

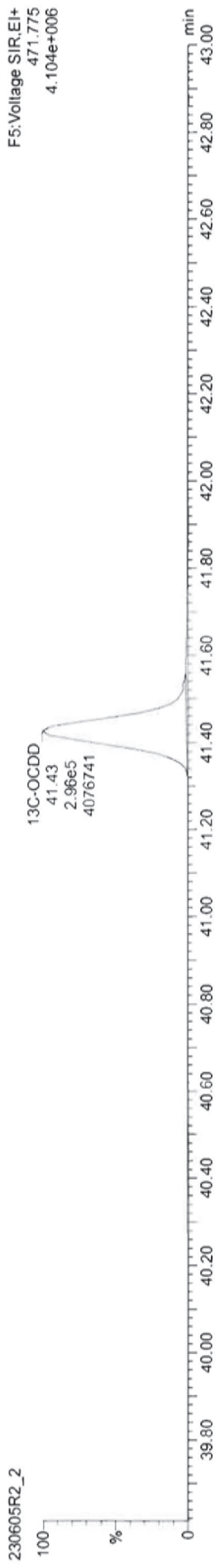
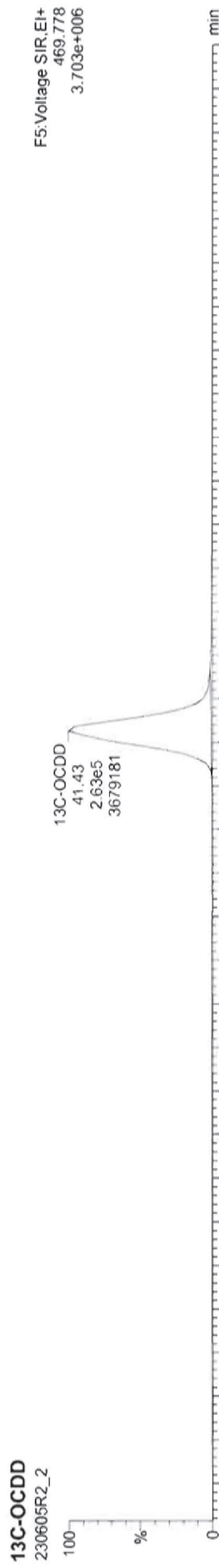
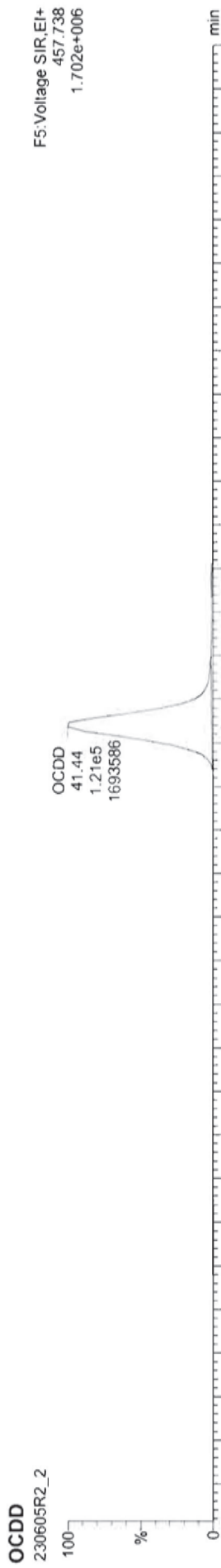
Dataset:

Untitled

Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time

Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

Name: 230605R2_2, Date: 06-Jun-2023, Time: 00:44:59, ID: ST230605R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



Dataset: Untitled

Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
 Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

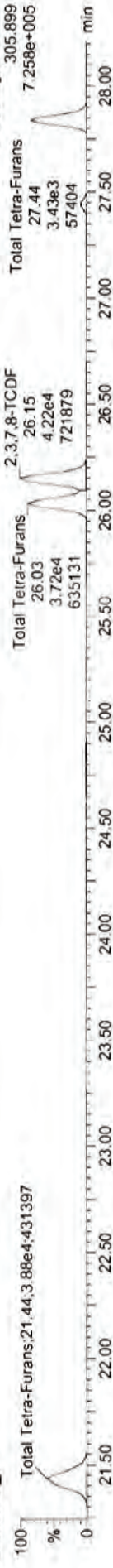
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2,3,7,8-TCDF

230605R2_2



230605R2_2

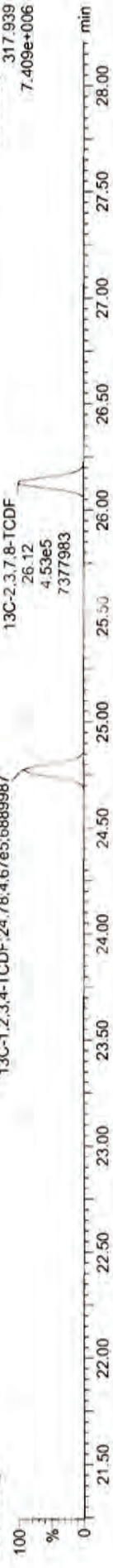


13C-2,3,7,8-TCDF

230605R2_2

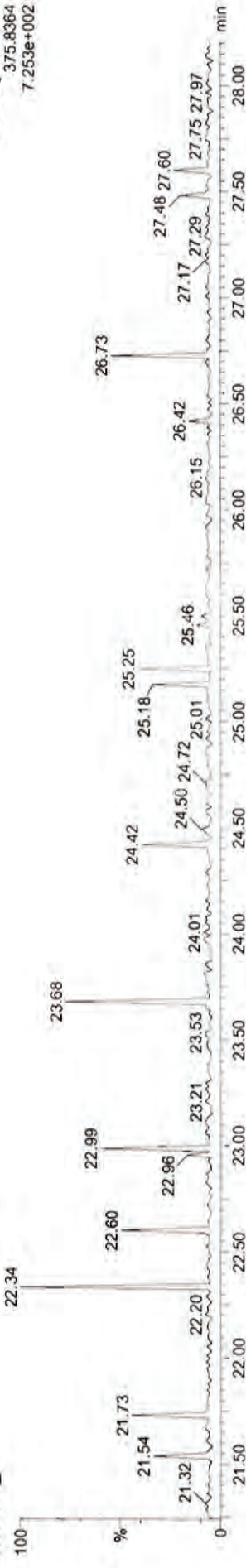


230605R2_2



DPE1

230605R2_2

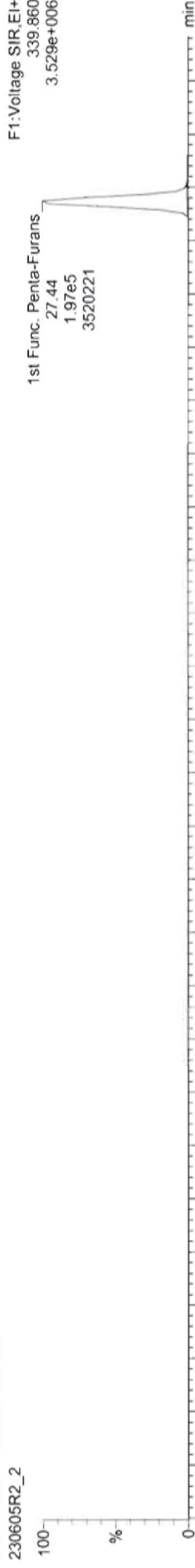


Dataset: Untitled

Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

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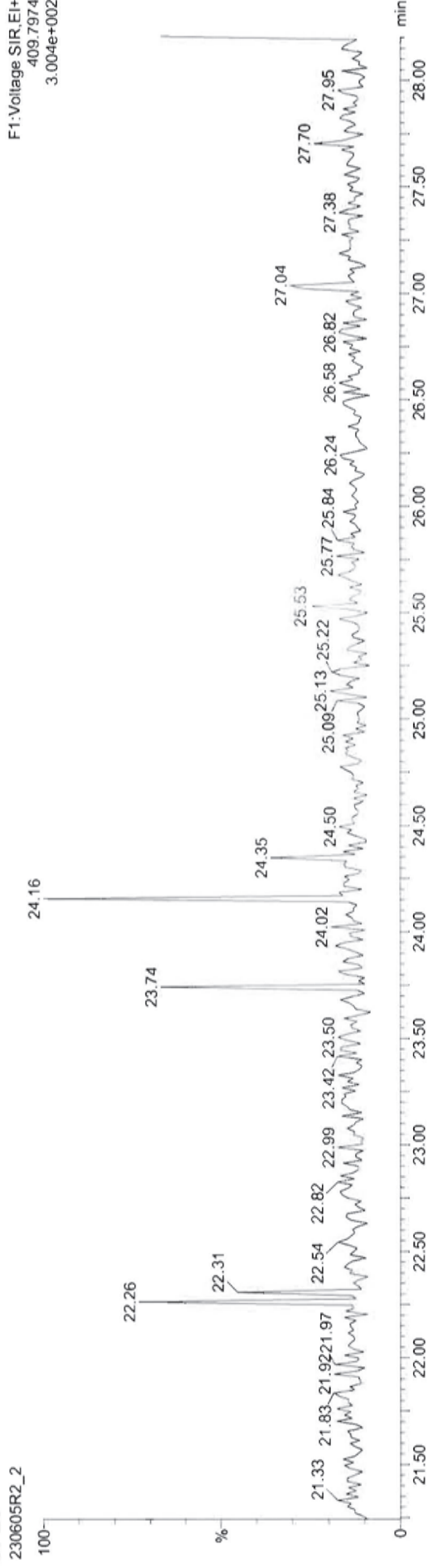
1st Func. Penta-Furans



230605R2_2



DPE6

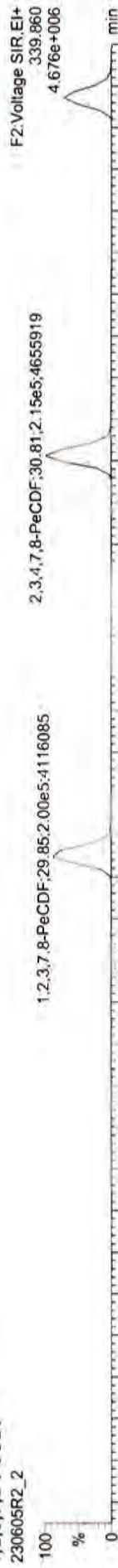


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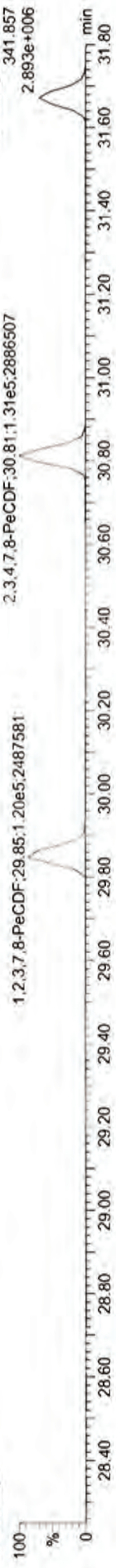
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Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

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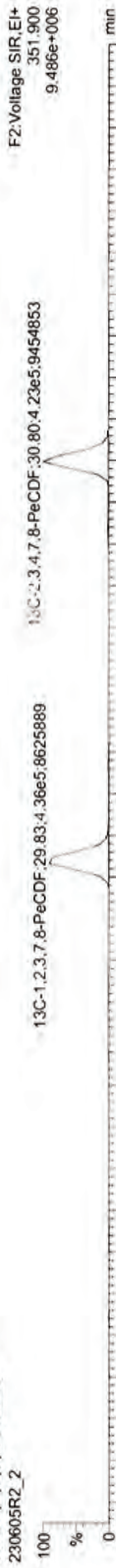
1,2,3,7,8-PeCDF



230605R2_2



13C-1,2,3,7,8-PeCDF



230605R2_2



DPE2



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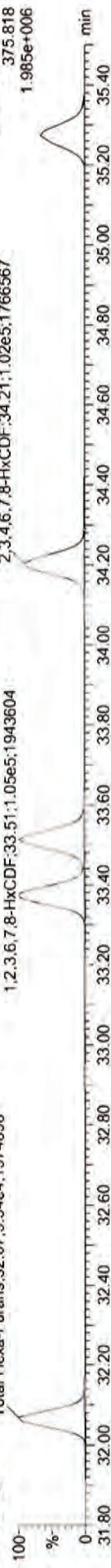
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Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

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1,2,3,4,7,8-HxCDF



230605R2_2



13C-1,2,3,4,7,8-HxCDF



230605R2_2



DPE3



Dataset: Untitled

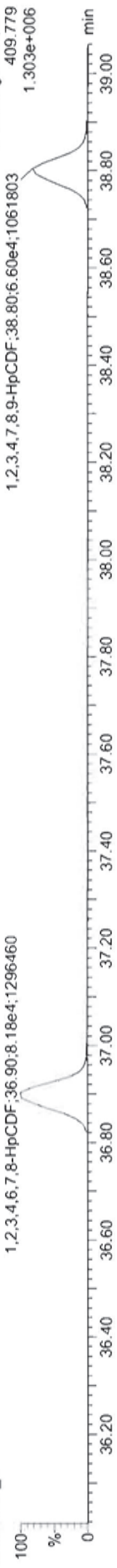
Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

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1,2,3,4,6,7,8-HpCDF



230605R2_2



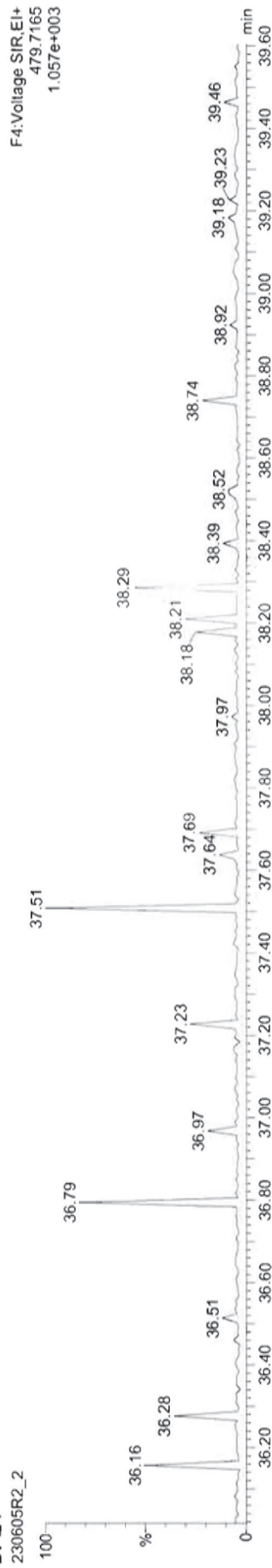
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230605R2_2



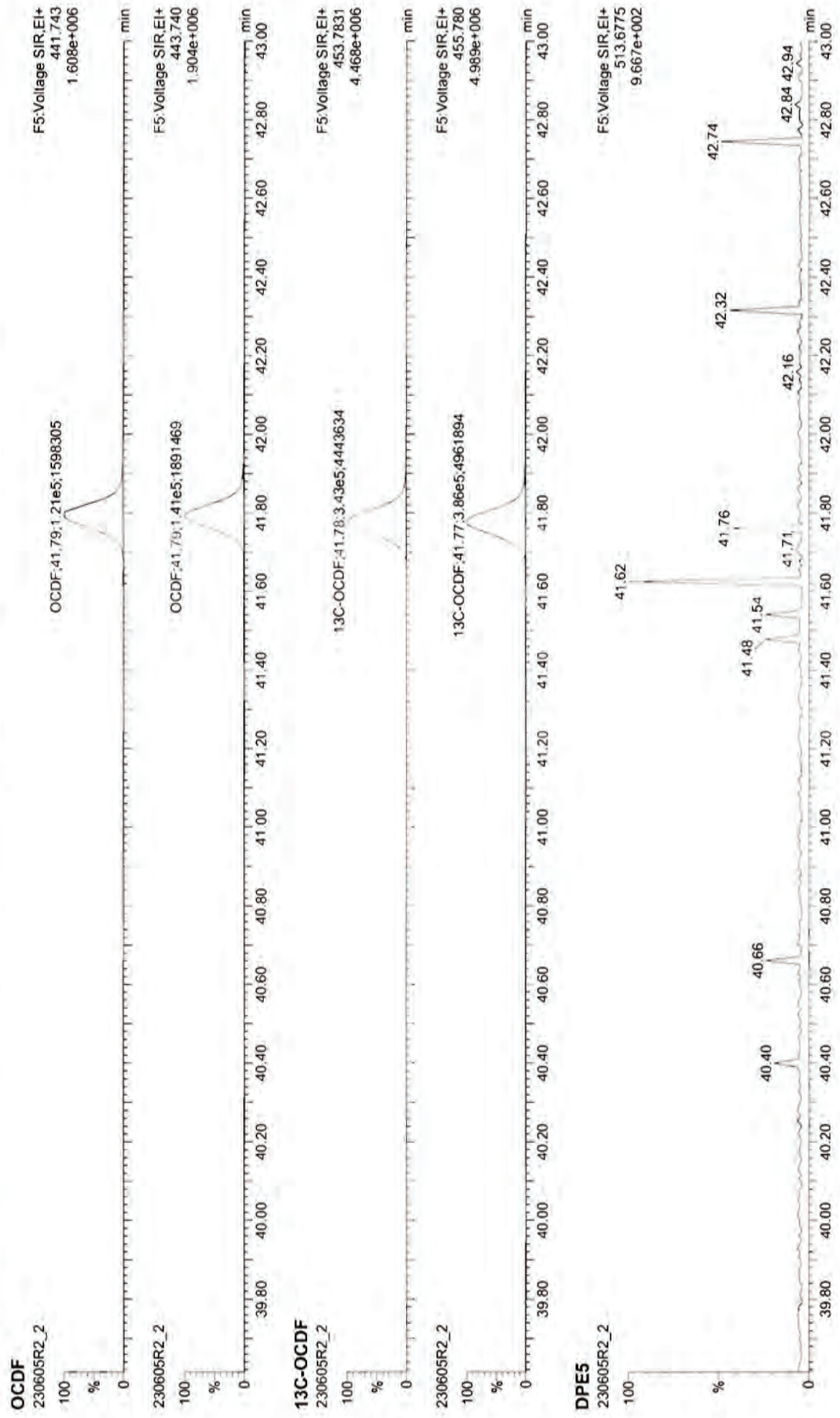
DPE4



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Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

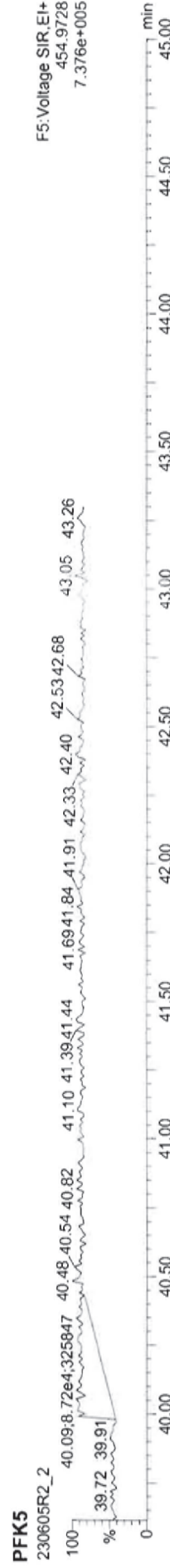
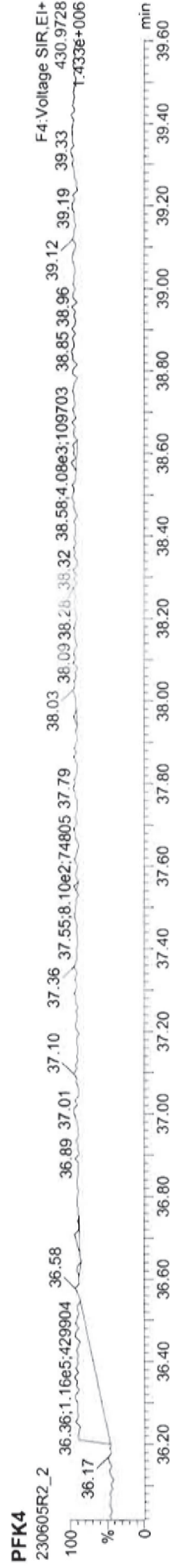
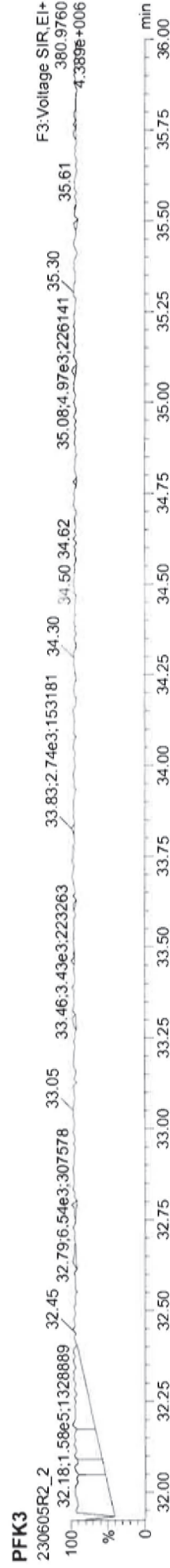
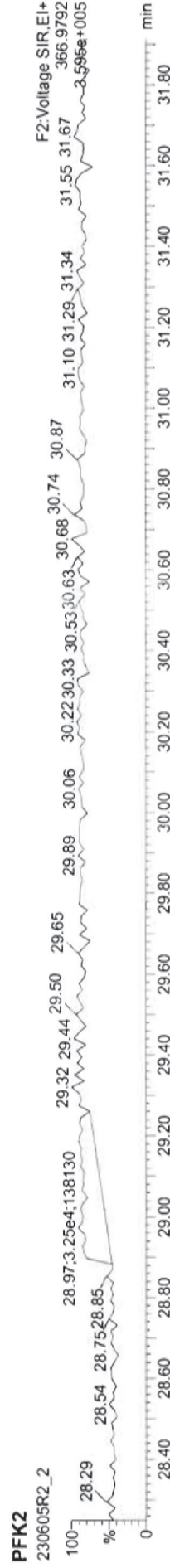
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Dataset: Untitled

Last Altered: Tuesday, June 06, 2023 14:28:33 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 14:33:19 Pacific Daylight Time

Name: 230605R2_2, Date: 06-Jun-2023, Time: 00:44:59, ID: ST230605R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



Resolution Check Report

MassLynx 4.1 SCN815

Printed: Tuesday, June 06, 2023 12:54:23 Pacific Daylight Time

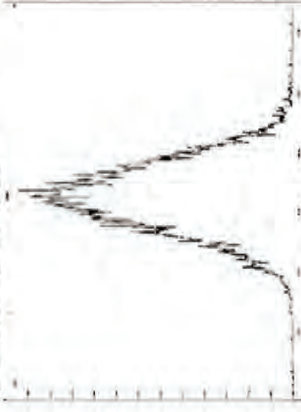
M 292.9824 R 11849



M 304.9824 R 12048



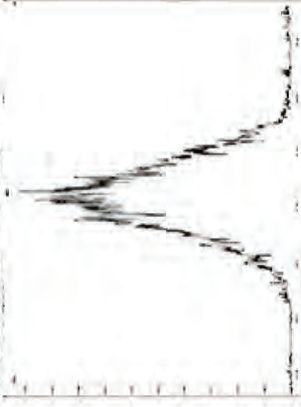
M 318.9792 R 12501



M 330.9792 R 12265



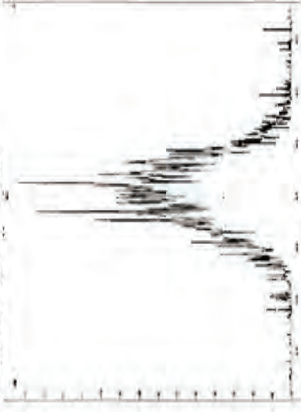
M 342.9792 R 12723



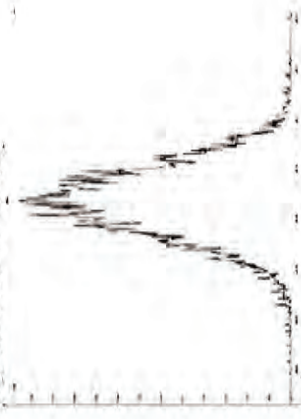
M 354.9792 R 13782



M 366.9792 R 13899



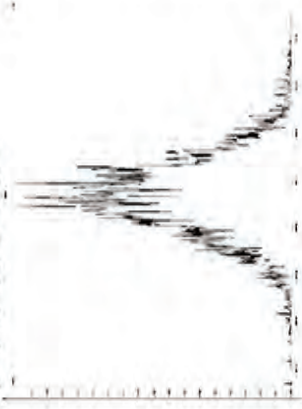
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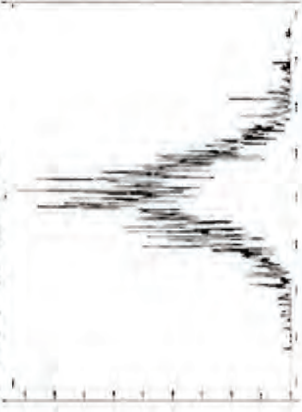
M 392.9760 R 12973



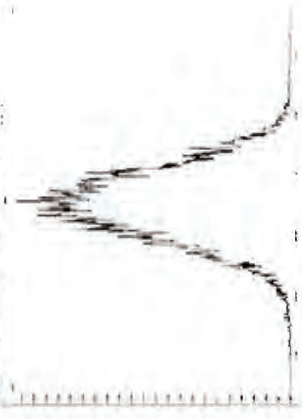
M 404.9760 R 12577



M 416.9760 R 13677



M 318.9792 R 12049



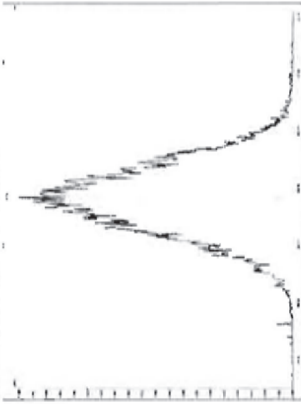
Resolution Check Report

MassLynx 4.1 SCN815

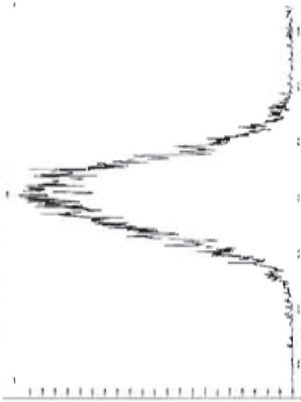
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Printed: Tuesday, June 06, 2023 12:54:23 Pacific Daylight Time

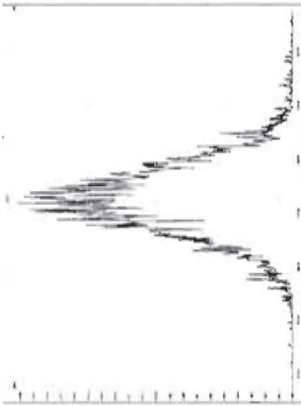
M 330.9792 R 11933



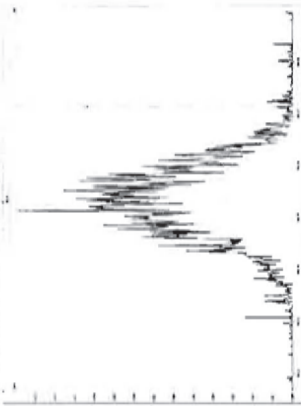
M 342.9792 R 12724



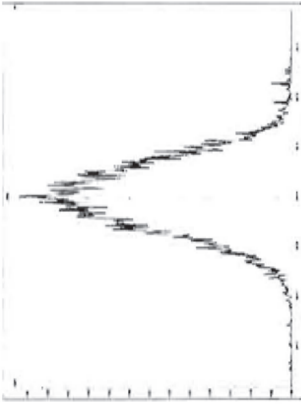
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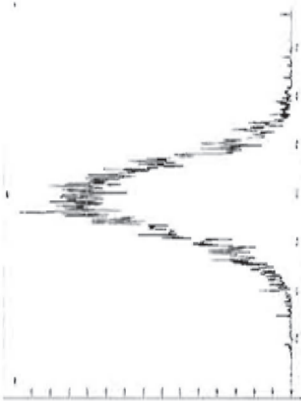
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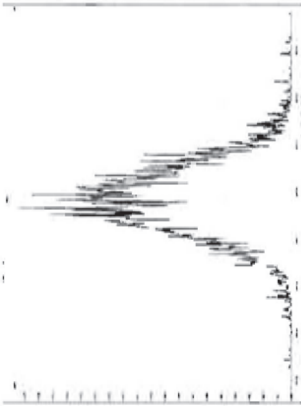
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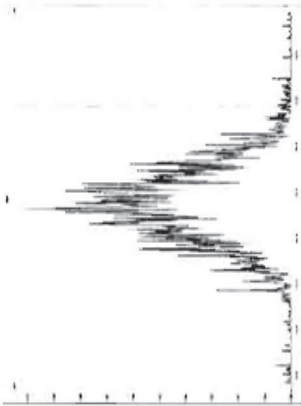
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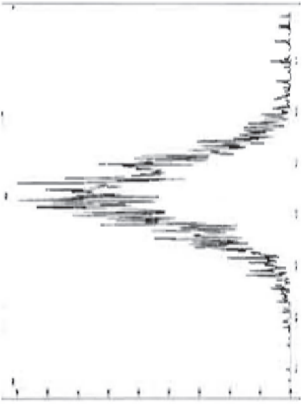
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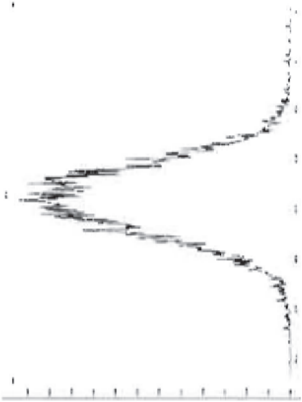
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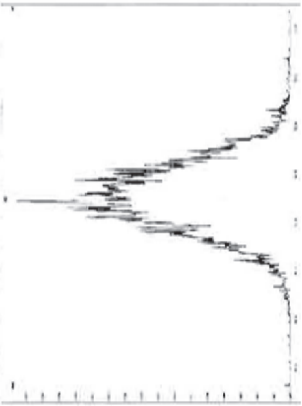
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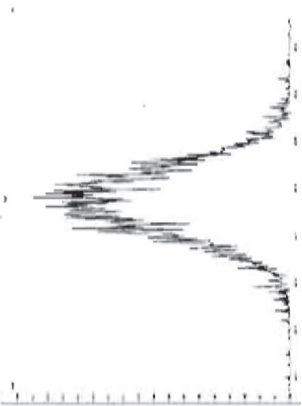
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M 392.9760 R 12660



M 404.9760 R 12853

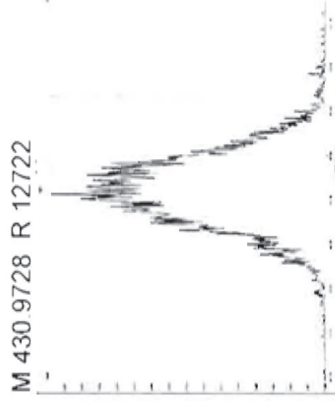
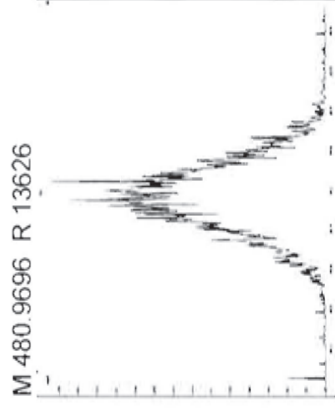
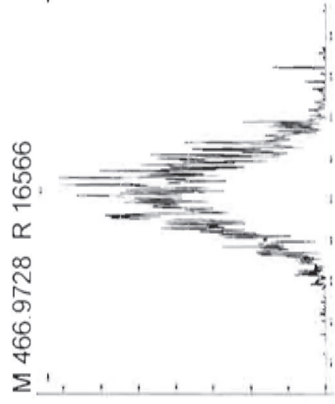
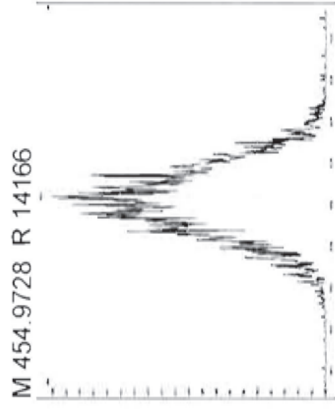
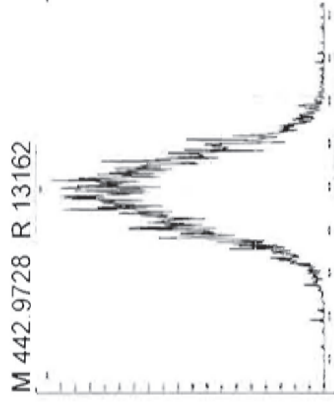
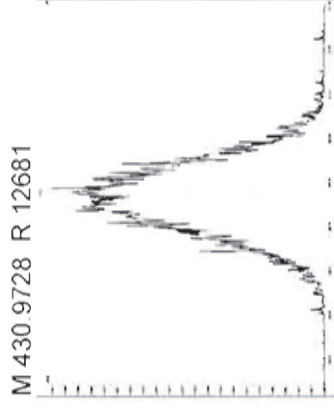
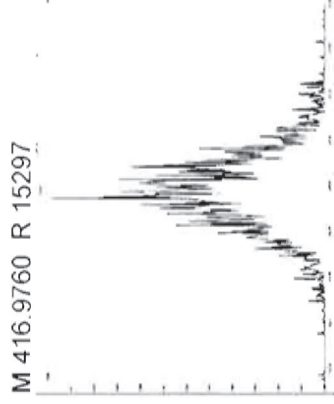
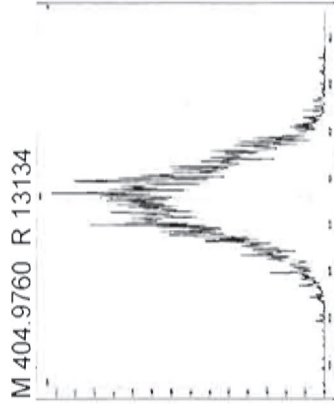
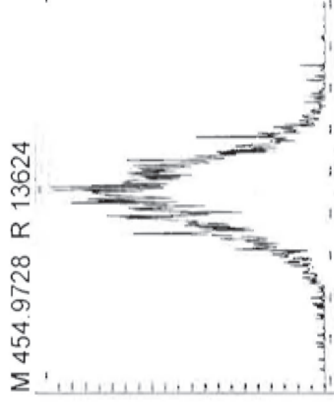
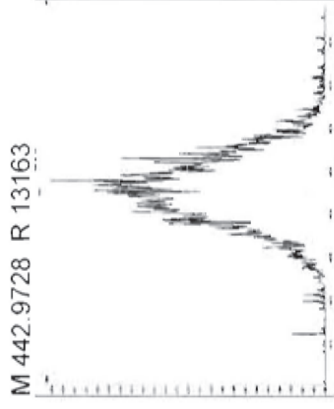
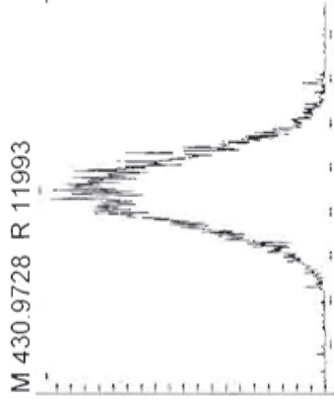
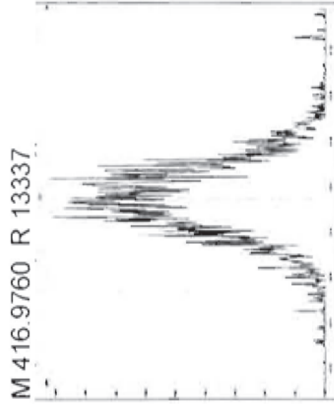


Resolution Check Report

MassLynx 4.1 SCN815

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Printed: Tuesday, June 06, 2023 12:54:23 Pacific Daylight Time

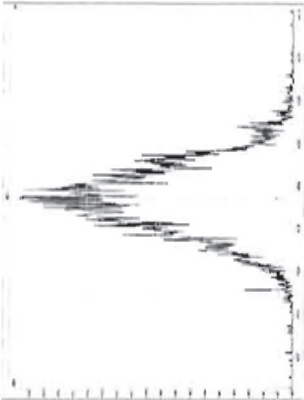


Resolution Check Report

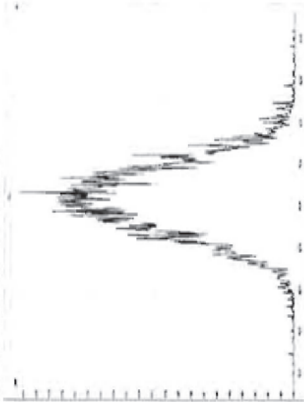
MassLynx 4.1 SCN815

Printed: Tuesday, June 06, 2023 12:54:23 Pacific Daylight Time

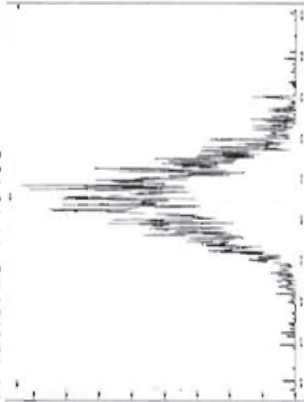
M 442.9728 R 13940



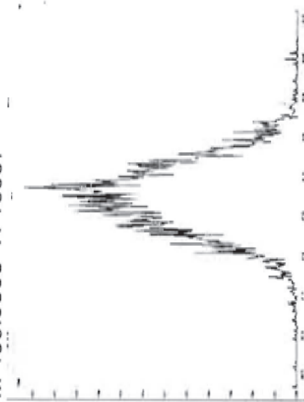
M 454.9728 R 13023



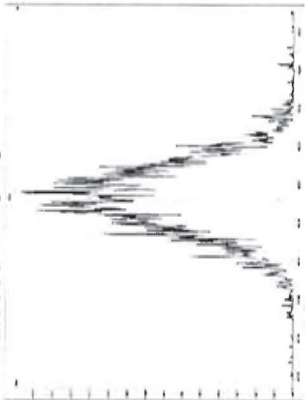
M 466.9728 R 15108



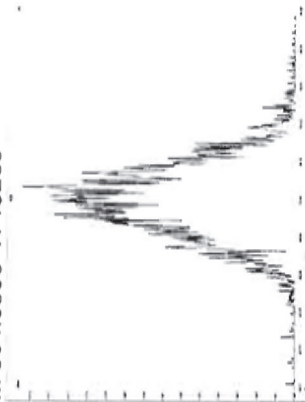
M 480.9696 R 13557



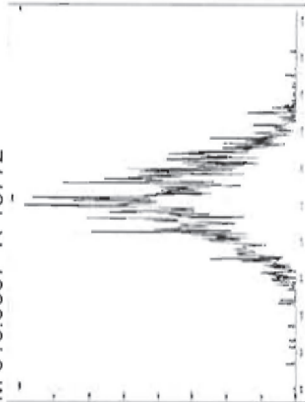
M 492.9696 R 13440



M 504.9696 R 15289



M 516.9697 R 15772



Dataset: I:\VG12.PRO\Results\230605R3\230605R3-2.qld

Last Altered: Tuesday, June 06, 2023 14:27:01 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 15:06:12 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\DIODIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	6.27e4	6.71e5	0.75	NO	0.906	26.77	26.76	NO	1.001	1.001	10.325	103	NO
2	2 1,2,3,7,8-PeCDD	2.15e5	4.95e5	0.62	NO	0.745	31.00	30.99	NO	1.001	1.000	58.366	117	NO
3	3 1,2,3,4,7,8-HxCDD	2.10e5	4.37e5	1.32	NO	0.837	34.31	34.31	NO	1.000	1.000	57.493	115	NO
4	4 1,2,3,6,7,8-HxCDD	2.12e5	4.64e5	1.29	NO	0.782	34.45	34.45	NO	1.001	1.001	58.372	117	NO
5	5 1,2,3,7,8,9-HxCDD	2.12e5	4.68e5	1.32	NO	0.780	34.74	34.74	NO	1.001	1.001	58.030	116	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.81e5	3.57e5	1.02	NO	0.903	38.10	38.10	NO	1.000	1.000	55.970	112	NO
7	7 OCDD	2.85e5	6.31e5	0.90	NO	0.782	41.47	41.47	NO	1.000	1.000	115.50	115	NO
8	8 2,3,7,8-TCDF	7.98e4	8.64e5	0.73	NO	0.852	26.15	26.15	NO	1.000	1.001	10.844	108	NO
9	9 1,2,3,7,8-PeCDF	3.45e5	7.72e5	1.68	NO	0.758	29.87	29.86	NO	1.001	1.000	59.042	118	NO
10	10 2,3,4,7,8-PeCDF	3.72e5	7.43e5	1.63	NO	0.834	30.83	30.83	NO	1.001	1.000	60.023	120	NO
11	11 1,2,3,4,7,8-HxCDF	2.50e5	5.87e5	1.20	NO	0.762	33.38	33.39	NO	1.000	1.001	55.924	112	NO
12	12 1,2,3,6,7,8-HxCDF	2.55e5	6.23e5	1.20	NO	0.726	33.52	33.53	NO	1.001	1.001	56.295	113	NO
13	13 2,3,4,6,7,8-HxCDF	2.41e5	5.70e5	1.17	NO	0.756	34.22	34.22	NO	1.001	1.001	55.976	112	NO
14	14 1,2,3,7,8,9-HxCDF	2.05e5	5.03e5	1.21	NO	0.749	35.27	35.28	NO	1.000	1.001	54.386	109	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.83e5	4.48e5	1.00	NO	0.754	36.91	36.90	NO	1.000	1.000	54.215	108	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.52e5	3.36e5	1.02	NO	0.792	38.81	38.81	NO	1.000	1.000	57.048	114	NO
17	17 OCDF	3.08e5	8.23e5	0.85	NO	0.669	41.80	41.82	NO	1.000	1.001	111.88	112	NO
18	18 13C-2,3,7,8-TCDD	6.71e5	5.97e5	0.78	NO	1.13	26.73	26.74	NO	1.026	1.026	99.855	99.9	NO
19	19 13C-1,2,3,7,8-PeCDD	4.95e5	5.97e5	0.62	NO	0.869	30.69	30.98	NO	1.178	1.189	95.370	95.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.37e5	5.89e5	1.27	NO	0.746	34.28	34.30	NO	1.013	1.014	99.601	99.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.64e5	5.89e5	1.25	NO	0.803	34.43	34.42	NO	1.018	1.018	98.154	98.2	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.68e5	5.89e5	1.22	NO	0.817	34.72	34.72	NO	1.026	1.026	97.216	97.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.57e5	5.89e5	1.07	NO	0.611	38.07	38.09	NO	1.125	1.126	99.324	99.3	NO
24	24 13C-OCDD	6.31e5	5.89e5	0.88	NO	0.545	41.38	41.45	NO	1.223	1.225	196.35	98.2	NO
25	25 13C-2,3,7,8-TCDF	8.64e5	8.85e5	0.79	NO	1.07	26.14	26.14	NO	1.003	1.003	90.979	91.0	NO
26	26 13C-1,2,3,7,8-PeCDF	7.72e5	8.85e5	1.60	NO	0.907	29.83	29.85	NO	1.145	1.145	96.240	96.2	NO
27	27 13C-2,3,4,7,8-PeCDF	7.43e5	8.85e5	1.60	NO	0.889	30.79	30.81	NO	1.181	1.182	94.439	94.4	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.87e5	5.89e5	0.50	NO	0.993	33.38	33.37	NO	0.987	0.986	100.36	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.23e5	5.89e5	0.50	NO	1.05	33.51	33.50	NO	0.990	0.990	100.46	100	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.70e5	5.89e5	0.50	NO	0.956	34.18	34.19	NO	1.010	1.011	101.24	101	NO

MAF0607.23

ATM 06/06/23

Dataset: I:\VG12_PROI\Results\230605R3\230605R3-2.qld

Last Altered: Tuesday, June 06, 2023 14:27:01 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 15:06:12 Pacific Daylight Time

Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
31	13C-1,2,3,7,8,9-HxCDF	5.03e5	5.89e5	0.49	NO	0.853	35.25	35.26	NO	1.042	1.042	100.15	100	NO
32	13C-1,2,3,4,6,7,8-HpCDF	4.48e5	5.89e5	0.41	NO	0.721	36.87	36.89	NO	1.090	1.091	105.47	105	NO
33	13C-1,2,3,4,7,8,9-HpCDF	3.36e5	5.89e5	0.41	NO	0.581	38.76	38.79	NO	1.146	1.147	98.126	98.1	NO
34	13C-OCDF	8.23e5	5.89e5	0.86	NO	0.718	41.77	41.79	NO	1.235	1.235	194.64	97.3	NO
35	37Cl-2,3,7,8-TCDD	6.02e4	5.97e5			0.980	26.74	26.76	NO	1.026	1.027	10.290	103	NO
36	13C-1,2,3,4-TCDD	5.97e5	5.97e5	0.77	NO	1.00	26.11	26.06	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	8.85e5	8.85e5	0.80	NO	1.00	24.81	24.78	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	5.89e5	5.89e5	0.50	NO	1.00	33.84	33.83	NO	1.000	1.000	100.00	100	YES OK

Dataset: Untitled

Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
Printed: Wednesday, June 07, 2023 8:12:59 AM Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\DIODIXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	230605R3_1	SOLVENT BLANK	06-Jun-23	12:54:29
2	230605R3_2	ST230605R3_1 1613 CS3 23E1003	06-Jun-23	13:39:06
3	230605R3_3	(A)		
4	230605R3_4	SOLVENT BLANK	06-Jun-23	14:46:12
5	230605R3_5	2304022-13RE1 PDI-201SB-25-26-230329 17...	06-Jun-23	15:31:30
6	230605R3_6	2304079-12 PDI-223RAB-22-23-230404 13.93	06-Jun-23	16:16:10
7	230605R3_7	2304130-03 PDI-216RAB-27-28-230413 14.6	06-Jun-23	17:01:11
8	230605R3_8	2304130-04 PDI-216RAB-28-29-230413 13.64	06-Jun-23	17:46:10
9	230605R3_9	2305137-01 WWTPInfluent 868 Bld 0.1	06-Jun-23	18:31:13
10	230605R3_10	2305137-02 547 Aeration Sludge 0.1	06-Jun-23	19:16:14
11	230605R3_11	2305023-02RE1@10X PS63-SS-02 23.46	06-Jun-23	20:01:16
12	230605R3_12	2305123-02 RSW-001 1.02831	06-Jun-23	20:46:16
13	230605R3_13	2305123-01 EFF-001 1.02989	06-Jun-23	21:31:24
14	230605R3_14	2305086-01 2305095-01Q Source #1 1.03828	06-Jun-23	22:16:27
15	230605R3_15	2305076-01 ZB13843-YC INF COMP 0.99209	06-Jun-23	23:01:36
16	230605R3_16	2305073-01 ZB13844-YC EFF COMP 1.0264	06-Jun-23	23:46:38
17	230605R3_17	2305056-01 Wickum Weld Grab 0.98914	07-Jun-23	00:31:47

(A) Pause, RI A7 M 06/07/23

Resolution Check Report

MassLynx 4.1 SCN815

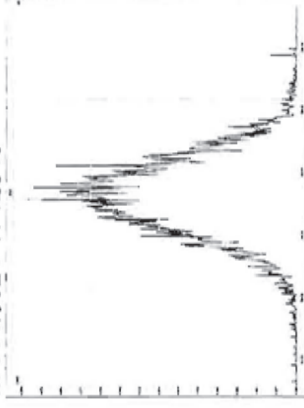
Page 1 of 4

Printed: Tuesday, June 06, 2023 12:54:23 Pacific Daylight Time

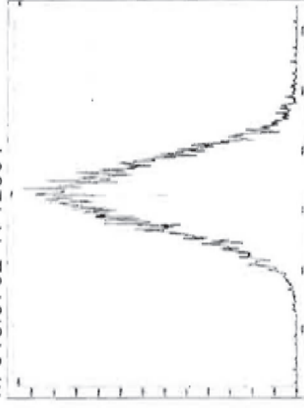
M 292.9824 R 11849



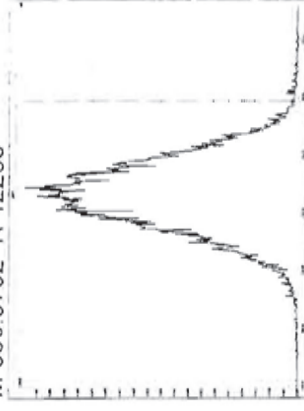
M 304.9824 R 12048



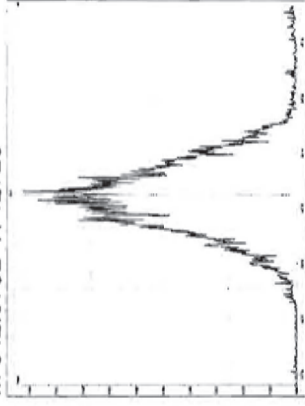
M 318.9792 R 12501



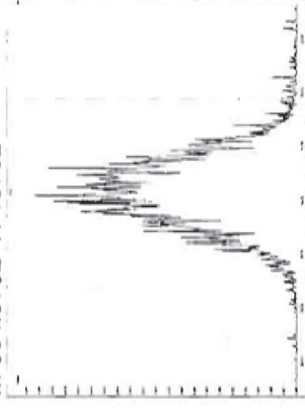
M 330.9792 R 12265



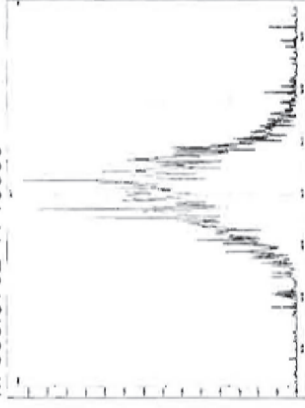
M 342.9792 R 12723



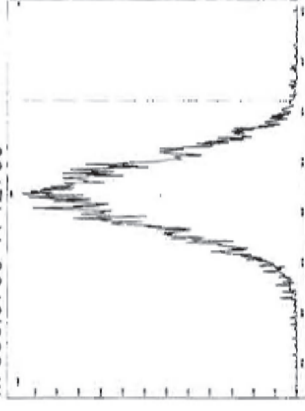
M 354.9792 R 13782



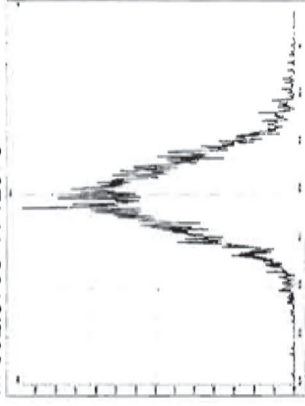
M 366.9792 R 13899



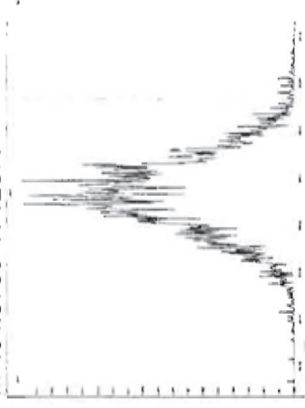
M 380.9760 R 12759



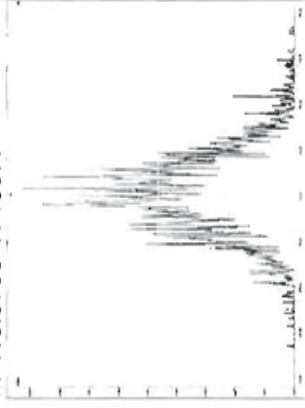
M 392.9760 R 12973



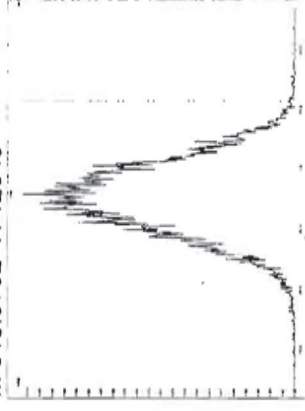
M 404.9760 R 12577



M 416.9760 R 13677



M 318.9792 R 12049



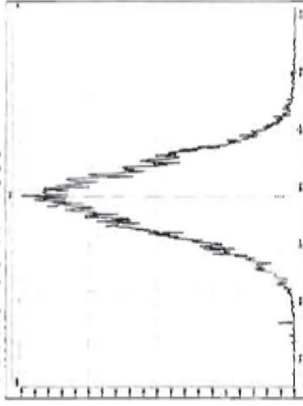
Resolution Check Report

MassLynx 4.1 SCN815

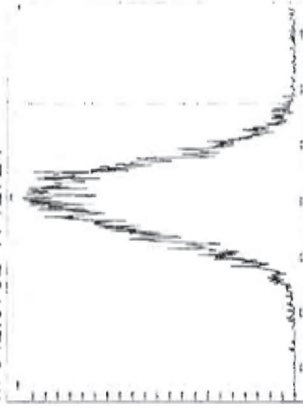
Page 2 of 4

Printed: Tuesday, June 06, 2023 12:54:23 Pacific Daylight Time

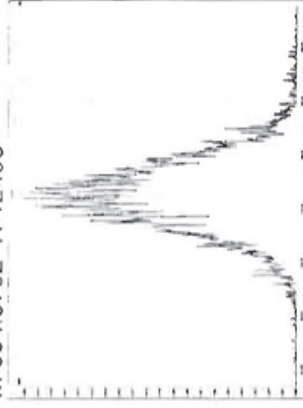
M 330.9792 R 11933



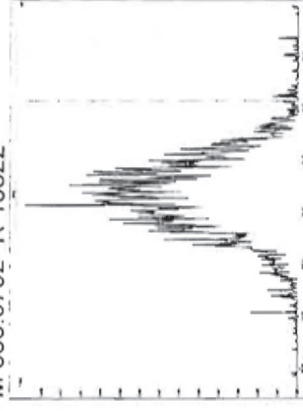
M 342.9792 R 12724



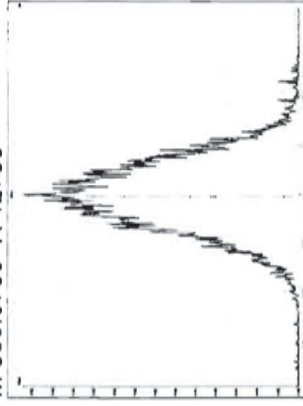
M 354.9792 R 12496



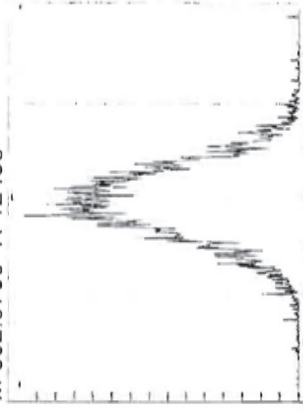
M 366.9792 R 13822



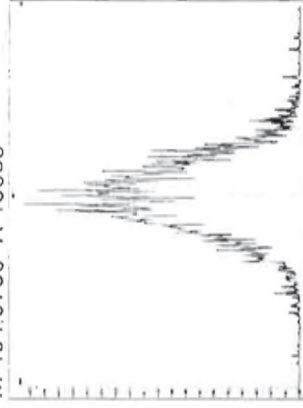
M 380.9760 R 12766



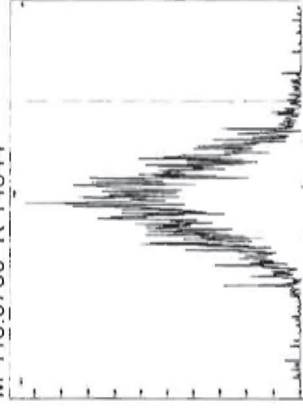
M 392.9760 R 12438



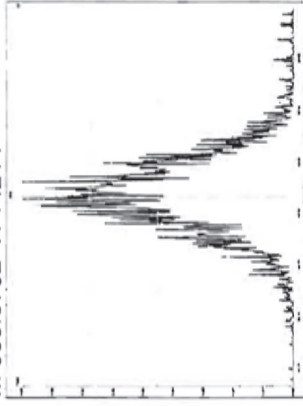
M 404.9760 R 13588



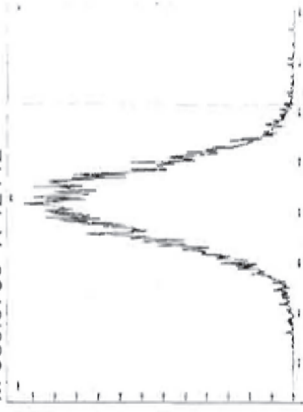
M 416.9760 R 14844



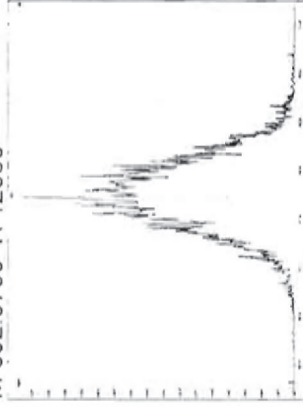
M 366.9792 R 14214



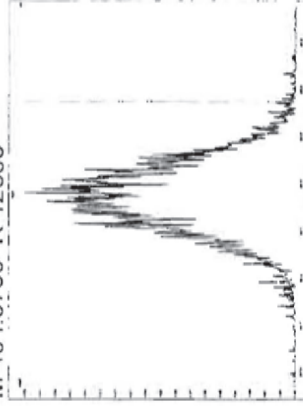
M 380.9760 R 12112



M 392.9760 R 12660



M 404.9760 R 12853



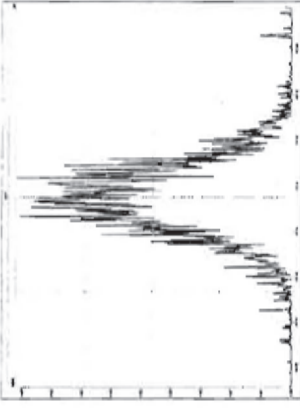
Resolution Check Report

MassLynx 4.1 SCN815

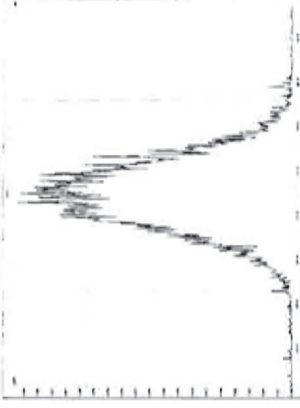
Page 3 of 4

Printed: Tuesday, June 06, 2023 12:54:23 Pacific Daylight Time

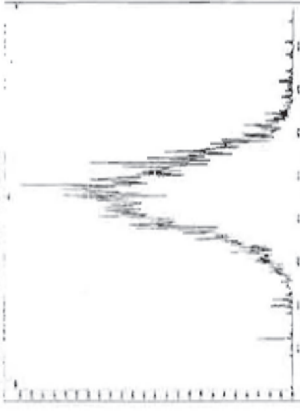
M 416.9760 R 13337



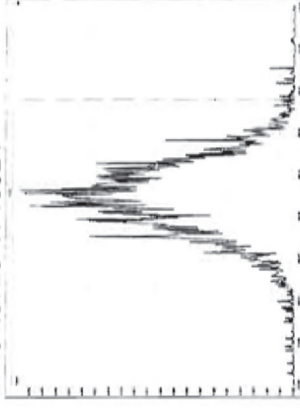
M 430.9728 R 11993



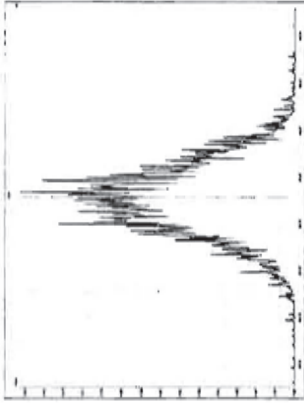
M 442.9728 R 13163



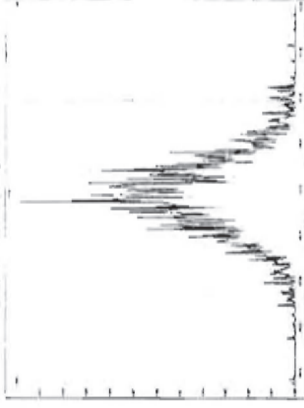
M 454.9728 R 13624



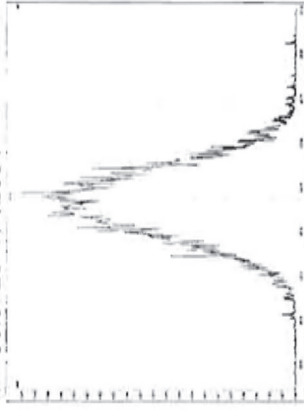
M 404.9760 R 13134



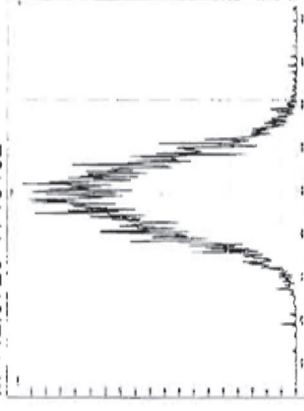
M 416.9760 R 15297



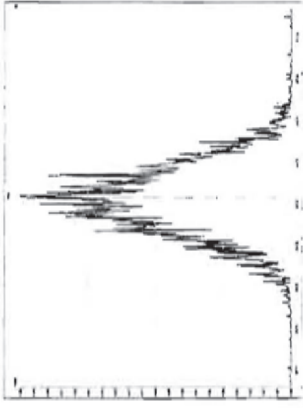
M 430.9728 R 12681



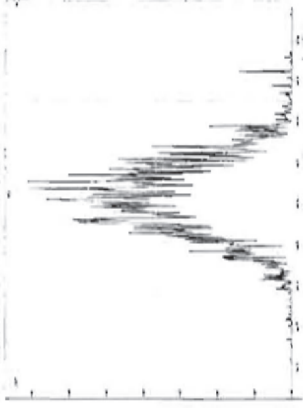
M 442.9728 R 13162



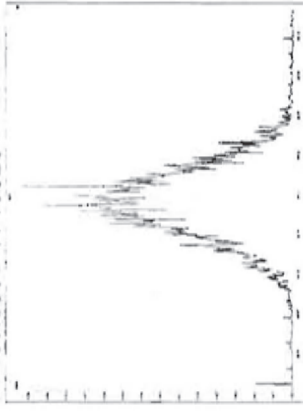
M 454.9728 R 14166



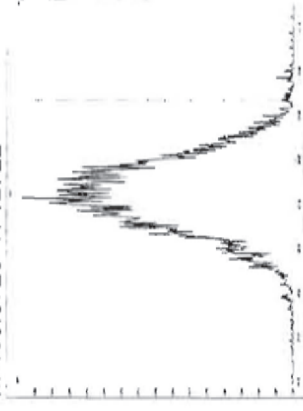
M 466.9728 R 16566



M 480.9696 R 13626



M 430.9728 R 12722



Resolution Check Report

MassLynx 4.1 SCN815

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Printed: Tuesday, June 06, 2023 12:54:23 Pacific Daylight Time

