



July 17, 2020

Vista Work Order No. 2001035

Ms. Delaney Peterson
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on May 12, 2020 under your Project Name 'Gasco PDI'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2001035

Case Narrative

Sample Condition on Receipt:

Thirteen sediment samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 1613B

These samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613B using a ZB-5MS GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with each preparation batch. No analytes were detected above 1/2 the quantitation limits in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

As requested, a duplicate was performed on sample "PDI-050SC-A-03-04-200508". The RPDs were out of the acceptance criteria for 1,2,3,4,6,7,8-HpCDD and OCDD.

The labeled standard recoveries outside the method acceptance criteria are listed in the table below:

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2001035-01	PDI-050SC-A-00-01-200508	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDD	H	31.3
2001035-01	PDI-050SC-A-00-01-200508	EPA Method 1613B	13C-2,3,4,6,7,8-HxCDF	H	27.3
2001035-01	PDI-050SC-A-00-01-200508	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDF	H	27.7
2001035-01	PDI-050SC-A-00-01-200508	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDF	H	24.7
2001035-01	PDI-050SC-A-00-01-200508	EPA Method 1613B	13C-1,2,3,4,7,8,9-HpCDF	H	24.5
2001035-08	PDI-050SC-B-00-02-200508	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDD	H	27.6
2001035-08	PDI-050SC-B-00-02-200508	EPA Method 1613B	13C-2,3,4,6,7,8-HxCDF	H	27.2
2001035-08	PDI-050SC-B-00-02-200508	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDF	H	26.1
2001035-08	PDI-050SC-B-00-02-200508	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDF	H	24.2
2001035-08	PDI-050SC-B-00-02-200508	EPA Method 1613B	13C-1,2,3,4,7,8,9-HpCDF	H	18.9
2001035-08	PDI-050SC-B-00-02-200508	EPA Method 1613B	13C-OCDF	H	14.1

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2001035-01	PDI-050SC-A-00-01-200508	08-May-20 09:15	12-May-20 09:50	Amber Glass, 120 mL
2001035-02	PDI-050SC-A-01-02-200508	08-May-20 09:15	12-May-20 09:50	Amber Glass, 120 mL
2001035-03	PDI-050SC-A-02-03-200508	08-May-20 09:15	12-May-20 09:50	Amber Glass, 120 mL
2001035-04	PDI-050SC-A-03-04-200508	08-May-20 09:15	12-May-20 09:50	Amber Glass, 120 mL
2001035-05	PDI-050SC-A-04-05-200508	08-May-20 09:15	12-May-20 09:50	Amber Glass, 120 mL
2001035-06	PDI-050SC-A-05-06-200508	08-May-20 09:15	12-May-20 09:50	Amber Glass, 120 mL
2001035-07	PDI-050SC-A-06-07-200508	08-May-20 09:15	12-May-20 09:50	Amber Glass, 120 mL
2001035-08	PDI-050SC-B-00-02-200508	08-May-20 08:50	12-May-20 09:50	Amber Glass, 120 mL
2001035-09	PDI-050SC-B-02-05-200508	08-May-20 08:50	12-May-20 09:50	Amber Glass, 120 mL
2001035-10	PDI-050SC-B-05-07-200508	08-May-20 08:50	12-May-20 09:50	Amber Glass, 120 mL
2001035-11	PDI-093SC-B-00-02-200508	08-May-20 10:20	12-May-20 09:50	Amber Glass, 120 mL
2001035-12	PDI-093SC-B-02-05-200508	08-May-20 10:20	12-May-20 09:50	Amber Glass, 120 mL
2001035-13	PDI-093SC-B-05-6.6-200508	08-May-20 10:20	12-May-20 09:50	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0145 Date Extracted: 19-May-2020 6:06		Lab Sample: B0E0145-BLK1 Date Analyzed: 23-Jun-20 17:24 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0796			IS 13C-2,3,7,8-TCDD	70.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0903			13C-1,2,3,7,8-PeCDD	66.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.115			13C-1,2,3,4,7,8-HxCDD	73.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.114			13C-1,2,3,6,7,8-HxCDD	73.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.131			13C-1,2,3,7,8,9-HxCDD	74.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.241			13C-1,2,3,4,6,7,8-HpCDD	61.6	23 - 140	
OCDD	1.18			J	13C-OCDD	48.7	17 - 157	
2,3,7,8-TCDF	ND	0.0519			13C-2,3,7,8-TCDF	59.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0524			13C-1,2,3,7,8-PeCDF	69.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0520			13C-2,3,4,7,8-PeCDF	68.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0754			13C-1,2,3,4,7,8-HxCDF	78.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0650			13C-1,2,3,6,7,8-HxCDF	82.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0762			13C-2,3,4,6,7,8-HxCDF	75.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.131			13C-1,2,3,7,8,9-HxCDF	71.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.126			13C-1,2,3,4,6,7,8-HpCDF	64.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.154			13C-1,2,3,4,7,8,9-HpCDF	60.1	26 - 138	
OCDF	ND	0.193			13C-OCDF	49.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	74.9	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000354			
TOTALS								
Total TCDD	ND	0.0796						
Total PeCDD	ND	0.0903						
Total HxCDD	ND	0.131						
Total HpCDD	ND	0.241						
Total TCDF	ND	0.0519						
Total PeCDF	ND	0.0524						
Total HxCDF	ND	0.131						
Total HpCDF	ND	0.154						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.

Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0E0145	Lab Sample: B0E0145-BS1		Date Analyzed: 23-Jun-20 15:51 Column: ZB-5MS			
Sample Size: 10.0 g	Date Extracted: 19-May-2020 6:06						
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	18.0	20.0	90.1	67 - 158	IS 13C-2,3,7,8-TCDD	79.2	20 - 175
1,2,3,7,8-PeCDD	90.3	100	90.3	70 - 142	13C-1,2,3,7,8-PeCDD	77.2	21 - 227
1,2,3,4,7,8-HxCDD	86.1	100	86.1	70 - 164	13C-1,2,3,4,7,8-HxCDD	83.4	21 - 193
1,2,3,6,7,8-HxCDD	101	100	101	76 - 134	13C-1,2,3,6,7,8-HxCDD	81.6	25 - 163
1,2,3,7,8,9-HxCDD	94.9	100	94.9	64 - 162	13C-1,2,3,7,8,9-HxCDD	84.5	21 - 193
1,2,3,4,6,7,8-HpCDD	95.9	100	95.9	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	75.2	26 - 166
OCDD	190	200	95.0	78 - 144	13C-OCDD	62.1	13 - 199
2,3,7,8-TCDF	19.2	20.0	95.9	75 - 158	13C-2,3,7,8-TCDF	65.6	22 - 152
1,2,3,7,8-PeCDF	93.0	100	93.0	80 - 134	13C-1,2,3,7,8-PeCDF	79.2	21 - 192
2,3,4,7,8-PeCDF	90.8	100	90.8	68 - 160	13C-2,3,4,7,8-PeCDF	76.5	13 - 328
1,2,3,4,7,8-HxCDF	96.5	100	96.5	72 - 134	13C-1,2,3,4,7,8-HxCDF	85.5	19 - 202
1,2,3,6,7,8-HxCDF	97.9	100	97.9	84 - 130	13C-1,2,3,6,7,8-HxCDF	87.3	21 - 159
2,3,4,6,7,8-HxCDF	96.9	100	96.9	70 - 156	13C-2,3,4,6,7,8-HxCDF	84.0	22 - 176
1,2,3,7,8,9-HxCDF	95.1	100	95.1	78 - 130	13C-1,2,3,7,8,9-HxCDF	83.3	17 - 205
1,2,3,4,6,7,8-HpCDF	101	100	101	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	79.2	21 - 158
1,2,3,4,7,8,9-HpCDF	102	100	102	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	72.1	20 - 186
OCDF	192	200	95.8	63 - 170	13C-OCDF	65.4	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	86.0	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0F0280 Date Extracted: 27-Jun-2020 17:05		Lab Sample: B0F0280-BLK1 Date Analyzed: 07-Jul-20 16:50 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0451			IS 13C-2,3,7,8-TCDD	77.7	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0659			13C-1,2,3,7,8-PeCDD	79.0	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0657			13C-1,2,3,4,7,8-HxCDD	76.0	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0721			13C-1,2,3,6,7,8-HxCDD	75.1	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0847			13C-1,2,3,7,8,9-HxCDD	73.5	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.0796			13C-1,2,3,4,6,7,8-HpCDD	78.1	23 - 140		
OCDD	0.199			J	13C-OCDD	69.6	17 - 157		
2,3,7,8-TCDF	ND	0.0259			13C-2,3,7,8-TCDF	76.2	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0319			13C-1,2,3,7,8-PeCDF	80.0	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0298			13C-2,3,4,7,8-PeCDF	78.7	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0360			13C-1,2,3,4,7,8-HxCDF	69.8	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0358			13C-1,2,3,6,7,8-HxCDF	66.4	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0403			13C-2,3,4,6,7,8-HxCDF	68.8	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0598			13C-1,2,3,7,8,9-HxCDF	70.1	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0620			13C-1,2,3,4,6,7,8-HpCDF	62.6	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0649			13C-1,2,3,4,7,8,9-HpCDF	70.1	26 - 138		
OCDF	ND	0.103			13C-OCDF	62.2	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	92.3	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.000060		
TOTALS									
Total TCDD	ND	0.0451							
Total PeCDD	ND	0.0659							
Total HxCDD	ND	0.0847							
Total HpCDD	ND	0.0796							
Total TCDF	ND	0.0259							
Total PeCDF	ND	0.0319							
Total HxCDF	ND	0.0598							
Total HpCDF	ND	0.0649							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.

Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0F0280	Lab Sample: B0F0280-BS1					
Sample Size: 10.0 g	Date Extracted: 27-Jun-2020 17:05	Date Analyzed: 09-Jul-20 08:38	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.4	20.0	102	67 - 158	IS 13C-2,3,7,8-TCDD	79.6	20 - 175
1,2,3,7,8-PeCDD	97.7	100	97.7	70 - 142	13C-1,2,3,7,8-PeCDD	75.2	21 - 227
1,2,3,4,7,8-HxCDD	101	100	101	70 - 164	13C-1,2,3,4,7,8-HxCDD	72.8	21 - 193
1,2,3,6,7,8-HxCDD	104	100	104	76 - 134	13C-1,2,3,6,7,8-HxCDD	77.1	25 - 163
1,2,3,7,8,9-HxCDD	107	100	107	64 - 162	13C-1,2,3,7,8,9-HxCDD	73.7	21 - 193
1,2,3,4,6,7,8-HpCDD	98.2	100	98.2	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	78.2	26 - 166
OCDD	186	200	93.0	78 - 144	13C-OCDD	67.4	13 - 199
2,3,7,8-TCDF	20.9	20.0	104	75 - 158	13C-2,3,7,8-TCDF	76.4	22 - 152
1,2,3,7,8-PeCDF	108	100	108	80 - 134	13C-1,2,3,7,8-PeCDF	74.2	21 - 192
2,3,4,7,8-PeCDF	112	100	112	68 - 160	13C-2,3,4,7,8-PeCDF	74.1	13 - 328
1,2,3,4,7,8-HxCDF	105	100	105	72 - 134	13C-1,2,3,4,7,8-HxCDF	69.4	19 - 202
1,2,3,6,7,8-HxCDF	114	100	114	84 - 130	13C-1,2,3,6,7,8-HxCDF	67.8	21 - 159
2,3,4,6,7,8-HxCDF	102	100	102	70 - 156	13C-2,3,4,6,7,8-HxCDF	69.8	22 - 176
1,2,3,7,8,9-HxCDF	106	100	106	78 - 130	13C-1,2,3,7,8,9-HxCDF	75.1	17 - 205
1,2,3,4,6,7,8-HpCDF	111	100	111	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	71.5	21 - 158
1,2,3,4,7,8,9-HpCDF	106	100	106	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	73.6	20 - 186
OCDF	207	200	103	63 - 170	13C-OCDF	64.2	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	89.4	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-050SC-A-00-01-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-01 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 14.4 g	QC Batch: B0F0280 Date Extracted: 27-Jun-2020 17:05
Date Collected: 08-May-2020 9:15	% Solids: 70.1	Date Analyzed : 07-Jul-20 23:38 Column: ZB-5MS 09-Jul-20 19:48 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.613		IS 13C-2,3,7,8-TCDD	47.4	25 - 164	
1,2,3,7,8-PeCDD	1.47			J	13C-1,2,3,7,8-PeCDD	41.0	25 - 181	
1,2,3,4,7,8-HxCDD	1.29			J	13C-1,2,3,4,7,8-HxCDD	36.2	32 - 141	
1,2,3,6,7,8-HxCDD	10.2				13C-1,2,3,6,7,8-HxCDD	33.9	28 - 130	
1,2,3,7,8,9-HxCDD	4.11				13C-1,2,3,7,8,9-HxCDD	31.3	32 - 141	H
1,2,3,4,6,7,8-HpCDD	476				13C-1,2,3,4,6,7,8-HpCDD	32.9	23 - 140	
OCDD	3140			B	13C-OCDD	23.2	17 - 157	
2,3,7,8-TCDF	17.8				13C-2,3,7,8-TCDF	44.7	24 - 169	
1,2,3,7,8-PeCDF	15.1				13C-1,2,3,7,8-PeCDF	42.1	24 - 185	
2,3,4,7,8-PeCDF	10.3				13C-2,3,4,7,8-PeCDF	38.7	21 - 178	
1,2,3,4,7,8-HxCDF	24.3				13C-1,2,3,4,7,8-HxCDF	31.7	26 - 152	
1,2,3,6,7,8-HxCDF	6.60				13C-1,2,3,6,7,8-HxCDF	30.6	26 - 123	
2,3,4,6,7,8-HxCDF	3.86				13C-2,3,4,6,7,8-HxCDF	27.3	28 - 136	H
1,2,3,7,8,9-HxCDF	2.74				13C-1,2,3,7,8,9-HxCDF	27.7	29 - 147	H
1,2,3,4,6,7,8-HpCDF	32.8				13C-1,2,3,4,6,7,8-HpCDF	24.7	28 - 143	H
1,2,3,4,7,8,9-HpCDF	4.51				13C-1,2,3,4,7,8,9-HpCDF	24.5	26 - 138	H
OCDF	100				13C-OCDF	18.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	51.7	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin	18.2
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TOTALS		
Total TCDD	13.0	14.1
Total PeCDD	20.5	
Total HxCDD	151	
Total HpCDD	1120	
Total TCDF	114	
Total PeCDF	105	112
Total HxCDF	88.5	
Total HpCDF	131	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-050SC-A-01-02-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-02 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 14.5 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 9:15	% Solids: 69.1	Date Analyzed : 23-Jun-20 18:56 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0895			IS 13C-2,3,7,8-TCDD	103	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0998			13C-1,2,3,7,8-PeCDD	123	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.151			13C-1,2,3,4,7,8-HxCDD	89.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.127		13C-1,2,3,6,7,8-HxCDD	85.3	28 - 130	
1,2,3,7,8,9-HxCDD	0.140			J	13C-1,2,3,7,8,9-HxCDD	87.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	4.53				13C-1,2,3,4,6,7,8-HpCDD	74.8	23 - 140	
OCDD	35.3			B	13C-OCDD	55.2	17 - 157	
2,3,7,8-TCDF	0.0828			J	13C-2,3,7,8-TCDF	97.3	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0587		13C-1,2,3,7,8-PeCDF	126	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0296		13C-2,3,4,7,8-PeCDF	125	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.106		13C-1,2,3,4,7,8-HxCDF	92.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0584			13C-1,2,3,6,7,8-HxCDF	90.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0637			13C-2,3,4,6,7,8-HxCDF	92.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.101			13C-1,2,3,7,8,9-HxCDF	88.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.758			J	13C-1,2,3,4,6,7,8-HpCDF	79.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.122			13C-1,2,3,4,7,8,9-HpCDF	70.0	26 - 138	
OCDF	1.03			J	13C-OCDF	54.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	108	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 0.0861

TOTALS	
Total TCDD	0.258
Total PeCDD	0.0451 0.406
Total HxCDD	2.76 2.89
Total HpCDD	11.6
Total TCDF	0.0828 0.408
Total PeCDF	0.405 0.618
Total HxCDF	0.276 0.604
Total HpCDF	1.62

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-050SC-A-02-03-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-03 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 15.6 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 9:15	% Solids: 64.7	Date Analyzed : 23-Jun-20 19:42 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0767			IS 13C-2,3,7,8-TCDD	103	25 - 164	
1,2,3,7,8-PeCDD	ND	0.107			13C-1,2,3,7,8-PeCDD	94.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.123			13C-1,2,3,4,7,8-HxCDD	88.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.0919		13C-1,2,3,6,7,8-HxCDD	84.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.190		13C-1,2,3,7,8,9-HxCDD	86.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.48			J	13C-1,2,3,4,6,7,8-HpCDD	75.3	23 - 140	
OCDD	12.2			B	13C-OCDD	57.5	17 - 157	
2,3,7,8-TCDF	ND	0.0638			13C-2,3,7,8-TCDF	119	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0394			13C-1,2,3,7,8-PeCDF	125	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0373			13C-2,3,4,7,8-PeCDF	123	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0624			13C-1,2,3,4,7,8-HxCDF	95.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0595			13C-1,2,3,6,7,8-HxCDF	96.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0673			13C-2,3,4,6,7,8-HxCDF	91.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0621		13C-1,2,3,7,8,9-HxCDF	88.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.139			13C-1,2,3,4,6,7,8-HpCDF	78.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.165			13C-1,2,3,4,7,8,9-HpCDF	71.6	26 - 138	
OCDF	ND	0.171			13C-OCDF	55.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0185

TOTALS								
Total TCDD	0.281							
Total PeCDD	0.207		0.309					
Total HxCDD	1.67		1.95					
Total HpCDD	3.90							
Total TCDF	0.237							
Total PeCDF	ND	0.0394						
Total HxCDF	ND		0.0621					
Total HpCDF	ND	0.165						

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-050SC-A-03-04-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-04 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 15.7 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 9:15	% Solids: 65.2	Date Analyzed: 23-Jun-20 20:28 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0707			IS 13C-2,3,7,8-TCDD	102	25 - 164	
1,2,3,7,8-PeCDD	ND	0.118			13C-1,2,3,7,8-PeCDD	94.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.169			13C-1,2,3,4,7,8-HxCDD	94.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.170			13C-1,2,3,6,7,8-HxCDD	91.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.196			13C-1,2,3,7,8,9-HxCDD	93.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.48			J	13C-1,2,3,4,6,7,8-HpCDD	82.3	23 - 140	
OCDD	12.4			B	13C-OCDD	64.8	17 - 157	
2,3,7,8-TCDF	ND	0.0479			13C-2,3,7,8-TCDF	120	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0521			13C-1,2,3,7,8-PeCDF	127	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0492			13C-2,3,4,7,8-PeCDF	123	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0854			13C-1,2,3,4,7,8-HxCDF	98.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0794			13C-1,2,3,6,7,8-HxCDF	98.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0933			13C-2,3,4,6,7,8-HxCDF	94.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.150			13C-1,2,3,7,8,9-HxCDF	91.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.140			13C-1,2,3,4,6,7,8-HpCDF	85.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.165			13C-1,2,3,4,7,8,9-HpCDF	78.9	26 - 138	
OCDF	ND	0.146			13C-OCDF	65.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	106	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0185

TOTALS				
Total TCDD	0.261			
Total PeCDD	ND		0.155	
Total HxCDD	1.47			
Total HpCDD	3.81			
Total TCDF	0.242		0.254	
Total PeCDF	ND	0.0521		
Total HxCDF	ND	0.150		
Total HpCDF	ND	0.165		

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-050SC-A-03-04-200508		QC Batch: B0E0145		Lab Sample: B0E0145-DUP1					
Source LabNumber: 2001035-04		Date Extracted: 19-May-2020 6:06		Date Analyzed: 23-Jun-20 21:15 Column: ZB-5MS					
Matrix: Solid									
Sample Size: 15.6 g									
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0649			IS 13C-2,3,7,8-TCDD	107	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0843			13C-1,2,3,7,8-PeCDD	96.1	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.124			13C-1,2,3,4,7,8-HxCDD	89.5	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.122			13C-1,2,3,6,7,8-HxCDD	90.7	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.132			13C-1,2,3,7,8,9-HxCDD	90.5	32 - 141		
1,2,3,4,6,7,8-HpCDD	0.743			J	13C-1,2,3,4,6,7,8-HpCDD	75.0	23 - 140		
OCDD	5.45			B	13C-OCDD	60.5	17 - 157		
2,3,7,8-TCDF	ND	0.0371			13C-2,3,7,8-TCDF	119	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0369			13C-1,2,3,7,8-PeCDF	122	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0338			13C-2,3,4,7,8-PeCDF	121	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0590			13C-1,2,3,4,7,8-HxCDF	90.3	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0491			13C-1,2,3,6,7,8-HxCDF	92.1	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0579			13C-2,3,4,6,7,8-HxCDF	89.2	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0888			13C-1,2,3,7,8,9-HxCDF	90.1	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.134			13C-1,2,3,4,6,7,8-HpCDF	86.3	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.171			13C-1,2,3,4,7,8,9-HpCDF	73.5	26 - 138		
OCDF	ND	0.217			13C-OCDF	63.2	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	104	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00907		
TOTALS									
Total TCDD	0.233		0.312						
Total PeCDD	ND		0.244						
Total HxCDD	0.686		0.909						
Total HpCDD	0.743		1.73						
Total TCDF	0.236		0.259						
Total PeCDF	ND	0.0369							
Total HxCDF	ND	0.0888							
Total HpCDF	ND	0.171							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-050SC-A-03-04-200508					Duplicate Lab Sample: B0E0145-DUP1				
Source LabNumber: 2001035-04									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	25	IS 13C-2,3,7,8-TCDD	107	102	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	96.1	94.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	89.5	94.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDD	90.7	91.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDD	90.5	93.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.743	1.48	66.4	25	13C-1,2,3,4,6,7,8-HpCDD	75.0	82.3	23 - 140	
OCDD	5.45	12.4	78.1	25	13C-OCDD	60.5	64.8	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	119	120	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	25	13C-1,2,3,7,8-PeCDF	122	127	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	121	123	21 - 178	
1,2,3,4,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDF	90.3	98.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDF	92.1	98.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	25	13C-2,3,4,6,7,8-HxCDF	89.2	94.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDF	90.1	91.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	ND	NA	25	13C-1,2,3,4,6,7,8-HpCDF	86.3	85.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25	13C-1,2,3,4,7,8,9-HpCDF	73.5	78.9	26 - 138	
OCDF	ND	ND	NA	25	13C-OCDF	63.2	65.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	104	106	35 - 197	

LCL-UCL - Lower control limit - upper control limit
The results are reported in dry weight.
The sample size is reported in wet weight. Results reported to the MDL

Sample ID: PDI-050SC-A-04-05-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-05 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 15.8 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 9:15	% Solids: 63.9	Date Analyzed : 23-Jun-20 22:01 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0682			IS 13C-2,3,7,8-TCDD	105	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0632			13C-1,2,3,7,8-PeCDD	119	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.115			13C-1,2,3,4,7,8-HxCDD	84.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.122			13C-1,2,3,6,7,8-HxCDD	84.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.136			13C-1,2,3,7,8,9-HxCDD	84.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.174			13C-1,2,3,4,6,7,8-HpCDD	72.6	23 - 140	
OCDD	1.76			J, B	13C-OCDD	55.8	17 - 157	
2,3,7,8-TCDF	ND	0.0463			13C-2,3,7,8-TCDF	89.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0366			13C-1,2,3,7,8-PeCDF	125	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0366			13C-2,3,4,7,8-PeCDF	122	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0442			13C-1,2,3,4,7,8-HxCDF	89.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0377			13C-1,2,3,6,7,8-HxCDF	90.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0437			13C-2,3,4,6,7,8-HxCDF	88.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0452		13C-1,2,3,7,8,9-HxCDF	87.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0774			13C-1,2,3,4,6,7,8-HpCDF	78.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0969			13C-1,2,3,4,7,8,9-HpCDF	69.1	26 - 138	
OCDF	ND	0.129			13C-OCDF	56.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	119	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 0.000528

TOTALS								
Total TCDD	ND	0.0682						
Total PeCDD	ND	0.0632						
Total HxCDD	0.126							
Total HpCDD	0.301							
Total TCDF	ND	0.0463						
Total PeCDF	ND	0.0366						
Total HxCDF	ND		0.0452					
Total HpCDF	ND	0.0969						

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-050SC-A-05-06-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-06 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 15.9 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 9:15	% Solids: 63.3	Date Analyzed: 23-Jun-20 22:47 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0599			IS 13C-2,3,7,8-TCDD	112	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0851			13C-1,2,3,7,8-PeCDD	125	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0824			13C-1,2,3,4,7,8-HxCDD	93.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0784			13C-1,2,3,6,7,8-HxCDD	89.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0983			13C-1,2,3,7,8,9-HxCDD	90.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.479			J	13C-1,2,3,4,6,7,8-HpCDD	75.7	23 - 140	
OCDD	4.13			J, B	13C-OCDD	59.9	17 - 157	
2,3,7,8-TCDF	ND	0.0430			13C-2,3,7,8-TCDF	95.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0255			13C-1,2,3,7,8-PeCDF	130	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0244			13C-2,3,4,7,8-PeCDF	128	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0386			13C-1,2,3,4,7,8-HxCDF	94.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0370			13C-1,2,3,6,7,8-HxCDF	93.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0386			13C-2,3,4,6,7,8-HxCDF	94.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0610			13C-1,2,3,7,8,9-HxCDF	89.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0692			13C-1,2,3,4,6,7,8-HpCDF	84.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0912			13C-1,2,3,4,7,8,9-HpCDF	70.5	26 - 138	
OCDF	ND	0.109			13C-OCDF	59.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	121	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00603

TOTALS			
Total TCDD	ND		0.0946
Total PeCDD	ND		0.0195
Total HxCDD	0.404		
Total HpCDD	0.479		1.13
Total TCDF	0.0894		
Total PeCDF	ND	0.0255	
Total HxCDF	ND	0.0610	
Total HpCDF	ND	0.0912	

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-050SC-A-06-07-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-07 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 16.0 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 9:15	% Solids: 62.8	Date Analyzed: 23-Jun-20 23:33 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0540			IS 13C-2,3,7,8-TCDD	112	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0882			13C-1,2,3,7,8-PeCDD	102	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0993			13C-1,2,3,4,7,8-HxCDD	94.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.104			13C-1,2,3,6,7,8-HxCDD	93.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.110		13C-1,2,3,7,8,9-HxCDD	93.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.40			J	13C-1,2,3,4,6,7,8-HpCDD	82.2	23 - 140	
OCDD	13.3			B	13C-OCDD	60.2	17 - 157	
2,3,7,8-TCDF	ND	0.0353			13C-2,3,7,8-TCDF	118	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0286			13C-1,2,3,7,8-PeCDF	129	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0266			13C-2,3,4,7,8-PeCDF	124	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0472			13C-1,2,3,4,7,8-HxCDF	96.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0436			13C-1,2,3,6,7,8-HxCDF	97.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0469			13C-2,3,4,6,7,8-HxCDF	99.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0718			13C-1,2,3,7,8,9-HxCDF	97.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.139			13C-1,2,3,4,6,7,8-HpCDF	87.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.182			13C-1,2,3,4,7,8,9-HpCDF	75.3	26 - 138	
OCDF	ND	0.0943			13C-OCDF	66.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	110	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0180

TOTALS				
Total TCDD	0.268			
Total PeCDD	0.116		0.247	
Total HxCDD	1.50		1.61	
Total HpCDD	3.64			
Total TCDF	0.231			
Total PeCDF	ND	0.0286		
Total HxCDF	ND	0.0718		
Total HpCDF	ND	0.182		

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-050SC-B-00-02-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-08 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 15.3 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 8:50	% Solids: 65.5	Date Analyzed : 08-Jul-20 15:57 Column: DB-225 24-Jun-20 00:19 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.382		IS 13C-2,3,7,8-TCDD	56.1	25 - 164	
1,2,3,7,8-PeCDD	ND		0.465		13C-1,2,3,7,8-PeCDD	51.2	25 - 181	
1,2,3,4,7,8-HxCDD	1.03			J	13C-1,2,3,4,7,8-HxCDD	32.5	32 - 141	
1,2,3,6,7,8-HxCDD	7.97				13C-1,2,3,6,7,8-HxCDD	31.2	28 - 130	
1,2,3,7,8,9-HxCDD	3.00				13C-1,2,3,7,8,9-HxCDD	27.6	32 - 141	H
1,2,3,4,6,7,8-HpCDD	625				13C-1,2,3,4,6,7,8-HpCDD	24.2	23 - 140	
OCDD	4430			B	13C-OCDD	17.4	17 - 157	
2,3,7,8-TCDF	7.62				13C-2,3,7,8-TCDF	46.3	24 - 169	
1,2,3,7,8-PeCDF	9.78				13C-1,2,3,7,8-PeCDF	53.7	24 - 185	
2,3,4,7,8-PeCDF	4.36				13C-2,3,4,7,8-PeCDF	49.7	21 - 178	
1,2,3,4,7,8-HxCDF	8.85				13C-1,2,3,4,7,8-HxCDF	32.3	26 - 152	
1,2,3,6,7,8-HxCDF	2.47			J	13C-1,2,3,6,7,8-HxCDF	31.6	26 - 123	
2,3,4,6,7,8-HxCDF	1.49			J	13C-2,3,4,6,7,8-HxCDF	27.2	28 - 136	H
1,2,3,7,8,9-HxCDF	ND		0.373		13C-1,2,3,7,8,9-HxCDF	26.1	29 - 147	H
1,2,3,4,6,7,8-HpCDF	25.4				13C-1,2,3,4,6,7,8-HpCDF	24.2	28 - 143	H
1,2,3,4,7,8,9-HpCDF	ND	1.02			13C-1,2,3,4,7,8,9-HpCDF	18.9	26 - 138	H
OCDF	124				13C-OCDF	14.1	17 - 157	H
					CRS 37Cl-2,3,7,8-TCDD	61.0	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin	12.7
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TOTALS		
Total TCDD	2.00	4.48
Total PeCDD	6.89	8.86
Total HxCDD	136	
Total HpCDD	1570	
Total TCDF	36.2	41.1
Total PeCDF	44.3	44.9
Total HxCDF	44.9	45.7
Total HpCDF	134	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-050SC-B-02-05-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-09 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 15.8 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 8:50	% Solids: 64.1	Date Analyzed: 24-Jun-20 01:06 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0821			IS 13C-2,3,7,8-TCDD	96.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.112			13C-1,2,3,7,8-PeCDD	124	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.115			13C-1,2,3,4,7,8-HxCDD	84.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.115			13C-1,2,3,6,7,8-HxCDD	85.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.129			13C-1,2,3,7,8,9-HxCDD	85.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.76			J	13C-1,2,3,4,6,7,8-HpCDD	70.0	23 - 140	
OCDD	15.0			B	13C-OCDD	54.6	17 - 157	
2,3,7,8-TCDF	ND	0.0468			13C-2,3,7,8-TCDF	86.5	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0334			13C-1,2,3,7,8-PeCDF	124	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0303			13C-2,3,4,7,8-PeCDF	124	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0398			13C-1,2,3,4,7,8-HxCDF	87.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0359			13C-1,2,3,6,7,8-HxCDF	90.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0386			13C-2,3,4,6,7,8-HxCDF	88.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0619			13C-1,2,3,7,8,9-HxCDF	85.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0643			13C-1,2,3,4,6,7,8-HpCDF	77.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0782			13C-1,2,3,4,7,8,9-HpCDF	68.5	26 - 138	
OCDF	ND	0.127			13C-OCDF	57.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.3	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 0.0221

TOTALS			
Total TCDD	0.305		
Total PeCDD	0.244		0.464
Total HxCDD	1.21		1.67
Total HpCDD	4.75		
Total TCDF	0.288		0.323
Total PeCDF	ND	0.0334	
Total HxCDF	ND	0.0619	
Total HpCDF	ND	0.0782	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-050SC-B-05-07-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-10 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 15.7 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 8:50	% Solids: 64.1	Date Analyzed: 24-Jun-20 01:52 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0681			IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0869			13C-1,2,3,7,8-PeCDD	123	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.107			13C-1,2,3,4,7,8-HxCDD	89.2	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.104			13C-1,2,3,6,7,8-HxCDD	85.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.129			13C-1,2,3,7,8,9-HxCDD	86.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.32			J	13C-1,2,3,4,6,7,8-HpCDD	73.3	23 - 140	
OCDD	10.9			B	13C-OCDD	55.8	17 - 157	
2,3,7,8-TCDF	ND	0.0396			13C-2,3,7,8-TCDF	92.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0260			13C-1,2,3,7,8-PeCDF	128	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0242			13C-2,3,4,7,8-PeCDF	129	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0380			13C-1,2,3,4,7,8-HxCDF	92.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0332			13C-1,2,3,6,7,8-HxCDF	94.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0386			13C-2,3,4,6,7,8-HxCDF	90.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0626			13C-1,2,3,7,8,9-HxCDF	84.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0622			13C-1,2,3,4,6,7,8-HpCDF	83.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0811			13C-1,2,3,4,7,8,9-HpCDF	68.8	26 - 138	
OCDF	ND	0.118			13C-OCDF	58.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	100	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0165

TOTALS			
Total TCDD	0.271		0.301
Total PeCDD	0.172		0.268
Total HxCDD	0.970		
Total HpCDD	3.43		
Total TCDF	0.247		
Total PeCDF	ND	0.0260	
Total HxCDF	ND	0.0626	
Total HpCDF	ND	0.0811	

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-093SC-B-00-02-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-11 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 15.5 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 10:20	% Solids: 64.5	Date Analyzed : 08-Jul-20 16:29 Column: DB-225 24-Jun-20 02:38 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.887				IS 13C-2,3,7,8-TCDD	99.0	25 - 164	
1,2,3,7,8-PeCDD	1.50			J	13C-1,2,3,7,8-PeCDD	132	25 - 181	
1,2,3,4,7,8-HxCDD	1.61			J	13C-1,2,3,4,7,8-HxCDD	93.0	32 - 141	
1,2,3,6,7,8-HxCDD	8.63				13C-1,2,3,6,7,8-HxCDD	92.5	28 - 130	
1,2,3,7,8,9-HxCDD	3.92				13C-1,2,3,7,8,9-HxCDD	90.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	194				13C-1,2,3,4,6,7,8-HpCDD	92.5	23 - 140	
OCDD	2150			B	13C-OCDD	79.0	17 - 157	
2,3,7,8-TCDF	238				13C-2,3,7,8-TCDF	92.9	24 - 169	
1,2,3,7,8-PeCDF	344				13C-1,2,3,7,8-PeCDF	138	24 - 185	
2,3,4,7,8-PeCDF	190				13C-2,3,4,7,8-PeCDF	138	21 - 178	
1,2,3,4,7,8-HxCDF	452				13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	134				13C-1,2,3,6,7,8-HxCDF	98.7	26 - 123	
2,3,4,6,7,8-HxCDF	29.6				13C-2,3,4,6,7,8-HxCDF	92.6	28 - 136	
1,2,3,7,8,9-HxCDF	22.9				13C-1,2,3,7,8,9-HxCDF	93.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	148				13C-1,2,3,4,6,7,8-HpCDF	83.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	71.9				13C-1,2,3,4,7,8,9-HpCDF	84.3	26 - 138	
OCDF	311				13C-OCDF	74.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 164

TOTALS		
Total TCDD	10.2	11.5
Total PeCDD	11.5	15.2
Total HxCDD	80.3	82.2
Total HpCDD	458	
Total TCDF	764	801
Total PeCDF	924	
Total HxCDF	835	
Total HpCDF	479	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-093SC-B-02-05-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-12 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 17.7 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 10:20	% Solids: 57.0	Date Analyzed : 08-Jul-20 17:01 Column: DB-225 24-Jun-20 05:52 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.433		IS 13C-2,3,7,8-TCDD	98.1	25 - 164	
1,2,3,7,8-PeCDD	1.23			J	13C-1,2,3,7,8-PeCDD	121	25 - 181	
1,2,3,4,7,8-HxCDD	1.05			J	13C-1,2,3,4,7,8-HxCDD	79.7	32 - 141	
1,2,3,6,7,8-HxCDD	9.60				13C-1,2,3,6,7,8-HxCDD	83.3	28 - 130	
1,2,3,7,8,9-HxCDD	3.21				13C-1,2,3,7,8,9-HxCDD	76.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	475				13C-1,2,3,4,6,7,8-HpCDD	74.5	23 - 140	
OCDD	5020			B	13C-OCDD	69.6	17 - 157	
2,3,7,8-TCDF	93.0				13C-2,3,7,8-TCDF	93.8	24 - 169	
1,2,3,7,8-PeCDF	145				13C-1,2,3,7,8-PeCDF	127	24 - 185	
2,3,4,7,8-PeCDF	89.9				13C-2,3,4,7,8-PeCDF	125	21 - 178	
1,2,3,4,7,8-HxCDF	230				13C-1,2,3,4,7,8-HxCDF	86.5	26 - 152	
1,2,3,6,7,8-HxCDF	74.8				13C-1,2,3,6,7,8-HxCDF	87.7	26 - 123	
2,3,4,6,7,8-HxCDF	20.2				13C-2,3,4,6,7,8-HxCDF	80.5	28 - 136	
1,2,3,7,8,9-HxCDF	8.41				13C-1,2,3,7,8,9-HxCDF	81.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	272				13C-1,2,3,4,6,7,8-HpCDF	71.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	44.6				13C-1,2,3,4,7,8,9-HpCDF	68.8	26 - 138	
OCDF	338				13C-OCDF	62.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 86.1

TOTALS			
Total TCDD	6.86	8.49	
Total PeCDD	16.0	17.7	
Total HxCDD	115		
Total HpCDD	1140		
Total TCDF	327	346	P
Total PeCDF	453	461	P
Total HxCDF	534		
Total HpCDF	636		

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: PDI-093SC-B-05-6.6-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001035-13 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 15.5 g	QC Batch: B0E0145 Date Extracted: 19-May-2020 6:05
Date Collected: 08-May-2020 10:20	% Solids: 65.2	Date Analyzed : 24-Jun-20 07:24 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.117			IS 13C-2,3,7,8-TCDD	89.0	25 - 164	
1,2,3,7,8-PeCDD	ND		0.175		13C-1,2,3,7,8-PeCDD	122	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.115			13C-1,2,3,4,7,8-HxCDD	84.9	32 - 141	
1,2,3,6,7,8-HxCDD	0.884			J	13C-1,2,3,6,7,8-HxCDD	80.3	28 - 130	
1,2,3,7,8,9-HxCDD	0.448			J	13C-1,2,3,7,8,9-HxCDD	80.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	29.2				13C-1,2,3,4,6,7,8-HpCDD	73.1	23 - 140	
OCDD	387			B	13C-OCDD	53.4	17 - 157	
2,3,7,8-TCDF	0.275			J	13C-2,3,7,8-TCDF	80.8	24 - 169	
1,2,3,7,8-PeCDF	ND		0.107		13C-1,2,3,7,8-PeCDF	120	24 - 185	
2,3,4,7,8-PeCDF	0.350			J	13C-2,3,4,7,8-PeCDF	123	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.849		13C-1,2,3,4,7,8-HxCDF	83.9	26 - 152	
1,2,3,6,7,8-HxCDF	0.671			J	13C-1,2,3,6,7,8-HxCDF	86.0	26 - 123	
2,3,4,6,7,8-HxCDF	0.844			J	13C-2,3,4,6,7,8-HxCDF	84.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0655		13C-1,2,3,7,8,9-HxCDF	81.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	19.5				13C-1,2,3,4,6,7,8-HpCDF	73.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.332			J	13C-1,2,3,4,7,8,9-HpCDF	71.4	26 - 138	
OCDF	9.37				13C-OCDF	53.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 1.03

TOTALS		
Total TCDD	0.913	1.04
Total PeCDD	0.328	2.23
Total HxCDD	10.3	
Total HpCDD	69.2	
Total TCDF	7.58	8.15
Total PeCDF	11.7	12.2
Total HxCDF	15.7	16.8
Total HpCDF	36.0	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	19-013-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-23
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Massachusetts Department of Environmental Protection	N/A
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1521520
New Hampshire Environmental Accreditation Program	207718-B
New Jersey Department of Environmental Protection	190001
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-010
Pennsylvania Department of Environmental Protection	016
Texas Commission on Environmental Quality	T104704189-19-10
Vermont Department of Health	VT-4042
Virginia Department of General Services	10272
Washington Department of Ecology	C584-19
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613/1613B
1,4-Dioxane (1,4-Diethyleneoxide) analysis by GC/HRMS	EPA 522
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

POC: # Delaney Peterson (360-715-2707)
 1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

2001035
 1.1°C

COC ID: VISTA-20200508-130248
Sample Custodian: SN
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-050SC-A-00-01-200508	N	SE	05/08/2020	9:15	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
002	PDI-050SC-A-01-02-200508	N	SE	05/08/2020	9:15	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
003	PDI-050SC-A-02-03-200508	N	SE	05/08/2020	9:15	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
004	PDI-050SC-A-03-04-200508	N	SE	05/08/2020	9:15	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
005	PDI-050SC-A-04-05-200508	N	SE	05/08/2020	9:15	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
006	PDI-050SC-A-05-06-200508	N	SE	05/08/2020	9:15	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
007	PDI-050SC-A-06-07-200508	N	SE	05/08/2020	9:15	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
008	PDI-050SC-B-00-02-200508	N	SE	05/08/2020	8:50	1	<input type="checkbox"/>				

Comment:

Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature
Sasha No Wood	William B. Wright				
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Anchor QEA	VAL				
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
5/14/20 0836	5-12-20 09:50				

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

POC: Delaney Peterson (360-715-2707)
 1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

2001035
 1.1°C

COC ID: VISTA-20200508-130248
Sample Custodian: SN
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
008	PDI-050SC-B-00-02-200508	N	SE	05/08/2020	8:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
009	PDI-050SC-B-02-05-200508	N	SE	05/08/2020	8:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
010	PDI-050SC-B-05-07-200508	N	SE	05/08/2020	8:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
011	PDI-093SC-B-00-02-200508	N	SE	05/08/2020	10:20	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
012	PDI-093SC-B-02-05-200508	N	SE	05/08/2020	10:20	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
013	PDI-093SC-B-05-6.6-200508	N	SE	05/08/2020	10:20	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:					
Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
Sasha Norwood	William B. Wright				
Anchor QEA	VAL				
5/12/20 09:36	5.12.20 09:50				

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2001035

 TAT Std

Samples Arrival:	Date/Time: 5/12/20 09:50	Initials: WVW	Location: WR-2
			Shelf/Rack: NA
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
		<input type="checkbox"/> GLS	<input type="checkbox"/> DHL
		<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
	<input type="checkbox"/> None		
Temp °C: 1.1 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: IR-3
Temp °C: 1.1 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>1 of 3</u> Trk # <u>7704 3701 0792</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	Vista	<input checked="" type="checkbox"/> Client	Retain
		<input checked="" type="checkbox"/> Return	Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time: 05/12/20 1251	Initials: KS	Location: WR-2
			Shelf/Rack: G-2
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2001035

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2001035-01	A PDI-050SC-A-00-01-200508	<input checked="" type="checkbox"/>	08-May-20 09:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-02	A PDI-050SC-A-01-02-200508	<input checked="" type="checkbox"/>	08-May-20 09:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-03	A PDI-050SC-A-02-03-200508	<input checked="" type="checkbox"/>	08-May-20 09:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-04	A PDI-050SC-A-03-04-200508	<input checked="" type="checkbox"/>	08-May-20 09:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-05	A PDI-050SC-A-04-05-200508	<input checked="" type="checkbox"/>	08-May-20 09:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-06	A PDI-050SC-A-05-06-200508	<input checked="" type="checkbox"/>	08-May-20 09:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-07	A PDI-050SC-A-06-07-200508	<input checked="" type="checkbox"/>	08-May-20 09:15 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-08	A PDI-050SC-B-00-02-200508	<input checked="" type="checkbox"/>	08-May-20 08:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-09	A PDI-050SC-B-02-05-200508	<input checked="" type="checkbox"/>	08-May-20 08:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-10	A PDI-050SC-B-05-07-200508	<input checked="" type="checkbox"/>	08-May-20 08:50 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-11	A PDI-093SC-B-00-02-200508	<input checked="" type="checkbox"/>	08-May-20 10:20 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-12	A PDI-093SC-B-02-05-200508	<input checked="" type="checkbox"/>	08-May-20 10:20 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2001035-13	A PDI-093SC-B-05-6.6-200508	<input checked="" type="checkbox"/>	08-May-20 10:20 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other		✓	✓
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

Comments:

Verified by/Date: KS 05/13/20

EXTRACTION INFORMATION

Process Sheet
Workorder: 2001035

Prep Expiration: 2021-05-08
 Client: Anchor QEA, LLC

Workorder Due: 10-Jun-20 00:00

TAT: 29

Method: **1613 Full List**
 Matrix: **Solid**
 Client Matrix: **Sediment**
 Also run: **Percent Solids**

Prep Batch: BOE0145

Prep Data Entered: EM 05/08/20
 Date and Initials

Initial Sequence: SOF0068

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2001035-01	<input checked="" type="checkbox"/>	PDI-050SC-A-00-01-200508	12-May-20 09:50	WR-2 G-2	
2001035-02	<input checked="" type="checkbox"/>	PDI-050SC-A-01-02-200508	12-May-20 09:50	WR-2 G-2	
2001035-03	<input checked="" type="checkbox"/>	PDI-050SC-A-02-03-200508	12-May-20 09:50	WR-2 G-2	
2001035-04	<input checked="" type="checkbox"/>	PDI-050SC-A-03-04-200508	12-May-20 09:50	WR-2 G-2	
2001035-05	<input checked="" type="checkbox"/>	PDI-050SC-A-04-05-200508	12-May-20 09:50	WR-2 G-2	
2001035-06	<input checked="" type="checkbox"/>	PDI-050SC-A-05-06-200508	12-May-20 09:50	WR-2 G-2	
2001035-07	<input checked="" type="checkbox"/>	PDI-050SC-A-06-07-200508	12-May-20 09:50	WR-2 G-2	
2001035-08	<input checked="" type="checkbox"/>	PDI-050SC-B-00-02-200508	12-May-20 09:50	WR-2 G-2	
2001035-09	<input checked="" type="checkbox"/>	PDI-050SC-B-02-05-200508	12-May-20 09:50	WR-2 G-2	
2001035-10	<input checked="" type="checkbox"/>	PDI-050SC-B-05-07-200508	12-May-20 09:50	WR-2 G-2	
2001035-11	<input checked="" type="checkbox"/>	PDI-093SC-B-00-02-200508	12-May-20 09:50	WR-2 G-2	
2001035-12	<input checked="" type="checkbox"/>	PDI-093SC-B-02-05-200508	12-May-20 09:50	WR-2 G-2	
2001035-13	<input checked="" type="checkbox"/>	PDI-093SC-B-05-6.6-200508	12-May-20 09:50	WR-2 G-2	

WO Comments: Dioxin - 10g (dry weight)
One dup required per batch of 20 samples

Pre-Prep Check Out: CHT 05/15/20

Prep Check Out: AZ 05/14/20

Prep Reconciled Initials/Date: CHT 05/15/20

Pre-Prep Check In: CHT 05/15/20

Prep Check In: AZ 05/14/20

Spike Reconciled Initials/Date: AZ 05/14/20

VialBoxID: SH-60

Analyst: CHT	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>MA</u>
Analyte:	Units: %	
Oven ID: 01 (02)	Dried at 110°C +/- 5°C	

Inst **HRM3-9**

Date/Time IN: 05/15/20 Date/Time OUT: 05/18/20
22C 101b

Particle Size	Sample ID	Sample Type	Initial and Date:		CHT 05/15/20		CHT 05/18/20		Dry Sample Weight (g)	%Solids RawVal	CHT 05/15/20				Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Visual Inspection	pH Before	pH After			Acid Added				
	2001035-01	Sample	1.30	6.98	5.28					Mud				✓	
	2001035-02	Sample	1.30	5.06	3.90									✓	
	2001035-03	Sample	1.29	6.02	4.35									✓	
	2001035-04	Sample	1.29	7.90	5.60									✓	
	2001035-05	Sample	1.29	6.83	4.83									✓	
	2001035-06	Sample	1.29	6.91	4.85									✓	
	2001035-07	Sample	1.30	5.17	3.73									✓	
	2001035-08	Sample	1.29	6.56	4.74									✓	
	2001035-09	Sample	1.29	5.24	3.82									✓	
	2001035-10	Sample	1.30	5.67	4.10									✓	
	2001035-11	Sample	1.29	7.07	5.02									✓	
	2001035-12	Sample	1.30	6.85	4.29									✓	
	2001035-13	Sample	1.30	6.30	4.56									✓	

*Sample homogenized in sample container unless otherwise noted.

PREPARATION BENCH SHEET

Matrix: Solid

B0E0145

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-May-20 06:06

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0E0145-BLK1	(10.00)	(10.00)	AO AZ 05/19/20	2 06/05/2020	05/06/2020	05/06/2020	05/06/2020	06/06/2020	EM AO 06/07/20
<input type="checkbox"/>	B0E0145-BS1	(10.00)	(10.00)							
<input type="checkbox"/>	B0E0145-DUP1 2001035-04	15.34	15.62			N/A				
<input type="checkbox"/>	2001035-01	14.27	14.34			05/06/2020	Black			
<input type="checkbox"/>	2001035-02	14.46	14.46			N/A				
<input type="checkbox"/>	2001035-03	15.46	15.61							
<input type="checkbox"/>	2001035-04	15.34	15.71							
<input type="checkbox"/>	2001035-05	15.65	15.81							
<input type="checkbox"/>	2001035-06	15.79	15.85							
<input type="checkbox"/>	2001035-07	15.93	15.98							
<input type="checkbox"/>	2001035-08	15.28	15.30			05/06/2020	Black			
<input type="checkbox"/>	2001035-09	15.61	15.78			N/A				
<input type="checkbox"/>	2001035-10	15.61	15.72							
<input type="checkbox"/>	2001035-11	15.50	15.50				Black			
<input type="checkbox"/>	2001035-12	17.56	17.67			05/06/2020	Black			

IS Name <u>V6</u>	NS Name <u>V1</u>	CRS Name <u>V6</u>	RS Name <u>V6</u>	Cycle Time	APP: SEFUN SOX <u>(SDS)</u>	Check Out: Chemist/Date: <u>AZ 05/15/20</u>
PCDD/F <u>19L230, 10mL</u>	PCDD/F <u>18 F 1915, 10mL</u>	PCDD/F <u>20 E 0701, 10mL</u>	PCDD/F <u>20 E 0702, 10mL</u>	Start Date/Time <u>1537 05/19/20</u>	SOLV: <u>TO1</u>	Check In: Chemist/Date: <u>AZ 05/19/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>0820 05/20/20</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>20mL</u>	<u>C14</u>	

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume
- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist

PREPARATION BENCH SHEET

Matrix: Solid

B0E0145

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-May-20 06:05

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	2001035-13	15.34	15.49	AO AZ 05/19/20	AO AZ 05/19/20	AO AZ 05/06/2020	AO AZ 05/06/2020	AO AZ 05/06/2020	AO AZ 05/06/2020	AO AZ 06/07/20

IS Name <u>2</u>	NS Name <u>1</u>	CRS Name <u>6</u>	RS Name <u>16</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>AZ 05/19/20</u>
PCDD/F <u>19L2301, 10ML</u>	PCDD/F <u>18F1913, 10ML</u>	PCDD/F <u>20E0701, 10ML</u>	PCDD/F <u>20E0702, 10ML</u>	Start Date/Time <u>15:37 05/19/20</u>	SOLV: <u>TOL</u>	Check In: Chemist/Date: <u>AZ 05/19/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>06:20 05/20/20</u>	Other <u>NA</u>	Balance ID: <u>Hens 8</u>
PAH _____	PAH _____	PAH _____	PAH _____		Final Volume(s) <u>20ML</u>	
					<u>C14</u>	

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume
- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2001035-01	14.34 ✓	70.07043	10.0481	20 ✓	19-May-20 06:05	AZK ✓			Sediment	1613 Full List
2001035-02	14.46 ✓	69.14894	9.9989	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-03	15.61 ✓	64.69344	10.0986	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-04	15.71 ✓	65.20423	10.2436	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-05	15.81 ✓	63.89892	10.1024	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-06	15.85 ✓	63.3452	10.0402	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-07	15.98 ✓	62.7907	10.0340	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-08	15.3 ✓	65.46489	10.0161	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-09	15.78 ✓	64.05064	10.1072	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-10	15.72 ✓	64.07323	10.0723	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-11	15.5 ✓	64.53287	10.0026	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-12	17.67 ✓	56.95238	10.0635	20	19-May-20 06:05	AZK			Sediment	1613 Full List
2001035-13	15.49 ✓	65.2	10.0995	20	19-May-20 06:05	AZK			Sediment	1613 Full List
B0E0145-BLK1	10 ✓	100	(10.00)	20	19-May-20 06:06	AZK				QC
B0E0145-BS1	10 ✓	100	(10.00)	20	19-May-20 06:06	AZK	18F1913 ✓	10 ✓		QC
B0E0145-DUP1	15.62 ✓	65.20423	10.1849007	20 ✓	19-May-20 06:06	AZK ✓				QC

All bolded data on report verified against written benchsheet by (initial/date) EMM 06/08/20

Process Sheet
 Workorder: **2001035**

RX

Prep Expiration: 2021-05-08
 Client: Anchor QEA, LLC

Workorder Due: **10-Jun-20 00:00**
 TAT: 29

Method: **1613 Full List**
 Matrix: **Solid**
 Client Matrix: **Sediment**
 Also run: **Percent Solids**

Prep Batch: BOF0280
 Prep Data Entered: AO 06/30/20
Date and Initials
 Initial Sequence: S060015

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2001035-01 <i>A</i>	<input checked="" type="checkbox"/>	PDI-050SC-A-00-01-200508	12-May-20 09:50	WR-1 Cart	
2001035-02	<input type="checkbox"/>	PDI-050SC-A-01-02-200508	12-May-20 09:50	WR-1 Cart	
2001035-03	<input type="checkbox"/>	PDI-050SC-A-02-03-200508	12-May-20 09:50	WR-1 Cart	
2001035-04	<input type="checkbox"/>	PDI-050SC-A-03-04-200508	12-May-20 09:50	WR-1 Cart	
2001035-05	<input type="checkbox"/>	PDI-050SC-A-04-05-200508	12-May-20 09:50	WR-1 Cart	
2001035-06	<input type="checkbox"/>	PDI-050SC-A-05-06-200508	12-May-20 09:50	WR-1 Cart	
2001035-07	<input type="checkbox"/>	PDI-050SC-A-06-07-200508	12-May-20 09:50	WR-1 Cart	
2001035-08	<input type="checkbox"/>	PDI-050SC-B-00-00-200508	12-May-20 09:50	WR-1 Cart	
2001035-09	<input type="checkbox"/>	PDI-050SC-B-02-03-200508	12-May-20 09:50	WR-1 Cart	
2001035-10	<input type="checkbox"/>	PDI-050SC-B-05-07-200508	12-May-20 09:50	WR-1 Cart	
2001035-11	<input type="checkbox"/>	PDI-093SC-B-00-00-200508	12-May-20 09:50	WR-1 Cart	
2001035-12	<input type="checkbox"/>	PDI-093SC-B-02-03-200508	12-May-20 09:50	WR-1 Cart	
2001035-13	<input type="checkbox"/>	PDI-093SC-B-05-05-200508	12-May-20 09:50	WR-1 Cart	

WO Comments: Dioxin - 10g (dry weight)
One dup required per batch of 20 samples

Pre-Prep Check Out: N/A
 Pre-Prep Check In: N/A

Prep Check Out: DF 06/27/20
 Prep Check In: DF 06/27/20

Prep Reconciled Initials/Date: DF 06/27/20
 Spike Reconciled Initials/Date: RR 06/27/20
 VialBoxID: Tea

PREPARATION BENCH SHEET

Matrix: Solid

B0F0280

Chemist: DF

Method: 1613 Full List

Prep Date/Time: 27-Jun-20 17:05

Prepared using: HRMS - Soxhlet

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisol CHEM/ DATE	RS CHEM/WIT DATE
	B0F0280-BLK1	NA	(10.00)	DF RR 06/27/20	EMM HR 06/29/20	EMM 06/29/20	EMM 06/29/20	EMM 06/29/20	EMM 06/29/20	EMM 06/29/20
	B0F0280-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
	2001035-01RE1	14.27	14.35	↓	↓	↓	↓	↓	↓	↓

IS: 20 F1101, 10mL (V7)

NS: 20 F0107, 10mL (V5)

PS/CRS: 20 E0701, 10mL (V5)

RS: 20 E0702, 10mL (V5)

Diox/F PCB PAH PEST PBDE HCB

Cycle Time

Start Date/Time: 06/27/20

Stop Date/Time: 06/28/20 17:24

APP: SEFUN SOX (SDS)

SOLV: Toluene

Other: NA

Final Volume(s): C14
20mL

Check Out: Chemist/Date: DF 06/27/20

Check In: Chemist/Date: DF 06/27/20

Balance ID: HRMS-8

Soxhlet Siphoned Chemist/Date: DF 06/27/20

Vial Transfer Chemist/Date: DF 06/30/20

Notes:

- Comments:
- 1 = Sample approached dryness on rotovap
 - 2 = Sample bumped on rotovap; lost < 5%
 - 3 = Sample poured through Na2SO4 to remove water
 - 4 = Precipitate present at Final Volume
 - 5 = Sample homogenized in secondary container
 - 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist
 - 7 = Soxhlet approached dryness

Batch: B0F0280

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2001035-01RE1	14.35 ✓	70.07043	10.0551	20	27-Jun-20 17:05	DFO			Sediment	1613 Full List
B0F0280-BLK1	10			20 ✓	27-Jun-20 17:05	DFO ✓				QC
B0F0280-BS1	10			20 ✓	27-Jun-20 17:05 ✓	DFO ✓	20F0107 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) AO 06/30/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-4.qld

Last Altered: Wednesday, June 24, 2020 10:28:24 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 10:42:35 AM Pacific Daylight Time

HN 06/24/2020

CT 07/17/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.888	10.000	26.501		1.001				0.0796	
2	1,2,3,7,8-PeCDD			NO	0.908	10.000	31.457		1.001				0.0903	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.000	34.824		1.000				0.115	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.000	34.921		1.000				0.114	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.000	35.219		1.000				0.131	
6	1,2,3,4,6,7,8-HpCDD			NO	0.864	10.000	38.756		1.000				0.241	
7	OCDD	9.09e2	0.97	NO	0.914	10.000	41.748	41.79	1.000	1.001	1.1765		0.343	1.18
8	2,3,7,8-TCDF			NO	0.751	10.000	25.596		1.001				0.0519	
9	1,2,3,7,8-PeCDF			NO	0.893	10.000	30.175		1.001				0.0524	
10	2,3,4,7,8-PeCDF			NO	0.935	10.000	31.161		1.001				0.0520	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.000	33.941		1.000				0.0754	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.000	34.079		1.000				0.0650	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.000	34.689		1.001				0.0762	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.000	35.570		1.000				0.131	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.000	37.386		1.001				0.126	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	39.298		1.000				0.154	
17	OCDF			NO	0.806	10.000	41.950		1.000				0.193	
18	13C-2,3,7,8-TCDD	7.14e5	0.78	NO	1.16	10.000	26.491	26.47	1.026	1.026	140.77	70.4	0.215	
19	13C-1,2,3,7,8-PeCDD	4.95e5	0.63	NO	0.849	10.000	31.674	31.43	1.227	1.218	132.78	66.4	0.226	
20	13C-1,2,3,4,7,8-HxCDD	3.04e5	1.25	NO	0.779	10.000	34.830	34.81	1.014	1.014	146.37	73.2	0.742	
21	13C-1,2,3,6,7,8-HxCDD	3.98e5	1.24	NO	1.02	10.000	34.944	34.92	1.017	1.017	147.02	73.5	0.568	
22	13C-1,2,3,7,8,9-HxCDD	3.58e5	1.27	NO	0.903	10.000	35.215	35.21	1.025	1.025	149.11	74.6	0.640	
23	13C-1,2,3,4,6,7,8-HpCDD	2.26e5	1.00	NO	0.689	10.000	38.739	38.74	1.128	1.128	123.24	61.6	0.237	
24	13C-OCDD	3.38e5	0.92	NO	0.652	10.000	41.761	41.75	1.216	1.216	194.80	48.7	0.399	
25	13C-2,3,7,8-TCDF	8.65e5	0.77	NO	1.06	10.000	25.534	25.57	0.989	0.991	119.01	59.5	0.277	
26	13C-1,2,3,7,8-PeCDF	8.01e5	1.58	NO	0.838	10.000	30.058	30.15	1.165	1.168	139.22	69.6	0.409	
27	13C-2,3,4,7,8-PeCDF	7.64e5	1.58	NO	0.817	10.000	31.011	31.13	1.202	1.206	136.19	68.1	0.420	
28	13C-1,2,3,4,7,8-HxCDF	4.20e5	0.50	NO	1.01	10.000	33.961	33.94	0.989	0.988	156.56	78.3	0.615	
29	13C-1,2,3,6,7,8-HxCDF	5.14e5	0.51	NO	1.17	10.000	34.085	34.07	0.992	0.992	165.53	82.8	0.531	
30	13C-2,3,4,6,7,8-HxCDF	4.11e5	0.49	NO	1.02	10.000	34.659	34.65	1.009	1.009	151.24	75.6	0.607	
31	13C-1,2,3,7,8,9-HxCDF	3.25e5	0.53	NO	0.860	10.000	35.558	35.57	1.035	1.036	141.90	71.0	0.721	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-4.qld

Last Altered: Wednesday, June 24, 2020 10:28:24 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 10:42:35 AM Pacific Daylight Time

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.66e5	0.42	NO	0.774	10.000	37.307	37.35	1.086	1.087	129.21	64.6	0.550	
33	13C-1,2,3,4,7,8,9-HpCDF	1.67e5	0.45	NO	0.521	10.000	39.336	39.30	1.145	1.144	120.17	60.1	0.818	
34	13C-OCDF	3.95e5	0.83	NO	0.746	10.000	41.933	41.95	1.221	1.221	199.18	49.8	0.389	
35	37Cl-2,3,7,8-TCDD	2.73e5			1.04	10.000	26.522	26.48	1.028	1.026	59.927	74.9	0.0377	
36	13C-1,2,3,4-TCDD	8.78e5	0.78	NO	1.00	10.000	25.890	25.81	1.000	1.000	200.00	100	0.248	
37	13C-1,2,3,4-TCDF	1.37e6	0.78	NO	1.00	10.000	24.360	24.12	1.000	1.000	200.00	100	0.294	
38	13C-1,2,3,4,6,9-HxCDF	5.33e5	0.51	NO	1.00	10.000	34.420	34.35	1.000	1.000	200.00	100	0.620	
39	Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0499	
40	Total Penta-Dioxins				0.908	10.000	29.960		0.000				0.0420	
41	Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.0670	
42	Total Hepta-Dioxins				0.864	10.000	37.640		0.000				0.114	
43	Total Tetra-Furans				0.751	10.000	23.610		0.000				0.0236	
44	1st Func. Penta-Furans				0.893	10.000	27.580		0.000				0.0158	
45	Total Penta-Furans				0.893	10.000	29.275		0.000				0.0225	
46	Total Hexa-Furans				0.934	10.000	33.555		0.000				0.0423	
47	Total Hepta-Furans				0.873	10.000	37.835		0.000				0.0709	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-4.qld

Last Altered: Wednesday, June 24, 2020 10:28:24 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 10:42:35 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
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Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
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Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
------	----	-----------	-----------	---------	---------	----	-----	------	-------	------	----

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
------	----	-----------	-----------	---------	---------	----	-----	------	-------	------	----

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
------	----	-----------	-----------	---------	---------	----	-----	------	-------	------	----

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
------	----	-----------	-----------	---------	---------	----	-----	------	-------	------	----

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-4.qld

Last Altered: Wednesday, June 24, 2020 10:28:24 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 10:42:35 AM Pacific Daylight Time

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc.	EMPC	DL
------	----	-----------	-----------	---------	---------	----	----	------	-------	------	----

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc.	EMPC	DL
------	----	-----------	-----------	---------	---------	----	----	------	-------	------	----

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Resp	Conc.	EMPC	DL
------	----	-----------	-----------	---------	---------	----	----	------	-------	------	----

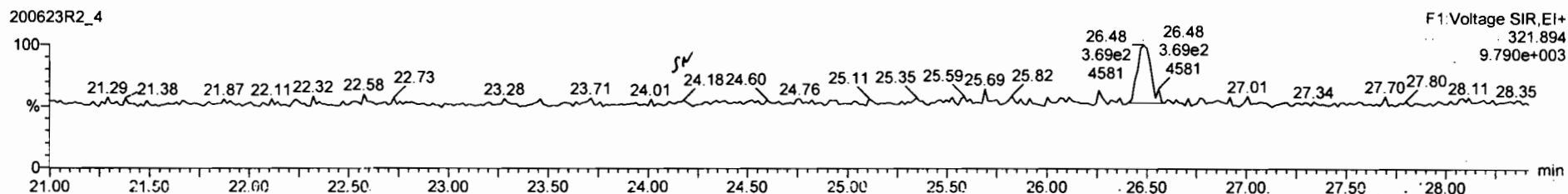
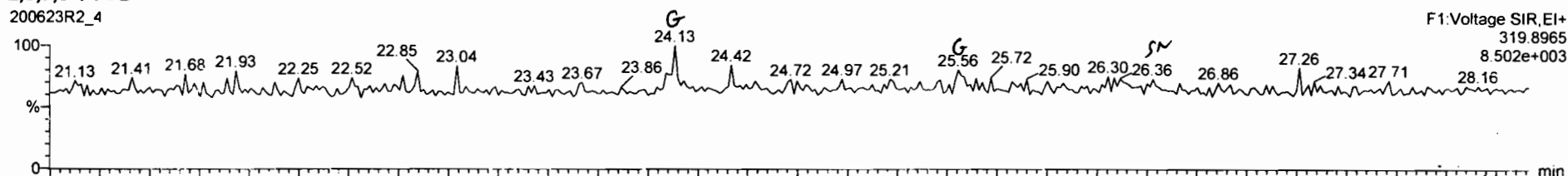
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

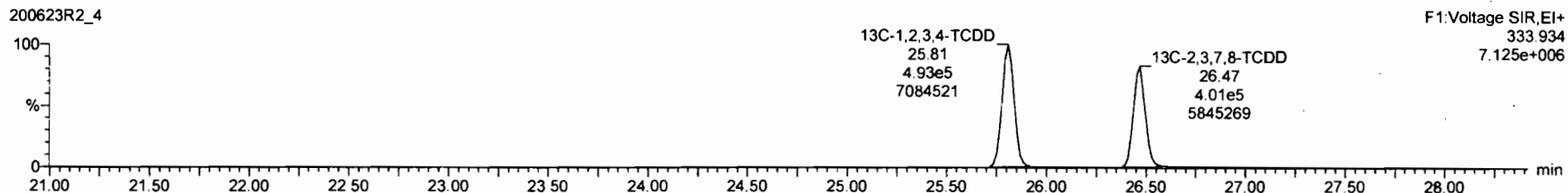
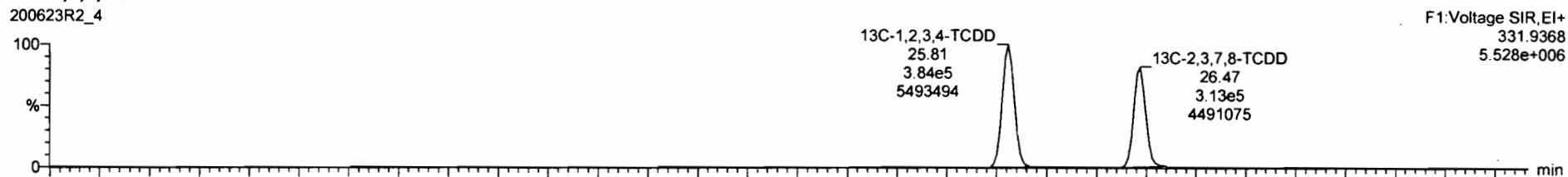
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

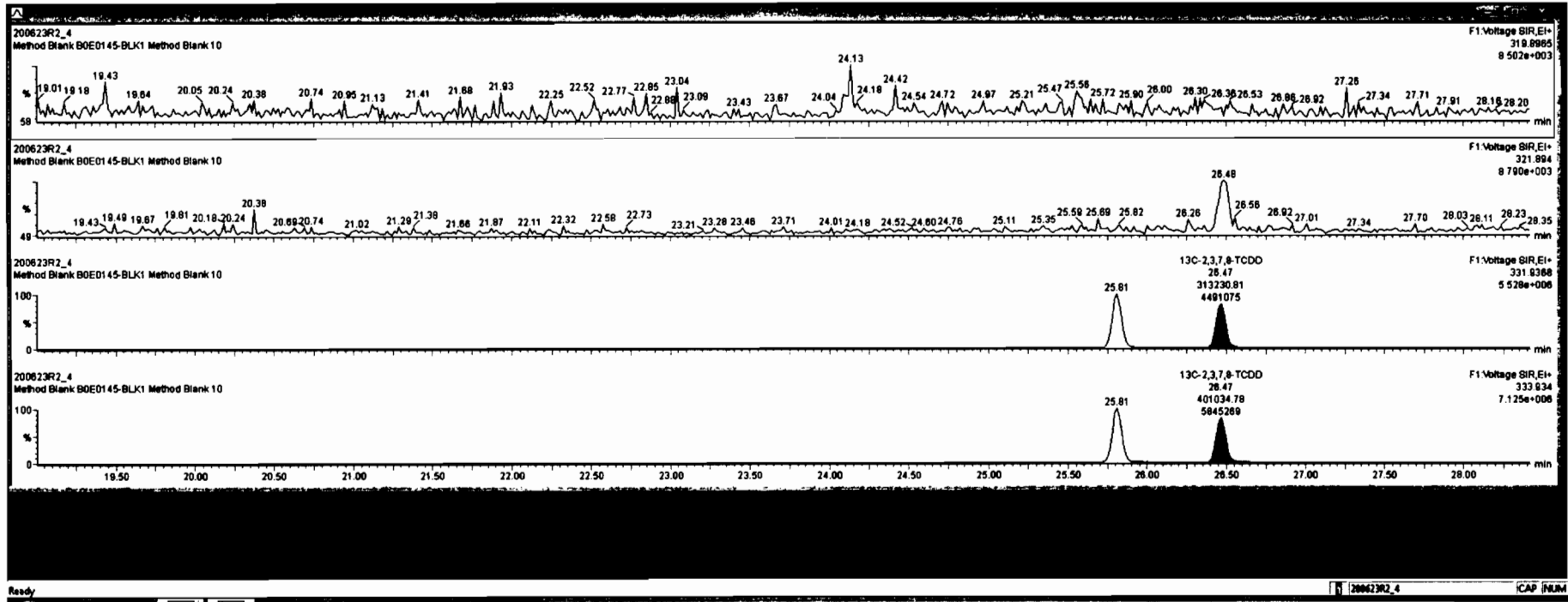


13C-2,3,7,8-TCDD



Sample	Concentration	Area	Height	Width	Retention	Response
01	Total Penta-Dioxine	0.8091	10.000	29.96		0.0420
02	Total Hexa-Dioxine	0.8623	10.000	33.63		0.0670
03	Total Hepta-Dioxine	0.8639	10.000	37.84		0.114
04	Total Tetra-Furans	0.7510	10.000	23.81		0.0236

Sample	Concentration	Area	Height	Width	Retention	Response
05						



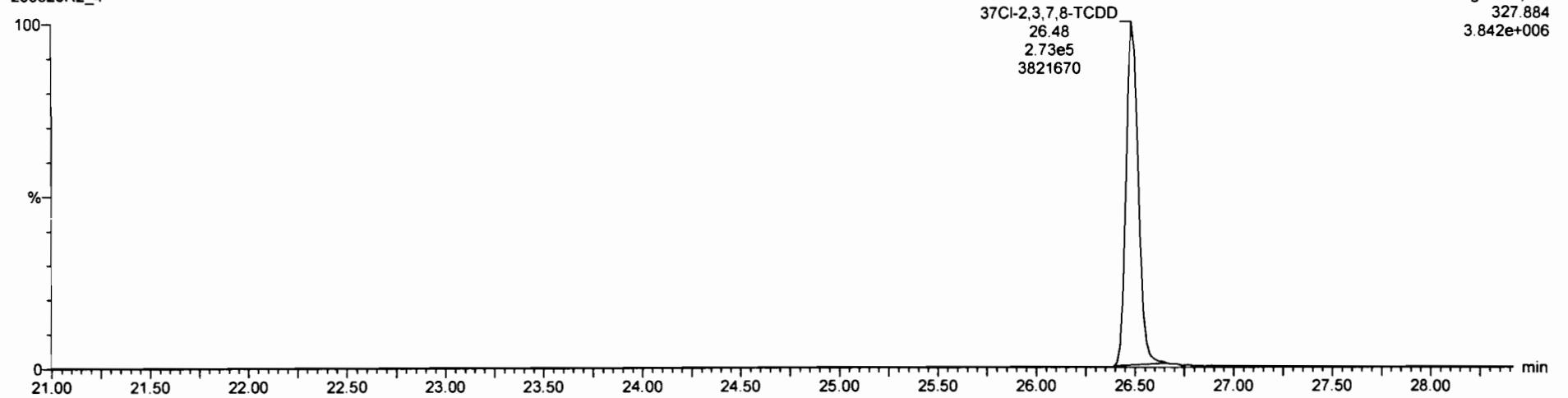
Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

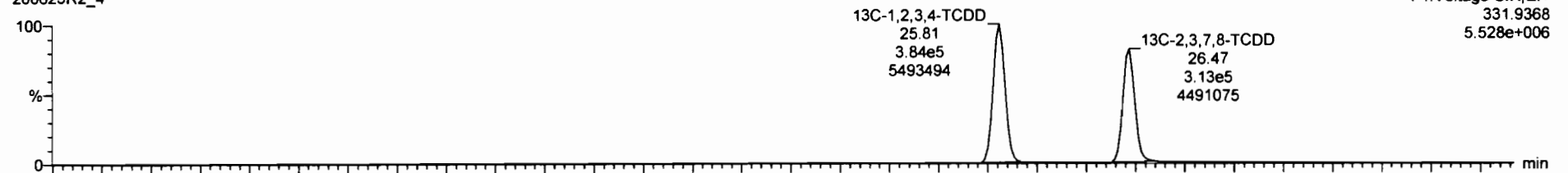
37Cl-2,3,7,8-TCDD

200623R2_4

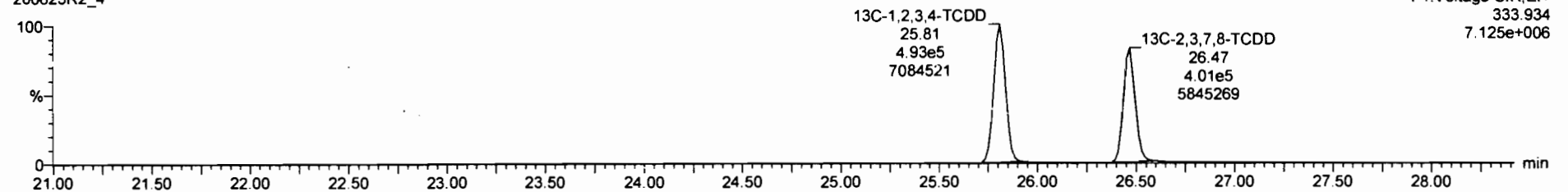


13C-1,2,3,4-TCDD

200623R2_4



200623R2_4



Dataset: Untitled

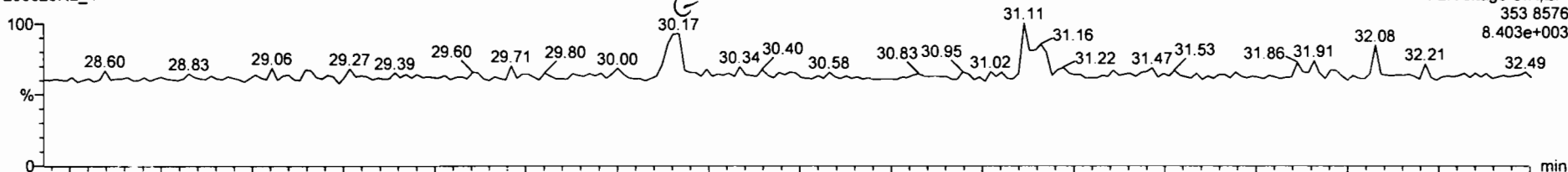
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

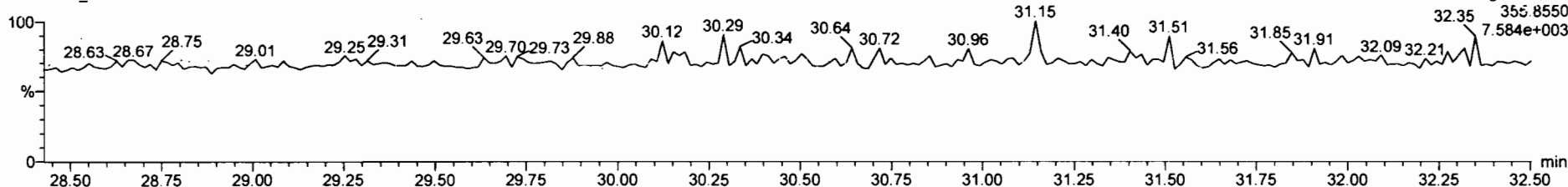
Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200623R2_4

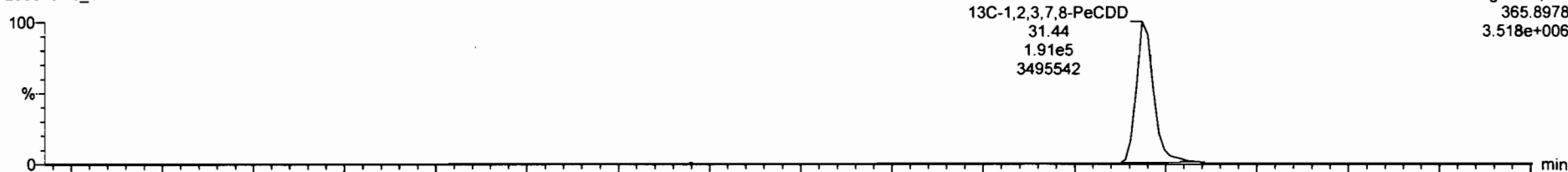


200623R2_4

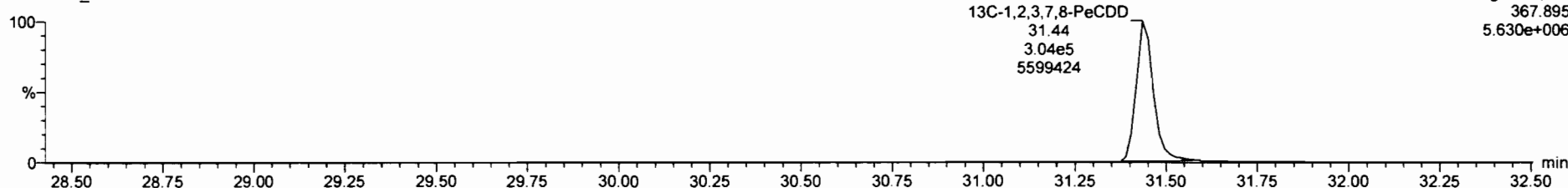


13C-1,2,3,7,8-PeCDD

200623R2_4



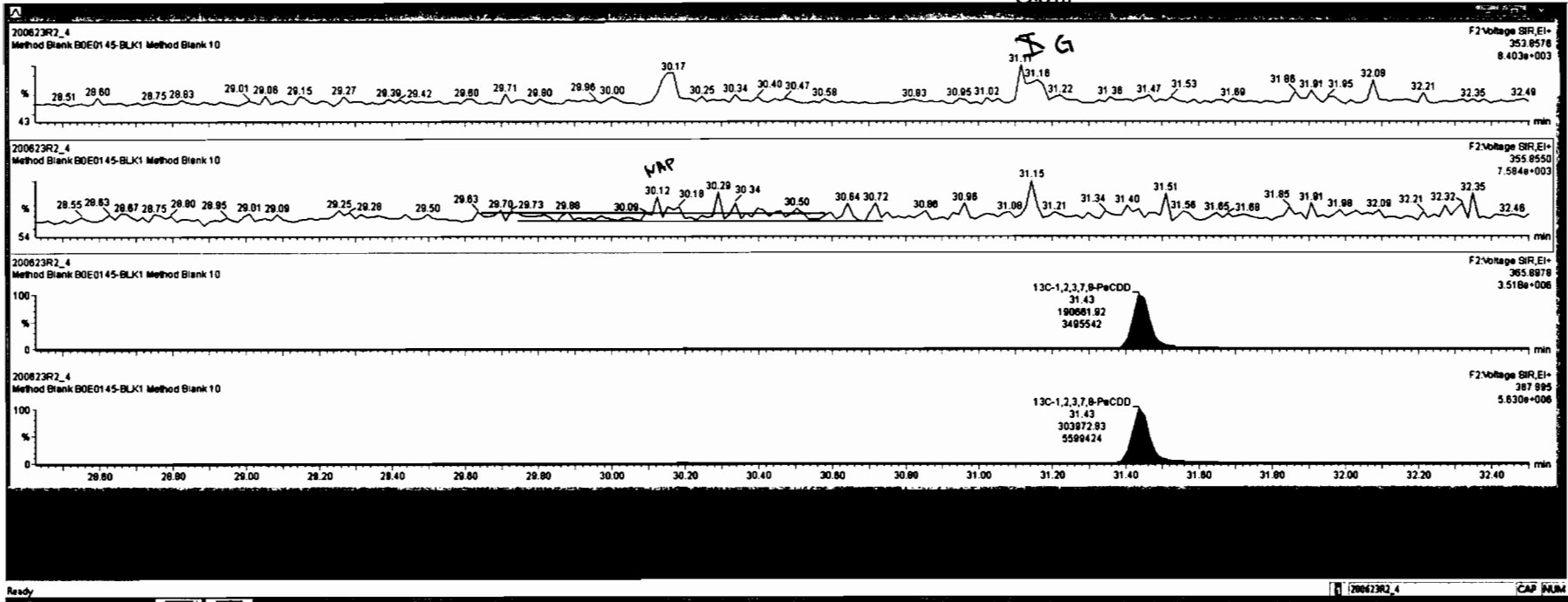
200623R2_4



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
39	Total Tetra-Dioxins		0.8683	10.000	24.82														0.0480
40																			
41	Total Hexa-Dioxins		0.8623	10.000	33.83														0.0870
42	Total Hepta-Dioxins		0.8636	10.000	37.84														0.114
43	Total Tetra-Furans		0.7510	10.000	23.81														0.0236

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1																			

0107/17/2020



Dataset: Untitled

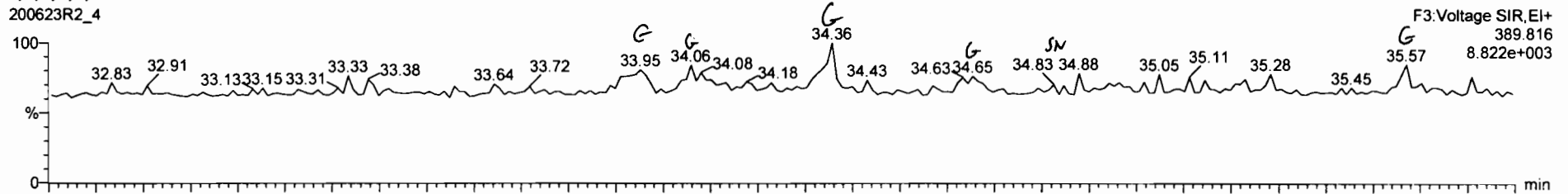
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

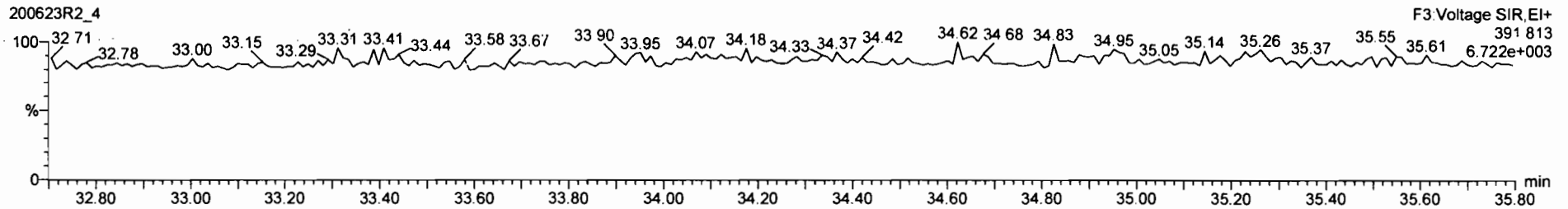
Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

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

200623R2_4

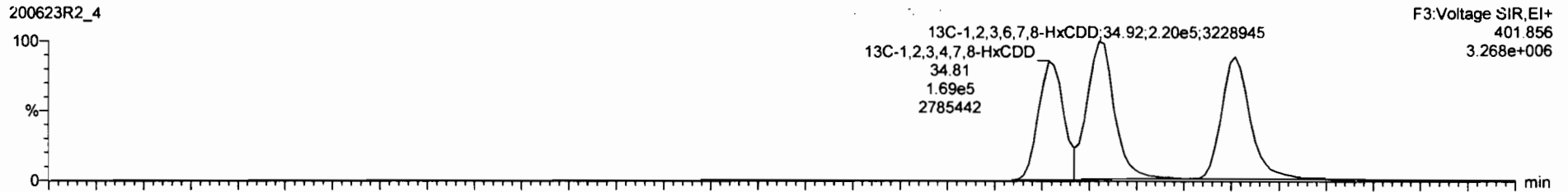


200623R2_4

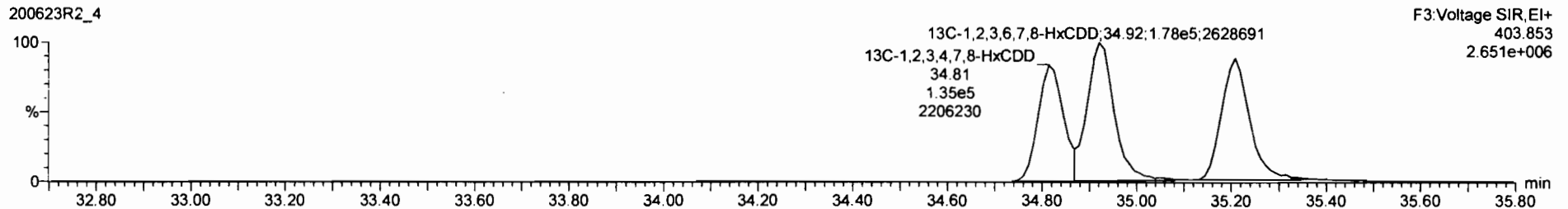


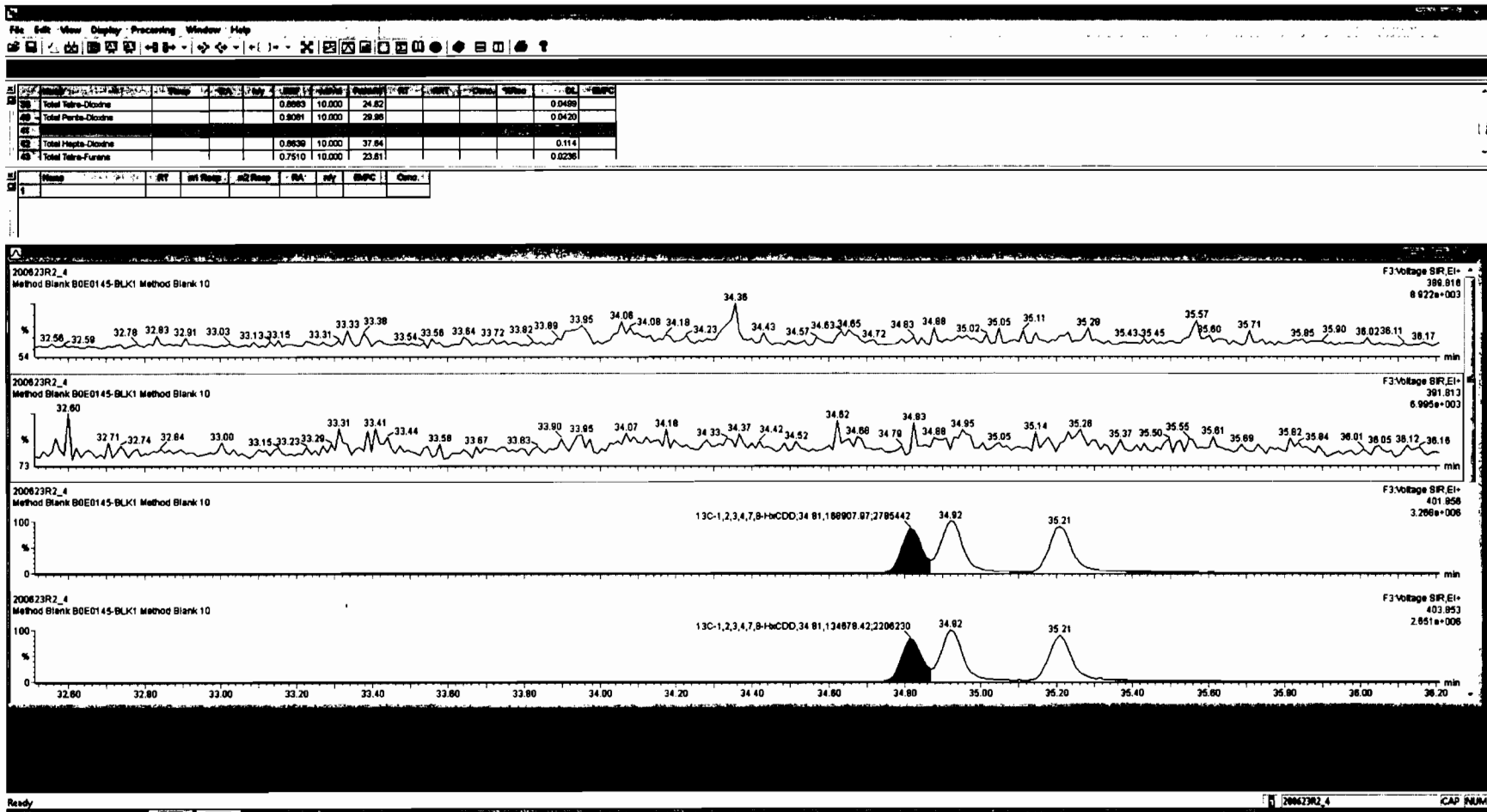
13C-1,2,3,4,7,8-HxCDD

200623R2_4



200623R2_4



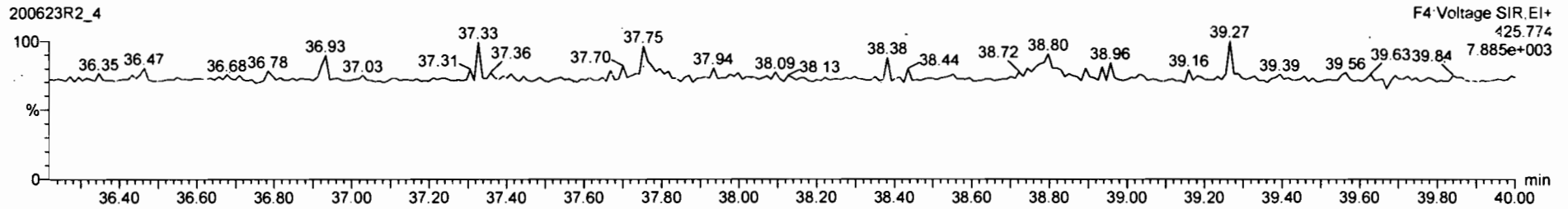
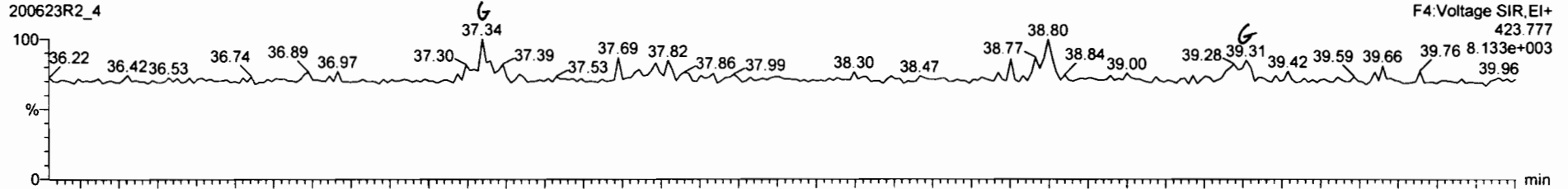


Dataset: Untitled

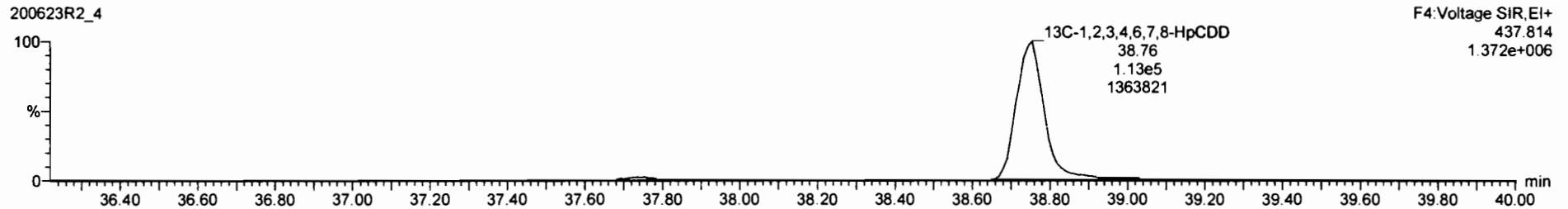
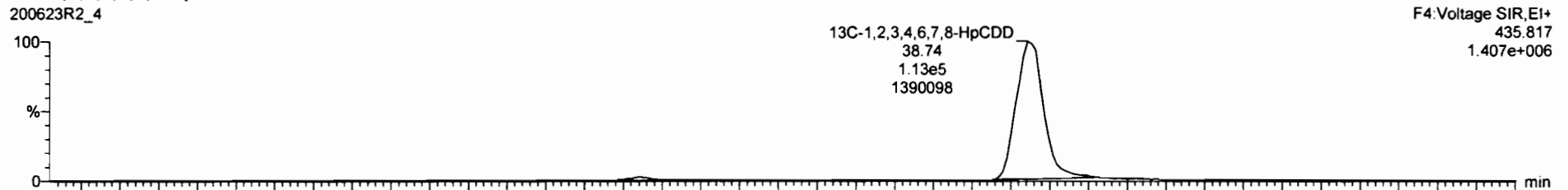
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

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



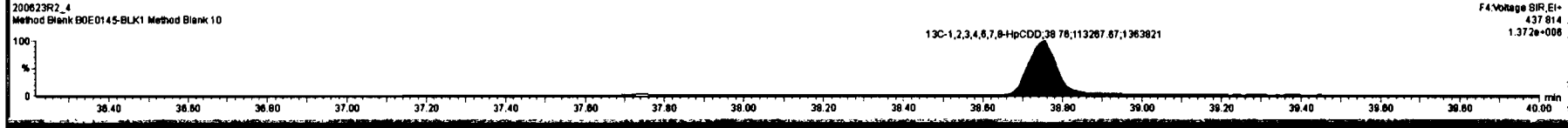
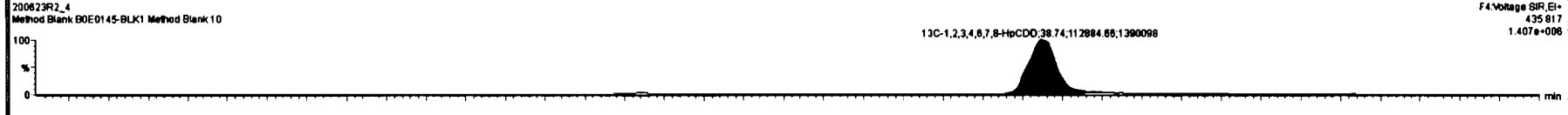
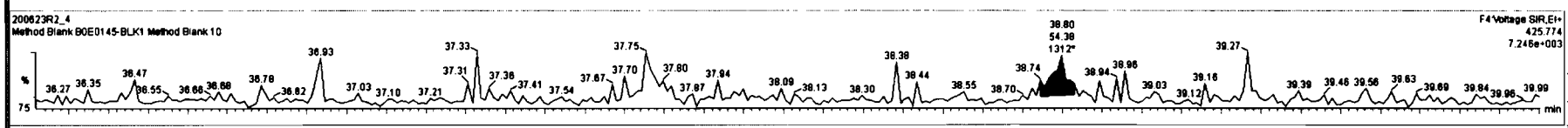
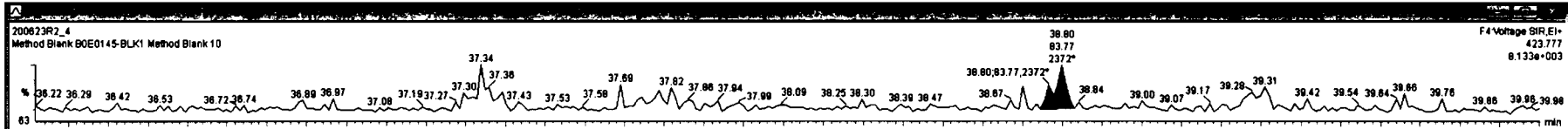
13C-1,2,3,4,6,7,8-HpCDD



