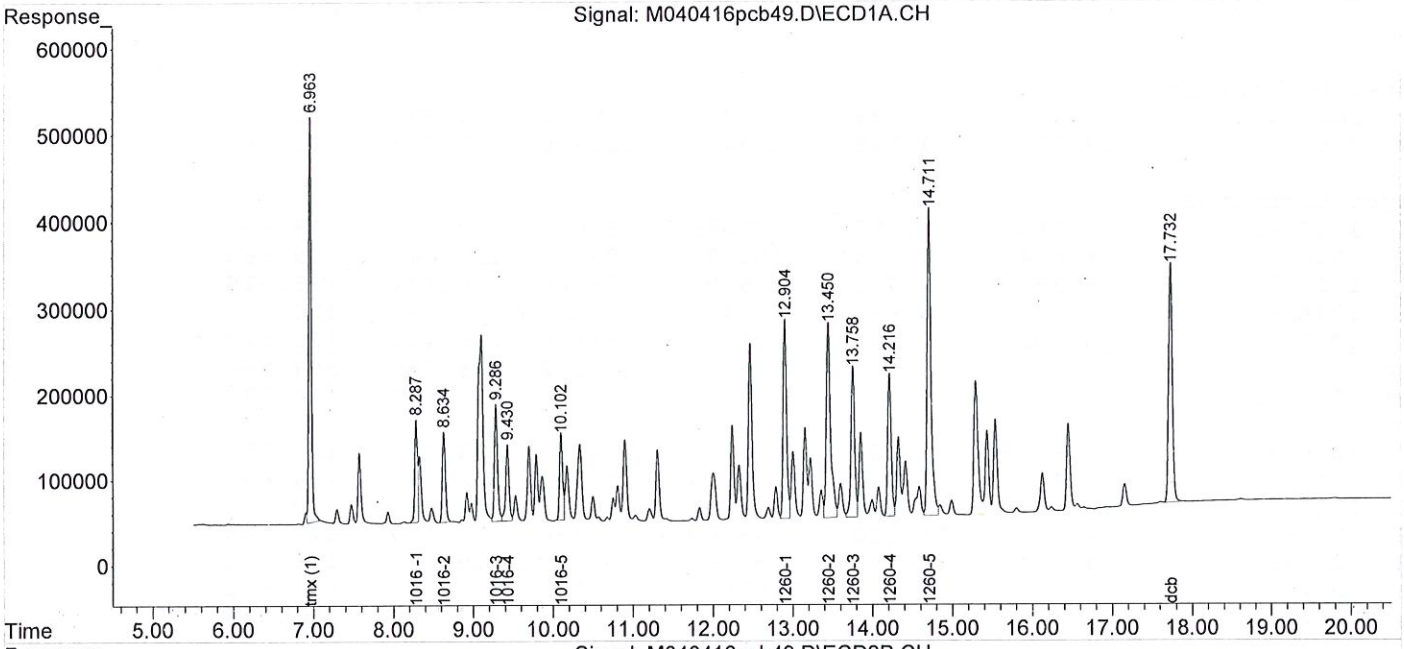
4/26/16

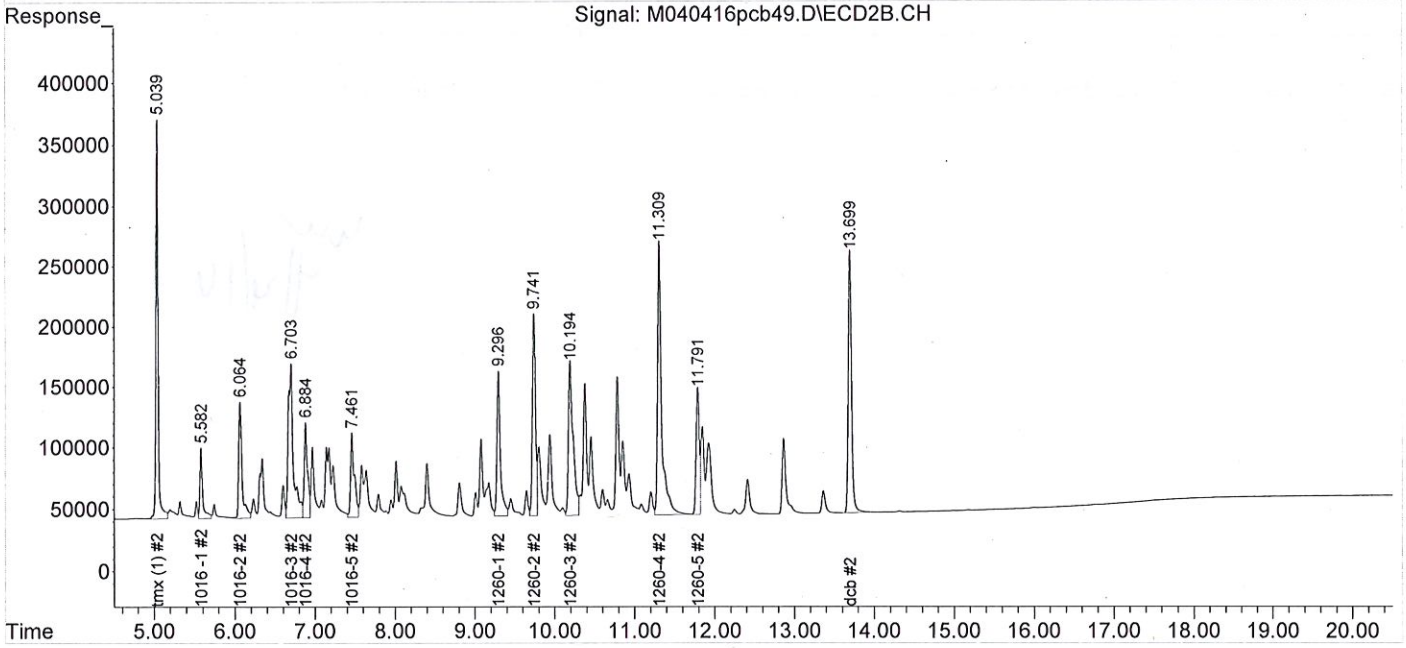
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb49.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:53 am
Operator : DWOOD
Sample : 87PCB032916C
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:37 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb49.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:53 am
Operator : DWOOD
Sample : 87PCB032916C
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:37 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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)	6.963	5.039	469746	325882	12.956	11.964
12) S2 dcb	17.733	13.699	278742	215770	12.713	13.102
Target Compounds						
2) L1 1016 -1	8.288	5.582	120059	57063	130.721	116.892
3) L1 1016-2	8.634	6.065	105637	94456	131.647	119.385
4) L1 1016-3	9.287	6.702	136999	126365	136.434	115.926
5) L1 1016-4	9.430	6.884	89489	77282	133.291	120.040
6) L1 1016-5	10.102	7.461	102394	68166	136.402	122.418
Sum 1016 -1			554578	423332	668.496	594.660
Average 1016 -1					133.699	118.932
7) L2 1260-1	12.903	9.297	233273	118149	133.356	125.554
8) L2 1260-2	13.450	9.742	228374	164996	130.650	124.892
9) L2 1260-3	13.758	10.194	177252	126021	134.444	120.530
10) L2 1260-4	14.215	11.310	168060	225386	132.150	122.433
11) L2 1260-5	14.711	11.791	358133	103610	129.651	116.431
Sum 1260-1			1165092	738162	660.250	609.842
Average 1260-1					132.050	121.968