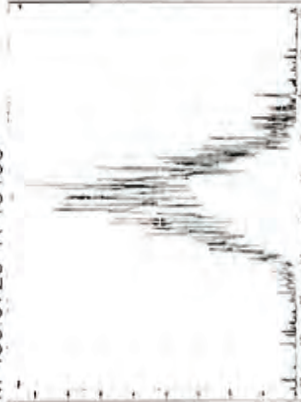
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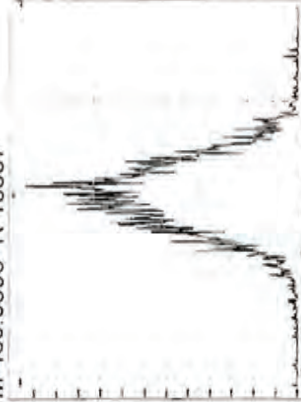
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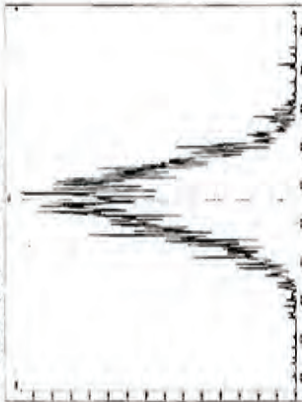
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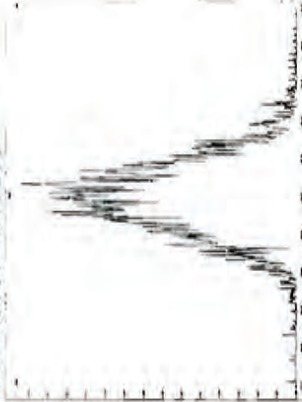
M 480.9696 R 13557



M 492.9696 R 13440



M 504.9696 R 15289



M 516.9697 R 15772



Dataset: Untitled

Last Altered: Tuesday, June 06, 2023 15:05:26 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 15:05:48 Pacific Daylight Time

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

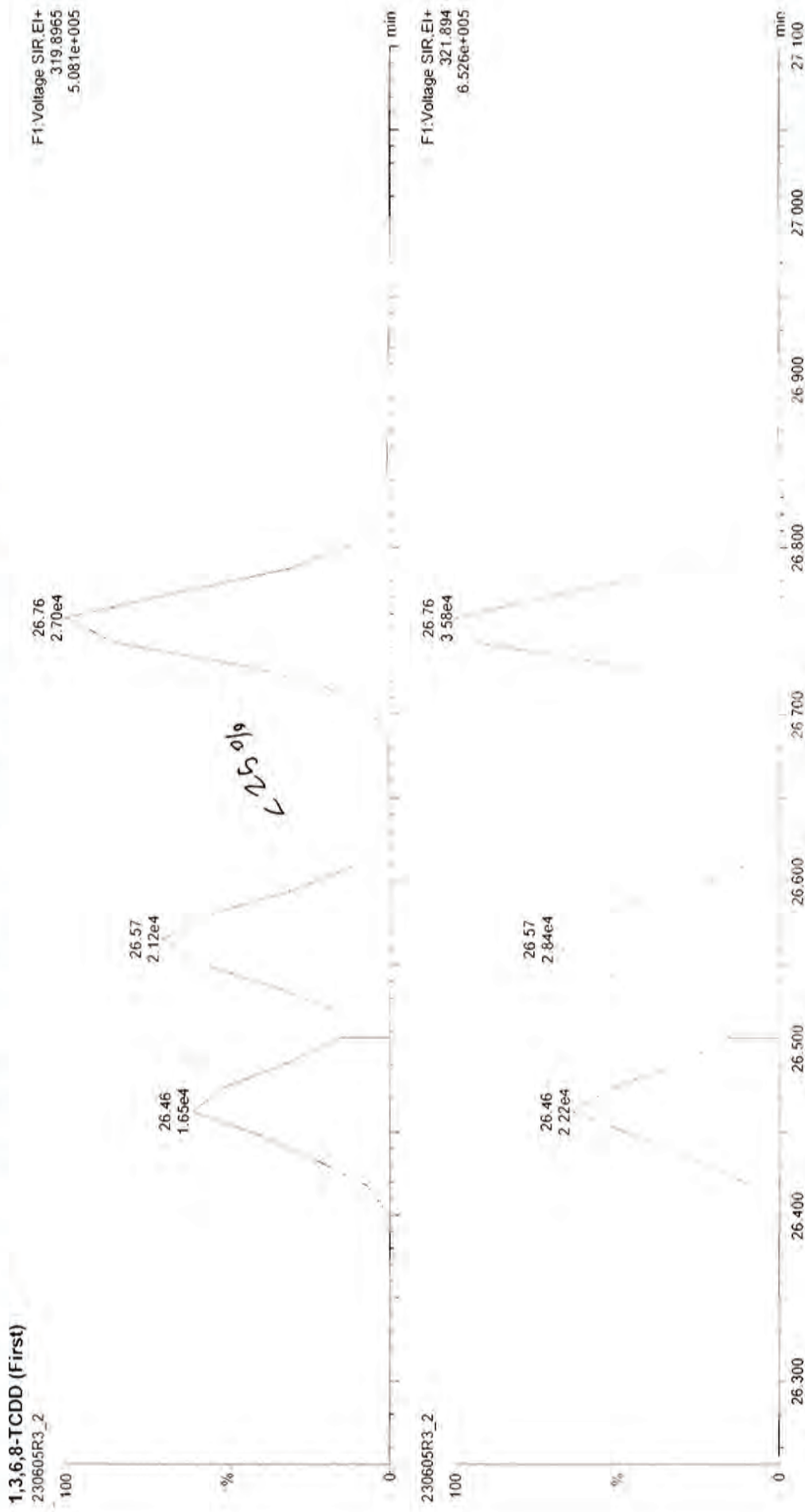
#	Name	RT
1	1,3,6,8-TCDD (First)	23.46
2	1,2,8,9-TCDD (Last)	27.56
3	1,2,4,7,9-PeCDD (First)	28.93
4	1,2,3,8,9-PeCDD (Last)	31.32
5	1,2,4,6,7,9-HxCDD (First)	32.60
6	1,2,3,7,8,9-HxCDD (Last)	34.74
7	1,2,3,4,6,7,9-HpCDD (First)	37.22
8	1,2,3,4,6,7,8-HpCDD (Last)	38.10
9	1,3,6,8-TCDF (First)	21.44
10	1,2,8,9-TCDF (Last)	27.85
11	1,3,4,6,8-PeCDF (First)	27.44
12	1,2,3,8,9-PeCDF (Last)	31.69
13	1,2,3,4,6,8-HxCDF (First)	32.08
14	1,2,3,7,8,9-HxCDF (Last)	35.28
15	1,2,3,4,6,7,8-HpCDF (First)	36.90
16	1,2,3,4,7,8,9-HpCDF (Last)	38.80

Dataset: Untitled

Last Altered: Tuesday, June 06, 2023 15:05:26 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 15:05:48 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSPM.mdb 24 May 2023 17:45:01
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



Dataset: Untitled

Last Altered: Tuesday, June 06, 2023 15:05:26 Pacific Daylight Time
Printed: Tuesday, June 06, 2023 15:05:48 Pacific Daylight Time

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1,3,6,8-TCDF (First)

230605R3_2

F1: Voltage SIR.EI+
303.9016
5.687e+005

26.15
3.37e4

26.05
2.86e4

CS³019

230605R3_2

F1: Voltage SIR.EI+
305.899
7.782e+005

26.15
4.66e4

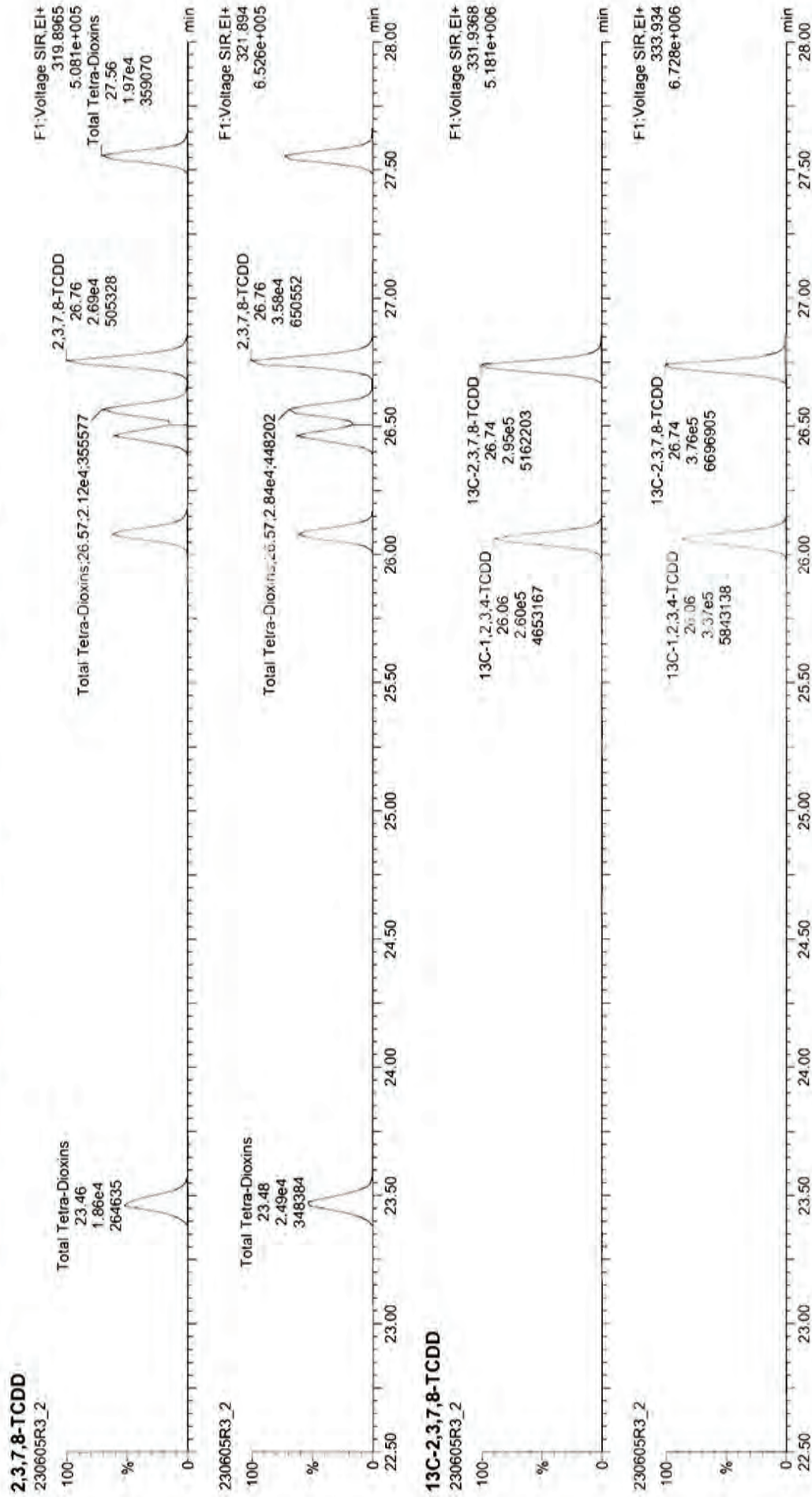
26.03
3.96e4

min
26.400

Dataset: Untitled

Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
 Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rtrt-6-1-23.mdb 01 Jun 2023 15:09:04
 Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\EDH\1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31
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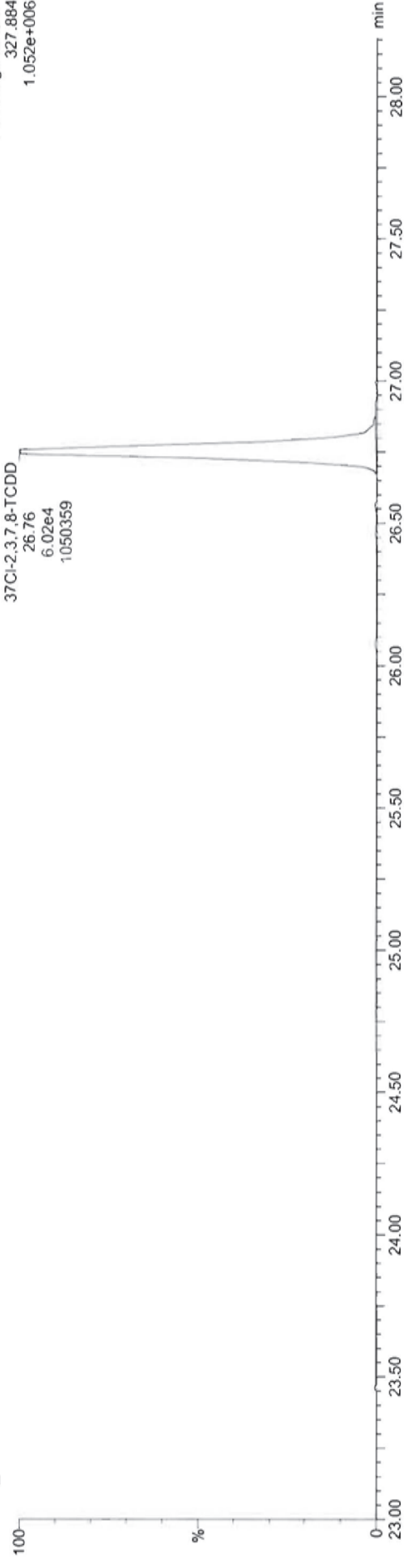
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Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

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37Cl-2,3,7,8-TCDD

230605R3_2

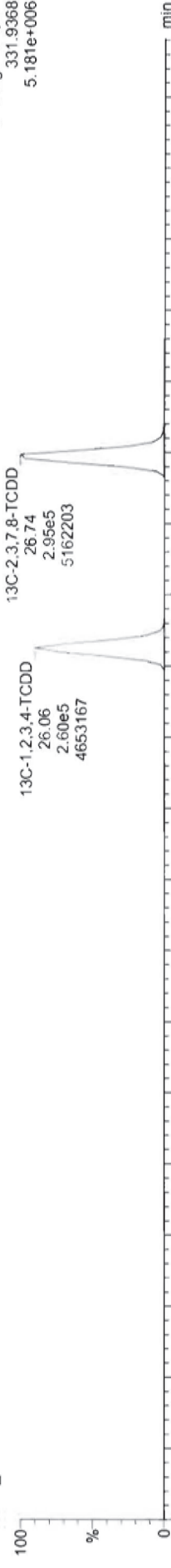
F1: Voltage SIR, EI+
327.884
1.052e+006



13C-1,2,3,4-TCDD

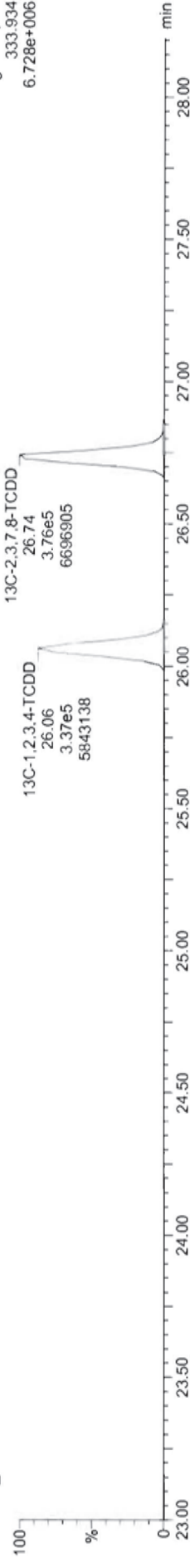
230605R3_2

F1: Voltage SIR, EI+
331.9368
5.181e+006



230605R3_2

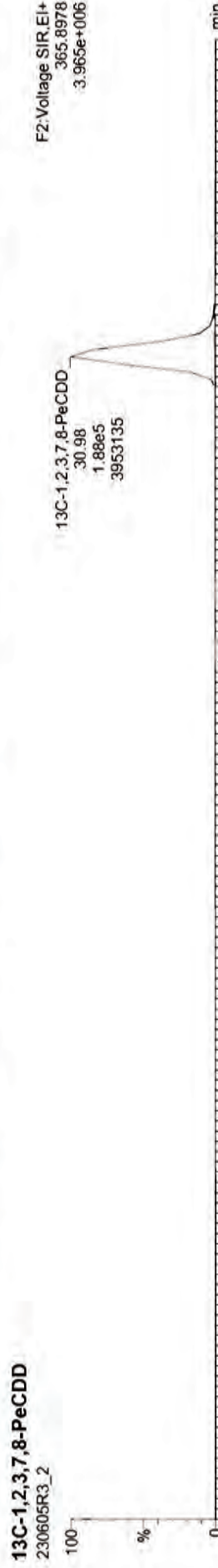
F1: Voltage SIR, EI+
333.934
6.728e+006



Dataset: Untitled

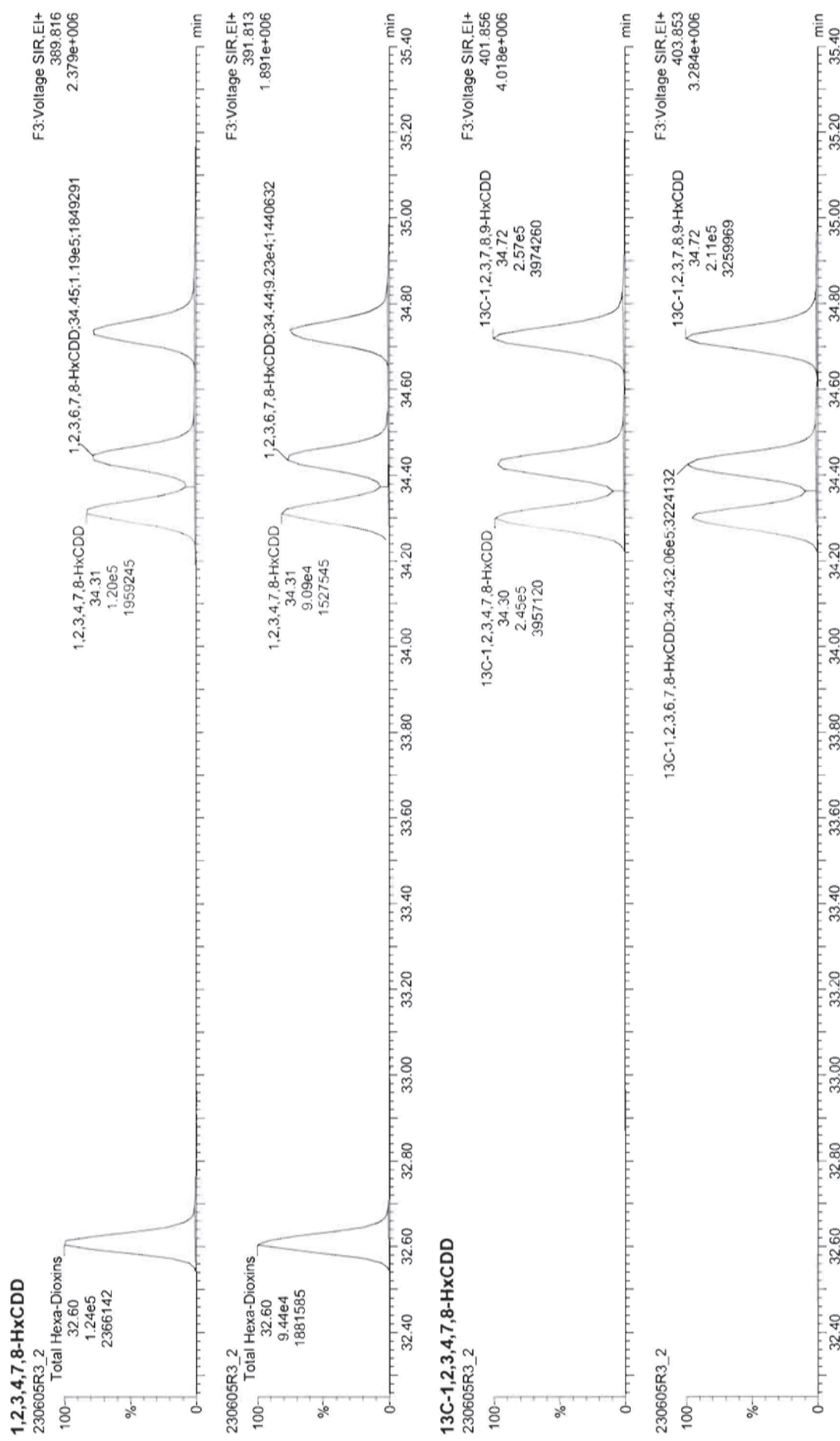
Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
 Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

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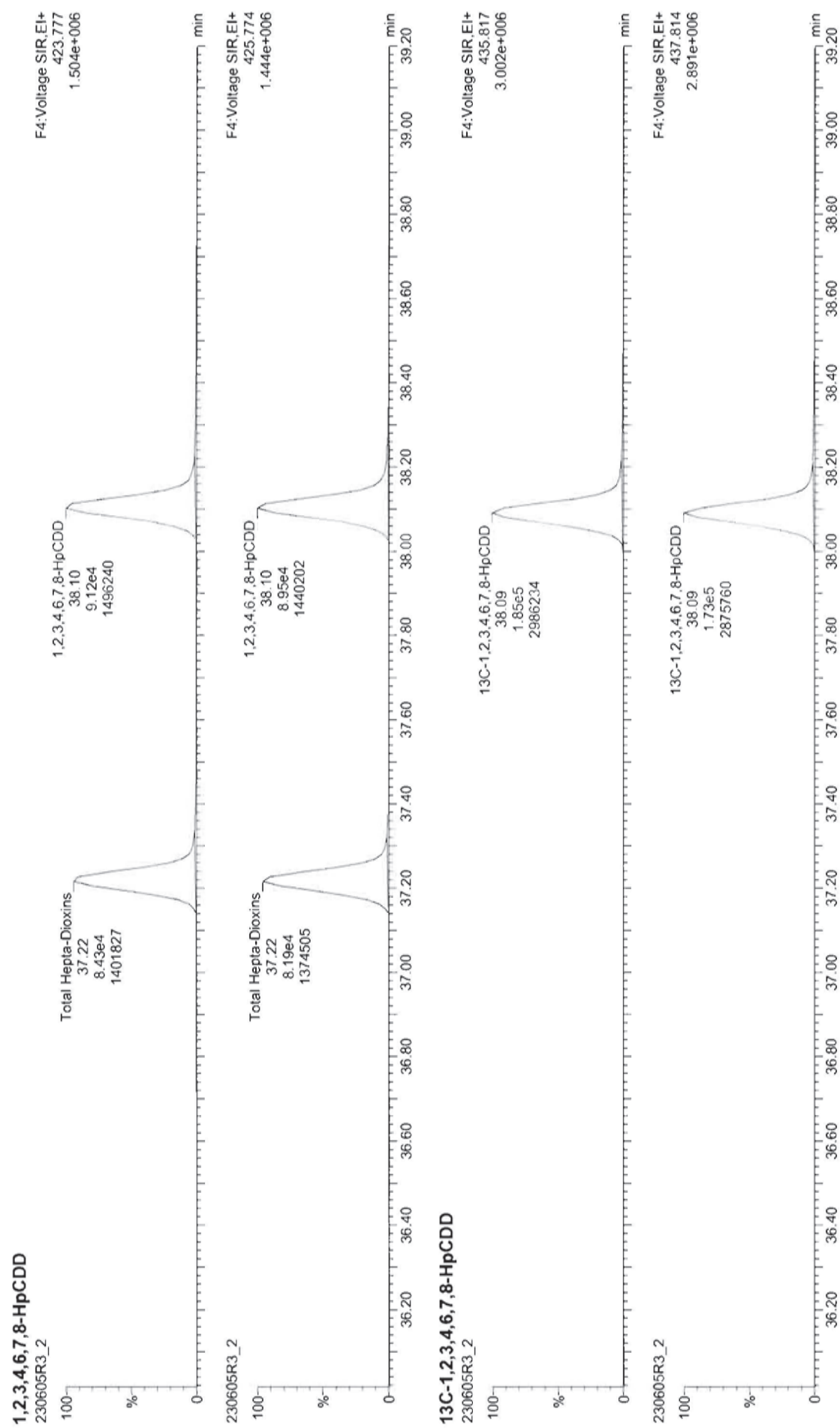


Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

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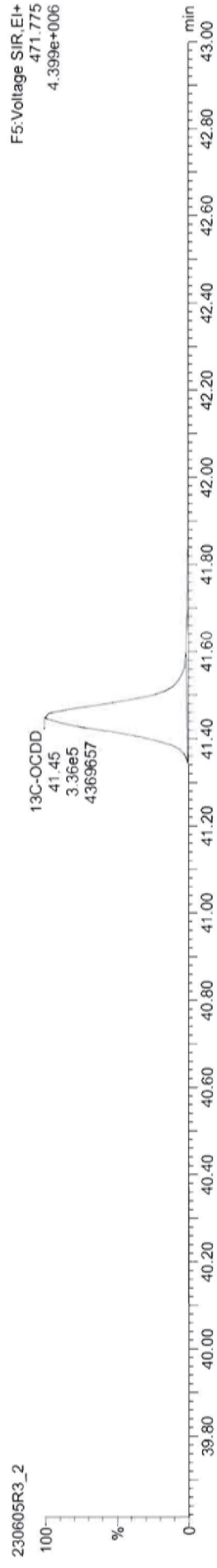
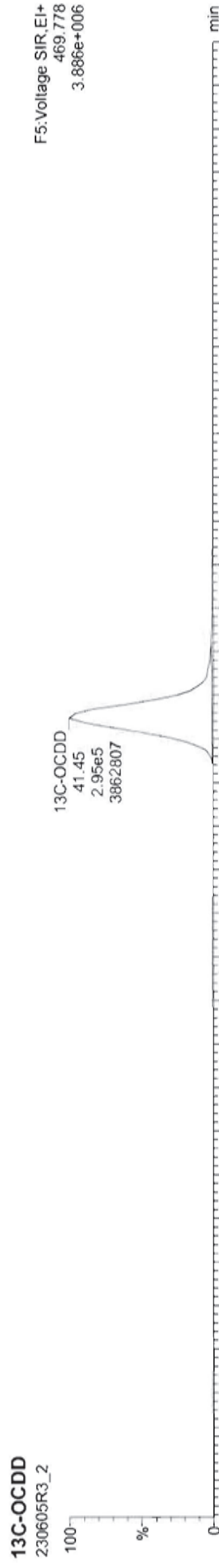
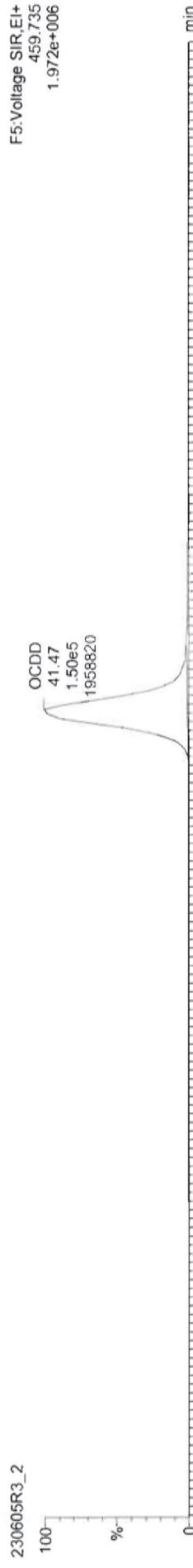
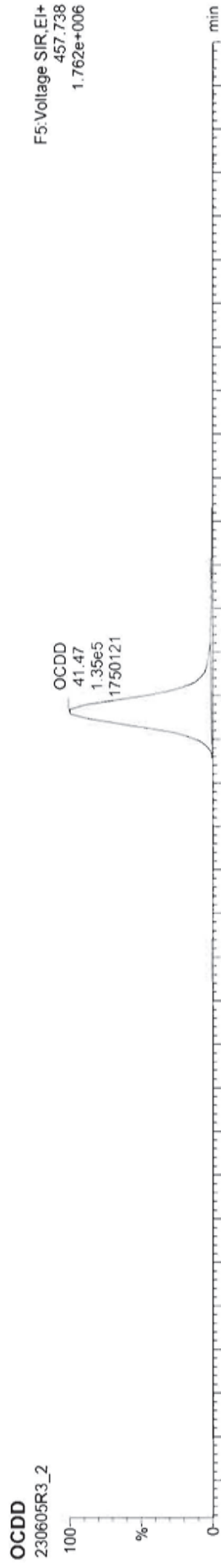
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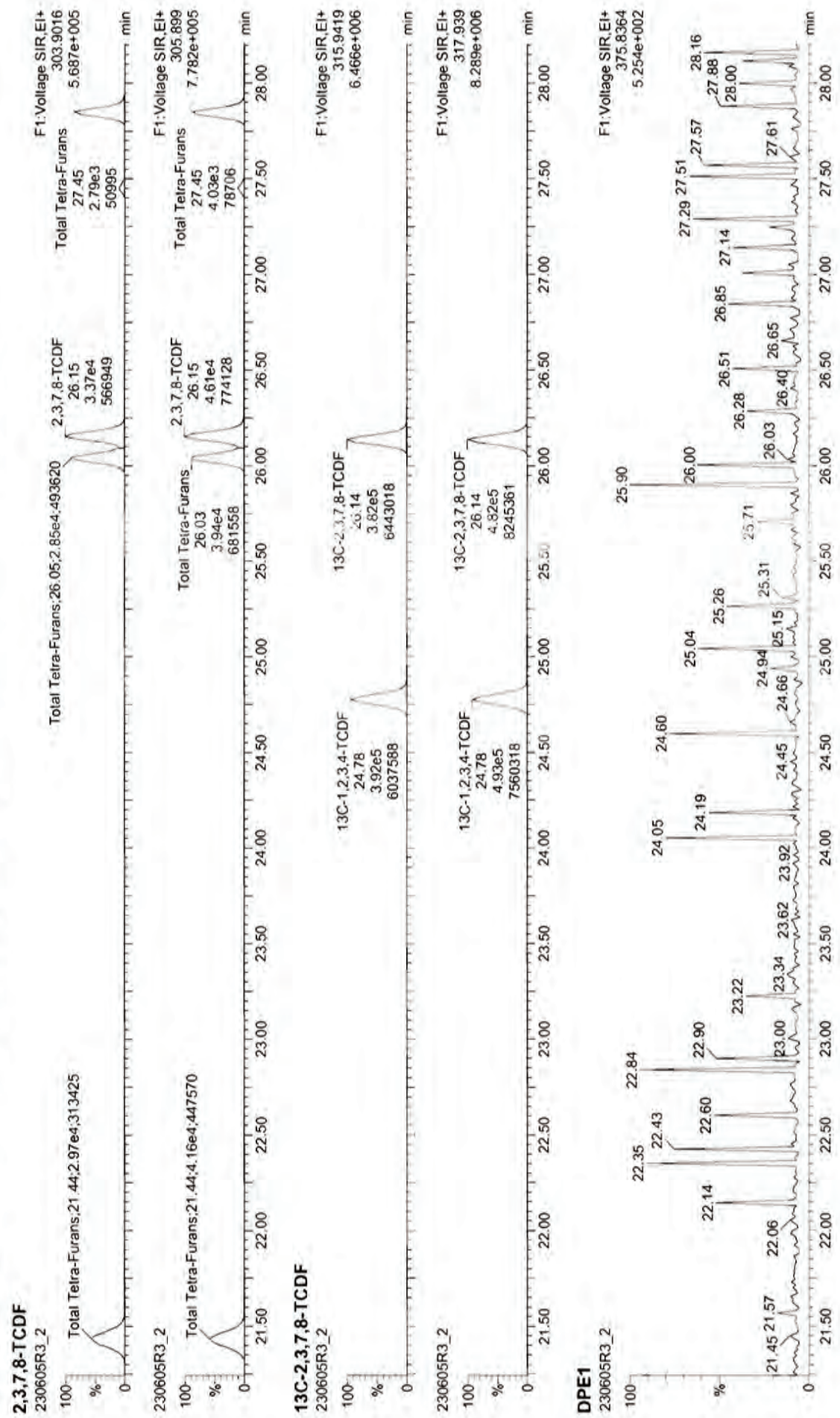
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Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



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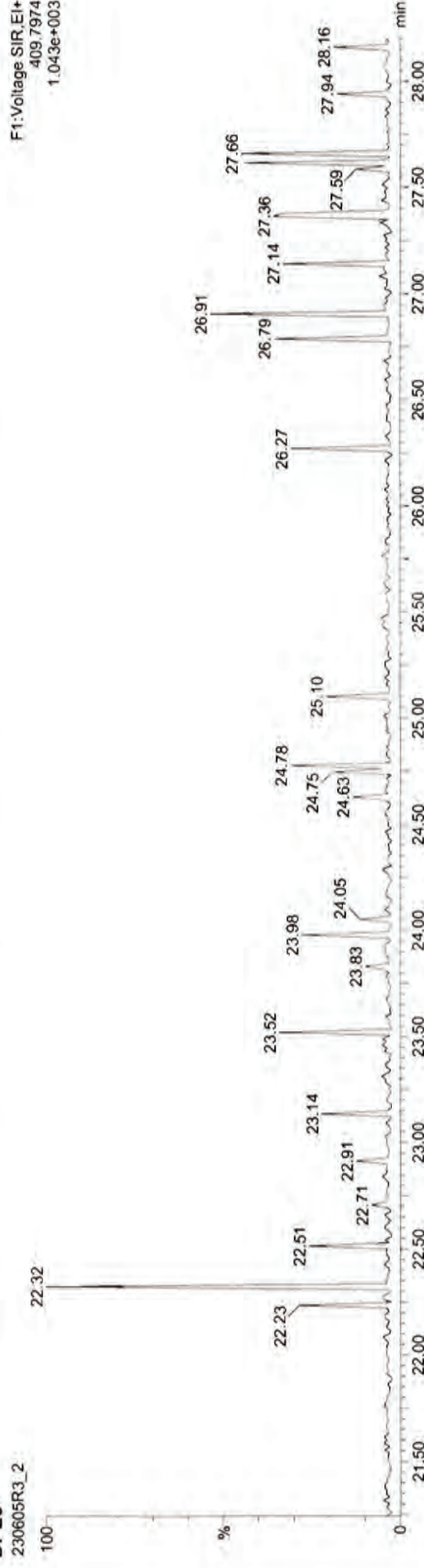
1st Func. Penta-Furans



230605R3_2



DPE6



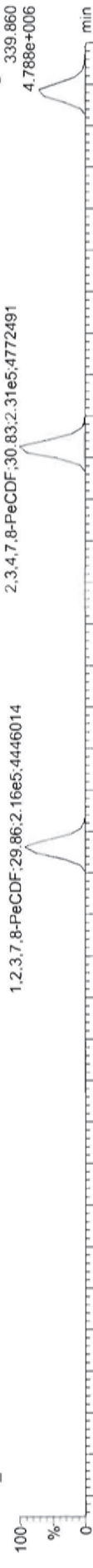
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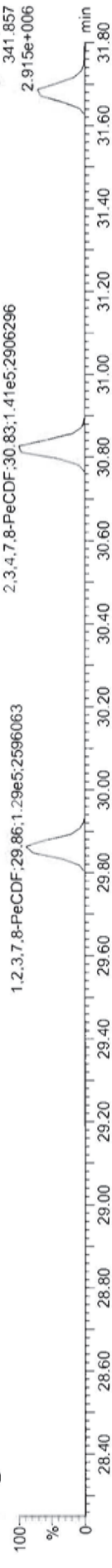
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1,2,3,7,8-PeCDF

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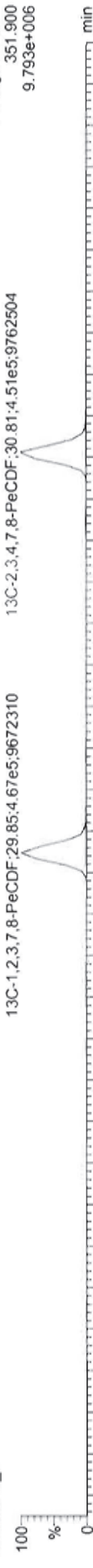


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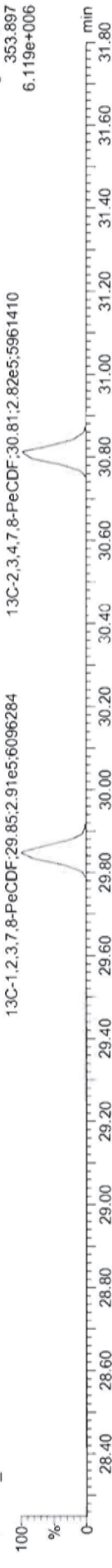


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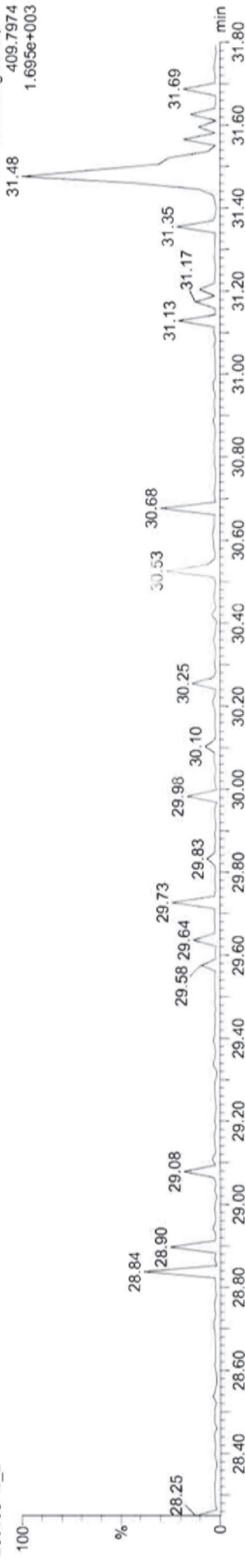


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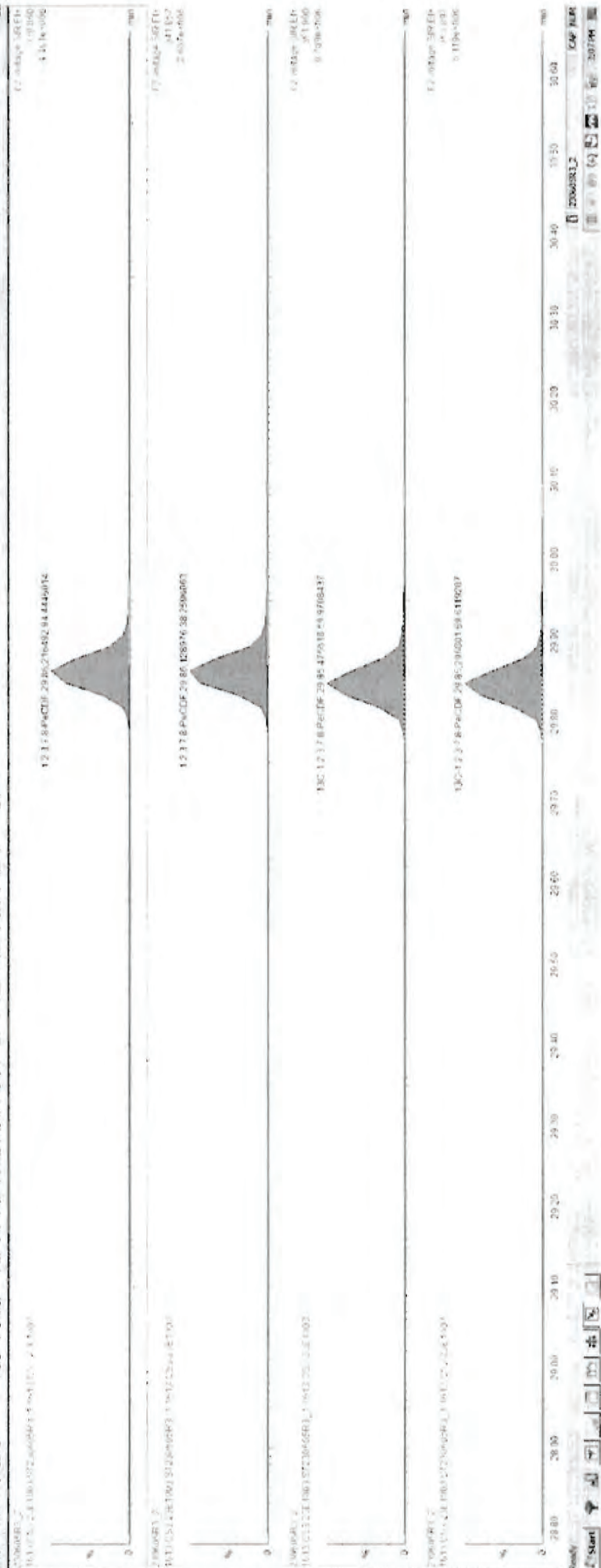


DPE2

230605R3_2



#	Name	Eq. Resp.	Pres. Rn.	BA	AV	RSE	Pres. Rn.	RT	RT Avg	Pres. Rn.	Comp. %	RT	STW est.
1	112.3.7.8-TCDD	0.72e4	0.72	0.75	60	0.5000	20.77	20.76	60	1.001	10.3	103	163
2	112.3.7.8-PCDD	0.71e4	0.68	0.68	60	0.5000	20.77	20.76	60	1.001	1.000	55.4	117
3	112.3.7.8-PCDF	2.10e4	4.80e4	0.68	0.68	0.2447	31.60	30.96	60	1.001	1.000	5.4	115
4	112.3.7.8-HePCDD	2.10e4	4.80e4	1.24	1.32	60	0.0304	34.33	34.33	1.001	1.000	5.4	115
5	112.3.7.8-HePCDF	2.12e4	4.80e4	1.24	1.28	60	0.1021	34.49	34.46	1.001	1.001	52.4	117
6	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.32	60	0.2506	34.72	34.74	1.001	1.001	50.8	116
7	112.3.7.8-HePCDF	2.12e4	4.80e4	1.24	1.40	60	0.0012	35.85	29.16	1.000	1.000	50.6	112
8	112.3.7.8-HePCDD	2.12e4	4.80e4	0.68	0.68	0.2518	41.47	41.47	60	1.000	1.000	112	115
9	112.3.7.8-HePCDF	2.12e4	4.80e4	0.68	0.68	0.0014	29.14	29.14	60	1.000	1.001	11.8	116
10	112.3.7.8-HePCDD	2.12e4	4.80e4	0.68	0.68	0.2525	29.87	29.65	60	1.001	1.000	55.6	118
11	112.3.7.8-HePCDF	2.12e4	4.80e4	1.00	1.00	0.2543	32.84	32.84	60	1.001	1.000	56.6	120
12	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1522	37.38	33.99	60	1.001	1.001	53.8	112
13	112.3.7.8-HePCDF	2.12e4	4.80e4	1.24	1.28	0.2794	33.53	33.53	60	1.001	1.001	58.3	113
14	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
15	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
16	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
17	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
18	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
19	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
20	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
21	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
22	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
23	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
24	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
25	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
26	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
27	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
28	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
29	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
30	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
31	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
32	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
33	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
34	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
35	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
36	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
37	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
38	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
39	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
40	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
41	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
42	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
43	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
44	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
45	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
46	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
47	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
48	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
49	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
50	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
51	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
52	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
53	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
54	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
55	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
56	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
57	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
58	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
59	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
60	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
61	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
62	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
63	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
64	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
65	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
66	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
67	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
68	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
69	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
70	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
71	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
72	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
73	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
74	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
75	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
76	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
77	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
78	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
79	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
80	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
81	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
82	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
83	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
84	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
85	112.3.7.8-HePCDD	2.12e4	4.80e4	1.24	1.28	0.1540	34.22	34.22	60	1.001	1.001	59.6	115
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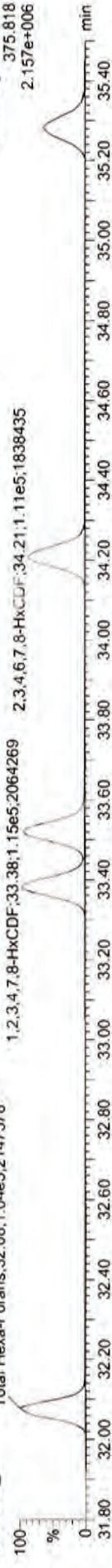
Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
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Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,2,3,4,7,8-HxCDF



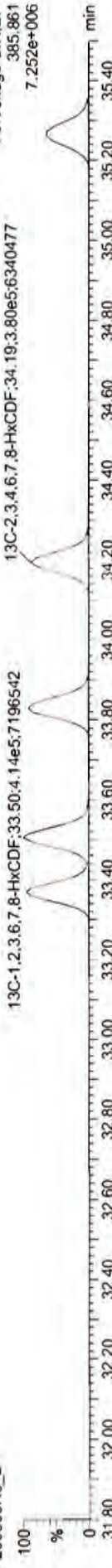
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13C-1,2,3,4,7,8-HxCDF



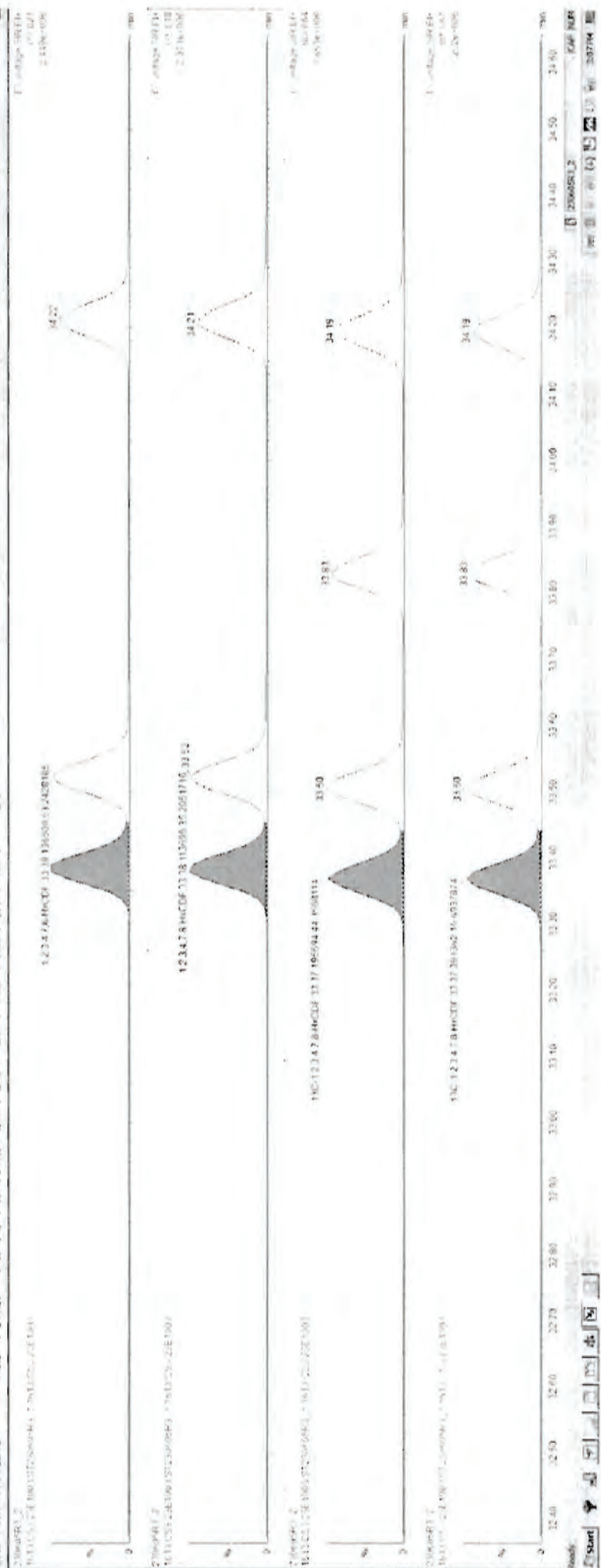
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DPE3



#	Name	Prop	Q Ret	RA	AV	HF	Prod RT	RT	RT Tag	Prod RT	Ref	Conc	uRef	STD ref
1	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
2	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
3	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
4	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
5	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
6	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
7	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
8	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
9	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
10	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
11	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
12	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90
13	12.12.17.8-HC10	2.15e5	0.75	0.75	60	0.007	26.77	26.76	60	1.001	1.001	10.2	10.2	90



Dataset: Untitled

Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
 Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,2,3,4,6,7,8-HpCDF

230605R3_2

1,2,3,4,6,7,8-HpCDF:36.90;9.16e4;1427380



13C-1,2,3,4,6,7,8-HpCDF

1,2,3,4,6,7,8-HpCDF:36.90;9.14e4;1425565



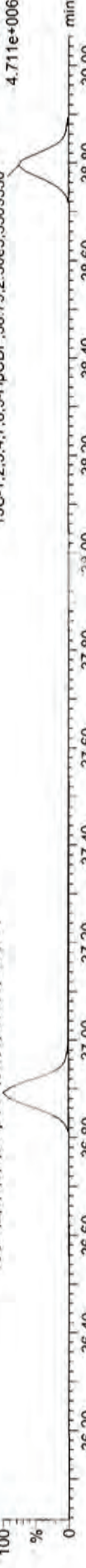
13C-1,2,3,4,6,7,8-HpCDF

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13C-1,2,3,4,6,7,8-HpCDF

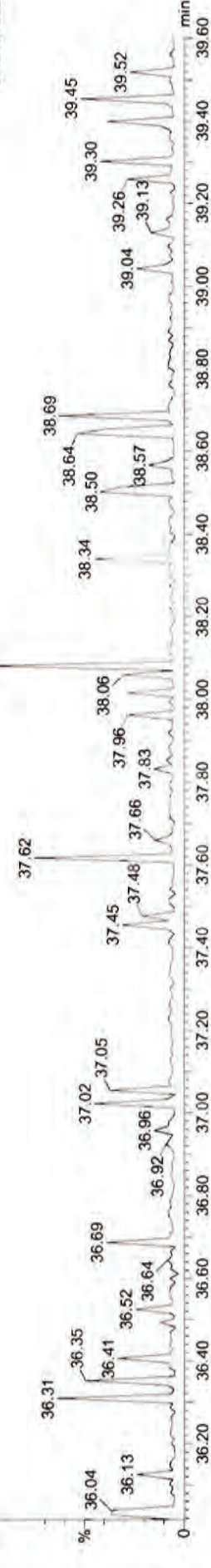
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DPE4

230605R3_2

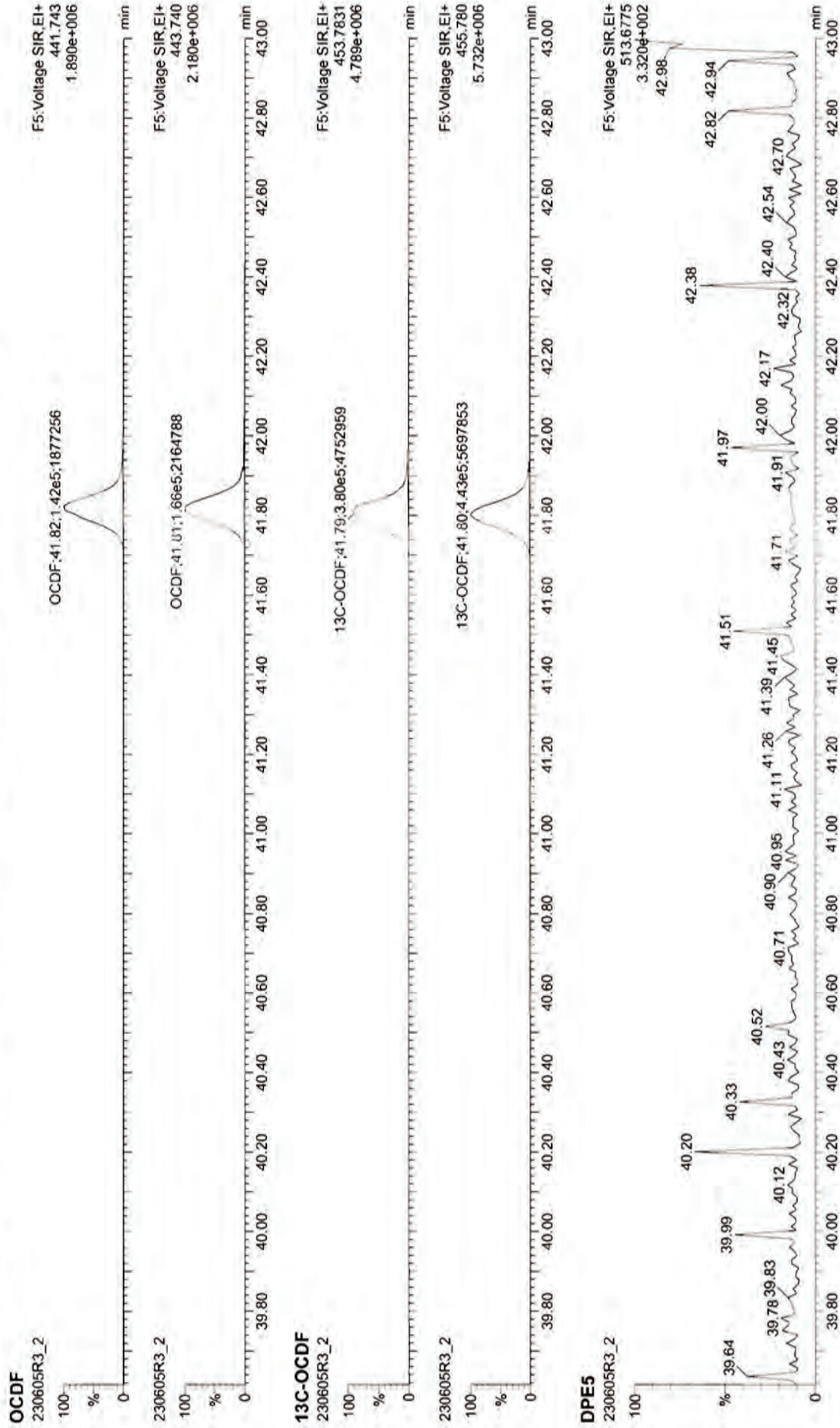
F4: Voltage SIR, EI+
 479.7165
 6.401e+002



Dataset: Untitled

Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



Dataset: Untitled

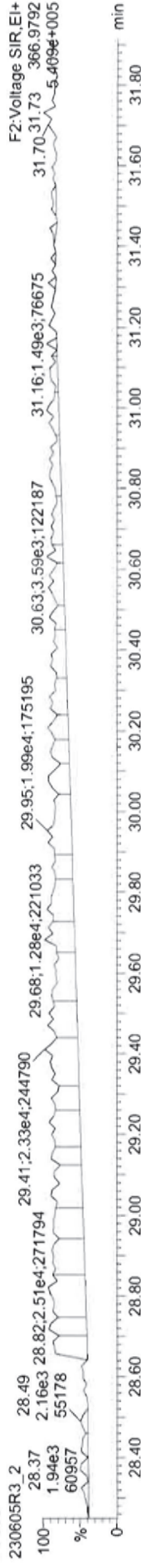
Last Altered: Wednesday, June 07, 2023 8:04:02 AM Pacific Daylight Time
Printed: Wednesday, June 07, 2023 8:16:52 AM Pacific Daylight Time

Name: 230605R3_2, Date: 06-Jun-2023, Time: 13:39:06, ID: ST230605R3_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