Peak	Name	Area	Height	W	Ret	Conc	DL	SL
28	Total Tetra-Chlorine	0.8983	10.000	24.82			0.0488	
29	Total Penta-Chlorine	0.9081	10.000	28.98			0.0420	
30	Total Hexa-Chlorine	0.8923	10.000	33.83			0.0670	
43	Total Tetra-Furane	0.7510	10.000	23.81			0.0236	

Name	RT	Int Resp	Ext Resp	SN	Std	Conc

NP

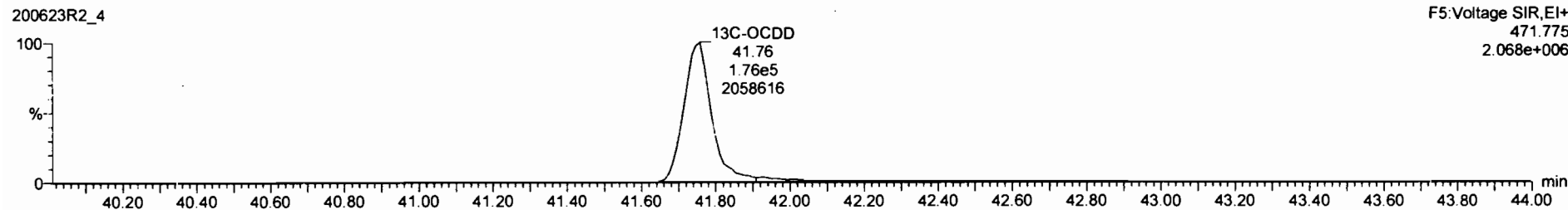
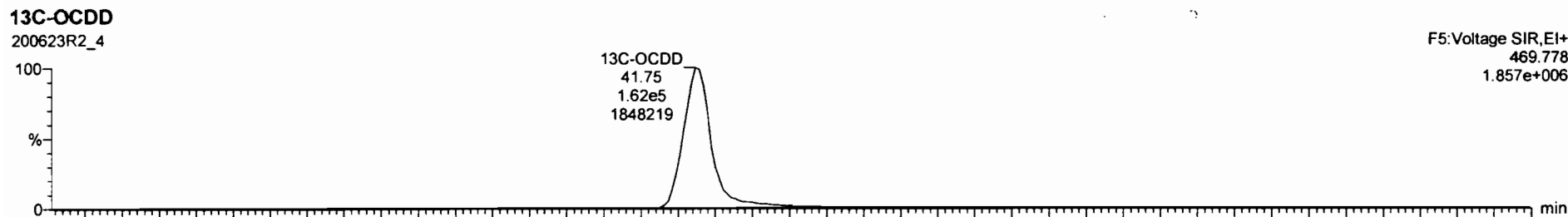
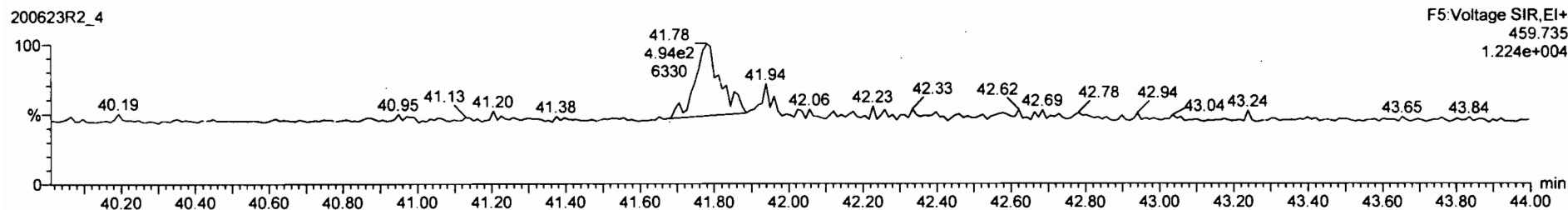
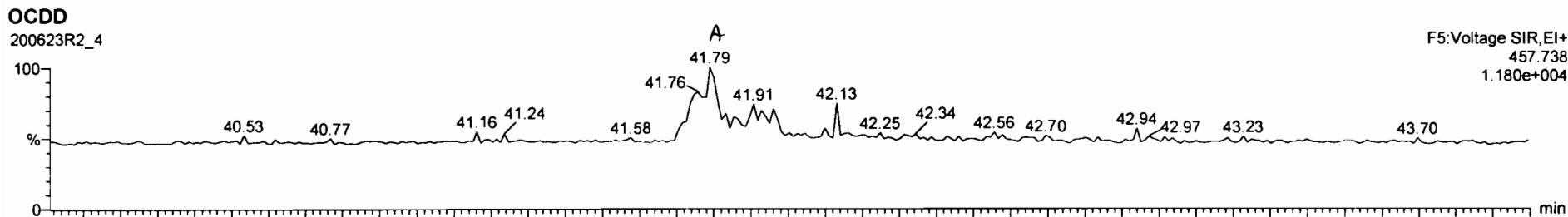


Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

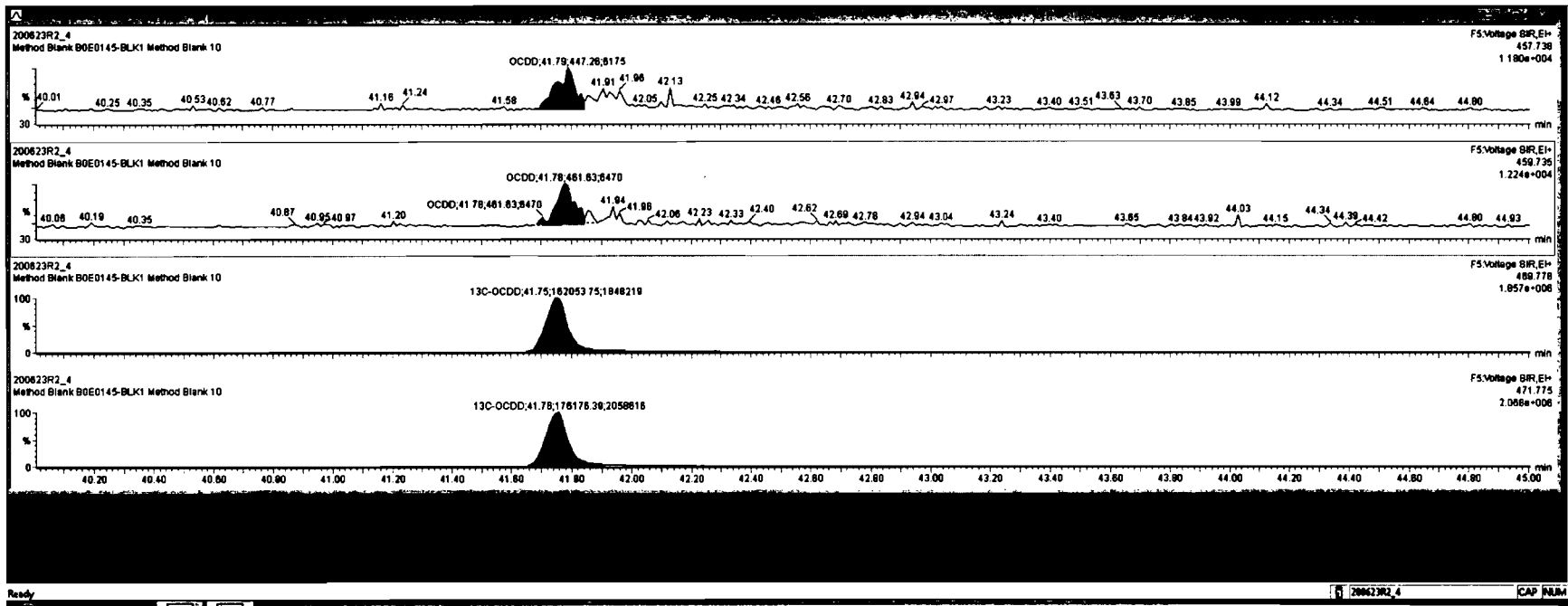
Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank





Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
1	2.37	10.000	25.80				0.0519
2	12.37	10.000	30.18				0.0624
3	23.47	10.000	31.16				0.0620
4	11.23	10.000	33.94				0.0754

Method	File	Ref	Ref	Ref	Ref	Ref	Ref	Ref



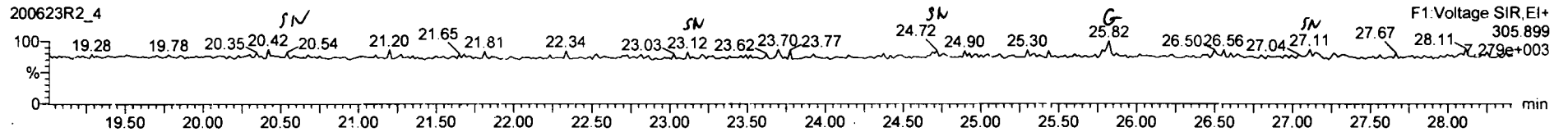
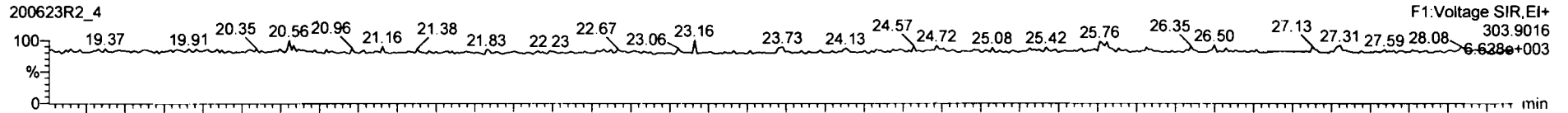
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

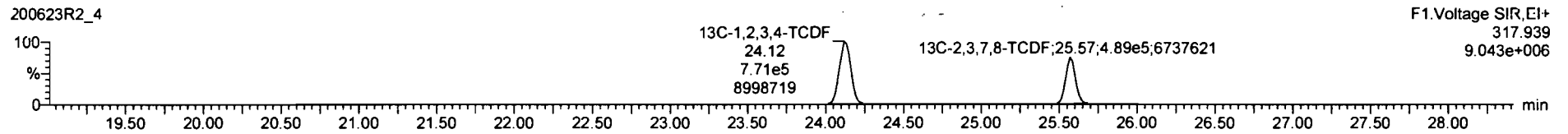
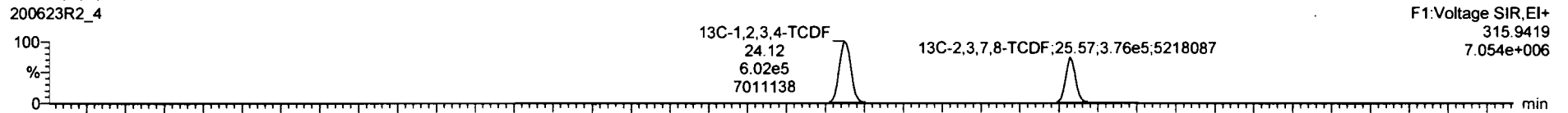
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

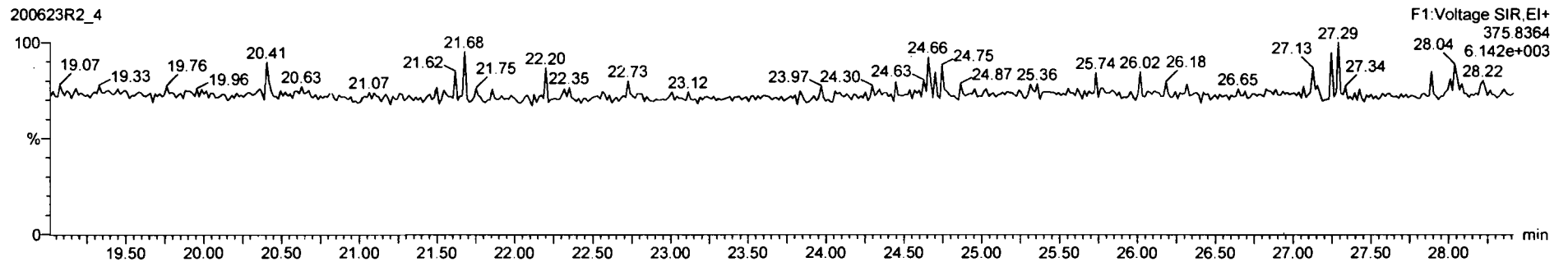
2,3,7,8-TCDF



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

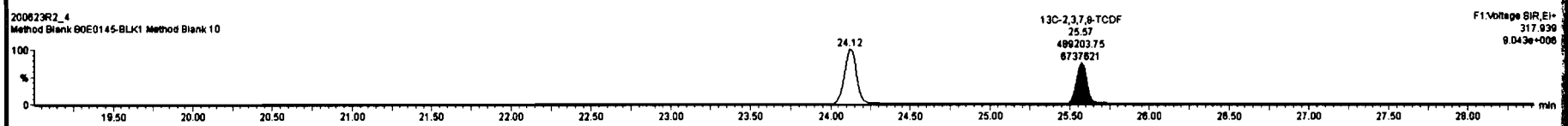
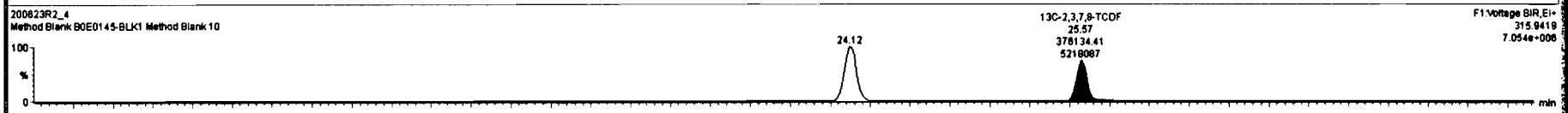
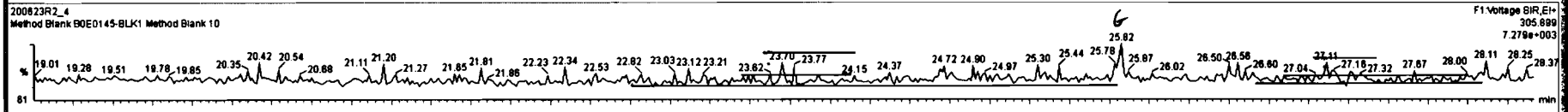
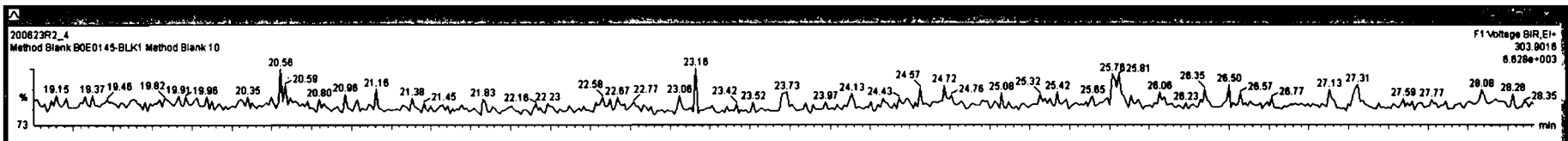


DPE1



1st Func. Penta-Furane	0.6625	10.000	27.58					0.0158
Total Penta-Furane	0.6625	10.000	29.27					0.0225
Total Hexa-Furane	0.9341	10.000	33.58					0.0423
Total Hepta-Furane	0.8734	10.000	37.831					0.0709

MetNo	Met	RT	Int Resp	Std Resp	Area	Height	WPC	Conc.



Dataset: Untitled

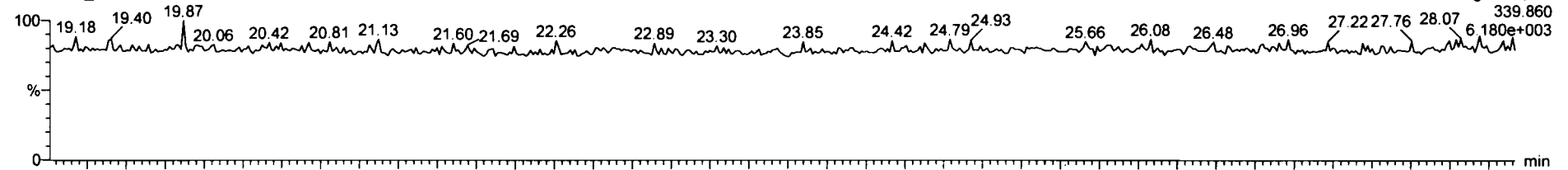
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

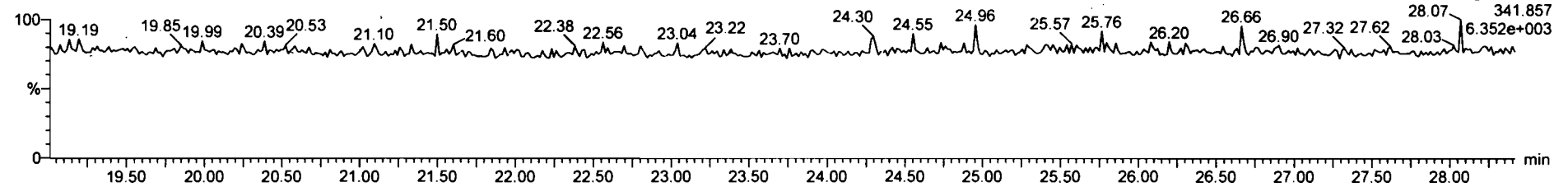
Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200623R2_4

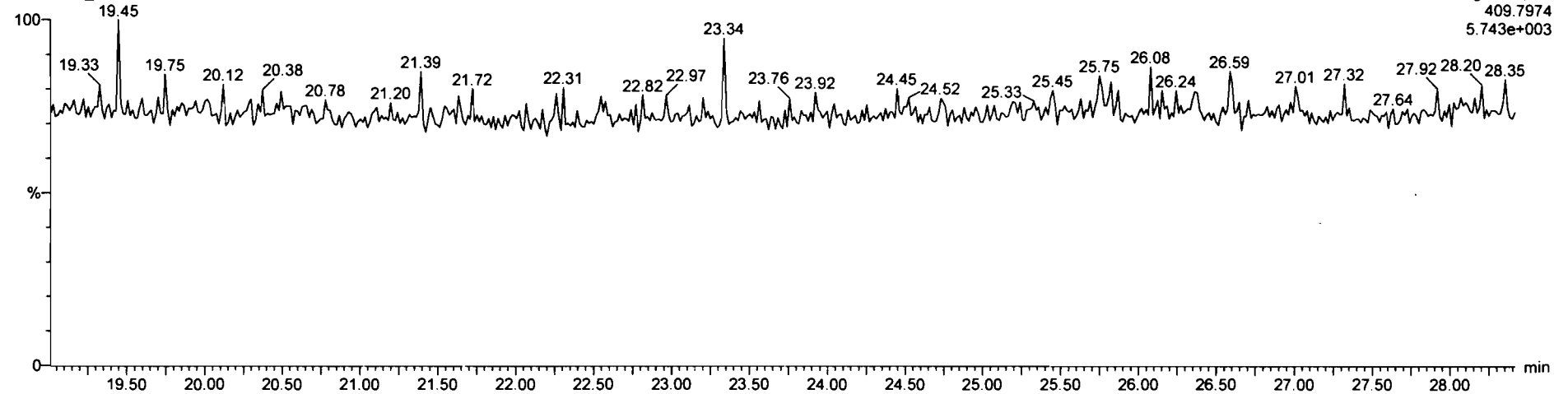


200623R2_4



DPE6

200623R2_4

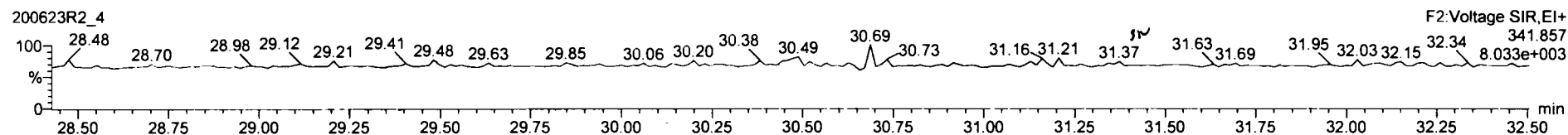
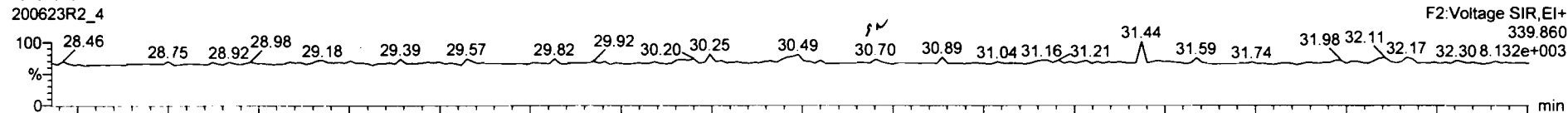


Dataset: Untitled

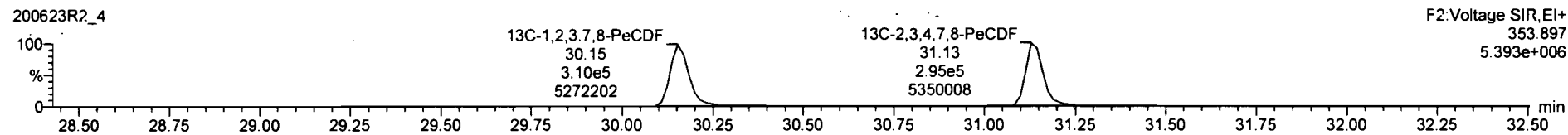
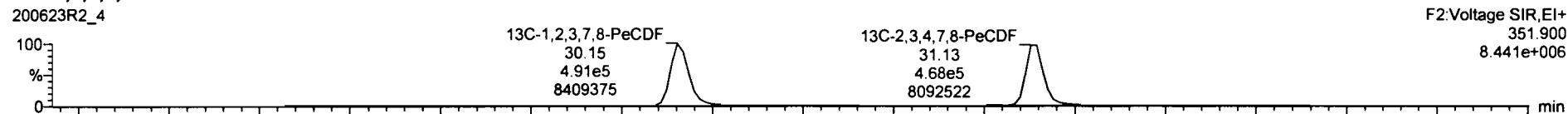
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

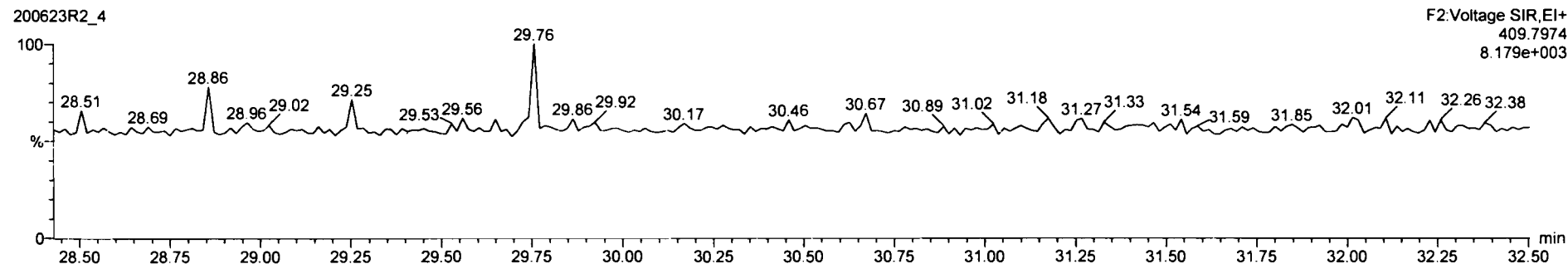
1,2,3,7,8-PeCDF



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



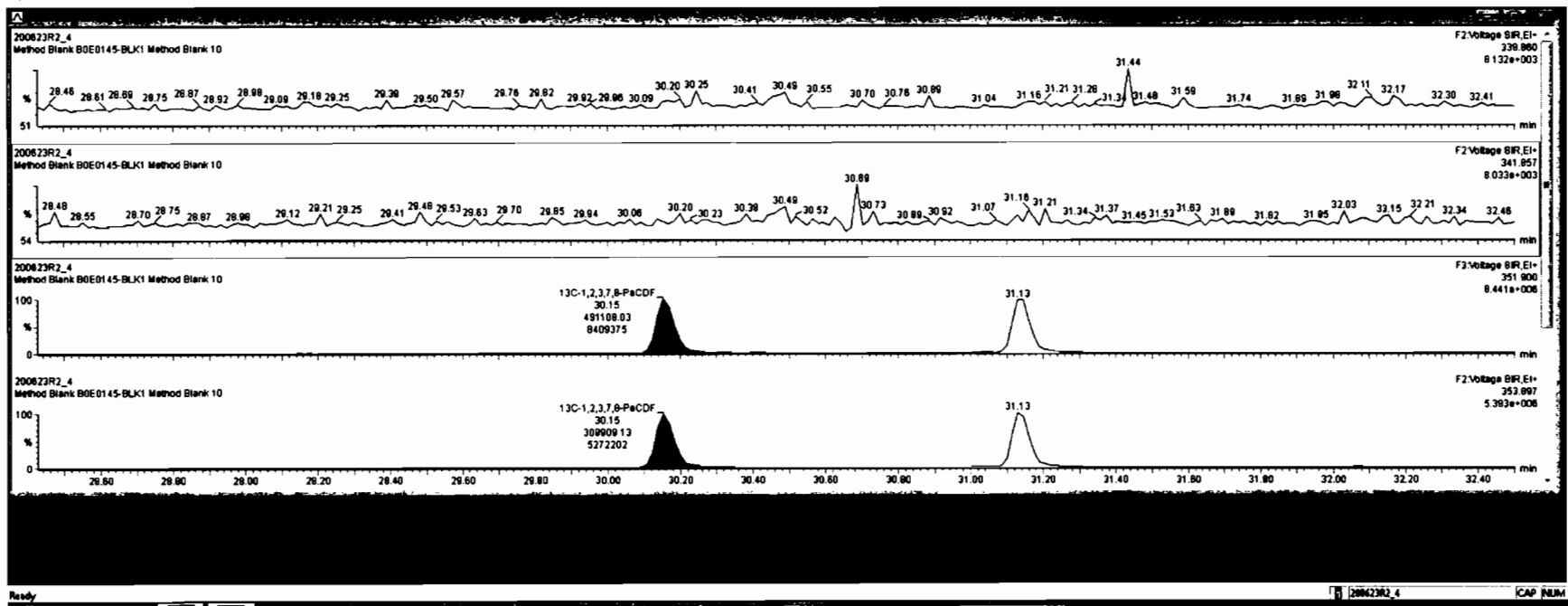
DPE2





RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
27.51	10.000	23.81																
27.58	10.000	27.58																
33.56	10.000	33.56																
37.83	10.000	37.83																

RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%



Dataset: Untitled

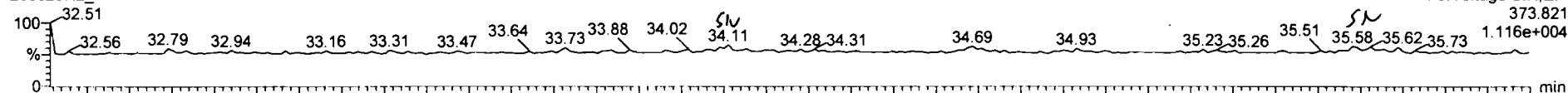
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

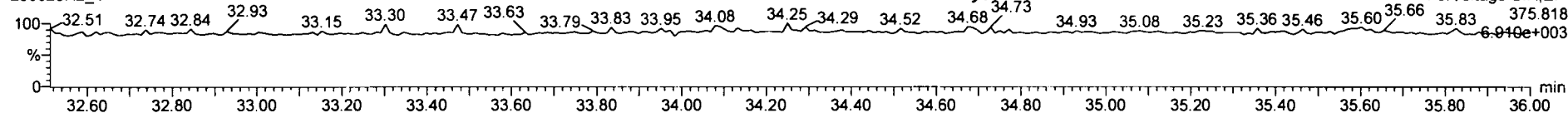
Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

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

200623R2_4

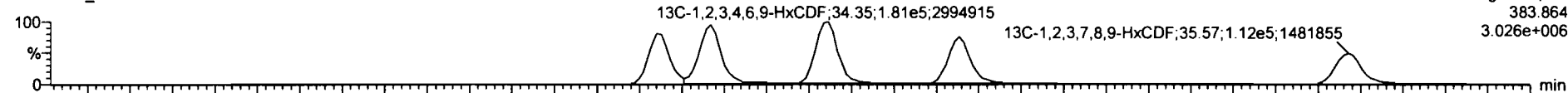


200623R2_4

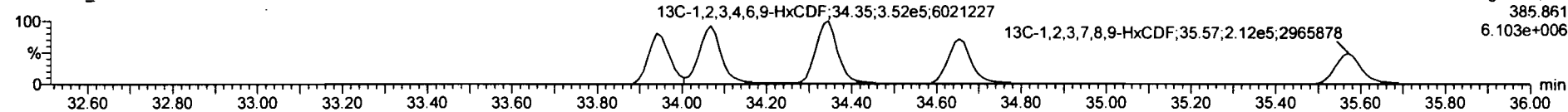


13C-1,2,3,4,7,8-HxCDF

200623R2_4

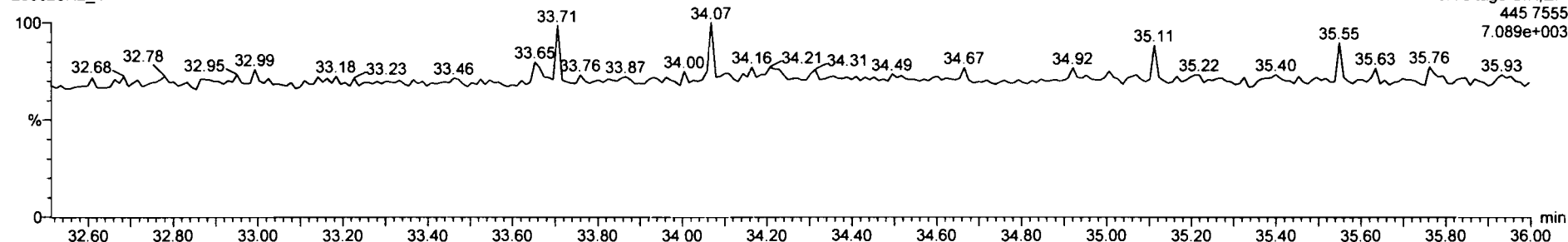


200623R2_4



DPE3

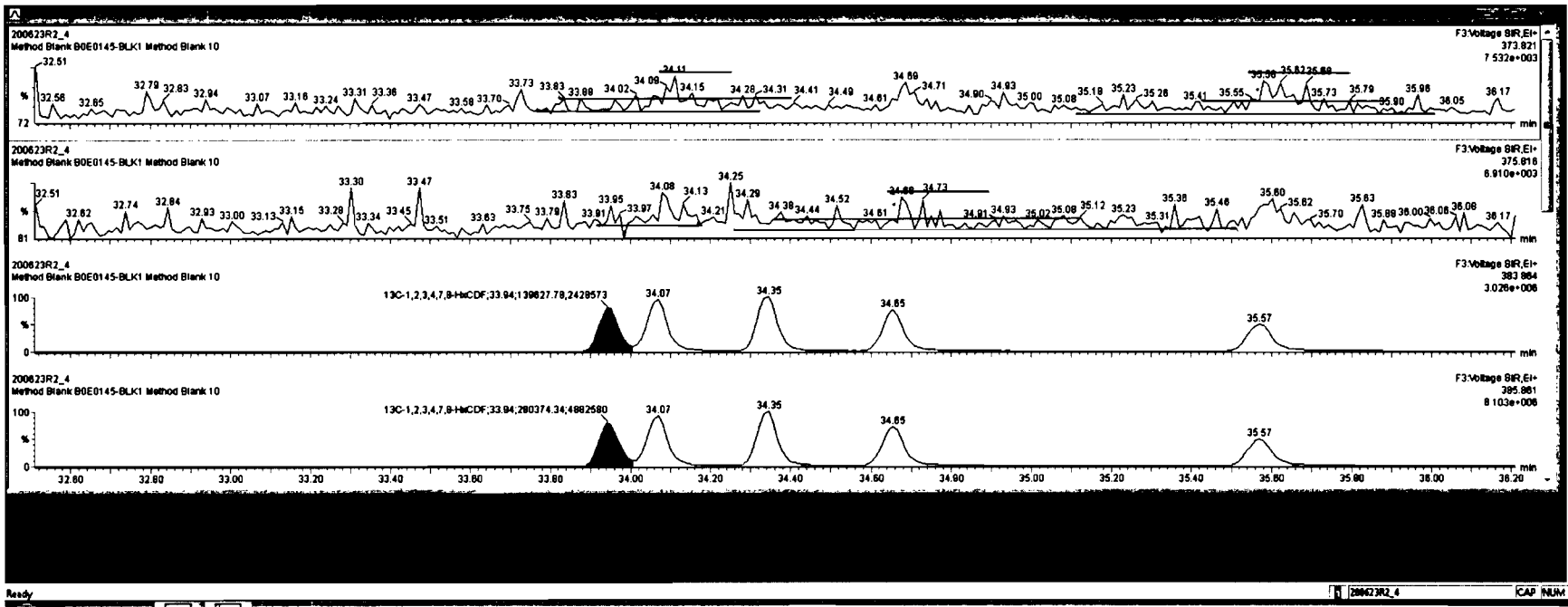
200623R2_4



File Edit View Display Processing Window Help

ID	Name	Area	Height	Width	Retention	Integration	Integration	Integration
23	Total Nona-Furane	0.7510	10.000	23.91				0.0236
24	Total Peris-Furane	0.8825	10.000	27.58				0.0158
25	Total Peris-Furane	0.8825	10.000	28.27				0.0225
26	Total Hepta-Furane	0.8734	10.000	37.83				0.0700

ID	Name	Area	Height	Width	Retention	Integration	Integration	Integration
27								

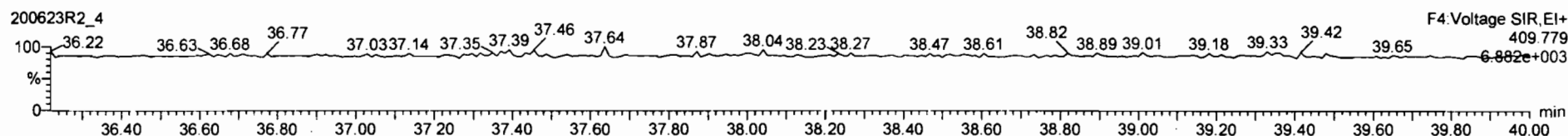
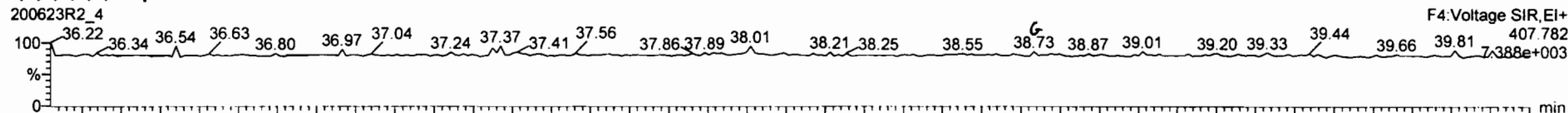


Dataset: Untitled

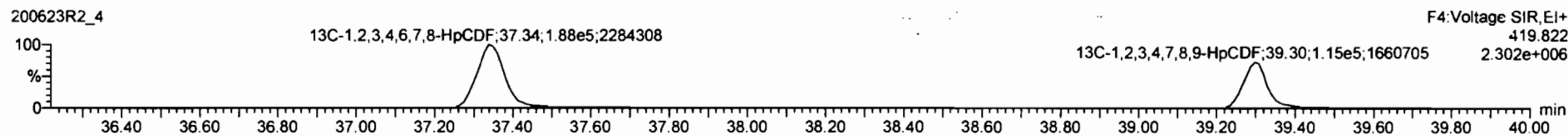
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

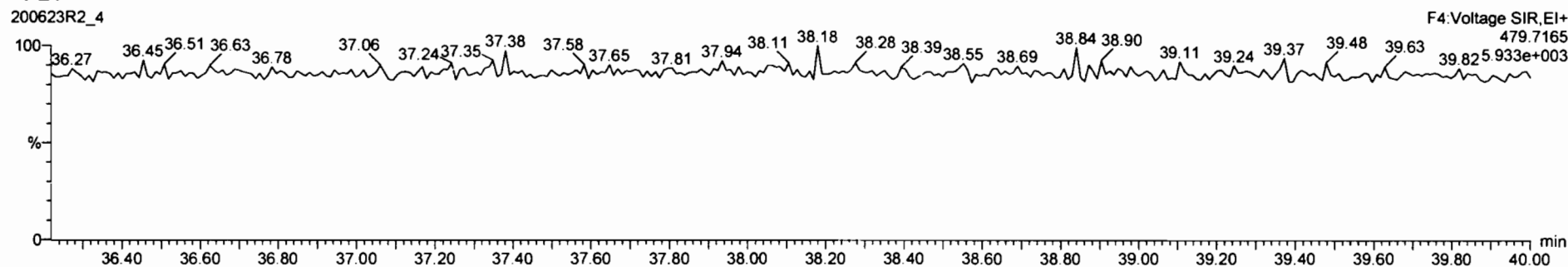
1,2,3,4,6,7,8-HpCDF



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

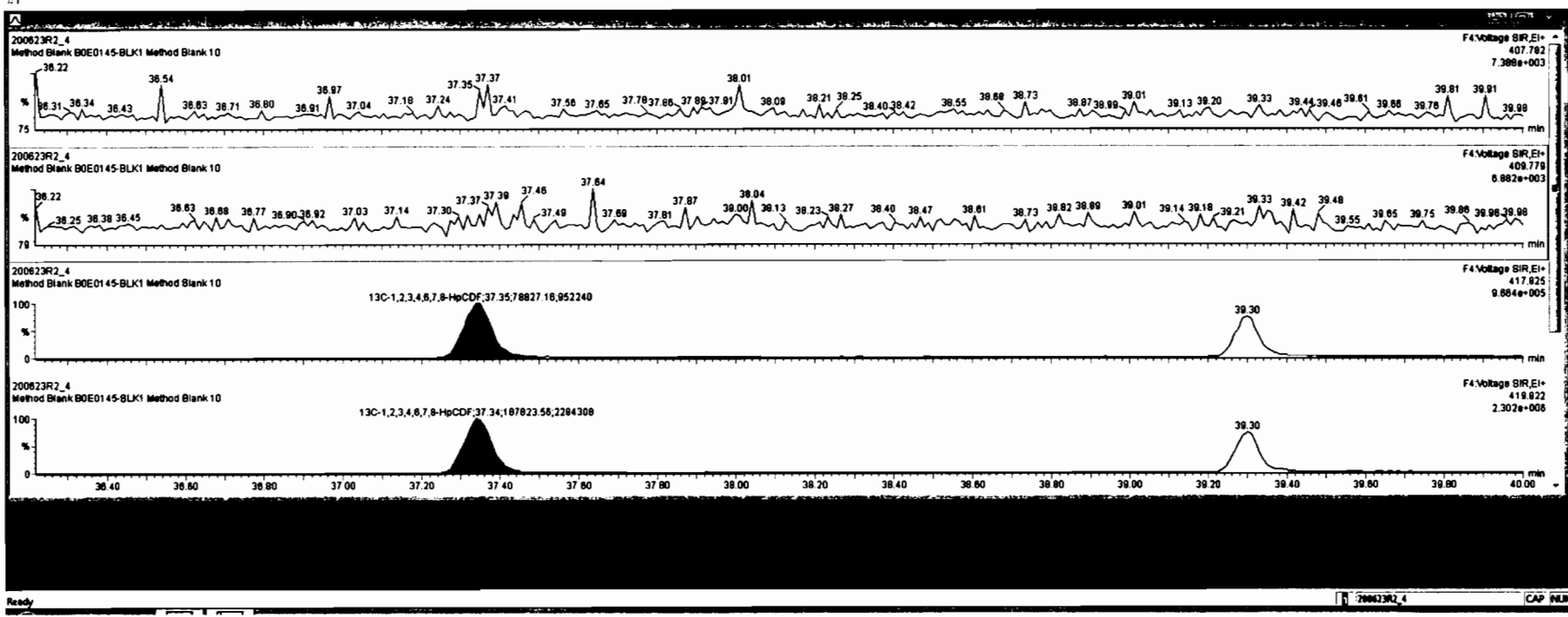


DPE4



Peak	Name	Area	Height	Width	RT	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
43	Total Tetra-Furans				0.7510	10.000	23.61							0.0236
44	1st Func. Penta-Furans				0.8625	10.000	27.58							0.0158
45	Total Penta-Furans				0.8625	10.000	28.27							0.0225
46	Total Hexa-Furans				0.9341	10.000	33.56							0.0423

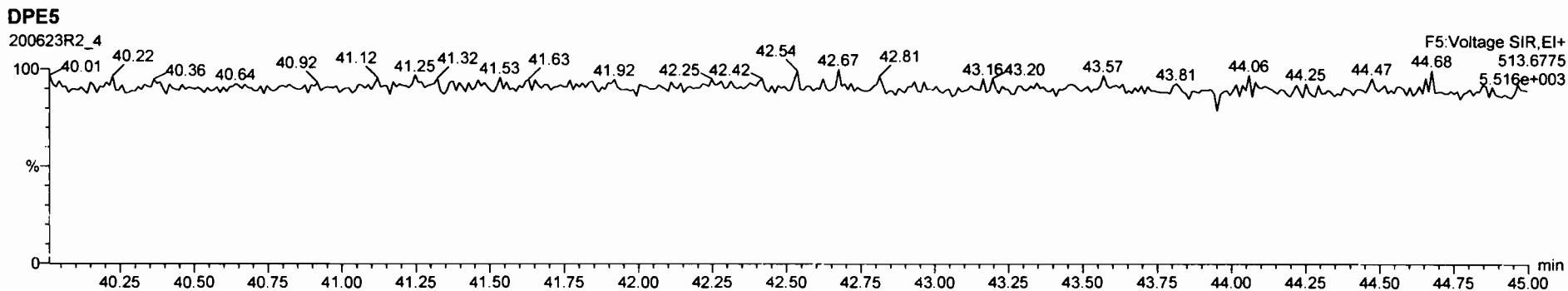
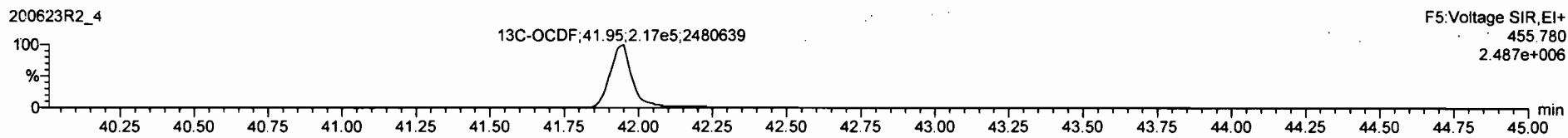
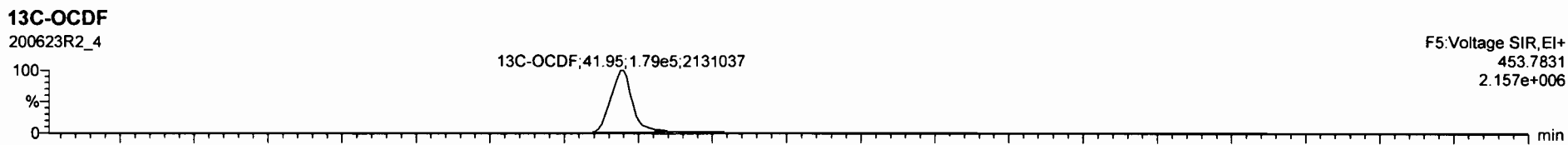
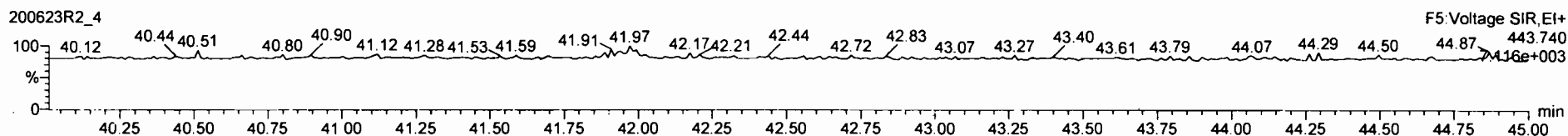
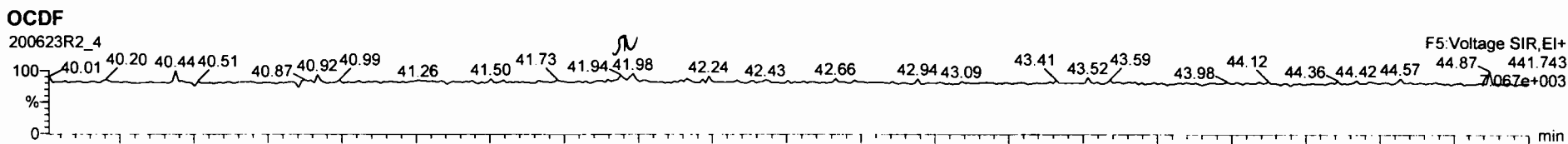
Peak	Name	Area	Height	Width	RT	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
1														

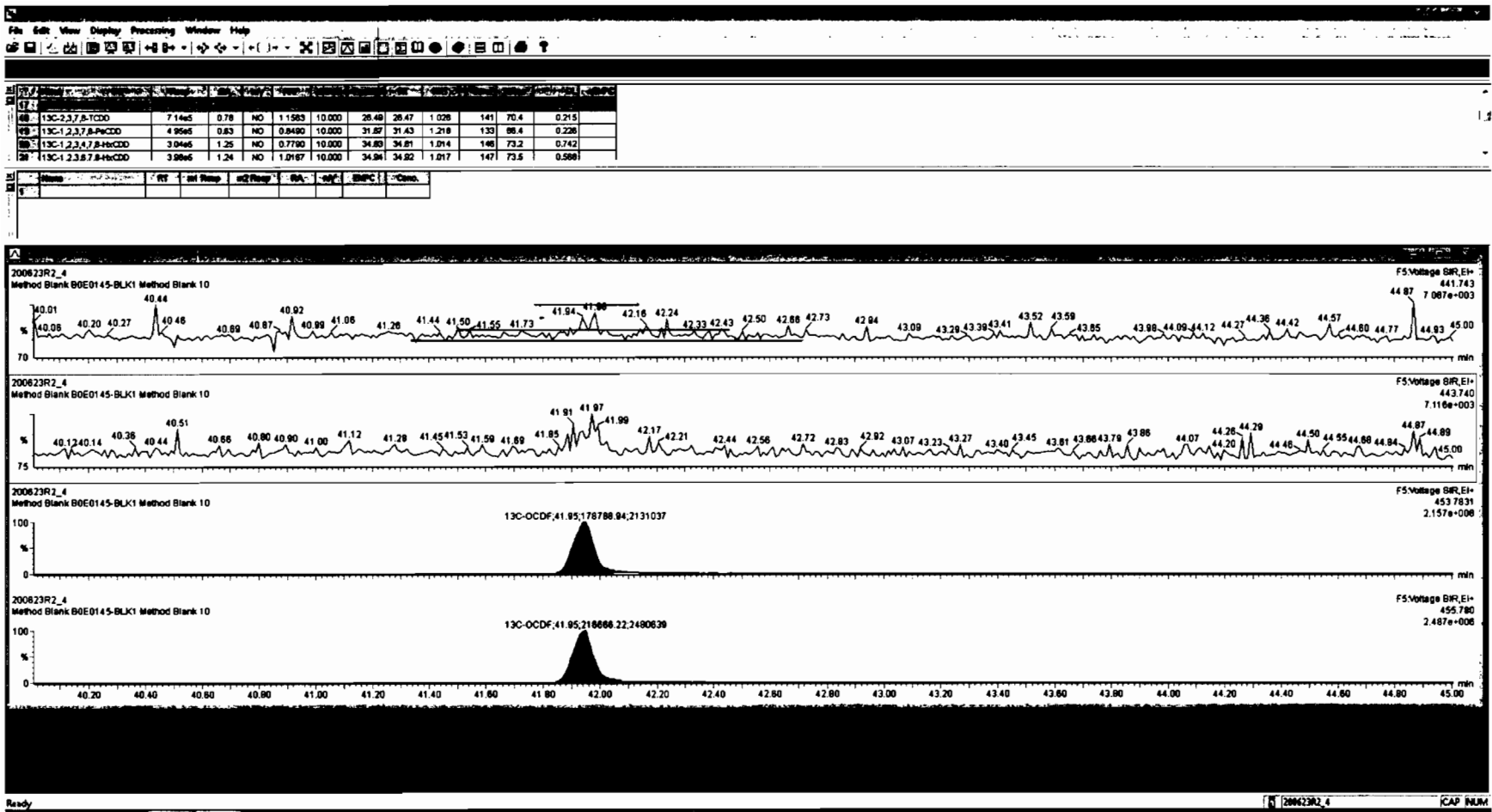


Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank



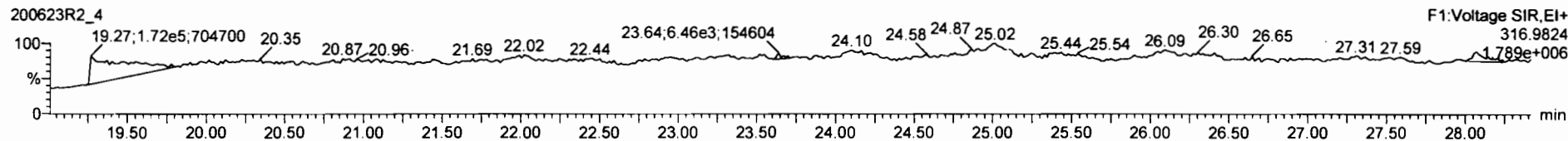


Dataset: Untitled

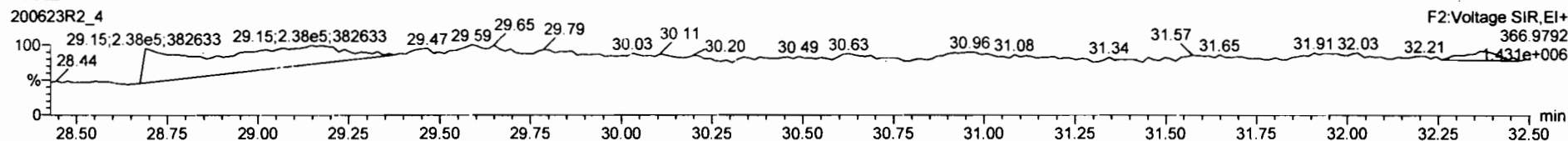
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_4, Date: 23-Jun-2020, Time: 17:24:07, ID: B0E0145-BLK1 Method Blank 10, Description: Method Blank

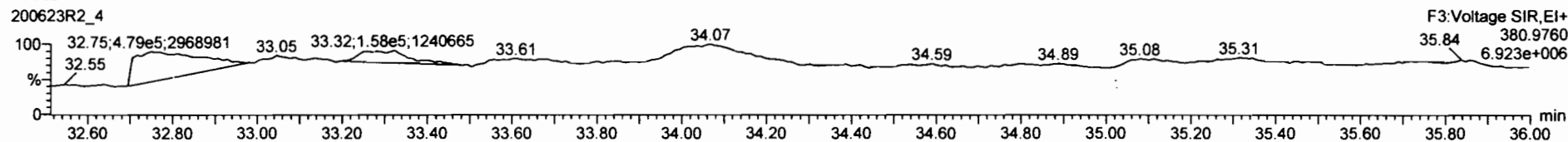
PFK1



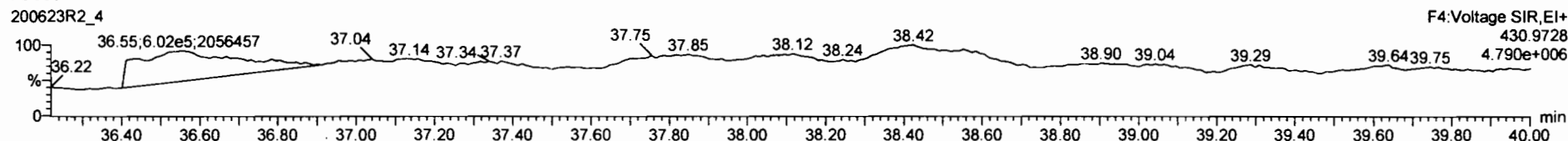
PFK2



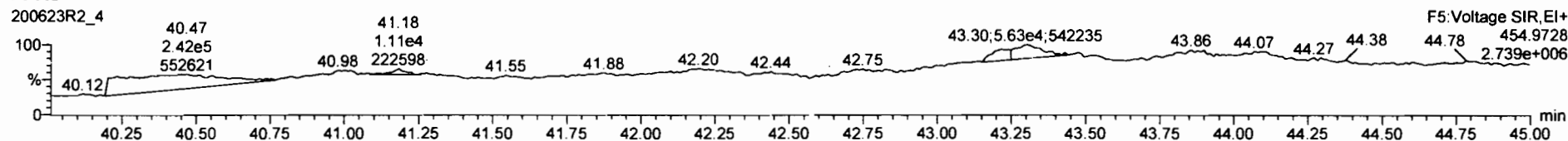
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-2.qld

Last Altered: Wednesday, June 24, 2020 9:50:20 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 9:51:02 AM Pacific Daylight Time

FIN 06/24/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

CT07/17/2020

Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	Ref	Conc.	Ref
1	2,3,7,8-TCDD	5.66e4	0.76	NO	0.888	10.000	26.501	26.48	1.001	1.001	18.018		0.103	18.0
2	1,2,3,7,8-PeCDD	2.08e5	0.63	NO	0.908	10.000	31.457	31.45	1.001	1.000	90.289		0.205	90.3
3	1,2,3,4,7,8-HxCDD	1.43e5	1.23	NO	1.03	10.000	34.824	34.83	1.000	1.000	86.124		0.367	86.1
4	1,2,3,6,7,8-HxCDD	1.85e5	1.26	NO	0.892	10.000	34.921	34.94	1.000	1.001	101.29		0.350	101
5	1,2,3,7,8,9-HxCDD	1.58e5	1.20	NO	0.887	10.000	35.219	35.22	1.000	1.000	94.874		0.394	94.9
6	1,2,3,4,6,7,8-HpCDD	1.06e5	1.01	NO	0.864	10.000	38.767	38.77	1.000	1.000	95.859		0.528	95.9
7	OCDD	1.73e5	0.87	NO	0.914	10.000	41.748	41.76	1.000	1.000	189.95		0.714	190
8	2,3,7,8-TCDF	5.90e4	0.72	NO	0.751	10.000	25.596	25.60	1.001	1.001	19.178	0.0908	19.2	
9	1,2,3,7,8-PeCDF	3.25e5	1.56	NO	0.893	10.000	30.174	30.17	1.001	1.001	92.999		0.246	93.0
10	2,3,4,7,8-PeCDF	3.13e5	1.56	NO	0.935	10.000	31.161	31.15	1.001	1.000	90.809		0.240	90.8
11	1,2,3,4,7,8-HxCDF	1.81e5	1.21	NO	0.884	10.000	33.941	33.96	1.000	1.001	96.453		0.351	96.5
12	1,2,3,6,7,8-HxCDF	2.18e5	1.20	NO	0.889	10.000	34.079	34.08	1.000	1.000	97.860		0.320	97.9
13	2,3,4,6,7,8-HxCDF	1.91e5	1.19	NO	0.934	10.000	34.689	34.67	1.001	1.000	96.915		0.373	96.9
14	1,2,3,7,8,9-HxCDF	1.46e5	1.21	NO	0.871	10.000	35.570	35.58	1.000	1.000	95.104		0.559	95.1
15	1,2,3,4,6,7,8-HpCDF	1.33e5	1.00	NO	0.873	10.000	37.386	37.36	1.001	1.000	100.82		0.471	101
16	1,2,3,4,7,8,9-HpCDF	9.53e4	1.00	NO	1.01	10.000	39.298	39.31	1.000	1.000	101.70		0.561	102
17	OCDF	1.86e5	0.86	NO	0.806	10.000	41.929	41.94	1.000	1.000	191.56		0.455	192
18	13C-2,3,7,8-TCDD	7.07e5	0.79	NO	1.16	10.000	26.491	26.47	1.026	1.026	158.31	79.2	0.293	
19	13C-1,2,3,7,8-PeCDD	5.07e5	0.63	NO	0.849	10.000	31.674	31.43	1.227	1.218	154.49	77.2	0.336	
20	13C-1,2,3,4,7,8-HxCDD	3.20e5	1.26	NO	0.779	10.000	34.819	34.81	1.014	1.014	166.86	83.4	0.539	
21	13C-1,2,3,6,7,8-HxCDD	4.09e5	1.25	NO	1.02	10.000	34.932	34.92	1.017	1.017	163.30	81.6	0.413	
22	13C-1,2,3,7,8,9-HxCDD	3.76e5	1.26	NO	0.903	10.000	35.204	35.21	1.025	1.025	168.96	84.5	0.465	
23	13C-1,2,3,4,6,7,8-HpCDD	2.55e5	1.06	NO	0.689	10.000	38.726	38.76	1.128	1.129	150.44	75.2	0.585	
24	13C-OCDD	3.99e5	0.87	NO	0.652	10.000	41.748	41.75	1.216	1.216	248.38	62.1	0.744	
25	13C-2,3,7,8-TCDF	8.20e5	0.76	NO	1.06	10.000	25.534	25.57	0.989	0.991	131.20	65.6	0.319	
26	13C-1,2,3,7,8-PeCDF	7.83e5	1.60	NO	0.838	10.000	30.058	30.15	1.165	1.168	158.36	79.2	0.550	
27	13C-2,3,4,7,8-PeCDF	7.37e5	1.57	NO	0.817	10.000	31.011	31.13	1.202	1.206	152.92	76.5	0.564	
28	13C-1,2,3,4,7,8-HxCDF	4.24e5	0.50	NO	1.01	10.000	33.950	33.94	0.989	0.989	170.97	85.5	0.838	
29	13C-1,2,3,6,7,8-HxCDF	5.02e5	0.51	NO	1.17	10.000	34.074	34.07	0.992	0.992	174.65	87.3	0.723	
30	13C-2,3,4,6,7,8-HxCDF	4.23e5	0.51	NO	1.02	10.000	34.647	34.65	1.009	1.009	167.99	84.0	0.826	
31	13C-1,2,3,7,8,9-HxCDF	3.53e5	0.50	NO	0.860	10.000	35.547	35.57	1.035	1.036	166.64	83.3	0.982	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-2.qld

Last Altered: Wednesday, June 24, 2020 9:50:20 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 9:51:02 AM Pacific Daylight Time

Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Prod.RT	RT	Prod.RRT	RRT	Dens		
32	13C-1,2,3,4,6,7,8-HpCDF	3.02e5	0.42	NO	0.774	10.000	37.295	37.35	1.086	1.088	158.47	79.2	0.700
33	13C-1,2,3,4,7,8,9-HpCDF	1.85e5	0.44	NO	0.521	10.000	39.324	39.30	1.145	1.145	144.23	72.1	1.04
34	13C-OCDF	4.80e5	0.87	NO	0.746	10.000	41.920	41.93	1.221	1.221	261.55	65.4	0.616
35	37Cl-2,3,7,8-TCDD	2.76e5			1.04	10.000	26.522	26.48	1.028	1.026	68.808	86.0	0.0609
36	13C-1,2,3,4-TCDD	7.73e5	0.79	NO	1.00	10.000	25.890	25.81	1.000	1.000	200.00	100	0.339
37	13C-1,2,3,4-TCDF	1.18e6	0.78	NO	1.00	10.000	24.360	24.13	1.000	1.000	200.00	100	0.338
38	13C-1,2,3,4,6,9-HxCDF	4.93e5	0.51	NO	1.00	10.000	34.420	34.33	1.000	1.000	200.00	100	0.844

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-2.qld

Last Altered: Wednesday, June 24, 2020 9:50:20 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 9:51:02 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Tetra-Dioxins	26.21	6.724e3	8.110e3	3.722e2	8.485e2	0.44	YES	0.000e0	0.00000	0.27244	0.103
2,3,7,8-TCDD	26.48	3.554e5	4.732e5	2.436e4	3.223e4	0.76	NO	5.659e4	18.018	18.018	0.103

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1,2,3,7,8-PeCDD	31.45	1.438e6	2.319e6	7.989e4	1.278e5	0.63	NO	2.077e5	90.289	90.289	0.205

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1,2,3,4,7,8-HxCDD	34.83	1.317e6	1.098e6	7.853e4	6.397e4	1.23	NO	1.425e5	86.124	86.124	0.367
1,2,3,6,7,8-HxCDD	34.94	1.396e6	1.119e6	1.031e5	8.175e4	1.26	NO	1.848e5	101.29	101.29	0.350
1,2,3,7,8,9-HxCDD	35.22	1.221e6	1.014e6	8.625e4	7.184e4	1.20	NO	1.581e5	94.874	94.874	0.394

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Hepta-Dioxins	37.76	7.191e3	6.309e3	5.874e2	3.361e2	1.75	YES	0.000e0	0.00000	0.62131	0.528
1,2,3,4,6,7,8-HpCDD	38.77	6.450e5	6.476e5	5.303e4	5.274e4	1.01	NO	1.058e5	95.859	95.859	0.528

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
2,3,7,8-TCDF	25.60	3.334e5	4.657e5	2.474e4	3.428e4	0.72	NO	5.903e4	19.178	19.178	0.0908

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
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Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-2.qld

Last Altered: Wednesday, June 24, 2020 9:50:20 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 9:51:02 AM Pacific Daylight Time

Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,7,8-PeCDF	30.17	3.352e6	2.145e6	1.978e5	1.271e5	1.56	NO	3.249e5	92.999	92.999	0.246
Total Penta-Furans	30.40	1.736e4	1.539e4	1.515e3	8.485e2	1.79	YES	0.000e0	0.00000	0.63811	0.249
2,3,4,7,8-PeCDF	31.15	3.495e6	2.297e6	1.907e5	1.220e5	1.56	NO	3.127e5	90.809	90.809	0.240
Total Penta-Furans	32.08	1.569e4	7.529e3	6.711e2	2.859e2	2.35	YES	0.000e0	0.00000	0.21502	0.249

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,4,7,8-HxCDF	33.96	1.779e6	1.422e6	9.920e4	8.182e4	1.21	NO	1.810e5	96.453	96.453	0.351
1,2,3,6,7,8-HxCDF	34.08	1.917e6	1.616e6	1.192e5	9.925e4	1.20	NO	2.185e5	97.860	97.860	0.320
2,3,4,6,7,8-HxCDF	34.67	1.640e6	1.394e6	1.042e5	8.725e4	1.19	NO	1.914e5	96.915	96.915	0.373
1,2,3,7,8,9-HxCDF	35.58	1.119e6	9.193e5	7.994e4	6.617e4	1.21	NO	1.461e5	95.104	95.104	0.559

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.36	8.170e5	7.775e5	6.662e4	6.651e4	1.00	NO	1.331e5	100.82	100.82	0.471
1,2,3,4,7,8,9-HpCDF	39.31	6.753e5	6.551e5	4.778e4	4.757e4	1.00	NO	9.535e4	101.70	101.70	0.561

Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

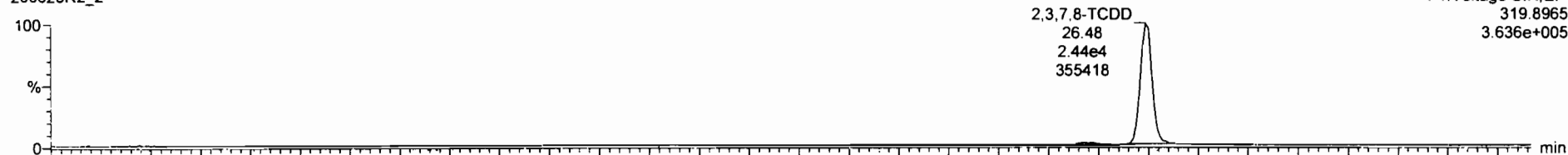
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

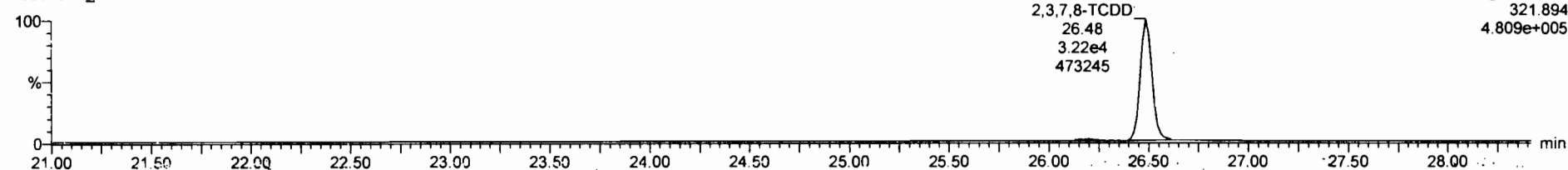
2,3,7,8-TCDD

200623R2_2



F1:Voltage SIR,EI+
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3.636e+005

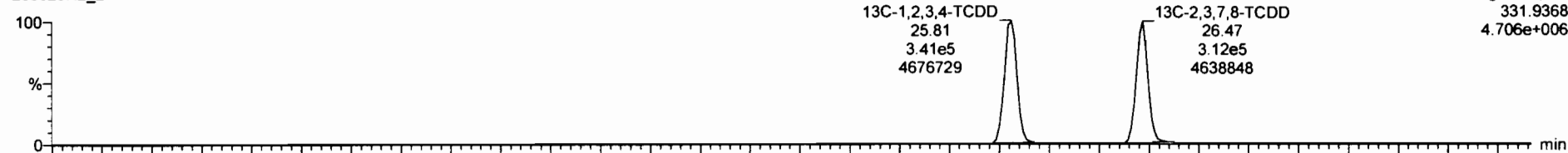
200623R2_2



F1:Voltage SIR,EI+
321.894
4.809e+005

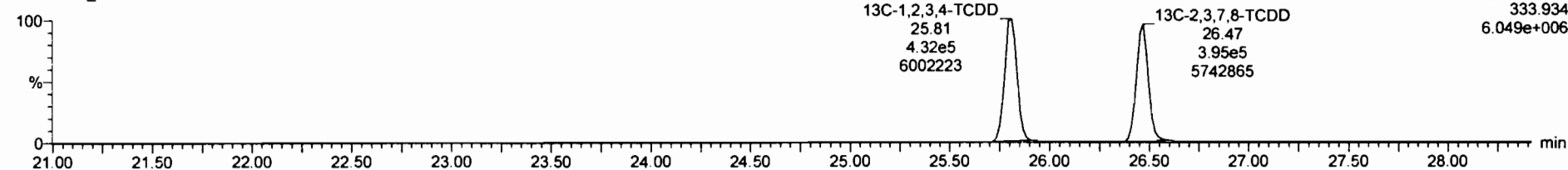
13C-2,3,7,8-TCDD

200623R2_2



F1:Voltage SIR,EI+
331.9368
4.706e+006

200623R2_2



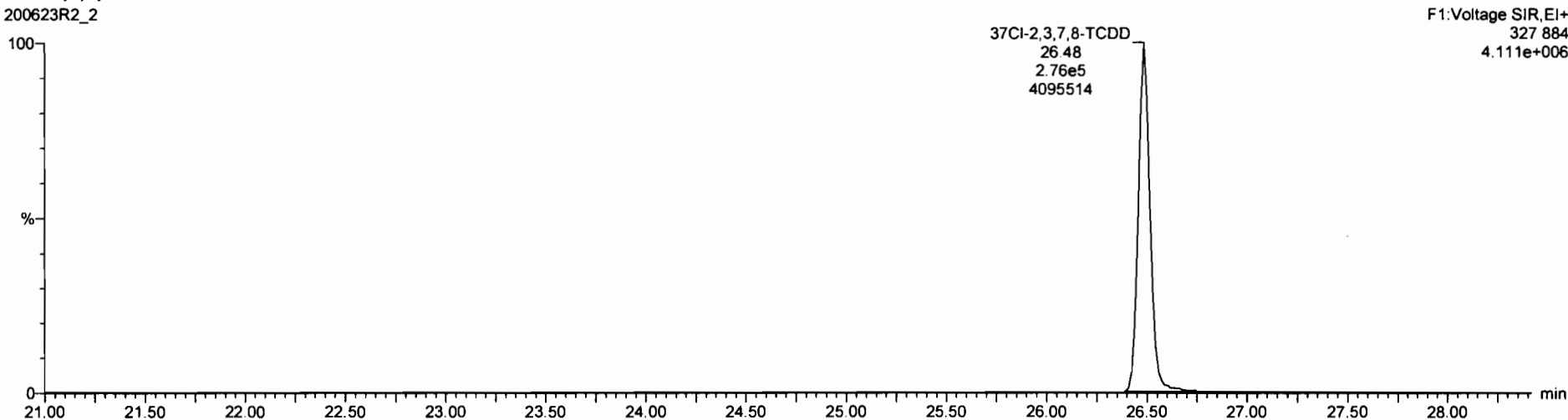
F1:Voltage SIR,EI+
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6.049e+006

Dataset: Untitled

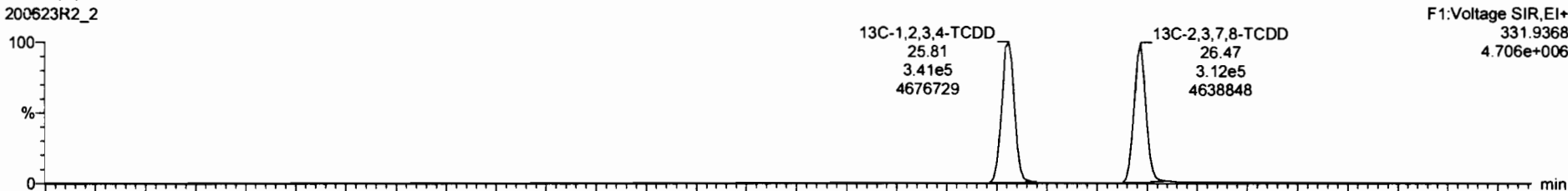
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Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

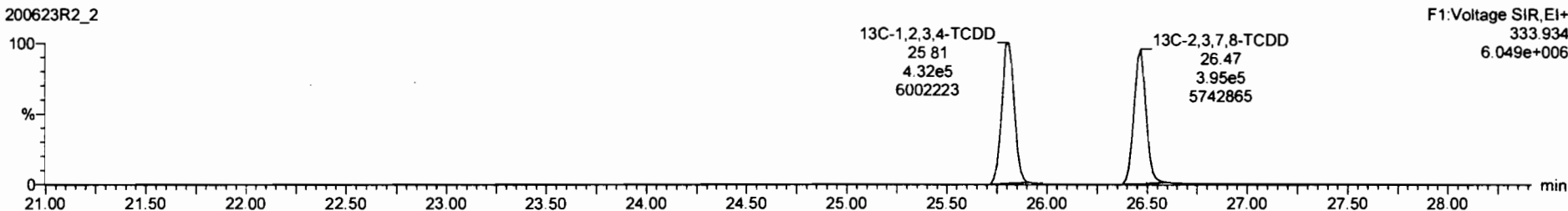
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200623R2_2



13C-1,2,3,4-TCDD
200623R2_2



200623R2_2



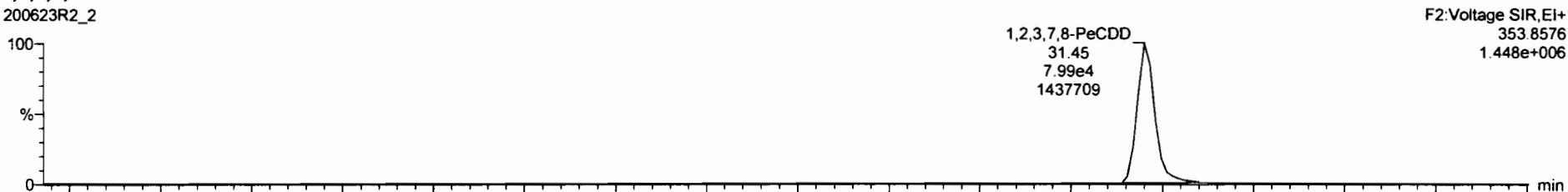
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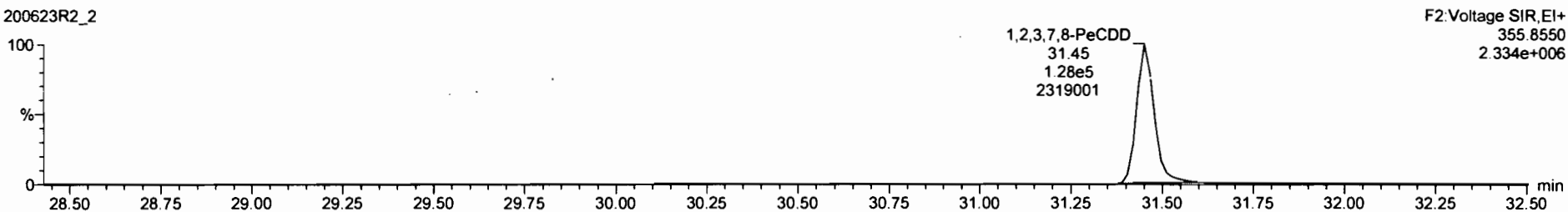
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1,2,3,7,8-PeCDD

200623R2_2

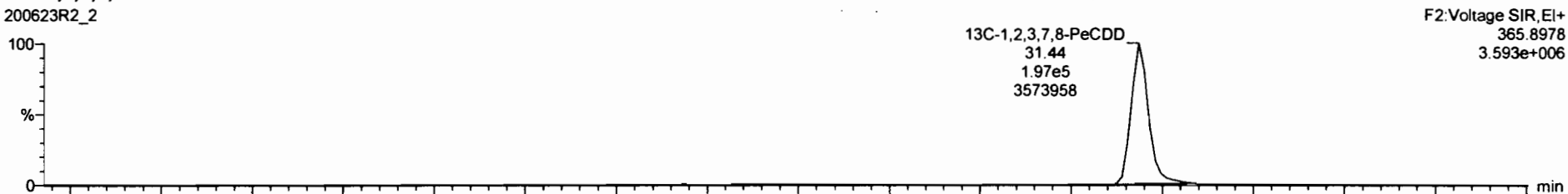


200623R2_2

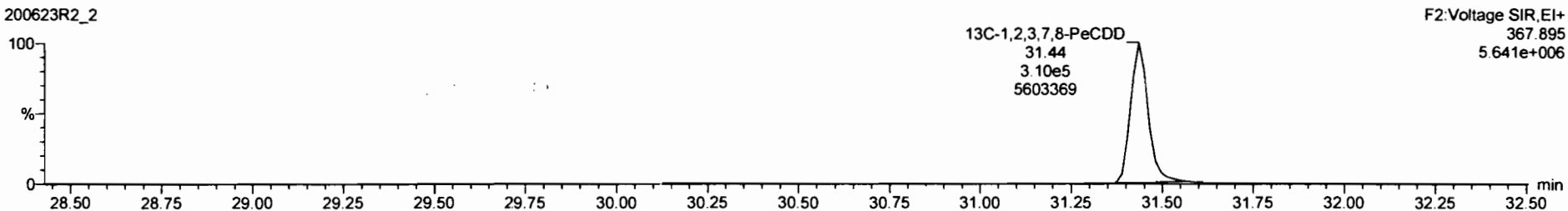


13C-1,2,3,7,8-PeCDD

200623R2_2



200623R2_2



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

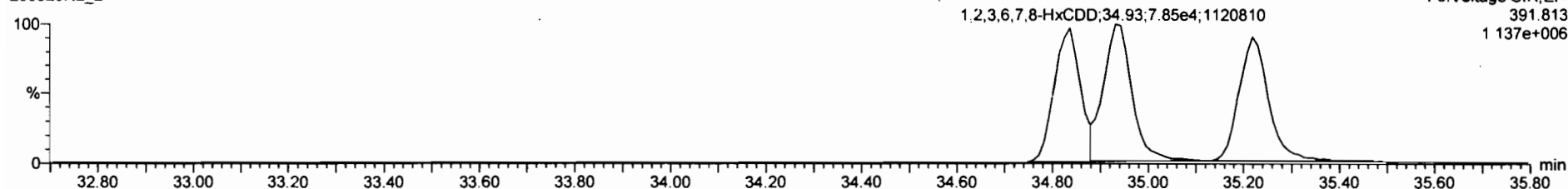
Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

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

200623R2_2



200623R2_2

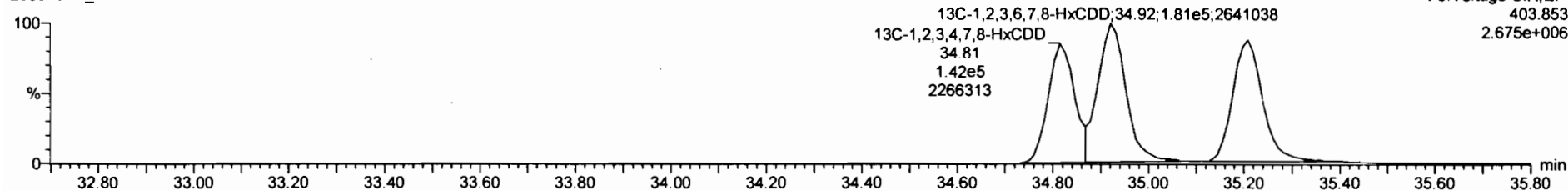


13C-1,2,3,4,7,8-HxCDD

200623R2_2



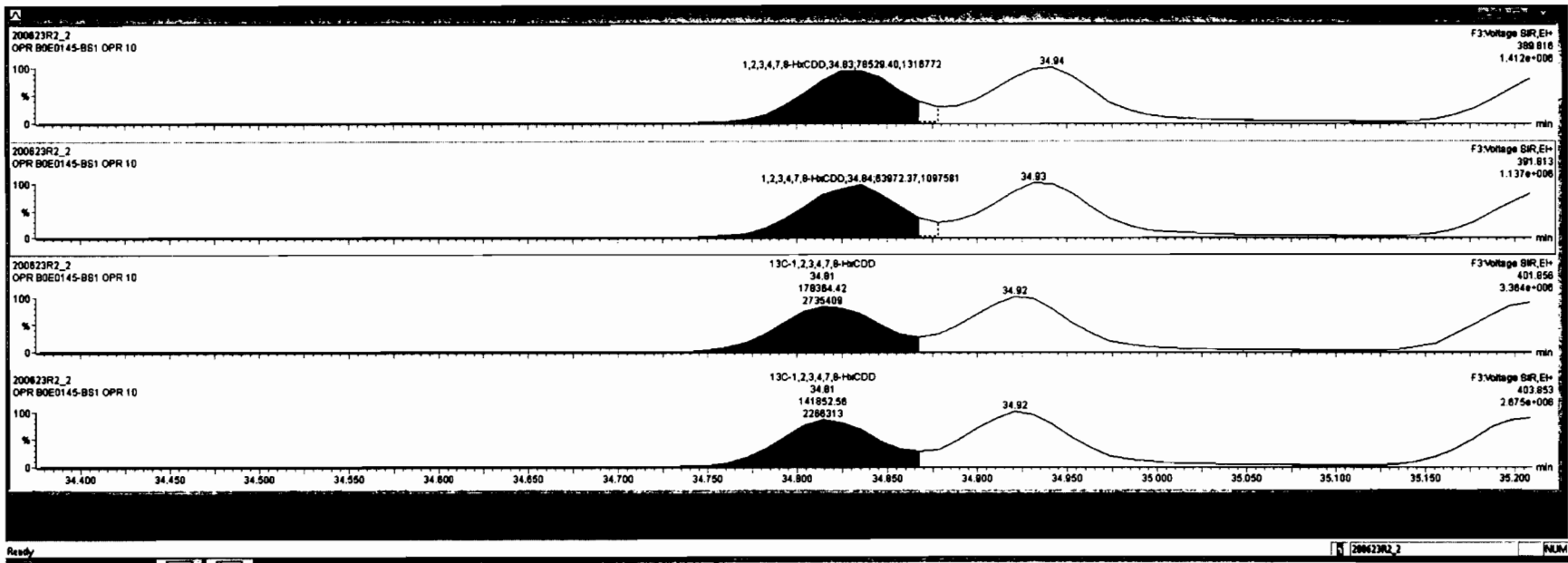
200623R2_2

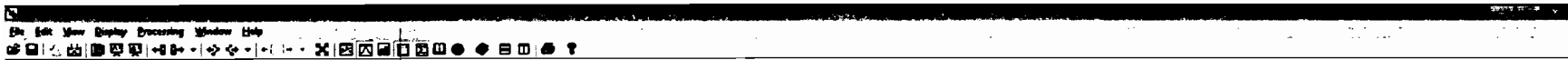




Peak	Retention Time	Area	Height	Width	Resolution	Signal	Baseline	Integration	Integration	Integration	Integration	Integration	Integration
1	23.78	5.86e4	0.78	NO	0.9883	10.000	28.50	28.40	1.001	18.0		0.103	18.0
2	1,2,3,7,8-PeCDD	2.00e5	0.83	NO	0.9001	10.000	31.48	31.45	1.000	80.3		0.206	80.3
3	1,2,3,6,7,8-HxCDD	1.85e5	1.28	NO	0.9823	10.000	34.82	34.84	1.001	101		0.350	101
4	1,2,3,7,8-HxCDD	1.59e5	1.20	NO	0.8880	10.000	36.23	36.22	1.000	94.8		0.304	94.8
5	1,2,3,4,6,7,8-HxCDD	1.08e5	1.03	NO	0.8836	10.000	38.77	38.77	1.000	88.2		0.528	88.2
6	OCDD	1.75e5	0.88	NO	0.9136	10.000	41.75	41.78	1.000	182		0.714	182
7	1,2,3,7,8-TCDF	5.82e4	0.73	NO	0.7510	10.000	25.80	25.80	1.001	18.8		0.0808	18.8

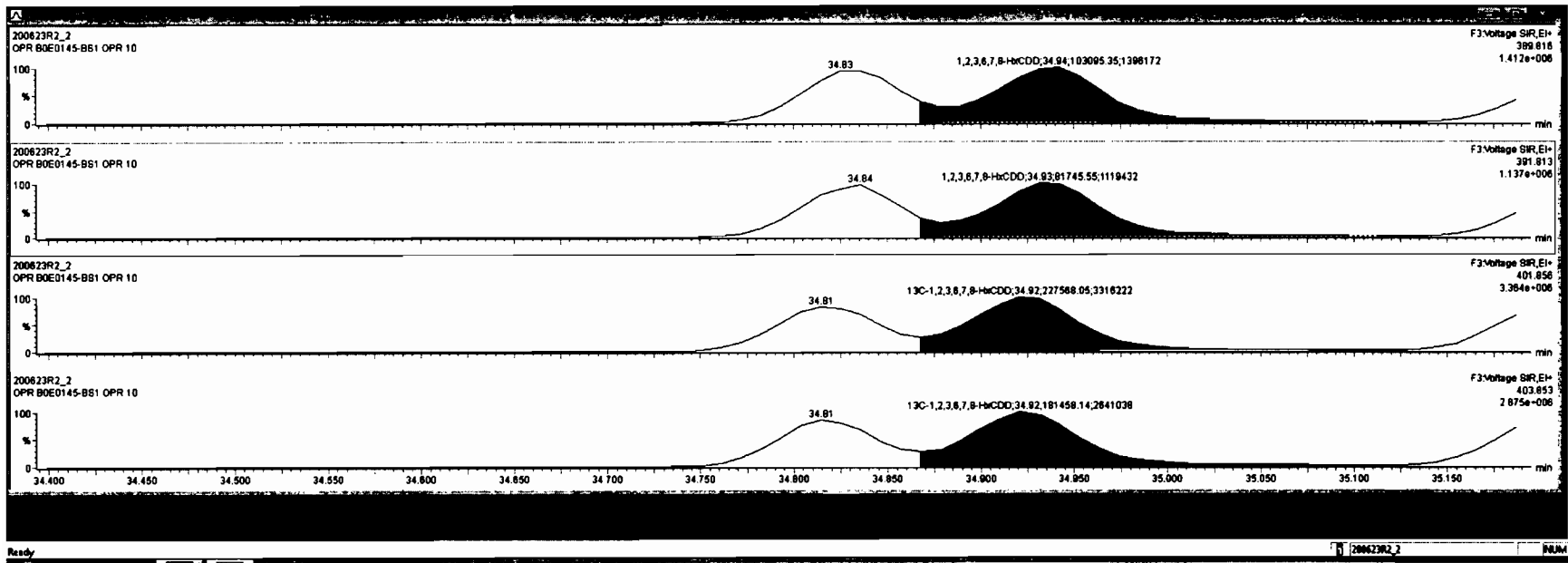
Name	RT	Int. Resp.	Int. Resp.	Int. Resp.	Int. Resp.	Int. Resp.	Int. Resp.	Int. Resp.	Int. Resp.

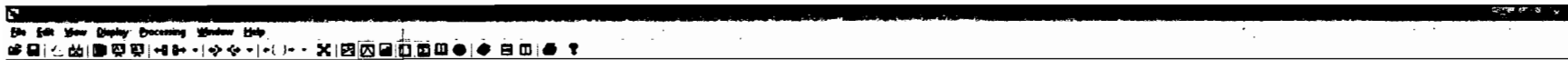




SP	Name	Comp	Rel. 2	Rel. 1	Rel. 0	Passes	Rel. 2	Rel. 1	Rel. 0	Rel. 2	Rel. 1	Rel. 0	Rel. 2	Rel. 1	Rel. 0	Rel. 2	Rel. 1	Rel. 0
1	2,3,7,8-TCDD	5.86e4	0.78	NO	0.8883	10.000	28.50	28.40	1.001	19.0			0.103	182				
2	1,2,3,7,8-PeCDD	2.09e5	0.83	NO	0.9091	10.000	31.46	31.45	1.000	80.3			0.205	803				
3	1,2,3,4,7,8-HxCDD	1.43e5	1.23	NO	1.0334	10.000	34.82	34.83	1.000	86.1			0.387	861				
4	1,2,3,7,8,9-HxCDD	1.59e5	1.20	NO	0.8880	10.000	35.22	35.22	1.000	94.8			0.384	94.8				
5	1,2,3,4,6,7,8-HpCDD	1.05e5	1.03	NO	0.8639	10.000	38.77	38.77	1.000	98.2			0.528	98.2				
6	OCDD	1.75e5	0.88	NO	0.9136	10.000	41.75	41.78	1.000	182			0.714	182				
7	2,3,7,8-TCDF	5.62e4	0.73	NO	0.7510	10.000	25.88	25.80	1.001	18.9			0.0808	18.9				

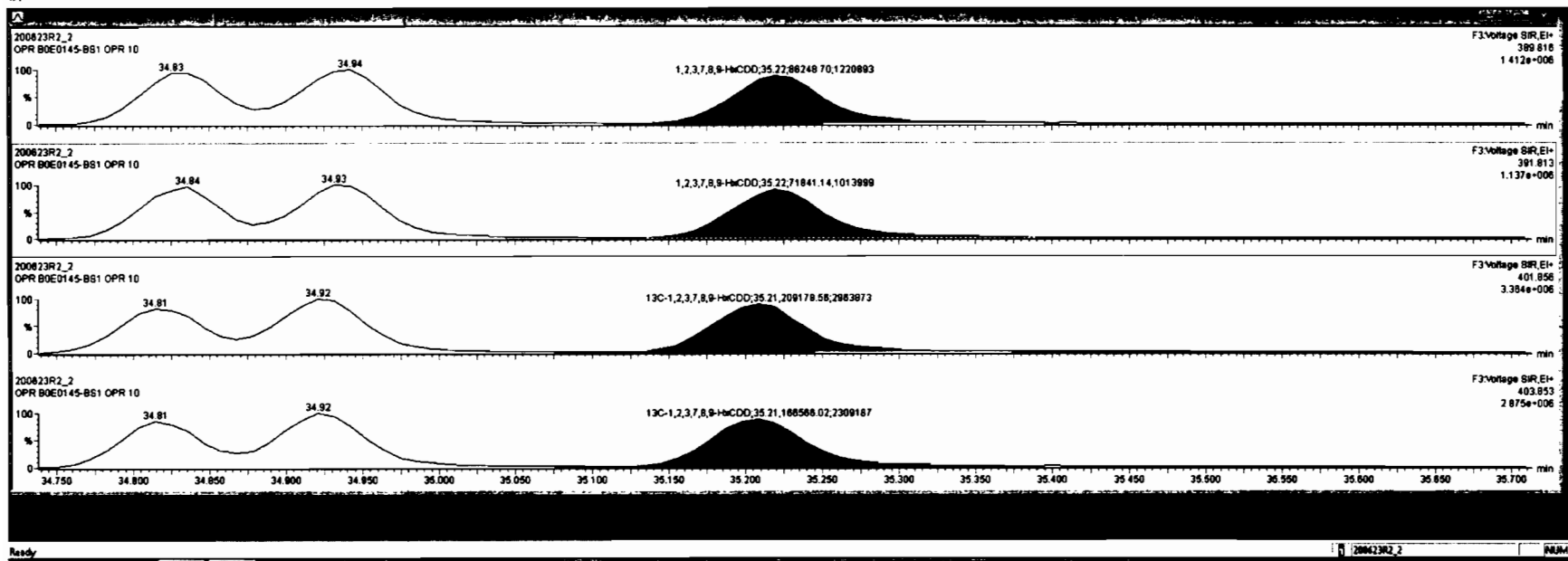
Name	CV	rel Resp	rel Resp	PA	rel	SLPC	Cont.