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

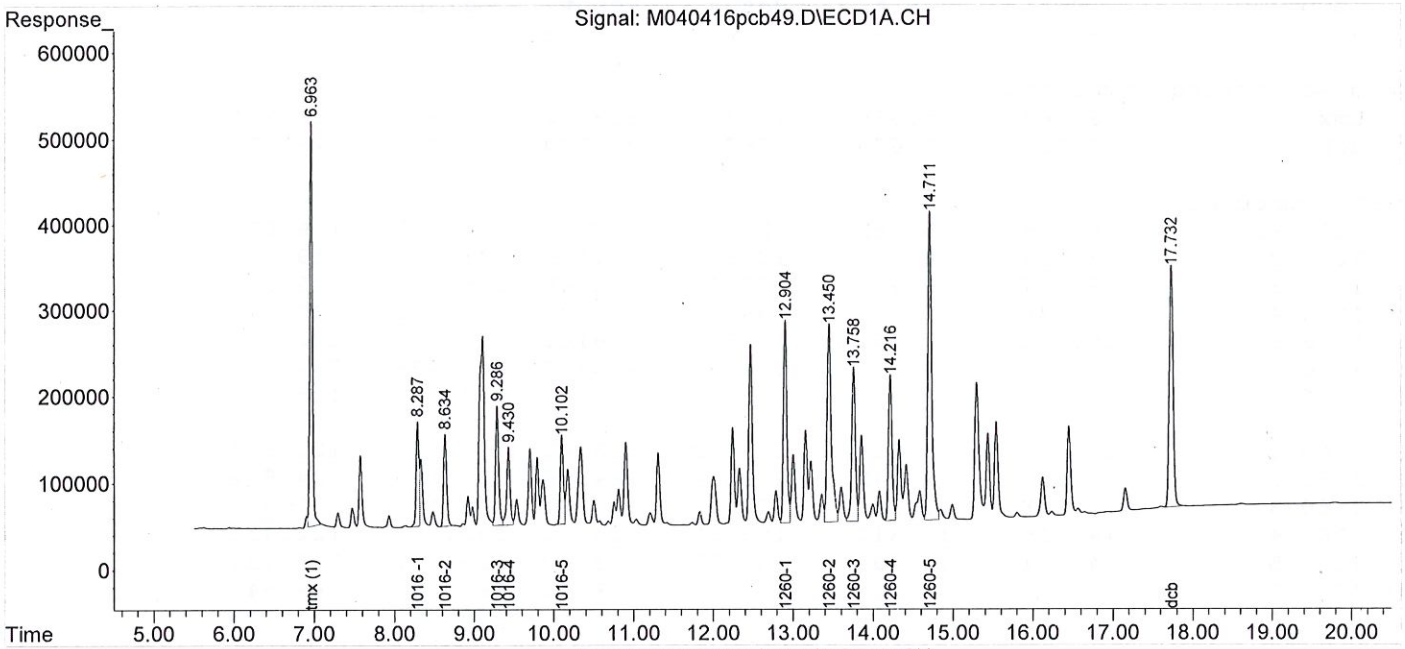
bw
4/6/16

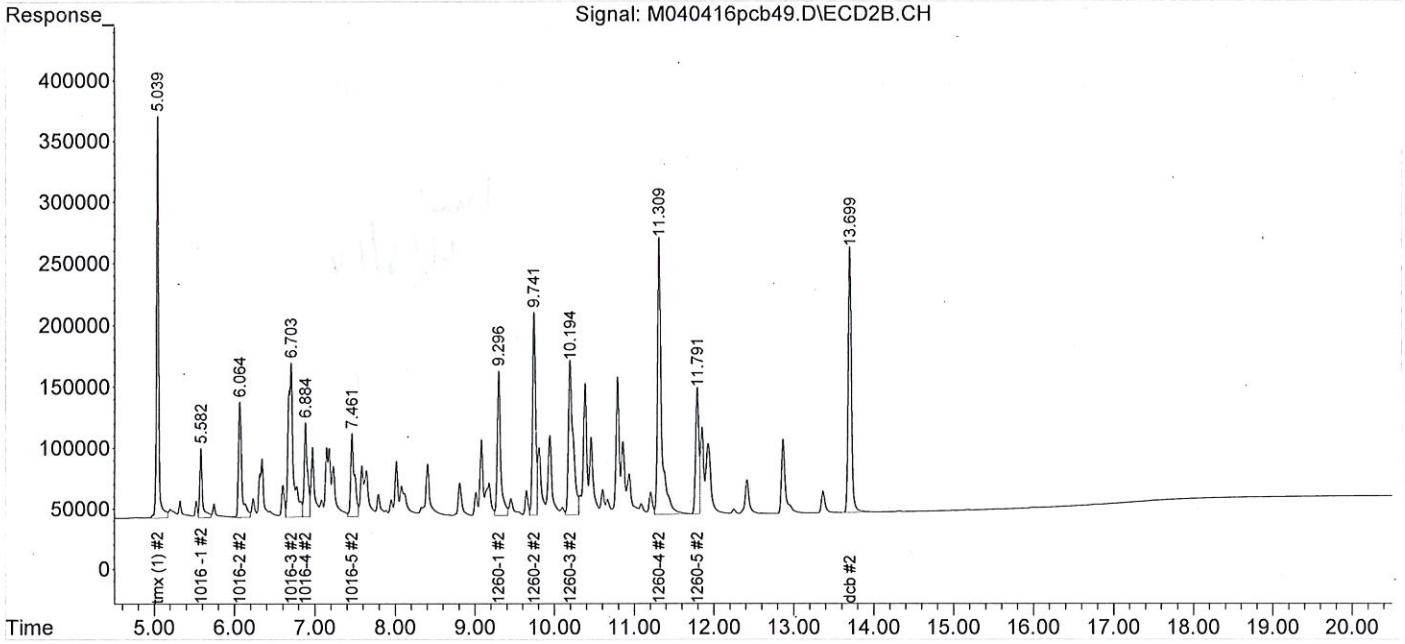
Quantitation Report (Not Reviewed)

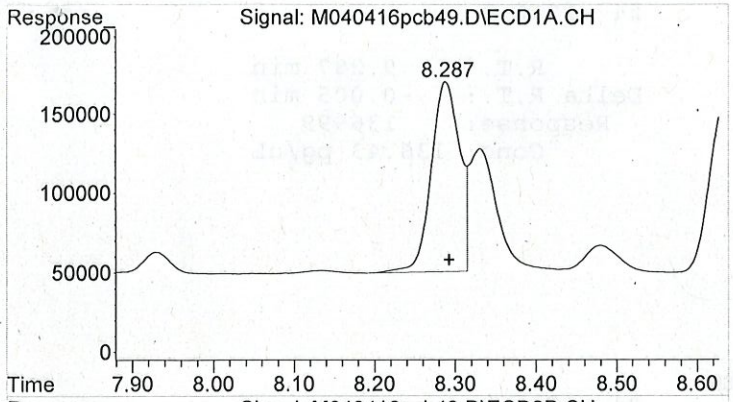
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416PCBDW\
Data File : M040416pcb49.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 8:53 am
Operator : DWOOD
Sample : 87PCB032916C
Misc : PCB 1016/1260 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events3.e
Quant Time: Apr 05 10:29:37 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 04 13:34:11 2016
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

