- Analyst Case Narrative

R10 Organics Data Package Checklist

Project: Sky Valley		**Project Code:** CIN-065Q	
Parameter: PCB		**SOP(s):** Or_P3580, Or_P3541, Or_8082A	
Analyst: DWOOD	**Date:** 12/12/2019	**Reviewer:** Chris Pace	**Date:** 12/13/19

		Comments/Deficiencies:
	1. Multi-anlayte verification reports	
x	*Present and correct for each sample, including QC*	
	2. Batch summaries	
x	*Analysis log (method indicated and initialed)*	
n/a	*Internal Standard/Surrogate Spike Summaries, if applicable*	
	3. BFB/DFTPP tune, *if applicable*	
n/a	*Tune summary reports (meets SOP ion abundance and 12hr criteria)*	
	4. Initial Calibration	
x	*Calibration report (meets SOP criteria)*	
x	*RRF report, if applicable (meets SOP criteria)*	
x	*%Difference report (meets SOP criteria)*	
x	*Second source verification (meets SOP criteria)*	
x	*Quantitation reports (detailed)*	
x	*Compound retention time/identification verified*	
	5. Continuing Calibration	
x	*Continuing calibration %D report (meets SOP criteria)*	
x	*Continuing calibration RRF report, if applicable (meets SOP criteria)*	
x	*Quantitation reports (detailed)*	
x	*Compound retention time/identification verified*	
	6. Samples	Samples 19434312, 13 and 14 are Air filter samples. They were processed as solid samples to get them through the Chemstation Macros. The samples were changed to air filters in the LIMS text file before downloading.
x	*Sample results summary*	
x	*Quantitation reports (detailed)*	
x	*Compound retention time/identification verified*	
	7. Blanks	
x	*Sample results summary (meets SOP criteria)*	
x	*Quantitation reports (detailed)*	

	8. LCS/LCSD	
x	*LCS/LCSD summary (meets SOP criteria)*	
x	*LCS/LCSD meets QAPP criteria*	
x	*Sample results summary*	
x	*Quantitation reports (detailed)*	
	9. MS/MSD, *if applicable*	
n/a	*MS/MSD summary (meets SOP criteria)*	
n/a	*MS/MSD meets QAPP criteria*	
n/a	*Sample results summary*	
n/a	*Quantitation reports (detailed)*	
	10. Duplicates, *if applicable*	
n/a	*Duplicates summary (meets SOP criteria)*	
n/a	*Duplicates meets QAPP criteria*	
n/a	*Sample results summary*	
n/a	*Quantitation reports (detailed)*	
	11. Surrogates	
x	*Surrogates (meets SOP criteria)*	
	12. Internal Standards, *if applicable*	
n/a	*Internal Standards (meets SOP criteria)*	
	13. Supporting data	
x	*Extraction documentation*	
x	*Standards documentation*	
x	*Certificate of Analysis on "G" drive*	
x	*Chain-of-Custodies*	
	14. Supplemental Data	
____	*IDOC/LOD/LOQ*	
____	*Other runs not reported*	
____	**15. Raw data agree with LIMS output**	
Corrective Action Narrative initiated:___Yes___No		no

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

Sky Valley Education Center Preliminary PCB Results

Wipe Samples

Sample	Aroclor 1016 ug/wipe	Aroclor 1221 ug/wipe	Aroclor 1232 ug/wipe	Aroclor 1242 ug/wipe	Aroclor 1248 ug/wipe	Aroclor 1254 ug/wipe	Aroclor 1260 ug/wipe
19434301	0.25U	0.25U	0.25U	**1.3**	0.25U	0.25U	0.25U
19434303	0.25U	0.25U	0.25U	**20**	0.25U	0.25U	0.25U
19434304	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
19434305	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
19434306	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
19434307	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
19434308	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
19434309	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
19434310	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U

Solid Samples

Sample	Aroclor 1016 mg/kg	Aroclor 1221 mg/kg	Aroclor 1232 mg/kg	Aroclor 1242 mg/kg	Aroclor 1248 mg/kg	Aroclor 1254 mg/kg	Aroclor 1260 mg/kg
~~19434301~~ 2	0.13U	0.13U	0.13U	**8.2**	0.13U	0.13U	0.13U
19434~~03~~ 11	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U	0.13U

Contact: Gerald Dodo, Supervisory Chemist, USEPA, (360) 871-8728

The information in this report is being supplied to you at your request as 'Preliminary Results'. Results have not undergone the same level of review as a final report. Once all reviews have taken place, it is possible that results in the final report may vary from those in this report.

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

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
13 Nov 2019 10:55 am	M111319a01.D	87PCB032819D	Instrument Blank 100pg/ul	.
13 Nov 2019 11:20 am	M111319a02.D	87PCB032819M	PCB 1016/1260 Cont Cal 100 pg/uL	.
13 Nov 2019 11:44 am	M111319a03.D	92O110419B1	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 12:09 pm	M111319a04.D	92O110419L1	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 12:33 pm	M111319a05.D	92O110419L2	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 12:58 pm	M111319a06.D	19434301	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 13:23 pm	M111319a07.D	19434303	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 13:47 pm	M111319a08.D	19434304	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 14:12 pm	M111319a09.D	19434305	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 14:37 pm	M111319a10.D	19434306	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 15:01 pm	M111319a11.D	19434307	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 15:26 pm	M111319a12.D	19434308	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 15:51 pm	M111319a13.D	19434309	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 16:15 pm	M111319a14.D	19434310	SKY Valley PCB Wipes 10mL fv	.
13 Nov 2019 16:40 pm	M111319a15.D	87PCB032819D	Instrument Blank 100pg/ul	.
13 Nov 2019 17:04 pm	M111319a16.D	87PCB032819M	PCB 1016/1260 Cont Cal 100 pg/uL	.
13 Nov 2019 17:29 pm	M111319a17.D	92S110719B1	SKY Valley PCB Solid 2g 2mL fv	.
13 Nov 2019 17:53 pm	M111319a18.D	92S110719L1	SKY Valley PCB Solid 2g 2mL fv	.
13 Nov 2019 18:18 pm	M111319a19.D	92S110719L2	SKY Valley PCB Solid 2g 2mL fv	.
13 Nov 2019 18:42 pm	M111319a20.D	19434311	SKY Valley PCB Solid 2g 2mL fv	.
13 Nov 2019 19:07 pm	M111319a21.D	19434302	SKY Valley PCB Solid 1.86g 10mL fv	.
13 Nov 2019 19:32 pm	M111319a22.D	87PCB032819D	Instrument Blank 100pg/ul	.
13 Nov 2019 19:56 pm	M111319a23.D	87PCB032819M	PCB 1016/1260 Cont Cal 100 pg/uL	.
13 Nov 2019 20:21 pm	M111319a24.D	87PCB032819M	PCB 1016/1260 Cont Cal 100 pg/uL	.

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

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
20 Nov 2019 9:54 am	M112019a01.D	87PCB032819D	Instrument Blank 100pg/ul	.
20 Nov 2019 10:19 am	M112019a02.D	87PCB032819M	PCB 1016/1260 Cont Cal 100 pg/uL	.
20 Nov 2019 10:43 am	M112019a03.D	92S111919B1	SKY Valley PCB Air Filter Dust 2mL fv	.
20 Nov 2019 11:08 am	M112019a04.D	92S111919L1	SKY Valley PCB Air Filter Dust 2mL fv	.
20 Nov 2019 11:32 am	M112019a05.D	92S111919L2	SKY Valley PCB Air Filter Dust 2mL fv	.
20 Nov 2019 11:57 am	M112019a06.D	19434312	SKY Valley PCB Air Filter Dust 2mL fv	.
20 Nov 2019 12:22 pm	M112019a07.D	19434313	SKY Valley PCB Air Filter Dust 10mL fv	.
20 Nov 2019 12:46 pm	M112019a08.D	19434314	SKY Valley PCB Air Filter Dust 10mL fv	.
20 Nov 2019 13:11 pm	M112019a09.D	87PCB032819D	Instrument Blank 100pg/ul	.
20 Nov 2019 13:36 pm	M112019a10.D	87PCB032819M	PCB 1016/1260 Cont Cal 100 pg/uL	.

Analysis Log Method: 8082A Analyst: DWOOD Initial: [illegible]

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
05 Dec 2019 10:17 am	M120519a01.D	87PCB032819D	Instrument Blank 100pg/ul	
05 Dec 2019 10:42 am	M120519a02.D	87PCB111419D	PCB 1242 Cont Cal 100 pg/uL	
05 Dec 2019 11:06 am	M120519a03.D	87PCB120419K	PCB 1254 Cont Cal 100 pg/uL	
05 Dec 2019 11:31 am	M120519a04.D	19434301	SKY Valley PCB Wipes 10mL fv	
05 Dec 2019 11:56 am	M120519a05.D	19434302	SKY Valley PCB Solid 1.86g 10mL fv	
05 Dec 2019 12:20 pm	M120519a06.D	19434303	SKY Valley PCB Wipes 10mL fv	
05 Dec 2019 12:45 pm	M120519a07.D	19434303X10	SKY Valley PCB Wipes 1:10 dilution	
05 Dec 2019 1:09 pm	M120519a08.D	19434313	SKY Valley PCB Filter Dust 10mL fv	
05 Dec 2019 1:34 pm	M120519a09.D	19434314	SKY Valley PCB Filter Dust 10mL fv	
05 Dec 2019 1:59 pm	M120519a10.D	87PCB032819D	Instrument Blank 100pg/ul	
05 Dec 2019 2:23 pm	M120519a11.D	87PCB111419D	PCB 1242 Cont Cal 100 pg/uL	
05 Dec 2019 2:48 pm	M120519a12.D	87PCB120419K	PCB 1254 Cont Cal 100 pg/uL	

Rerun 19434313 + 14 for 1254

[illegible]

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

Instrument: Minerva

Date/Time Analyzed		Filename	Lab ID	Sample Information	Comments
11 Dec 2019	7:04 am	M121119a01.D	87PCB032819D	Instrument Blank 100pg/ul	
11 Dec 2019	7:28 am	M121119a02.D	87PCB120419K	PCB 1254 Cont Cal 100 pg/uL	
11 Dec 2019	7:53 am	M121119a03.D	19434313x10	SKY Valley PCB Filter Dust 1:10 dilution	
11 Dec 2019	8:17 am	M121119a04.D	19434314	SKY Valley PCB Filter Dust 10mL fv	
11 Dec 2019	8:42 am	M121119a05.D	87PCB120419K	PCB 1254 Cont Cal 100 pg/uL	

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

Analysis Log Method: 8082A Analyst: DWOOD Initial: [illegible]

Instrument: Minerva

Date/Time Analyzed	Filename	Lab ID	Sample Information	Comments
12 Nov 2019 12:04 pm	M111219b01.D	87PCB032819D	Instrument Blank 100pg/ul	.
12 Nov 2019 12:29 pm	M111219b02.D	87PCB32819K	PCB 1016/1260 ICAL 25 pg/uL	.
12 Nov 2019 12:54 pm	M111219b03.D	87PCB032819L	PCB 1016/1260 ICAL 50 pg/uL	.
12 Nov 2019 1:18 pm	M111219b04.D	87PCB061219a	PCB 1016/1260 ICAL 100 pg/uL	.
12 Nov 2019 1:43 pm	M111219b05.D	87PCB032819N	PCB 1016/1260 ICAL 250 pg/uL	.
12 Nov 2019 2:08 pm	M111219b06.D	87PCB032819O	PCB 1016/1260 ICAL 500 pg/uL	.
12 Nov 2019 2:32 pm	M111219b07.D	87PCB032819P	PCB 1016/1260 ICAL 1000 pg/uL	.
12 Nov 2019 2:57 pm	M111219b08.D	87PCB032819Q	PCB 1016/1260 ICAL 2500 pg/uL	.
12 Nov 2019 3:21 pm	M111219b09.D	87PCB111219A	SSV 1016 100pg/uL	.
12 Nov 2019 3:46 pm	M111219b10.D	87PCB111219B	SSV 1260 100pg/uL	.
12 Nov 2019 4:11 pm	M111219b11.D	87PCB111219C	PCB 1221 Std 200pg/uL	.
12 Nov 2019 4:35 pm	M111219b12.D	87PCB111219D	PCB 1232 Std 100pg/uL	.
12 Nov 2019 5:00 pm	M111219b13.D	87PCB111219E	PCB 1242 Std 100pg/uL	.
12 Nov 2019 5:24 pm	M111219b14.D	87PCB111219F	PCB 1248 Std 100pg/uL	.
12 Nov 2019 5:49 pm	M111219b15.D	87PCB111219G	PCB 1254 Std 100pg/uL	.

Calibration Status Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M111219PCB1260.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Tue Nov 12 15:48:19 2019
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	1	3	0	J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\M111219b02.D
2	2	5	0	J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\M111219b03.D
3	3	10	0	J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\M111219b04.D
4	4	25	0	J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\M111219b05.D
5	5	50	0	J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\M111219b06.D
6	6	100	0	J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\M111219b07.D
7	7	250	0	J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\M111219b08.D

#	ID	Update Time	Quant Time	Acquisition Time
1	1	Nov 12 15:45 2019	Nov 12 15:42 2019	12 Nov 2019 12:29 pm
2	2	Nov 12 15:45 2019	Nov 12 15:42 2019	12 Nov 2019 12:54 pm
3	3	Nov 12 15:46 2019	Nov 12 15:42 2019	12 Nov 2019 1:18 pm
4	4	Nov 12 15:46 2019	Nov 12 15:42 2019	12 Nov 2019 1:43 pm
5	5	Nov 12 15:46 2019	Nov 12 15:42 2019	12 Nov 2019 2:08 pm
6	6	Nov 12 15:46 2019	Nov 12 15:42 2019	12 Nov 2019 2:32 pm
7	7	Nov 12 15:46 2019	Nov 12 15:42 2019	12 Nov 2019 2:57 pm

M111219PCB1260.M Wed Nov 13 10:57:18 2019

Calibration Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M111219PCB1260.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Tue Nov 12 15:48:19 2019
Response Via : Initial Calibration

Calibration Files
1 =M111219b02 2 =M111219b03 3 =M111219b04 4 =M111219b05 5 =M111219b06
6 =M111219b07 7 =M111219b08

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S1	tmx (1)	Lin	9.4024 e3	2.8160 e4	-----	0.9952
2)	L1	1016 -1	Lin	4.2275 e3	4.0329 e2	-----	0.9937
3)	L1	1016-2	Lin	6.3729 e3	5.3939 e2	-----	0.9926
4)	L1	1016-3	Lin	5.1205 e3	7.0618 e2	-----	0.9924
5)	L1	1016-4	Lin	1.7427 e3	4.6149 e2	-----	0.9954
6)	L1	1016-5	Lin	4.0674 e3	4.6744 e2	-----	0.9919
7)	L2	1260-1	Lin	5.8366 e3	9.3405 e2	-----	0.9972
8)	L2	1260-2	Lin	5.0553 e3	1.0998 e3	-----	0.9975
9)	L2	1260-3	Lin	3.0752 e3	1.2033 e3	-----	0.9984
10)	L2	1260-4	Lin	4.3352 e2	1.4468 e3	-----	0.9971
11)	L2	1260-5	Lin	1.0142 e3	6.6692 e2	-----	0.9958
12)	S1	dcb	Lin	5.5403 e3	1.1492 e4	-----	0.9970

Signal #2

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	S2	tmx (1)	Lin	2.9610 e4	8.8493 e4	-----	0.9943
2)	L1	1016 -1	Lin	1.3573 e4	1.4103 e3	-----	0.9910
3)	L1	1016-2	Lin	2.0939 e4	2.4639 e3	-----	0.9936
4)	L1	1016-3	Lin	1.6193 e4	3.4371 e3	-----	0.9958
5)	L1	1016-4	Lin	1.2571 e4	1.9108 e3	-----	0.9952
6)	L1	1016-5	Lin	6.8621 e3	1.3996 e3	-----	0.9967
7)	L2	1260-1	Lin	2.2146 e4	2.9724 e3	-----	0.9959
8)	L2	1260-2	Lin	2.5973 e4	4.4485 e3	-----	0.9952
9)	L2	1260-3	Lin	1.0418 e4	3.7193 e3	-----	0.9962
10)	L2	1260-4	Lin	9.6167 e3	2.2316 e3	-----	0.9962
11)	L2	1260-5	Lin	6.6105 e2	4.8210 e3	-----	0.9961
12)	S2	dcb	Lin	9.8750 e3	4.0572 e4	-----	0.9957

M111219PCB1260.M Wed Nov 13 10:57:27 2019

Response Factor Report Minerva

Method Path : J:\Organics\Minerva\Methods\
Method File : M111219PCB1260.M
Title : AROCLOR 1016/1260 ANALYSIS
Last Update : Tue Nov 12 15:48:19 2019
Response Via : Initial Calibration

Calibration Files
1 =M111219b02.D 2 =M111219b03.D 3 =M111219b04.D
4 =M111219b05.D 5 =M111219b06.D 6 =M111219b07.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1)	S1 tmx (1)	3.249	2.855	2.856	3.180	2.860	2.760	2.920	E4	7.28
2)	L1 1016 -1	5.751	4.724	4.465	4.736	4.097	4.020	4.500	E2	14.88
3)	L1 1016-2	7.864	6.625	6.194	6.404	5.396	5.288	6.099	E2	16.45
4)	L1 1016-3	9.009	7.976	7.893	8.250	6.997	6.805	7.628	E2	11.86
5)	L1 1016-4	5.313	4.830	4.895	5.228	4.473	4.458	4.808	E2	7.59
6)	L1 1016-5	6.205	5.428	5.405	5.454	4.657	4.399	5.124	E2	13.42
7)	L2 1260-1	1.169	1.034	0.994	1.047	0.914	0.914	0.999	E3	9.44
8)	L2 1260-2	1.317	1.166	1.137	1.207	1.052	1.101	1.156	E3	7.49
9)	L2 1260-3	1.353	1.216	1.203	1.282	1.178	1.215	1.237	E3	4.86
10)	L2 1260-4	1.512	1.395	1.364	1.504	1.389	1.482	1.452	E3	4.54
11)	L2 1260-5	7.189	6.631	6.708	7.191	6.165	6.506	6.781	E2	5.73
12)	S1 dcb	1.406	1.188	1.185	1.249	1.136	1.116	1.210	E4	7.93

Signal #2 Calibration Files
1 =M111219b02.D 2 =M111219b03.D 3 =M111219b04.D
4 =M111219b05.D 5 =M111219b06.D 6 =M111219b07.D

	Compound	1	2	3	4	5	6	Avg		%RSD
1)	S2 tmx (1)	1.011	0.907	0.919	1.003	0.889	0.886	0.918	E5	7.69
2)	L1 1016 -1	1.919	1.685	1.612	1.655	1.434	1.379	1.560	E3	14.53
3)	L1 1016-2	3.248	2.920	2.754	2.795	2.397	2.281	2.733	E3	12.91
4)	L1 1016-3	4.135	3.610	3.571	3.879	3.407	3.464	3.616	E3	8.31
5)	L1 1016-4	2.419	2.107	2.050	2.180	1.932	1.891	2.050	E3	10.41
6)	L1 1016-5	1.694	1.477	1.462	1.556	1.385	1.425	1.475	E3	8.16
7)	L2 1260-1	3.852	3.349	3.254	3.341	2.993	3.005	3.217	E3	11.16
8)	L2 1260-2	5.533	4.804	4.669	5.035	4.523	4.493	4.736	E3	9.65
9)	L2 1260-3	4.262	3.699	3.649	4.056	3.761	3.843	3.834	E3	6.38
10)	L2 1260-4	2.660	2.332	2.253	2.491	2.220	2.284	2.338	E3	7.74
11)	L2 1260-5	5.018	4.504	4.637	5.229	4.839	4.922	4.828	E3	5.21
12)	S2 dcb	4.661	3.922	3.904	4.289	3.992	4.230	4.166	E4	6.38

(#) = Out of Range ### Number of calibration levels exceeded format ###

M111219PCB1260.M Wed Nov 13 10:57:44 2019

ICAL Series	M111219b02.D		through	M111219b08.D			
Last Calibration Update	Tue Nov 12 15:48:19 2019						
	25	50	100	250	500	1000	2500
Analyte	%Difference from expected						
tmx (1)	2.0	-5.3	-1.9	11.6	0.9	-2.3	-5.0
1016 -1	0.7	-3.8	0.2	13.2	-0.5	-1.4	-8.5
1016-2	-1.5	-0.8	3.0	14.0	-2.3	-3.1	-9.3
1016-3	-1.4	-1.6	4.5	13.9	-2.4	-4.4	-8.7
1016-4	0.0	-2.9	2.3	11.8	-3.8	-3.8	-3.6
1016-5	-2.1	-1.3	6.9	13.2	-2.1	-6.8	-7.9
1260-1	0.1	-1.8	0.2	9.6	-3.4	-2.8	-1.9
1260-2	1.4	-3.2	-1.2	7.9	-5.3	-0.4	0.8
1260-3	2.2	-4.1	-2.6	5.5	-2.6	0.7	0.8
1260-4	3.3	-4.2	-6.0	3.8	-4.0	2.4	4.72
1260-5	1.7	-3.6	-0.9	7.2	-7.9	-2.6	6.1
dcb	3.0	-6.2	-1.7	6.7	-2.1	-3.4	3.6
Signal #2							
tmx (1) #2	0.8	-4.1	0.6	12.0	-0.2	-0.2	-8.8
1016 -1 #2	-2.4	0.2	4.7	13.5	-0.3	-3.2	-12.6
1016-2 #2	-2.2	1.5	3.3	10.1	-4.4	-8.3	
1016-3 #2	1.4	-4.4	-0.8	11.0	-1.8	0.3	-5.7
1016-4 #2	0.3	-2.9	0.7	11.5	-0.2	-1.7	-7.6
1016-5 #2	1.5	-4.3	-0.4	9.2	-2.0	1.3	-5.3
1260-1 #2	-0.2	-2.2	2.0	9.4	-0.8	0.3	-8.6
1260-2 #2	1.0	-3.7	-0.9	10.9	0.5	0.4	-8.2
1260-3 #2	3.4	-6.2	-4.7	7.9	0.6	3.0	-4.1
1260-4 #2	2.0	-4.1	-3.4	9.9	-1.4	1.9	-4.9
1260-5 #2	3.5	-6.8	-4.0	8.4	0.4	2.1	-3.6
dcb #2	5.2	-8.2	-6.2	4.8	-2.1	4.0	2.6

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 12:04 pm
Operator : DWOOD
Sample : 87PCB032819D
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 26 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:47:51 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
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)	6.967	4.711	2975621	9513054	108.103	108.754
12)	S2 dcb	17.739	13.106	1083354	3678737	72.013	85.469
	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.	N.D.
4)	L1 1016-3	0.000	0.000	0	0	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	0.000	0	0	N.D.	N.D.
8)	L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9)	L2 1260-3	0.000	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.

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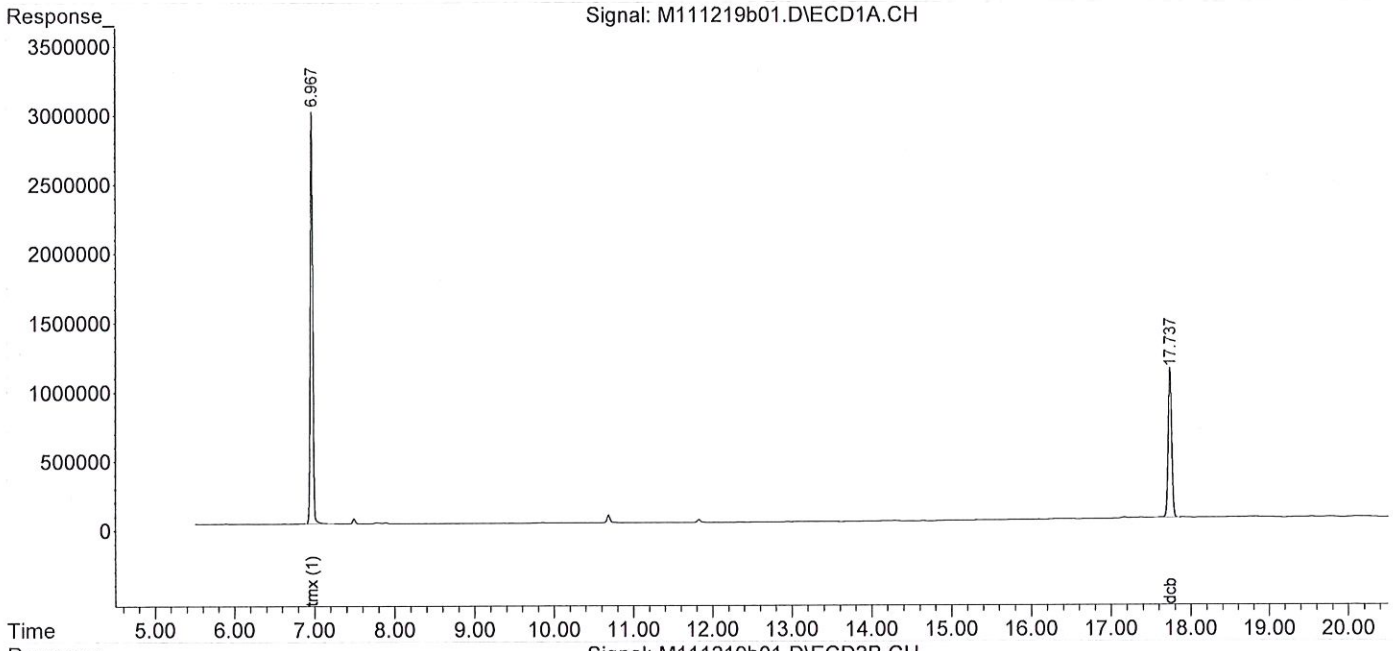
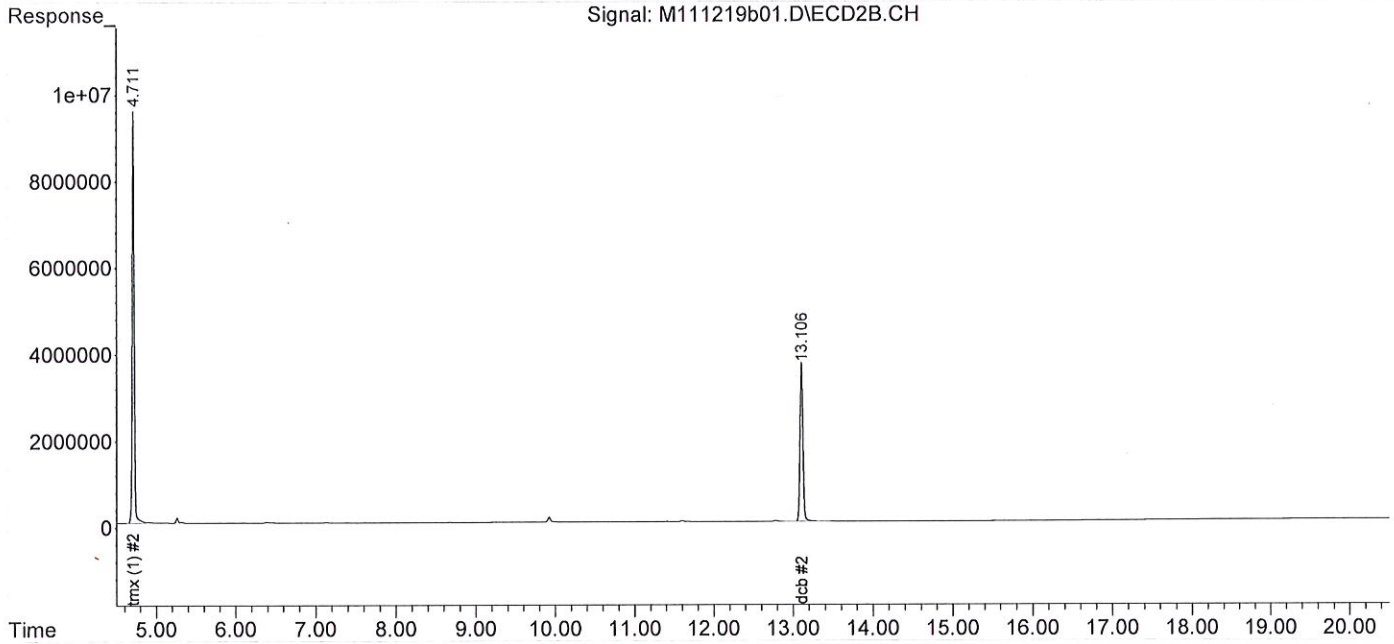
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 12:04 pm
Operator : DWOOD
Sample : 87PCB032819D
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 26 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:47:51 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 12:04 pm
Operator : DWOOD
Sample : 87PCB032819D
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 26 (Sig #2) Sample Multiplier: 1

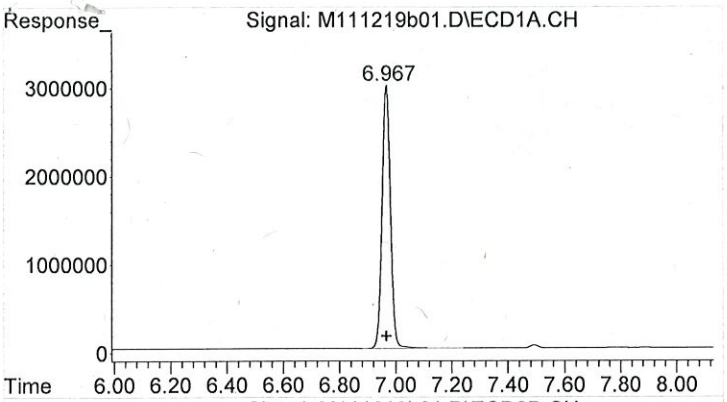
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 12 15:41:57 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
Response via : Initial Calibration
Integrator: ChemStation 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)	6.967	4.711	2975621	9513054	108.103	108.754
12) S2 dcb	17.739	13.106	1083354	3678737	72.013	85.469
Target Compounds						
2) L1 1016 -1	0.000	5.262	0	114352	N.D.	78.671 #
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	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	114352	N.D.	78.671
Average 1016 -1					0.000	78.671
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	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

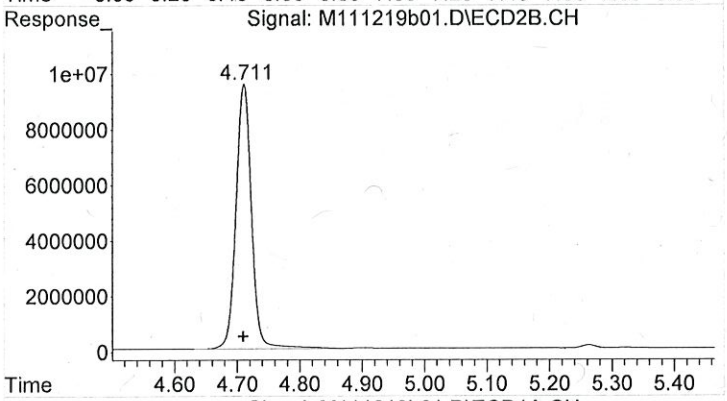
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

11/12/19



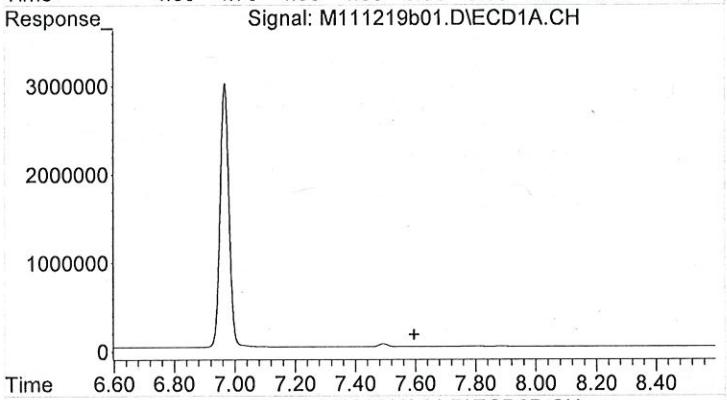
#1 tmx (1)

R.T.: 6.967 min
Delta R.T.: 0.000 min
Response: 2975621
Conc: 108.10 pg/uL



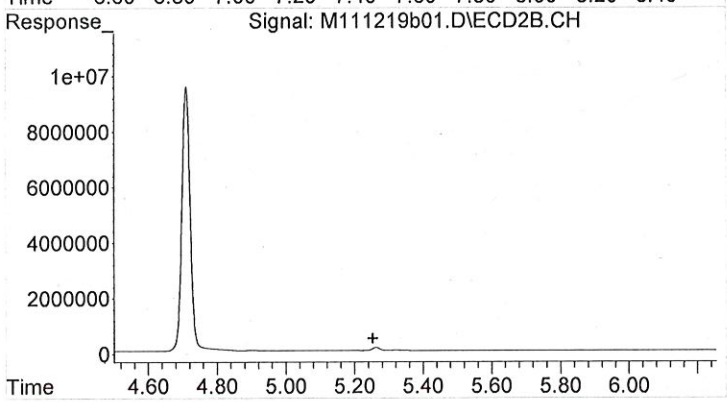
#1 tmx (1)

R.T.: 4.711 min
Delta R.T.: 0.001 min
Response: 9513054
Conc: 108.75 pg/uL



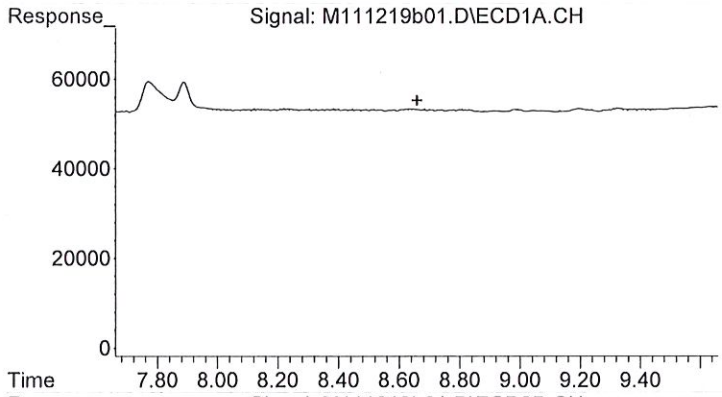
#2 1016 -1

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



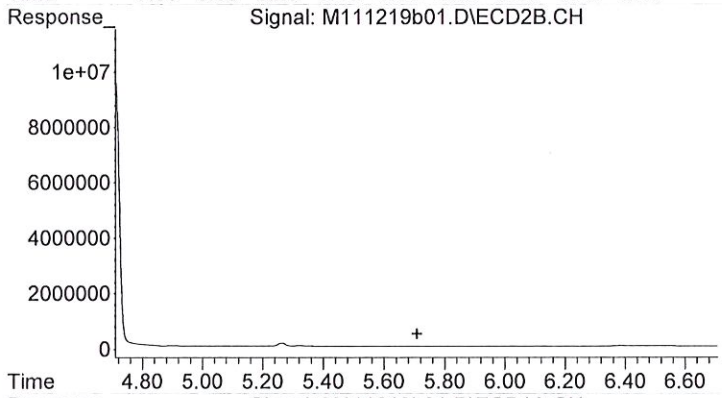
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.254 min
Response: 0
Conc: N.D.



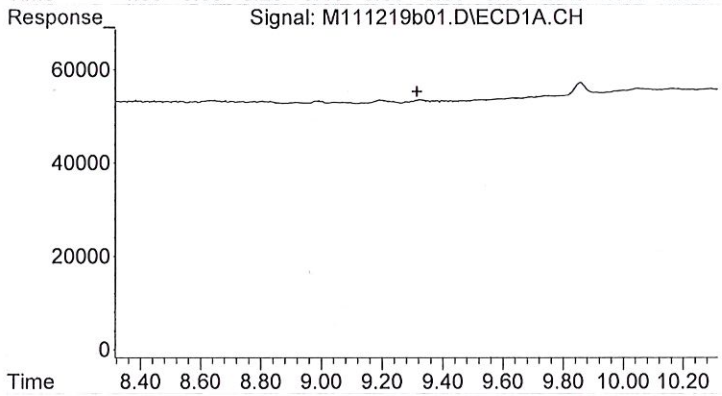
#3 1016-2

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



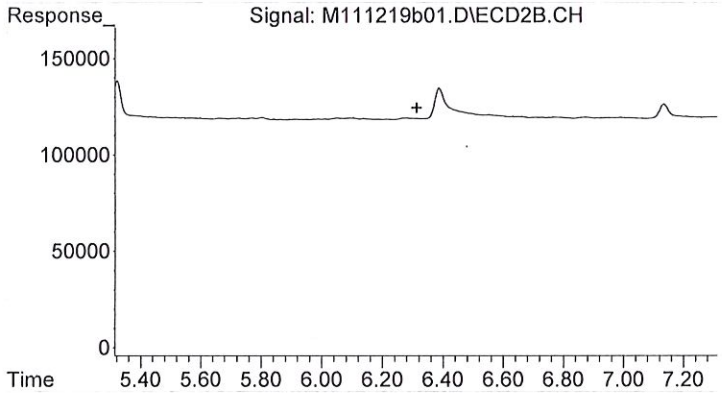
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.709 min
Response: 0
Conc: N.D.



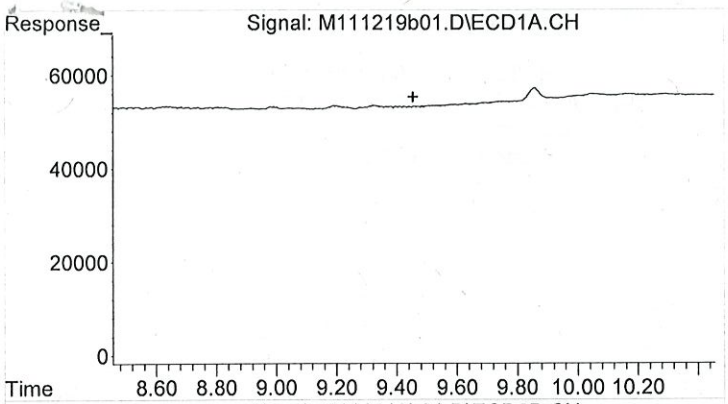
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.315 min
Response: 0
Conc: N.D.



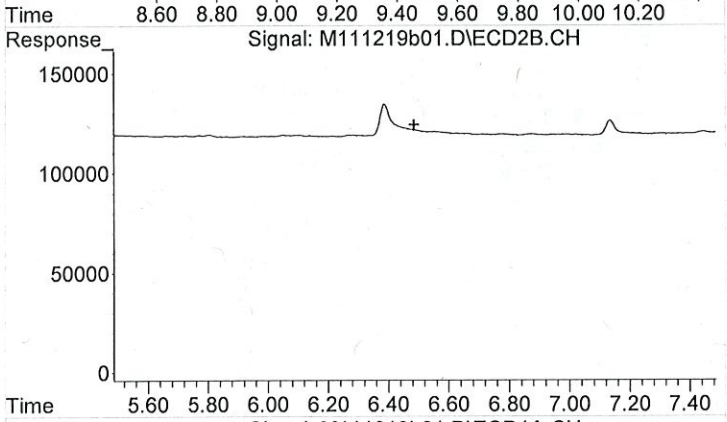
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.314 min
Response: 0
Conc: N.D.



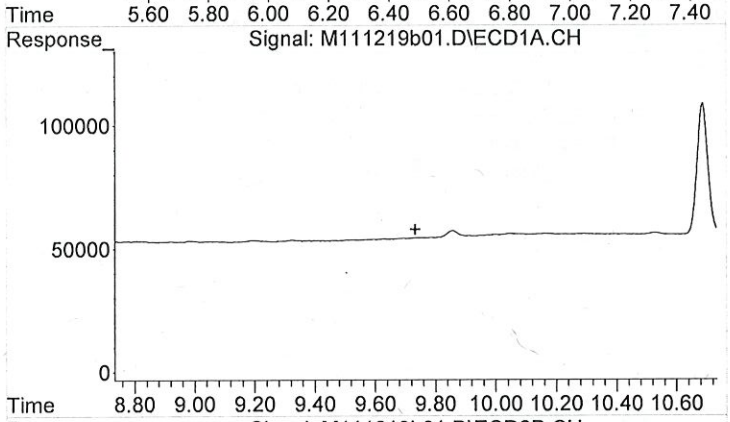
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.455 min
Response: 0
Conc: N.D.



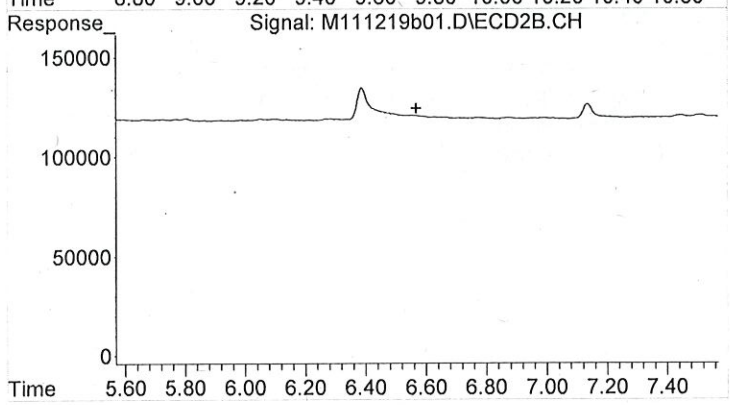
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.486 min
Response: 0
Conc: N.D.



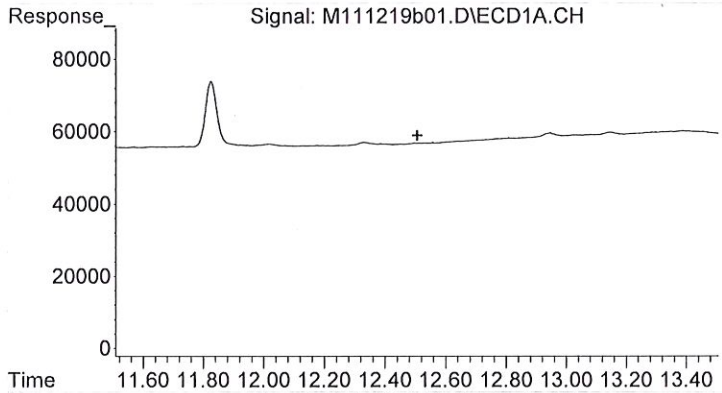
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.733 min
Response: 0
Conc: N.D.



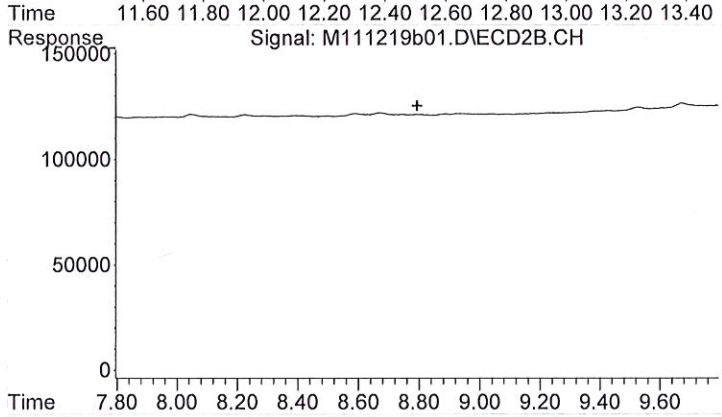
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.569 min
Response: 0
Conc: N.D.



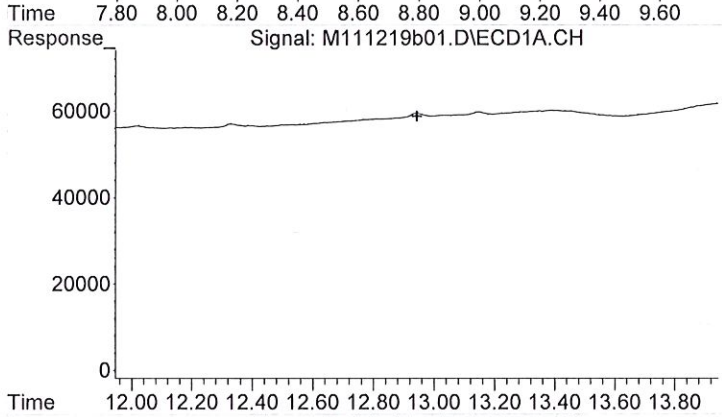
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.507 min
Response: 0
Conc: N.D.



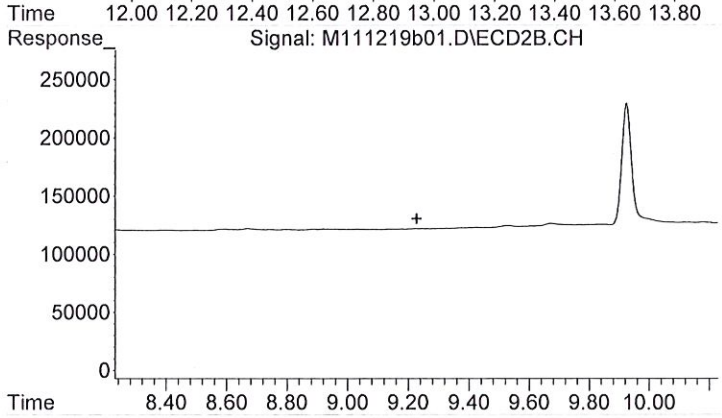
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 8.794 min
Response: 0
Conc: N.D.



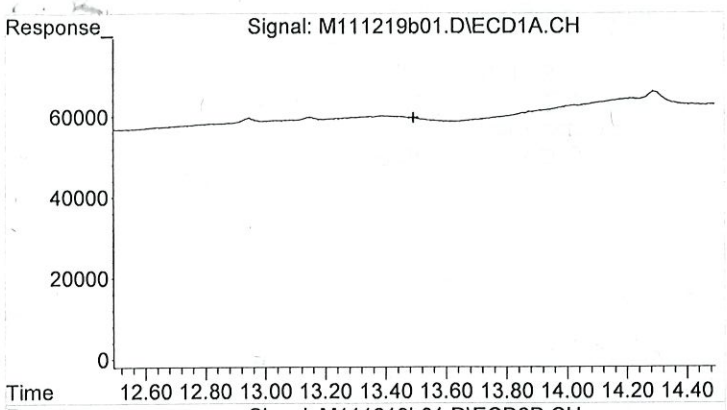
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.944 min
Response: 0
Conc: N.D.