Name	Comp	MP	Comp	MP	Cal	Cal	Cal	Cal	Cal	Cal	Cal	
1 1,2,3,7,8-TCDD	5.88e4	0.78	NO	0.8883	10.000	28.50	28.48	1.001	18.0		0.103	18.0
2 1,2,3,7,8-PeCDD	2.08e5	0.83	NO	0.9081	10.000	31.46	31.45	1.000	80.3		0.265	80.3
3 1,2,3,4,7,8-HxCDD	1.43e5	1.23	NO	1.0334	10.000	34.82	34.83	1.000	86.1		0.367	86.1
4 1,2,3,6,7,8-HxCDD	1.85e5	1.28	NO	0.8623	10.000	34.82	34.84	1.001	101		0.360	101
5 1,2,3,4,8,9-HxCDD	1.08e5	1.03	NO	0.8638	10.000	38.77	38.77	1.000	98.2		0.528	98.2
6 OCDD	1.75e5	0.88	NO	0.9136	10.000	41.75	41.76	1.000	182		0.714	182
8 1,2,3,7,8-TCDF	5.62e4	0.73	NO	0.7510	10.000	25.80	25.80	1.001	18.9		0.0808	18.9

Name	RT	Int Resp	Int Resp	AA	Adj	EMPC	Comp



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time
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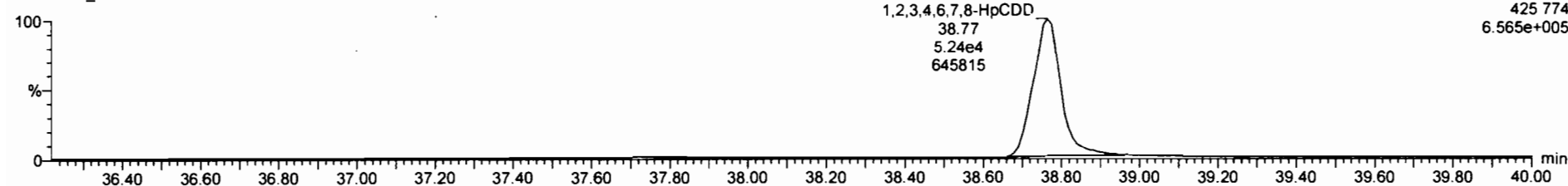
Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

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

200623R2_2



200623R2_2

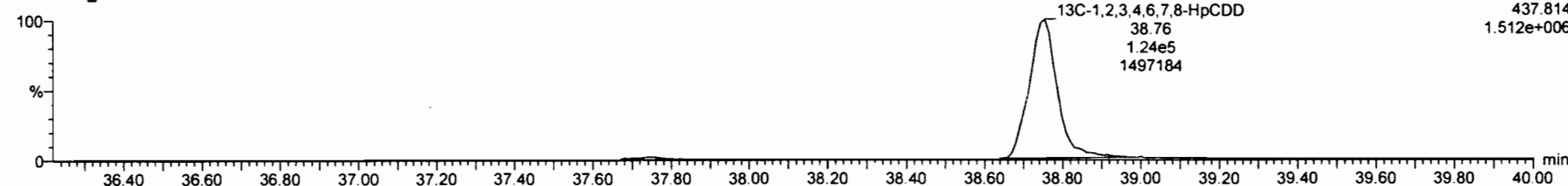


¹³C-1,2,3,4,6,7,8-HpCDD

200623R2_2



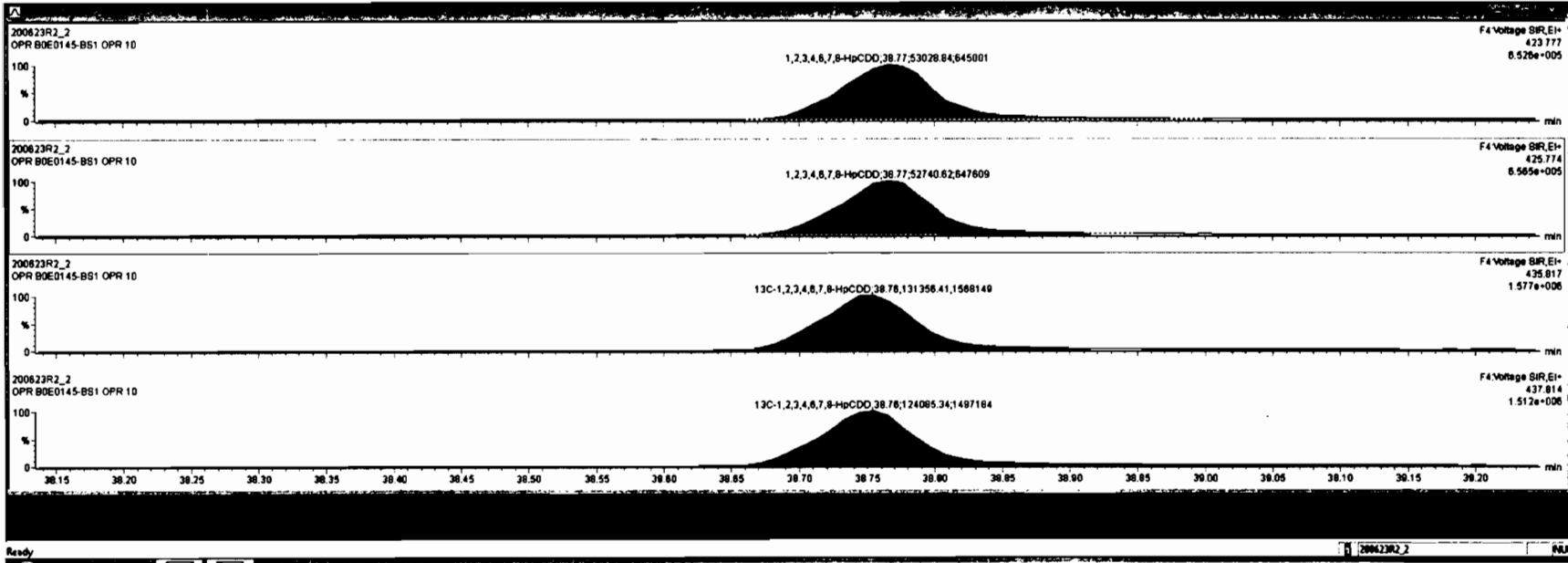
200623R2_2





#	Name	Resp	SN	SP	RP	CP	RP	CP	RP	CP	RP	CP	RP	CP	RP	CP	RP	CP
1	2,3,7,8-TCDF	5.89e4	0.78	NO	0.8823	10.000	28.50	28.45	1.001	18.0			0.103	18.0				
2	1,2,3,7,8-PeCDD	2.08e5	0.83	NO	0.9091	10.000	31.45	31.45	1.000	90.3			0.205	90.3				
3	1,2,3,4,7,8-HxCDD	1.43e5	1.23	NO	1.0234	10.000	34.82	34.83	1.000	86.1			0.387	86.1				
4	1,2,3,6,7,8-HxCDD	1.86e5	1.26	NO	0.8823	10.000	34.82	34.84	1.001	101			0.350	101				
5	1,2,3,7,8-HxCDD	1.58e5	1.20	NO	0.8899	10.000	35.22	35.22	1.000	94.9			0.394	94.9				
6																		
7	OCDD	1.75e5	0.89	NO	0.9138	10.000	41.75	41.76	1.000	192			0.714	192				
8	2,3,7,8-TCDF	5.82e4	0.73	NO	0.7510	10.000	25.80	25.80	1.001	18.9			0.0808	18.9				

#	Name	RT	Int Resp	Ext Resp	RA	Inty	SSPC	Chng
1								



Dataset: Untitled

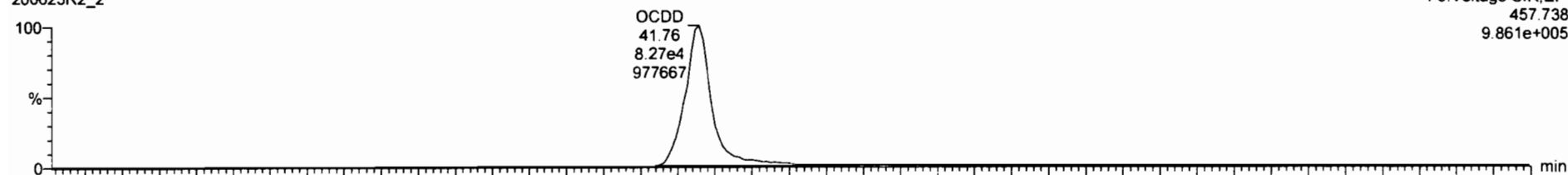
Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

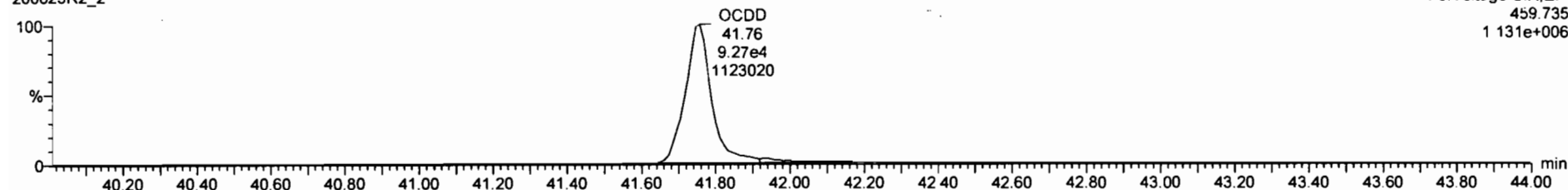
Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

OCDD

200623R2_2

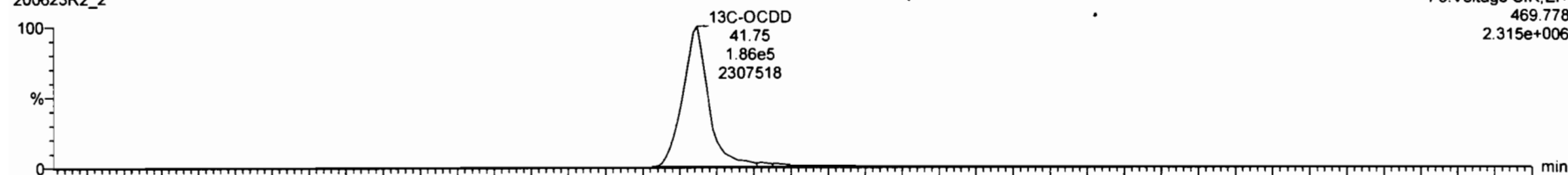


200623R2_2

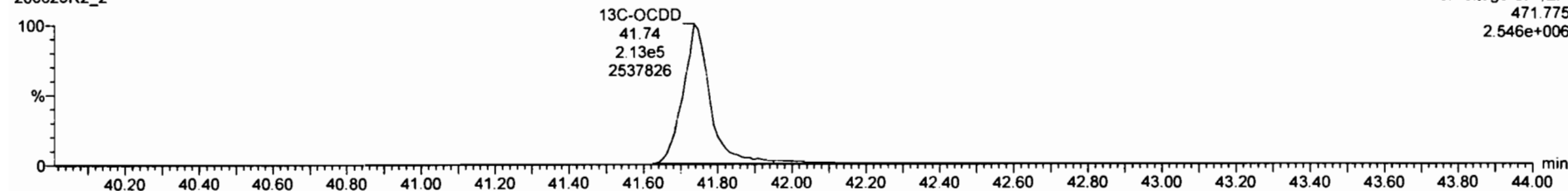


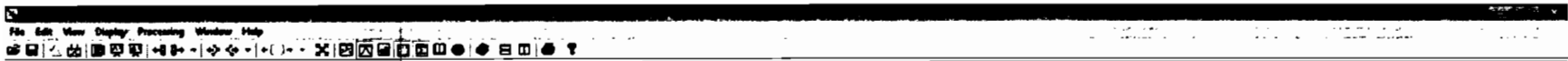
13C-OCDD

200623R2_2



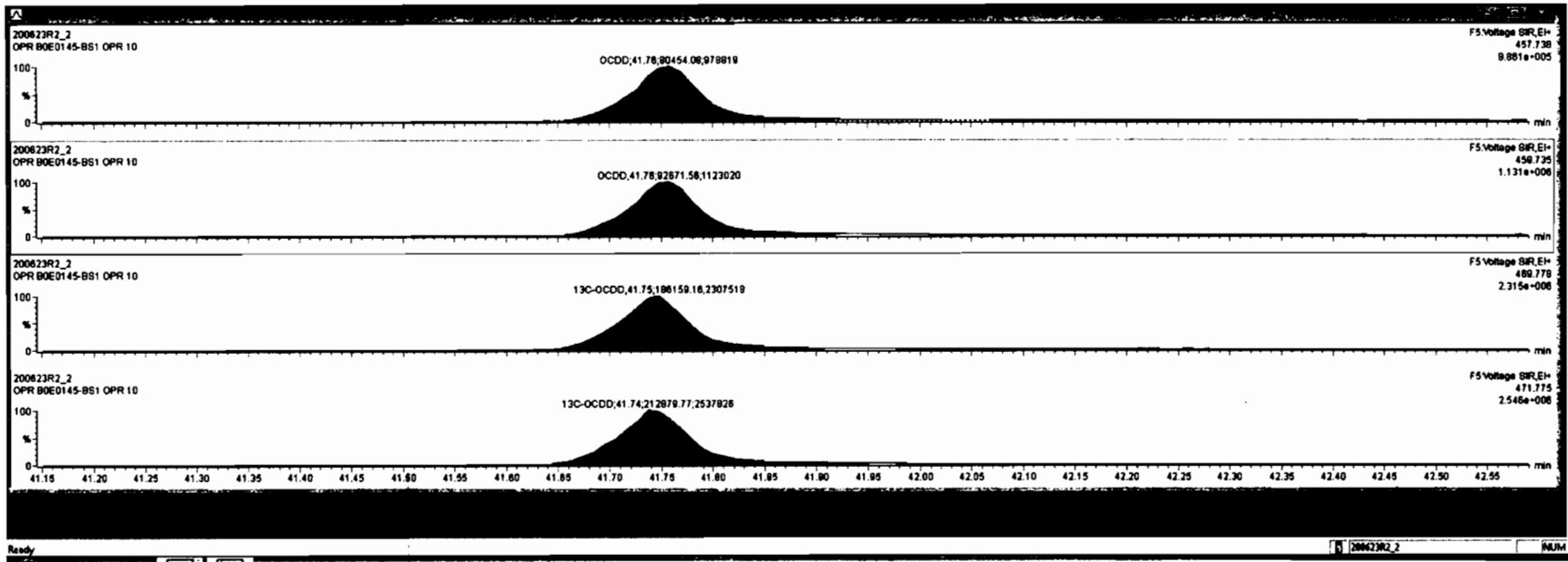
200623R2_2





Peak	Name	RT	Area	Height	W	SN	Integ	Area%	Height%	Area%	Height%	Area%	Height%
1	2,3,7,8-TCDD	5.86e4	0.78	NO	0.8883	10.000	28.50	28.49	1.001	19.0		0.103	19.0
2	1,2,3,7,8-PeCDD	2.05e5	0.83	NO	0.8091	10.000	31.46	31.45	1.000	80.3		0.206	80.3
3	1,2,3,4,7,8-HxCDD	1.43e5	1.23	NO	1.2334	10.000	34.62	34.63	1.000	88.1		0.387	88.1
4	1,2,3,6,7,8-HxCDD	1.85e5	1.28	NO	0.8823	10.000	34.62	34.94	1.001	101		0.360	101
5	1,2,3,7,8,9-HxCDD	1.58e5	1.20	NO	0.8889	10.000	35.22	35.22	1.000	94.9		0.384	94.9
6	1,2,3,4,6,7,8-HpCDD	1.06e5	1.01	NO	0.8638	10.000	38.77	38.77	1.000	95.8		0.529	95.8
7	2,3,7,8-TCDF	5.82e4	0.73	NO	0.7510	10.000	25.80	25.80	1.001	18.9		0.0808	18.9

Peak	Name	RT	Area	Height	W	SN	Integ	Area%	Height%	Area%	Height%



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

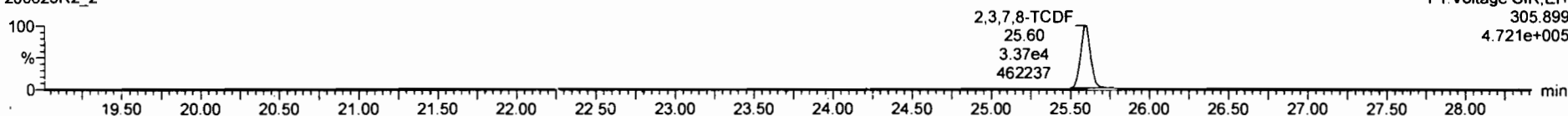
Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

2,3,7,8-TCDF

200623R2_2



200623R2_2

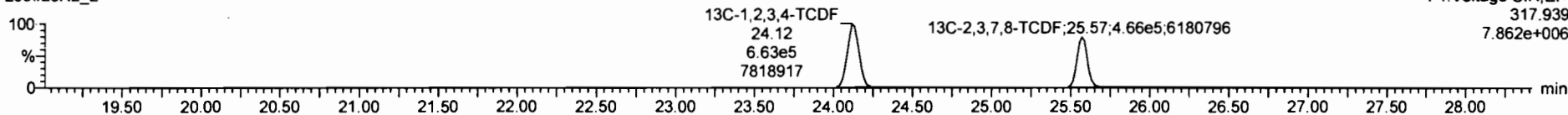


13C-2,3,7,8-TCDF

200623R2_2

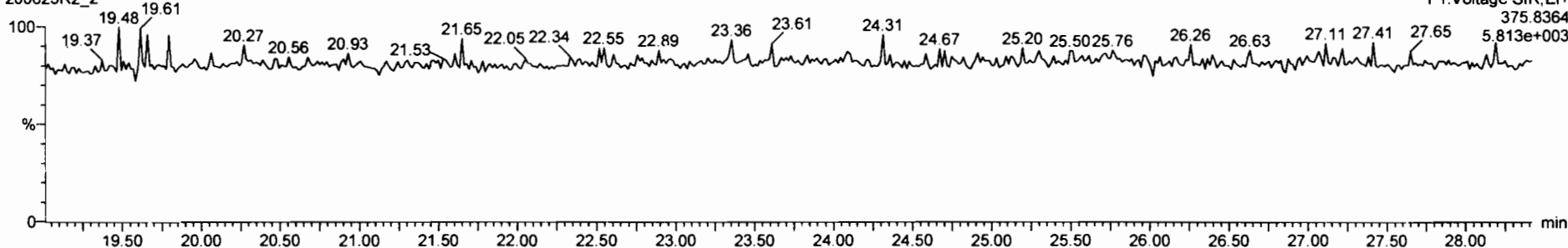


200623R2_2



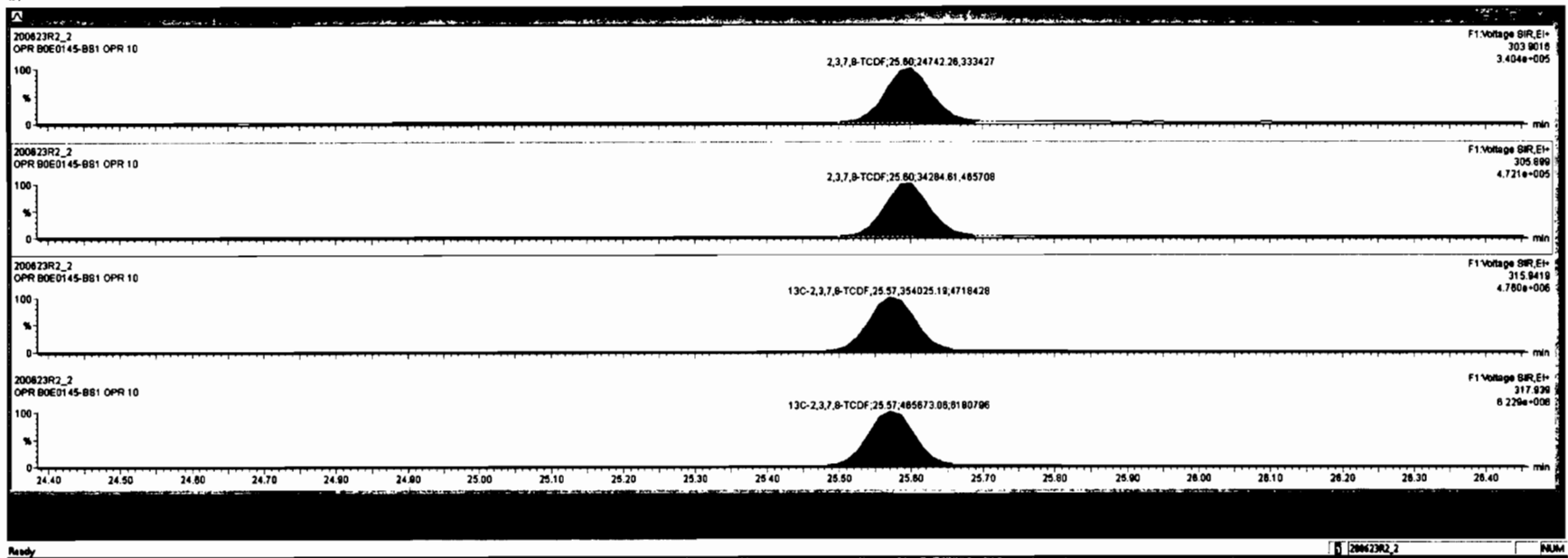
DPE1

200623R2_2



RT	Area	Height	Width	Area%	Height%	RT	Area	Height	Width	Area%	Height%	RT	Area	Height	Width	Area%	Height%
25.50	2.57e4	0.76	NO	0.8963	10.000	26.50	26.46	1.001	18.0		0.103	18.0					
25.50	2.08e5	0.63	NO	0.9091	10.000	31.45	31.45	1.000	80.3		0.295	80.3					
25.50	1.43e5	1.23	NO	1.0234	10.000	34.82	34.83	1.000	88.1		0.387	88.1					
25.50	1.85e5	1.28	NO	0.8923	10.000	34.82	34.84	1.001	101		0.360	101					
25.50	1.58e5	1.20	NO	0.8889	10.000	35.22	35.22	1.000	94.9		0.394	94.9					
25.50	1.08e5	1.01	NO	0.8638	10.000	38.77	38.77	1.000	95.9		0.528	95.9					
25.50	1.72e5	0.87	NO	0.9138	10.000	41.75	41.76	1.000	180		0.714	180					

RT	Area	Height	Width	Area%	Height%	RT	Area	Height	Width	Area%	Height%
25.50											



Dataset: Untitled

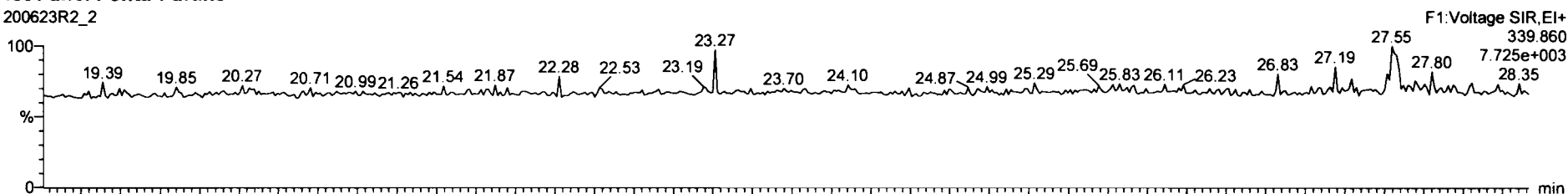
Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

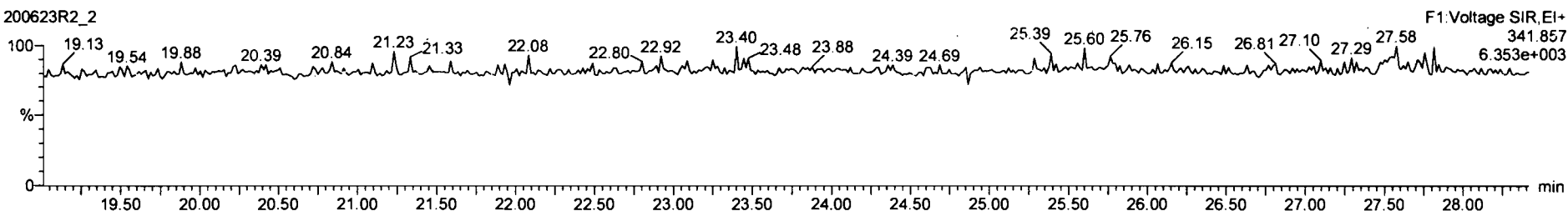
Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans

200623R2_2

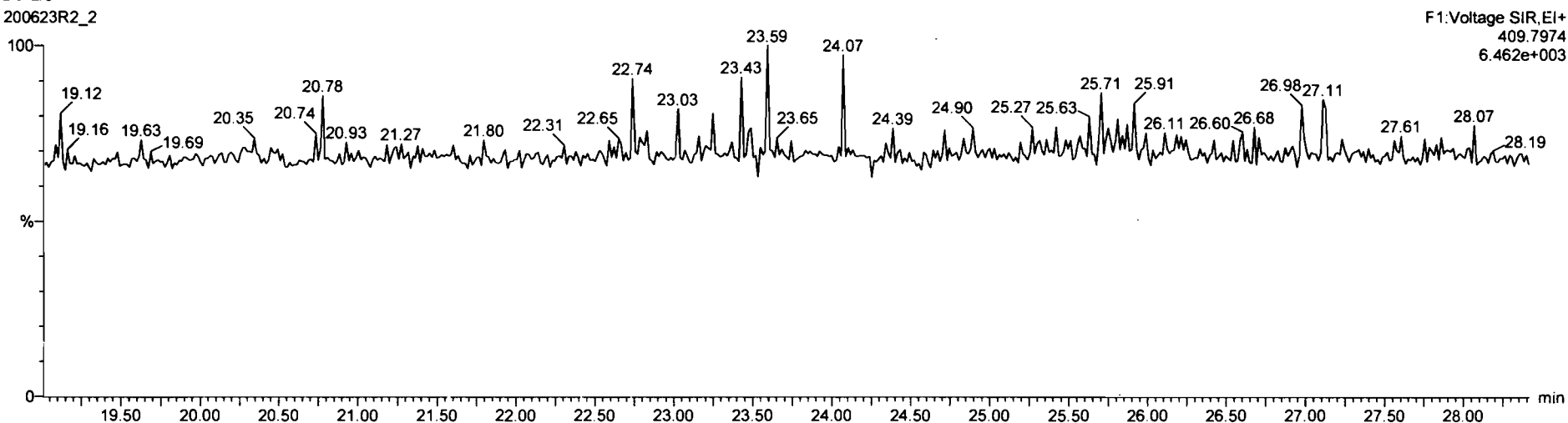


200623R2_2



DPE6

200623R2_2



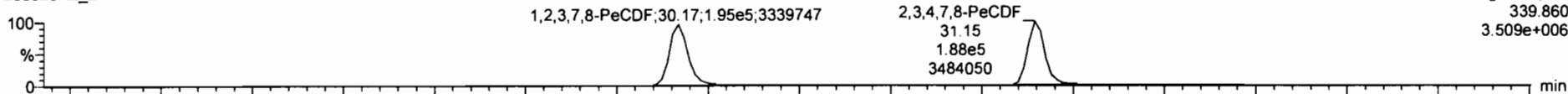
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Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

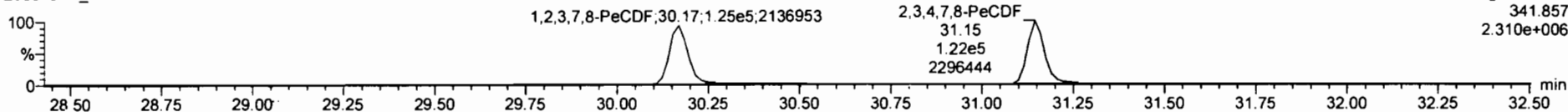
Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDF

200623R2_2

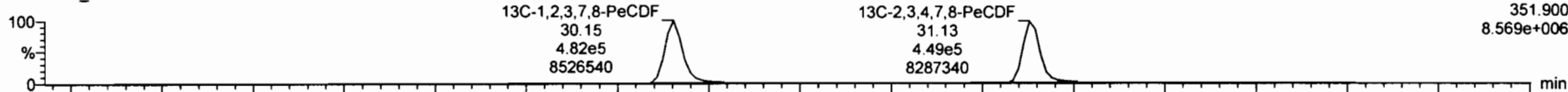


200623R2_2

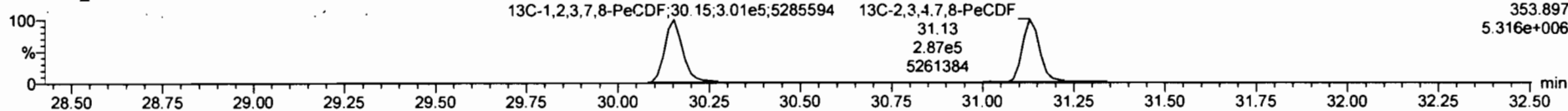


13C-1,2,3,7,8-PeCDF

200623R2_2

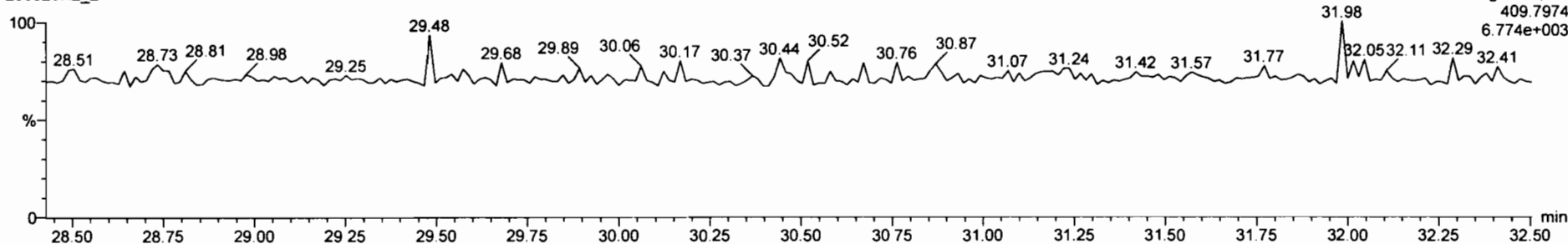


200623R2_2



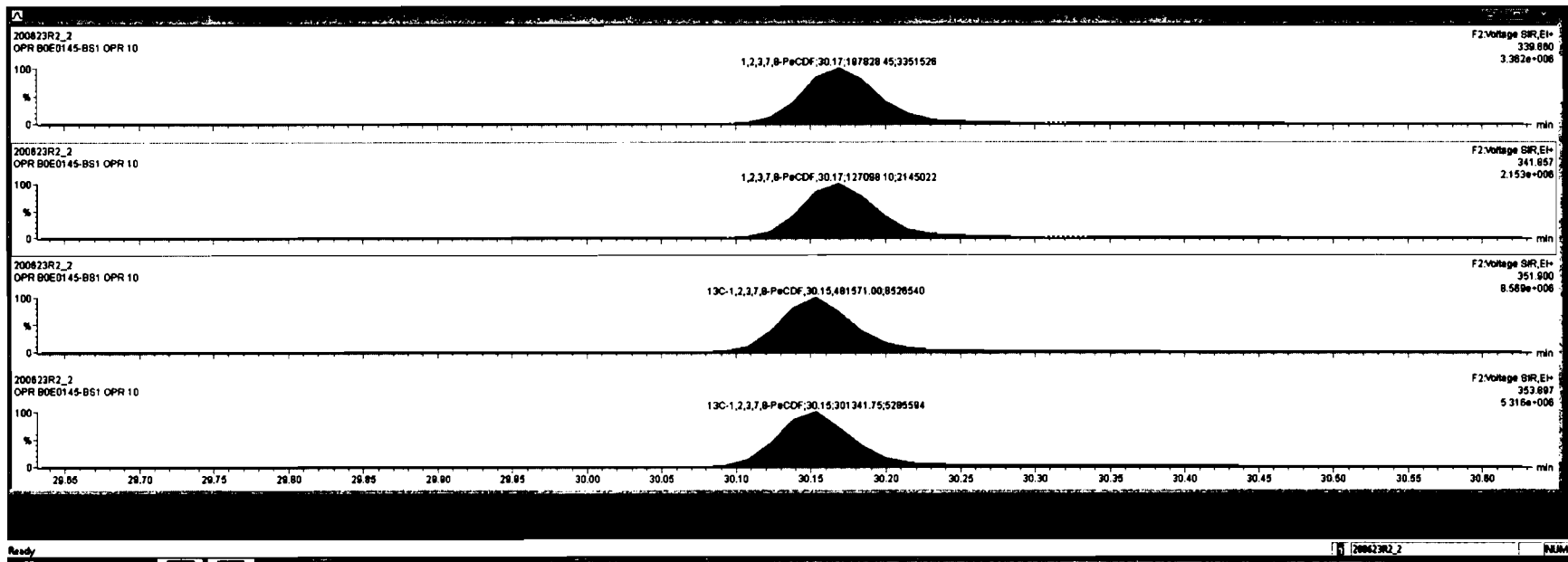
DPE2

200623R2_2



Item	Part	QTY	UOM	Lot	Inv	Cost	Price	Ext	Disc	Net	Tax	Rate	Code
10	1,2,3,7,8-PeCDF	3.10e5	1.54	NO	0.9348	10.000	31.18	31.15	1.000	90.1		0.240	90.1
10	1,2,3,4,7,8-PeCDF	1.85e5	1.21	NO	0.8945	10.000	33.91	33.98	1.001	99.8		0.251	99.8
11	1,2,3,8,7,8-PeCDF	2.14e5	1.20	NO	0.8902	10.000	34.08	34.08	1.000	98.1		0.320	98.1
12	1,2,3,4,8,7,8-PeCDF	1.80e5	1.20	NO	0.9241	10.000	34.80	34.67	1.000	98.0		0.374	98.0
14	1,2,3,7,8,9-PeCDF	1.46e5	1.20	NO	0.8707	10.000	35.57	35.58	1.000	95.2		0.559	95.2
15	1,2,3,4,8,7,8-PeCDF	1.32e5	0.88	NO	0.8734	10.000	37.39	37.38	1.000	98.8		0.471	98.8
19	1,2,3,4,7,8,9-PeCDF	9.50e4	0.97	NO	1.0128	10.000	39.30	39.31	1.000	102		0.581	102

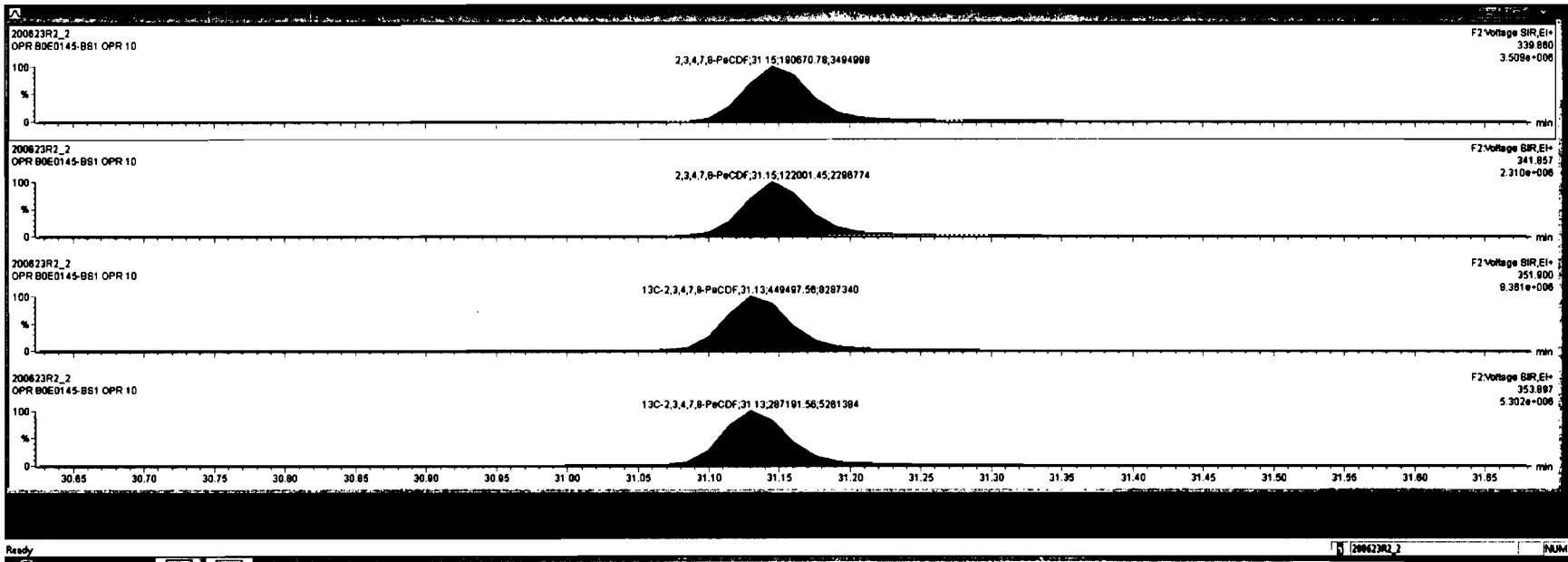
Item	Part	QTY	UOM	Lot	Inv	Cost	Price	Ext	Disc	Net	Tax	Rate	Code
10													





Item	Name	Temp	Unit	NO	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp
8	1,2,3,7,8-PeCDF	3.25e5	1.50	NO	0.0025	10.000	30.17	30.17	1.001	83.0		0.240	83.0
10													
10.1	1,2,3,4,7,8-HxCDF	1.85e5	1.21	NO	0.0045	10.000	33.04	33.06	1.001	98.8		0.351	98.8
10.2	1,2,3,6,7,8-HxCDF	2.14e5	1.20	NO	0.0092	10.000	34.08	34.08	1.000	96.1		0.320	96.1
10.3	1,2,3,6,7,8-HxCDF	1.90e5	1.20	NO	0.0341	10.000	34.08	34.67	1.000	98.0		0.374	98.0
10.4	1,2,3,7,8-HxCDF	1.48e5	1.20	NO	0.0707	10.000	35.57	35.58	1.000	95.2		0.559	95.2
10.5	1,2,3,4,6,7,8-HxCDF	1.32e5	0.98	NO	0.0734	10.000	37.38	37.38	1.000	98.8		0.471	98.8
10.6	1,2,3,4,7,8-HxCDF	9.58e4	0.97	NO	1.0128	10.000	38.38	38.31	1.000	102		0.981	102

Name	RT	of Resp	of Resp	PA	July	SDPC	Conc.



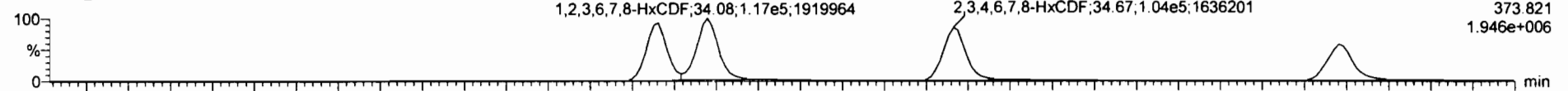
Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

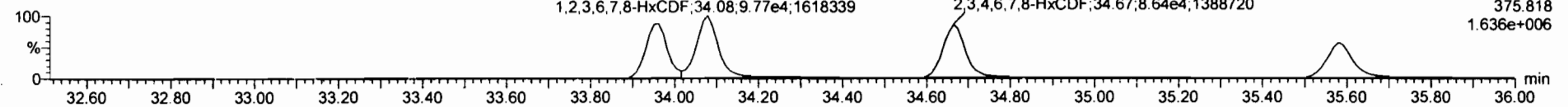
Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

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

200623R2_2

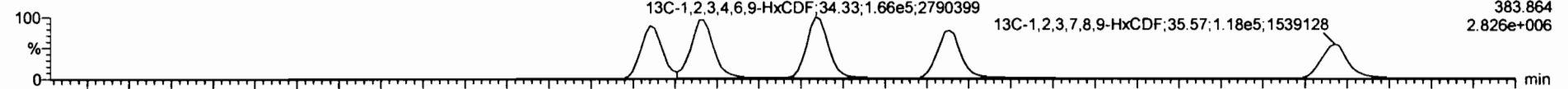


200623R2_2

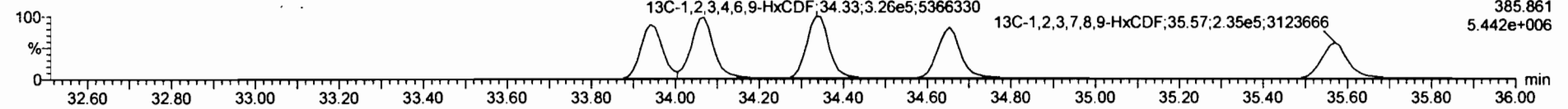


13C-1,2,3,4,7,8-HxCDF

200623R2_2

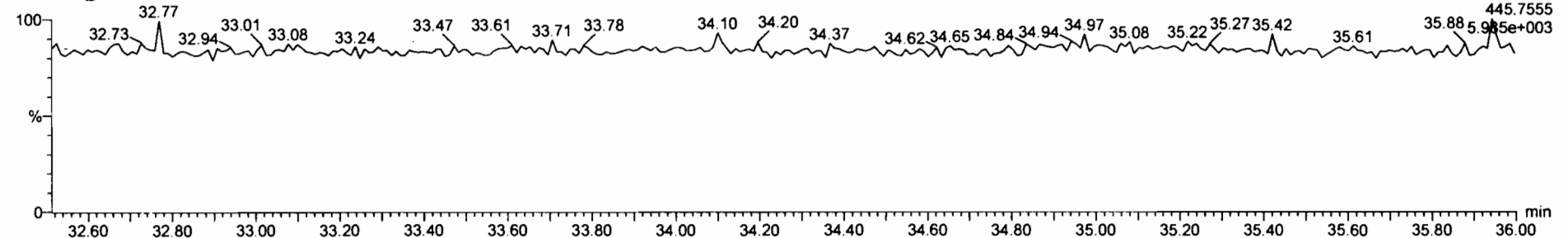


200623R2_2



DPE3

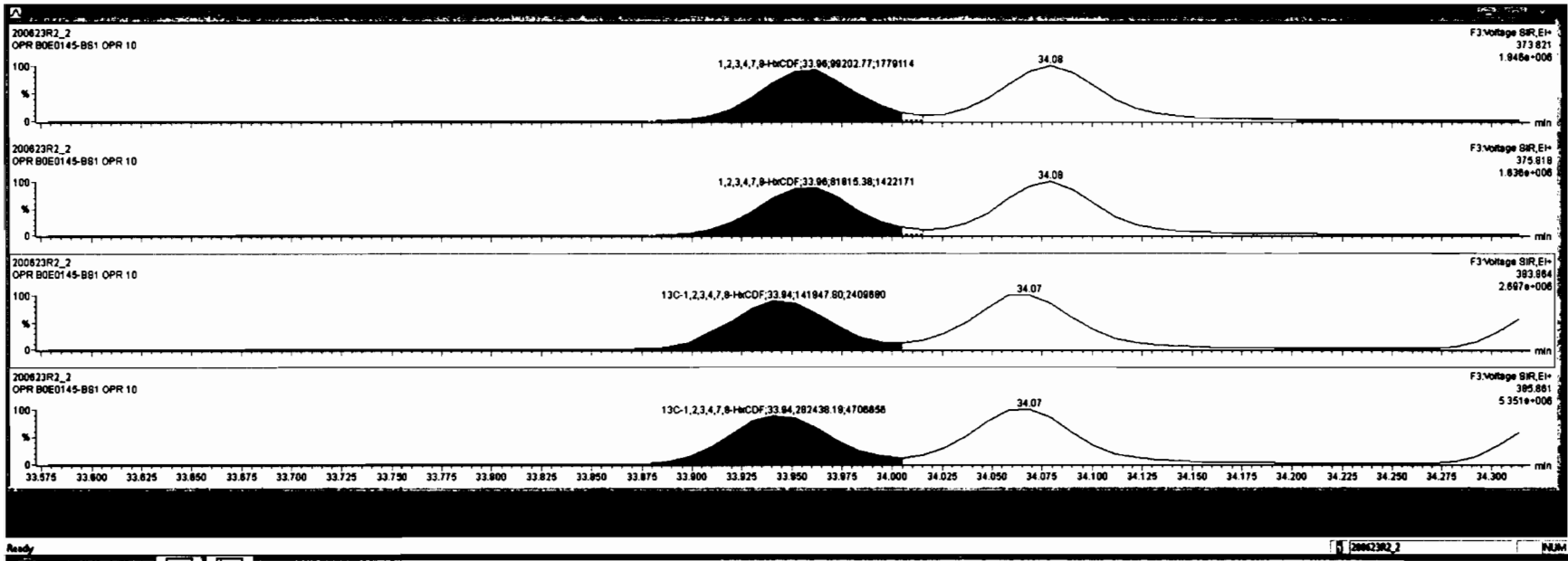
200623R2_2





Peak	RT	Area	Height	Width	Area%	Height%	Area%	Height%	Area%	Height%	
1	3.25e5	1.58	NO	0.8625	10.000	30.17	30.17	1.001	93.0	0.248	93.0
2	3.13e5	1.58	NO	0.8348	10.000	31.18	31.15	1.000	90.8	0.240	90.8
3	2.14e5	1.20	NO	0.8892	10.000	34.08	34.08	1.000	98.1	0.320	98.1
4	1.90e5	1.20	NO	0.8341	10.000	34.88	34.87	1.000	98.0	0.374	98.0
5	1.48e5	1.20	NO	0.8707	10.000	35.57	35.58	1.000	95.2	0.599	95.2
6	1.32e5	0.98	NO	0.8734	10.000	37.38	37.38	1.000	99.8	0.471	99.8
7	9.58e4	0.97	NO	1.0128	10.000	38.30	38.31	1.000	102	0.581	102

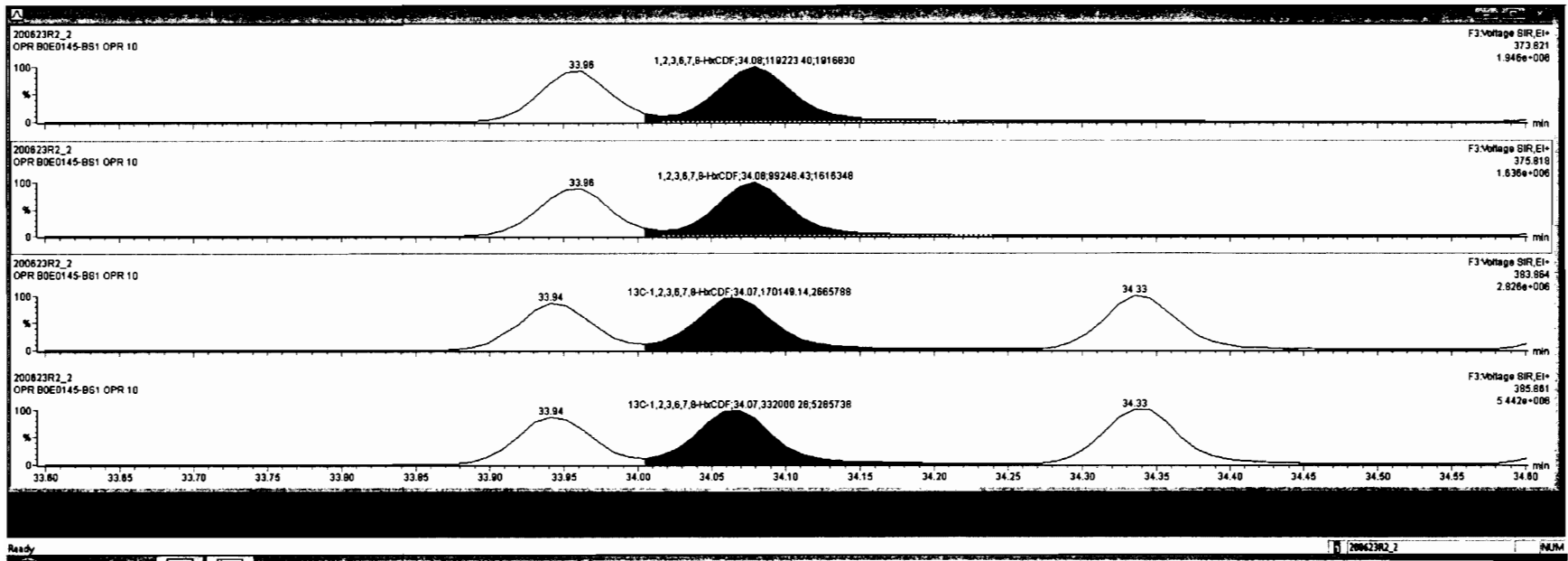
RT	Area	Height	Width	Area%	Height%	Area%	Height%





Sample	Pump	RT	Sp. 1	Flow	Flow	RT	RT	Flow	Flow	Flow	Flow	Flow	Flow	Flow
1	1,2,3,7,8-hxCDF	3.25e5	1.58	NO	0.8625	10.000	30.17	30.17	1.001	83.0		0.246	93.0	
2	1,2,3,4,7,8-hxCDF	3.13e5	1.58	NO	0.8346	10.000	31.16	31.15	1.000	90.8		0.240	90.8	
3	1,2,3,4,7,8-hxCDF	1.81e5	1.21	NO	0.8645	10.000	33.94	33.96	1.001	96.5		0.351	96.5	
4	1,2,3,4,6,7,8-hxCDF	1.90e5	1.20	NO	0.8341	10.000	34.89	34.67	1.000	98.0		0.374	98.0	
5	1,2,3,7,8-hxCDF	1.46e5	1.20	NO	0.8707	10.000	35.57	35.58	1.000	95.2		0.509	95.2	
6	1,2,3,4,6,7,8-hxCDF	1.32e5	0.96	NO	0.8734	10.000	37.36	37.36	1.000	99.8		0.471	99.8	
7	1,2,3,4,7,8-hxCDF	9.59e4	0.97	NO	1.0128	10.000	39.30	39.31	1.000	102		0.561	102	

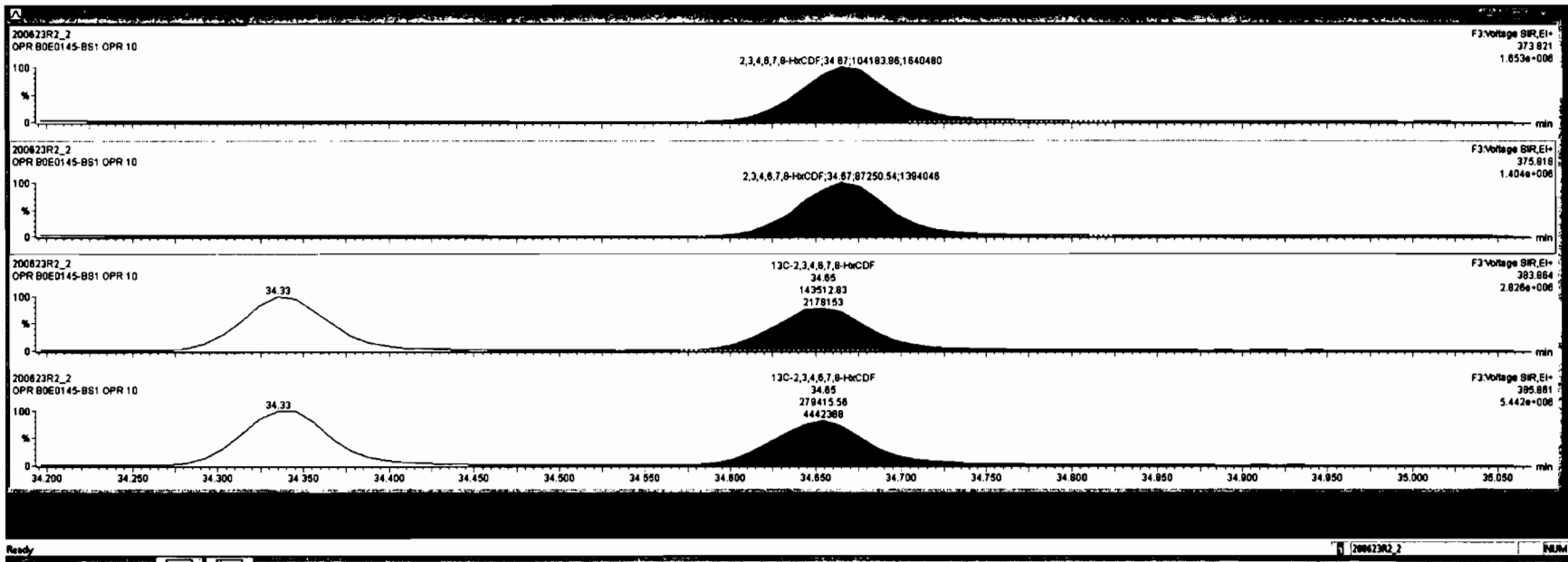
Name	RT	int	Peak	hCDF	RA	July	BMP	Conc.
1								





Sample No.	Sample Name	RT	Std. Dev.	Area	Height	Area%	Height%	Area	Height	Area%	Height%	
8	1,2,3,7,8-HxCDF	3.2565	1.58	NO	0.8925	10.000	30.17	30.17	1.001	83.0	0.248	83.0
9	2,3,4,7,8-HxCDF	3.1365	1.58	NO	0.8348	10.000	31.18	31.15	1.000	89.8	0.240	89.8
10	1,2,3,4,7,8-HxCDF	2.8165	1.21	NO	0.8645	10.000	33.84	33.88	1.001	88.5	0.351	88.5
11	1,2,3,6,7,8-HxCDF	2.1865	1.20	NO	0.8822	10.000	34.08	34.08	1.000	97.9	0.320	97.9
12	1,2,3,7,8-HxCDF	1.4665	1.20	NO	0.8707	10.000	35.57	35.58	1.000	95.2	0.559	95.2
13	1,2,3,4,6,7,8-HxCDF	1.3265	0.88	NO	0.8734	10.000	37.38	37.38	1.000	99.8	0.471	99.8
14	1,2,3,4,7,8-HxCDF	9.5865	0.97	NO	1.0128	10.000	38.30	38.31	1.000	102	0.581	102

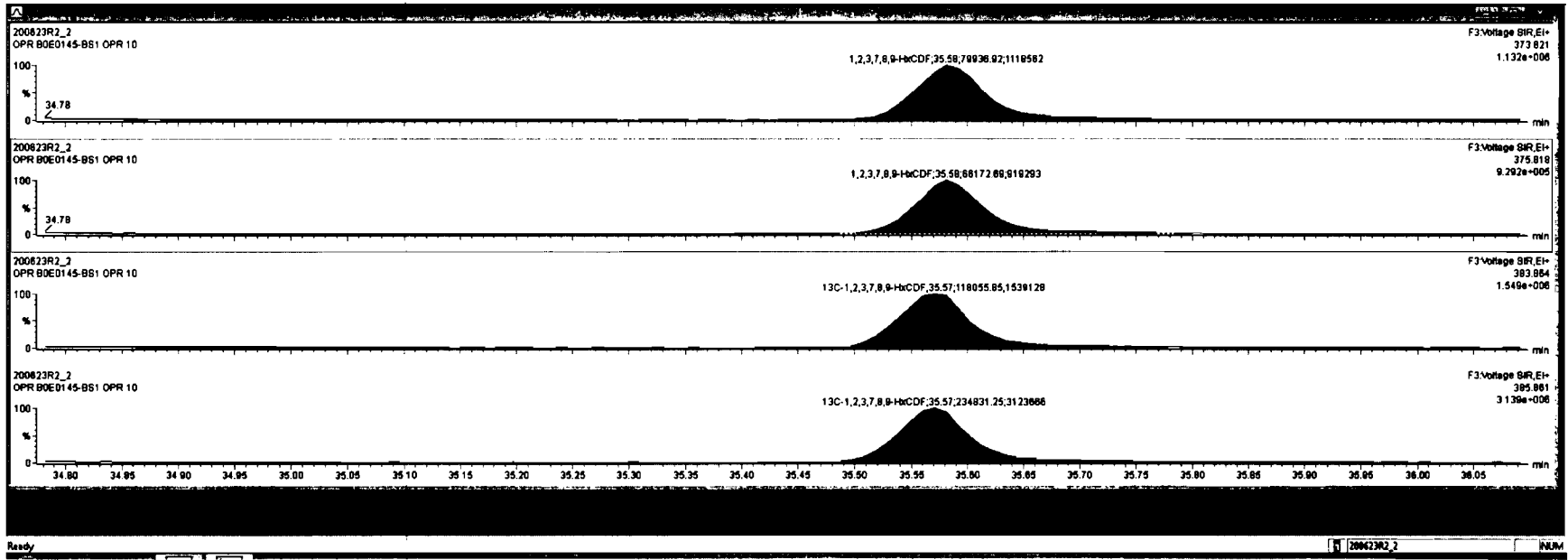
RT	Area	Height	Area%	Height%
34.33	14351.263	2178153	34.65	34.65





Sample	RT	Std	Area	Height	Area%	Height%	Area%	Height%	Area%	Height%		
1	1.237	0.98	NO	0.8225	10.000	30.17	30.17	1.001	83.0	0.246	83.0	
2	2.347	1.58	NO	0.8348	10.000	31.18	31.15	1.000	90.8	0.240	90.8	
3	1.2347	1.21	NO	0.8845	10.000	33.84	33.88	1.001	86.5	0.351	86.5	
4	1.2387	1.20	NO	0.8882	10.000	34.08	34.08	1.000	87.9	0.320	87.9	
5	2.3467	1.18	NO	0.8341	10.000	34.89	34.87	1.000	96.9	0.373	96.9	
6	1.23467	1.205	0.98	NO	0.8734	10.000	37.39	37.36	1.000	88.8	0.471	88.8
7	1.23478	0.98	0.87	NO	1.0128	10.000	38.30	38.31	1.000	102	0.581	102

Name	RT	Std	Area	Height	Area%	Height%	Area%	Height%	Area%	Height%



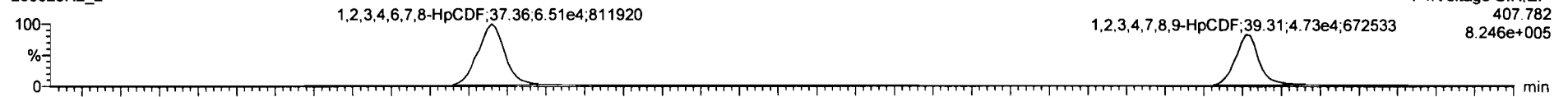
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Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

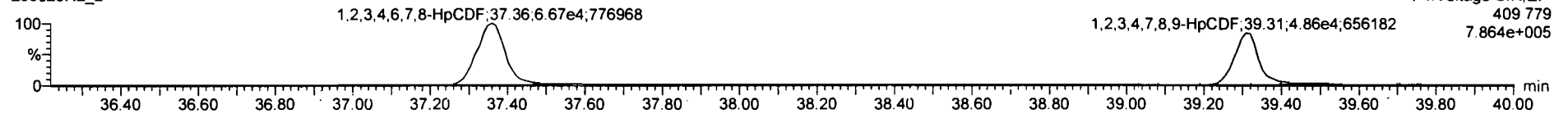
Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR

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

200623R2_2

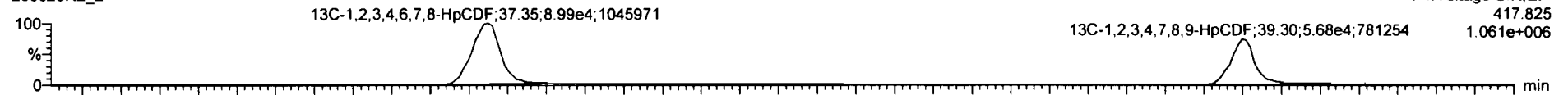


200623R2_2

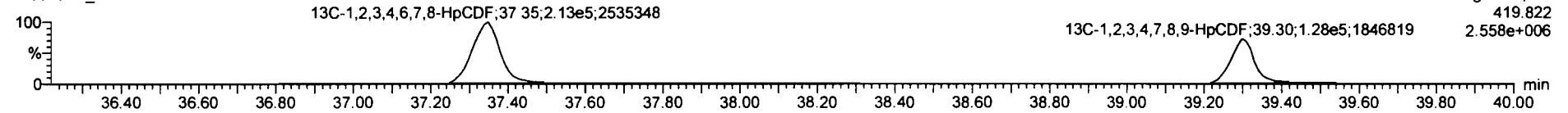


13C-1,2,3,4,6,7,8-HpCDF

200623R2_2

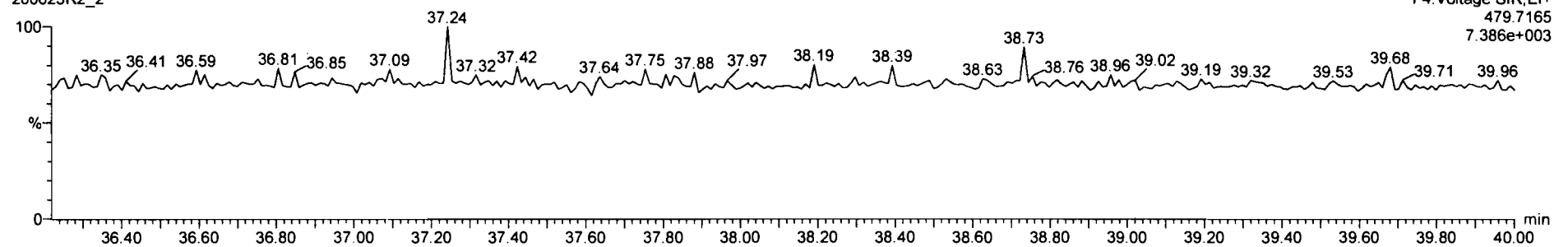


200623R2_2



DPE4

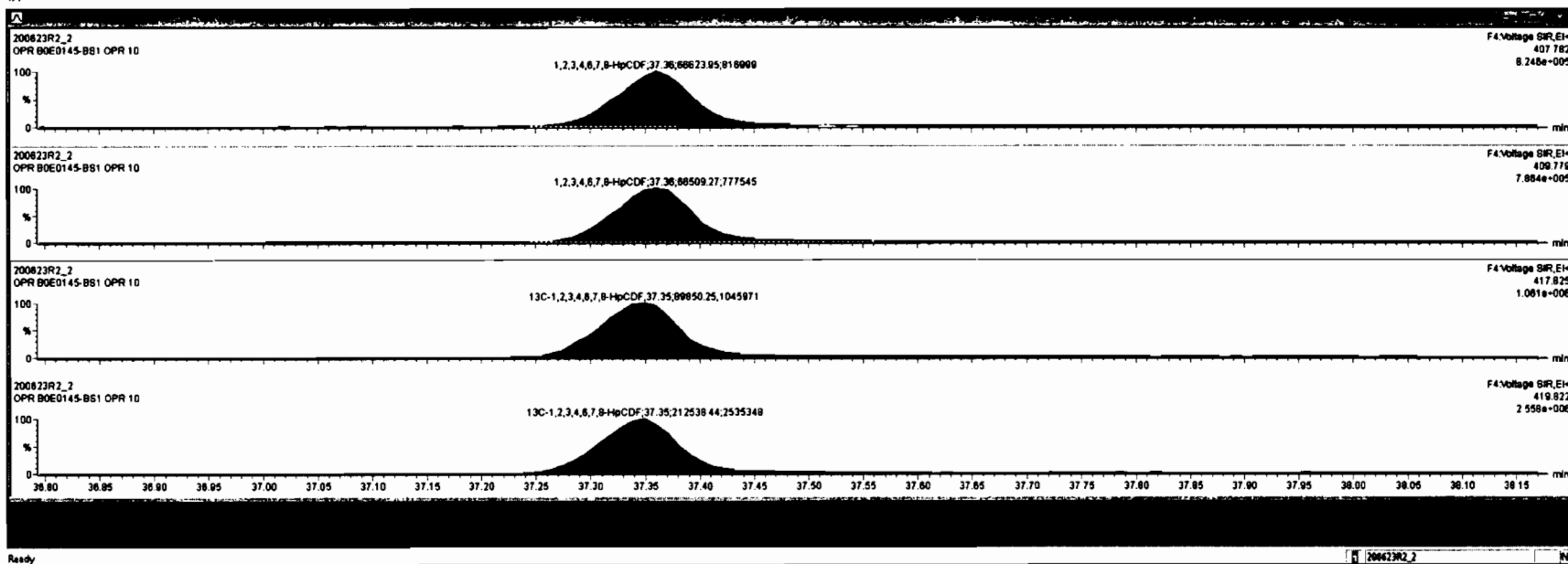
200623R2_2





RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
30.17	1.2,3,7,8-HpCDF	3.25e5	1.58	NO	0.8925	10.000	30.17	30.17	1.001	83.0	0.246	83.0
31.15	1,2,3,4,7,8-HpCDF	3.13e5	1.58	NO	0.8348	10.000	31.15	31.15	1.000	80.0	0.240	80.0
33.28	1,2,3,4,7,8-HpCDF	1.81e5	1.21	NO	0.8845	10.000	33.28	33.28	1.001	98.5	0.351	98.5
34.08	1,2,3,6,7,8-HpCDF	2.18e5	1.20	NO	0.8892	10.000	34.08	34.08	1.000	97.9	0.320	97.9
34.87	1,2,3,6,7,8-HpCDF	1.91e5	1.19	NO	0.8341	10.000	34.87	34.87	1.000	98.8	0.373	98.8
35.58	1,2,3,7,8-HpCDF	1.48e5	1.21	NO	0.8707	10.000	35.58	35.58	1.000	95.1	0.599	95.1
38.30	1,2,3,4,7,8-HpCDF	9.53e4	1.00	NO	1.0128	10.000	38.30	38.31	1.000	102	0.581	102

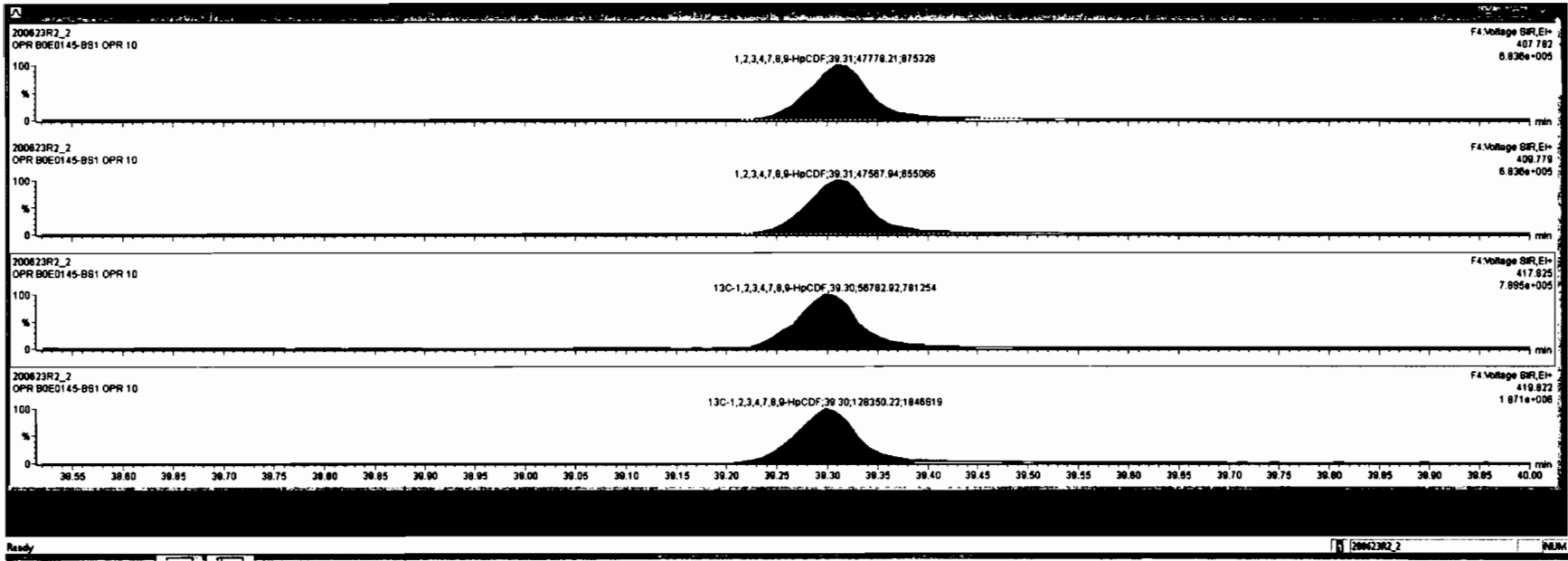
Name	RT	Int Resp	Ext Resp	BA	Adj	EMPC	Conv.





Sample	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	
1,2,3,4,7,8-HpCDF	3.25e5	1.58	NO	0.8825	10.000	30.17	30.17	1.001	83.0	0.248	83.0
1,2,3,4,7,8-HpCDF	3.13e5	1.58	NO	0.8248	10.000	31.18	31.15	1.000	80.8	0.240	80.8
1,2,3,4,7,8-HpCDF	1.81e5	1.21	NO	0.8845	10.000	33.84	33.86	1.001	86.5	0.351	86.5
1,2,3,4,7,8-HpCDF	2.18e5	1.20	NO	0.8882	10.000	34.08	34.08	1.000	87.9	0.320	87.9
1,2,3,4,7,8-HpCDF	1.91e5	1.19	NO	0.8341	10.000	34.88	34.87	1.000	88.9	0.373	88.9
1,2,3,4,7,8-HpCDF	1.48e5	1.21	NO	0.8707	10.000	35.57	35.58	1.000	85.1	0.558	85.1
1,2,3,4,7,8-HpCDF	1.33e5	1.00	NO	0.8734	10.000	37.38	37.38	1.000	101	0.471	101

RT	Area	Height	Width	Area%	Height%	Width%

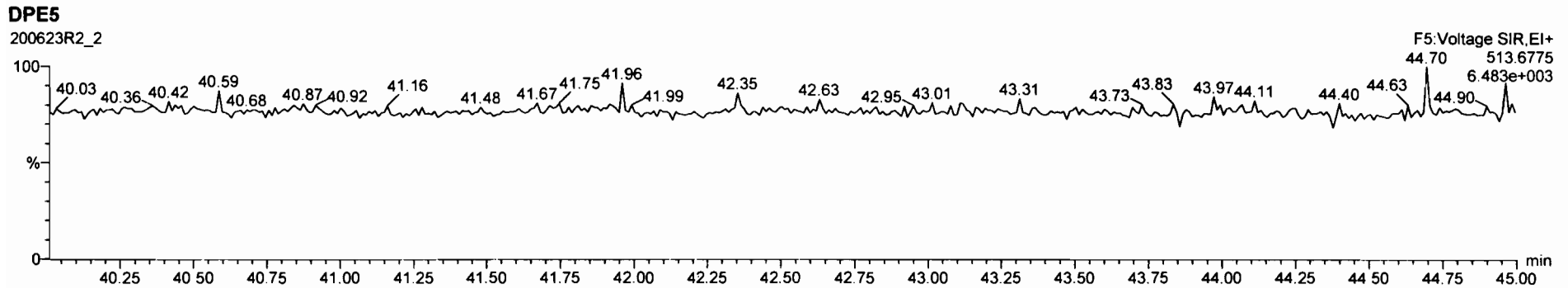
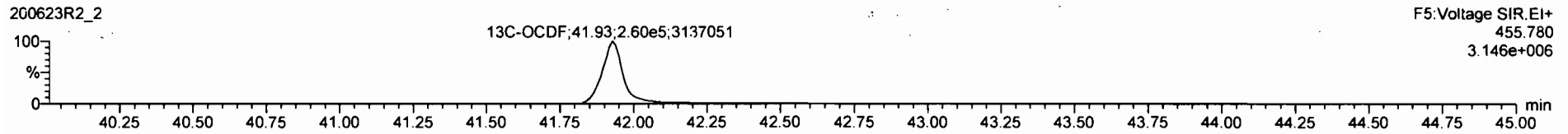
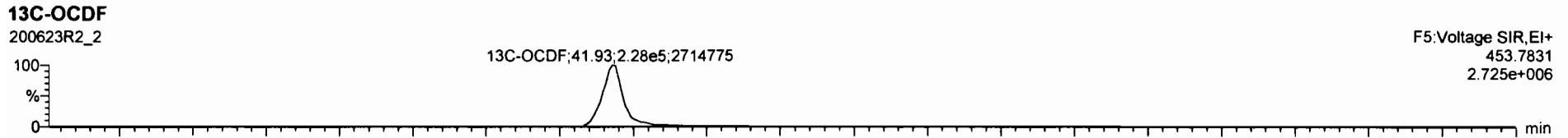
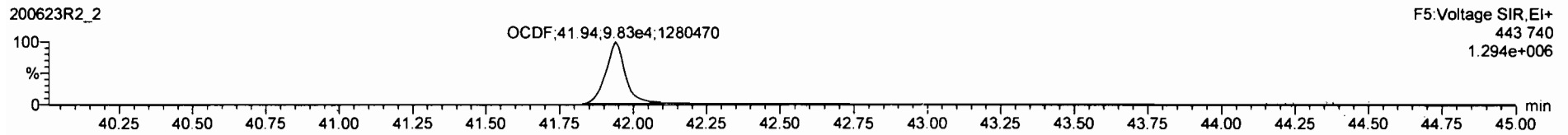
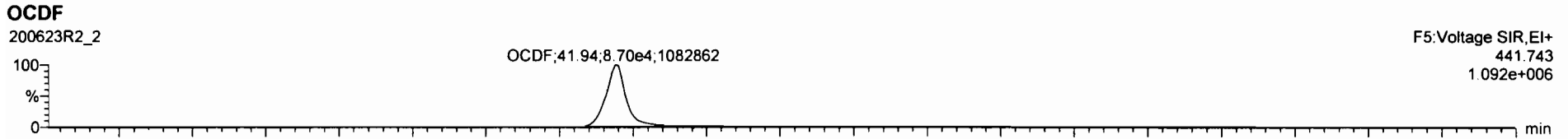


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Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:06:13 AM Pacific Daylight Time

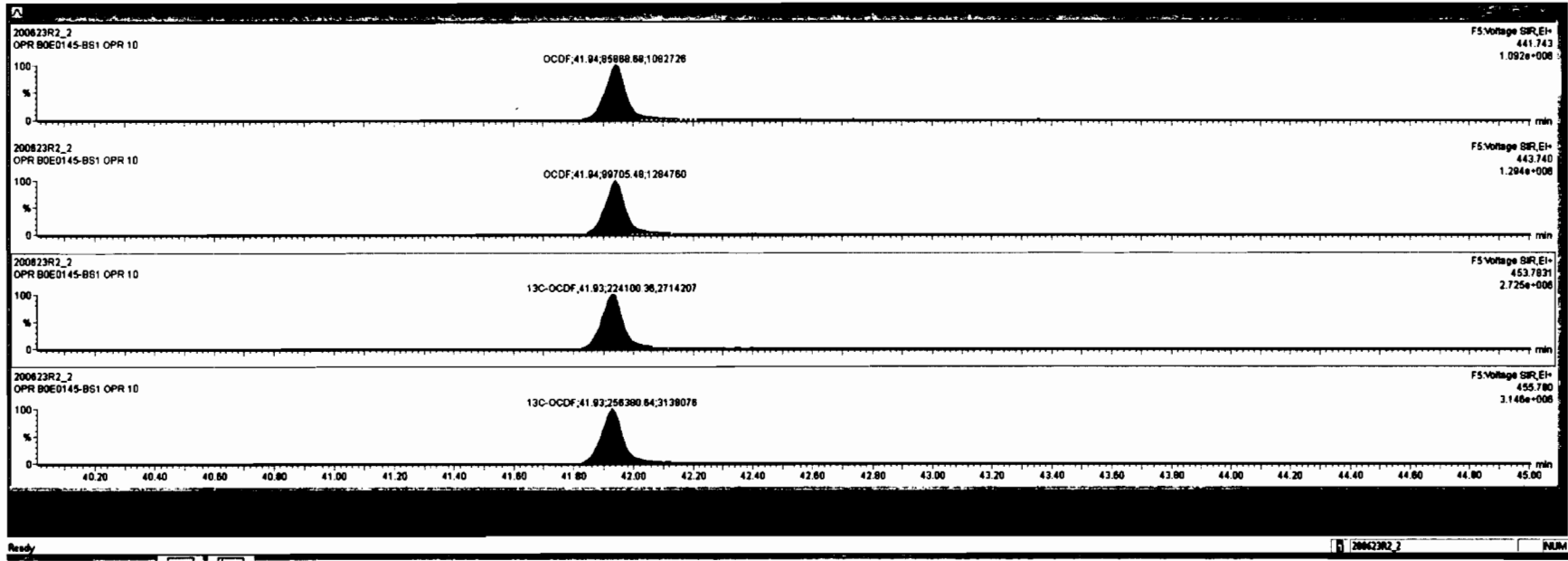
Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR





RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
10.33	13C-2,3,7,8-TCDD	7.07e5	0.78	NO	1.1923	10.000	26.48	26.47	1.028	189	79.2	0.283
10.33	13C-1,2,3,7,8-PeCDD	5.07e5	0.83	NO	0.8480	10.000	31.87	31.43	1.218	154	77.2	0.336
10.33	13C-1,2,3,4,7,8-HxCDD	3.20e5	1.26	NO	0.7790	10.000	34.82	34.81	1.014	167	83.4	0.536
10.33	13C-1,2,3,6,7,8-HxCDD	4.09e5	1.25	NO	1.0167	10.000	34.83	34.82	1.017	183	91.8	0.413
10.33	13C-1,2,3,7,8,9-HxCDD	3.78e5	1.28	NO	0.9027	10.000	35.26	35.21	1.025	189	94.5	0.485
10.33	13C-1,2,3,4,6,7,8-HpCDD	2.55e5	1.08	NO	0.6982	10.000	38.73	38.78	1.128	190	75.2	0.585
10.33	13C-OCDD	3.98e5	0.87	NO	0.8521	10.000	41.75	41.75	1.216	248	62.1	0.744

RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
41.94	OCDF	41.94	85988.88	1062726								
41.94	OCDF	41.94	99705.48	1284760								
41.93	13C-OCDF	41.93	224100.38	2714207								
41.93	13C-OCDF	41.93	258380.84	3128078								

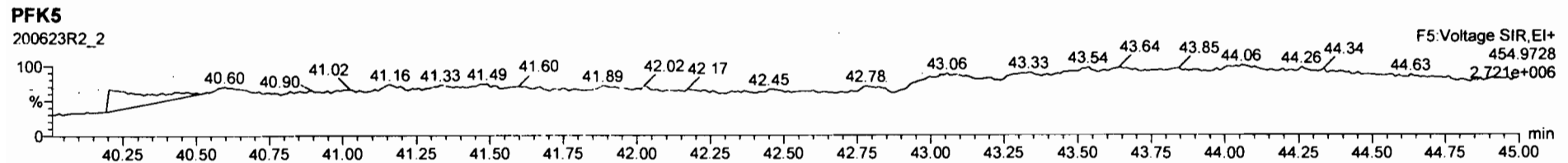
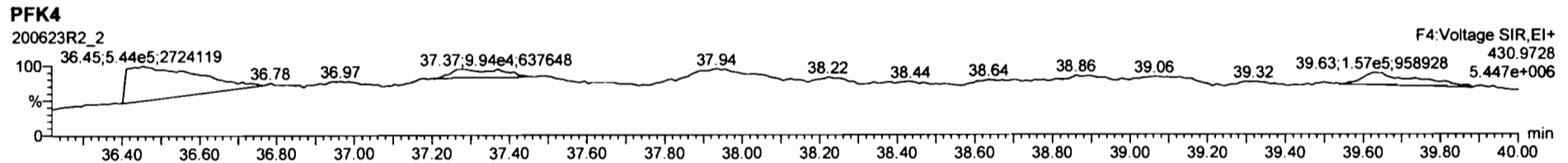
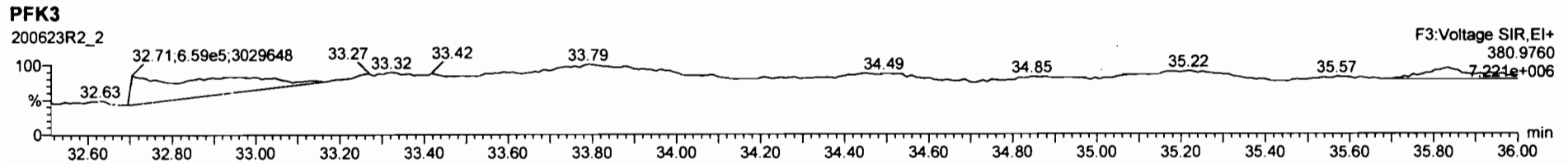
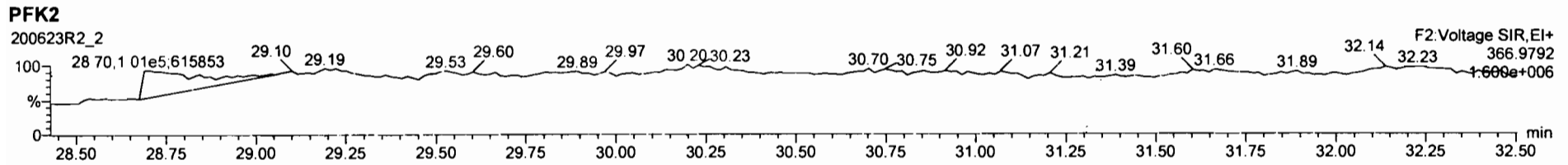
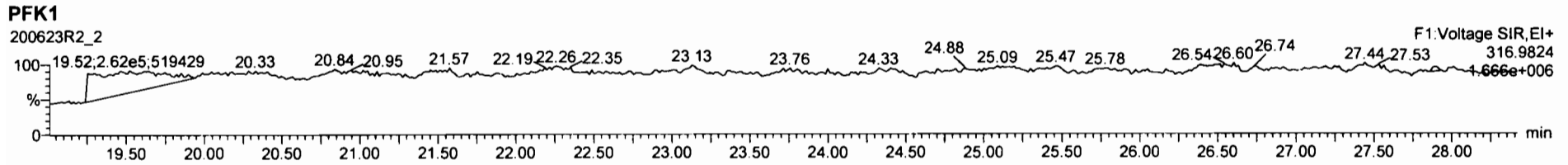


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Last Altered: Wednesday, June 24, 2020 7:06:03 AM Pacific Daylight Time

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Name: 200623R2_2, Date: 23-Jun-2020, Time: 15:51:40, ID: B0E0145-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200707R2\200707R2-6.qld

Last Altered: Wednesday, July 08, 2020 9:57:28 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 10:02:27 AM Pacific Daylight Time

GRB 07/08/2020

C7 07/17/2020

Method: Untitled 03 Jul 2020 12:13:21

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.888	10.000	26.486		1.001				0.0451	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.000	31.457		1.001				0.0659	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.000	34.825		1.000				0.0657	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.000	34.921		1.000				0.0721	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.000	35.244		1.001				0.0847	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	10.000	38.767		1.000				0.0796	
7	7 OCDD	2.90e2	0.86	NO	0.914	10.000	41.780	41.84	1.000	1.002	0.19851		0.109	0.199
8	8 2,3,7,8-TCDF			NO	0.751	10.000	25.587		1.001				0.0259	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.000	30.175		1.001				0.0319	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.000	31.149		1.001				0.0298	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.000	33.941		1.000				0.0360	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.000	34.068		1.000				0.0358	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.000	34.676		1.001				0.0403	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.000	35.592		1.001				0.0598	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.000	37.386		1.001				0.0620	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	39.309		1.000				0.0649	
17	17 OCDF			NO	0.806	10.000	41.972		1.000				0.103	
18	18 13C-2,3,7,8-TCDD	7.46e5	0.77	NO	1.16	10.000	26.432	26.45	1.025	1.026	155.44	77.7	0.145	
19	19 13C-1,2,3,7,8-PeCDD	5.57e5	0.63	NO	0.849	10.000	31.439	31.43	1.219	1.219	158.08	79.0	0.263	
20	20 13C-1,2,3,4,7,8-HxCDD	4.18e5	1.30	NO	0.779	10.000	34.809	34.81	1.014	1.014	152.09	76.0	0.451	
21	21 13C-1,2,3,6,7,8-HxCDD	5.38e5	1.31	NO	1.02	10.000	34.908	34.92	1.017	1.017	150.10	75.1	0.346	
22	22 13C-1,2,3,7,8,9-HxCDD	4.68e5	1.26	NO	0.903	10.000	35.217	35.21	1.026	1.025	147.00	73.5	0.389	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.79e5	1.03	NO	0.689	10.000	38.761	38.76	1.129	1.129	156.22	78.1	0.402	
24	24 13C-OCDD	6.40e5	0.89	NO	0.652	10.000	41.765	41.78	1.216	1.217	278.54	69.6	0.667	
25	25 13C-2,3,7,8-TCDF	9.53e5	0.75	NO	1.06	10.000	25.540	25.56	0.991	0.991	152.30	76.2	0.230	
26	26 13C-1,2,3,7,8-PeCDF	7.92e5	1.58	NO	0.838	10.000	30.157	30.15	1.170	1.170	159.97	80.0	0.407	
27	27 13C-2,3,4,7,8-PeCDF	7.60e5	1.59	NO	0.817	10.000	31.129	31.13	1.207	1.208	157.45	78.7	0.418	
28	28 13C-1,2,3,4,7,8-HxCDF	4.96e5	0.50	NO	1.01	10.000	33.944	33.94	0.989	0.989	139.63	69.8	0.587	
29	29 13C-1,2,3,6,7,8-HxCDF	5.47e5	0.50	NO	1.17	10.000	34.060	34.06	0.992	0.992	132.90	66.4	0.507	
30	30 13C-2,3,4,6,7,8-HxCDF	4.95e5	0.49	NO	1.02	10.000	34.637	34.65	1.009	1.009	137.59	68.8	0.579	

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-6.qld

Last Altered: Wednesday, July 08, 2020 9:57:28 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 10:02:27 AM Pacific Daylight Time

Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	4.25e5	0.50	NO	0.860	10.000	35.568	35.57	1.036	1.036	140.22	70.1	0.688	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.42e5	0.43	NO	0.774	10.000	37.350	37.35	1.088	1.088	125.22	62.6	0.459	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.57e5	0.39	NO	0.521	10.000	39.320	39.31	1.145	1.145	140.22	70.1	0.683	
34	34 13C-OCDF	6.54e5	0.90	NO	0.746	10.000	41.954	41.97	1.222	1.222	248.99	62.2	0.344	
35	35 37Cl-2,3,7,8-TCDD	3.18e5			1.04	10.000	26.450	26.47	1.026	1.027	73.814	92.3	0.0484	
36	36 13C-1,2,3,4-TCDD	8.30e5	0.78	NO	1.00	10.000	25.740	25.78	1.000	1.000	200.00	100	0.167	
37	37 13C-1,2,3,4-TCDF	1.18e6	0.78	NO	1.00	10.000	24.030	24.10	1.000	1.000	200.00	100	0.244	
38	38 13C-1,2,3,4,6,9-HxCDF	7.05e5	0.50	NO	1.00	10.000	34.290	34.33	1.000	1.000	200.00	100	0.592	
39	39 Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0284	
40	40 Total Penta-Dioxins				0.908	10.000	29.960		0.000				0.0339	
41	41 Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.0377	
42	42 Total Hepta-Dioxins				0.864	10.000	38.800		0.000				0.0497	
43	43 Total Tetra-Furans				0.751	10.000	23.610		0.000				0.0104	
44	44 1st Func. Penta-Furans				0.893	10.000	27.040		0.000				0.00948	
45	45 Total Penta-Furans				0.893	10.000	29.275		0.000				0.0149	
46	46 Total Hexa-Furans				0.934	10.000	33.555		0.000				0.0210	
47	47 Total Hepta-Furans				0.873	10.000	37.835		0.000				0.0379	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-6.qld

Last Altered: Wednesday, July 08, 2020 9:57:28 AM Pacific Daylight Time
 Printed: Wednesday, July 08, 2020 10:02:27 AM Pacific Daylight Time

Method: Untitled 03 Jul 2020 12:13:21

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-6.qld

Last Altered: Wednesday, July 08, 2020 9:57:28 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 10:02:27 AM Pacific Daylight Time

Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Dataset: Untitled

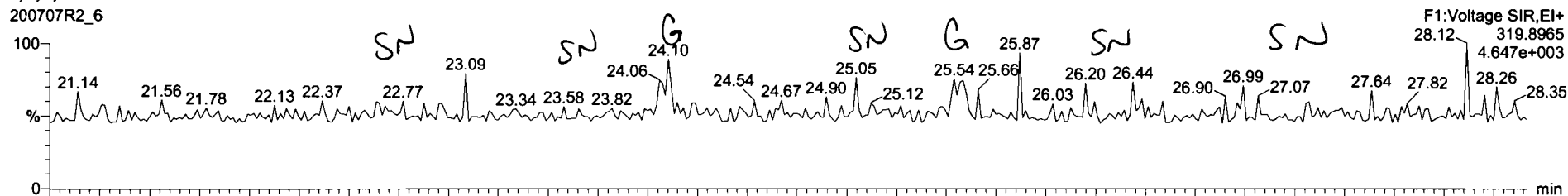
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

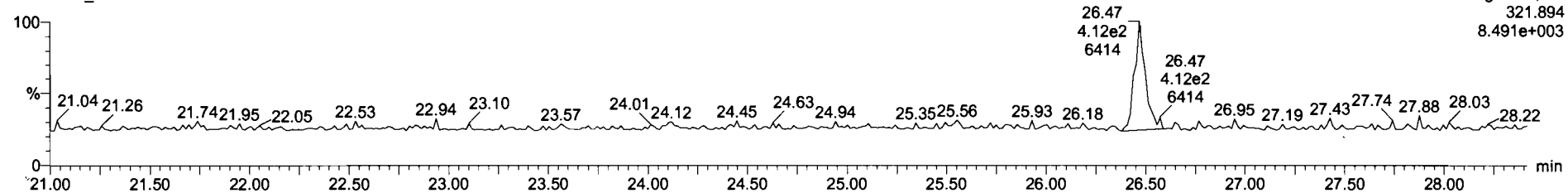
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2,3,7,8-TCDD

200707R2_6

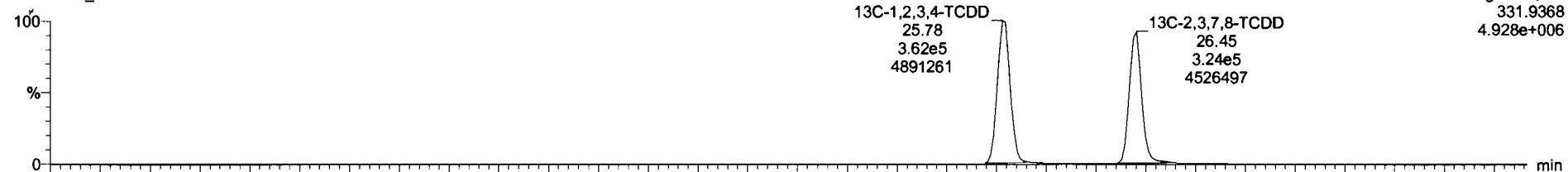


200707R2_6

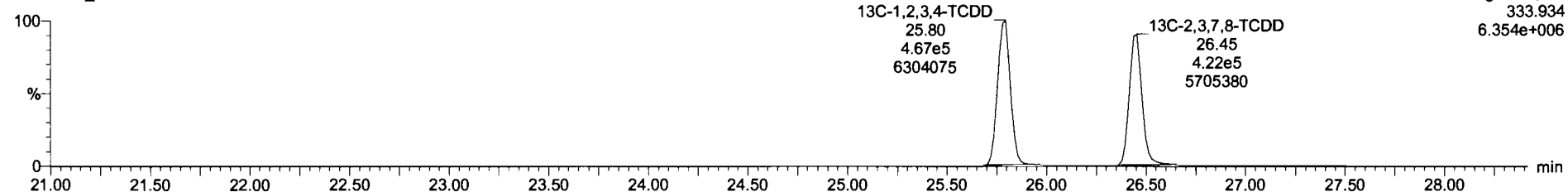


13C-2,3,7,8-TCDD

200707R2_6



200707R2_6



Dataset: Untitled

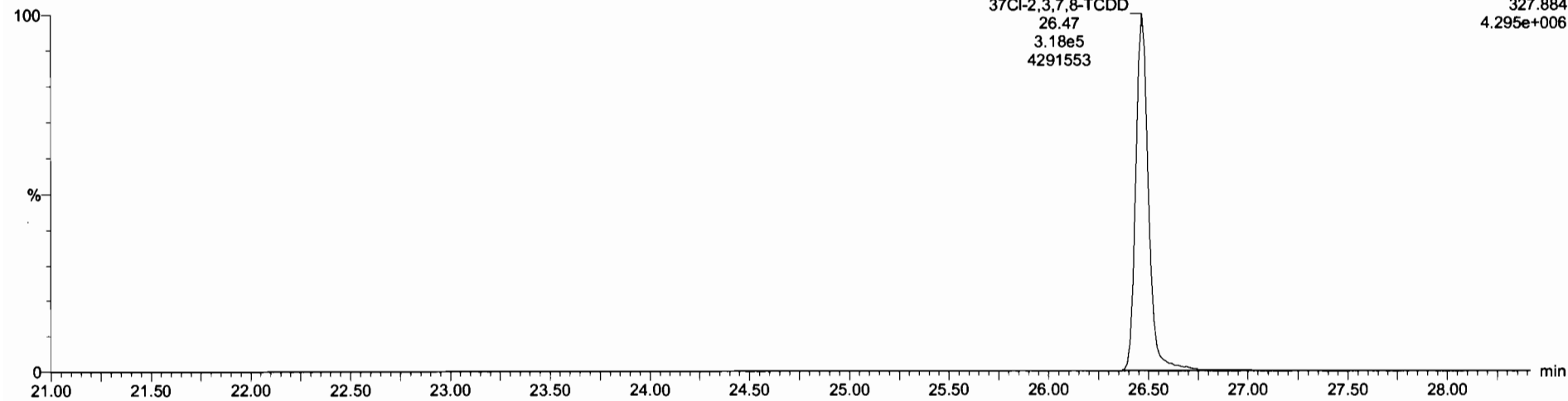
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

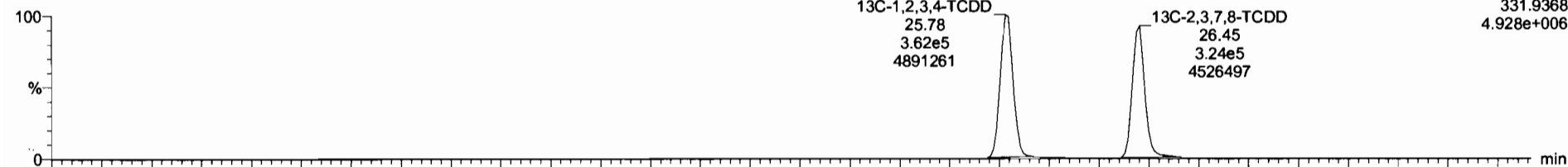
37Cl-2,3,7,8-TCDD

200707R2_6

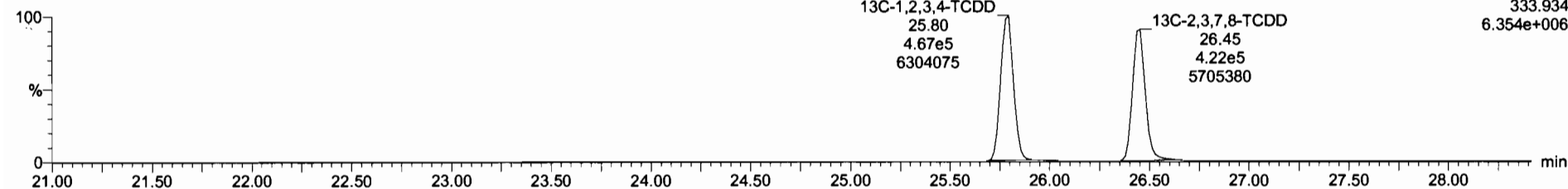


13C-1,2,3,4-TCDD

200707R2_6



200707R2_6



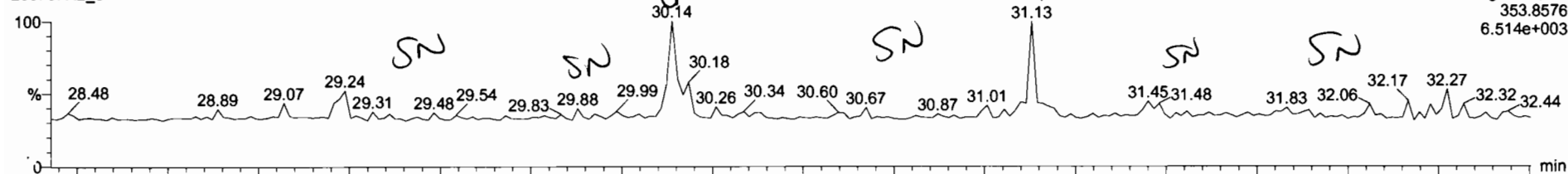
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

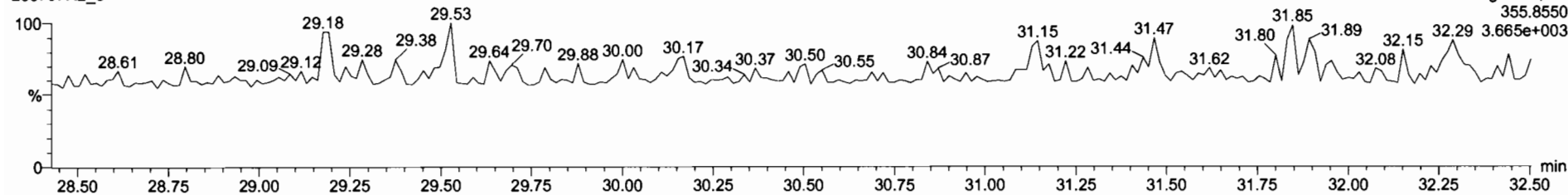
1,2,3,7,8-PeCDD

200707R2_6



F2: Voltage SIR, EI+
353.8576
6.514e+003

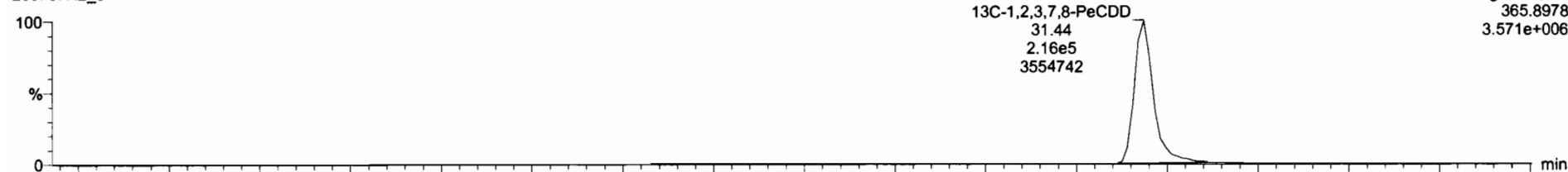
200707R2_6



F2: Voltage SIR, EI+
355.8550
3.665e+003

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

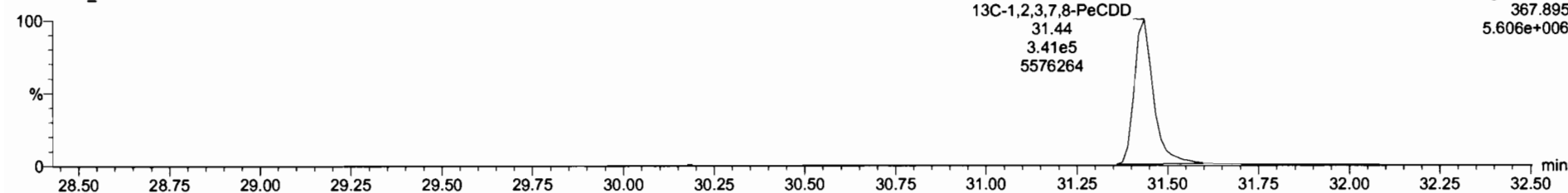
200707R2_6



13C-1,2,3,7,8-PeCDD
31.44
2.16e5
3554742

F2: Voltage SIR, EI+
365.8978
3.571e+006

200707R2_6



13C-1,2,3,7,8-PeCDD
31.44
3.41e5
5576264

F2: Voltage SIR, EI+
367.895
5.606e+006

Dataset: Untitled

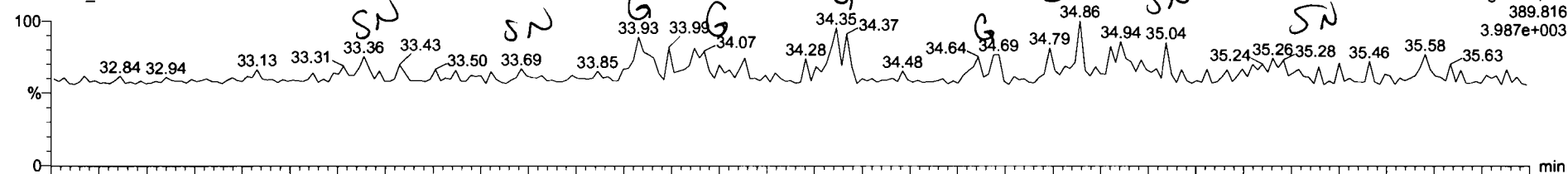
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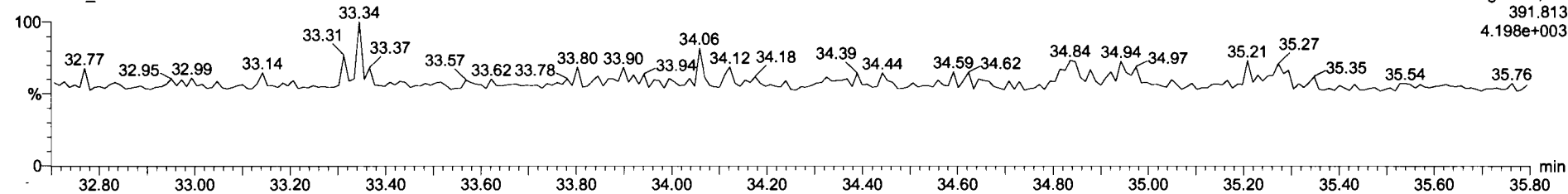
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1,2,3,4,7,8-HxCDD

200707R2_6

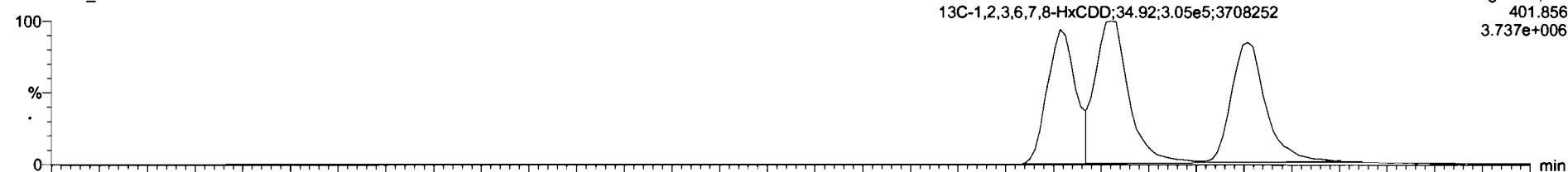


200707R2_6

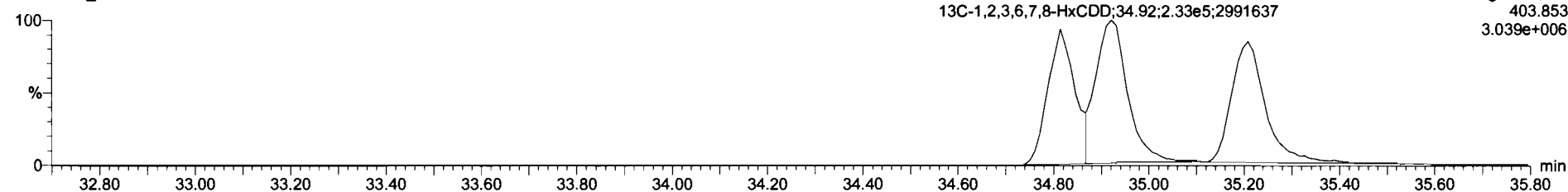


13C-1,2,3,4,7,8-HxCDD

200707R2_6



200707R2_6

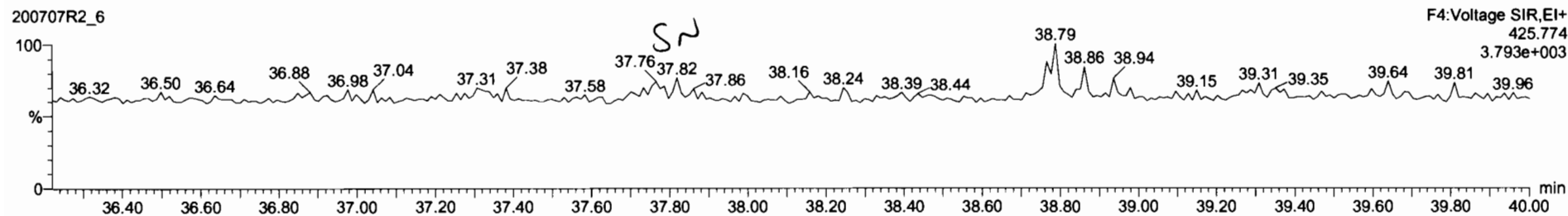
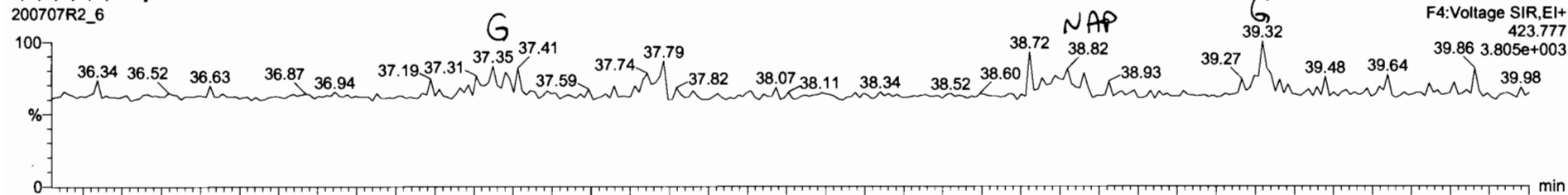