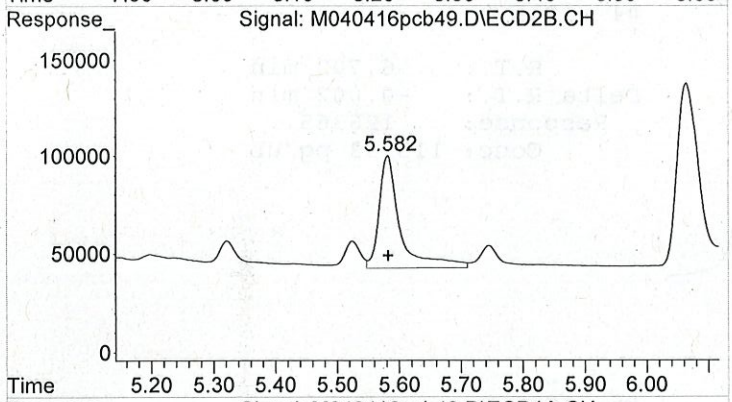






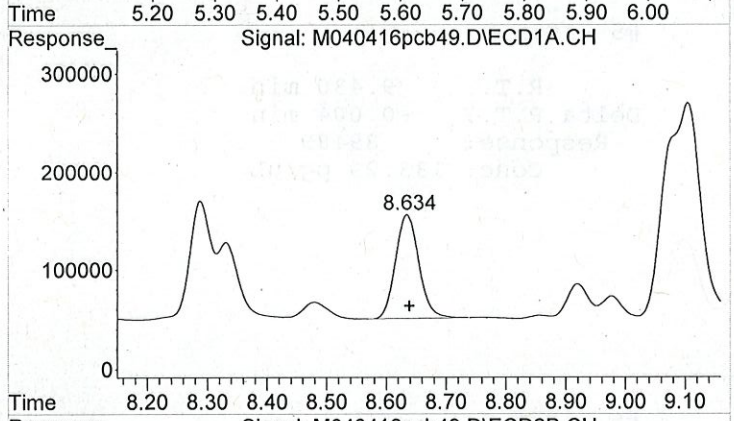
#2 1016 -1

R.T.: 8.288 min
Delta R.T.: -0.005 min
Response: 120059
Conc: 130.72 pg/uL



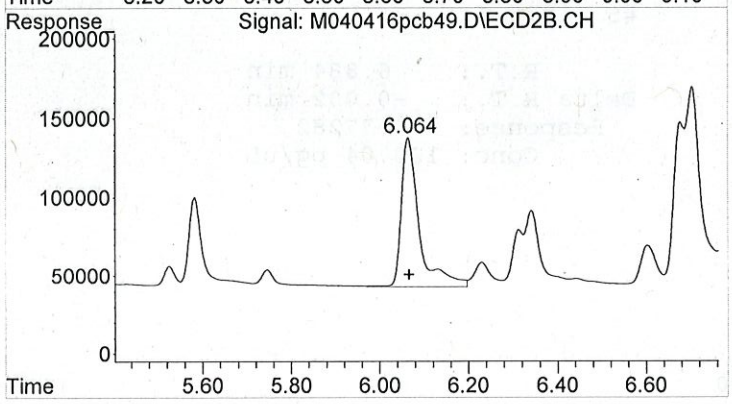
#2 1016 -1

R.T.: 5.582 min
Delta R.T.: 0.000 min
Response: 57063
Conc: 116.89 pg/uL



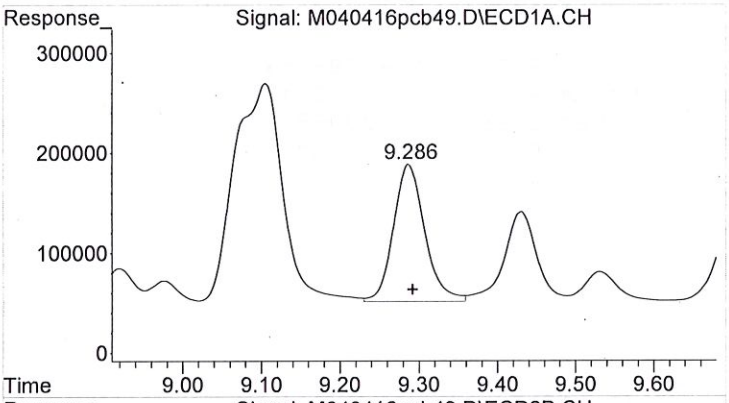
#3 1016-2

R.T.: 8.634 min
Delta R.T.: -0.005 min
Response: 105637
Conc: 131.65 pg/uL



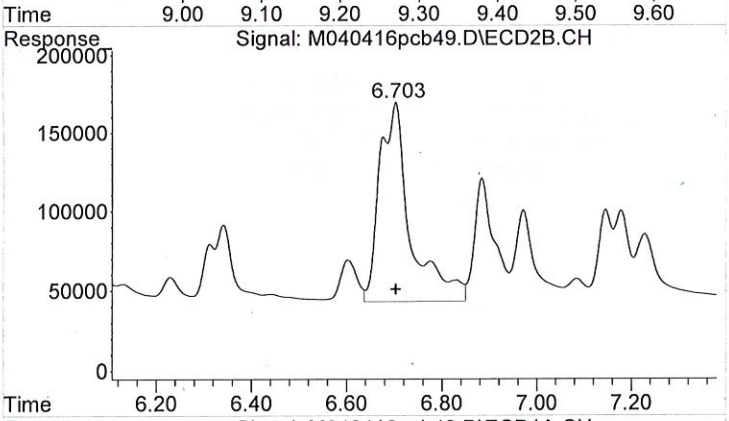
#3 1016-2

R.T.: 6.065 min
Delta R.T.: -0.001 min
Response: 94456
Conc: 119.38 pg/uL



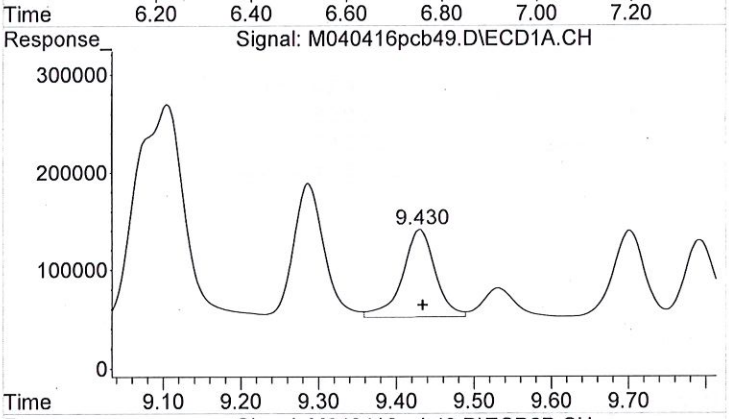
#4 1016-3

R.T.: 9.287 min
Delta R.T.: -0.005 min
Response: 136999
Conc: 136.43 pg/uL



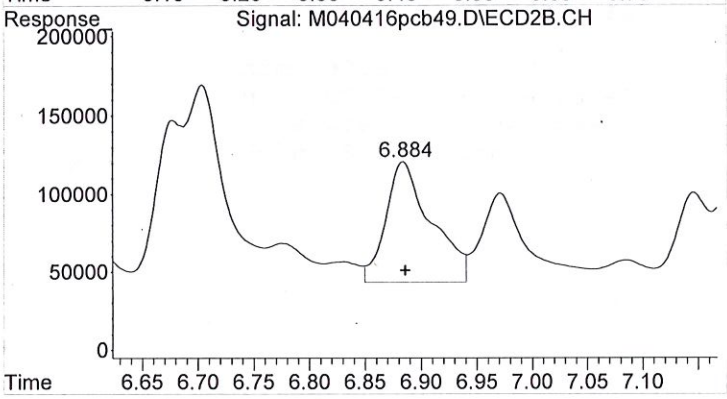
#4 1016-3

R.T.: 6.702 min
Delta R.T.: -0.002 min
Response: 126365
Conc: 115.93 pg/uL



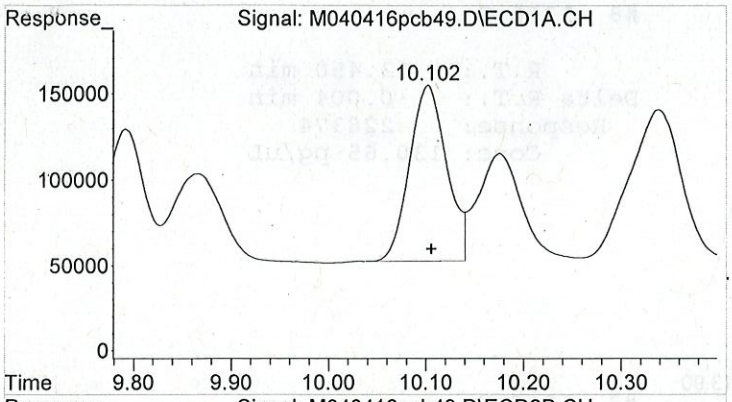
#5 1016-4

R.T.: 9.430 min
Delta R.T.: -0.004 min
Response: 89489
Conc: 133.29 pg/uL



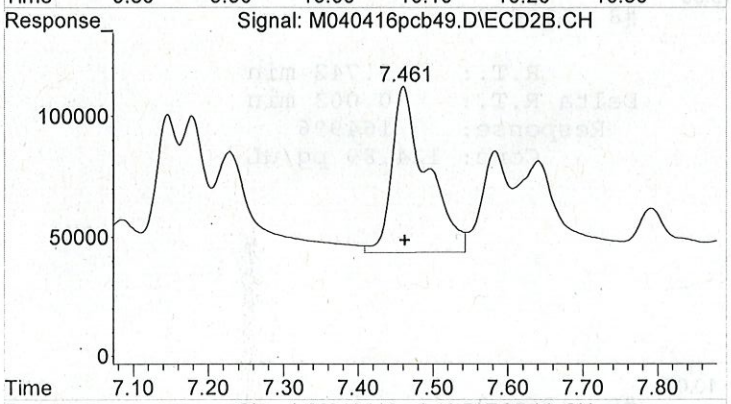
#5 1016-4

R.T.: 6.884 min
Delta R.T.: -0.002 min
Response: 77282
Conc: 120.04 pg/uL



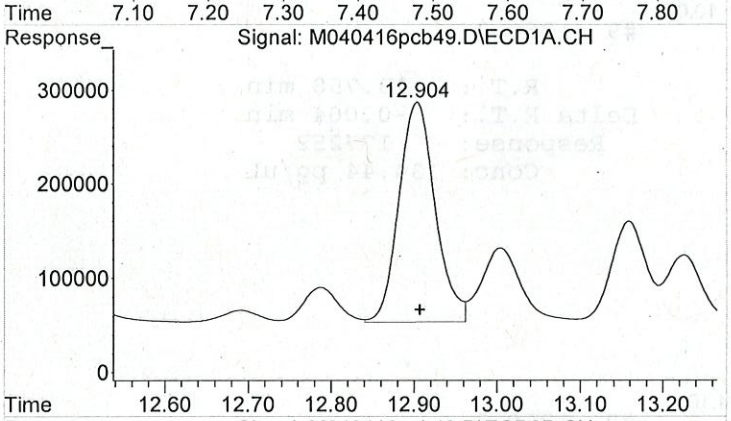
#6 1016-5

R.T.: 10.102 min
Delta R.T.: -0.004 min
Response: 102394
Conc: 136.40 pg/uL



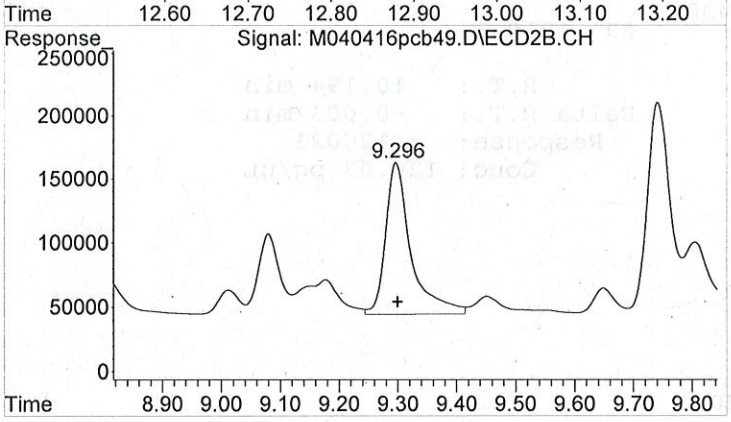
#6 1016-5

R.T.: 7.461 min
Delta R.T.: -0.002 min
Response: 68166
Conc: 122.42 pg/uL



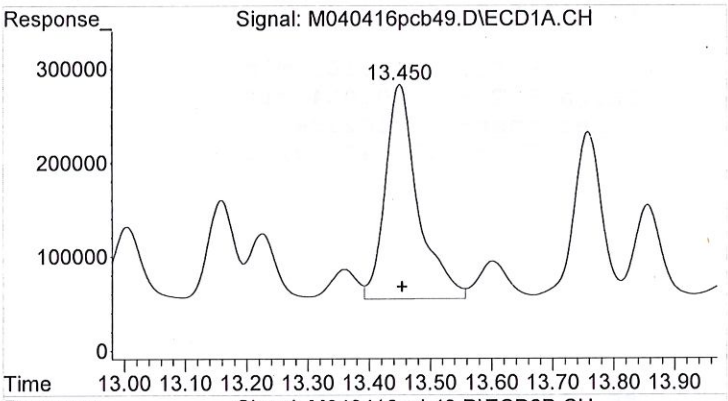
#7 1260-1

R.T.: 12.903 min
Delta R.T.: -0.004 min
Response: 233273
Conc: 133.36 pg/uL