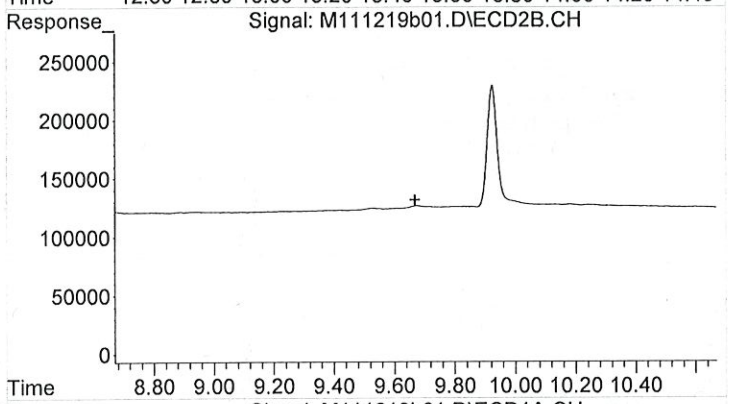
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.229 min
Response: 0
Conc: N.D.



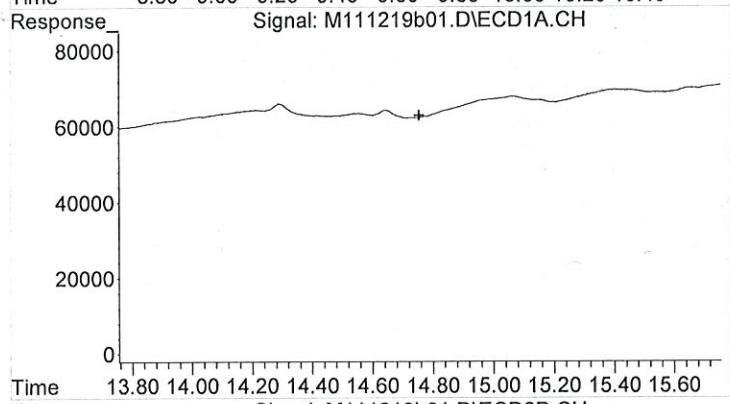
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.493 min
Response: 0
Conc: N.D.



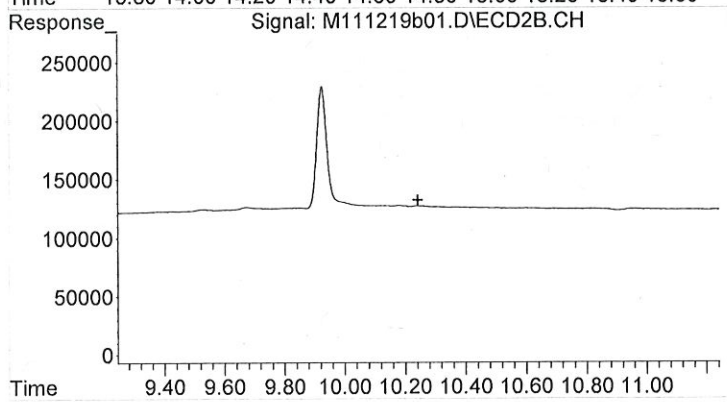
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.669 min
Response: 0
Conc: N.D.



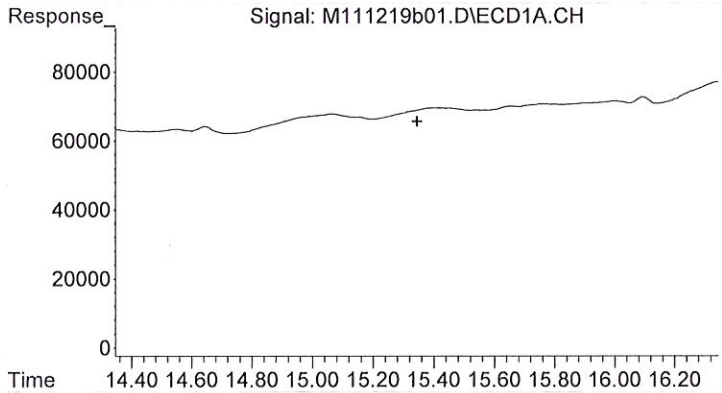
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 14.755 min
Response: 0
Conc: N.D.



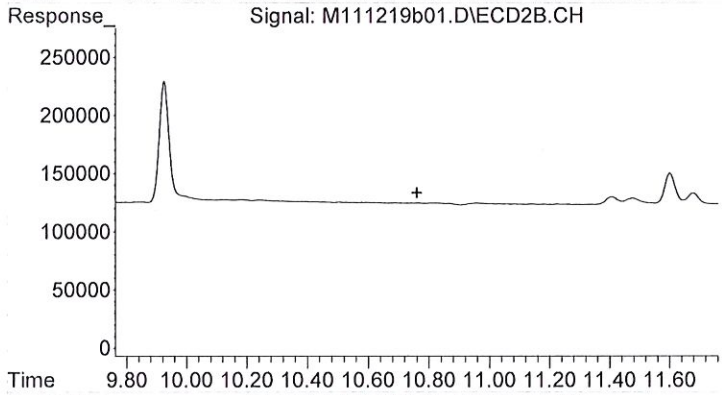
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 10.243 min
Response: 0
Conc: N.D.



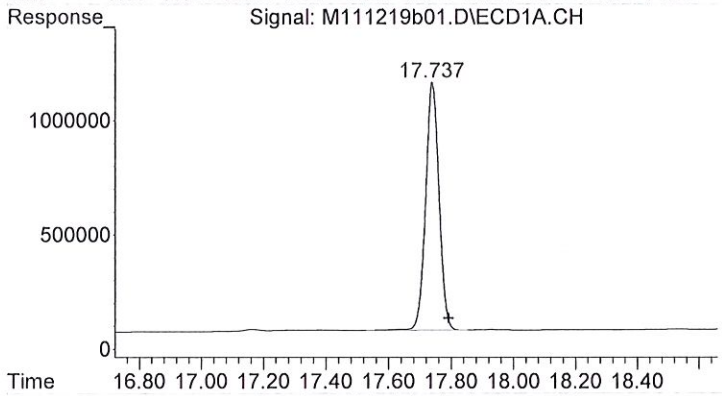
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 15.345 min
Response: 0
Conc: N.D.



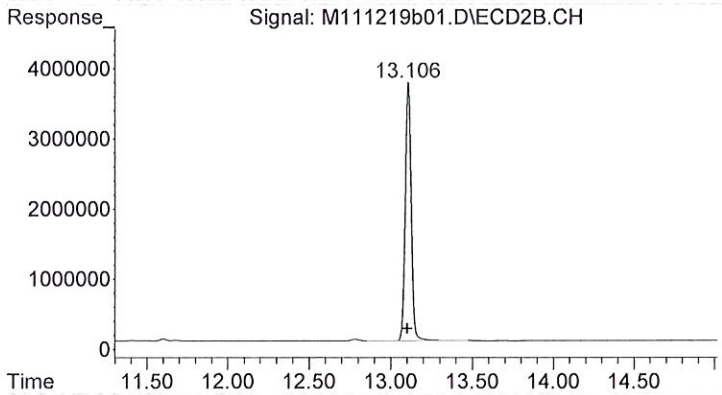
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 10.761 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 17.739 min
Delta R.T.: -0.054 min
Response: 1083354
Conc: 72.01 pg/uL



#12 dcb

R.T.: 13.106 min
Delta R.T.: 0.002 min
Response: 3678737
Conc: 85.47 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 12:29 pm
Operator : DWOOD
Sample : 87PCB32819K
Misc : PCB 1016/1260 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 27 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:06 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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)	6.961	4.713	81226	252693	2.551	2.521
12)	S2 dcb	17.736	13.105	35138	116536	2.575	2.629
	Target Compounds						
2)	L1 1016 -1	7.574	5.256	14377	47976	25.168	24.395
3)	L1 1016-2	8.632	5.713	19660	81205	24.633	24.460
4)	L1 1016-3	9.287	6.315	22523	103363	24.643	25.362
5)	L1 1016-4	9.429	6.487	13282	60468	25.005	25.066
6)	L1 1016-5	9.699	6.569	15513	42360	24.485	25.363
	Sum 1016 -1			85355	335372	123.934	124.645
	Average 1016 -1					24.787	24.929
7)	L2 1260-1	12.466	8.795	29220	96295	25.034	24.946
8)	L2 1260-2	12.902	9.228	32927	138323	25.342	25.256
9)	L2 1260-3	13.447	9.665	33832	106559	25.562	25.849
10)	L2 1260-4	14.711	10.244	37803	66506	25.829	25.493
11)	L2 1260-5	15.291	10.758	17974	125451	25.429	25.884
	Sum 1260-1			151757	533134	127.197	127.428
	Average 1260-1					25.439	25.486

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

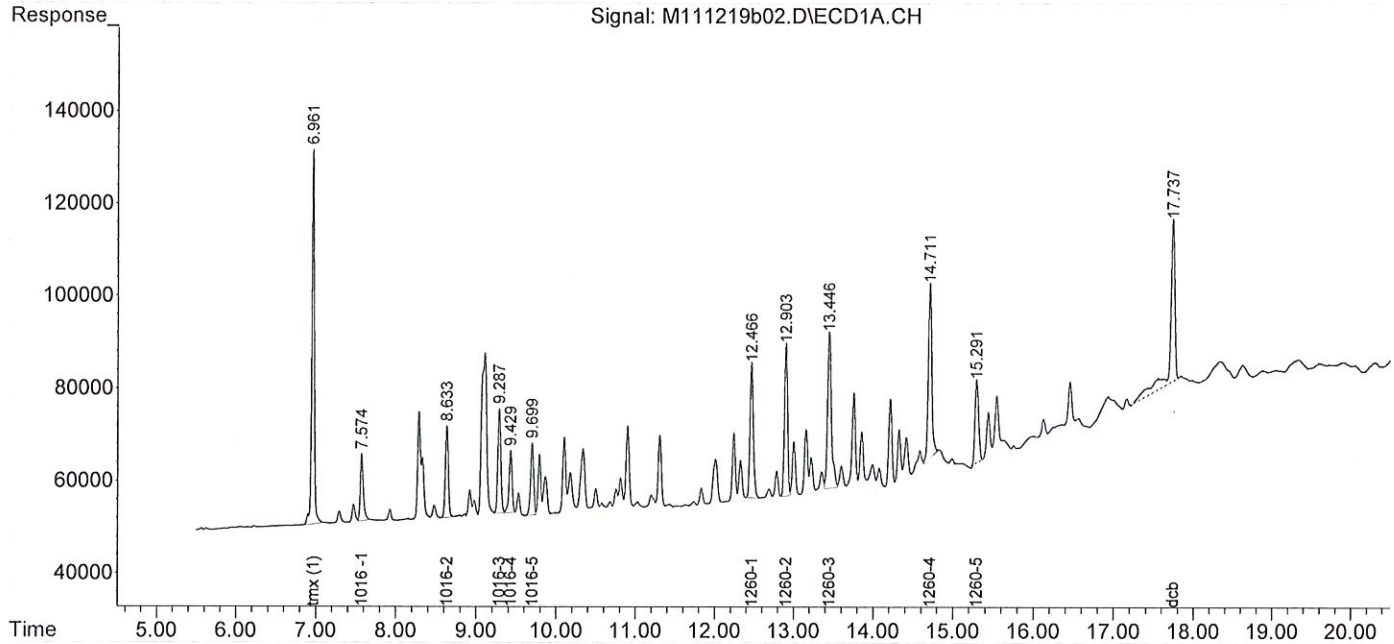
kw
11/13/19

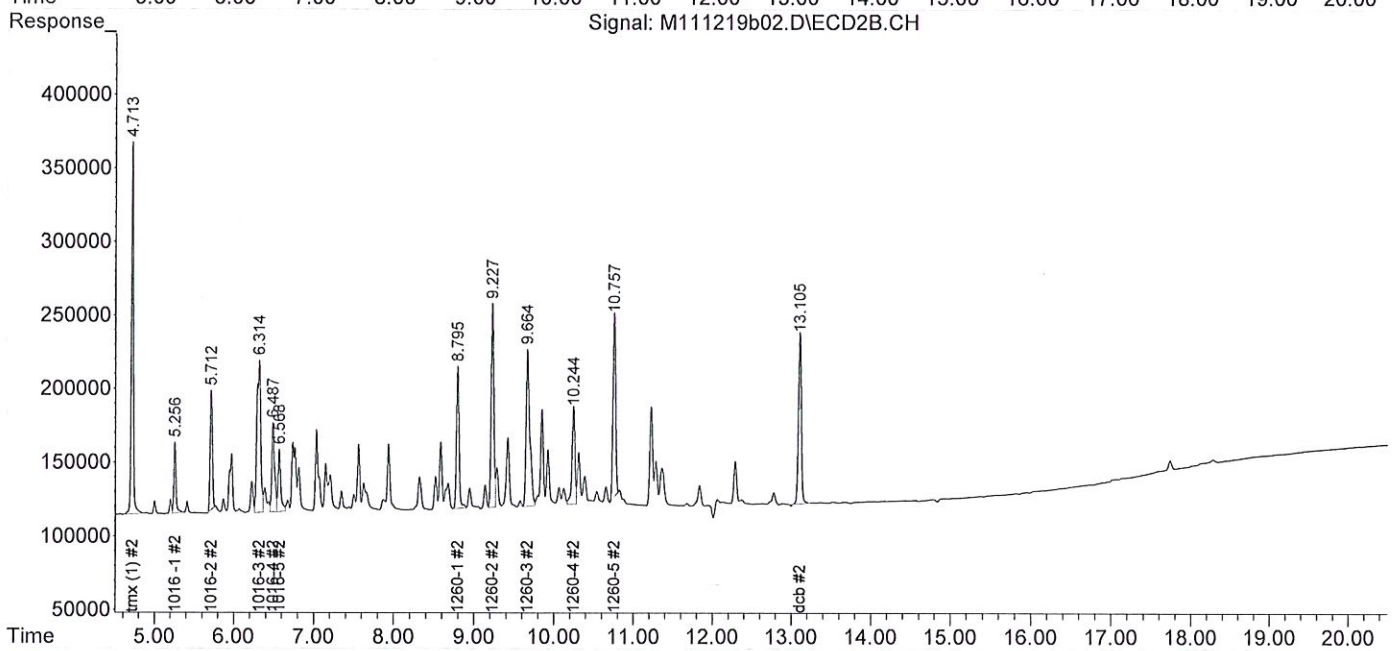
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 12:29 pm
Operator : DWOOD
Sample : 87PCB32819K
Misc : PCB 1016/1260 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 27 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:06 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b02.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 12:29 pm
Operator : DWOOD
Sample : 87PCB32819K
Misc : PCB 1016/1260 ICAL 25 pg/uL
ALS Vial : 0 (Sig #1); 27 (Sig #2) Sample Multiplier: 1

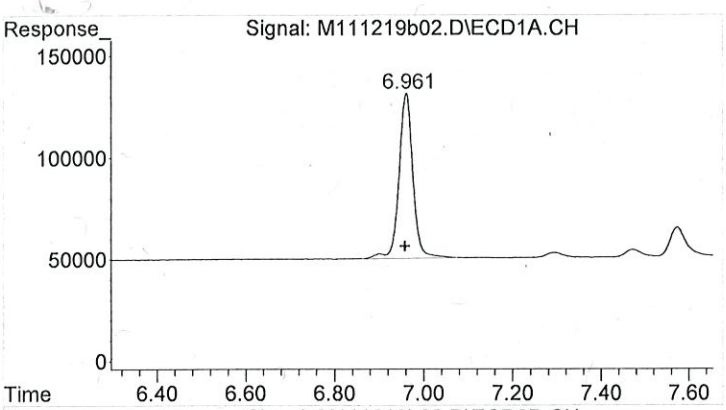
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 12 15:42:00 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
Response via : Initial Calibration
Integrator: ChemStation 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)	6.961	4.713	81226	252693	2.886	2.751
12) S2 dcb	17.736	13.105	35138	116536	1.387	2.209 #
Target Compounds						
2) L1 1016 -1	7.574	5.256	14377	47976	31.602	30.667
3) L1 1016-2	8.632	5.713	19660	81205	26.792	26.929
4) L1 1016-3	9.287	6.315	22523	103363	25.945	30.931
5) L1 1016-4	9.429	6.487	13282	60468	26.825	30.669
6) L1 1016-5	9.699	6.569	15513	42360	23.009	30.635 #
Sum 1016 -1			85355	335372	134.173	149.831
Average 1016 -1					26.835	29.966
7) L2 1260-1	12.466	8.795	29220	96295	16.573	26.452 #
8) L2 1260-2	12.902	9.228	32927	138323	15.940	27.578 #
9) L2 1260-3	13.447	9.665	33832	106559	15.504	28.942 #
10) L2 1260-4	14.711	10.244	37803	66506	15.402	25.729 #
11) L2 1260-5	15.291f	10.758	17974	125451	14.535	26.306 #
Sum 1260-1			151757	533134	77.953	135.007
Average 1260-1					15.591	27.001

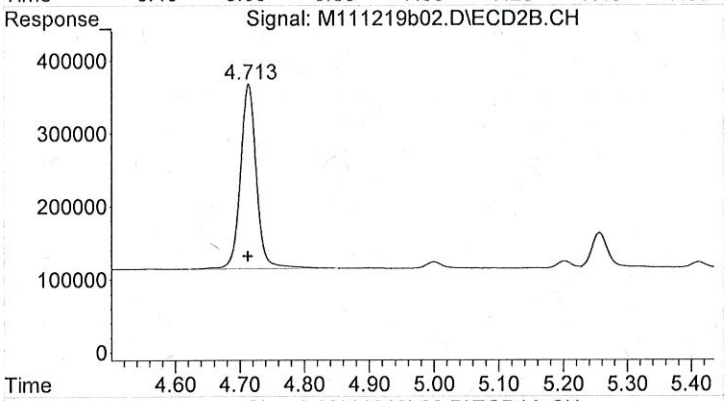
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
11/12/19



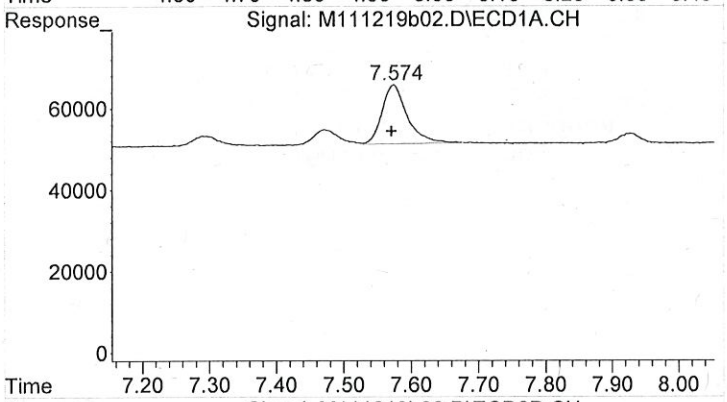
#1 tmx (1)

R.T.: 6.961 min
Delta R.T.: 0.002 min
Response: 81226
Conc: 2.55 pg/uL



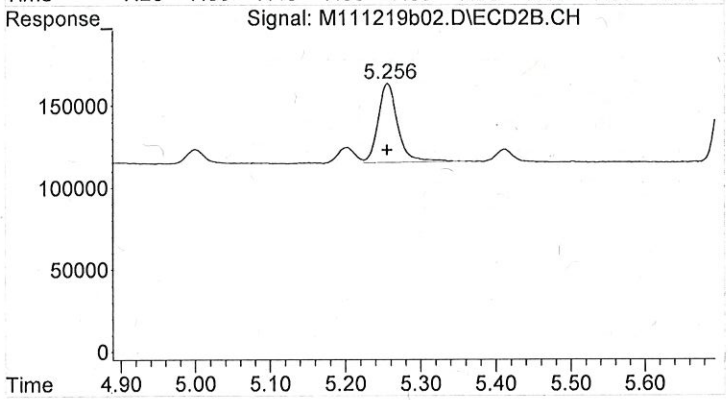
#1 tmx (1)

R.T.: 4.713 min
Delta R.T.: 0.000 min
Response: 252693
Conc: 2.52 pg/uL



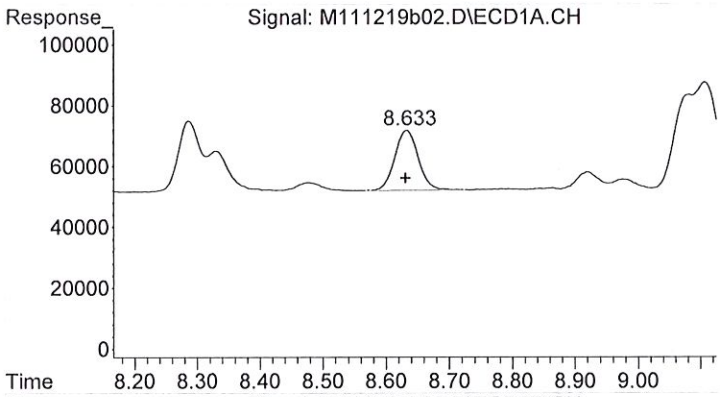
#2 1016 -1

R.T.: 7.574 min
Delta R.T.: 0.003 min
Response: 14377
Conc: 25.17 pg/uL



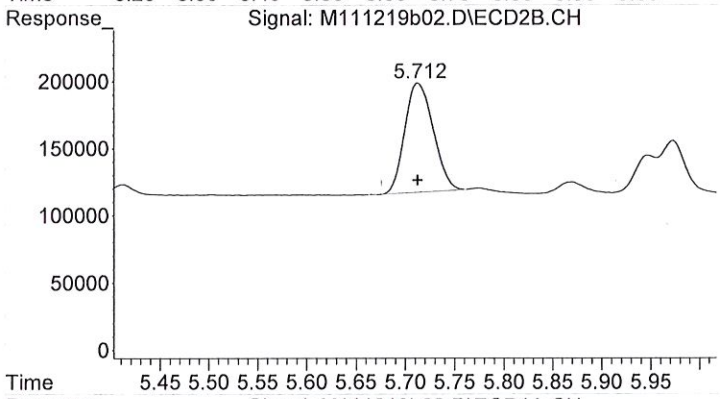
#2 1016 -1

R.T.: 5.256 min
Delta R.T.: 0.000 min
Response: 47976
Conc: 24.39 pg/uL



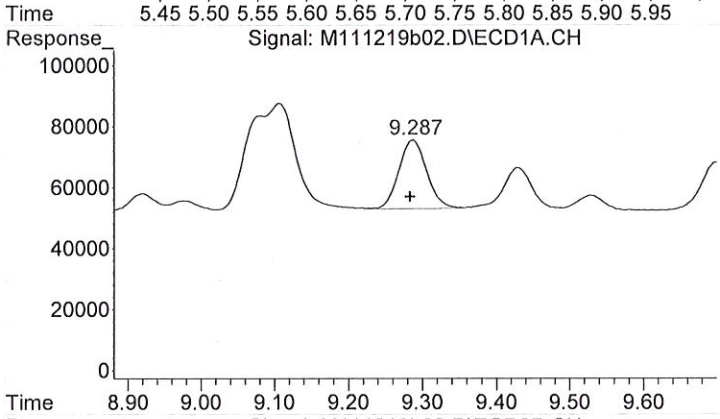
#3 1016-2

R.T.: 8.632 min
Delta R.T.: 0.001 min
Response: 19660
Conc: 24.63 pg/uL



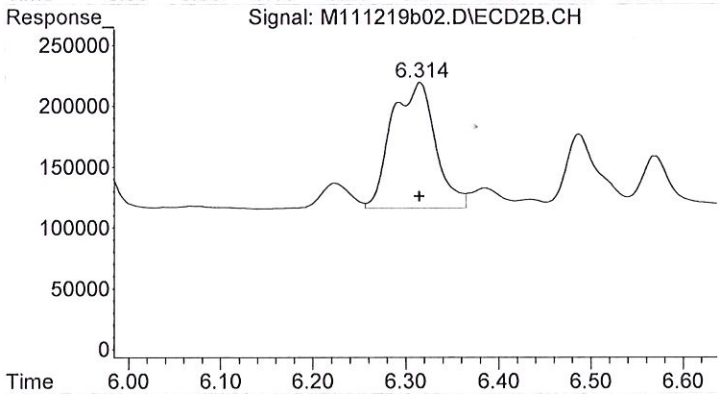
#3 1016-2

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 81205
Conc: 24.46 pg/uL



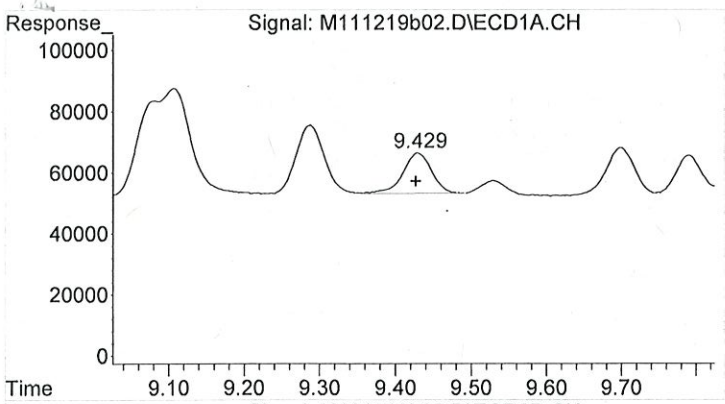
#4 1016-3

R.T.: 9.287 min
Delta R.T.: 0.003 min
Response: 22523
Conc: 24.64 pg/uL



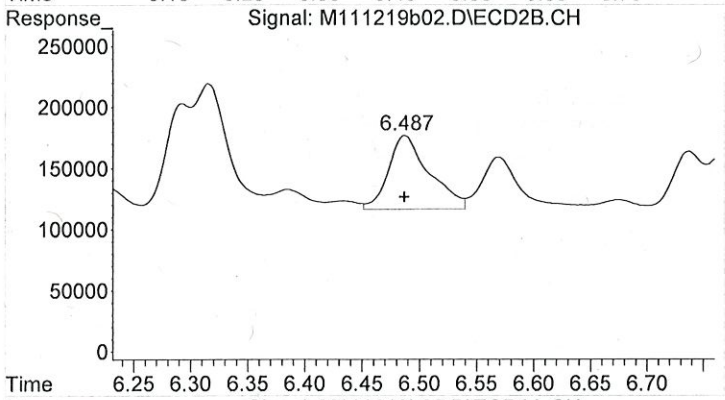
#4 1016-3

R.T.: 6.315 min
Delta R.T.: 0.000 min
Response: 103363
Conc: 25.36 pg/uL



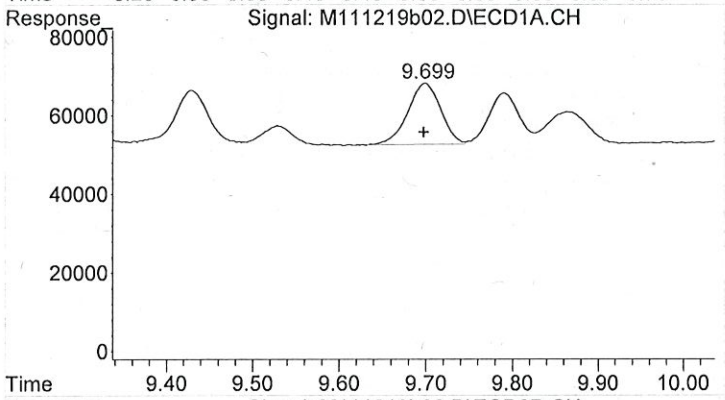
#5 1016-4

R.T.: 9.429 min
Delta R.T.: 0.002 min
Response: 13282
Conc: 25.00 pg/uL



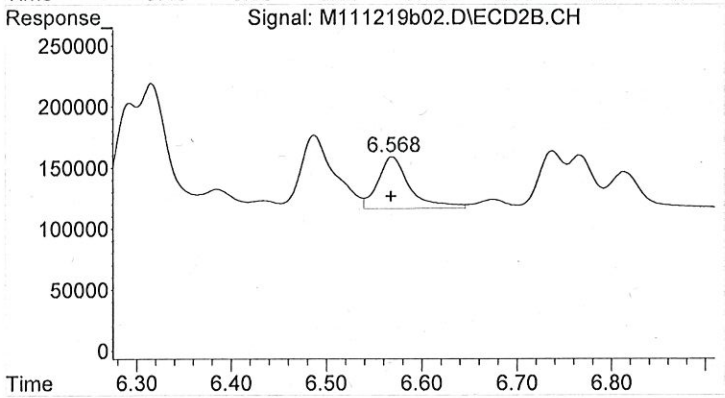
#5 1016-4

R.T.: 6.487 min
Delta R.T.: 0.000 min
Response: 60468
Conc: 25.07 pg/uL



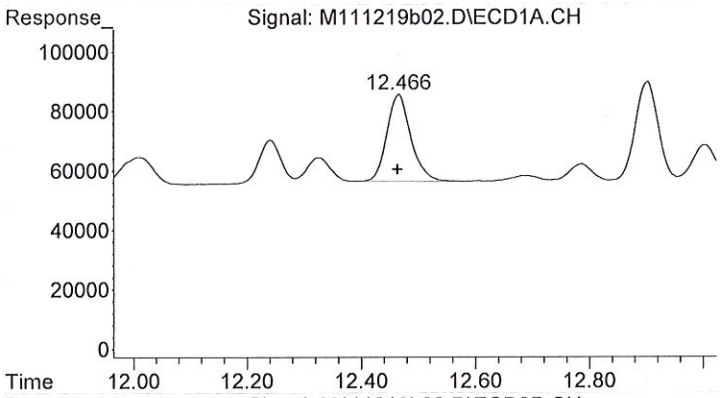
#6 1016-5

R.T.: 9.699 min
Delta R.T.: 0.000 min
Response: 15513
Conc: 24.49 pg/uL



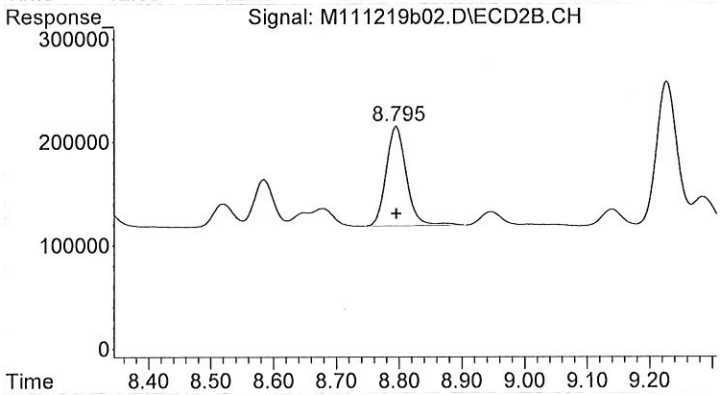
#6 1016-5

R.T.: 6.569 min
Delta R.T.: 0.001 min
Response: 42360
Conc: 25.36 pg/uL



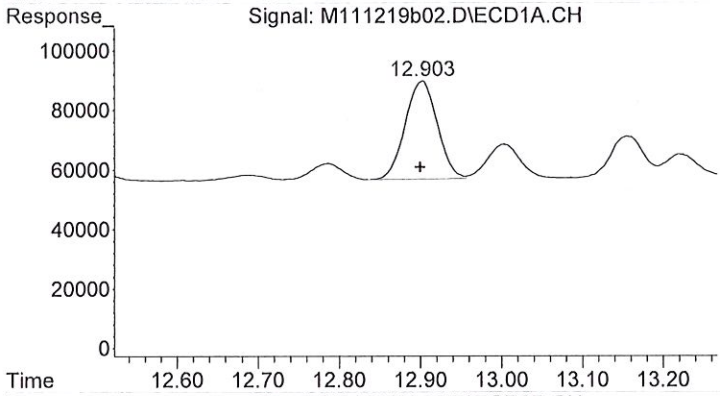
#7 1260-1

R.T.: 12.466 min
Delta R.T.: 0.002 min
Response: 29220
Conc: 25.03 pg/uL



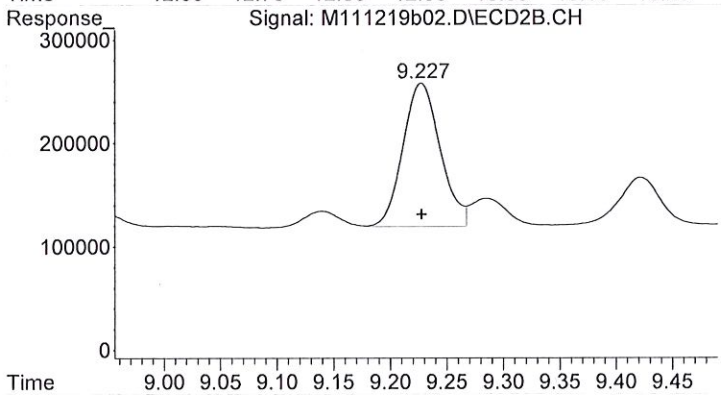
#7 1260-1

R.T.: 8.795 min
Delta R.T.: 0.000 min
Response: 96295
Conc: 24.95 pg/uL



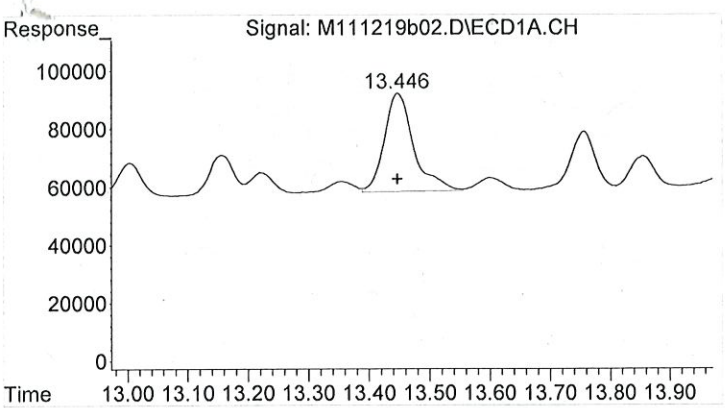
#8 1260-2

R.T.: 12.902 min
Delta R.T.: 0.002 min
Response: 32927
Conc: 25.34 pg/uL



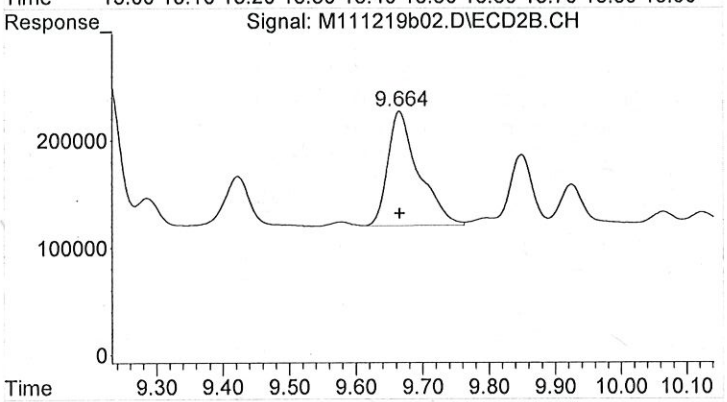
#8 1260-2

R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 138323
Conc: 25.26 pg/uL



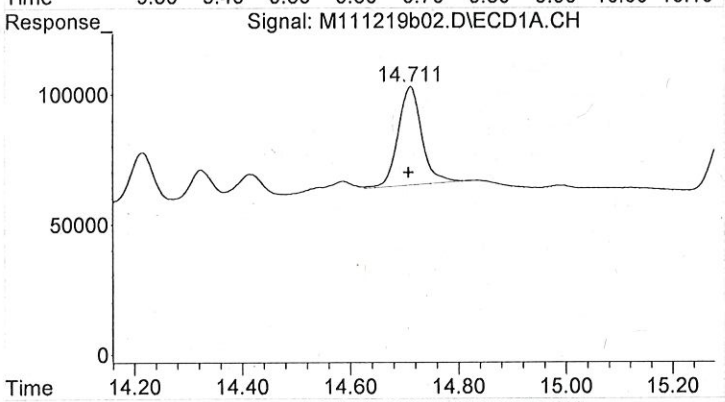
#9 1260-3

R.T.: 13.447 min
Delta R.T.: 0.000 min
Response: 33832
Conc: 25.56 pg/uL



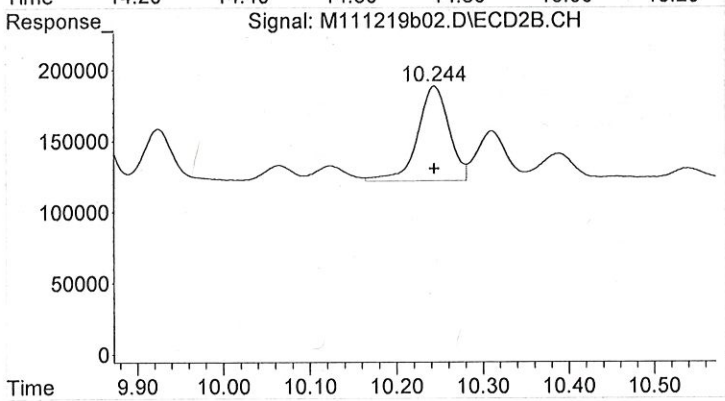
#9 1260-3

R.T.: 9.665 min
Delta R.T.: -0.001 min
Response: 106559
Conc: 25.85 pg/uL



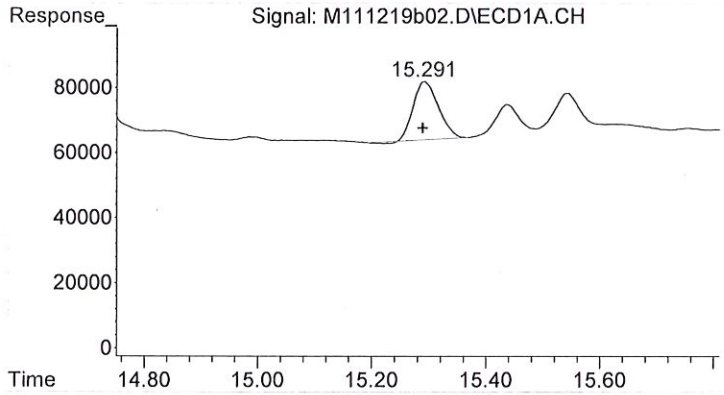
#10 1260-4

R.T.: 14.711 min
Delta R.T.: 0.003 min
Response: 37803
Conc: 25.83 pg/uL



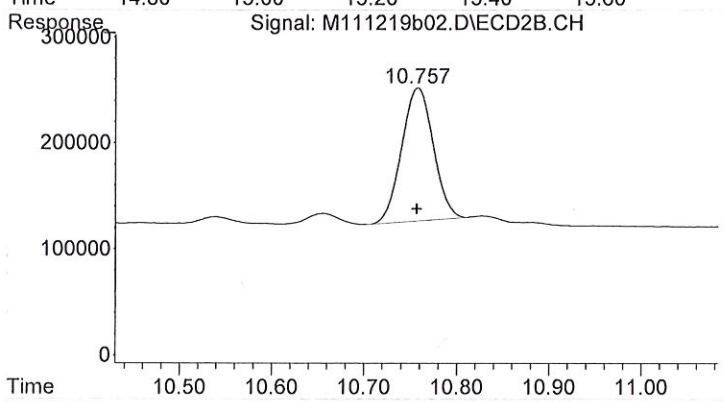
#10 1260-4

R.T.: 10.244 min
Delta R.T.: 0.000 min
Response: 66506
Conc: 25.49 pg/uL



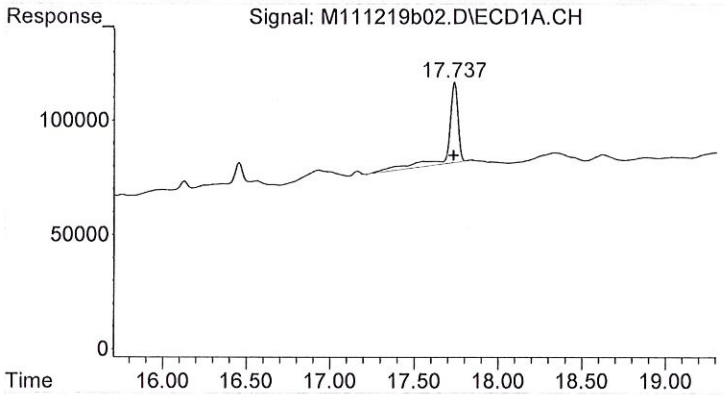
#11 1260-5

R.T.: 15.291 min
Delta R.T.: 0.002 min
Response: 17974
Conc: 25.43 pg/uL



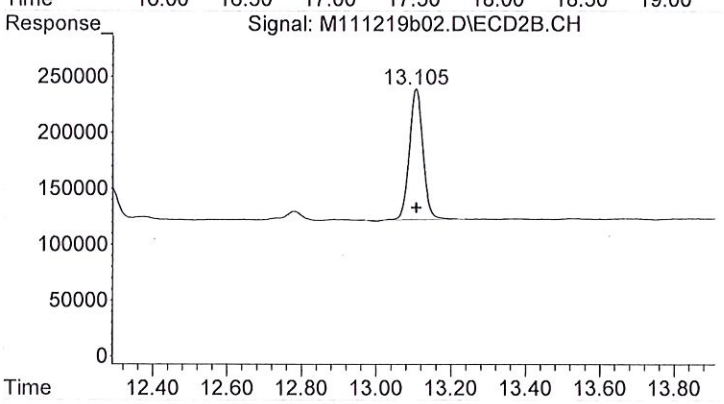
#11 1260-5

R.T.: 10.758 min
Delta R.T.: 0.000 min
Response: 125451
Conc: 25.88 pg/uL



#12 dcb

R.T.: 17.736 min
Delta R.T.: 0.003 min
Response: 35138
Conc: 2.58 pg/uL



#12 dcb

R.T.: 13.105 min
Delta R.T.: -0.002 min
Response: 116536
Conc: 2.63 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 12:54 pm
Operator : DWOOD
Sample : 87PCB032819L
Misc : PCB 1016/1260 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 28 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:17 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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)	6.959	4.714	142767	453739	4.736	4.793
12)	S2 dcb	17.735	13.106	59416	196089	4.688	4.590
	Target Compounds						
2)	L1 1016 -1	7.573	5.257	23620	84256	48.087	50.120
3)	L1 1016-2	8.632	5.713	33126	146019	49.598	50.766
4)	L1 1016-3	9.285	6.316	39878	180478	49.220	47.798
5)	L1 1016-4	9.428	6.487	24148	105339	48.550	48.548
6)	L1 1016-5	9.698	6.569	27142	73844	49.363	47.858
	Sum 1016 -1			147914	589935	244.817	245.090
	Average 1016 -1					48.963	49.018
7)	L2 1260-1	12.463	8.795	51719	167439	49.122	48.881
8)	L2 1260-2	12.899	9.228	58291	240206	48.404	48.159
9)	L2 1260-3	13.447	9.665	60777	184930	47.955	46.921
10)	L2 1260-4	14.708	10.243	69729	116620	47.895	47.949
11)	L2 1260-5	15.289	10.757	33155	225204	48.192	46.575
	Sum 1260-1			273671	934399	241.568	238.486
	Average 1260-1					48.314	47.697