Dataset: Untitled

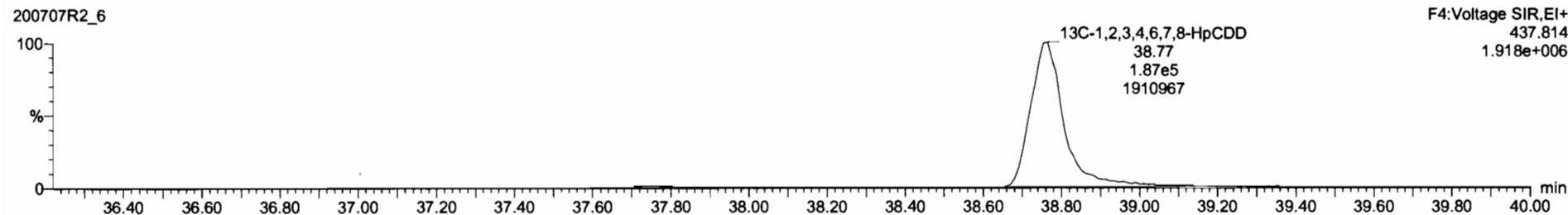
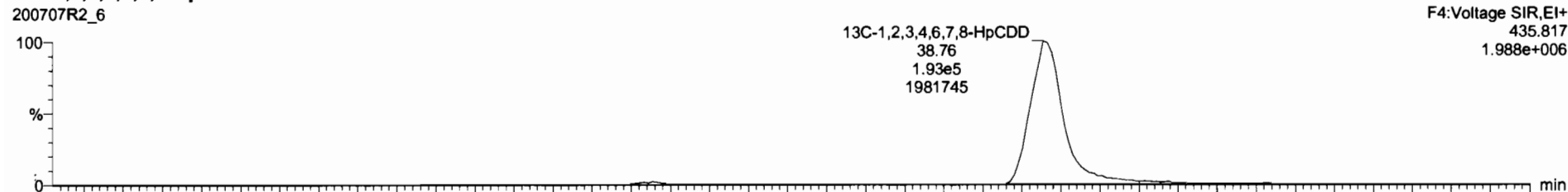
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

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



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

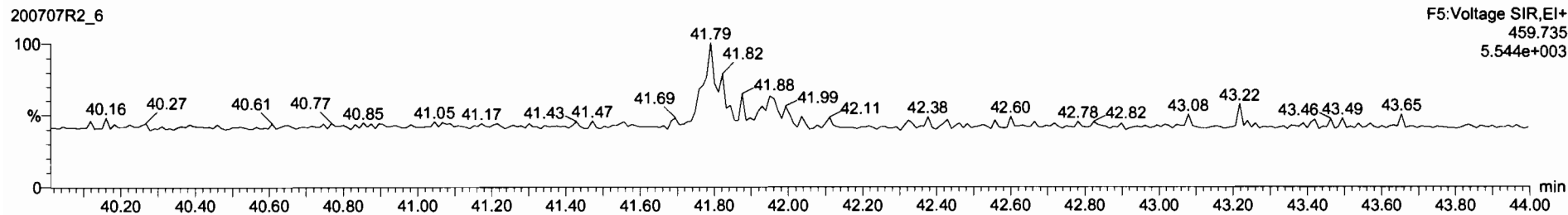
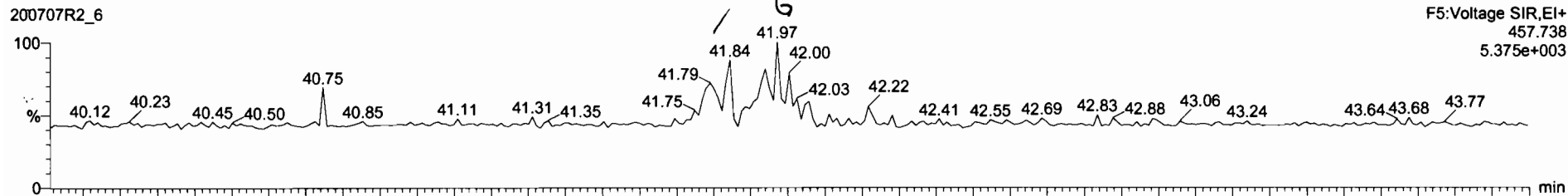


Dataset: Untitled

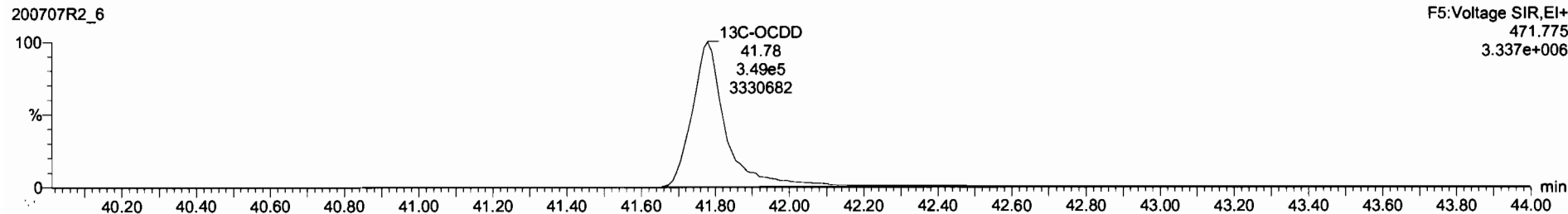
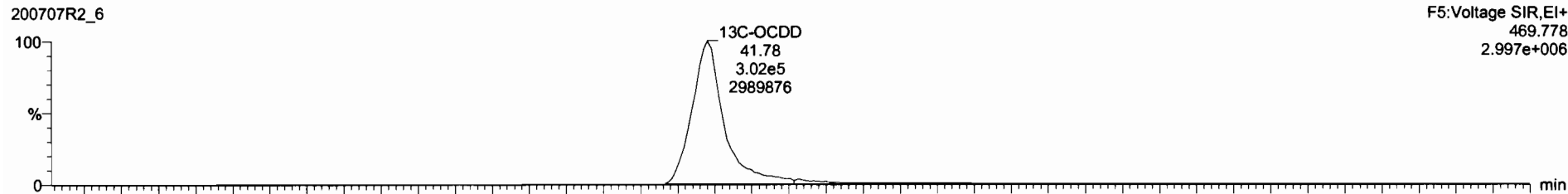
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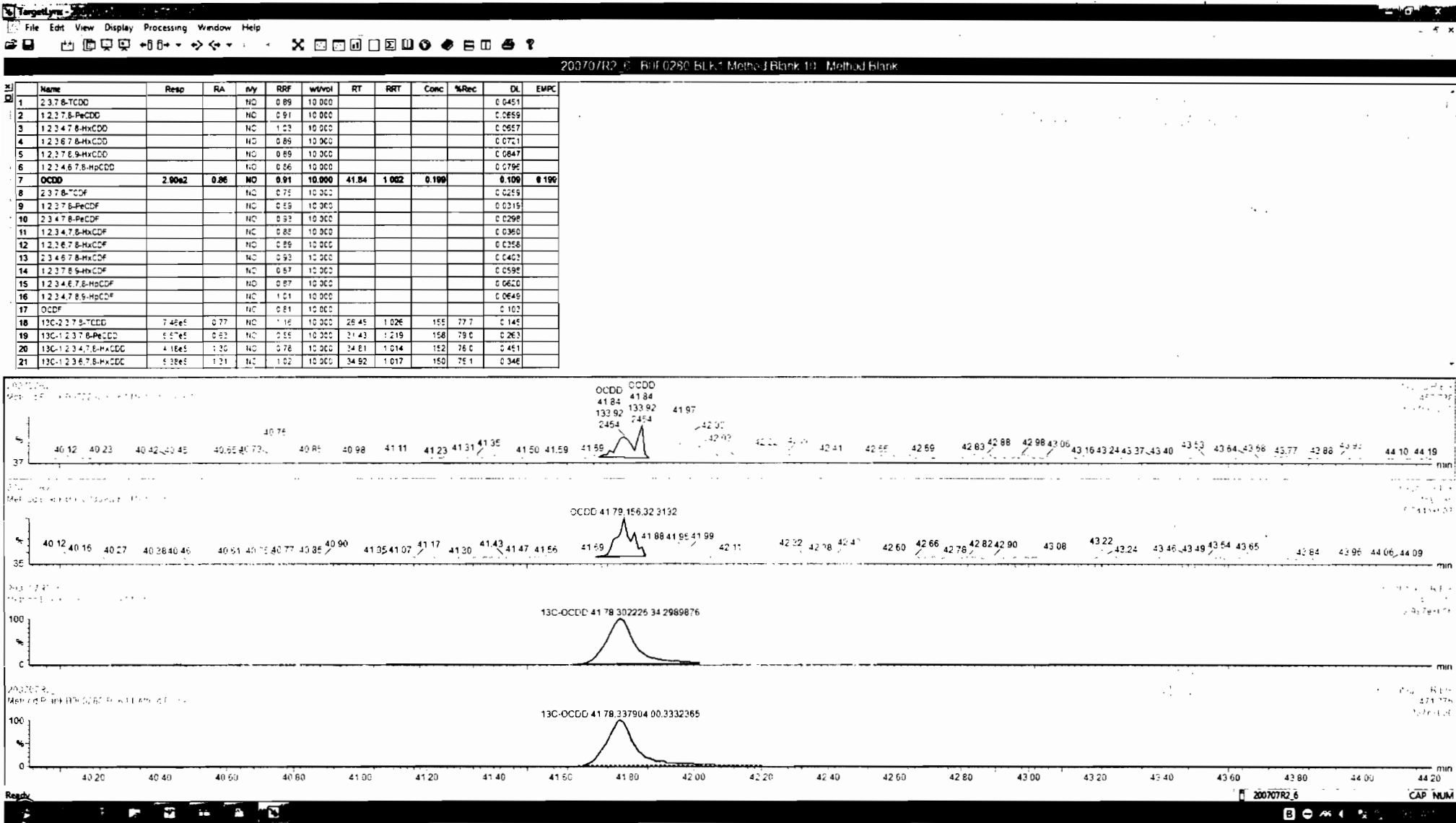
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OCDD



13C-OCDD



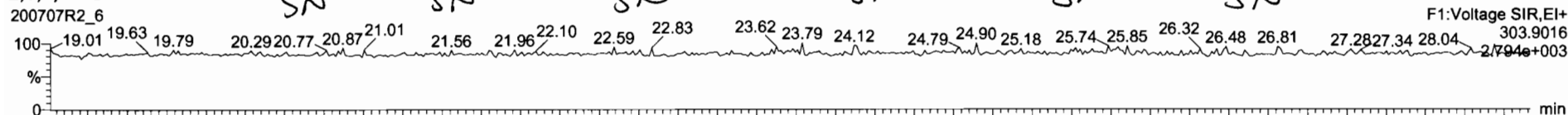


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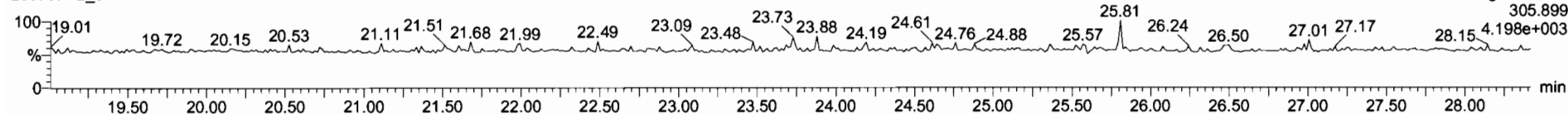
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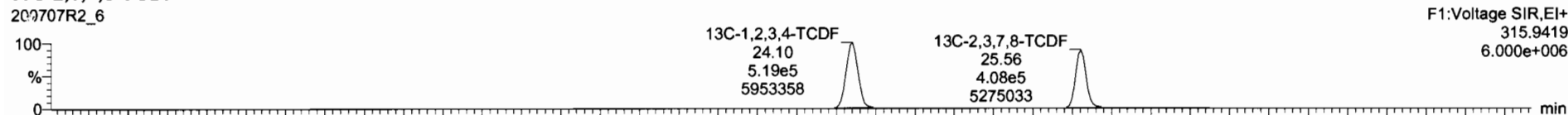
2,3,7,8-TCDF



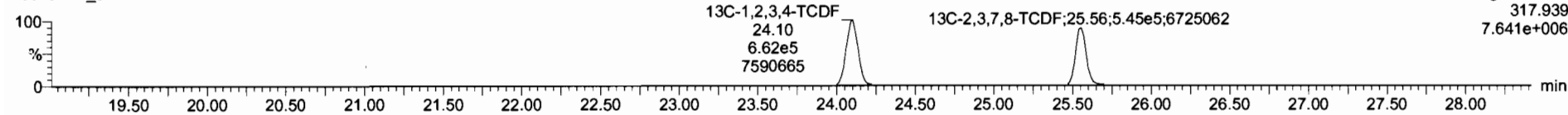
200707R2_6



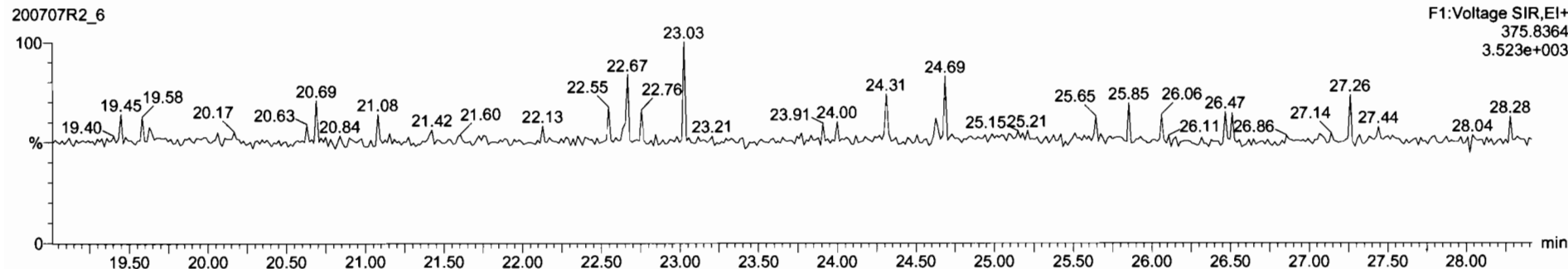
13C-2,3,7,8-TCDF



200707R2_6



DPE1



Dataset: Untitled

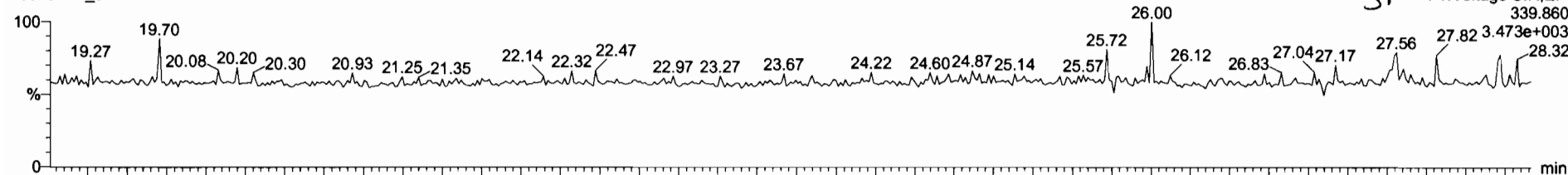
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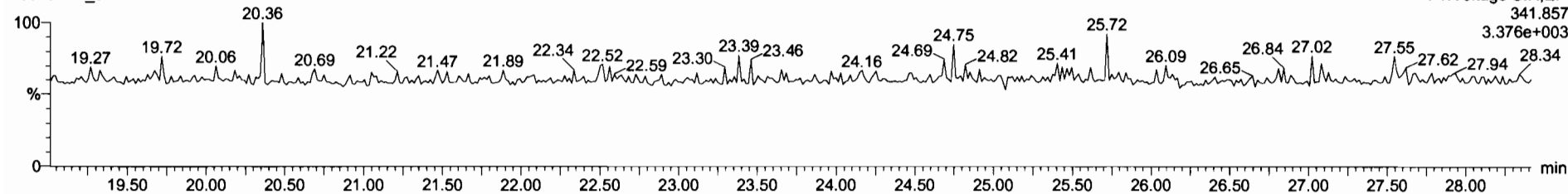
Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200707R2_6

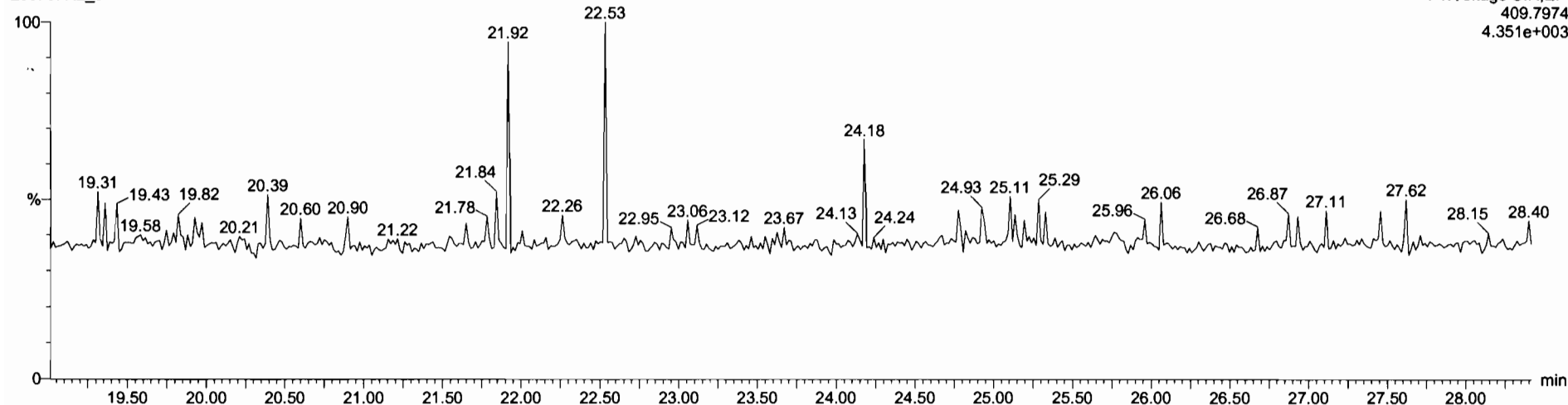


200707R2_6



DPE6

200707R2_6

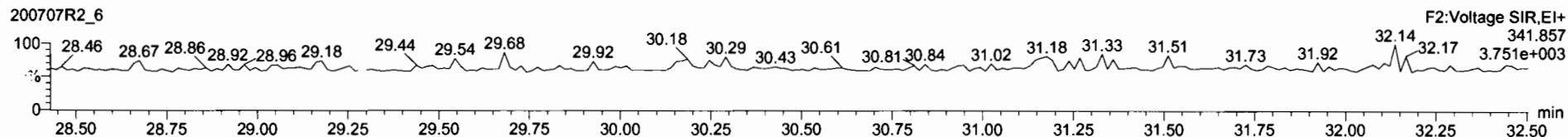
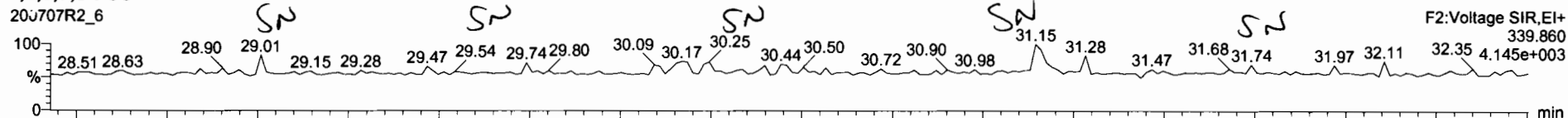


Dataset: Untitled

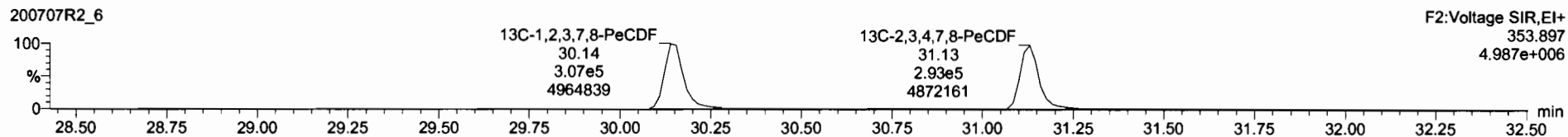
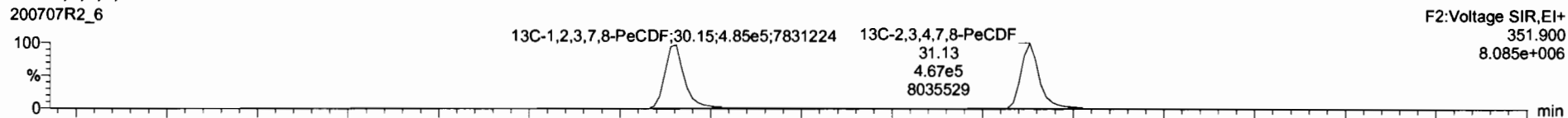
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

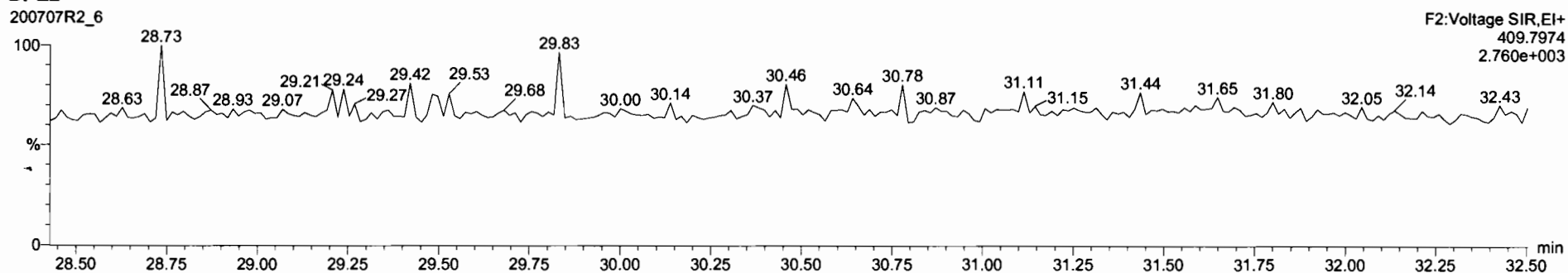
1,2,3,7,8-PeCDF



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



DPE2

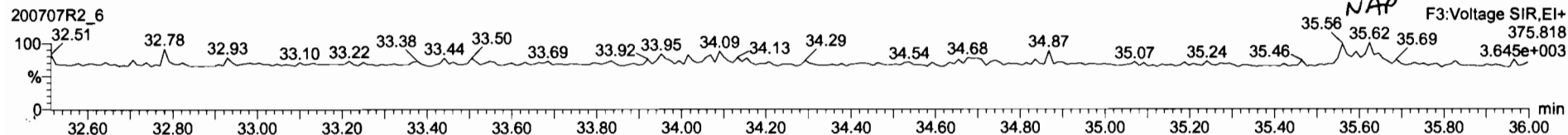
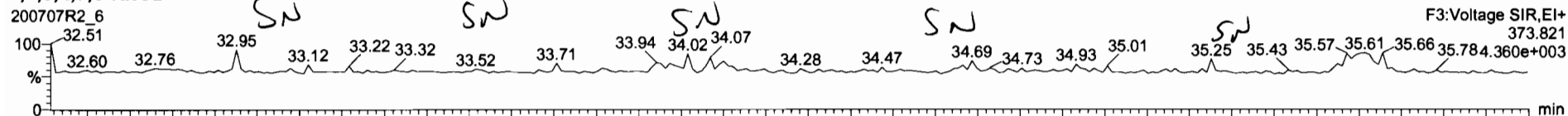


Dataset: Untitled

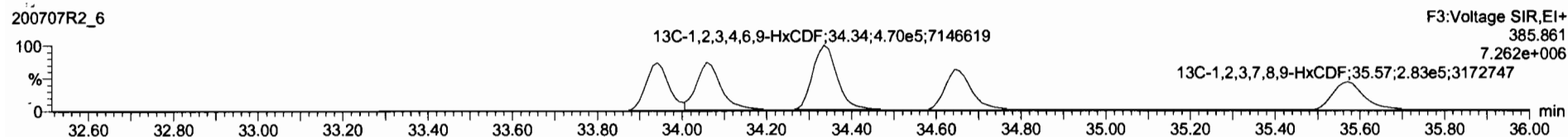
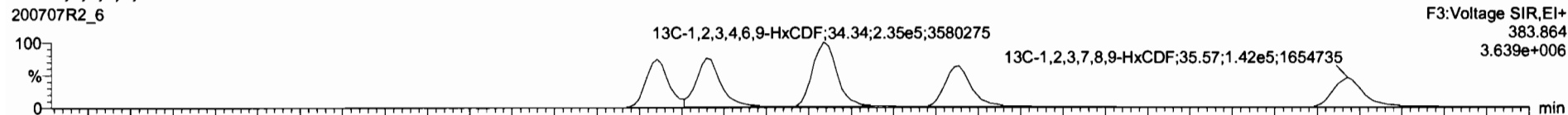
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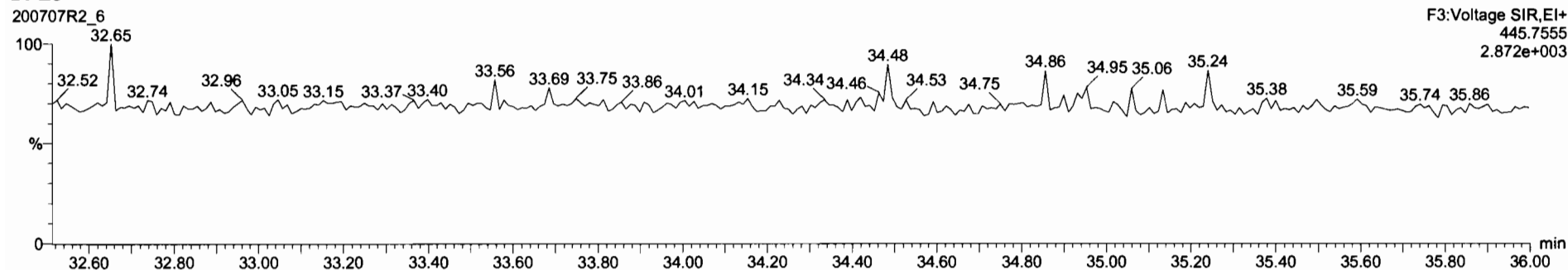
1,2,3,4,7,8-HxCDF



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



DPE3

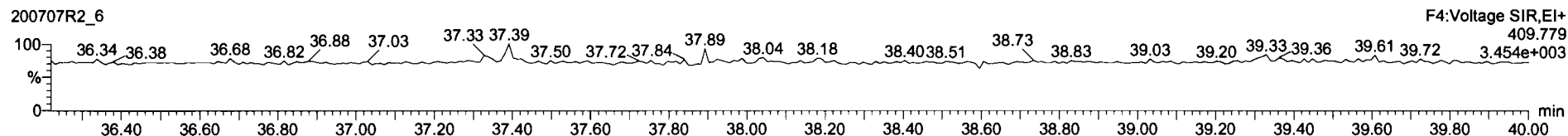
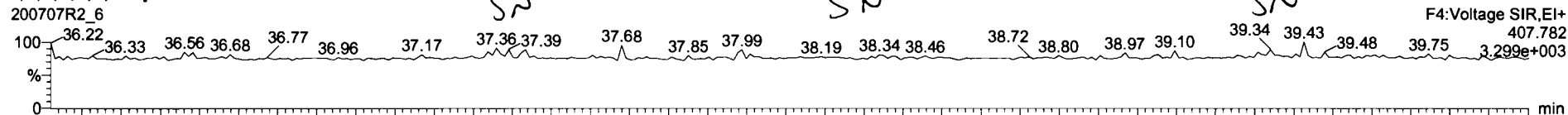


Dataset: Untitled

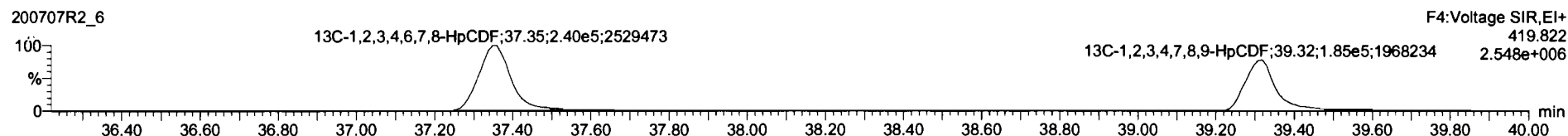
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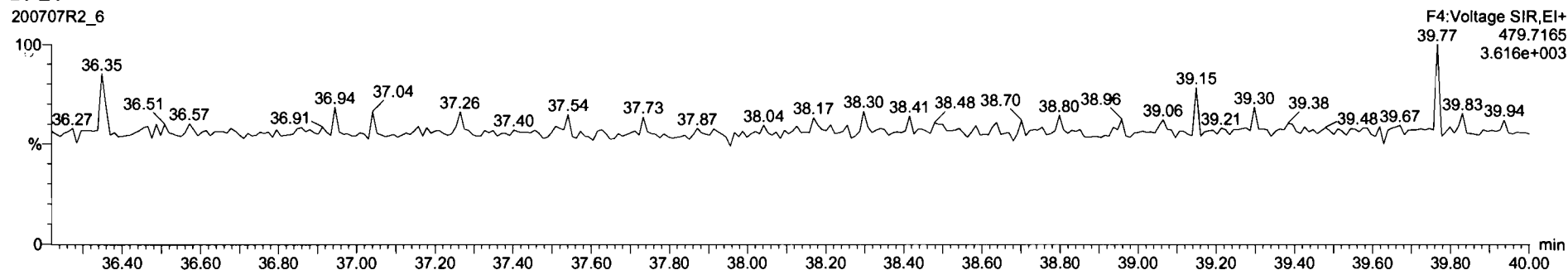
1,2,3,4,6,7,8-HpCDF



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



DPE4

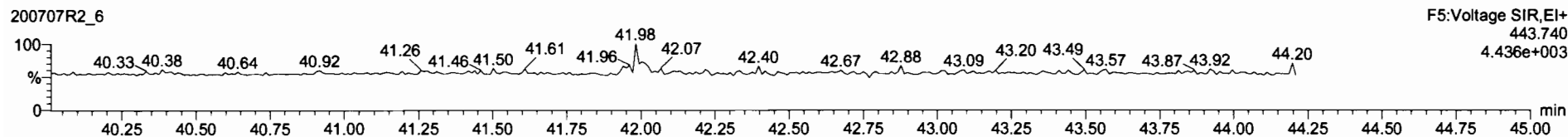
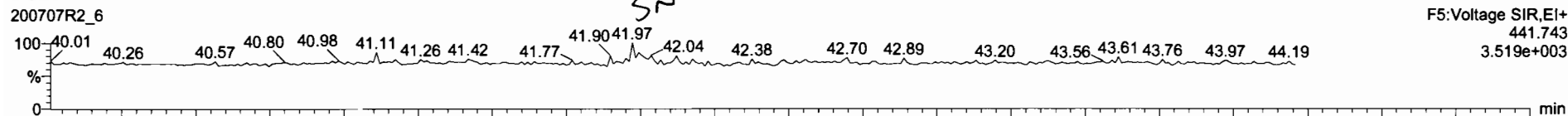


Dataset: Untitled

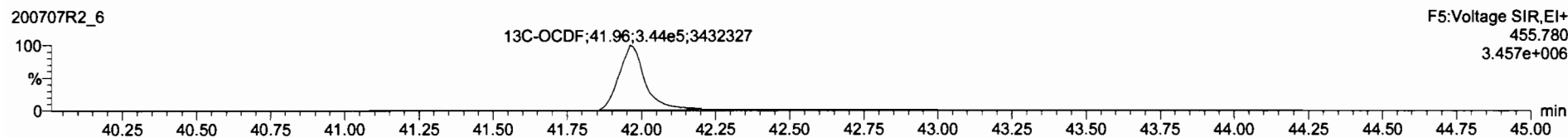
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_6, Date: 07-Jul-2020, Time: 16:50:19, ID: B0F0280-BLK1 Method Blank 10, Description: Method Blank

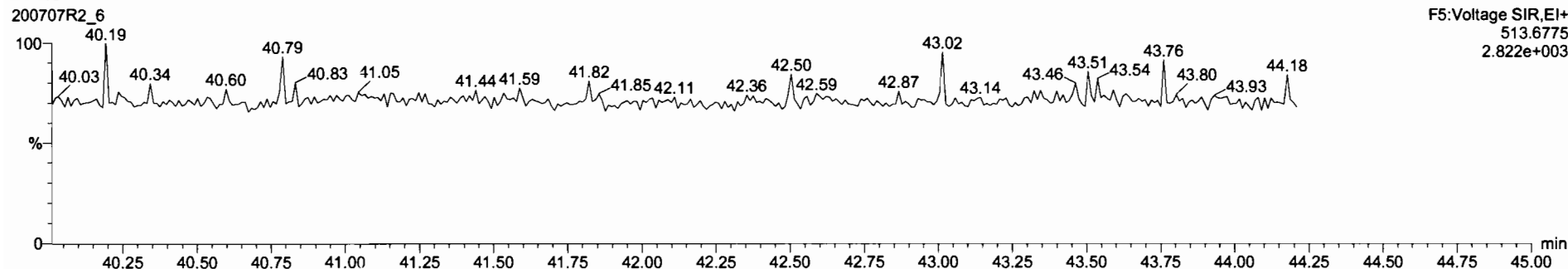
OCDF



13C-OCDF



DPE5



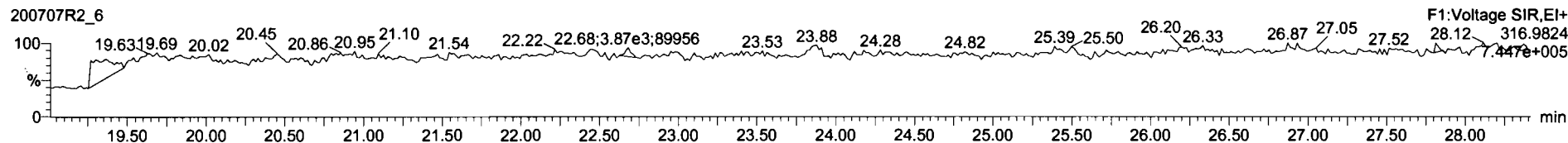
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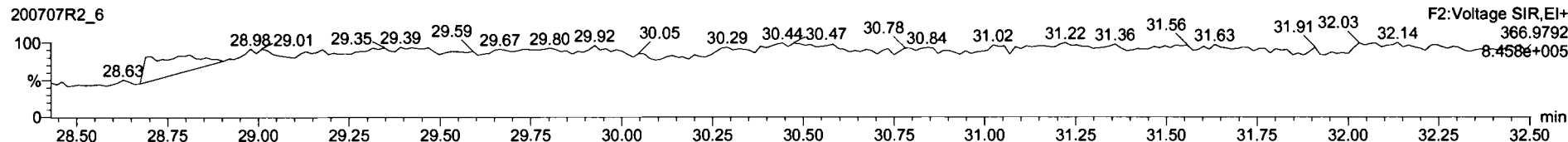
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

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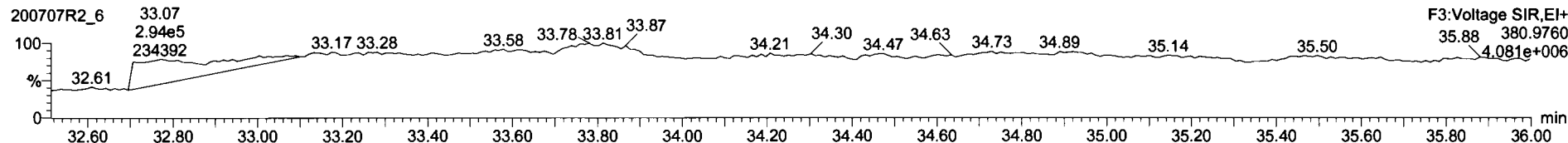
PFK1



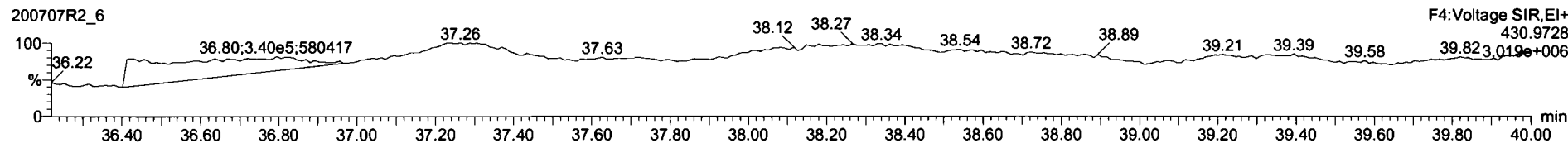
PFK2



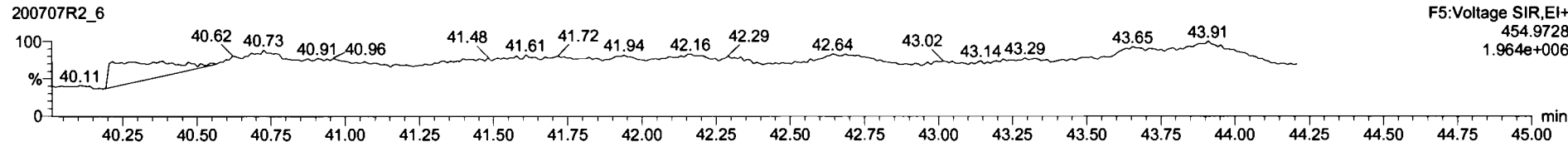
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200709R1\200709R1-2.qld

Last Altered: Friday, July 10, 2020 8:16:13 AM Pacific Daylight Time

Printed: Friday, July 10, 2020 8:18:08 AM Pacific Daylight Time

GRB 07/10/2020

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

C109/7/2020

Name: 200709R1_2, Date: 09-Jul-2020, Time: 08:38:20, ID: B0F0280-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RT	RRT	Conc.	GRS	DL	ELMC
1	2,3,7,8-TCDD	6.38e4	0.75	NO	0.888	10.000	26.486	26.48	1.001	1.001	20.401		0.0841	20.4
2	1,2,3,7,8-PeCDD	2.17e5	0.62	NO	0.908	10.000	31.473	31.47	1.001	1.000	97.678		0.155	97.7
3	1,2,3,4,7,8-HxCDD	1.92e5	1.30	NO	1.03	10.000	34.835	34.85	1.000	1.001	100.79		0.370	101
4	1,2,3,6,7,8-HxCDD	2.37e5	1.13	NO	0.892	10.000	34.932	34.95	1.000	1.001	104.09		0.370	104
5	1,2,3,7,8,9-HxCDD	2.05e5	1.17	NO	0.887	10.000	35.254	35.23	1.001	1.000	106.65		0.448	107
6	1,2,3,4,6,7,8-HpCDD	1.49e5	1.03	NO	0.864	10.000	38.788	38.79	1.000	1.000	98.189		0.435	98.2
7	OCDD	2.43e5	0.88	NO	0.914	10.000	41.780	41.80	1.000	1.001	185.97		0.738	186
8	2,3,7,8-TCDF	6.85e4	0.75	NO	0.751	10.000	25.587	25.59	1.001	1.001	20.852		0.0571	20.9
9	1,2,3,7,8-PeCDF	3.24e5	1.61	NO	0.893	10.000	30.175	30.17	1.001	1.000	108.04		0.252	108
10	2,3,4,7,8-PeCDF	3.41e5	1.59	NO	0.935	10.000	31.165	31.16	1.001	1.000	111.69		0.235	112
11	1,2,3,4,7,8-HxCDF	2.12e5	1.20	NO	0.884	10.000	33.952	33.96	1.000	1.000	104.99		0.350	105
12	1,2,3,6,7,8-HxCDF	2.62e5	1.22	NO	0.889	10.000	34.079	34.09	1.000	1.001	114.39		0.345	114
13	2,3,4,6,7,8-HxCDF	2.21e5	1.21	NO	0.934	10.000	34.686	34.69	1.001	1.001	101.74		0.364	102
14	1,2,3,7,8,9-HxCDF	1.94e5	1.23	NO	0.871	10.000	35.613	35.59	1.001	1.000	105.87		0.568	106
15	1,2,3,4,6,7,8-HpCDF	1.74e5	1.00	NO	0.873	10.000	37.408	37.38	1.001	1.000	110.61		0.487	111
16	1,2,3,4,7,8,9-HpCDF	1.34e5	1.01	NO	1.01	10.000	39.330	39.34	1.000	1.000	105.74		0.577	106
17	OCDF	2.60e5	0.86	NO	0.806	10.000	41.972	41.98	1.000	1.000	206.90		0.452	207
18	13C-2,3,7,8-TCDD	7.04e5	0.75	NO	1.16	10.000	26.448	26.45	1.025	1.026	159.12	79.6	0.221	
19	13C-1,2,3,7,8-PeCDD	4.88e5	0.62	NO	0.849	10.000	31.457	31.45	1.219	1.219	150.39	75.2	0.281	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.28	NO	0.779	10.000	34.820	34.83	1.014	1.014	145.52	72.8	0.511	
21	13C-1,2,3,6,7,8-HxCDD	5.11e5	1.28	NO	1.02	10.000	34.920	34.93	1.017	1.017	154.13	77.1	0.391	
22	13C-1,2,3,7,8,9-HxCDD	4.34e5	1.28	NO	0.903	10.000	35.229	35.22	1.026	1.025	147.45	73.7	0.441	
23	13C-1,2,3,4,6,7,8-HpCDD	3.51e5	1.06	NO	0.689	10.000	38.773	38.78	1.129	1.129	156.41	78.2	0.378	
24	13C-OCDD	5.73e5	0.89	NO	0.652	10.000	41.778	41.78	1.216	1.216	269.62	67.4	0.551	
25	13C-2,3,7,8-TCDF	8.75e5	0.79	NO	1.06	10.000	25.555	25.56	0.991	0.991	152.78	76.4	0.311	
26	13C-1,2,3,7,8-PeCDF	6.73e5	1.60	NO	0.838	10.000	30.175	30.15	1.170	1.169	148.41	74.2	0.539	
27	13C-2,3,4,7,8-PeCDF	6.54e5	1.58	NO	0.817	10.000	31.147	31.15	1.207	1.207	148.14	74.1	0.553	
28	13C-1,2,3,4,7,8-HxCDF	4.56e5	0.51	NO	1.01	10.000	33.954	33.95	0.989	0.989	138.79	69.4	0.606	
29	13C-1,2,3,6,7,8-HxCDF	5.15e5	0.52	NO	1.17	10.000	34.071	34.07	0.992	0.992	135.51	67.8	0.523	
30	13C-2,3,4,6,7,8-HxCDF	4.65e5	0.51	NO	1.02	10.000	34.648	34.67	1.009	1.009	139.57	69.8	0.597	
31	13C-1,2,3,7,8,9-HxCDF	4.21e5	0.50	NO	0.860	10.000	35.579	35.59	1.036	1.036	150.23	75.1	0.710	

Dataset: U:\VG12.PRO\Results\200709R1\200709R1-2.qld

Last Altered: Friday, July 10, 2020 8:16:13 AM Pacific Daylight Time
Printed: Friday, July 10, 2020 8:18:08 AM Pacific Daylight Time

Name: 200709R1_2, Date: 09-Jul-2020, Time: 08:38:20, ID: B0F0280-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	DL	EMPG	
32	13C-1,2,3,4,6,7,8-HpCDF	3.61e5	0.41	NO	0.774	10.000	37.362	37.37	1.088	1.088	142.98	71.5	0.462	
33	13C-1,2,3,4,7,8,9-HpCDF	2.50e5	0.43	NO	0.521	10.000	39.333	39.33	1.145	1.145	147.27	73.6	0.687	
34	13C-OCDF	6.24e5	0.87	NO	0.746	10.000	41.967	41.97	1.222	1.222	256.73	64.2	0.381	
35	37Cl-2,3,7,8-TCDD	2.84e5			1.04	10.000	26.466	26.47	1.026	1.026	71.535	89.4	0.0336	
36	13C-1,2,3,4-TCDD	7.65e5	0.80	NO	1.00	10.000	25.740	25.80	1.000	1.000	200.00	100	0.256	
37	13C-1,2,3,4-TCDF	1.08e6	0.80	NO	1.00	10.000	24.030	24.10	1.000	1.000	200.00	100	0.329	
38	13C-1,2,3,4,6,9-HxCDF	6.52e5	0.51	NO	1.00	10.000	34.290	34.35	1.000	1.000	200.00	100	0.610	
39	Total Tetra-Dioxins				0.888	10.000	24.620		0.000		20.812		0.0841	20.8
40	Total Penta-Dioxins				0.908	10.000	29.960		0.000		97.678		0.155	97.7
41	Total Hexa-Dioxins				0.892	10.000	33.635		0.000		311.53		0.411	312
42	Total Hepta-Dioxins				0.864	10.000	38.800		0.000		98.189		0.435	98.9
43	Total Tetra-Furans				0.751	10.000	23.610		0.000		20.852		0.0571	21.0
44	1st Func. Penta-Furans				0.893	10.000	27.040		0.000				0.0163	
45	Total Penta-Furans				0.893	10.000	29.275		0.000		219.93		0.250	221
46	Total Hexa-Furans				0.934	10.000	33.555		0.000		427.36		0.384	428
47	Total Hepta-Furans				0.873	10.000	37.835		0.000		216.35		0.562	217

Dataset: U:\VG12.PRO\Results\200709R1\200709R1-2.qld

Last Altered: Friday, July 10, 2020 8:16:13 AM Pacific Daylight Time

Printed: Friday, July 10, 2020 8:18:08 AM Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200709R1_2, Date: 09-Jul-2020, Time: 08:38:20, ID: B0F0280-BS1 OPR 10, Description: OPR

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	26.18	6.540e3	7.452e3	5.262e2	7.582e2	0.69	NO	1.284e3	0.41097	0.41097	0.0841
2,3,7,8-TCDD	26.48	3.760e5	4.926e5	2.730e4	3.646e4	0.75	NO	6.376e4	20.401	20.401	0.0841

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,7,8-PeCDD	31.47	1.344e6	2.125e6	8.299e4	1.336e5	0.62	NO	2.165e5	97.678	97.678	0.155

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,4,7,8-HxCDD	34.85	1.687e6	1.332e6	1.088e5	8.361e4	1.30	NO	1.924e5	100.79	100.79	0.370
1,2,3,6,7,8-HxCDD	34.95	1.710e6	1.416e6	1.258e5	1.113e5	1.13	NO	2.371e5	104.09	104.09	0.370
1,2,3,7,8,9-HxCDD	35.23	1.420e6	1.146e6	1.105e5	9.465e4	1.17	NO	2.051e5	106.65	106.65	0.448
Total Hexa-Dioxins	35.63	7.499e3	8.134e3	3.759e2	2.306e2	1.63	YES	0.000e0	0.00000	0.26437	0.411

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.81	7.232e3	7.322e3	5.254e2	6.468e2	0.81	YES	0.000e0	0.00000	0.67926	0.435
1,2,3,4,6,7,8-HpCDD	38.79	8.307e5	8.157e5	7.567e4	7.329e4	1.03	NO	1.490e5	98.189	98.189	0.435

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
2,3,7,8-TCDF	25.59	3.706e5	4.802e5	2.937e4	3.914e4	0.75	NO	6.851e4	20.852	20.852	0.0571
Total Tetra-Furans	25.81	6.169e3	4.629e3	3.677e2	2.346e2	1.57	YES	0.000e0	0.00000	0.12639	0.0571

Dataset: U:\VG12.PRO\Results\200709R1\200709R1-2.qld

Last Altered: Friday, July 10, 2020 8:16:13 AM Pacific Daylight Time
 Printed: Friday, July 10, 2020 8:18:08 AM Pacific Daylight Time

Name: 200709R1_2, Date: 09-Jul-2020, Time: 08:38:20, ID: B0F0280-BS1 OPR 10, Description: OPR

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Conc	EMPC	DL
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Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Conc	EMPC	DL
Total Penta-Furans	29.18	1.059e4	6.268e3	8.509e2	4.173e2	2.04	YES	0.000e0	0.00000	0.35949	0.250
Total Penta-Furans	30.02	6.501e3	5.208e3	3.535e2	2.414e2	1.46	NO	5.949e2	0.20094	0.20094	0.250
1,2,3,7,8-PeCDF	30.17	3.147e6	2.027e6	2.000e5	1.243e5	1.61	NO	3.243e5	108.04	108.04	0.252
Total Penta-Furans	30.38	4.226e4	5.640e3	4.388e3	3.934e2	11.00	YES	0.000e0	0.00000	0.33885	0.250
2,3,4,7,8-PeCDF	31.16	3.557e6	2.264e6	2.098e5	1.317e5	1.59	NO	3.415e5	111.66	111.66	0.235
Total Penta-Furans	32.11	1.307e4	9.731e3	6.984e2	6.768e2	1.03	YES	0.000e0	0.00000	0.38813	0.250

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Conc	EMPC	DL
Total Hexa-Furans	32.80	4.159e3	3.707e3	3.093e2	2.137e2	1.45	YES	0.000e0	0.00000	0.22085	0.384
Total Hexa-Furans	32.97	8.556e3	5.601e3	4.557e2	3.576e2	1.27	NO	8.133e2	0.37523	0.37523	0.384
1,2,3,4,7,8-HxCDF	33.96	1.960e6	1.673e6	1.155e5	9.608e4	1.20	NO	2.115e5	104.99	104.99	0.350
1,2,3,6,7,8-HxCDF	34.09	2.112e6	1.700e6	1.440e5	1.180e5	1.22	NO	2.620e5	114.39	114.39	0.345
2,3,4,6,7,8-HxCDF	34.69	1.739e6	1.445e6	1.209e5	9.994e4	1.21	NO	2.208e5	101.74	101.74	0.364
1,2,3,7,8,9-HxCDF	35.59	1.224e6	1.009e6	1.068e5	8.715e4	1.23	NO	1.939e5	105.87	105.87	0.568

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Conc	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.38	9.450e5	9.300e5	8.713e4	8.715e4	1.00	NO	1.743e5	110.61	110.61	0.487
Total Hepta-Furans	37.76	4.182e3	6.795e3	2.723e2	4.997e2	0.55	YES	0.000e0	0.00000	0.40053	0.562
1,2,3,4,7,8,9-HpCDF	39.34	8.078e5	8.073e5	6.712e4	6.676e4	1.01	NO	1.339e5	105.74	105.74	0.577
Total Hepta-Furans	39.68	6.923e3	1.315e4	2.131e2	6.909e2	0.31	YES	0.000e0	0.00000	0.31344	0.562

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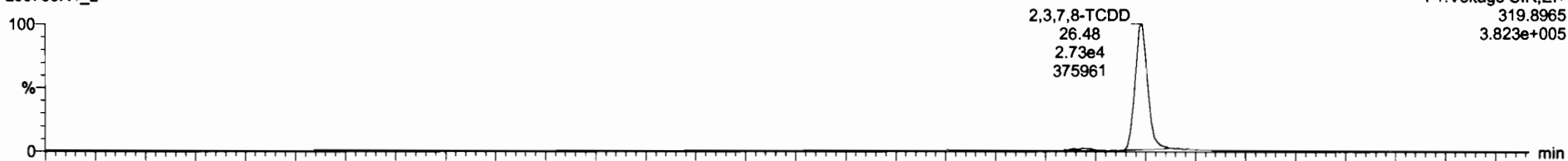
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Printed: Friday, July 10, 2020 7:47:29 AM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

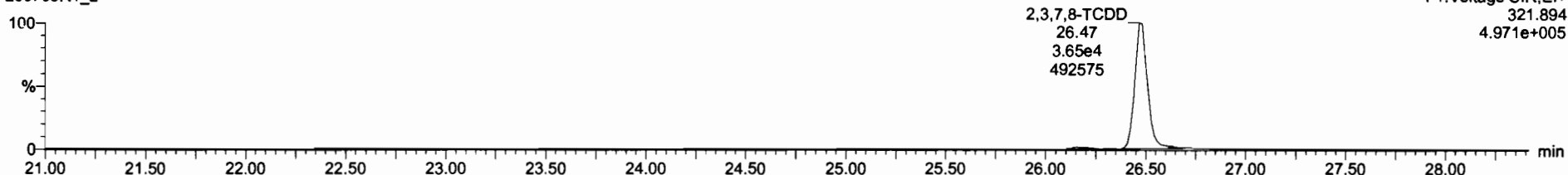
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2,3,7,8-TCDD

200709R1_2

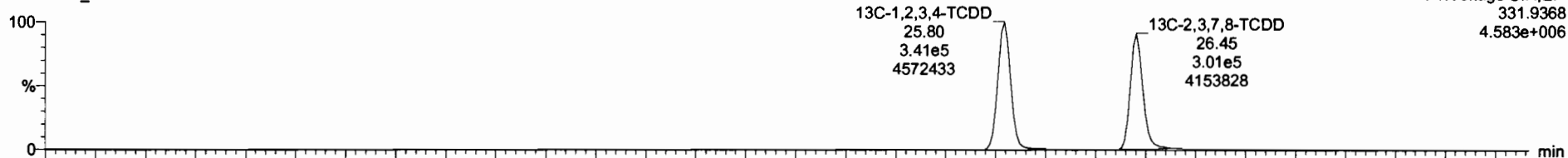


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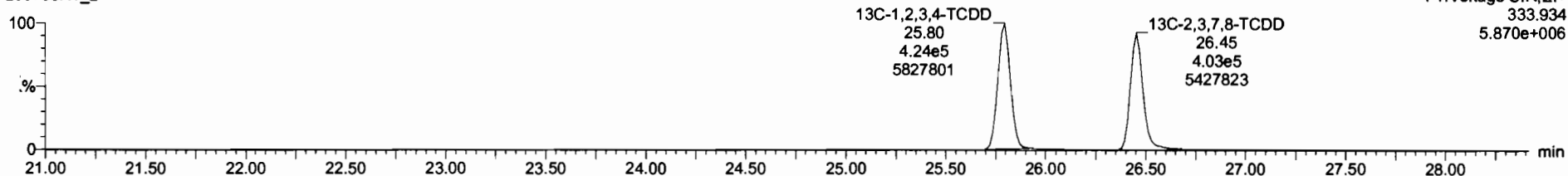


13C-2,3,7,8-TCDD

200709R1_2



200709R1_2



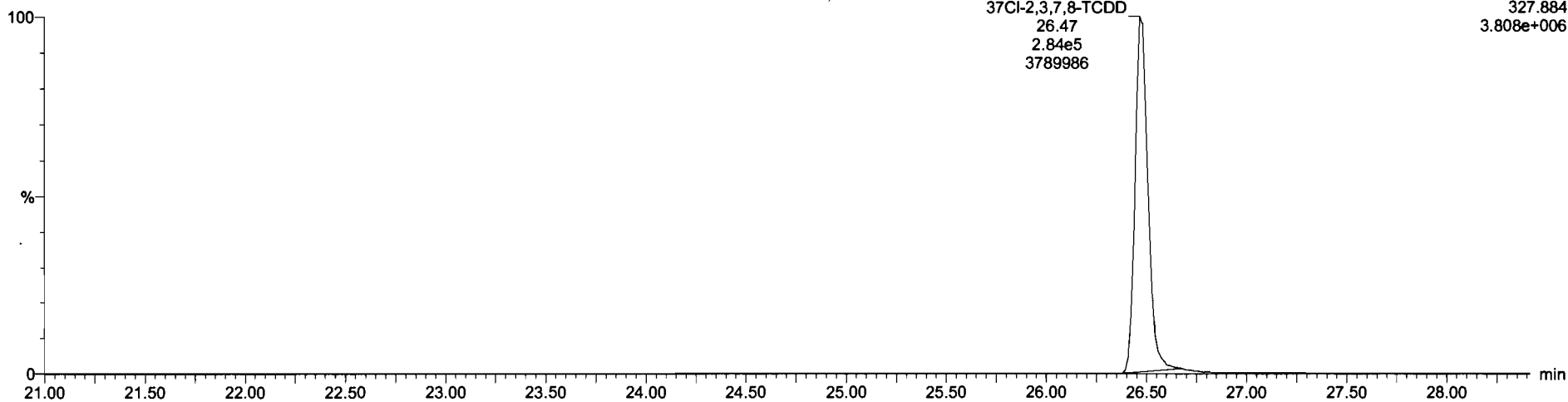
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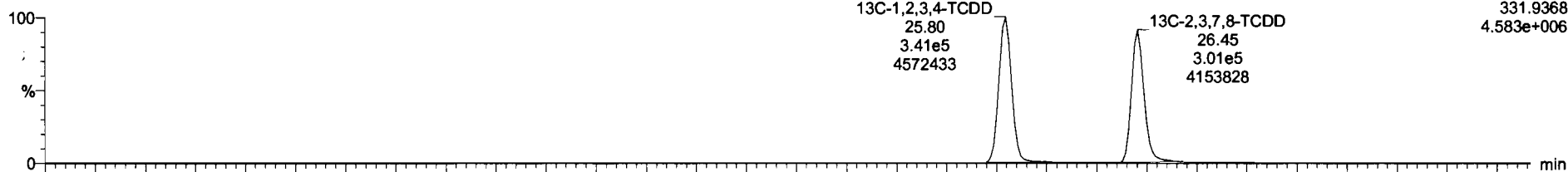
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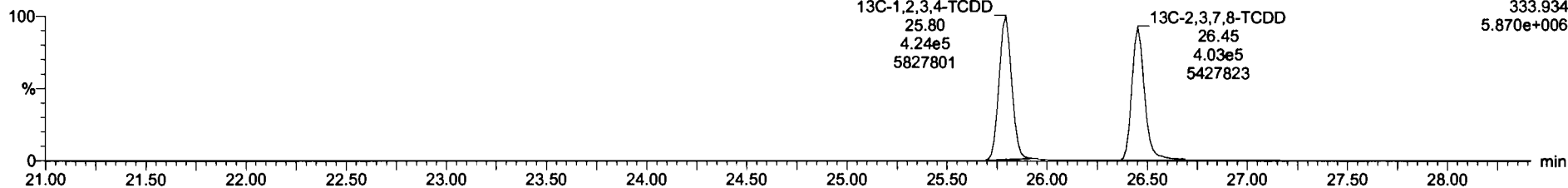


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200709R1_2



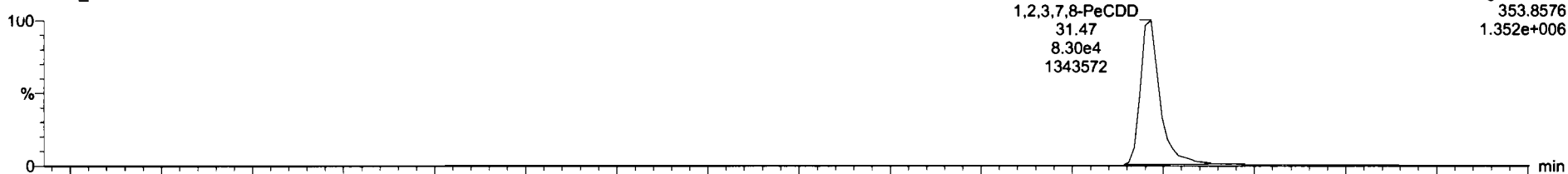
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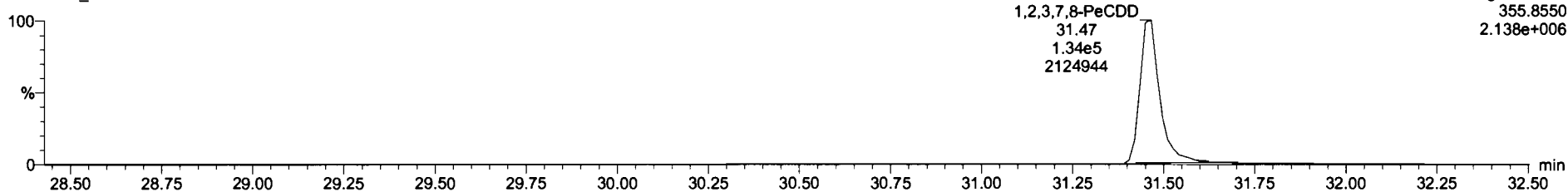
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1,2,3,7,8-PeCDD

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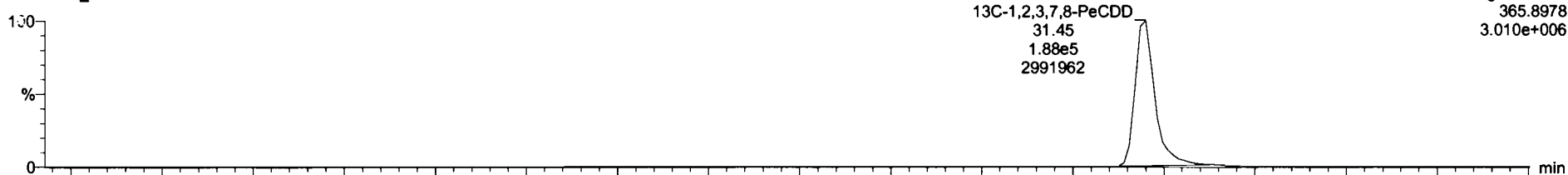


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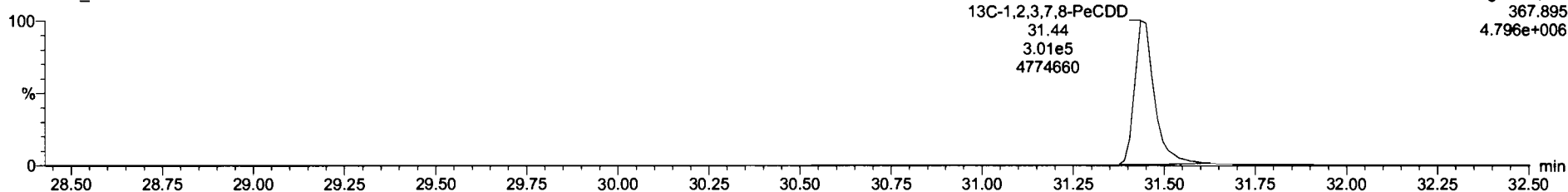


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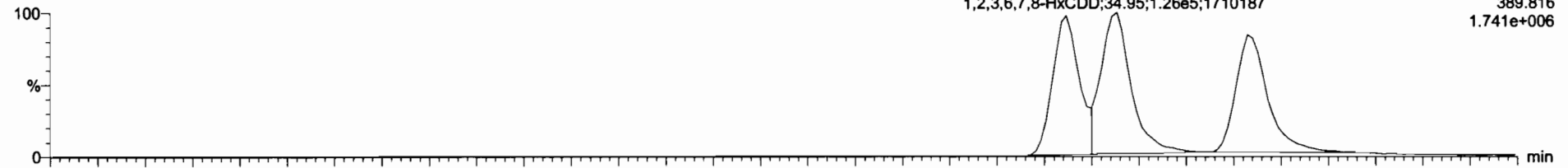
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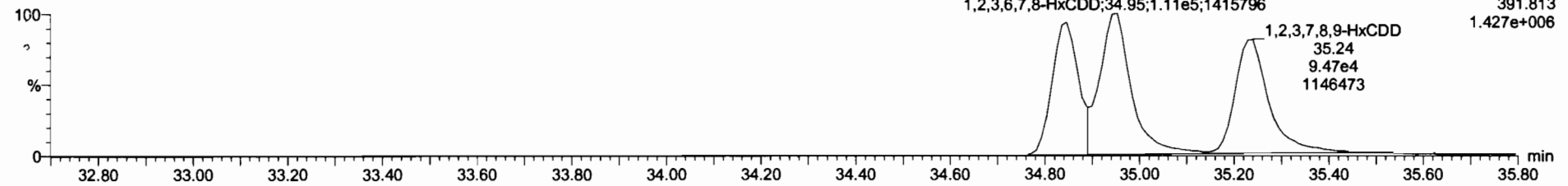
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1,2,3,4,7,8-HxCDD

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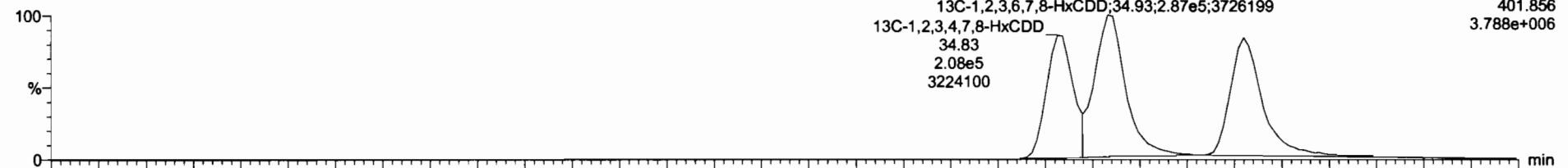


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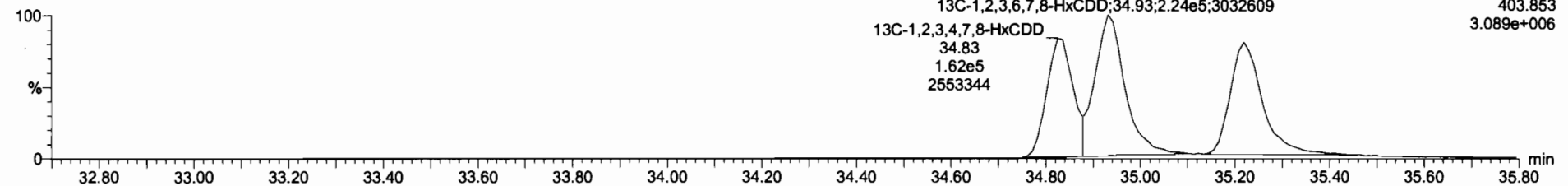


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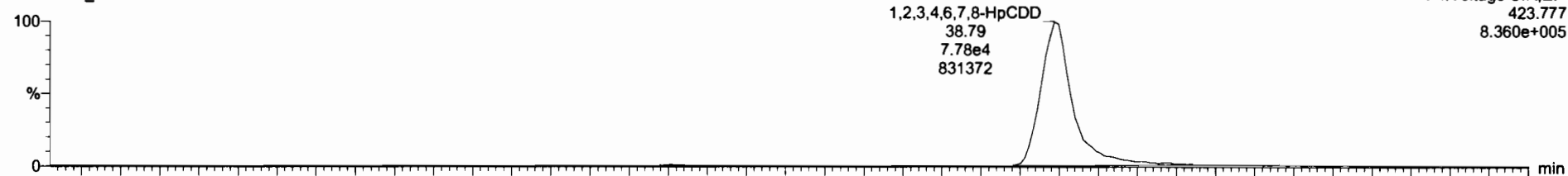
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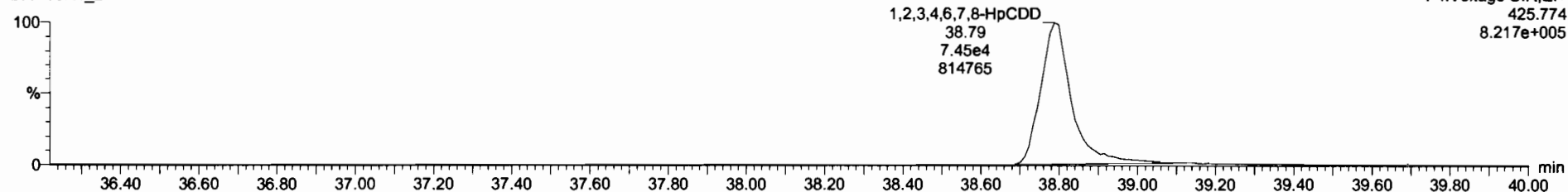
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200709R1_2



F4:Voltage SIR,EI+
423.777
8.360e+005

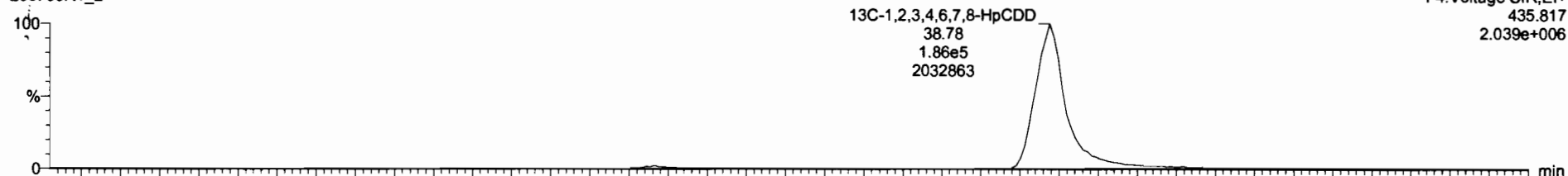
200709R1_2



F4:Voltage SIR,EI+
425.774
8.217e+005

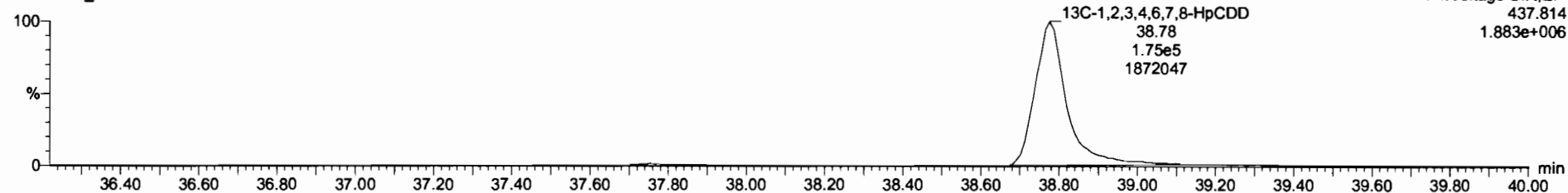
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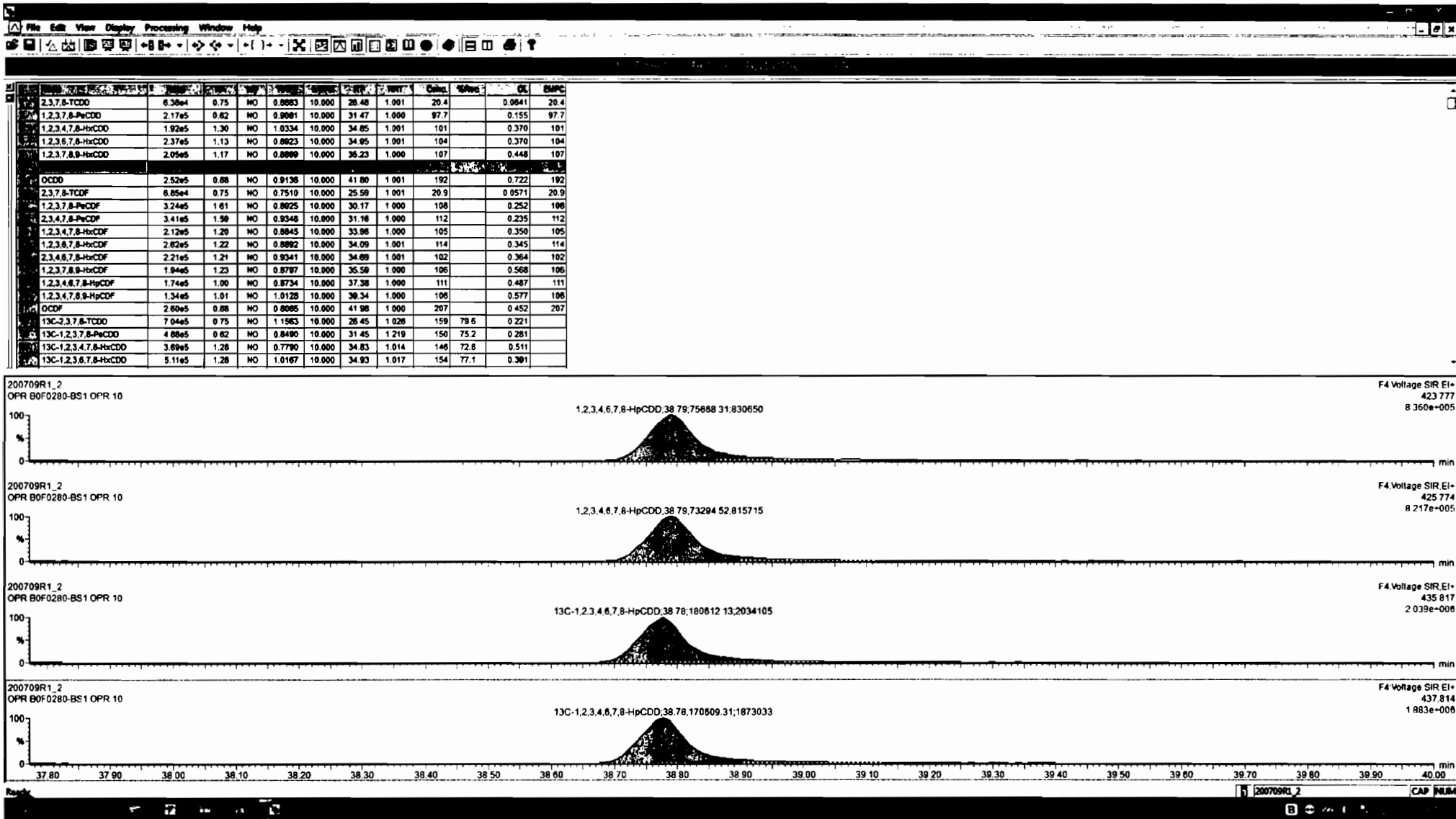


F4:Voltage SIR,EI+
435.817
2.039e+006

200709R1_2



F4:Voltage SIR,EI+
437.814
1.883e+006



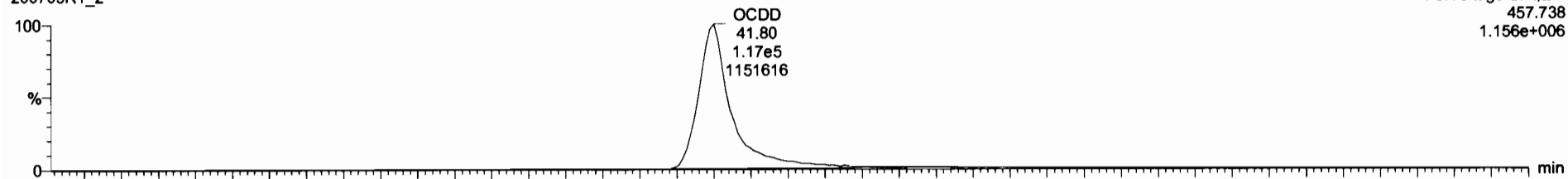
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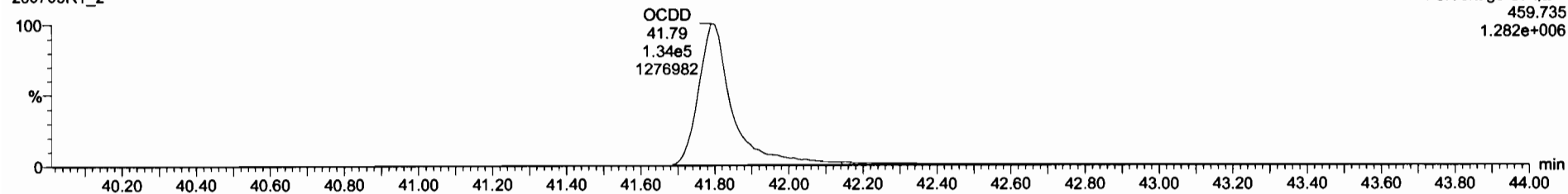
OCDD

200709R1_2



F5:Voltage SIR,EI+
457.738
1.156e+006

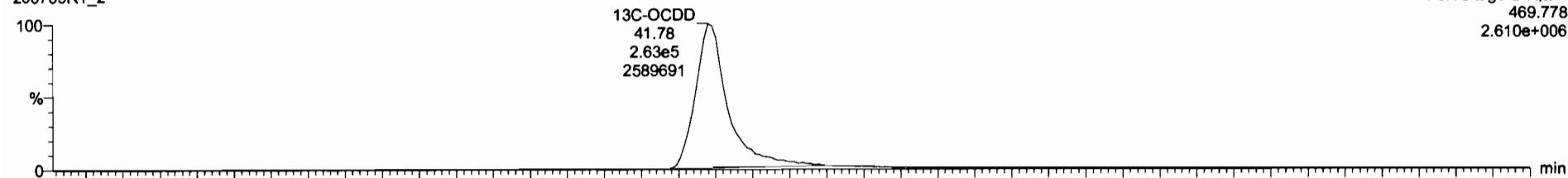
200709R1_2



F5:Voltage SIR,EI+
459.735
1.282e+006

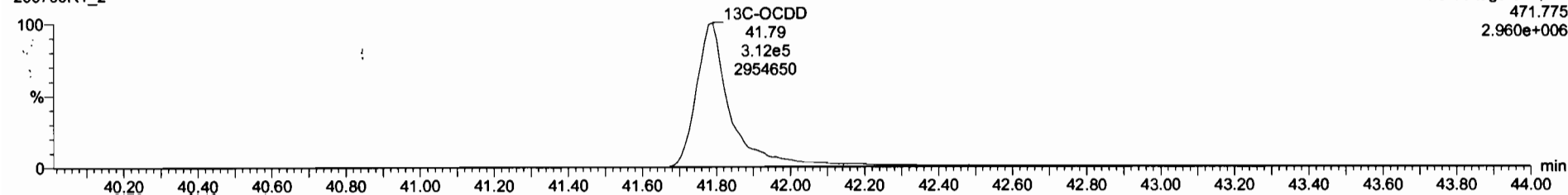
¹³C-OCDD

200709R1_2

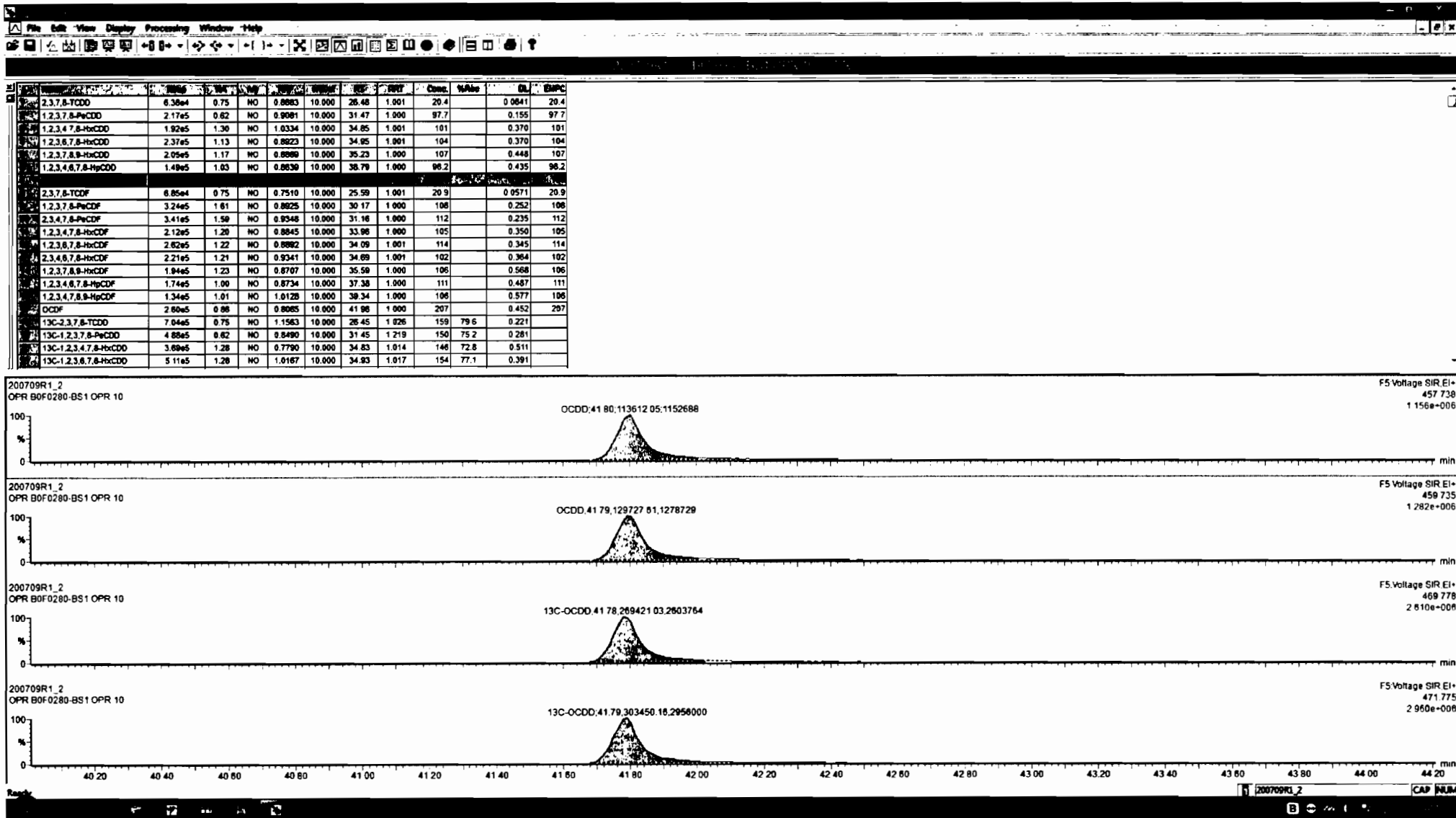


F5:Voltage SIR,EI+
469.778
2.610e+006

200709R1_2



F5:Voltage SIR,EI+
471.775
2.960e+006



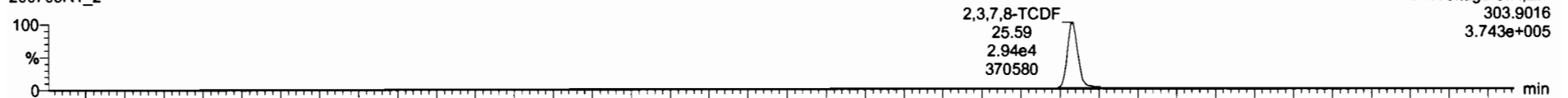
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Last Altered: Friday, July 10, 2020 7:46:32 AM Pacific Daylight Time
Printed: Friday, July 10, 2020 7:47:29 AM Pacific Daylight Time

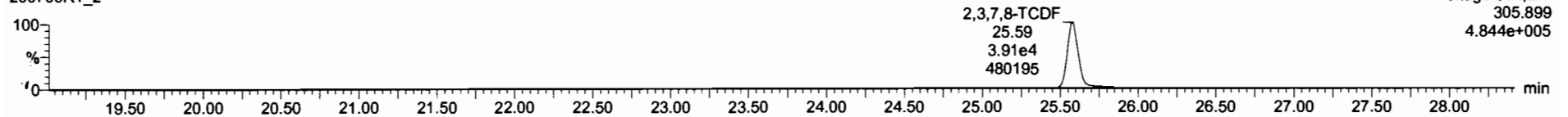
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2,3,7,8-TCDF

200709R1_2

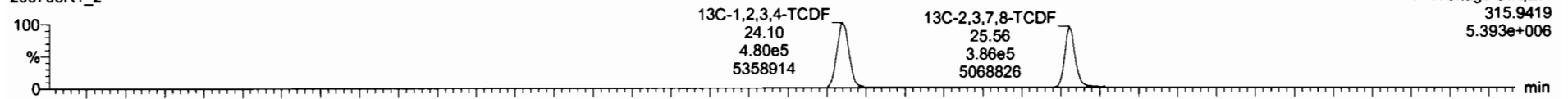


200709R1_2

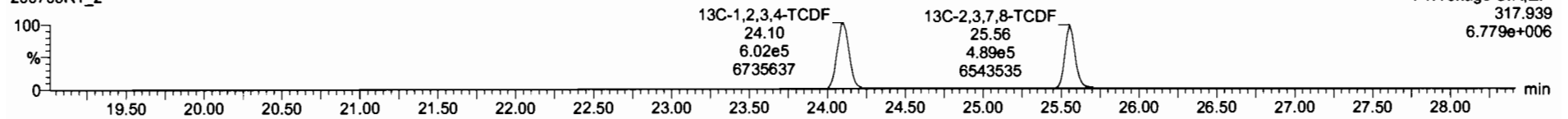


13C-2,3,7,8-TCDF

200709R1_2

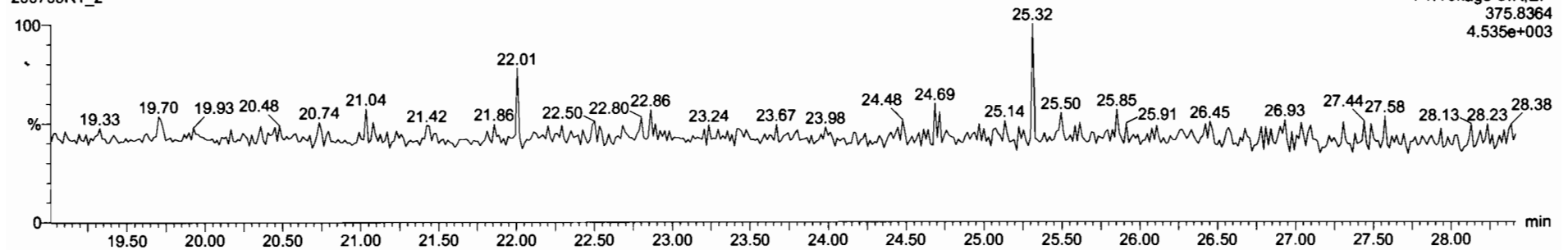


200709R1_2



DPE1

200709R1_2



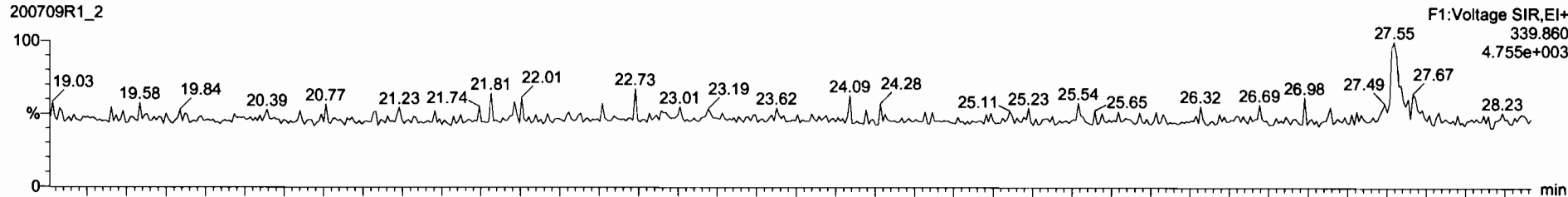
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Printed: Friday, July 10, 2020 7:47:29 AM Pacific Daylight Time

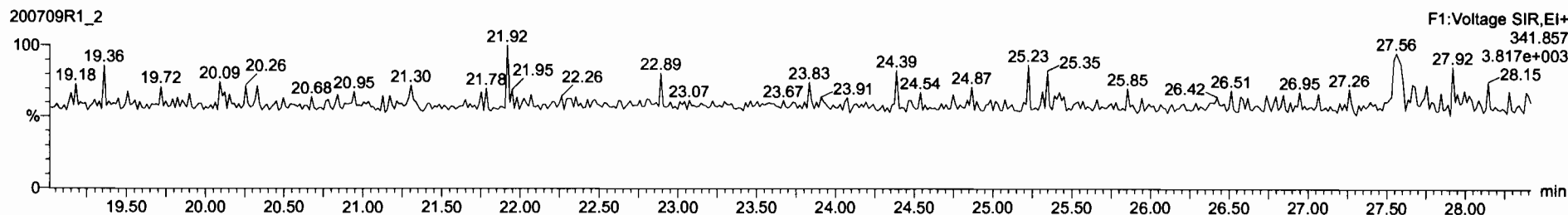
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1st Func. Penta-Furans

200709R1_2

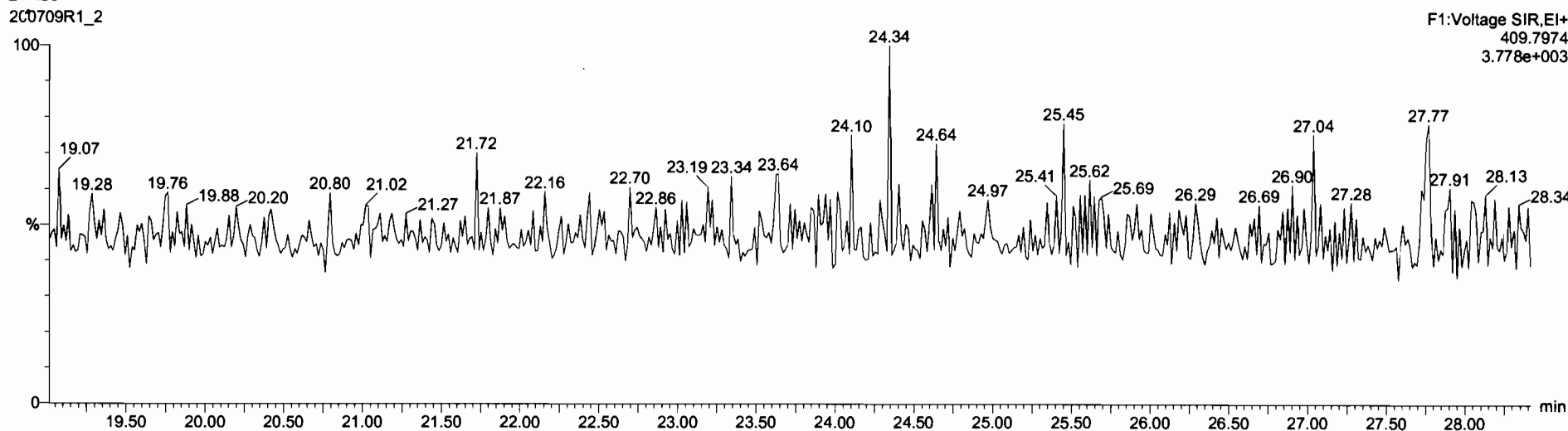


200709R1_2



DPE6

200709R1_2



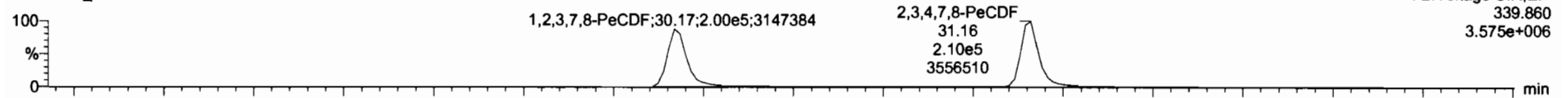
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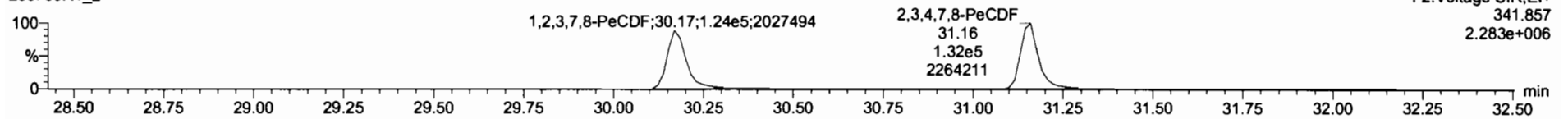
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1,2,3,7,8-PeCDF

200709R1_2

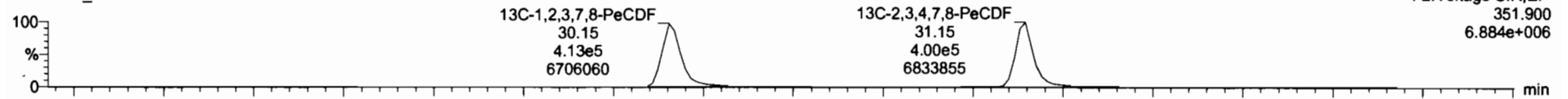


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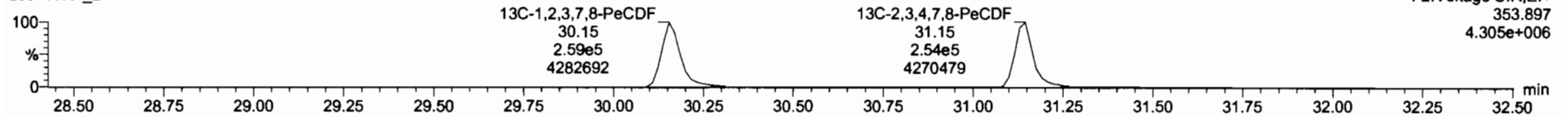


13C-1,2,3,7,8-PeCDF

200709R1_2

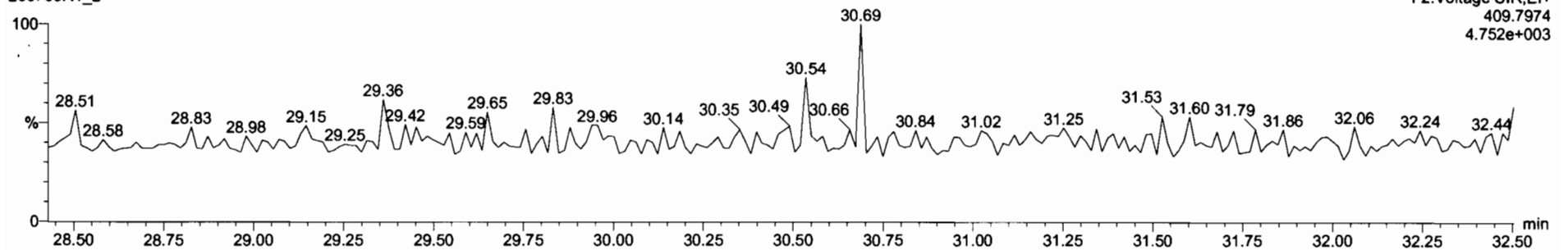


200709R1_2



DPE2

200709R1_2



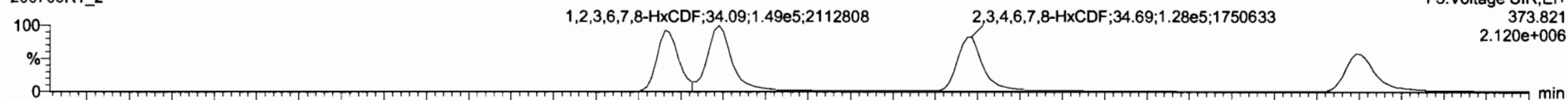
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Printed: Friday, July 10, 2020 7:47:29 AM Pacific Daylight Time

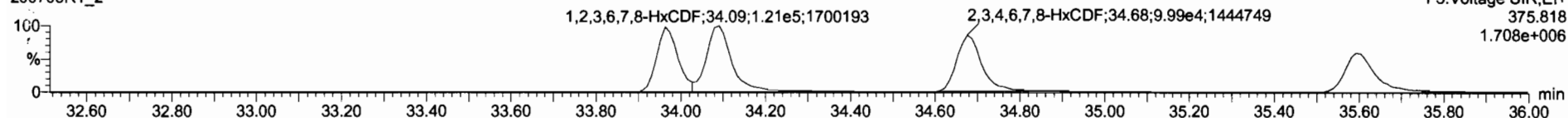
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1,2,3,4,7,8-HxCDF

200709R1_2

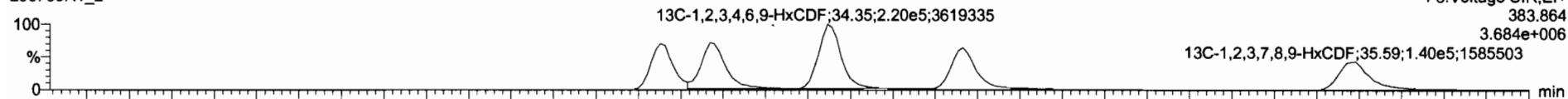


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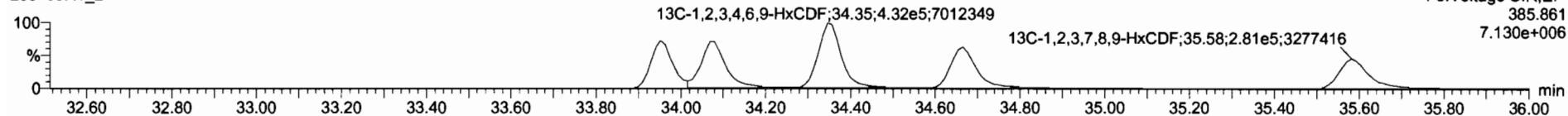