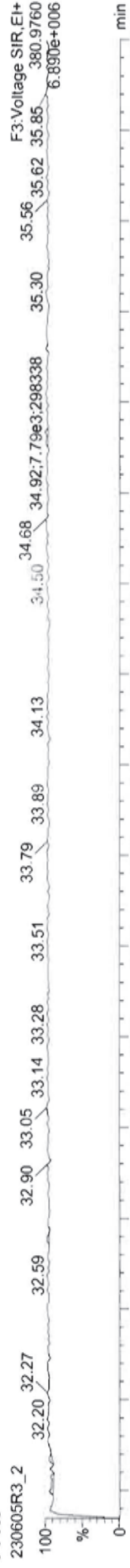
PFK1



PFK2



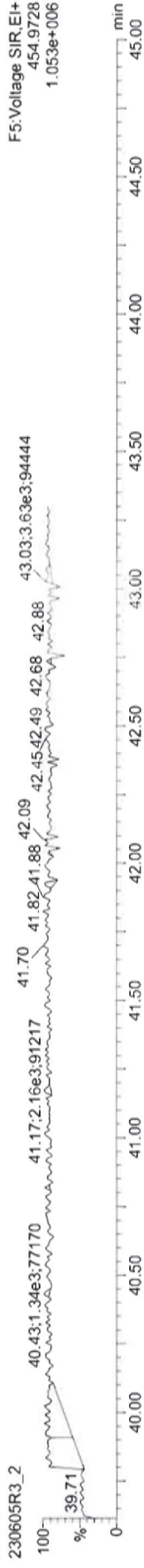
PFK3



PFK4



PFK5



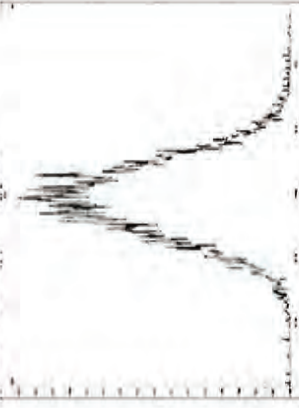
Resolution Check Report

MassLynx 4.1 SCN815

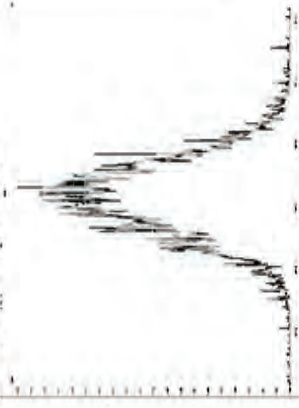
Page 1 of 4

Printed: Wednesday, June 07, 2023 01:25:44 Pacific Daylight Time

M 292.9824 R 11659



M 304.9824 R 12554



M 318.9792 R 12078



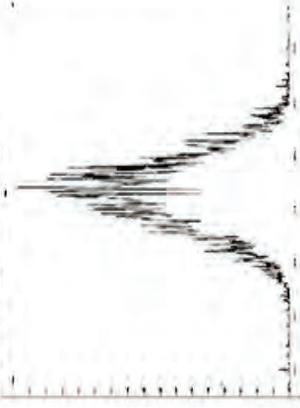
M 330.9792 R 12053



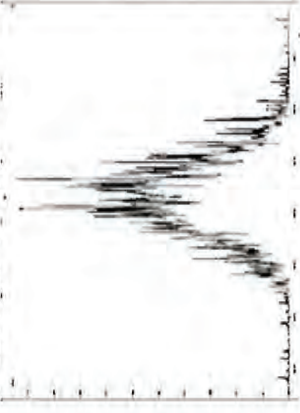
M 342.9792 R 12711



M 354.9792 R 13742



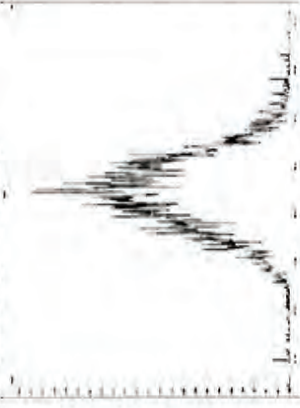
M 366.9792 R 14769



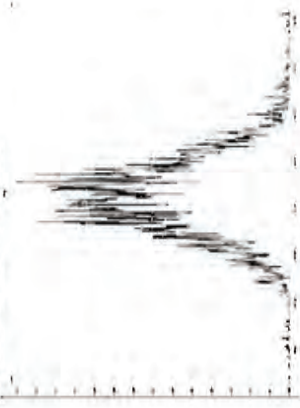
M 380.9760 R 12197



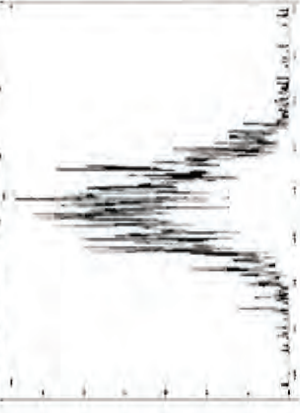
M 392.9760 R 12596



M 404.9760 R 12933



M 416.9760 R 13561



M 318.9792 R 11962



Resolution Check Report

MassLynx 4.1 SCN815

Printed: Wednesday, June 07, 2023 01:25:44 Pacific Daylight Time

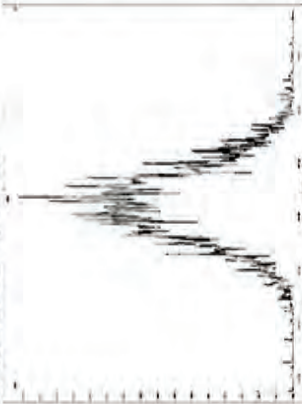
M 330.9792 R 11628



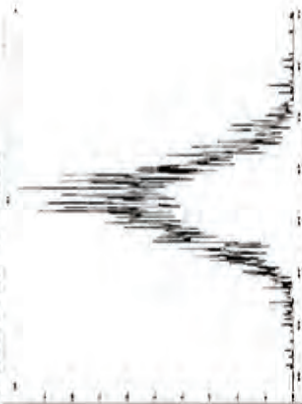
M 342.9792 R 12087



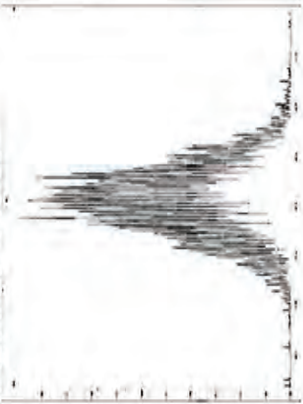
M 354.9792 R 13106



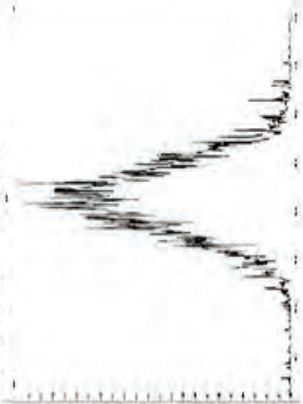
M 366.9792 R 13806



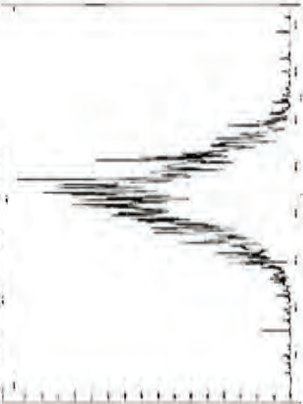
M 380.9760 R 16722



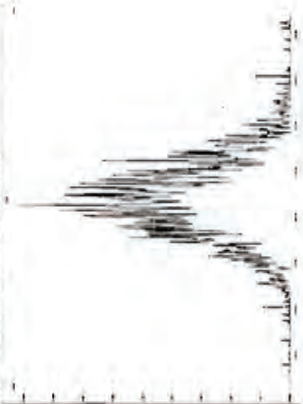
M 392.9760 R 13371



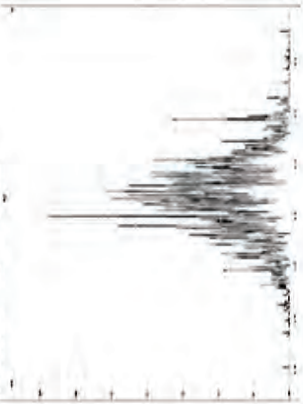
M 404.9760 R 13693



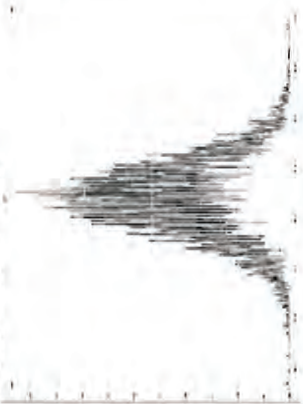
M 416.9760 R 14331



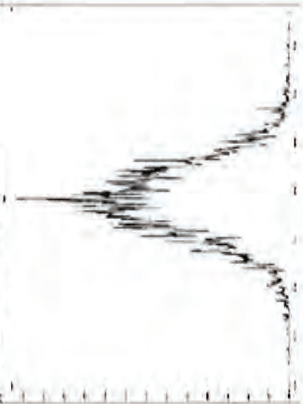
M 366.9792 R 30621



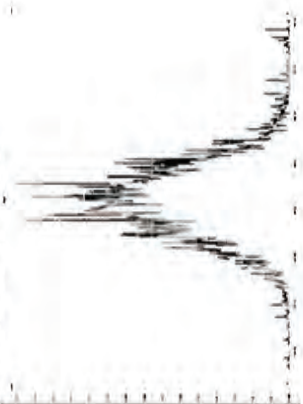
M 380.9760 R 14471



M 392.9760 R 13058



M 404.9760 R 13196

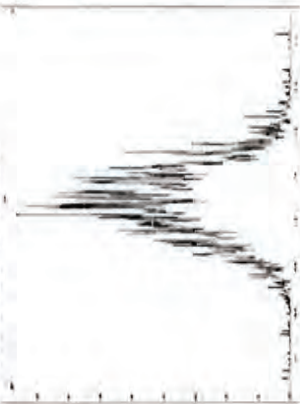


Resolution Check Report

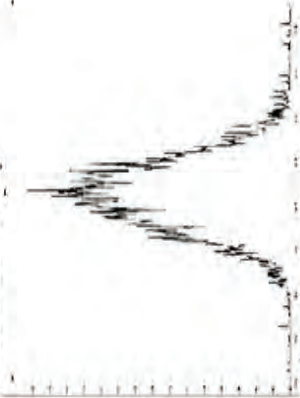
MassLynx 4.1 SCN815

Printed: Wednesday, June 07, 2023 01:25:44 Pacific Daylight Time

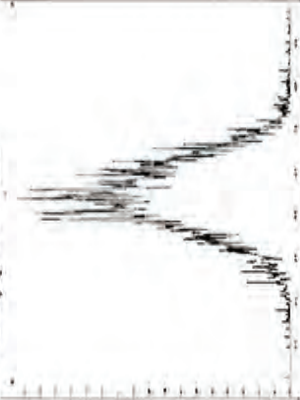
M 416.9760 R 13774



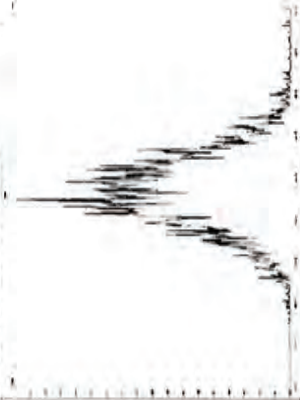
M 430.9728 R 12687



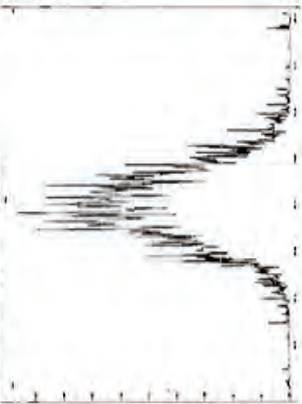
M 442.9728 R 13668



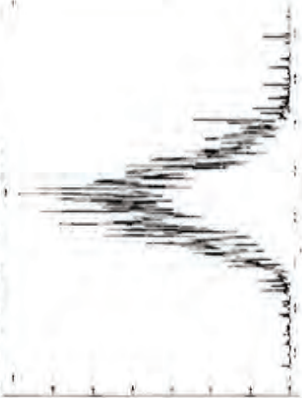
M 454.9728 R 13935



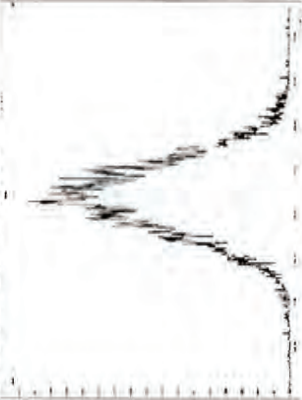
M 404.9760 R 13550



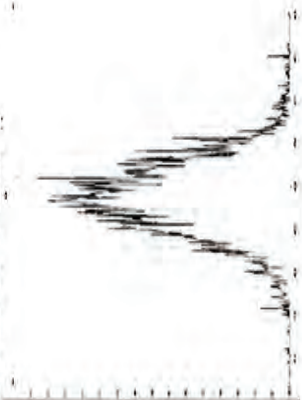
M 416.9760 R 13393



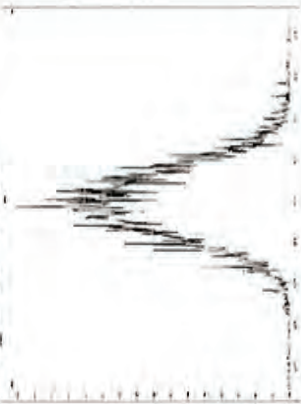
M 430.9728 R 12658



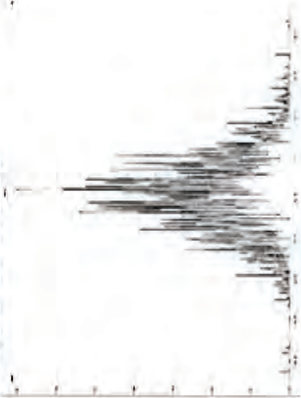
M 442.9728 R 13130



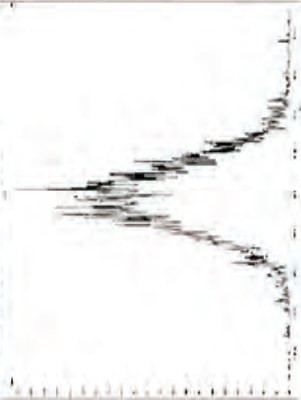
M 454.9728 R 14547



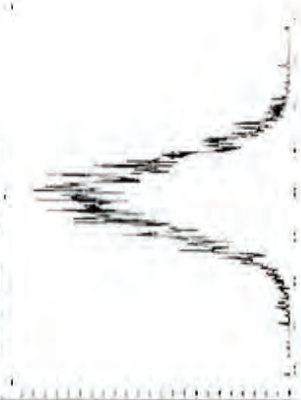
M 466.9728 R 23967



M 480.9696 R 13382



M 430.9728 R 12477



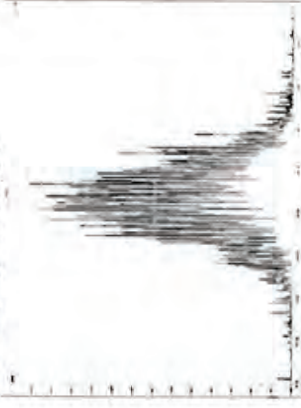
Resolution Check Report

MassLynx 4.1 SCN815

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Printed: Wednesday, June 07, 2023 01:25:44 Pacific Daylight Time

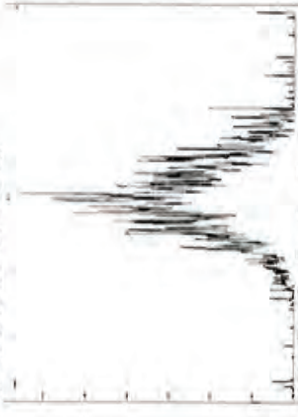
M 442.9728 R 19384



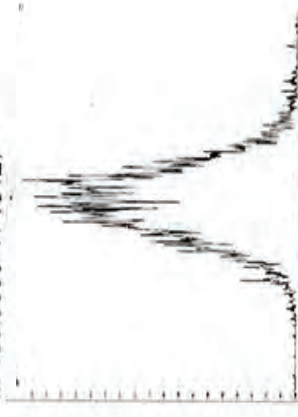
M 454.9728 R 13233



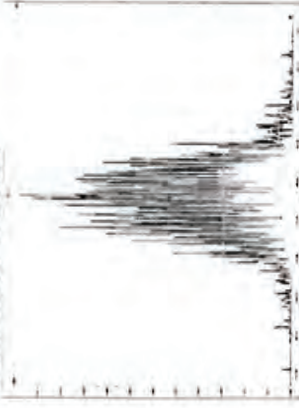
M 466.9728 R 16345



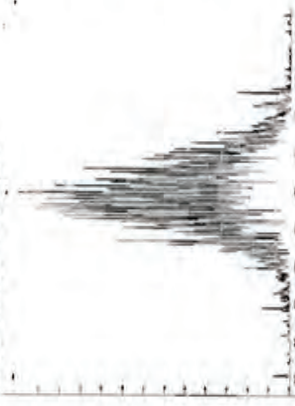
M 480.9696 R 13127



M 492.9696 R 29594



M 504.9696 R 22601



M 516.9697 R 16090



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: 51230611R2-1 Reviewed By: MAF 06.12.23

Initials & Date

End Calibration ID: 51230611R3-1

	Beg.	End
Ion abundance within QC limits?	☒	☒

Concentrations within criteria?

Mass resolution $\geq$	☒ 5k	☐ 6-8K	☐ 8K	☒ 10K
	1614	1699	429	1613/1668/8280

TCDD/TCDF Valleys <25%

Integrated peaks display correctly?

First and last eluters present?

GC Break <20%

Retention Times within criteria?

8280 CS1 End Standard:

Verification Std. named correctly?

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

(ST-Year-Month-Day-VG ID)

Forms signed and dated?

Correct ICAL referenced?

Run Log:

- Correct instrument listed?

- Samples within 12 hour clock?

- Bottle position verified?

Comments:

Dataset: Untitled

Last Altered: Monday, June 12, 2023 08:43:18 Pacific Daylight Time
Printed: Monday, June 12, 2023 08:43:37 Pacific Daylight Time

MAF 06.12.23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\DIODIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

ATM 06/12/23

Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

#	Name	Resp	ISResp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	4.06e4	4.64e5	0.77	NO	0.906	26.76	26.76	NO	1.001	1.001	9.6534	96.5	NO
2	2 1,2,3,7,8-PeCDD	1.28e5	3.18e5	0.59	NO	0.745	31.00	30.99	NO	1.001	1.000	53.923	108	NO
3	3 1,2,3,4,7,8-HxCDD	1.02e5	2.52e5	1.26	NO	0.837	34.31	34.31	NO	1.000	1.000	48.345	96.7	NO
4	4 1,2,3,6,7,8-HxCDD	1.08e5	2.85e5	1.28	NO	0.782	34.45	34.44	NO	1.001	1.000	48.314	96.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.02e5	2.73e5	1.26	NO	0.780	34.74	34.73	NO	1.001	1.000	47.776	95.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	8.22e4	1.88e5	1.00	NO	0.903	38.08	38.09	NO	1.000	1.001	48.543	97.1	NO
7	7 OCDD	1.49e5	3.86e5	0.89	NO	0.782	41.44	41.43	NO	1.000	1.001	98.470	98.5	NO
8	8 2,3,7,8-TCDF	4.36e4	5.27e5	0.72	NO	0.852	26.15	26.15	NO	1.000	1.001	9.7111	97.1	NO
9	9 1,2,3,7,8-PeCDF	1.77e5	4.56e5	1.63	NO	0.758	29.87	29.86	NO	1.001	1.001	51.283	103	NO
10	10 2,3,4,7,8-PeCDF	1.86e5	4.35e5	1.62	NO	0.834	30.83	30.81	NO	1.001	1.000	51.316	103	NO
11	11 1,2,3,4,7,8-HxCDF	1.21e5	2.84e5	1.22	NO	0.762	33.38	33.38	NO	1.000	1.000	55.947	112	NO
12	12 1,2,3,6,7,8-HxCDF	1.32e5	3.21e5	1.25	NO	0.726	33.52	33.51	NO	1.001	1.000	56.339	113	NO
13	13 2,3,4,6,7,8-HxCDF	1.19e5	2.96e5	1.20	NO	0.756	34.22	34.21	NO	1.001	1.000	52.828	106	NO
14	14 1,2,3,7,8,9-HxCDF	9.76e4	2.47e5	1.21	NO	0.749	35.27	35.28	NO	1.000	1.001	52.865	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	8.63e4	2.18e5	0.99	NO	0.754	36.90	36.89	NO	1.000	1.000	52.432	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	6.82e4	1.63e5	0.99	NO	0.792	38.79	38.78	NO	1.000	1.000	52.830	106	NO
17	17 OCDF	1.64e5	4.51e5	0.83	NO	0.669	41.77	41.78	NO	1.000	1.001	108.83	109	NO
18	18 1,3C-2,3,7,8-TCDD	4.64e5	4.27e5	0.76	NO	1.13	26.72	26.73	NO	1.026	1.026	96.422	95.4	NO
19	19 1,3C-1,2,3,7,8-PeCDD	3.18e5	4.27e5	0.61	NO	0.869	30.57	30.98	NO	1.178	1.189	85.576	85.6	NO
20	20 1,3C-1,2,3,4,7,8-HxCDD	2.52e5	3.12e5	1.26	NO	0.746	34.28	34.30	NO	1.013	1.014	108.53	109	NO
21	21 1,3C-1,2,3,6,7,8-HxCDD	2.85e5	3.12e5	1.22	NO	0.803	34.43	34.43	NO	1.018	1.018	114.15	114	NO
22	22 1,3C-1,2,3,7,8,9-HxCDD	2.73e5	3.12e5	1.17	NO	0.817	34.72	34.72	NO	1.026	1.026	107.31	107	NO
23	23 1,3C-1,2,3,4,6,7,8-HpCDD	1.88e5	3.12e5	1.00	NO	0.611	38.07	38.07	NO	1.125	1.125	98.487	98.5	NO
24	24 1,3C-OCDD	3.86e5	3.12e5	0.87	NO	0.545	41.38	41.42	NO	1.223	1.224	227.17	114	NO
25	25 1,3C-2,3,7,8-TCDF	5.27e5	5.74e5	0.76	NO	1.07	26.13	26.14	NO	1.003	1.003	85.588	85.6	NO
26	26 1,3C-1,2,3,7,8-PeCDF	4.56e5	5.74e5	1.57	NO	0.907	29.81	29.85	NO	1.145	1.146	87.494	87.5	NO
27	27 1,3C-2,3,4,7,8-PeCDF	4.35e5	5.74e5	1.57	NO	0.889	30.77	30.81	NO	1.181	1.183	85.239	85.2	NO
28	28 1,3C-1,2,3,4,7,8-HxCDF	2.84e5	3.12e5	0.48	NO	0.993	33.39	33.37	NO	0.987	0.986	91.739	91.7	NO
29	29 1,3C-1,2,3,6,7,8-HxCDF	3.21e5	3.12e5	0.49	NO	1.05	33.51	33.50	NO	0.990	0.990	97.979	98.0	NO
30	30 1,3C-2,3,4,6,7,8-HxCDF	2.96e5	3.12e5	0.49	NO	0.956	34.18	34.19	NO	1.010	1.011	99.432	99.4	NO

Dataset: Untitled

Last Altered: Monday, June 12, 2023 08:43:18 Pacific Daylight Time
Printed: Monday, June 12, 2023 08:43:37 Pacific Daylight Time

Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
31	13C-1,2,3,7,8,9-HxCDF	2.47e5	3.12e5	0.47	NO	0.853	35.25	35.26	NO	1.042	1.042	92.853	92.9	NO
32	13C-1,2,3,4,6,7,8-HpCDF	2.18e5	3.12e5	0.40	NO	0.721	36.87	36.88	NO	1.090	1.090	97.134	97.1	NO
33	13C-1,2,3,4,7,8,9-HpCDF	1.63e5	3.12e5	0.39	NO	0.581	38.76	38.78	NO	1.146	1.146	90.006	90.0	NO
34	13C-OCDF	4.51e5	3.12e5	0.88	NO	0.718	41.77	41.76	NO	1.235	1.234	201.72	101	NO
35	37Cl-2,3,7,8-TCDD	3.98e4	4.27e5			0.980	26.73	26.76	NO	1.026	1.027	9.5143	95.1	NO
36	13C-1,2,3,4-TCDD	4.27e5	4.27e5	0.76	NO	1.00	26.11	26.05	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	5.74e5	5.74e5	0.77	NO	1.00	24.81	24.76	NO	1.000	1.000	100.00	100	YES ^{OK}
38	13C-1,2,3,4,6,9-HxCDF	3.12e5	3.12e5	0.49	NO	1.00	33.84	33.83	NO	1.000	1.000	100.00	100	YES ^{OK}

Dataset: Untitled

Last Altered: Monday, June 12, 2023 09:17:33 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:17:47 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\ldbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq. Date	Acq. Time
1	230611R2_1	ST230611R2_1 1613 CS3 23E1003	11-Jun-23	12:49:07
2	230611R2_2	B23F029-BS1 OPR 1	11-Jun-23	13:47:10
3	230611R2_3	SOLVENT BLANK	11-Jun-23	14:31:45
4	230611R2_4	B23F029-BLK1 Method Blank 1	11-Jun-23	15:16:44
5	230611R2_5	B23E130-BLK1 Method Blank 10	11-Jun-23	16:01:51
6	230611R2_6	2304196-04 RP042423-04 13.98	11-Jun-23	16:46:56
7	230611R2_7	2305023-04 PS63-SS-04 18.84	11-Jun-23	17:32:01
8	230611R2_8	2305023-05 PS63-SS-05 24.64	11-Jun-23	18:17:08
9	230611R2_9	2305023-01 PS63-SS-01 20.86	11-Jun-23	19:02:14
10	230611R2_10	2305023-03 PS63-SS-03 27.33	11-Jun-23	19:47:22
11	230611R2_11	2305079-03 MW-3A 0.88851	11-Jun-23	20:32:30
12	230611R2_12	2305079-04 MW-5 0.89218	11-Jun-23	21:17:38
13	230611R2_13	2305079-05 MW-7A 0.87129	11-Jun-23	22:02:46
14	230611R2_14	2305079-06 MW-9 0.90382	11-Jun-23	22:47:52
15	230611R2_15	2305079-02@25X MW-3 0.84089	11-Jun-23	23:32:50
16	230611R2_16	2305228-01 EFF-001 COMPOSITE 1.03488	12-Jun-23	00:17:49
17	230611R3_1	SOLVENT BLANK	12-Jun-23	01:11:49
18	230611R3_2	ST230611R3_1 1613 CS3 23E1003	12-Jun-23	01:56:25

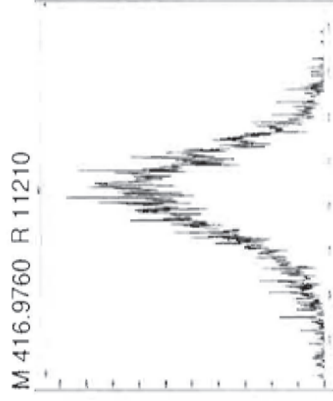
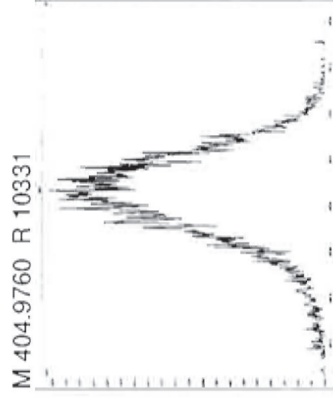
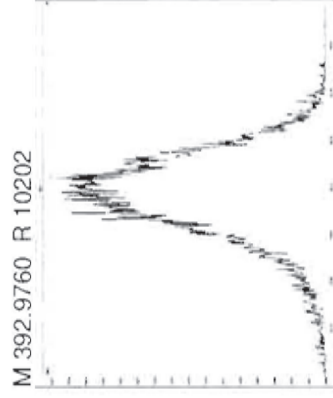
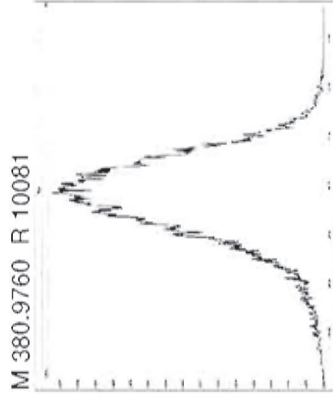
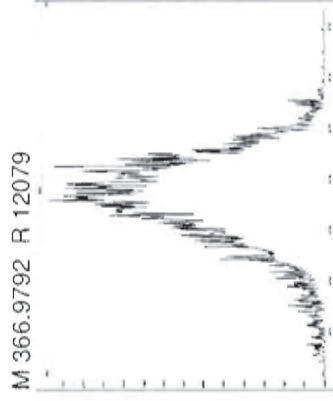
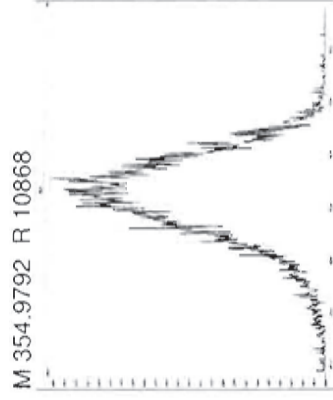
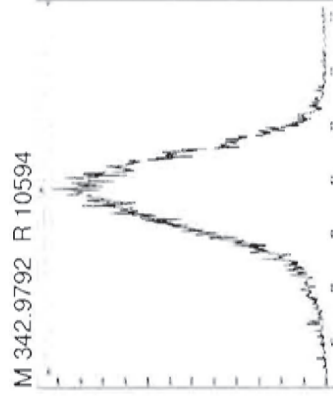
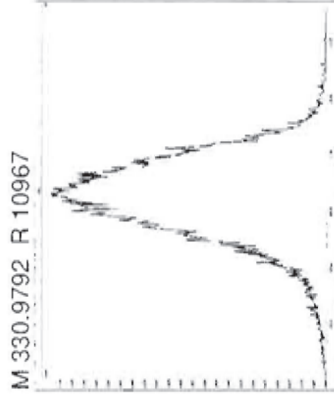
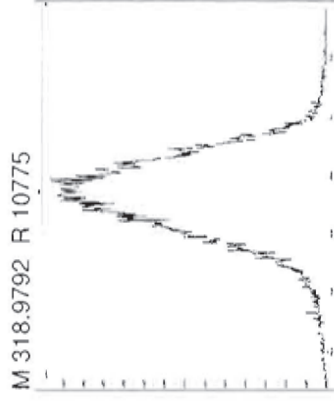
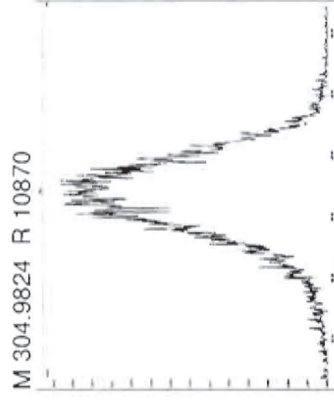
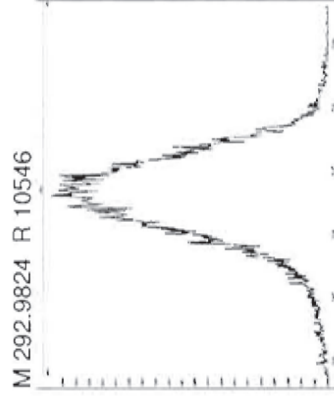
Experiment Calibration Report

MassLynx 4.1 SCN815

Page 1 of 1

File: Experiment: OCDD_DIOXIN.exp Reference: Plk.ref Function: 1 @ 200 (ppm)

Printed: Sunday, June 11, 2023 12:45:59 Pacific Daylight Time

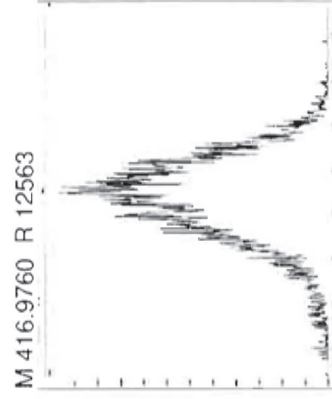
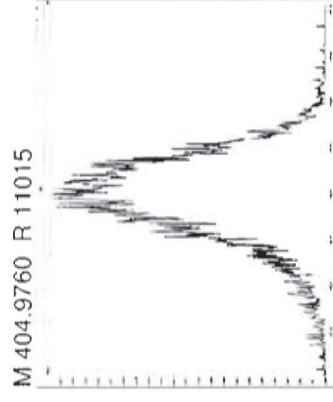
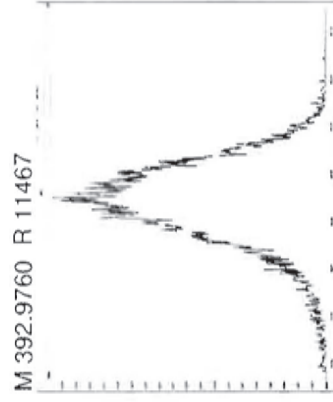
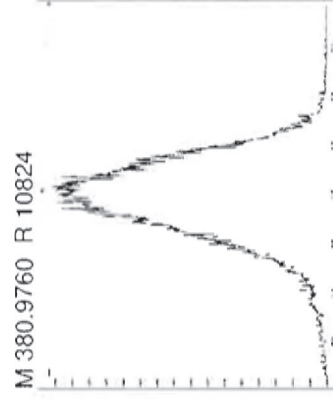
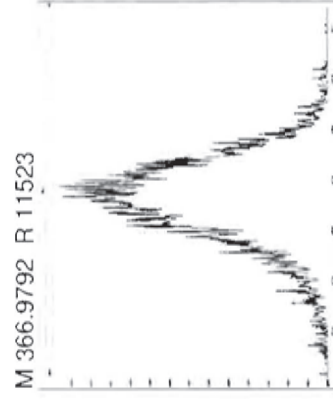
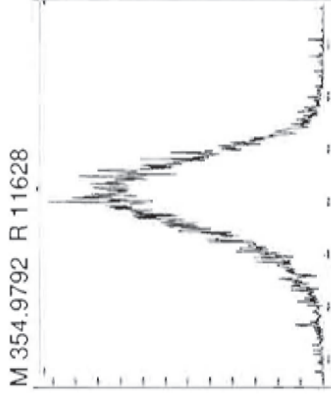
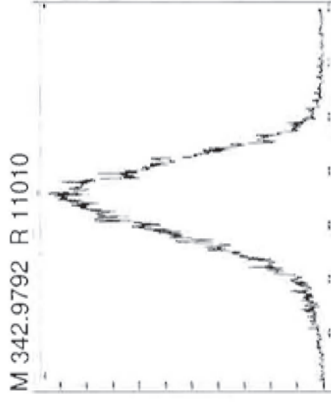
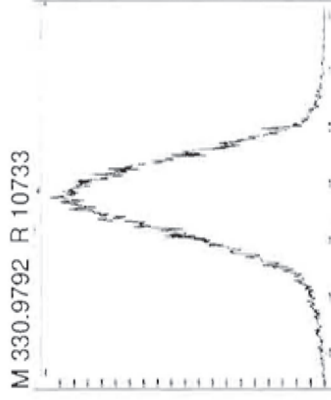
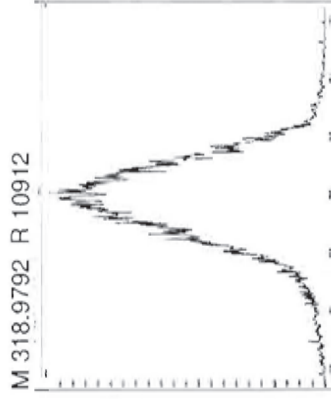


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Ptk.ref Function: 2 @ 200 (ppm)

Printed: Sunday, June 11, 2023 12:46:26 Pacific Daylight Time



Experiment Calibration Report

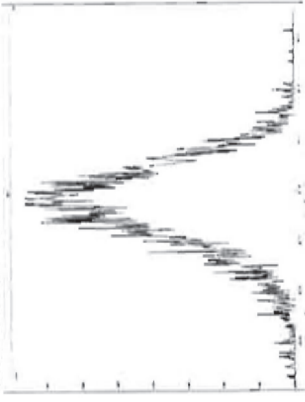
MassLynx 4.1 SCN815

Page 1 of 1

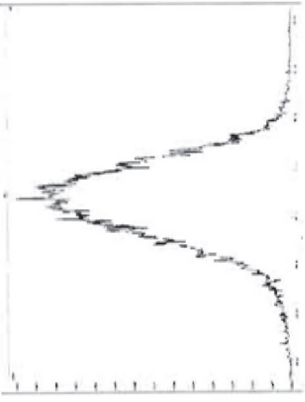
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Printed: Sunday, June 11, 2023 12:46:48 Pacific Daylight Time

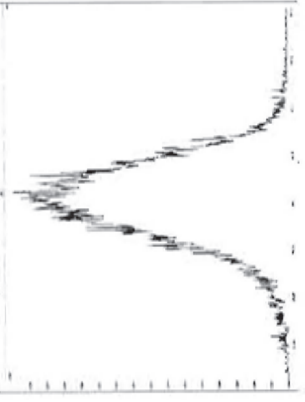
M 366.9792 R 11110



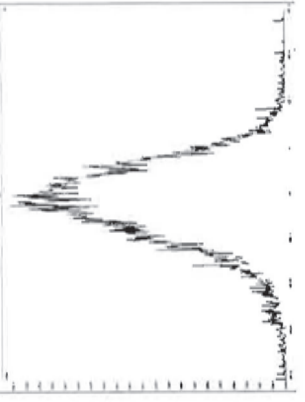
M 380.9760 R 11572



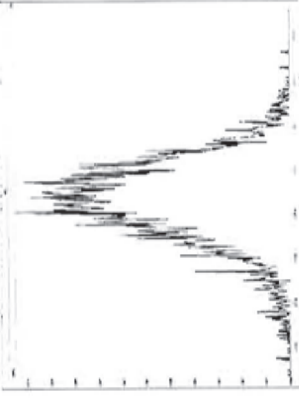
M 392.9760 R 11360



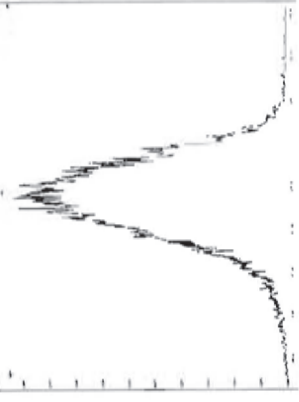
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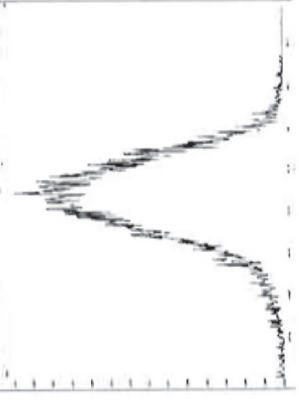
M 416.9760 R 11846



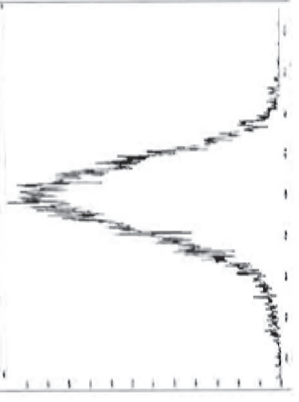
M 430.9728 R 10635



M 442.9728 R 11210



M 454.9728 R 11846



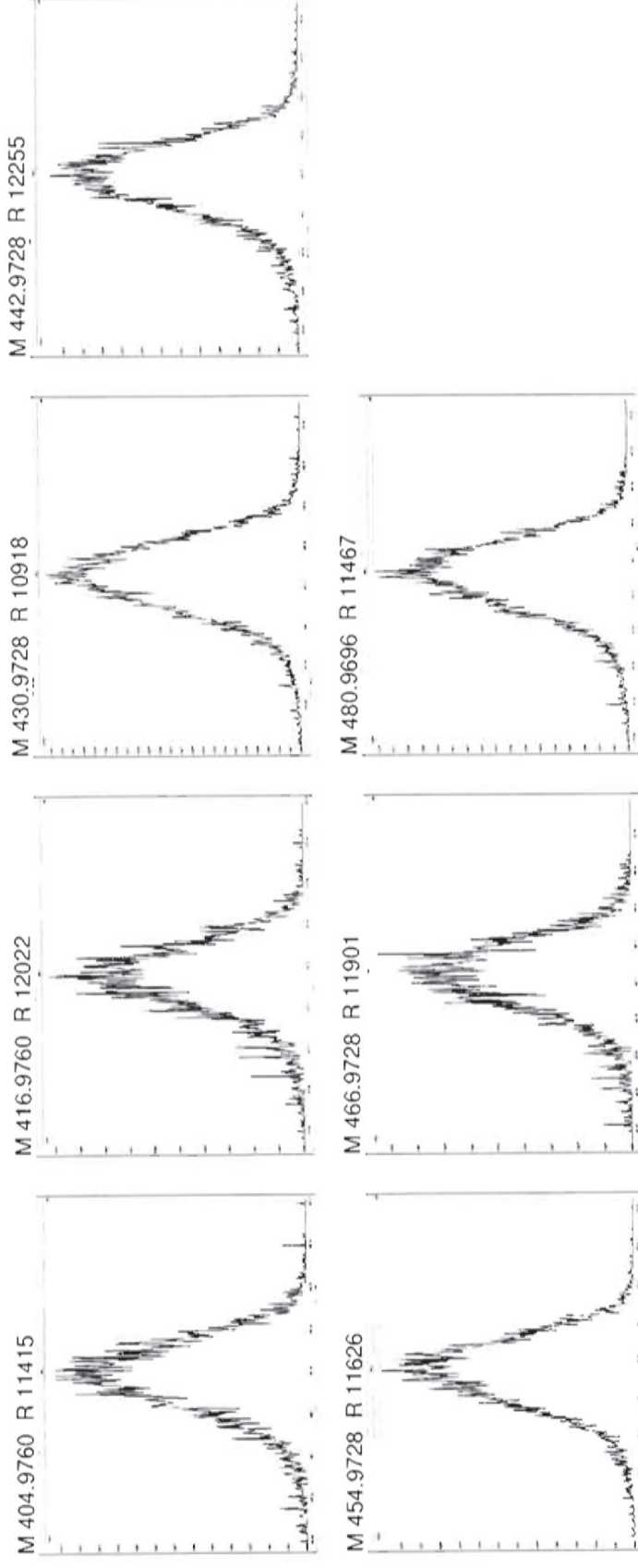
Experiment Calibration Report

MassLynx 4.1 SCN815

Page 1 of 1

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Sunday, June 11, 2023 12:47:11 Pacific Daylight Time

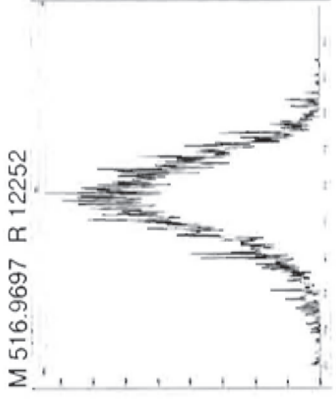
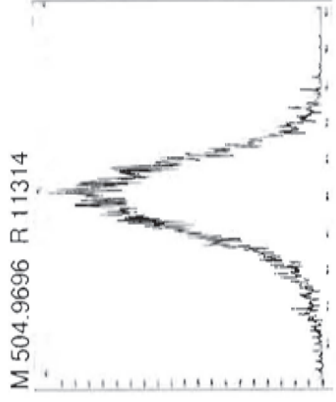
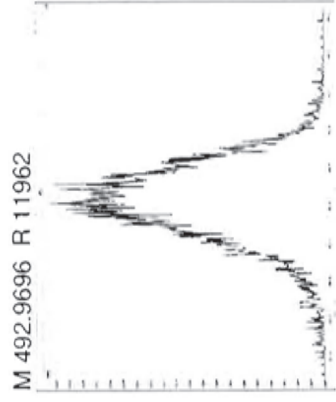
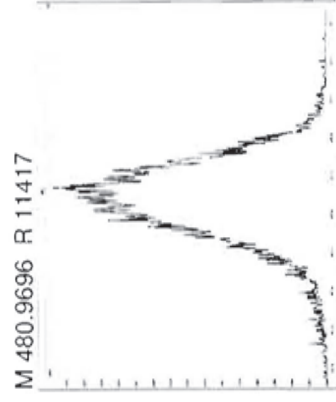
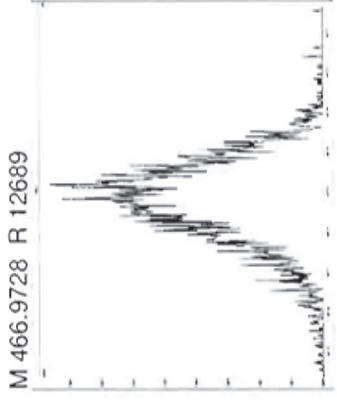
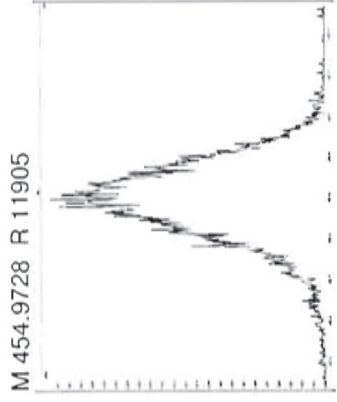
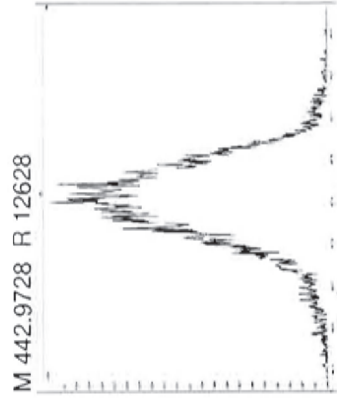
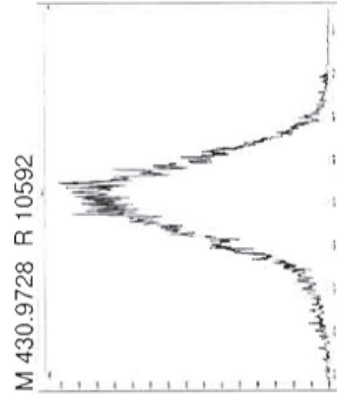


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Sunday, June 11, 2023 12:47:31 Pacific Daylight Time



Dataset: Untitled

Last Altered: Monday, June 12, 2023 09:23:52 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:24:58 Pacific Daylight Time

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\BIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

#	Name	RT
1	1,3,6,8-TCDD (First)	23.46
2	1,2,8,9-TCDD (Last)	27.56
3	1,2,4,7,9-PeCDD (First)	28.93
4	1,2,3,8,9-PeCDD (Last)	31.32
5	1,2,4,6,7,9-HxCDD (First)	32.60
6	1,2,3,7,8,9-HxCDD (Last)	34.73
7	1,2,3,4,6,7,9-HpCDD (First)	37.21
8	1,2,3,4,6,7,8-HpCDD (Last)	38.09
9	1,3,6,8-TCDF (First)	21.42
10	1,2,8,9-TCDF (Last)	27.85
11	1,3,4,6,8-PeCDF (First)	27.44
12	1,2,3,8,9-PeCDF (Last)	31.69
13	1,2,3,4,6,8-HxCDF (First)	32.07
14	1,2,3,7,8,9-HxCDF (Last)	35.28
15	1,2,3,4,6,7,8-HpCDF (First)	36.89
16	1,2,3,4,7,8,9-HpCDF (Last)	38.78

Dataset: Untitled

Last Altered: Monday, June 12, 2023 09:23:52 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:24:58 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 24 May 2023 17:45:01
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\BIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31
Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



Dataset: Untitled

Last Altered: Monday, June 12, 2023 09:23:52 Pacific Daylight Time
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Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,3,6,8-TCDF (First)



230611R2_1

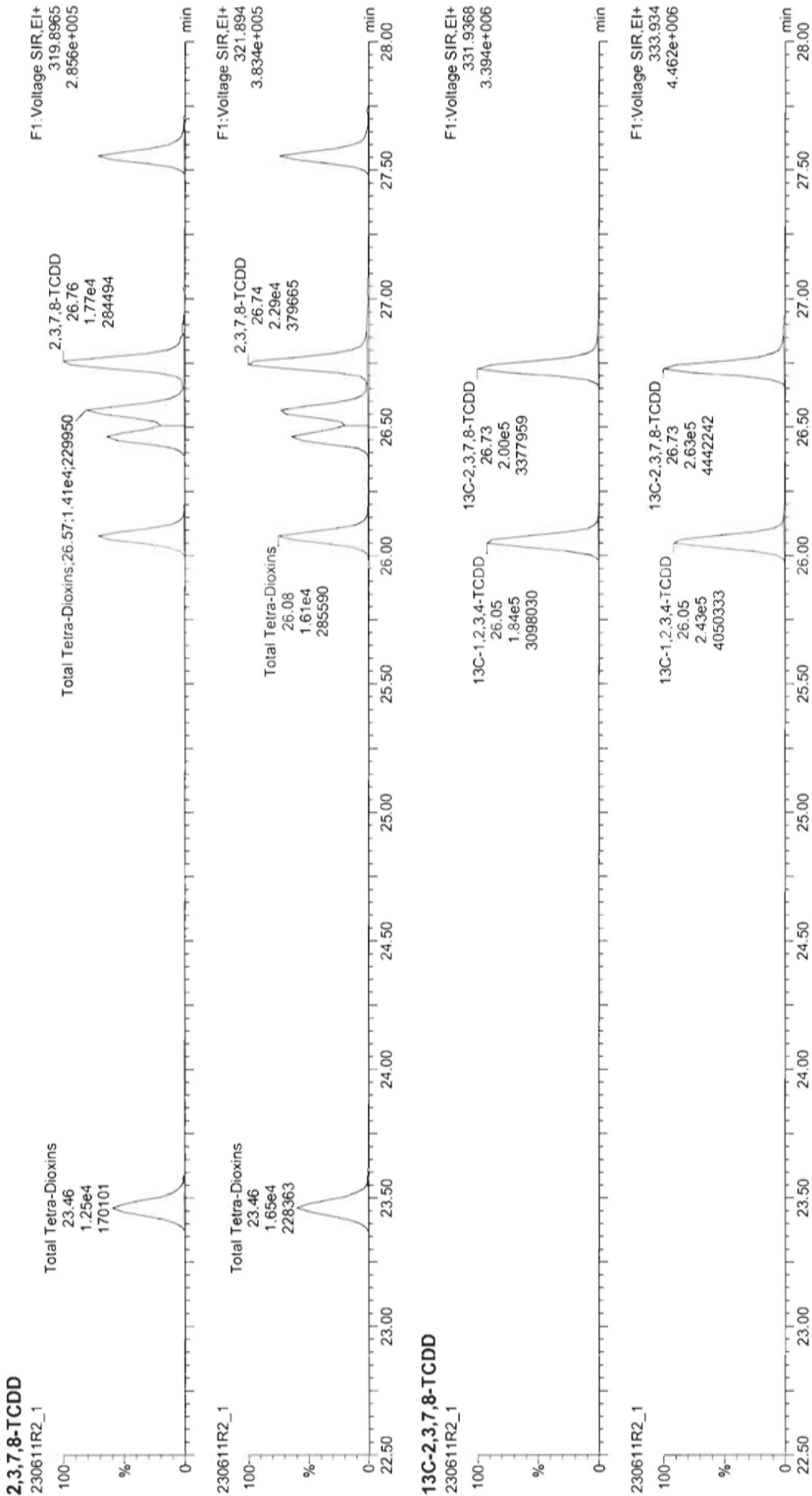


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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

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Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

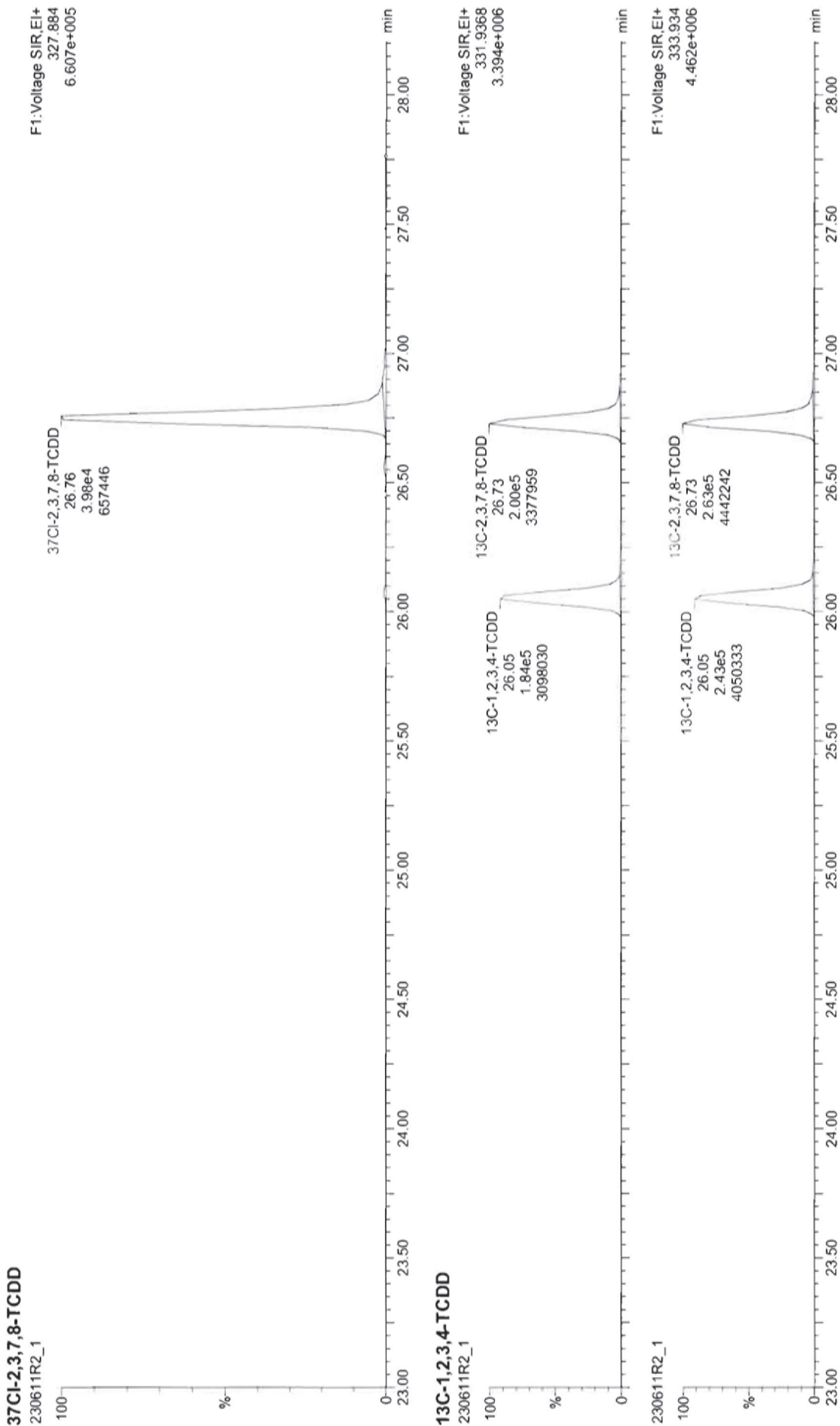
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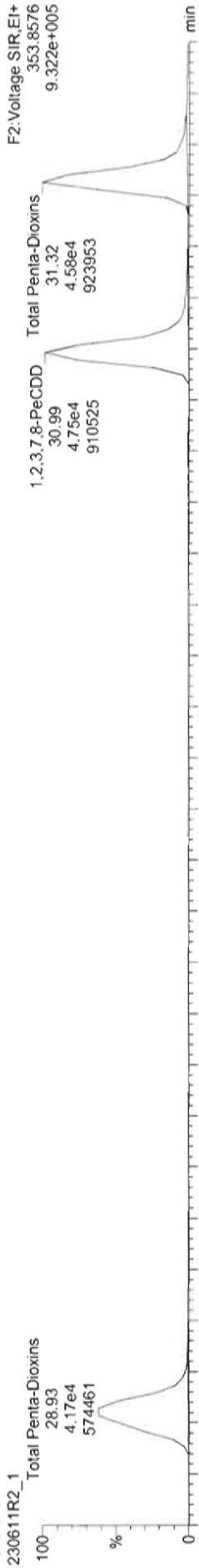


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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

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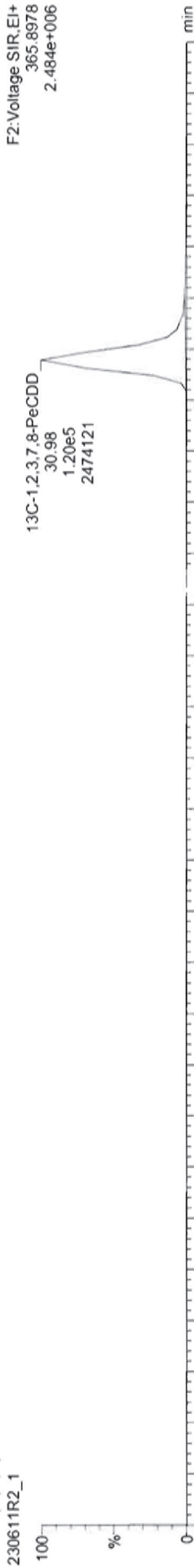
1,2,3,7,8-PeCDD



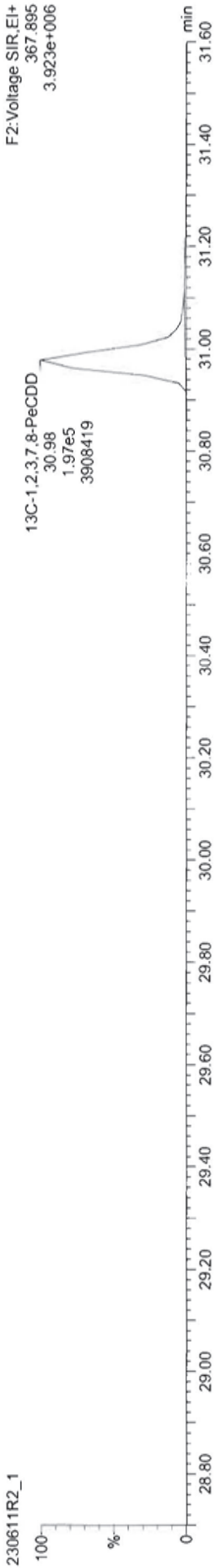
230611R2_1



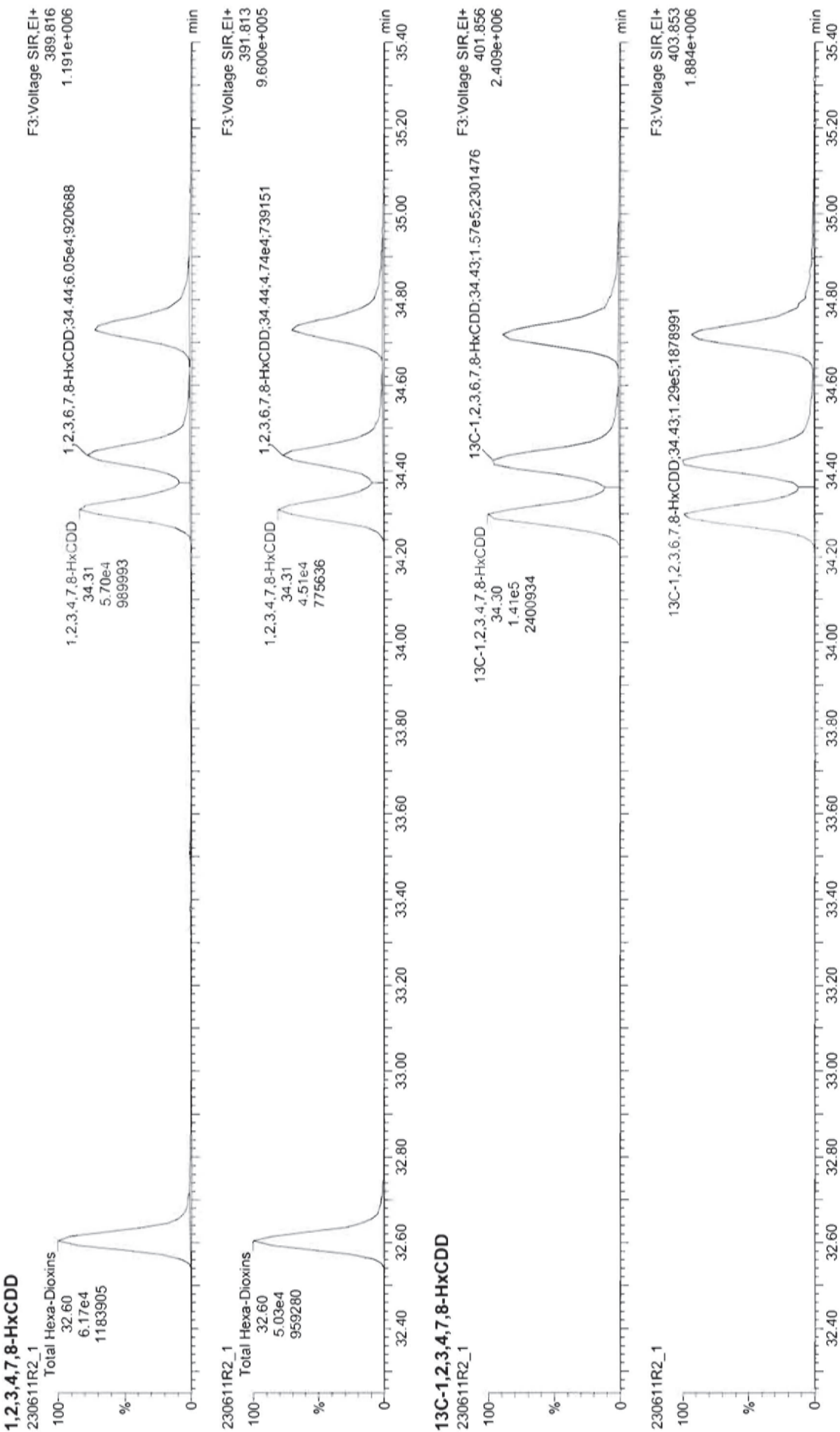
13C-1,2,3,7,8-PeCDD



230611R2_1



Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



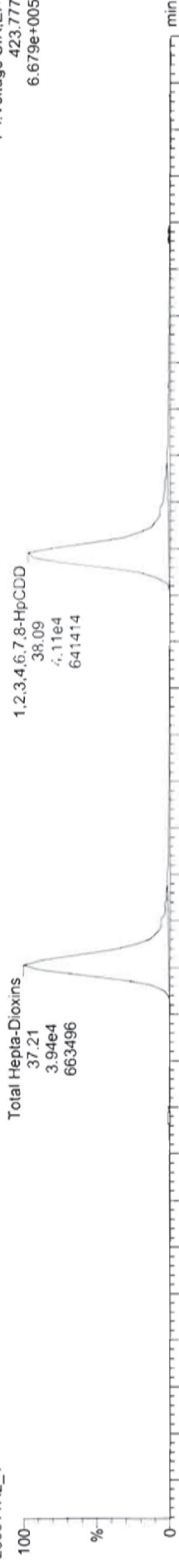
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Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
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Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,2,3,4,6,7,8-HpCDD