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

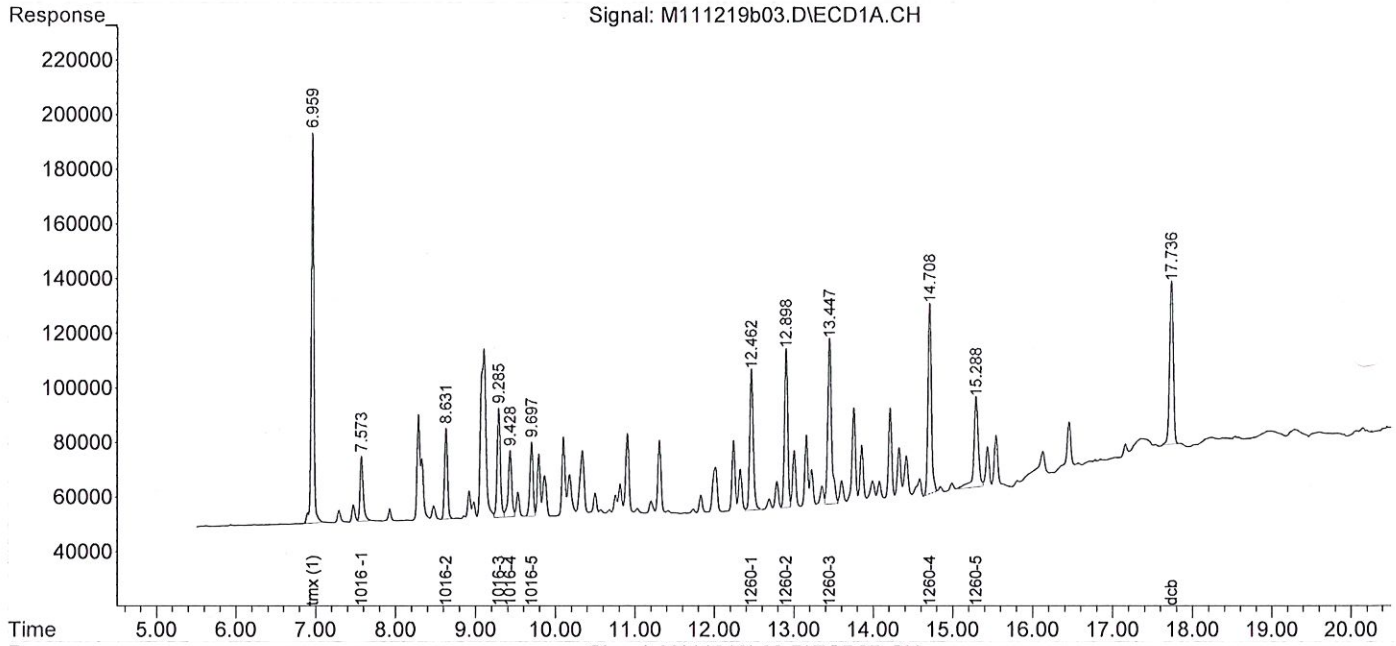
MW
11/13/19

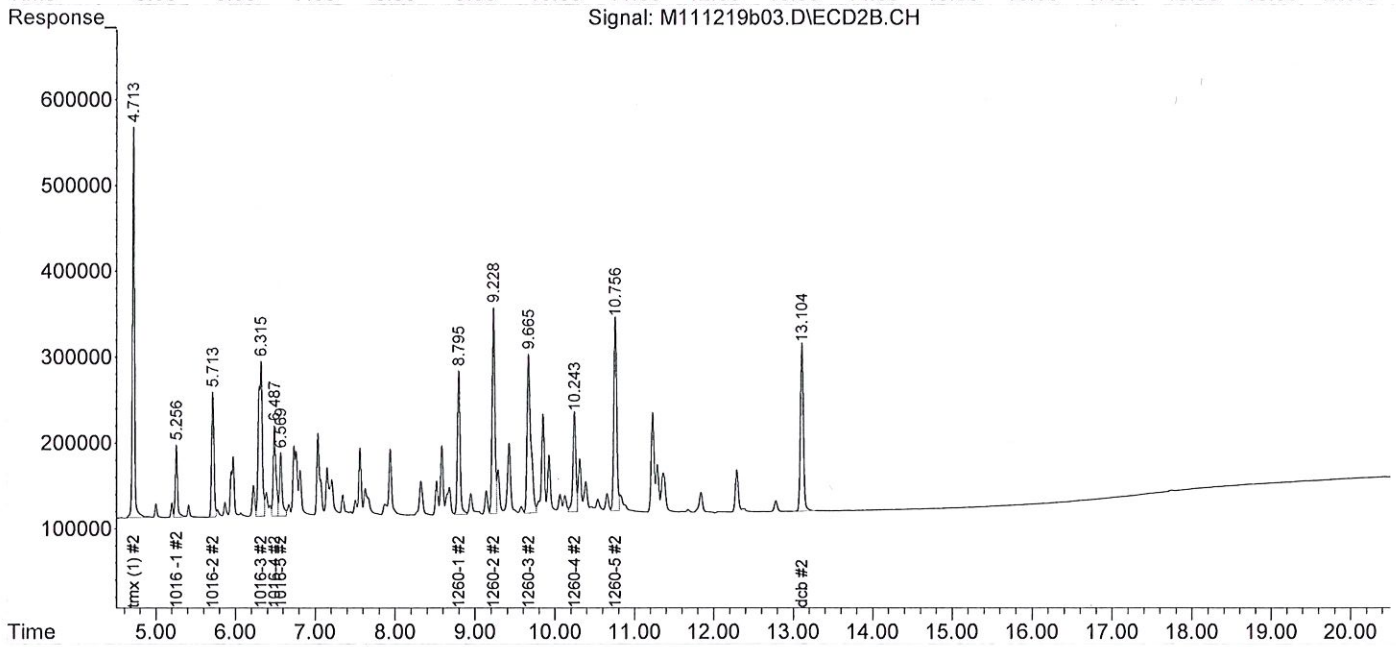
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 12:54 pm
Operator : DWOOD
Sample : 87PCB032819L
Misc : PCB 1016/1260 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 28 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:17 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 12:54 pm
Operator : DWOOD
Sample : 87PCB032819L
Misc : PCB 1016/1260 ICAL 50 pg/uL
ALS Vial : 0 (Sig #1); 28 (Sig #2) Sample Multiplier: 1

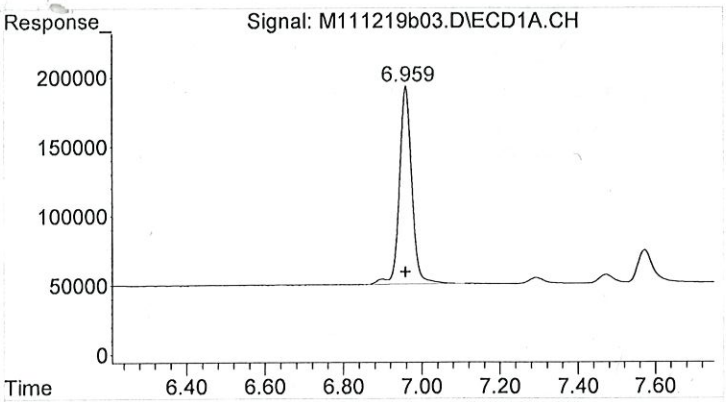
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 12 15:42:03 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
Response via : Initial Calibration
Integrator: ChemStation 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)	6.959	4.714	142767	453739	5.123	5.052	
12)	S2 dcb	17.735	13.106	59416	196089	3.023	4.068	#
	Target Compounds							
2)	L1 1016 -1	7.573	5.257	23620	84256	54.777	56.905	
3)	L1 1016-2	8.632	5.713	33126	146019	51.525	53.893	
4)	L1 1016-3	9.285	6.316	39878	180478	50.720	54.170	
5)	L1 1016-4	9.428	6.487	24148	105339	51.063	54.921	
6)	L1 1016-5	9.698	6.569	27142	73844	46.053	54.518	
	Sum 1016 -1			147914	589935	254.138	274.408	
	Average 1016 -1					50.828	54.882	
7)	L2 1260-1	12.463	8.795	51719	167439	36.981	50.207	#
8)	L2 1260-2	12.899	9.228	58291	240206	34.933	50.492	#
9)	L2 1260-3	13.447	9.665	60777	184930	33.692	50.228	#
10)	L2 1260-4	14.708	10.243	69729	116620	32.101	47.954	#
11)	L2 1260-5	15.289f	10.757	33155	225204	31.706	47.223	#
	Sum 1260-1			273671	934399	169.413	246.104	
	Average 1260-1					33.883	49.221	

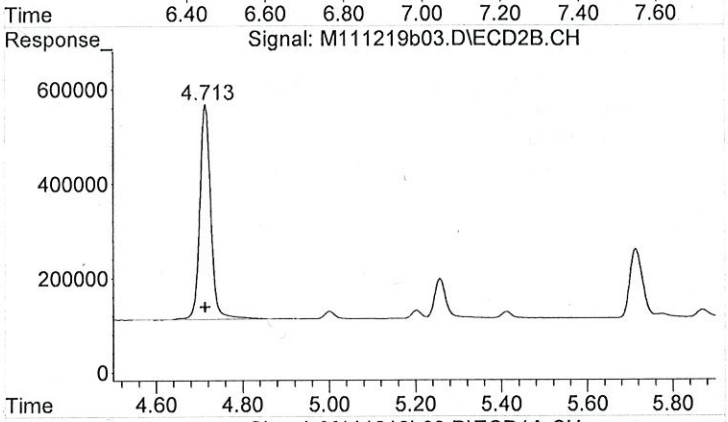
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
11/12/19



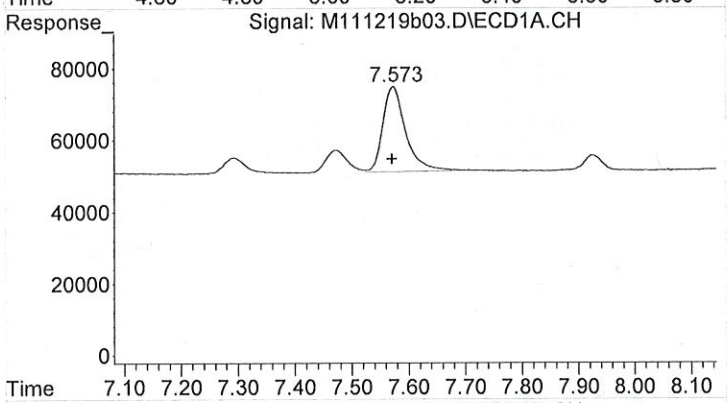
#1 tmx (1)

R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 142767
Conc: 4.74 pg/uL



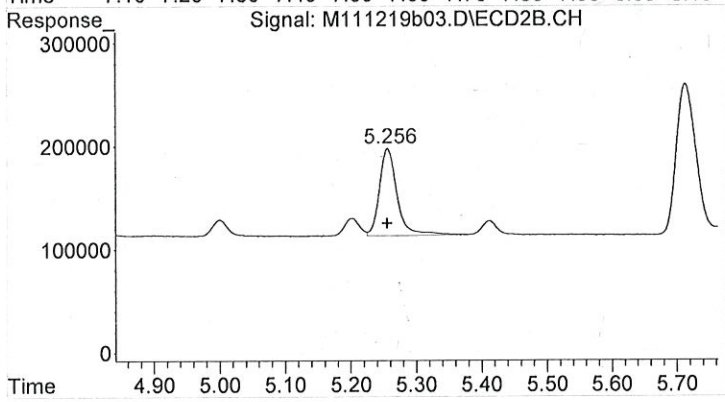
#1 tmx (1)

R.T.: 4.714 min
Delta R.T.: 0.000 min
Response: 453739
Conc: 4.79 pg/uL



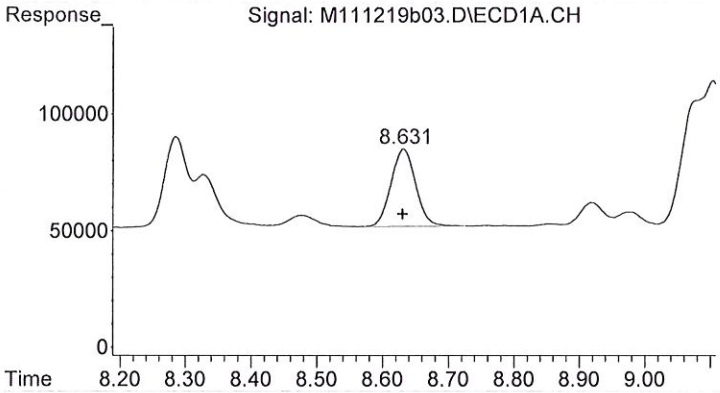
#2 1016 -1

R.T.: 7.573 min
Delta R.T.: 0.002 min
Response: 23620
Conc: 48.09 pg/uL



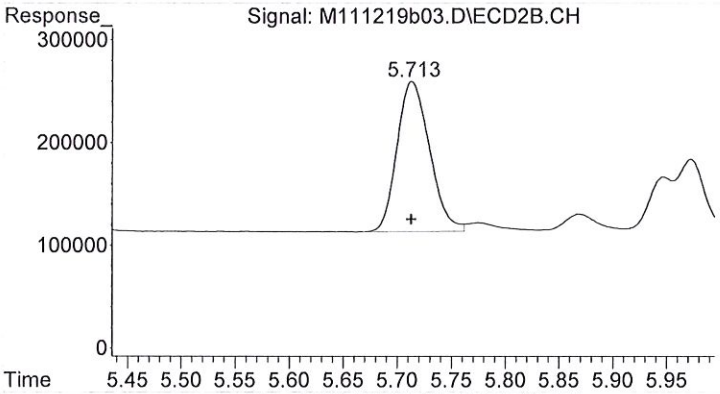
#2 1016 -1

R.T.: 5.257 min
Delta R.T.: 0.000 min
Response: 84256
Conc: 50.12 pg/uL



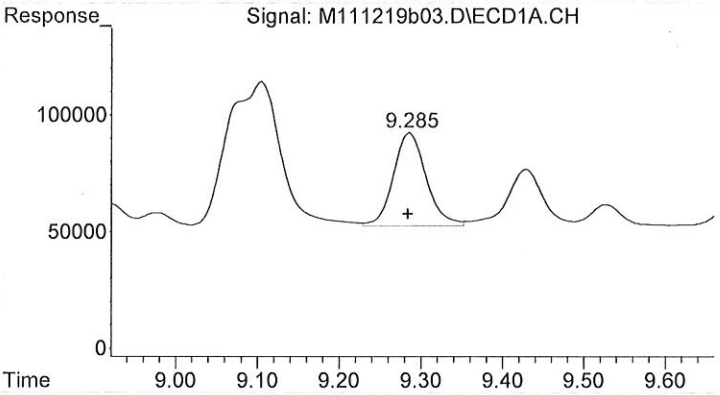
#3 1016-2

R.T.: 8.632 min
Delta R.T.: 0.000 min
Response: 33126
Conc: 49.60 pg/uL



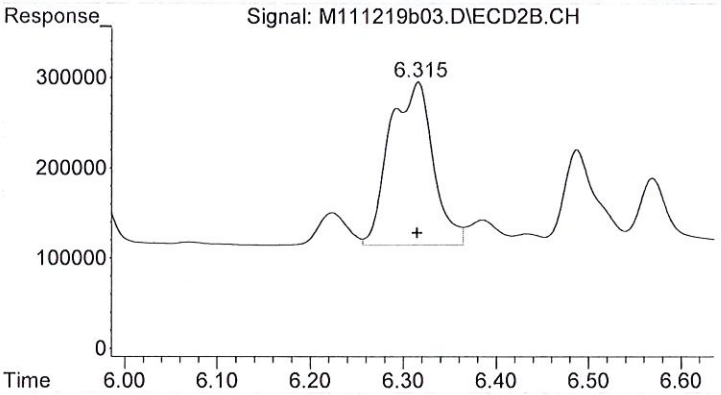
#3 1016-2

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 146019
Conc: 50.77 pg/uL



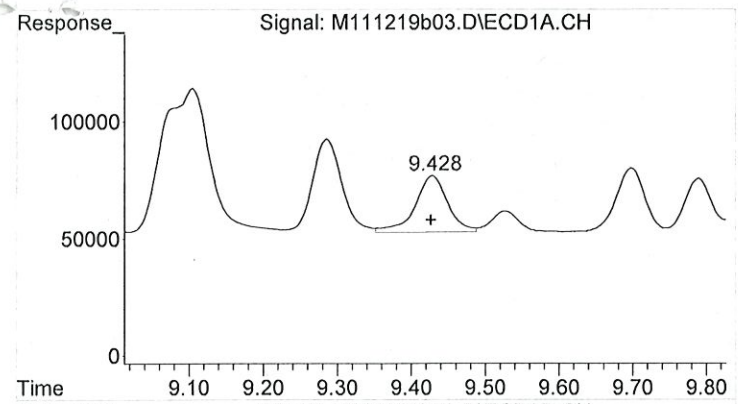
#4 1016-3

R.T.: 9.285 min
Delta R.T.: 0.001 min
Response: 39878
Conc: 49.22 pg/uL



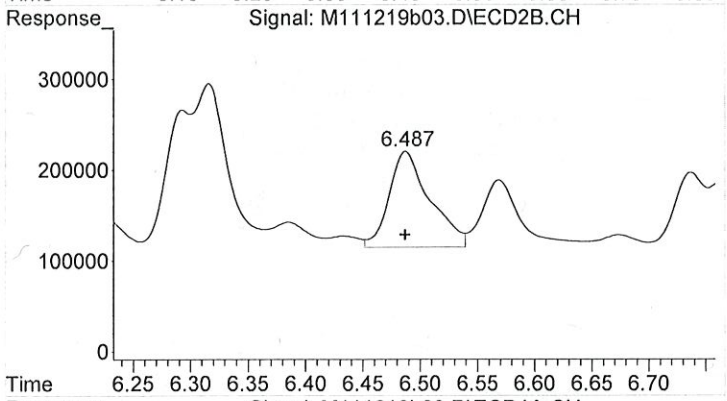
#4 1016-3

R.T.: 6.316 min
Delta R.T.: 0.000 min
Response: 180478
Conc: 47.80 pg/uL



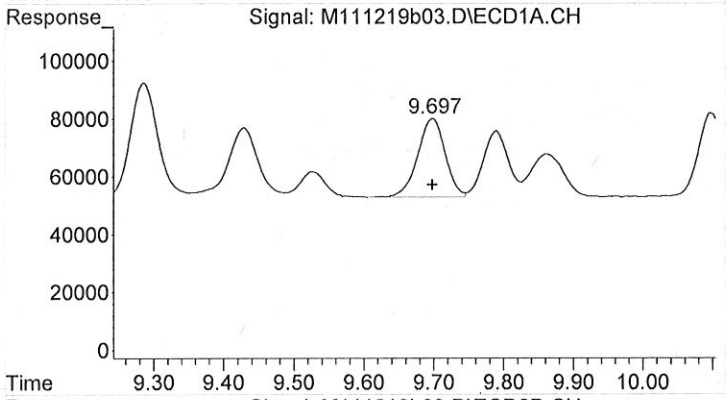
#5 1016-4

R.T.: 9.428 min
Delta R.T.: 0.001 min
Response: 24148
Conc: 48.55 pg/uL



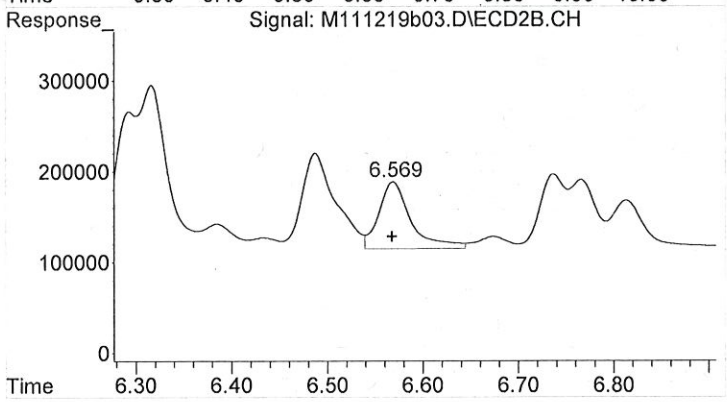
#5 1016-4

R.T.: 6.487 min
Delta R.T.: 0.000 min
Response: 105339
Conc: 48.55 pg/uL



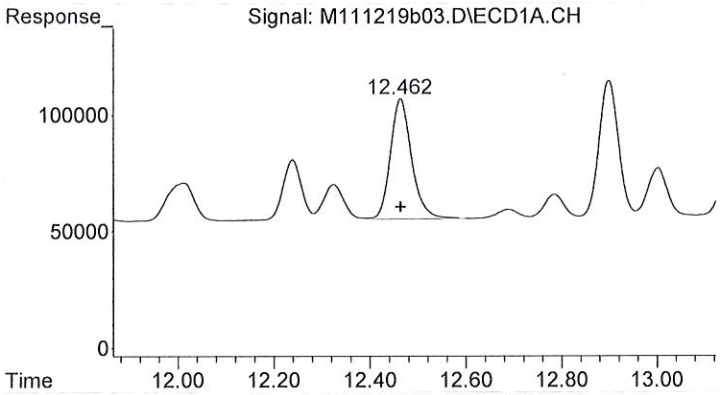
#6 1016-5

R.T.: 9.698 min
Delta R.T.: 0.000 min
Response: 27142
Conc: 49.36 pg/uL



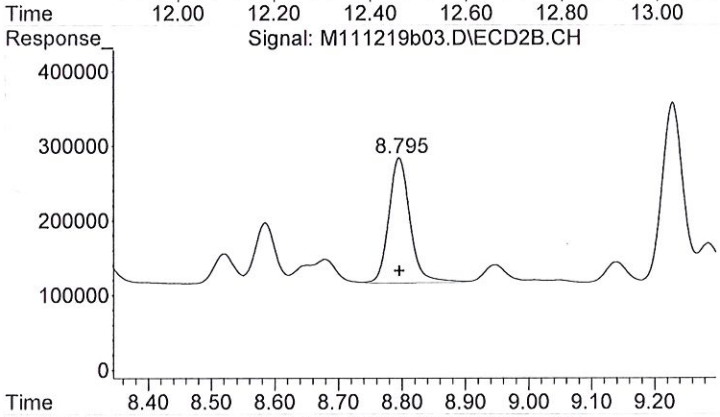
#6 1016-5

R.T.: 6.569 min
Delta R.T.: 0.000 min
Response: 73844
Conc: 47.86 pg/uL



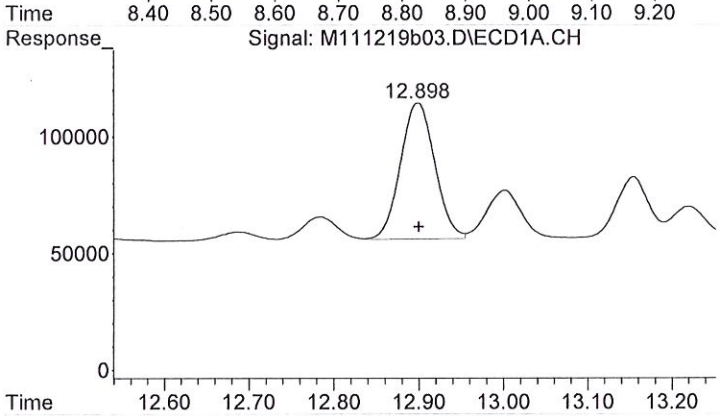
#7 1260-1

R.T.: 12.463 min
Delta R.T.: 0.000 min
Response: 51719
Conc: 49.12 pg/uL



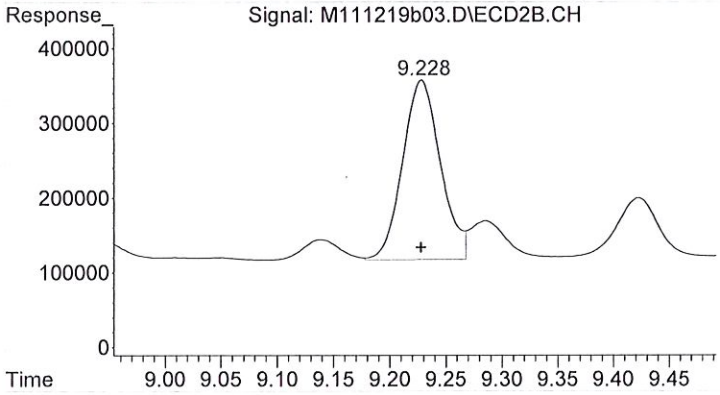
#7 1260-1

R.T.: 8.795 min
Delta R.T.: 0.000 min
Response: 167439
Conc: 48.88 pg/uL



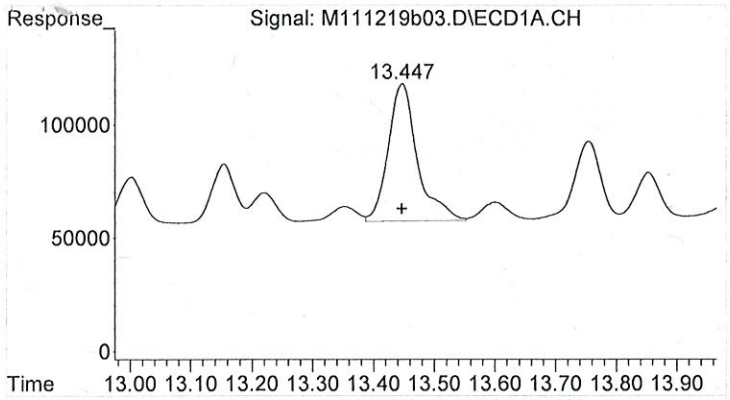
#8 1260-2

R.T.: 12.899 min
Delta R.T.: -0.001 min
Response: 58291
Conc: 48.40 pg/uL



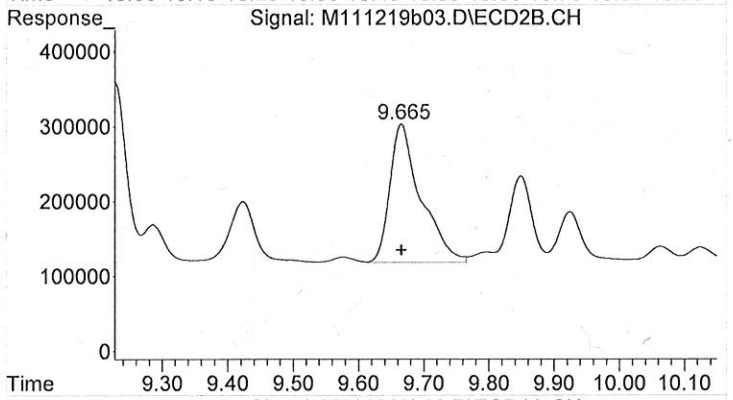
#8 1260-2

R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 240206
Conc: 48.16 pg/uL



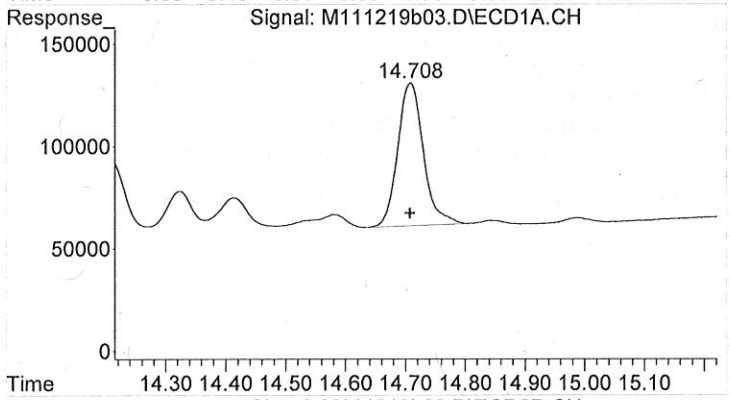
#9 1260-3

R.T.: 13.447 min
Delta R.T.: 0.000 min
Response: 60777
Conc: 47.95 pg/uL



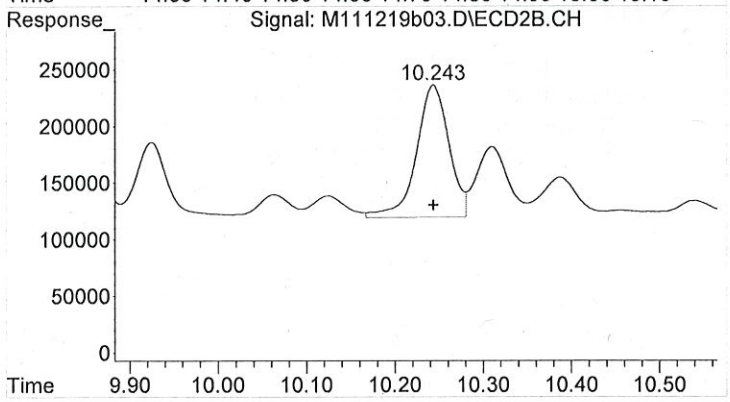
#9 1260-3

R.T.: 9.665 min
Delta R.T.: 0.000 min
Response: 184930
Conc: 46.92 pg/uL



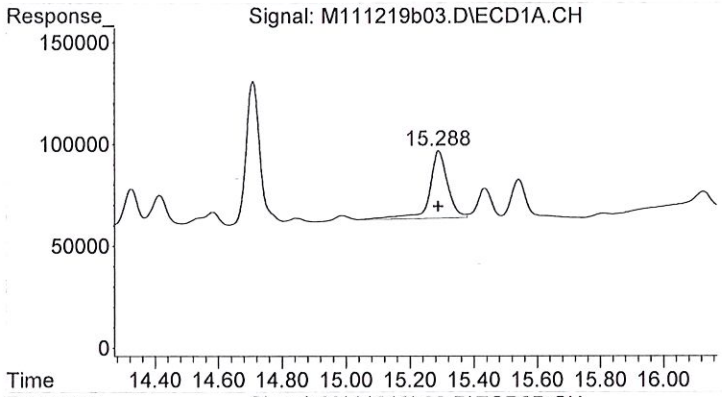
#10 1260-4

R.T.: 14.708 min
Delta R.T.: 0.000 min
Response: 69729
Conc: 47.90 pg/uL



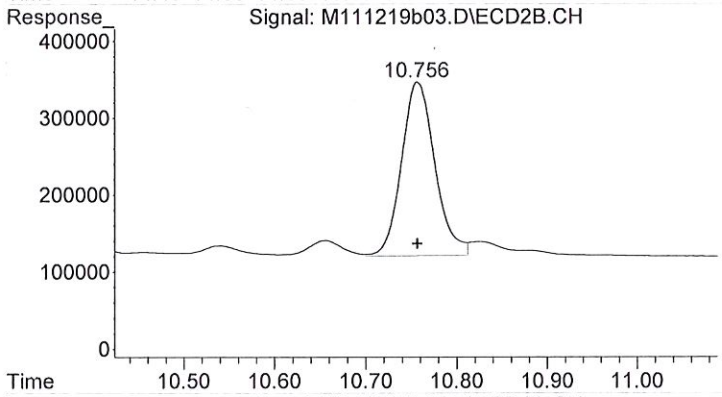
#10 1260-4

R.T.: 10.243 min
Delta R.T.: 0.000 min
Response: 116620
Conc: 47.95 pg/uL



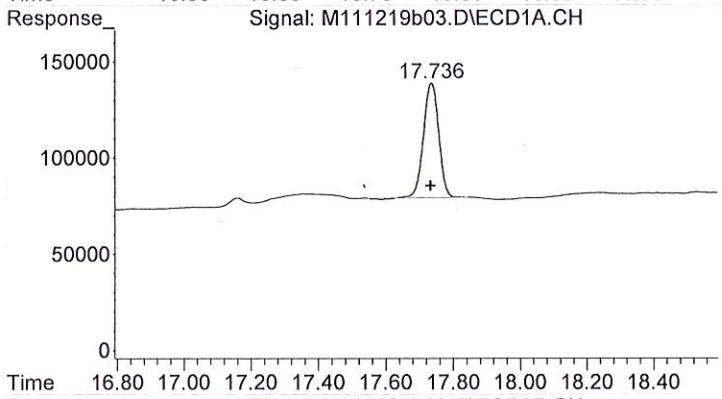
#11 1260-5

R.T.: 15.289 min
Delta R.T.: 0.000 min
Response: 33155
Conc: 48.19 pg/uL



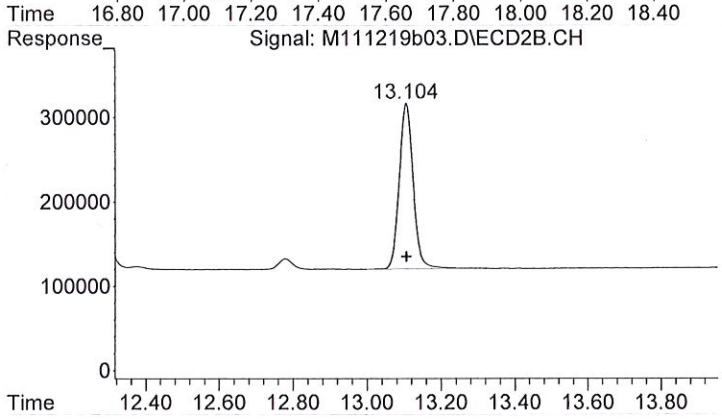
#11 1260-5

R.T.: 10.757 min
Delta R.T.: 0.000 min
Response: 225204
Conc: 46.58 pg/uL



#12 dcb

R.T.: 17.735 min
Delta R.T.: 0.002 min
Response: 59416
Conc: 4.69 pg/uL



#12 dcb

R.T.: 13.106 min
Delta R.T.: -0.001 min
Response: 196089
Conc: 4.59 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 1:18 pm
Operator : DWOOD
Sample : 87PCB061219a
Misc : PCB 1016/1260 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 29 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:22 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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)	6.959	4.713	285620	919441	9.809	10.055
12)	S2 dcb	17.733	13.107	118547	390408	9.833	9.379
	Target Compounds						
2)	L1 1016 -1	7.571	5.256	44654	161191	100.243	104.674
3)	L1 1016-2	8.631	5.713	61943	275363	103.025	103.262
4)	L1 1016-3	9.284	6.315	78934	357138	104.526	99.196
5)	L1 1016-4	9.427	6.487	48955	204955	102.304	100.680
6)	L1 1016-5	9.698	6.568	54049	146207	106.927	99.561
	Sum 1016 -1			288536	1144854	517.024	507.373
	Average 1016 -1					103.405	101.475
7)	L2 1260-1	12.464	8.796	99412	325429	100.182	102.034
8)	L2 1260-2	12.900	9.228	113743	466878	98.823	99.114
9)	L2 1260-3	13.447	9.666	120275	364871	97.402	95.302
10)	L2 1260-4	14.708	10.244	136445	225291	94.008	96.646
11)	L2 1260-5	15.289	10.757	67082	463695	99.064	96.044
	Sum 1260-1			536957	1846165	489.479	489.140
	Average 1260-1					97.896	97.828

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

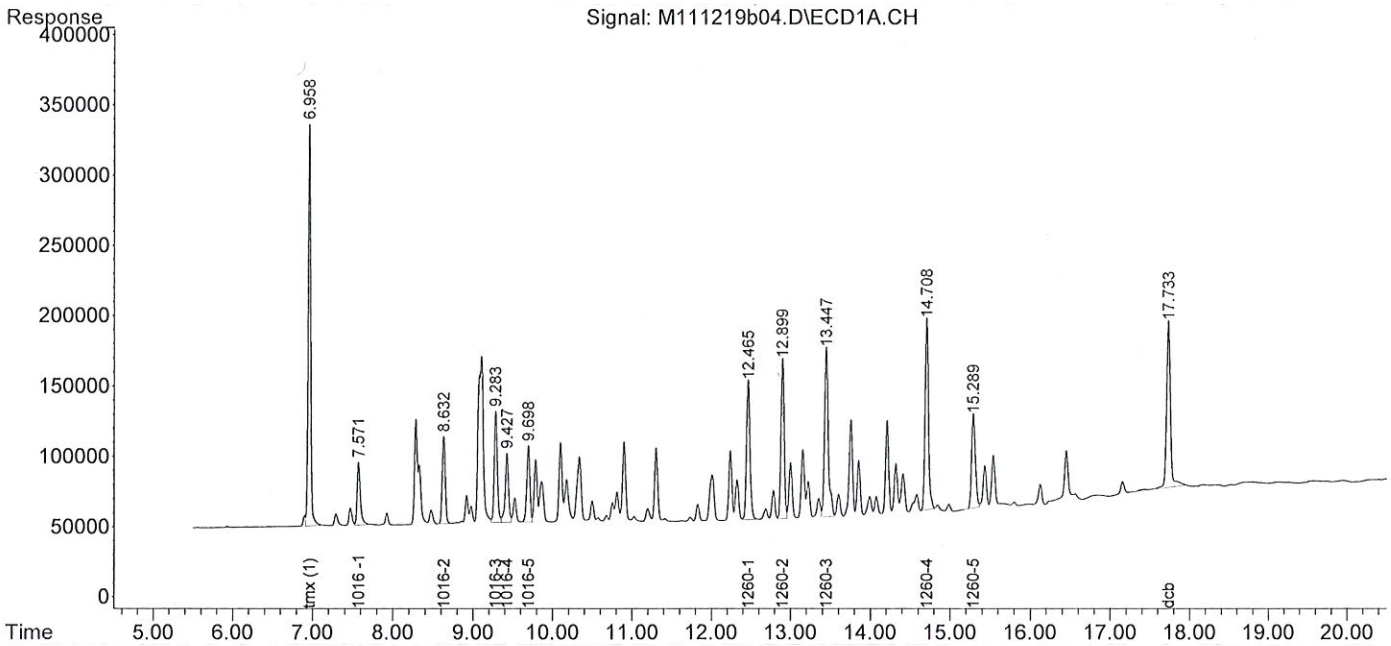
lw
11/13/19

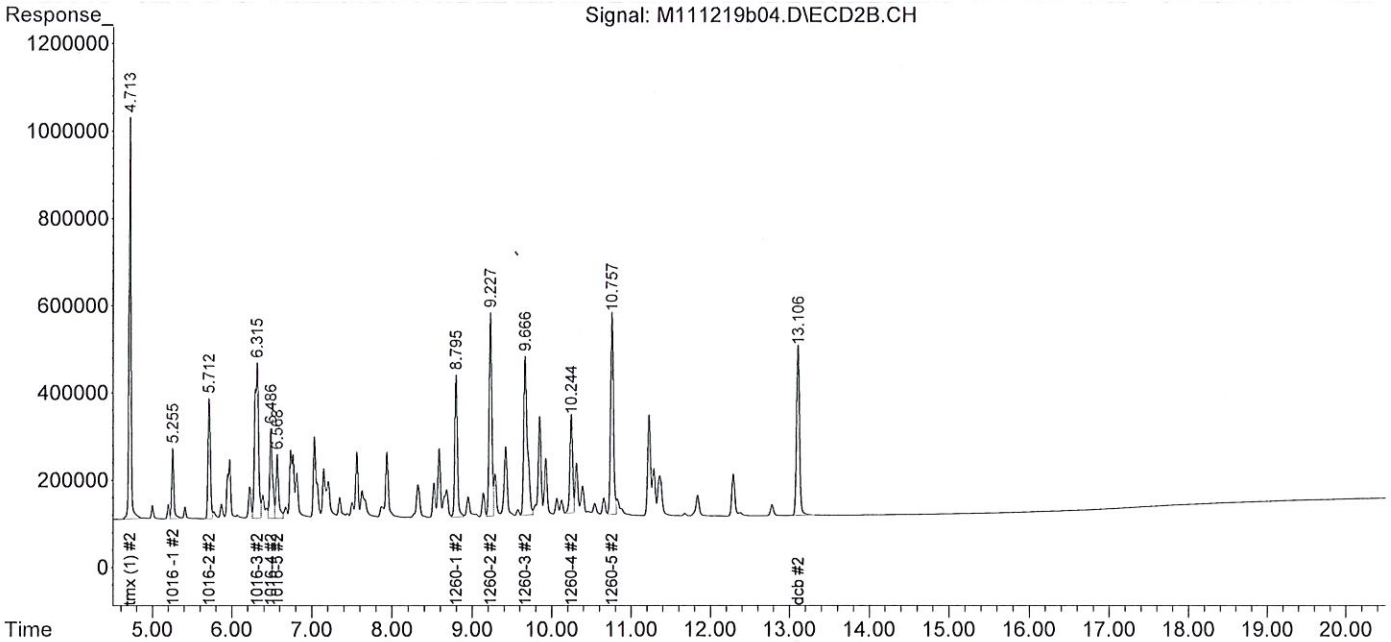
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 1:18 pm
Operator : DWOOD
Sample : 87PCB061219a
Misc : PCB 1016/1260 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 29 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:22 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 1:18 pm
Operator : DWOOD
Sample : 87PCB061219a
Misc : PCB 1016/1260 ICAL 100 pg/uL
ALS Vial : 0 (Sig #1); 29 (Sig #2) Sample Multiplier: 1

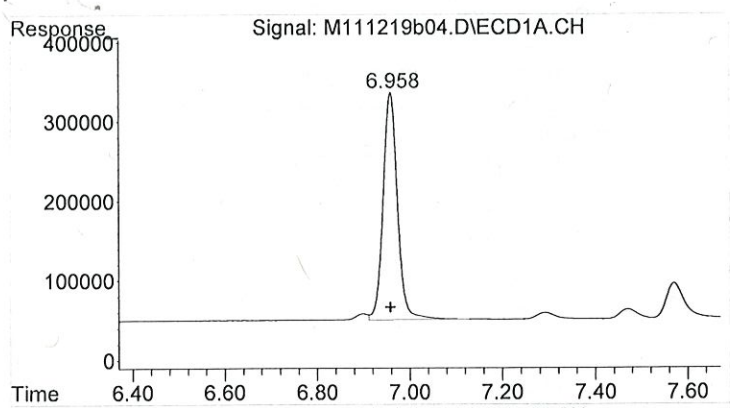
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 12 15:42:06 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
Response via : Initial Calibration
Integrator: ChemStation 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)	6.959	4.713	285620	919441	10.316	10.383	
12) S2 dcb	17.733	13.107	118547	390408	7.007	8.610	
Target Compounds							
2) L1 1016 -1	7.571	5.256	44654	161191	107.519	112.547	
3) L1 1016-2	8.631	5.713	61943	275363	104.453	107.702	
4) L1 1016-3	9.284	6.315	78934	357138	106.473	107.409	
5) L1 1016-4	9.427	6.487	48955	204955	106.400	108.763	
6) L1 1016-5	9.698	6.568	54049	146207	100.123	109.412	
Sum 1016 -1			288536	1144854	524.968	545.832	
Average 1016 -1					104.994	109.166	
7) L2 1260-1	12.464	8.796	99412	325429	80.242	102.962	#
8) L2 1260-2	12.900	9.228	113743	466878	76.457	101.472	#
9) L2 1260-3	13.447	9.666	120275	364871	73.853	99.101	#
10) L2 1260-4	14.708	10.244	136445	225291	66.998	96.149	#
11) L2 1260-5	15.289f	10.757	67082	463695	70.083	97.231	#
Sum 1260-1			536957	1846165	367.632	496.916	
Average 1260-1					73.526	99.383	

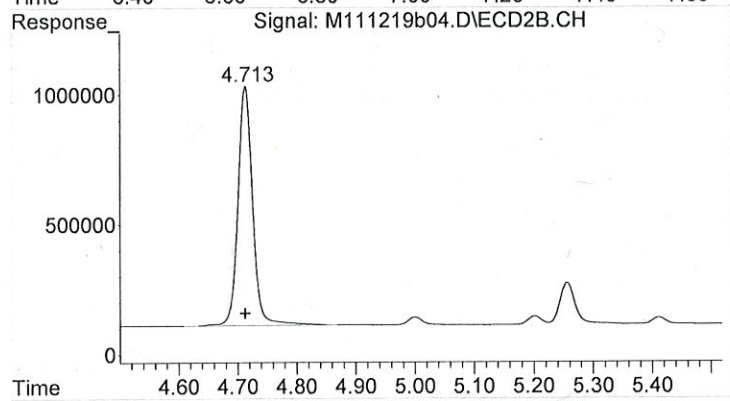
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
11/12/19



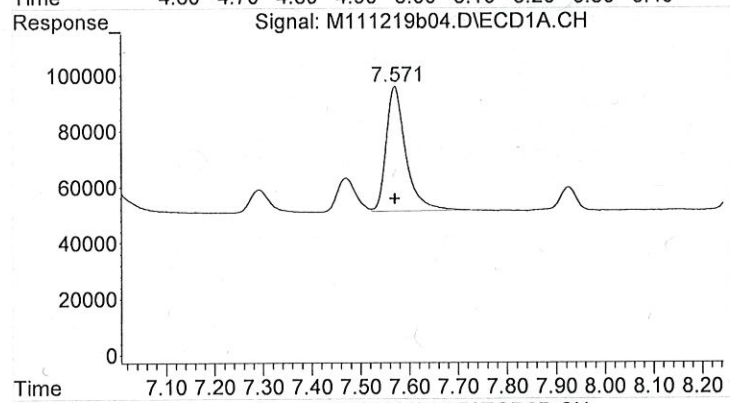
#1 tmx (1)

R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 285620
Conc: 9.81 pg/uL



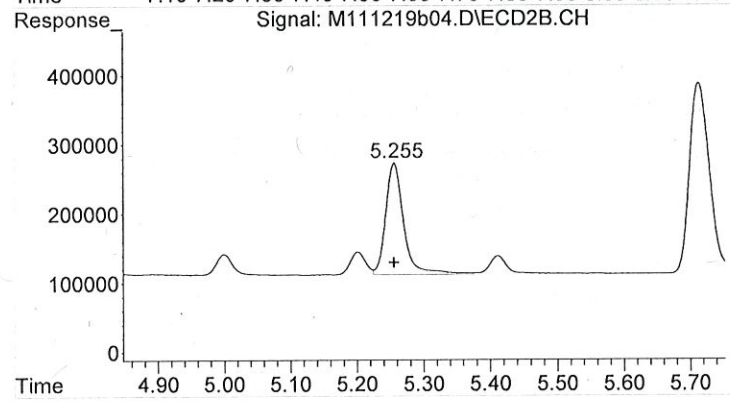
#1 tmx (1)