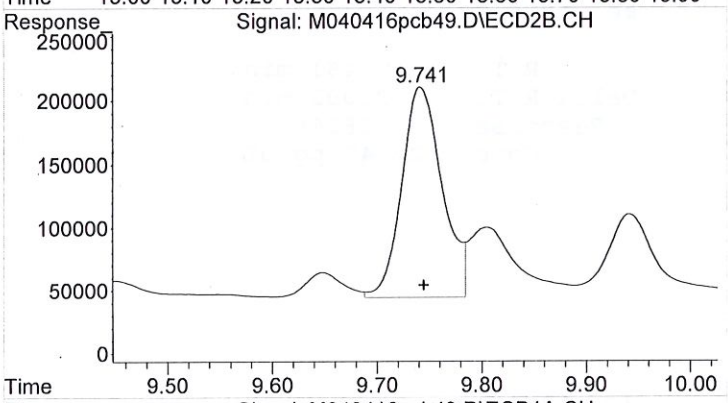
#7 1260-1

R.T.: 9.297 min
Delta R.T.: -0.003 min
Response: 118149
Conc: 125.55 pg/uL



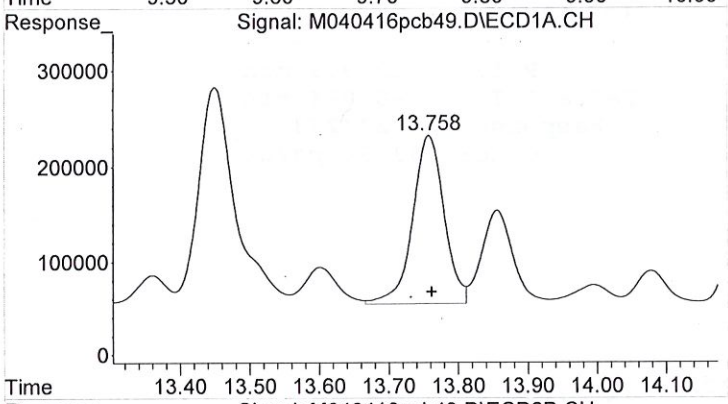
#8 1260-2

R.T.: 13.450 min
Delta R.T.: -0.004 min
Response: 228374
Conc: 130.65 pg/uL



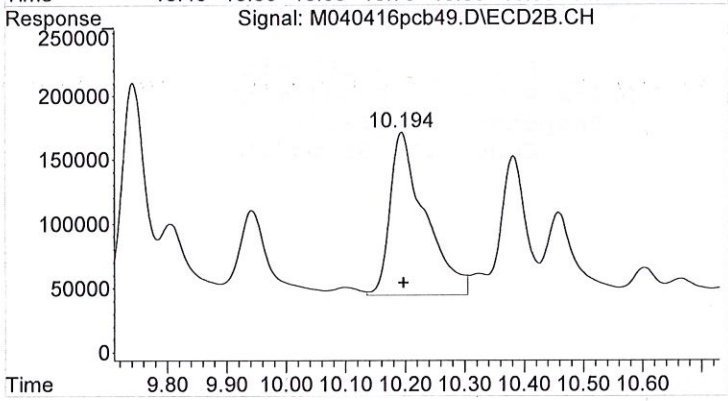
#8 1260-2

R.T.: 9.742 min
Delta R.T.: -0.003 min
Response: 164996
Conc: 124.89 pg/uL



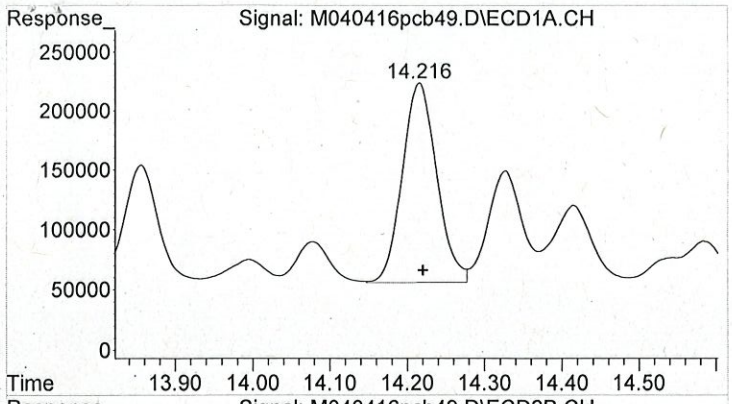
#9 1260-3

R.T.: 13.758 min
Delta R.T.: -0.004 min
Response: 177252
Conc: 134.44 pg/uL



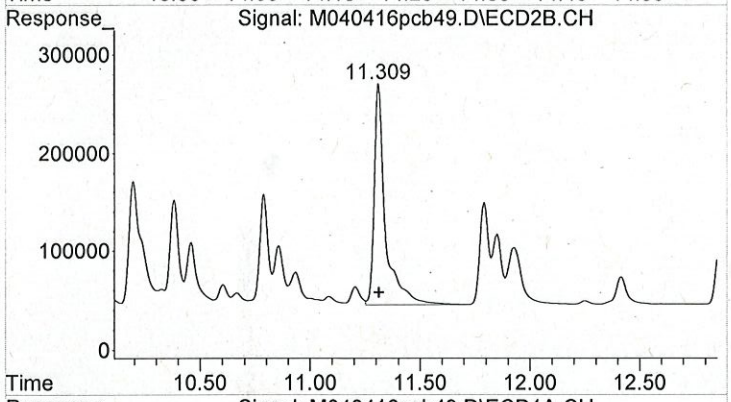
#9 1260-3

R.T.: 10.194 min
Delta R.T.: -0.003 min
Response: 126021
Conc: 120.53 pg/uL



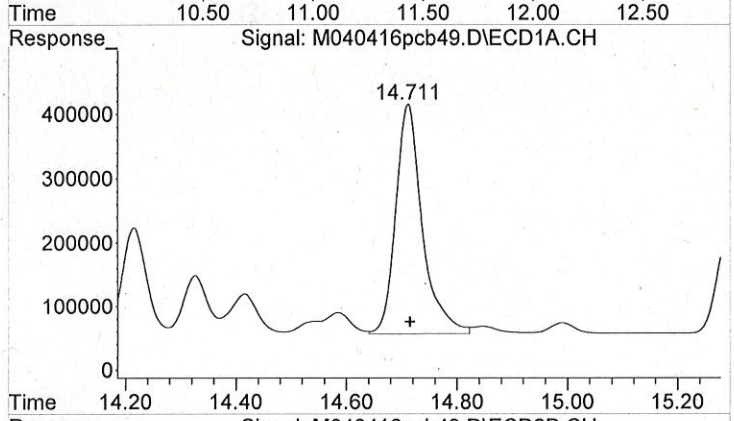
#10 1260-4

R.T.: 14.215 min
Delta R.T.: -0.006 min
Response: 168060
Conc: 132.15 pg/uL



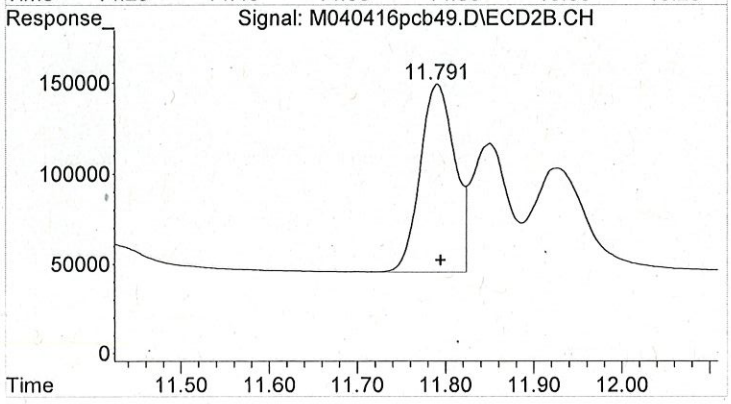
#10 1260-4

R.T.: 11.310 min
Delta R.T.: -0.003 min
Response: 225386
Conc: 122.43 pg/uL



#11 1260-5

R.T.: 14.711 min
Delta R.T.: -0.004 min
Response: 358133
Conc: 129.65 pg/uL



#11 1260-5

R.T.: 11.791 min
Delta R.T.: -0.004 min
Response: 103610
Conc: 116.43 pg/uL

PCB CCV Report

Data File....: M040416pcb52.D
Dataname.....: 87PCB021116D
Analyzed.....: 04/05/2016 10:25

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

CCV Level..: 100 pg/uL
ICAL Date..: 04/04/2016

Datafile path....: J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\M040416pcb52.D
DP Method path...: J:\Organics\Minerva\Methods\M040416PCB1242.M

PCB 1242 Cont Cal 100 pg/uL