230611R2_1

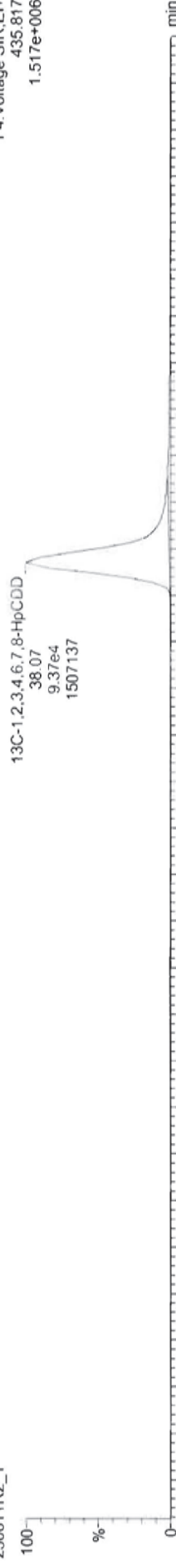


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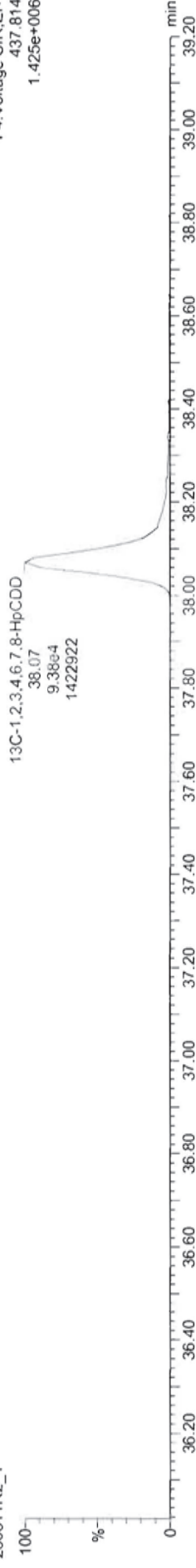


13C-1,2,3,4,6,7,8-HpCDD

230611R2_1



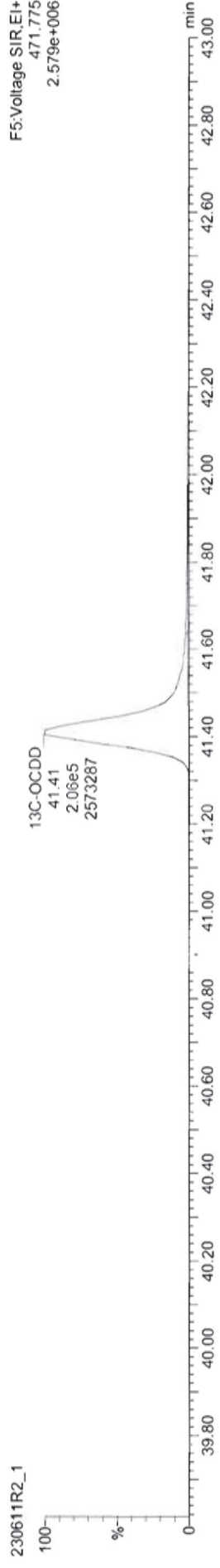
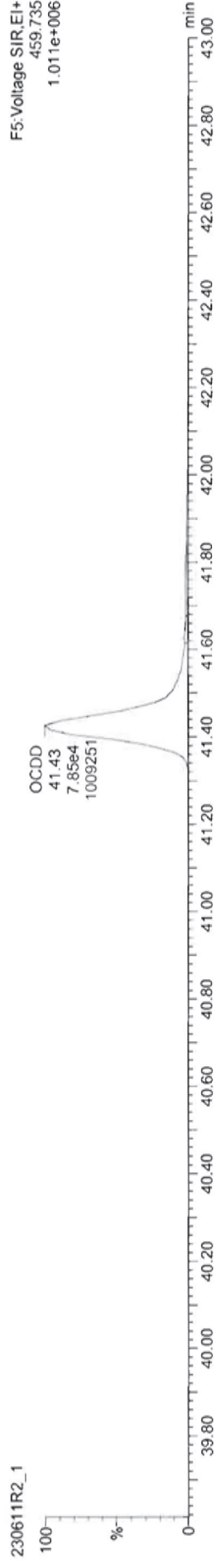
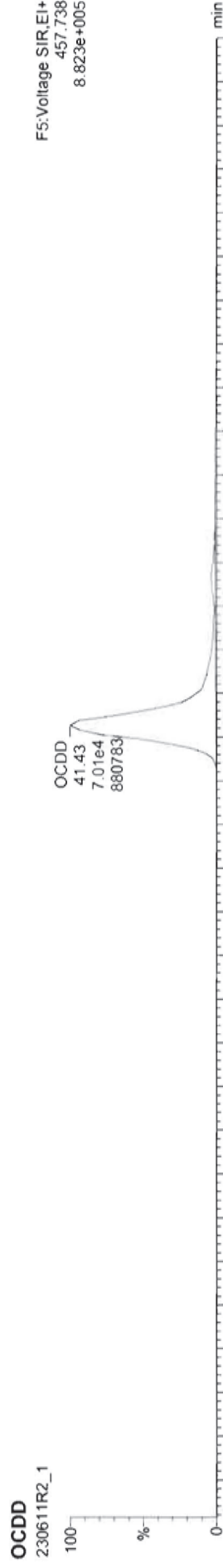
230611R2_1



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Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

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Dataset: Untitled

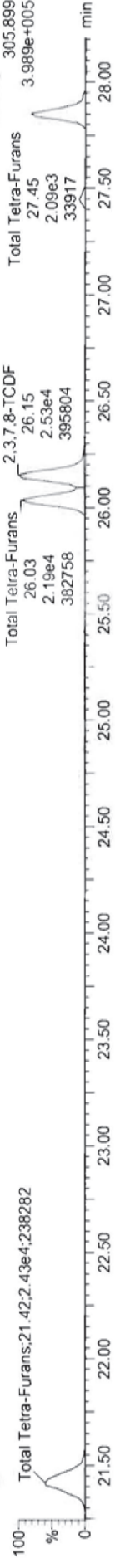
Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

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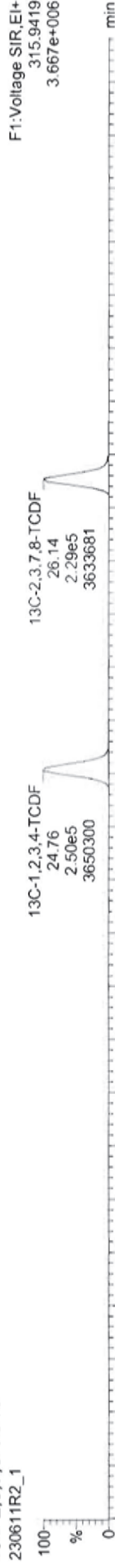
2,3,7,8-TCDF



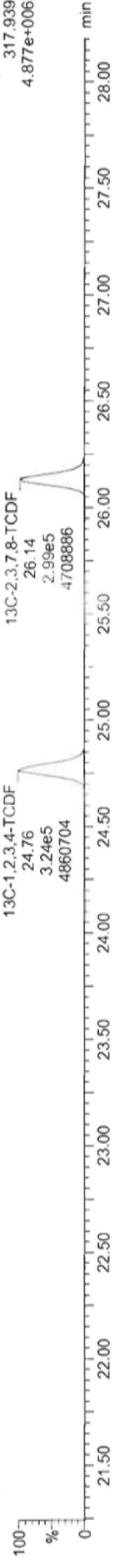
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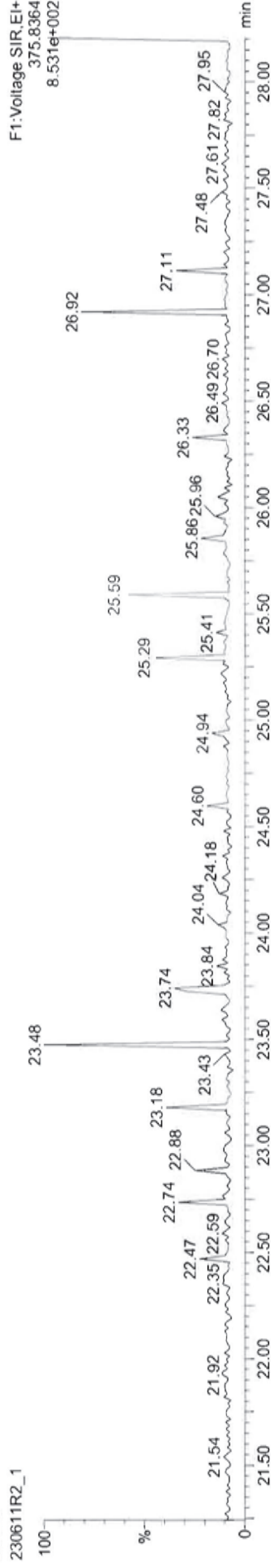
13C-2,3,7,8-TCDF



230611R2_1



DPE1

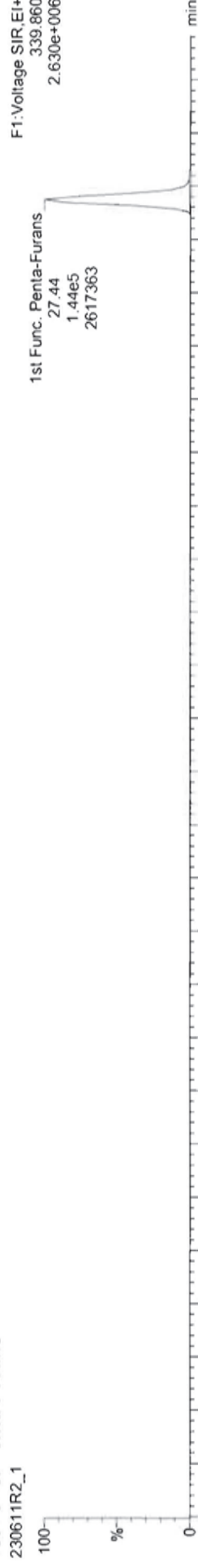


Dataset: Untitled

Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

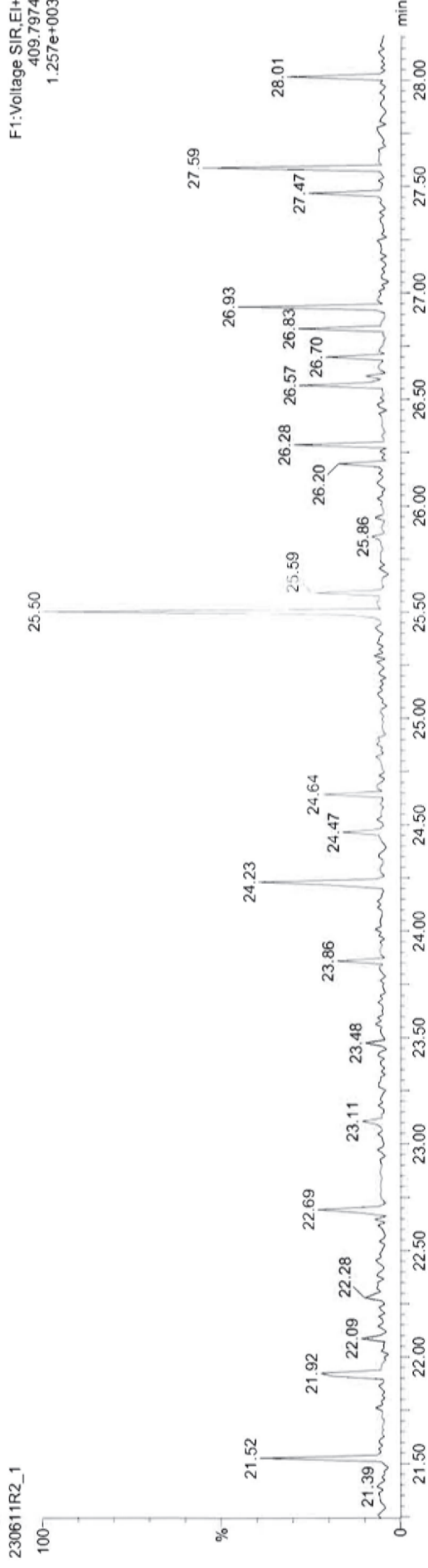
1st Func. Penta-Furans



230611R2_1



DPE6

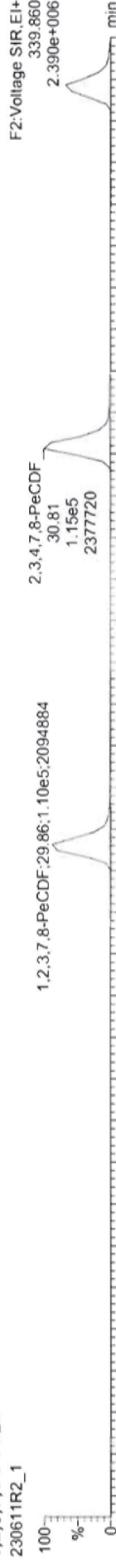


Dataset: Untitled

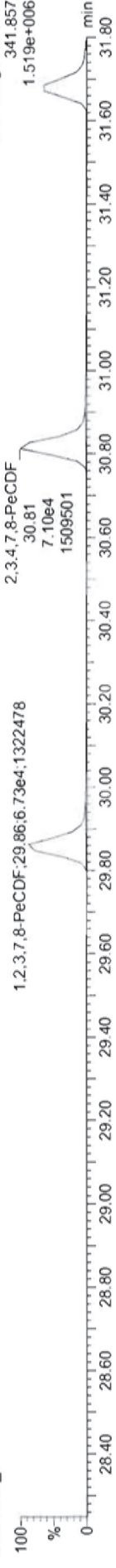
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Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

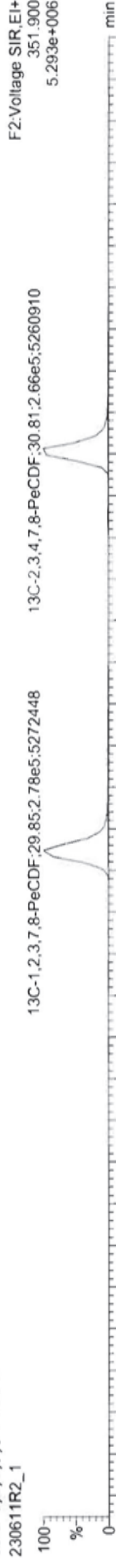
1,2,3,7,8-PeCDF



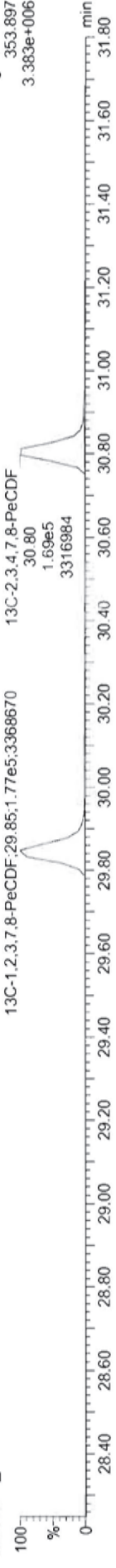
13C-1,2,3,7,8-PeCDF



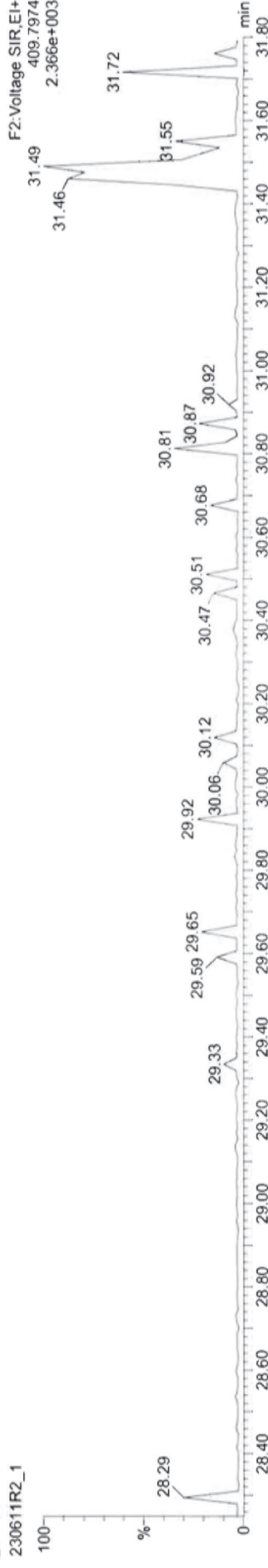
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230611R2_1



DPE2

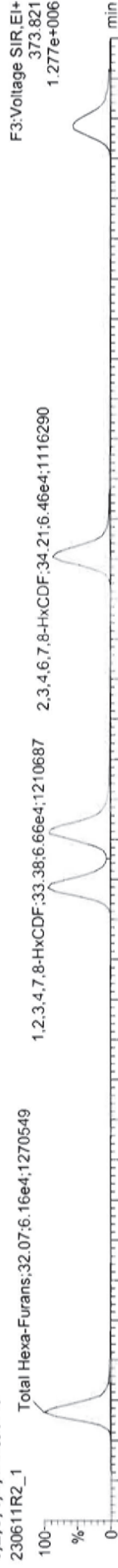


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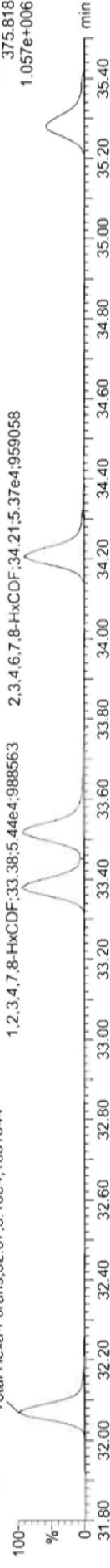
Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

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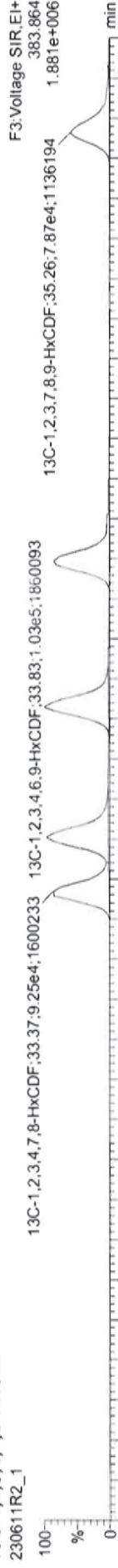
1,2,3,4,7,8-HxCDF



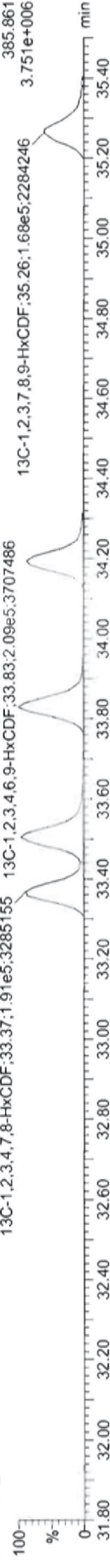
230611R2_1



13C-1,2,3,4,7,8-HxCDF



230611R2_1



DPE3



Dataset: Untitled

Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

Name: 230611R2_1, Date: 11-Jun-2023, Time: 12:49:07, ID: ST230611R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,2,3,4,6,7,8-HpCDF

230611R2_1

1,2,3,4,6,7,8-HpCDF:36.89;4.29e4;663477



230611R2_1

1,2,3,4,6,7,8-HpCDF:36.89;4.33e4;659026



13C-1,2,3,4,6,7,8-HpCDF

230611R2_1

13C-1,2,3,4,6,7,8-HpCDF:36.88;6.24e4;964897



230611R2_1

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DPE4

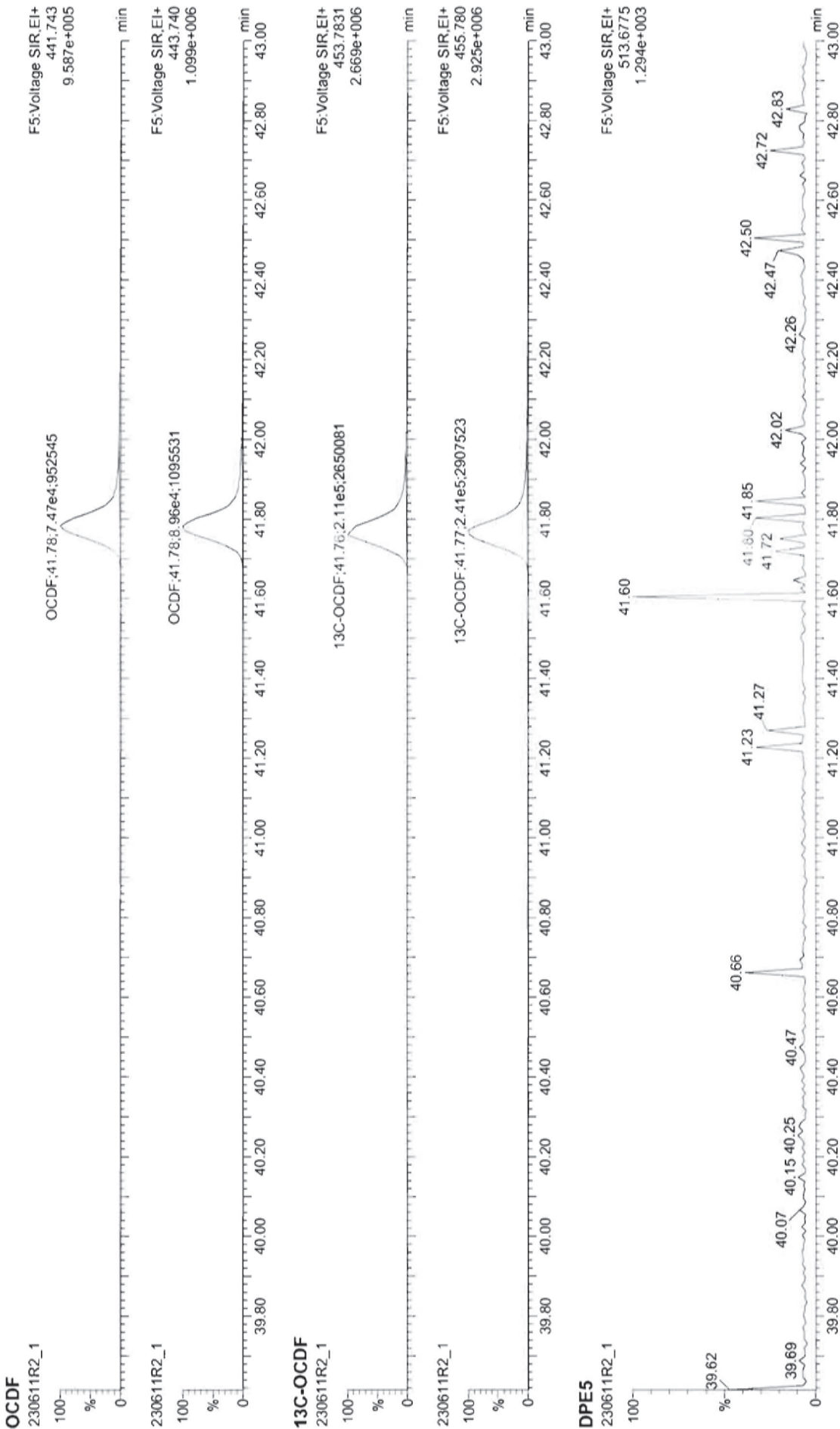
230611R2_1



Dataset: Untitled

Last Altered: Monday, June 12, 2023 09:28:55 Pacific Daylight Time
Printed: Monday, June 12, 2023 09:29:46 Pacific Daylight Time

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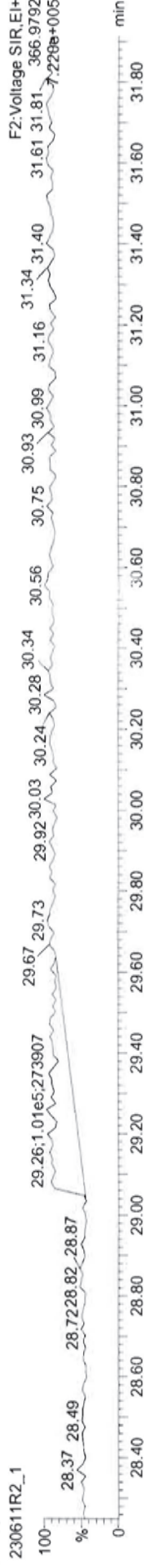
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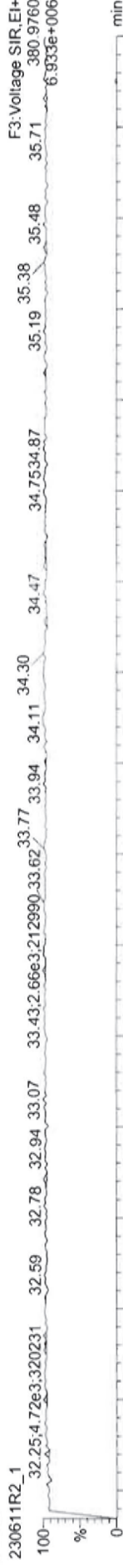
PFK1



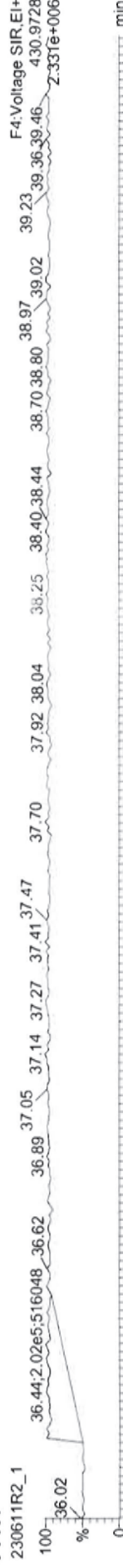
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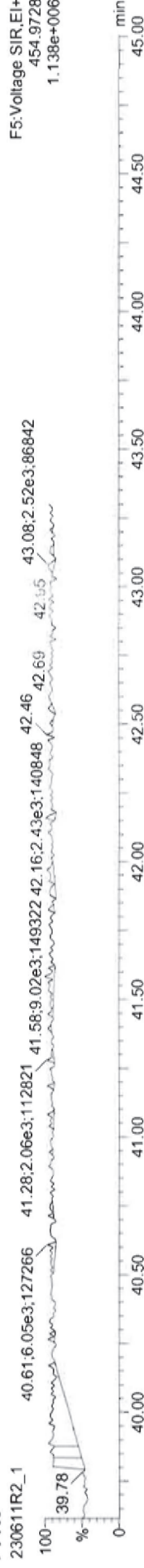
PFK3



PFK4



PFK5

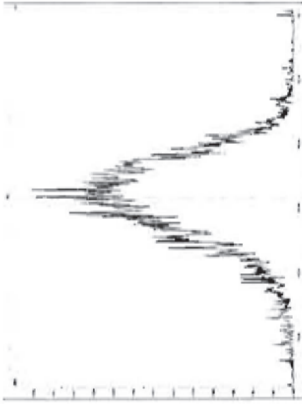


Resolution Check Report

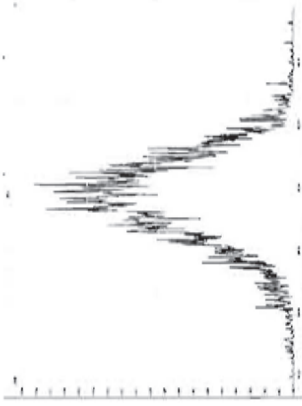
MassLynx 4.1 SCN815

Printed: Monday, June 12, 2023 01:11:47 Pacific Daylight Time

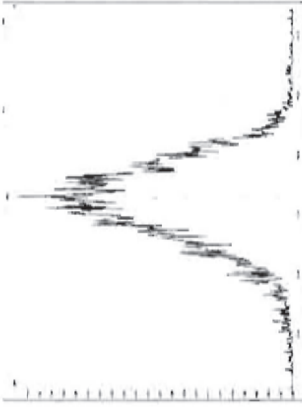
M 292.9824 R 12081



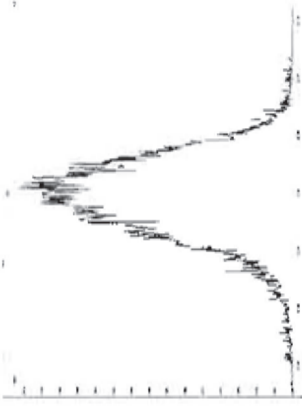
M 304.9824 R 13033



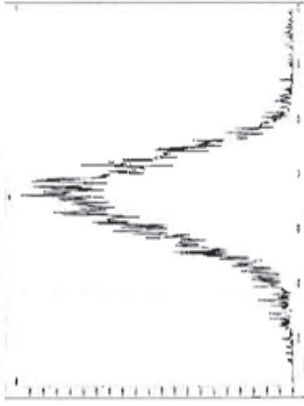
M 318.9792 R 12499



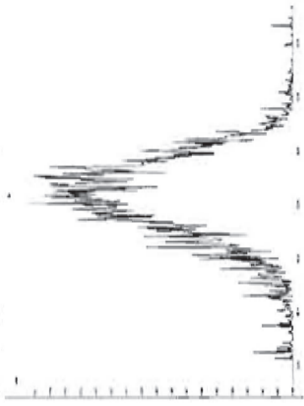
M 330.9792 R 11261



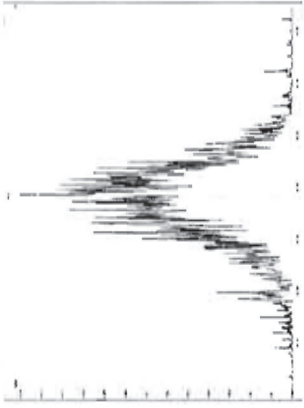
M 342.9792 R 11245



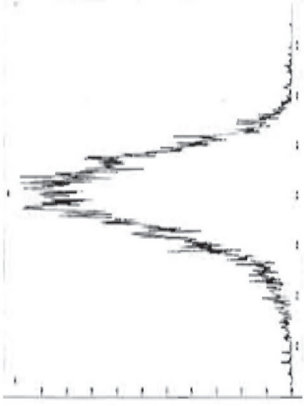
M 354.9792 R 13778



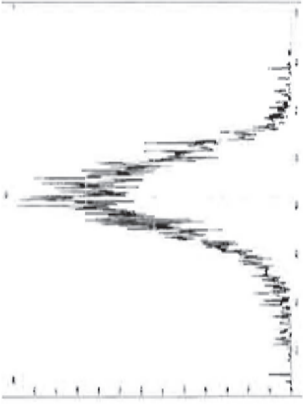
M 366.9792 R 14099



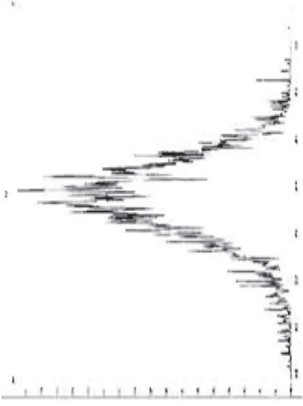
M 380.9760 R 11831



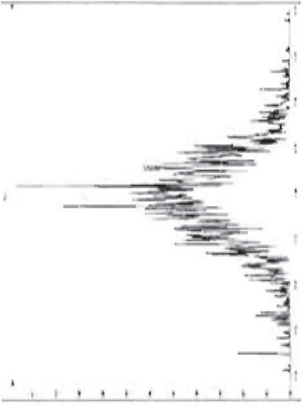
M 392.9760 R 12106



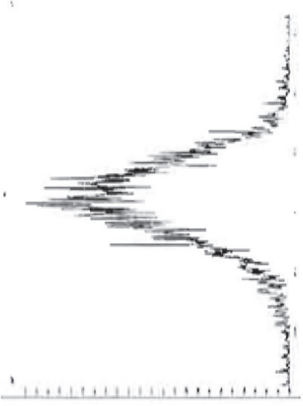
M 404.9760 R 13158



M 416.9760 R 15374



M 318.9792 R 12412



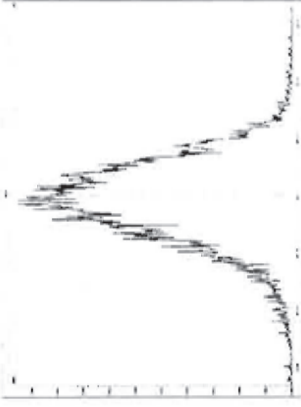
Resolution Check Report

MassLynx 4.1 SCN815

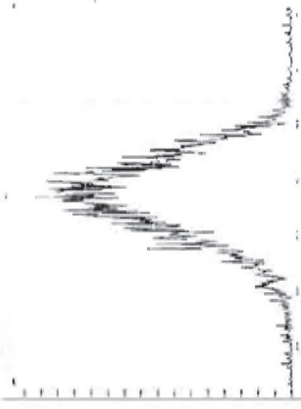
Page 2 of 4

Printed: Monday, June 12, 2023 01:11:47 Pacific Daylight Time

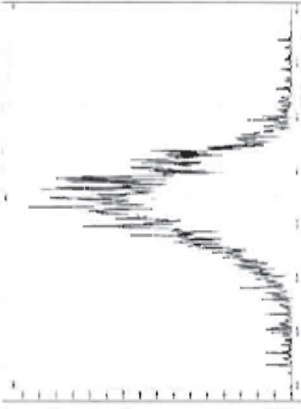
M 330.9792 R 11737



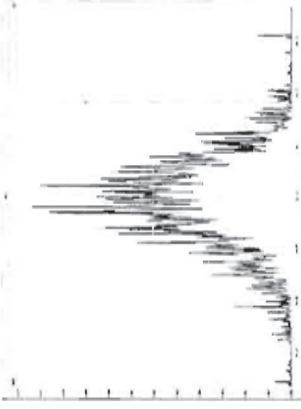
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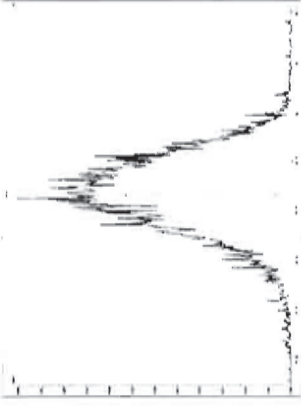
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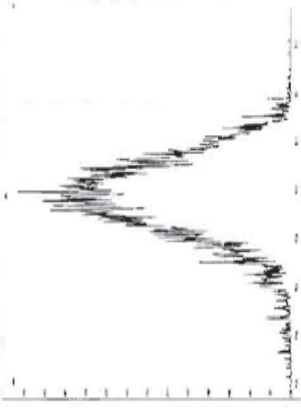
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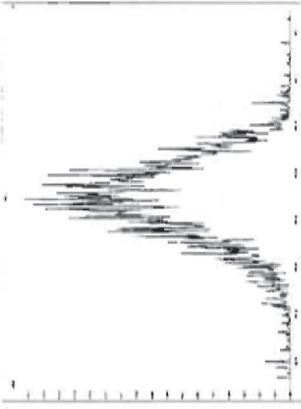
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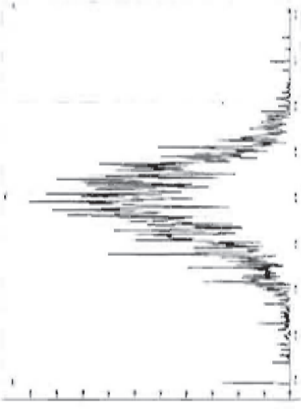
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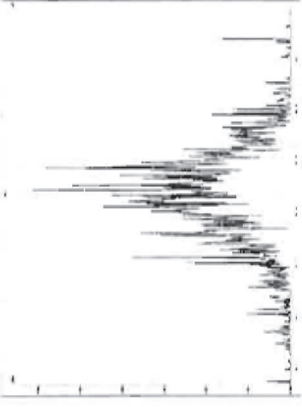
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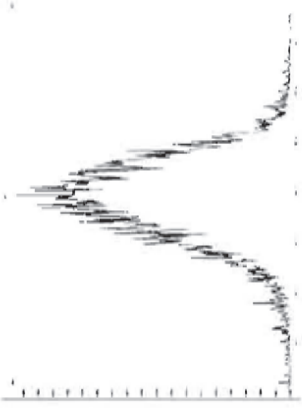
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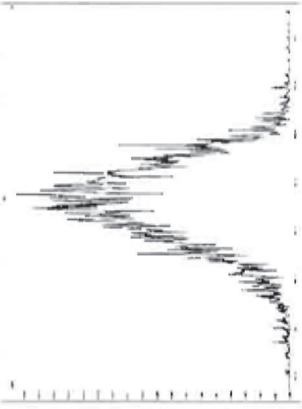
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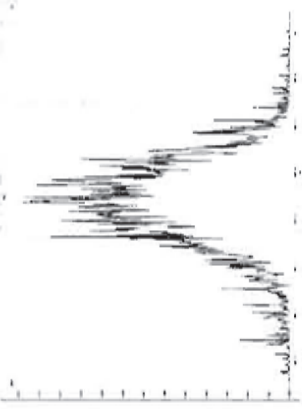
M 380.9760 R 11487



M 392.9760 R 13689



M 404.9760 R 12759



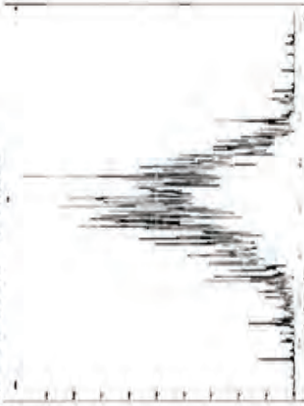
Resolution Check Report

MassLynx 4.1 SCN815

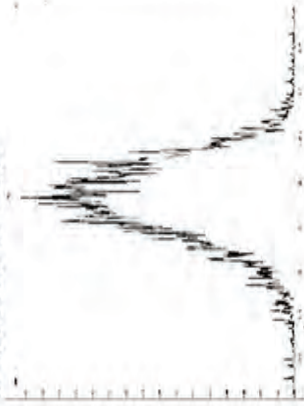
Page 3 of 4

Printed: Monday, June 12, 2023 01:11:47 Pacific Daylight Time

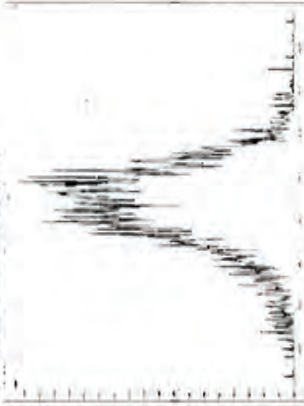
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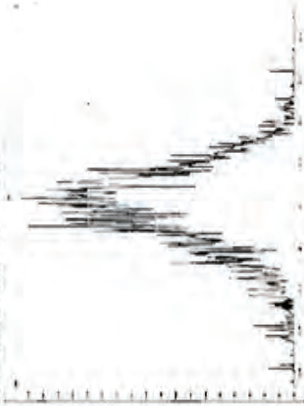
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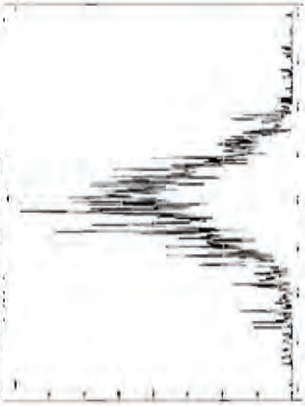
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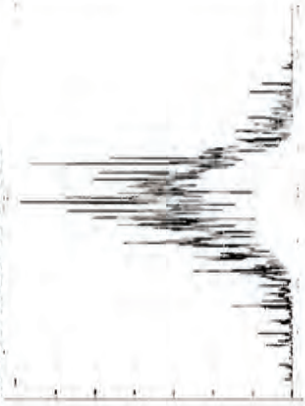
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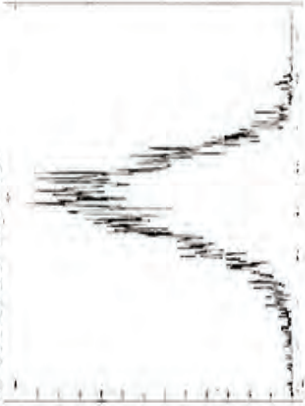
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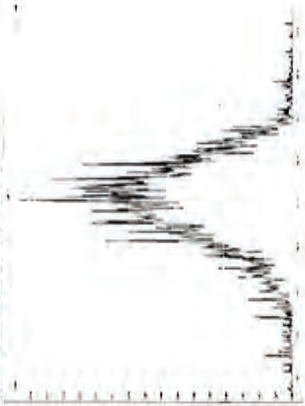
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M 430.9728 R 11467



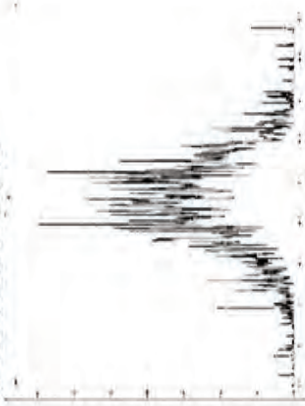
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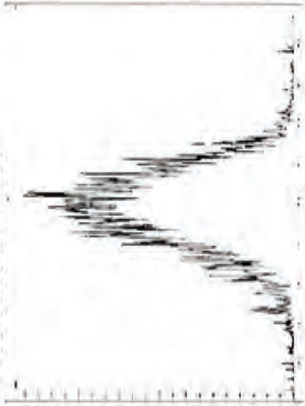
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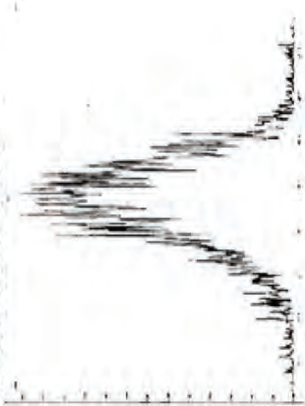
M 466.9728 R 13719



M 480.9696 R 12533



M 430.9728 R 12811

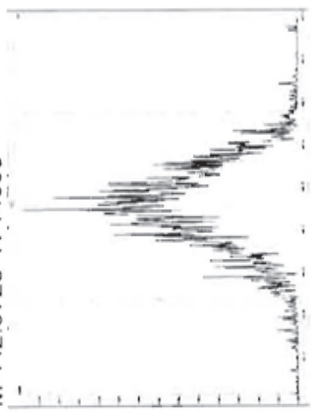


Resolution Check Report

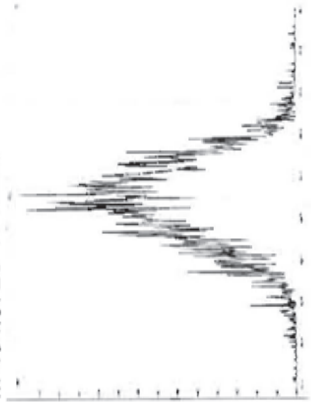
MassLynx 4.1 SCN815

Printed: Monday, June 12, 2023 01:11:47 Pacific Daylight Time

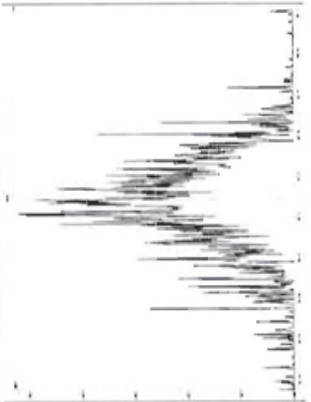
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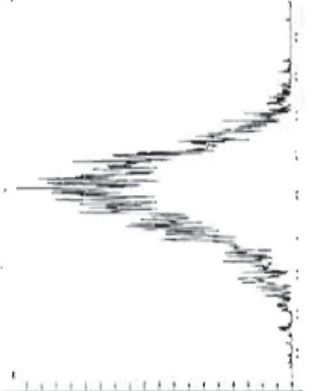
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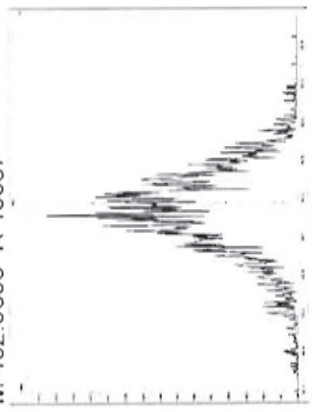
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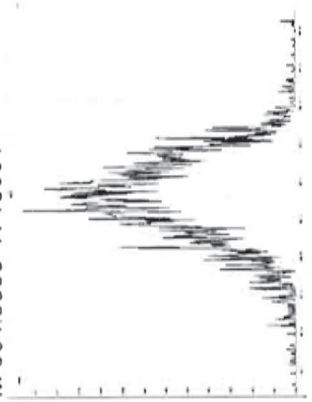
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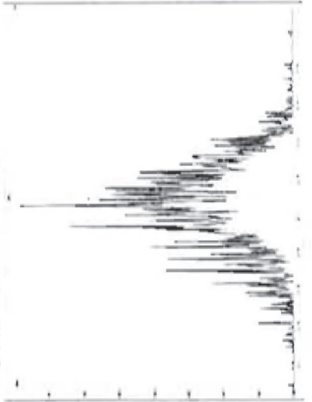
M 492.9696 R 13367



M 504.9696 R 13631



M 516.9697 R 14882



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: 523061QR2-1

Reviewed By: _____

End Calibration ID: 5123061QR3-1

Initials & Date

Beg. End

Beg. End

Ion abundance within QC limits?

☒ ☒

☒ ☒

Concentrations within criteria?

☒ ☒

☒ ☒

TCDD/TCDF Valleys <25%

☒ ☒

☒ ☒

First and last eluters present?

☒ ☒

☒ ☒

Retention Times within criteria?

☒ ☒

☒ ☒

Verification Std. named correctly?

☒ ☒

☒ ☒

(ST-Year-Month-Day-VG ID)

Forms signed and dated?

☒ ☒

☒ ☒

Correct ICAL referenced?

ATM ATM

☒ ☒

Run Log:

- Correct instrument listed?

☒ ☒

☒ ☒

- Samples within 12 hour clock?

☒ ☒

☒ ☒

- Bottle position verified?

☒ ☒

☒ ☒

Comments:

Dataset: I:\VG12.PRO\Results\230610R2\230610R2-1.qld

Last Altered: Saturday, June 10, 2023 13:25:21 Pacific Daylight Time
Printed: Monday, June 12, 2023 08:16:05 Pacific Daylight Time

MAF 06.12.23

ATM 06/12/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\DIODIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	4.02e4	4.71e5	0.75	NO	0.906	26.75	26.74	NO	1.001	1.001	9.4205	94.2	NO
2	2 1,2,3,7,8-PeCDD	1.31e5	3.18e5	0.60	NO	0.745	30.98	30.98	NO	1.001	1.000	55.183	110	NO
3	3 1,2,3,4,7,8-HxCDD	1.03e5	2.49e5	1.25	NO	0.837	34.30	34.30	NO	1.000	1.000	49.748	99.5	NO
4	4 1,2,3,6,7,8-HxCDD	9.87e4	2.62e5	1.25	NO	0.782	34.44	34.42	NO	1.001	1.000	48.157	96.3	NO
5	5 1,2,3,7,8,9-HxCDD	1.03e5	2.74e5	1.28	NO	0.780	34.73	34.72	NO	1.001	1.000	48.266	96.5	NO
6	6 1,2,3,4,6,7,8-HpCDD	7.98e4	1.84e5	1.04	NO	0.903	38.07	38.08	NO	1.000	1.001	47.936	95.9	NO
7	7 OCDD	1.41e5	3.69e5	0.89	NO	0.782	41.42	41.42	NO	1.000	1.000	97.627	97.6	NO
8	8 2,3,7,8-TCDF	4.08e4	5.23e5	0.74	NO	0.852	26.13	26.14	NO	1.000	1.001	9.1476	91.5	NO
9	9 1,2,3,7,8-PeCDF	1.76e5	4.52e5	1.57	NO	0.758	29.85	29.85	NO	1.001	1.000	51.296	103	NO
10	10 2,3,4,7,8-PeCDF	1.88e5	4.39e5	1.60	NO	0.834	30.82	30.81	NO	1.001	1.000	51.351	103	NO
11	11 1,2,3,4,7,8-HxCDF	1.19e5	2.80e5	1.21	NO	0.762	33.37	33.37	NO	1.000	1.000	55.719	111	NO
12	12 1,2,3,6,7,8-HxCDF	1.20e5	3.00e5	1.21	NO	0.726	33.51	33.50	NO	1.001	1.000	55.055	110	NO
13	13 2,3,4,6,7,8-HxCDF	1.21e5	2.88e5	1.19	NO	0.756	34.19	34.19	NO	1.001	1.001	55.610	111	NO
14	14 1,2,3,7,8,9-HxCDF	9.48e4	2.34e5	1.18	NO	0.749	35.26	35.27	NO	1.000	1.001	54.206	108	NO
15	15 1,2,3,4,6,7,8-HpCDF	8.34e4	2.09e5	0.96	NO	0.754	36.89	36.88	NO	1.000	1.000	52.938	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	6.45e4	1.51e5	0.95	NO	0.792	38.77	38.78	NO	1.000	1.001	53.937	108	NO
17	17 OCDF	1.49e5	4.05e5	0.84	NO	0.669	41.77	41.77	NO	1.000	1.000	110.00	110	NO
18	18 13C-2,3,7,8-TCDD	4.71e5	4.09e5	0.76	NO	1.13	26.70	26.71	NO	1.026	1.026	102.34	102	NO
19	19 13C-1,2,3,7,8-PeCDD	3.18e5	4.09e5	0.61	NO	0.869	30.66	30.96	NO	1.178	1.189	89.541	89.5	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.49e5	2.85e5	1.28	NO	0.746	34.27	34.29	NO	1.013	1.014	116.77	117	NO
21	21 13C-1,2,3,6,7,8-HxCDD	2.62e5	2.85e5	1.27	NO	0.803	34.42	34.42	NO	1.018	1.018	114.47	114	NO
22	22 13C-1,2,3,7,8,9-HxCDD	2.74e5	2.85e5	1.24	NO	0.817	34.71	34.71	NO	1.026	1.026	117.69	118	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.84e5	2.85e5	1.03	NO	0.611	38.06	38.06	NO	1.125	1.125	105.66	106	NO
24	24 13C-OCDD	3.69e5	2.85e5	0.87	NO	0.545	41.37	41.40	NO	1.223	1.224	237.34	119	NO
25	25 13C-2,3,7,8-TCDF	5.23e5	5.41e5	0.76	NO	1.07	26.11	26.12	NO	1.003	1.003	90.098	90.1	NO
26	26 13C-1,2,3,7,8-PeCDF	4.52e5	5.41e5	1.57	NO	0.907	29.80	29.83	NO	1.145	1.146	92.167	92.2	NO
27	27 13C-2,3,4,7,8-PeCDF	4.39e5	5.41e5	1.57	NO	0.889	30.76	30.80	NO	1.181	1.183	91.356	91.4	NO
28	28 13C-1,2,3,4,7,8-HxCDF	2.80e5	2.85e5	0.50	NO	0.993	33.38	33.36	NO	0.987	0.986	98.711	98.7	NO
29	29 13C-1,2,3,6,7,8-HxCDF	3.00e5	2.85e5	0.49	NO	1.05	33.50	33.49	NO	0.990	0.990	99.859	99.9	NO
30	30 13C-2,3,4,6,7,8-HxCDF	2.88e5	2.85e5	0.49	NO	0.956	34.17	34.17	NO	1.010	1.010	105.53	106	NO

Dataset: I:\VG12.PRO\Results\230610R2\230610R2-1.qld

Last Altered: Saturday, June 10, 2023 13:25:21 Pacific Daylight Time
Printed: Monday, June 12, 2023 08:16:05 Pacific Daylight Time

Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
31	13C-1,2,3,7,8,9-HxCDF	2.34e5	2.85e5	0.49	NO	0.853	35.24	35.25	NO	1.042	1.042	96.070	96.1	NO
32	13C-1,2,3,4,6,7,8-HpCDF	2.09e5	2.85e5	0.41	NO	0.721	36.85	36.87	NO	1.090	1.090	101.64	102	NO
33	13C-1,2,3,4,7,8,9-HpCDF	1.51e5	2.85e5	0.41	NO	0.581	38.74	38.76	NO	1.146	1.146	91.048	91.0	NO
34	13C-OCDF	4.05e5	2.85e5	0.89	NO	0.718	41.76	41.76	NO	1.235	1.235	197.75	98.9	NO
35	37Cl-2,3,7,8-TCDD	3.91e4	4.09e5			0.980	26.71	26.73	NO	1.026	1.027	9.7530	97.5	NO
36	13C-1,2,3,4-TCDD	4.09e5	4.09e5	0.76	NO	1.00	26.11	26.03	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	5.41e5	5.41e5	0.78	NO	1.00	24.81	24.75	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	2.85e5	2.85e5	0.50	NO	1.00	33.84	33.82	NO	1.000	1.000	100.00	100	YES ok

Dataset: Untitled

Last Altered: Monday, June 12, 2023 07:44:51 Pacific Daylight Time
Printed: Monday, June 12, 2023 07:47:30 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Compound name: 2,3,7,8-TCDD

ⓐ Paused, RI AM 06/12/23

	Name	ID	Acq. Date	Acq. Time
1	230610R2_1	ST230610R2_1 1613 CS3 23E1003	10-Jun-23	12:36:52
2	230610R2_2	B23E100-BS3 OPR 10	10-Jun-23	13:27:07
3	230610R2_3	B23E100-BS4 OPR 10	10-Jun-23	14:11:42
4	230610R2_4	B23E130-BS1 OPR 10	10-Jun-23	14:56:41
5	230610R2_5	SOLVENT BLANK	10-Jun-23	15:41:46
6	230610R2_6	B23E015-BLK1 Method Blank 0.25	10-Jun-23	16:26:45
7	230610R2_7	B23E100-BLK4 Method Blank 10	10-Jun-23	17:11:52
8	230610R2_8	B23E100-BLK3 Method Blank 10	10-Jun-23	17:56:59
9	230610R2_9	ⓐ 2305191-01 C3E2511-01 503943 1.03812	10-Jun-23	23:17:27
10	230610R2_10	SOLVENT BLANK	11-Jun-23	00:10:52
11	230610R3_1	ST230609R3_1 1613 CS3 23E1003	11-Jun-23	00:55:30
12	230610R3_2			

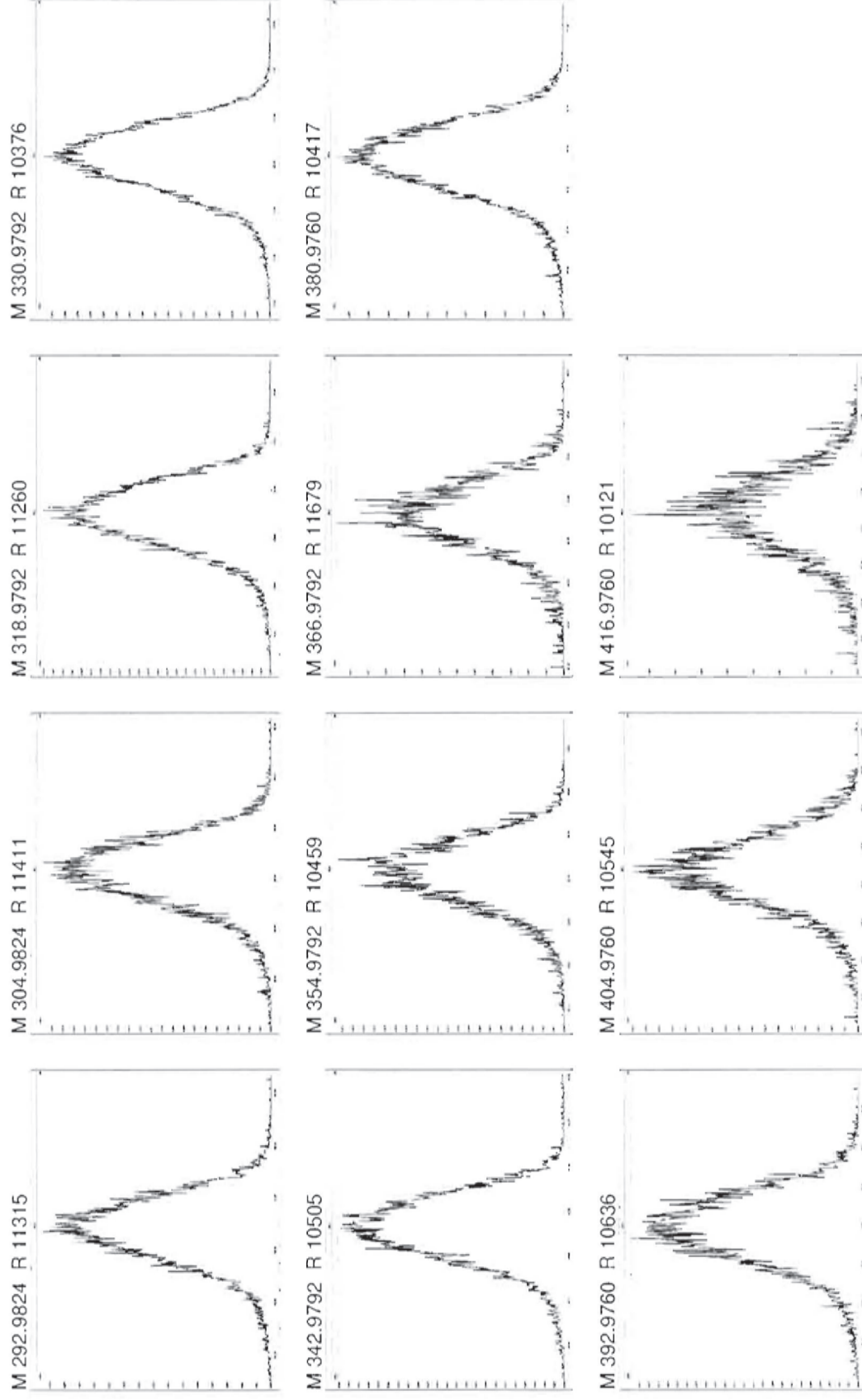
Experiment Calibration Report

MassLynx 4.1 SCN815

Page 1 of 1

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, June 10, 2023 12:32:21 Pacific Daylight Time