R.T.: 4.713 min
Delta R.T.: 0.000 min
Response: 919441
Conc: 10.06 pg/uL



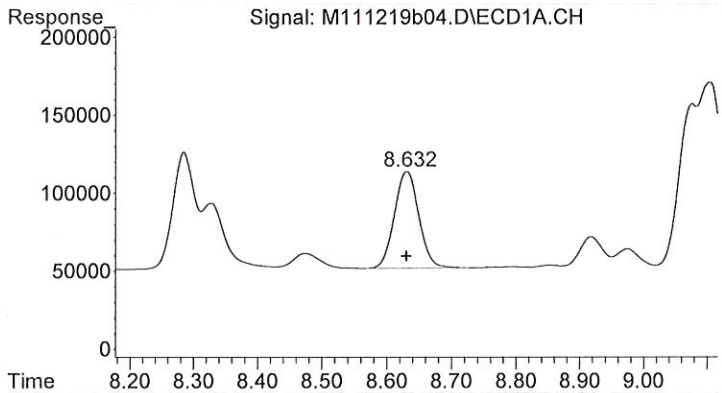
#2 1016 -1

R.T.: 7.571 min
Delta R.T.: 0.000 min
Response: 44654
Conc: 100.24 pg/uL



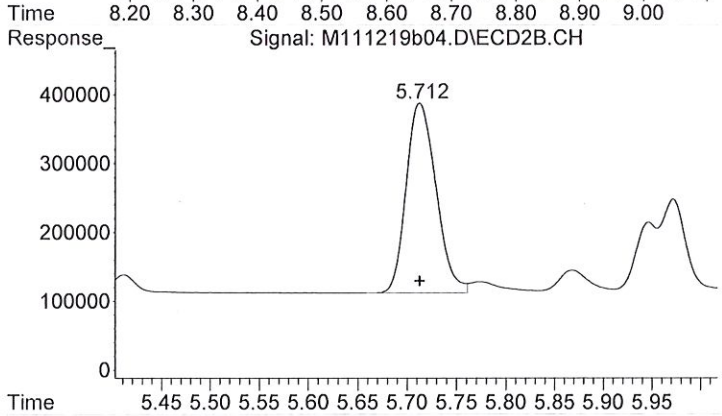
#2 1016 -1

R.T.: 5.256 min
Delta R.T.: 0.000 min
Response: 161191
Conc: 104.67 pg/uL



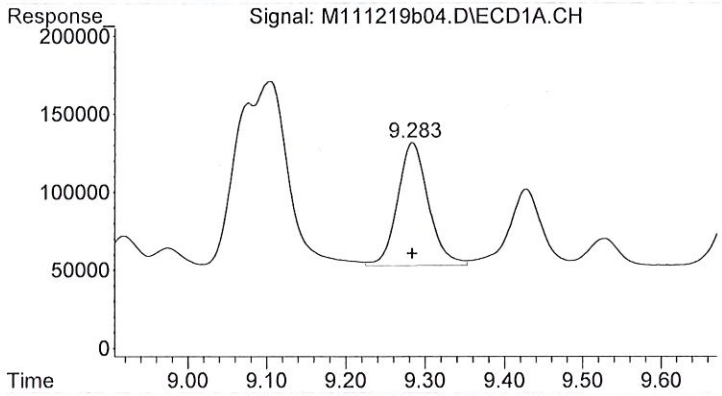
#3 1016-2

R.T.: 8.631 min
Delta R.T.: 0.000 min
Response: 61943
Conc: 103.02 pg/uL



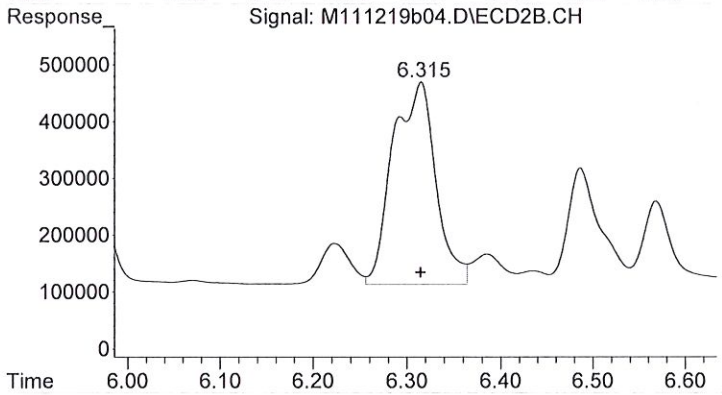
#3 1016-2

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 275363
Conc: 103.26 pg/uL



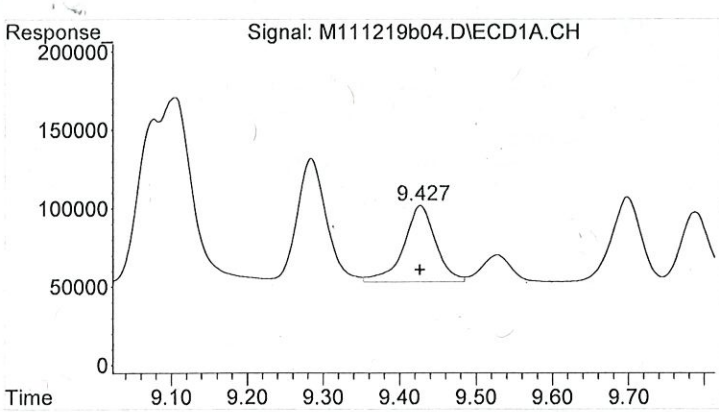
#4 1016-3

R.T.: 9.284 min
Delta R.T.: 0.000 min
Response: 78934
Conc: 104.53 pg/uL



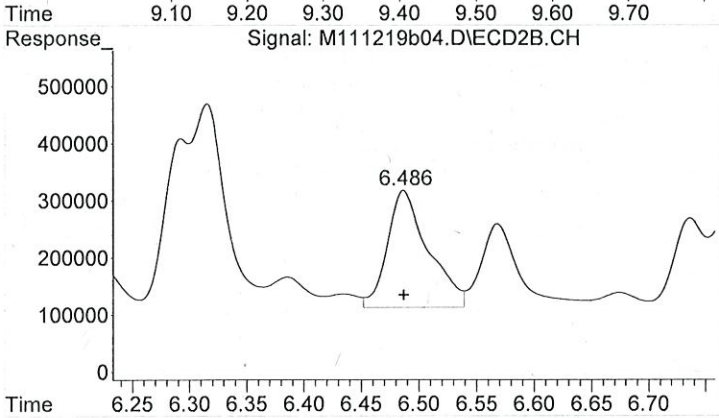
#4 1016-3

R.T.: 6.315 min
Delta R.T.: 0.000 min
Response: 357138
Conc: 99.20 pg/uL



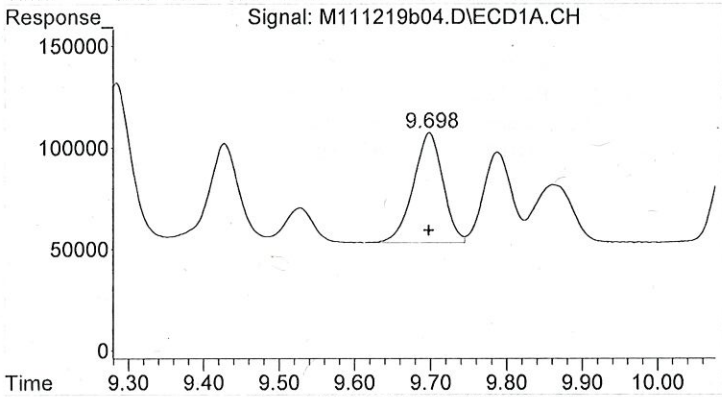
#5 1016-4

R.T.: 9.427 min
Delta R.T.: 0.000 min
Response: 48955
Conc: 102.30 pg/uL



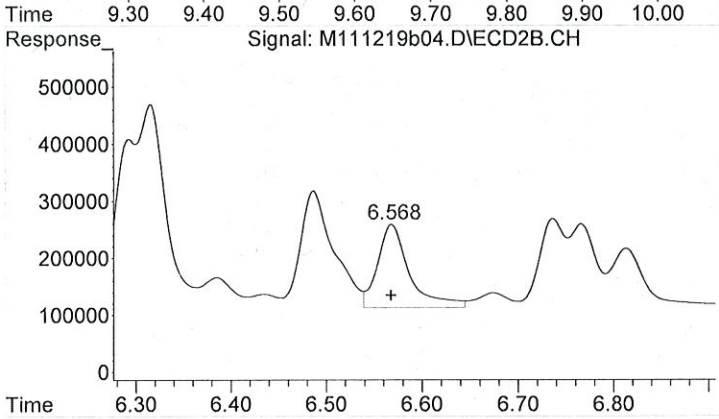
#5 1016-4

R.T.: 6.487 min
Delta R.T.: 0.000 min
Response: 204955
Conc: 100.68 pg/uL



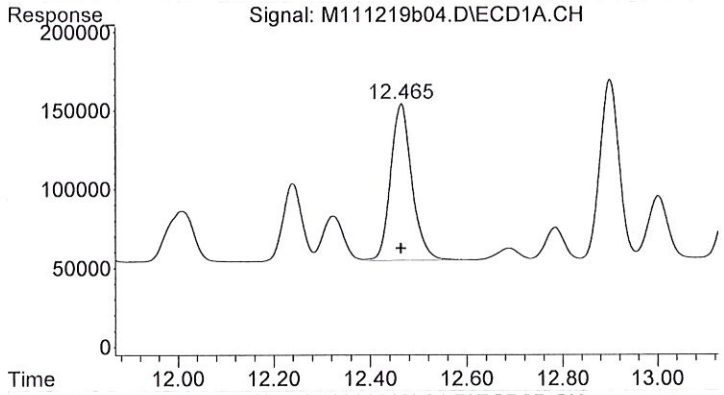
#6 1016-5

R.T.: 9.698 min
Delta R.T.: 0.000 min
Response: 54049
Conc: 106.93 pg/uL



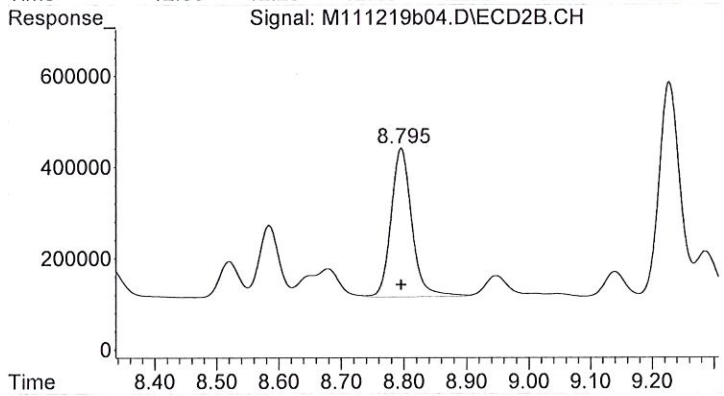
#6 1016-5

R.T.: 6.568 min
Delta R.T.: 0.000 min
Response: 146207
Conc: 99.56 pg/uL



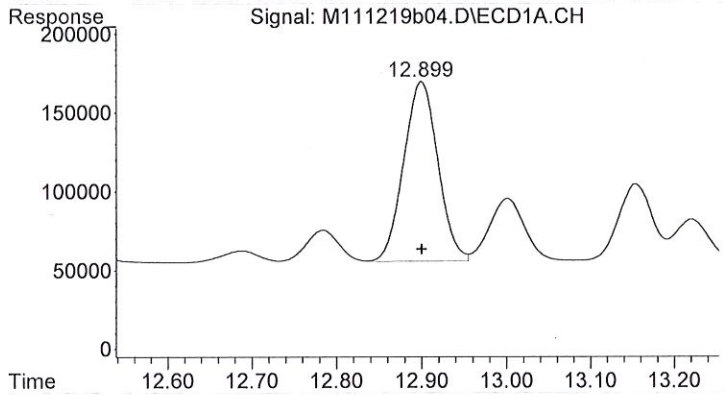
#7 1260-1

R.T.: 12.464 min
Delta R.T.: 0.000 min
Response: 99412
Conc: 100.18 pg/uL



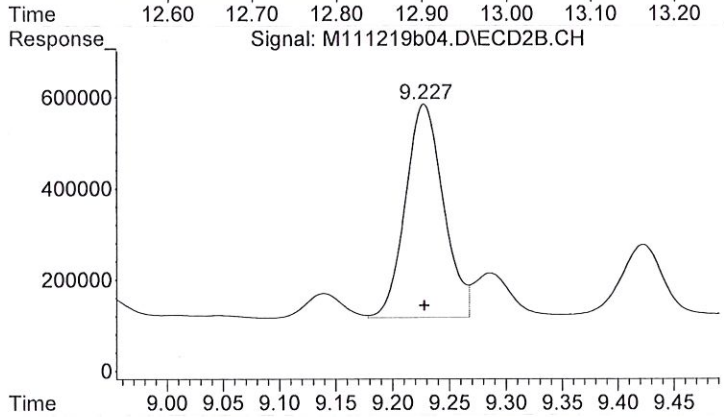
#7 1260-1

R.T.: 8.796 min
Delta R.T.: 0.000 min
Response: 325429
Conc: 102.03 pg/uL



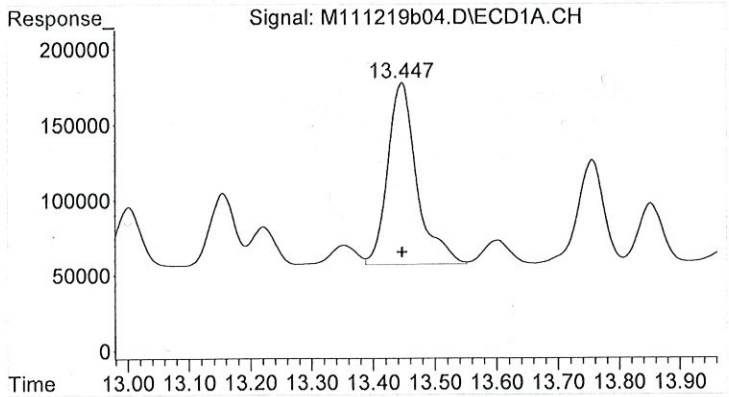
#8 1260-2

R.T.: 12.900 min
Delta R.T.: 0.000 min
Response: 113743
Conc: 98.82 pg/uL



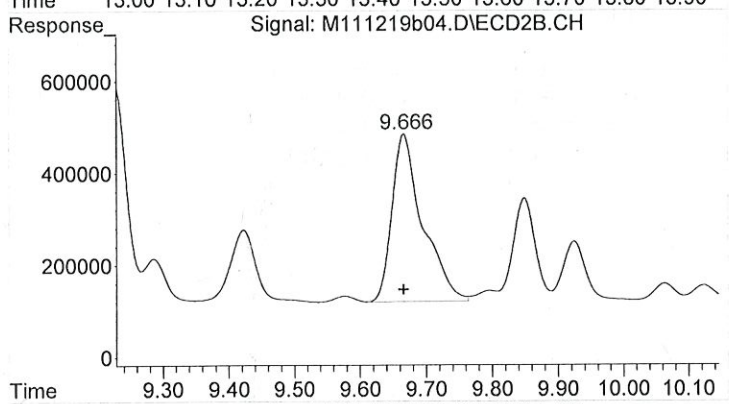
#8 1260-2

R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 466878
Conc: 99.11 pg/uL



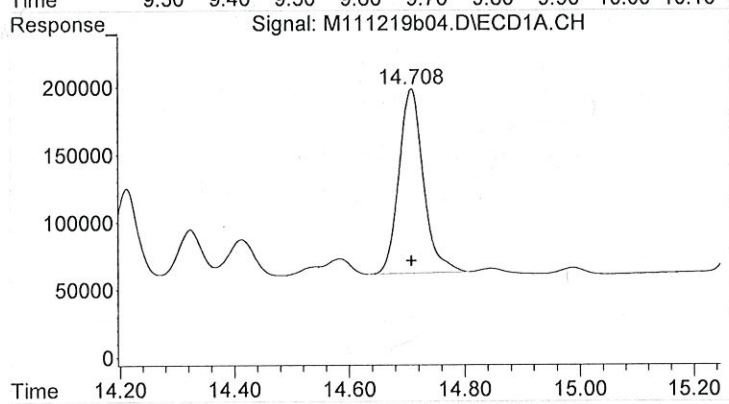
#9 1260-3

R.T.: 13.447 min
Delta R.T.: 0.000 min
Response: 120275
Conc: 97.40 pg/uL



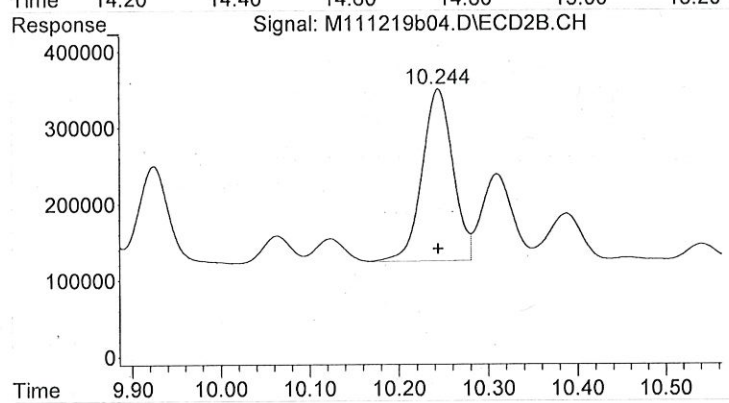
#9 1260-3

R.T.: 9.666 min
Delta R.T.: 0.000 min
Response: 364871
Conc: 95.30 pg/uL



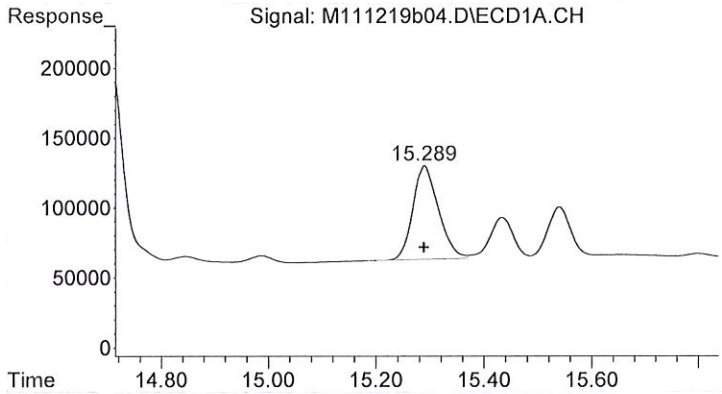
#10 1260-4

R.T.: 14.708 min
Delta R.T.: 0.000 min
Response: 136445
Conc: 94.01 pg/uL



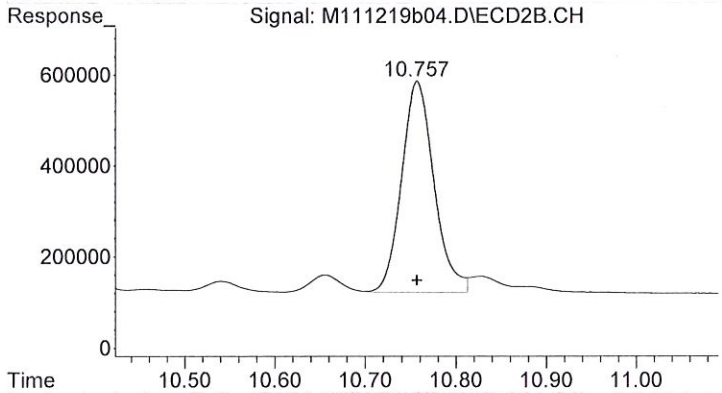
#10 1260-4

R.T.: 10.244 min
Delta R.T.: 0.000 min
Response: 225291
Conc: 96.65 pg/uL



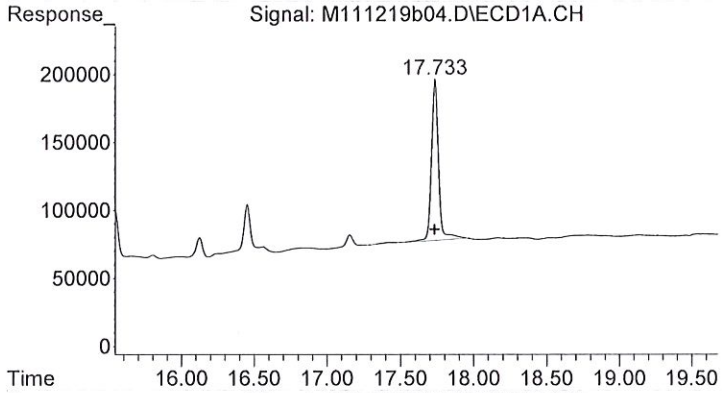
#11 1260-5

R.T.: 15.289 min
Delta R.T.: 0.000 min
Response: 67082
Conc: 99.06 pg/uL



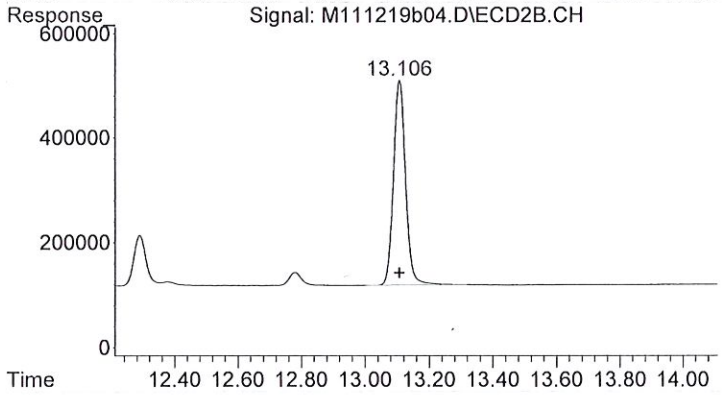
#11 1260-5

R.T.: 10.757 min
Delta R.T.: 0.000 min
Response: 463695
Conc: 96.04 pg/uL



#12 dcb

R.T.: 17.733 min
Delta R.T.: 0.000 min
Response: 118547
Conc: 9.83 pg/uL



#12 dcb

R.T.: 13.107 min
Delta R.T.: 0.000 min
Response: 390408
Conc: 9.38 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 1:43 pm
Operator : DWOOD
Sample : 87PCB032819N
Misc : PCB 1016/1260 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 30 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:27 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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)	6.959	4.714	795007	2507441	27.898	28.000
12)	S2 dcb	17.733	13.107	312181	1072345	26.682	26.188
	Target Compounds						
2)	L1 1016 -1	7.570	5.255	118405	413792	283.117	283.789
3)	L1 1016-2	8.631	5.713	160111	698836	285.021	275.136
4)	L1 1016-3	9.284	6.315	206240	969638	284.801	277.400
5)	L1 1016-4	9.426	6.486	130699	545049	279.438	278.661
6)	L1 1016-5	9.697	6.568	136340	389031	282.972	273.055
	Sum 1016 -1			751795	3016346	1415.349	1388.040
	Average 1016 -1					283.070	277.608
7)	L2 1260-1	12.463	8.795	261667	835363	273.893	273.592
8)	L2 1260-2	12.899	9.227	301676	1258865	269.699	277.149
9)	L2 1260-3	13.447	9.665	320552	1013937	263.846	269.816
10)	L2 1260-4	14.707	10.245	375934	622689	259.536	274.725
11)	L2 1260-5	15.291	10.758	179778	1307358	268.044	271.040
	Sum 1260-1			1439607	5038212	1335.019	1366.322
	Average 1260-1					267.004	273.264

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

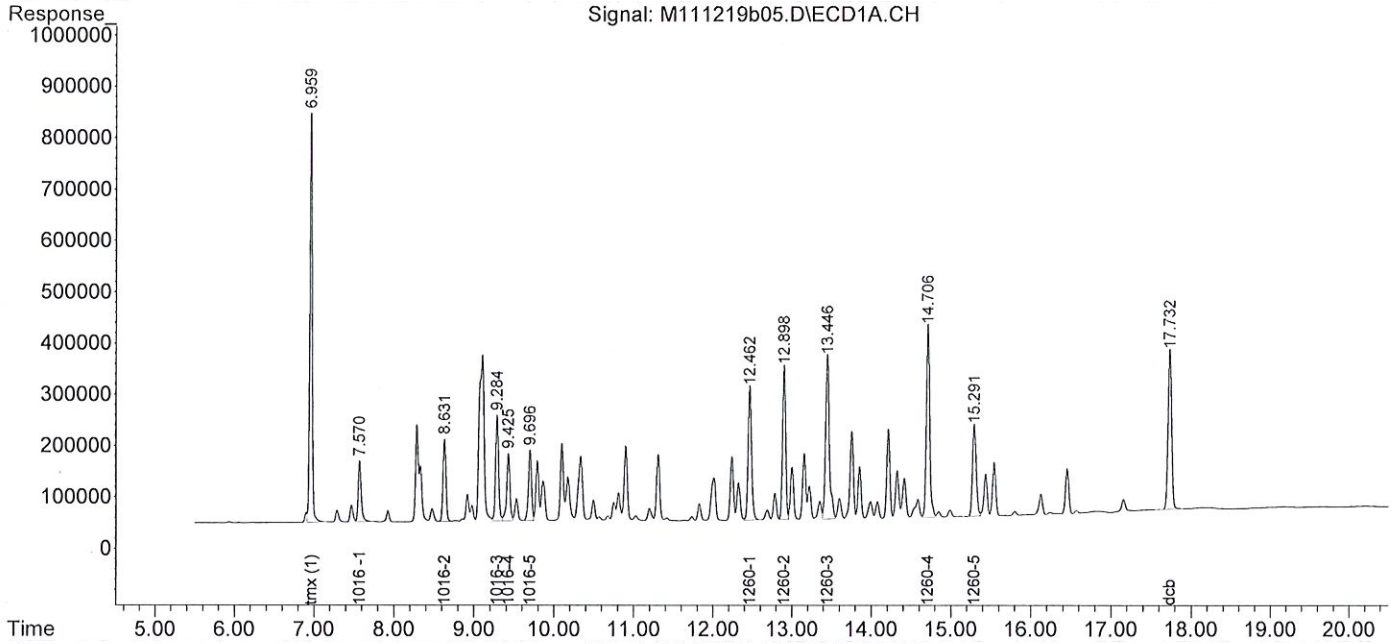
LW
11/13/19

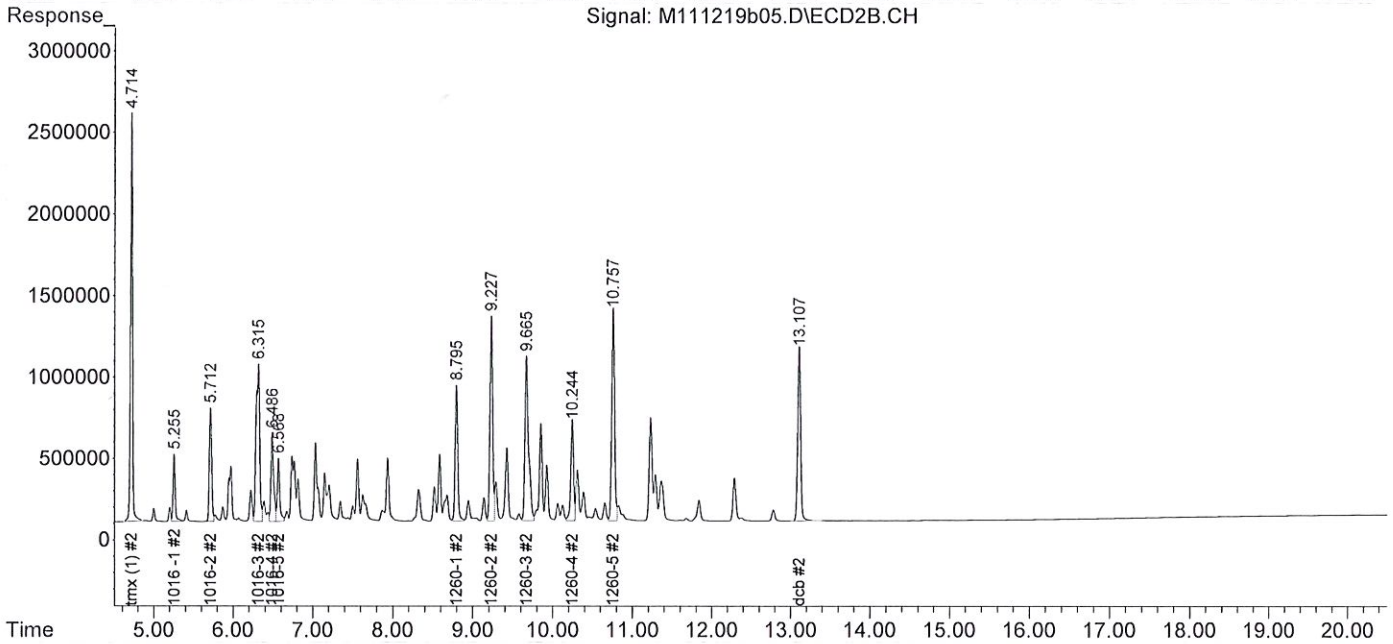
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 1:43 pm
Operator : DWOOD
Sample : 87PCB032819N
Misc : PCB 1016/1260 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 30 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:27 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 1:43 pm
Operator : DWOOD
Sample : 87PCB032819N
Misc : PCB 1016/1260 ICAL 250 pg/uL
ALS Vial : 0 (Sig #1); 30 (Sig #2) Sample Multiplier: 1

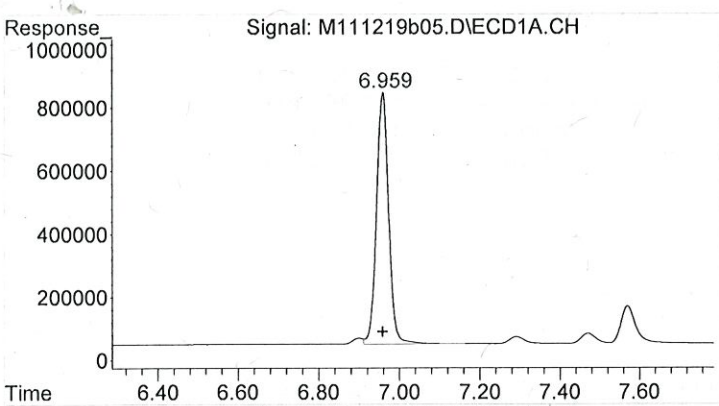
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 12 15:42:09 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
Response via : Initial Calibration
Integrator: ChemStation 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)	6.959	4.714	795007	2507441	28.833	28.561	
12)	S2 dcb	17.733	13.107	312181	1072345	20.054	24.549	
	Target Compounds							
2)	L1 1016 -1	7.570	5.255	118405	413792	292.444	295.234	
3)	L1 1016-2	8.631	5.713	160111	698836	284.755	283.875	
4)	L1 1016-3	9.284	6.315	206240	969638	288.203	291.992	
5)	L1 1016-4	9.426	6.486	130699	545049	288.746	292.579	
6)	L1 1016-5	9.697	6.568	136340	389031	272.617	293.612	
	Sum 1016 -1			751795	3016346	1426.766	1457.292	
	Average 1016 -1					285.353	291.458	
7)	L2 1260-1	12.463	8.795	261667	835363	227.420	273.233	
8)	L2 1260-2	12.899	9.227	301676	1258865	217.187	279.593	#
9)	L2 1260-3	13.447	9.665	320552	1013937	209.040	275.392	#
10)	L2 1260-4	14.707	10.245	375934	622689	192.265	272.392	#
11)	L2 1260-5	15.291f	10.758	179778	1307358	197.556	274.138	#
	Sum 1260-1			1439607	5038212	1043.468	1374.748	
	Average 1260-1					208.694	274.950	

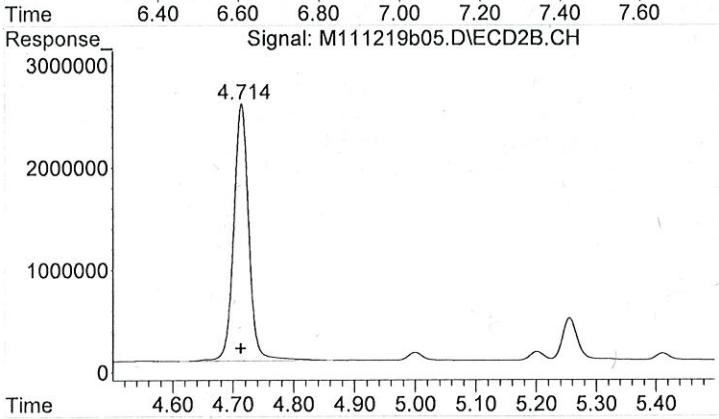
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
11/12/19



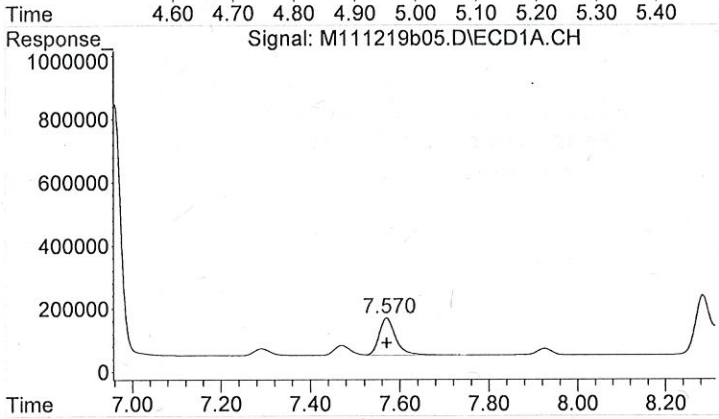
#1 tmx (1)

R.T.: 6.959 min
Delta R.T.: 0.000 min
Response: 795007
Conc: 27.90 pg/uL



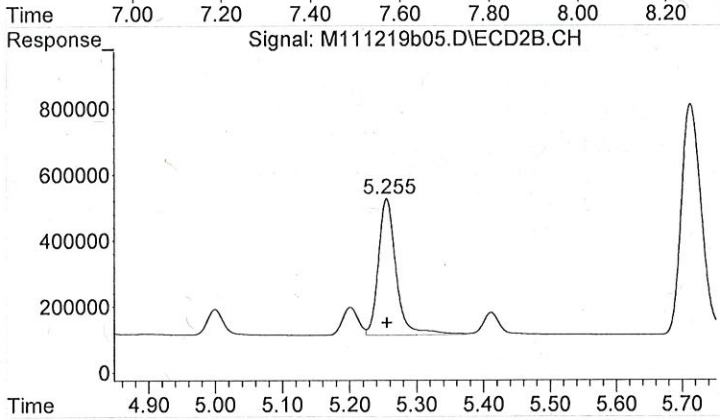
#1 tmx (1)