13C-1,2,3,4,7,8-HxCDF

200709R1_2

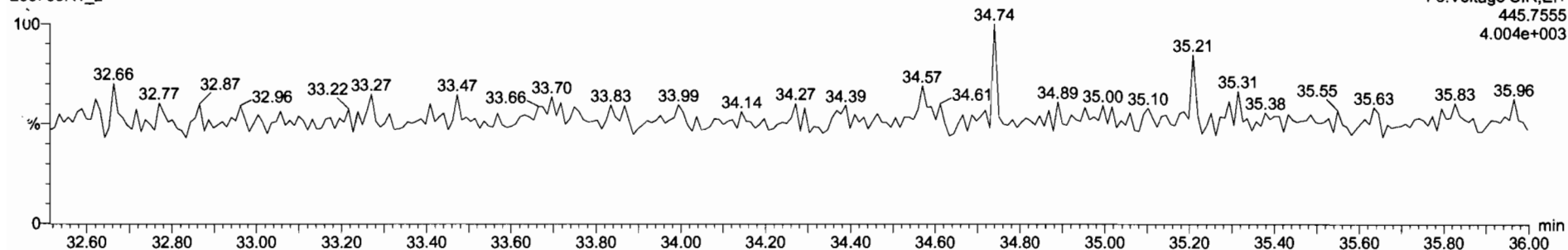


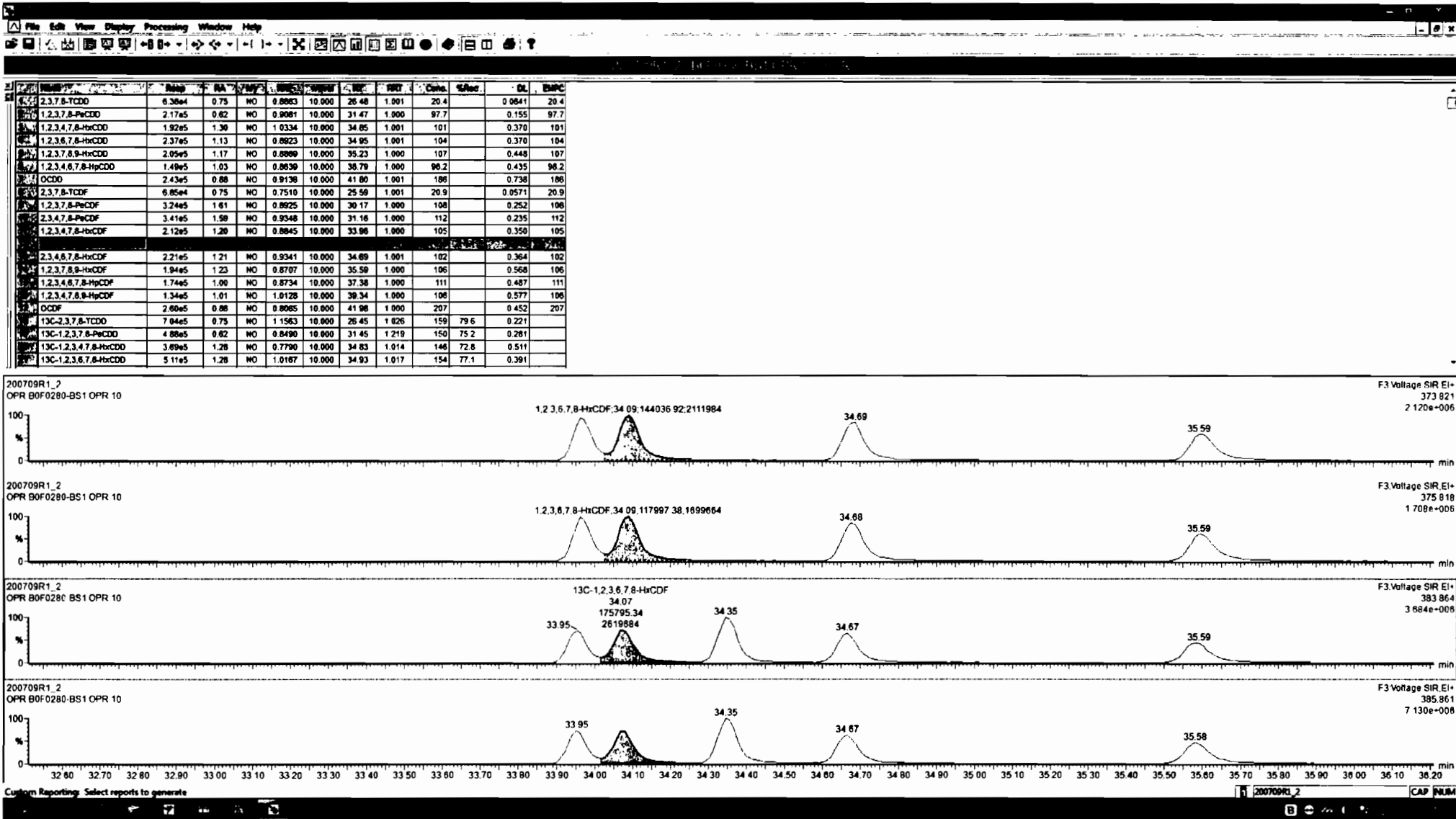
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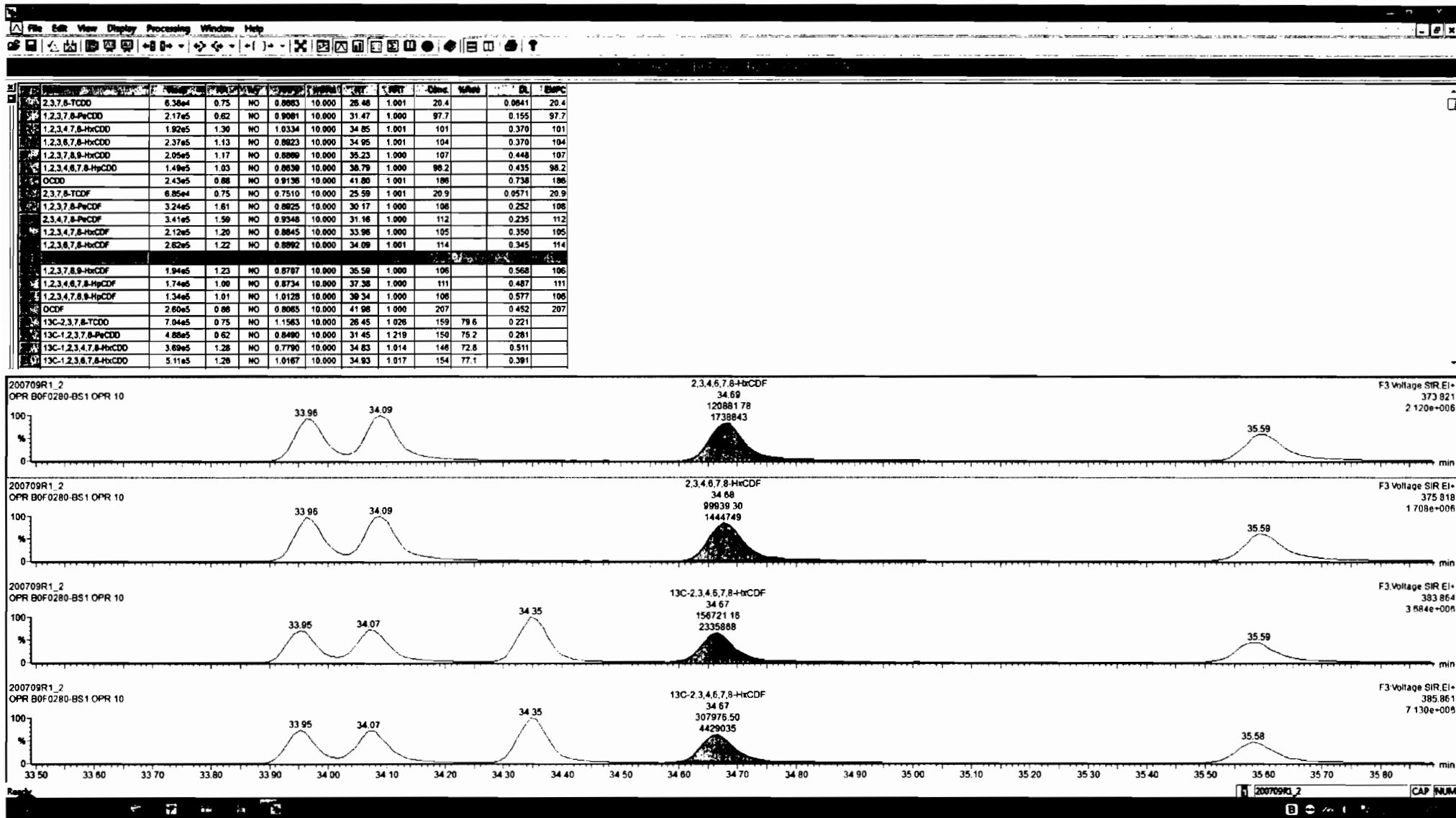


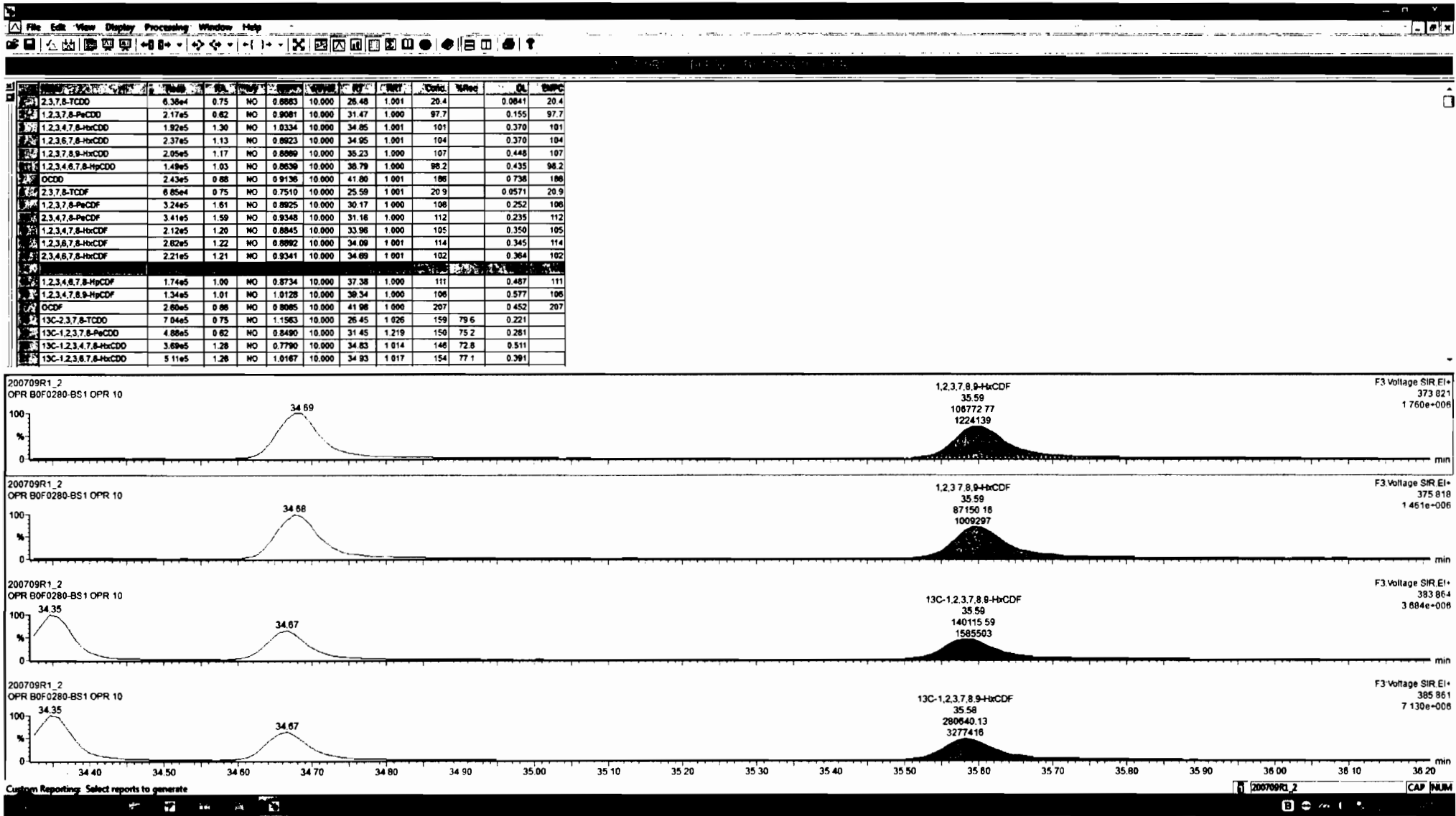
DPE3

200709R1_2









Dataset: Untitled

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Printed: Friday, July 10, 2020 7:47:29 AM Pacific Daylight Time

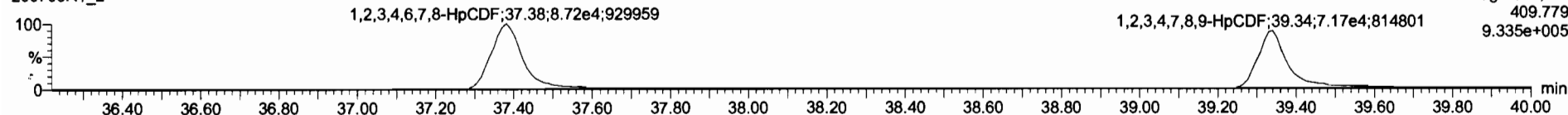
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1,2,3,4,6,7,8-HpCDF

200709R1_2

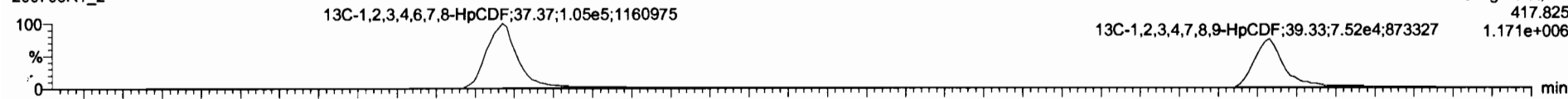


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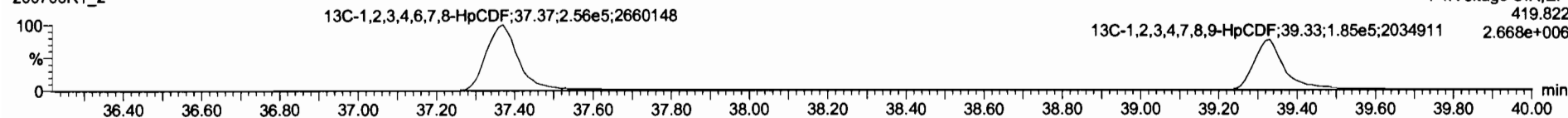


13C-1,2,3,4,6,7,8-HpCDF

200709R1_2

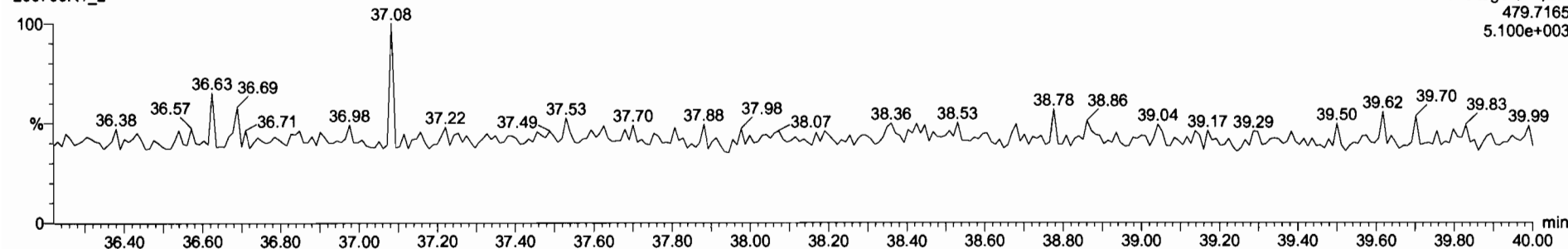


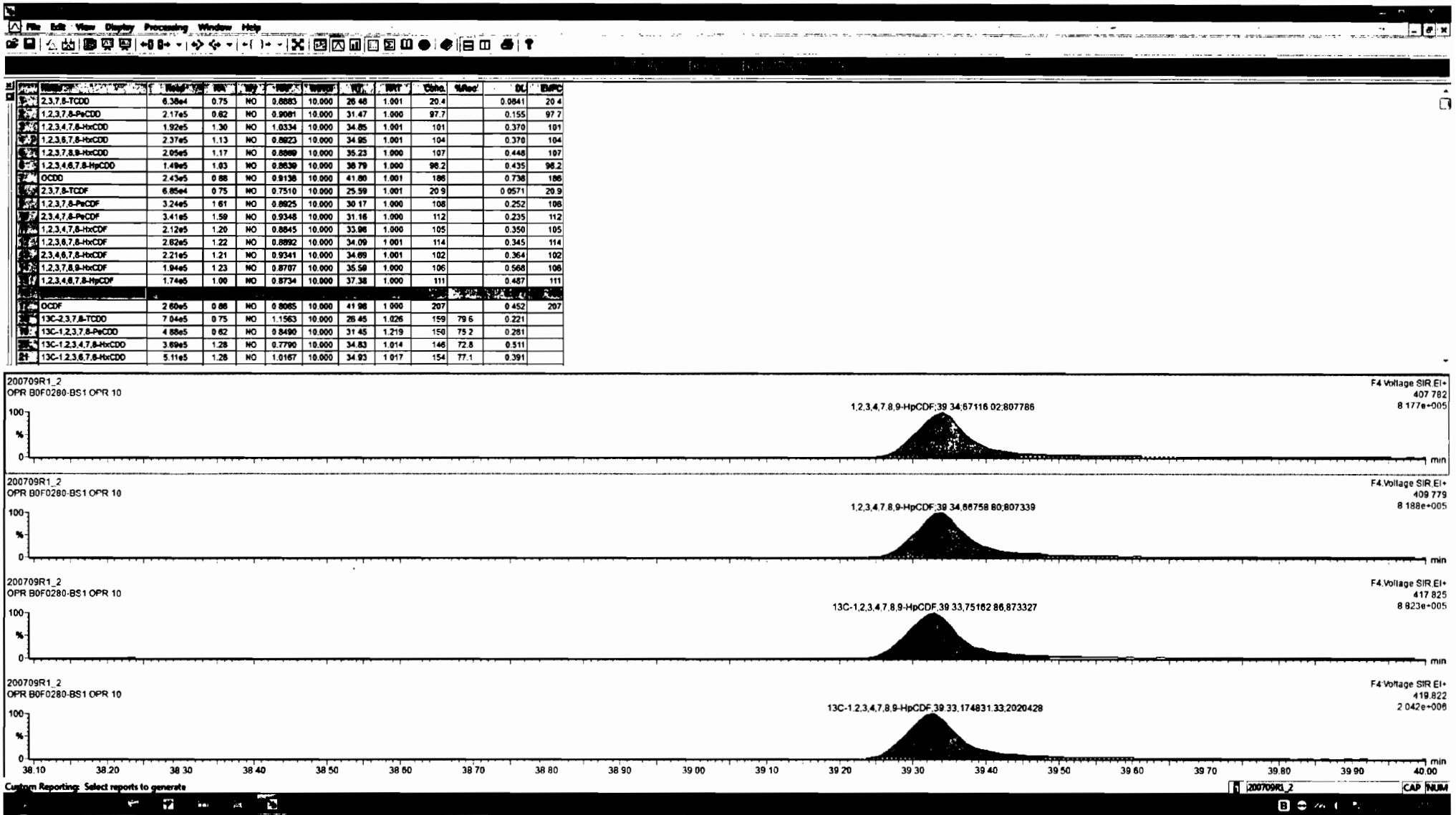
200709R1_2



DPE4

200709R1_2





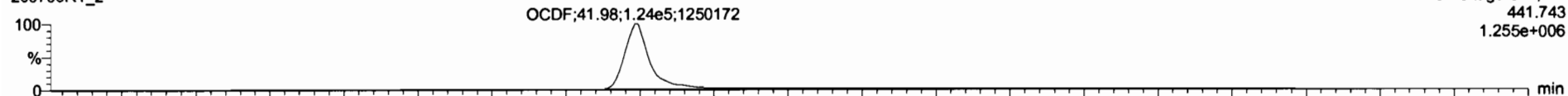
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Last Altered: Friday, July 10, 2020 7:46:32 AM Pacific Daylight Time
Printed: Friday, July 10, 2020 7:47:29 AM Pacific Daylight Time

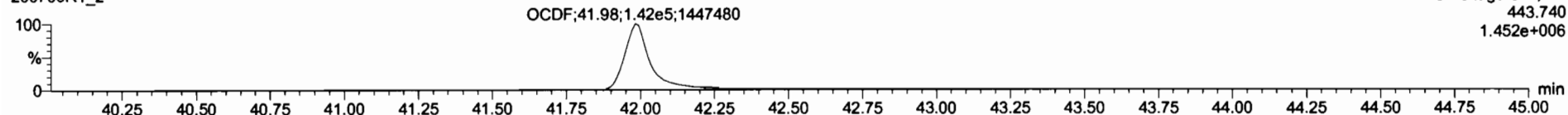
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OCDF

200709R1_2

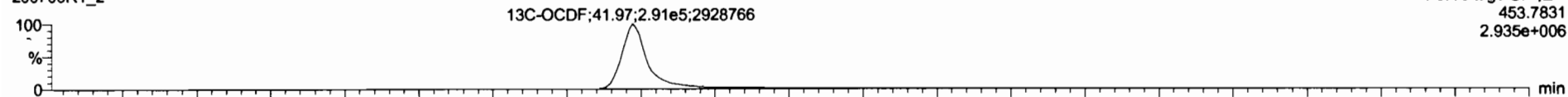


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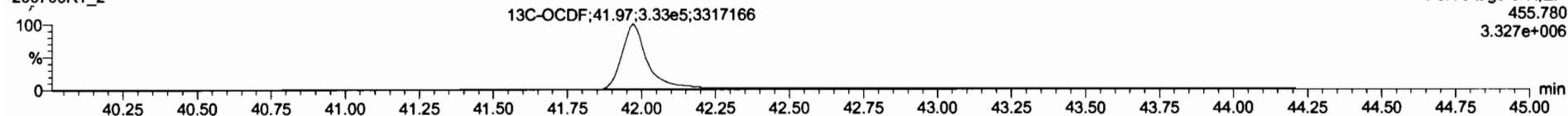


13C-OCDF

200709R1_2

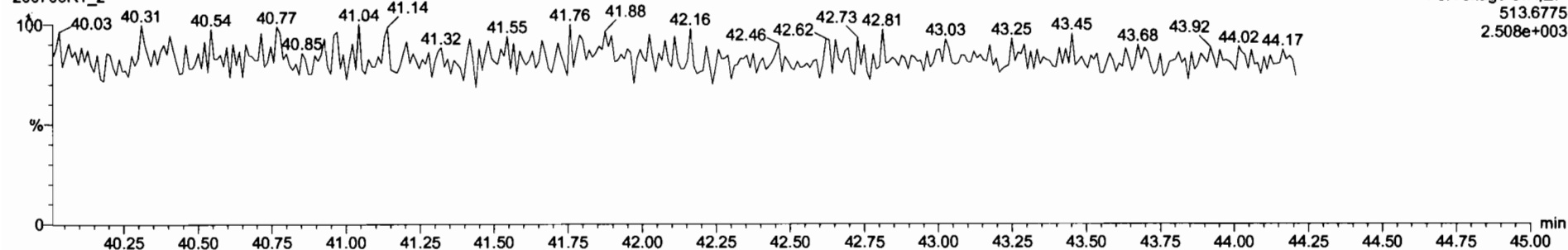


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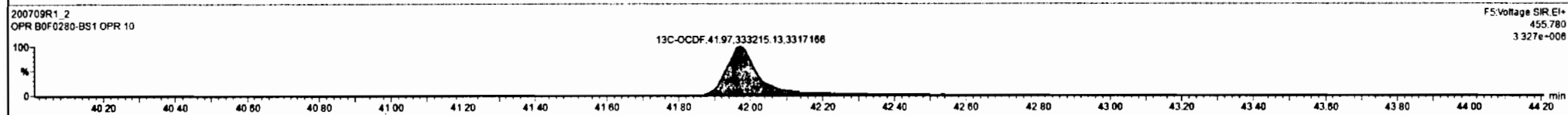
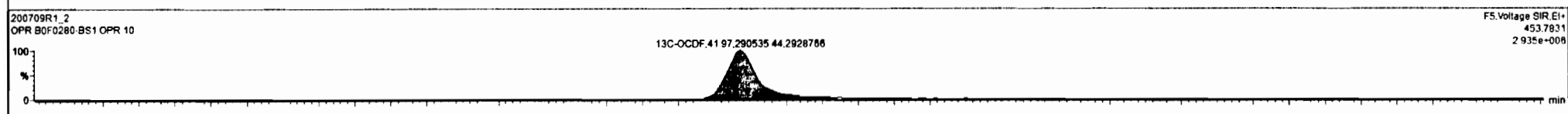
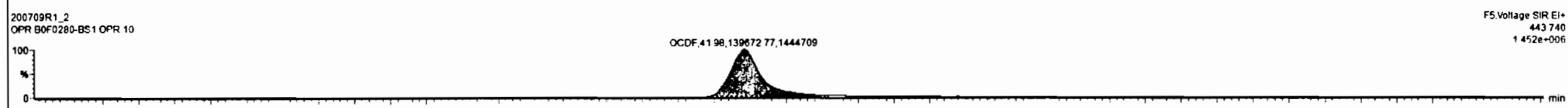
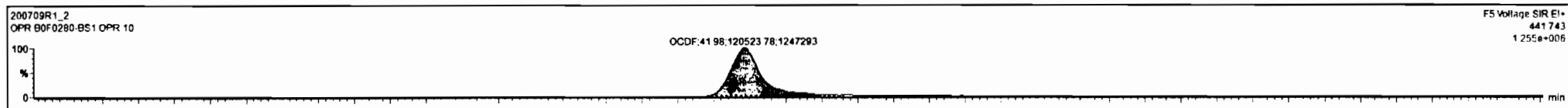


DPE5

200709R1_2



Contaminant	Rate	Yield	NO	Conc	10,000	26.48	1.001	20.4	UL	EMPC
2,3,7,8-TCDD	6.50e4	0.75	NO	0.8883	10,000	26.48	1.001	20.4	0.0641	20.4
1,2,3,7,8-PeCDD	2.17e5	0.62	NO	0.9081	10,000	31.47	1.000	97.7	0.155	97.7
1,2,3,4,7,8-HxCDD	1.92e5	1.30	NO	1.0334	10,000	34.85	1.001	101	0.370	101
1,2,3,6,7,8-HxCDD	2.37e5	1.13	NO	0.8823	10,000	34.95	1.001	104	0.370	104
1,2,3,7,8,9-HxCDD	2.05e5	1.17	NO	0.8889	10,000	35.23	1.000	107	0.448	107
1,2,3,4,6,7,8-HpCDD	1.49e5	1.03	NO	0.8630	10,000	36.79	1.000	98.2	0.435	98.2
OCDD	2.43e5	0.88	NO	0.9138	10,000	41.80	1.001	186	0.738	186
2,3,7,8-TCDF	6.85e4	0.75	NO	0.7510	10,000	25.59	1.001	20.9	0.0571	20.9
1,2,3,7,8-PeCDF	3.24e5	1.61	NO	0.8625	10,000	30.17	1.000	108	0.252	108
2,3,4,7,8-PeCDF	3.41e5	1.58	NO	0.9348	10,000	31.16	1.000	112	0.235	112
1,2,3,4,7,8-HxCDF	2.12e5	1.20	NO	0.8845	10,000	33.98	1.000	105	0.350	105
1,2,3,6,7,8-HxCDF	2.62e5	1.22	NO	0.8892	10,000	34.09	1.001	114	0.345	114
2,3,4,6,7,8-HxCDF	2.21e5	1.21	NO	0.9341	10,000	34.89	1.001	102	0.364	102
1,2,3,7,8,9-HxCDF	1.94e5	1.23	NO	0.8787	10,000	35.59	1.000	106	0.568	106
1,2,3,4,6,7,8-HpCDF	1.74e5	1.00	NO	0.8734	10,000	37.38	1.000	111	0.487	111
1,2,3,4,7,8,9-HpCDF	1.34e5	1.01	NO	1.0128	10,000	39.34	1.000	108	0.577	108
13C-2,3,7,8-TCDD	7.94e5	0.75	NO	1.1583	10,000	26.48	1.026	159	79.6	0.221
13C-1,2,3,7,8-PeCDD	4.88e5	0.62	NO	0.8490	10,000	31.45	1.219	150	75.2	0.281
13C-1,2,3,4,7,8-HxCDD	3.89e5	1.28	NO	0.7790	10,000	34.83	1.014	146	72.8	0.511
13C-1,2,3,6,7,8-HxCDD	5.11e5	1.28	NO	1.0167	10,000	34.93	1.017	154	77.1	0.391



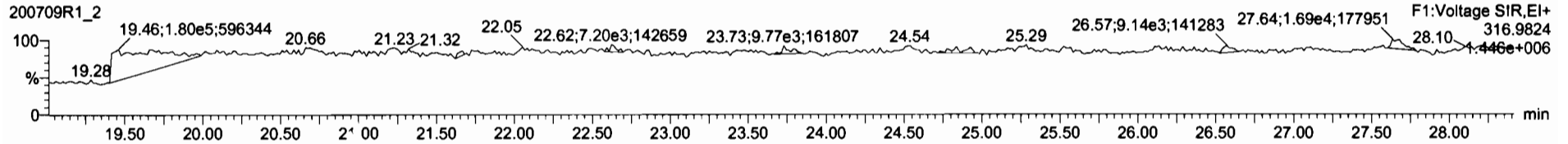
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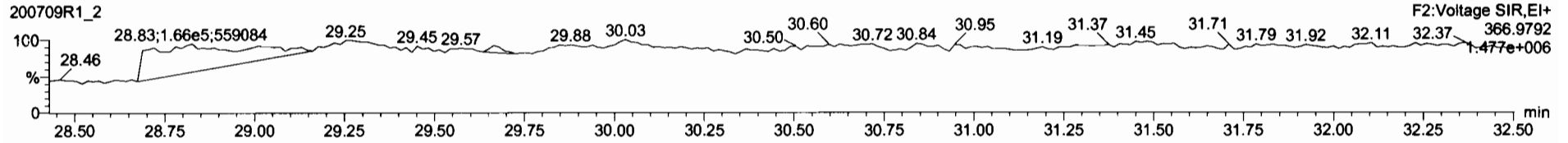
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Name: 200709R1_2, Date: 09-Jul-2020, Time: 08:38:20, ID: B0F0280-BS1 OPR 10, Description: OPR

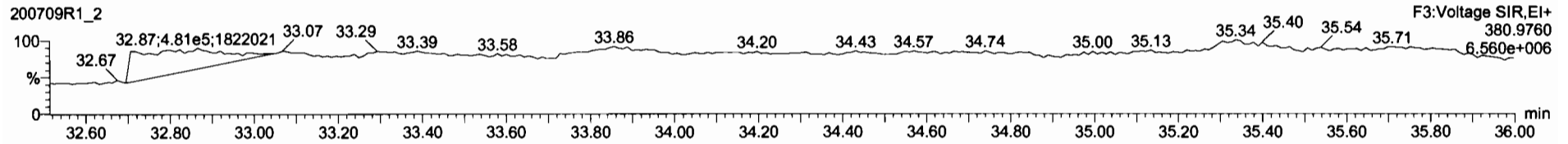
PFK1



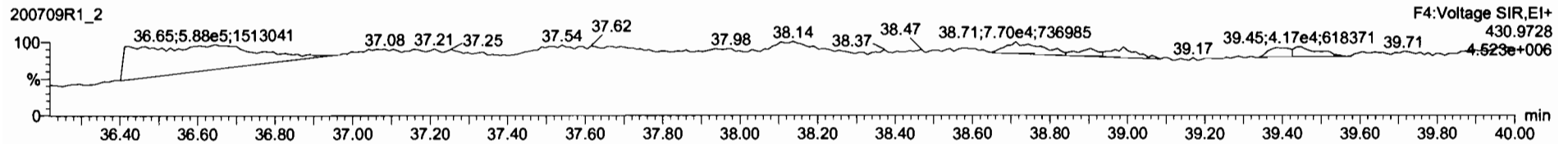
PFK2



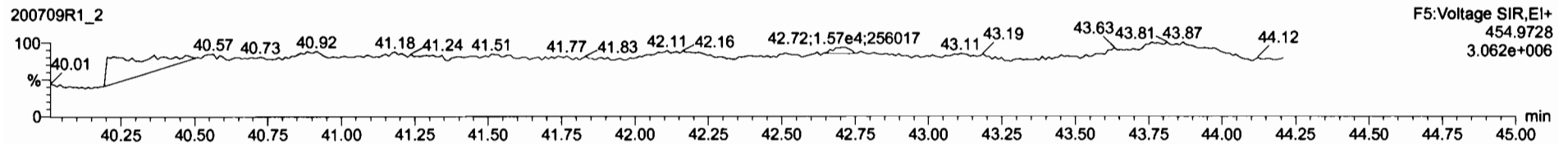
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200707R2\200707R2-15.qld

Last Altered: Wednesday, July 08, 2020 11:09:22 AM Pacific Daylight Time

Printed: Wednesday, July 08, 2020 11:09:46 AM Pacific Daylight Time

GRB 07/08/2020

07/17/2020

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.46e3	0.61	YES	0.888	10.055	26.486	26.48	1.001	1.001	0.70299		0.175	0.613
2	2 1,2,3,7,8-PeCDD	1.98e3	0.68	NO	0.908	10.055	31.473	31.45	1.001	1.000	1.4652		0.230	1.47
3	3 1,2,3,4,7,8-HxCDD	1.26e3	1.23	NO	1.03	10.055	34.846	34.87	1.000	1.001	1.2949		0.516	1.29
4	4 1,2,3,6,7,8-HxCDD	1.04e4	1.18	NO	0.892	10.055	34.943	34.96	1.000	1.001	10.172		0.520	10.2
5	5 1,2,3,7,8,9-HxCDD	3.44e3	1.11	NO	0.887	10.055	35.265	35.22	1.001	1.000	4.1131		0.698	4.11
6	6 1,2,3,4,6,7,8-HpCDD	3.11e5	0.99	NO	0.864	10.055	38.799	38.81	1.000	1.001	475.54		1.45	476
7	7 OCDD	1.45e6	0.88	NO	0.914	10.055	41.812	41.82	1.000	1.000	3143.6		3.07	3140
8	8 2,3,7,8-TCDF	3.63e4	0.74	NO	0.751	10.055	25.587	25.59	1.001	1.001	17.759	OK	0.124	17.8
9	9 1,2,3,7,8-PeCDF	2.73e4	1.50	NO	0.893	10.055	30.175	30.17	1.001	1.000	15.115		0.255	15.1
10	10 2,3,4,7,8-PeCDF	1.76e4	1.55	NO	0.935	10.055	31.165	31.18	1.001	1.001	10.330		0.265	10.3
11	11 1,2,3,4,7,8-HxCDF	2.29e4	1.20	NO	0.884	10.055	33.963	33.97	1.000	1.000	24.319		0.347	24.3
12	12 1,2,3,6,7,8-HxCDF	6.98e3	1.24	NO	0.889	10.055	34.090	34.10	1.000	1.001	6.5996		0.316	6.60
13	13 2,3,4,6,7,8-HxCDF	3.35e3	1.12	NO	0.934	10.055	34.697	34.68	1.001	1.000	3.8593		0.444	3.86
14	14 1,2,3,7,8,9-HxCDF	1.89e3	1.09	NO	0.871	10.055	35.613	35.63	1.001	1.001	2.7389		0.624	2.74
15	15 1,2,3,4,6,7,8-HpCDF	1.83e4	1.03	NO	0.873	10.055	37.419	37.39	1.001	1.000	32.828		0.500	32.8
16	16 1,2,3,4,7,8,9-HpCDF	1.95e3	0.92	NO	1.01	10.055	39.341	39.35	1.000	1.000	4.5143		0.628	4.51
17	17 OCDF	3.77e4	0.81	NO	0.806	10.055	42.004	42.01	1.000	1.000	100.16		0.842	100
18	18 13C-2,3,7,8-TCDD	4.65e5	0.78	NO	1.16	10.055	26.448	26.45	1.025	1.026	94.251	47.4	0.153	
19	19 13C-1,2,3,7,8-PeCDD	2.95e5	0.63	NO	0.849	10.055	31.457	31.45	1.219	1.219	81.594	41.0	0.156	
20	20 13C-1,2,3,4,7,8-HxCDD	1.87e5	1.29	NO	0.779	10.055	34.831	34.84	1.014	1.014	72.053	36.2	0.370	
21	21 13C-1,2,3,6,7,8-HxCDD	2.28e5	1.23	NO	1.02	10.055	34.931	34.94	1.017	1.017	67.376	33.9	0.284	
22	22 13C-1,2,3,7,8,9-HxCDD	1.88e5	1.12	NO	0.903	10.055	35.240	35.23	1.026	1.025	62.319	31.3	0.320	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.51e5	1.06	NO	0.689	10.055	38.786	38.79	1.129	1.129	65.515	32.9	0.343	
24	24 13C-OCDD	2.01e5	0.89	NO	0.652	10.055	41.792	41.81	1.216	1.217	92.263	23.2	0.453	
25	25 13C-2,3,7,8-TCDF	5.41e5	0.76	NO	1.06	10.055	25.555	25.56	0.991	0.991	88.874	44.7	0.197	
26	26 13C-1,2,3,7,8-PeCDF	4.03e5	1.58	NO	0.838	10.055	30.175	30.15	1.170	1.169	83.682	42.1	0.372	
27	27 13C-2,3,4,7,8-PeCDF	3.62e5	1.62	NO	0.817	10.055	31.147	31.15	1.207	1.207	77.063	38.7	0.381	
28	28 13C-1,2,3,4,7,8-HxCDF	2.12e5	0.48	NO	1.01	10.055	33.965	33.96	0.989	0.989	63.142	31.7	0.276	
29	29 13C-1,2,3,6,7,8-HxCDF	2.37e5	0.50	NO	1.17	10.055	34.082	34.08	0.992	0.992	60.832	30.6	0.239	
30	30 13C-2,3,4,6,7,8-HxCDF	1.85e5	0.49	NO	1.02	10.055	34.659	34.68	1.009	1.009	54.280	27.3	0.273	

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Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	1.58e5	0.50	NO	0.860	10.055	35.590	35.59	1.036	1.036	55.059	27.7	0.324	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.27e5	0.41	NO	0.774	10.055	37.374	37.38	1.088	1.088	49.053	24.7	0.248	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.46e4	0.41	NO	0.521	10.055	39.346	39.34	1.145	1.145	48.713	24.5	0.369	
34	34 13C-OCDF	1.86e5	0.85	NO	0.746	10.055	41.981	42.00	1.222	1.223	74.660	18.8	0.285	
35	35 37Cl-2,3,7,8-TCDD	1.82e5			1.04	10.055	26.466	26.48	1.026	1.027	41.143	51.7	0.0454	
36	36 13C-1,2,3,4-TCDD	8.48e5	0.79	NO	1.00	10.055	25.740	25.80	1.000	1.000	198.90	100	0.177	
37	37 13C-1,2,3,4-TCDF	1.14e6	0.78	NO	1.00	10.055	24.030	24.10	1.000	1.000	198.90	100	0.208	
38	38 13C-1,2,3,4,6,9-HxCDF	6.63e5	0.51	NO	1.00	10.055	34.290	34.36	1.000	1.000	198.90	100	0.279	
39	39 Total Tetra-Dioxins				0.888	10.055	24.620		0.000		12.971		0.175	14.1
40	40 Total Penta-Dioxins				0.908	10.055	29.960		0.000		20.478		0.230	20.5
41	41 Total Hexa-Dioxins				0.892	10.055	33.635		0.000		151.27		0.598	151
42	42 Total Hepta-Dioxins				0.864	10.055	38.800		0.000		1119.5		1.45	1120
43	43 Total Tetra-Furans				0.751	10.055	23.610		0.000		113.74		0.124	114
44	44 1st Func. Penta-Furans				0.893	10.055	27.040		0.000		40.621		0.0461	40.6
45	45 Total Penta-Furans				0.893	10.055	29.275		0.000		64.502		0.266	71.4
46	46 Total Hexa-Furans				0.934	10.055	33.555		0.000		88.548		0.398	88.5
47	47 Total Hepta-Furans				0.873	10.055	37.835		0.000		130.80		0.591	131

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Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.46	4.378e4	5.616e4	4.143e3	5.058e3	0.82	NO	9.201e3	4.4345	4.4345	0.175
2	Total Tetra-Dioxins	22.88	1.217e4	1.488e4	1.232e3	1.600e3	0.77	NO	2.832e3	1.3650	1.3650	0.175
3	Total Tetra-Dioxins	23.40	6.334e3	7.793e3	5.213e2	6.315e2	0.83	NO	1.153e3	0.55560	0.55560	0.175
4	Total Tetra-Dioxins	24.52	1.281e4	1.735e4	1.204e3	1.760e3	0.68	NO	2.964e3	1.4288	1.4288	0.175
5	Total Tetra-Dioxins	24.76	1.388e4	1.378e4	1.032e3	1.283e3	0.80	NO	2.314e3	1.1155	1.1155	0.175
6	Total Tetra-Dioxins	24.99	5.224e3	5.863e3	4.194e2	5.496e2	0.76	NO	9.690e2	0.46704	0.46704	0.175
7	Total Tetra-Dioxins	25.26	3.747e3	4.953e3	2.565e2	3.316e2	0.77	NO	5.881e2	0.28345	0.28345	0.175
8	Total Tetra-Dioxins	25.41	7.389e3	9.776e3	4.723e2	6.589e2	0.72	NO	1.131e3	0.54520	0.54520	0.175
9	Total Tetra-Dioxins	25.77	4.135e3	7.802e3	3.672e2	5.137e2	0.71	NO	8.809e2	0.42459	0.42459	0.175
10	Total Tetra-Dioxins	26.20	2.089e4	2.381e4	1.696e3	2.014e3	0.84	NO	3.710e3	1.7879	1.7879	0.175
11	Total Tetra-Dioxins	26.32	3.819e3	4.149e3	2.165e2	2.392e2	0.90	YES	0.000e0	0.00000	0.20407	0.175
12	2,3,7,8-TCDD	26.48	1.025e4	1.382e4	5.534e2	9.073e2	0.61	YES	1.461e3	0.00000	0.61307	0.175
13	Total Tetra-Dioxins	26.81	7.638e3	8.213e3	5.405e2	6.288e2	0.86	NO	1.169e3	0.56358	0.56358	0.175
14	Total Tetra-Dioxins	26.93	5.081e3	3.138e3	2.372e2	1.473e2	1.61	YES	0.000e0	0.00000	0.12570	0.175
15	Total Tetra-Dioxins	27.43	2.618e3	3.557e3	1.568e2	2.600e2	0.60	YES	0.000e0	0.00000	0.17368	0.175

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Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	3.902e4	6.414e4	3.122e3	4.933e3	0.63	NO	8.055e3	5.9755	5.9755	0.230
2	Total Penta-Dioxins	29.73	1.255e4	2.455e4	8.773e2	1.397e3	0.63	NO	2.274e3	1.6869	1.6869	0.230
3	Total Penta-Dioxins	30.20	2.140e4	5.303e4	1.415e3	2.418e3	0.59	NO	3.833e3	2.8433	2.8433	0.230
4	Total Penta-Dioxins	30.37	1.968e4	3.031e4	1.155e3	1.620e3	0.71	NO	2.775e3	2.0584	2.0584	0.230
5	Total Penta-Dioxins	30.47	1.066e4	1.837e4	7.640e2	1.297e3	0.59	NO	2.061e3	1.5286	1.5286	0.230
6	Total Penta-Dioxins	30.72	1.674e4	2.625e4	1.483e3	2.429e3	0.61	NO	3.912e3	2.9016	2.9016	0.230
7	Total Penta-Dioxins	31.04	4.109e3	9.501e3	3.168e2	5.077e2	0.62	NO	8.246e2	0.61166	0.61166	0.230
8	1,2,3,7,8-PeCDD	31.45	1.528e4	1.916e4	7.979e2	1.177e3	0.68	NO	1.975e3	1.4652	1.4652	0.230
9	Total Penta-Dioxins	31.54	6.705e3	9.633e3	3.775e2	5.219e2	0.72	NO	8.994e2	0.66721	0.66721	0.230
10	Total Penta-Dioxins	31.83	6.859e3	9.320e3	4.153e2	5.813e2	0.71	NO	9.967e2	0.73934	0.73934	0.230

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.35	5.555e5	4.537e5	3.069e4	2.511e4	1.22	NO	5.580e4	61.877	61.877	0.598
2	Total Hexa-Dioxins	33.90	5.705e4	4.179e4	3.371e3	2.557e3	1.32	NO	5.928e3	6.5735	6.5735	0.598
3	Total Hexa-Dioxins	34.15	3.996e5	3.125e5	2.939e4	2.389e4	1.23	NO	5.328e4	59.081	59.081	0.598
4	Total Hexa-Dioxins	34.27	4.091e4	3.601e4	2.513e3	2.377e3	1.06	NO	4.890e3	5.4222	5.4222	0.598
5	1,2,3,4,7,8-HxCDD	34.87	1.154e4	1.063e4	6.948e2	5.643e2	1.23	NO	1.259e3	1.2949	1.2949	0.516
6	1,2,3,6,7,8-HxCDD	34.96	7.511e4	6.511e4	5.639e3	4.783e3	1.18	NO	1.042e4	10.172	10.172	0.520
7	Total Hexa-Dioxins	35.14	1.966e4	1.589e4	1.405e3	1.066e3	1.32	NO	2.471e3	2.7403	2.7403	0.598
8	1,2,3,7,8,9-HxCDD	35.22	2.128e4	2.149e4	1.806e3	1.634e3	1.11	NO	3.440e3	4.1131	4.1131	0.698

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.79	2.323e6	2.353e6	2.112e5	2.099e5	1.01	NO	4.211e5	644.00	644.00	1.45
2	1,2,3,4,6,7,8-HpCDD	38.81	1.853e6	1.897e6	1.546e5	1.563e5	0.99	NO	3.109e5	475.54	475.54	1.45

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.32	1.628e4	2.611e4	1.354e3	1.777e3	0.76	NO	3.131e3	1.5322	1.5322	0.124
2	Total Tetra-Furans	20.86	3.648e4	4.541e4	3.069e3	4.265e3	0.72	NO	7.335e3	3.5899	3.5899	0.124
3	Total Tetra-Furans	21.45	1.421e5	1.837e5	1.214e4	1.620e4	0.75	NO	2.834e4	13.871	13.871	0.124
4	Total Tetra-Furans	21.92	2.174e4	2.966e4	2.442e3	3.598e3	0.68	NO	6.039e3	2.9558	2.9558	0.124
5	Total Tetra-Furans	22.01	3.079e4	3.816e4	2.737e3	3.807e3	0.72	NO	6.544e3	3.2028	3.2028	0.124
6	Total Tetra-Furans	22.34	1.344e4	2.109e4	7.100e2	1.057e3	0.67	NO	1.767e3	0.86504	0.86504	0.124
7	Total Tetra-Furans	22.41	8.629e4	1.208e5	8.842e3	1.189e4	0.74	NO	2.073e4	10.146	10.146	0.124
8	Total Tetra-Furans	22.91	6.987e4	7.912e4	6.384e3	8.277e3	0.77	NO	1.466e4	7.1756	7.1756	0.124
9	Total Tetra-Furans	23.06	1.211e4	1.475e4	1.078e3	1.421e3	0.76	NO	2.499e3	1.2231	1.2231	0.124
10	Total Tetra-Furans	23.28	2.068e4	2.971e4	2.048e3	2.935e3	0.70	NO	4.983e3	2.4389	2.4389	0.124
11	Total Tetra-Furans	23.72	8.692e3	9.115e3	6.005e2	7.684e2	0.78	NO	1.369e3	0.67003	0.67003	0.124
12	Total Tetra-Furans	23.86	1.698e4	2.865e4	1.642e3	2.283e3	0.72	NO	3.926e3	1.9215	1.9215	0.124
13	Total Tetra-Furans	24.01	7.940e4	1.051e5	7.292e3	9.950e3	0.73	NO	1.724e4	8.4390	8.4390	0.124
14	Total Tetra-Furans	24.10	4.967e4	7.083e4	4.597e3	6.332e3	0.73	NO	1.093e4	5.3495	5.3495	0.124
15	Total Tetra-Furans	24.64	1.752e5	2.391e5	1.507e4	2.038e4	0.74	NO	3.545e4	17.350	17.350	0.124
16	Total Tetra-Furans	24.93	2.133e4	2.814e4	1.740e3	2.174e3	0.80	NO	3.914e3	1.9157	1.9157	0.124
17	Total Tetra-Furans	25.14	1.545e4	1.963e4	1.300e3	1.600e3	0.81	NO	2.901e3	1.4197	1.4197	0.124
18	Total Tetra-Furans	25.36	1.546e4	2.271e4	1.051e3	1.595e3	0.66	NO	2.647e3	1.2954	1.2954	0.124
19	Total Tetra-Furans	25.47	4.596e4	6.981e4	3.431e3	4.592e3	0.75	NO	8.024e3	3.9271	3.9271	0.124
20	2,3,7,8-TCDF	25.59	2.049e5	2.813e5	1.548e4	2.081e4	0.74	NO	3.628e4	17.759	17.759	0.124
21	Total Tetra-Furans	25.94	3.476e4	5.560e4	3.050e3	4.065e3	0.75	NO	7.116e3	3.4827	3.4827	0.124
22	Total Tetra-Furans	26.20	7.400e3	1.012e4	4.893e2	5.721e2	0.86	NO	1.061e3	0.51952	0.51952	0.124
23	Total Tetra-Furans	27.59	4.011e4	4.400e4	2.554e3	2.937e3	0.87	NO	5.491e3	2.6877	2.6877	0.124

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.58	6.558e5	4.309e5	4.266e4	2.706e4	1.58	NO	6.972e4	40.621	40.621	0.0461

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.02	4.550e4	2.804e4	2.981e3	2.016e3	1.48	NO	4.997e3	2.9111	2.9111	0.266
2	Total Penta-Furans	29.18	2.615e5	1.766e5	1.902e4	1.238e4	1.54	NO	3.140e4	18.295	18.295	0.266
3	Total Penta-Furans	29.25	2.729e4	1.863e4	8.584e2	6.166e2	1.39	NO	1.475e3	0.85939	0.85939	0.266
4	Total Penta-Furans	29.77	1.054e5	7.341e4	7.008e3	4.774e3	1.47	NO	0.000e0	0.00000	6.8644	0.266
5	Total Penta-Furans	29.82	2.313e4	1.589e4	7.461e2	5.041e2	1.48	NO	1.250e3	0.72839	0.72839	0.266
6	Total Penta-Furans	29.99	4.413e4	3.222e4	2.607e3	1.718e3	1.52	NO	4.325e3	2.5198	2.5198	0.266
7	1,2,3,7,8-PeCDF	30.17	2.889e5	1.918e5	1.641e4	1.094e4	1.50	NO	2.735e4	15.115	15.115	0.255
8	Total Penta-Furans	30.23	2.861e4	1.910e4	1.118e3	7.641e2	1.46	NO	1.882e3	1.0963	1.0963	0.266
9	Total Penta-Furans	30.43	1.322e5	9.161e4	8.460e3	5.750e3	1.47	NO	1.421e4	8.2789	8.2789	0.266
10	Total Penta-Furans	31.05	2.107e4	1.119e4	9.569e2	5.992e2	1.60	NO	1.556e3	0.90664	0.90664	0.266
11	2,3,4,7,8-PeCDF	31.18	1.964e5	1.237e5	1.067e4	6.893e3	1.55	NO	1.756e4	10.330	10.330	0.265
12	Total Penta-Furans	31.19	1.401e5	9.247e4	3.154e3	2.048e3	1.54	NO	5.203e3	3.0313	3.0313	0.266
13	Total Penta-Furans	32.09	1.251e4	5.112e3	4.335e2	3.036e2	1.43	NO	7.371e2	0.42947	0.42947	0.266

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	4.298e4	4.022e4	2.415e3	2.082e3	1.16	NO	4.497e3	4.8388	4.8388	0.398
2	Total Hexa-Furans	32.96	1.622e5	1.282e5	8.952e3	7.512e3	1.19	NO	1.646e4	17.716	17.716	0.398
3	Total Hexa-Furans	33.31	5.687e3	4.123e3	2.997e2	2.379e2	1.26	NO	5.376e2	0.57848	0.57848	0.398
4	Total Hexa-Furans	33.50	2.496e5	2.108e5	1.337e4	1.124e4	1.19	NO	2.461e4	26.481	26.481	0.398
5	Total Hexa-Furans	33.87	7.968e3	5.178e3	3.384e2	2.567e2	1.32	NO	5.951e2	0.64038	0.64038	0.398
6	1,2,3,4,7,8-HxCDF	33.97	2.082e5	1.651e5	1.252e4	1.042e4	1.20	NO	2.294e4	24.319	24.319	0.347
7	1,2,3,6,7,8-HxCDF	34.10	5.628e4	4.811e4	3.862e3	3.122e3	1.24	NO	6.984e3	6.5996	6.5996	0.316
8	2,3,4,6,7,8-HxCDF	34.68	2.789e4	2.296e4	1.768e3	1.584e3	1.12	NO	3.352e3	3.8593	3.8593	0.444
9	1,2,3,7,8,9-HxCDF	35.63	1.726e4	1.602e4	9.889e2	9.031e2	1.09	NO	1.892e3	2.7389	2.7389	0.624
10	Total Hexa-Furans	35.66	1.674e4	1.148e4	4.095e2	3.118e2	1.31	NO	7.213e2	0.77612	0.77612	0.398

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Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.39	1.058e5	1.014e5	9.270e3	8.990e3	1.03	NO	1.826e4	32.828	32.828	0.500
2	Total Hepta-Furans	38.00	2.410e5	2.343e5	2.170e4	2.166e4	1.00	NO	4.335e4	93.455	93.455	0.591
3	1,2,3,4,7,8,9-HpCDF	39.35	1.181e4	1.613e4	9.323e2	1.013e3	0.92	NO	1.945e3	4.5143	4.5143	0.628

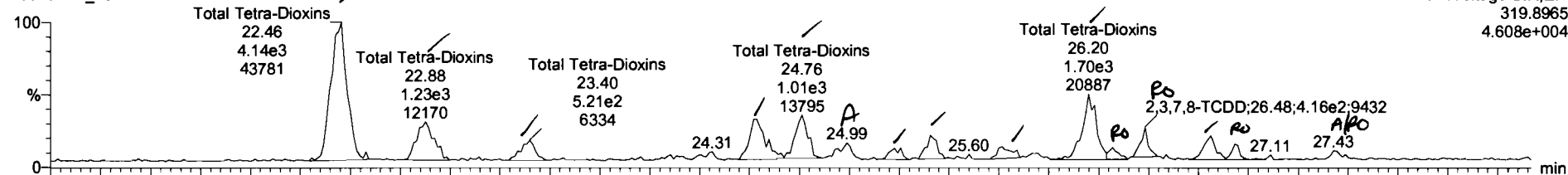
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Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

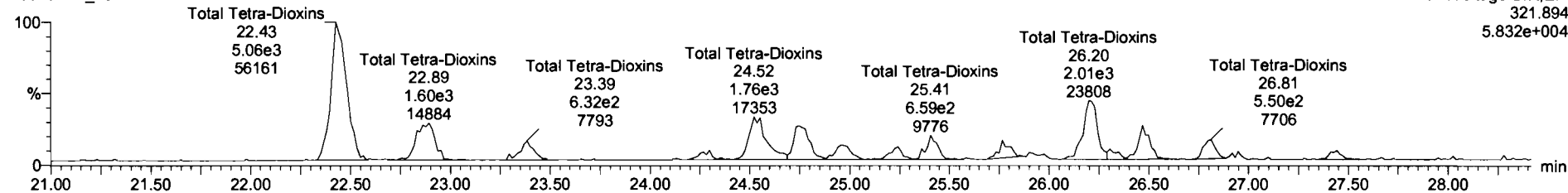
Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

2,3,7,8-TCDD

200707R2_15

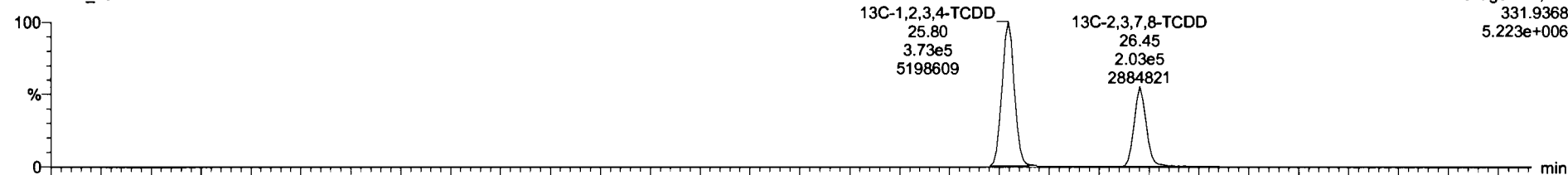


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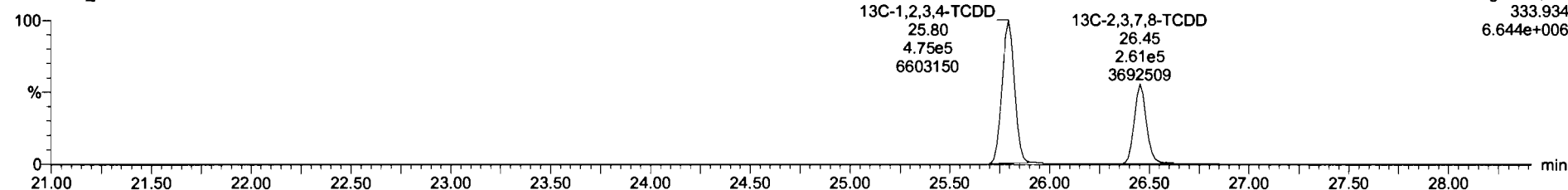


13C-2,3,7,8-TCDD

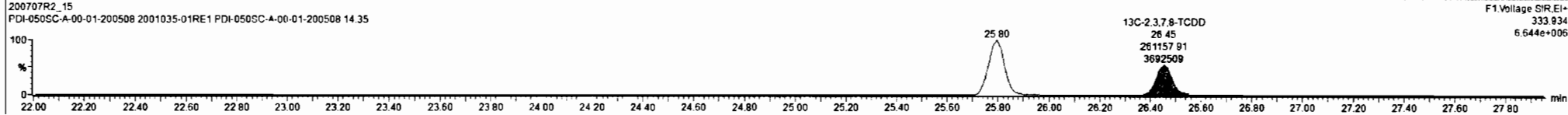
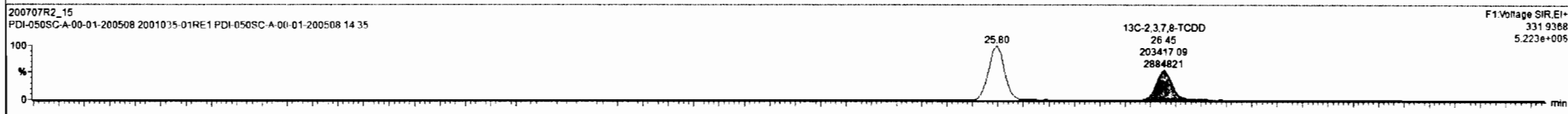
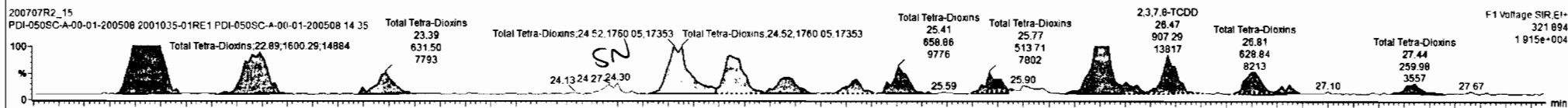
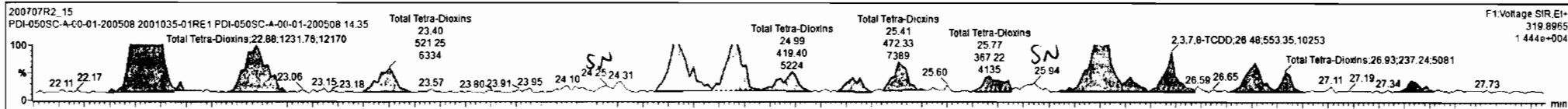
200707R2_15



200707R2_15



Peak	RT	Area	Conc	%Rec	DL	EMPC
Total Penta-Dioxins		0.9081	10.055	19.0	0.230	20.5
Total Hexa-Dioxins		0.8923	10.055	146	0.598	149
Total Hepta-Dioxins		0.8639	10.055	1130	1.45	1130
Total Tetra-Furans		0.7510	10.055	103	0.124	112
1st Func. Penta-Furans		0.8925	10.055	40.6	0.0461	40.6
Total Penta-Furans		0.8925	10.055	72.3	0.266	72.6
Total Hexa-Furans		0.9341	10.055	88.9	0.398	89.4
Total Hepta-Furans		0.8734	10.055	131	0.591	131
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
None						



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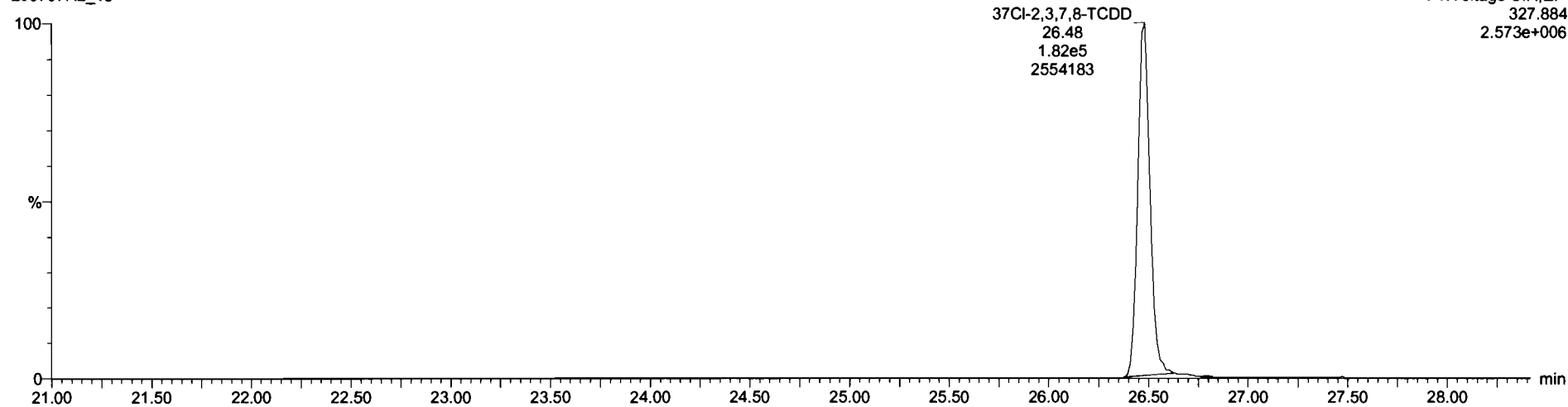
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Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

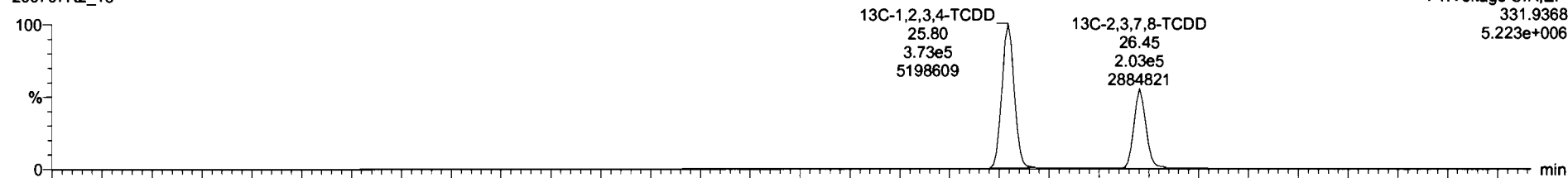
37Cl-2,3,7,8-TCDD

200707R2_15

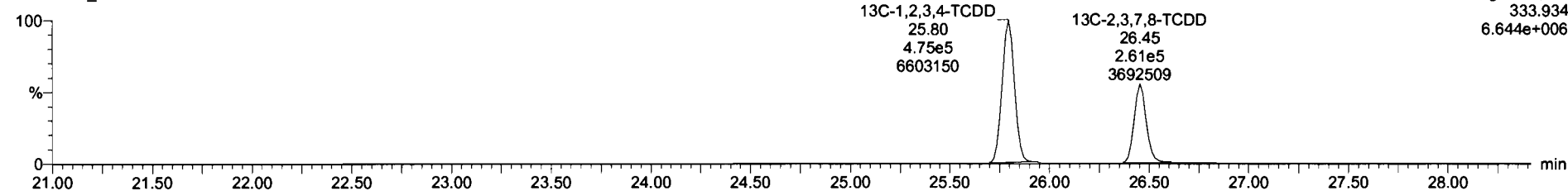


13C-1,2,3,4-TCDD

200707R2_15



200707R2_15



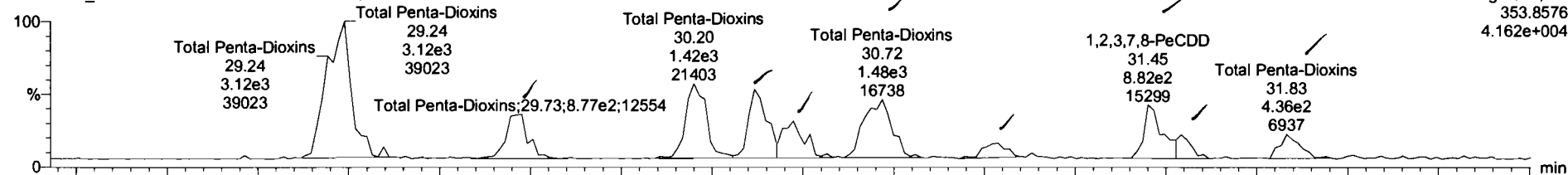
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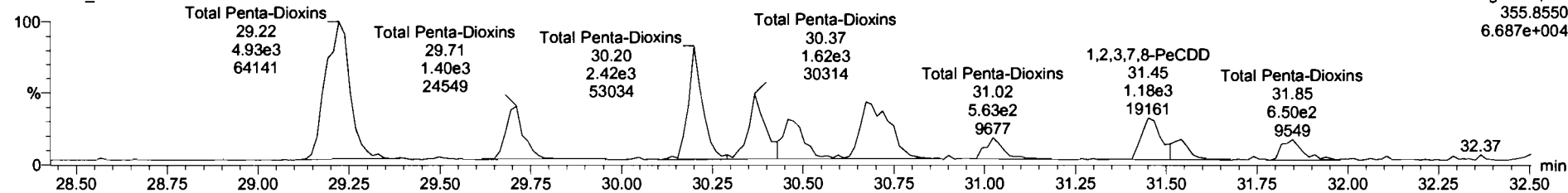
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1,2,3,7,8-PeCDD

200707R2_15

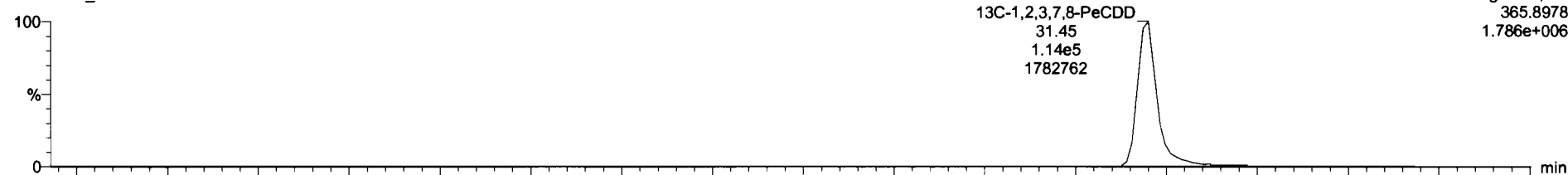


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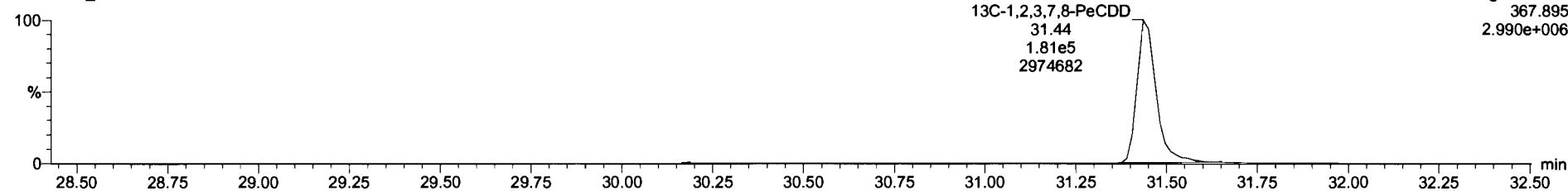


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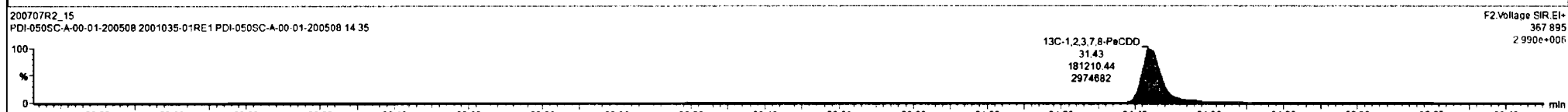
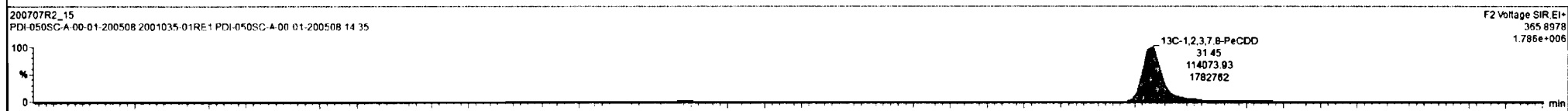
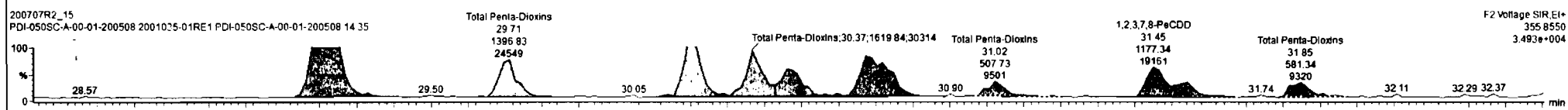
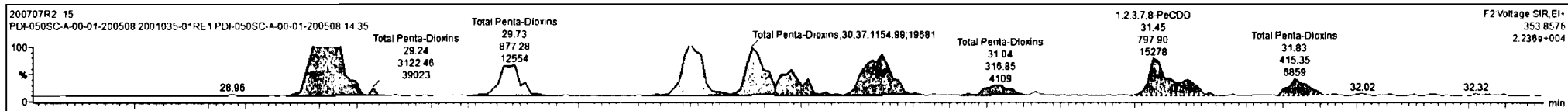
200707R2_15



200707R2_15



Peak	RT	Area	Conc	%Rec	DL	EMPC
Total Tetra-Dioxine	0.8853	10.055	13.0	0.175	14.1	
Total Hexa-Dioxine	0.8923	10.055	146	0.598	149	
Total Hepta-Dioxine	0.8639	10.055	1130	1.45	1130	
Total Tetra-Furans	0.7519	10.055	103	0.124	112	
1st Func. Penta-Furans	0.8925	10.055	40.6	0.0461	40.6	
Total Penta-Furans	0.8925	10.055	72.3	0.286	72.6	
Total Hexa-Furans	0.9341	10.055	88.9	0.398	89.4	
Total Hepta-Furans	0.8734	10.055	131	0.591	131	
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
Inose						



Dataset: Untitled

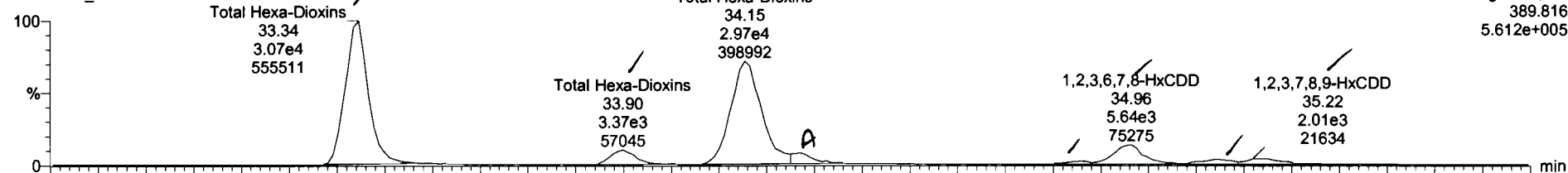
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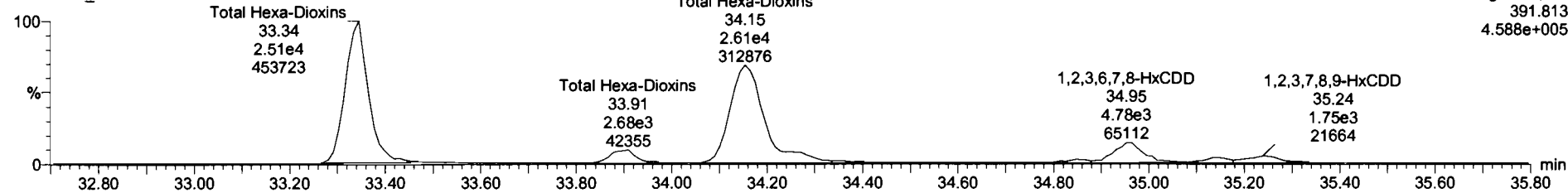
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1,2,3,4,7,8-HxCDD

200707R2_15



200707R2_15

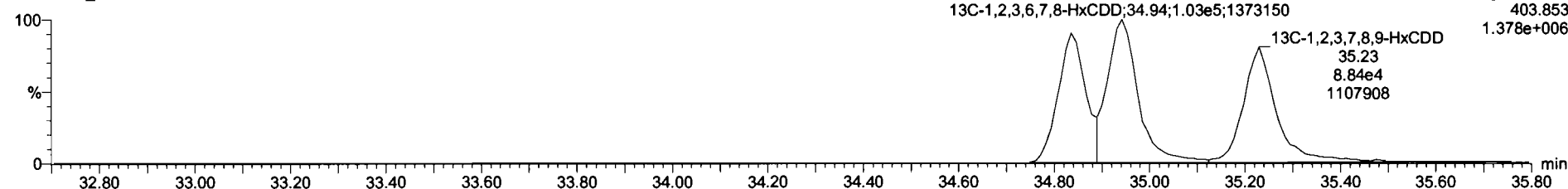


13C-1,2,3,4,7,8-HxCDD

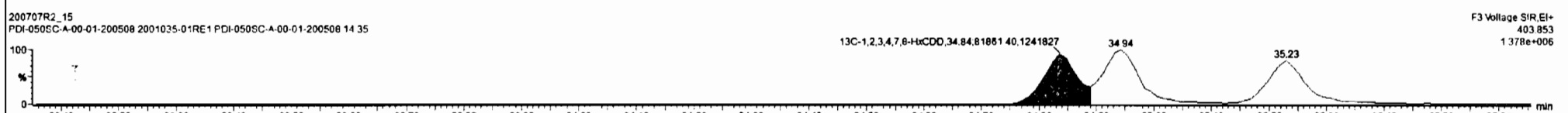
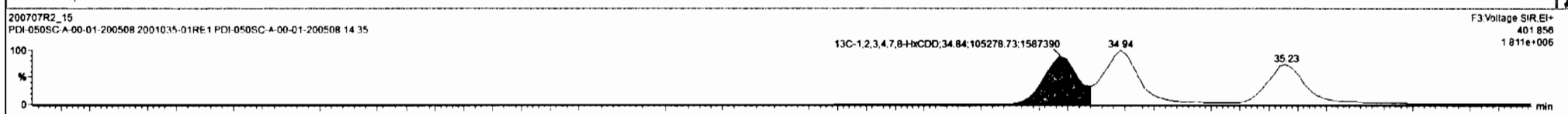
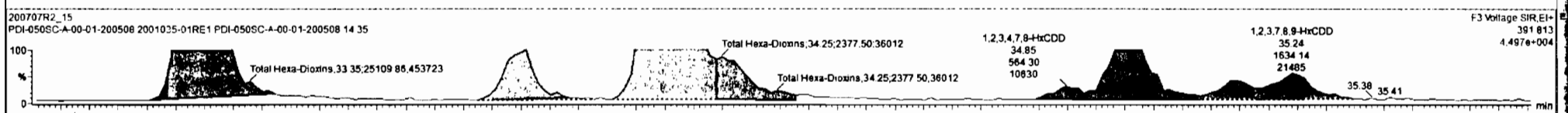
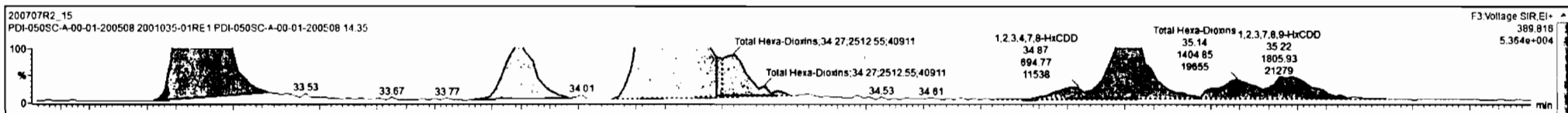
200707R2_15



200707R2_15



Sample	Comp.	Wt%	Conc.	WAcc	DL	EMPC
Total Tetra-Dioxins	0.8983	10.055	13.0	0.175	14.1	
Total Penta-Dioxins	0.9081	10.055	20.5	0.230	20.5	
Total Hexa-Dioxins	0.8639	10.055	1130	1.45	1130	
Total Tetra-Furans	0.7510	10.055	103	0.124	112	
1st Func. Penta-Furans	0.8925	10.055	40.6	0.0461	40.6	
Total Penta-Furans	0.8925	10.055	72.3	0.268	72.6	
Total Hexa-Furans	0.9341	10.055	88.9	0.398	89.4	
Total Hepta-Furans	0.8734	10.055	131	0.591	131	
PFK1						
PFK2						
PFK3						
PFK4						
PFK5						
DPE1						
DPE2						
DPE3						
DPE4						
DPE5						
noise						



Dataset: Untitled

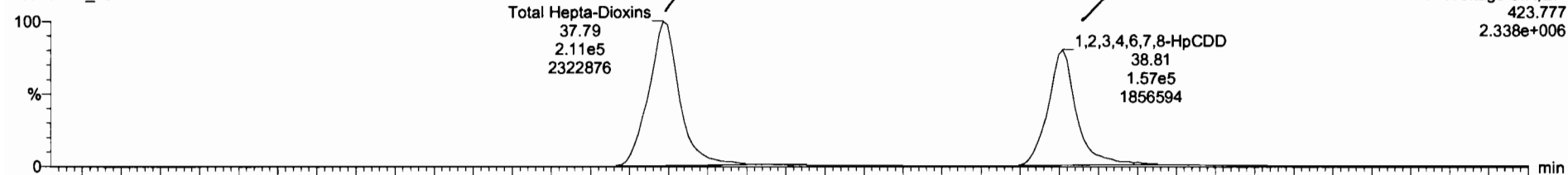
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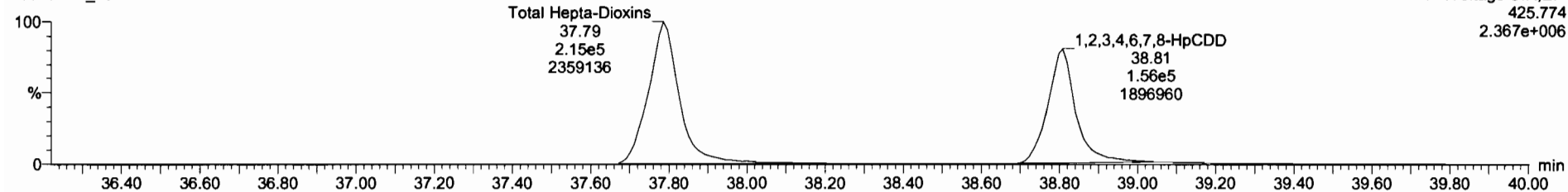
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1,2,3,4,6,7,8-HpCDD

200707R2_15

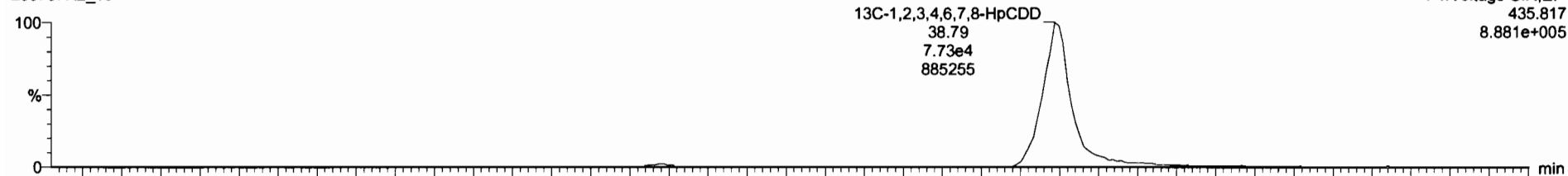


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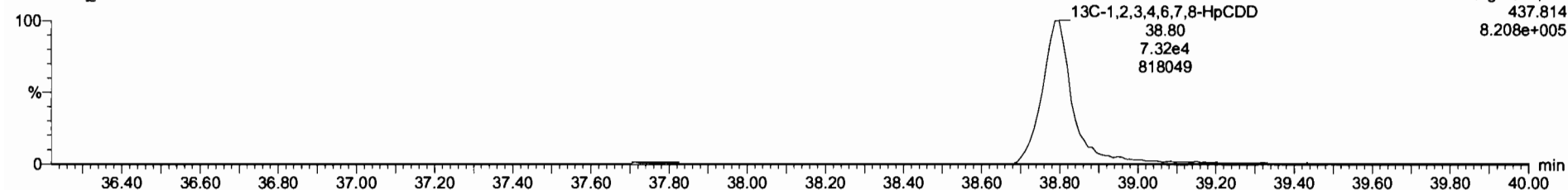


13C-1,2,3,4,6,7,8-HpCDD

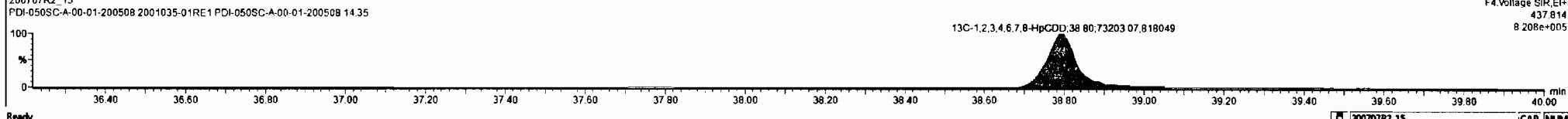
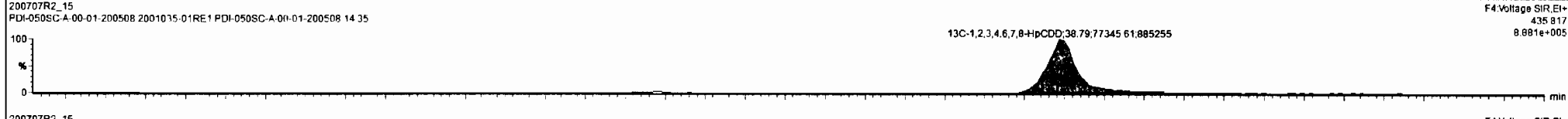
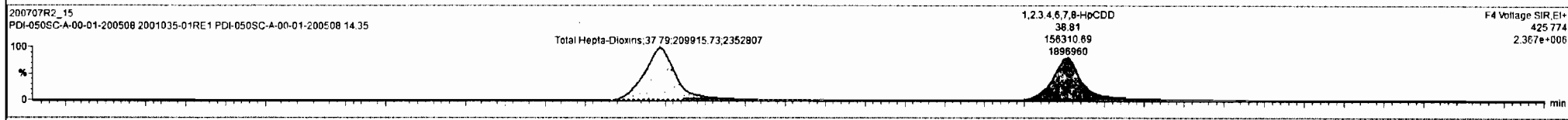
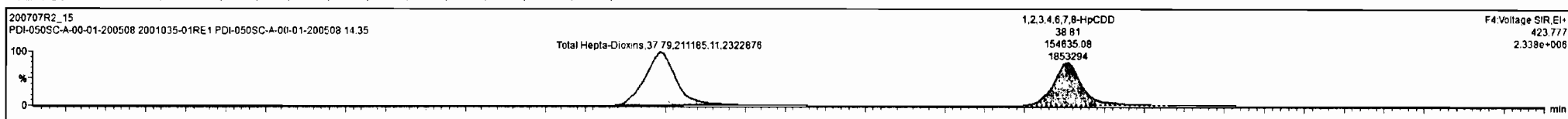
200707R2_15



200707R2_15



Peak	Resp	NA	cy	RF	WWD	RT	RRT	Conc.	%Rec	DL	EMPC
Total Tetra-Dioxins				0.8883	10.055			13.0	0.175	14.1	
Total Penta-Dioxins				0.9081	10.055			20.5	0.230	20.5	
Total Hexa-Dioxins				0.8923	10.055			151	0.598	151	
Total Tetra-Furans				0.7510	10.055			103	0.124	112	
1st Func. Penta-Furans				0.8925	10.055			40.8	0.0461	40.8	
Total Penta-Furans				0.8925	10.055			72.3	0.268	72.8	
Total Hexa-Furans				0.9341	10.055			88.9	0.398	89.4	
Total Hepta-Furans				0.8734	10.055			131	0.591	131	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
noise											



Dataset: Untitled

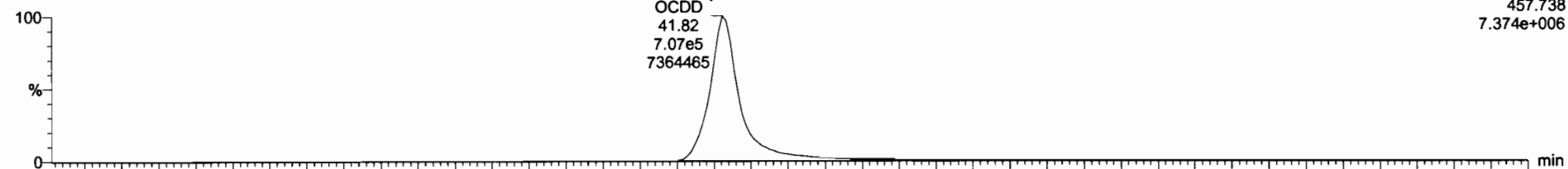
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Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

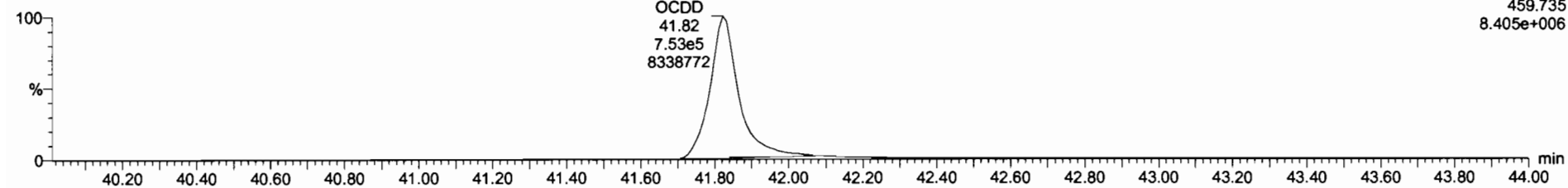
OCDD

200707R2_15



F5:Voltage SIR,EI+
457.738
7.374e+006

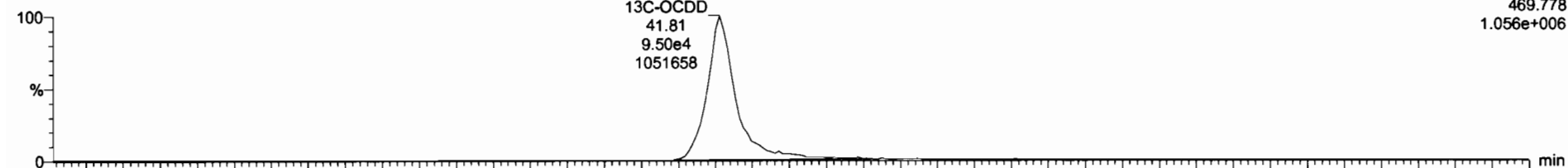
200707R2_15



F5:Voltage SIR,EI+
459.735
8.405e+006

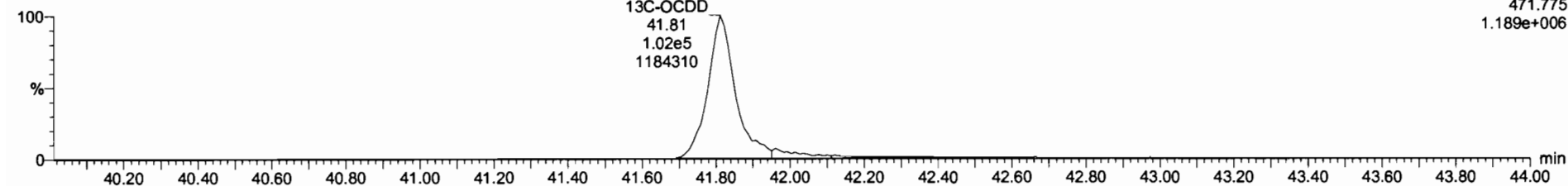
13C-OCDD

200707R2_15



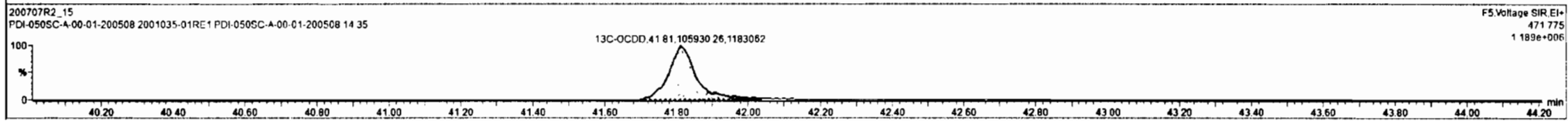
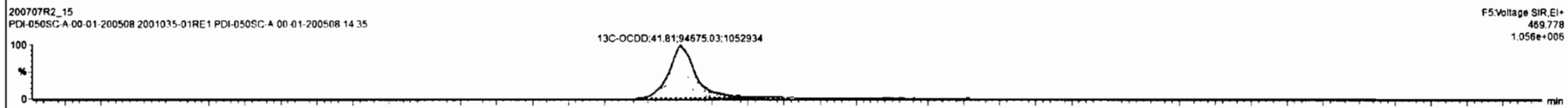
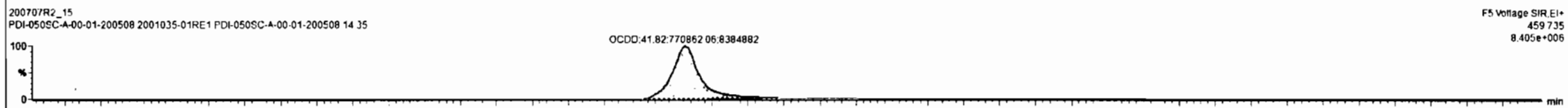
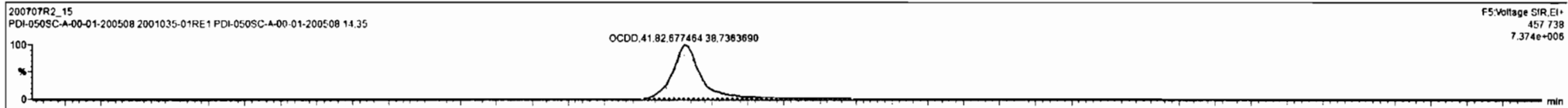
F5:Voltage SIR,EI+
469.778
1.056e+006

200707R2_15



F5:Voltage SIR,EI+
471.775
1.189e+006

Peak	WV	Resp	RA	inj	RPF	wVvl	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.35e3	0.45	YES	0.89	10.055	26.48	1.001	0.649		0.175	0.451
2	1,2,3,7,8-PeCDD	2.06e3	0.75	YES	0.91	10.055	31.45	1.000	1.53		0.230	1.42
3	1,2,3,4,7,8-HxCDD	1.24e3	1.20	NO	1.03	10.055	34.87	1.001	1.28		0.516	1.28
4	1,2,3,6,7,8-HxCDD	1.04e4	1.18	NO	0.89	10.055	34.96	1.001	10.2		0.520	10.2
5	1,2,3,7,8,9-HxCDD	3.76e3	1.14	NO	0.89	10.055	35.22	1.000	4.50		0.896	4.50
6	1,2,3,4,6,7,8-HpCDD	3.13e5	1.00	NO	0.86	10.055	38.81	1.001	478		1.45	478
7	2,3,7,8-TCDF	3.60e4	0.78	NO	0.75	10.055	25.59	1.001	17.6		0.124	17.6
8	1,2,3,7,8-PeCDF	2.91e4	1.50	NO	0.89	10.055	30.17	1.000	18.1		0.255	16.1
9	2,3,4,7,8-PeCDF	2.35e4	1.58	NO	0.93	10.055	31.18	1.001	13.8		0.265	13.8
10	1,2,3,4,7,8-HxCDF	2.29e4	1.20	NO	0.88	10.055	33.97	1.000	24.3		0.347	24.3
11	1,2,3,6,7,8-HxCDF	7.21e3	1.38	NO	0.89	10.055	34.10	1.001	8.81		0.316	8.81
12	2,3,4,6,7,8-HxCDF	3.40e3	1.14	NO	0.93	10.055	34.88	1.000	3.91		0.444	3.91
13	1,2,3,7,8,9-HxCDF	2.70e3	1.18	NO	0.87	10.055	35.63	1.001	3.91		0.624	3.91
14	1,2,3,4,6,7,8-HpCDF	1.84e4	1.04	NO	0.87	10.055	37.39	1.000	33.0		0.500	33.0
15	1,2,3,4,7,8,9-HpCDF	1.86e3	0.97	NO	1.01	10.055	39.35	1.000	4.31		0.628	4.31
16	OCDF	3.78e4	0.81	NO	0.81	10.055	42.01	1.000	99.7		0.847	99.7
17	13C-2,3,7,8-TCDD	4.65e5	0.78	NO	1.16	10.055	26.45	1.026	94.3	47.4	0.153	
18	13C-1,2,3,7,8-PeCDD	2.95e5	0.63	NO	0.85	10.055	31.45	1.219	81.6	41.0	0.156	
19	13C-1,2,3,4,7,8-HxCDD	1.87e5	1.70	NO	0.78	10.055	34.87	1.012	77.1	36.7	0.378	



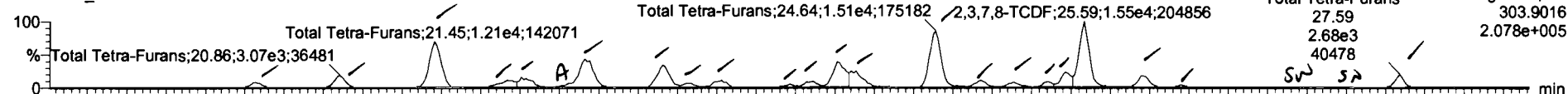
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

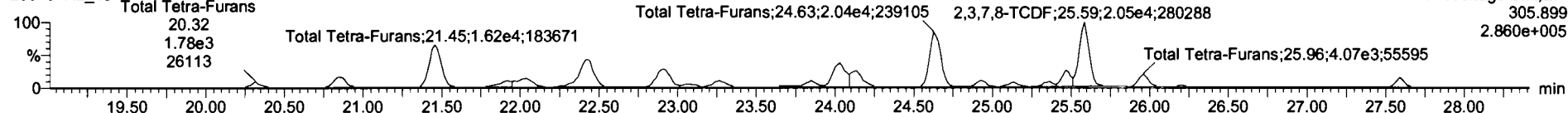
Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

2,3,7,8-TCDF

200707R2_15

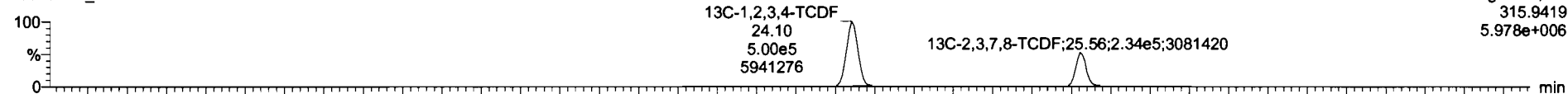


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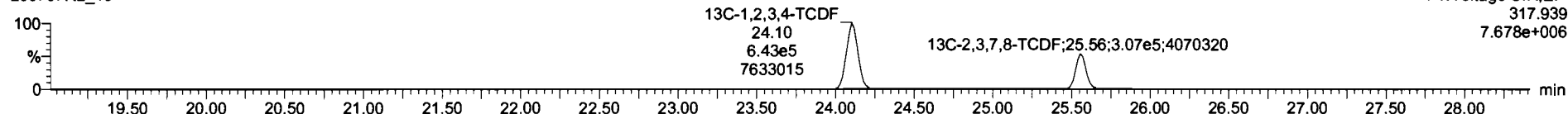