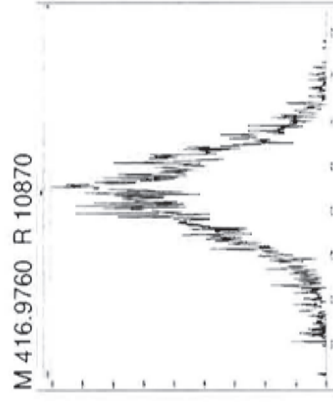
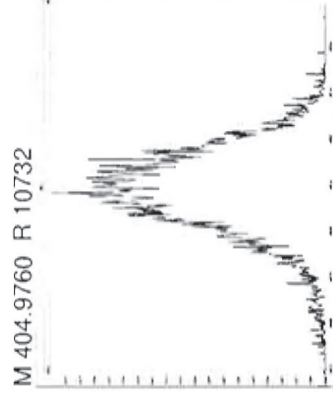
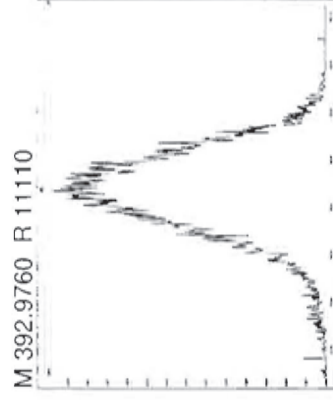
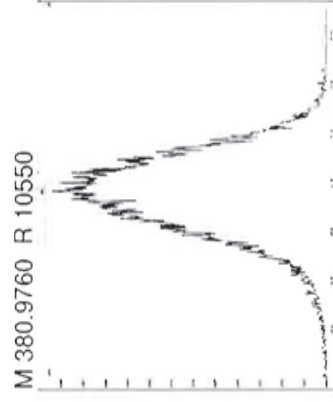
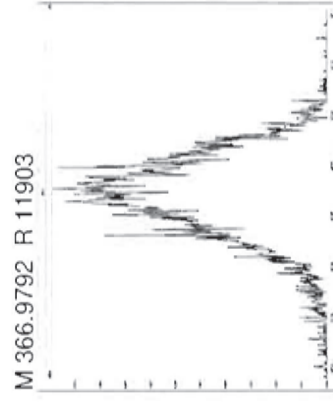
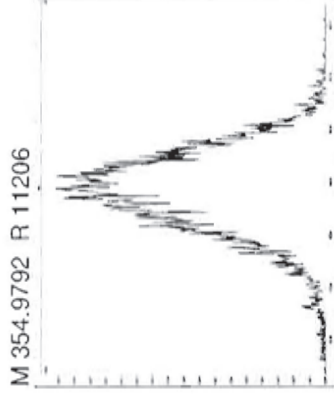
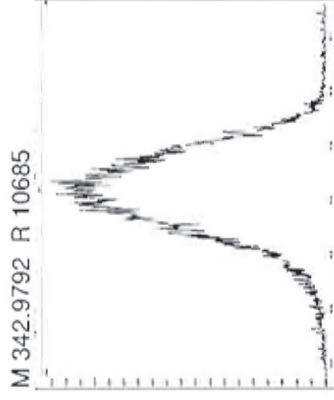
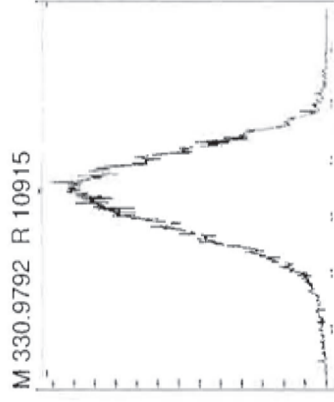
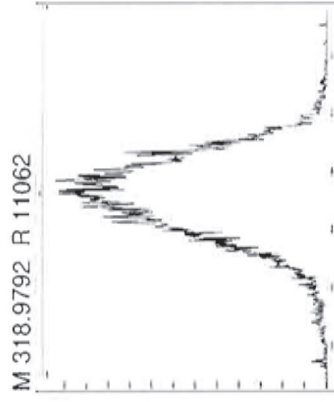


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm:)

Printed: Saturday, June 10, 2023 12:33:26 Pacific Daylight Time

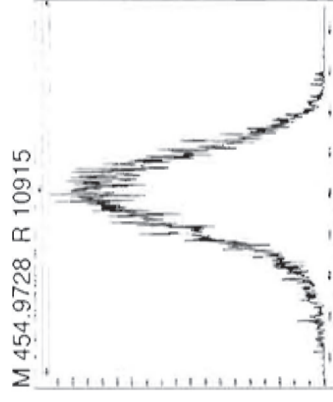
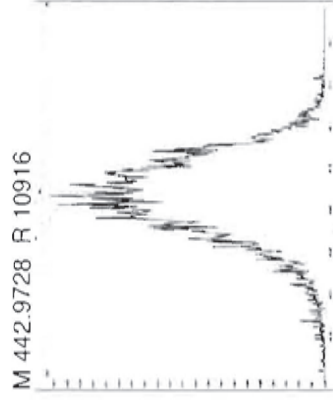
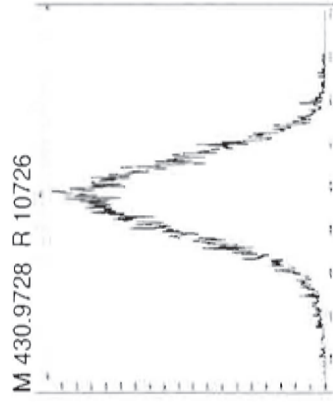
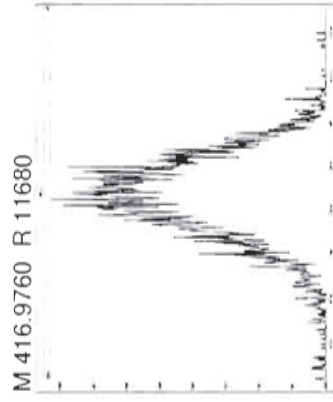
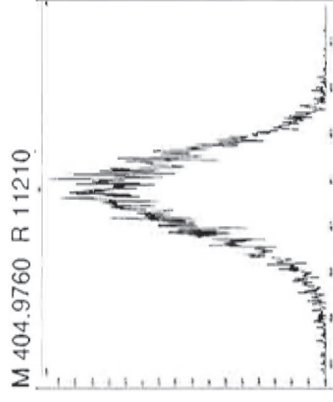
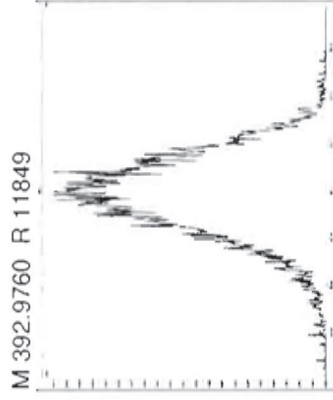
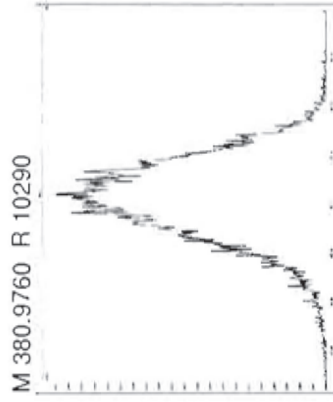
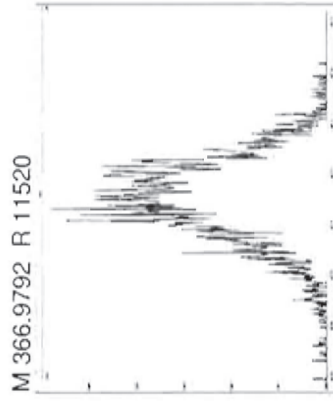


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Plk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, June 10, 2023 12:34:14 Pacific Daylight Time

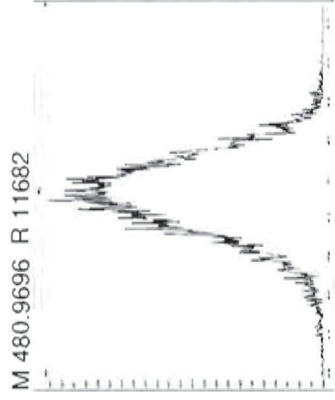
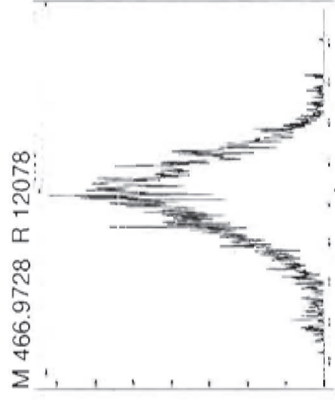
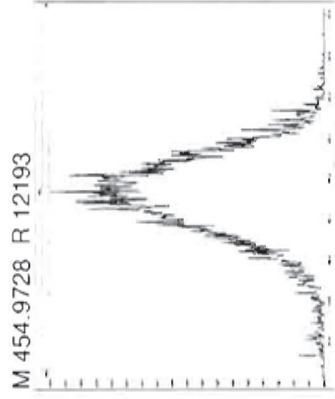
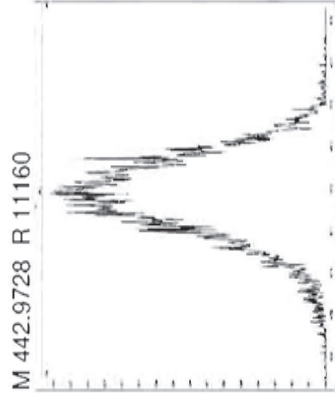
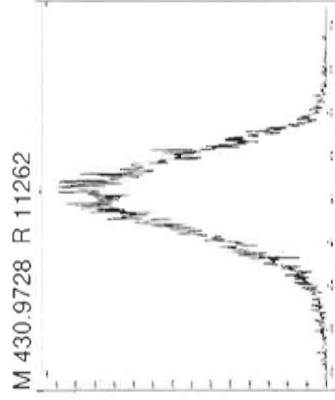
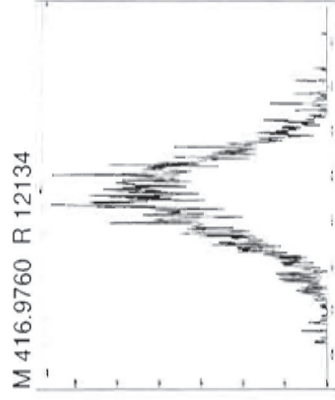
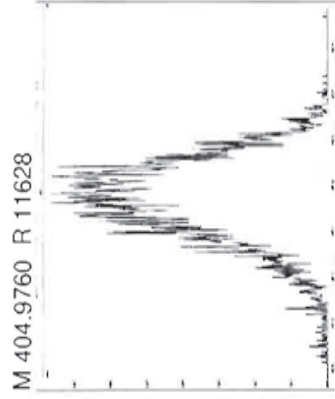


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, June 10, 2023 12:35:22 Pacific Daylight Time



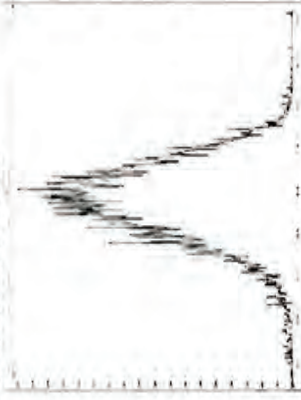
Experiment Calibration Report

MassLynx 4.1 SCN815

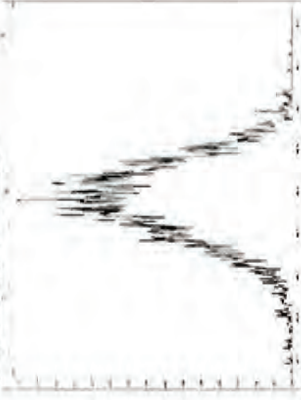
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, June 10, 2023 12:35:53 Pacific Daylight Time

M 430.9728 R 11520



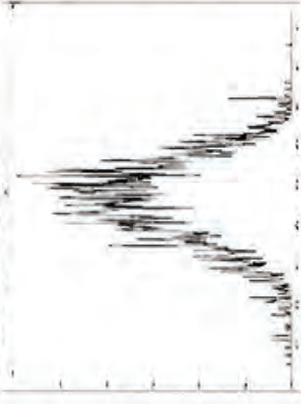
M 442.9728 R 11522



M 454.9728 R 11013



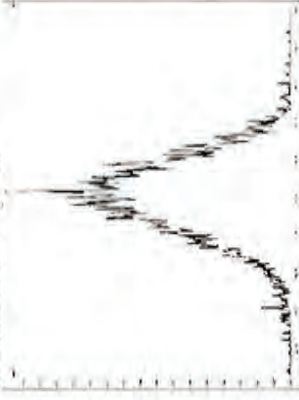
M 466.9728 R 12257



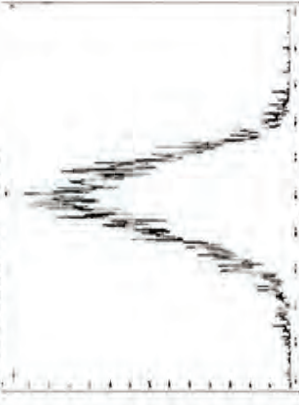
M 480.9696 R 11212



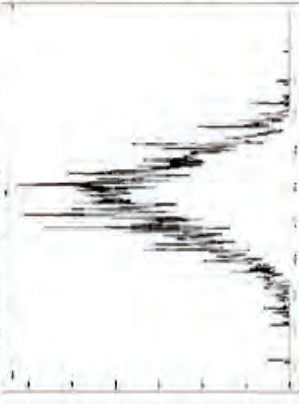
M 492.9696 R 11415



M 504.9696 R 11576



M 516.9697 R 12567



Dataset: Untitled

Last Altered: Monday, June 12, 2023 08:12:07 Pacific Daylight Time
Printed: Monday, June 12, 2023 08:13:15 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSPM.mdb 24 May 2023 17:45:01
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

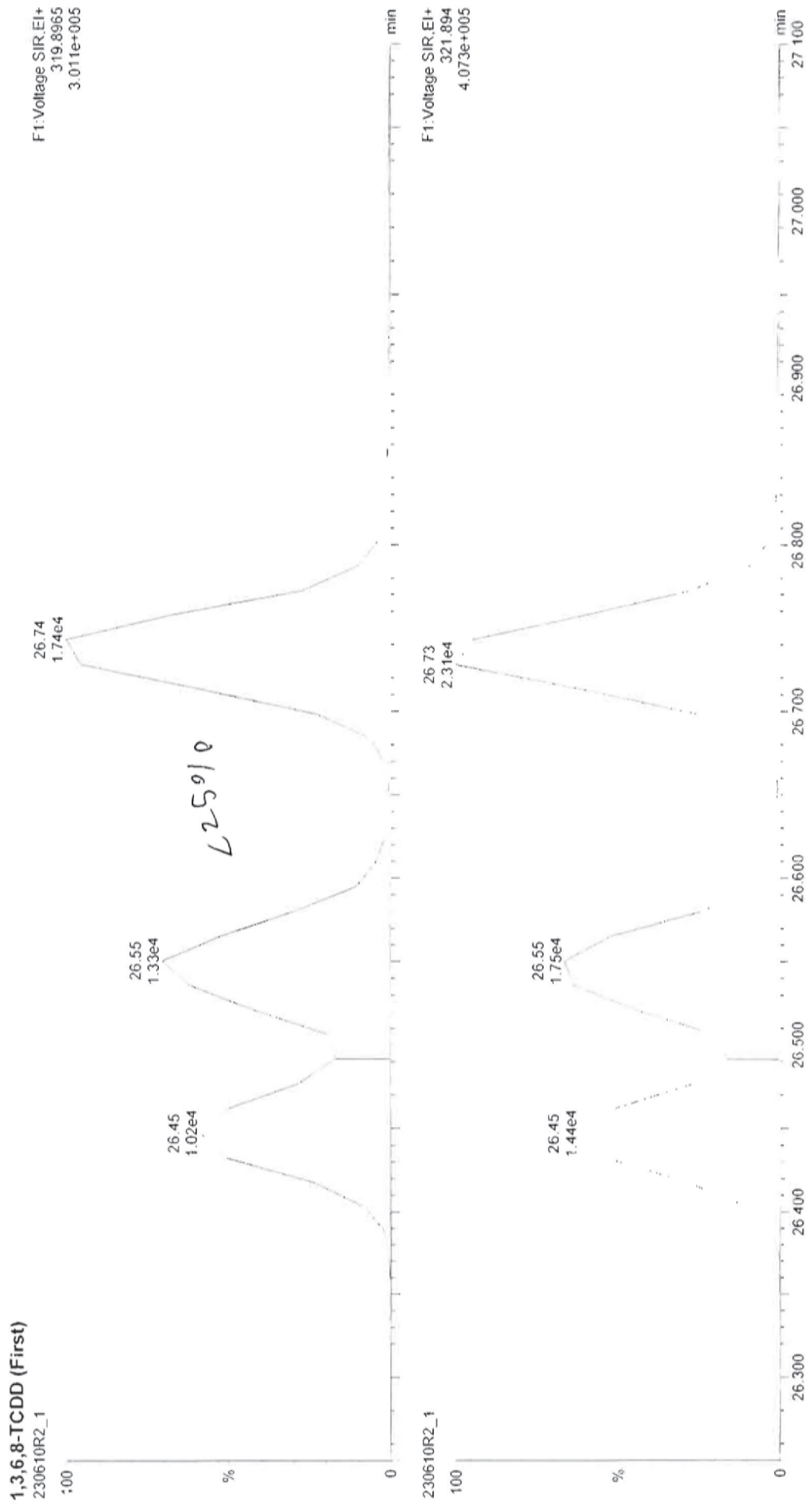
#	Name	RT
1	1,3,6,8-TCDD (First)	23.45
2	1,2,8,9-TCDD (Last)	27.54
3	3,1,2,4,7,9-PeCDD (First)	28.91
4	4,1,2,3,8,9-PeCDD (Last)	31.32
5	5,1,2,4,6,7,9-HxCDD (First)	32.59
6	6,1,2,3,7,8,9-HxCDD (Last)	34.72
7	7,1,2,3,4,6,7,9-HpCDD (First)	37.19
8	8,1,2,3,4,6,7,8-HpCDD (Last)	38.08
9	9,1,3,6,8-TCDF (First)	21.39
10	10,1,2,8,9-TCDF (Last)	27.84
11	11,1,3,4,6,8-PeCDF (First)	27.42
12	12,1,2,3,8,9-PeCDF (Last)	31.67
13	13,1,2,3,4,6,8-HxCDF (First)	32.06
14	14,1,2,3,7,8,9-HxCDF (Last)	35.27
15	15,1,2,3,4,6,7,8-HpCDF (First)	36.88
16	16,1,2,3,4,7,8,9-HpCDF (Last)	38.78

Dataset: Untitled

Last Altered: Monday, June 12, 2023 08:12:07 Pacific Daylight Time
Printed: Monday, June 12, 2023 08:13:15 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSPM.mdb 24 May 2023 17:45:01
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

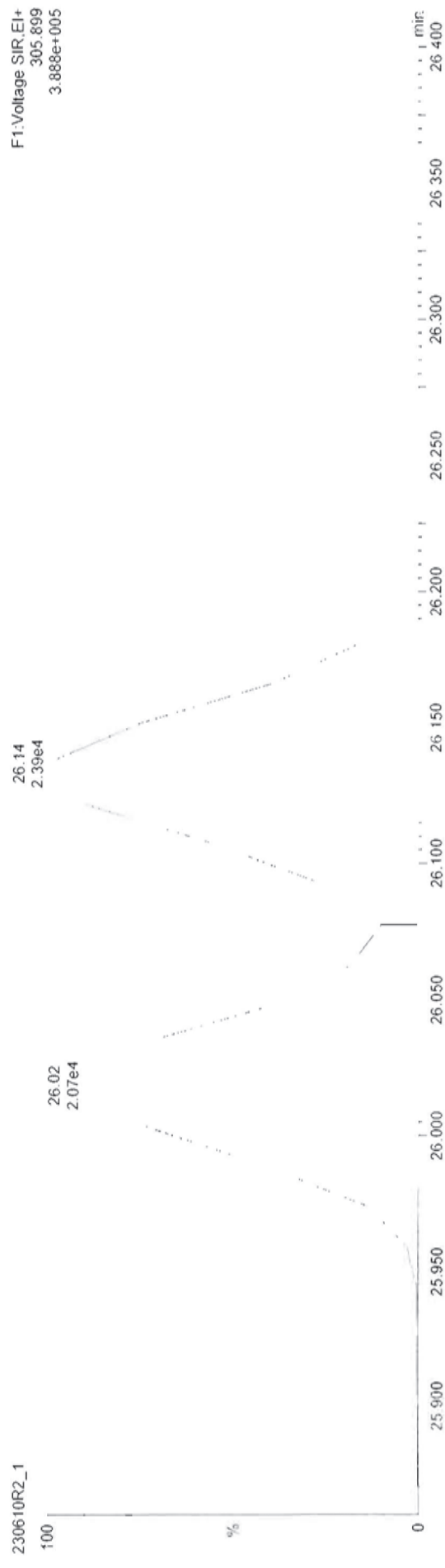
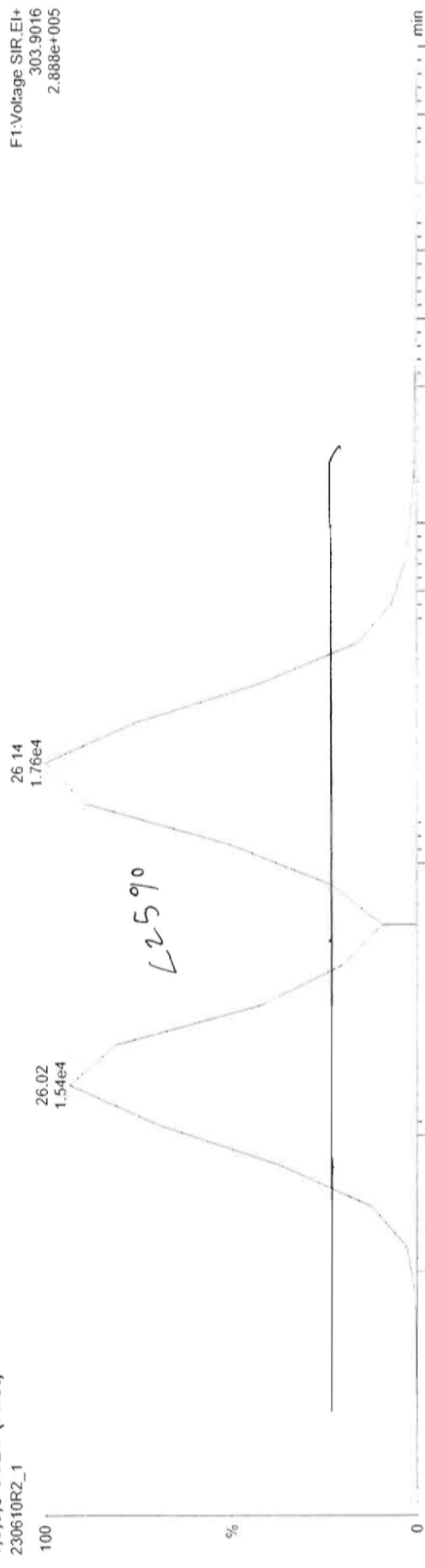


Dataset: Untitled

Last Altered: Monday, June 12, 2023 08:12:07 Pacific Daylight Time
Printed: Monday, June 12, 2023 08:13:15 Pacific Daylight Time

Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,3,6,8-TCDF (First)



Dataset: Untitled

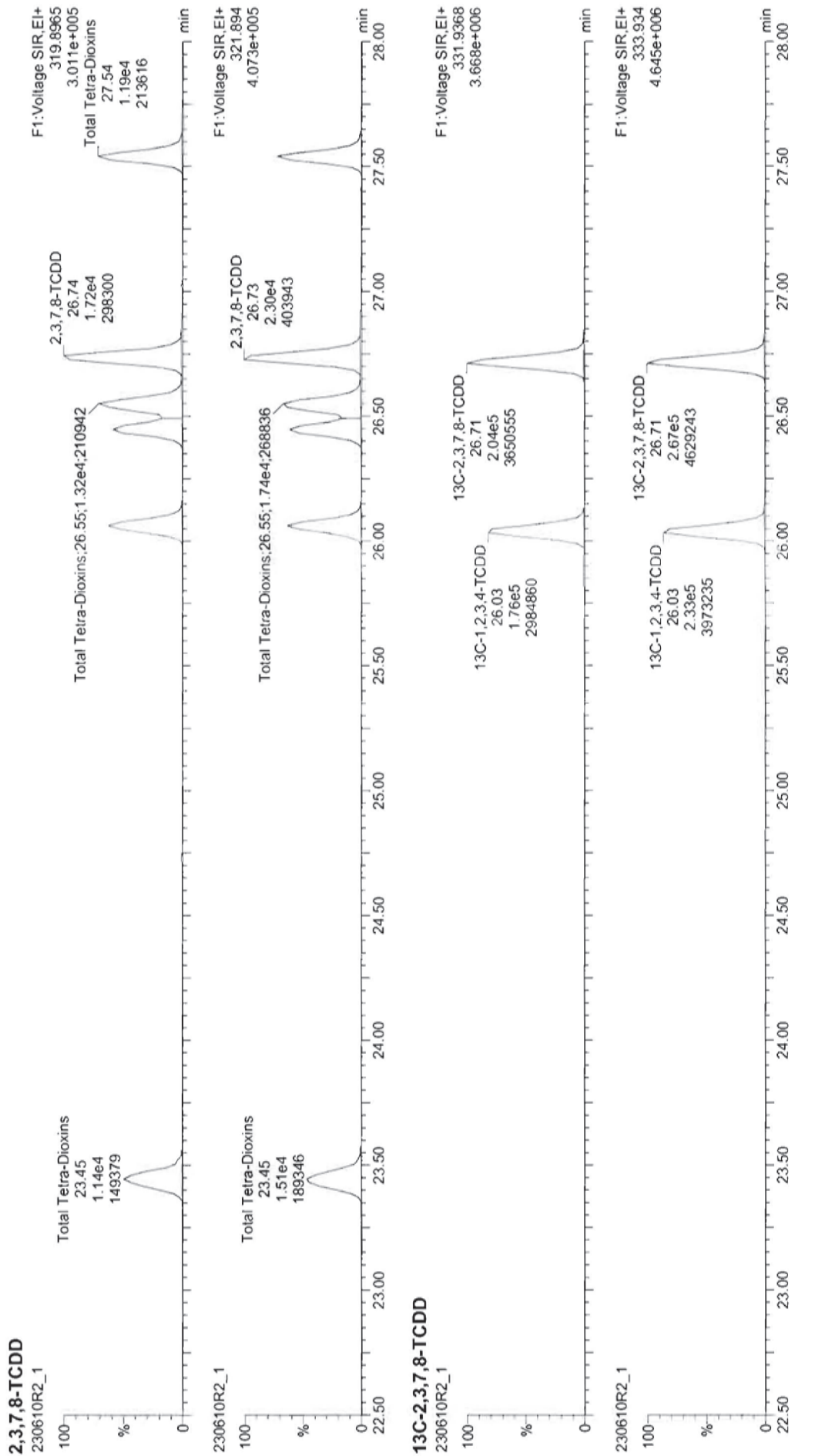
Last Altered: Monday, June 12, 2023 08:26:19 Pacific Daylight Time

Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

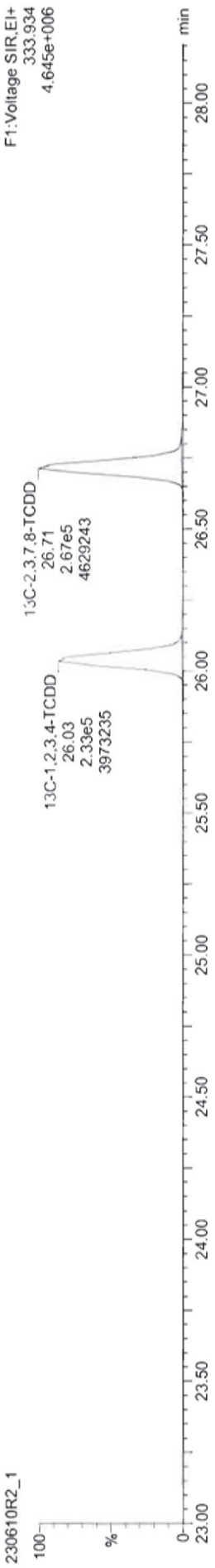
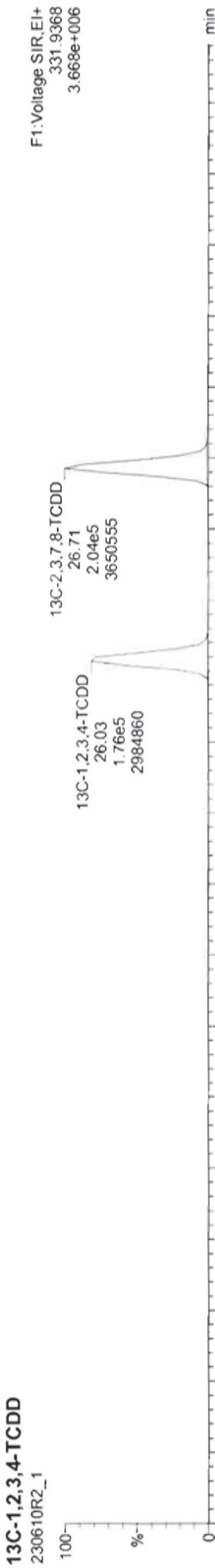
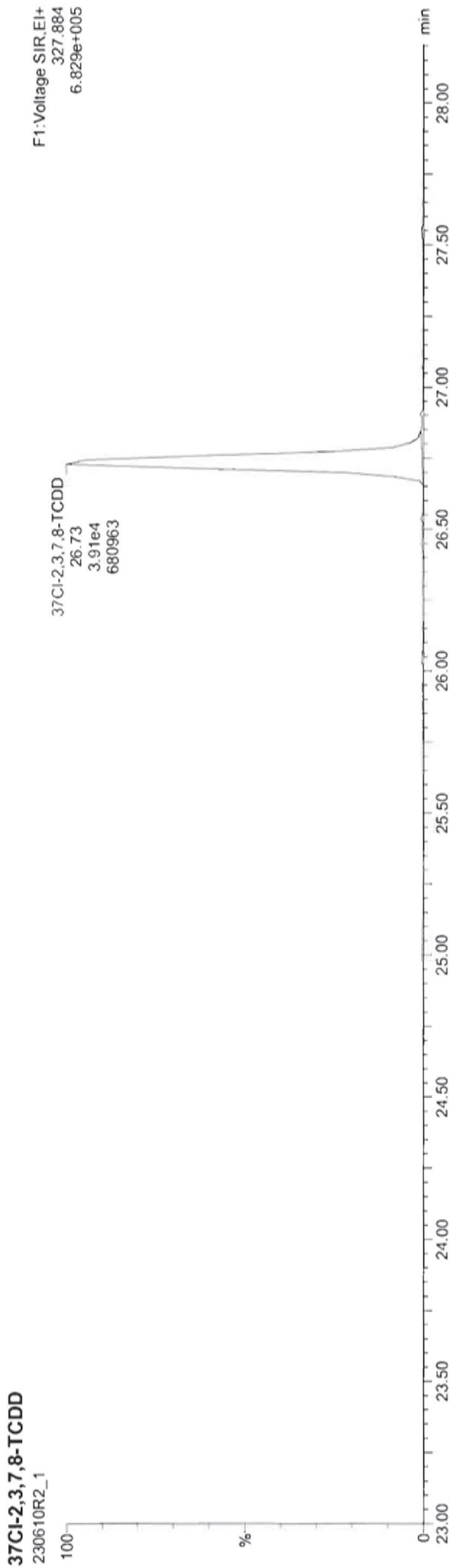
Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04

Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-02-23.cdb 03 Jun 2023 08:46:31

Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



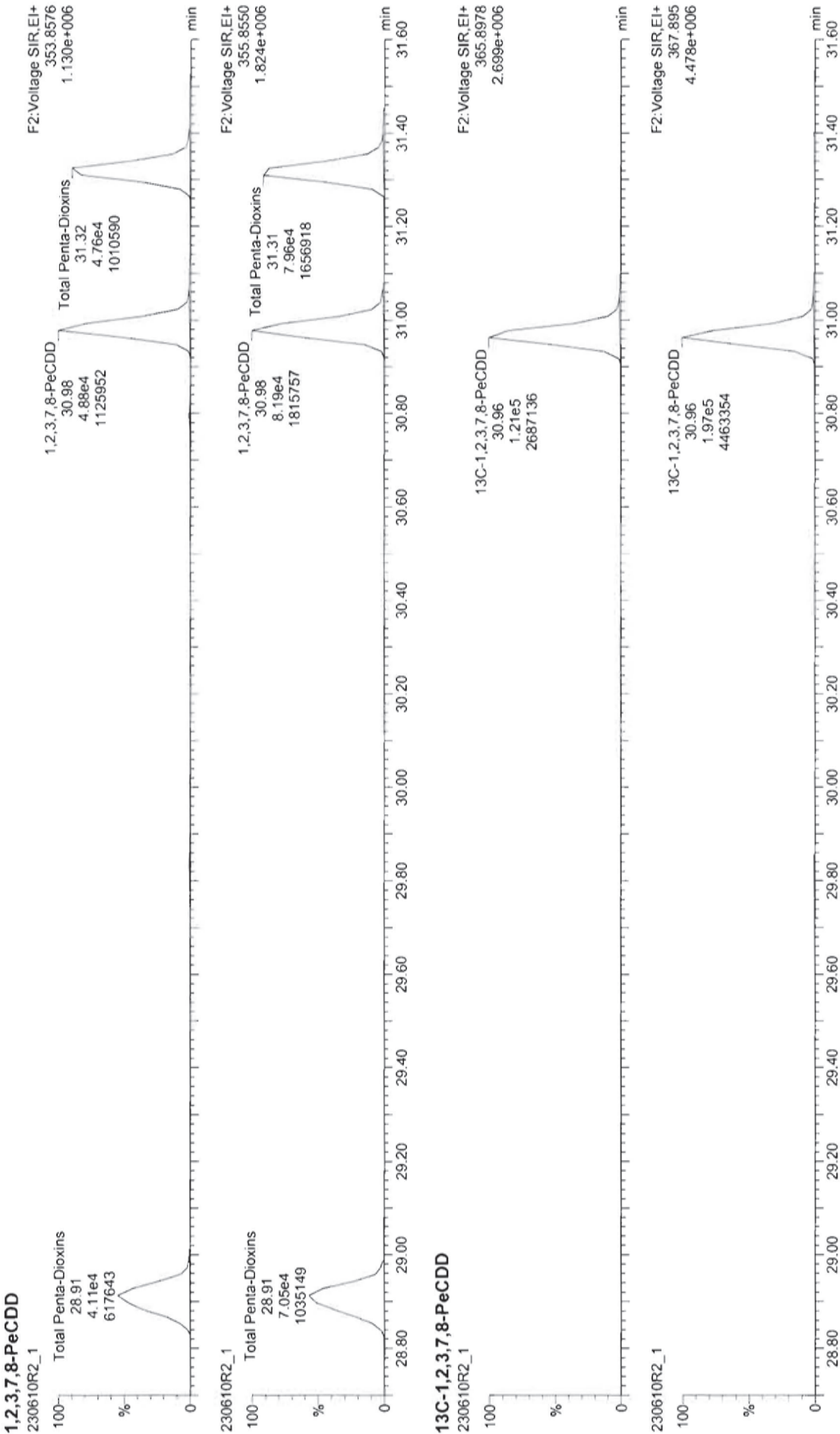
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Dataset: Untitled

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Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

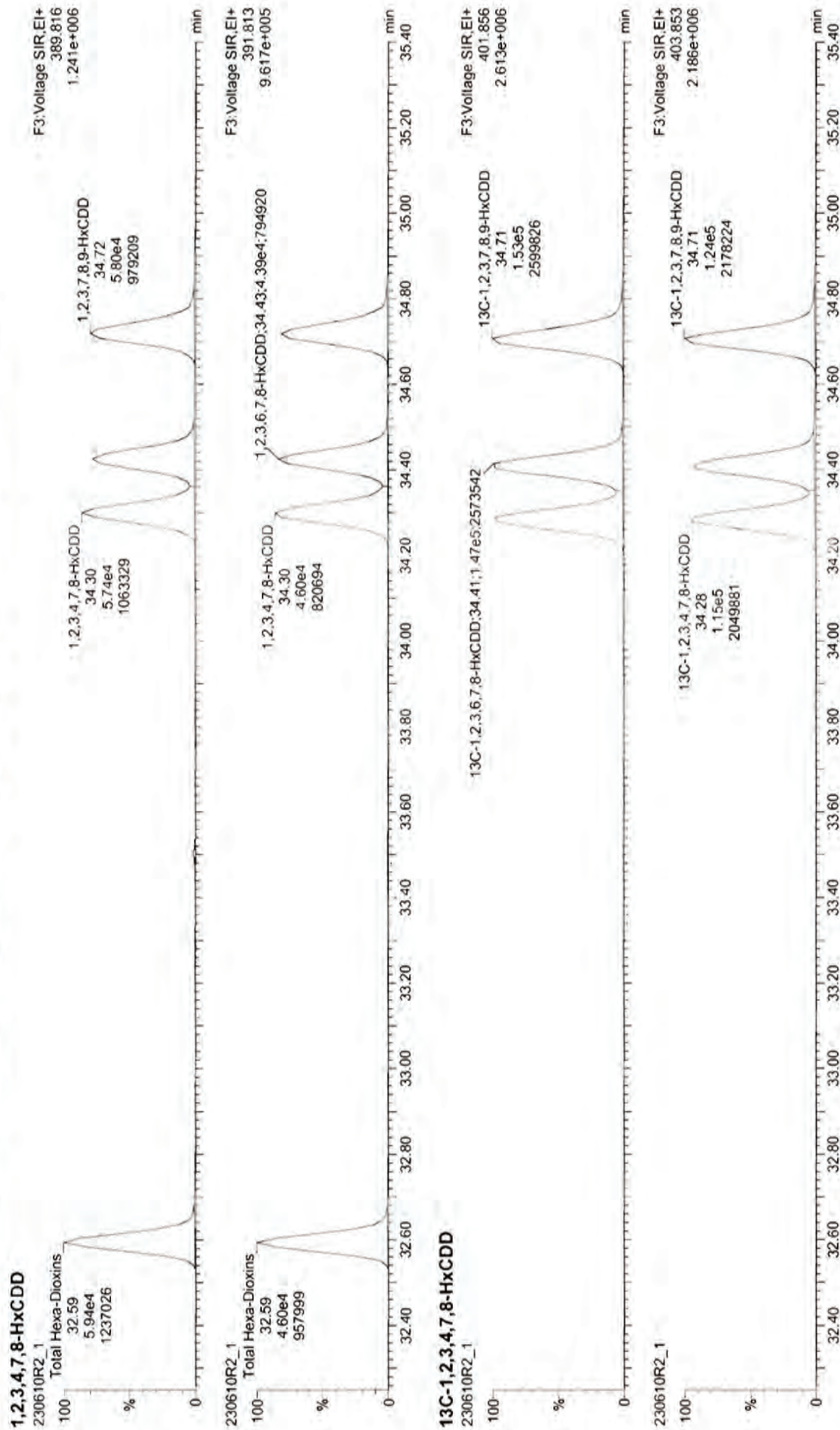
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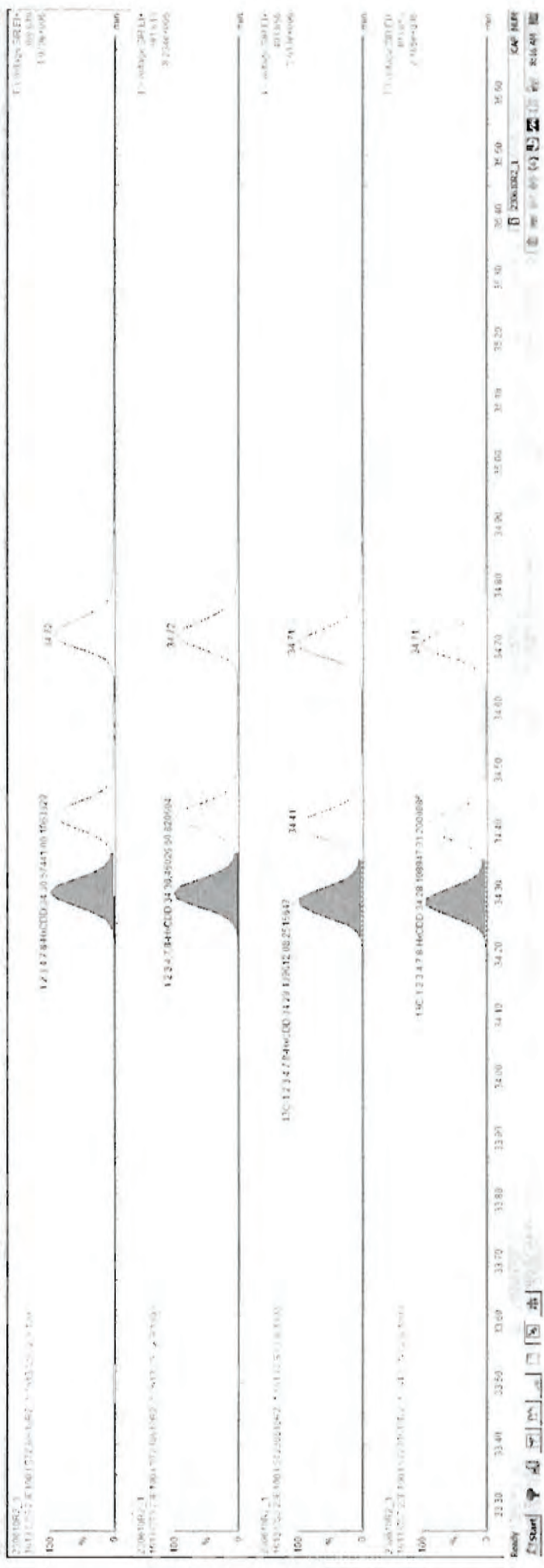
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Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

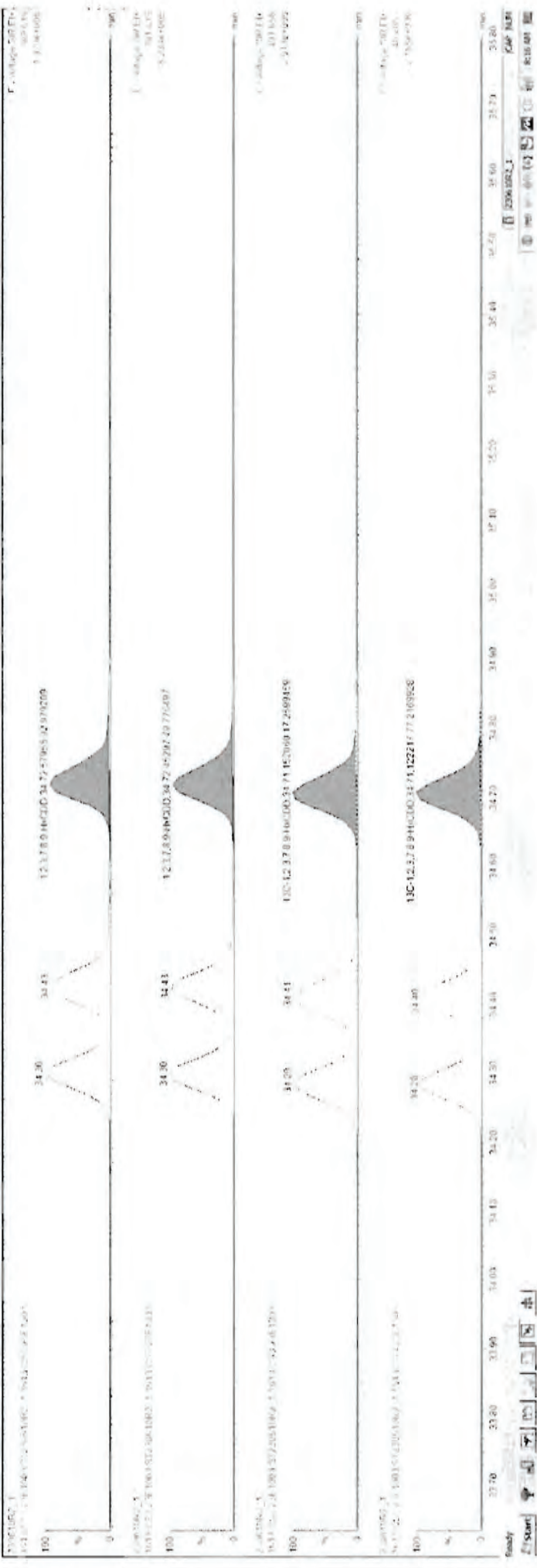
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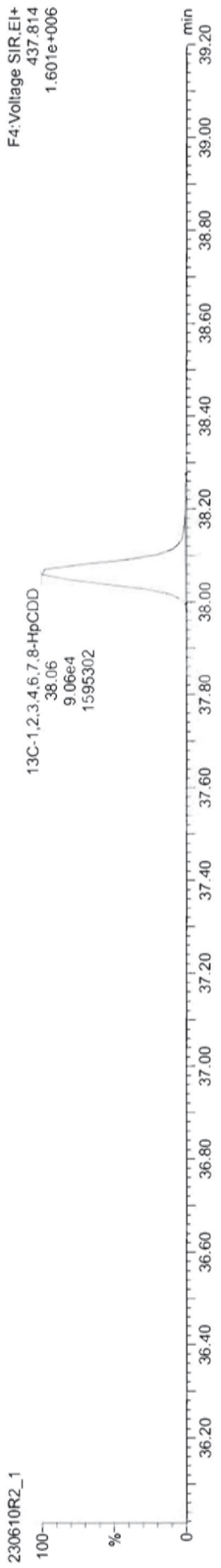
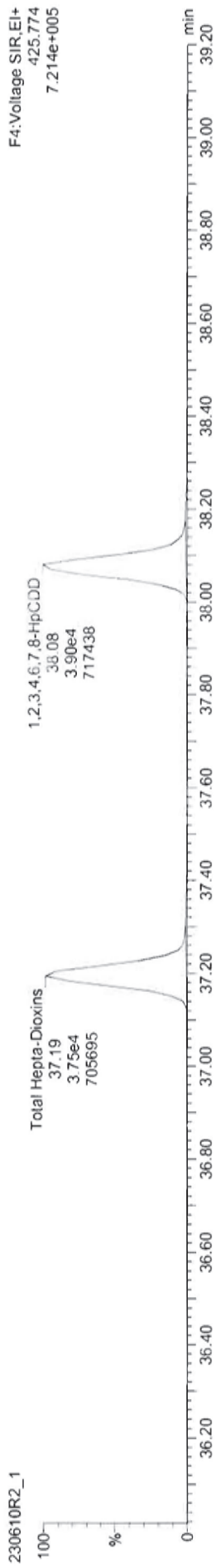
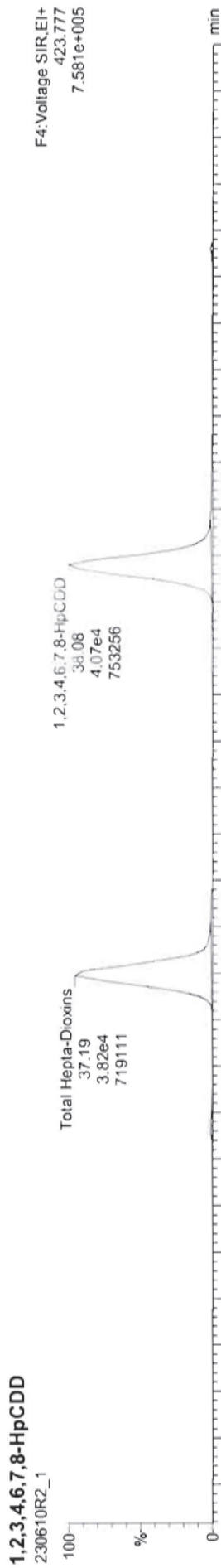
23051002-1 - ST23051002-1 1613 C53 23E1003 - 1613 C53 23E1003														
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2	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
3	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
4	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
5	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
6	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
7	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
8	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
9	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
10	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
11	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
12	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
13	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
14	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
15	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
16	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05
17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05	4.21E5	0.17	1.2378	1.00E+05



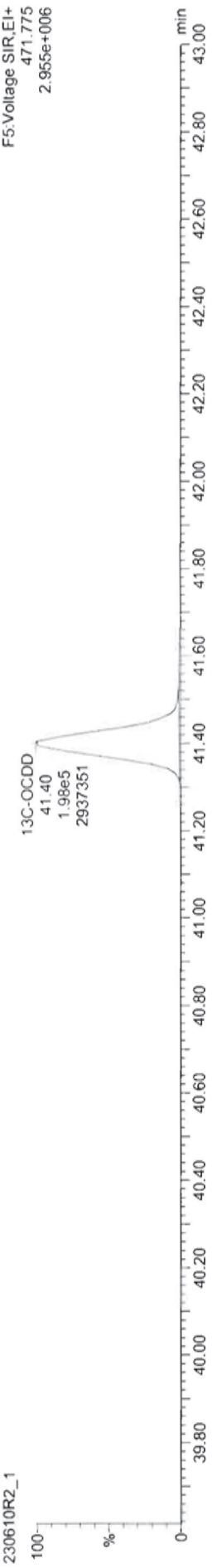
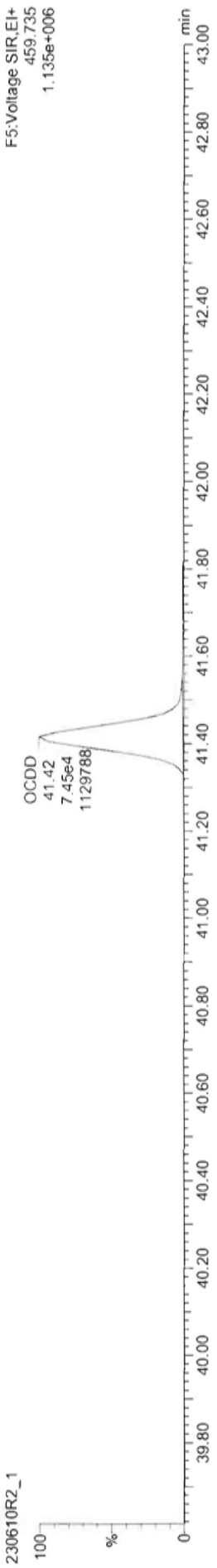
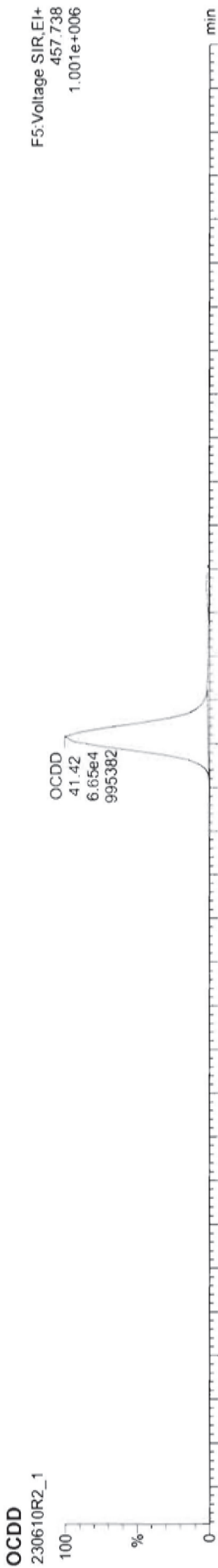
#	Name	Resp	IS Resp	Prod RA	RA	RV	PPF	ProdROT	RT	RT Flag	Prod ROT	SWT	Corr.	%Sec	STD rad
1	12 37 8.75C	4.064	4.114	6.71	0.71	60	0.9053	28.79	28.74	NO	1.021	1.001	0.47	54.2	90
2	12 37 8.75C	1.3145	2.164	0.63	0.60	60	0.7447	23.96	30.58	NO	1.001	1.002	0.47	181	90
3	12 37 8.75C	1.0345	1.0345	1.24	1.25	60	0.6308	4.39	4.70	NO	1.002	1.005	0.47	99.5	90
4	12 37 8.75C	3.6784	2.5294	1.24	1.25	60	0.7621	54.84	14.47	NO	1.031	1.005	0.62	96.3	90
5	12 37 8.75C	1.0345	2.164	1.24	1.25	60	0.7605	28.79	34.72	NO	1.031	1.050	0.62	96.3	90
6	12 37 8.75C	1.6145	1.6145	1.64	1.64	60	0.9013	78.67	33.65	NO	1.001	1.001	0.71	56.9	90
7	12 37 8.75C	1.4145	2.164	0.65	0.65	60	0.5318	11.42	11.42	NO	1.002	1.000	0.71	37.6	90
8	12 37 8.75C	4.064	5.234	0.45	0.44	60	0.6539	38.81	38.81	NO	1.002	1.001	0.71	31.6	90
9	12 37 8.75C	4.234	4.234	1.63	1.63	60	0.7476	29.29	39.64	NO	1.001	1.006	1.13	103	90
10	12 37 8.75C	1.604	4.234	1.63	1.60	60	0.6363	29.52	39.64	NO	1.001	1.004	1.16	103	90
11	12 37 8.75C	1.1645	2.164	1.21	1.21	60	0.9222	34.37	13.72	NO	1.002	1.000	1.17	111	90
12	12 37 8.75C	2.164	1.21	1.61	0.794	60	0.7394	24.11	13.93	NO	1.001	1.002	1.17	110	90
13	12 37 8.75C	1.1645	2.164	1.21	1.15	60	0.7565	18.11	24.16	NO	1.004	1.004	1.17	110	90
14	12 37 8.75C	2.164	2.164	1.12	1.12	60	0.7402	21.24	25.17	NO	1.002	1.001	1.17	106	90
15	12 37 8.75C	2.164	2.164	1.01	0.96	60	0.7539	26.89	26.68	NO	1.002	1.000	1.17	106	90
16	12 37 8.75C	1.1645	1.1645	0.96	0.96	60	0.7324	26.75	26.75	NO	1.001	1.001	1.17	105	90
17	12 37 8.75C	1.164	1.164	0.85	0.84	60	0.6994	41.77	41.77	NO	1.002	1.000	1.15	110	90



Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003



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Last Altered: Monday, June 12, 2023 08:26:19 Pacific Daylight Time
Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

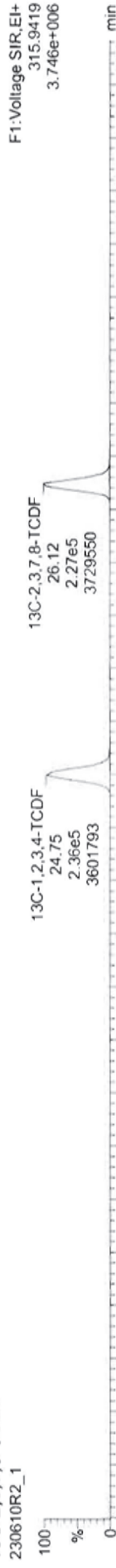
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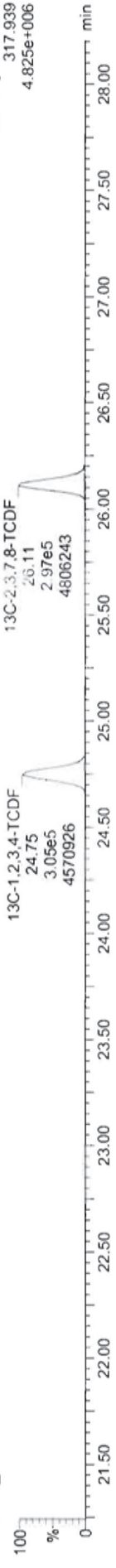
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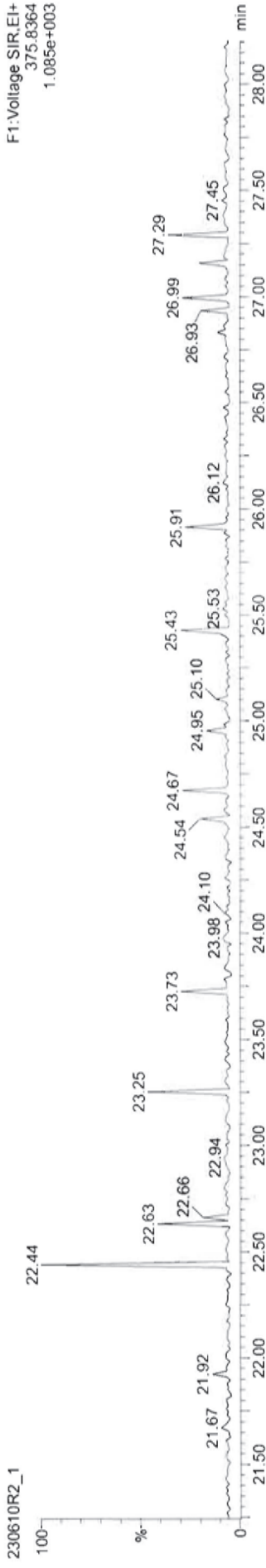
13C-2,3,7,8-TCDF



230610R2_1



DPE1



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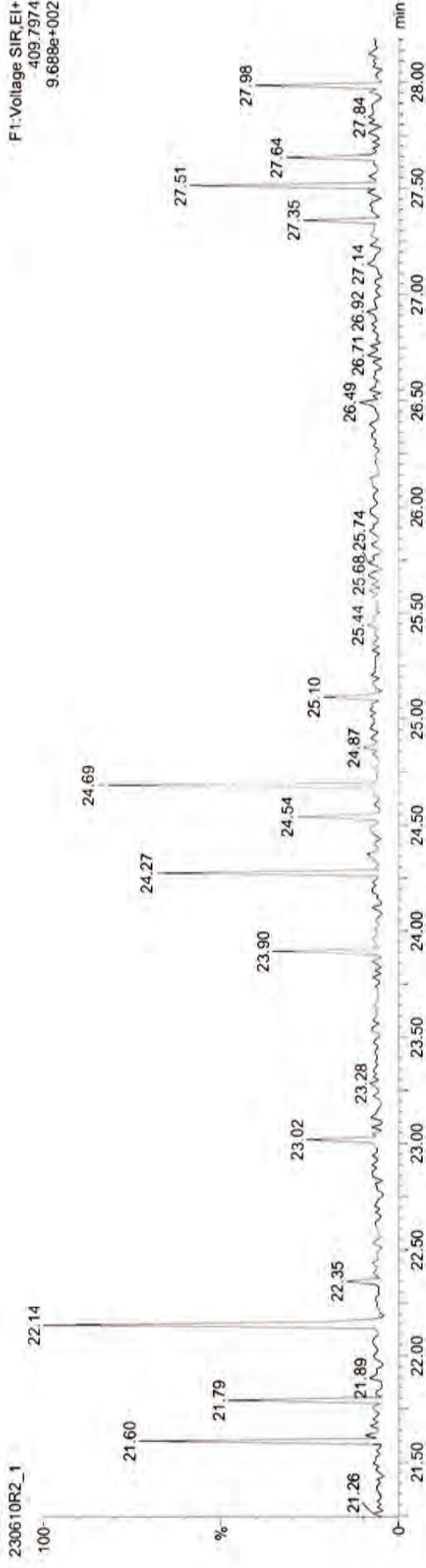
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Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1st Func. Penta-Furans



DPE6



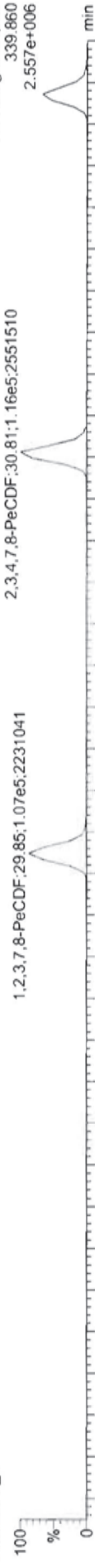
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Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

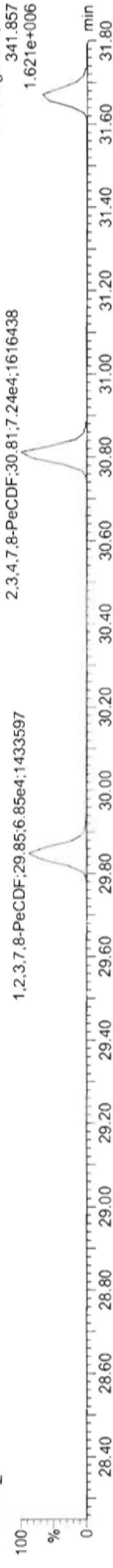
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1,2,3,7,8-PeCDF