R.T.: 4.714 min
Delta R.T.: 0.001 min
Response: 2507441
Conc: 28.00 pg/uL



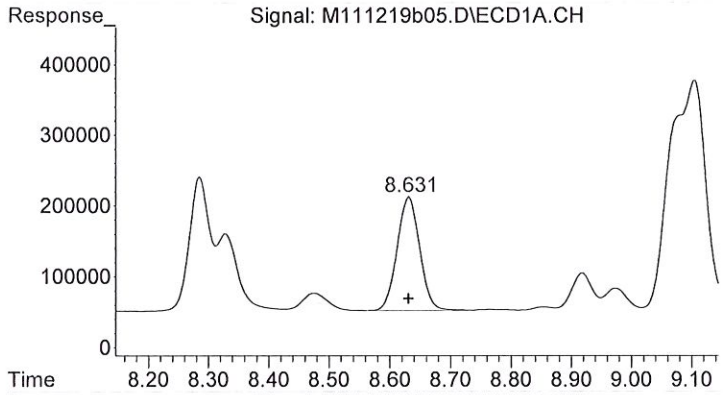
#2 1016 -1

R.T.: 7.570 min
Delta R.T.: 0.000 min
Response: 118405
Conc: 283.12 pg/uL



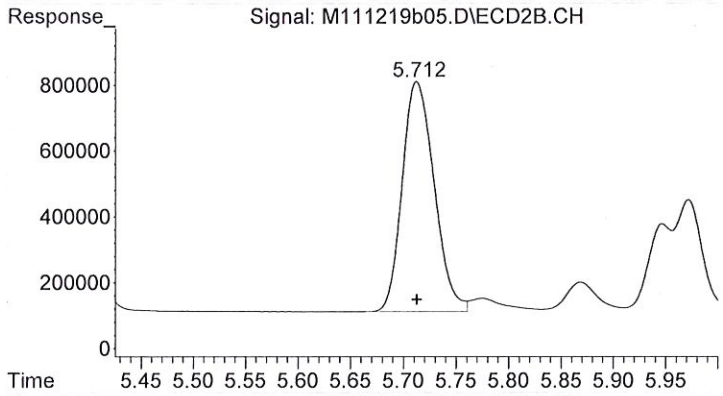
#2 1016 -1

R.T.: 5.255 min
Delta R.T.: 0.000 min
Response: 413792
Conc: 283.79 pg/uL



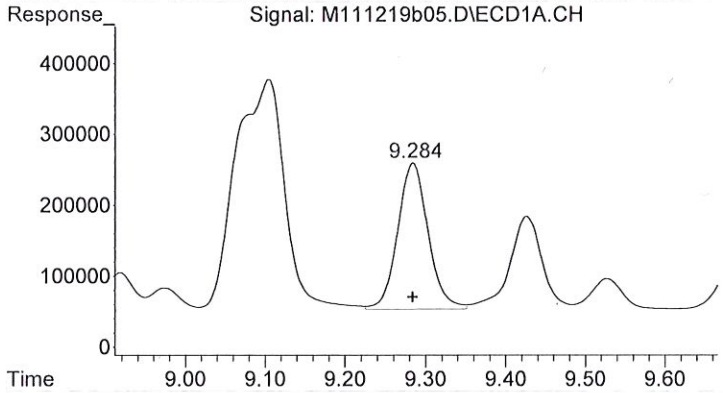
#3 1016-2

R.T.: 8.631 min
Delta R.T.: 0.000 min
Response: 160111
Conc: 285.02 pg/uL



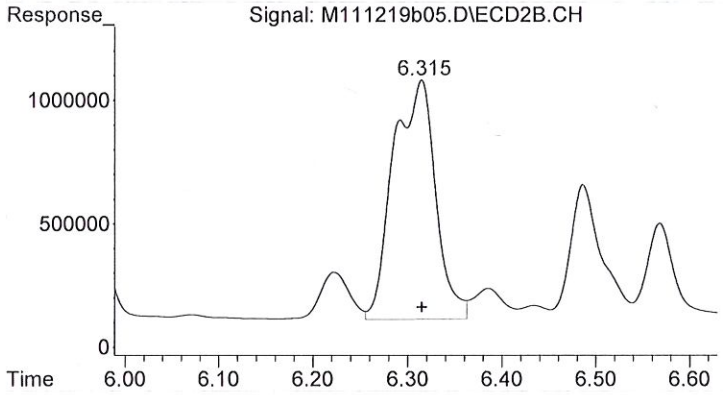
#3 1016-2

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 698836
Conc: 275.14 pg/uL



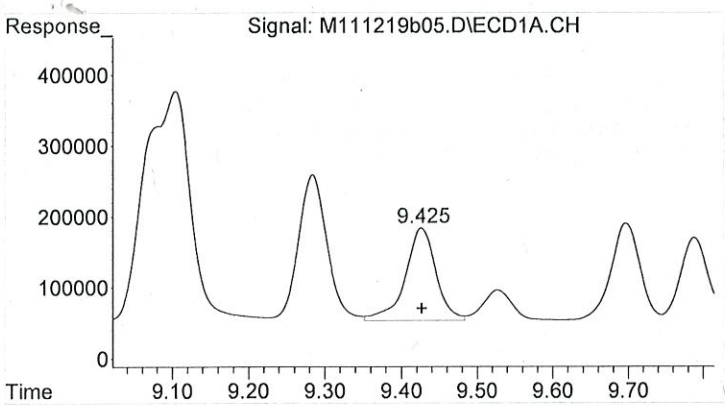
#4 1016-3

R.T.: 9.284 min
Delta R.T.: 0.000 min
Response: 206240
Conc: 284.80 pg/uL



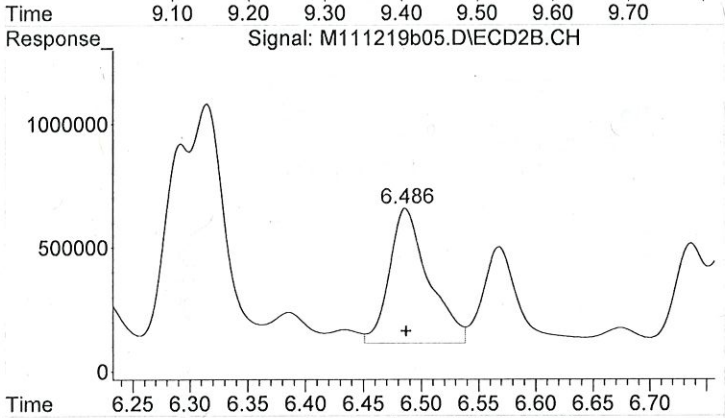
#4 1016-3

R.T.: 6.315 min
Delta R.T.: 0.000 min
Response: 969638
Conc: 277.40 pg/uL



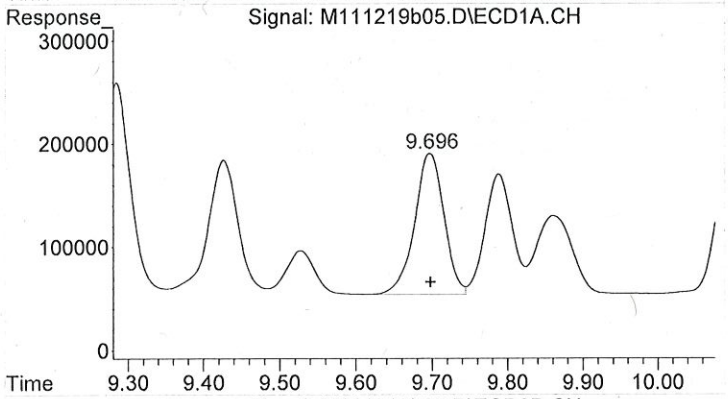
#5 1016-4

R.T.: 9.426 min
Delta R.T.: 0.000 min
Response: 130699
Conc: 279.44 pg/uL



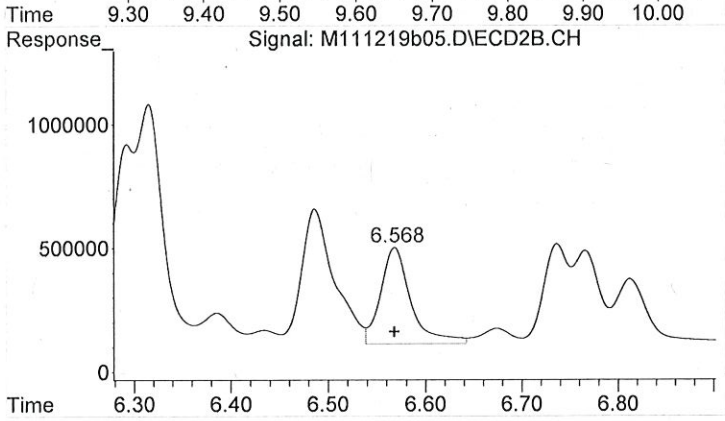
#5 1016-4

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 545049
Conc: 278.66 pg/uL



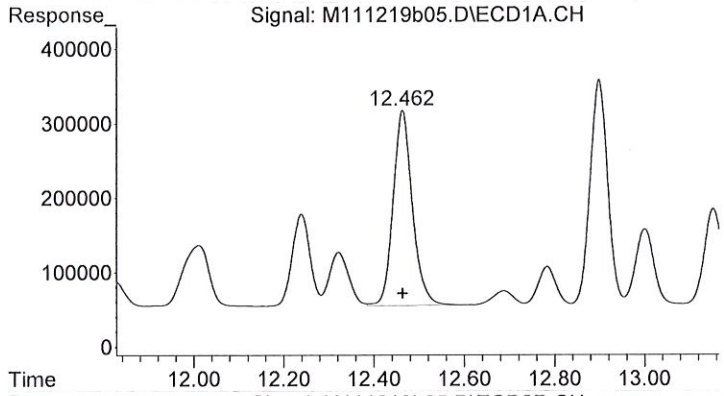
#6 1016-5

R.T.: 9.697 min
Delta R.T.: -0.001 min
Response: 136340
Conc: 282.97 pg/uL



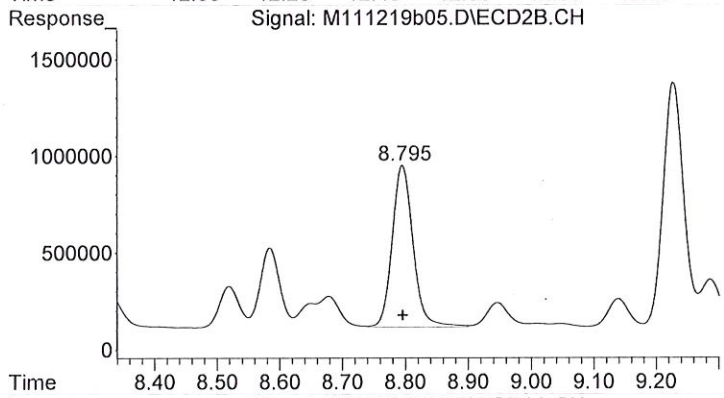
#6 1016-5

R.T.: 6.568 min
Delta R.T.: 0.000 min
Response: 389031
Conc: 273.06 pg/uL



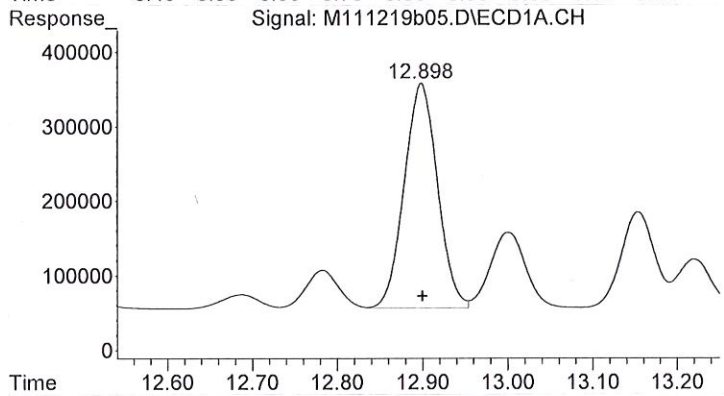
#7 1260-1

R.T.: 12.463 min
Delta R.T.: 0.000 min
Response: 261667
Conc: 273.89 pg/uL



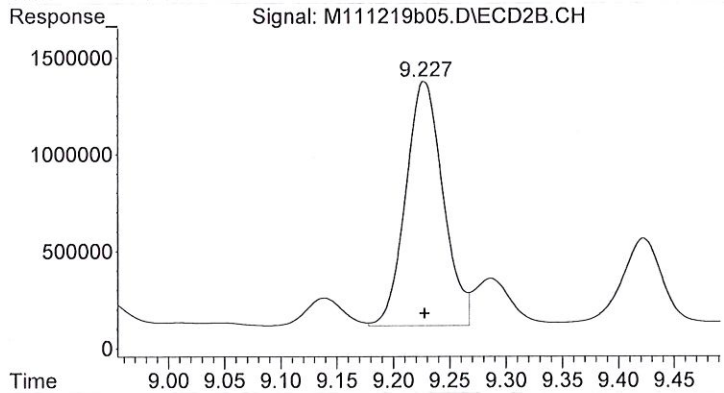
#7 1260-1

R.T.: 8.795 min
Delta R.T.: 0.000 min
Response: 835363
Conc: 273.59 pg/uL



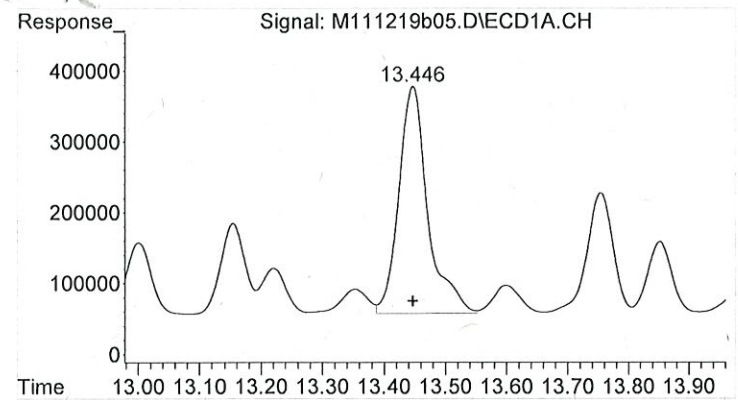
#8 1260-2

R.T.: 12.899 min
Delta R.T.: -0.002 min
Response: 301676
Conc: 269.70 pg/uL



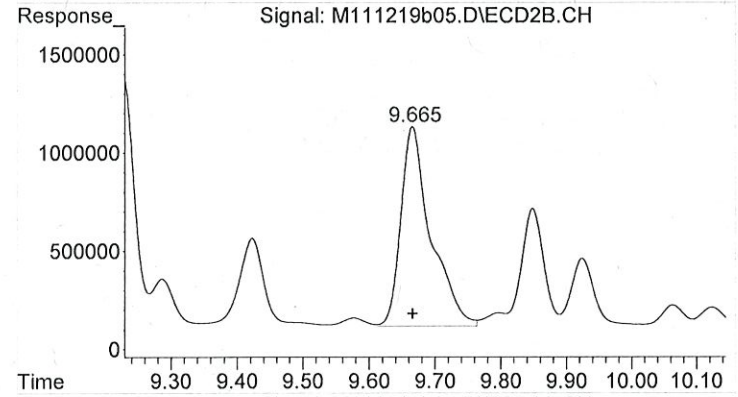
#8 1260-2

R.T.: 9.227 min
Delta R.T.: 0.000 min
Response: 1258865
Conc: 277.15 pg/uL



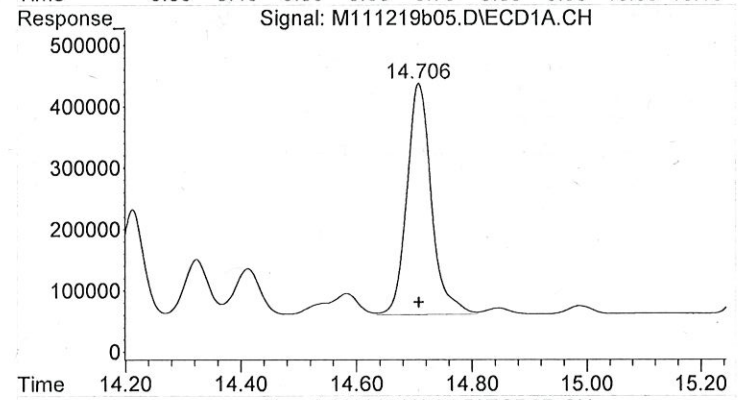
#9 1260-3

R.T.: 13.447 min
Delta R.T.: 0.000 min
Response: 320552
Conc: 263.85 pg/uL



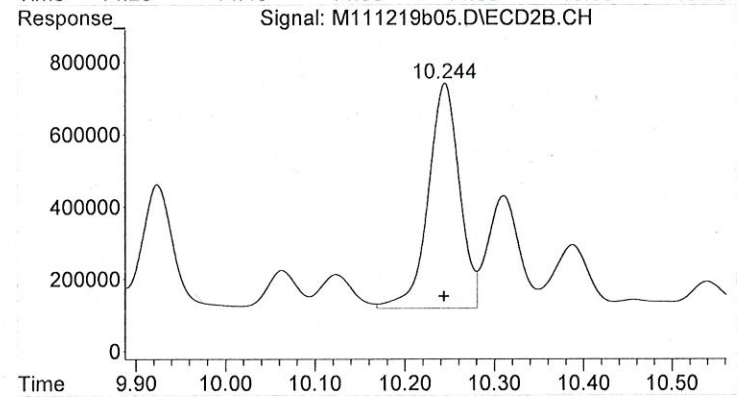
#9 1260-3

R.T.: 9.665 min
Delta R.T.: 0.000 min
Response: 1013937
Conc: 269.82 pg/uL



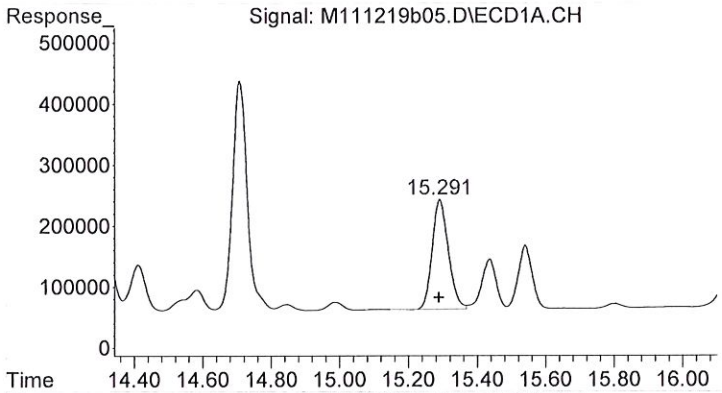
#10 1260-4

R.T.: 14.707 min
Delta R.T.: -0.001 min
Response: 375934
Conc: 259.54 pg/uL



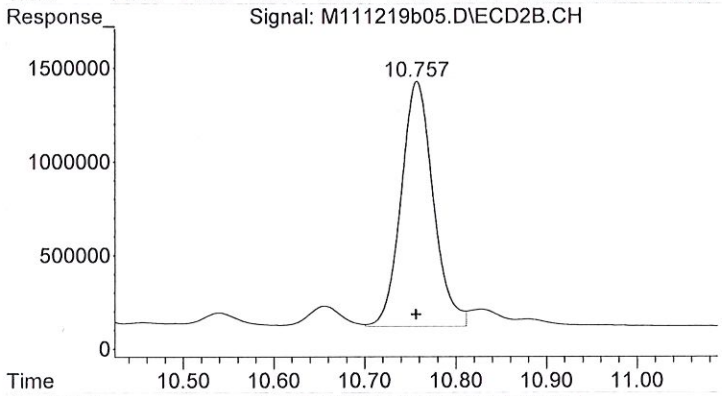
#10 1260-4

R.T.: 10.245 min
Delta R.T.: 0.000 min
Response: 622689
Conc: 274.73 pg/uL



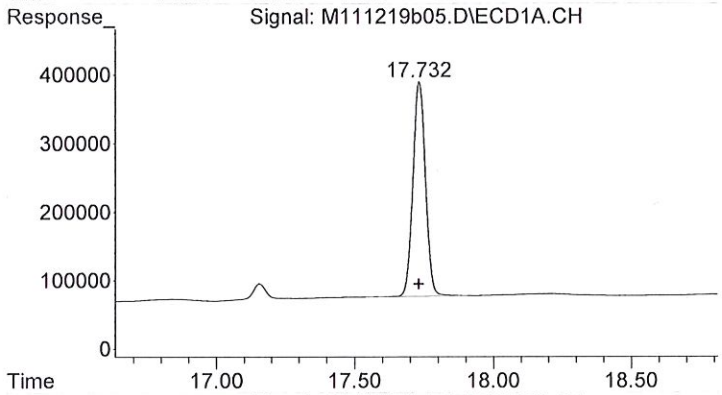
#11 1260-5

R.T.: 15.291 min
Delta R.T.: 0.002 min
Response: 179778
Conc: 268.04 pg/uL



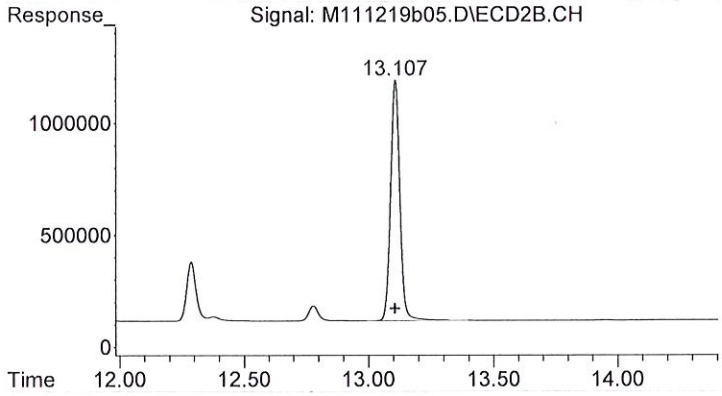
#11 1260-5

R.T.: 10.758 min
Delta R.T.: 0.000 min
Response: 1307358
Conc: 271.04 pg/uL



#12 dcb

R.T.: 17.733 min
Delta R.T.: 0.000 min
Response: 312181
Conc: 26.68 pg/uL



#12 dcb

R.T.: 13.107 min
Delta R.T.: 0.000 min
Response: 1072345
Conc: 26.19 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 2:08 pm
Operator : DWOOD
Sample : 87PCB032819O
Misc : PCB 1016/1260 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 31 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:32 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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)	6.958	4.714	1429815	4446509	50.441	49.912
12)	S2 dcb	17.731	13.106	568213	1995819	48.961	48.949
	Target Compounds						
2)	L1 1016 -1	7.569	5.256	204845	716756	497.456	498.616
3)	L1 1016-2	8.630	5.713	269809	1198341	488.395	477.868
4)	L1 1016-3	9.282	6.316	349832	1703715	488.139	490.975
5)	L1 1016-4	9.424	6.486	223641	966143	480.834	499.031
6)	L1 1016-5	9.697	6.568	232852	692492	489.441	489.874
	Sum 1016 -1			1280979	5277447	2444.266	2456.364
	Average 1016 -1					488.853	491.273
7)	L2 1260-1	12.460	8.795	456788	1496602	482.791	496.053
8)	L2 1260-2	12.897	9.227	525795	2261529	473.477	502.543
9)	L2 1260-3	13.444	9.664	588943	1880630	486.899	502.844
10)	L2 1260-4	14.706	10.243	694706	1109795	479.862	493.003
11)	L2 1260-5	15.289	10.757	308248	2419707	460.675	501.768
	Sum 1260-1			2574479	9168263	2383.703	2496.212
	Average 1260-1					476.741	499.242

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

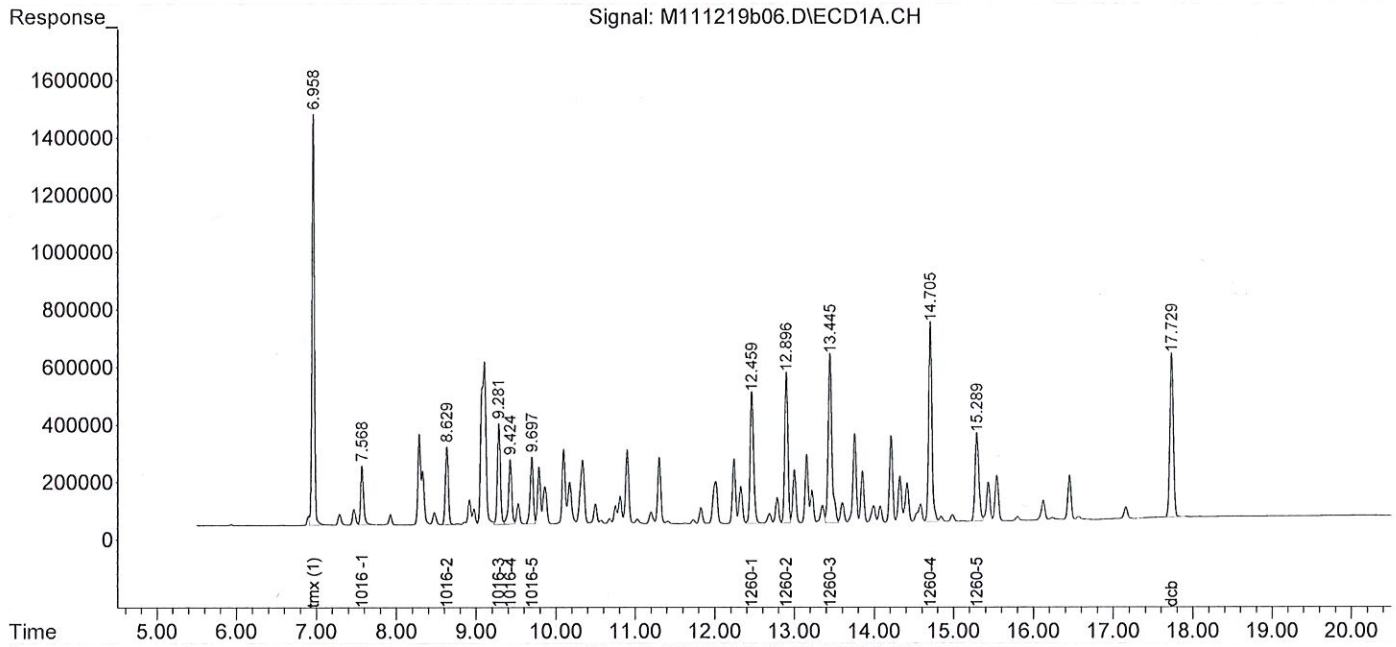
MW
11/13/19

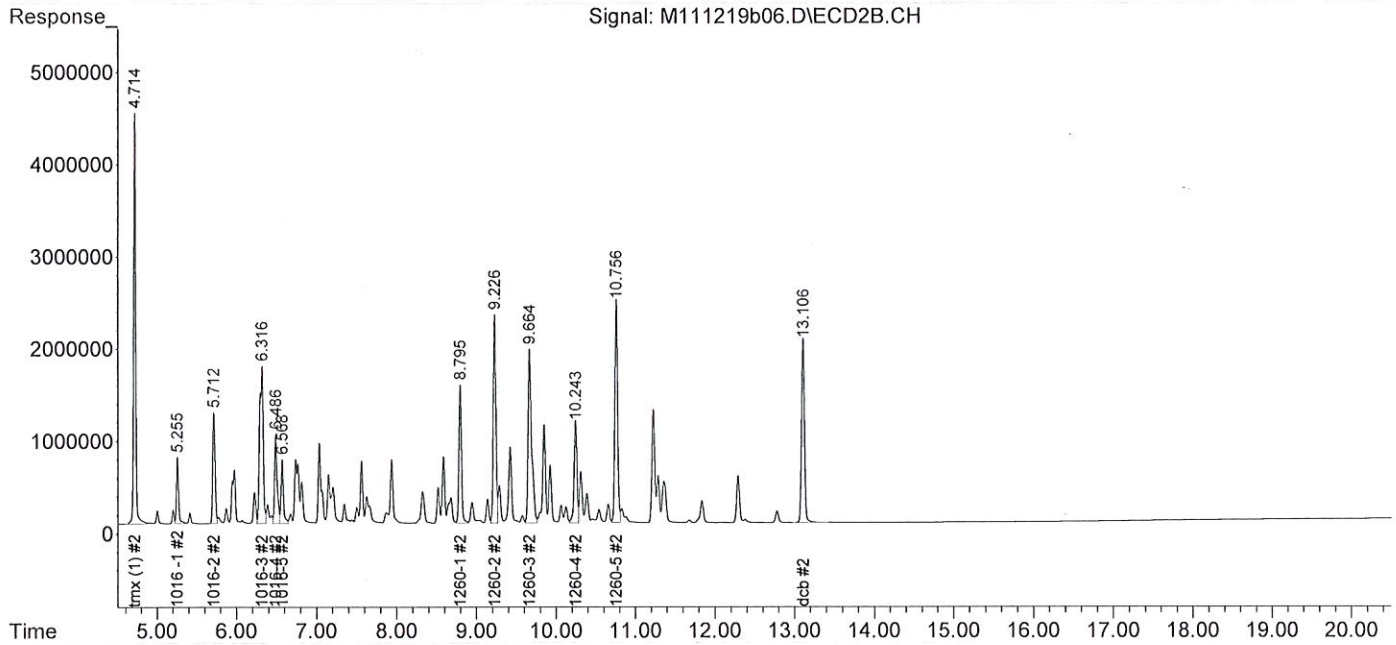
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 2:08 pm
Operator : DWOOD
Sample : 87PCB0328190
Misc : PCB 1016/1260 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 31 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:32 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 2:08 pm
Operator : DWOOD
Sample : 87PCB0328190
Misc : PCB 1016/1260 ICAL 500 pg/uL
ALS Vial : 0 (Sig #1); 31 (Sig #2) Sample Multiplier: 1

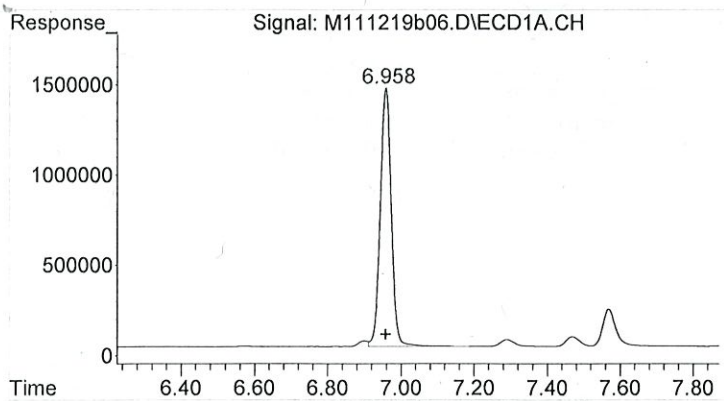
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 12 15:42:12 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
Response via : Initial Calibration
Integrator: ChemStation 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)	6.958	4.714	1429815	4446509	51.910	50.758	
12)	S2 dcb	17.731	13.106	568213	1995819	37.304	46.134	
	Target Compounds							
2)	L1 1016 -1	7.569	5.256	204845	716756	509.187	514.344	
3)	L1 1016-2	8.630	5.713	269809	1198341	486.235	491.679	
4)	L1 1016-3	9.282	6.316	349832	1703715	493.182	513.215	
5)	L1 1016-4	9.424	6.486	223641	966143	496.070	520.175	
6)	L1 1016-5	9.697	6.568	232852	692492	491.198	523.810	
	Sum 1016 -1			1280979	5277447	2475.871	2563.222	
	Average 1016 -1					495.174	512.644	
7)	L2 1260-1	12.460	8.795	456788	1496602	404.409	494.028	
8)	L2 1260-2	12.897	9.227	525795	2261529	385.012	505.096	#
9)	L2 1260-3	13.444	9.664	588943	1880630	390.205	510.792	#
10)	L2 1260-4	14.706	10.243	694706	1109795	359.002	488.420	#
11)	L2 1260-5	15.289f	10.757	308248	2419707	342.871	507.384	#
	Sum 1260-1			2574479	9168263	1881.500	2505.720	
	Average 1260-1					376.300	501.144	

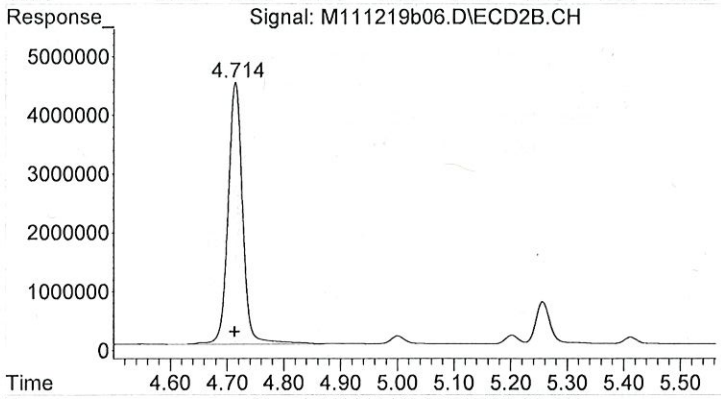
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

mw
11/12/19



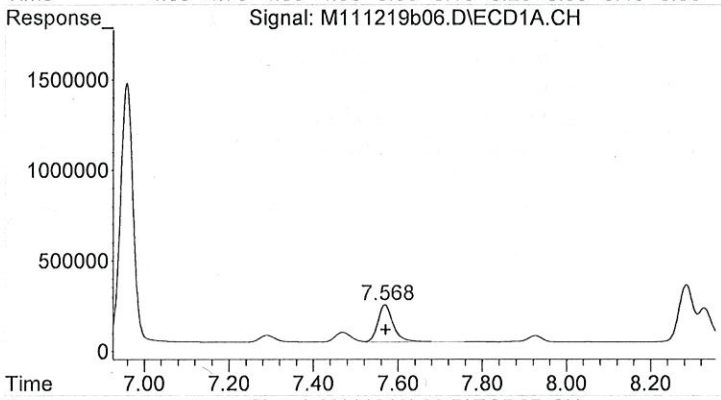
#1 tmx (1)

R.T.: 6.958 min
Delta R.T.: 0.000 min
Response: 1429815
Conc: 50.44 pg/uL



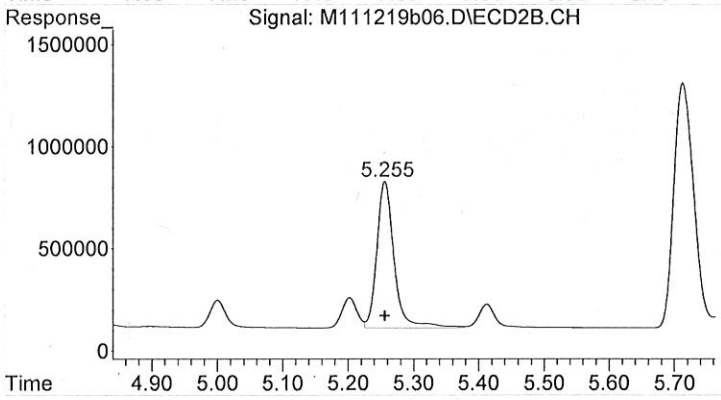
#1 tmx (1)

R.T.: 4.714 min
Delta R.T.: 0.001 min
Response: 4446509
Conc: 49.91 pg/uL



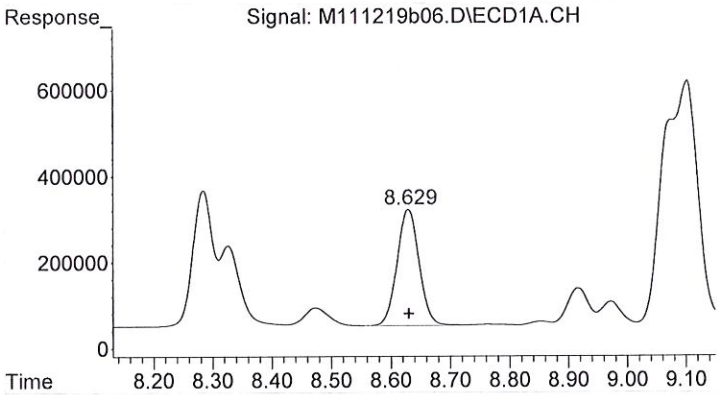
#2 1016 -1

R.T.: 7.569 min
Delta R.T.: -0.002 min
Response: 204845
Conc: 497.46 pg/uL



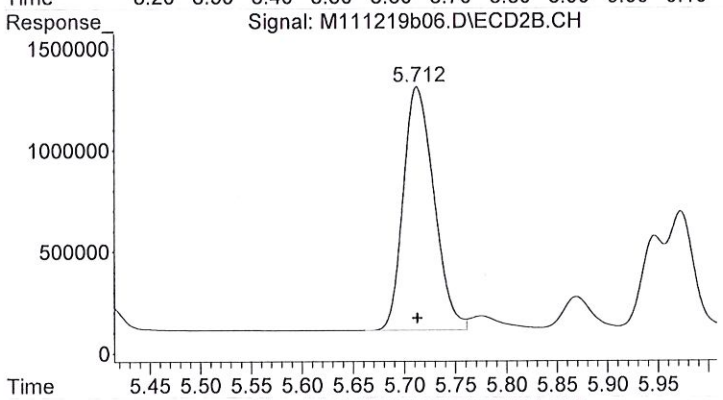
#2 1016 -1

R.T.: 5.256 min
Delta R.T.: 0.000 min
Response: 716756
Conc: 498.62 pg/uL



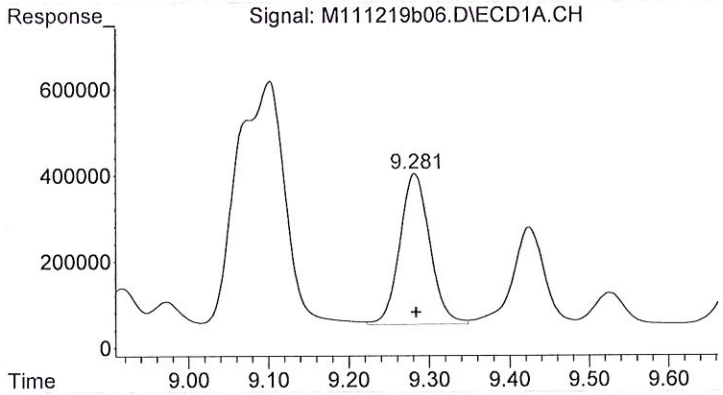
#3 1016-2

R.T.: 8.630 min
Delta R.T.: -0.001 min
Response: 269809
Conc: 488.40 pg/uL



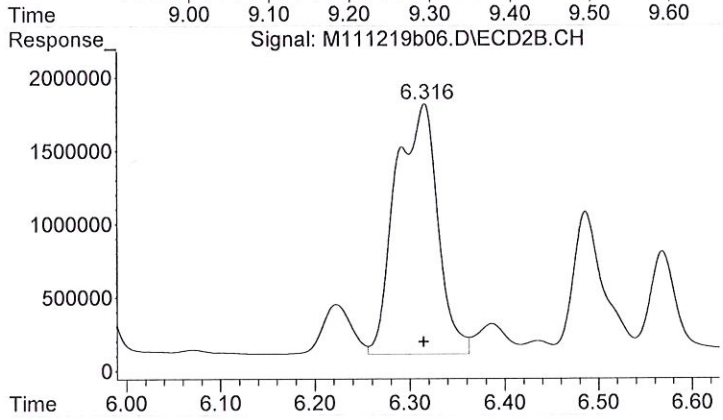
#3 1016-2

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 1198341
Conc: 477.87 pg/uL



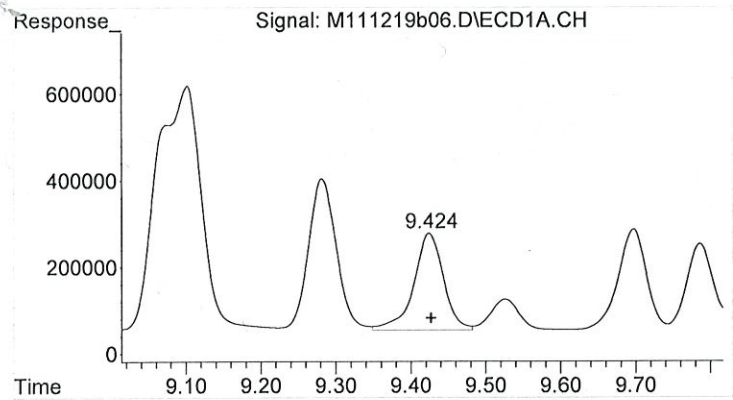
#4 1016-3

R.T.: 9.282 min
Delta R.T.: -0.002 min
Response: 349832
Conc: 488.14 pg/uL



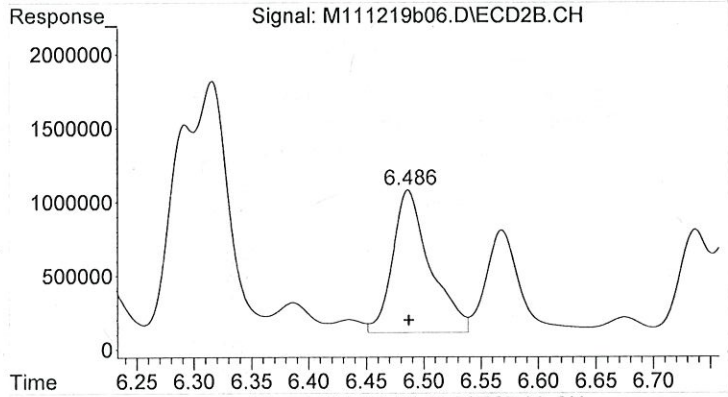
#4 1016-3

R.T.: 6.316 min
Delta R.T.: 0.000 min
Response: 1703715
Conc: 490.98 pg/uL



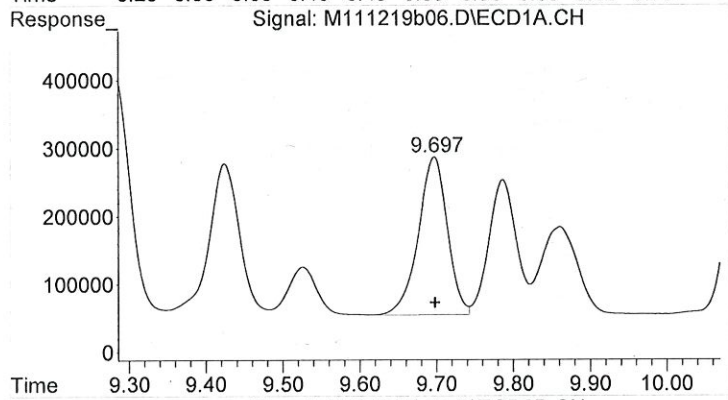
#5 1016-4

R.T.: 9.424 min
Delta R.T.: -0.003 min
Response: 223641
Conc: 480.83 pg/uL



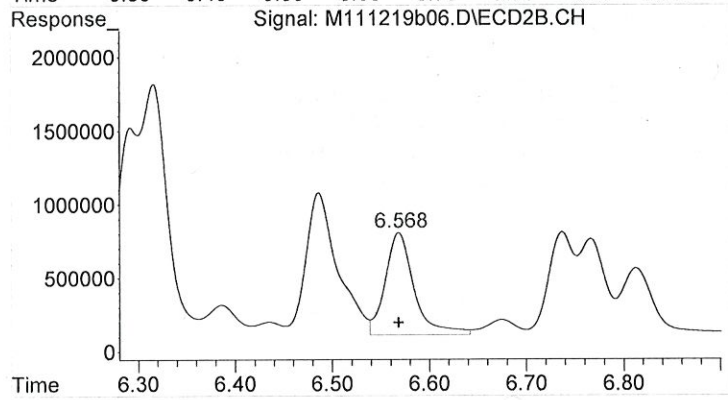
#5 1016-4

R.T.: 6.486 min
Delta R.T.: 0.000 min
Response: 966143
Conc: 499.03 pg/uL



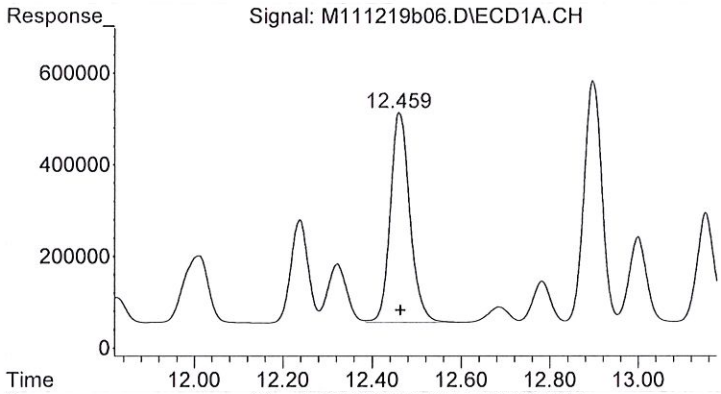
#6 1016-5

R.T.: 9.697 min
Delta R.T.: 0.000 min
Response: 232852
Conc: 489.44 pg/uL



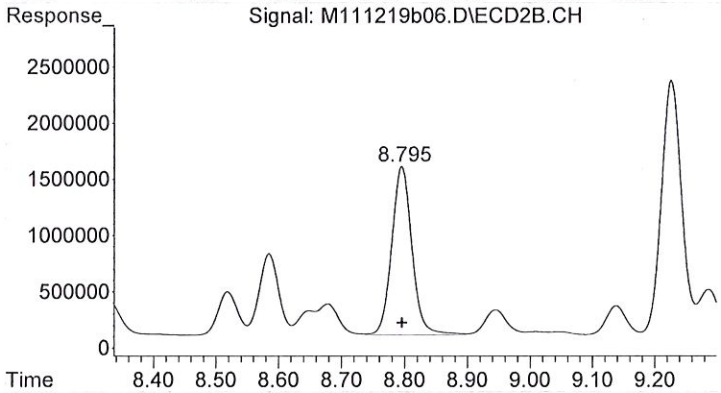
#6 1016-5

R.T.: 6.568 min
Delta R.T.: 0.000 min
Response: 692492
Conc: 489.87 pg/uL



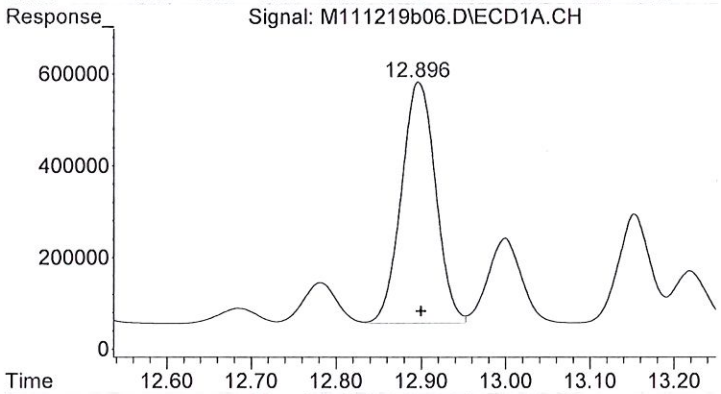
#7 1260-1

R.T.: 12.460 min
Delta R.T.: -0.004 min
Response: 456788
Conc: 482.79 pg/uL



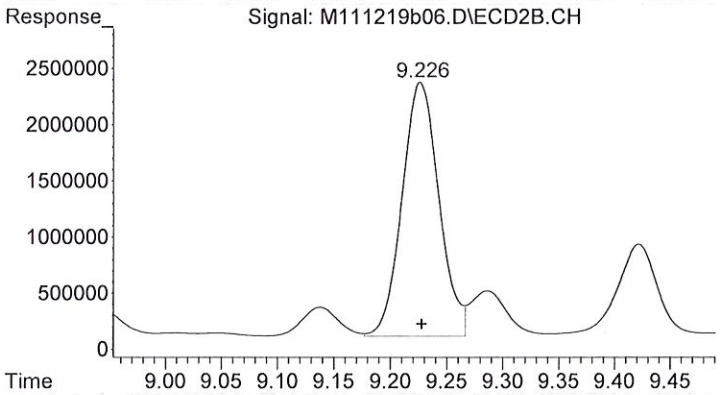
#7 1260-1

R.T.: 8.795 min
Delta R.T.: 0.000 min
Response: 1496602
Conc: 496.05 pg/uL



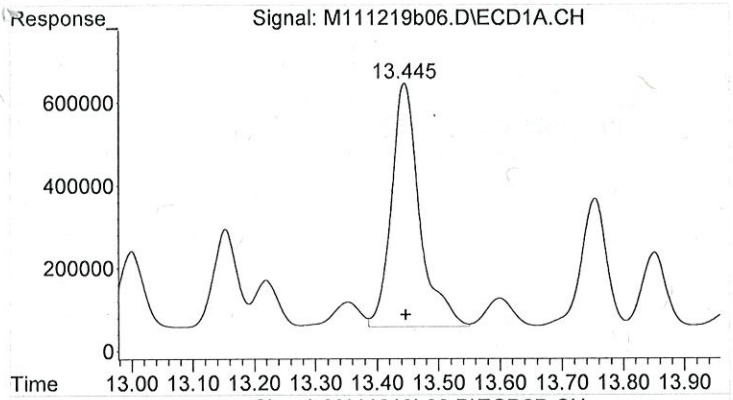
#8 1260-2

R.T.: 12.897 min
Delta R.T.: -0.003 min
Response: 525795
Conc: 473.48 pg/uL



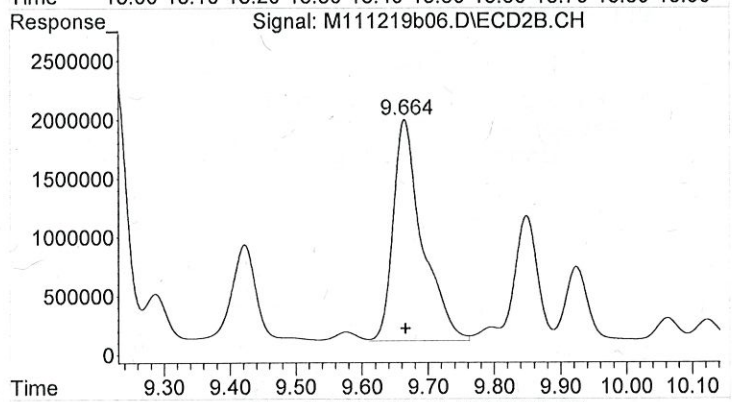
#8 1260-2

R.T.: 9.227 min
Delta R.T.: -0.001 min
Response: 2261529
Conc: 502.54 pg/uL



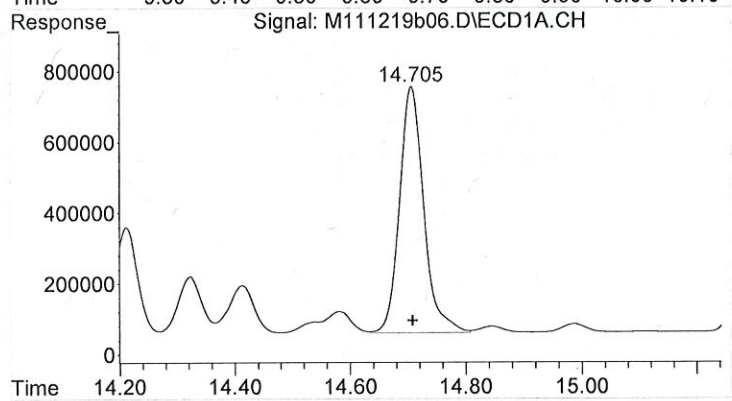
#9 1260-3

R.T.: 13.444 min
Delta R.T.: -0.003 min
Response: 588943
Conc: 486.90 pg/uL



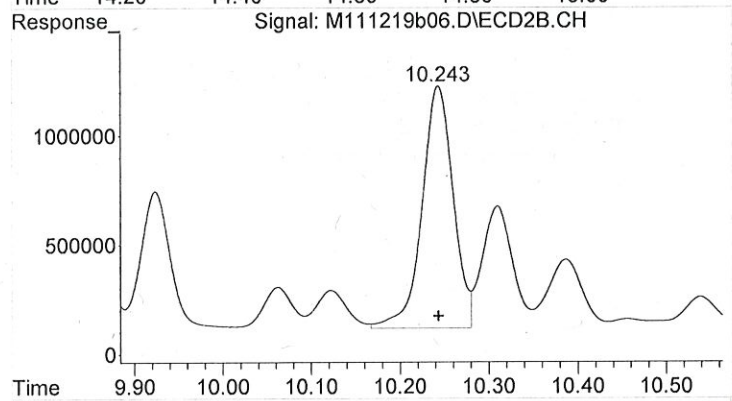
#9 1260-3

R.T.: 9.664 min
Delta R.T.: -0.002 min
Response: 1880630
Conc: 502.84 pg/uL



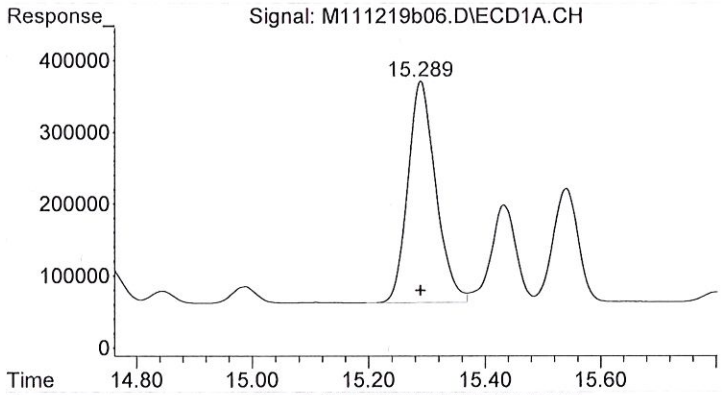
#10 1260-4

R.T.: 14.706 min
Delta R.T.: -0.002 min
Response: 694706
Conc: 479.86 pg/uL



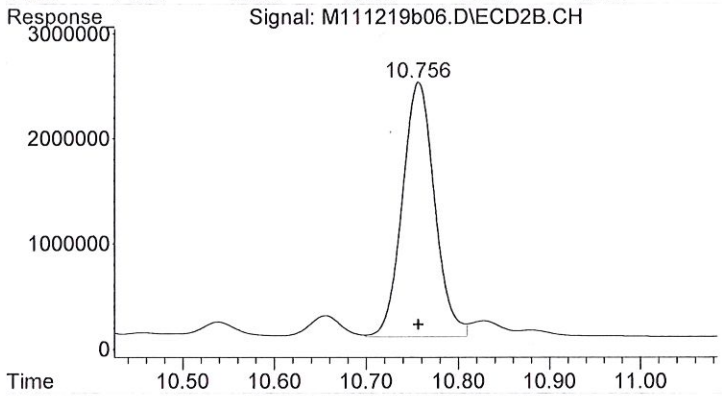
#10 1260-4

R.T.: 10.243 min
Delta R.T.: 0.000 min
Response: 1109795
Conc: 493.00 pg/uL



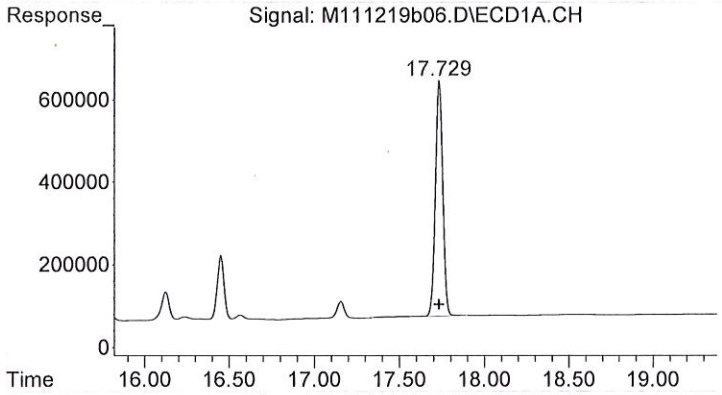
#11 1260-5

R.T.: 15.289 min
Delta R.T.: 0.000 min
Response: 308248
Conc: 460.67 pg/uL



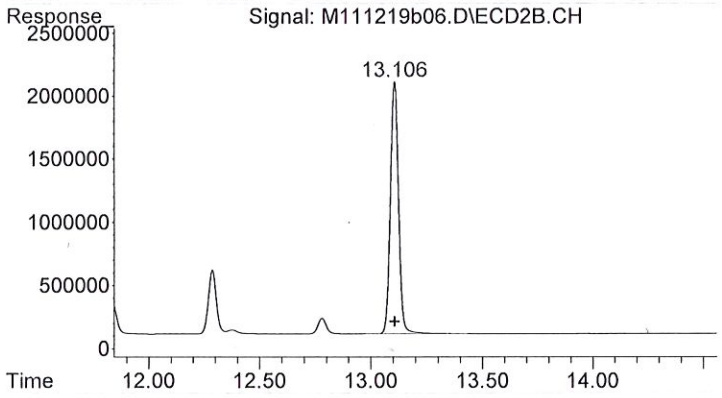
#11 1260-5

R.T.: 10.757 min
Delta R.T.: 0.000 min
Response: 2419707
Conc: 501.77 pg/uL



#12 dcb

R.T.: 17.731 min
Delta R.T.: -0.002 min
Response: 568213
Conc: 48.96 pg/uL



#12 dcb

R.T.: 13.106 min
Delta R.T.: -0.001 min
Response: 1995819
Conc: 48.95 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 2:32 pm
Operator : DWOOD
Sample : 87PCB032819P
Misc : PCB 1016/1260 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 32 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:38 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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)	6.956	4.713	2760064	8856811	97.680	99.750
12)	S2 dcb	17.731	13.105	1116028	4229832	96.629	104.012
	Target Compounds						
2)	L1 1016 -1	7.567	5.255	401970	1379336	986.252	968.440
3)	L1 1016-2	8.629	5.712	528799	2281210	968.550	917.369
4)	L1 1016-3	9.281	6.314	680529	3463713	956.431	1003.038
5)	L1 1016-4	9.423	6.486	445805	1890746	962.246	982.901
6)	L1 1016-5	9.694	6.567	439859	1425260	932.292	1013.429
	Sum 1016 -1			2496963	10440266	4805.771	4885.176
	Average 1016 -1					961.154	977.035
7)	L2 1260-1	12.462	8.794	913858	3004545	972.134	1003.373
8)	L2 1260-2	12.897	9.226	1100985	4492932	996.461	1004.153
9)	L2 1260-3	13.443	9.665	1214774	3842874	1007.010	1030.433
10)	L2 1260-4	14.706	10.243	1481706	2283943	1023.815	1019.153
11)	L2 1260-5	15.286	10.756	650631	4922403	974.055	1020.887
	Sum 1260-1			5361954	18546698	4973.475	5078.000
	Average 1260-1					994.695	1015.600