CAS #	Compound	RT		Exp RT	Area		Spike (expected)	Amount (pg)	%Diff	Flag
Surrogate							Criteria range: <±20%D			
	tmx (1)	-	>±1%	4.24	-		10	-	-	
	dcb	-	>±1%	11.35	-	m	10	-	-	
	tmx (1) #2	-	>±1%	3.06	-		10	-	-	
	dcb #2	-	>±1%	8.20	-	m	10	-	-	
Target							Criteria range: <±20%D			
	1242 -1	8.64		8.64	85190		100	106	5.9	
	1242-2	9.11		9.11	167169		100	102	2.0	
	1242-3	9.70		9.71	70238		100	111	11	
	1242-4	10.34		10.34	73439		100	107	7.0	
	1242-5	11.23		11.23	74082		100	103	3.5	
	1242 -1 #2	6.70		6.70	106276		100	111	11	
	1242-2 #2	6.88		6.88	65691		100	119	19	
	1242-3 #2	7.46		7.46	59743		100	124	24	> ±20%
	1242-4 #2	8.12		8.12	50549		100	117	17	
	1242-5 #2	8.41		8.41	38931		100	125	25	> ±20%

Average %Difference:	%Diff
1242 Column 1 (n=5)	5.8
1242 Column 2 (n=5)	19

Data
Not Reported
MW

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb52.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 10:25 am
Operator : DWOOD
Sample : 87PCB021116D
Misc : PCB 1242 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:40:29 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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 1242 -1	8.636	6.703	85190	106276	105.892	111.491
3) L1 1242-2	9.105	6.885	167169	65691	102.026	118.857
4) L1 1242-3	9.703	7.462	70238	59743	110.598	123.712
5) L1 1242-4	10.340	8.119	73439	50549	107.022	117.450
6) L1 1242-5	11.226	8.412	74082	38931	103.490	125.254
Sum 1242 -1			470118	321190	529.029	596.763
Average 1242 -1					105.806	119.353