13C-2,3,7,8-TCDF

200707R2_15

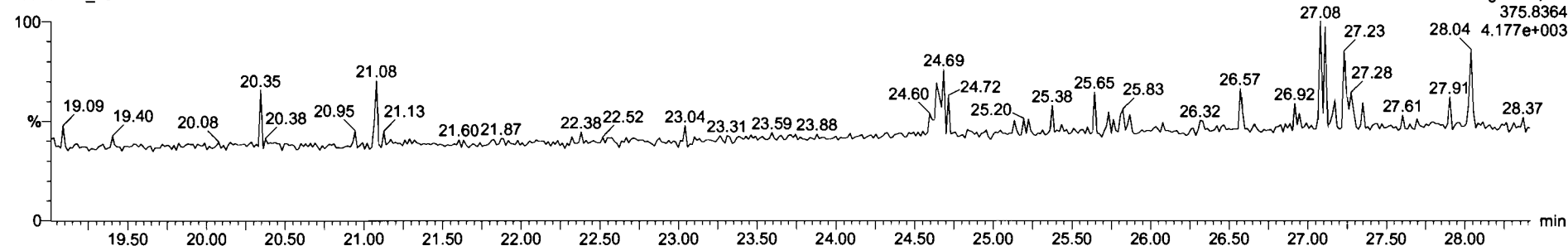


200707R2_15

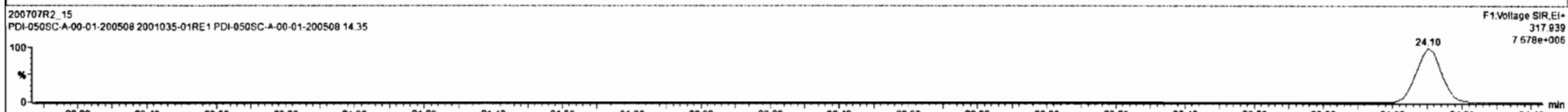
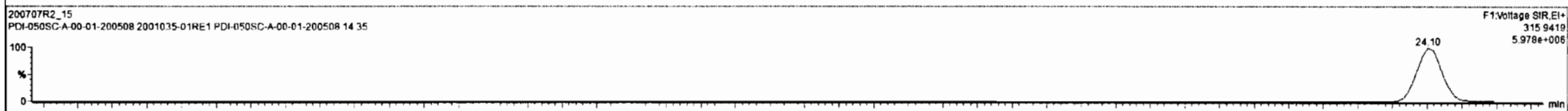
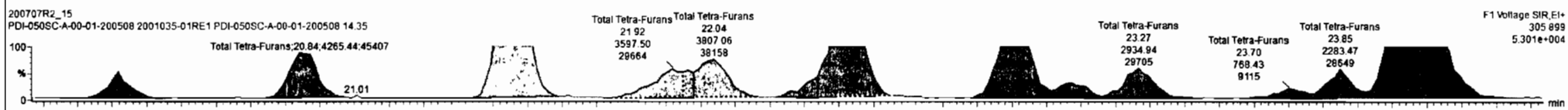
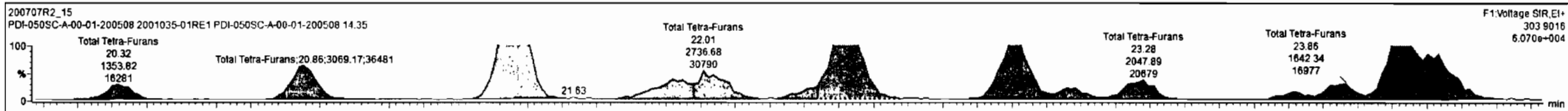


DPE1

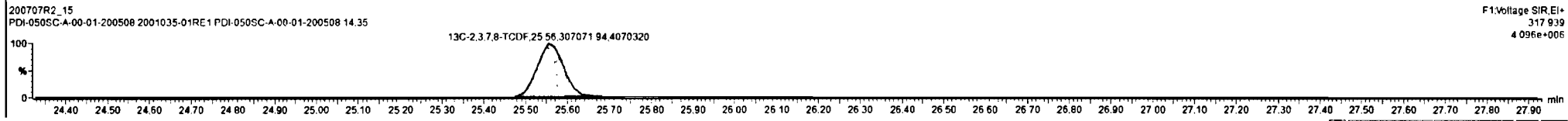
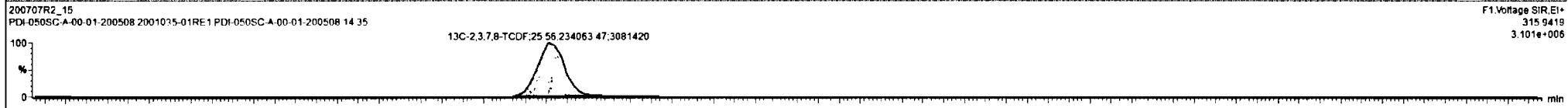
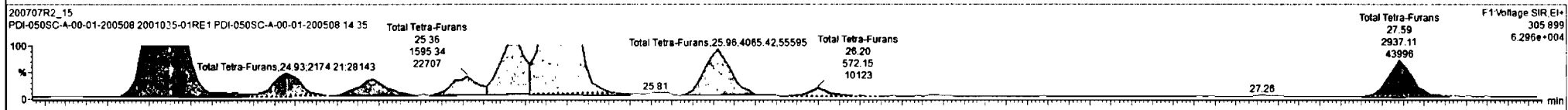
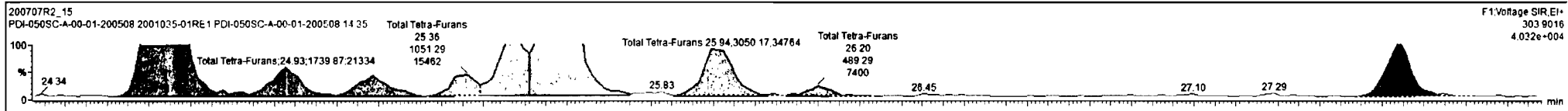
200707R2_15



NAME	Relat	TRA	July	WVF	WVol	RT	RRT	Conc.	%Rec	DL	EMPC
Total Tetra-Dioxine				0.8883	10.055			13.0	0.175	14.1	
Total Penta-Dioxina				0.9081	10.055			20.5	0.230	20.5	
Total Hexa-Dioxina				0.8923	10.055			151	0.598	151	
Total Hepta-Dioxina				0.8639	10.055			1120	1.45	1120	
1st Func. Penta-Furana				0.8825	10.055			40.6	0.0461	40.6	
Total Penta-Furana				0.8825	10.055			72.3	0.266	72.8	
Total Hexa-Furana				0.9341	10.055			88.9	0.398	89.4	
Total Hepta-Furana				0.8734	10.055			131	0.591	131	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
Inoise											



Method	Sample	Time	Area	Conc	Rec	DL	EMPC
Total Tetra-Dioxine		0.8883	10.055		13.0	0.175	14.1
Total Penta-Dioxine		0.9081	10.055		20.5	0.230	20.5
Total Hexa-Dioxine		0.8923	10.055		151	0.598	151
Total Hepta-Dioxine		0.8639	10.055		1120	1.45	1120
1st Func. Penta-Furans		0.8625	10.055		40.6	0.0481	40.6
Total Penta-Furans		0.8625	10.055		72.3	0.268	72.8
Total Hexa-Furans		0.9341	10.055		88.9	0.398	89.4
Total Hepta-Furans		0.8734	10.055		131	0.591	131
PFK1							
PFK2							
PFK3							
PFK4							
PFK5							
DPE1							
DPE2							
DPE3							
DPE4							
DPE5							



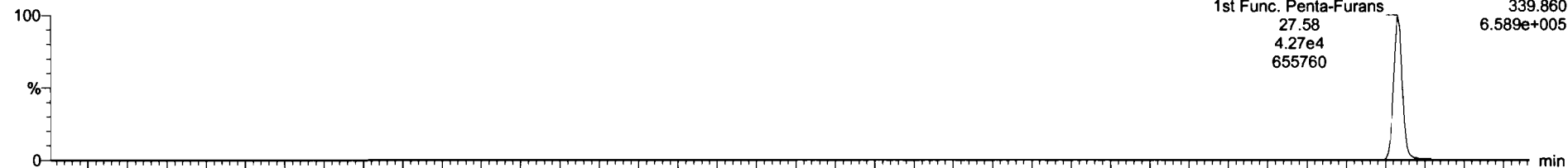
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Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

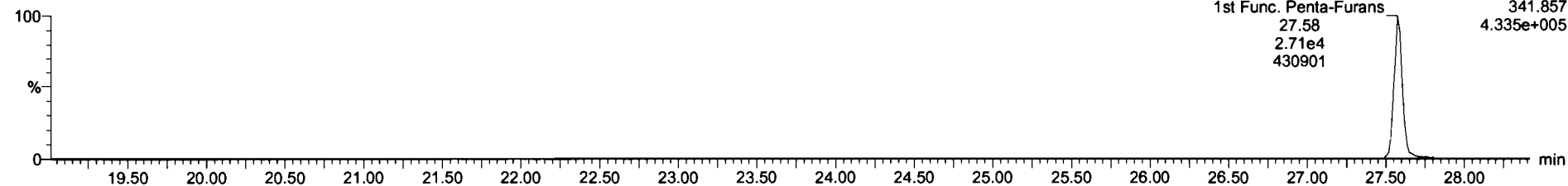
Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

1st Func. Penta-Furans

200707R2_15

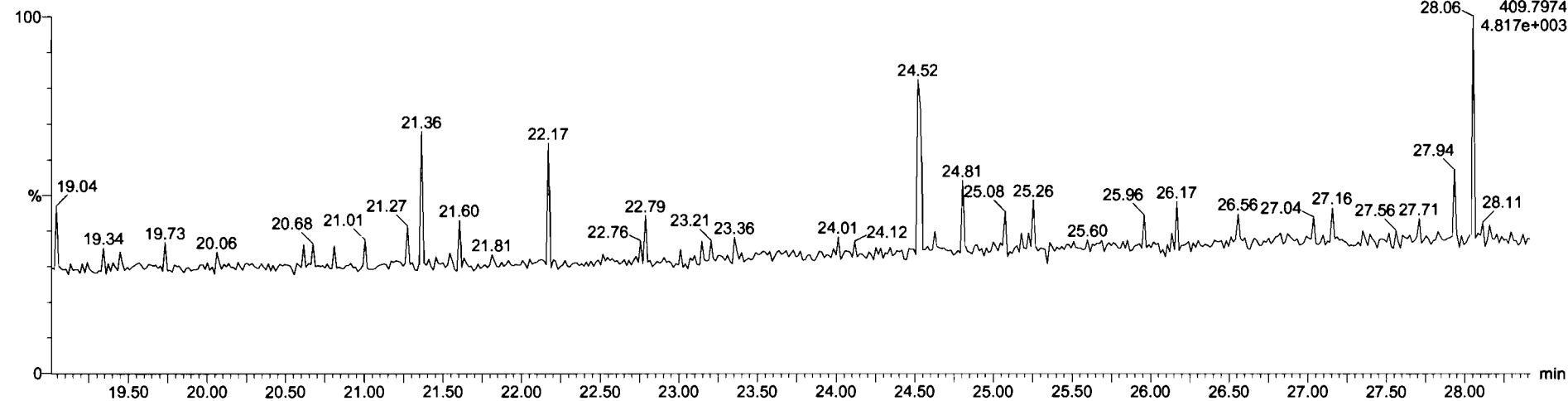


200707R2_15



DPE6

200707R2_15

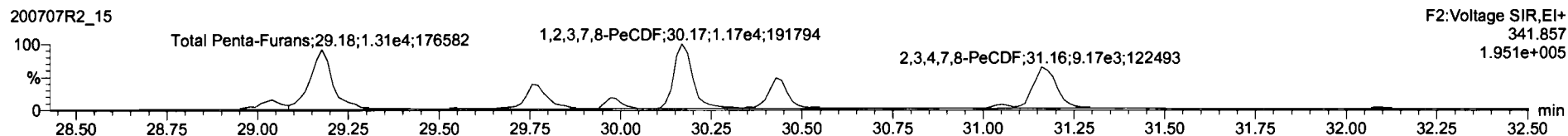
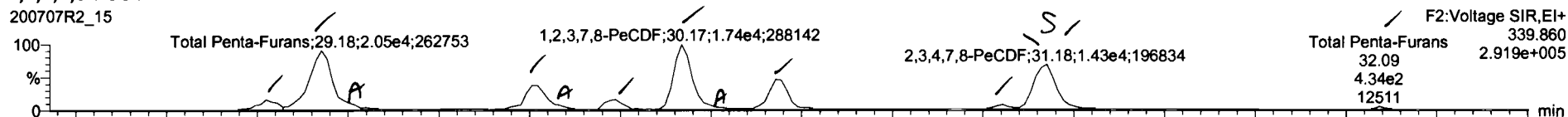


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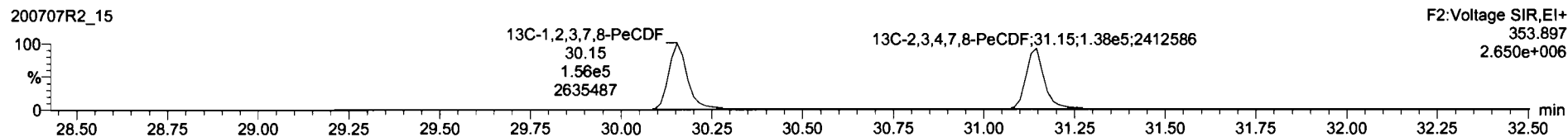
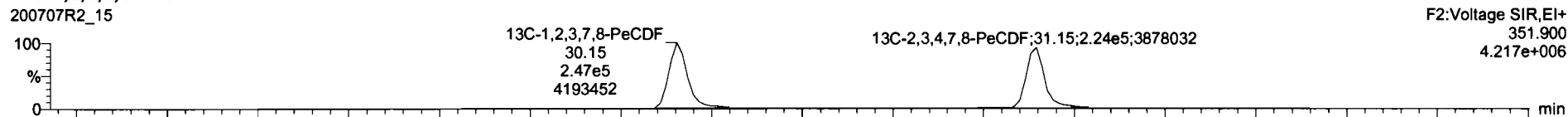
Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

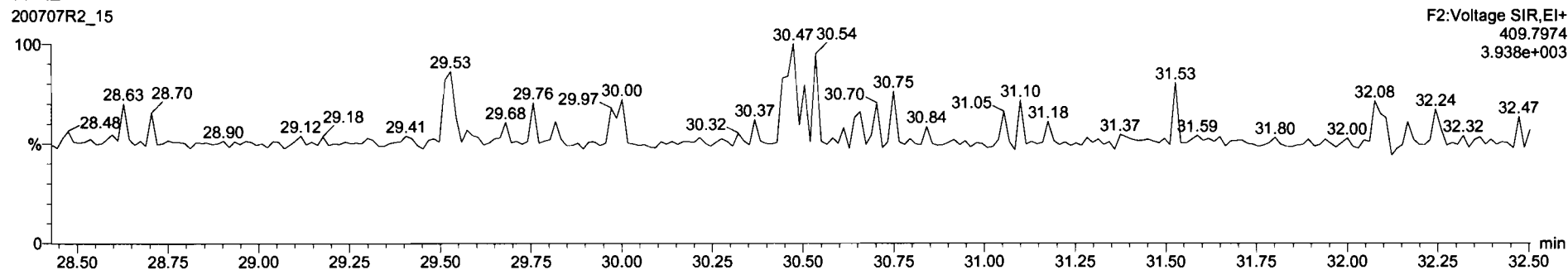
1,2,3,7,8-PeCDF



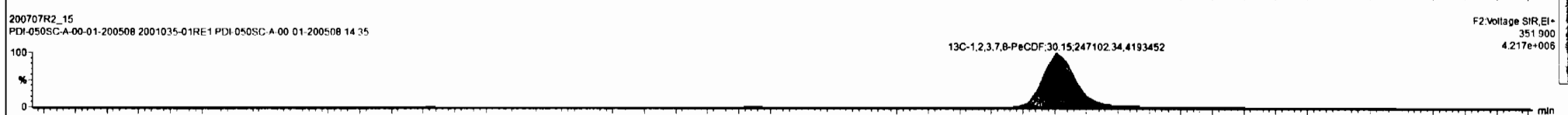
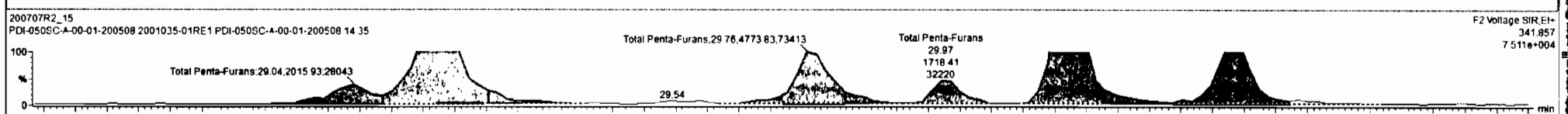
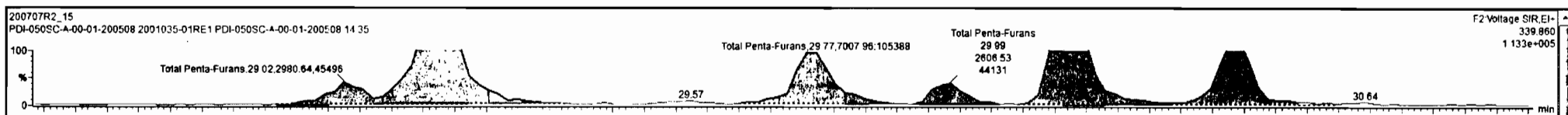
13C-1,2,3,7,8-PeCDF

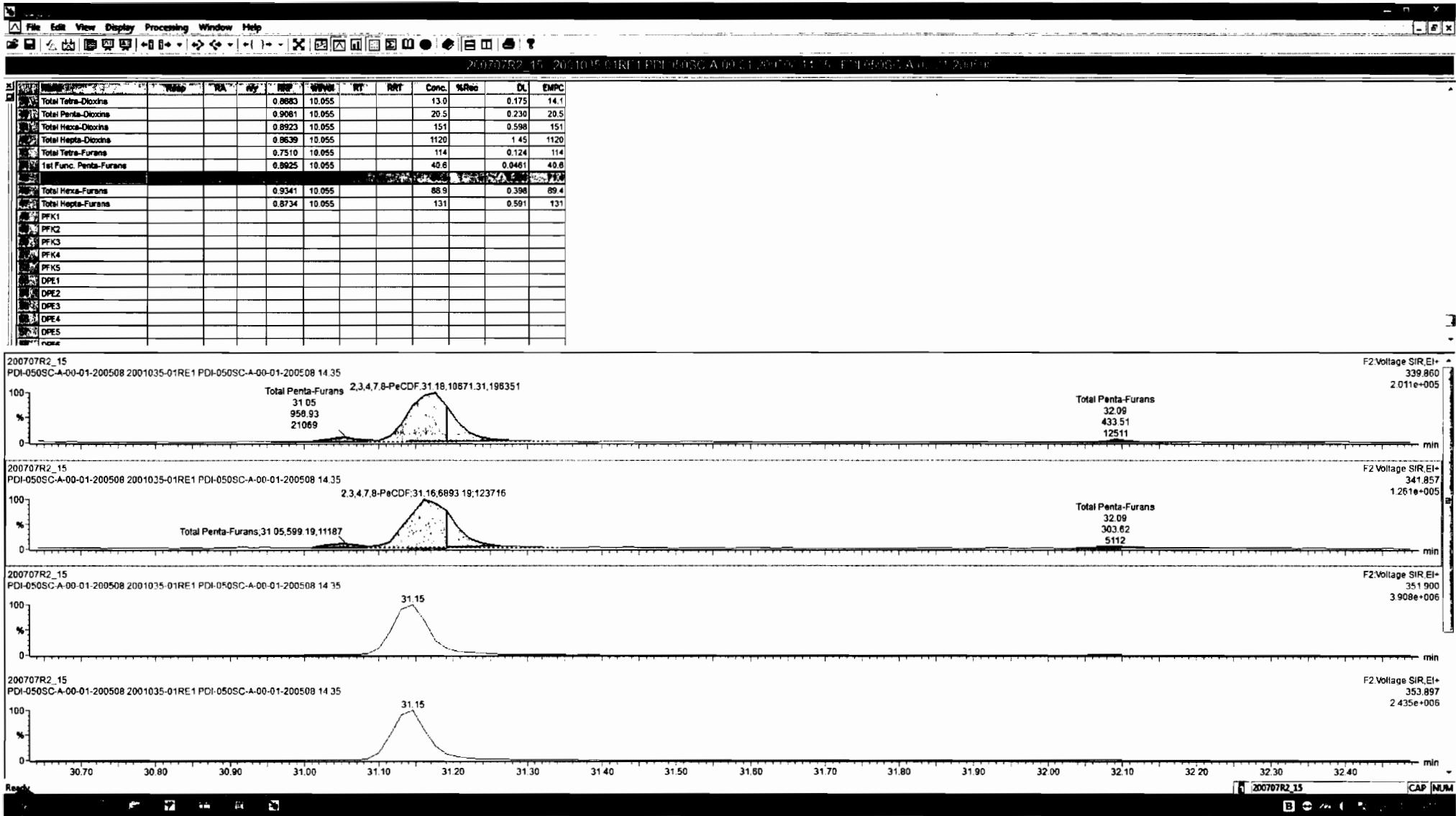


DPE2



NAME	RT	Area	Height	WVWV	WVWV	RT	WRT	Conc.	%Rec	DL	EMPC
Total Tetra-Dioxins				0.8883	10.055			13.0	0.175	14.1	
Total Penta-Dioxins				0.9081	10.055			20.5	0.230	20.5	
Total Hexa-Dioxins				0.8923	10.055			151	0.598	151	
Total Hepta-Dioxins				0.8639	10.055			1120	1.45	1120	
Total Tetra-Furans				0.7510	10.055			114	0.124	114	
1st Func. Penta-Furans				0.8925	10.055			40.6	0.0461	40.6	
Total Hexa-Furans				0.9341	10.055			88.9	0.398	89.4	
Total Hepta-Furans				0.8734	10.055			131	0.591	131	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
Inose											



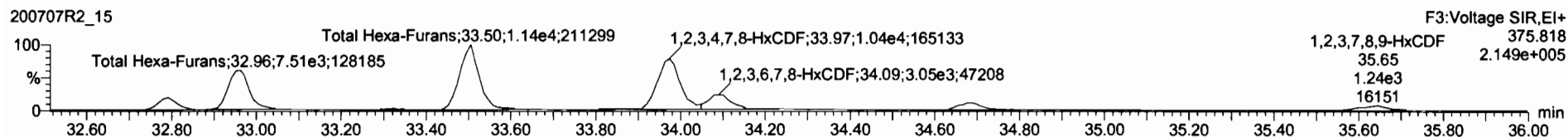
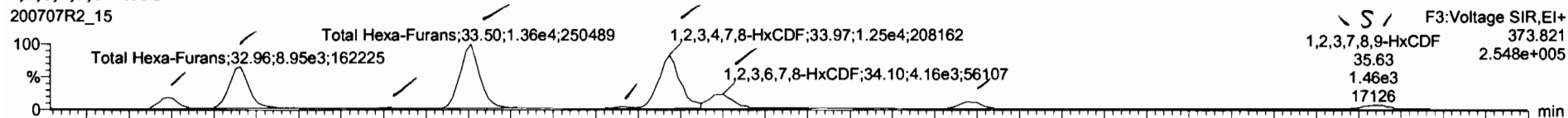


Dataset: Untitled

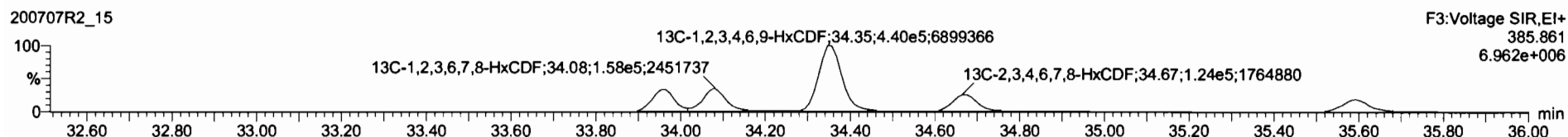
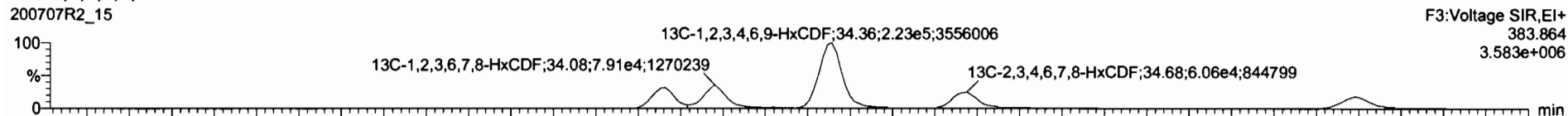
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Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

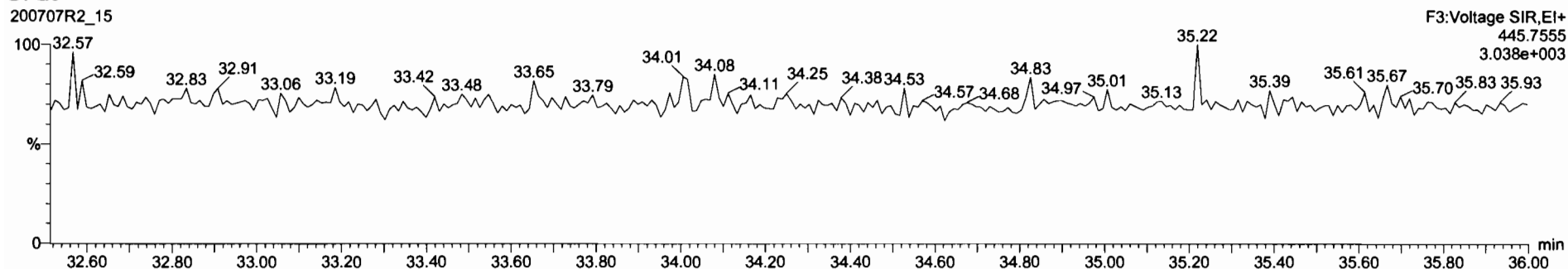
1,2,3,4,7,8-HxCDF



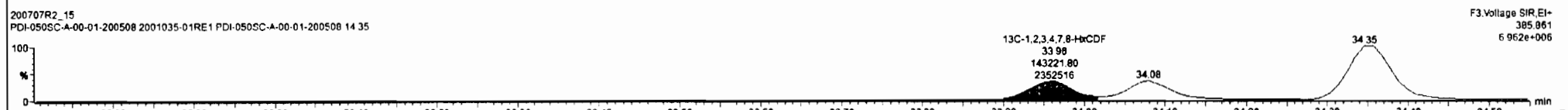
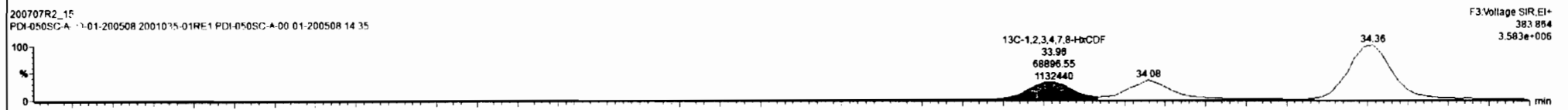
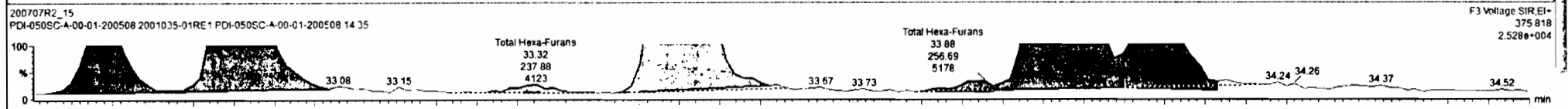
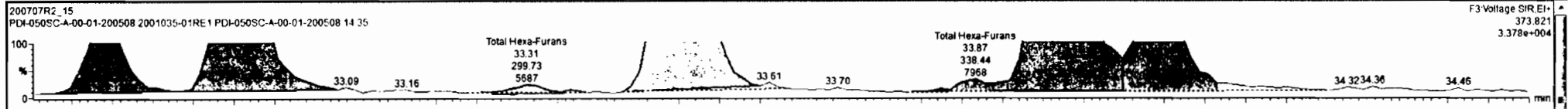
13C-1,2,3,4,7,8-HxCDF

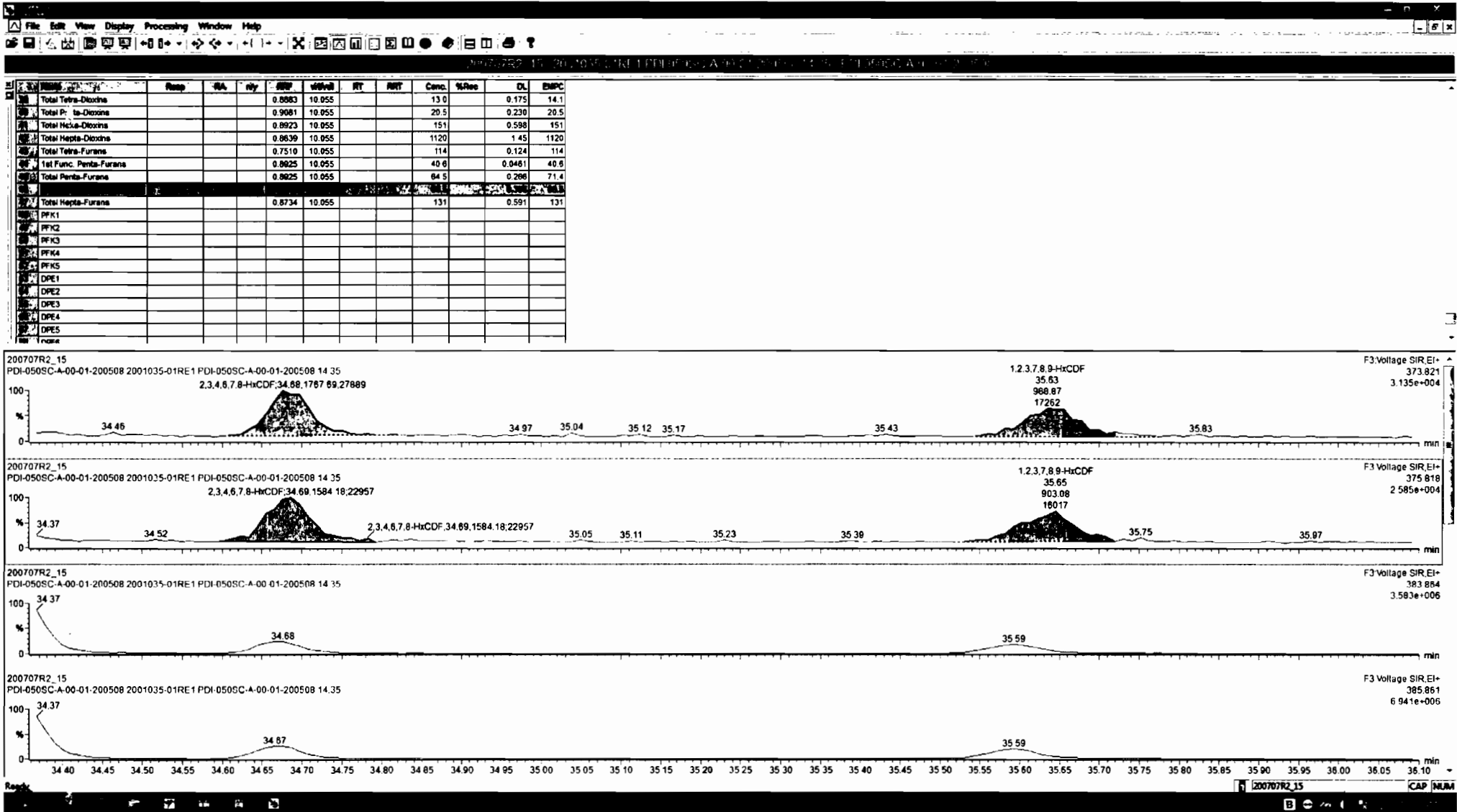


DPE3



NAME	Temp	RA	Rel	WVF	WVFI	WT	RRT	Conc.	%Rec	DL	EMPC
Total Tetra-Dioxine				0.8883	10.055			13.0	0.175	14.1	
Total Penta-Dioxine				0.9081	10.055			20.5	0.230	20.5	
Total Hexa-Dioxine				0.8923	10.055			151	0.598	151	
Total Hepta-Dioxine				0.8639	10.055			1120	1.45	1120	
Total Tetra-Furans				0.7510	10.055			114	0.124	114	
1st Func. Penta-Furans				0.8825	10.055			40.6	0.0461	40.6	
Total Penta-Furans				0.8825	10.055			64.5	0.266	71.4	
Total Hepta-Furans				0.8734	10.055			131	0.591	131	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											



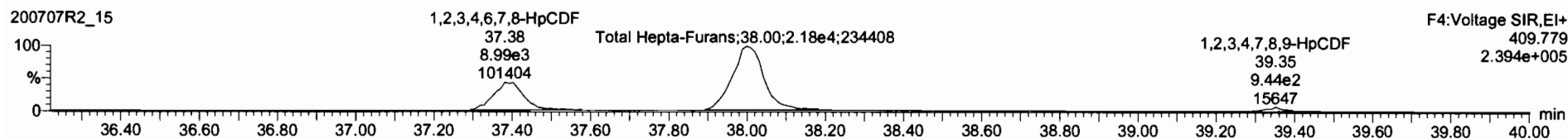
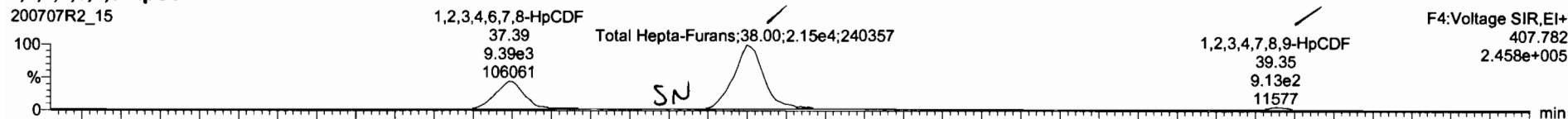


Dataset: Untitled

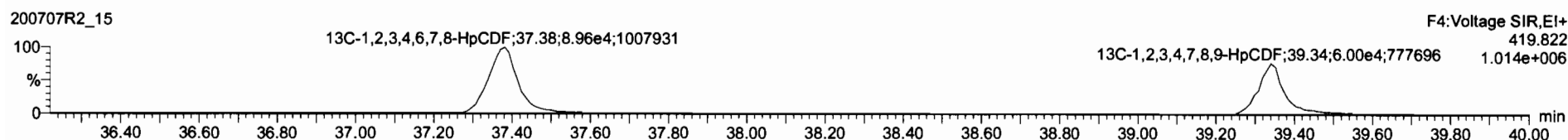
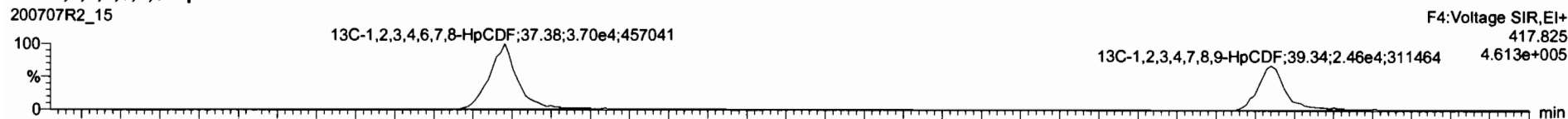
Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

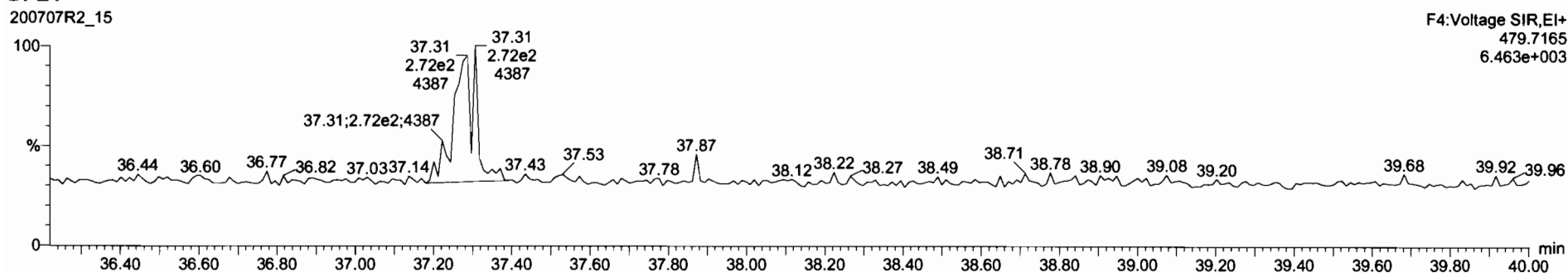
1,2,3,4,6,7,8-HpCDF



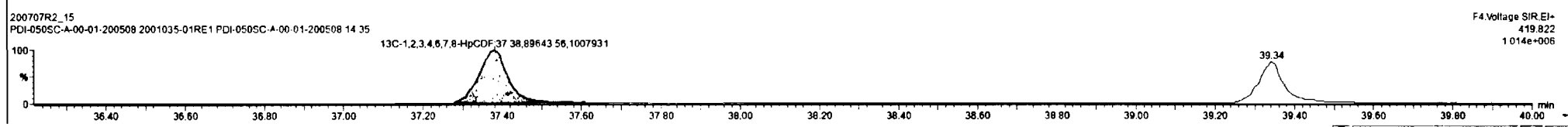
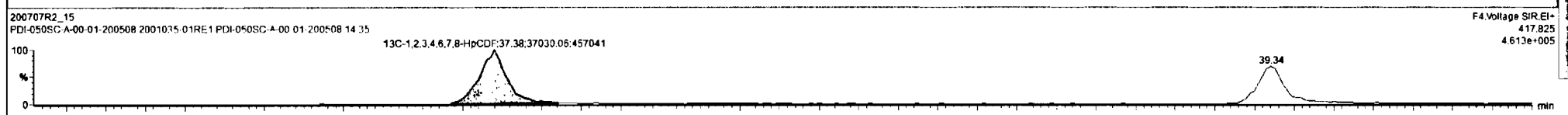
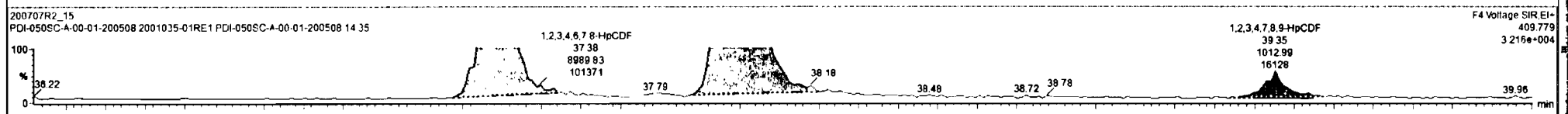
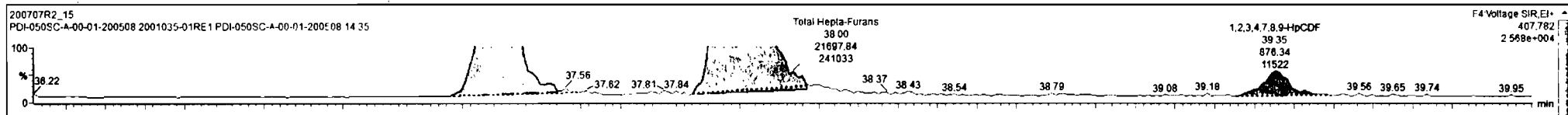
13C-1,2,3,4,6,7,8-HpCDF



DPE4



Peak	Area	Height	Width	RT	RT	Calc.	%Risk	DL	EMPC
Total Tetra-Dioxine	0.8883	10.055				13.0	0.175	14.1	
Total Penta-Dioxine	0.9081	10.055				20.5	0.230	20.5	
Total Hexa-Dioxine	0.8923	10.055				151	0.598	151	
Total Hepta-Dioxine	0.8639	10.055				1120	1.45	1120	
Total Tetra-Furans	0.7510	10.055				114	0.124	114	
1st Func. Penta-Furans	0.8825	10.055				40.6	0.0461	40.6	
Total Penta-Furans	0.8925	10.055				64.5	0.266	71.4	
Total Hexa-Furans	0.9341	10.055				88.5	0.398	88.5	
PFK1									
PFK2									
PFK3									
PFK4									
PFK5									
DPE1									
DPE2									
DPE3									
DPE4									
DPE5									
None									



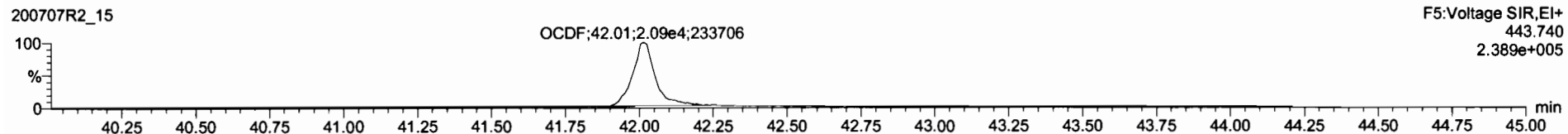
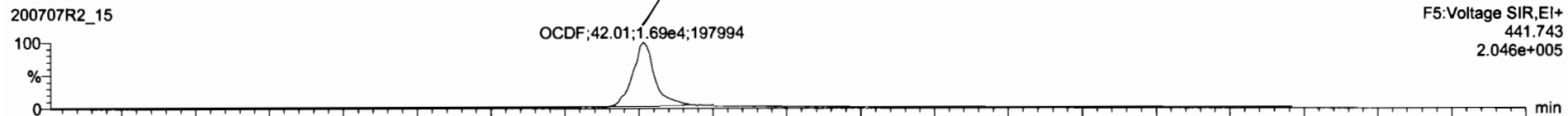
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Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time

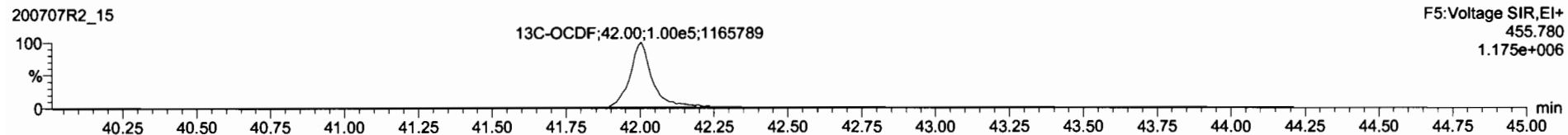
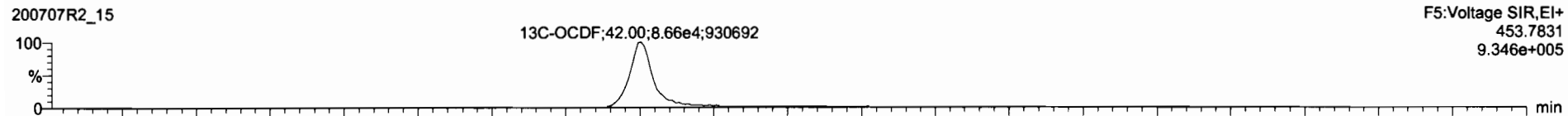
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

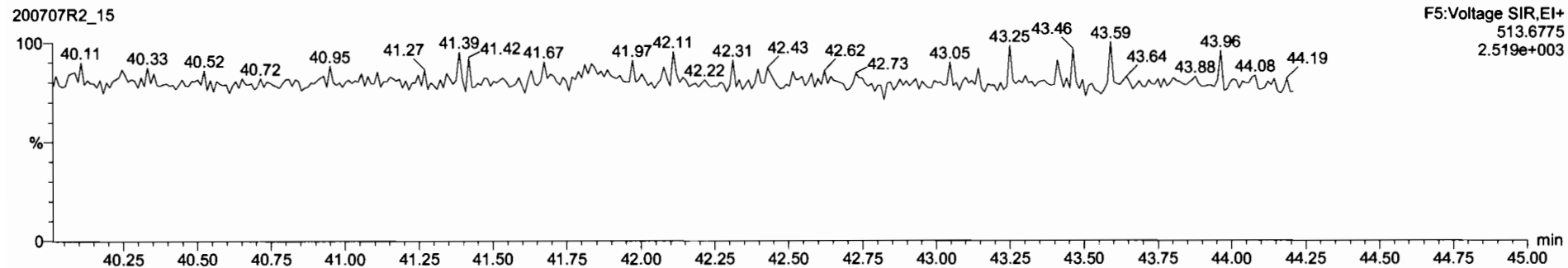
OCDF



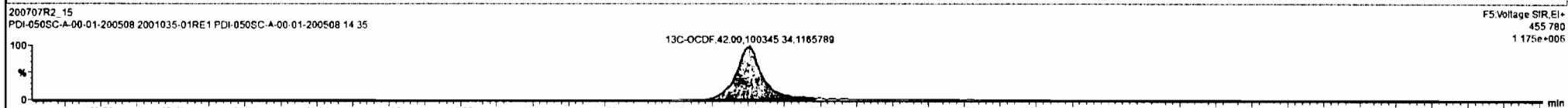
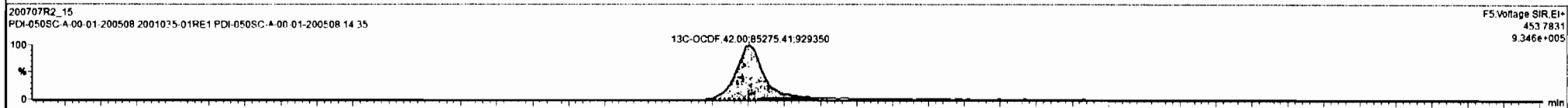
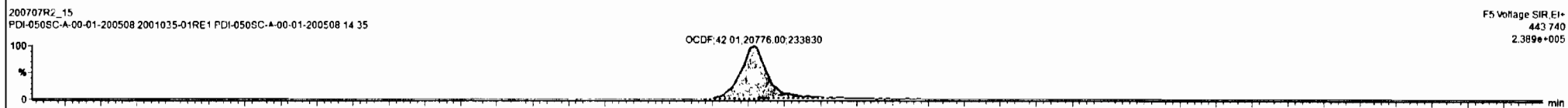
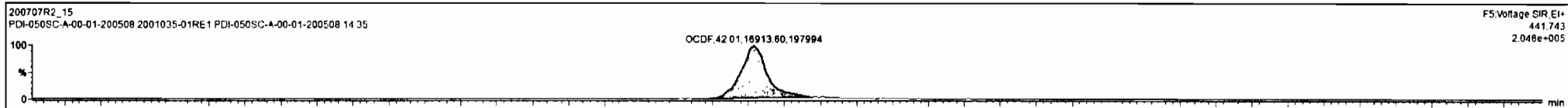
13C-OCDF



DPE5



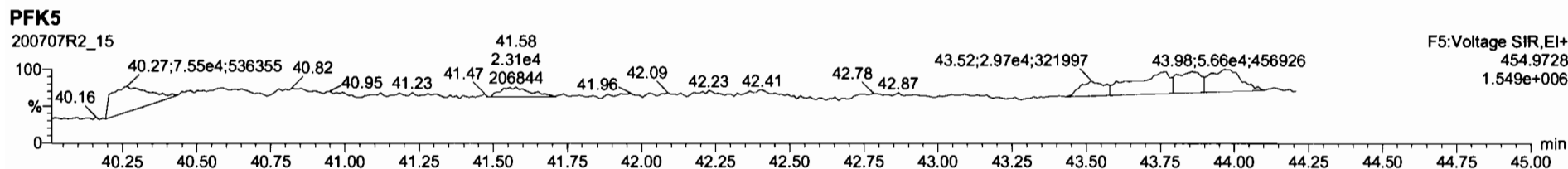
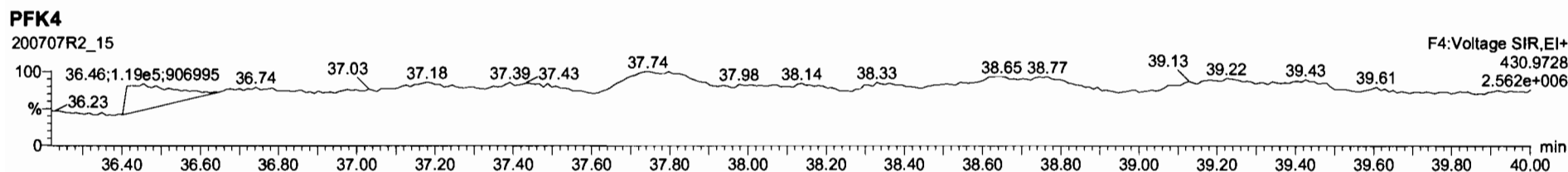
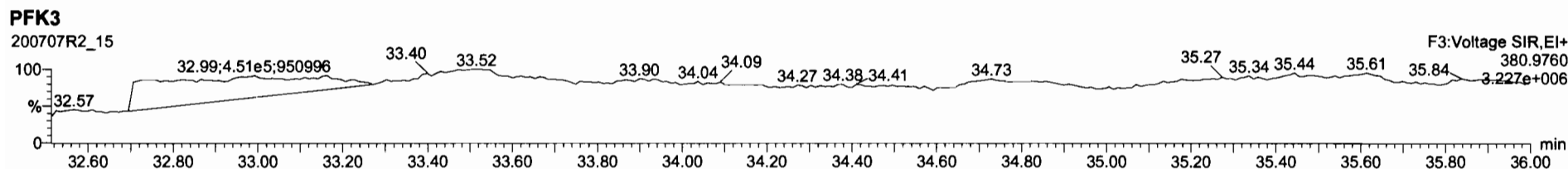
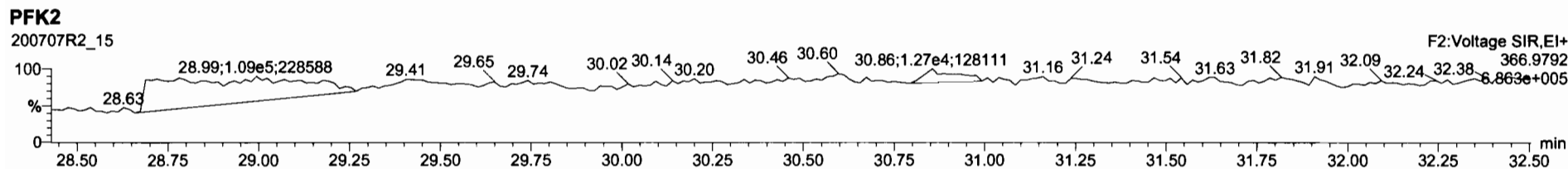
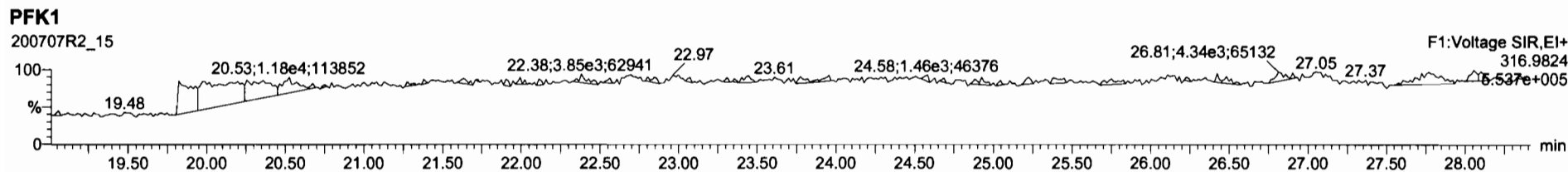
NAME	Mass	PKT	Qty	WWT	WWT%	RF	RFT	Cond.	NRec	DL	EMPC
2,3,7,8-TCDD	1.35e3	0.45	YES	0.89	10.055	26.48	1.001	0.649		0.175	0.461
1,2,3,7,8-PeCDD	2.06e3	0.75	YES	0.91	10.055	31.45	1.000	1.53		0.230	1.42
1,2,3,4,7,8-HxCDD	1.24e3	1.20	NO	1.03	10.055	34.87	1.001	1.28		0.516	1.28
1,2,3,6,7,8-HxCDD	1.04e4	1.18	NO	0.89	10.055	34.96	1.001	10.2		0.520	10.2
1,2,3,7,8,9-HxCDD	3.78e3	1.14	NO	0.88	10.055	35.22	1.000	4.50		0.896	4.50
1,2,3,4,6,7,8-HpCDD	3.13e5	1.00	NO	0.86	10.055	38.81	1.001	478		1.45	478
OCDD	1.45e6	0.88	NO	0.91	10.055	41.82	1.000	3140		3.07	3140
2,3,7,8-TCDF	3.60e4	0.76	NO	0.75	10.055	25.59	1.001	17.6		0.124	17.6
1,2,3,7,8-PeCDF	2.91e4	1.50	NO	0.89	10.055	30.17	1.000	16.1		0.255	16.1
2,3,4,7,8-PeCDF	2.35e4	1.56	NO	0.93	10.055	31.18	1.001	13.8		0.265	13.8
1,2,3,4,7,8-HxCDF	2.29e4	1.20	NO	0.88	10.055	33.97	1.000	24.3		0.347	24.3
1,2,3,6,7,8-HxCDF	7.21e3	1.36	NO	0.89	10.055	34.10	1.001	6.61		0.316	6.61
2,3,4,6,7,8-HxCDF	3.40e3	1.14	NO	0.93	10.055	34.68	1.000	3.91		0.444	3.91
1,2,3,7,8,9-HxCDF	2.70e3	1.18	NO	0.87	10.055	35.63	1.001	3.91		0.624	3.91
1,2,3,4,6,7,8-HpCDF	1.84e4	1.04	NO	0.87	10.055	37.39	1.000	33.0		0.500	33.0
1,2,3,4,7,8,9-HpCDF	1.86e3	0.97	NO	1.01	10.055	39.35	1.000	4.31		0.628	4.31
13C-2,3,7,8-TCDD	4.85e5	0.78	NO	1.16	10.055	26.45	1.026	94.3	47.4	0.153	
13C-1,2,3,7,8-PeCDD	2.95e5	0.63	NO	0.85	10.055	31.45	1.219	81.6	41.0	0.156	



Dataset: Untitled

Last Altered: Wednesday, July 08, 2020 6:54:00 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time

Name: 200707R2_15, Date: 07-Jul-2020, Time: 23:38:54, ID: 2001035-01RE1 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-6C.qld

Last Altered: Friday, July 17, 2020 9:32:53 AM Pacific Daylight Time
Printed: Friday, July 17, 2020 9:34:59 AM Pacific Daylight Time

HW 07/17/2020

C7 07/17/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

Peak	Comp	RA	n/y	RRF	WVol	Prod. RT	Ref. RT	RRTD	RRTE	Area	Concn	LOD
1	2,3,7,8-TCDD		NO	0.888	9.999	26.501		1.001			0.0895	
2	1,2,3,7,8-PeCDD		NO	0.908	9.999	31.457		1.001			0.0998	
3	1,2,3,4,7,8-HxCDD		NO	1.03	9.999	34.825		1.000			0.151	
4	1,2,3,6,7,8-HxCDD	2.67e2	0.98	YES	0.892	9.999	34.921	34.93	1.000	1.000	0.14229	0.127
5	1,2,3,7,8,9-HxCDD	2.38e2	1.33	NO	0.887	9.999	35.209	35.21	1.000	1.000	0.13985	0.140
6	1,2,3,4,6,7,8-HpCDD	4.89e3	1.11	NO	0.864	9.999	38.757	38.74	1.000	1.000	4.5346	4.53
7	OCDD	2.81e4	0.89	NO	0.914	9.999	41.727	41.75	1.000	1.001	35.313	35.3
8	2,3,7,8-TCDF	2.53e2	0.71	NO	0.751	9.999	25.597	25.60	1.001	1.001	0.082845	0.0741
9	1,2,3,7,8-PeCDF	2.86e2	2.36	YES	0.893	9.999	30.175	30.15	1.001	1.000	0.07286	0.0290
10	2,3,4,7,8-PeCDF	1.34e2	2.08	YES	0.935	9.999	31.161	31.16	1.001	1.001	0.035742	0.0276
11	1,2,3,4,7,8-HxCDF	2.32e2	1.01	YES	0.884	9.999	33.941	33.95	1.000	1.000	0.11644	0.0635
12	1,2,3,6,7,8-HxCDF			NO	0.889	9.999	34.068		1.000		0.0584	
13	2,3,4,6,7,8-HxCDF			NO	0.934	9.999	34.690		1.001		0.0637	
14	1,2,3,7,8,9-HxCDF			NO	0.871	9.999	35.560		1.000		0.101	
15	1,2,3,4,6,7,8-HpCDF	9.86e2	1.09	NO	0.873	9.999	37.376	37.35	1.001	1.000	0.75773	0.0986
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	9.999	39.288		1.000		0.122	
17	OCDF	8.25e2	0.95	NO	0.806	9.999	41.918	41.96	1.000	1.001	1.0329	1.03
18	13C-2,3,7,8-TCDD	6.40e5	0.79	NO	1.16	9.999	26.491	26.47	1.026	1.026	206.79	103
19	13C-1,2,3,7,8-PeCDD	5.59e5	0.62	NO	0.849	9.999	31.674	31.43	1.227	1.218	246.01	123
20	13C-1,2,3,4,7,8-HxCDD	3.39e5	1.30	NO	0.779	9.999	34.819	34.81	1.014	1.014	179.69	89.8
21	13C-1,2,3,6,7,8-HxCDD	4.20e5	1.27	NO	1.02	9.999	34.932	34.92	1.017	1.017	170.69	85.3
22	13C-1,2,3,7,8,9-HxCDD	3.84e5	1.29	NO	0.903	9.999	35.204	35.20	1.025	1.025	175.68	87.8
23	13C-1,2,3,4,6,7,8-HpCDD	2.50e5	1.05	NO	0.689	9.999	38.726	38.74	1.128	1.128	149.71	74.8
24	13C-OCDD	3.48e5	0.84	NO	0.652	9.999	41.748	41.73	1.216	1.215	220.65	55.2
25	13C-2,3,7,8-TCDF	8.13e5	0.79	NO	1.06	9.999	25.534	25.57	0.989	0.991	194.65	97.3
26	13C-1,2,3,7,8-PeCDF	8.30e5	1.56	NO	0.838	9.999	30.058	30.15	1.165	1.168	251.00	125
27	13C-2,3,4,7,8-PeCDF	8.04e5	1.62	NO	0.817	9.999	31.011	31.13	1.202	1.206	249.71	125
28	13C-1,2,3,4,7,8-HxCDF	4.50e5	0.51	NO	1.01	9.999	33.950	33.94	0.989	0.989	184.57	92.3
29	13C-1,2,3,6,7,8-HxCDF	5.11e5	0.52	NO	1.17	9.999	34.074	34.06	0.992	0.992	180.90	90.4
30	13C-2,3,4,6,7,8-HxCDF	4.55e5	0.49	NO	1.02	9.999	34.647	34.65	1.009	1.009	184.19	92.1
31	13C-1,2,3,7,8,9-HxCDF	3.68e5	0.49	NO	0.860	9.999	35.547	35.56	1.035	1.036	177.14	88.6

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-6C.qld

Last Altered: Friday, July 17, 2020 9:32:53 AM Pacific Daylight Time
Printed: Friday, July 17, 2020 9:34:59 AM Pacific Daylight Time

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

#	Name	Resp	RA	n/y	RRF	w/ro	Pred.RT	RT	PRT	RRT	Area	Area	Area	Area
32	13C-1,2,3,4,6,7,8-HpCDF	2.98e5	0.43	NO	0.774	9.999	37.295	37.34	1.086	1.087	159.05	79.5	0.545	
33	13C-1,2,3,4,7,8,9-HpCDF	1.76e5	0.43	NO	0.521	9.999	39.324	39.29	1.145	1.144	139.94	70.0	0.810	
34	13C-OCDF	3.96e5	0.87	NO	0.746	9.999	41.920	41.92	1.221	1.221	219.49	54.9	0.343	
35	37Cl-2,3,7,8-TCDD	2.40e5			1.04	9.999	26.522	26.48	1.028	1.026	86.429	108	0.0743	
36	13C-1,2,3,4-TCDD	5.35e5	0.78	NO	1.00	9.999	25.890	25.81	1.000	1.000	200.02	100	0.358	
37	13C-1,2,3,4-TCDF	7.89e5	0.79	NO	1.00	9.999	24.360	24.12	1.000	1.000	200.02	100	0.506	
38	13C-1,2,3,4,6,9-HxCDF	4.84e5	0.49	NO	1.00	9.999	34.420	34.33	1.000	1.000	200.02	100	0.630	
39	Total Tetra-Dioxins				0.888	9.999	24.620		0.000		0.25832		0.0895	0.258
40	Total Penta-Dioxins				0.908	9.999	29.960		0.000		0.045142		0.0998	0.406
41	Total Hexa-Dioxins				0.892	9.999	33.635		0.000		2.7626		0.173	2.89
42	Total Hepta-Dioxins				0.864	9.999	37.640		0.000		11.563		0.208	11.6
43	Total Tetra-Furans				0.751	9.999	23.610		0.000		0.082845		0.0741	0.408
44	1st Func. Penta-Furans				0.893	9.999	27.580		0.000		0.33824		0.0261	0.338
45	Total Penta-Furans				0.893	9.999	29.275		0.000		0.066576		0.0290	0.280
46	Total Hexa-Furans				0.934	9.999	33.555		0.000		0.27630		0.0667	0.604
47	Total Hepta-Furans				0.873	9.999	37.835		0.000		1.6153		0.115	1.62

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-6C.qld

Last Altered: Friday, July 17, 2020 9:32:53 AM Pacific Daylight Time
 Printed: Friday, July 17, 2020 9:34:59 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Integ	Resp	Area	Area	Area
Total Tetra-Dioxins	24.30	4.876e3	5.374e3	3.447e2	3.897e2	0.88	NO	7.344e2	0.25832	0.25832	0.0895

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Integ	Resp	Area	Area	Area
Total Penta-Dioxins	29.22	2.068e3	6.552e3	1.089e2	3.094e2	0.35	YES	0.000e0	0.00000	0.11098	0.0998
Total Penta-Dioxins	29.71	3.250e3	8.173e3	1.723e2	4.037e2	0.43	YES	0.000e0	0.00000	0.17561	0.0998
Total Penta-Dioxins	30.72	2.121e3	4.329e3	7.282e1	3.239e2	0.22	YES	0.000e0	0.00000	0.074229	0.0998
Total Penta-Dioxins	31.85	1.650e3	2.697e3	4.372e1	7.087e1	0.62	NO	1.146e2	0.045142	0.045142	0.0998

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Integ	Resp	Area	Area	Area
Total Hexa-Dioxins	33.32	3.477e4	2.826e4	1.646e3	1.277e3	1.29	NO	2.923e3	1.7208	1.7208	0.173
Total Hexa-Dioxins	34.13	1.638e4	1.069e4	8.718e2	6.602e2	1.32	NO	1.532e3	0.90191	0.90191	0.173
1,2,3,6,7,8-HxCDD	34.93	3.666e3	3.097e3	1.320e2	1.345e2	0.98	YES	2.665e2	0.00000	0.12730	0.160
1,2,3,7,8,9-HxCDD	35.21	3.576e3	2.229e3	1.358e2	1.022e2	1.33	NO	2.379e2	0.13985	0.13985	0.187

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Integ	Resp	Area	Area	Area
Total Hepta-Dioxins	37.74	5.323e4	4.592e4	3.966e3	3.613e3	1.10	NO	7.579e3	7.0281	7.0281	0.208
1,2,3,4,6,7,8-HpCDD	38.74	3.810e4	3.449e4	2.577e3	2.313e3	1.11	NO	4.890e3	4.5346	4.5346	0.208

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Integ	Resp	Area	Area	Area
Total Tetra-Furans	21.49	3.752e3	4.954e3	2.899e2	3.578e2	0.81	NO	0.000e0	0.00000	0.21215	0.0741
Total Tetra-Furans	24.66	2.633e3	3.246e3	1.956e2	1.954e2	1.00	YES	0.000e0	0.00000	0.11326	0.0741
2,3,7,8-TCDF	25.60	1.976e3	2.837e3	1.047e2	1.482e2	0.71	NO	2.529e2	0.082845	0.082845	0.0741

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-6C.qld

Last Altered: Friday, July 17, 2020 9:32:53 AM Pacific Daylight Time

Printed: Friday, July 17, 2020 9:34:59 AM Pacific Daylight Time

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Yes	Resp	Conc	EMF C	DC
1st Func. Penta-Furans	27.61	1.076e4	8.236e3	7.138e2	5.193e2	1.37	NO	1.233e3	0.33824	0.33824	0.0261

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Yes	Resp	Conc	EMF C	DC
Total Penta-Furans	29.21	6.809e3	2.731e3	2.520e2	1.320e2	1.91	YES	0.000e0	0.00000	0.092337	0.0290
1,2,3,7,8-PeCDF	30.15	4.557e3	2.336e3	2.010e2	8.517e1	2.36	YES	2.861e2	0.00000	0.058662	0.0290
Total Penta-Furans	30.44	2.617e3	3.248e3	7.200e1	8.212e1	0.88	YES	0.000e0	0.00000	0.032493	0.0290
2,3,4,7,8-PeCDF	31.16	3.434e3	1.653e3	9.074e1	4.361e1	2.08	YES	1.344e2	0.00000	0.029586	0.0276
Total Penta-Furans	31.18	3.730e3	2.121e3	1.493e2	9.336e1	1.60	NO	2.427e2	0.066576	0.066576	0.0290

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Yes	Resp	Conc	EMF C	DC
Total Hexa-Furans	32.96	6.965e3	5.689e3	2.954e2	2.063e2	1.43	YES	0.000e0	0.00000	0.22174	0.0667
Total Hexa-Furans	33.49	7.293e3	5.191e3	3.163e2	2.594e2	1.22	NO	5.757e2	0.27630	0.27630	0.0667
1,2,3,4,7,8-HxCDF	33.95	2.526e3	2.983e3	1.164e2	1.153e2	1.01	YES	2.317e2	0.00000	0.10567	0.0635

Hepta-Furans

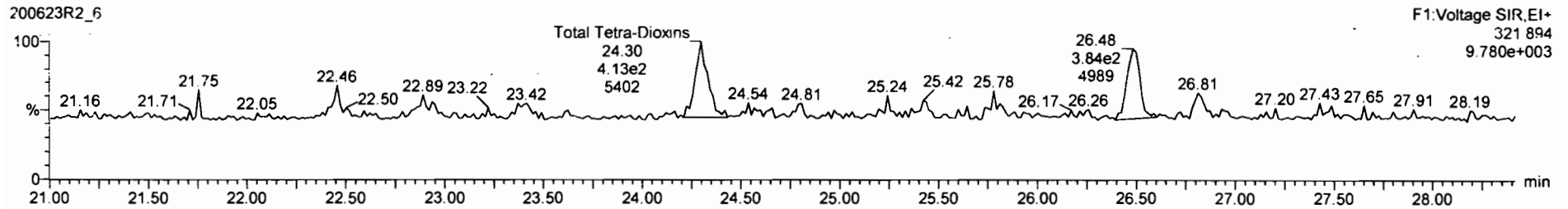
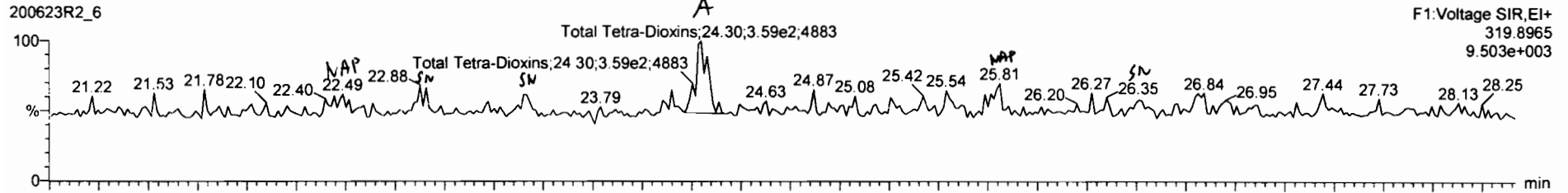
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Yes	Resp	Conc	EMF C	DC
1,2,3,4,6,7,8-HpCDF	37.35	6.723e3	6.779e3	5.155e2	4.708e2	1.09	NO	9.863e2	0.75773	0.75773	0.0986
Total Hepta-Furans	37.95	6.559e3	5.074e3	4.686e2	4.199e2	1.12	NO	8.884e2	0.85761	0.85761	0.115

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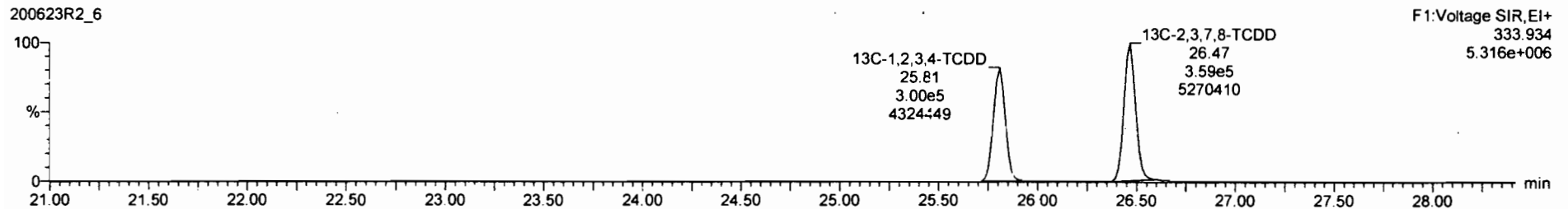
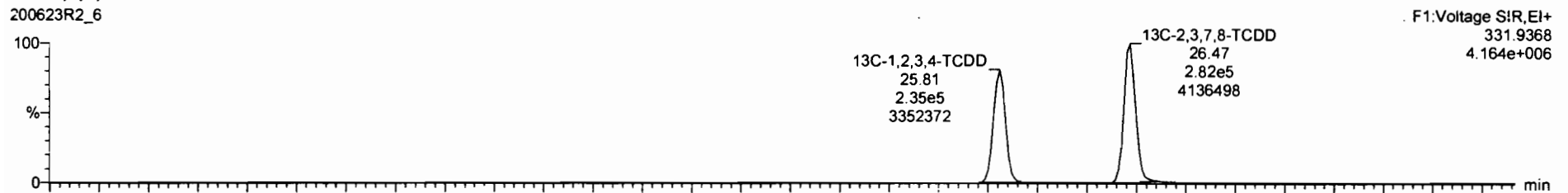
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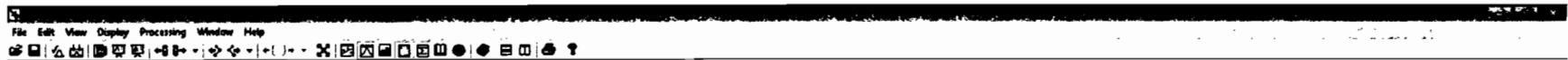
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2,3,7,8-TCDD



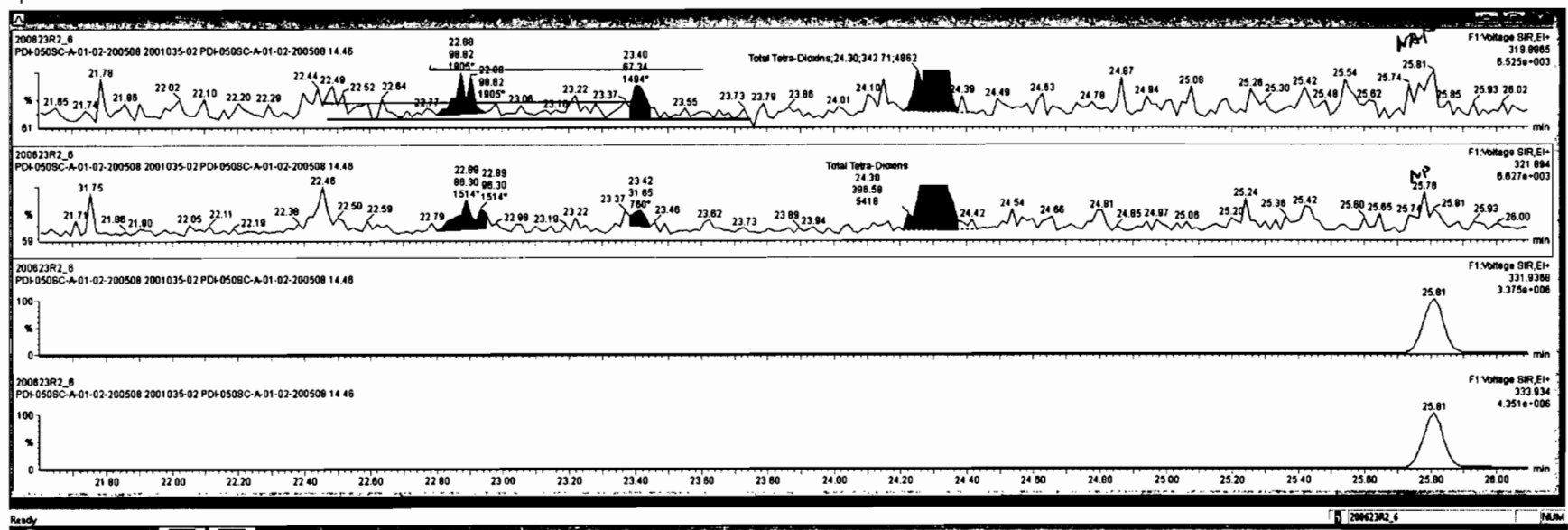
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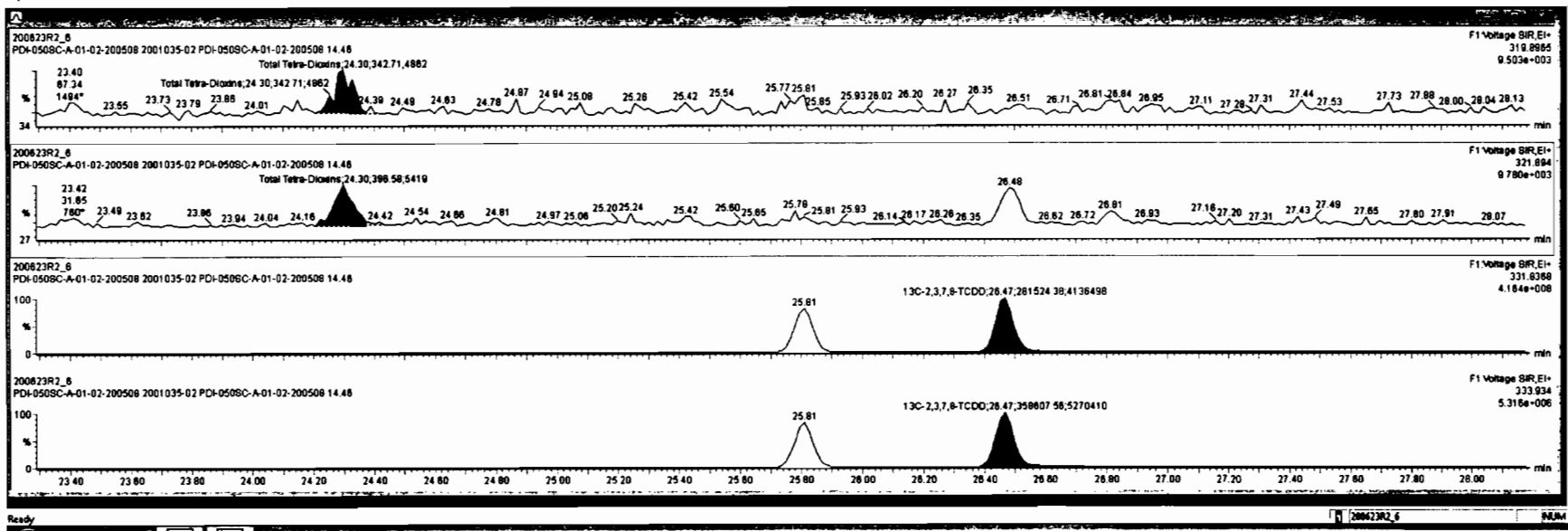
Peak	Name	RT	Area	Height	Width	Area%	Height%
40	Total Penta-Dioxins	0.8081	9.999	29.98		0.0371	
41	Total Hexa-Dioxins	0.8923	9.999	33.83		0.173	2.89
42	Total Hepta-Dioxins	0.8636	9.999	37.84		0.208	11.5
43	Total Tetra-Furans	0.7510	9.999	23.81		0.0358	0.246
44	Total Penta-Furans	0.8925	9.999	27.59		0.0281	0.338
45	Total Hexa-Furans	0.8925	9.999	29.27		0.0280	
46	Total Hepta-Furans	0.8341	9.999	33.56		0.276	0.0887
47	Total Hepta-Furans	0.8734	9.999	37.83		1.57	0.115
48	PFCS						

Name	RT	Int Resp	Ext Resp	GA	Int	ExtPC	Conc.
1 Total Tetra-Dioxins	24.30	3.427e2	3.986e2	0.89	MC	0.28006	0.28006



Peak	Name	RT	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
40	Total Penta-Dioxine		0.8201	9.299	29.99						0.0371							
41	Total Hexa-Dioxine		0.8923	9.299	33.83						2.89				0.173			2.89
42	Total Hepta-Dioxine		0.8930	9.299	37.84						11.5				0.208			11.5
43	Total Tetra-Furane		0.7510	9.299	23.81						0.000				0.0368			0.240
44	Total Func. Penta-Furane		0.8625	9.299	27.58						0.328				0.0281			0.338
45	Total Penta-Furane		0.8625	9.299	28.27										0.0290			
46	Total Hexa-Furane		0.8341	9.299	33.58						0.276				0.0687			0.498
47	Total Hepta-Furane		0.8734	9.299	37.83						1.57				0.115			1.57
48	PP1X1																	

Name	RT	cal Resp	int Resp	RA	adj	SHPC	Conc
Total Tetra-Dioxine	24.30	3.427e2	3.895e2	0.86	NO	0.28006	0.28006



Dataset: Untitled

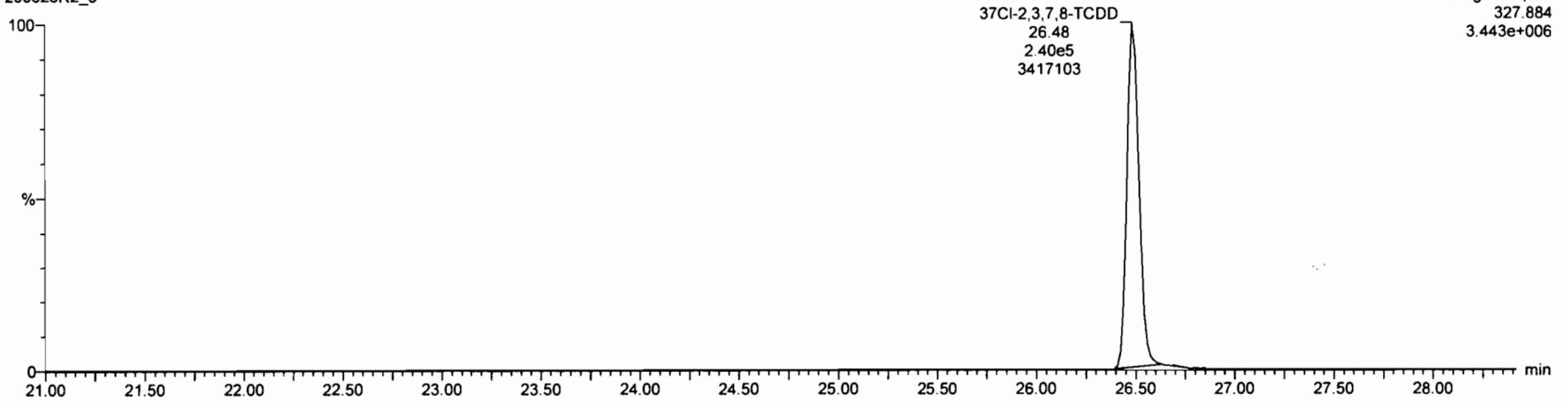
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Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

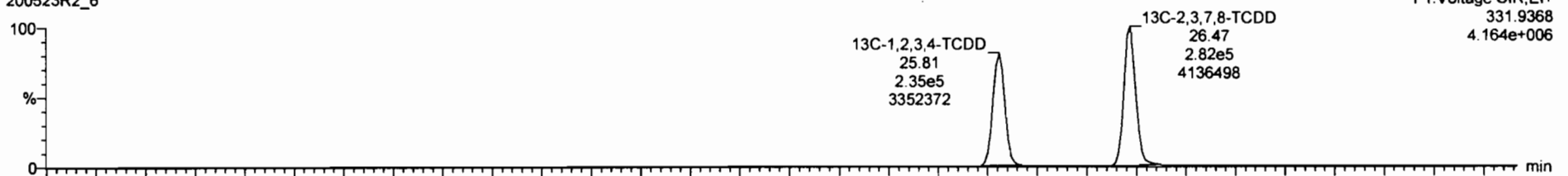
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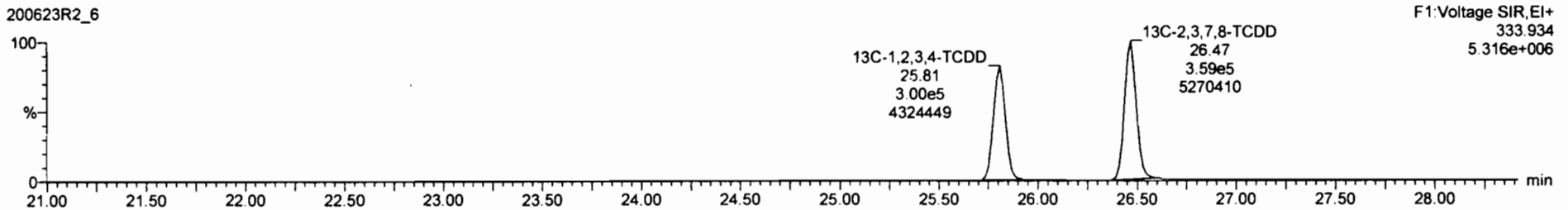


13C-1,2,3,4-TCDD

200523R2_6



200623R2_6

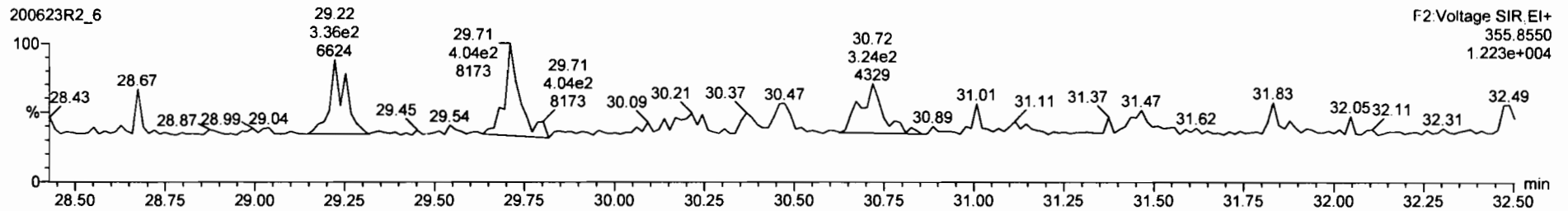
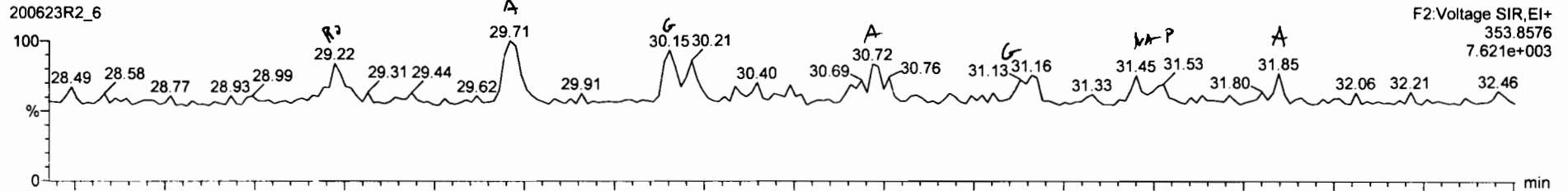


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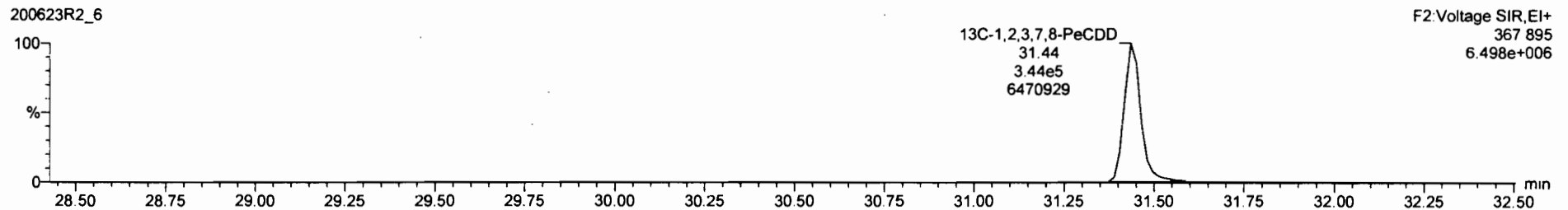
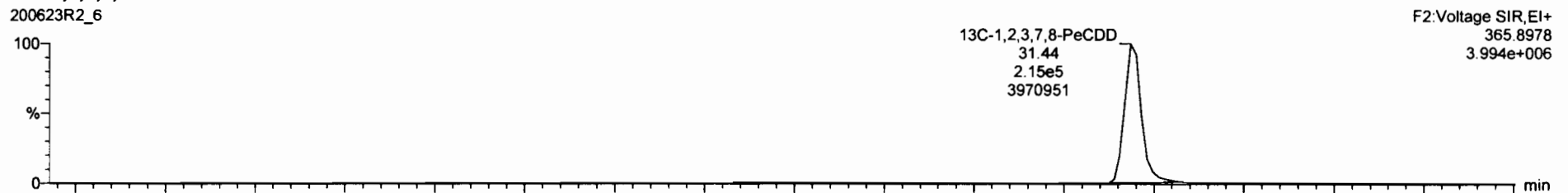
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

1,2,3,7,8-PeCDD

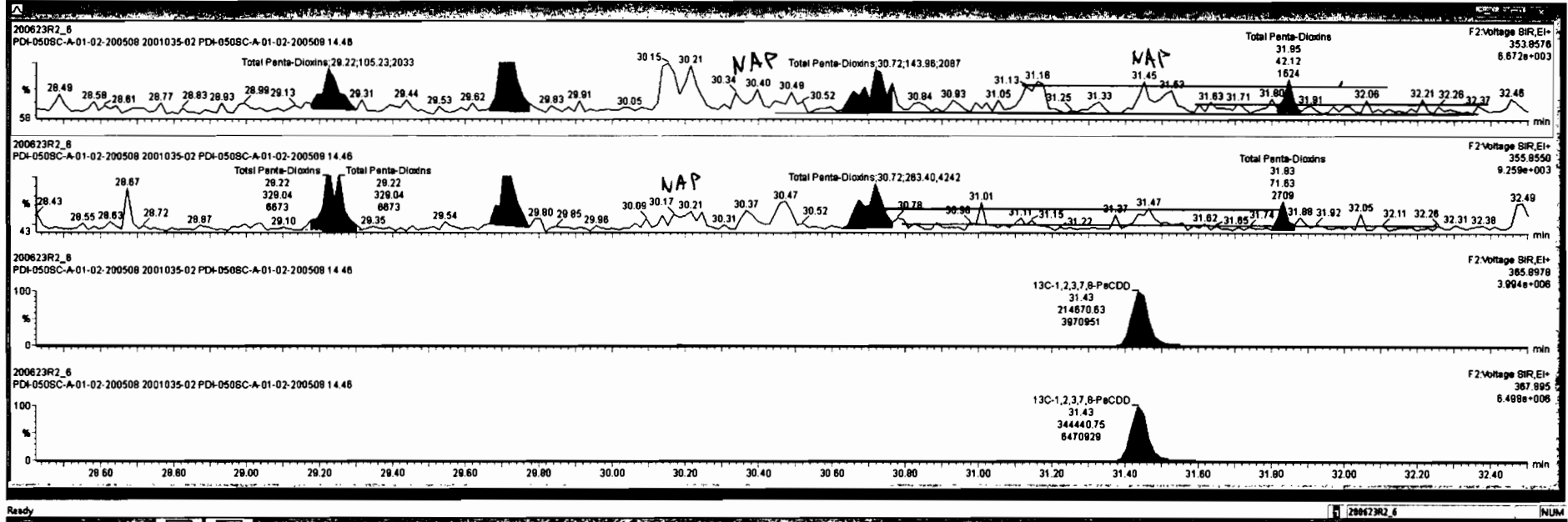


13C-1,2,3,7,8-PeCDD



RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
30.72	1440e2	2.634e2	0.55	NO	0.18048	0.00000						
29.22	1.052e2	3.290e2	0.32	YES	0.10727	0.00000						
29.71	1.879e2	2.911e2	0.65	NO	0.18871	0.00000						

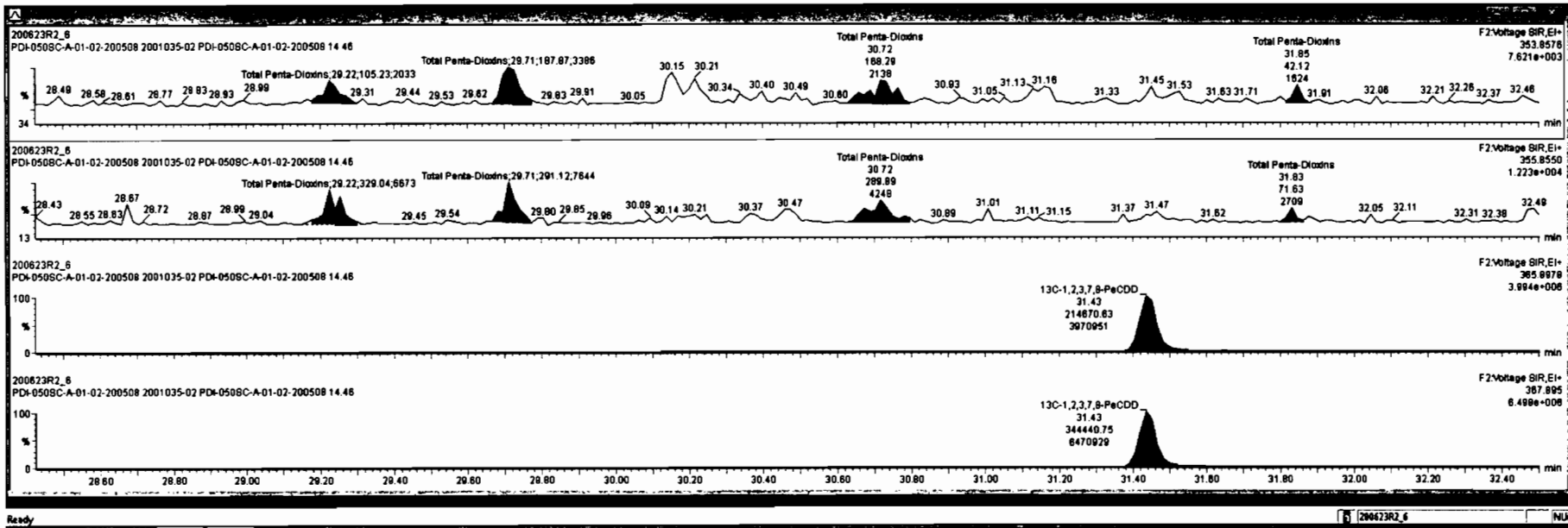
RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
31.85	4.212e1	7.163e1	0.58	NO	0.044811	0.044911			
30.72	1.440e2	2.634e2	0.55	NO	0.18048	0.00000			
29.22	1.052e2	3.290e2	0.32	YES	0.10727	0.00000			
29.71	1.879e2	2.911e2	0.65	NO	0.18871	0.00000			





Sample	Comp	Area	Height	Area%	Height%	Concn	Unit
41	Total Tetra-Dioxins	0.8883	9.989	24.82		0.280	
42	Total Hexa-Dioxins	0.8823	9.989	33.83		2.89	
43	Total Hepta-Dioxins	0.8839	9.989	37.84		8.95	
44	Total Tetra-Furans	0.7510	9.989	23.81		0.0358	0.249
45	1st Func. Penta-Furans	0.8825	9.989	27.58		0.338	0.0281
46	Total Penta-Furans	0.8825	9.989	28.27		0.0290	
47	Total Hexa-Furans	0.8341	9.989	33.58		0.276	0.0887
48	Total Hepta-Furans	0.8734	9.989	37.83		1.57	0.115
49	PFK1						

Sample	Name	RT	Int-Flag	MS-Flag	RA	Int	BPIC	Conc.
1	Total Penta-Dioxins	31.85	4.21e1	7.183e1	0.59	NO	0.044811	0.044811
2	Total Penta-Dioxins	30.72	1.883e2	2.899e2	0.59	NO	0.18051	0.00000
3	Total Penta-Dioxins	29.22	1.052e2	3.290e2	0.32	YES	0.10727	0.00000
4	Total Penta-Dioxins	29.71	1.879e2	2.911e2	0.85	NO	0.18671	0.00000



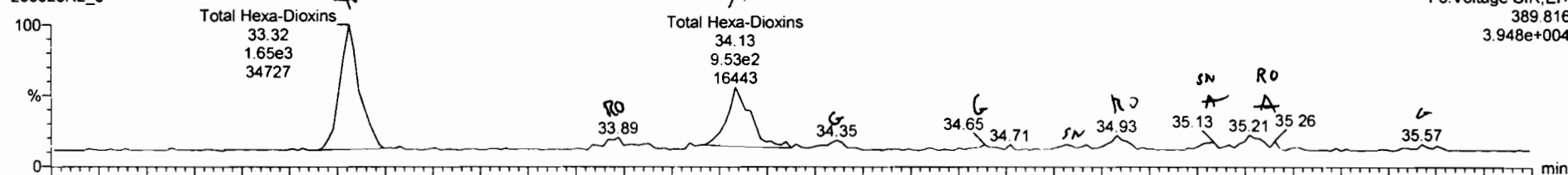
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