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

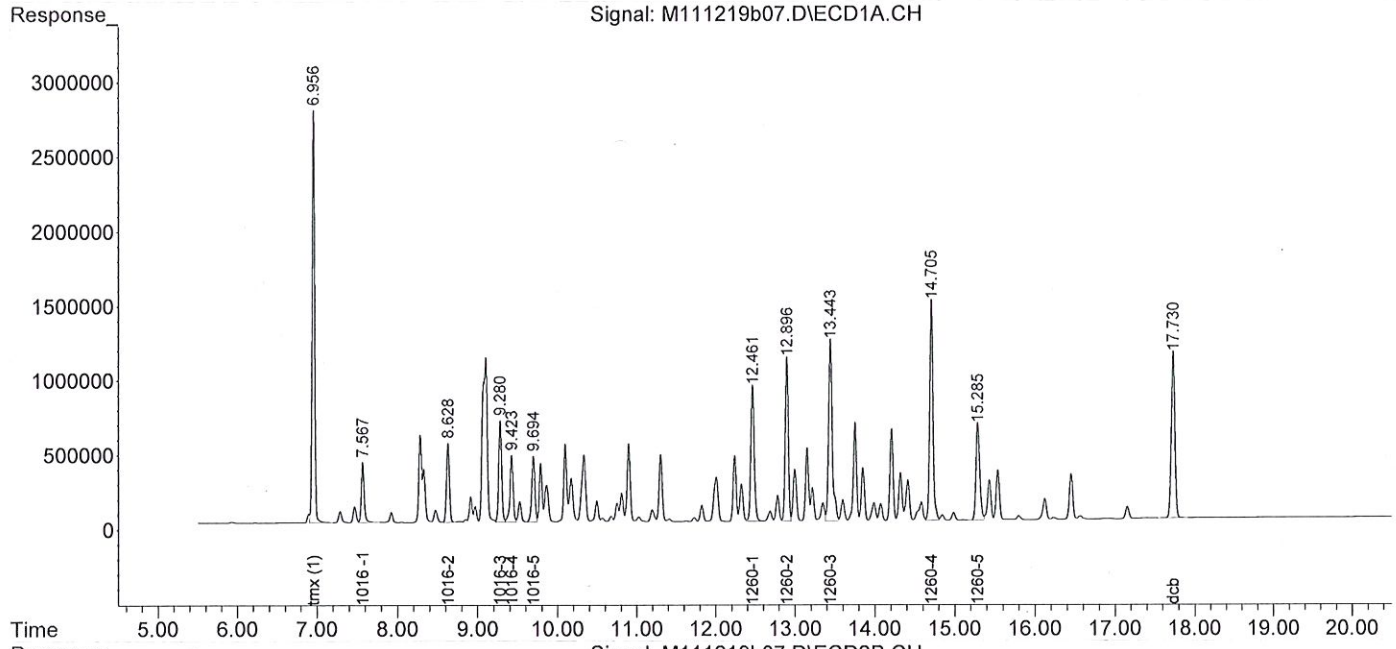
MW
11/13/19

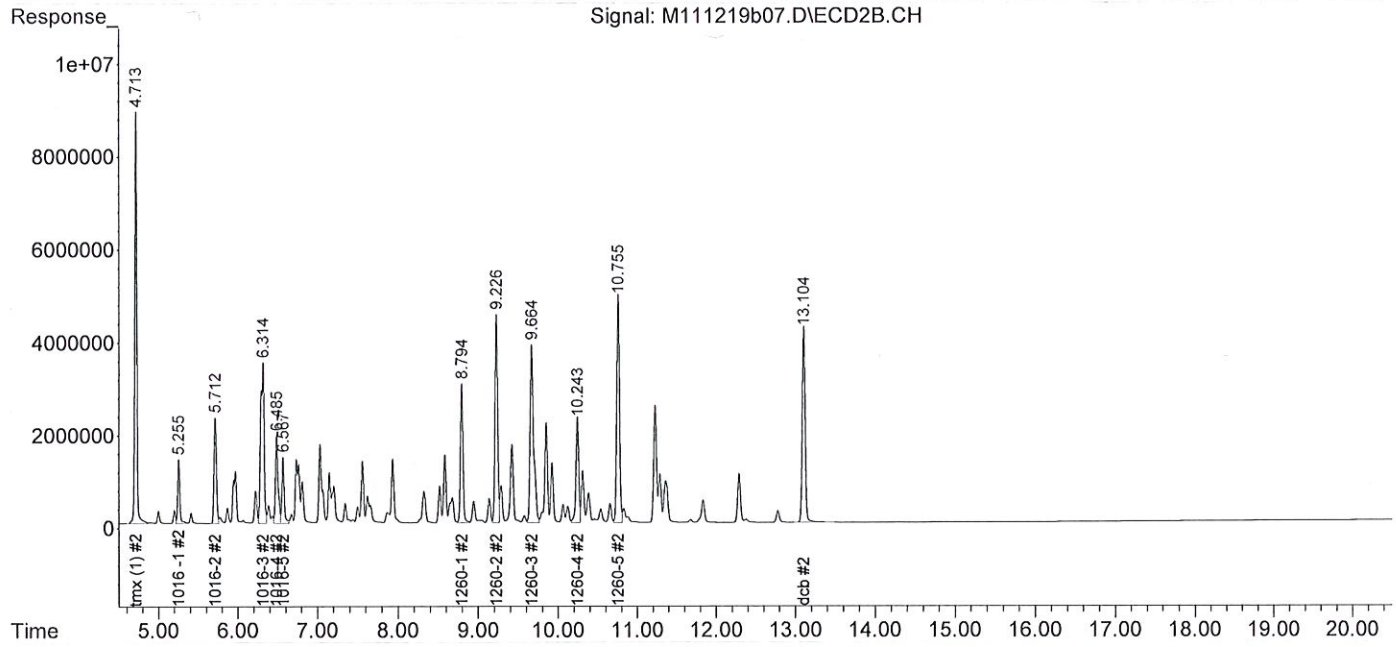
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 2:32 pm
Operator : DWOOD
Sample : 87PCB032819P
Misc : PCB 1016/1260 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 32 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:38 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b07.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 2:32 pm
Operator : DWOOD
Sample : 87PCB032819P
Misc : PCB 1016/1260 ICAL 1000 pg/uL
ALS Vial : 0 (Sig #1); 32 (Sig #2) Sample Multiplier: 1

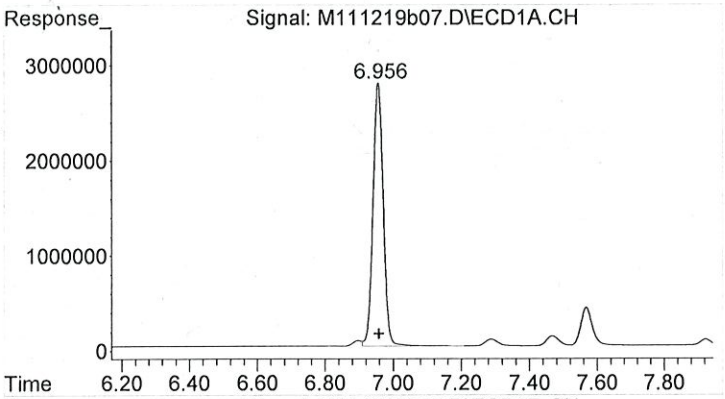
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 12 15:42:15 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
Response via : Initial Calibration
Integrator: ChemStation 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)	6.956	4.713	2760064	8856811	100.267	101.242	
12)	S2 dcb	17.731	13.105	1116028	4229832	74.215	98.350	#
	Target Compounds							
2)	L1 1016 -1	7.567	5.255	401970	1379336	1003.464	993.538	
3)	L1 1016-2	8.629	5.712	528799	2281210	961.917	942.172	
4)	L1 1016-3	9.281	6.314	680529	3463713	965.254	1043.610	
5)	L1 1016-4	9.423	6.486	445805	1890746	991.650	1019.910	
6)	L1 1016-5	9.694	6.567	439859	1425260	1049.152	1079.671	
	Sum 1016 -1			2496963	10440266	4971.437	5078.901	
	Average 1016 -1					994.287	1015.780	
7)	L2 1260-1	12.462	8.794	913858	3004545	819.008	997.544	
8)	L2 1260-2	12.897	9.226	1100985	4492932	815.729	1006.948	
9)	L2 1260-3	13.443	9.665	1214774	3842874	812.643	1043.751	#
10)	L2 1260-4	14.706	10.243	1481706	2283943	770.650	1009.147	#
11)	L2 1260-5	15.286f	10.756	650631	4922403	730.150	1032.171	#
	Sum 1260-1			5361954	18546698	3948.180	5089.561	
	Average 1260-1					789.636	1017.912	

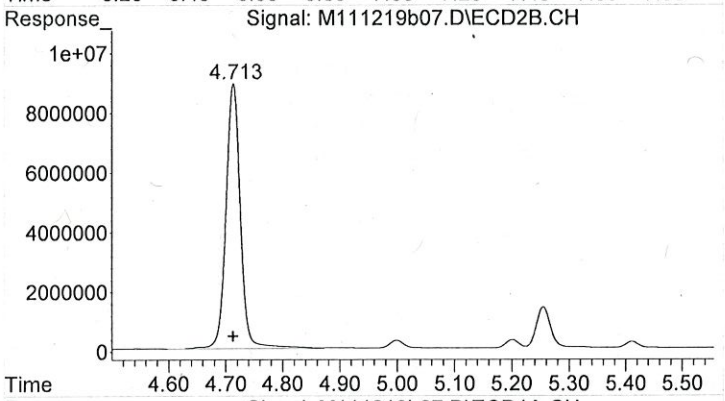
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
11/12/19



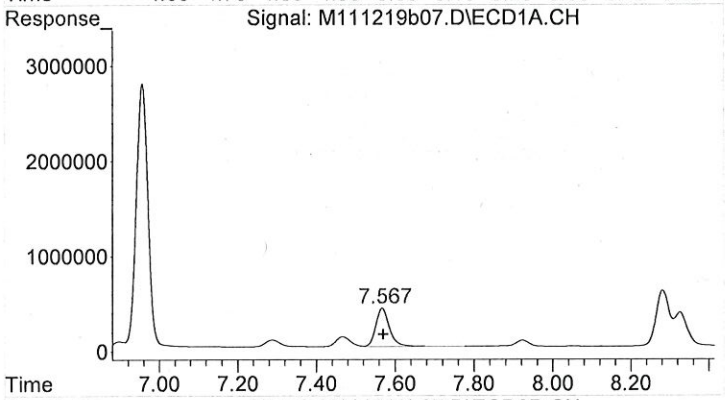
#1 tmx (1)

R.T.: 6.956 min
Delta R.T.: -0.003 min
Response: 2760064
Conc: 97.68 pg/uL



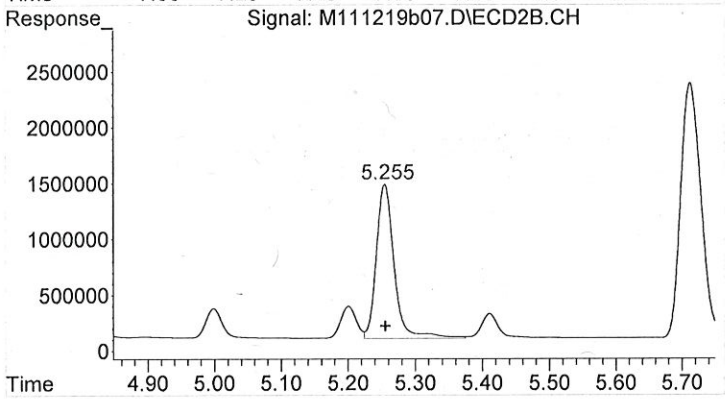
#1 tmx (1)

R.T.: 4.713 min
Delta R.T.: 0.000 min
Response: 8856811
Conc: 99.75 pg/uL



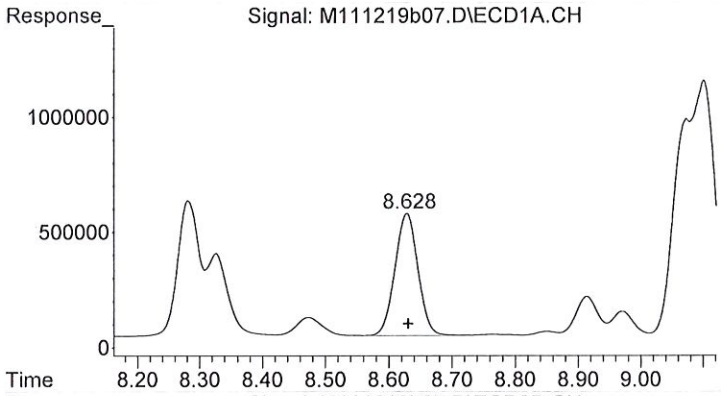
#2 1016 -1

R.T.: 7.567 min
Delta R.T.: -0.004 min
Response: 401970
Conc: 986.25 pg/uL



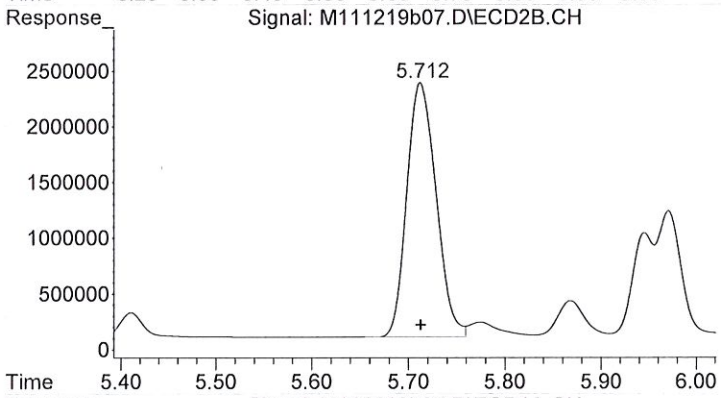
#2 1016 -1

R.T.: 5.255 min
Delta R.T.: -0.001 min
Response: 1379336
Conc: 968.44 pg/uL



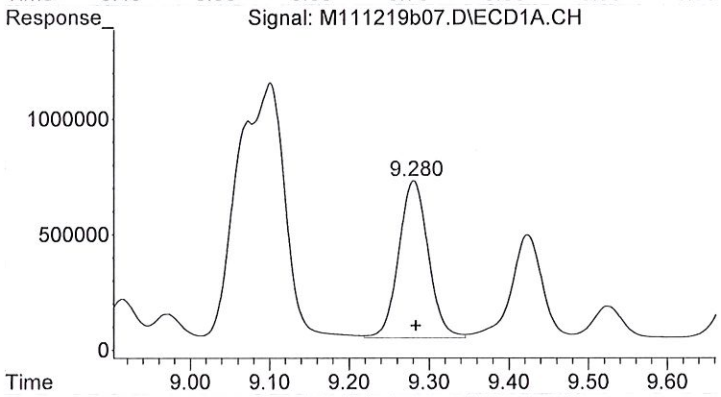
#3 1016-2

R.T.: 8.629 min
Delta R.T.: -0.002 min
Response: 528799
Conc: 968.55 pg/uL



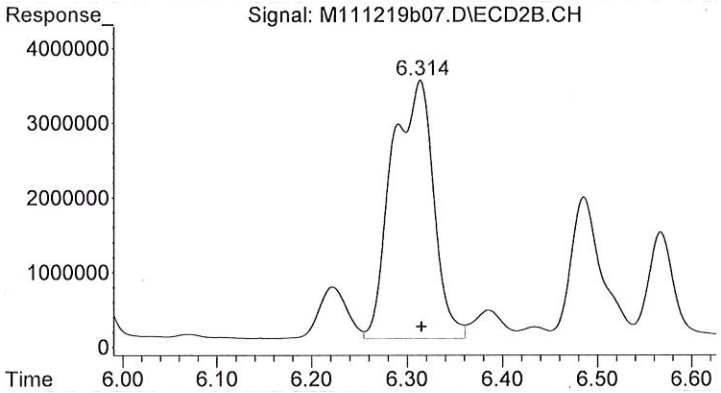
#3 1016-2

R.T.: 5.712 min
Delta R.T.: 0.000 min
Response: 2281210
Conc: 917.37 pg/uL



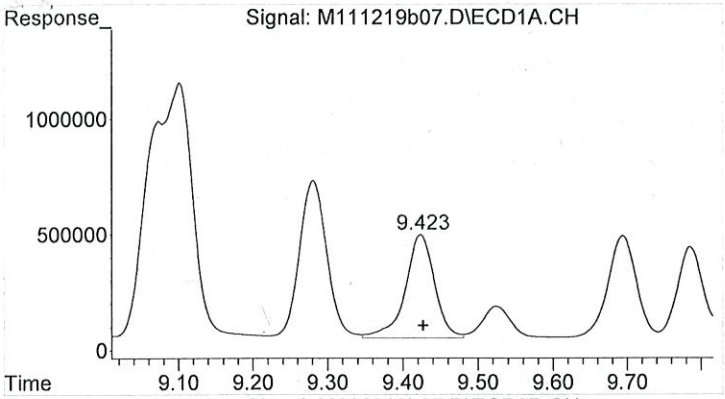
#4 1016-3

R.T.: 9.281 min
Delta R.T.: -0.003 min
Response: 680529
Conc: 956.43 pg/uL



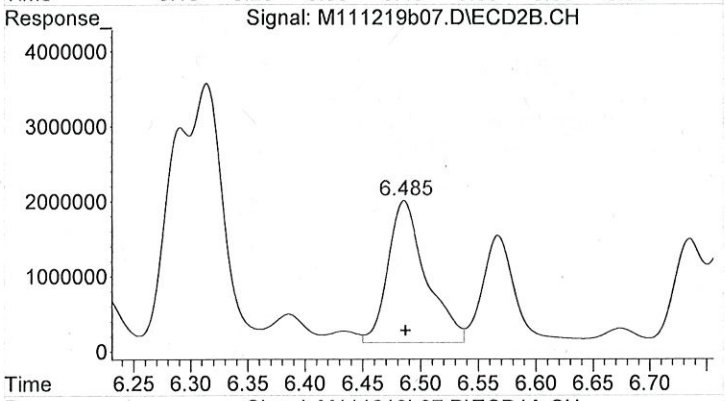
#4 1016-3

R.T.: 6.314 min
Delta R.T.: -0.001 min
Response: 3463713
Conc: 1003.04 pg/uL



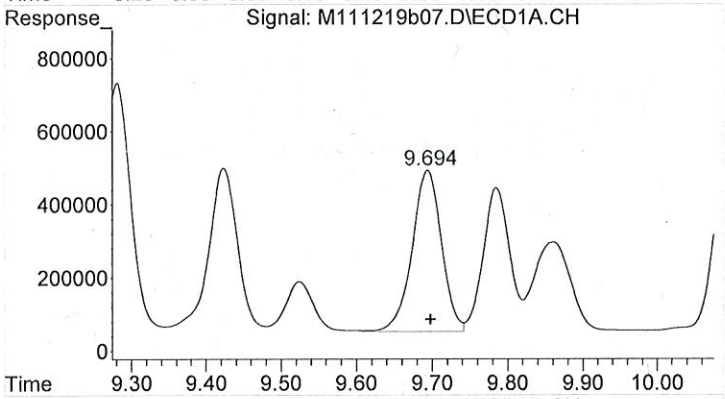
#5 1016-4

R.T.: 9.423 min
Delta R.T.: -0.004 min
Response: 445805
Conc: 962.25 pg/uL



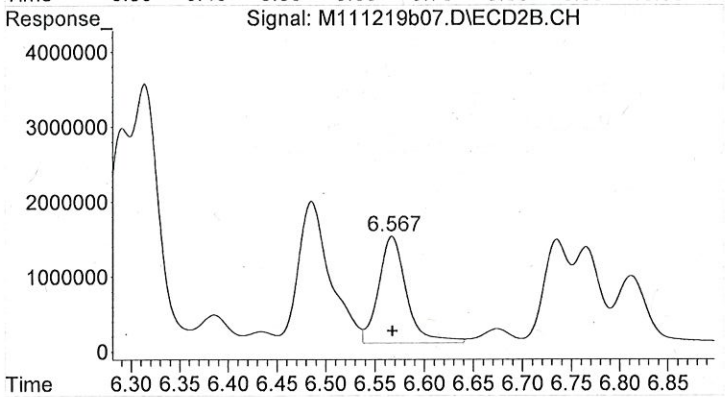
#5 1016-4

R.T.: 6.486 min
Delta R.T.: -0.001 min
Response: 1890746
Conc: 982.90 pg/uL



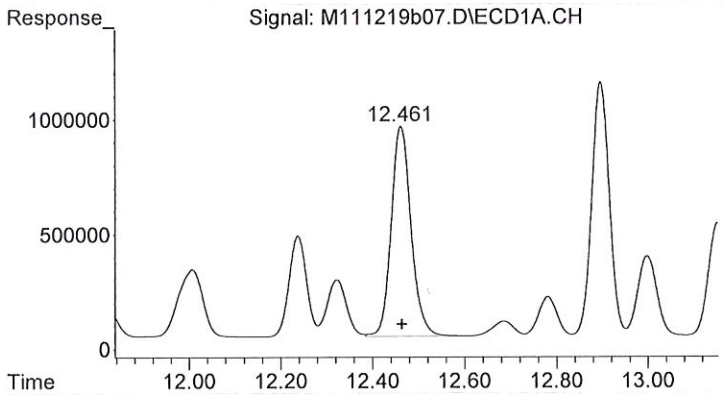
#6 1016-5

R.T.: 9.694 min
Delta R.T.: -0.004 min
Response: 439859
Conc: 932.29 pg/uL



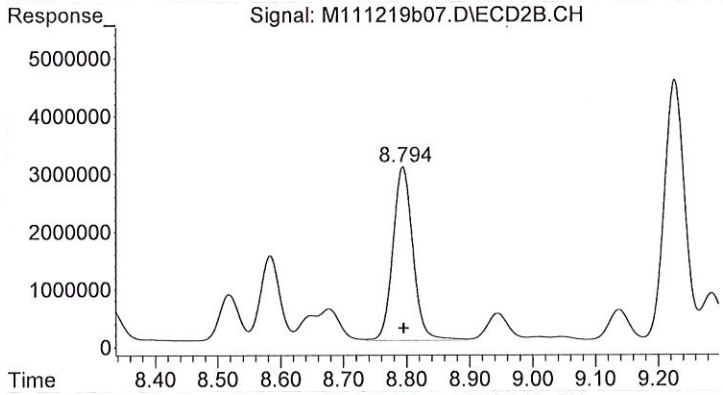
#6 1016-5

R.T.: 6.567 min
Delta R.T.: 0.000 min
Response: 1425260
Conc: 1013.43 pg/uL



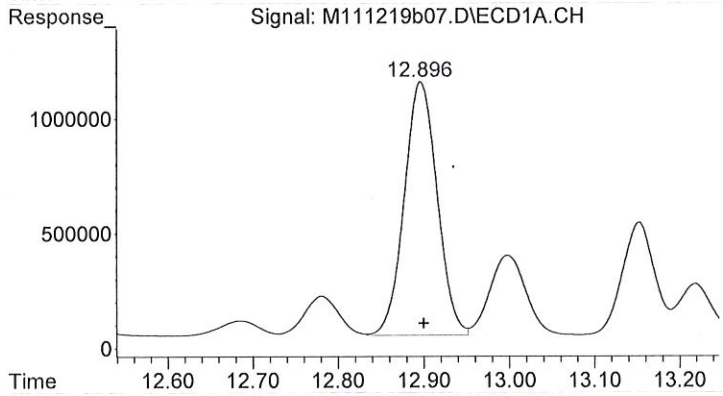
#7 1260-1

R.T.: 12.462 min
Delta R.T.: -0.002 min
Response: 913858
Conc: 972.13 pg/uL



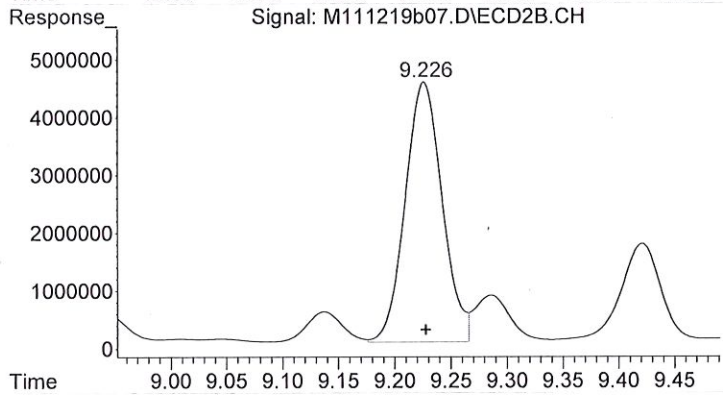
#7 1260-1

R.T.: 8.794 min
Delta R.T.: -0.002 min
Response: 3004545
Conc: 1003.37 pg/uL



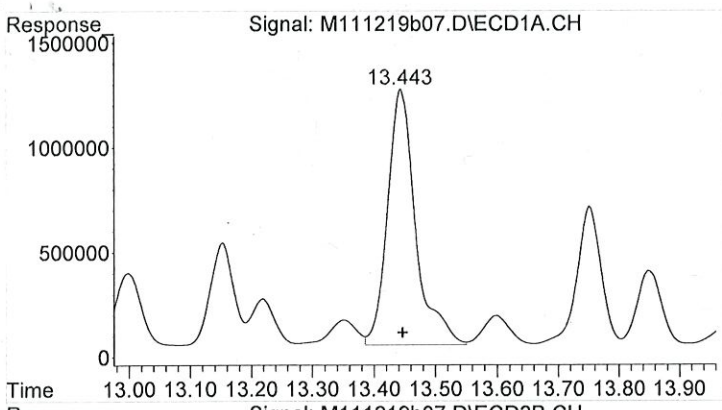
#8 1260-2

R.T.: 12.897 min
Delta R.T.: -0.004 min
Response: 1100985
Conc: 996.46 pg/uL



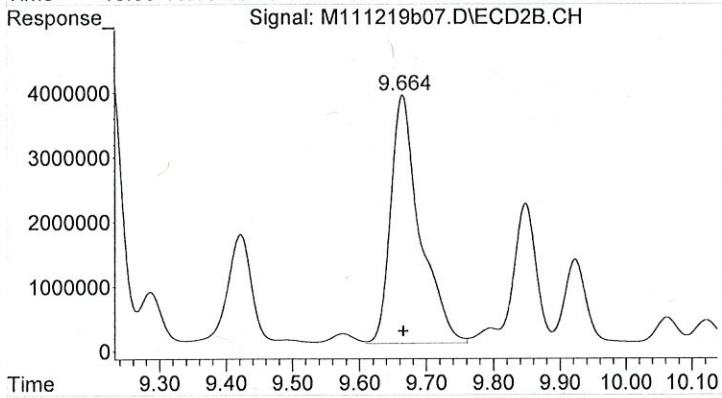
#8 1260-2

R.T.: 9.226 min
Delta R.T.: -0.002 min
Response: 4492932
Conc: 1004.15 pg/uL



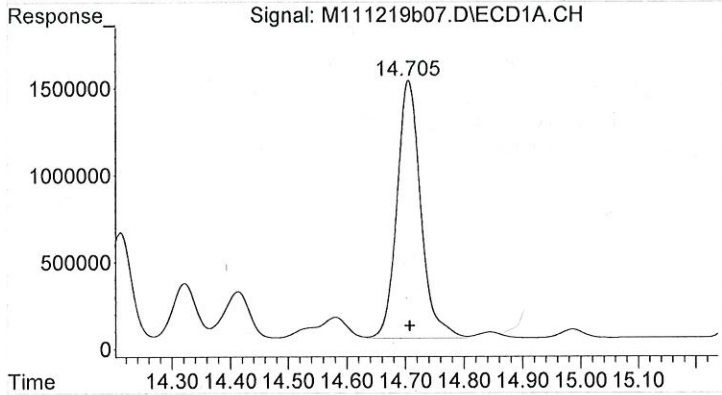
#9 1260-3

R.T.: 13.443 min
Delta R.T.: -0.004 min
Response: 1214774
Conc: 1007.01 pg/uL



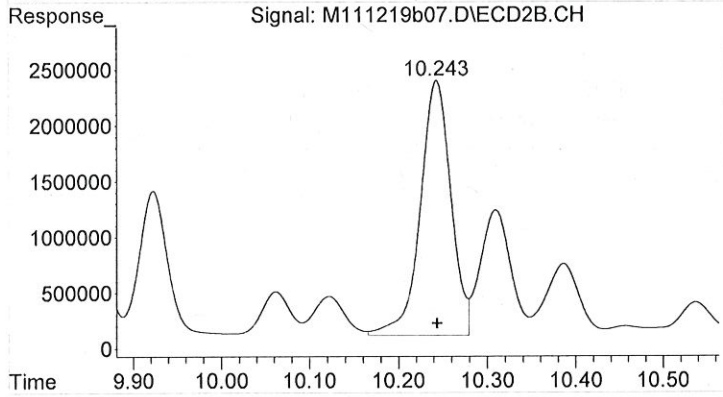
#9 1260-3

R.T.: 9.665 min
Delta R.T.: -0.001 min
Response: 3842874
Conc: 1030.43 pg/uL



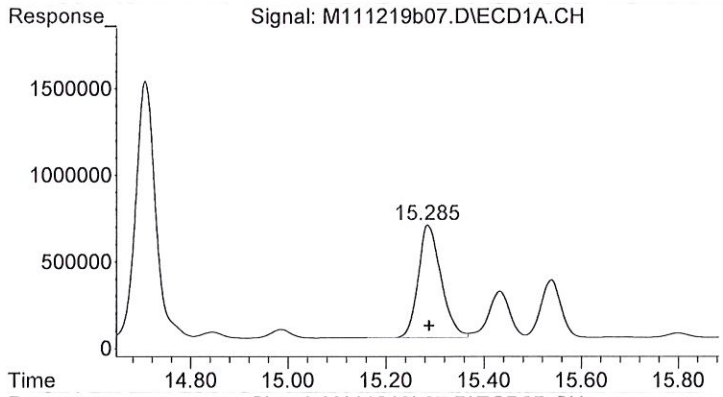
#10 1260-4

R.T.: 14.706 min
Delta R.T.: -0.002 min
Response: 1481706
Conc: 1023.81 pg/uL



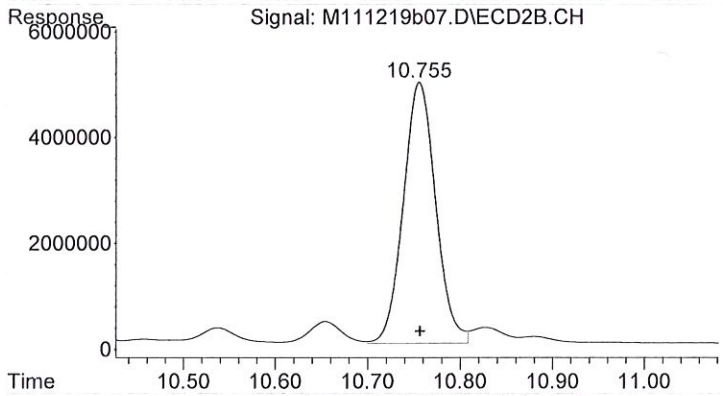
#10 1260-4

R.T.: 10.243 min
Delta R.T.: 0.000 min
Response: 2283943
Conc: 1019.15 pg/uL



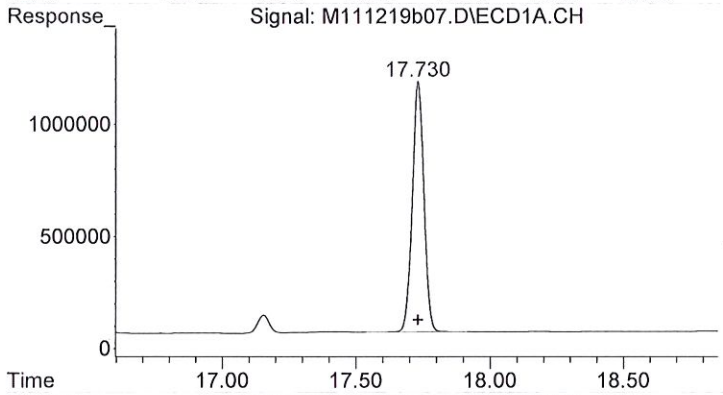
#11 1260-5

R.T.: 15.286 min
Delta R.T.: -0.003 min
Response: 650631
Conc: 974.06 pg/uL



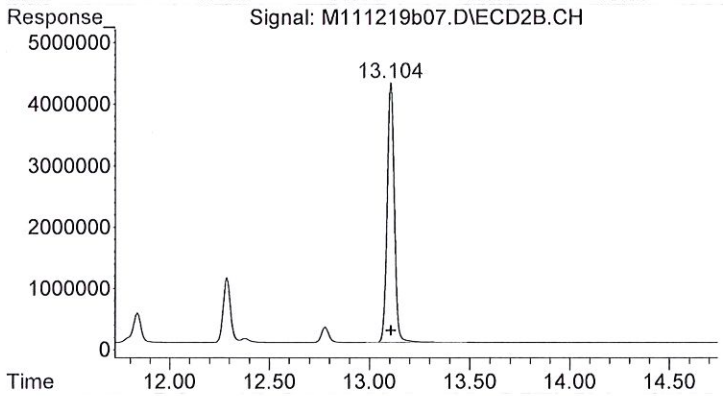
#11 1260-5

R.T.: 10.756 min
Delta R.T.: -0.001 min
Response: 4922403
Conc: 1020.89 pg/uL



#12 dcb

R.T.: 17.731 min
Delta R.T.: -0.002 min
Response: 1116028
Conc: 96.63 pg/uL



#12 dcb

R.T.: 13.105 min
Delta R.T.: -0.002 min
Response: 4229832
Conc: 104.01 pg/uL

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 2:57 pm
Operator : DWOOD
Sample : 87PCB032819Q
Misc : PCB 1016/1260 ICAL 2500 pg/uL
ALS Vial : 0 (Sig #1); 33 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:44 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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)	6.957	4.715	6698384	20201051	237.536	227.944
12)	S2 dcb	17.733	13.106	2982381	10415832	259.029	256.483
	Target Compounds						
2)	L1 1016 -1	7.568	5.255	927235	3095896	2288.708	2185.626
3)	L1 1016-2	8.629	5.713	1229493	4962936	2267.597	2005.791
4)	L1 1016-3	9.282	6.314	1616471	8119361	2281.798	2357.573
5)	L1 1016-4	9.425	6.486	1114049	4426589	2410.274	2309.977
6)	L1 1016-5	9.696	6.567	1080360	3321615	2302.521	2368.352
	Sum 1016 -1			5967608	23926398	11550.899	11227.318
	Average 1016 -1					2310.180	2245.464
7)	L2 1260-1	12.462	8.795	2296777	6816669	2452.695	2285.892
8)	L2 1260-2	12.898	9.227	2776045	10231012	2519.491	2294.049
9)	L2 1260-3	13.445	9.664	3035995	8929234	2520.578	2398.005
10)	L2 1260-4	14.706	10.244	3788113	5313948	2617.940	2376.935
11)	L2 1260-5	15.287	10.756	1769619	11620429	2651.899	2410.217
	Sum 1260-1			13666549	42911291	12762.602	11765.098
	Average 1260-1					2552.520	2353.020

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

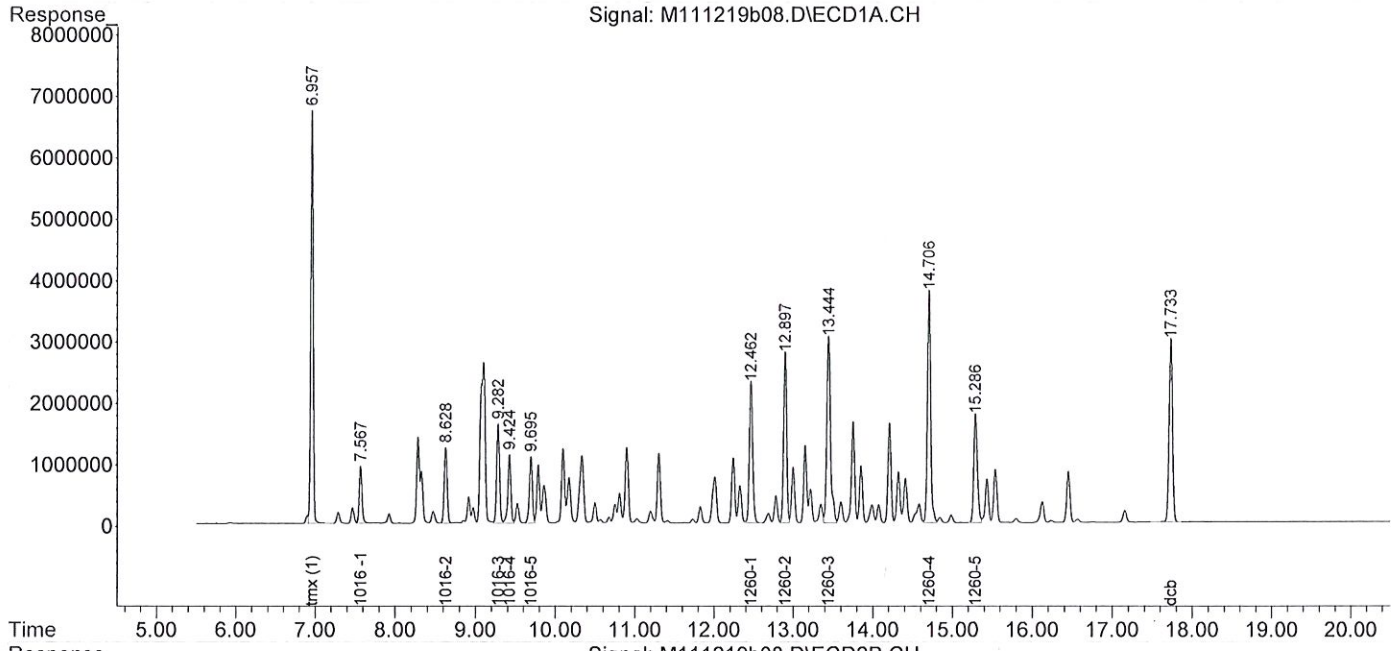
lw
11/13/19

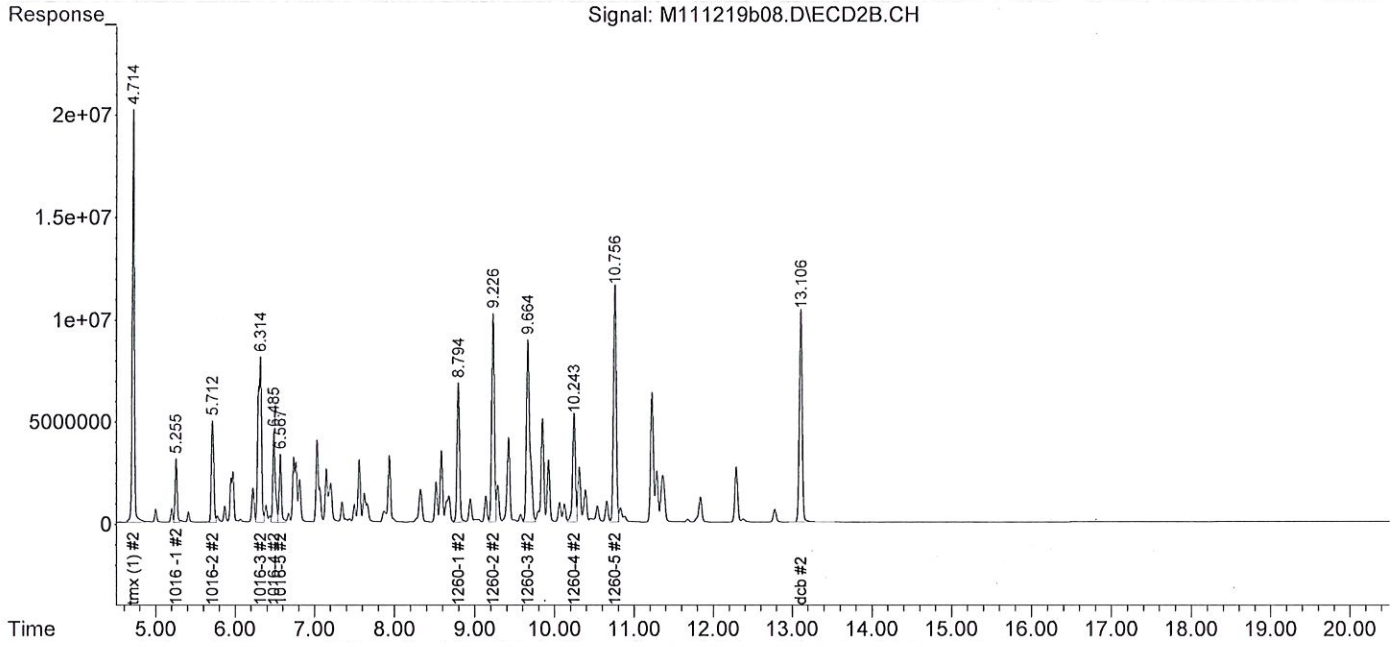
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 2:57 pm
Operator : DWOOD
Sample : 87PCB032819Q
Misc : PCB 1016/1260 ICAL 2500 pg/uL
ALS Vial : 0 (Sig #1); 33 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:48:44 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b08.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 2:57 pm
Operator : DWOOD
Sample : 87PCB032819Q
Misc : PCB 1016/1260 ICAL 2500 pg/uL
ALS Vial : 0 (Sig #1); 33 (Sig #2) Sample Multiplier: 1

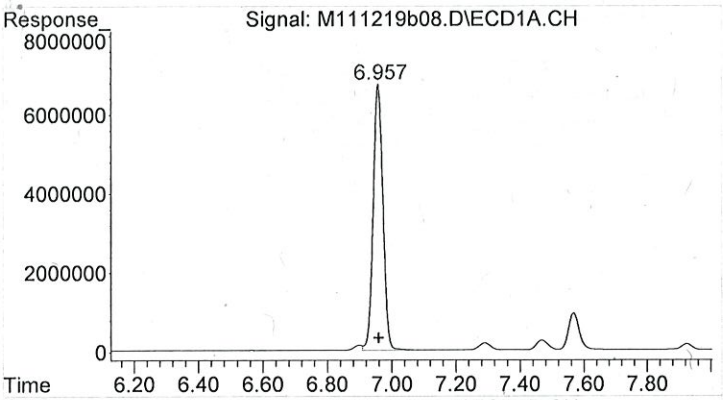
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 12 15:42:18 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Jun 04 16:18:53 2019
Response via : Initial Calibration
Integrator: ChemStation 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)	6.957	4.715	6698384	20201051	243.433	231.100
12) S2 dcb	17.733	13.106	2982381	10415832	199.964	242.937
Target Compounds						
2) L1 1016 -1	7.568	5.255	927235	3095896	2320.528	2234.996
3) L1 1016-2	8.629	5.713	1229493	4962936	2248.865	2057.821
4) L1 1016-3	9.282	6.314	1616471	8119361	2301.318	2446.642
5) L1 1016-4	9.425	6.486	1114049	4426589	2482.292	2390.499
6) L1 1016-5	9.696	6.567	1080360	3321615	BelowCal	2518.200 #
Sum 1016 -1			4887248	23926398	9352.004	11648.158
Average 1016 -1					2338.001	2329.632
7) L2 1260-1	12.462	8.795	2296777	6816669	2073.421	2270.449
8) L2 1260-2	12.898	9.227	2776045	10231012	2070.057	2297.466
9) L2 1260-3	13.445	9.664	3035995	8929234	2041.972	2425.241
10) L2 1260-4	14.706	10.244	3788113	5313948	1977.041	2352.933
11) L2 1260-5	15.287f	10.756	1769619	11620429	1995.865	2436.669
Sum 1260-1			13666549	42911291	10158.357	11782.757
Average 1260-1					2031.671	2356.551

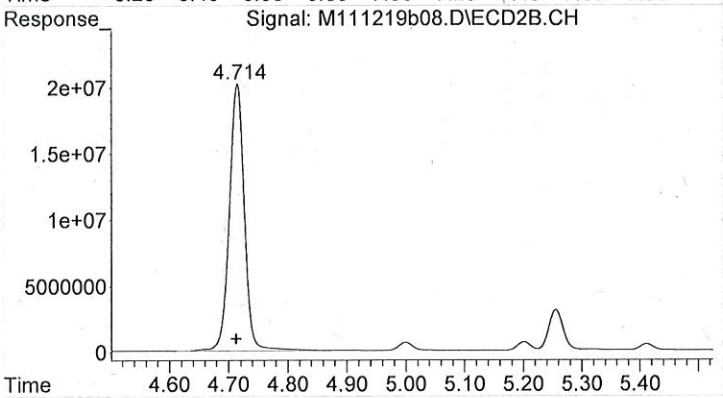
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

mw
11/12/19



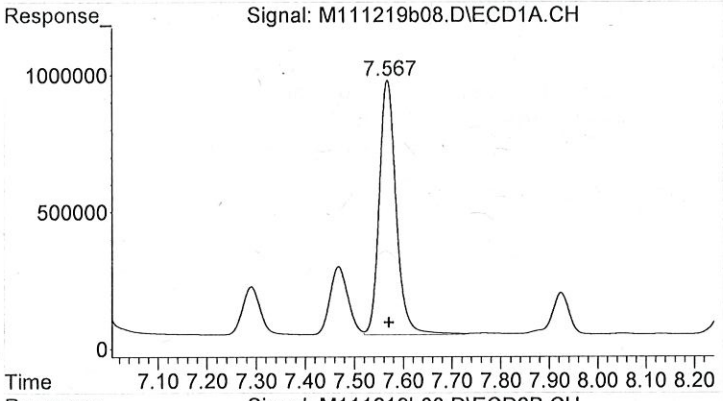
#1 tmx (1)

R.T.: 6.957 min
Delta R.T.: -0.002 min
Response: 6698384
Conc: 237.54 pg/uL



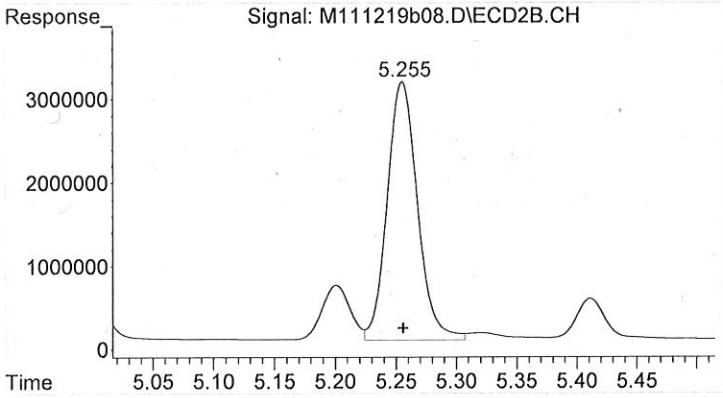
#1 tmx (1)