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

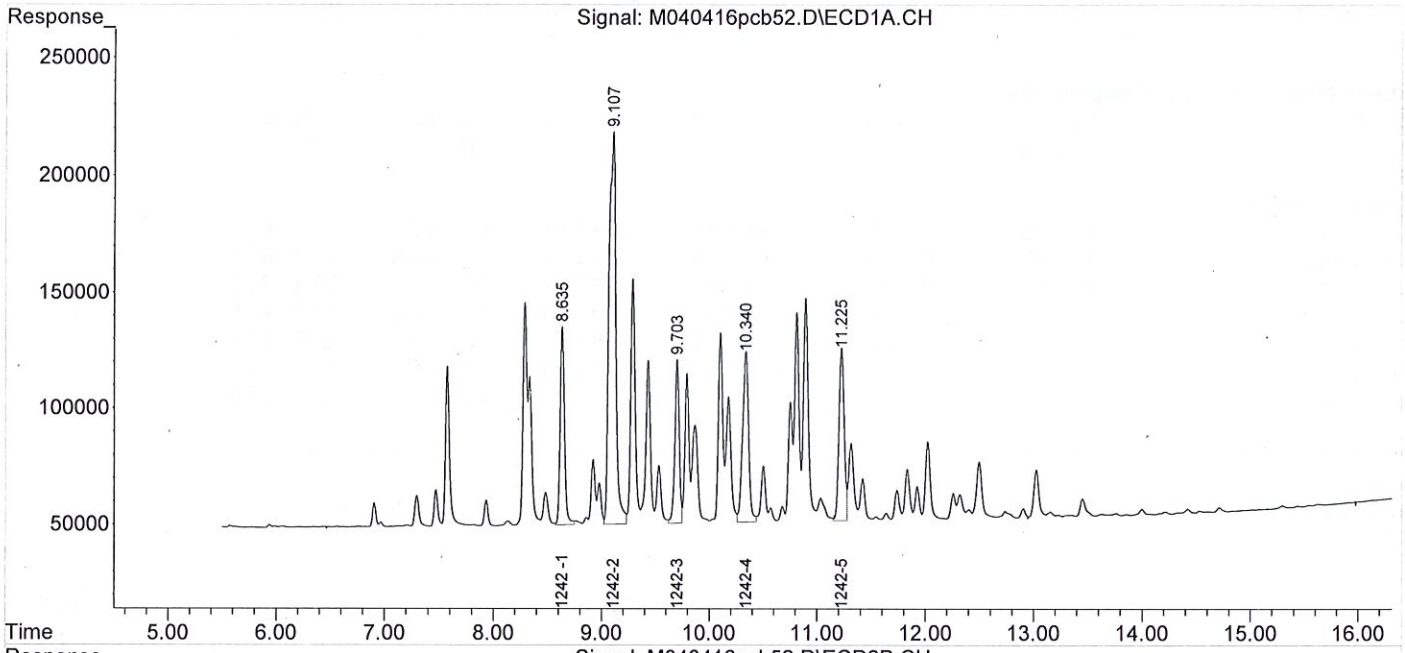
lw
4/12/16

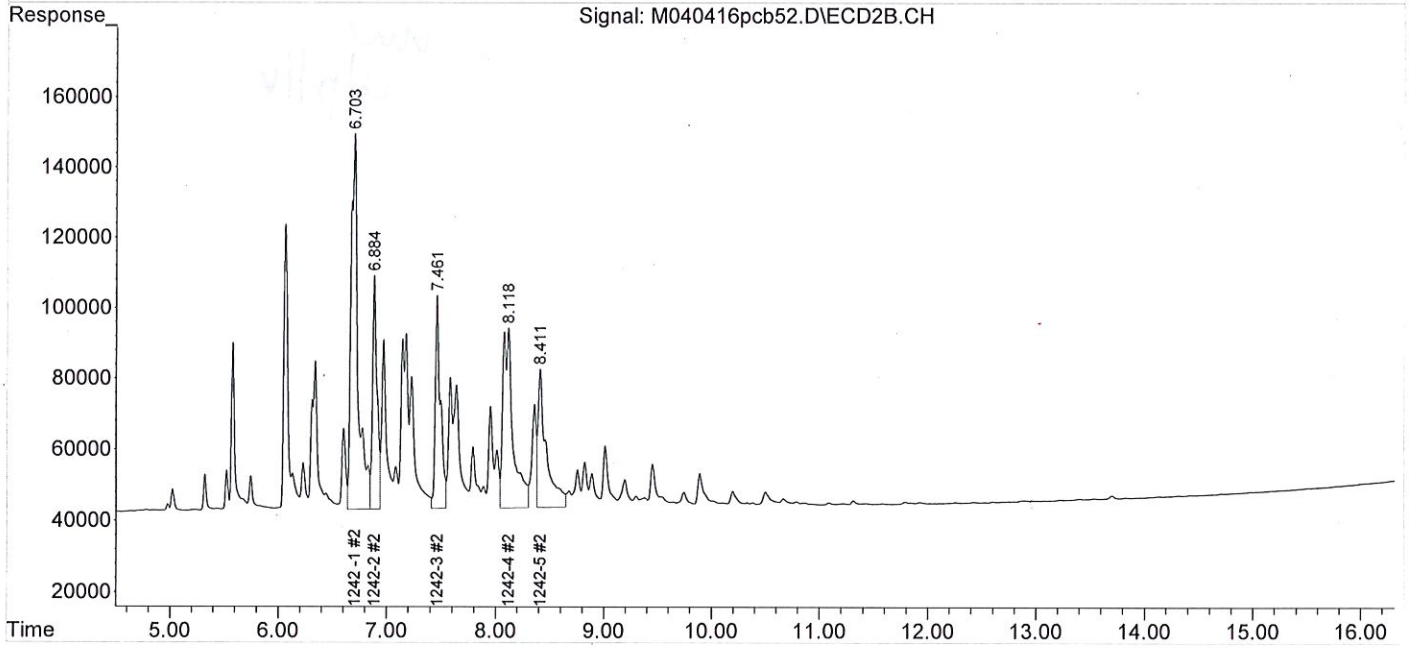
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb52.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 10:25 am
Operator : DWOOD
Sample : 87PCB021116D
Misc : PCB 1242 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 16:40:29 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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





Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb52.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 10:25 am
Operator : DWOOD
Sample : 87PCB021116D
Misc : PCB 1242 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:45 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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	11.313	0.000	32746	0	NoCal	N.D.
Target Compounds						
2) L1 1242 -1	8.636	6.703	85190	106276	105.892	111.491
3) L1 1242-2	9.105	6.885	167169	65691	102.026	118.857
4) L1 1242-3	9.703	7.462	70238	59743	110.598	123.712
5) L1 1242-4	10.340	8.119	73439	50549	107.022	117.450
6) L1 1242-5	11.226	8.412	74082	38931	103.490	125.254
Sum 1242 -1			470118	321190	529.029	596.763
Average 1242 -1					105.806	119.353