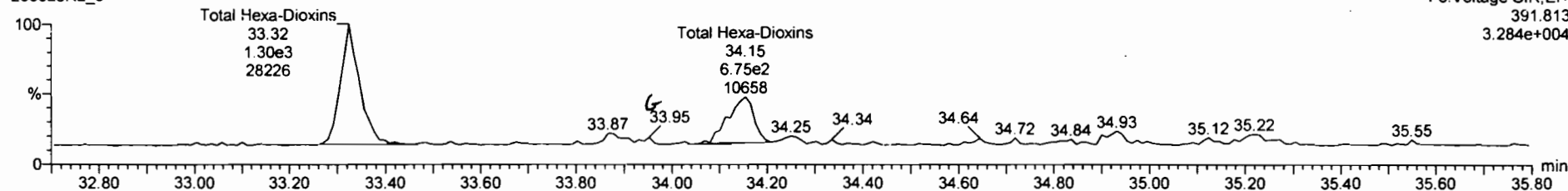
1,2,3,4,7,8-HxCDD

200623R2_6



F3:Voltage SIR, EI+
389.816
3.948e+004

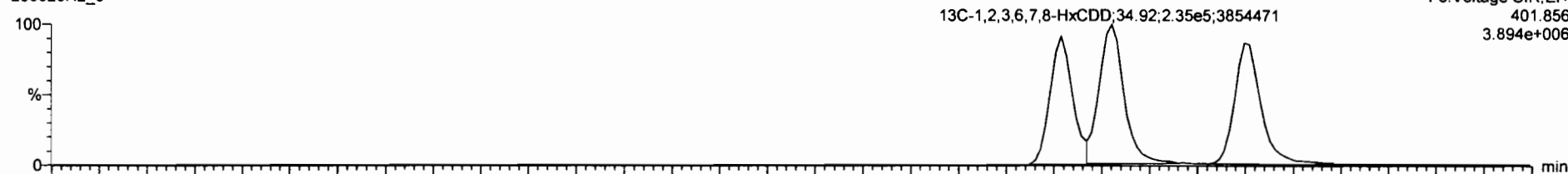
200623R2_6



F3:Voltage SIR, EI+
391.813
3.284e+004

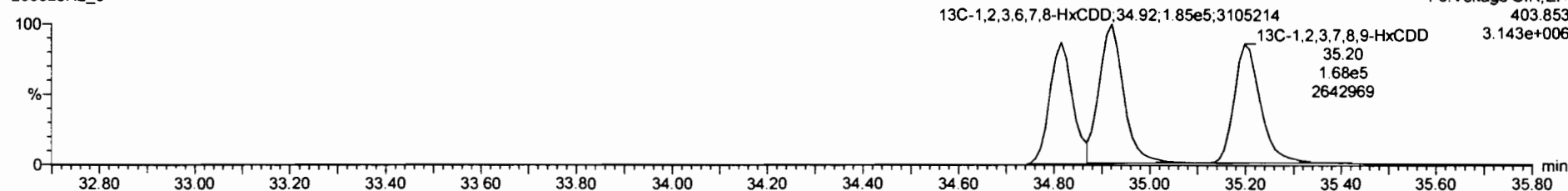
13C-1,2,3,4,7,8-HxCDD

200623R2_6



F3:Voltage SIR, EI+
401.856
3.894e+006

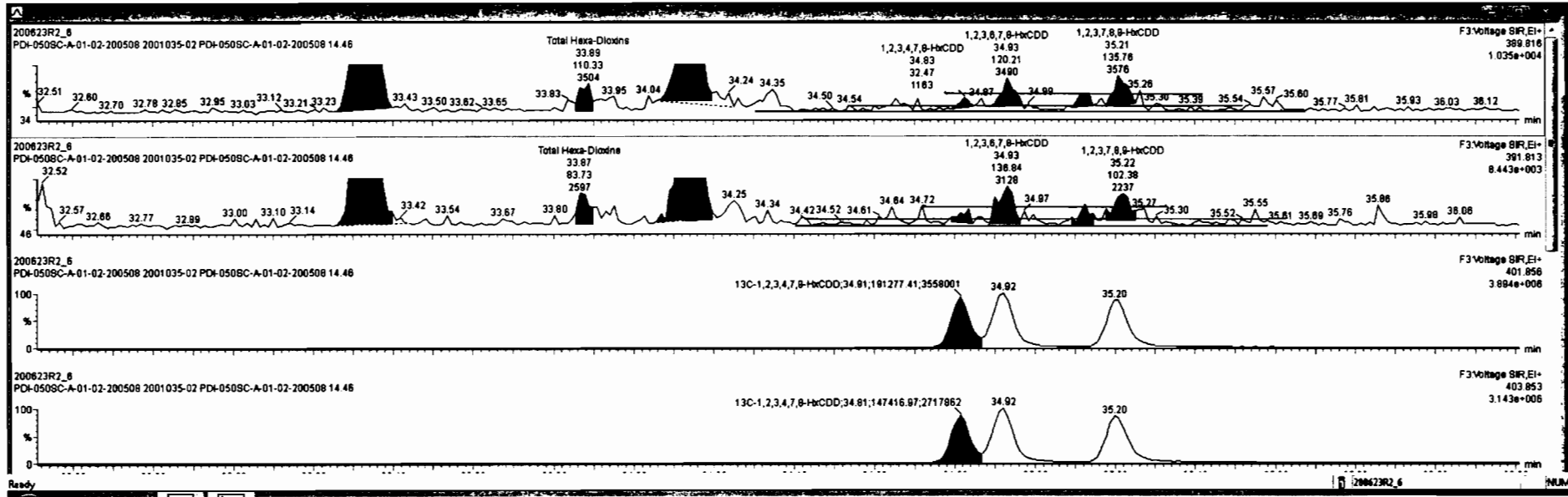
200623R2_6



F3:Voltage SIR, EI+
403.853
3.143e+006

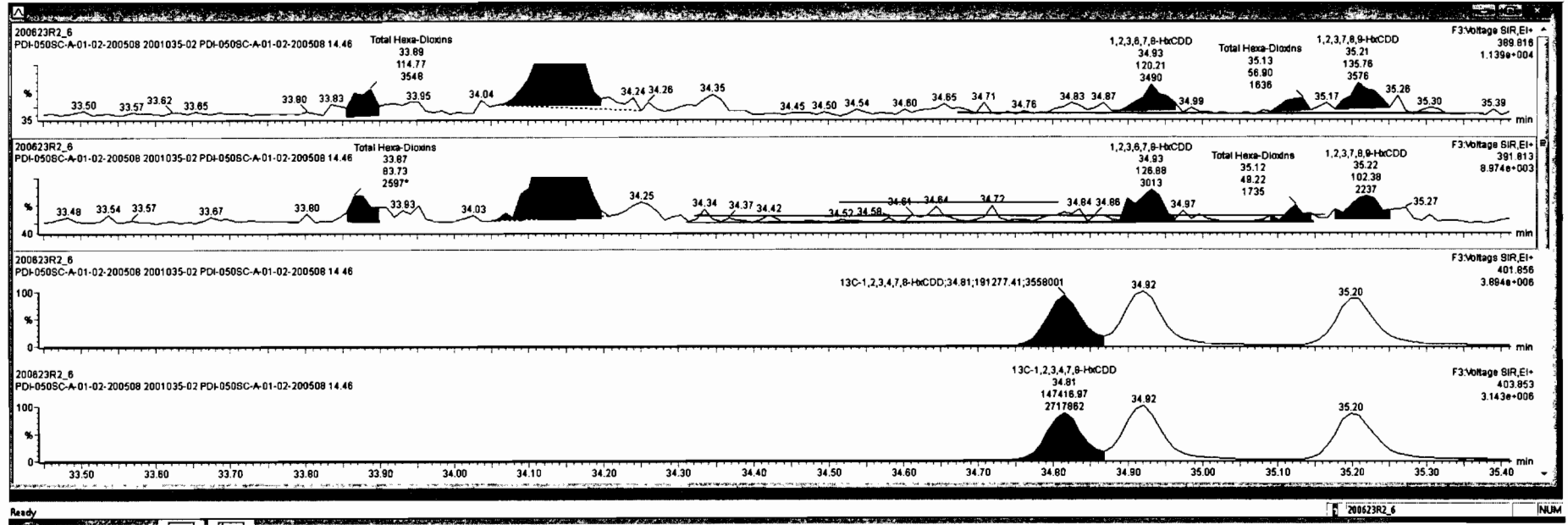
Item	Comp	RT	Qty	Area	Height	Width	RT	Area	Height	Width	Comp	Area	Height	Width
43	Total Tetra-Dioxins			0.8983	9.989	24.82					0.280	0.0995	0.280	
44	Total Penta-Dioxins			0.9081	9.989	25.98					0.0448	0.0998	0.515	
45	Total Hexa-Dioxins			0.8636	9.989	37.84					4.28	0.208	4.28	
46	Total Tetra-Furans			0.7510	9.989	23.81					0.315	0.0741	0.438	
47	1st Func. Penta-Furans			0.8625	9.989	27.58					0.338	0.0261	0.338	
48	Total Penta-Furans			0.8925	9.989	29.27					0.000	0.0290	0.298	
49	Total Hexa-Furans			0.8341	9.989	33.58					0.285	0.0667	0.731	
49	Total Hepta-Furans			0.8734	9.989	37.83					1.54	0.115	1.54	
49	PFK1													

Item	RT	nd Resp	int Resp	RA	Qty	Area	Comp	
1	Total Hexa-Dioxins	33.32	1.846e3	1.284e3	1.28	NO	1.7250	1.7250
2	Total Hexa-Dioxins	33.89	1.103e2	8.373e1	1.32	NO	0.11424	0.11424
3	Total Hexa-Dioxins	34.13	8.563e2	6.786e2	1.26	NO	0.80368	0.80368
4	1,2,3,4,7,8-HxCDD	34.83	3.247e1	3.831e1	0.89	YES	0.033515	0.00000
5	1,2,3,8,7,8-HxCDD	34.93	1.202e2	1.388e2	0.86	YES	0.11982	0.00000
6	Total Hexa-Dioxins	35.13	5.750e1	4.797e1	1.20	NO	0.062082	0.062082



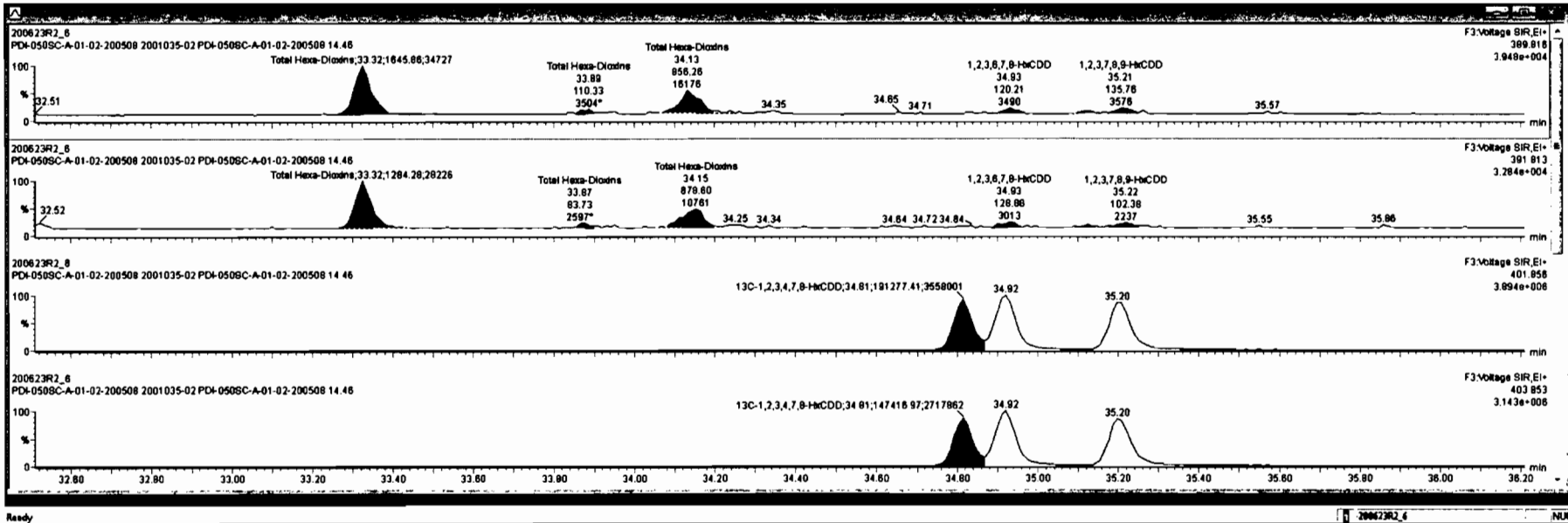
Sl#	Name	RT	RT Resp	PA	inj	RF	Wt%	PrctRT	RT	RF	S Conc.	%Rec	DL	BSPC
36	Total Tetra-Dioxins	0.8883	9.999	24.82							0.260		0.0995	0.260
40	Total Penta-Dioxins	0.9081	9.999	29.96							0.0449		0.0371	0.521
42	Total Hepta-Dioxins	0.9839	9.999	37.84							6.95		0.208	6.95
43	Total Tetra-Furans	0.7510	9.999	23.81							0.000		0.0358	0.249
44	1st Func. Penta-Furans	0.8925	9.999	27.58							0.338		0.0261	0.338
45	Total Penta-Furans	0.8925	9.999	29.27							0.0290			
46	Total Hexa-Furans	0.9341	9.999	33.56							0.276		0.0867	0.498
47	Total Hepta-Furans	0.9734	9.999	37.83							1.57		0.115	1.57
48	PFK1													

Sl#	Name	RT	RT Resp	PA	inj	BSPC	Conc.
1	Total Hexa-Dioxins	33.32	1.846e3	1.284e3	1.28	NO	1.7250
2	Total Hexa-Dioxins	33.89	1.140e2	7.842e1	1.48	YES	0.10341
3	Total Hexa-Dioxins	34.13	8.563e2	8.786e2	1.26	NO	0.90358
4	1,2,3,6,7,8-HxCDD	34.93	1.202e2	1.289e2	0.93	YES	0.11592



RT	Area	Height	Width	Area%	Height%	Width%
33.32	1645.86	34727				
34.13	856.26	16176				
34.93	34.93	35.21				
35.21	35.21	35.78				
35.78	35.78	35.78				

RT	Area	Height	Width	Area%	Height%	Width%
33.32	1.645e3	1.284e3	1.26	NO	1.7250	1.7250
34.13	8.563e2	6.786e2	1.26	NO	0.90368	0.90368
34.93	1.202e2	1.289e2	0.93	YES	0.11982	0.00000



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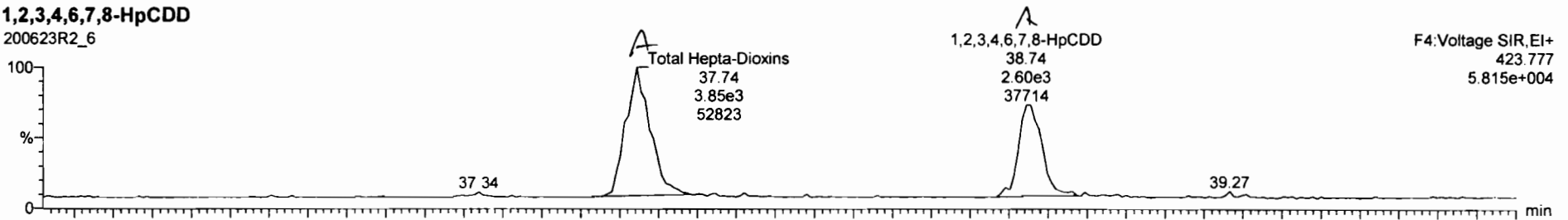
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

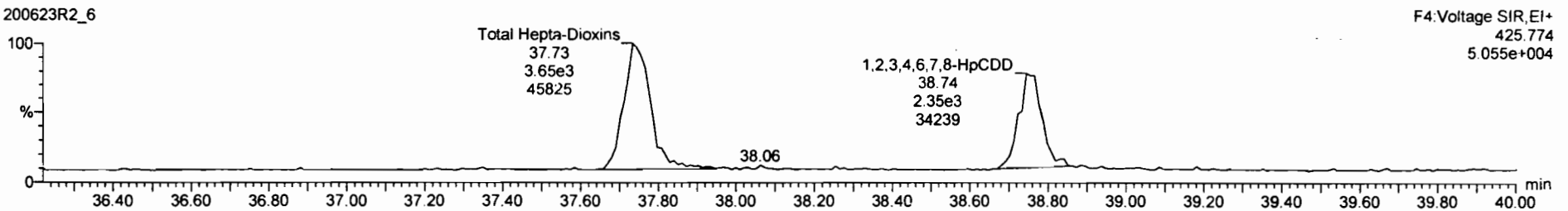
Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

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

200623R2_6

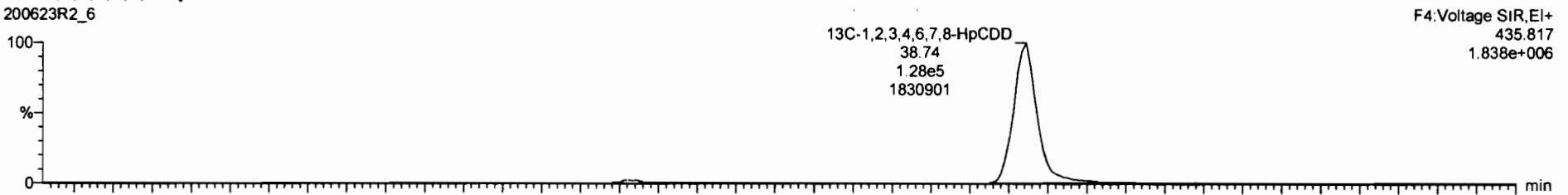


200623R2_6

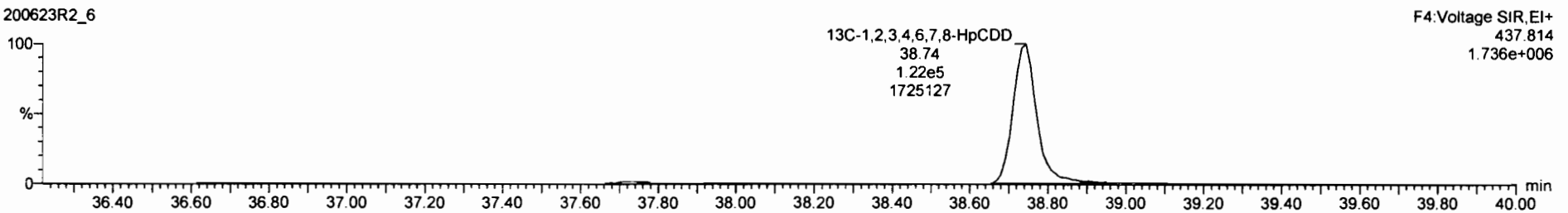


13C-1,2,3,4,6,7,8-HpCDD

200623R2_6

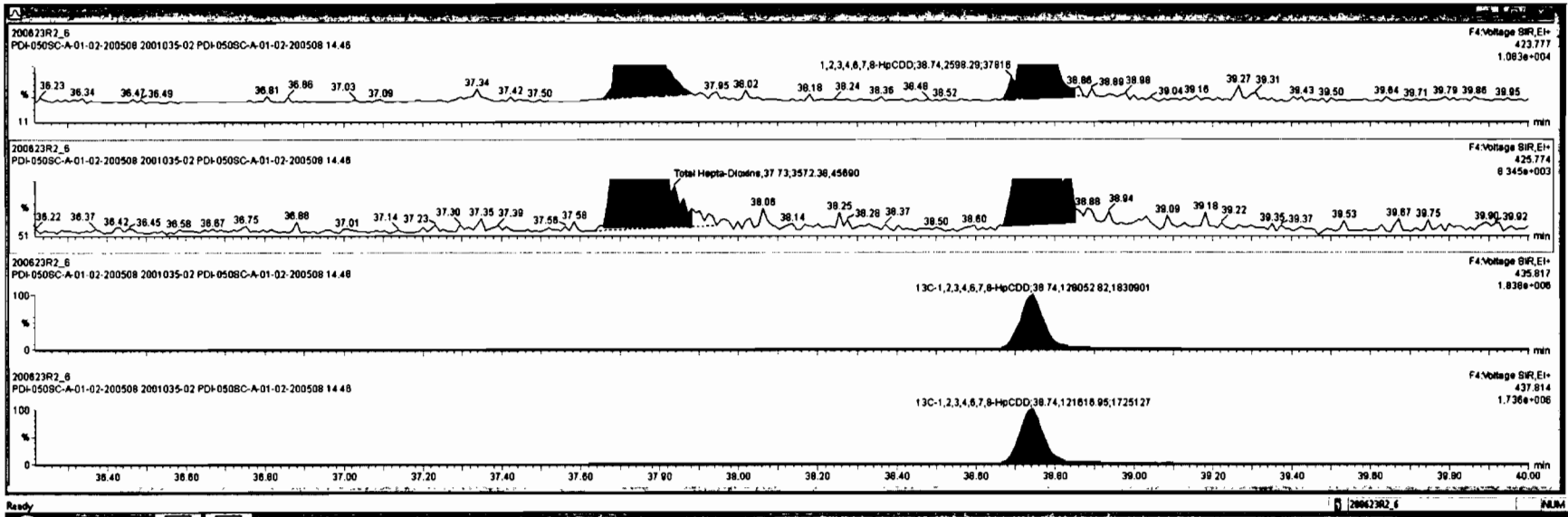


200623R2_6



Name	Resp	RA	dy	FW	valAval	PresPC	RT	FWY	Umar	WRes	DL	StuPC
38 Total Tetra-Chlorine				0.8963	9.988	24.82		0.280		0.0995	0.280	
48 Total Penta-Chlorine				0.9081	9.988	28.98		0.0448		0.0371	0.521	
41 Total Hexa-Chlorine				0.8923	9.988	33.83		2.95		0.173	3.00	
43 Total Hepta-Chlorine				0.8987	9.988	37.29				0.173	3.00	
43 Total Tetra-Furans				0.7510	9.988	23.81		0.000		0.0368	0.240	
44 1,4,5-Furans, Penta-Furans				0.8825	9.988	27.58		0.308		0.0281	0.338	
45 Total Penta-Furans				0.8825	9.988	29.27				0.0290		
46 Total Hexa-Furans				0.9341	9.988	33.95		0.276		0.0887	0.498	
47 Total Hepta-Furans				0.8734	9.988	37.83		1.97		0.115	1.57	
48 PFK1												

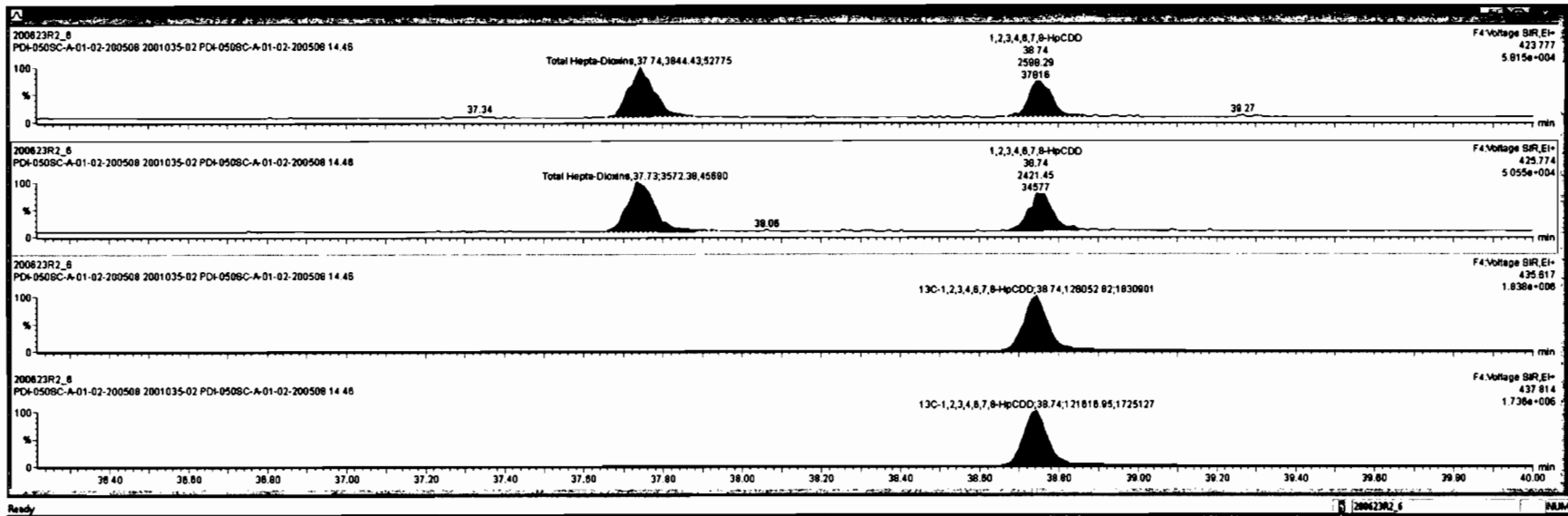
Name	RT	nd Resp	nd Resp	RA	dy	StuPC	Cont.
1 Total Hepta-Chlorine	37.74	3.915e3	3.572e3	1.10	NO	8.9438	8.9438
2 1,2,3,4,6,7,8-HpCDD	38.74	2.598e3	2.421e3	1.07	NO	4.8651	4.8651





RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
37.74	38444	4352775	1.08	NO	8.8780	8.8780						
38.74	25983	242163	1.07	NO	4.8651	4.8651						

Name	RT	nd Stage	nd Stage	SA	dy	EMPC	Cons.
Total Hepta-Chlorine	37.74	3.844e3	3.572e3	1.08	NO	8.8780	8.8780
1,2,3,4,6,7,8-HpCDD	38.74	2.598e3	2.421e3	1.07	NO	4.8651	4.8651

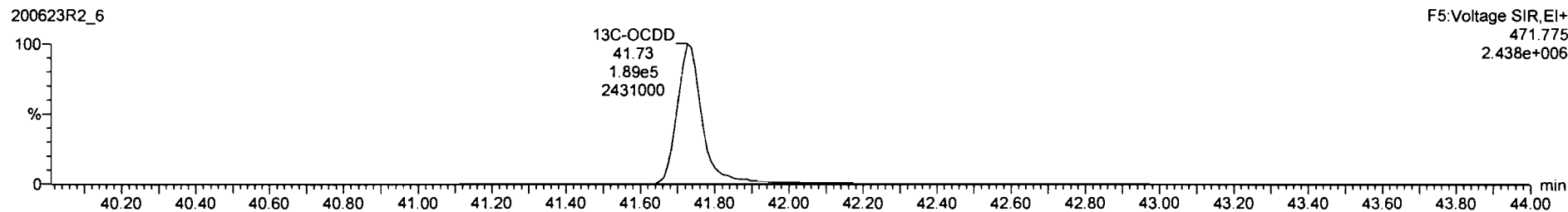
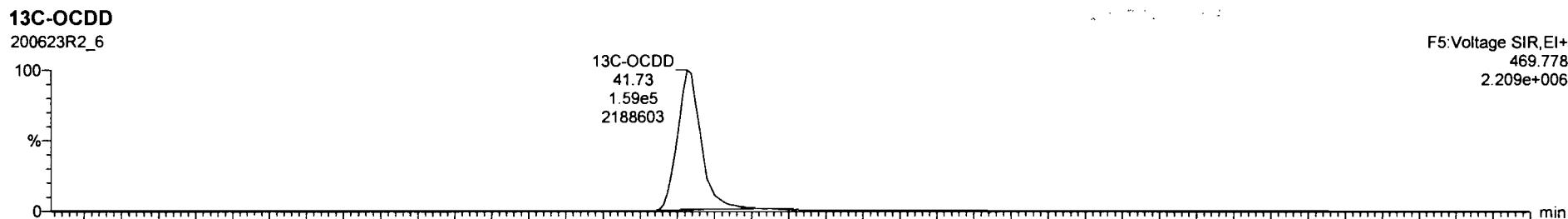
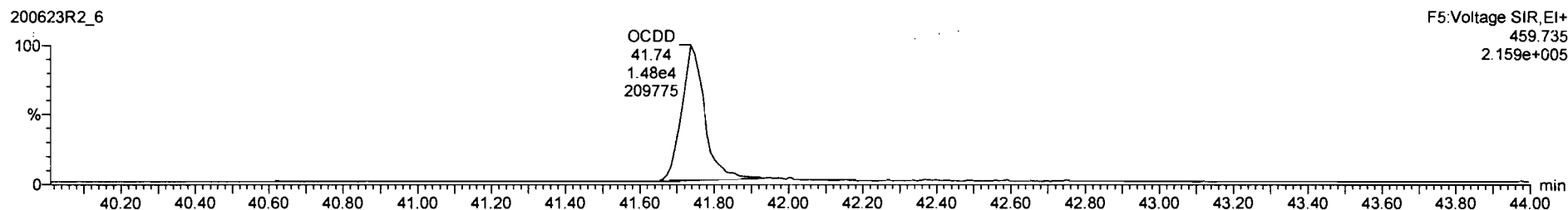
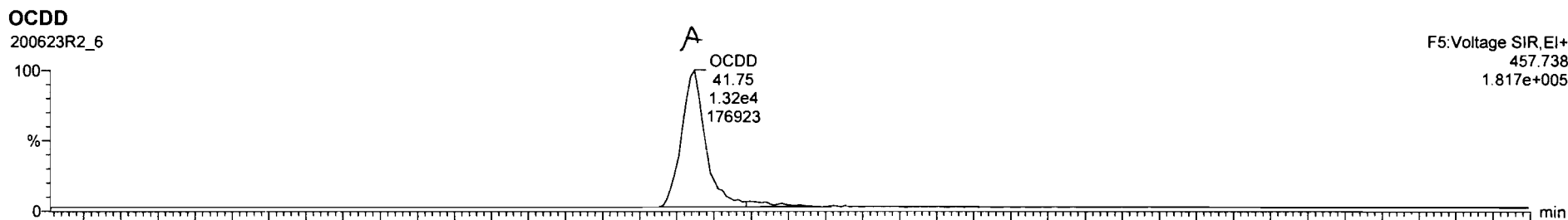


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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

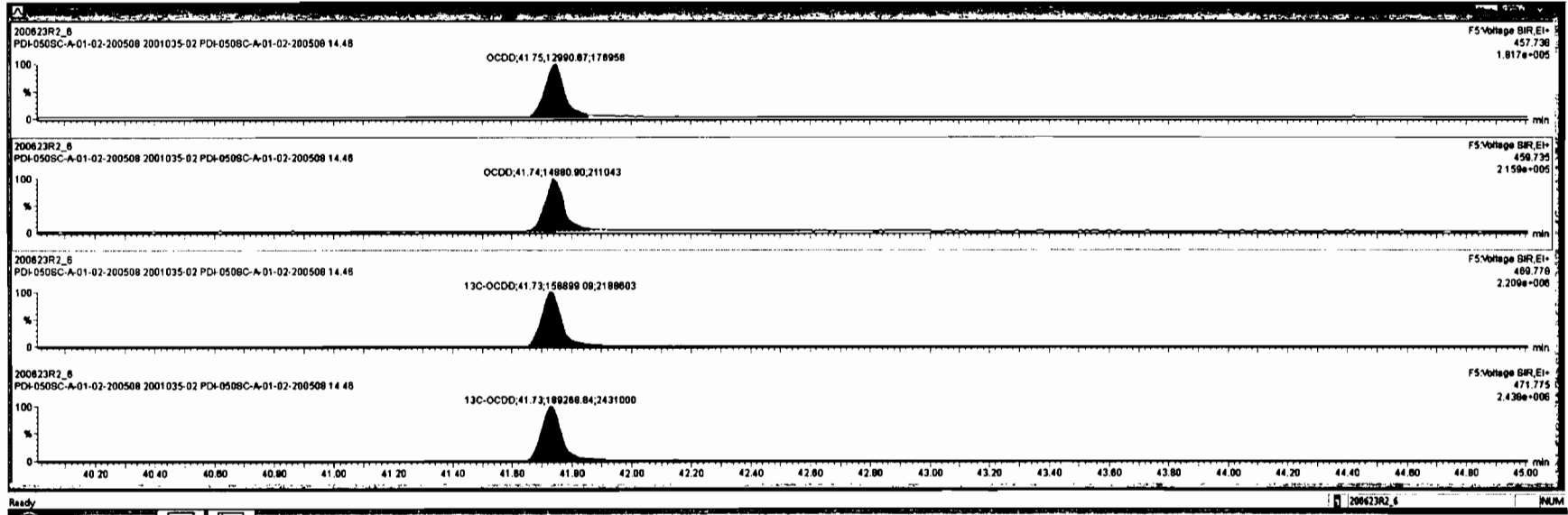
Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508



File Edit View Display Processing Window Help

#	Name	Ret	end Ret	mid Ret	Area	Height	FWHM	Height	Area	Height	Area	Height	Area	Height
1	2,3,7,8-TCDD				0.8081	0.999	31.46							
2	1,2,3,7,8-PeCDD				1.0334	0.999	34.83						0.0999	
3	1,2,3,4,7,8-HxCDD	2.49e2	0.89	YES	0.8623	0.999	34.82	34.82	1.000	0.132			0.180	0.118
4	1,2,3,7,8,9-HxCDD	2.38e2	1.33	NO	0.8699	0.999	35.21	35.21	1.000	0.140			0.187	0.140
5	1,2,3,4,6,7,8-HxCDD	5.02e3	1.07	NO	0.8638	0.999	36.78	36.74	1.000	4.86			0.208	4.68
6	OCDD	2.79e4	0.87	NO	0.9136	0.999	41.73	41.75	1.001	35.1			0.181	35.1
7	2,3,7,8-TCDF				0.7510	0.999	25.80						0.0741	
8	1,2,3,7,8-PeCDF				0.8825	0.999	30.18						0.0632	
9	2,3,4,7,8-PeCDF				0.9348	0.999	31.18						0.0601	

#	Name	RT	end Ret	mid Ret	Area	Height	FWHM	Area
1								

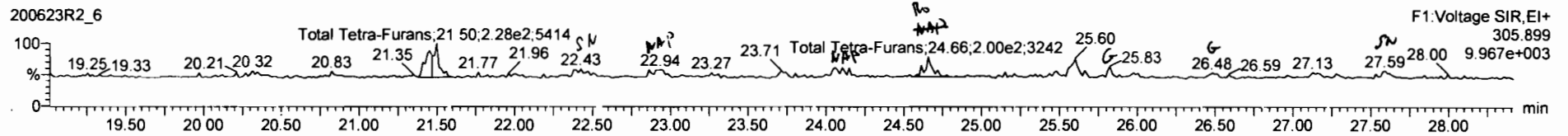
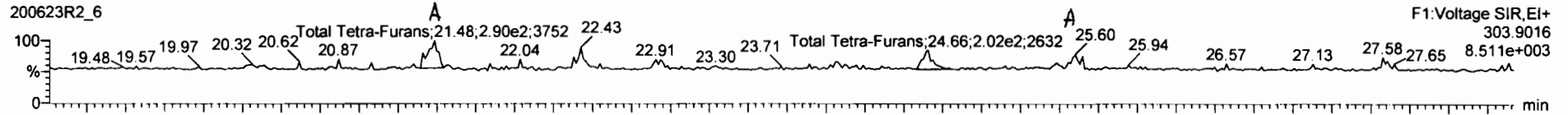


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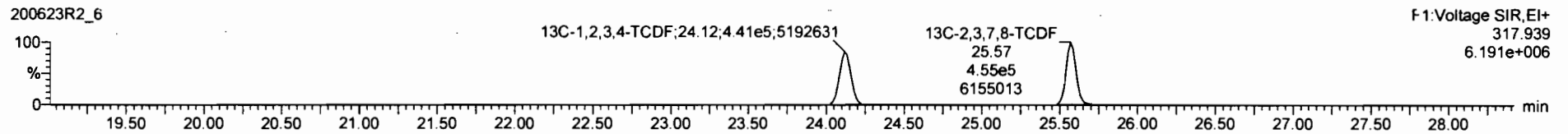
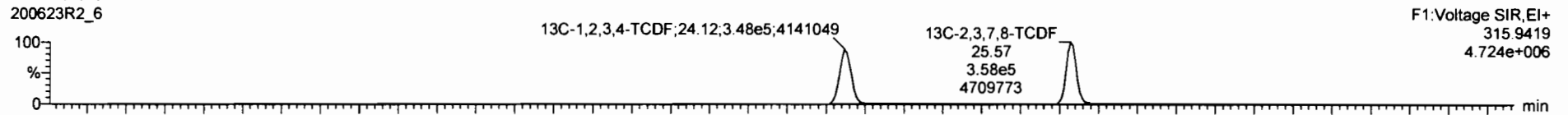
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508
4/10/6/24/2020

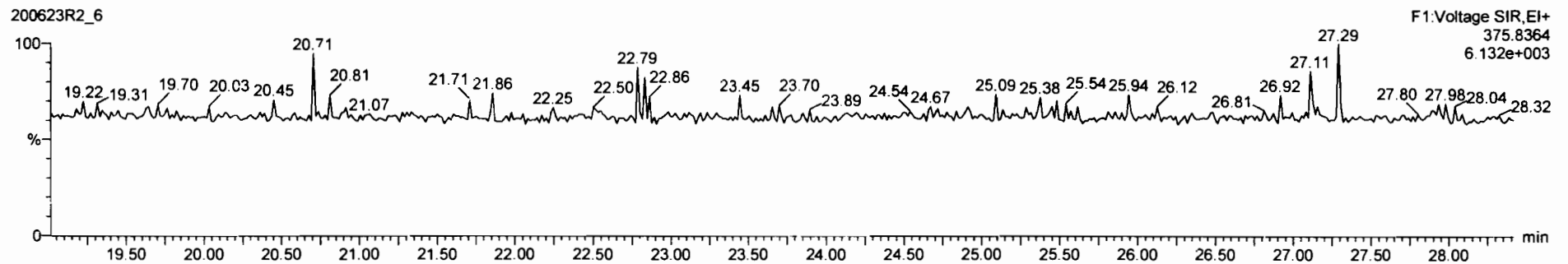
2,3,7,8-TCDF



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

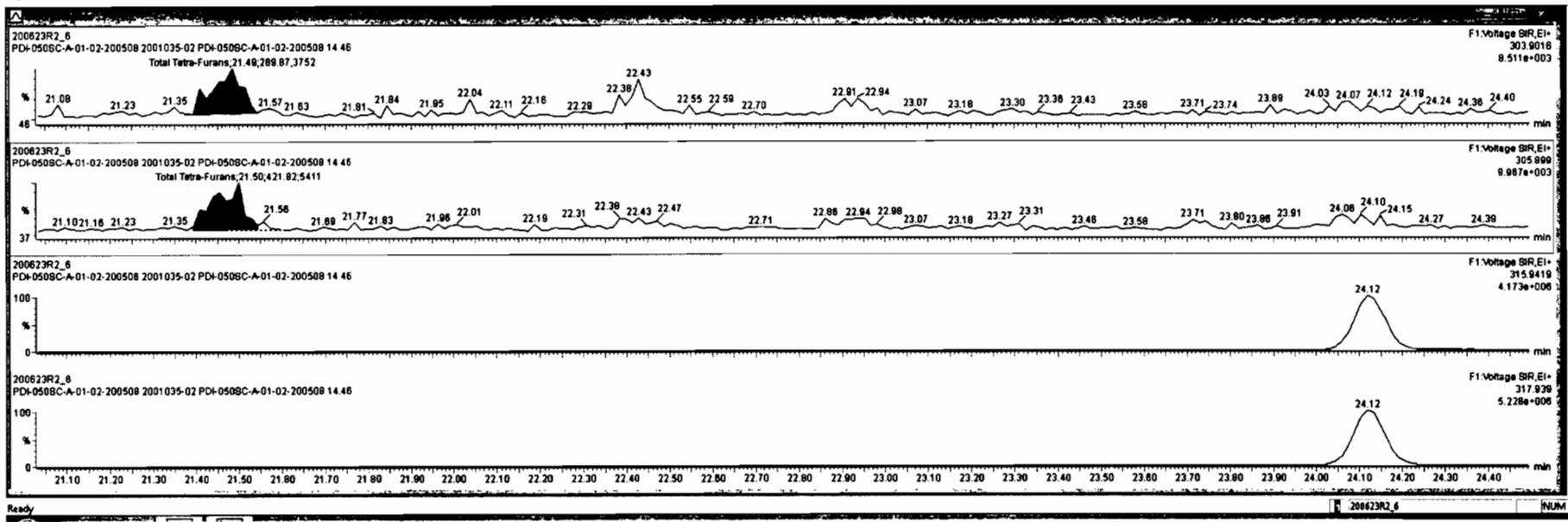


DPE1



Item	Name	Range	Unit	Qty	RFI	Added	Final	RT	SPC	Spec	%Rec	DL	SLPC
44	1st Func. Penta-Furans				0.0625	0.989	27.58			0.338		0.0281	0.338
46	Total Penta-Furans				0.0625	0.989	28.27					0.0290	
48	Total Hexa-Furans				0.9341	0.989	33.58			0.278		0.0687	0.498
47	Total Hepta-Furans				0.8734	0.989	37.83			1.57		0.115	1.57
48	PFK1												
48	PFK2												
48	PFK3												
48	PFK4												
48	PFK5												

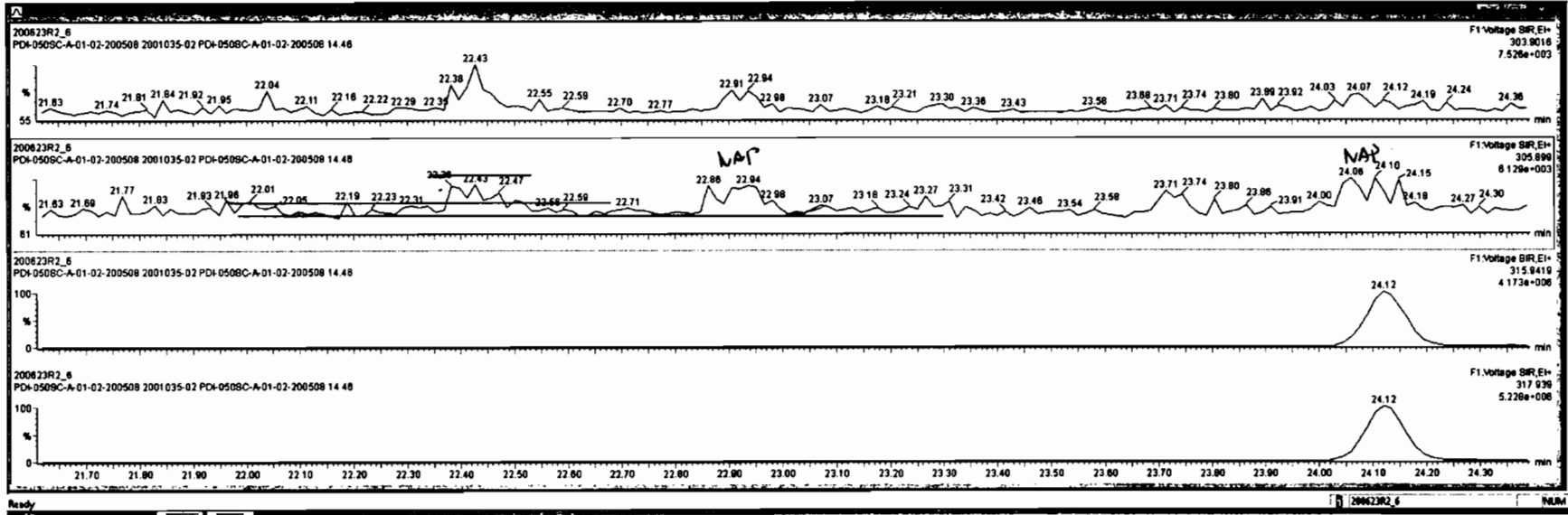
Item	Name	RT	std Range	std Range	RA	spy	SLPC	Comp.
1	Total Tetra-Furans	21.49	2.899e2	4.216e2	0.89	NO	0.23312	0.00000
2	Total Tetra-Furans	24.86	2.016e2	2.004e2	1.01	YES	0.11821	0.00000
3	2,3,7,8-TCDF	25.60	1.024e2	1.514e2	0.88	NO	0.08335	0.08335

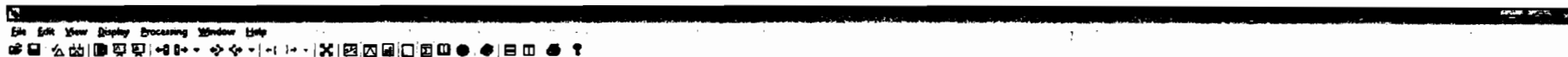


File Edit View Display Processing Window Help

RT	Name	Area	Height	Width	Area%	Height%	Width%
27.58	Total Para-Furane	0.8625	0.890	27.58	0.330	0.0261	0.330
28.27	Total Para-Furane	0.8625	0.890	28.27	0.0290		
33.56	Total Hexa-Furane	0.8241	0.890	33.56	0.276	0.0967	0.498
37.63	Total Hepta-Furane	0.8734	0.890	37.63	1.57	0.115	1.57
	PFK1						
	PFK2						
	PFK3						
	PFK4						
	PFK5						

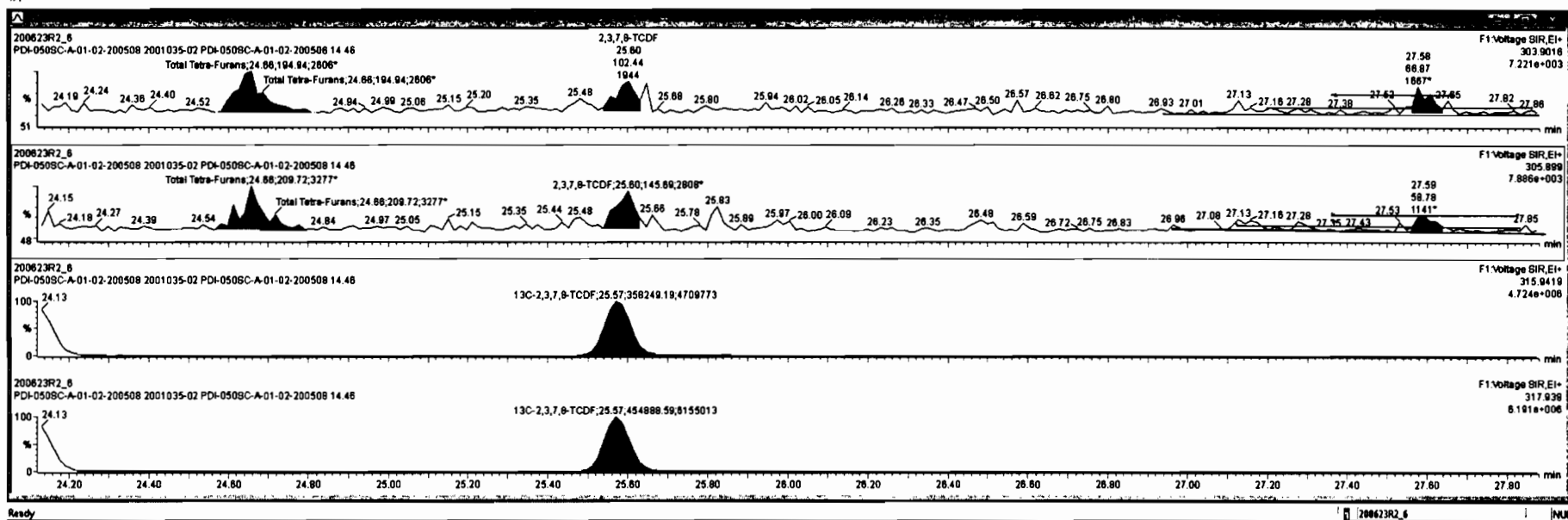
Name	RT	int Resp	ext Resp	RA	obj	IMP	Comp
Total Tetra-Furane	21.49	2.906e2	4.218e2	0.69	NO	0.23312	0.00000
Total Tetra-Furane	24.86	2.016e2	2.004e2	1.01	YES	0.11821	0.00000
2,3,7,8-TCDF	25.80	1.426e2	1.487e2	0.95	YES	0.086773	0.00000





Area	Sample	Peak	Height	Area	Height	Area	Height	Area	Height	
46	1st Func. Penta-Furans			0.8825	9.999	27.58		0.338	0.0281	0.338
47	Total Penta-Furans			0.8825	9.999	28.27			0.0290	
48	Total Hexa-Furans			0.9341	9.999	33.56		0.278	0.0887	0.486
49	Total Hepta-Furans			0.8734	9.999	37.83		1.57	0.115	1.57
50	PK1									
51	PK2									
52	PK3									
53	PK4									
54	PK5									

Area	RT	Int. Resp.	Ext. Resp.	PA	Int.	Ext.	Comp.
1	21.49	2.899e2	4.219e2	0.88	NO	0.23912	0.00000
2	24.88	2.015e2	2.004e2	1.01	YES	0.11621	0.00000
3	25.80	1.024e2	1.514e2	0.88	NO	0.083135	0.083135



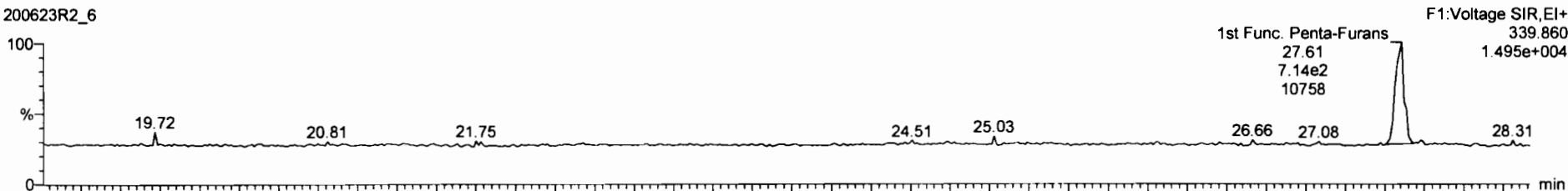
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

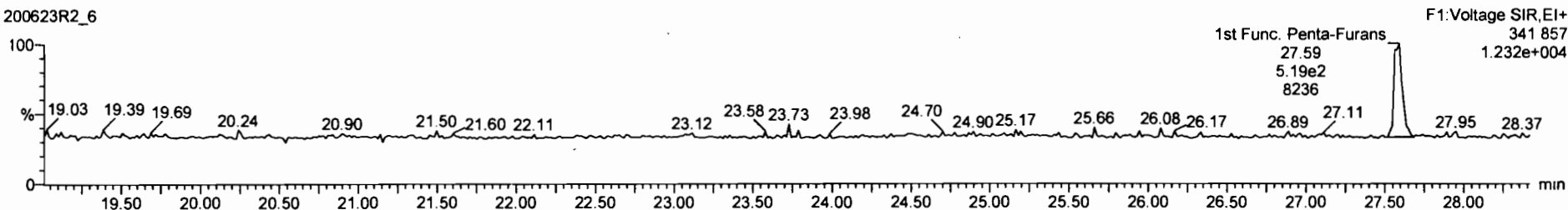
Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

1st Func. Penta-Furans

200623R2_6

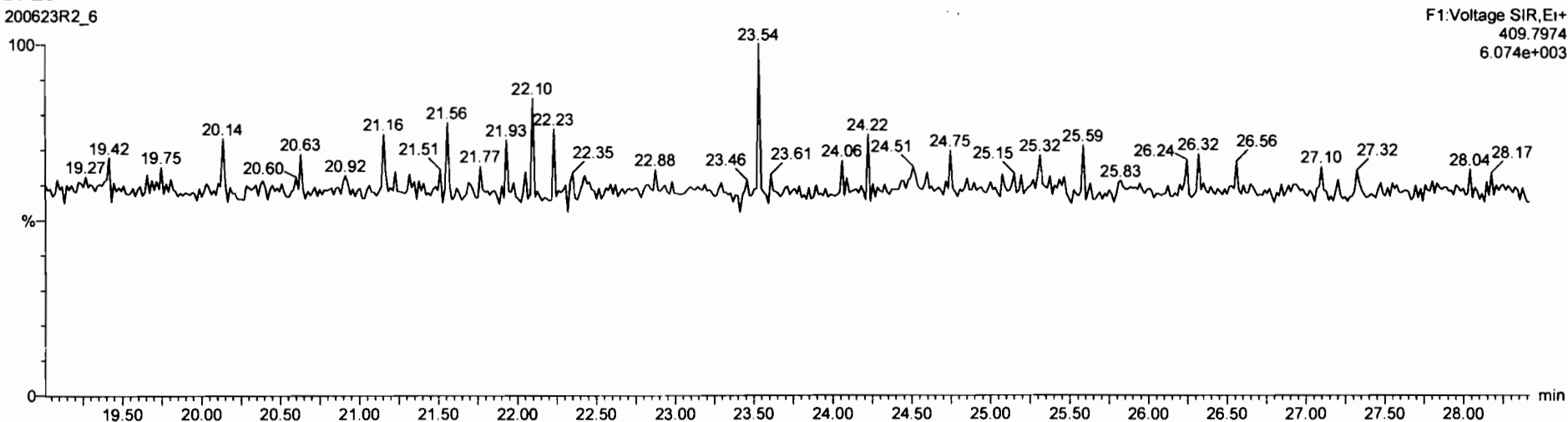


200623R2_6



DPE6

200623R2_6

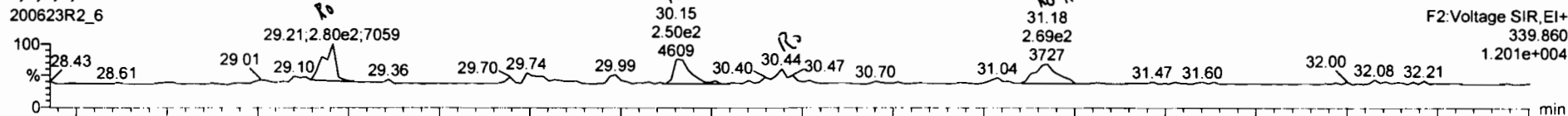


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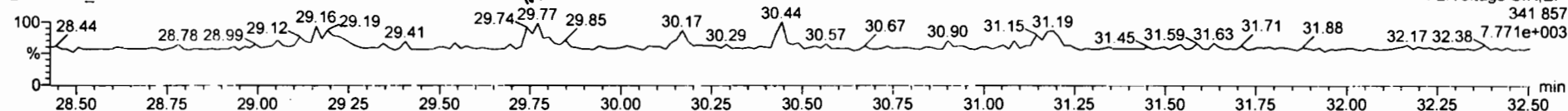
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Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

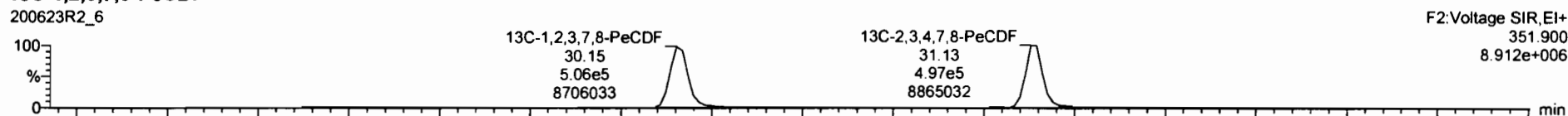
1,2,3,7,8-PeCDF



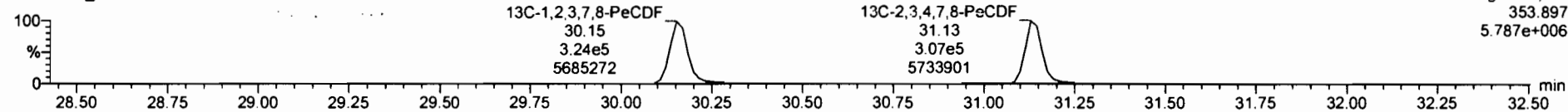
200623R2_6



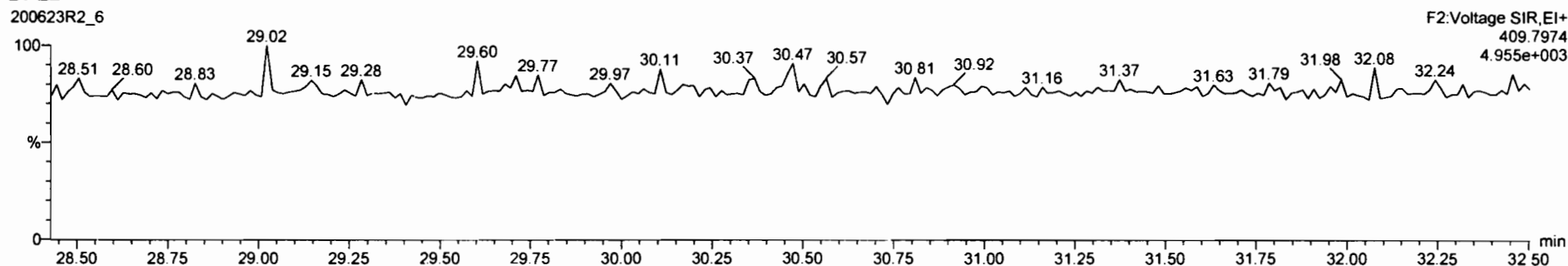
13C-1,2,3,7,8-PeCDF



200623R2_6

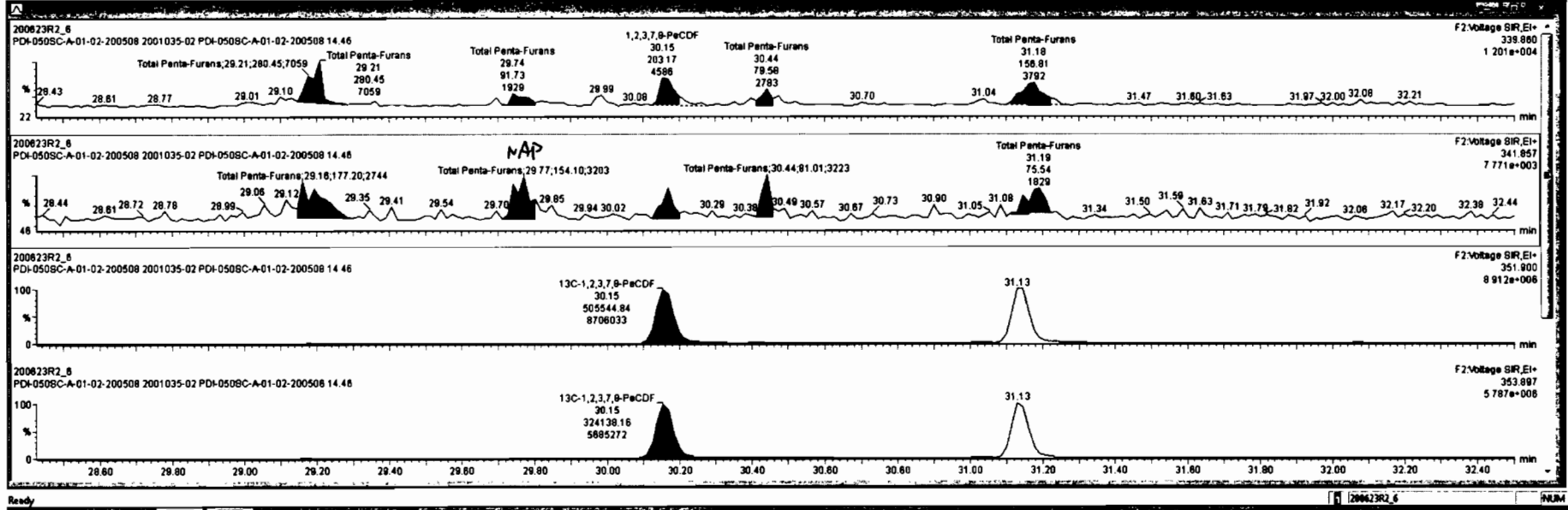


DPE2



Peak	Name	RT	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
25	13C-OCDF	3.4865	0.84	NO	0.8521	9.989	41.75	41.73	1.215	221	55.2	0.477						
26	13C-2,3,7,8-TCDF	8.1365	0.79	NO	1.0590	9.989	25.53	25.57	0.991	195	97.3	0.478						
27	13C-1,2,3,4,7,8-PeCDF	8.3065	1.56	NO	0.8380	9.989	30.06	30.15	1.168	251	125	0.843						
28	13C-2,3,4,7,8-PeCDF	8.0465	1.82	NO	0.8168	9.989	31.01	31.13	1.206	250	125	0.865						
29	13C-1,2,3,4,7,8-HxCDF	4.5065	0.51	NO	1.0075	9.989	33.95	33.94	0.989	185	92.3	0.825						
30	13C-1,2,3,4,7,8-HxCDF	5.1165	0.52	NO	1.1670	9.989	34.07	34.08	0.982	181	90.4	0.540						
31	13C-2,3,4,6,7,8-HxCDF	4.5565	0.49	NO	1.0219	9.989	34.85	34.85	1.009	184	92.1	0.817						
32	13C-1,2,3,7,8-HxCDF	3.8065	0.49	NO	0.8595	9.989	35.55	35.58	1.036	177	88.6	0.733						
33	13C-1,2,3,4,6,7,8-HpCDF	2.9865	0.43	NO	0.7745	9.989	37.29	37.34	1.087	159	78.5	0.545						
34	13C-1,2,3,4,7,8-HpCDF	1.7865	0.43	NO	0.5210	9.989	38.32	38.28	1.144	140	70.0	0.810						

Peak	Name	RT	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	Total Penta-Furans	29.21	2804e2	1.772e2	1.59	NO	0.12553	0.12553										
2	Total Penta-Furans	29.74	8.173e1	1.541e2	0.80	YES	0.041397	0.00000										
3	1,2,3,7,8-PeCDF	30.15	2.032e2	8.517e1	2.38	YES	0.059862	0.00000										
4	Total Penta-Furans	30.44	7.959e1	8.101e1	0.88	YES	0.025914	0.00000										
5	1,2,3,4,7,8-PeCDF	31.18	8.075e1	3.799e1	2.81	YES	0.021814	0.00000										

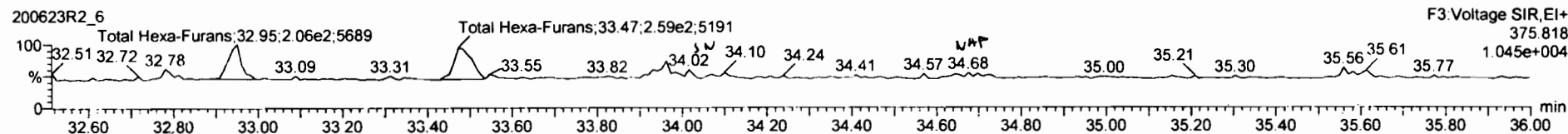
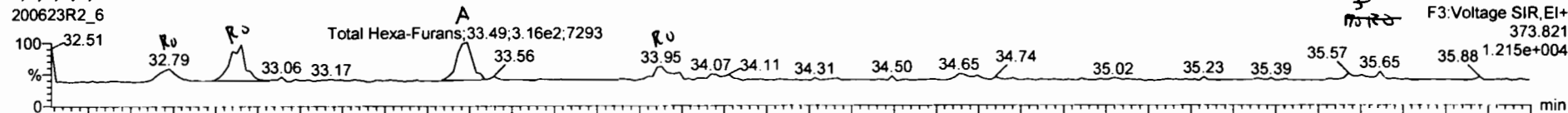


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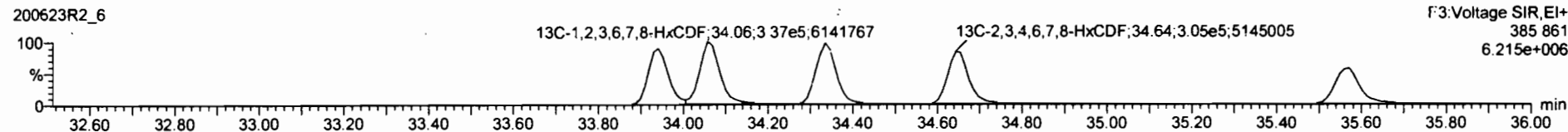
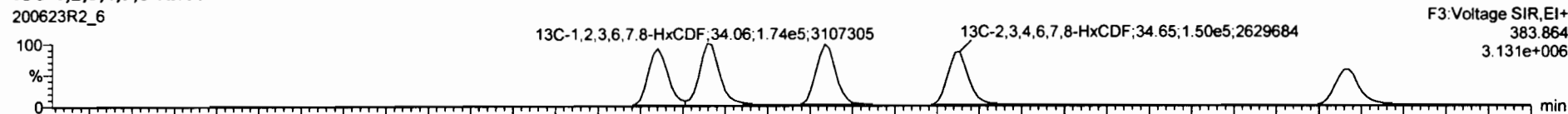
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

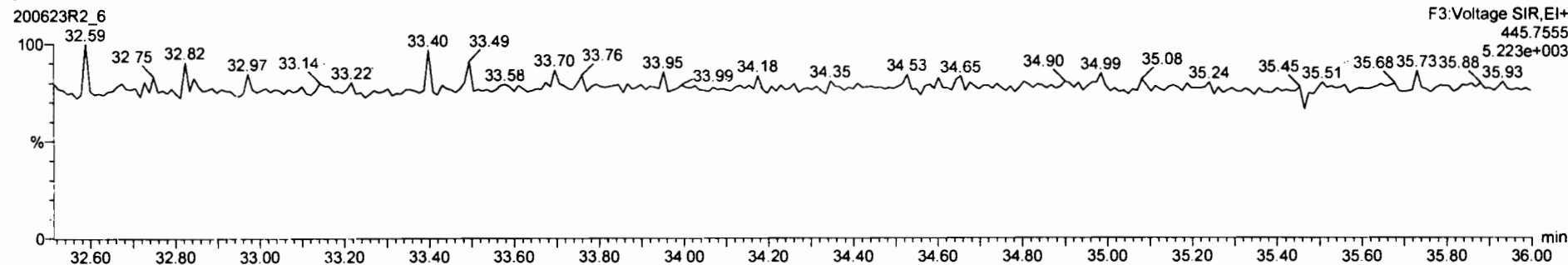
1,2,3,4,7,8-HxCDF



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

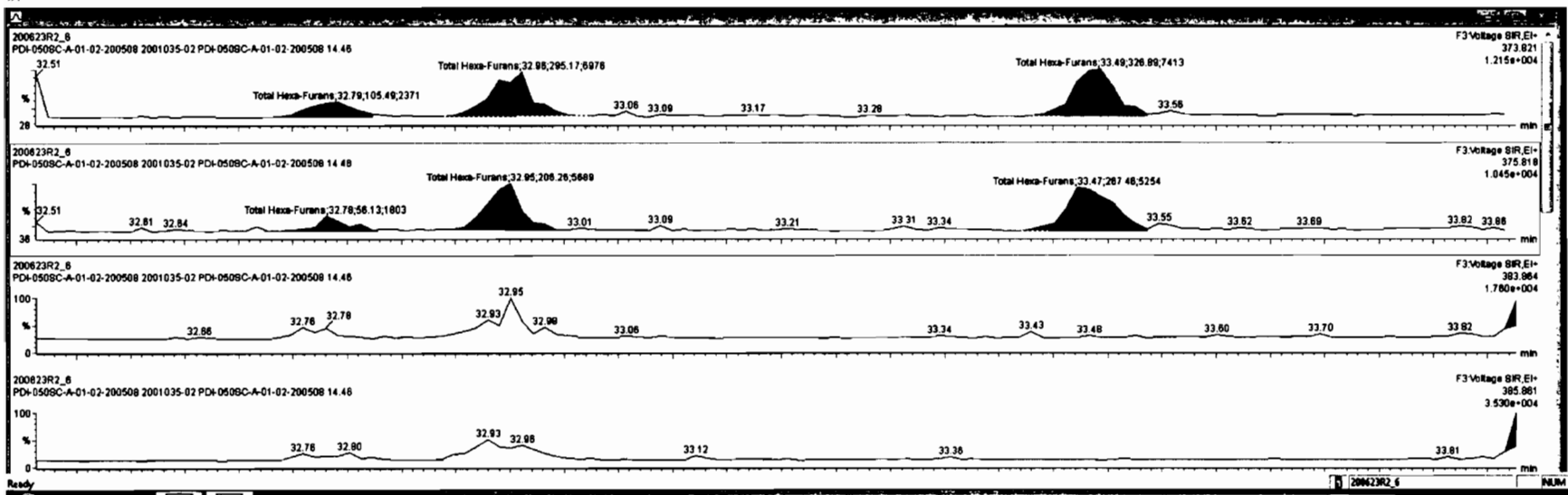


DPE3



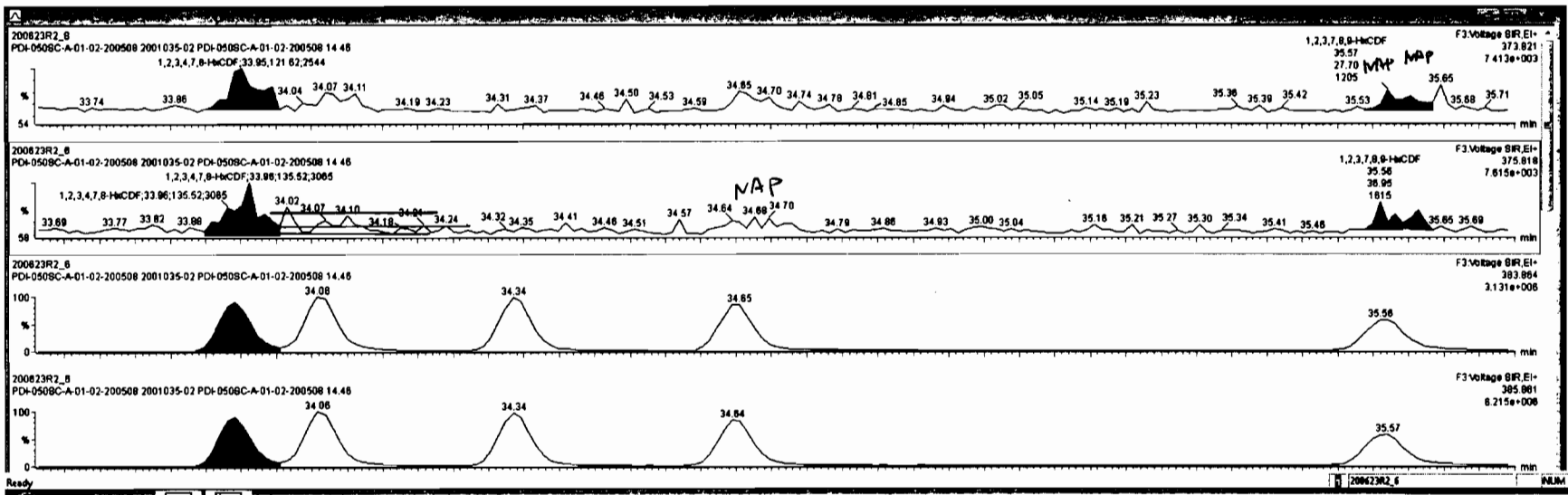
Area	Area%	Area%	Area%	Area%	Area%	Area%	Area%
47	Total Hexa-Furans		0.8734	9.998	37.83		0.852
48	PFK1						
49	PFK2						
50	PFK3						
51	PFK4						
52	PFK5						
53	DPE1						
54	DPE2						
55	DPE3						

Area	Area%	Area%	Area%	Area%	Area%	Area%	Area%
1	Total Hexa-Furans	32.78	1.056e2	5.813e1	1.80	YES	0.082345
2	Total Hexa-Furans	32.98	2.902e2	2.083e2	1.43	YES	0.22174
3	Total Hexa-Furans	33.48	3.288e2	2.875e2	1.22	NO	0.28525
4	1,2,3,4,7,8-HxCDF	33.95	1.218e2	1.355e2	0.80	YES	0.91042
5	1,2,3,7,8-HxCDF	35.57	2.770e1	3.885e1	0.75	YES	0.031188
6	Total Hexa-Furans	35.80	2.584e1	2.824e1	0.88	YES	0.022233



RT	Area	Height	Width	Area%	Height%	Width%
32.79	1.055e2	5.813e1	1.89	YES	0.080345	0.00000
32.95	2.952e2	2.063e2	1.43	YES	0.22174	0.00000
33.40	3.269e2	2.675e2	1.22	NO	0.26525	0.26525
33.95	1.219e2	1.355e2	0.90	YES	0.11042	0.00000
35.57	2.770e1	3.985e1	0.75	YES	0.02199	0.00000
35.80	2.584e1	2.824e1	0.98	YES	0.02223	0.00000

Name	RT	Area	Height	Area%	Height%	Width%	Area%	Height%	Width%
1 Total Hexa-Furane	32.79	1.055e2	5.813e1	1.89	YES	0.080345	0.00000		
2 Total Hexa-Furane	32.95	2.952e2	2.063e2	1.43	YES	0.22174	0.00000		
3 Total Hexa-Furane	33.40	3.269e2	2.675e2	1.22	NO	0.26525	0.26525		
4 1,2,3,4,7,8-HxCDF	33.95	1.219e2	1.355e2	0.90	YES	0.11042	0.00000		
5 1,2,3,7,8-HxCDF	35.57	2.770e1	3.985e1	0.75	YES	0.02199	0.00000		
6 Total Hexa-Furane	35.80	2.584e1	2.824e1	0.98	YES	0.02223	0.00000		

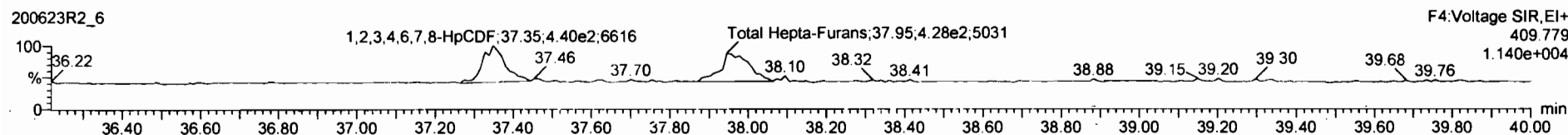
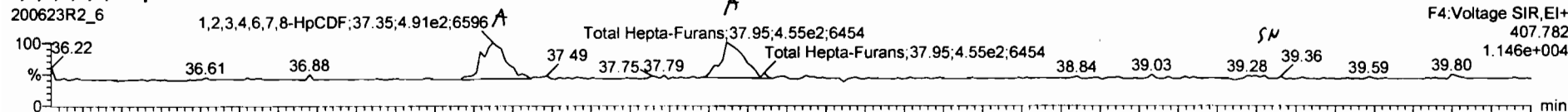


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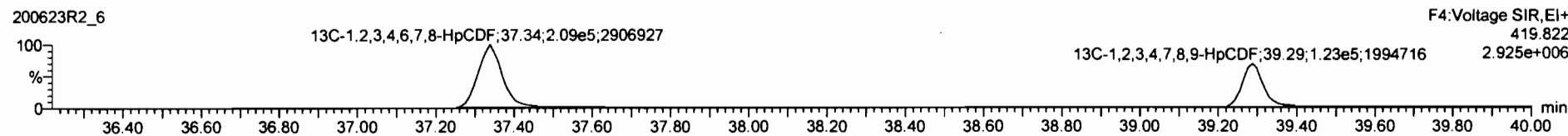
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508

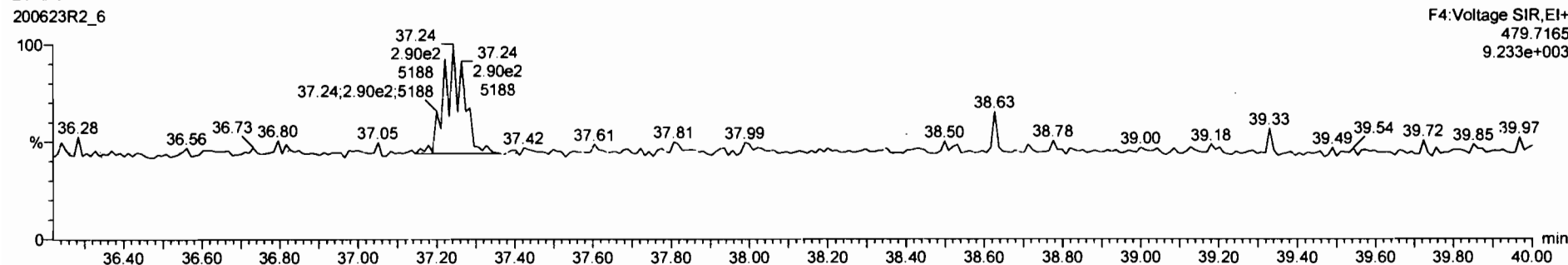
1,2,3,4,6,7,8-HpCDF



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

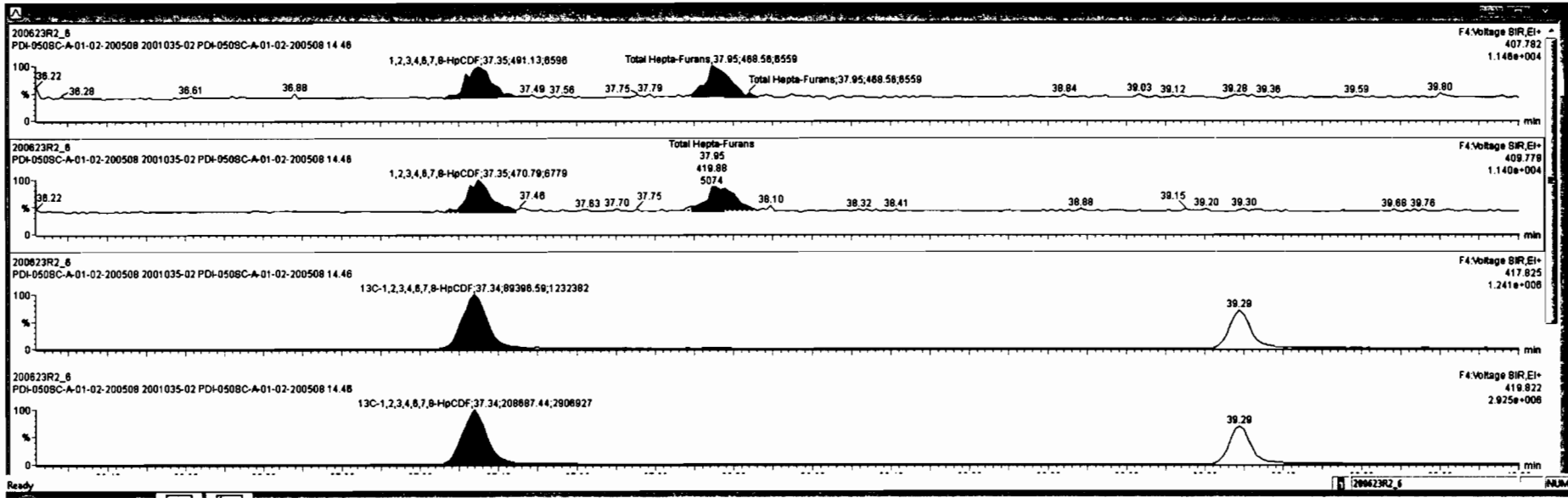


DPE4



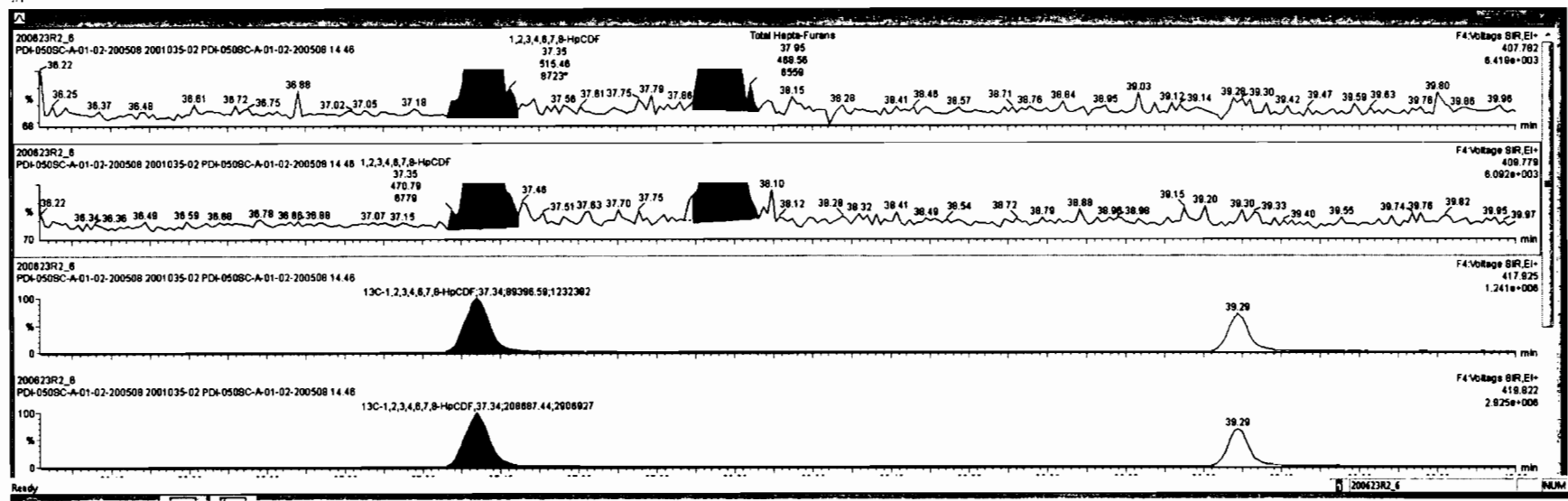
Peak	Name	Area	Height	W	Ret	Int	Area%	Height%	Area%	Height%
30	Total Tetra-Dioxins	0.8853	9.999	24.82			0.258		0.0895	0.258
40	Total Penta-Dioxins	0.9081	9.999	29.96			0.0451		0.0899	0.418
48	Total Hexa-Dioxins	0.8823	9.999	33.83			2.78		0.173	2.89
42	Total Hepta-Dioxins	0.8838	9.999	37.84			11.8		0.208	11.8
42	Total Tetra-Furans	0.7510	9.999	23.81			0.0828		0.0741	0.408
44	1st Func. Penta-Furans	0.8825	9.999	27.58			0.338		0.0281	0.338
46	Total Penta-Furans	0.8825	9.999	29.27			0.0888		0.0290	0.280
48	Total Hexa-Furans	0.9341	9.999	33.58			0.278		0.0887	0.851

Peak	Name	Area	Height	W	Ret	Int	Area%	Height%	Area%	Height%
1	1,2,3,4,6,7,8-HpCDF	37.35	4.911e2	4.700e2	1.04	NO	0.73904		0.73904	
2	Total Hepta-Furans	37.95	4.886e2	4.190e2	1.12	NO	0.85761		0.85761	



Peak	Name	Area	Height	Width	Retention	Response	Integration	Integration	Integration	Integration	Integration
1	Total Tetra-Chlorine	0.0993	0.000	24.82		0.250		0.0993		0.250	
2	Total Penta-Chlorine	0.0091	0.000	28.86		0.0451		0.0091		0.250	
3	Total Hexa-Chlorine	0.0023	0.000	33.83		2.70		0.173		2.89	
4	Total Hepta-Chlorine	0.0030	0.000	37.84		11.8		0.200		11.8	
5	Total Tetra-Furane	0.7510	0.000	23.81		0.0020		0.0741		0.400	
6	1st Func. Penta-Furane	0.0025	0.000	27.50		0.330		0.0281		0.330	
7	Total Penta-Furane	0.0025	0.000	28.27		0.0000		0.0290		0.280	
8	Total Hexa-Furane	0.0341	0.000	33.98		0.276		0.0067		0.051	

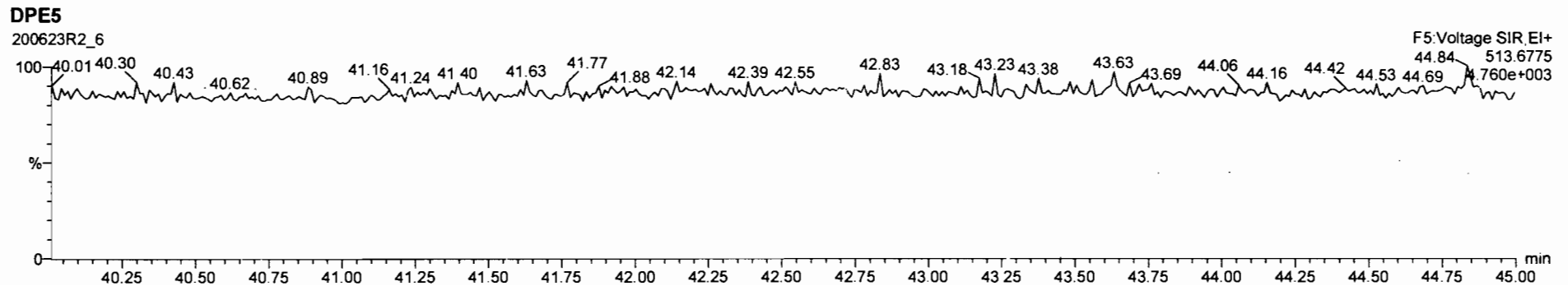
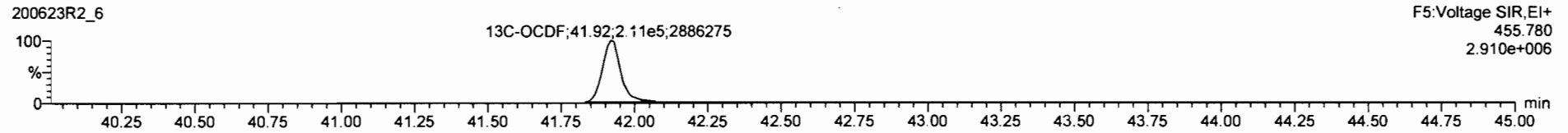
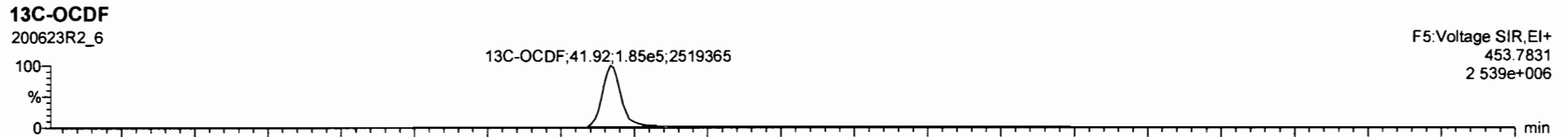
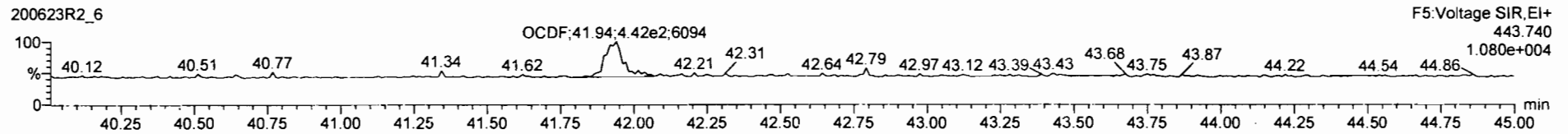
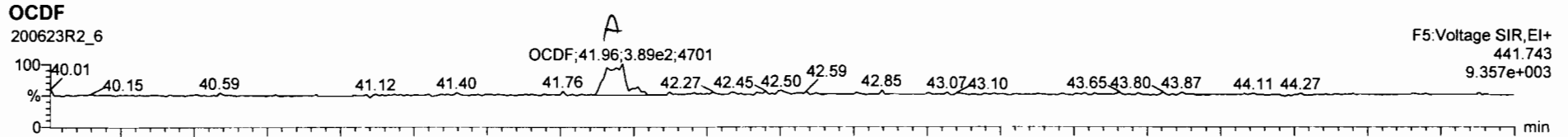
Peak	Name	Area	Height	Width	Retention	Response	Integration	Integration
6	1,2,3,4,6,7,8-HpCDF	37.35	4.911e2	4.700e2	1.04	NO	0.73804	0.73004
7	Total Hepta-Furane	37.85	4.080e2	4.100e2	1.12	NO	0.05781	0.05781



Dataset: Untitled

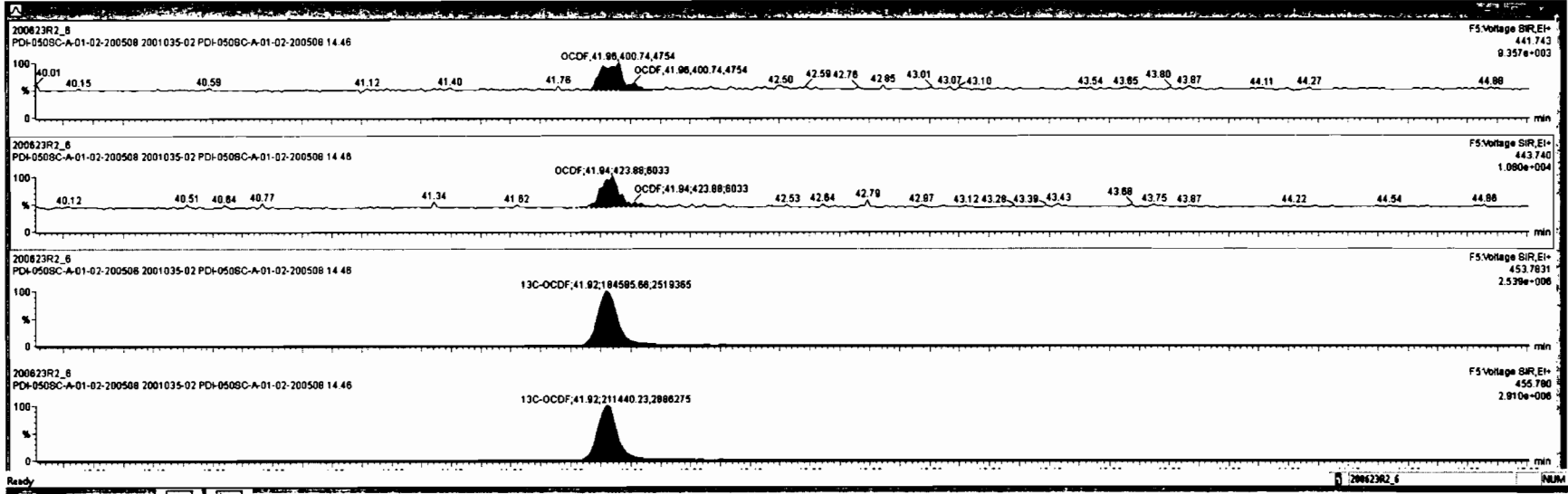
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508



RT	RT/	mi Resp	nd Resp	RA	rtly	EMPC	Cont.
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
28							

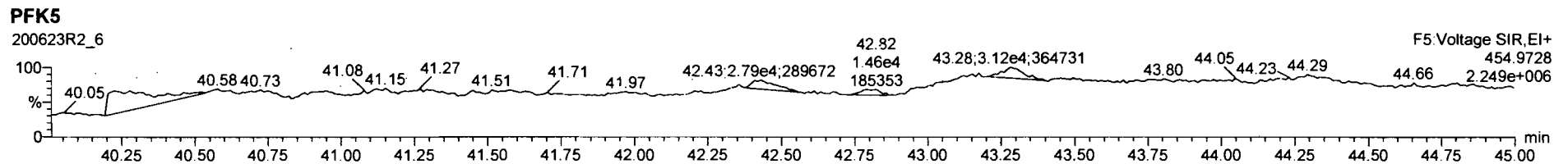
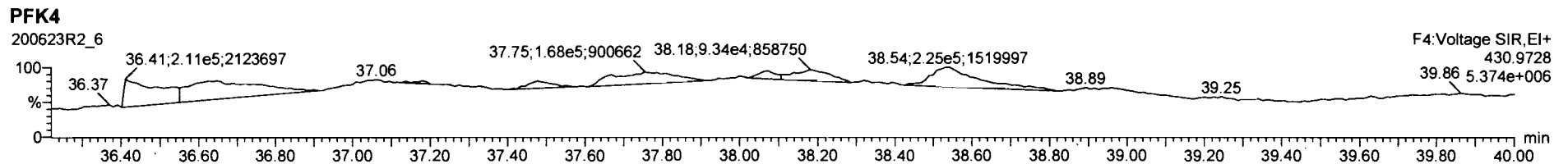
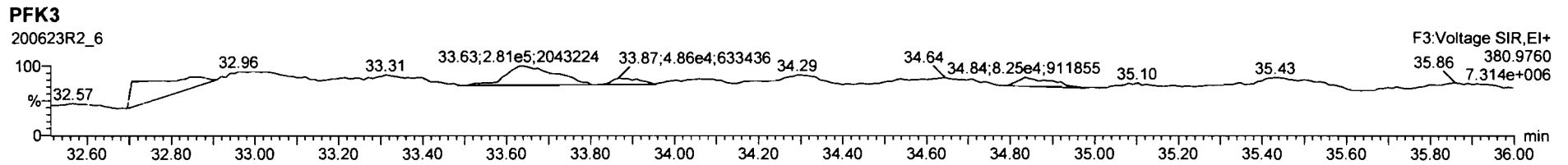
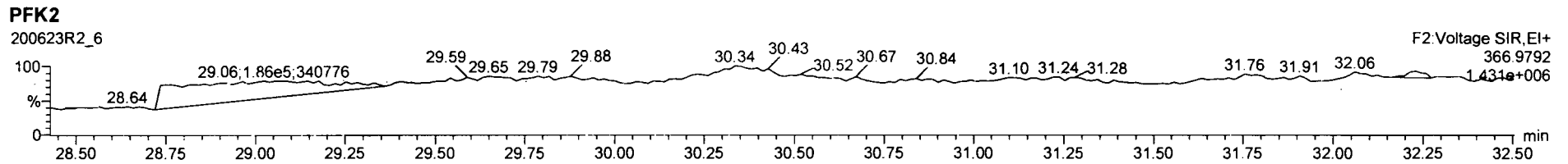
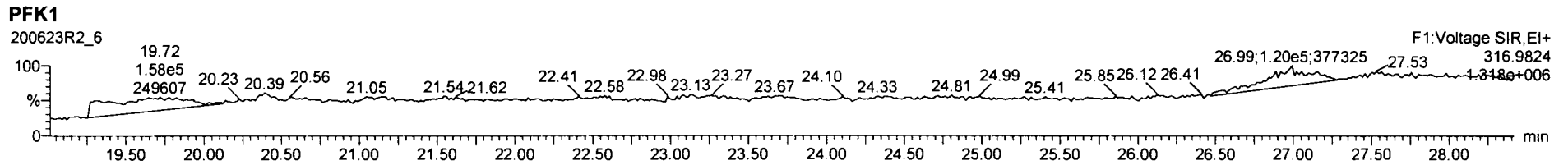
RT	RT/	mi Resp	nd Resp	RA	rtly	EMPC	Cont.