R.T.: 4.715 min
Delta R.T.: 0.002 min
Response: 20201051
Conc: 227.94 pg/uL



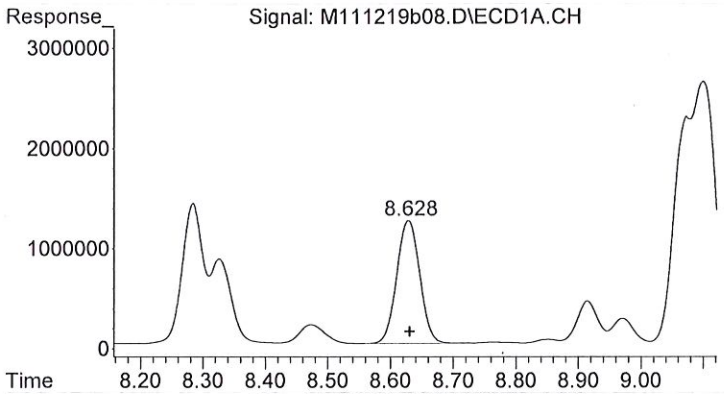
#2 1016 -1

R.T.: 7.568 min
Delta R.T.: -0.003 min
Response: 927235
Conc: 2288.71 pg/uL



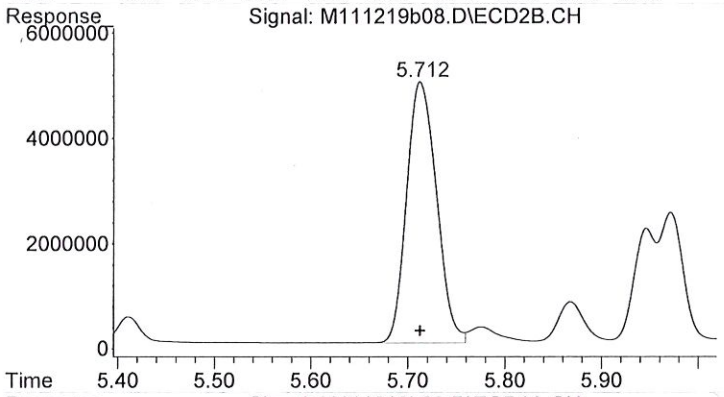
#2 1016 -1

R.T.: 5.255 min
Delta R.T.: 0.000 min
Response: 3095896
Conc: 2185.63 pg/uL



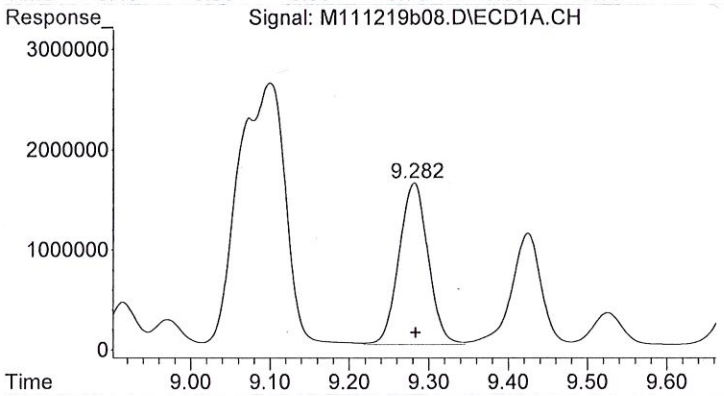
#3 1016-2

R.T.: 8.629 min
Delta R.T.: -0.002 min
Response: 1229493
Conc: 2267.60 pg/uL



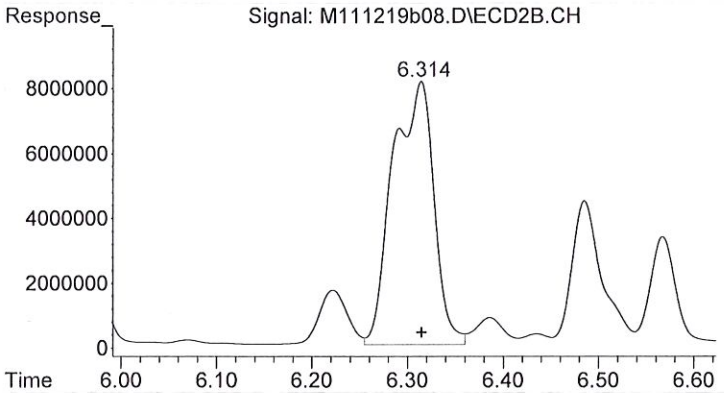
#3 1016-2

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 4962936
Conc: 2005.79 pg/uL



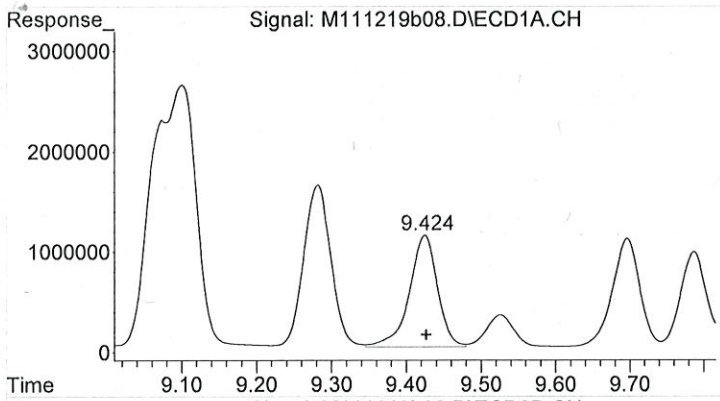
#4 1016-3

R.T.: 9.282 min
Delta R.T.: -0.002 min
Response: 1616471
Conc: 2281.80 pg/uL



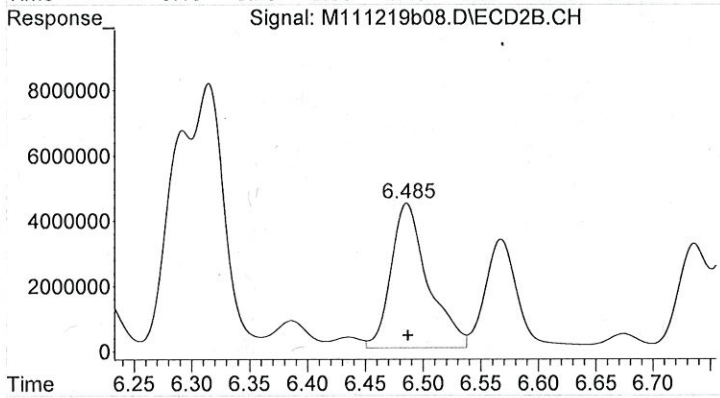
#4 1016-3

R.T.: 6.314 min
Delta R.T.: 0.000 min
Response: 8119361
Conc: 2357.57 pg/uL



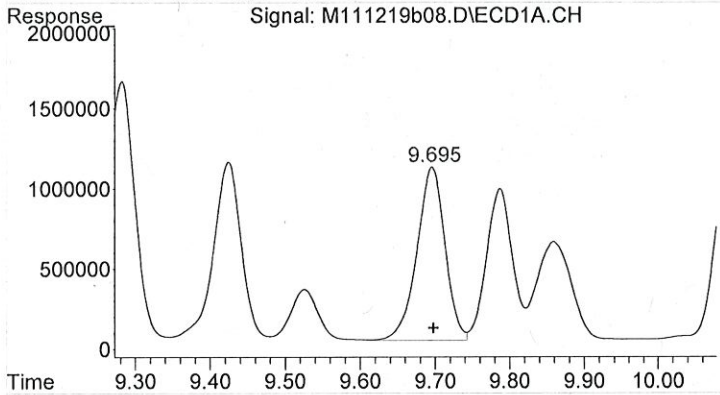
#5 1016-4

R.T.: 9.425 min
Delta R.T.: -0.002 min
Response: 1114049
Conc: 2410.27 pg/uL



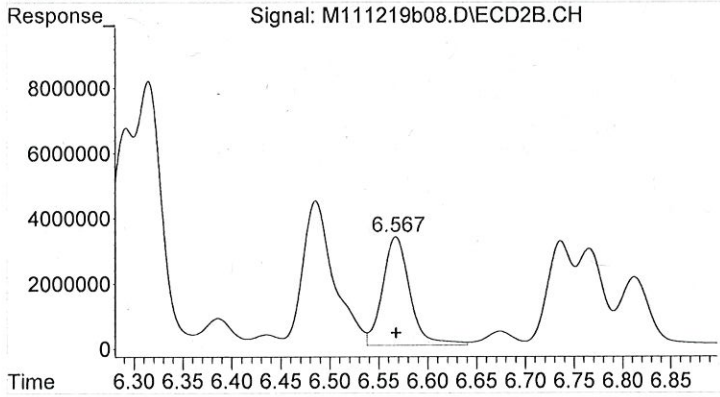
#5 1016-4

R.T.: 6.486 min
Delta R.T.: -0.001 min
Response: 4426589
Conc: 2309.98 pg/uL



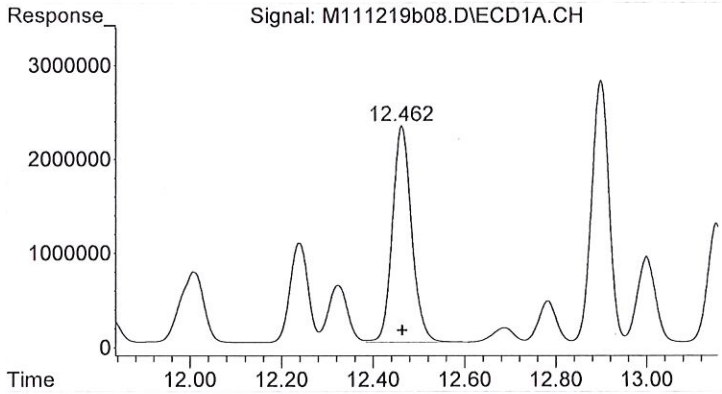
#6 1016-5

R.T.: 9.696 min
Delta R.T.: -0.002 min
Response: 1080360
Conc: 2302.52 pg/uL



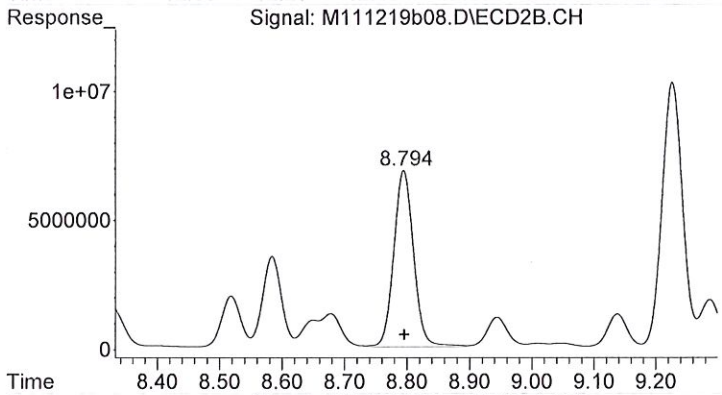
#6 1016-5

R.T.: 6.567 min
Delta R.T.: 0.000 min
Response: 3321615
Conc: 2368.35 pg/uL



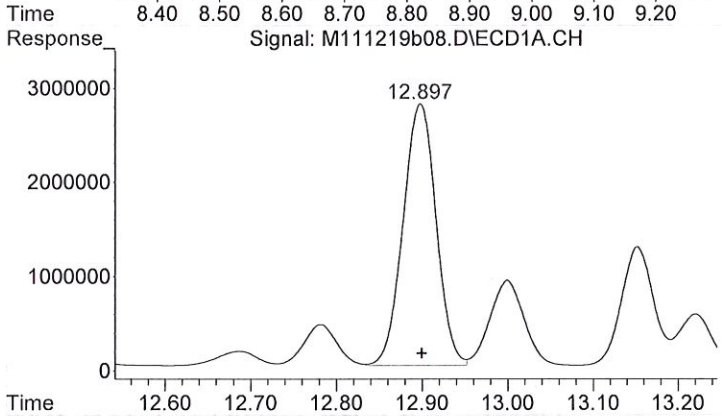
#7 1260-1

R.T.: 12.462 min
Delta R.T.: -0.002 min
Response: 2296777
Conc: 2452.69 pg/uL



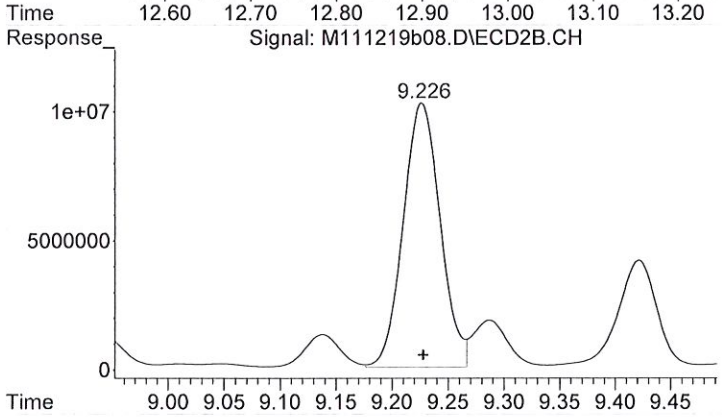
#7 1260-1

R.T.: 8.795 min
Delta R.T.: -0.001 min
Response: 6816669
Conc: 2285.89 pg/uL



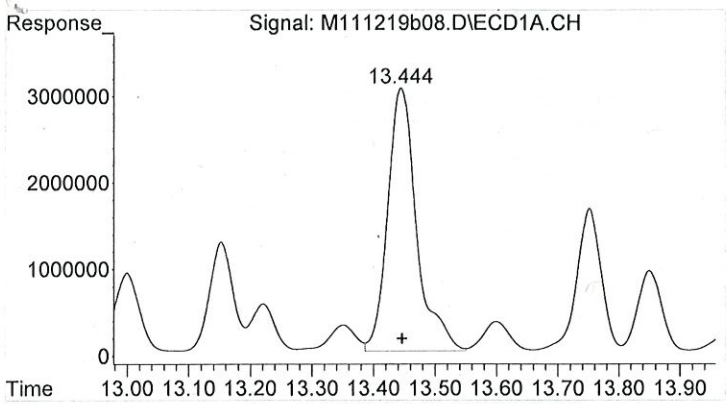
#8 1260-2

R.T.: 12.898 min
Delta R.T.: -0.002 min
Response: 2776045
Conc: 2519.49 pg/uL



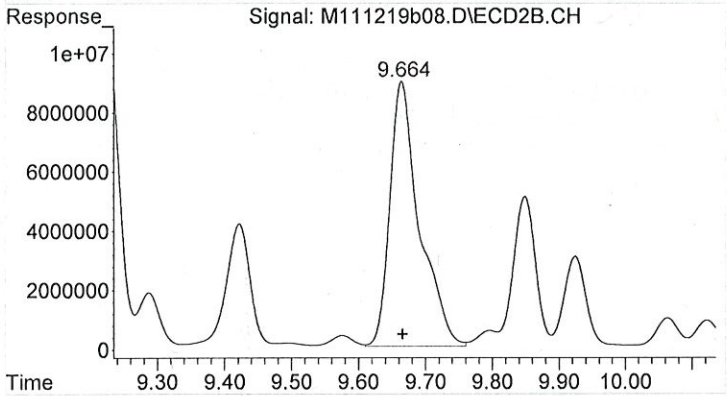
#8 1260-2

R.T.: 9.227 min
Delta R.T.: -0.001 min
Response: 10231012
Conc: 2294.05 pg/uL



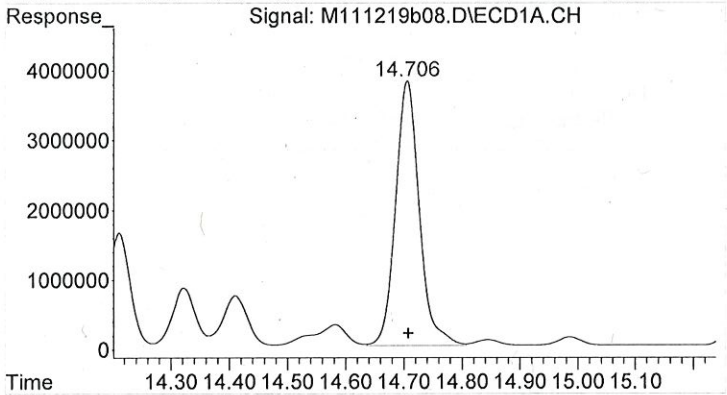
#9 1260-3

R.T.: 13.445 min
Delta R.T.: -0.002 min
Response: 3035995
Conc: 2520.58 pg/uL



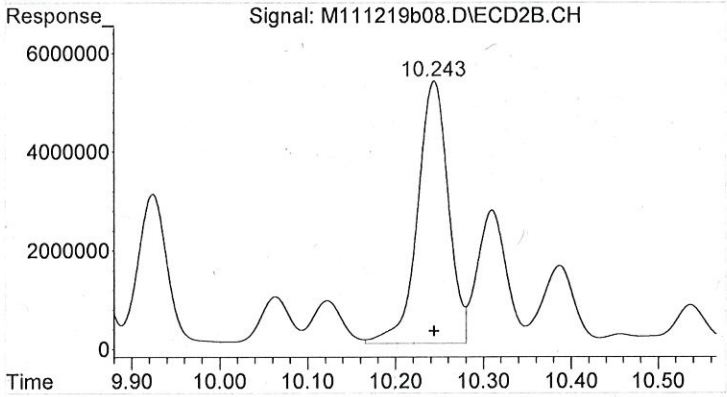
#9 1260-3

R.T.: 9.664 min
Delta R.T.: -0.002 min
Response: 8929234
Conc: 2398.00 pg/uL



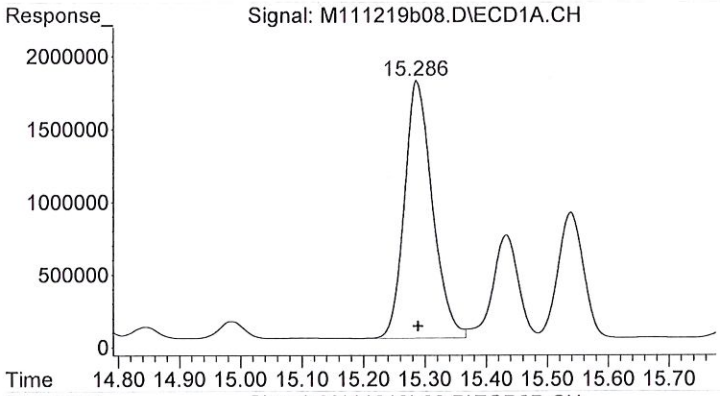
#10 1260-4

R.T.: 14.706 min
Delta R.T.: -0.002 min
Response: 3788113
Conc: 2617.94 pg/uL



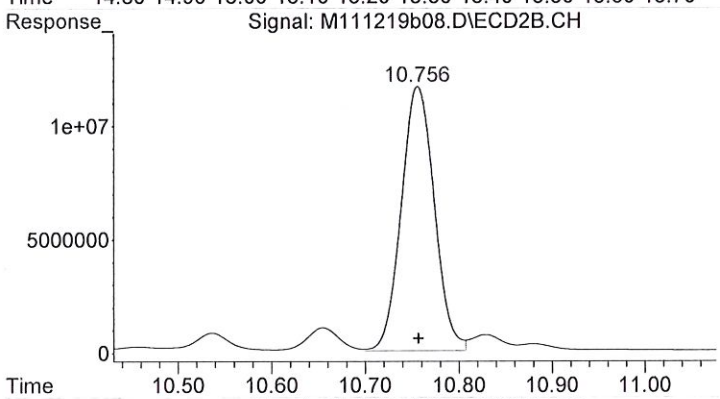
#10 1260-4

R.T.: 10.244 min
Delta R.T.: 0.000 min
Response: 5313948
Conc: 2376.94 pg/uL



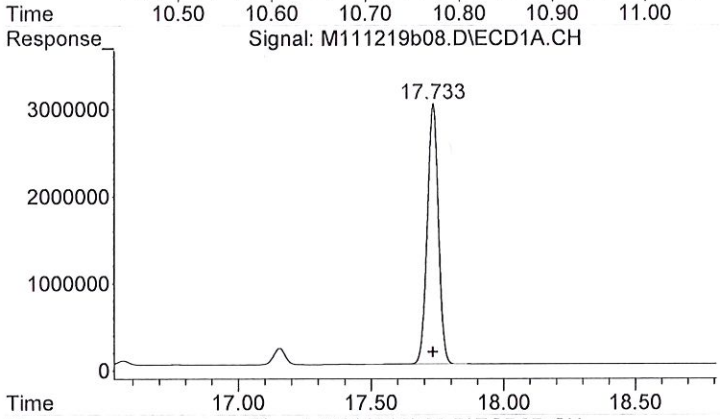
#11 1260-5

R.T.: 15.287 min
Delta R.T.: -0.002 min
Response: 1769619
Conc: 2651.90 pg/uL



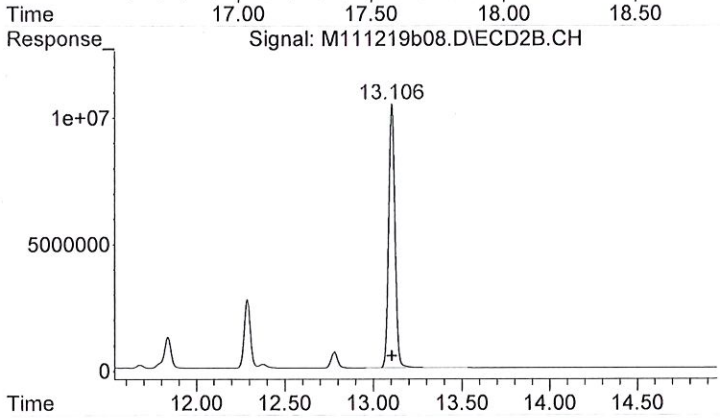
#11 1260-5

R.T.: 10.756 min
Delta R.T.: 0.000 min
Response: 11620429
Conc: 2410.22 pg/uL



#12 dcb

R.T.: 17.733 min
Delta R.T.: 0.000 min
Response: 2982381
Conc: 259.03 pg/uL



#12 dcb

R.T.: 13.106 min
Delta R.T.: 0.000 min
Response: 10415832
Conc: 256.48 pg/uL

PCB SSV Report

Data File....: M111219b10.D
Dataname.....: 87PCB111219B
Analyzed.....: 11/12/2019 15:46

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

SSV Level..: 100 pg/uL
ICAL Date..: 11/12/2019

Datafile path....: J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\M111219b10.D
DP Method path...: J:\Organics\Minerva\Methods\M111219PCB1260.M

SSV 1260 100pg/uL

CAS #	Compound	RT	Exp RT	Area	Spike (expected)	Amount (pg)	%Rec	Flag
Surrogate								
	tmx (1)	-	6.96	-	10	-	-	
	dcb	-	17.73	-	10	-	-	
	tmx (1) #2	-	4.71	-	10	-	-	
	dcb #2	-	13.11	-	10	-	-	
Target					Criteria range: 70-130%			
	1016 -1	-	7.57	-	100	-	-	
	1016-2	-	8.63	-	100	-	-	
	1016-3	-	9.28	-	100	-	-	
	1016-4	-	9.43	-	100	-	-	
	1016-5	-	9.70	-	100	-	-	
	1260-1	12.46	12.46	123638	100	126	126	
	1260-2	12.90	12.90	141550	100	124	124	
	1260-3	13.44	13.45	149474	100	122	122	
	1260-4	14.71	14.71	179696	100	124	124	
	1260-5	15.29	15.29	81500	100	121	121	
	1016 -1 #2	-	5.26	-	100	-	-	
	1016-2 #2	-	5.71	-	100	-	-	
	1016-3 #2	-	6.32	-	100	-	-	
	1016-4 #2	-	6.49	-	100	-	-	
	1016-5 #2	-	6.57	-	100	-	-	
	1260-1 #2	8.80	8.80	354786	100	112	112	
	1260-2 #2	9.23	9.23	497504	100	106	106	
	1260-3 #2	9.67	9.67	388360	100	102	102	
	1260-4 #2	10.25	10.24	253860	100	109	109	
	1260-5 #2	10.76	10.76	531138	100	110	110	

Average %Recovery:	%Rec
1016 Column 1 (n=5)	0
1016 Column 2 (n=5)	0
1260 Column 1 (n=5)	123
1260 Column 2 (n=5)	108

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 3:46 pm
Operator : DWOOD
Sample : 87PCB111219B
Misc : SSV 1260 100pg/uL
ALS Vial : 0 (Sig #1); 35 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:46:44 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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	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	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	12.462	8.796	123638	354786	126.119	111.911
8) L2 1260-2	12.898	9.228	141550	497504	124.106	105.998
9) L2 1260-3	13.444	9.666	149474	388360	121.668	101.617
10) L2 1260-4	14.706	10.245	179696	253860	123.901	109.449
11) L2 1260-5	15.291	10.758	81500	531138	120.683	110.034
Sum 1260-1			675857	2025649	616.476	539.008
Average 1260-1					123.295	107.802

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

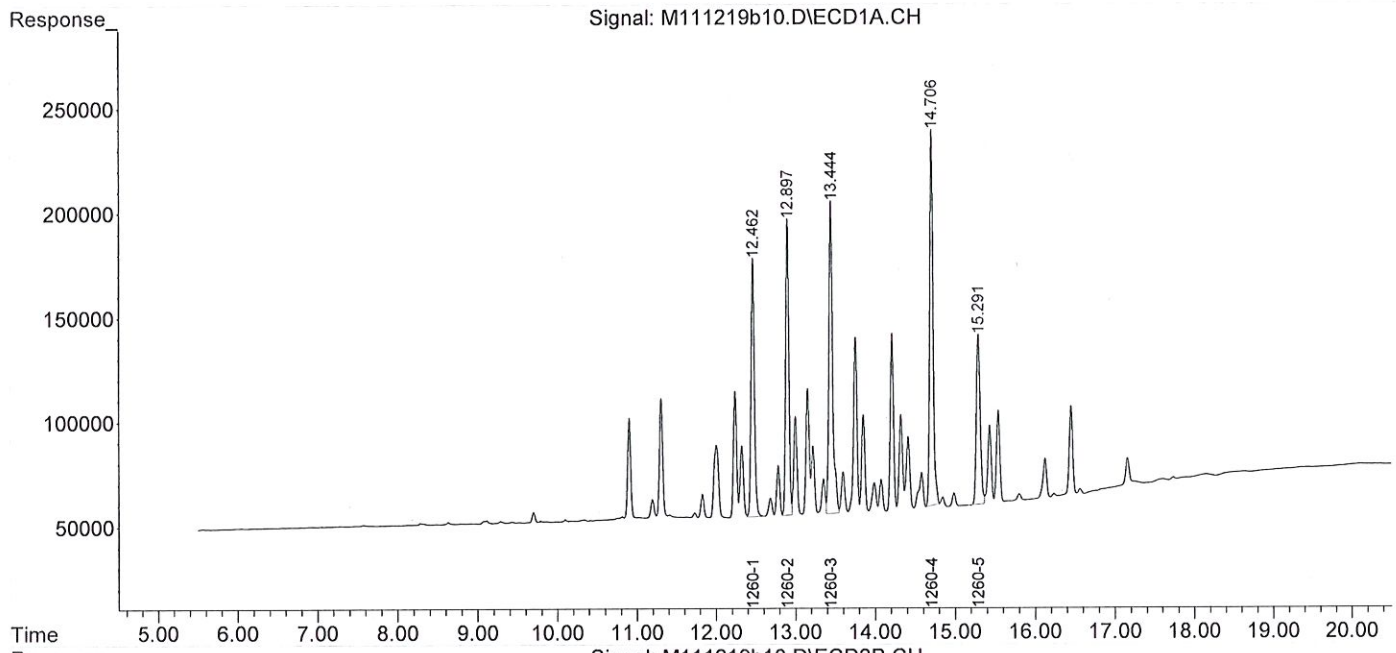
lw
11/13/19

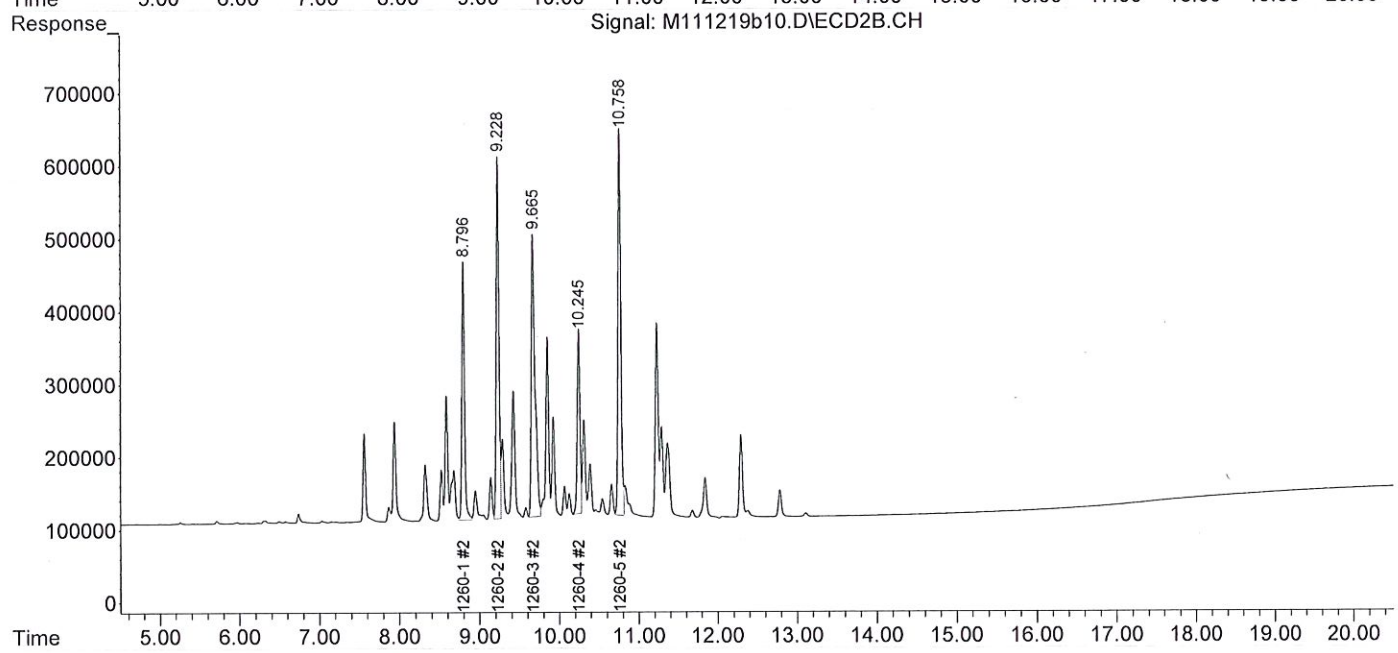
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 3:46 pm
Operator : DWOOD
Sample : 87PCB111219B
Misc : SSV 1260 100pg/uL
ALS Vial : 0 (Sig #1); 35 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:46:44 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 3:46 pm
Operator : DWOOD
Sample : 87PCB111219B
Misc : SSV 1260 100pg/uL
ALS Vial : 0 (Sig #1); 35 (Sig #2) Sample Multiplier: 1

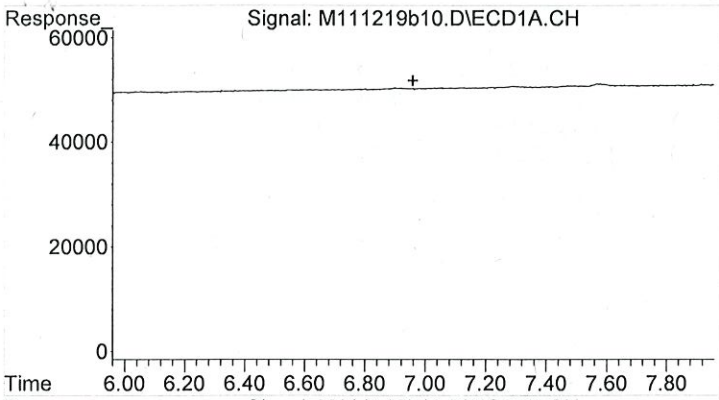
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:46:44 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
Response via : Initial Calibration
Integrator: ChemStation 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	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	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	12.462	8.796	123638	354786	126.119	111.911
8)	L2 1260-2	12.898	9.228	141550	497504	124.106	105.998
9)	L2 1260-3	13.444	9.666	149474	388360	121.668	101.617
10)	L2 1260-4	14.706	10.245	179696	253860	123.901	109.449
11)	L2 1260-5	15.291	10.758	81500	531138	120.683	110.034
	Sum 1260-1			675857	2025649	616.476	539.008
	Average 1260-1					123.295	107.802

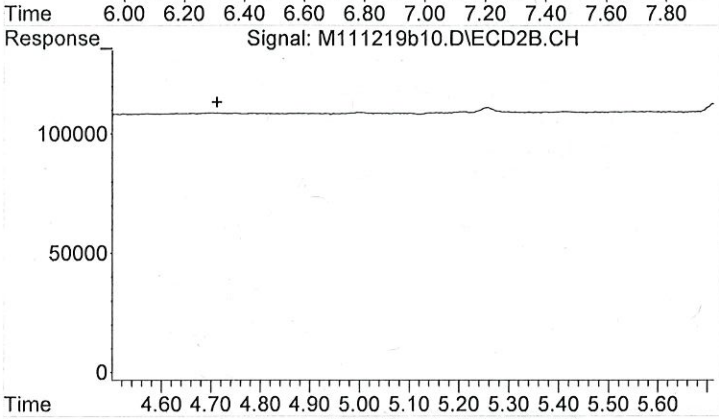
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ww
11/13/19



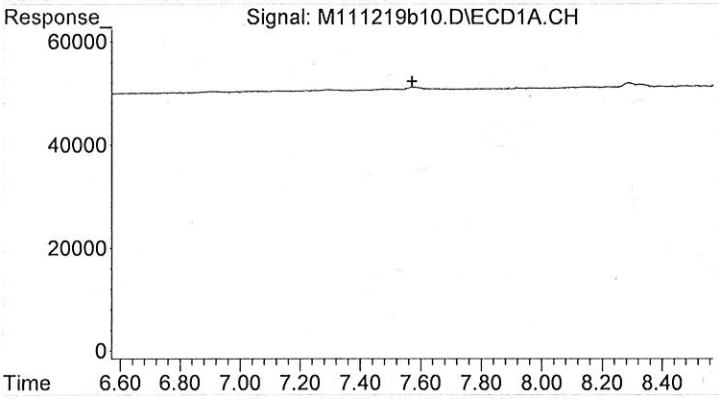
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 6.959 min
Response: 0
Conc: N.D.



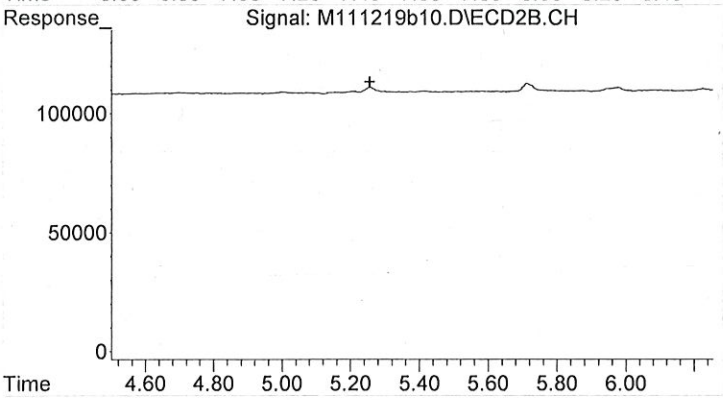
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 4.713 min
Response: 0
Conc: N.D.



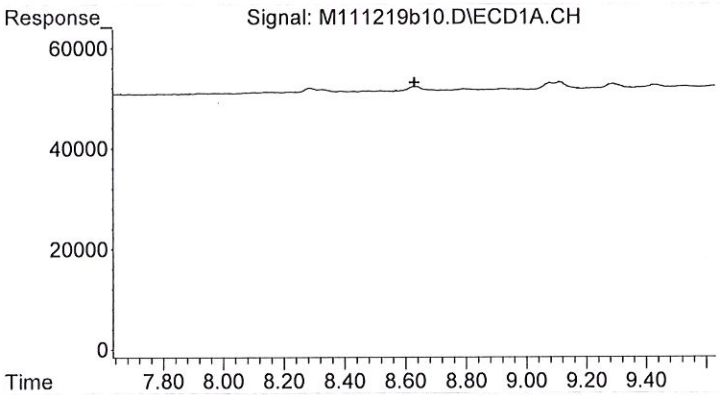
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.571 min
Response: 0
Conc: N.D.



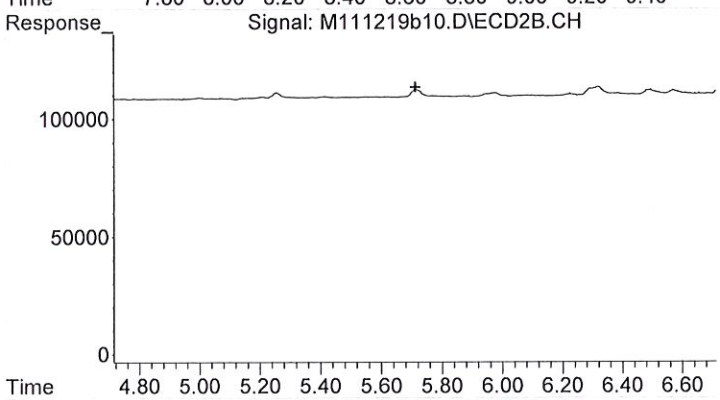
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.256 min
Response: 0
Conc: N.D.



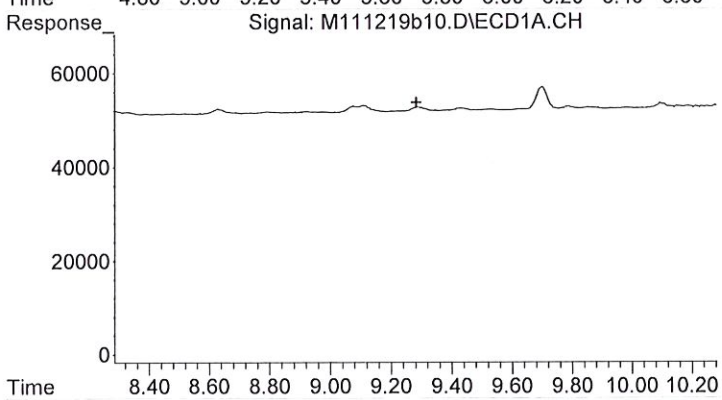
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.631 min
Response: 0
Conc: N.D.



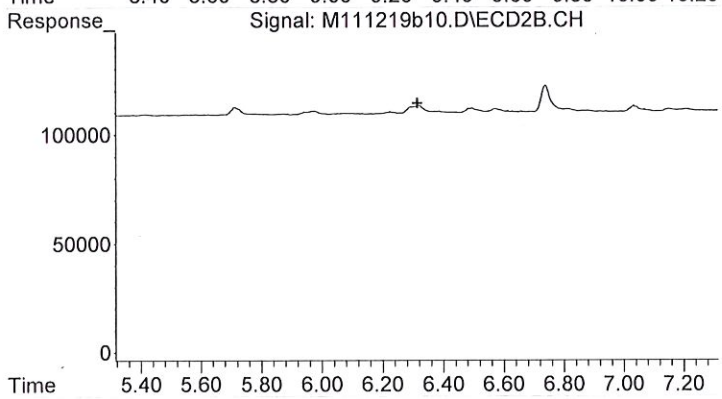
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.713 min
Response: 0
Conc: N.D.



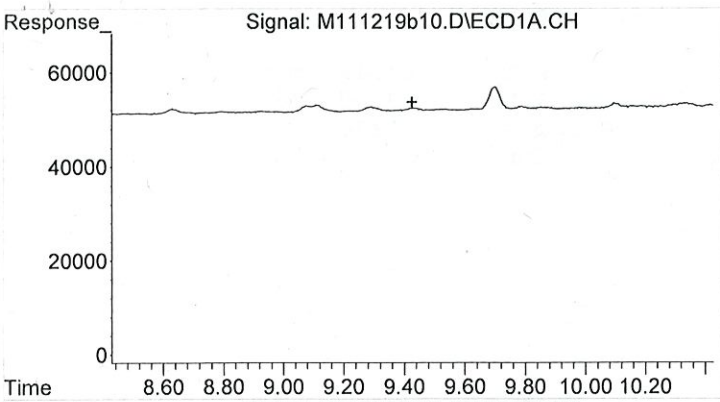
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.284 min
Response: 0
Conc: N.D.



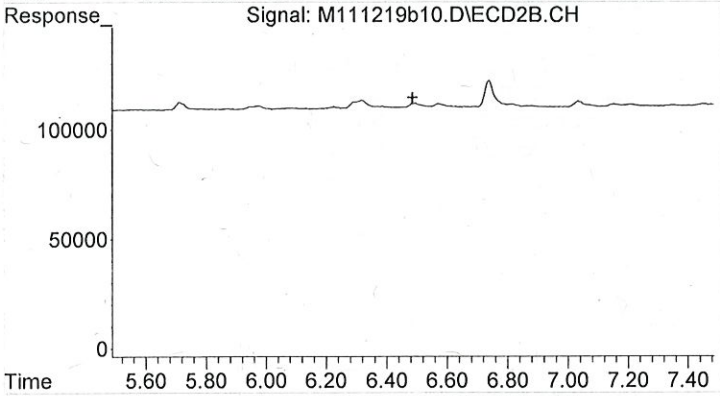
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.315 min
Response: 0
Conc: N.D.



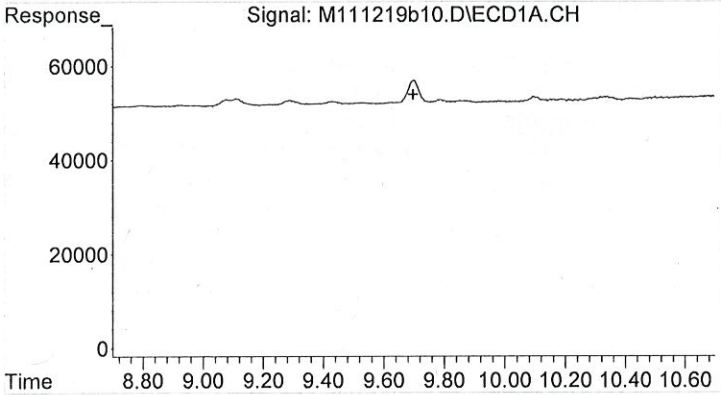
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.427 min
Response: 0
Conc: N.D.



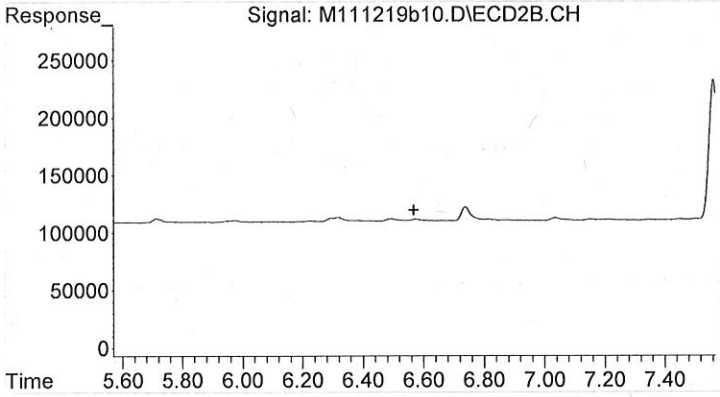
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.487 min
Response: 0
Conc: N.D.



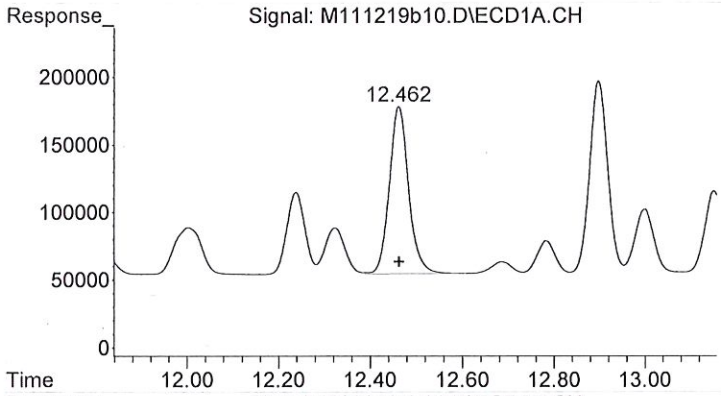
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.698 min
Response: 0
Conc: N.D.



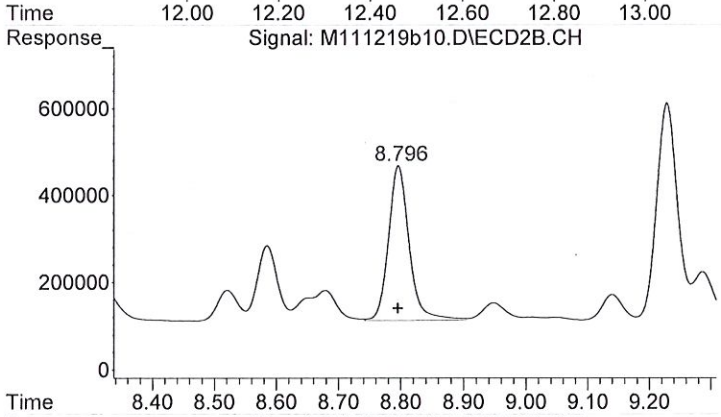
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.568 min
Response: 0
Conc: N.D.