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

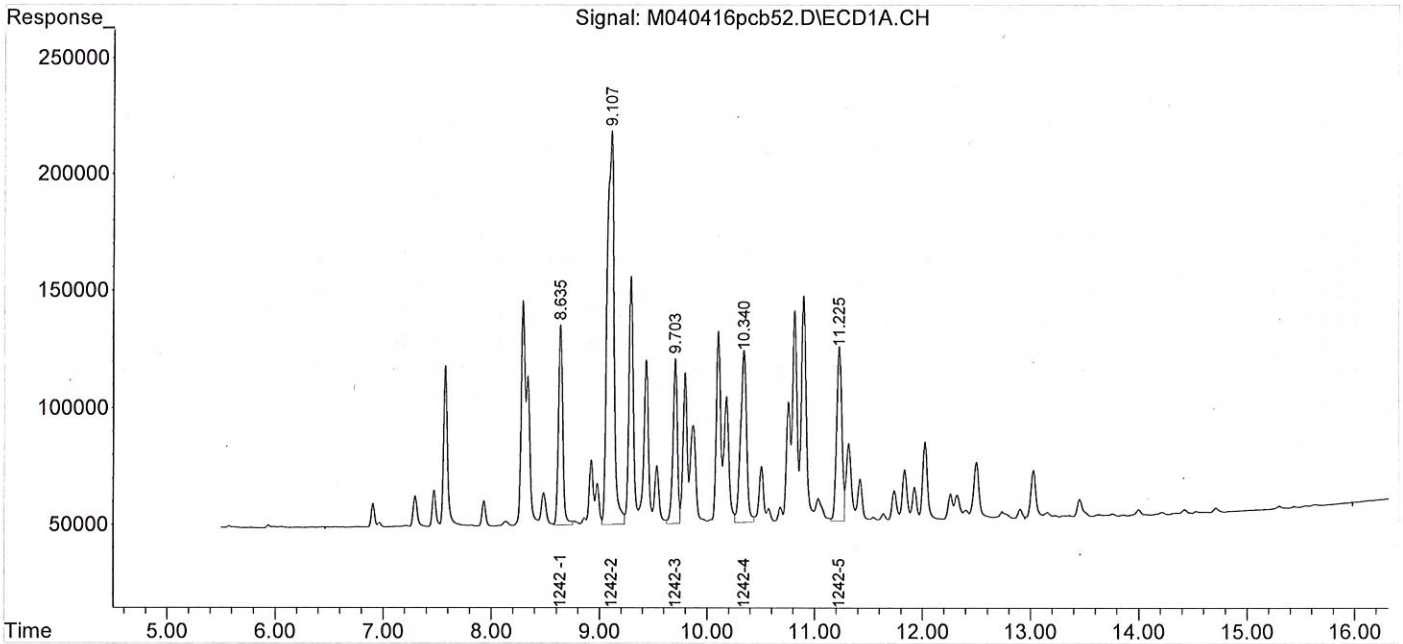
LW
4/11/16

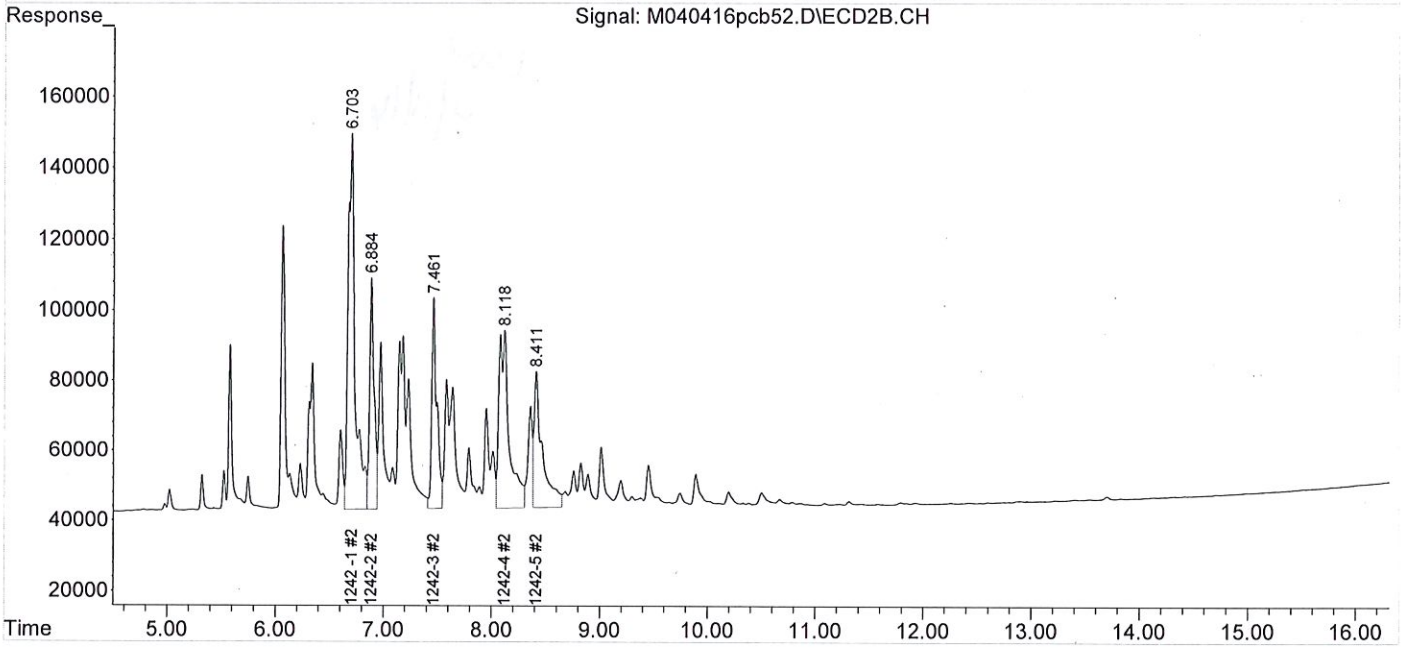
Quantitation Report (Not Reviewed)

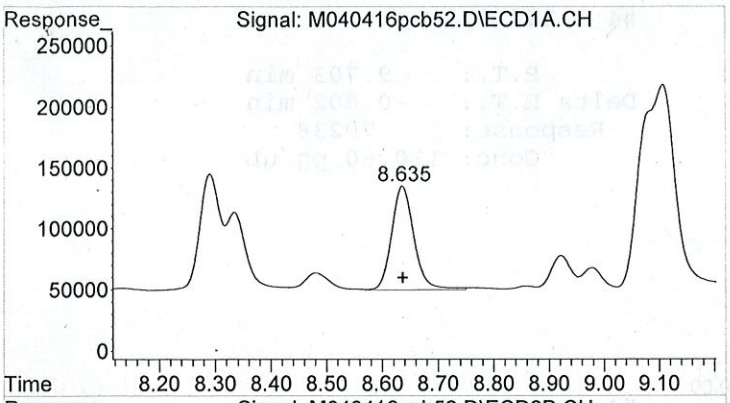
Data Path : J:\Organics\Minerva\MINERVA 2016 DATA\M040416pcb1242dw\
Data File : M040416pcb52.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 05 Apr 2016 10:25 am
Operator : DWOOD
Sample : 87PCB021116D
Misc : PCB 1242 Cont Cal 100 pg/uL
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events3.e
Integration File signal 2: events3.e
Quant Time: Apr 11 15:59:45 2016
Quant Method : J:\Organics\Minerva\Methods\M040416PCB1242.M
Quant Title : AROCLOR 1254 ANALYSIS
QLast Update : Mon Apr 11 15:39:43 2016
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