230610R2_1



230610R2_1

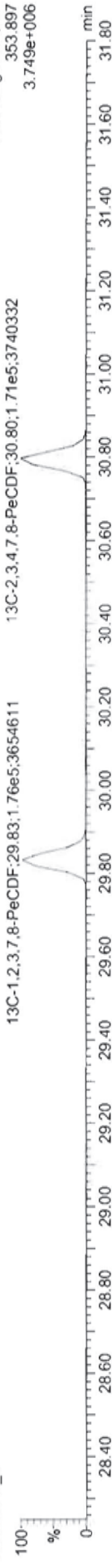


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230610R2_1

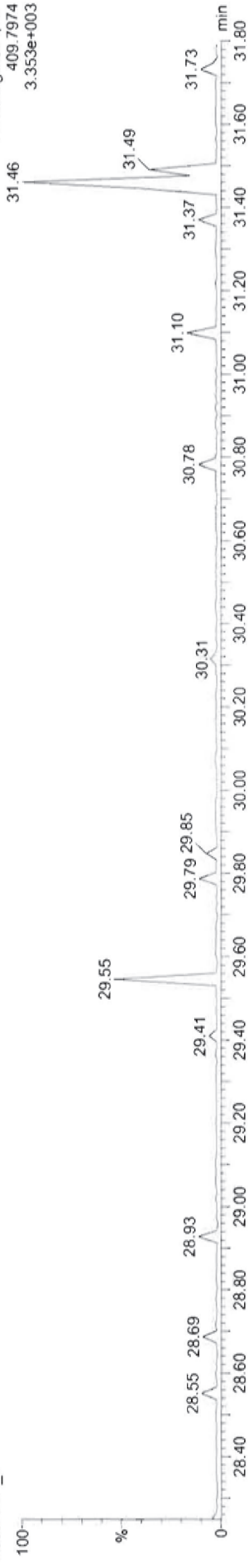


230610R2_1



DPE2

230610R2_1

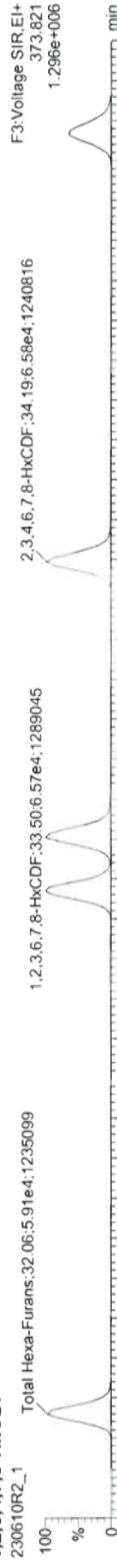


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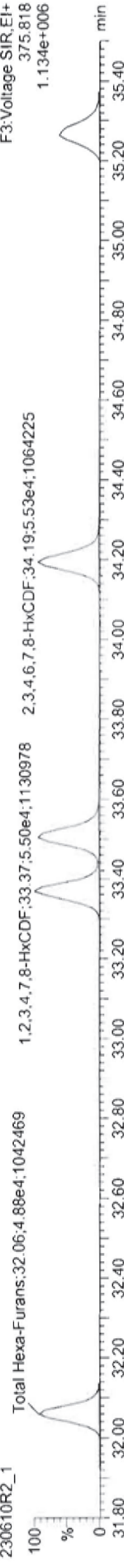
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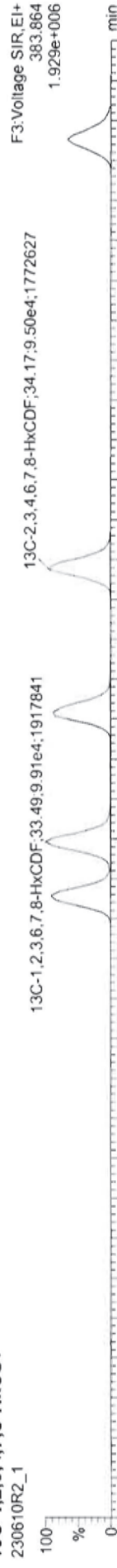
1,2,3,4,7,8-HxCDF



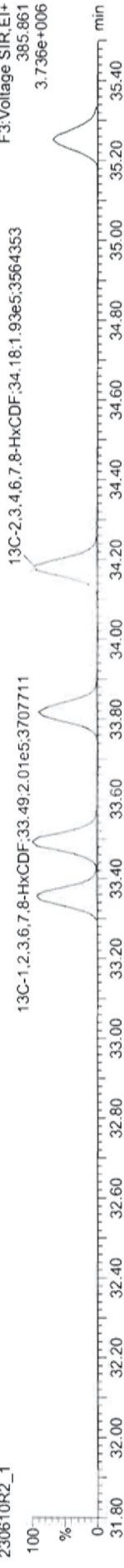
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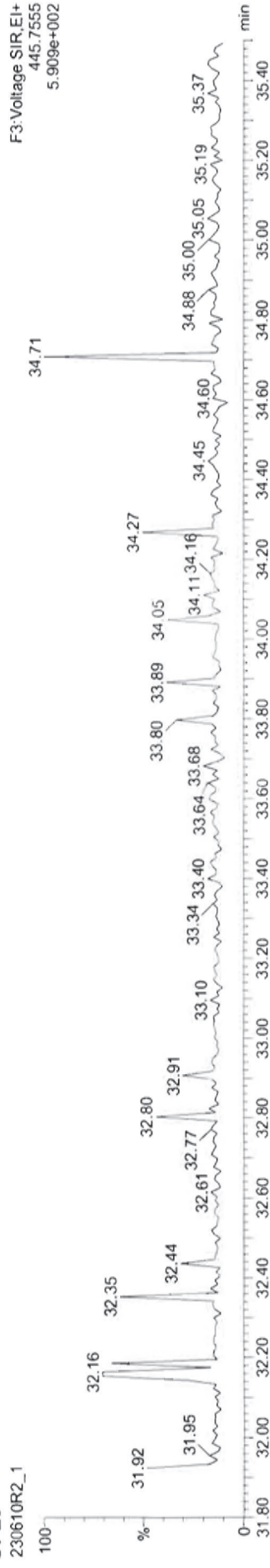
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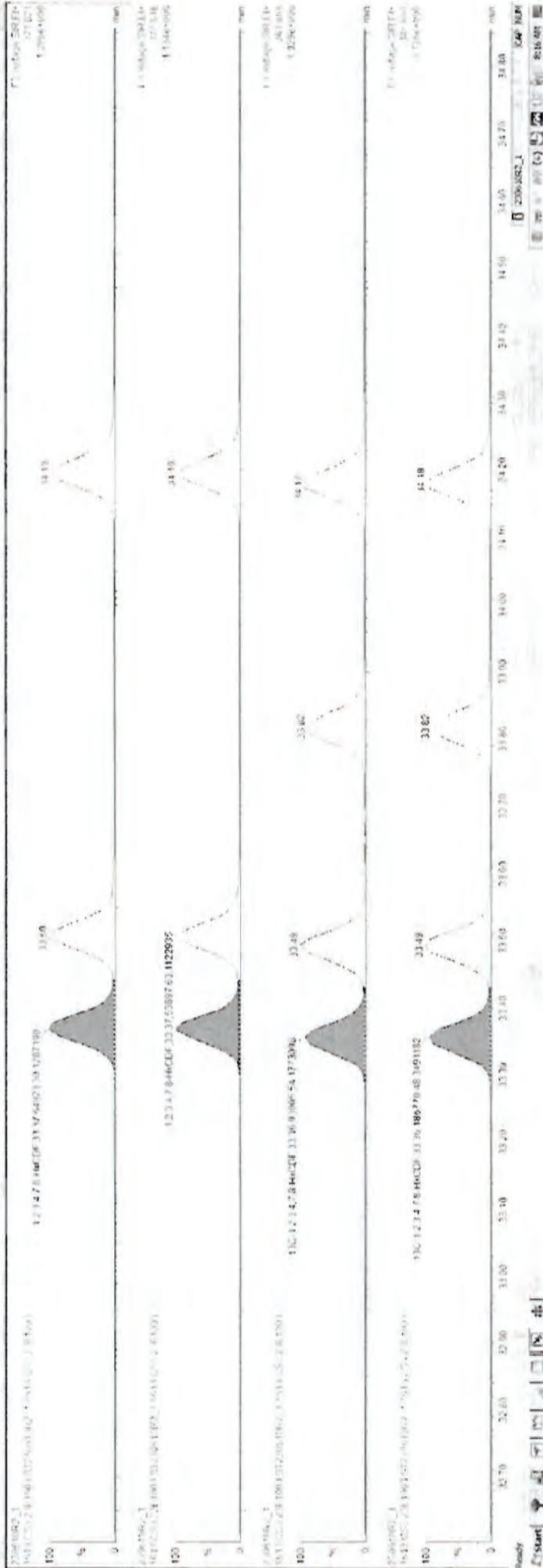
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DPE3



#	Name	Resp	Q Res	Q Res Rk	RA	WY	DPF	Prod RT	WT	RT Flag	Prod RT	WRT	Comp	NAICS	STD dev
1	1-2-17-8-TOC	4.03e4	4.11e4	0.77	0.62	NA	5995.7	25.78	NA	NA	1.081	1.001	3.12	54.2	181
2	1-2-17-8-ANCDC	1.31e4	4.11e4	0.63	0.62	NA	8.744.7	23.56	NA	NA	1.081	1.000	4.57	110	160
3	1-2-17-8-ANCDC	1.07e4	2.44e4	1.24	1.25	NA	8.032e4	34.30	NA	NA	1.082	1.000	45.7	99.1	160
4	1-2-17-8-8-ANCDC	9.76e4	2.02e4	1.24	1.25	NA	9.321	24.80	NA	NA	1.081	1.009	46.7	96.2	160
5	1-2-17-8-8-ANCDC	1.05e4	2.71e4	1.24	1.28	NA	8.5605	34.74	NA	NA	1.081	1.000	46.3	96.6	160
6	1-2-17-8-8-ANCDC	7.99e4	1.81e4	1.64	1.64	NA	9.6013	26.07	35.82	NA	1.080	1.051	47.9	55.9	160
7	1-2-17-8-8-ANCDC	1.14e5	2.13e4	0.68	0.65	NA	9.7818	41.42	41.42	NA	1.080	1.000	37.6	27.6	160
8	1-2-17-8-TOC	4.09e4	4.22e4	0.77	0.74	NA	5.65789	28.11	28.14	NA	1.042	1.051	31.6	45.2	160
9	1-2-17-8-TOC	1.05e4	4.53e4	1.62	1.62	NA	8.7575	23.85	NA	NA	1.081	1.000	41.3	10.0	160
10	1-2-17-8-8-ANCDC	1.05e4	4.19e4	1.62	1.62	NA	8.5242	23.10	30.14	NA	1.081	1.000	41.4	12.1	160
11	1-2-17-8-8-ANCDC	1.10e4	2.08e4	1.24	1.21	NA	8.78252	23.37	23.34	NA	1.080	1.000	25.2	411	160
12	1-2-17-8-8-ANCDC	1.79e4	2.59e4	1.20	1.17	NA	8.7274	23.13	17.42	NA	1.081	1.000	55.1	110	160
13	1-2-17-8-8-ANCDC	1.74e4	2.09e4	1.24	1.15	NA	8.75962	24.10	14.54	NA	1.081	1.051	25.0	111	160
14	1-2-17-8-8-ANCDC	9.46e4	2.34e4	1.24	1.16	NA	8.7402	22.25	25.27	NA	1.080	1.001	54.2	102	160
15	1-11-2-1-8-6-ANCDC	8.34e4	2.16e4	1.04	0.92	NA	8.7375	26.86	NA	NA	1.000	1.000	23.9	100	160
16	1-2-17-8-8-ANCDC	8.09e4	1.18e4	1.04	0.91	NA	8.7904	26.77	38.76	NA	1.000	1.001	53.9	102	160
17	1-11-2-1-8-6-ANCDC	1.19e4	4.25e4	0.65	0.65	NA	8.6954	41.37	41.37	NA	1.000	1.000	11.1	110	160



Dataset: Untitled

Last Altered: Monday, June 12, 2023 08:26:19 Pacific Daylight Time
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Name: 230610R2_1, Date: 10-Jun-2023, Time: 12:36:52, ID: ST230610R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,2,3,4,6,7,8-HpCDF

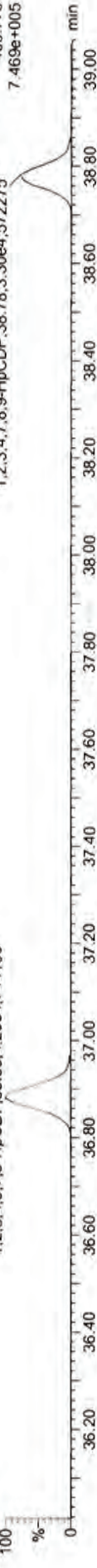
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230610R2_1

1,2,3,4,6,7,8-HpCDF:36.88;4.26e4;744109



13C-1,2,3,4,6,7,8-HpCDF

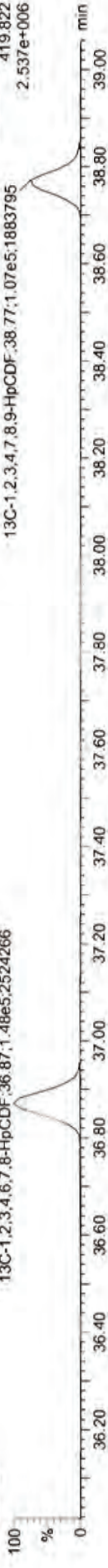
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230610R2_1

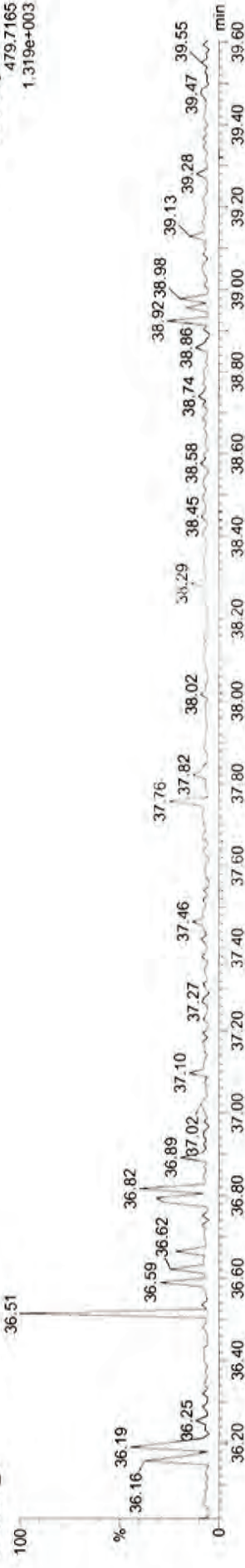
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DPE4

230610R2_1

36.51



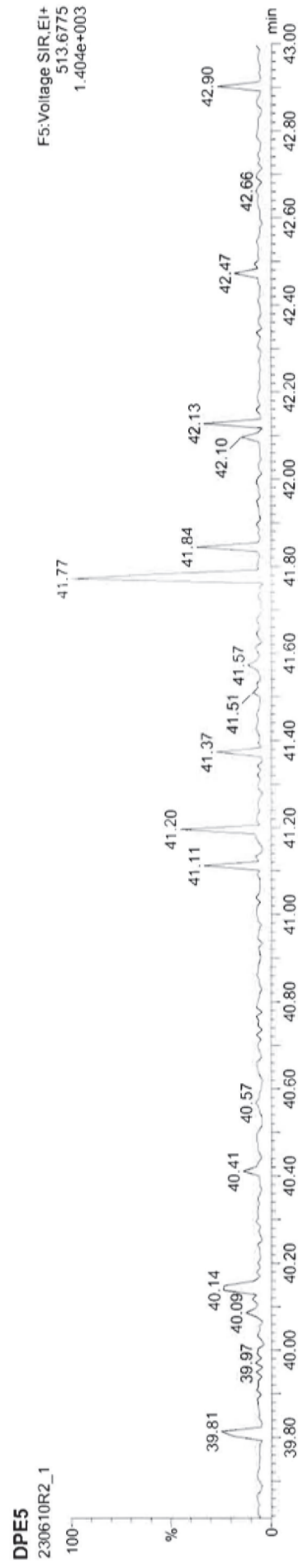
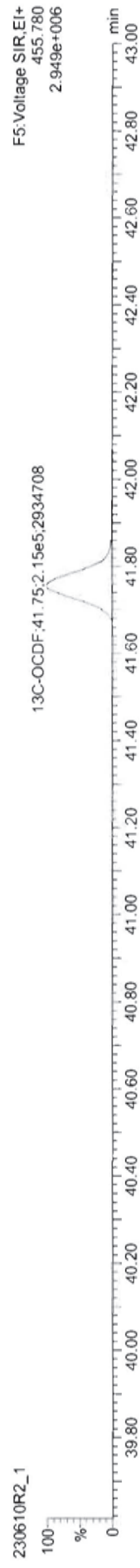
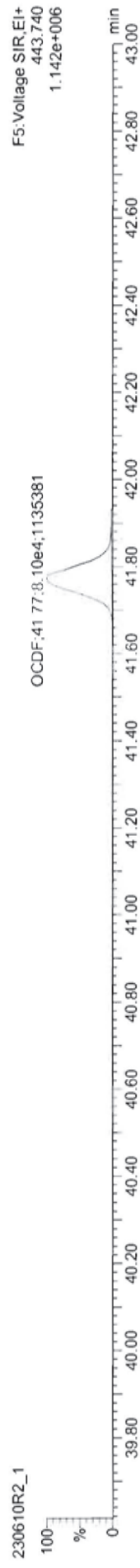
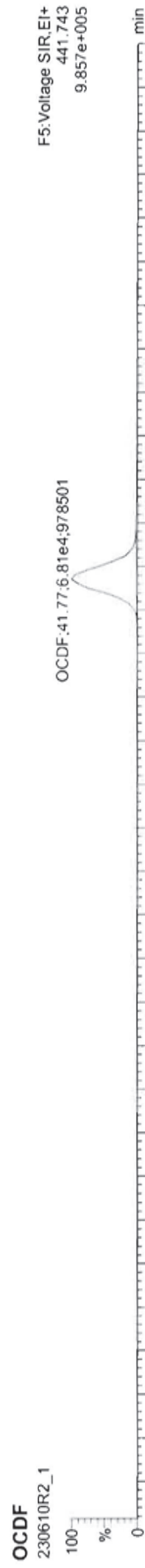
Quantify Sample Report
Enthalpy Analytical EDH VG-12

MassLynx 4.1 SCN815

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Printed: Monday, June 12, 2023 08:28:18 Pacific Daylight Time

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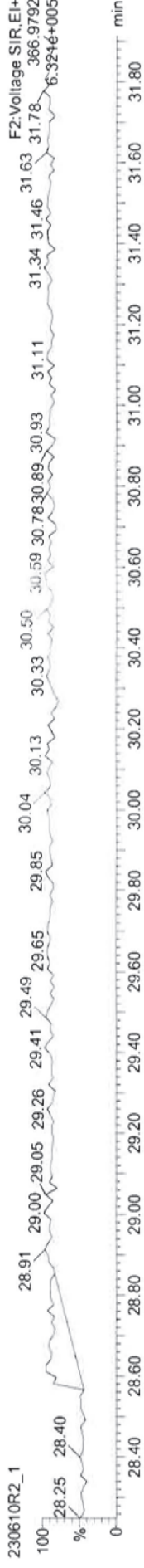
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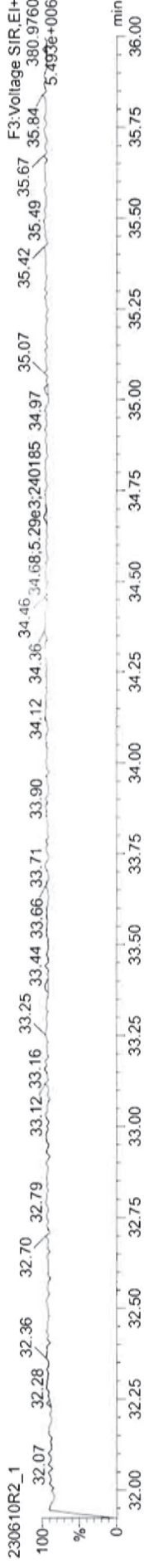
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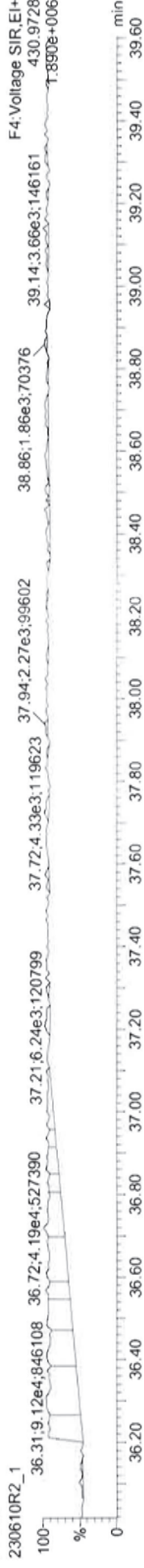
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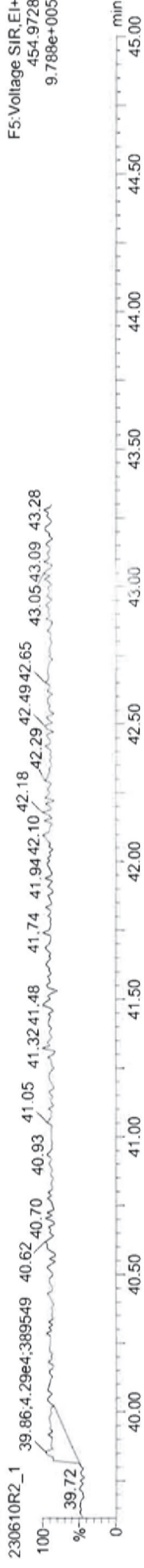
PFK3



PFK4



PFK5

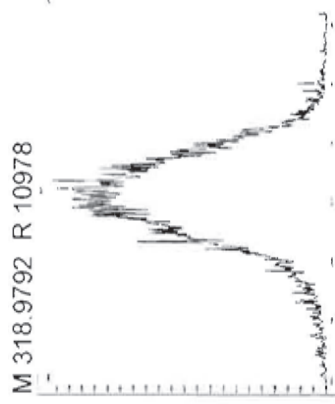
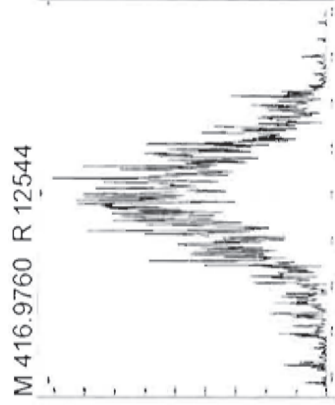
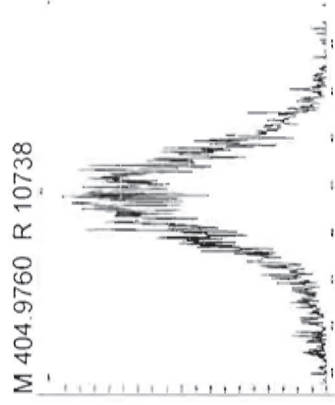
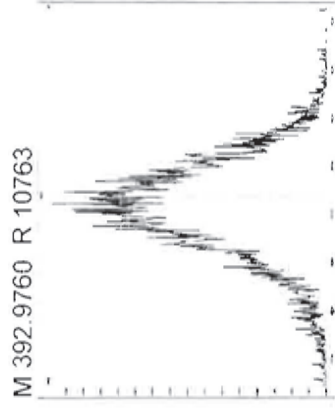
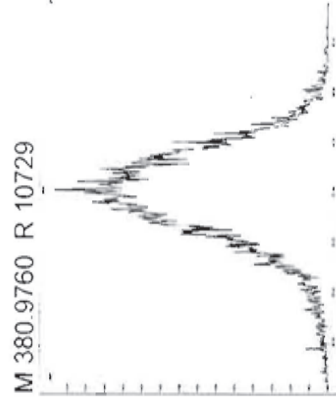
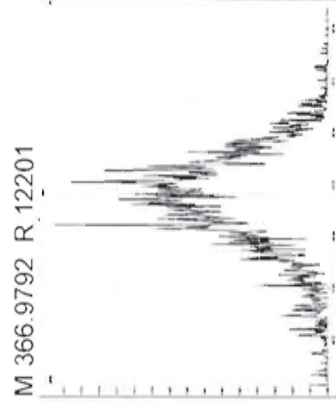
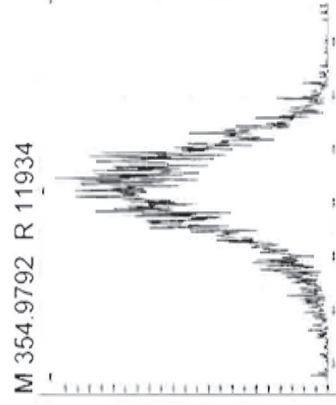
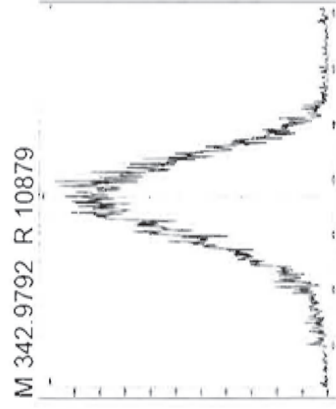
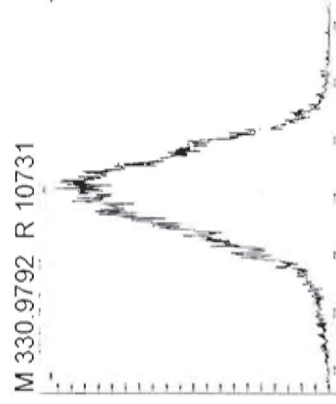
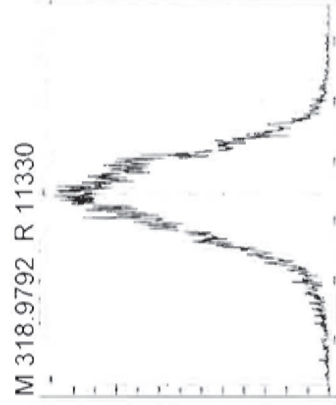
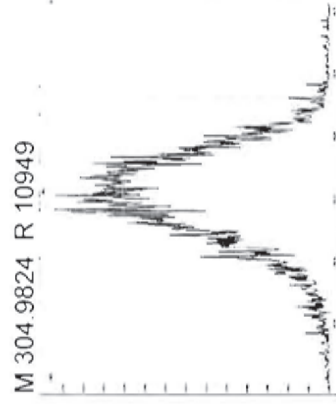
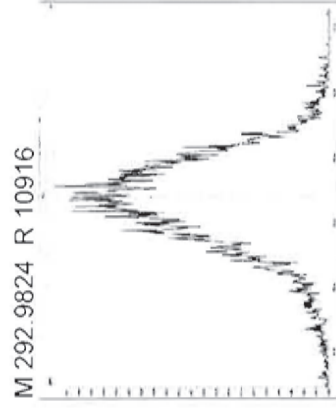


Resolution Check Report

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Printed: Sunday, June 11, 2023 00:10:50 Pacific Daylight Time



Resolution Check Report

MassLynx 4.1 SCN815

Page 2 of 4

Printed: Sunday, June 11, 2023 00:10:50 Pacific Daylight Time

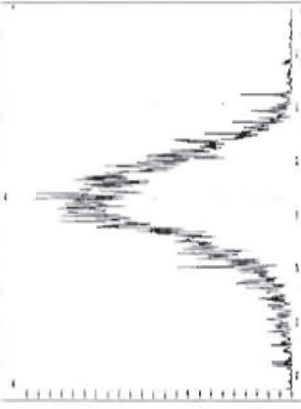
M 330.9792 R 10813



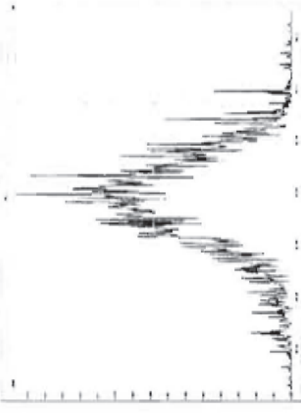
M 342.9792 R 10706



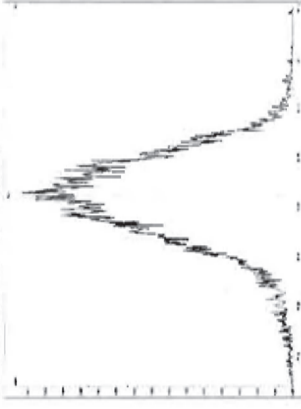
M 354.9792 R 12636



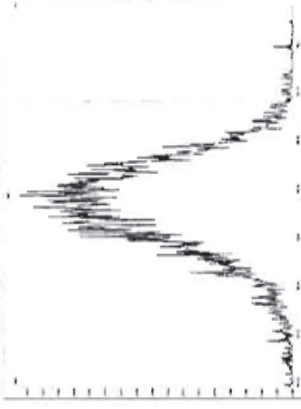
M 366.9792 R 12872



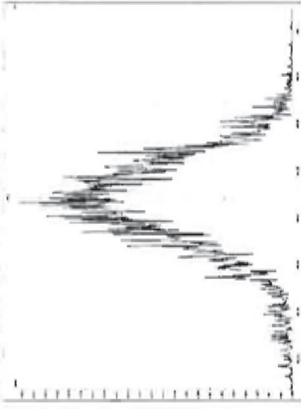
M 380.9760 R 11174



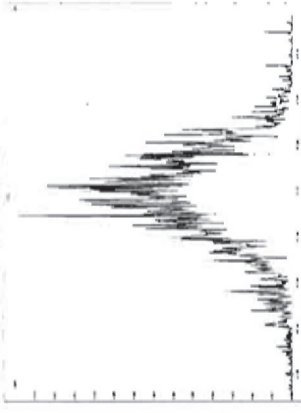
M 392.9760 R 11087



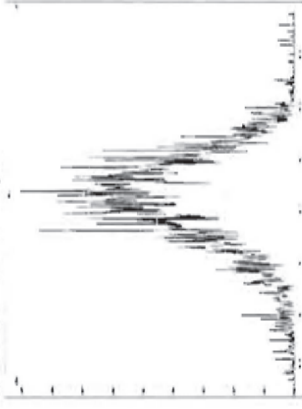
M 404.9760 R 10513



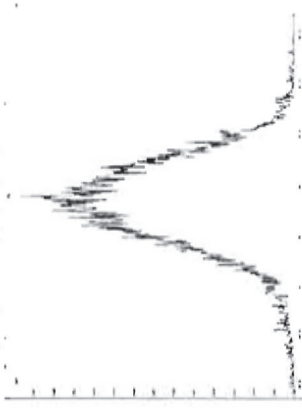
M 416.9760 R 12812



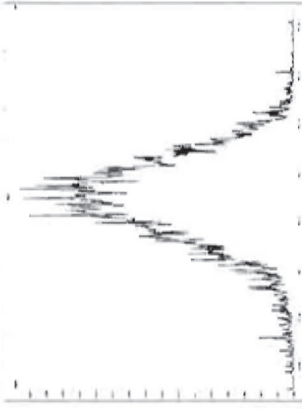
M 366.9792 R 11801



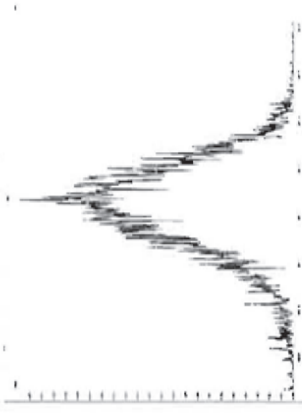
M 380.9760 R 11018



M 392.9760 R 11740



M 404.9760 R 13025



Resolution Check Report

MassLynx 4.1 SCN815

Printed: Sunday, June 11, 2023 00:10:50 Pacific Daylight Time

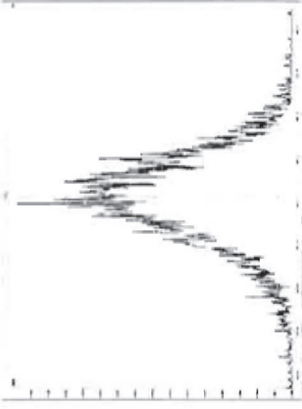
M 416.9760 R 13026



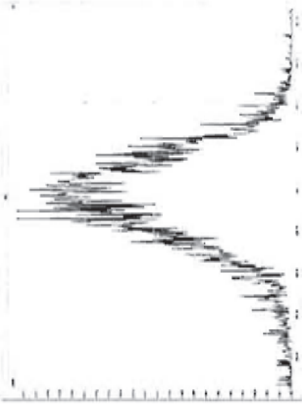
M 430.9728 R 11245



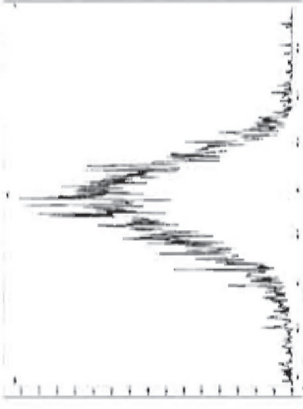
M 442.9728 R 11086



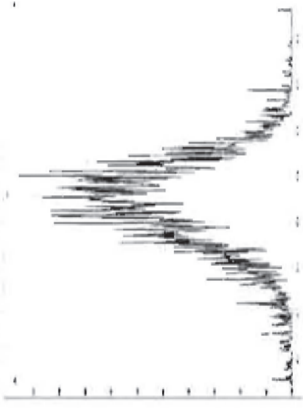
M 454.9728 R 11926



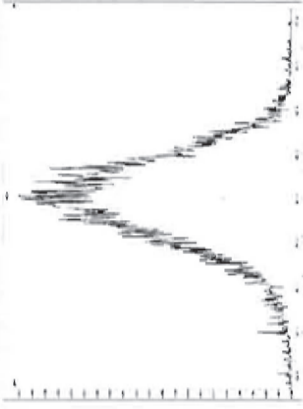
M 404.9760 R 12157



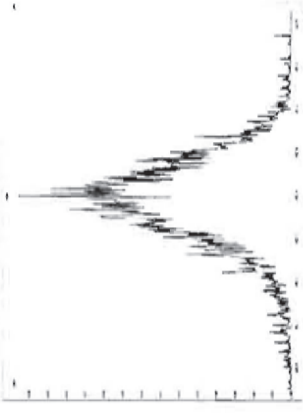
M 416.9760 R 13262



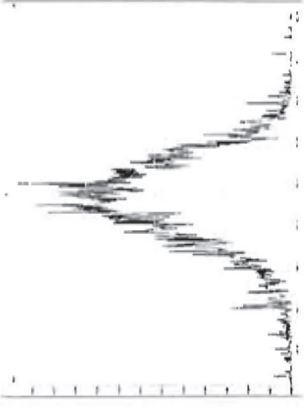
M 430.9728 R 11441



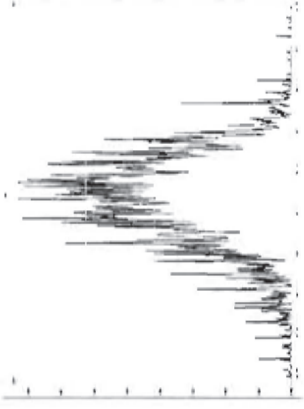
M 442.9728 R 11012



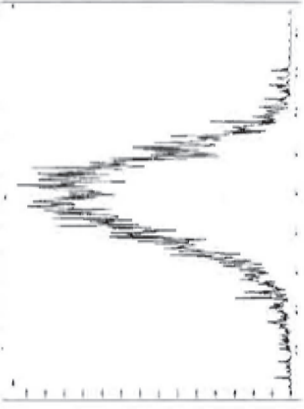
M 454.9728 R 12005



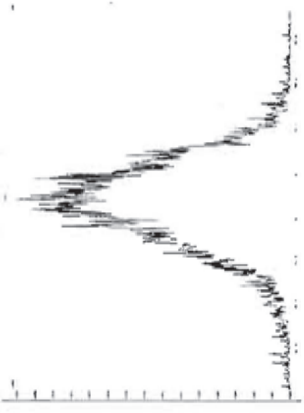
M 466.9728 R 14018



M 480.9696 R 11415



M 430.9728 R 11261

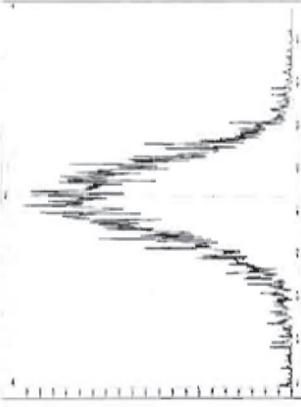


Resolution Check Report

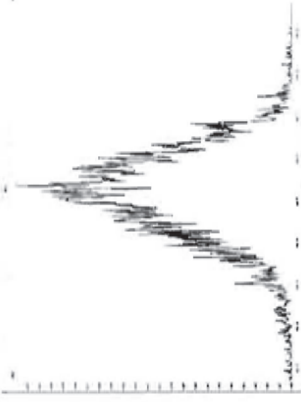
MassLynx 4.1 SCN815

Printed: Sunday, June 11, 2023 00:10:50 Pacific Daylight Time

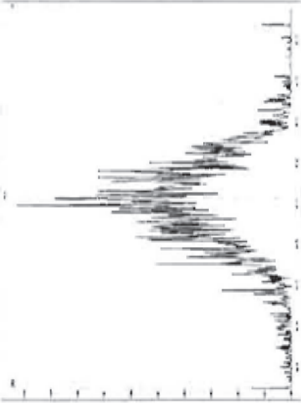
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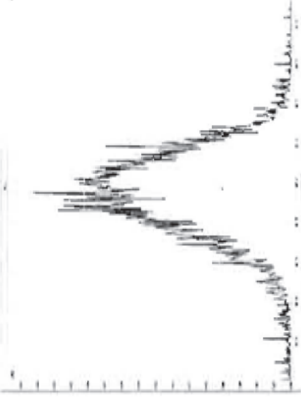
M 454.9728 R 11458



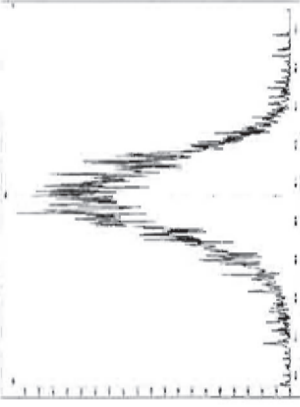
M 466.9728 R 12853



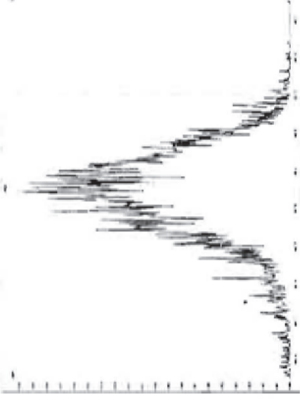
M 480.9696 R 10924



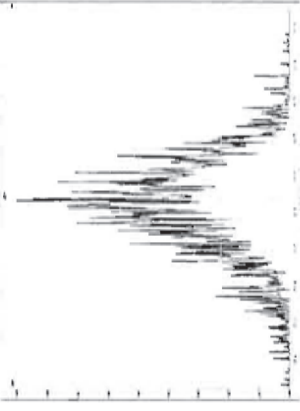
M 492.9696 R 11160



M 504.9696 R 11694



M 516.9697 R 13852



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: 57230614R1-1 Reviewed By: MAF 06.15.23

Initials & Date

End Calibration ID: 57230614R2-21

06/15/23
ATM Beg. End

Ion abundance within QC limits?

☒ ☒

Concentrations within criteria?

☒ ☒

TCDD/TCDF Valleys <25%

☒ ☒

First and last eluters present?

☒ ☒

Retention Times within criteria?

☒ ☒

Verification Std. named correctly?

☒ ☒

(ST-Year-Month-Day-VG ID)

Forms signed and dated?

☒ ☒

Correct ICAL referenced?

ATM ATM

Run Log:

- Correct instrument listed?

☒ ☒

- Samples within 12 hour clock?

(Y) N

- Bottle position verified?

ATM

Mass resolution >

☐ 5k ☐ 6-8K ☐ 8K ☒ 10K
1614 1699 429 1613/1668/8280

Integrated peaks display correctly?

☒ ☒

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

NA

Comments:

Quantify Sample Summary Report
Enthalpy Analytical EDH VG-12

MassLynx 4.1 SCN815

Dataset: I:\VG12 PRO\Results\230614R1\230614R1-1.qld

Last Altered: Wednesday, June 14, 2023 15:02:20 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:23:56 Pacific Daylight Time

MAF 06.15.23

ATM 06/15/23

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-12-23.cdb 13 Jun 2023 09:11:49

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

#	Name	Resp	ISResp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	4.98e4	5.12e5	0.73	NO	0.955	26.75	26.73	NO	1.001	1.001	10.179	102	NO
2	1,2,3,7,8-PeCDD	1.47e5	3.23e5	0.59	NO	0.795	30.98	30.98	NO	1.001	1.000	57.348	115	NO
3	3,1,2,3,4,7,8-HxCDD	1.32e5	2.70e5	1.29	NO	0.908	34.30	34.30	NO	1.000	1.000	53.752	108	NO
4	4,1,2,3,6,7,8-HxCDD	1.45e5	3.37e5	1.30	NO	0.836	34.42	34.42	NO	1.001	1.000	51.349	103	NO
5	5,1,2,3,7,8,9-HxCDD	1.34e5	3.06e5	1.29	NO	0.854	34.72	34.72	NO	1.001	1.000	51.094	102	NO
6	6,1,2,3,4,6,7,8-HpCDD	1.10e5	2.30e5	1.07	NO	0.936	38.07	38.08	NO	1.000	1.001	51.215	102	NO
7	OCDD	1.78e5	4.30e5	0.89	NO	0.849	41.43	41.42	NO	1.000	1.000	97.689	97.7	NO
8	2,3,7,8-TCDF	6.76e4	6.93e5	0.77	NO	0.891	26.12	26.12	NO	1.000	1.001	10.957	110	NO
9	1,2,3,7,8-PeCDF	2.48e5	5.41e5	1.64	NO	0.812	29.85	29.85	NO	1.001	1.000	56.374	113	NO
10	2,3,4,7,8-PeCDF	2.74e5	5.36e5	1.71	NO	0.907	30.82	30.81	NO	1.001	1.000	56.335	113	NO
11	1,2,3,4,7,8-HxCDF	1.97e5	4.19e5	1.25	NO	0.839	33.36	33.37	NO	1.000	1.001	55.993	112	NO
12	1,2,3,6,7,8-HxCDF	2.25e5	5.06e5	1.26	NO	0.815	33.51	33.50	NO	1.001	1.000	54.563	109	NO
13	2,3,4,6,7,8-HxCDF	1.92e5	4.10e5	1.21	NO	0.845	34.19	34.19	NO	1.001	1.001	55.381	111	NO
14	1,2,3,7,8,9-HxCDF	1.56e5	3.46e5	1.29	NO	0.811	35.26	35.26	NO	1.000	1.000	55.746	111	NO
15	1,2,3,4,6,7,8-HpCDF	1.51e5	3.34e5	1.00	NO	0.827	36.89	36.88	NO	1.000	1.000	54.762	110	NO
16	1,2,3,4,7,8,9-HpCDF	1.21e5	2.44e5	0.93	NO	0.873	38.77	38.78	NO	1.000	1.001	56.878	114	NO
17	OCDF	2.59e5	6.36e5	0.87	NO	0.735	41.77	41.78	NO	1.000	1.000	110.85	111	NO
18	13C-2,3,7,8-TCDD	5.12e5	4.80e5	0.77	NO	1.10	26.70	26.71	NO	1.026	1.026	97.002	97.0	NO
19	13C-1,2,3,7,8-PeCDD	3.23e5	4.80e5	0.61	NO	0.810	30.66	30.96	NO	1.178	1.189	83.105	83.1	NO
20	13C-1,2,3,4,7,8-HxCDD	2.70e5	4.85e5	1.28	NO	0.647	34.27	34.29	NO	1.013	1.014	85.902	85.9	NO
21	13C-1,2,3,6,7,8-HxCDD	3.37e5	4.85e5	1.20	NO	0.708	34.42	34.40	NO	1.018	1.017	98.096	98.1	NO
22	13C-1,2,3,7,8,9-HxCDD	3.06e5	4.85e5	1.17	NO	0.697	34.71	34.71	NO	1.026	1.026	90.600	90.6	NO
23	13C-1,2,3,4,6,7,8-HpCDD	2.30e5	4.85e5	1.07	NO	0.550	38.06	38.06	NO	1.125	1.125	86.200	86.2	NO
24	13C-OCDD	4.30e5	4.85e5	0.88	NO	0.482	41.37	41.40	NO	1.223	1.224	183.85	91.9	NO
25	13C-2,3,7,8-TCDF	6.93e5	7.79e5	0.77	NO	1.04	26.11	26.11	NO	1.003	1.003	85.381	85.4	NO
26	13C-1,2,3,7,8-PeCDF	5.41e5	7.79e5	1.57	NO	0.819	29.80	29.83	NO	1.145	1.146	84.748	84.7	NO
27	13C-2,3,4,7,8-PeCDF	5.36e5	7.79e5	1.63	NO	0.799	30.75	30.80	NO	1.181	1.183	86.016	86.0	NO
28	13C-1,2,3,4,7,8-HxCDF	4.19e5	4.85e5	0.51	NO	0.971	33.38	33.35	NO	0.987	0.986	88.821	88.8	NO
29	13C-1,2,3,6,7,8-HxCDF	5.06e5	4.85e5	0.50	NO	1.04	33.50	33.49	NO	0.990	0.990	100.71	101	NO
30	13C-2,3,4,6,7,8-HxCDF	4.10e5	4.85e5	0.52	NO	0.931	34.17	34.17	NO	1.010	1.010	90.771	90.8	NO

Dataset: I:\VG12.PRO\Results\230614R1\230614R1-1.qld

Last Altered: Wednesday, June 14, 2023 15:02:20 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:23:56 Pacific Daylight Time

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

	#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
31	31	13C-1,2,3,7,8,9-HxCDF	3.46e5	4.85e5	0.49	NO	0.817	35.24	35.25	NO	1.042	1.042	87.182	87.2	NO
32	32	13C-1,2,3,4,6,7,8-HpCDF	3.34e5	4.85e5	0.42	NO	0.730	36.85	36.87	NO	1.090	1.090	94.304	94.3	NO
33	33	13C-1,2,3,4,7,8,9-HpCDF	2.44e5	4.85e5	0.41	NO	0.576	38.74	38.76	NO	1.146	1.146	87.250	87.2	NO
34	34	13C-OCDF	6.36e5	4.85e5	0.87	NO	0.696	41.76	41.76	NO	1.235	1.235	188.18	94.1	NO
35	35	37Cl-2,3,7,8-TCDD	4.72e4	4.80e5			0.959	26.71	26.73	NO	1.026	1.027	10.242	102	NO
36	36	13C-1,2,3,4-TCDD	4.80e5	4.80e5	0.78	NO	1.00	26.11	26.03	NO	1.000	1.000	100.00	100	YES <i>ok</i>
37	37	13C-1,2,3,4-TCDF	7.79e5	7.79e5	0.79	NO	1.00	24.81	24.75	NO	1.000	1.000	100.00	100	NO
38	38	13C-1,2,3,4,6,9-HxCDF	4.85e5	4.85e5	0.48	NO	1.00	33.84	33.82	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Quantify Compound Summary Report MassLynx 4.1 SCN815
Enthalpy Analytical EDH VG-12

Dataset: Untitled

Last Altered: Thursday, June 15, 2023 08:11:25 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:11:43 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-12-23.cdb 13 Jun 2023 09:11:49

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	230614R1_1	ST230614R1_1 1613 CS3 23E1003	14-Jun-23	14:14:35
2	230614R1_2	B23E110-BS7 OPR 10	14-Jun-23	15:04:07
3	230614R1_3	B23E110-BS8 OPR 10	14-Jun-23	15:48:39
4	230614R1_4	SOLVENT BLANK	14-Jun-23	16:33:47
5	230614R1_5	B23E110-BLK8 Method Blank 10	14-Jun-23	17:18:47
6	230614R1_6	(K)		
7	230614R1_7	B23E110-BLK7 Method Blank 10	14-Jun-23	18:51:33
8	230614R1_8	B23F074-BLK1 Method Blank 1	14-Jun-23	19:36:09
9	230614R1_9	2306053-01 OF-031A BiWeekly Composite D...	14-Jun-23	20:21:17
10	230614R1_10	2305079-03 MW-3A 0.88851	14-Jun-23	21:06:23
11	230614R1_11	2305079-04 MW-5 0.89218	14-Jun-23	21:51:23
12	230614R1_12	2305079-05 MW-7A 0.87129	14-Jun-23	22:36:30
13	230614R1_13	2305079-06 MW-9 0.90382	14-Jun-23	23:21:36
14	230614R1_14	HRMS-230607-01	15-Jun-23	00:06:35
15	230614R1_15	2305023-03@10X PS63-SS-03 27.33	15-Jun-23	00:51:34
16	230614R1_16	2305023-04@10X PS63-SS-04 18.84	15-Jun-23	01:36:34
17	230614R2_1	SOLVENT BLANK	15-Jun-23	02:30:28
18	230614R2_2	ST230614R2_1 1613 CS3 23E1003	15-Jun-23	03:15:04

ⓐ Paused, R.I. A.T.M
06/15/23

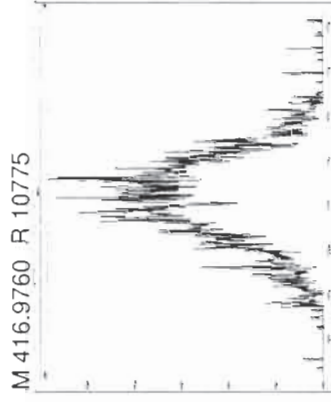
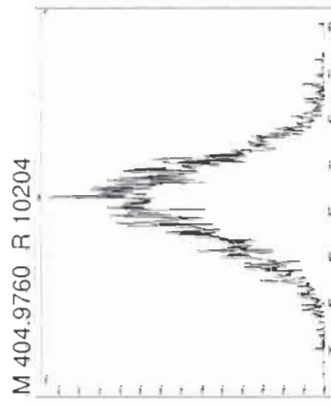
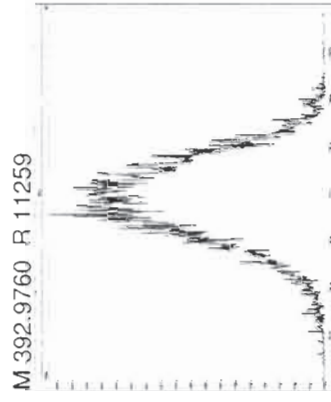
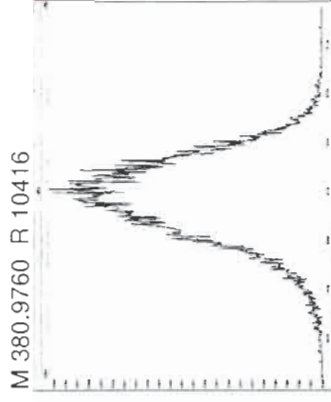
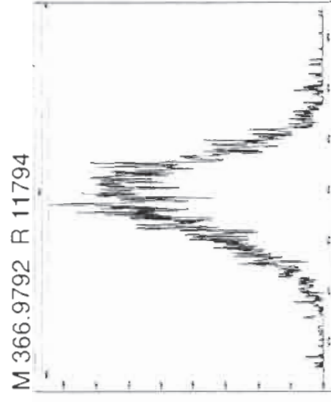
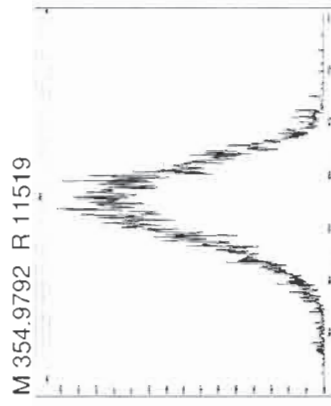
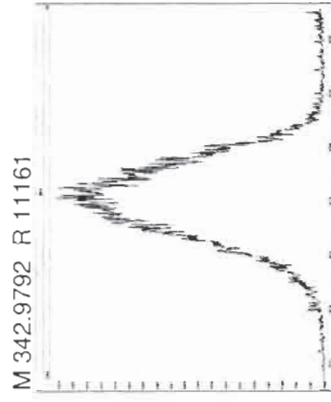
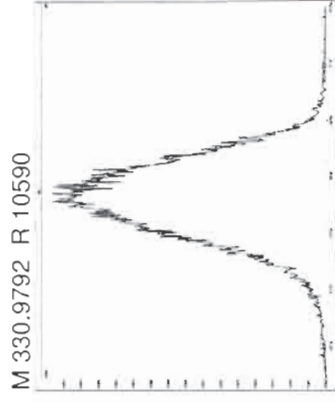
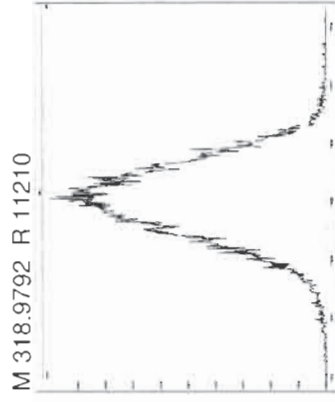
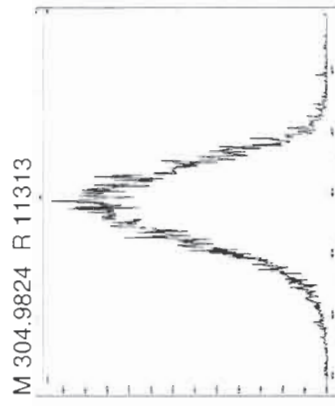
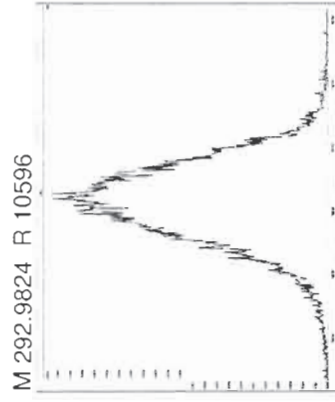
Experiment Calibration Report

MassLynx 4.1 SCN815

Page 1 of 1

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, June 14, 2023 14:09:34 Pacific Daylight Time



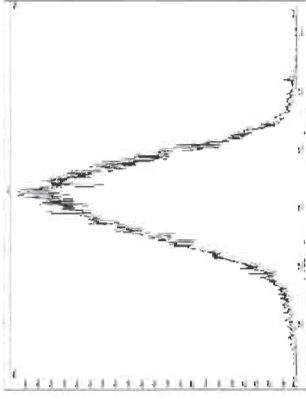
Experiment Calibration Report

MassLynx 4.1 SCN815

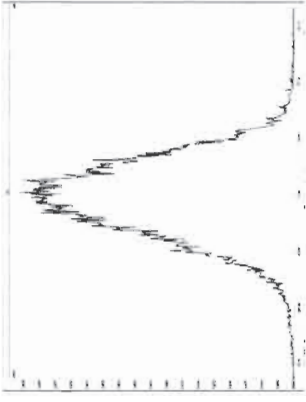
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, June 14, 2023 14:10:18 Pacific Daylight Time

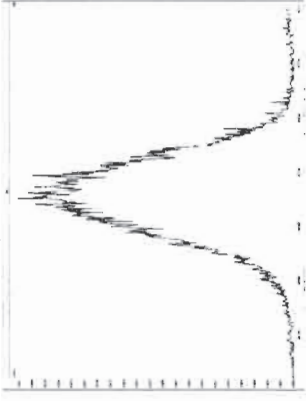
M 318.9792 R 10917



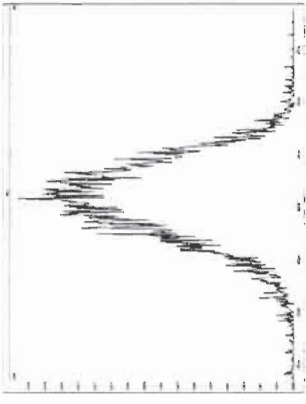
M 330.9792 R 11519



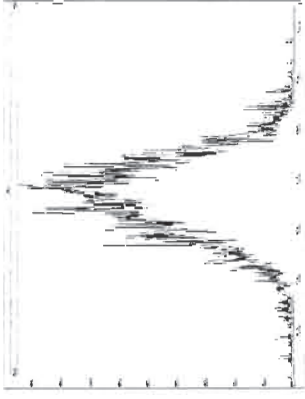
M 342.9792 R 10918



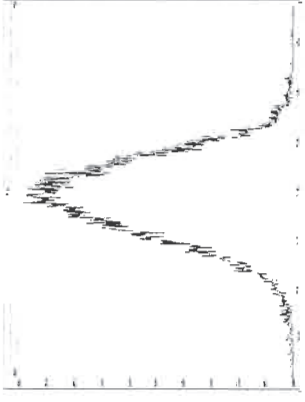
M 354.9792 R 11013



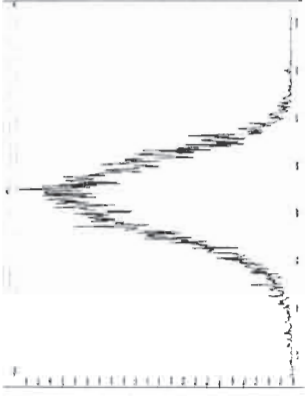
M 366.9792 R 11109



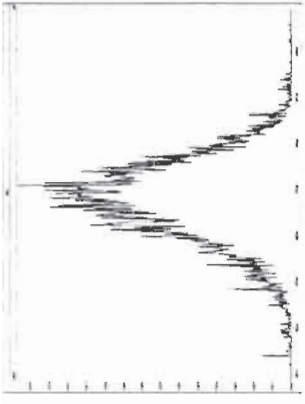
M 380.9760 R 11108



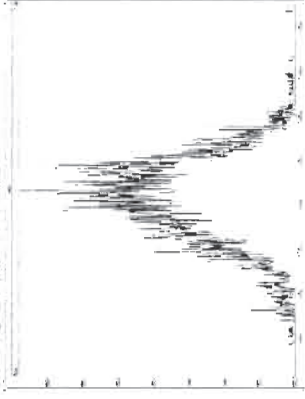
M 392.9760 R 11792



M 404.9760 R 10962



M 416.9760 R 12690

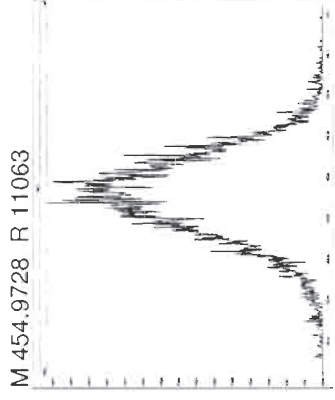
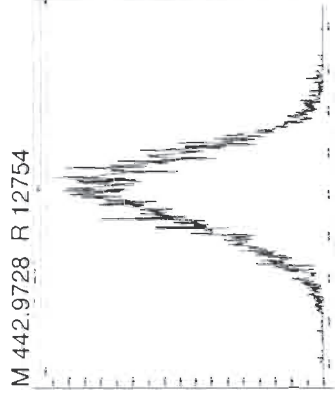
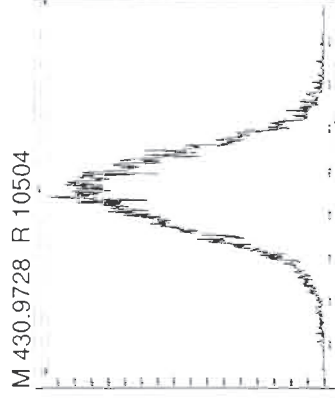
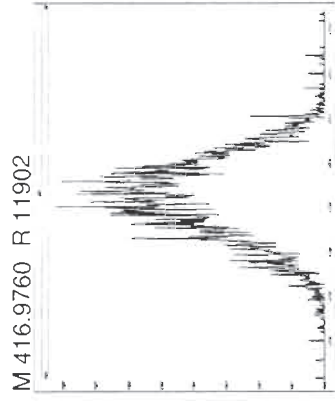
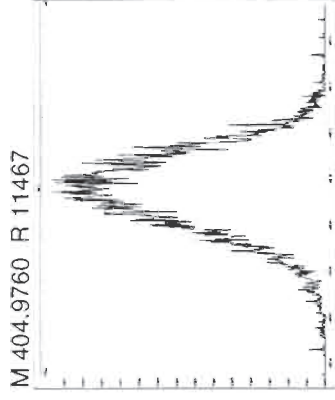
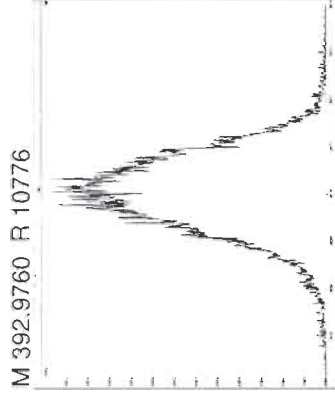
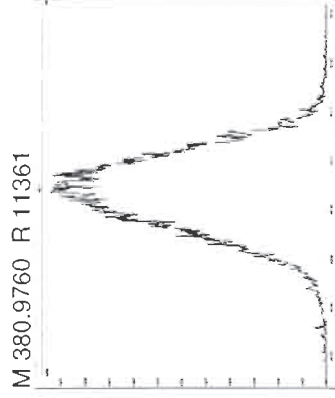
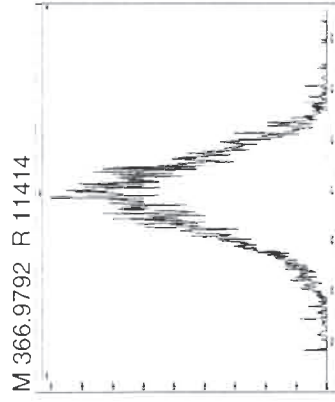