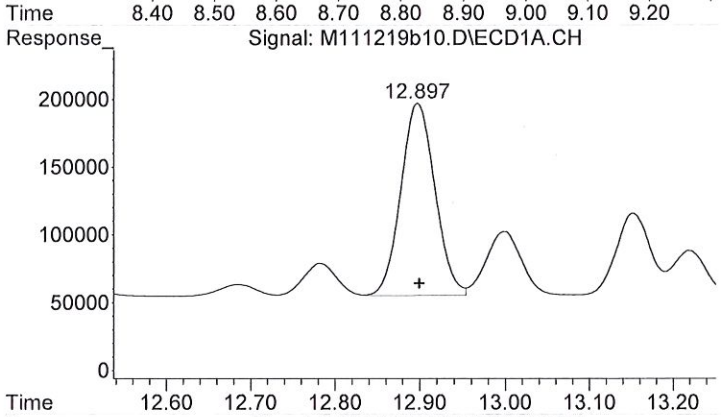
#7 1260-1

R.T.: 12.462 min
Delta R.T.: -0.002 min
Response: 123638
Conc: 126.12 pg/uL



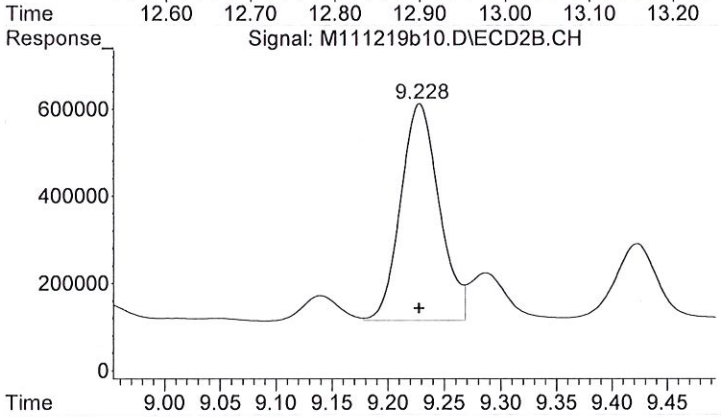
#7 1260-1

R.T.: 8.796 min
Delta R.T.: 0.000 min
Response: 354786
Conc: 111.91 pg/uL



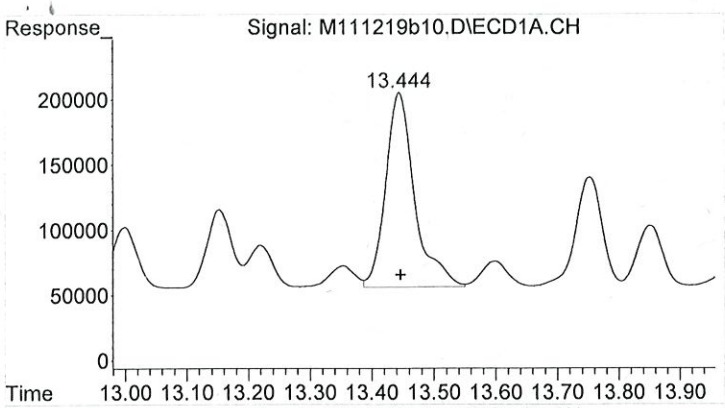
#8 1260-2

R.T.: 12.898 min
Delta R.T.: -0.002 min
Response: 141550
Conc: 124.11 pg/uL



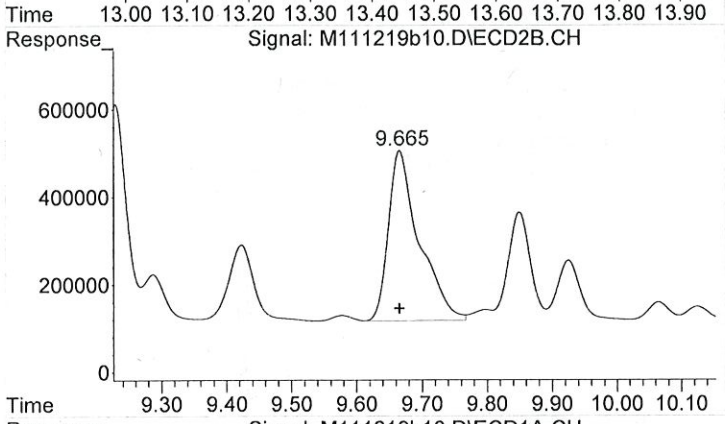
#8 1260-2

R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 497504
Conc: 106.00 pg/uL



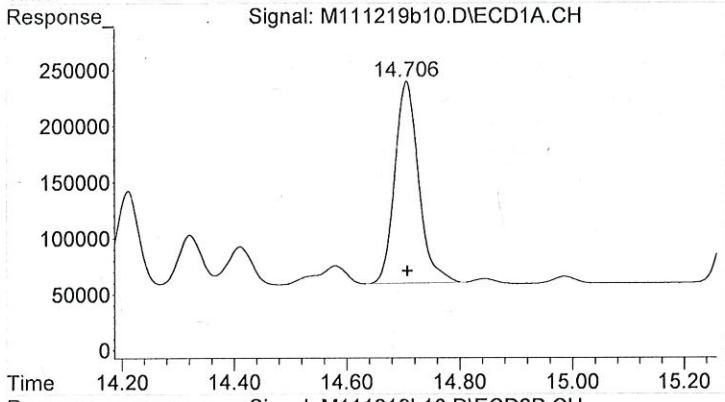
#9 1260-3

R.T.: 13.444 min
Delta R.T.: -0.003 min
Response: 149474
Conc: 121.67 pg/uL



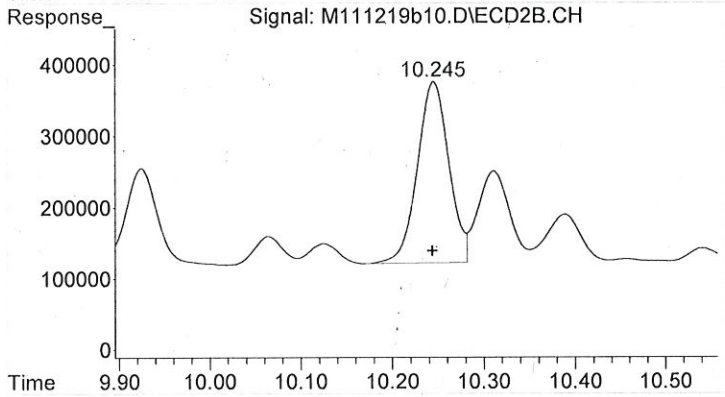
#9 1260-3

R.T.: 9.666 min
Delta R.T.: 0.000 min
Response: 388360
Conc: 101.62 pg/uL



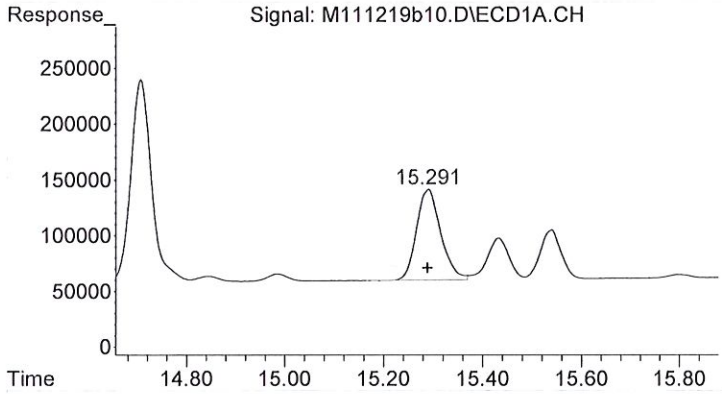
#10 1260-4

R.T.: 14.706 min
Delta R.T.: -0.002 min
Response: 179696
Conc: 123.90 pg/uL



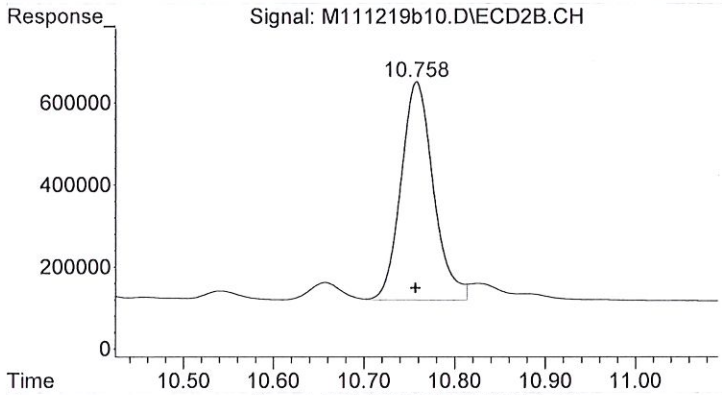
#10 1260-4

R.T.: 10.245 min
Delta R.T.: 0.001 min
Response: 253860
Conc: 109.45 pg/uL



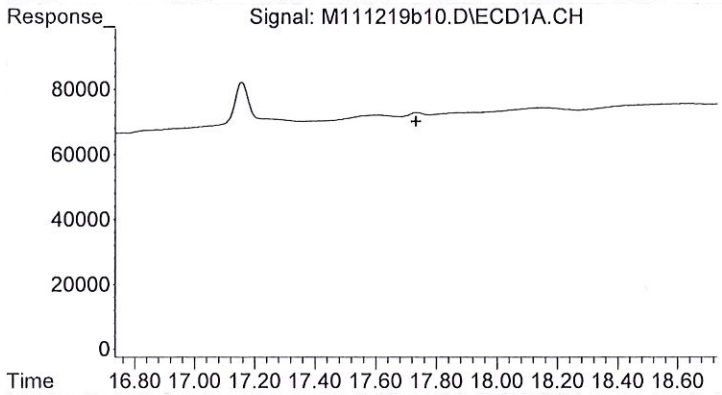
#11 1260-5

R.T.: 15.291 min
Delta R.T.: 0.002 min
Response: 81500
Conc: 120.68 pg/uL



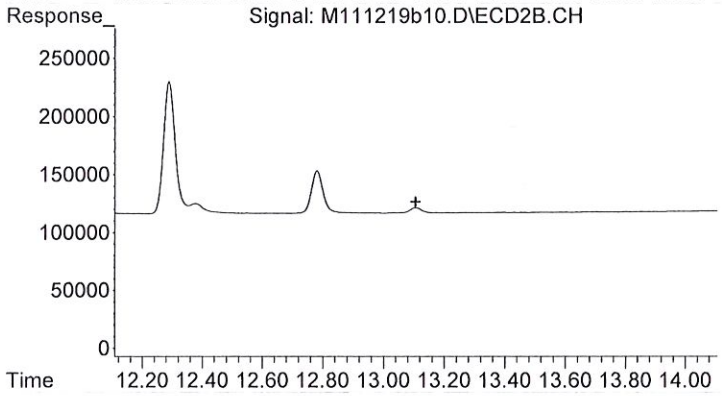
#11 1260-5

R.T.: 10.758 min
Delta R.T.: 0.001 min
Response: 531138
Conc: 110.03 pg/uL



#12 dcb

R.T.: 0.000 min
Exp R.T. : 17.733 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 0.000 min
Exp R.T. : 13.107 min
Response: 0
Conc: N.D.

PCB SSV Report

Data File....: M111219b09.D
Dataname.....: 87PCB111219A
Analyzed.....: 11/12/2019 15:21

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

SSV Level..: 100 pg/uL
ICAL Date..: 11/12/2019

Datafile path....: J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\M111219b09.D
DP Method path...: J:\Organics\Minerva\Methods\M111219PCB1260.M

SSV 1016 100pg/uL

CAS #	Compound	RT	Exp RT	Area	Spike (expected)	Amount (pg)	%Rec	Flag
Surrogate								
	tmx (1)	-	6.96	-	10	-	-	
	dcb	-	17.73	-	10	-	-	
	tmx (1) #2	4.70	4.71	18182	10	-0.129141		
	dcb #2	-	13.11	-	10	-	-	
Target					Criteria range: 70-130%			
	1016 -1	7.57	7.57	50717	100	115	115	
	1016-2	8.63	8.63	76396	100	130	130	
	1016-3	9.28	9.28	93391	100	125	125	
	1016-4	9.43	9.43	58237	100	122	122	
	1016-5	9.70	9.70	61173	100	122	122	
	1260-1	-	12.46	-	100	-	-	
	1260-2	-	12.90	-	100	-	-	
	1260-3	-	13.45	-	100	-	-	
	1260-4	-	14.71	-	100	-	-	
	1260-5	-	15.29	-	100	-	-	
	1016 -1 #2	5.26	5.26	176739	100	116	116	
	1016-2 #2	5.71	5.71	323819	100	123	123	
	1016-3 #2	6.32	6.32	413718	100	116	116	
	1016-4 #2	6.49	6.49	234623	100	116	116	
	1016-5 #2	6.57	6.57	166433	100	114	114	
	1260-1 #2	-	8.80	-	100	-	-	
	1260-2 #2	-	9.23	-	100	-	-	
	1260-3 #2	-	9.67	-	100	-	-	
	1260-4 #2	-	10.24	-	100	-	-	
	1260-5 #2	-	10.76	-	100	-	-	

Average %Recovery:	%Rec
1016 Column 1 (n=5)	123
1016 Column 2 (n=5)	117
1260 Column 1 (n=5)	0
1260 Column 2 (n=5)	0

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 3:21 pm
Operator : DWOOD
Sample : 87PCB111219A
Misc : SSV 1016 100pg/uL
ALS Vial : 0 (Sig #1); 34 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:46:33 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
	System Monitoring Compounds						
1)	S2 tmx (1)	0.000	4.700	0	18182	N.D.	N.D.
12)	S2 dcb	0.000	0.000	0	0	N.D.	N.D.
	Target Compounds						
2)	L1 1016 -1	7.571	5.256	50717	176739	115.276	115.699
3)	L1 1016-2	8.630	5.713	76396	323819	129.820	122.929
4)	L1 1016-3	9.284	6.316	93391	413718	124.998	115.658
5)	L1 1016-4	9.427	6.487	58237	234623	122.418	116.206
6)	L1 1016-5	9.697	6.569	61173	166433	122.168	114.011
	Sum 1016 -1			339914	1315333	614.678	584.503
	Average 1016 -1					122.936	116.901
7)	L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8)	L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9)	L2 1260-3	0.000	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.

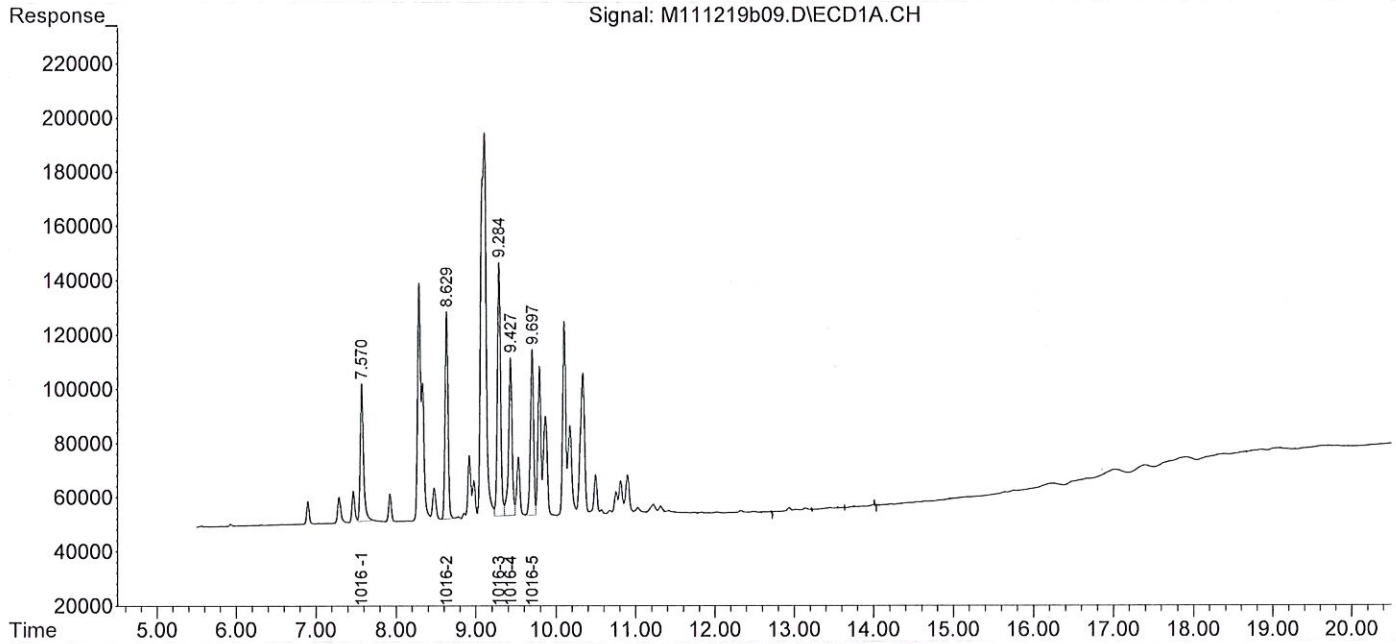
MW
11/13/19

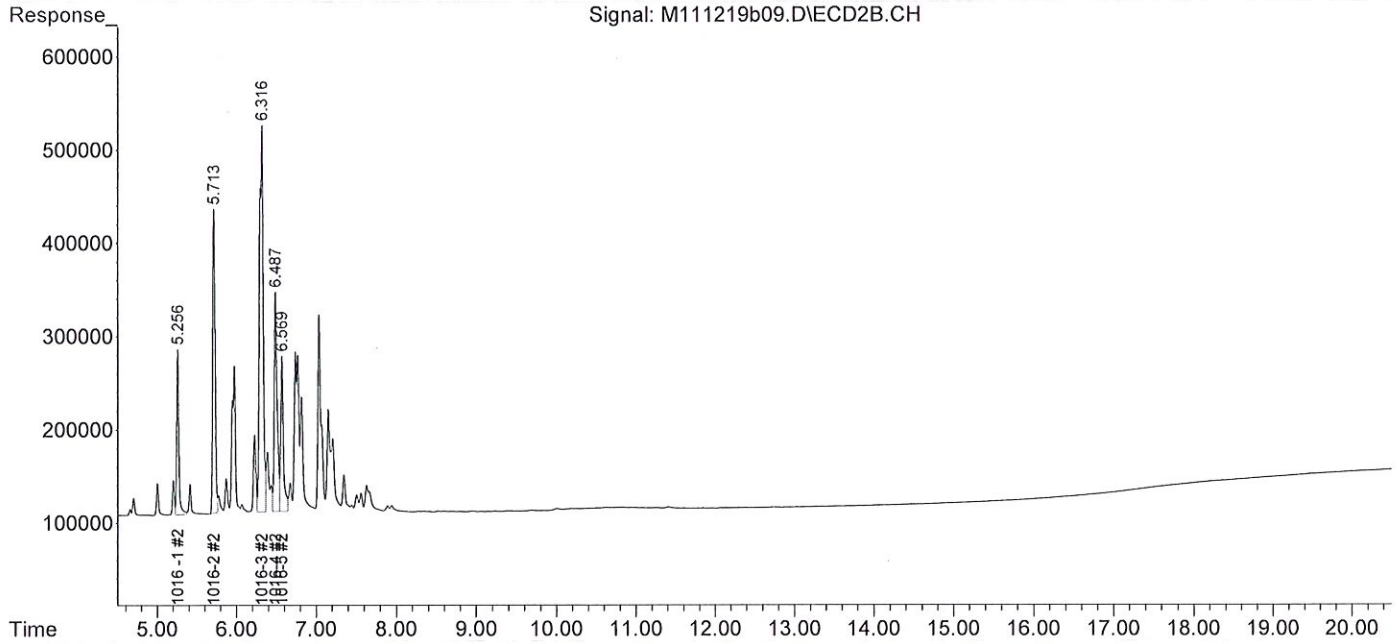
Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2019 DATA\M111219PCBICAL\
Data File : M111219b09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 3:21 pm
Operator : DWOOD
Sample : 87PCB111219A
Misc : SSV 1016 100pg/uL
ALS Vial : 0 (Sig #1); 34 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:46:33 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
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 2019 DATA\M111219PCBICAL\
Data File : M111219b09.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 12 Nov 2019 3:21 pm
Operator : DWOOD
Sample : 87PCB111219A
Misc : SSV 1016 100pg/uL
ALS Vial : 0 (Sig #1); 34 (Sig #2) Sample Multiplier: 1

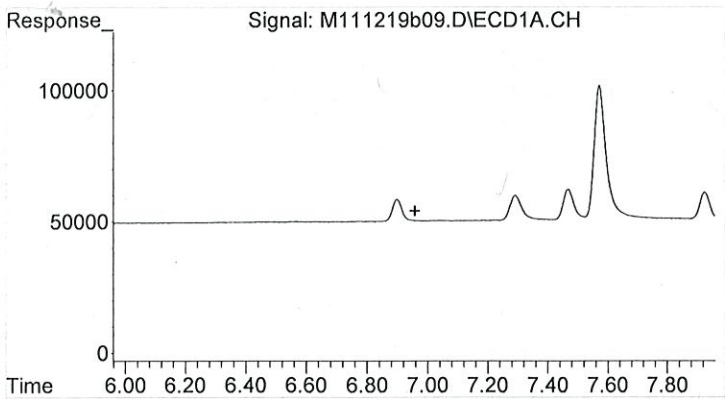
Integration File signal 1: EVENTS1.E
Integration File signal 2: EVENTS1.E
Quant Time: Nov 13 10:46:33 2019
Quant Method : J:\Organics\Minerva\Methods\M111219PCB1260.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Nov 12 15:48:19 2019
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
	System Monitoring Compounds						
1)	S2 tmx (1)	0.000	4.700	0	18182	N.D.	N.D.
12)	S2 dcb	0.000	0.000	0	0	N.D.	N.D.
	Target Compounds						
2)	L1 1016 -1	7.571	5.256	50717	176739	115.276	115.699
3)	L1 1016-2	8.630	5.713	76396	323819	129.820	122.929
4)	L1 1016-3	9.284	6.316	93391	413718	124.998	115.658
5)	L1 1016-4	9.427	6.487	58237	234623	122.418	116.206
6)	L1 1016-5	9.697	6.569	61173	166433	122.168	114.011
	Sum 1016 -1			339914	1315333	614.678	584.503
	Average 1016 -1					122.936	116.901
7)	L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8)	L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9)	L2 1260-3	0.000	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

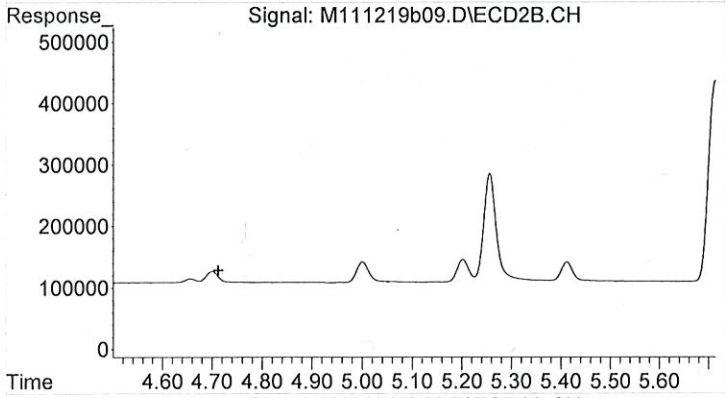
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
11/13/19



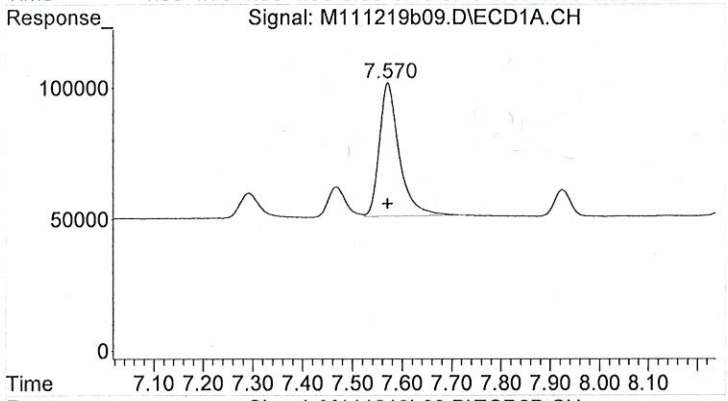
#1 tmx (1)

R.T.: 0.000 min
Exp R.T. : 6.959 min
Response: 0
Conc: N.D.



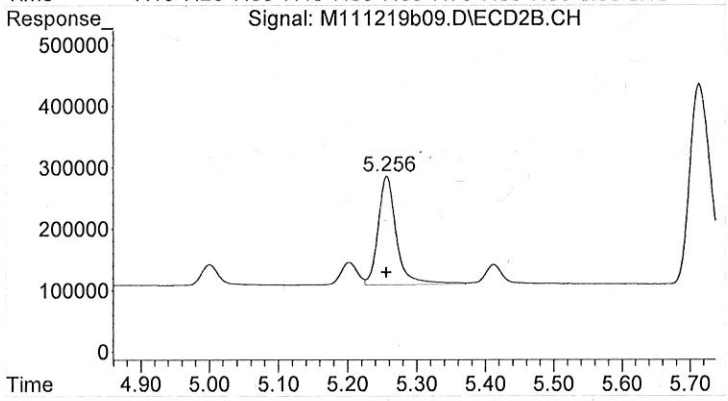
#1 tmx (1)

R.T.: 4.700 min
Delta R.T.: -0.013 min
Response: 18182
Conc: N.D.



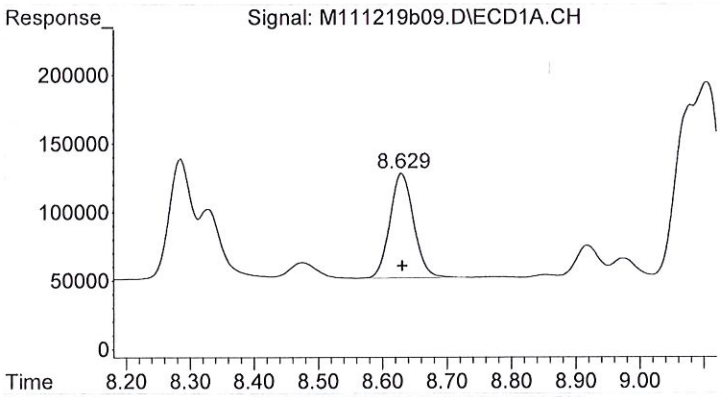
#2 1016 -1

R.T.: 7.571 min
Delta R.T.: 0.000 min
Response: 50717
Conc: 115.28 pg/uL



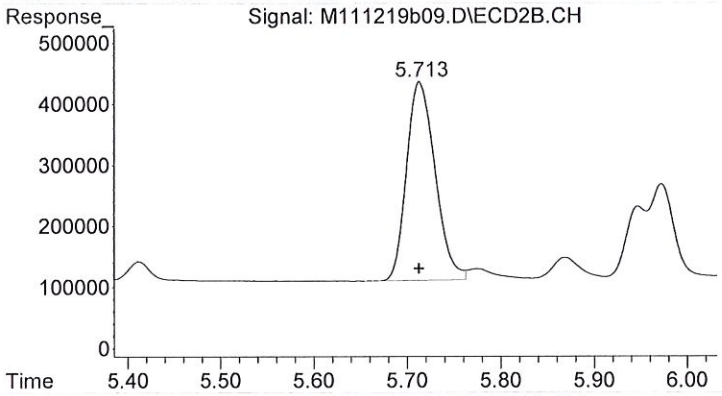
#2 1016 -1

R.T.: 5.256 min
Delta R.T.: 0.000 min
Response: 176739
Conc: 115.70 pg/uL



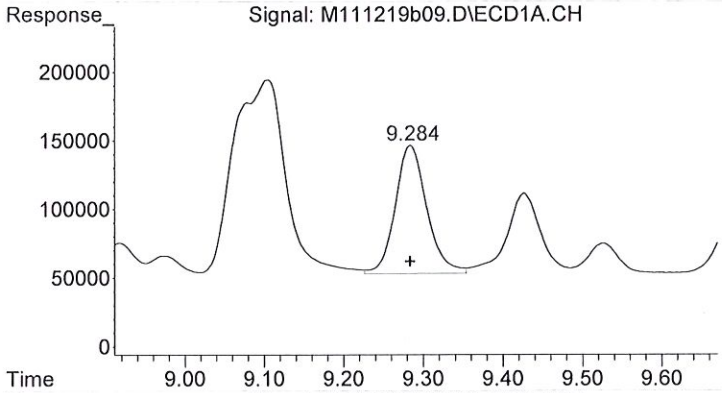
#3 1016-2

R.T.: 8.630 min
Delta R.T.: -0.001 min
Response: 76396
Conc: 129.82 pg/uL



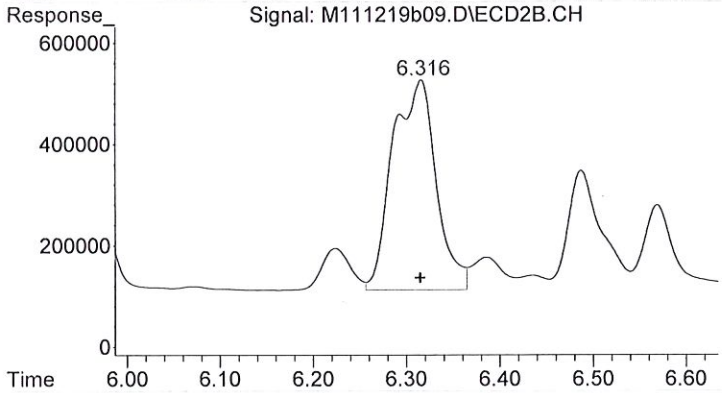
#3 1016-2

R.T.: 5.713 min
Delta R.T.: 0.000 min
Response: 323819
Conc: 122.93 pg/uL



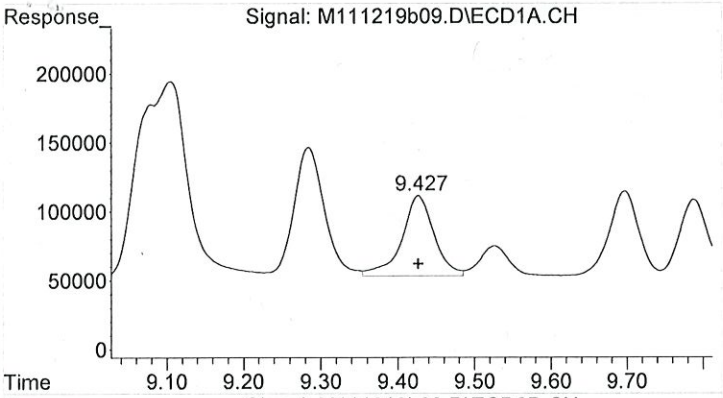
#4 1016-3

R.T.: 9.284 min
Delta R.T.: 0.000 min
Response: 93391
Conc: 125.00 pg/uL



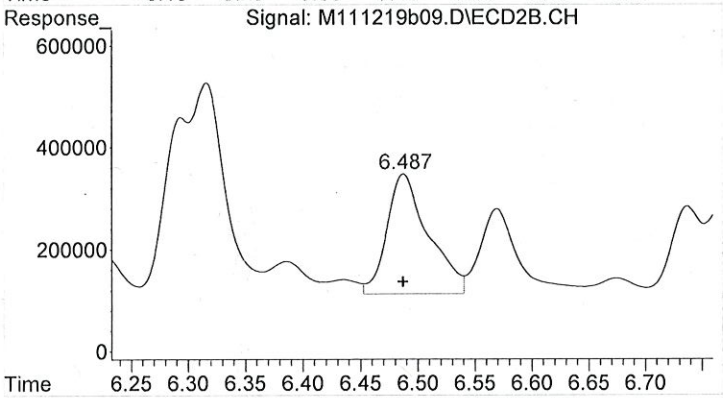
#4 1016-3

R.T.: 6.316 min
Delta R.T.: 0.000 min
Response: 413718
Conc: 115.66 pg/uL



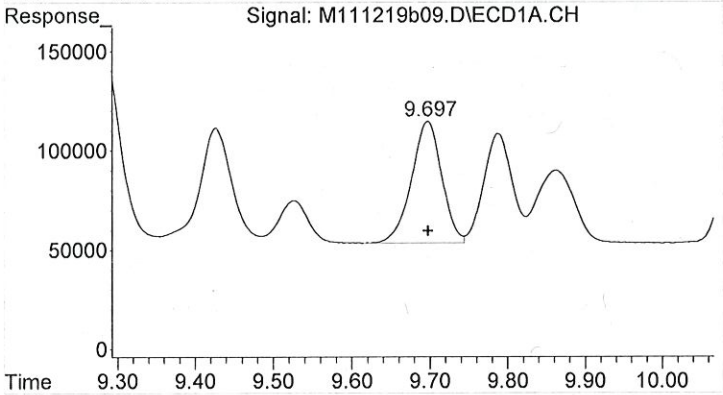
#5 1016-4

R.T.: 9.427 min
Delta R.T.: 0.000 min
Response: 58237
Conc: 122.42 pg/uL



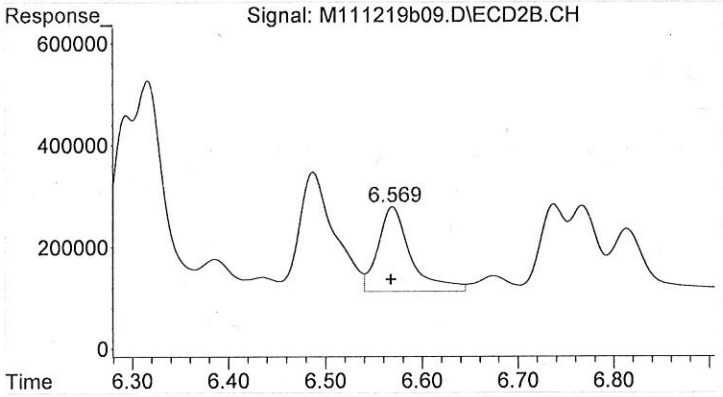
#5 1016-4

R.T.: 6.487 min
Delta R.T.: 0.000 min
Response: 234623
Conc: 116.21 pg/uL



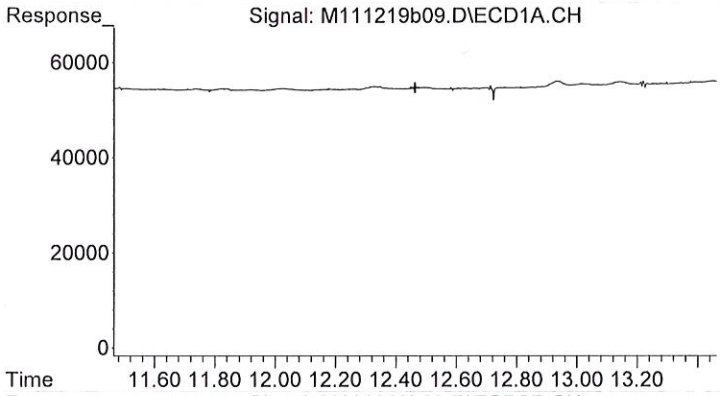
#6 1016-5

R.T.: 9.697 min
Delta R.T.: 0.000 min
Response: 61173
Conc: 122.17 pg/uL



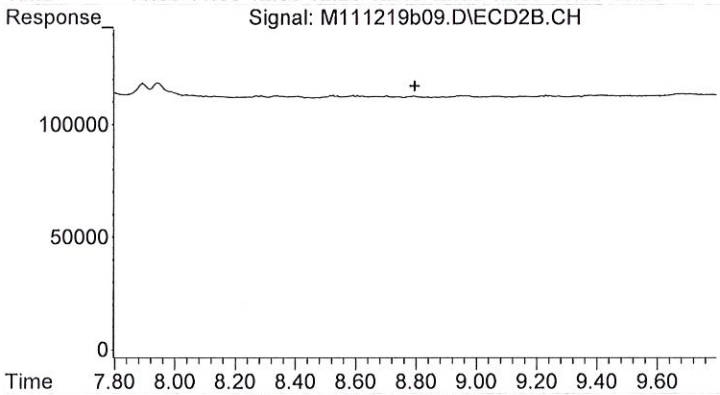
#6 1016-5

R.T.: 6.569 min
Delta R.T.: 0.001 min
Response: 166433
Conc: 114.01 pg/uL



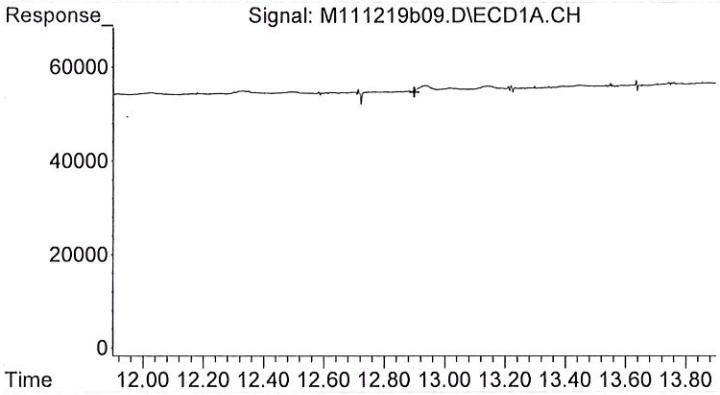
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 12.464 min
Response: 0
Conc: N.D.



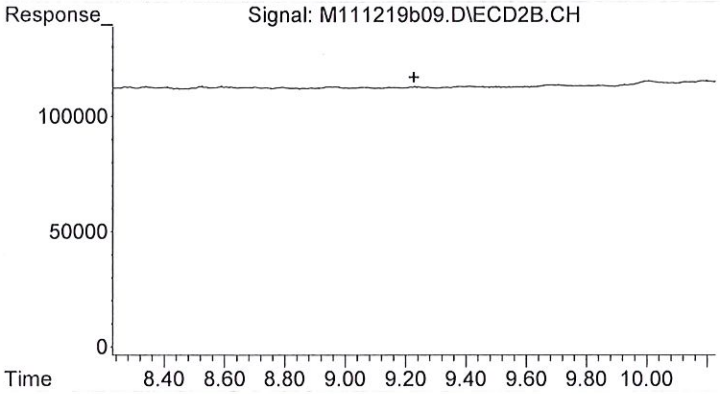
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 8.796 min
Response: 0
Conc: N.D.



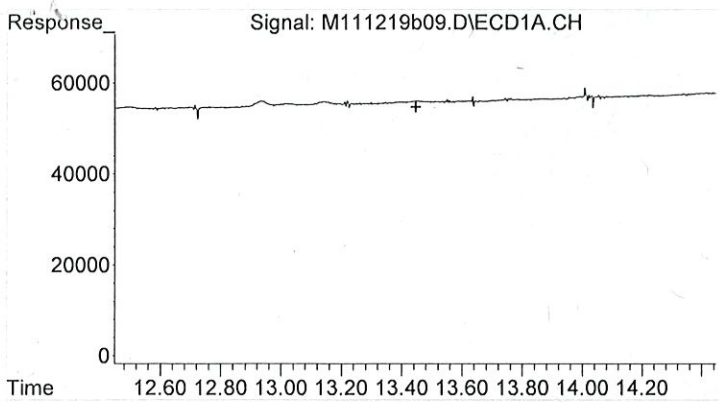
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 12.900 min
Response: 0
Conc: N.D.



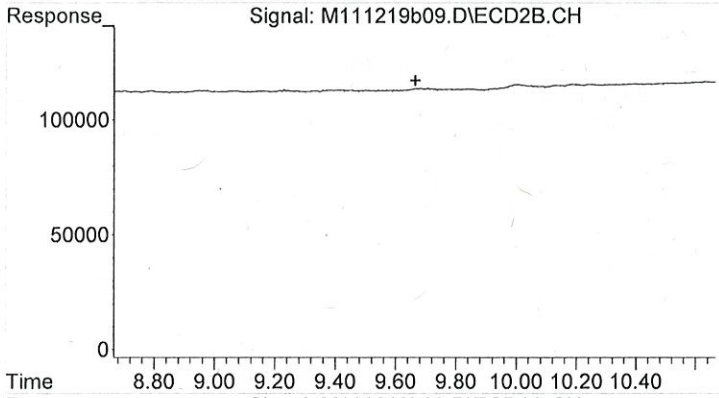
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 9.228 min
Response: 0
Conc: N.D.



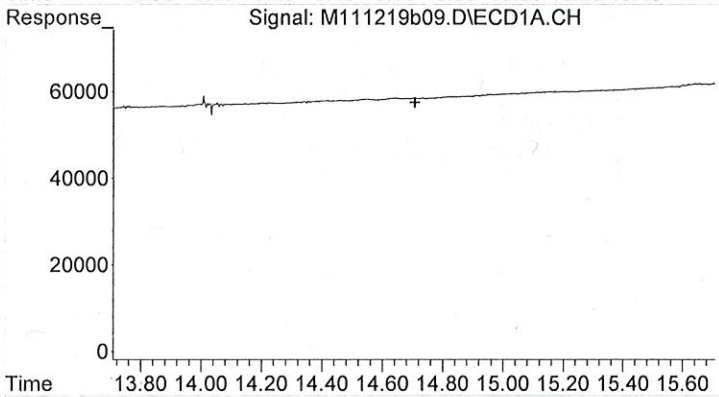
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 13.447 min
Response: 0
Conc: N.D.



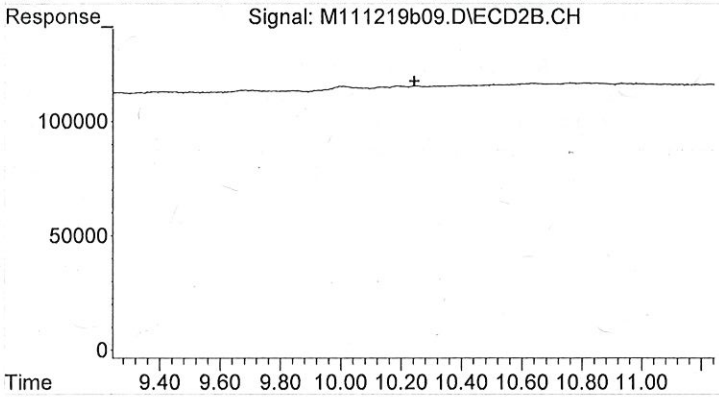
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 9.666 min
Response: 0
Conc: N.D.



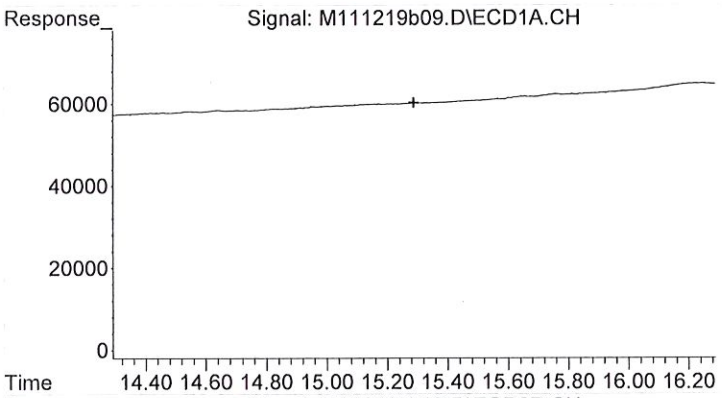
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 14.708 min
Response: 0
Conc: N.D.



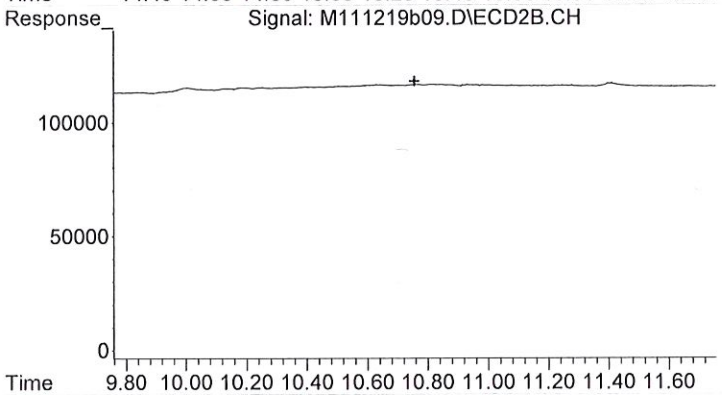
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 10.244 min
Response: 0
Conc: N.D.



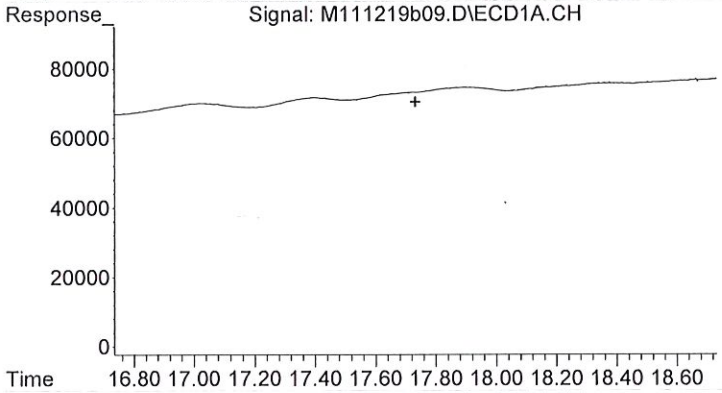
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 15.289 min
Response: 0
Conc: N.D.



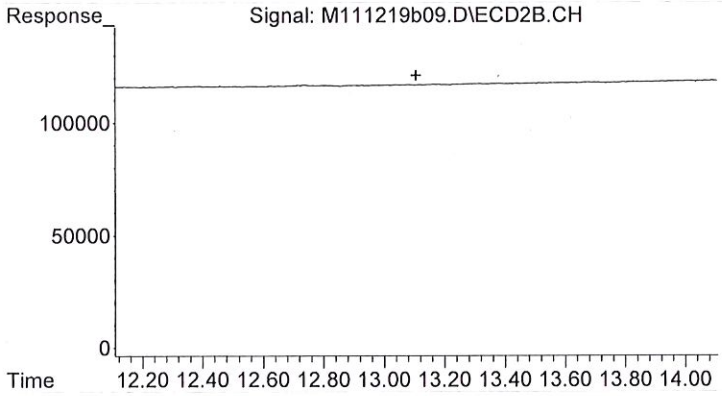
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 10.757 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 0.000 min
Exp R.T. : 17.733 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 0.000 min
Exp R.T. : 13.107 min
Response: 0
Conc: N.D.