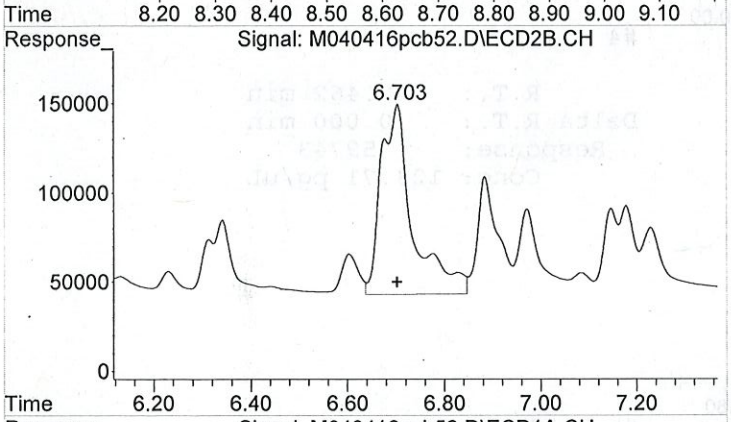






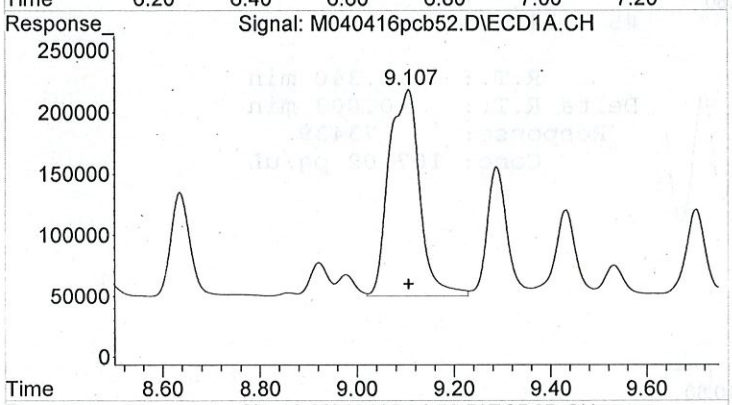
#2 1242 -1

R.T.: 8.636 min
Delta R.T.: 0.000 min
Response: 85190
Conc: 105.89 pg/uL



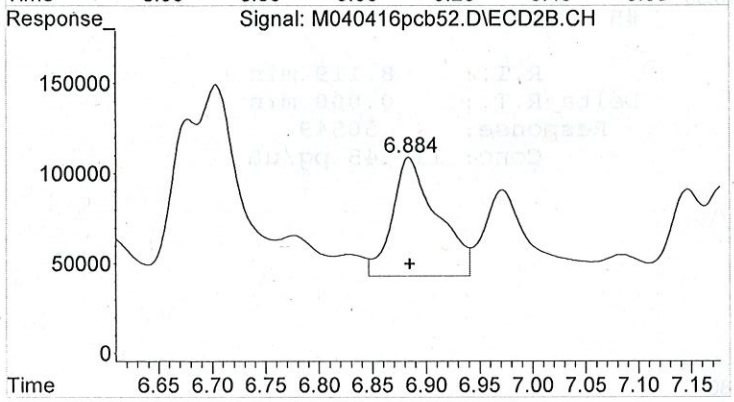
#2 1242 -1

R.T.: 6.703 min
Delta R.T.: 0.000 min
Response: 106276
Conc: 111.49 pg/uL



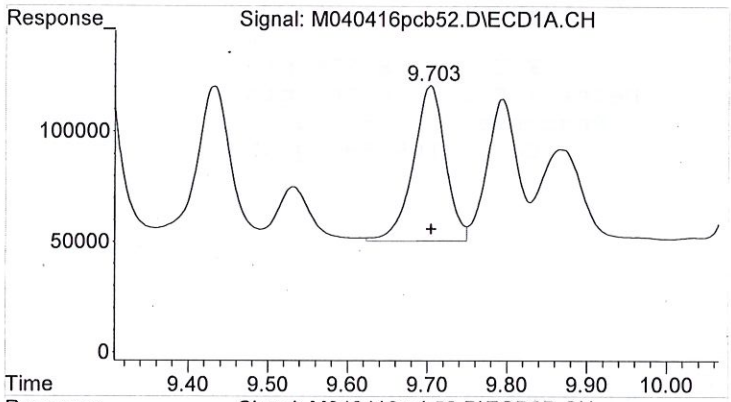
#3 1242-2

R.T.: 9.105 min
Delta R.T.: -0.002 min
Response: 167169
Conc: 102.03 pg/uL



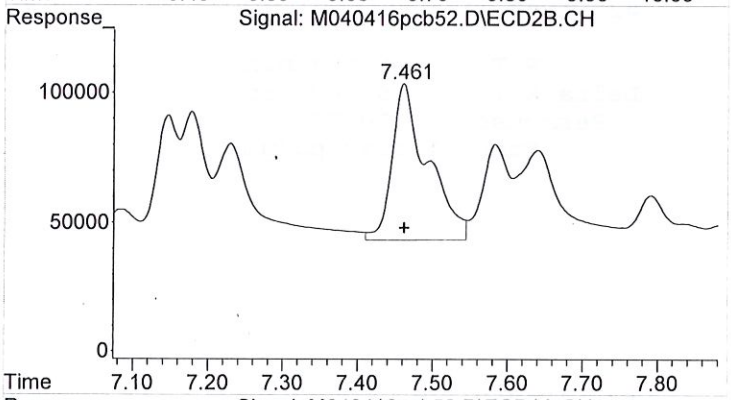
#3 1242-2

R.T.: 6.885 min
Delta R.T.: 0.000 min
Response: 65691
Conc: 118.86 pg/uL



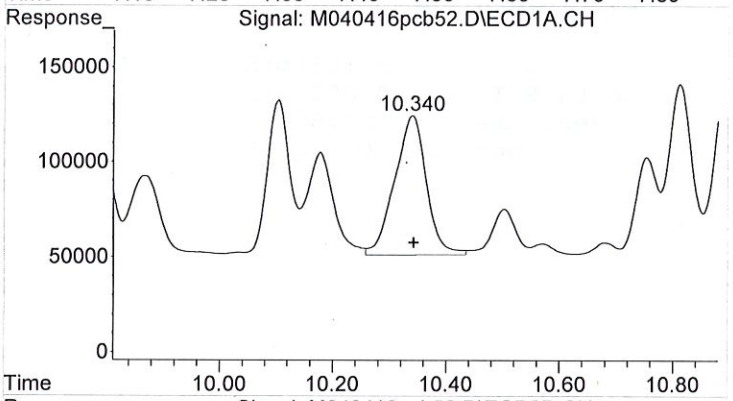
#4 1242-3

R.T.: 9.703 min
Delta R.T.: -0.002 min
Response: 70238
Conc: 110.60 pg/uL



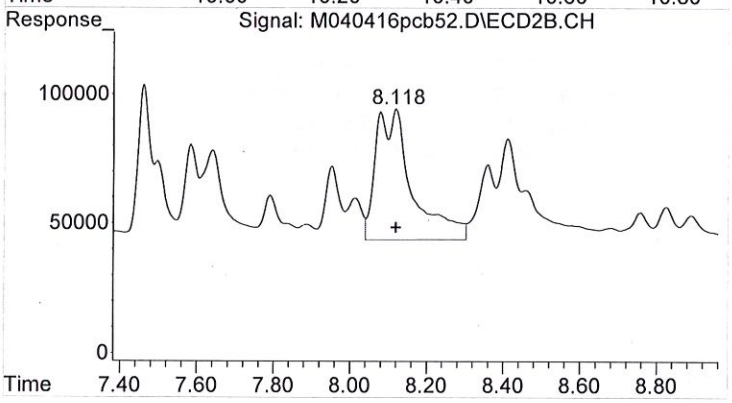
#4 1242-3

R.T.: 7.462 min
Delta R.T.: 0.000 min
Response: 59743
Conc: 123.71 pg/uL



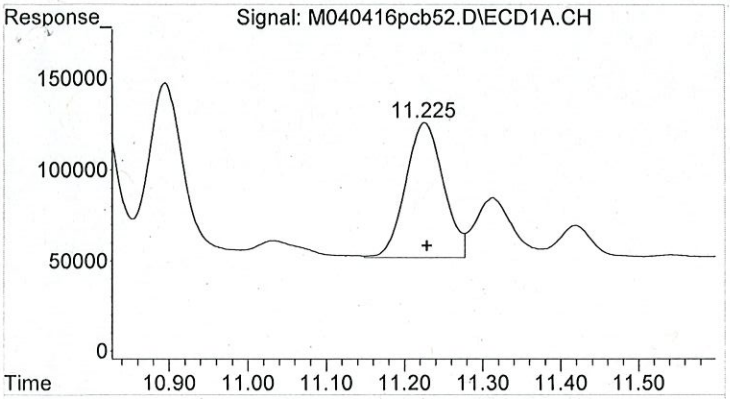
#5 1242-4

R.T.: 10.340 min
Delta R.T.: -0.003 min
Response: 73439
Conc: 107.02 pg/uL



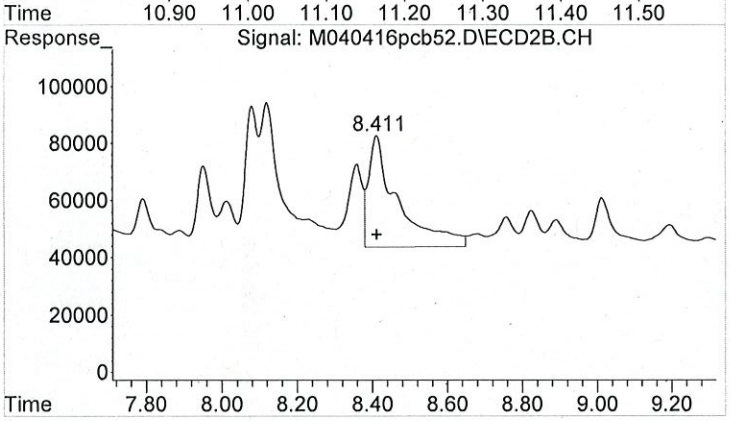
#5 1242-4

R.T.: 8.119 min
Delta R.T.: 0.000 min
Response: 50549
Conc: 117.45 pg/uL



#6 1242-5

R.T.: 11.226 min
Delta R.T.: -0.003 min
Response: 74082
Conc: 103.49 pg/uL



#6 1242-5

R.T.: 8.412 min
Delta R.T.: 0.000 min
Response: 38931
Conc: 125.25 pg/uL