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, June 14, 2023 14:10:53 Pacific Daylight Time

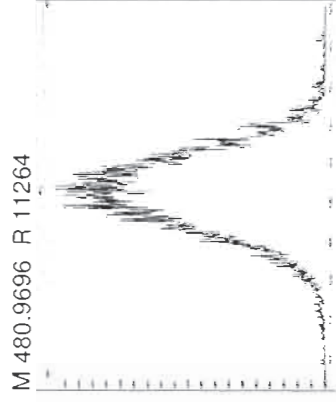
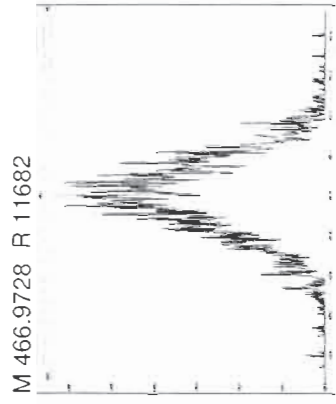
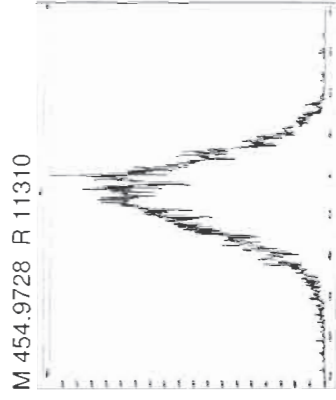
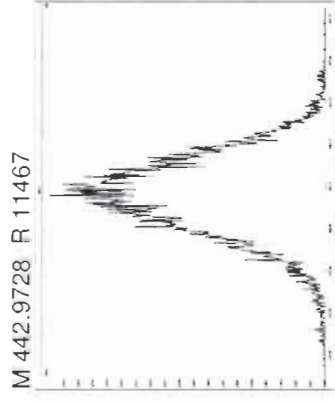
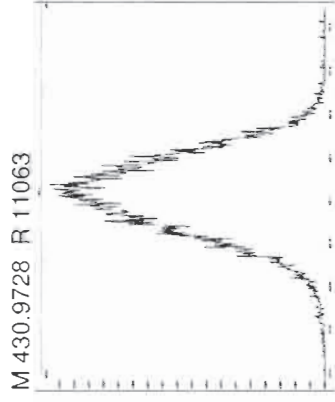
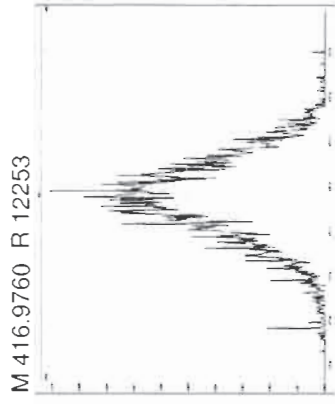
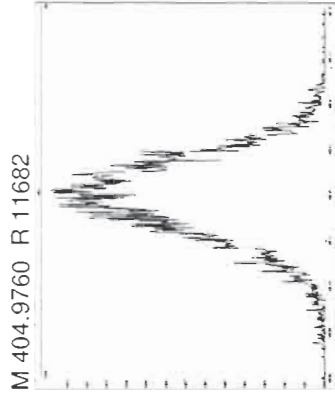


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, June 14, 2023 14:11:59 Pacific Daylight Time

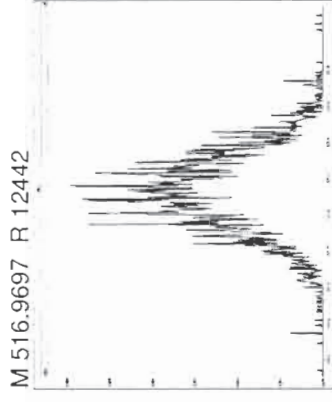
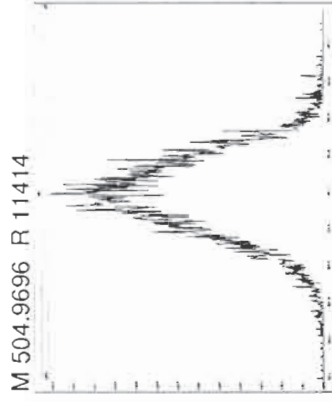
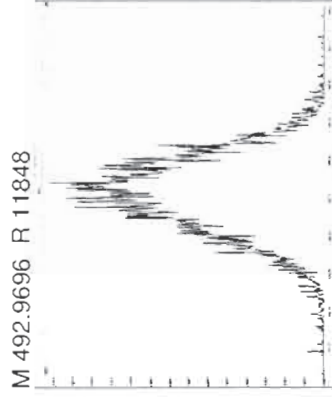
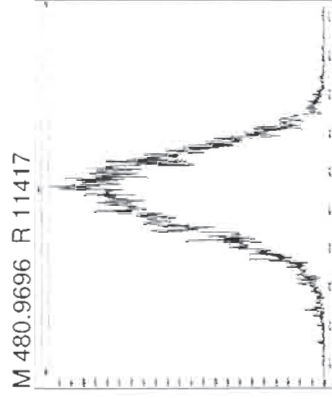
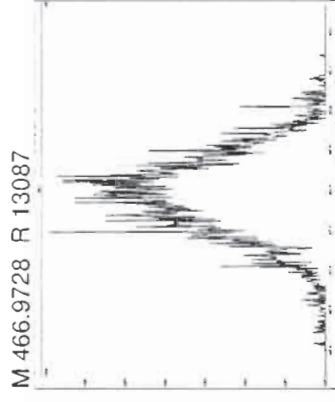
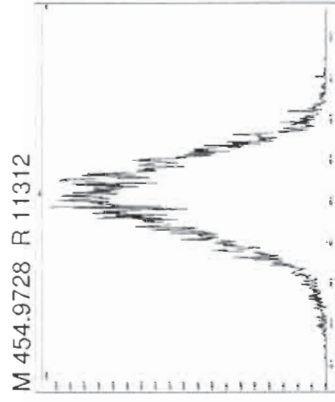
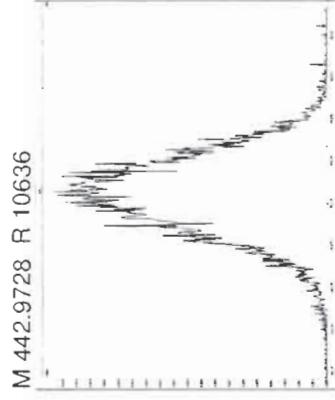
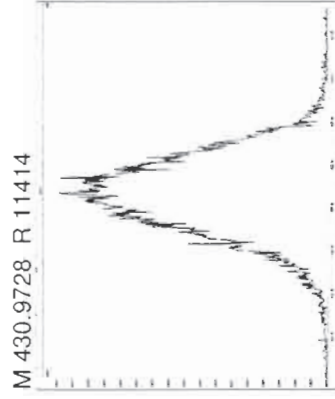


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, June 14, 2023 14:12:57 Pacific Daylight Time



Dataset: Untitled

Last Altered: Thursday, June 15, 2023 08:31:19 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:31:58 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSPM.mdb 24 May 2023 17:45:01
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-12-23.cdb 13 Jun 2023 09:11:49

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

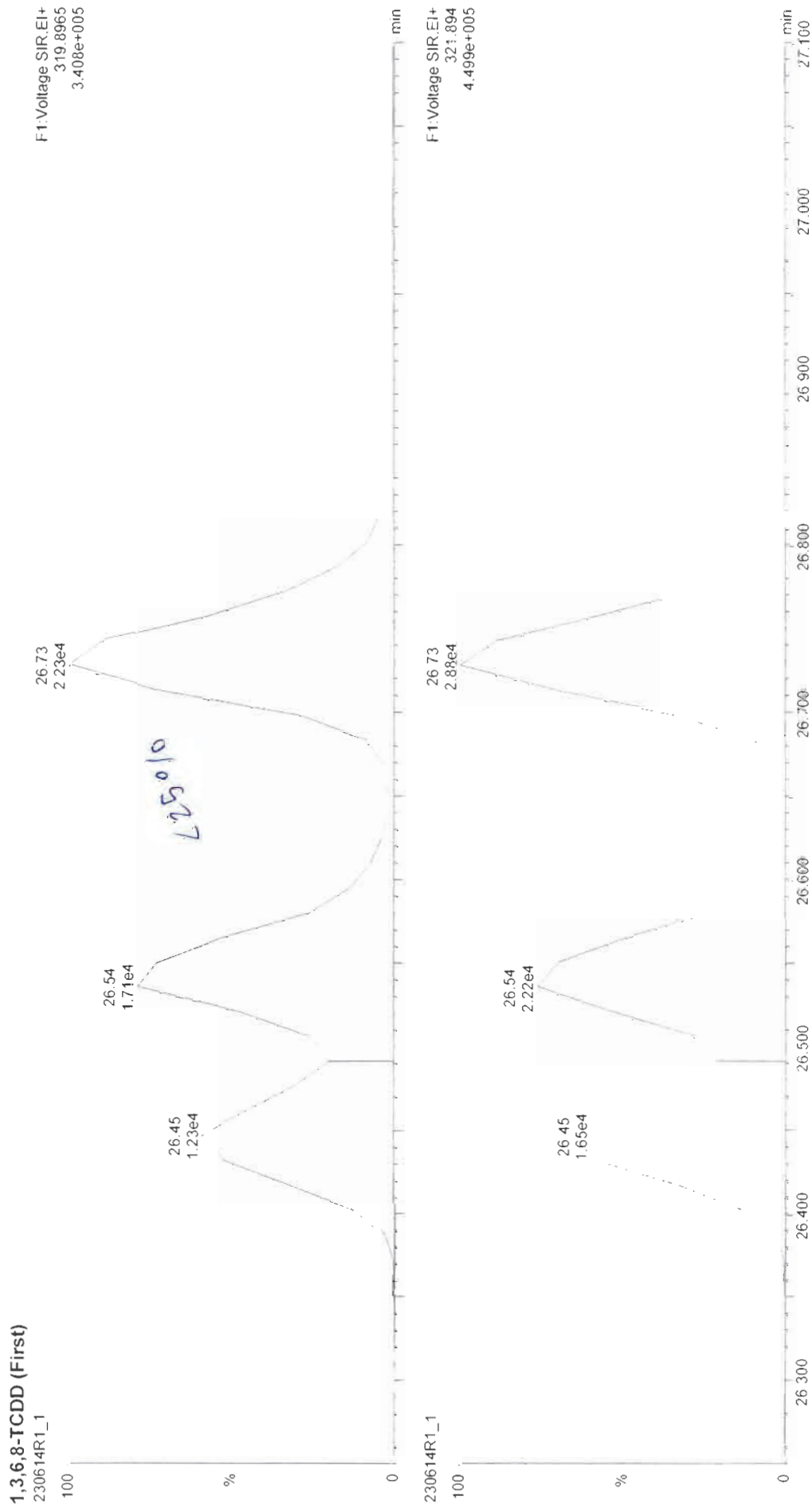
#	Name	RT
1	1,3,6,8-TCDD (First)	23.43
2	1,2,8,9-TCDD (Last)	27.54
3	3,1,2,4,7,9-PeCDD (First)	28.91
4	4,1,2,3,8,9-PeCDD (Last)	31.32
5	5,1,2,4,6,7,9-HxCDD (First)	32.59
6	6,1,2,3,7,8,9-HxCDD (Last)	34.72
7	7,1,2,3,4,6,7,9-HpCDD (First)	37.21
8	8,1,2,3,4,6,7,8-HpCDD (Last)	38.08
9	9,1,3,6,8-TCDF (First)	21.39
10	10,1,2,8,9-TCDF (Last)	27.84
11	11,1,3,4,6,8-PeCDF (First)	27.42
12	12,1,2,3,8,9-PeCDF (Last)	31.67
13	13,1,2,3,4,6,8-HxCDF (First)	32.06
14	14,1,2,3,7,8,9-HxCDF (Last)	35.26
15	15,1,2,3,4,6,7,8-HpCDF (First)	36.88
16	16,1,2,3,4,7,8,9-HpCDF (Last)	38.78

Dataset: Untitled

Last Altered: Thursday, June 15, 2023 08:31:19 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:31:58 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Method\CPISM.mdb 24 May 2023 17:45:01
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-12-23.cdb 13 Jun 2023 09:11:49

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

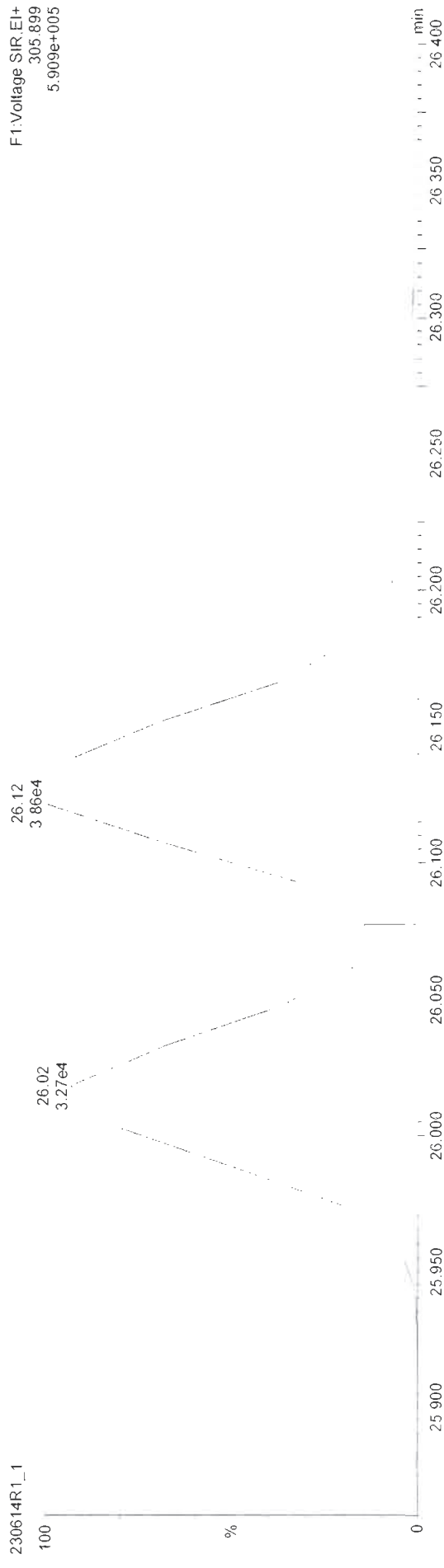
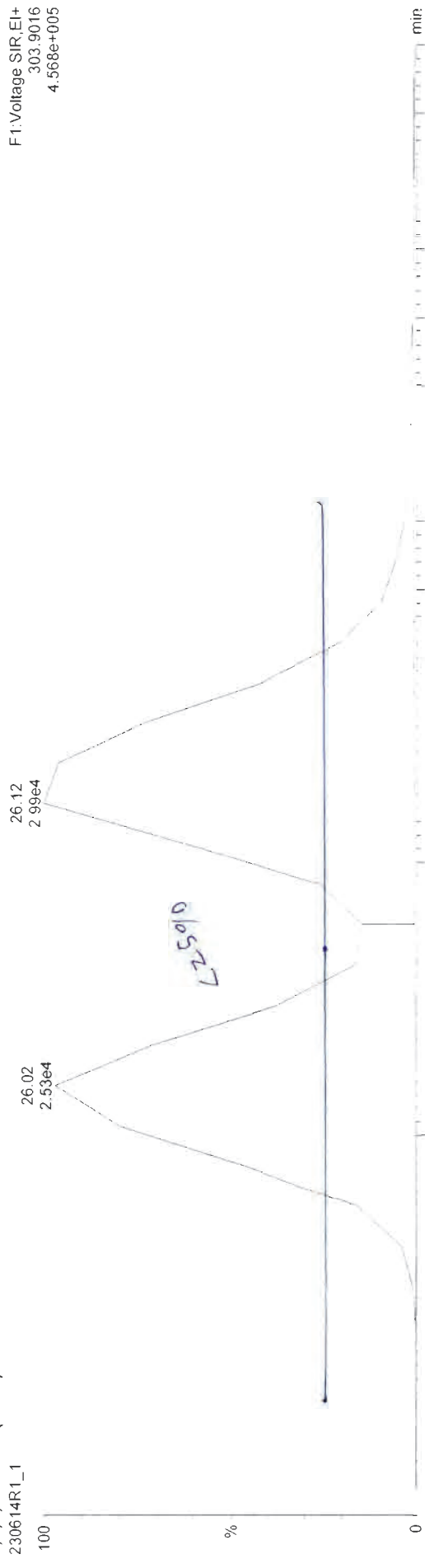


Dataset: Untitled

Last Altered: Thursday, June 15, 2023 08:31:19 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:31:58 Pacific Daylight Time

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,3,6,8-TCDF (First)



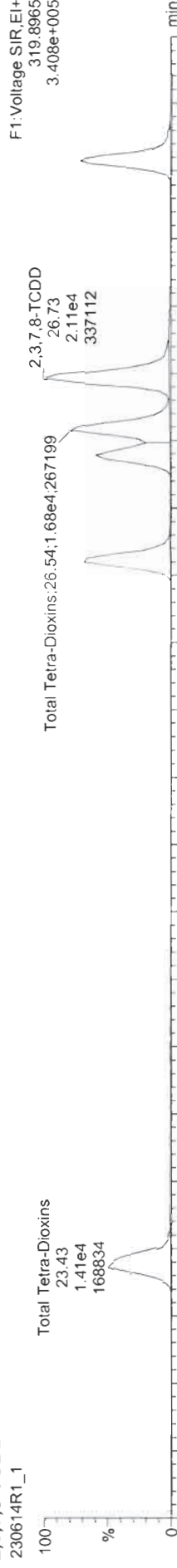
Dataset: Untitled

Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

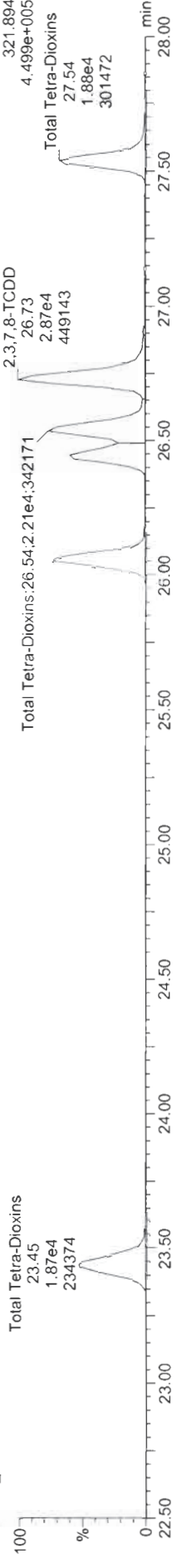
Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-1-23.mdb 01 Jun 2023 15:09:04
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\dbDIOXIN_1613vg12-6-12-23.cdb 13 Jun 2023 09:11:49

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

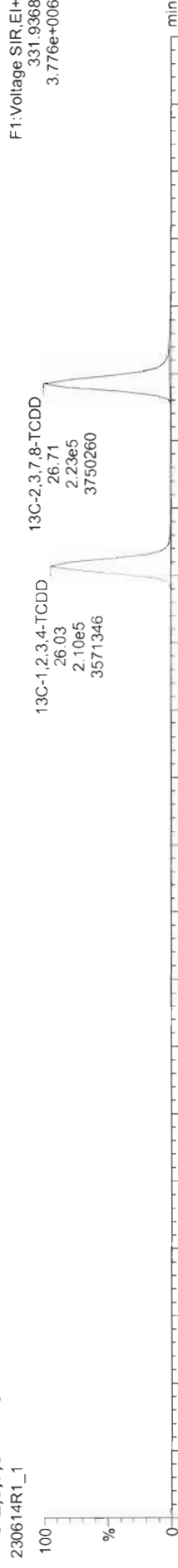
2,3,7,8-TCDD



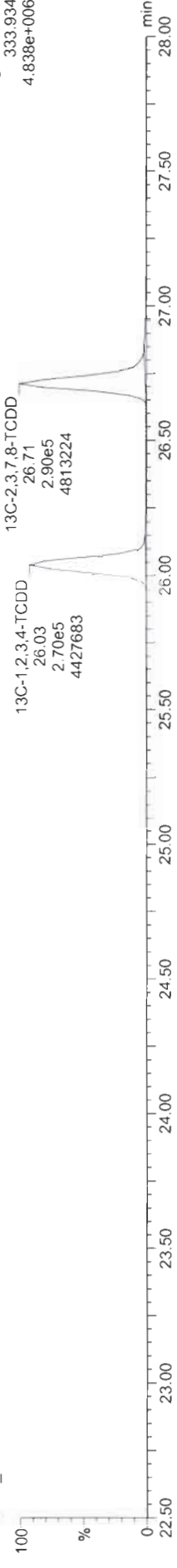
230614R1_1



13C-2,3,7,8-TCDD



230614R1_1

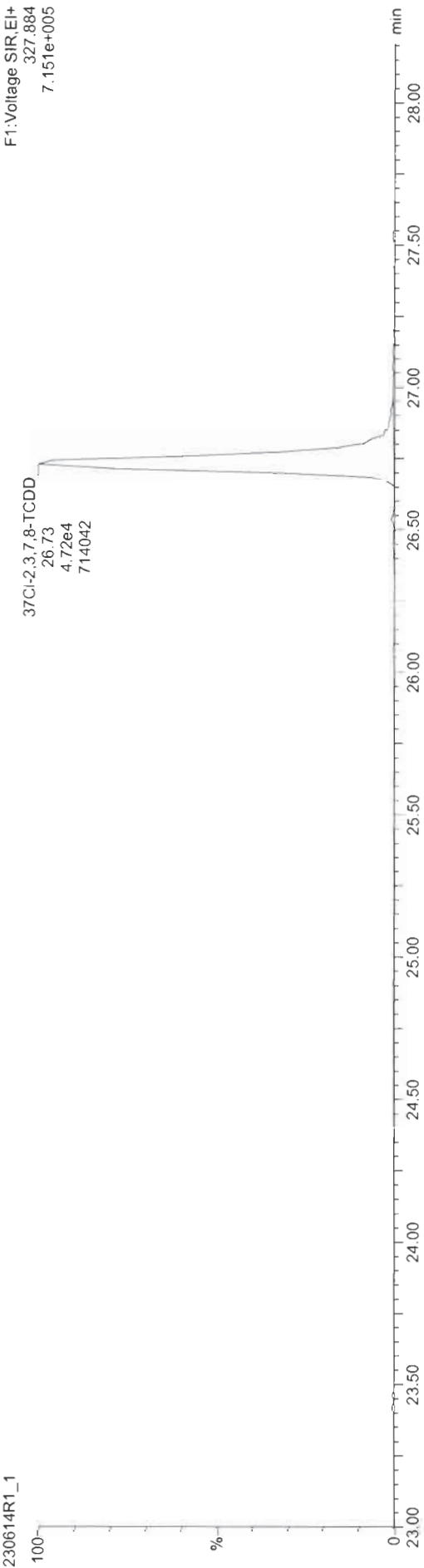


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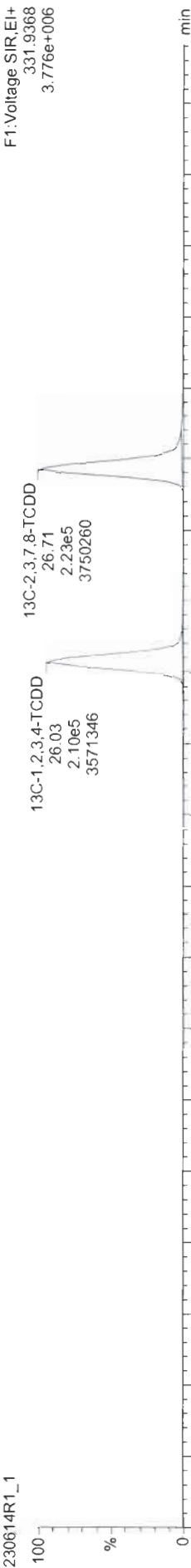
Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

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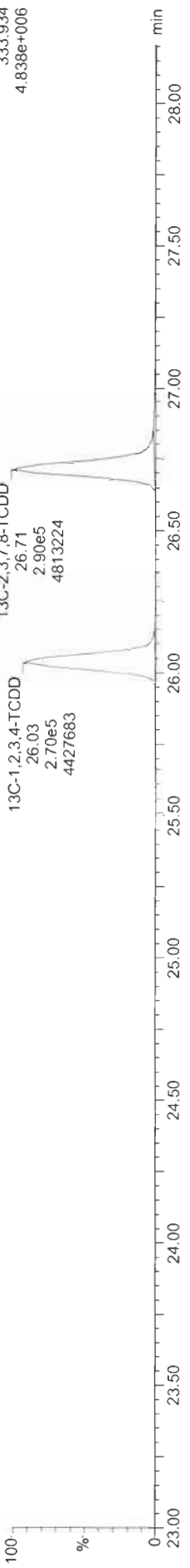
37Cl-2,3,7,8-TCDD



13C-1,2,3,4-TCDD



230614R1_1

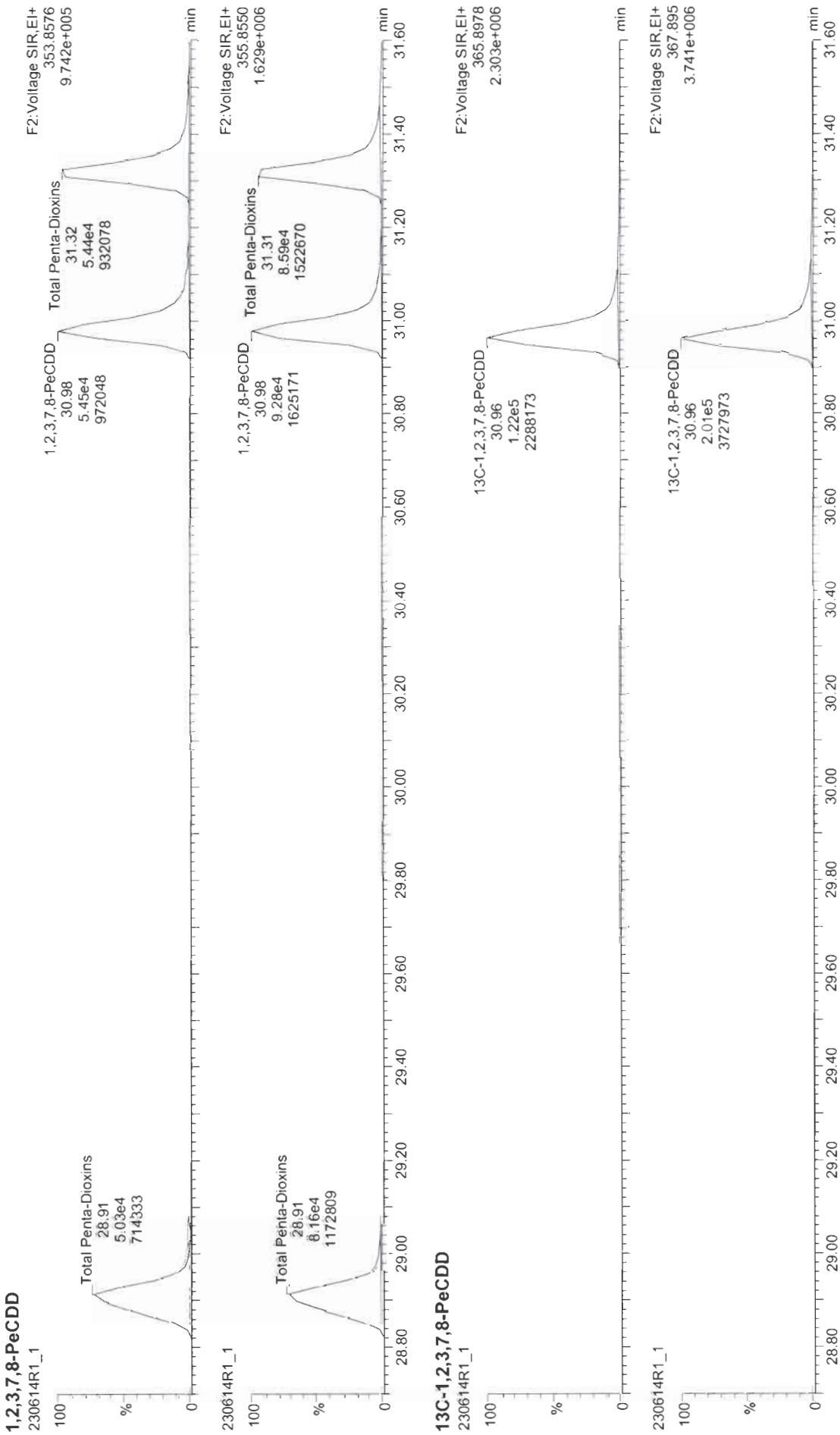


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Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time

Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

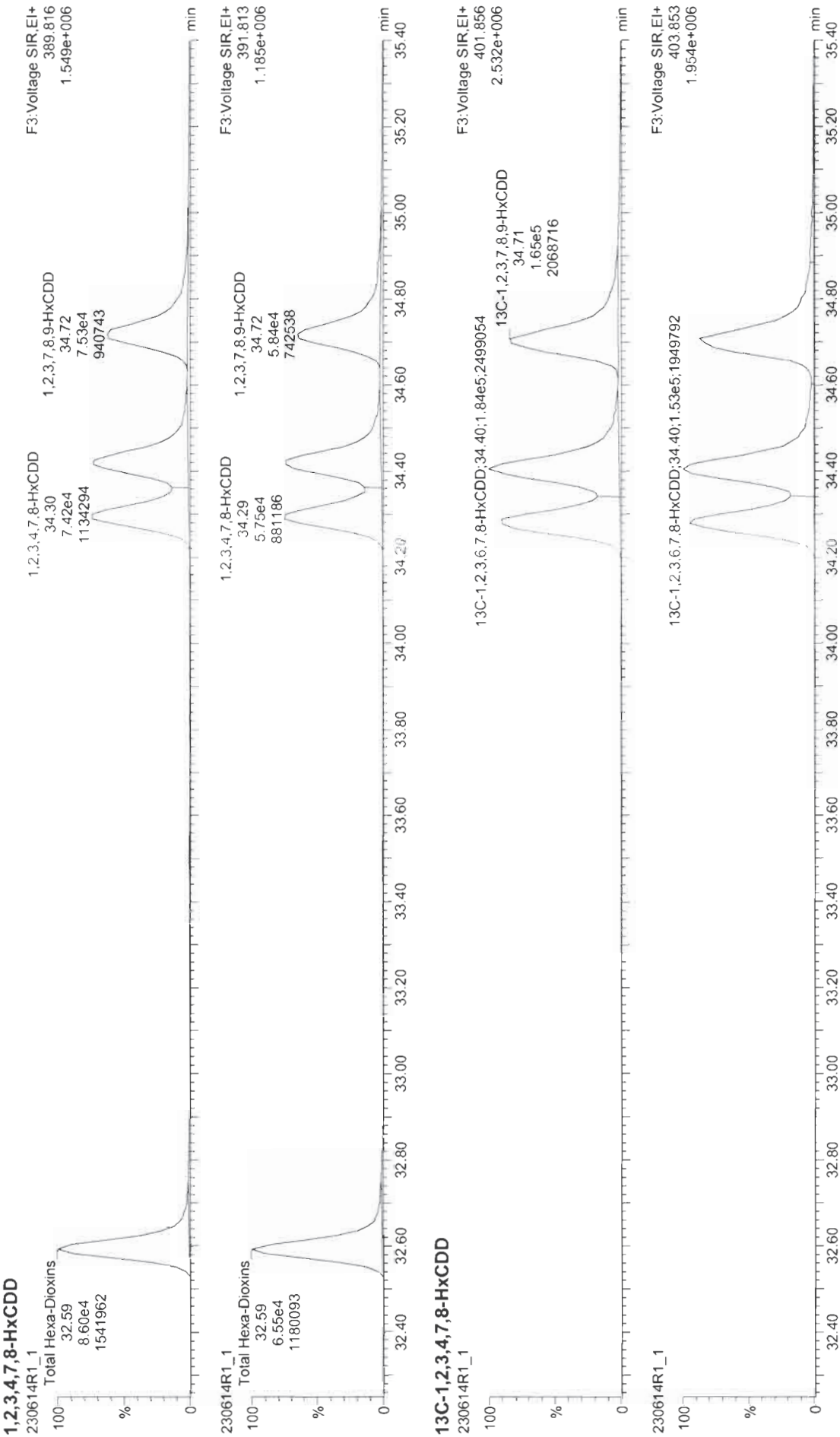
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Dataset: Untitled

Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

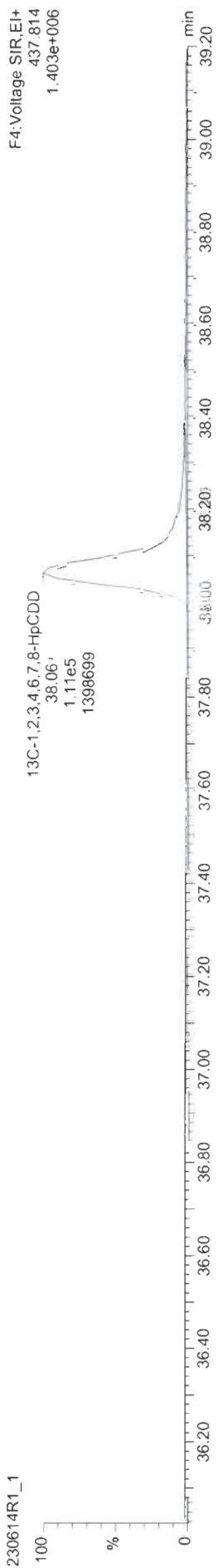
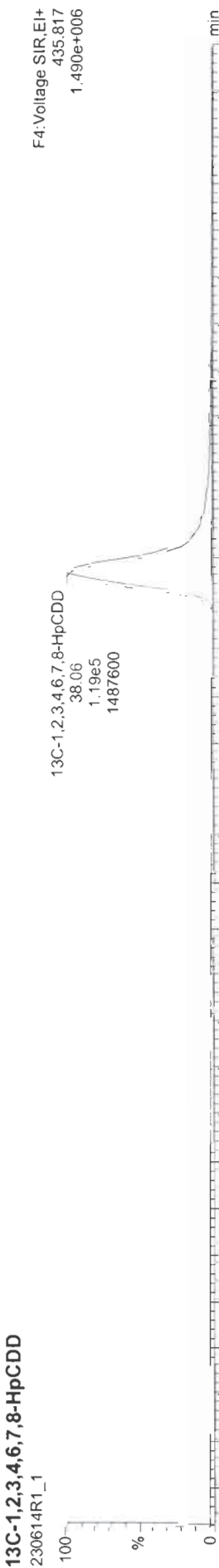
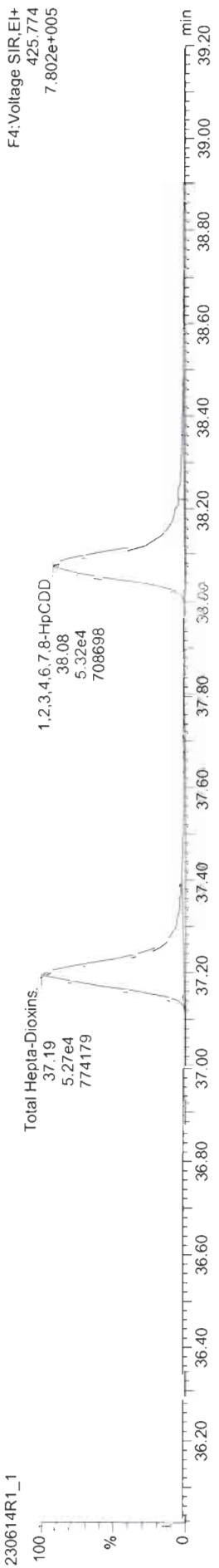
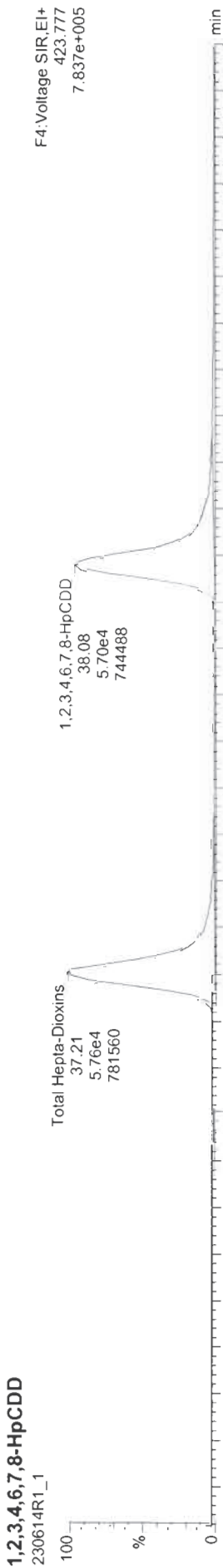


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Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time

Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

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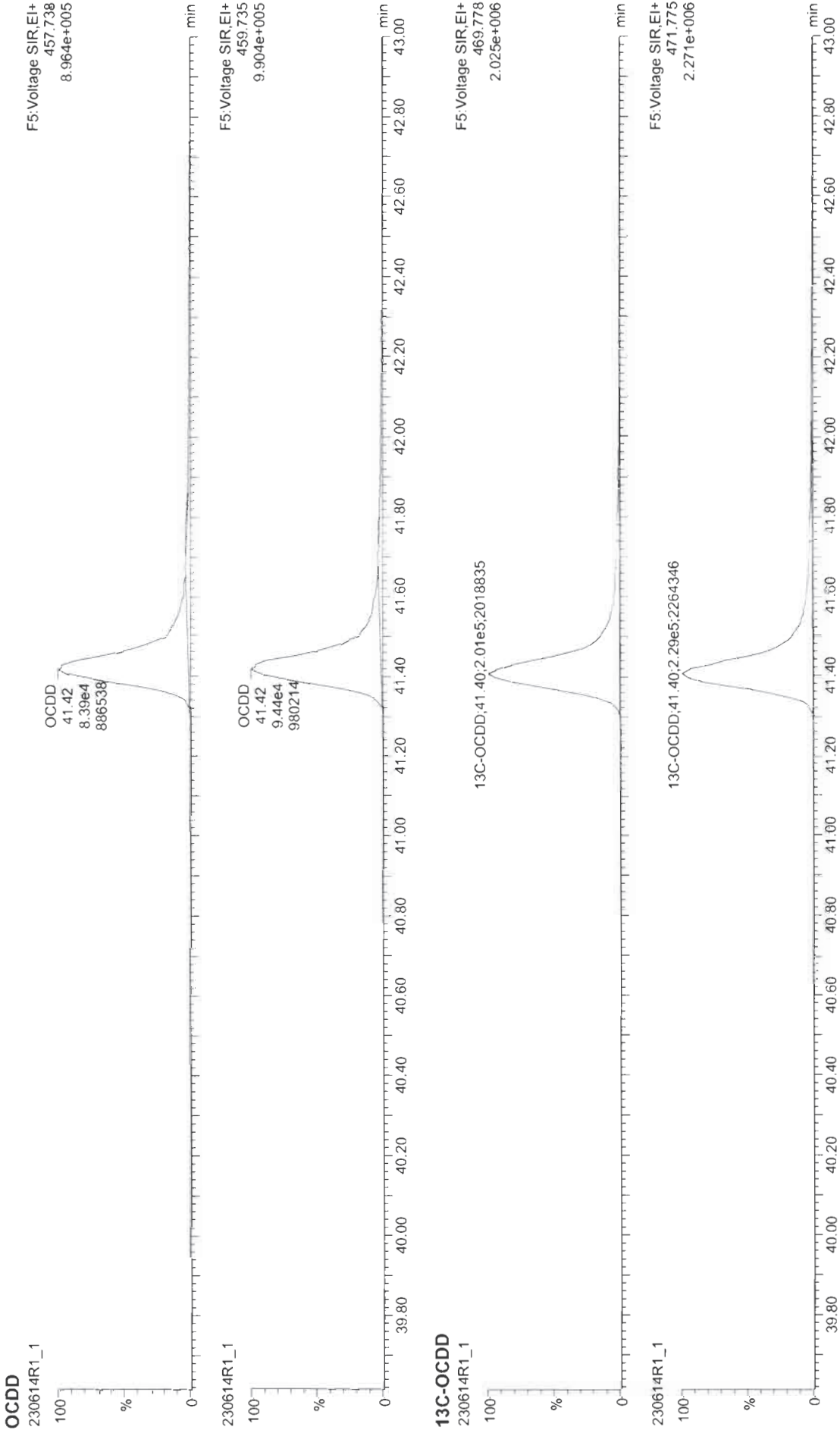


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Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time

Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

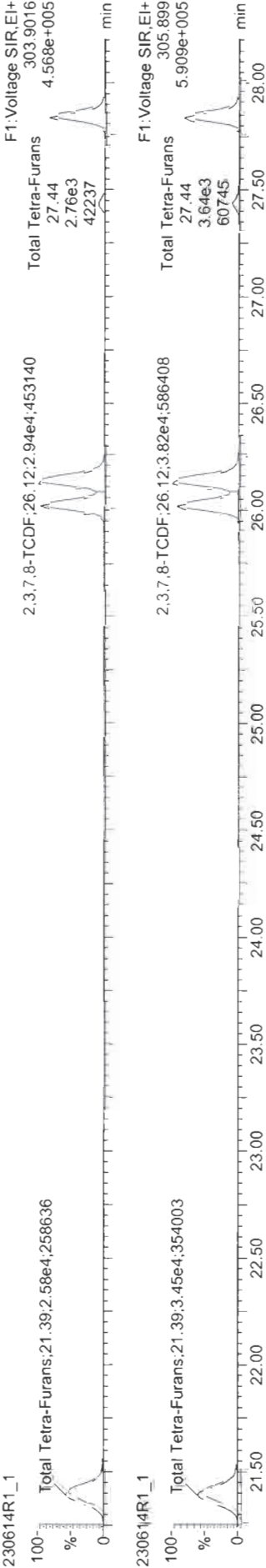


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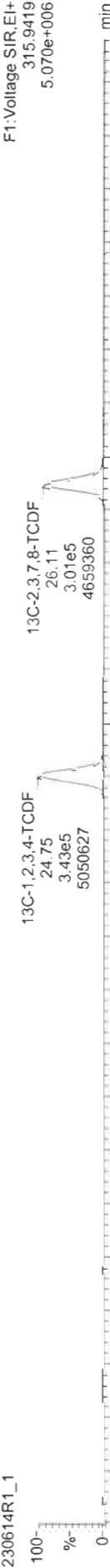
Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

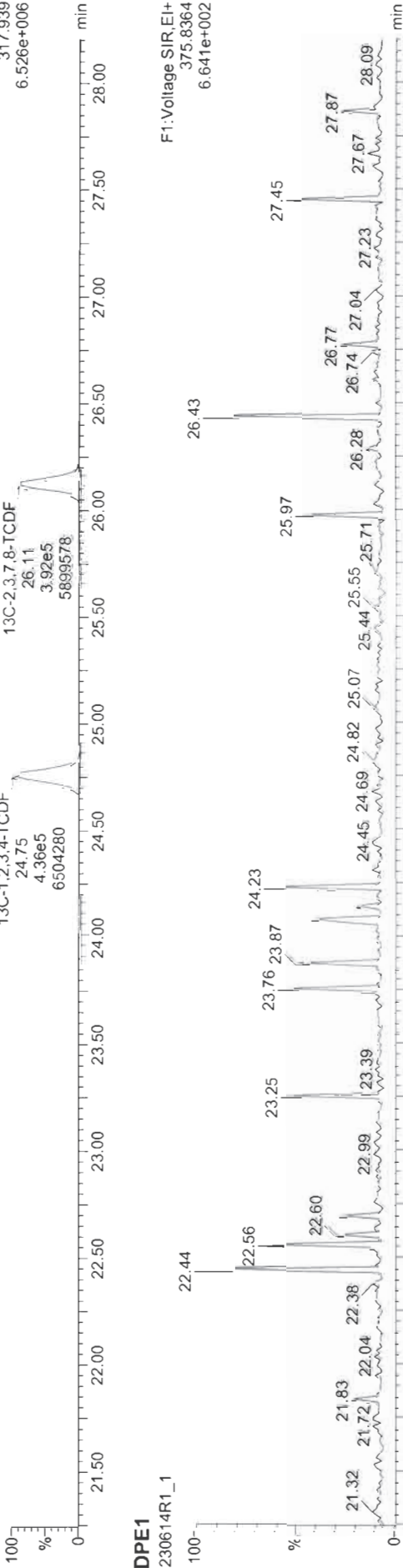
2,3,7,8-TCDF



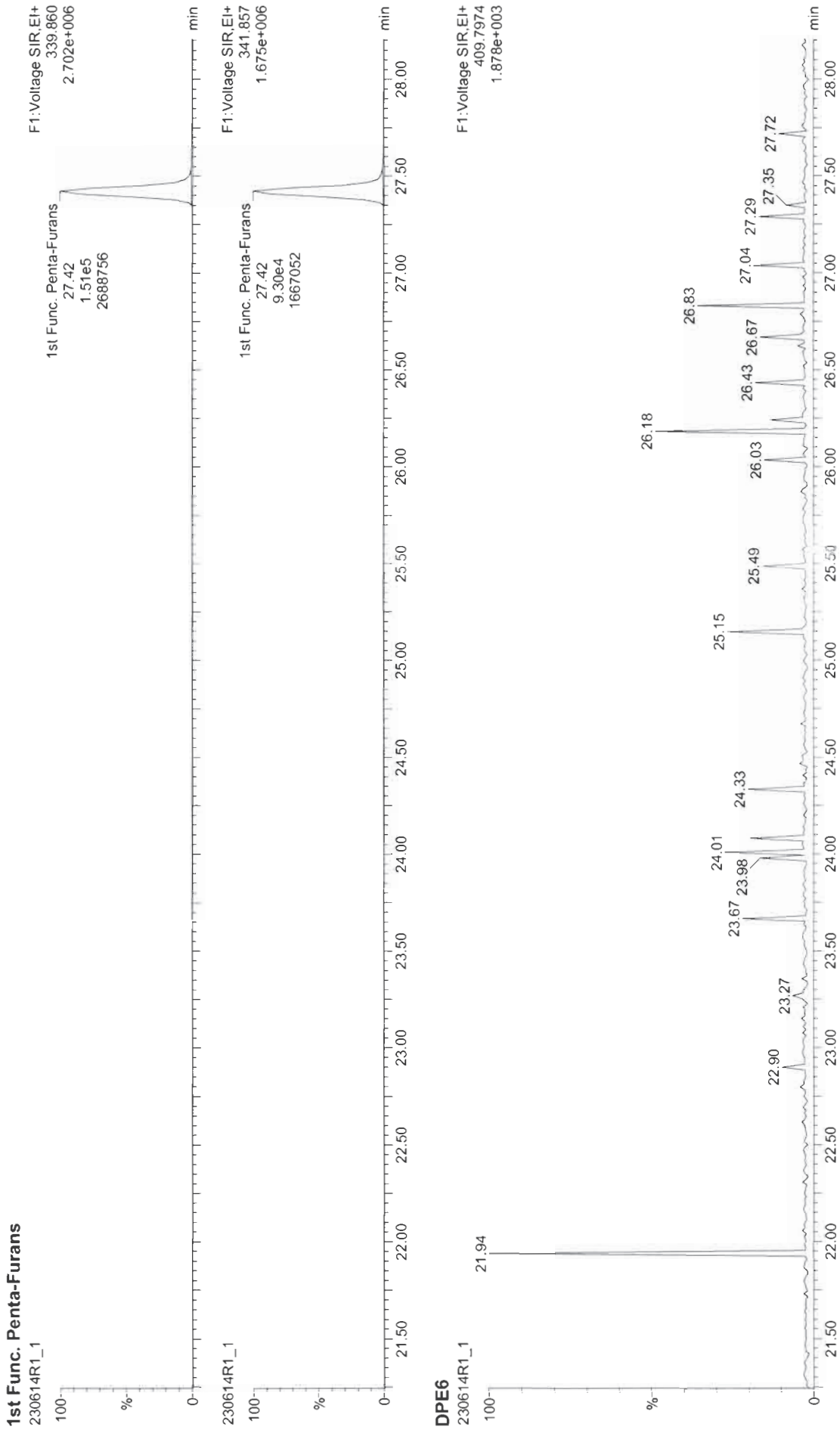
13C-2,3,7,8-TCDF



DPE1



Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

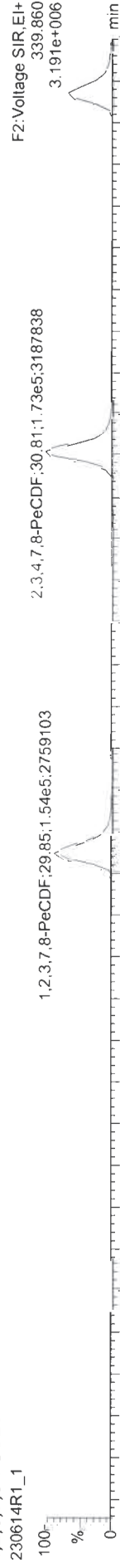


Dataset: Untitled

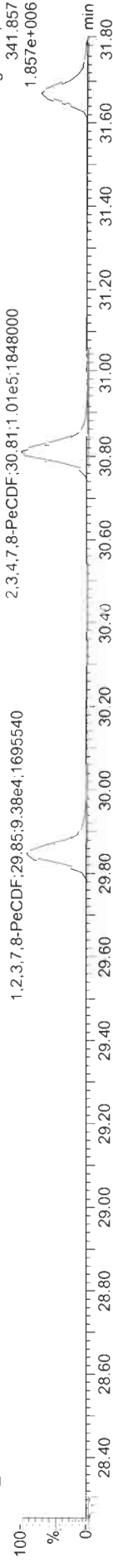
Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

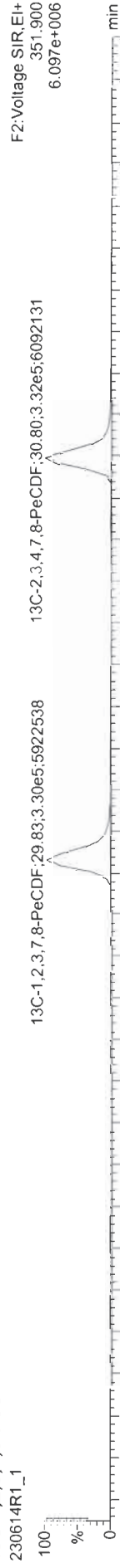
1,2,3,7,8-PeCDF



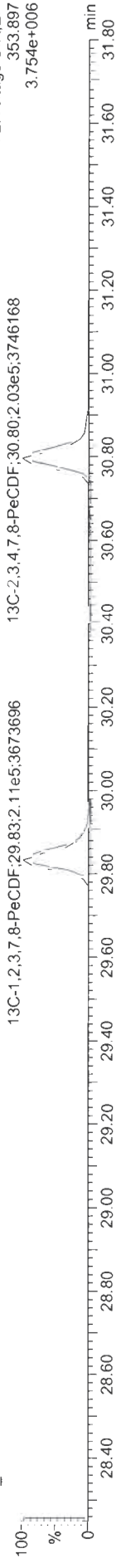
13C-1,2,3,7,8-PeCDF



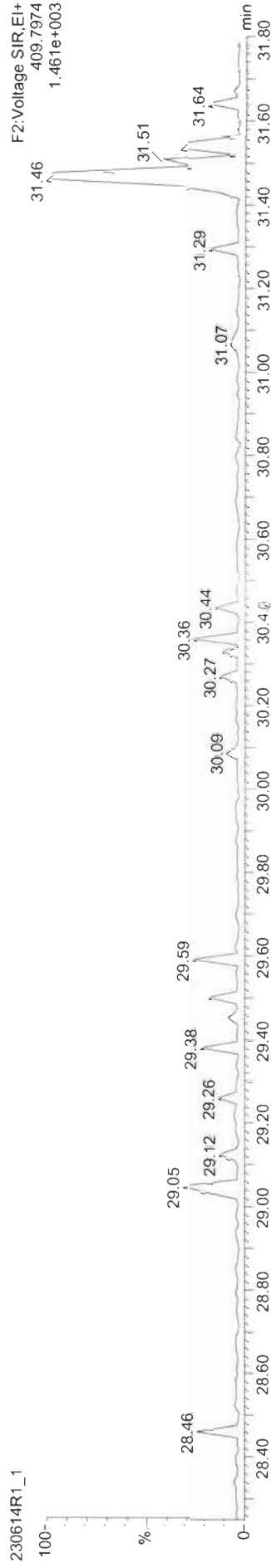
13C-1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2

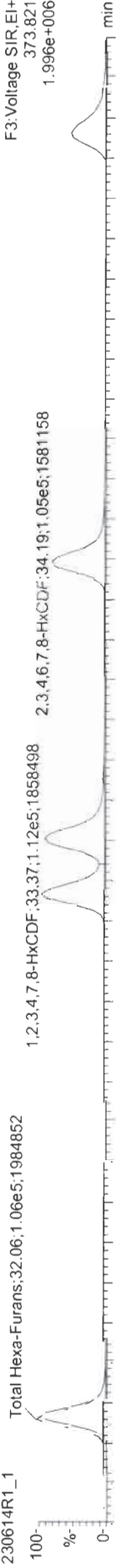


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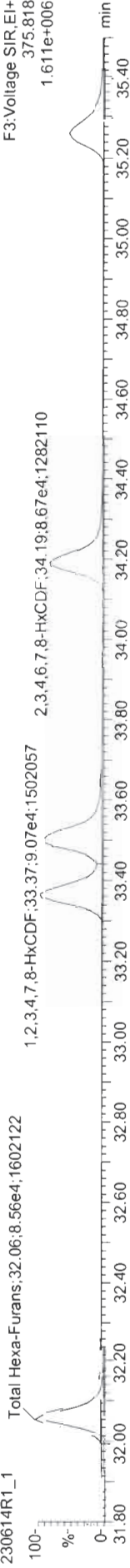
Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

1,2,3,4,7,8-HxCDF



230614R1_1



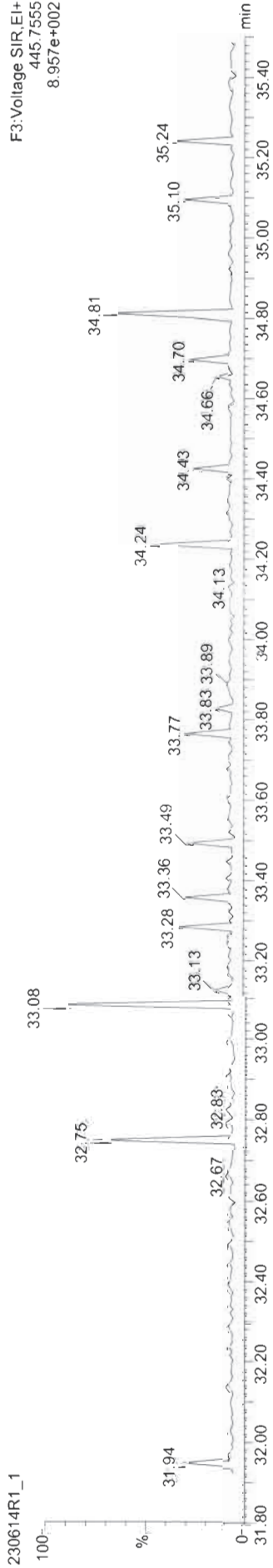
13C-1,2,3,4,7,8-HxCDF

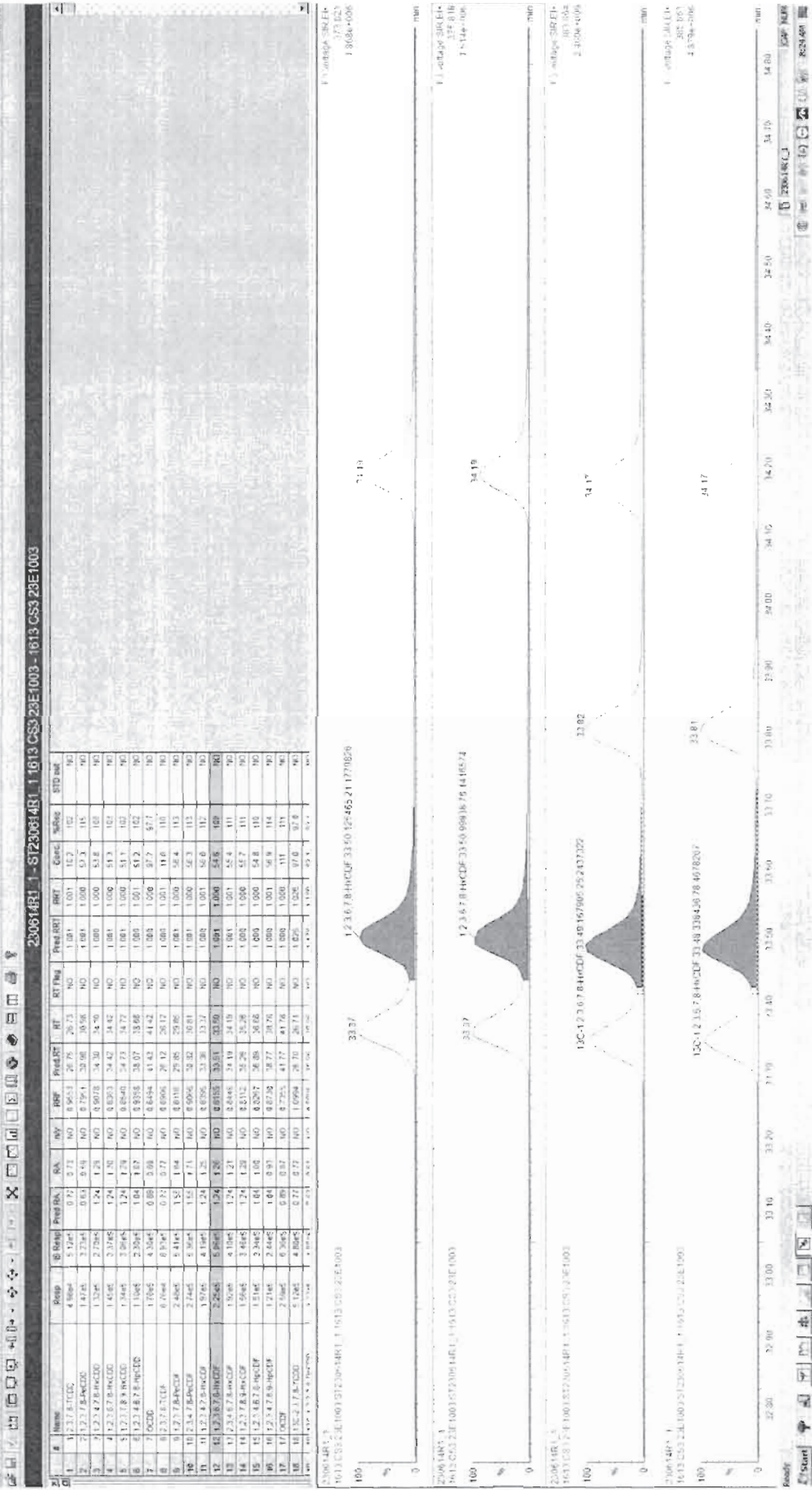


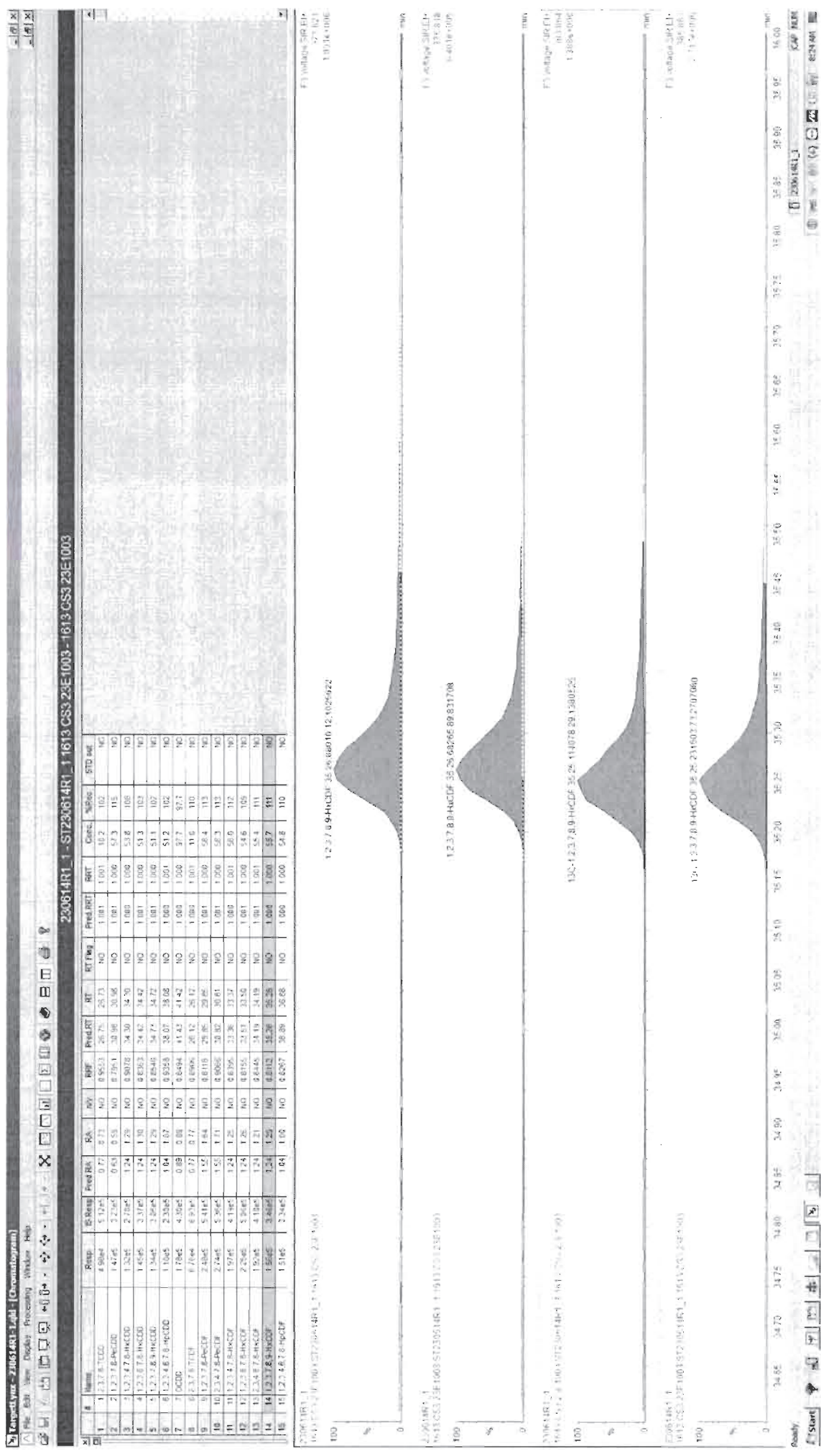
230614R1_1



DPE3





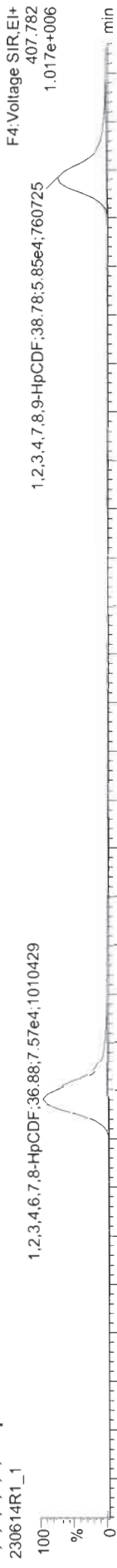


Dataset: Untitled

Last Altered: Thursday, June 15, 2023 08:14:09 Pacific Daylight Time
Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

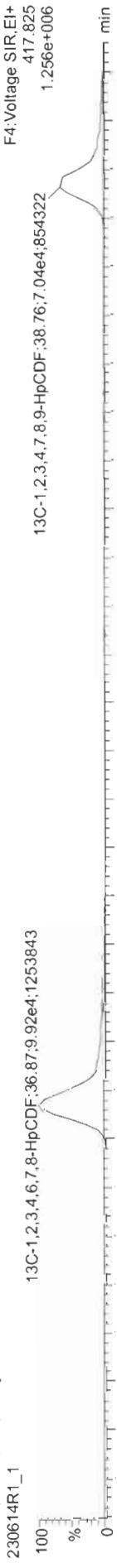
1,2,3,4,6,7,8-HpCDF



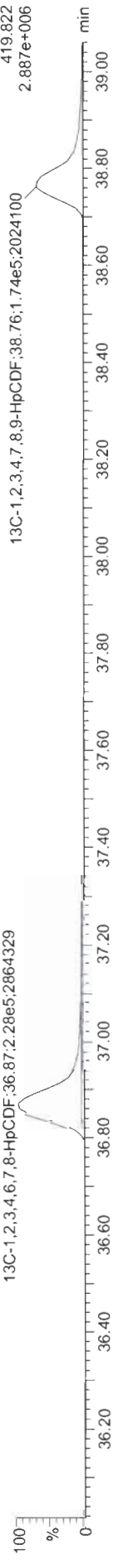
13C-1,2,3,4,6,7,8-HpCDF



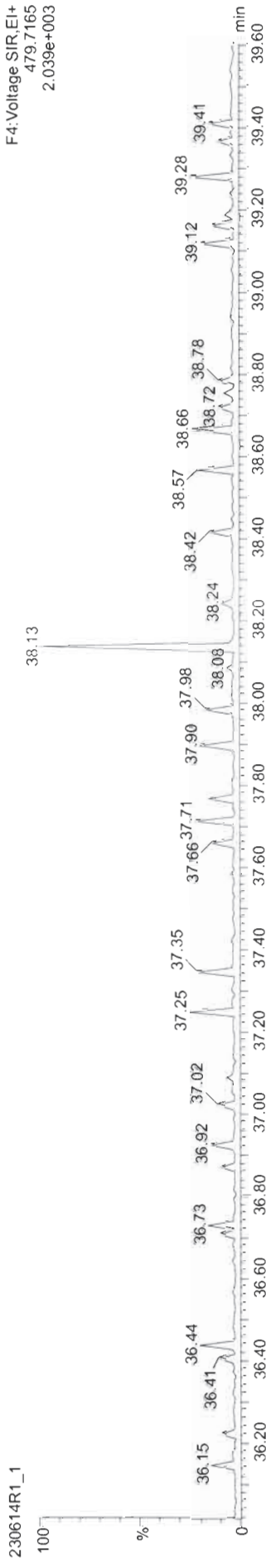
13C-1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF

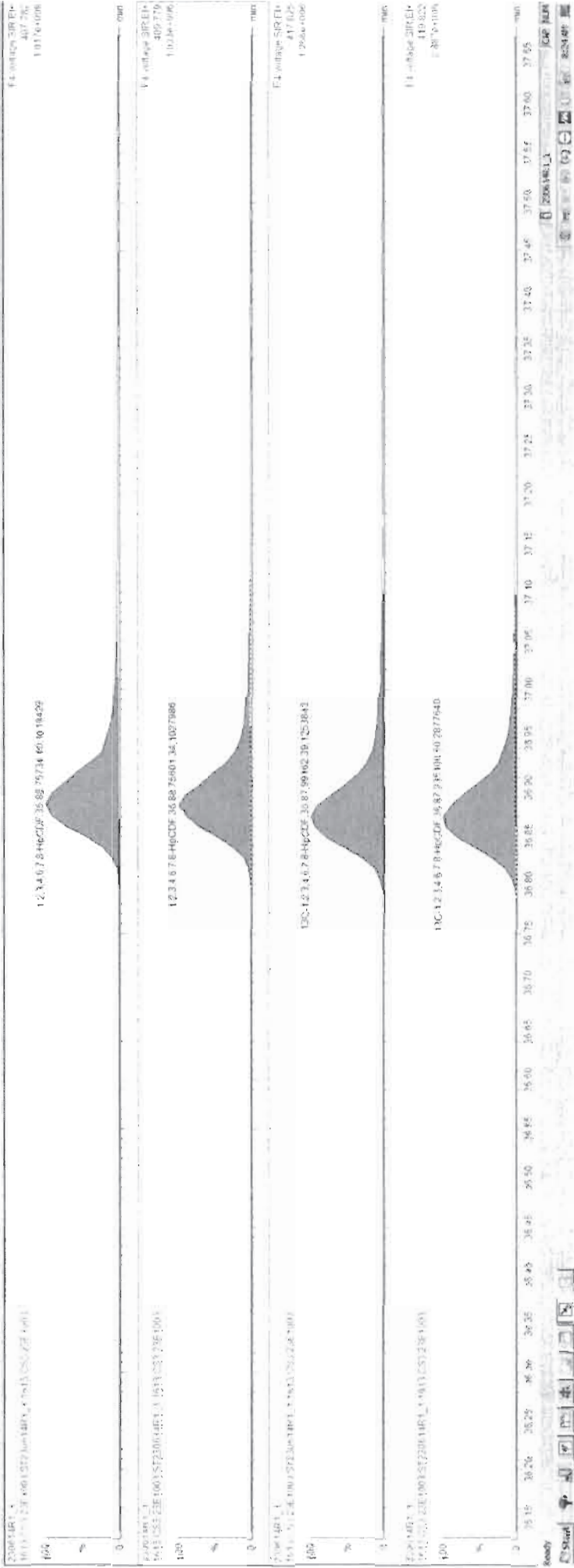


DPE4



230614R1 1 - ST230614R1 1 1613 CS3 23E1003 - 1613 CS3 23E1003

#	Name	IS Resp	Pred RA	RA	nR	DSF	Pred RT	RT	RT Flag	Pred RRT	RRT	Curs.	%Rec	STD test
15	15 12.3 4.8 7.8-HPCDF	1.5165	1.84	1.92	60	0.8267	35.98	N0	1.000	1.000	54.0	110		160
16	16 13.7 4.7 5.5-HPCDF	1.3165	2.444*	1.94	30	0.8770	36.77	35.75	N0	1.000	1.001	55.9	114	160
17	17 13 OCH	2.5845	0.5945	0.66	107	0.7355	41.77	-41.78	N0	1.000	1.000	111	111	160
18	18 13C 2 3 7.8-TCDF	5.1265	0.71	0.17	60	1.0954	20.70	25.71	N0	1.020	1.020	67.0	97.6	160
19	19 13C 1 2 3 7.8-PCDF	2.7365	4.8565	0.63	60	0.8095	39.98	30.96	N0	1.179	1.169	85.1	82.1	160
20	20 15C 1 3 3 4 7.8-HPCDF	2.7045	4.8565	1.24	120	0.8471	34.27	34.20	N0	1.013	1.014	85.9	86.9	160
21	21 13C 1 3 3 6 7.8-HPCDF	3.7145	4.8565	1.24	120	0.7060	34.42	34.40	N0	1.018	1.017	86.1	86.1	160
22	22 13C 1 3 3 8 8-HPCDF	7.6645	4.8565	1.24	117	0.8966	34.71	34.71	N0	1.020	1.020	96.6	96.6	160
23	23 13C 1 3 3 4 7.8-HPCDF	2.3045	4.8565	1.64	117	0.8497	35.08	35.08	N0	1.126	1.126	96.2	96.2	160
24	24 13C-OCDF	4.3045	4.8565	0.66	60	0.8417	41.37	41.40	N0	1.223	1.224	104	119	160
25	25 13C-2 1 7.8-TCDF	8.9345	7.7465	0.77	60	1.0408	26.11	26.11	N0	1.002	1.003	85.4	85.4	160
26	26 13C 1 2 3 7.8-PCDF	5.8165	7.7465	1.55	157	0.8107	25.00	25.03	N0	1.146	1.146	84.7	84.7	160
27	27 13C 2 3 4 7.8-PCDF	5.3045	7.7365	1.65	162	0.7964	30.75	30.60	N0	1.181	1.181	99.0	99.0	160
28	28 15C 1 2 3 4 7.8-HPCDF	4.1465	4.8565	0.51	60	0.9714	33.38	33.32	N0	0.987	0.986	92.8	92.8	160
29	29 13C 1 2 3 6 7.8-HPCDF	5.0645	4.8565	0.50	60	1.0358	23.50	23.49	N0	0.995	0.990	101	101	160

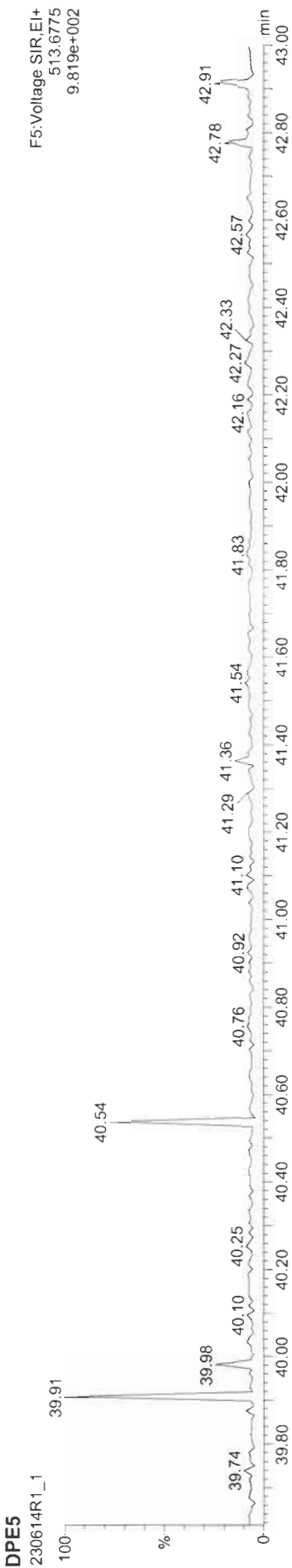
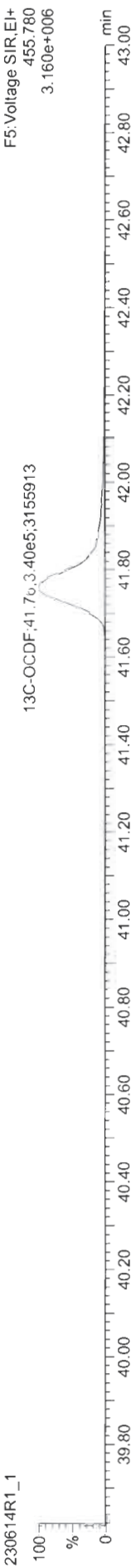
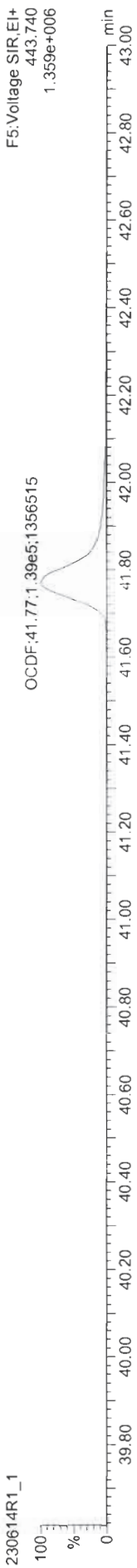
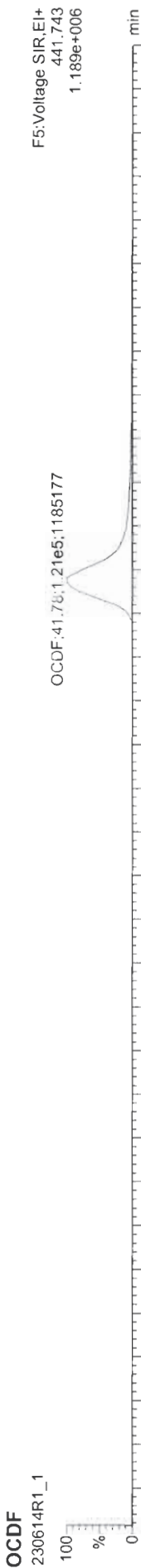


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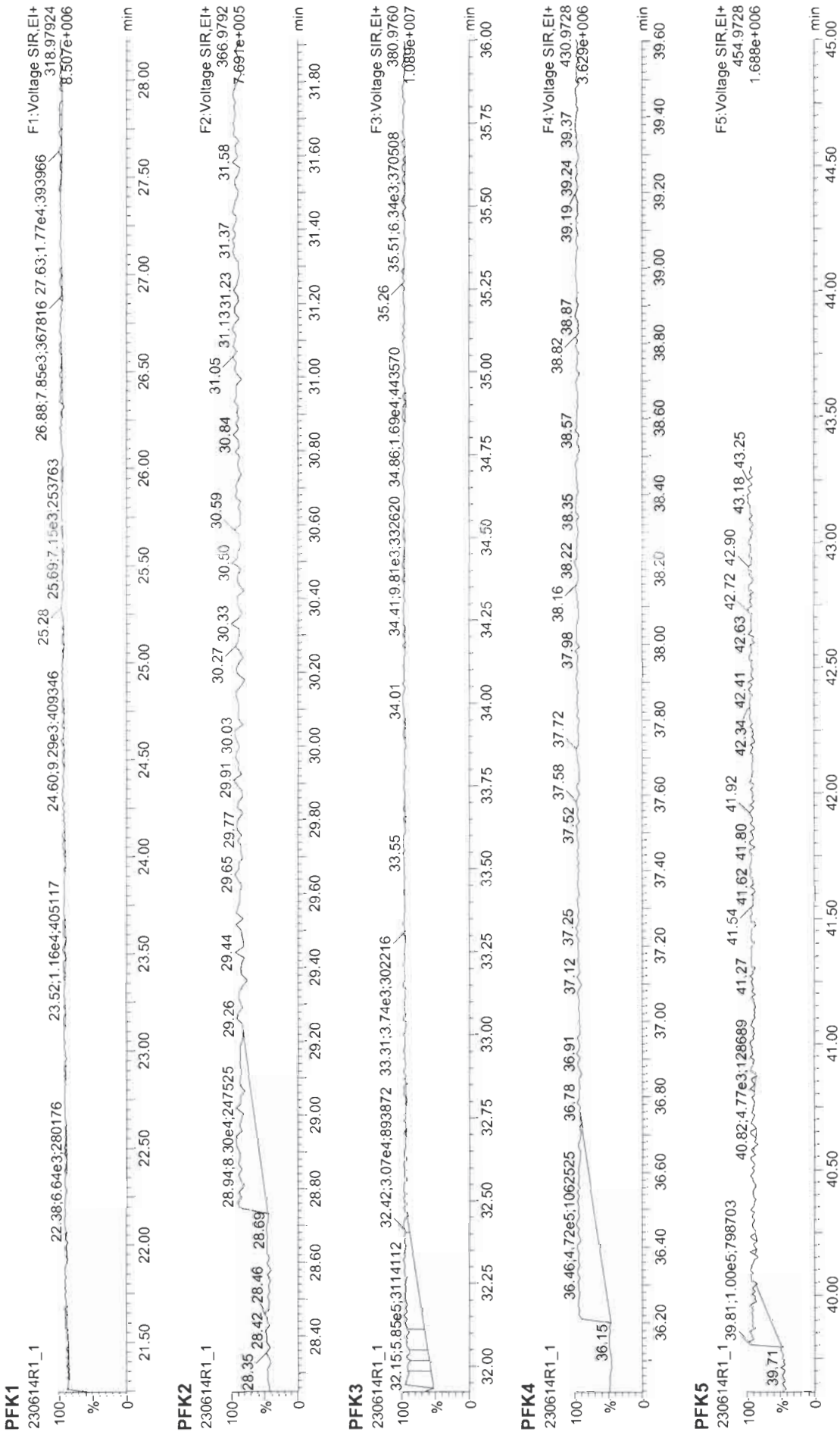
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Printed: Thursday, June 15, 2023 08:18:06 Pacific Daylight Time

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Name: 230614R1_1, Date: 14-Jun-2023, Time: 14:14:35, ID: ST230614R1_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

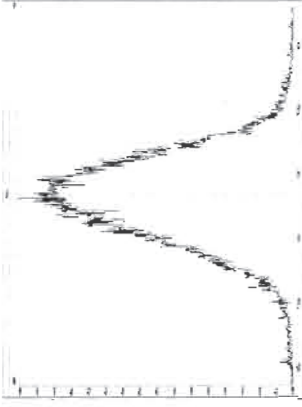


Resolution Check Report

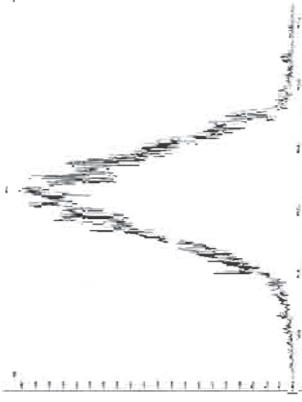
MassLynx 4.1 SCN815

Printed: Thursday, June 15, 2023 02:30:26 Pacific Daylight Time

M 292.9824 R 10355



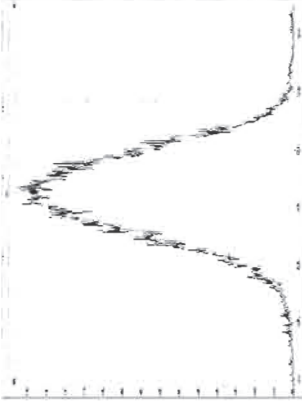
M 304.9824 R 11688



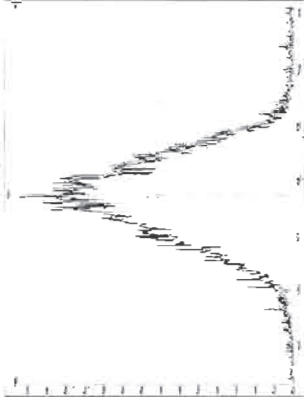
M 318.9792 R 10418



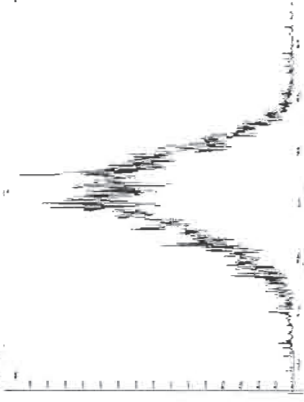
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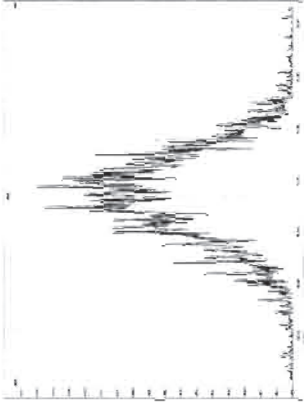
M 342.9792 R 11116



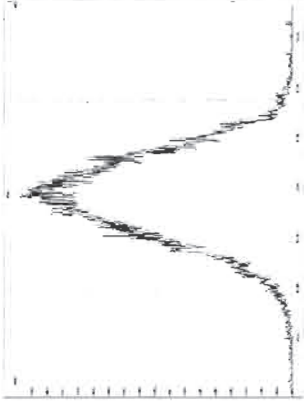
M 354.9792 R 11857



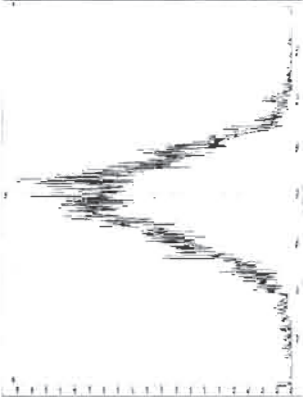
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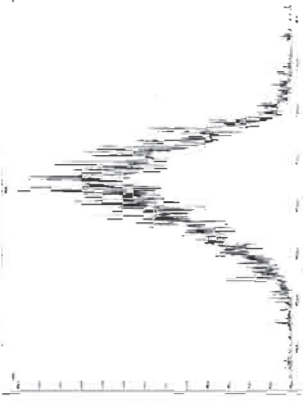
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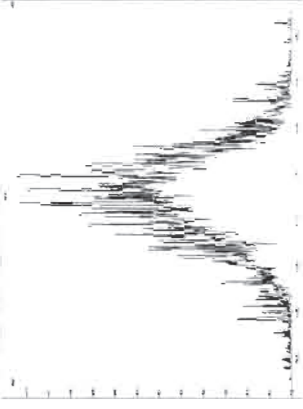
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M 404.9760 R 11293



M 416.9760 R 12606



M 318.9792 R 10551



Resolution Check Report

MassLynx 4.1 SCN815

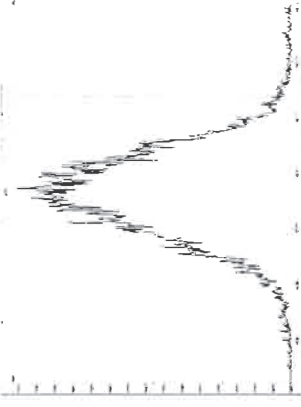
Page 2 of 4

Printed: Thursday, June 15, 2023 02:30:26 Pacific Daylight Time

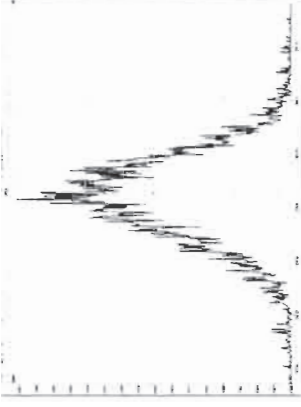
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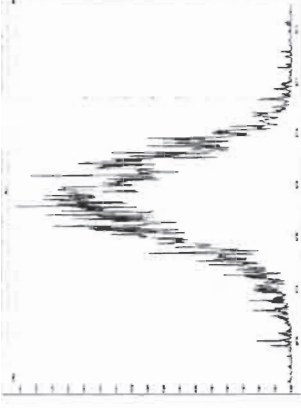
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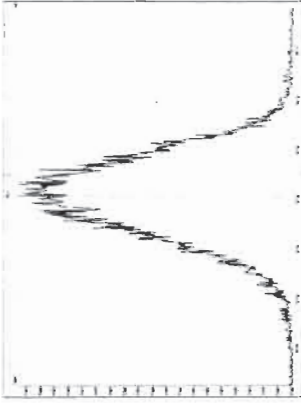
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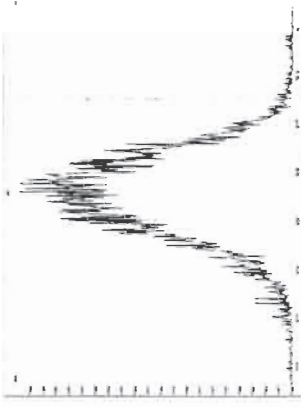
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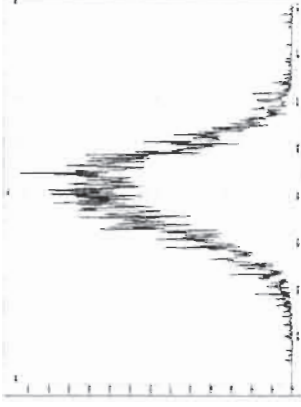
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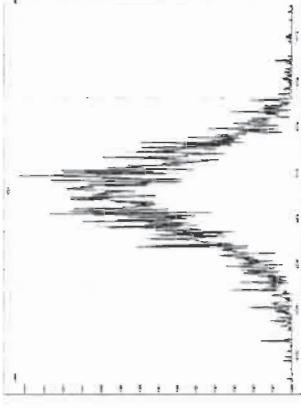
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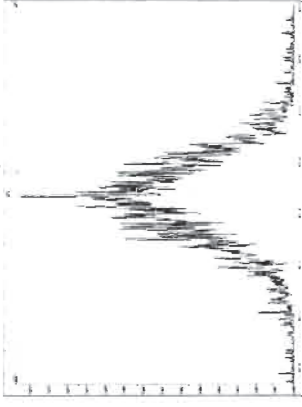
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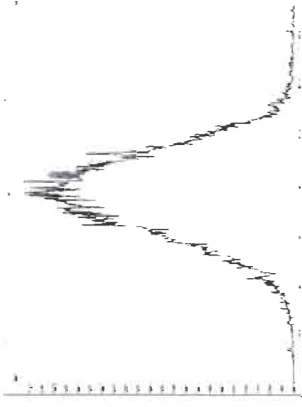
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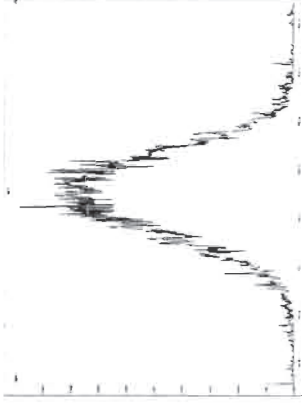
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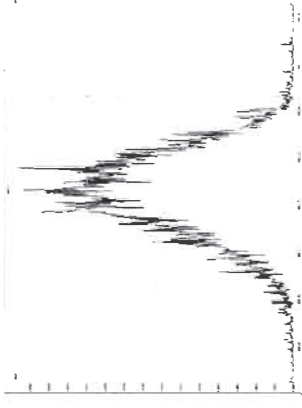
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M 392.9760 R 10849



M 404.9760 R 11417



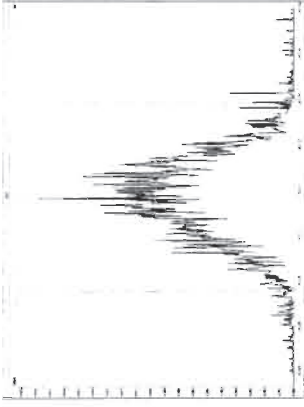
Resolution Check Report

MassLynx 4.1 SCN815

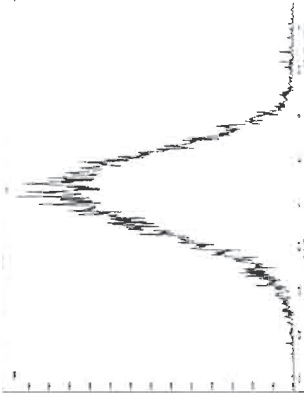
Page 3 of 4

Printed: Thursday, June 15, 2023 02:30:26 Pacific Daylight Time

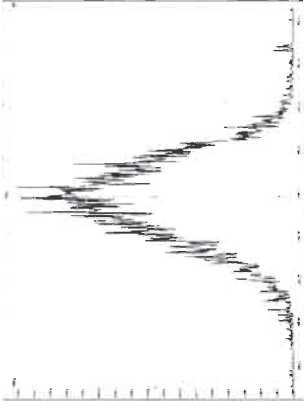
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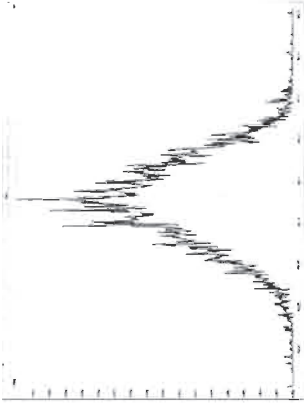
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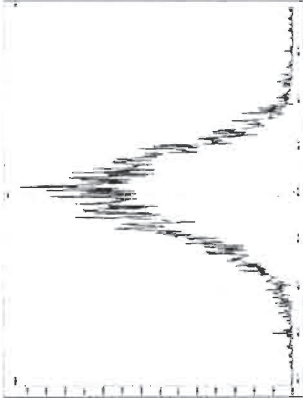
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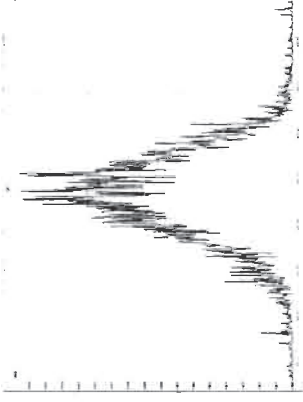
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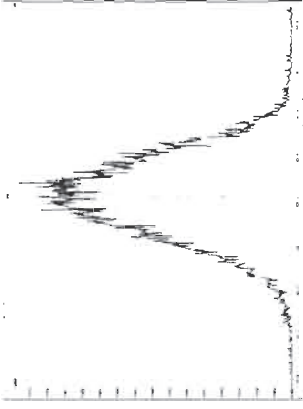
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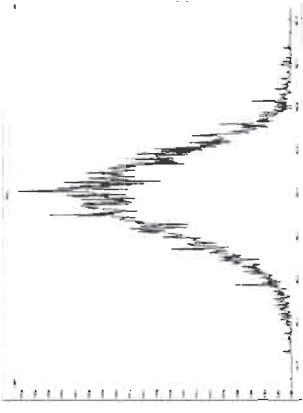
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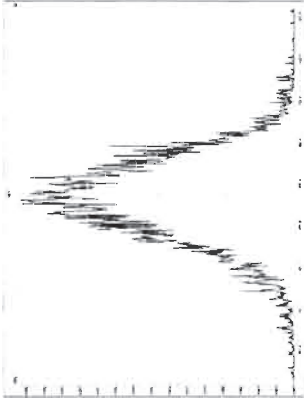
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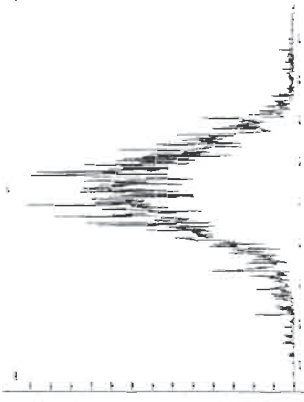
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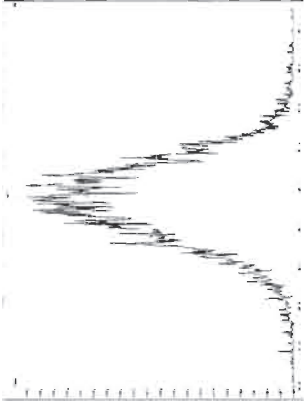
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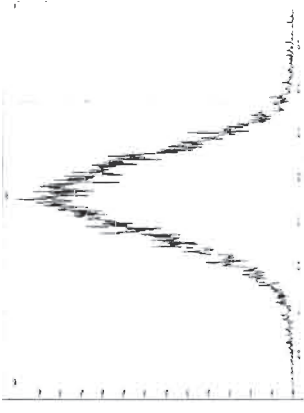
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M 480.9696 R 11392



M 430.9728 R 10416

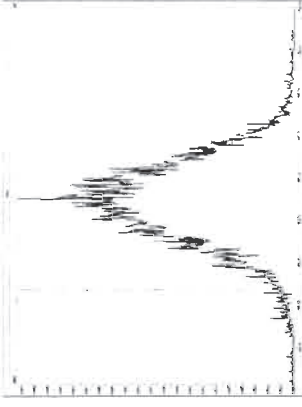


Resolution Check Report

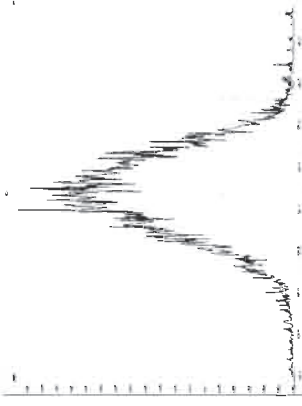
MassLynx 4.1 SCN815

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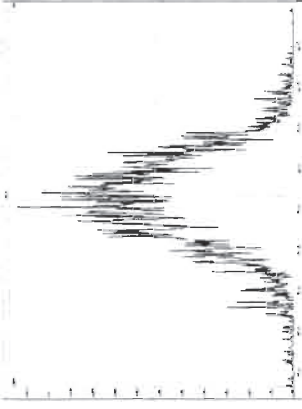
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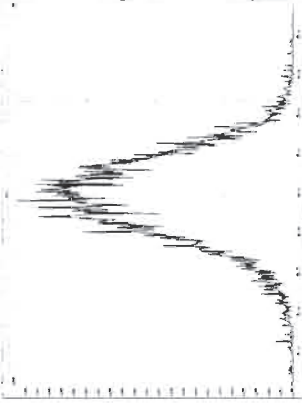
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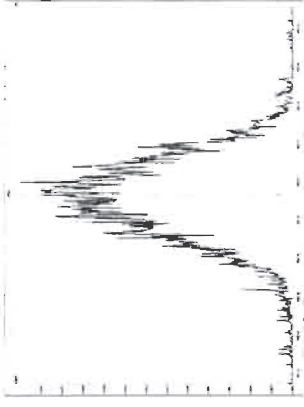
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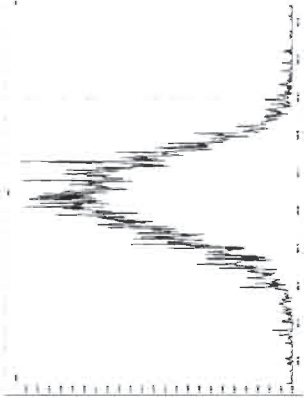
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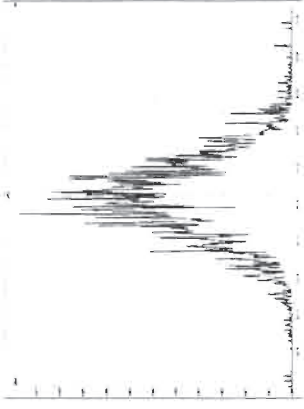
M 492.9696 R 11263



M 504.9696 R 11235



M 516.9697 R 12251



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST230622R2-1

Reviewed By: DP06/23/23

End Calibration ID: ST230622R3-1

Initials & Date

Beg. ☒ End ☒

Beg. ☒ End ☒

Ion abundance within QC limits?

Mass resolution $\geq$

Concentrations within criteria?

☐ 5k ☐ 6-8K ☐ 8K ☒ 10K

1614 1699 429 1613/1668/8280

TCDD/TCDF Valleys <25%

Integrated peaks display correctly?

First and last eluters present?

GC Break <20%

Retention Times within criteria?

8280 CS1 End Standard:

Verification Std. named correctly?

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

(ST-Year-Month-Day-VG ID)

Forms signed and dated?

Correct ICAL referenced?

Run Log:

- Correct instrument listed?

- Samples within 12 hour clock?

- Bottle position verified?

Comments:

Some masses <10K, OK ATM 06/23/23

Dataset: I:\VG12.PRO\Results\230622R2\230622R2-1.qld

Last Altered: Friday, June 23, 2023 08:08:13 Pacific Daylight Time
Printed: Friday, June 23, 2023 08:08:46 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rt-6-20-23.mdb 20 Jun 2023 11:15:18
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\DIOLIN_1613vg12-6-21-23.cdb 22 Jun 2023 08:14:04

Name: 230622R2_1, Date: 22-Jun-2023, Time: 13:10:10, ID: ST230622R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

Yfda/23/23
AN 06/23/23

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	3.97e4	4.81e5	0.78	NO	0.810	26.55	26.64	NO	1.001	1.001	10.180	102	NO
2	2 1,2,3,7,8-PeCDD	1.29e5	3.29e5	0.59	NO	0.688	30.92	30.93	NO	1.001	1.001	56.890	114	NO
3	3 1,2,3,4,7,8-HxCDD	1.02e5	2.50e5	1.24	NO	0.772	34.22	34.23	NO	1.000	1.001	52.884	106	NO
4	4 1,2,3,6,7,8-HxCDD	1.07e5	2.88e5	1.28	NO	0.715	34.36	34.35	NO	1.001	1.000	52.102	104	NO
5	5 1,2,3,7,8,9-HxCDD	1.03e5	2.80e5	1.23	NO	0.719	34.65	34.65	NO	1.001	1.001	51.317	103	NO
6	6 1,2,3,4,6,7,8-HpCDD	7.79e4	1.92e5	0.98	NO	0.745	38.01	38.01	NO	1.000	1.000	54.516	109	NO
7	7 OCDD	1.35e5	3.60e5	0.91	NO	0.706	41.35	41.34	NO	1.000	1.000	105.83	106	NO
8	8 2,3,7,8-TCDF	4.29e4	5.66e5	0.75	NO	0.684	26.03	26.03	NO	1.000	1.001	11.058	111	NO
9	9 1,2,3,7,8-PeCDF	1.87e5	4.74e5	1.62	NO	0.698	29.79	29.78	NO	1.001	1.001	56.540	113	NO
10	10 2,3,4,7,8-PeCDF	2.11e5	4.71e5	1.56	NO	0.775	30.76	30.75	NO	1.001	1.000	57.676	115	NO
11	11 1,2,3,4,7,8-HxCDF	1.28e5	2.91e5	1.26	NO	0.785	33.30	33.30	NO	1.000	1.000	55.819	112	NO
12	12 1,2,3,6,7,8-HxCDF	1.39e5	3.26e5	1.23	NO	0.748	33.45	33.45	NO	1.001	1.001	56.822	114	NO
13	13 2,3,4,6,7,8-HxCDF	1.26e5	2.90e5	1.24	NO	0.770	34.14	34.13	NO	1.001	1.000	56.546	113	NO
14	14 1,2,3,7,8,9-HxCDF	1.02e5	2.37e5	1.25	NO	0.766	35.19	35.20	NO	1.000	1.001	55.851	112	NO
15	15 1,2,3,4,6,7,8-HpCDF	9.45e4	2.07e5	1.01	NO	0.834	36.82	36.81	NO	1.000	1.000	54.733	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	7.53e4	1.52e5	1.03	NO	0.863	38.72	38.72	NO	1.000	1.000	57.378	115	NO
17	17 OCDF	1.46e5	4.08e5	0.86	NO	0.651	41.68	41.69	NO	1.000	1.001	109.68	110	NO
18	18 13C-2,3,7,8-TCDD	4.81e5	4.50e5	0.75	NO	1.10	26.59	26.62	NO	1.026	1.027	96.850	96.8	NO
19	19 13C-1,2,3,7,8-PeCDD	3.29e5	4.50e5	0.60	NO	0.864	30.86	30.90	NO	1.190	1.192	84.623	84.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.50e5	3.23e5	1.26	NO	0.834	34.20	34.21	NO	1.013	1.014	92.825	92.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	2.88e5	3.23e5	1.30	NO	0.916	34.35	34.34	NO	1.018	1.017	97.208	97.2	NO
22	22 13C-1,2,3,7,8,9-HxCDD	2.80e5	3.23e5	1.29	NO	0.930	34.65	34.63	NO	1.026	1.026	93.068	93.1	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.92e5	3.23e5	1.04	NO	0.675	37.98	38.00	NO	1.125	1.126	87.978	88.0	NO
24	24 13C-OCDD	3.60e5	3.23e5	0.95	NO	0.568	41.34	41.33	NO	1.225	1.224	196.30	98.1	NO
25	25 13C-2,3,7,8-TCDF	5.66e5	5.97e5	0.77	NO	1.06	26.00	26.02	NO	1.003	1.003	89.307	89.3	NO
26	26 13C-1,2,3,7,8-PeCDF	4.74e5	5.97e5	1.57	NO	0.873	29.73	29.77	NO	1.147	1.148	90.968	91.0	NO
27	27 13C-2,3,4,7,8-PeCDF	4.71e5	5.97e5	1.57	NO	0.866	30.69	30.73	NO	1.184	1.185	91.195	91.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	2.91e5	3.23e5	0.48	NO	0.987	33.31	33.29	NO	0.987	0.986	91.317	91.3	NO
29	29 13C-1,2,3,6,7,8-HxCDF	3.26e5	3.23e5	0.50	NO	1.06	33.43	33.43	NO	0.990	0.990	95.352	95.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	2.90e5	3.23e5	0.48	NO	0.950	34.11	34.12	NO	1.010	1.011	94.472	94.5	NO

Dataset: I:\VG12_PRO\Results\230622R2\230622R2-1.qld

Last Altered: Friday, June 23, 2023 08:08:13 Pacific Daylight Time
Printed: Friday, June 23, 2023 08:08:46 Pacific Daylight Time

Name: 230622R2_1, Date: 22-Jun-2023, Time: 13:10:10, ID: ST230622R2_1 1613 CS3 23E1003, Description: 1613 CS3 23E1003

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
31	13C-1,2,3,7,8,9-HxCDF	2.37e5	3.23e5	0.49	NO	0.830	35.17	35.18	NO	1.042	1.042	88.450	88.4	NO
32	13C-1,2,3,4,6,7,8-HpCDF	2.07e5	3.23e5	0.41	NO	0.683	36.78	36.80	NO	1.090	1.090	93.867	93.9	NO
33	13C-1,2,3,4,7,8,9-HpCDF	1.52e5	3.23e5	0.39	NO	0.544	38.67	38.71	NO	1.146	1.147	86.633	86.6	NO
34	13C-OCDF	4.08e5	3.23e5	0.85	NO	0.646	41.68	41.67	NO	1.235	1.235	195.37	97.7	NO
35	37Cl-2,3,7,8-TCDD	3.92e4	4.50e5			0.905	26.60	26.64	NO	1.026	1.027	9.6236	96.2	NO
36	13C-1,2,3,4-TCDD	4.50e5	4.50e5	0.76	NO	1.00	25.99	25.93	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	5.97e5	5.97e5	0.75	NO	1.00	24.70	24.63	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	3.23e5	3.23e5	0.47	NO	1.00	33.79	33.75	NO	1.000	1.000	100.00	100	YES

Dataset: Untitled

Last Altered: Friday, June 23, 2023 09:48:47 Pacific Daylight Time
Printed: Friday, June 23, 2023 09:48:56 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613rrt-6-20-23.mdb 20 Jun 2023 11:15:18
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\ldbDIOXIN_1613vg12-6-21-23.cdb 22 Jun 2023 08:14:04

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
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2	230622R2_2	B23F146-BS1 OPR 5	22-Jun-23	13:57:55
3	230622R2_3	SOLVENT BLANK	22-Jun-23	14:42:30
4	230622R2_4	B23F146-BLK1 Method Blank 5	22-Jun-23	15:27:37
5	230622R2_5	2305176-04 051723-06 0.99641	22-Jun-23	16:12:43
6	230622R2_6	2305176-05 051723-05 1 06099	22-Jun-23	16:57:51
7	230622R2_7	2305176-07 051723-08 1 01012	22-Jun-23	17:42:55
8	230622R2_8	2305176-08 051723-09 1 0364	22-Jun-23	18:28:02
9	230622R2_9	2305176-09 051723-10 1 02897	22-Jun-23	19:13:04
10	230622R2_10	2305176-10 051723-12 1 0241	22-Jun-23	19:58:01
11	230622R2_11	2305176-11 051723-13 1 03256	22-Jun-23	20:43:09
12	230622R2_12	(A)		
13	230622R3_2	ST230622R3_1 1613 CS3 23E1003	23-Jun-23	07:48:56

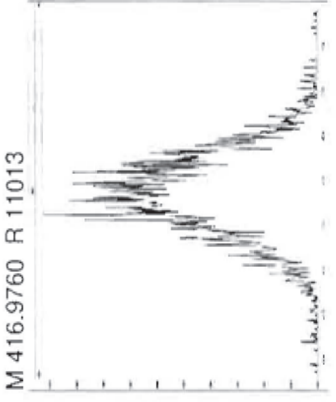
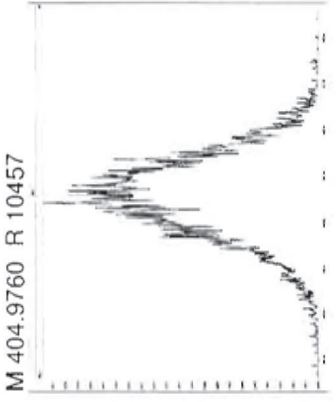
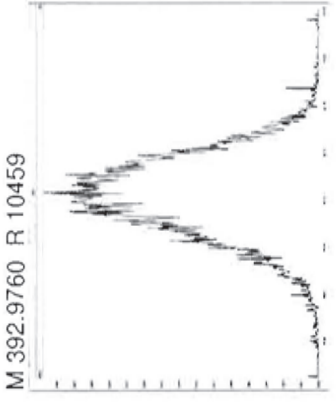
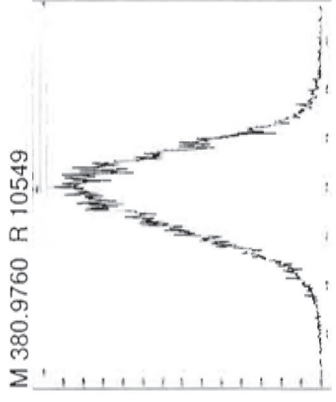
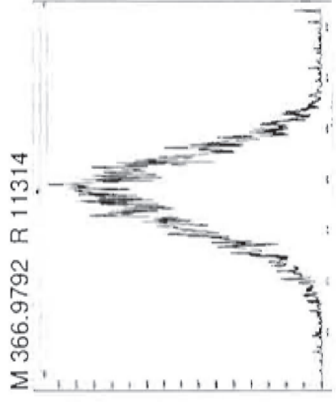
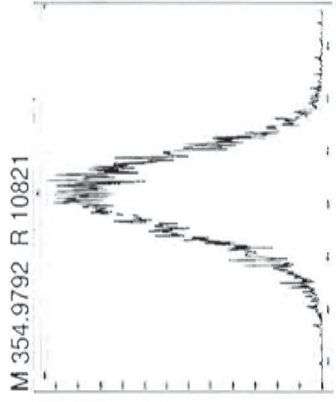
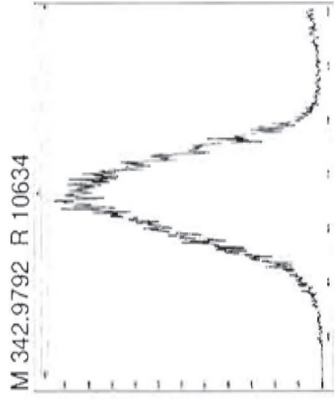
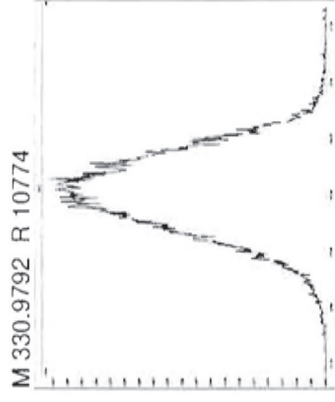
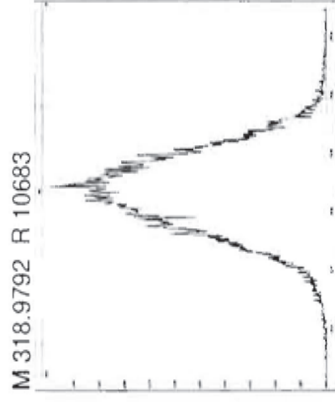
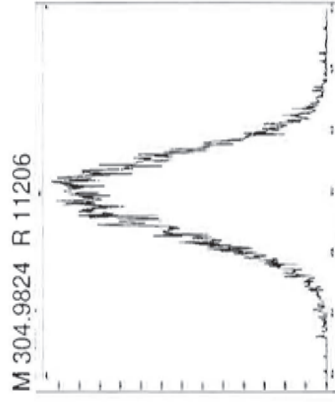
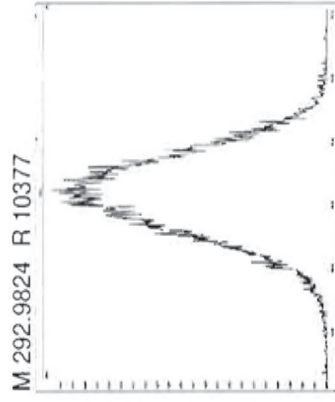
(A) Paused, RI ATM 06/23/23

Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, June 22, 2023 13:05:31 Pacific Daylight Time



Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, June 22, 2023 13:06:58 Pacific Daylight Time

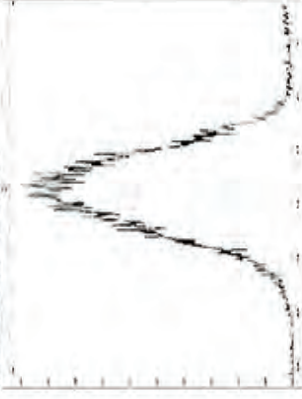
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M 330.9792 R 10503



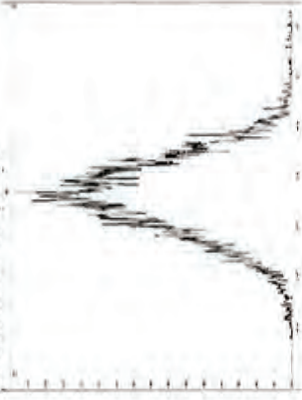
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M 354.9792 R 11416



M 366.9792 R 11735



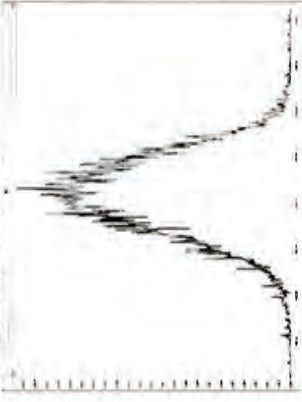
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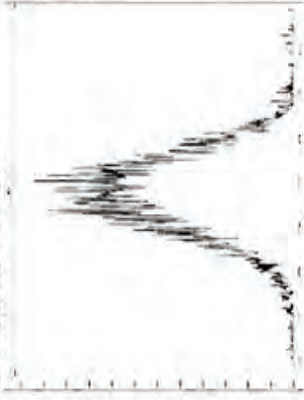
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M 416.9760 R 11014



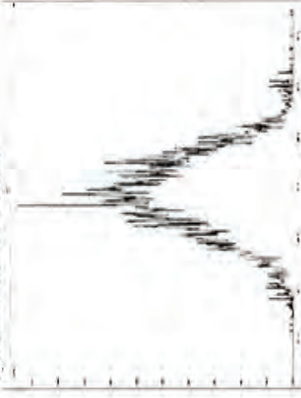
Experiment Calibration Report

MassLynx 4.1 SCN815

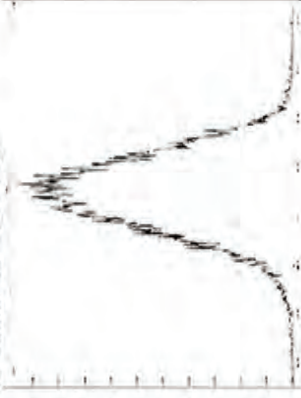
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Printed: Thursday, June 22, 2023 13:07:53 Pacific Daylight Time

M 366.9792 R 11574



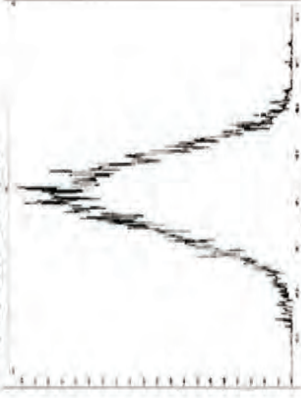
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M 392.9760 R 11789



M 404.9760 R 11682



M 416.9760 R 12313



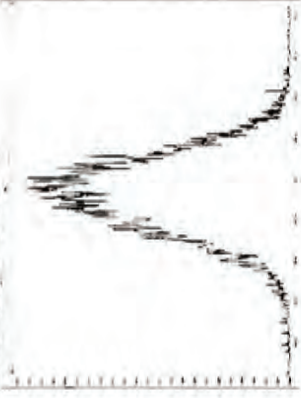
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M 442.9728 R 11363



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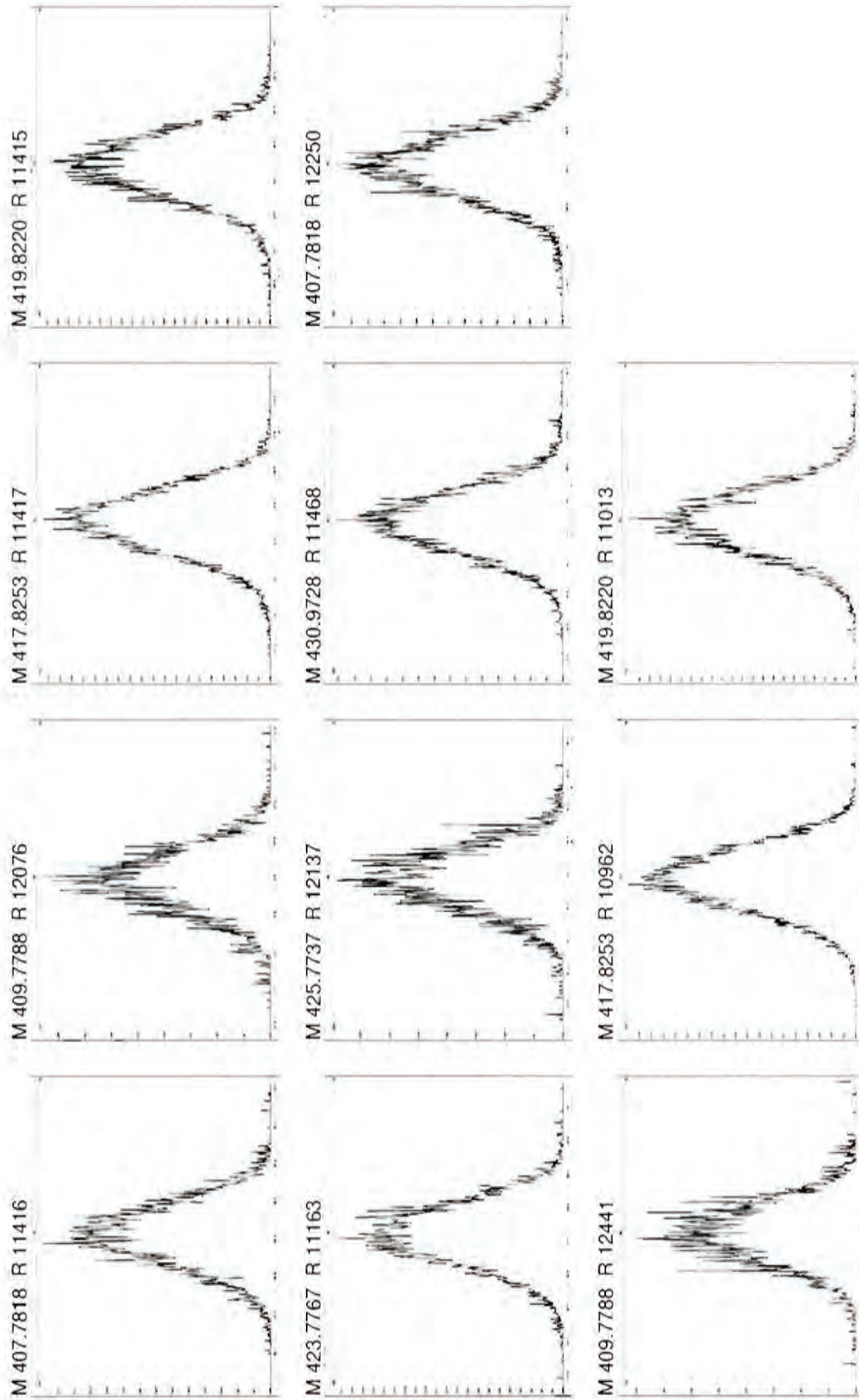
Experiment Calibration Report

MassLynx 4.1 SCN815

Page 1 of 1

File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, June 22, 2023 13:08:44 Pacific Daylight Time



Experiment Calibration Report

MassLynx 4.1 SCN815

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File: Experiment: OCDD_DIOXIN.exp Reference: P:k.ref Function: 5 @ 200 (ppm)

Printed: Thursday, June 22, 2023 13:09:37 Pacific Daylight Time