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_6, Date: 23-Jun-2020, Time: 18:56:28, ID: 2001035-02 PDI-050SC-A-01-02-200508 14.46, Description: PDI-050SC-A-01-02-200508



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-7B.qld

Last Altered: Friday, July 17, 2020 9:37:50 AM Pacific Daylight Time
Printed: Friday, July 17, 2020 9:39:03 AM Pacific Daylight Time

HN 07/17/2020

C7 07/17/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	Exp	Pred.RRT	RRR				
1	2,3,7,8-TCDD			NO	0.888	10.099	26.501		1.001					0.0767
2	1,2,3,7,8-PeCDD			NO	0.908	10.099	31.457		1.001					0.107
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.099	34.824		1.000					0.123
4	1,2,3,6,7,8-HxCDD	2.13e2	0.94	YES	0.892	10.099	34.921	34.93	1.000	1.000	0.10490		0.126	0.0919
5	1,2,3,7,8,9-HxCDD	3.82e2	1.45	YES	0.887	10.099	35.219	35.23	1.000	1.001	0.20770		0.141	0.190
6	1,2,3,4,6,7,8-HpCDD	1.75e3	1.12	NO	0.864	10.099	38.756	38.78	1.000	1.001	1.4811		0.218	1.48
7	OCDD	1.10e4	0.90	NO	0.914	10.099	41.737	41.75	1.000	1.000	12.195		0.224	12.2
8	2,3,7,8-TCDF			NO	0.751	10.099	25.596		1.001					0.0638
9	1,2,3,7,8-PeCDF			NO	0.893	10.099	30.174		1.001					0.0394
10	2,3,4,7,8-PeCDF			NO	0.935	10.099	31.161		1.001					0.0373
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.099	33.941		1.000					0.0624
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.099	34.079		1.000					0.0595
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.099	34.679		1.001					0.0673
14	1,2,3,7,8,9-HxCDF	1.26e2	0.90	YES	0.871	10.099	35.560	35.60	1.000	1.001	0.072432		0.103	0.0621
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.099	37.386		1.001					0.139
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.099	39.298		1.000					0.165
17	OCDF			NO	0.806	10.099	41.929		1.000					0.171
18	13C-2,3,7,8-TCDD	8.90e5	0.79	NO	1.16	10.099	26.491	26.47	1.026	1.026	203.52	103		0.202
19	13C-1,2,3,7,8-PeCDD	6.04e5	0.63	NO	0.849	10.099	31.674	31.43	1.227	1.218	188.02	94.9		0.313
20	13C-1,2,3,4,7,8-HxCDD	3.62e5	1.28	NO	0.779	10.099	34.819	34.81	1.014	1.014	175.68	88.7		0.427
21	13C-1,2,3,6,7,8-HxCDD	4.51e5	1.28	NO	1.02	10.099	34.932	34.92	1.017	1.017	167.87	84.8		0.327
22	13C-1,2,3,7,8,9-HxCDD	4.10e5	1.25	NO	0.903	10.099	35.204	35.21	1.025	1.025	172.08	86.9		0.368
23	13C-1,2,3,4,6,7,8-HpCDD	2.72e5	1.05	NO	0.689	10.099	38.726	38.74	1.128	1.128	149.15	75.3		0.459
24	13C-OCDD	3.92e5	0.83	NO	0.652	10.099	41.748	41.74	1.216	1.216	227.74	57.5		0.896
25	13C-2,3,7,8-TCDF	1.12e6	0.78	NO	1.06	10.099	25.534	25.57	0.989	0.991	235.18	119		0.386
26	13C-1,2,3,7,8-PeCDF	9.30e5	1.57	NO	0.838	10.099	30.058	30.15	1.165	1.168	247.60	125		0.837
27	13C-2,3,4,7,8-PeCDF	8.92e5	1.62	NO	0.817	10.099	31.011	31.13	1.202	1.206	243.92	123		0.859
28	13C-1,2,3,4,7,8-HxCDF	5.05e5	0.51	NO	1.01	10.099	33.950	33.94	0.989	0.989	189.81	95.8		0.849
29	13C-1,2,3,6,7,8-HxCDF	5.87e5	0.51	NO	1.17	10.099	34.074	34.07	0.992	0.992	190.35	96.1		0.733
30	13C-2,3,4,6,7,8-HxCDF	4.89e5	0.51	NO	1.02	10.099	34.647	34.64	1.009	1.009	181.00	91.4		0.838
31	13C-1,2,3,7,8,9-HxCDF	3.97e5	0.52	NO	0.860	10.099	35.547	35.56	1.035	1.036	174.90	88.3		0.996

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-7B.qld

Last Altered: Friday, July 17, 2020 9:37:50 AM Pacific Daylight Time

Printed: Friday, July 17, 2020 9:39:03 AM Pacific Daylight Time

Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred. RT	Pred. RRT	RRF	RRF	Area	Area	Area	Area
32	13C-1,2,3,4,6,7,8-HpCDF	3.19e5	0.42	NO	0.774	10.099	37.295	37.35	1.086	1.088	155.88	78.7	0.483	
33	13C-1,2,3,4,7,8,9-HpCDF	1.95e5	0.42	NO	0.521	10.099	39.324	39.30	1.145	1.145	141.86	71.6	0.719	
34	13C-OCDF	4.33e5	0.87	NO	0.746	10.099	41.920	41.93	1.221	1.221	219.78	55.5	0.434	
35	37Cl-2,3,7,8-TCDD	3.07e5			1.04	10.099	26.522	26.48	1.028	1.026	78.374	98.9	0.0947	
36	13C-1,2,3,4-TCDD	7.49e5	0.77	NO	1.00	10.099	25.890	25.81	1.000	1.000	198.05	100	0.234	
37	13C-1,2,3,4-TCDF	8.87e5	0.79	NO	1.00	10.099	24.360	24.12	1.000	1.000	198.05	100	0.409	
38	13C-1,2,3,4,6,9-HxCDF	5.23e5	0.50	NO	1.00	10.099	34.420	34.33	1.000	1.000	198.05	100	0.856	
39	Total Tetra-Dioxins				0.888	10.099	24.620		0.000		0.28111		0.0767	0.281
40	Total Penta-Dioxins				0.908	10.099	29.960		0.000		0.20742		0.107	0.309
41	Total Hexa-Dioxins				0.892	10.099	33.635		0.000		1.6664		0.136	1.95
42	Total Hepta-Dioxins				0.864	10.099	37.640		0.000		3.8977		0.218	3.90
43	Total Tetra-Furans				0.751	10.099	23.610		0.000		0.23662		0.0638	0.237
44	1st Func. Penta-Furans				0.893	10.099	27.580		0.000				0.0133	
45	Total Penta-Furans				0.893	10.099	29.275		0.000				0.0221	
46	Total Hexa-Furans				0.934	10.099	33.555		0.000		0.00000		0.0336	0.0621
47	Total Hepta-Furans				0.873	10.099	37.835		0.000				0.0750	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-7B.qld

Last Altered: Friday, July 17, 2020 9:37:50 AM Pacific Daylight Time

Printed: Friday, July 17, 2020 9:39:03 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	1 Resp	2 Resp	3 Resp	4 Resp
Total Tetra-Dioxins	24.28	7.659e3	8.557e3	5.067e2	6.154e2	0.82	NO	1.122e3	0.28111	0.28111	0.0767

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	1 Resp	2 Resp	3 Resp	4 Resp
Total Penta-Dioxins	29.22	2.006e3	3.039e3	1.083e2	2.076e2	0.52	YES	0.000e0	0.00000	0.10129	0.107
Total Penta-Dioxins	29.71	5.474e3	7.659e3	2.161e2	3.579e2	0.60	NO	5.741e2	0.20742	0.20742	0.107

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	1 Resp	2 Resp	3 Resp	4 Resp
Total Hexa-Dioxins	33.32	2.732e4	1.910e4	1.245e3	1.028e3	1.21	NO	2.272e3	1.2374	1.2374	0.136
Total Hexa-Dioxins	34.15	6.741e3	5.768e3	4.224e2	3.654e2	1.16	NO	7.878e2	0.42901	0.42901	0.136
1,2,3,6,7,8-HxCDD	34.93	1.676e3	1.987e3	1.033e2	1.098e2	0.94	YES	2.131e2	0.00000	0.091899	0.126
1,2,3,7,8,9-HxCDD	35.23	3.665e3	2.790e3	2.259e2	1.558e2	1.45	YES	3.817e2	0.00000	0.18990	0.141

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	1 Resp	2 Resp	3 Resp	4 Resp
Total Hepta-Dioxins	37.75	1.823e4	1.881e4	1.418e3	1.445e3	0.98	NO	2.863e3	2.4167	2.4167	0.218
1,2,3,4,6,7,8-HpCDD	38.78	1.375e4	1.136e4	9.267e2	8.277e2	1.12	NO	1.754e3	1.4811	1.4811	0.218

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	1 Resp	2 Resp	3 Resp	4 Resp
Total Tetra-Furans	21.45	5.628e3	7.488e3	4.266e2	5.745e2	0.74	NO	1.001e3	0.23662	0.23662	0.0638

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-7B.qld

Last Altered: Friday, July 17, 2020 9:37:50 AM Pacific Daylight Time

Printed: Friday, July 17, 2020 9:39:03 AM Pacific Daylight Time

Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt%	Resp	Area	EMPC	UL
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Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt%	Resp	Area	EMPC	UL
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt%	Resp	Area	EMPC	UL
1,2,3,7,8,9-HxCDF	35.60	1.217e3	1.696e3	6.002e1	6.645e1	0.90	YES	1.265e2	0.00000	0.062096	0.103

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt%	Resp	Area	EMPC	UL
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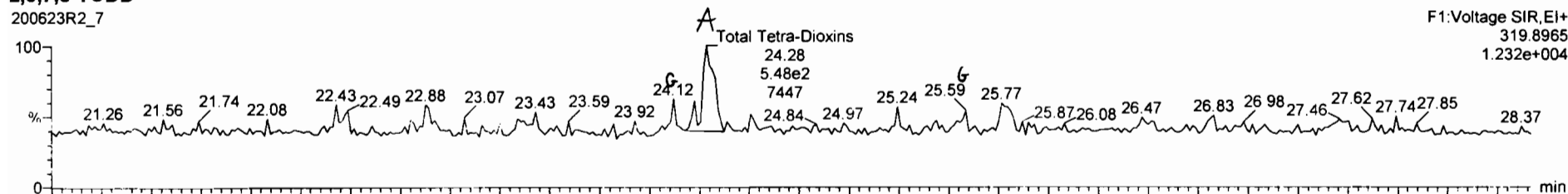
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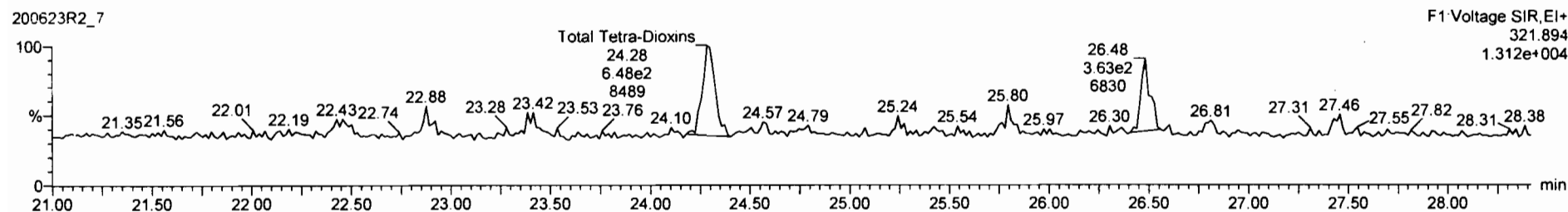
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2,3,7,8-TCDD

200623R2_7

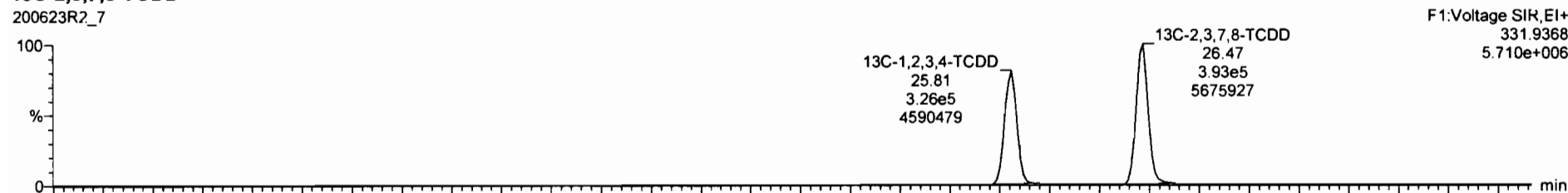


200623R2_7

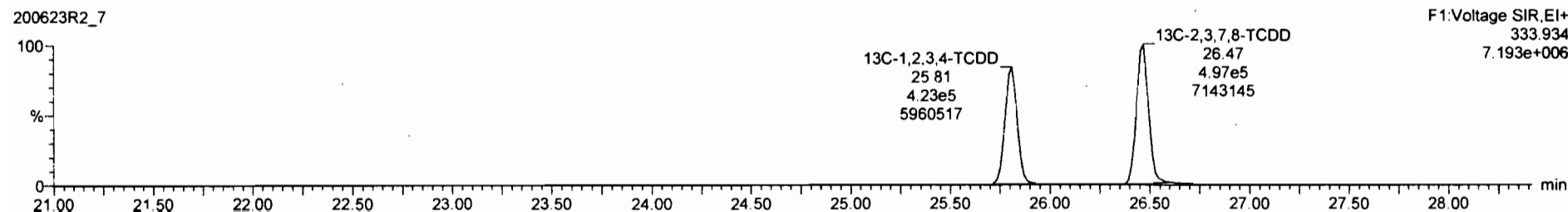


13C-2,3,7,8-TCDD

200623R2_7

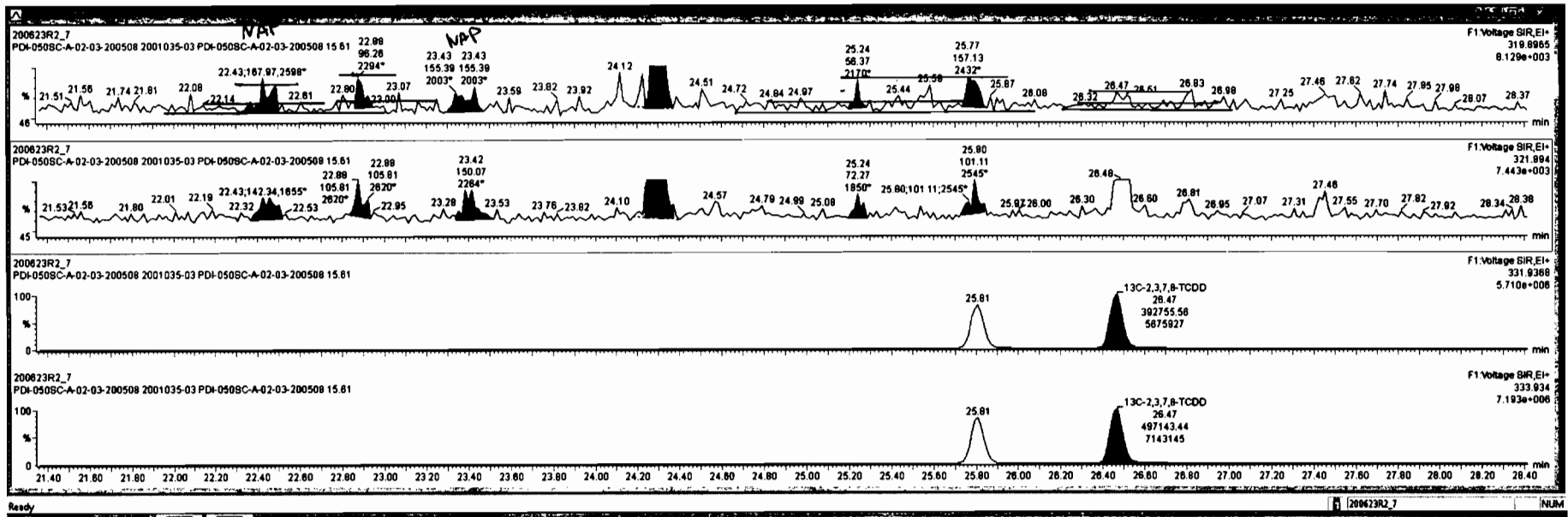


200623R2_7



Peak	RT	Area	Height	Width	Skew	Symmetry	Resolution	Integration	Response	Conc.	Unit
46	22.98	10.089	29.96						0.214	0.107	0.214
47	23.83	10.089	33.83						1.23	0.136	1.84
48	37.84	10.089	37.84						2.49	0.210	3.76
49	23.81	10.089	23.81						0.236	0.0636	0.236
46	27.58	10.089	27.58							0.0133	
46	28.27	10.089	28.27							0.0221	
46	33.56	10.089	33.56							0.0336	
47	37.83	10.089	37.83							0.0750	
46											

Name	RT	Int. Resp.	Ext. Resp.	Conc.	Unit	Conc.
Total Tetra-Dioxine	24.26	4.943e2	8.117e2	0.81	NO	0.27708

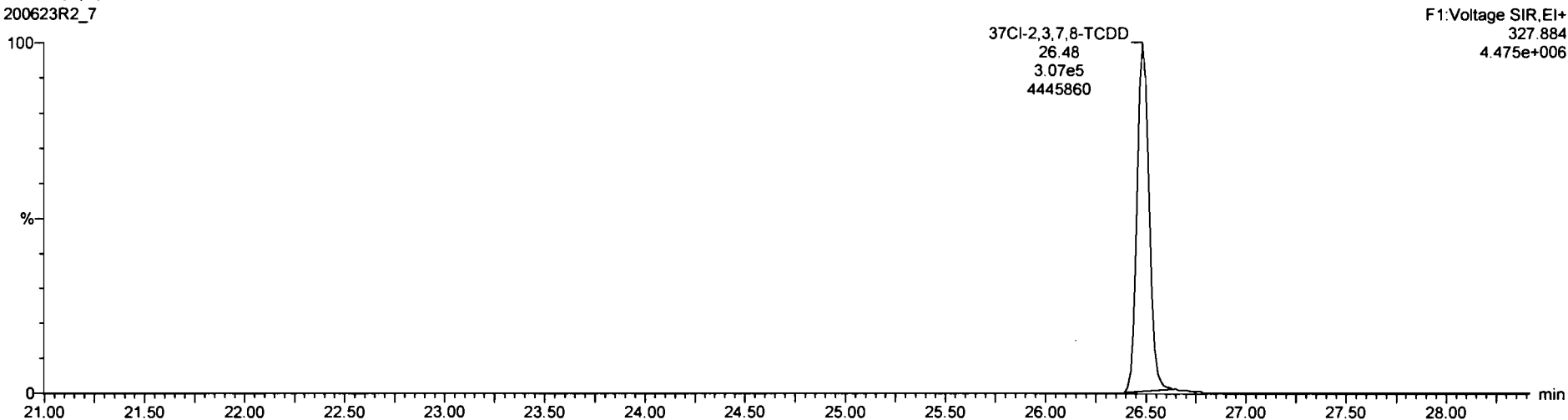


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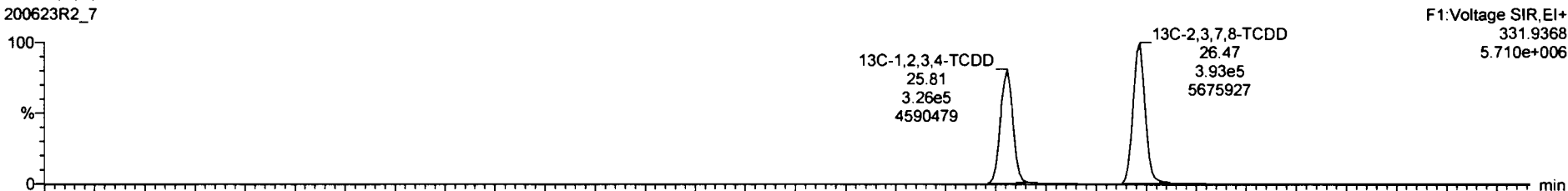
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Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508

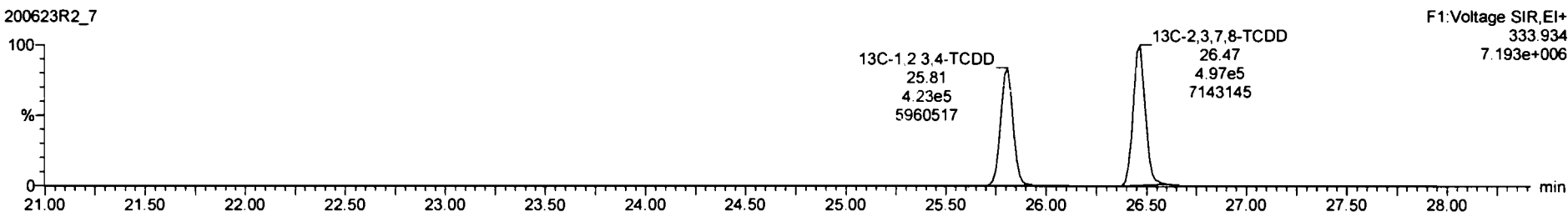
37Cl-2,3,7,8-TCDD
200623R2_7



13C-1,2,3,4-TCDD
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200623R2_7



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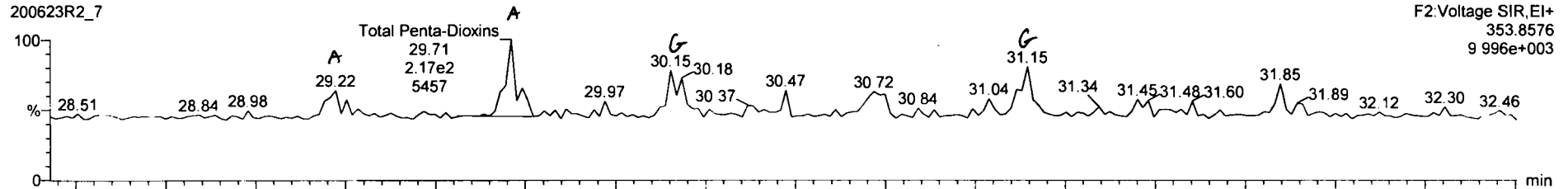
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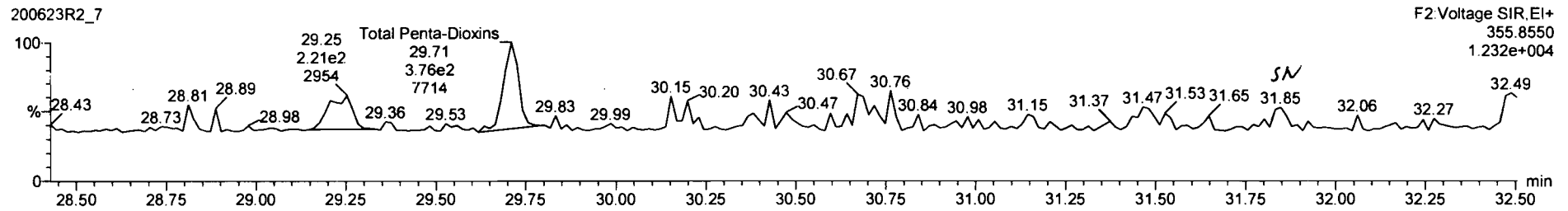
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1,2,3,7,8-PeCDD

200623R2_7

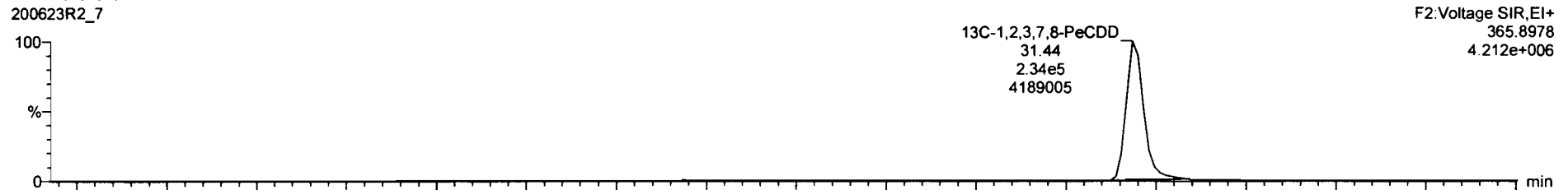


200623R2_7

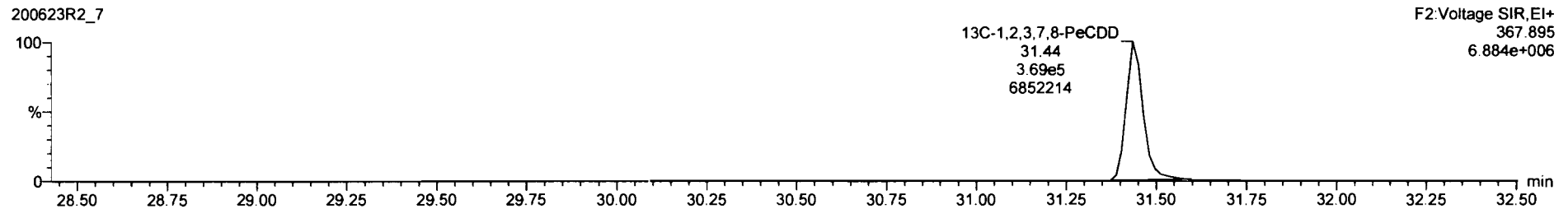


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200623R2_7

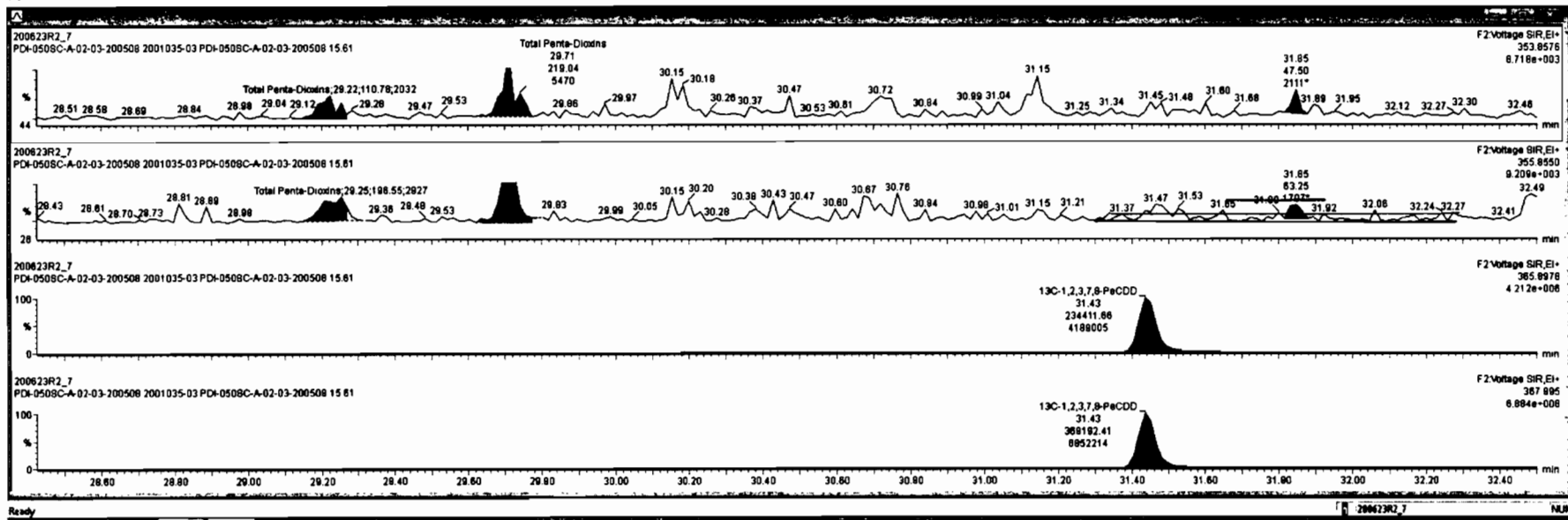


200623R2_7



PKC	Name	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
26	Total Tetra-Dioxins	0.8683	10.088	24.82				0.263			0.0426		0.263
28	Total Hexa-Dioxins	0.8623	10.088	33.83				1.23			0.136		1.84
42	Total Hepta-Dioxins	0.8638	10.088	37.84							0.106		
43	Total Tetra-Furans	0.7510	10.088	23.81				0.238			0.0638		0.238
46	1st Func. Penta-Furans	0.8625	10.088	27.58							0.0133		
48	Total Penta-Furans	0.8625	10.088	28.27							0.0221		
49	Total Hexa-Furans	0.8341	10.088	33.58							0.0336		
47	Total Hepta-Furans	0.8734	10.088	37.83							0.0750		
49	PFHx1												

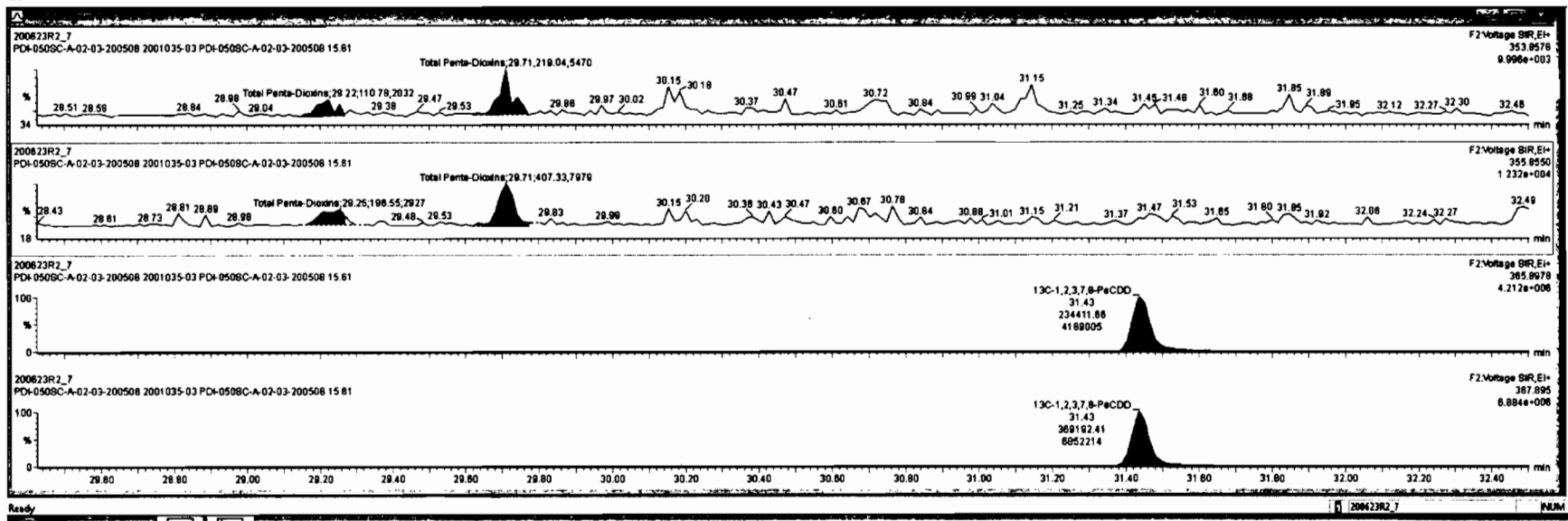
Name	RT	ret Flag	int Flag	RA	SN	SNPC	Comp.
1	Total Penta-Dioxins	29.71	2.180e2	4.073e2	0.54	NO	0.22832 0.22832
2	Total Penta-Dioxins	29.22	1.108e2	1.985e2	0.56	NO	0.11105 0.00000





Name	Comp	PK	Qty	Wt	Volume	Conc	RT	Area	Height	W	Area	Height
Total Tetra-Dioxine				0.0603	10.000	24.82			0.263		0.0430	0.203
Total Hexa-Dioxine				0.0623	10.000	33.63			1.23		0.136	1.64
Total Hepta-Dioxine				0.0630	10.000	37.84					0.106	
Total Tetra-Furane				0.7510	10.000	23.61			0.236		0.0630	0.236
1st Func. Penta-Furane				0.0625	10.000	27.50					0.0133	
Total Penta-Furane				0.0625	10.000	29.27					0.0221	
Total Hexa-Furane				0.8341	10.000	33.96					0.0330	
Total Hepta-Furane				0.8734	10.000	37.83					0.0750	
PFK1												

Name	RT	int Resp	ext Resp	RA	off	EMPC	Comp.
1: Total Penta-Dioxine	29.71	2.190a2	4.073a2	0.54	NO	0.22632	0.22632
2: Total Penta-Dioxine	29.22	1.106a2	1.985a2	0.56	NO	0.11105	0.00000



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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

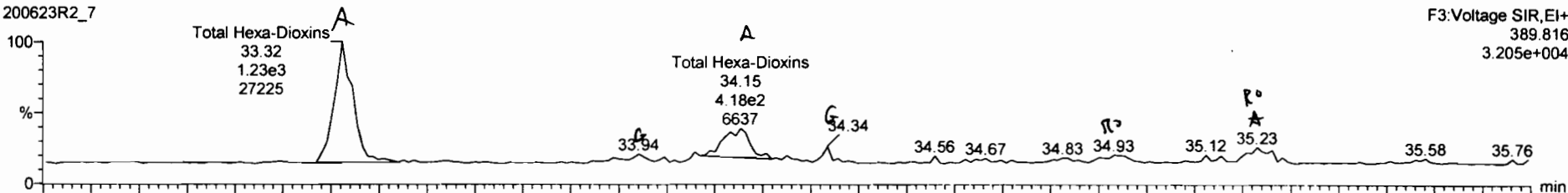
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Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508

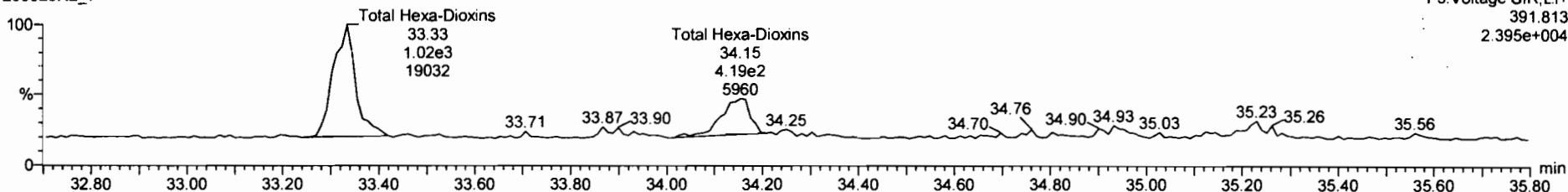
HN 06/25/2020

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

200623R2_7

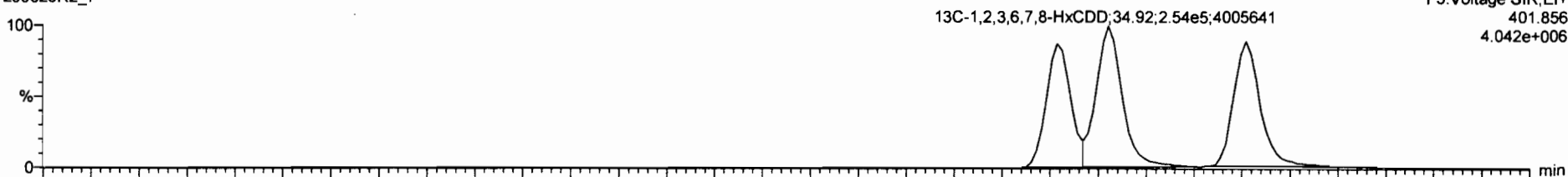


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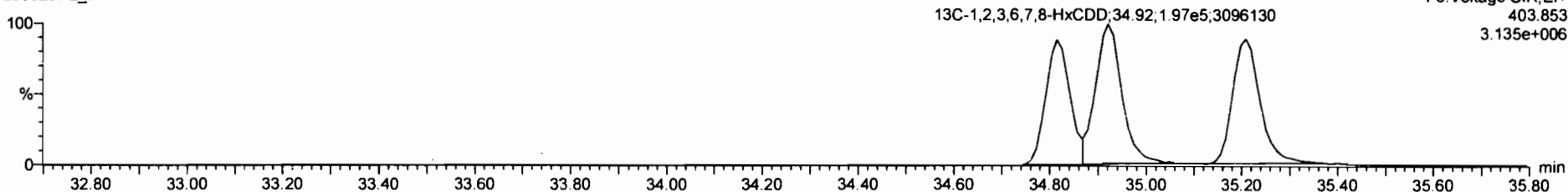


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200623R2_7

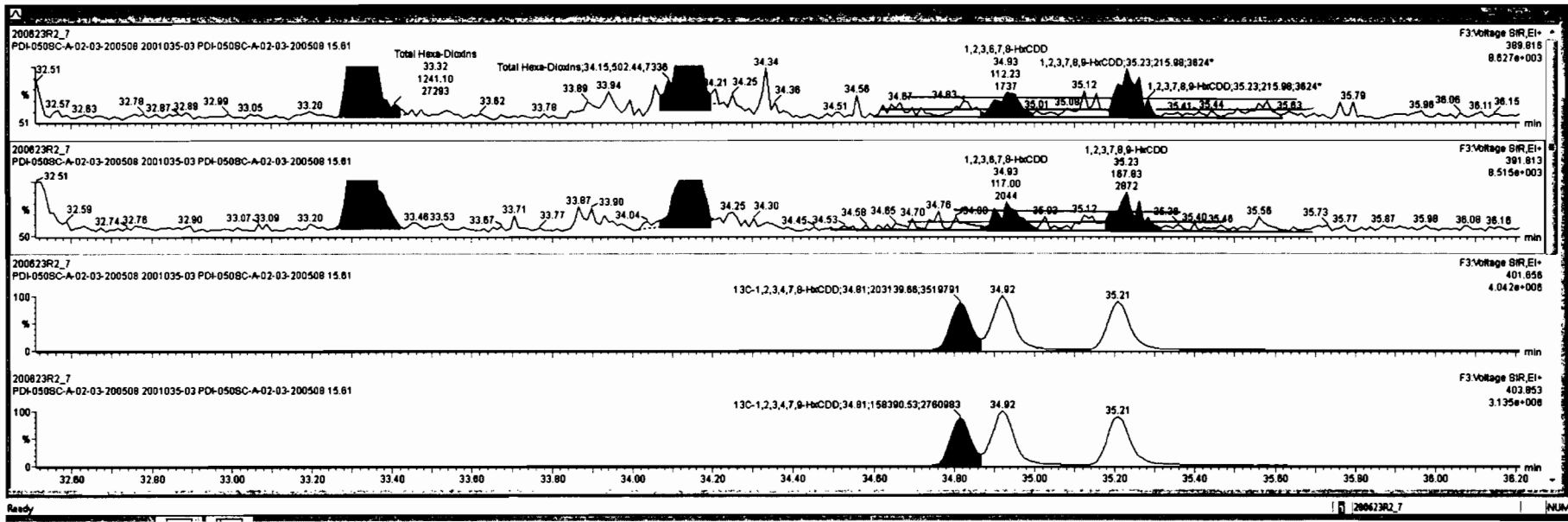


200623R2_7



Item	Comp	Area	Height	Wt%	Conc	DL	EMPC
41	Total Tetra-Dioxins	0.8983	10.099	24.82	0.283	0.0426	0.283
42	Total Penta-Dioxins	0.9091	10.099	28.96	0.226	0.107	0.337
43	Total Hexa-Dioxins	0.8930	10.099	37.84			0.106
44	Total Tetra-Furans	0.7510	10.099	23.61	0.236	0.0636	0.236
45	1st Func. Penta-Furans	0.8925	10.099	27.58		0.0133	
46	Total Penta-Furans	0.8925	10.099	26.27		0.0221	
47	Total Hexa-Furans	0.9341	10.099	33.58		0.0336	
48	Total Hepta-Furans	0.8734	10.099	37.83		0.0750	
49	PHK1						

Item	RT	Int	Area	Height	Wt%	Conc
1	33.32	1.241e3	1.033e3	1.20	NO	1.2391
2	34.15	5.024e2	4.405e2	1.14	NO	0.51348
3	34.83	1.122e2	1.170e2	0.98	YES	0.099792
4	35.23	1.876e2	1.876e2	1.12	NO	0.18336



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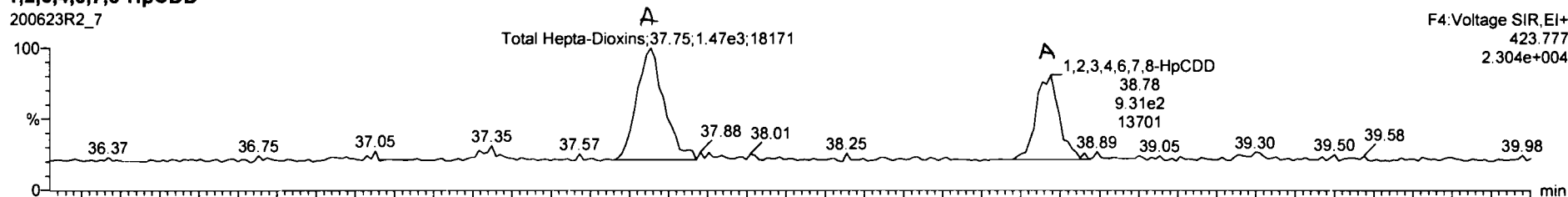
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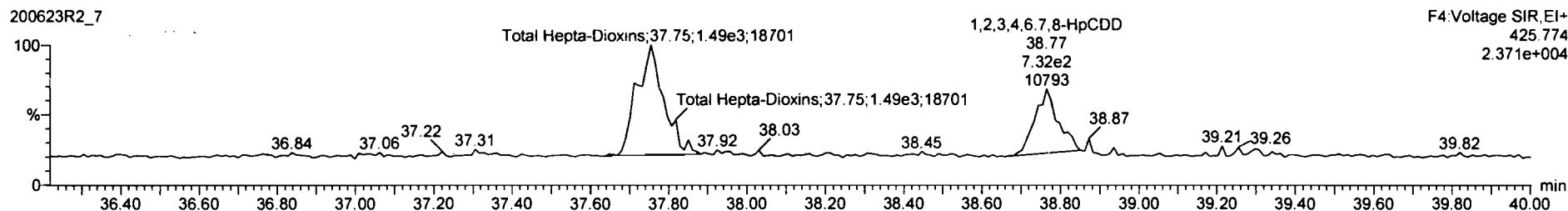
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1,2,3,4,6,7,8-HpCDD

200623R2_7

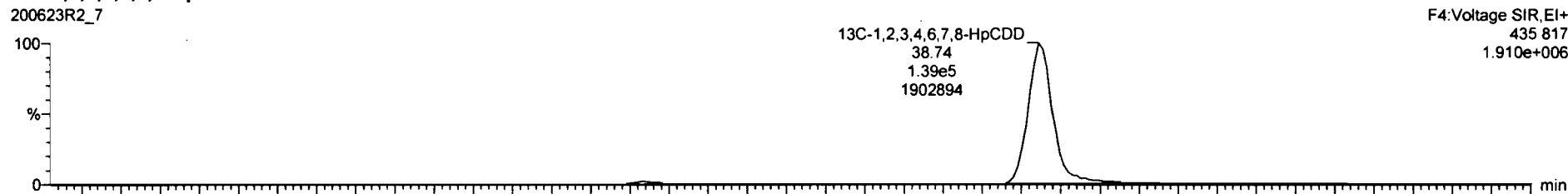


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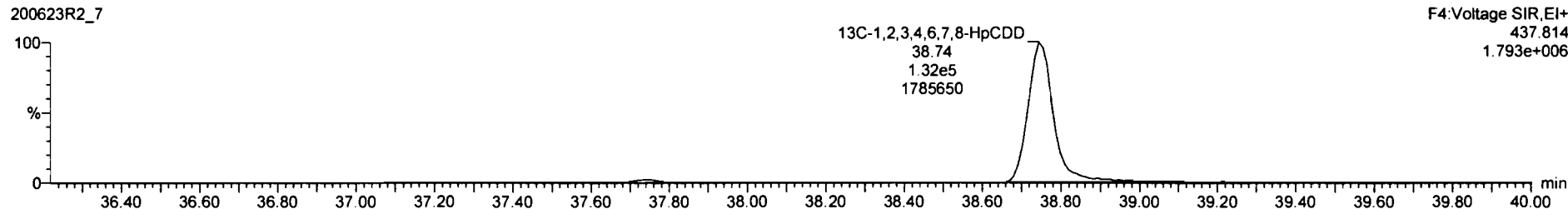


13C-1,2,3,4,6,7,8-HpCDD

200623R2_7



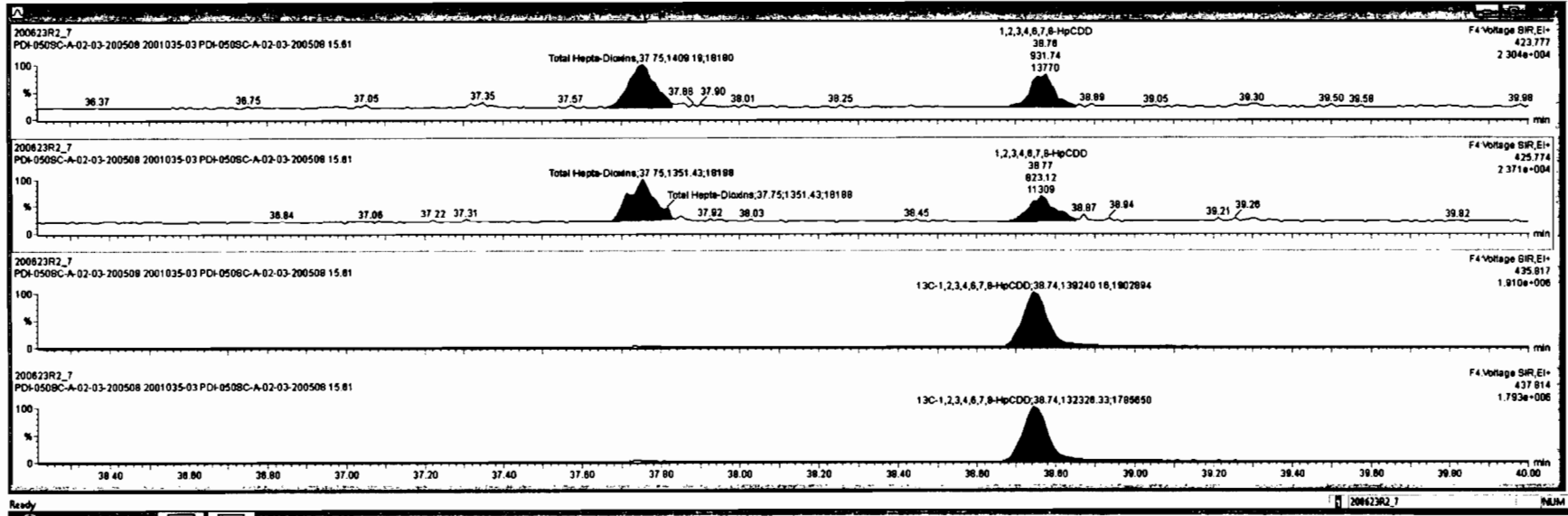
200623R2_7





Peak	Name	Resp	Ch	Qty	Area	Height	Width	RT	WRT	Comp	WComp	QL	StatPC
38	Total Tetra-Dioxins				0.8983	10.089	24.82			0.263		0.0429	0.283
40	Total Penta-Dioxins				0.9091	10.089	29.95			0.226		0.107	0.337
41	Total Hexa-Dioxins				0.8623	10.089	33.83			1.99		0.136	2.05
42													
43	Total Tetra-Furans				0.7510	10.089	23.81			0.236		0.0638	0.236
44	1st Func. Penta-Furans				0.8625	10.089	27.59					0.0133	
45	Total Penta-Furans				0.8625	10.089	29.27					0.0221	
46	Total Hexa-Furans				0.8341	10.089	33.98					0.0336	
47	Total Hepta-Furans				0.8734	10.089	37.83					0.0750	
48	PKCl												

Peak	Name	RT	Int Resp	Int Area	Std. Dev.	Area%	StatPC	Comp.
1	Total Hepta-Dioxins	37.75	1.409e3	1.361e3	1.04	NO	2.3304	2.3304
2	1,2,3,4,6,7,8-HpCDD	38.70	9.317e2	8.221e2	1.13	NO	1.4814	1.4814

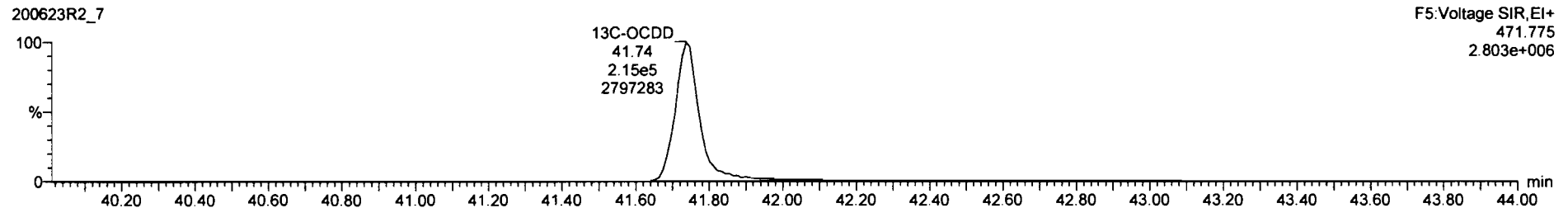
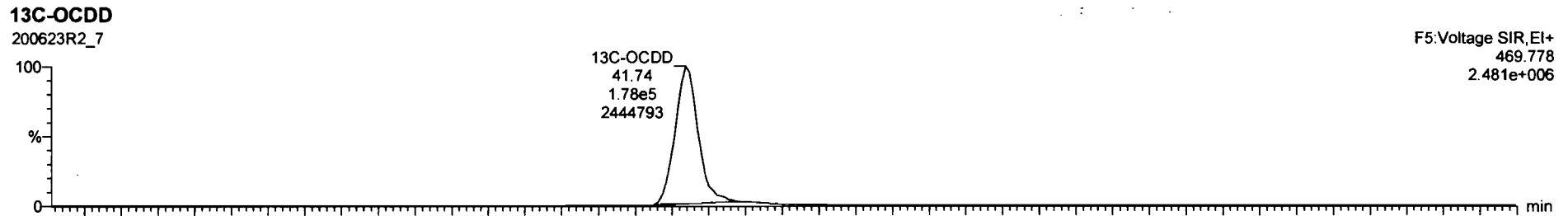
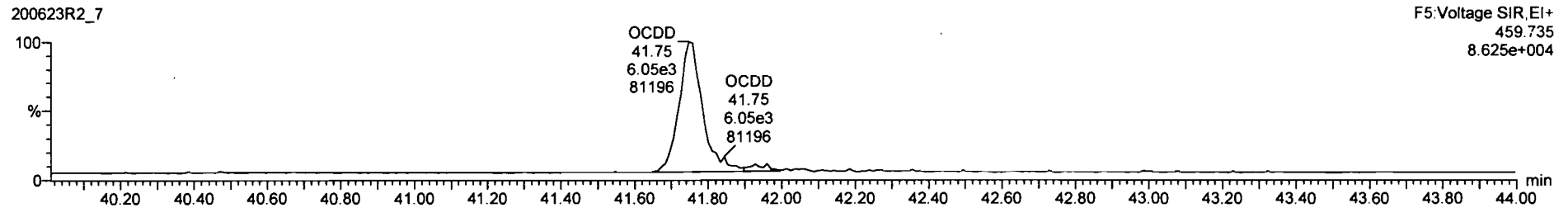
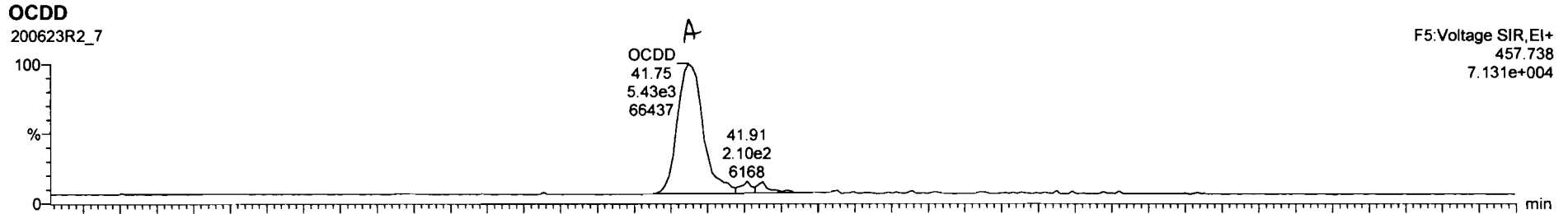


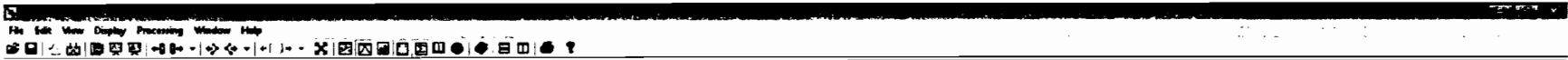
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

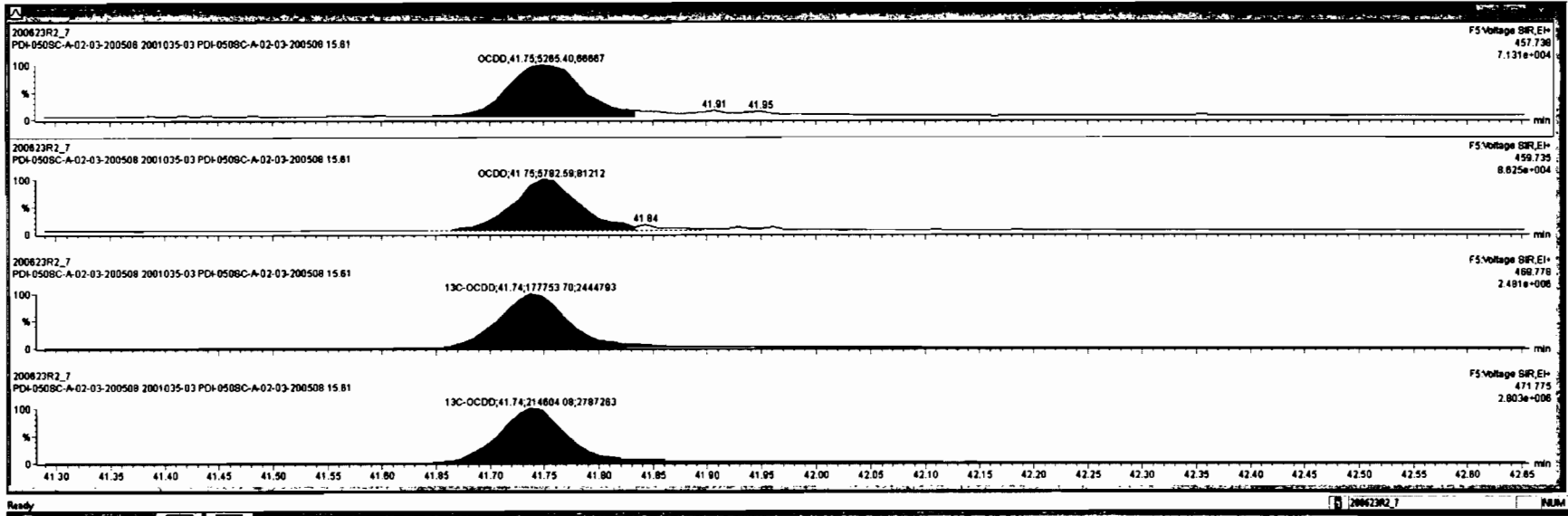
Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508





Item	Temp	RA	Ref	Level	Area	Height	Width	Area%	Height%	Width%
7										
8	2,3,7,8-TCDF		NO	0.7510	10.000	25.60				0.0830
9	1,2,3,7,8-PeCDF		NO	0.8625	10.000	30.17				0.0384
10	2,3,4,7,8-PeCDF			0.9348	10.000	31.16				0.0210
11	1,2,3,4,7,8-HxCDF									
12	1,2,3,8,7,8-HxCDF									
13	2,3,4,8,7,8-HxCDF		NO	0.9341	10.000	34.85				0.0673
14	1,2,3,7,8,9-HxCDF		NO	0.8707	10.000	35.55				0.103
15	1,2,3,4,8,7,8-HxCDF		NO	0.8734	10.000	37.30				0.139
16	1,2,3,4,7,8,9-HxCDF		NO	1.0128	10.000	39.30				0.185

Item	RT	Int Resp	Ext Resp	RA	Ref	Area	Height	Width	Area%	Height%	Width%
1											



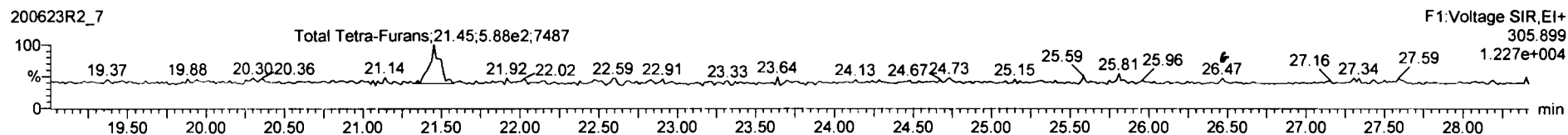
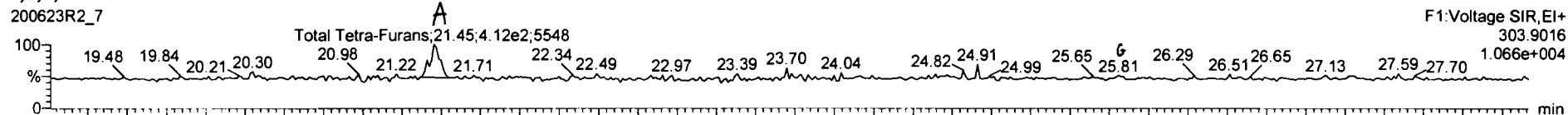
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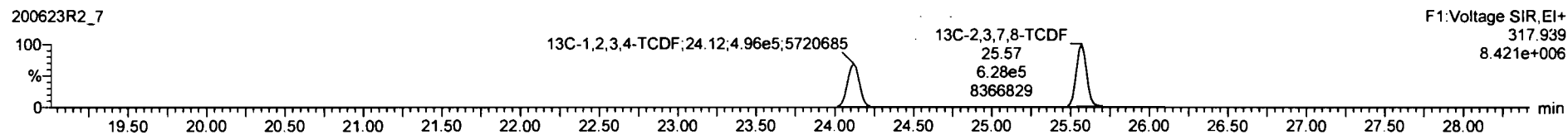
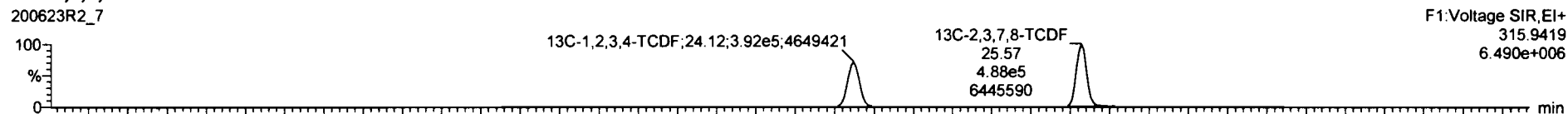
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508

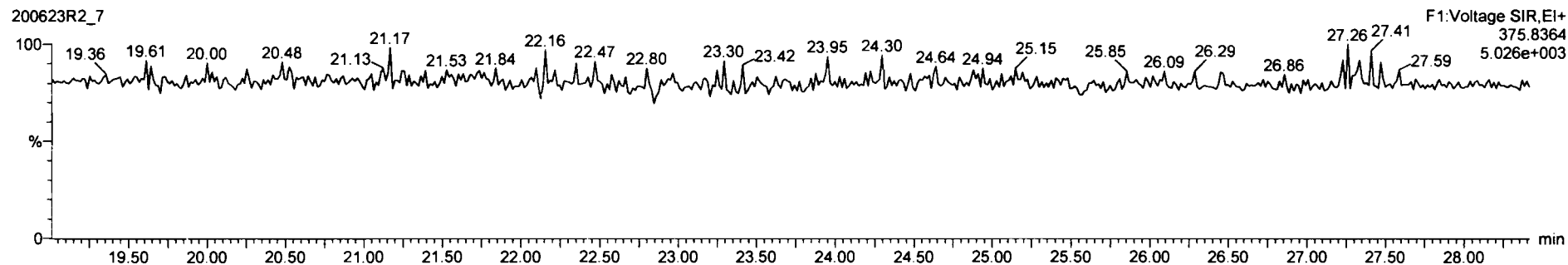
2,3,7,8-TCDF



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

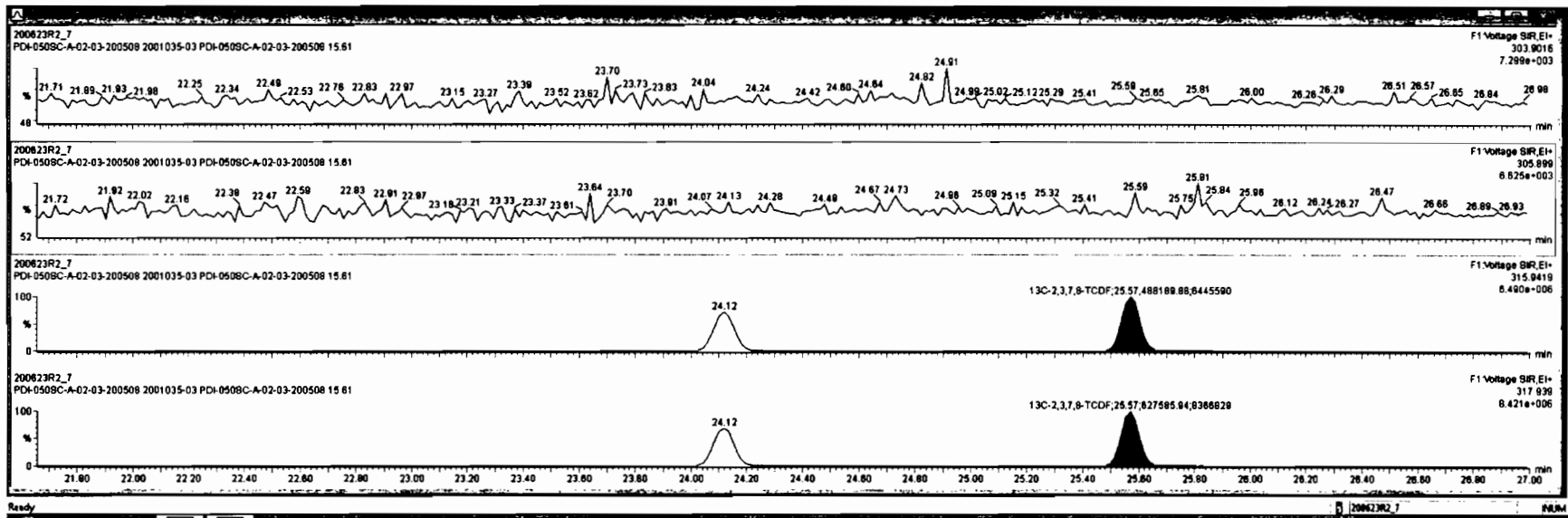


DPE1



Peak	Name	Area	Height	Width	Retention	Integration	Response	Integration	Response
44	1st Func. Penta-Furans	0.8625	10.000	27.98					0.0133
45	Total Penta-Furans	0.8625	10.000	26.27					0.0221
46	Total Hexa-Furans	0.9341	10.000	33.96					0.0336
47	Total Hepta-Furans	0.8734	10.000	37.83					0.0750
48	PFK1								
49	PFK2								
50	PFK3								
51	PFK4								
52	PFK5								

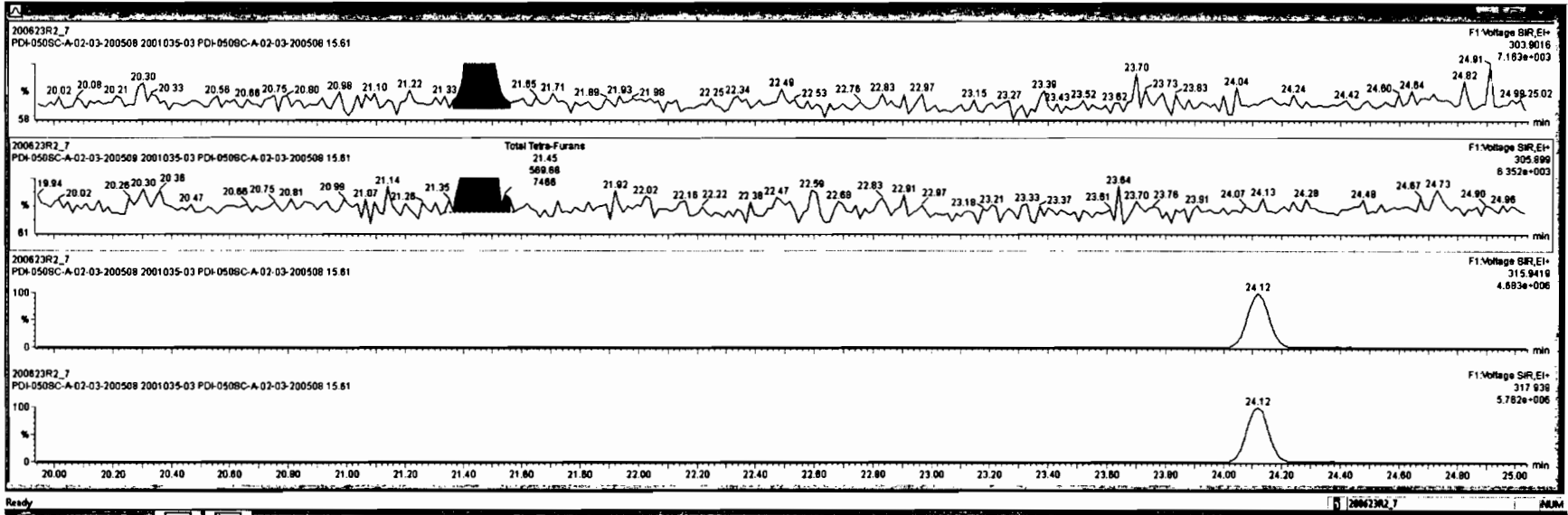
Name	Ref	ret Time	Height	Area	Width	Integration	Response
1		21.46	4.904e2	5.867e2	0.86	NO	0.25006 0.25006





Index	Name	Area	Height	Width	Volume	Conc.
44	Total Furan: Penta-Furane	0.8925	10.000	27.58		0.0133
45	Total Penta-Furane	0.8925	10.000	26.27		0.0221
46	Total Hexa-Furane	0.8241	10.000	33.56		0.0296
47	Total Hepta-Furane	0.8734	10.000	37.83		0.0750
48	PFK1					
49	PFK2					
50	PFK3					
51	PFK4					
52	PFK5					

Index	Name	RT	Int Resp	Int Resp	Area	Vol	Conc.
1	Total Tetra-Furane	21.45	4.904e2	5.887e2	0.88	MC	0.25058 0.25058



Dataset: Untitled

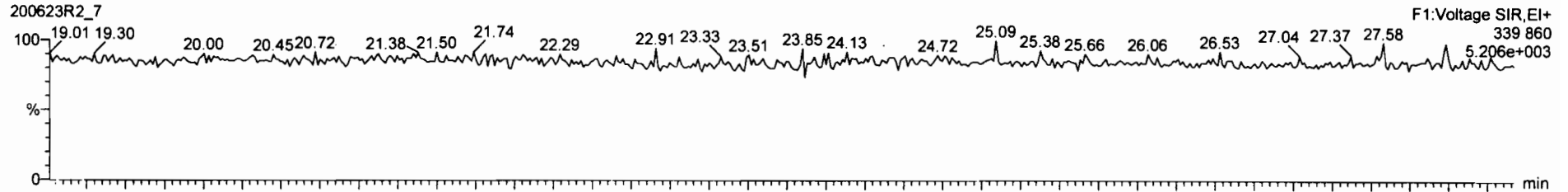
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

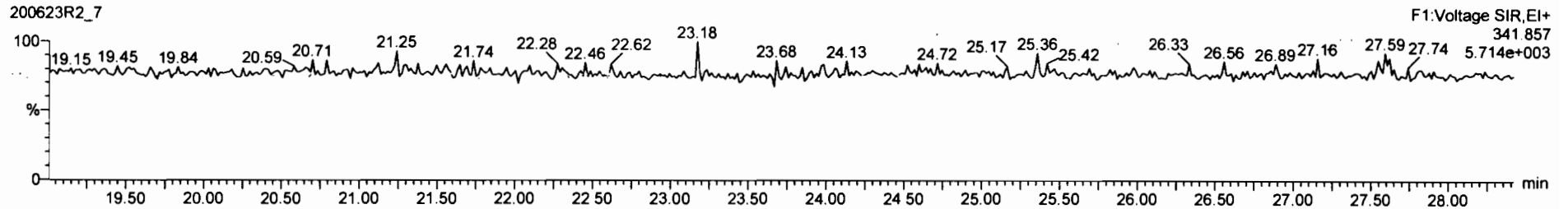
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1st Func. Penta-Furans

200623R2_7

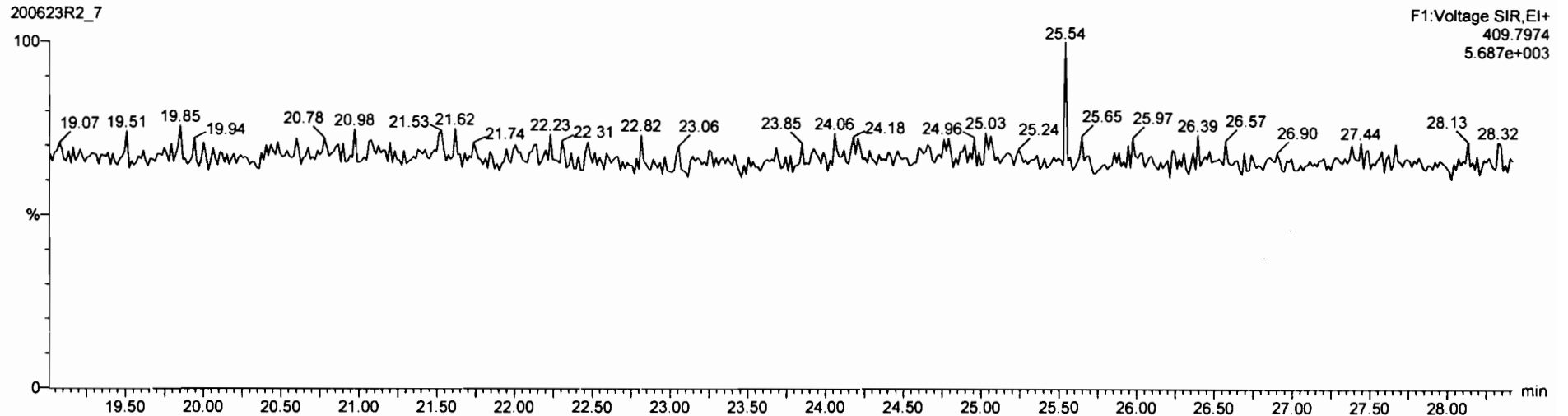


200623R2_7



DPE6

200623R2_7



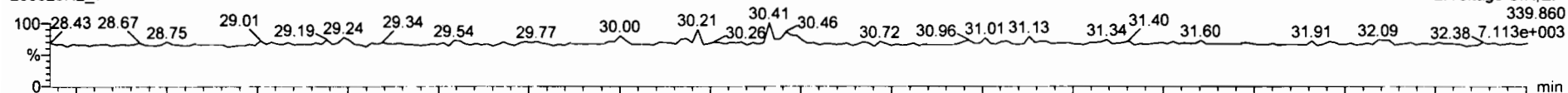
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

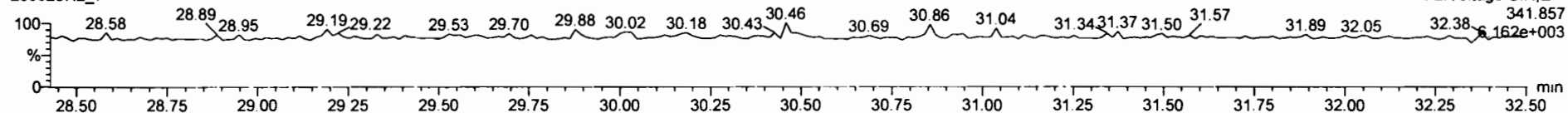
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1,2,3,7,8-PeCDF

200623R2_7



200623R2_7

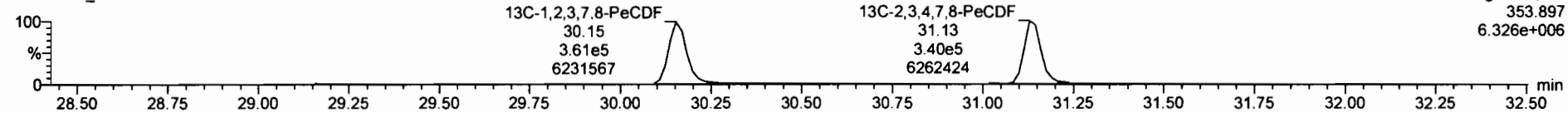


13C-1,2,3,7,8-PeCDF

200623R2_7

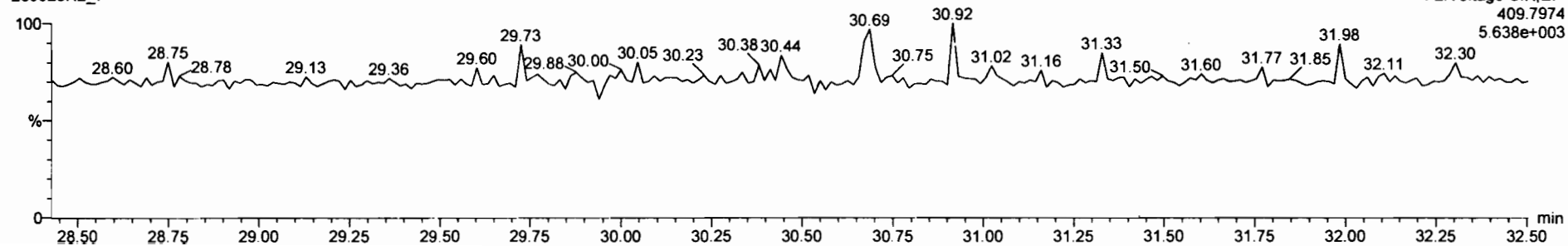


200623R2_7



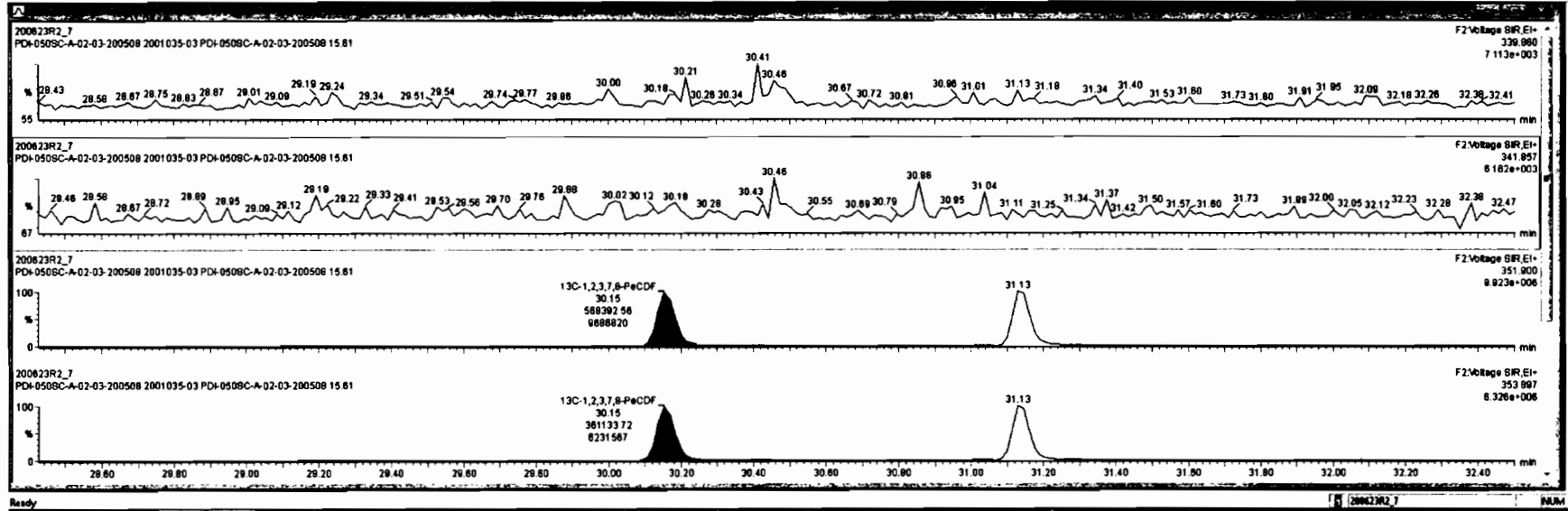
DPE2

200623R2_7



Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
63	Total Tetra-Furans	0.7510	10.000	23.81		0.251				0.0030	0.251		
64	Total Penta-Furans	0.8825	10.000	27.88						0.0133			
65	Total Hexa-Furans	0.8341	10.000	35.56						0.0336			
67	Total Hepta-Furans	0.8734	10.000	37.83						0.0750			
68	PFK1												
69	PFK2												
70	PFK3												
71	PFK4												
72	PFK5												

Name	WT	wt Ramp	wd Ramp	SA	app	SRV	Comp
1							



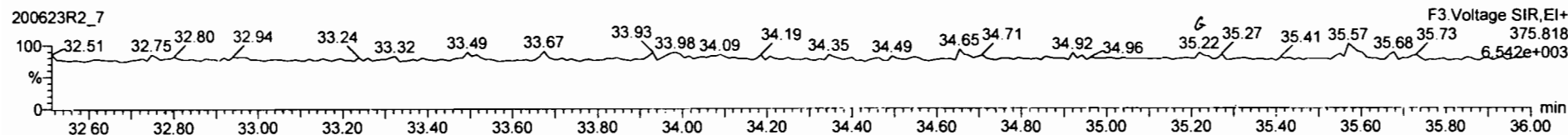
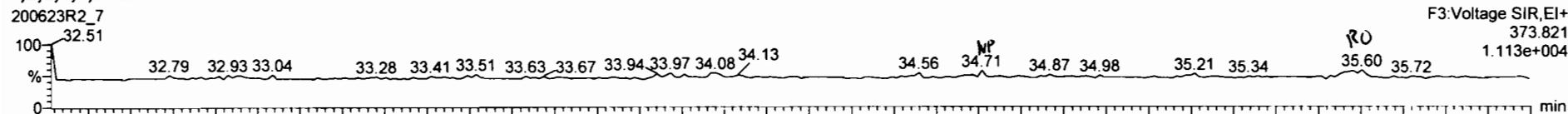
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

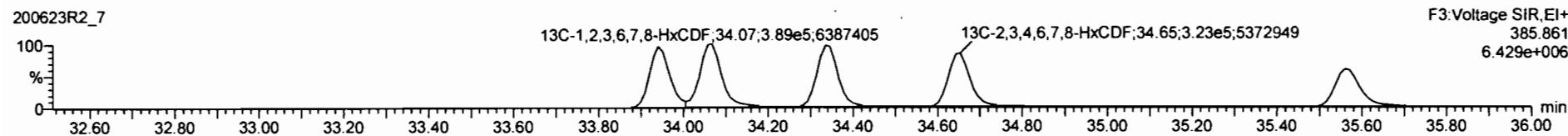
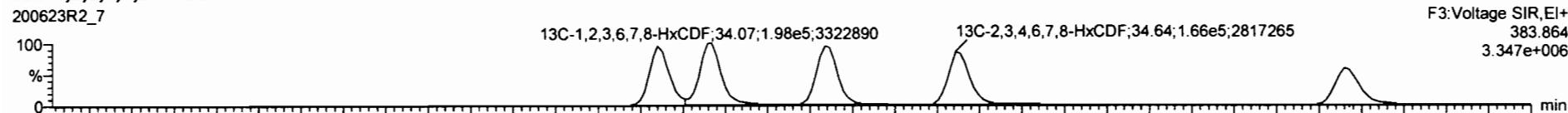
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508

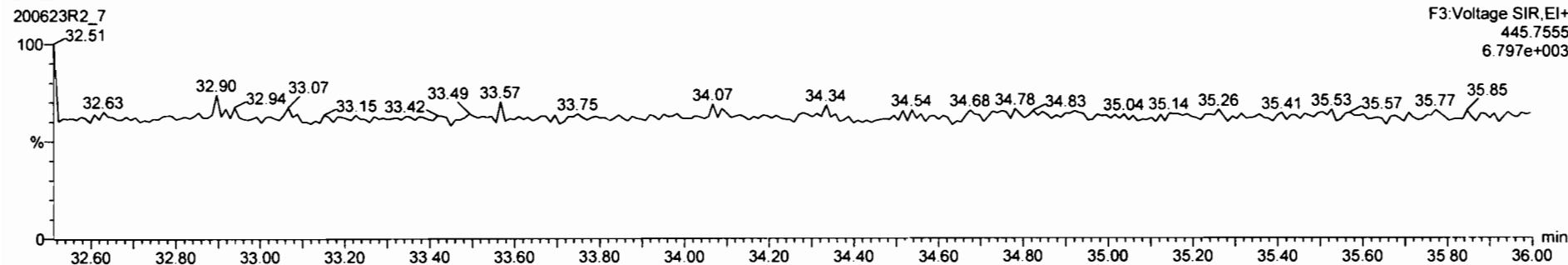
1,2,3,4,7,8-HxCDF



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



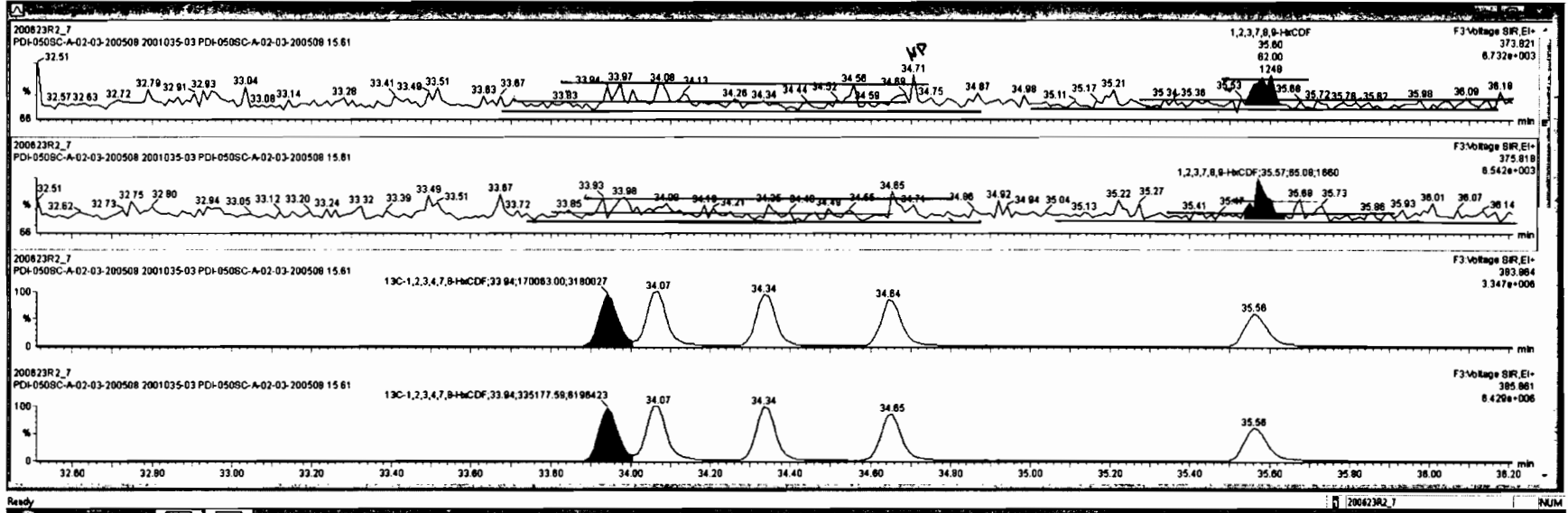
DPE3



File Edit View Display Processing Window Help

Name	RT	Int Resp	Ext Resp	RA	Int	Ext	Conc	Unit	SL	DFPC
43 Total Tetra-Furans					0.7510	10.000	23.81		0.0020	0.251
44 Tet Furoc. Penta-Furans					0.0625	10.000	27.50		0.0133	
45 Total Penta-Furans					0.0625	10.000	29.37		0.0221	
46 Total Hexa-Furans										
47 Total Hepta-Furans					0.8734	10.000	37.83		0.0750	
48 PFK1										
49 PFK2										
50 PFK3										
51 PFK4										
52 PFK5										

Name	RT	Int Resp	Ext Resp	RA	Int	Ext	Conc
1 1,2,3,7,8,9-HxCDF	36.80	6.200e1	6.500e1	0.95	YES	0.084135	0.00000



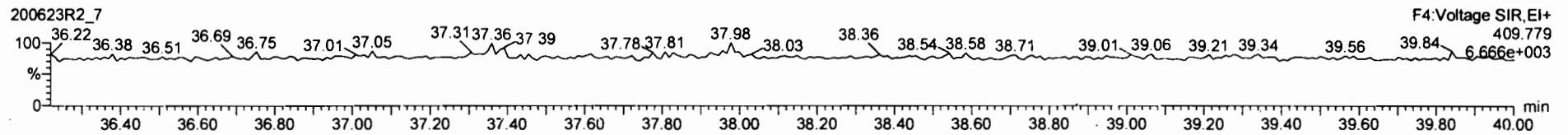
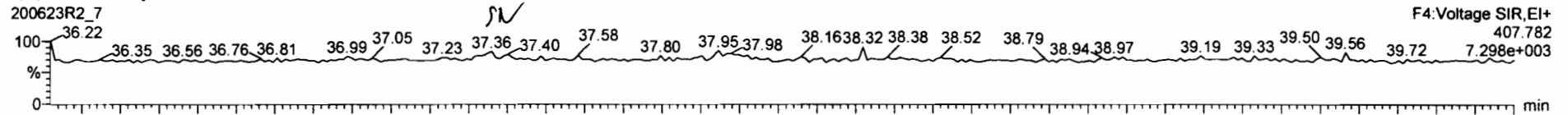
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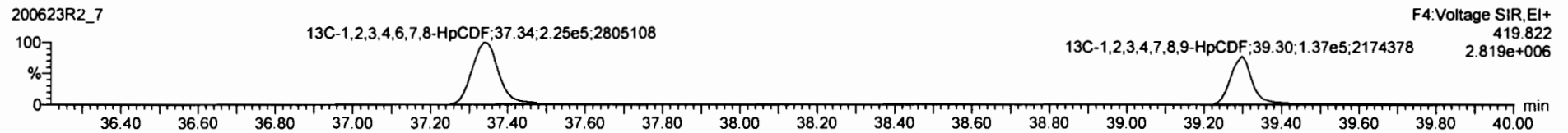
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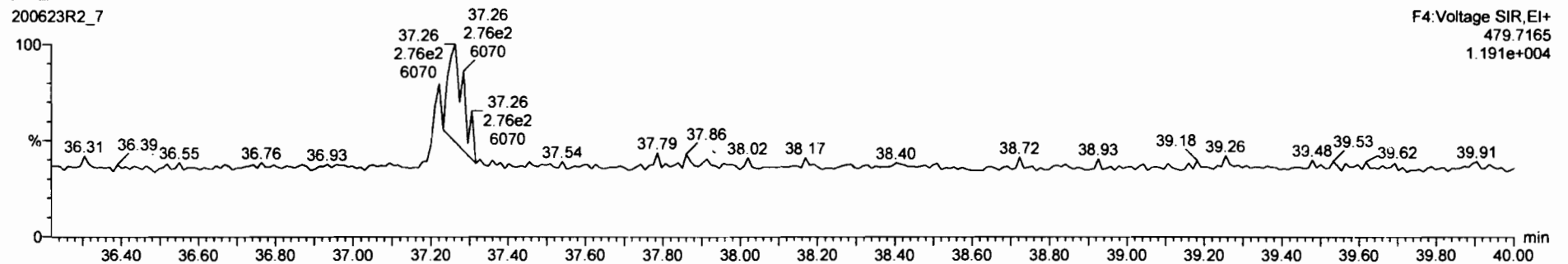
1,2,3,4,6,7,8-HpCDF



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



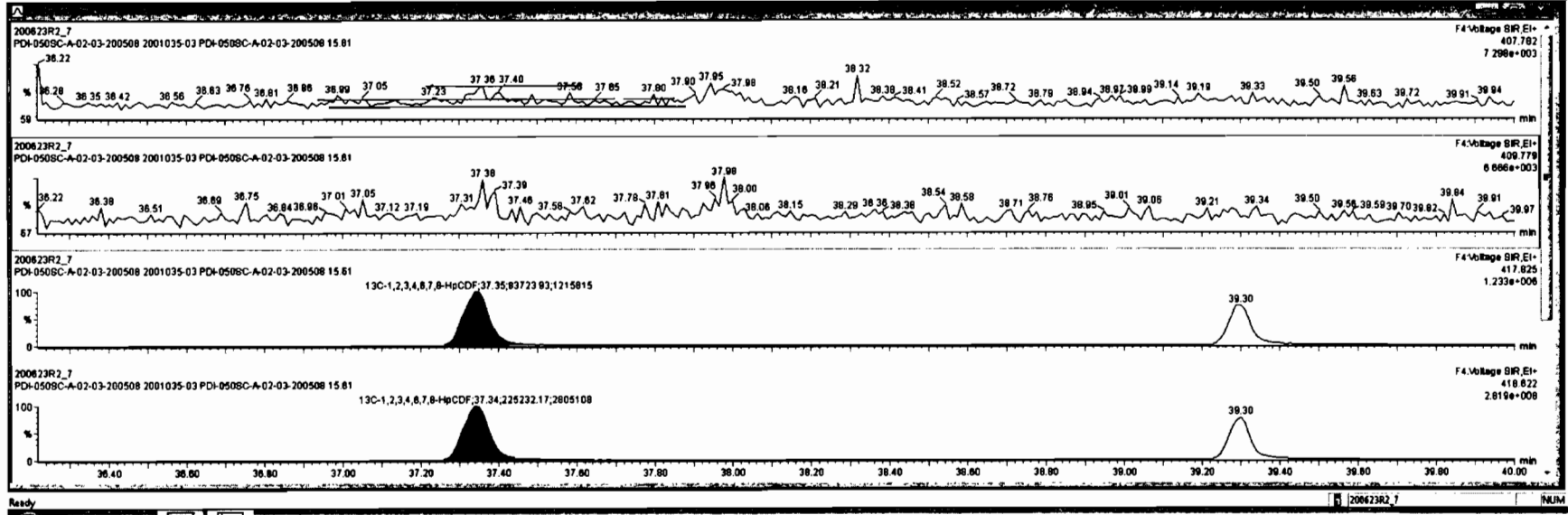
DPE4





PKT	Name	Weight	Area	Height	Area%	Height%	Area	Height	Area%	Height%
45	Total Tetra-Furans		0.7510	10.069	23.91		0.291	0.0830	0.251	
46	Total Penta-Furans		0.8625	10.069	22.58			0.0133		
47	Total Hexa-Furans		0.8341	10.069	22.58		0.000	0.0336	0.0641	
48	PFK1									
49	PFK2									
50	PFK3									
51	PFK4									
52	PFK5									

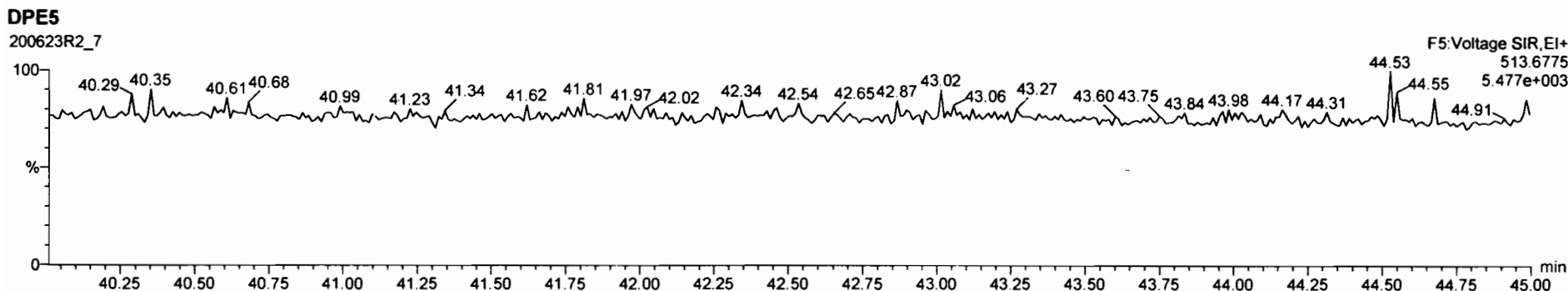
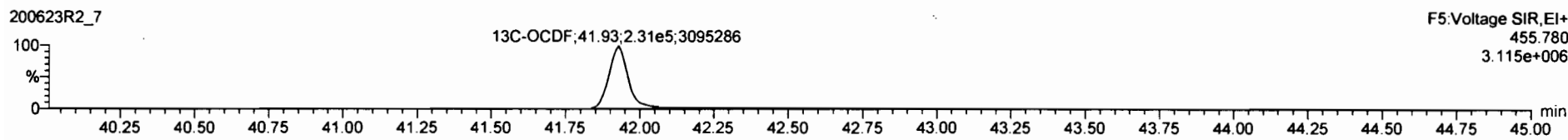
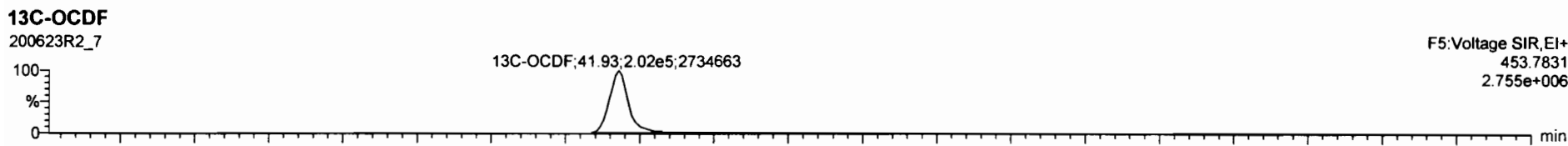
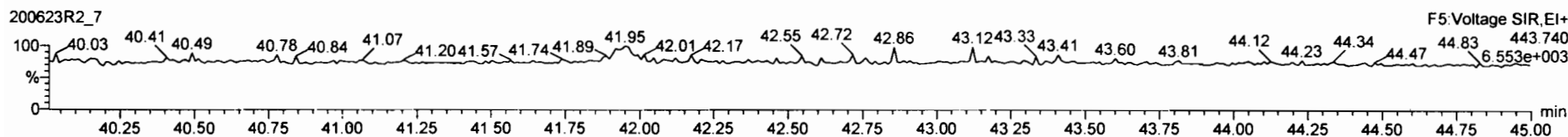
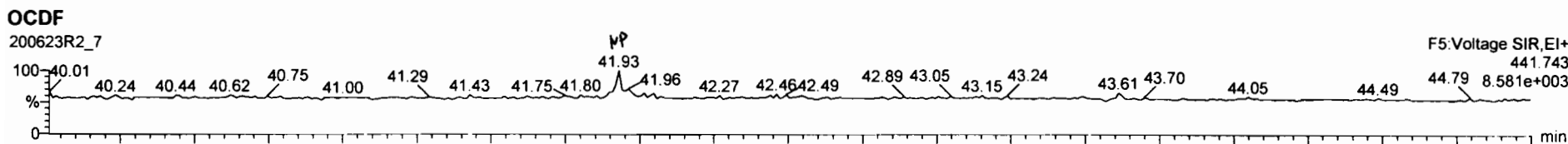
Name	RT	Int Resp	Ext Resp	PK	Int	Ext	Area	Area%
8								



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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

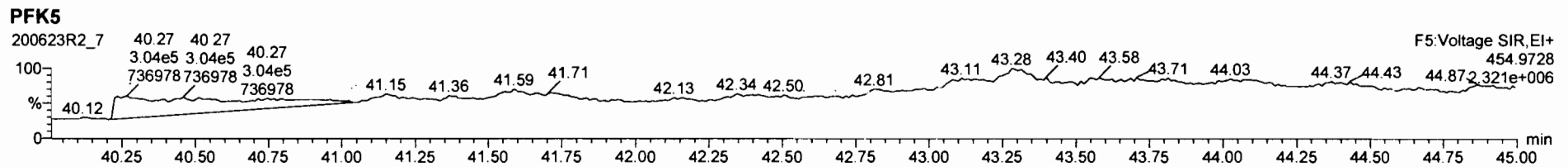
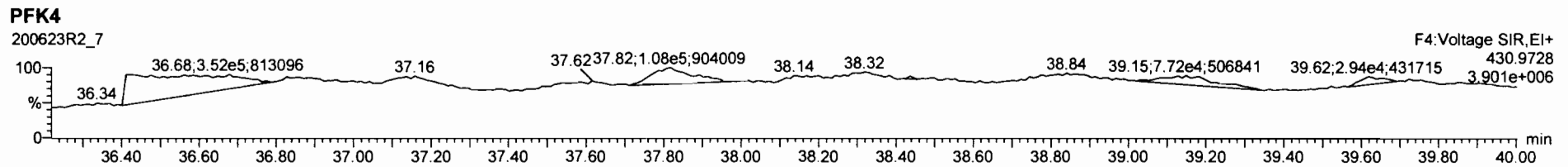
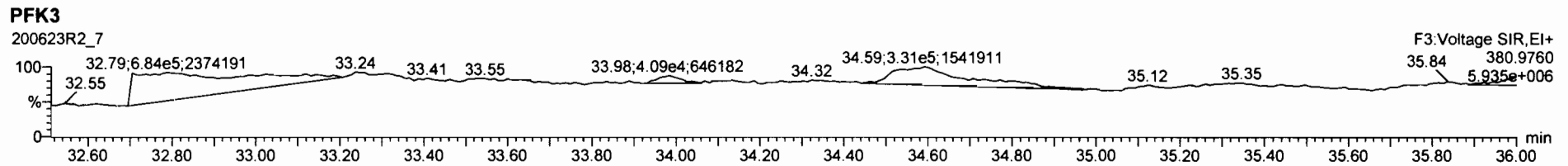
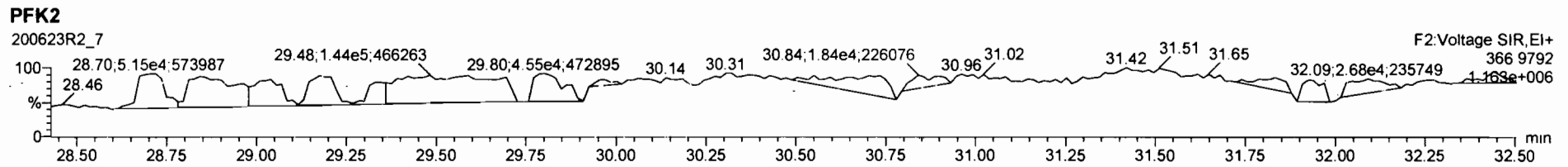
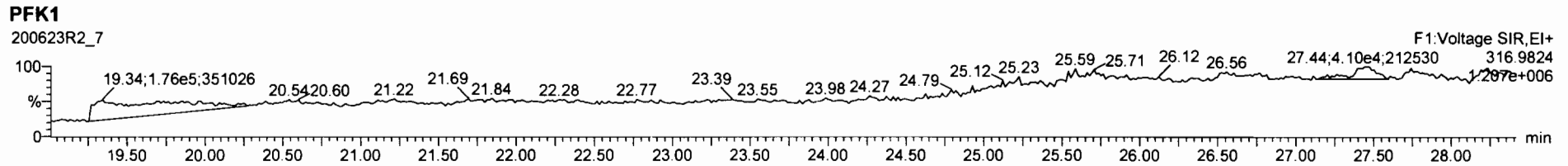
Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508



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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_7, Date: 23-Jun-2020, Time: 19:42:41, ID: 2001035-03 PDI-050SC-A-02-03-200508 15.61, Description: PDI-050SC-A-02-03-200508



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-8B.qld

Last Altered: Friday, June 26, 2020 8:43:44 AM Pacific Daylight Time
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HN 06/26/2020

C707/17/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.888	10.244	26.516		1.001				0.0707	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.244	31.473		1.001				0.118	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.244	34.835		1.000				0.169	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.244	34.932		1.000				0.170	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.244	35.230		1.000				0.196	
6	6 1,2,3,4,6,7,8-HpCDD	1.78e3	1.00	NO	0.864	10.244	38.767	38.77	1.000	1.000	1.4825		0.298	1.48
7	7 OCDD	1.18e4	0.93	NO	0.914	10.244	41.748	41.75	1.000	1.000	12.422		0.230	12.4
8	8 2,3,7,8-TCDF			NO	0.751	10.244	25.612		1.001				0.0479	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.244	30.190		1.001				0.0521	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.244	31.177		1.001				0.0492	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.244	33.952		1.000				0.0854	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.244	34.090		1.000				0.0794	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.244	34.690		1.001				0.0933	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.244	35.581		1.000				0.150	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.244	37.386		1.001				0.140	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.244	39.298		1.000				0.165	
17	17 OCDF			NO	0.806	10.244	41.929		1.000				0.146	
18	18 13C-2,3,7,8-TCDD	8.38e5	0.78	NO	1.16	10.244	26.507	26.48	1.026	1.026	199.47	102	0.250	
19	19 13C-1,2,3,7,8-PeCDD	5.69e5	0.62	NO	0.849	10.244	31.692	31.45	1.227	1.218	184.45	94.5	0.373	
20	20 13C-1,2,3,4,7,8-HxCDD	3.51e5	1.27	NO	0.779	10.244	34.830	34.83	1.014	1.014	184.19	94.3	0.637	
21	21 13C-1,2,3,6,7,8-HxCDD	4.44e5	1.27	NO	1.02	10.244	34.944	34.93	1.017	1.017	178.11	91.2	0.488	
22	22 13C-1,2,3,7,8,9-HxCDD	4.05e5	1.25	NO	0.903	10.244	35.215	35.22	1.025	1.025	183.21	93.8	0.549	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.71e5	1.02	NO	0.689	10.244	38.739	38.76	1.128	1.128	160.69	82.3	0.550	
24	24 13C-OCDD	4.04e5	0.87	NO	0.652	10.244	41.761	41.75	1.216	1.216	253.19	64.8	0.550	
25	25 13C-2,3,7,8-TCDF	1.04e6	0.76	NO	1.06	10.244	25.549	25.59	0.989	0.991	233.71	120	0.345	
26	26 13C-1,2,3,7,8-PeCDF	8.70e5	1.59	NO	0.838	10.244	30.076	30.17	1.165	1.168	247.35	127	0.815	
27	27 13C-2,3,4,7,8-PeCDF	8.22e5	1.56	NO	0.817	10.244	31.029	31.15	1.202	1.206	239.77	123	0.837	
28	28 13C-1,2,3,4,7,8-HxCDF	4.75e5	0.50	NO	1.01	10.244	33.961	33.95	0.989	0.989	192.39	98.5	0.770	
29	29 13C-1,2,3,6,7,8-HxCDF	5.50e5	0.50	NO	1.17	10.244	34.085	34.08	0.992	0.992	192.44	98.6	0.665	
30	30 13C-2,3,4,6,7,8-HxCDF	4.62e5	0.51	NO	1.02	10.244	34.659	34.65	1.009	1.009	184.70	94.6	0.760	
31	31 13C-1,2,3,7,8,9-HxCDF	3.76e5	0.52	NO	0.860	10.244	35.558	35.58	1.035	1.036	178.60	91.5	0.903	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-8B.qld

Last Altered: Friday, June 26, 2020 8:43:44 AM Pacific Daylight Time
Printed: Friday, June 26, 2020 8:49:52 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%RA	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.18e5	0.43	NO	0.774	10.244	37.307	37.35	1.086	1.087	167.67	85.9	0.564	
33	13C-1,2,3,4,7,8,9-HpCDF	1.97e5	0.45	NO	0.521	10.244	39.336	39.30	1.145	1.144	154.13	78.9	0.838	
34	13C-OCDF	4.67e5	0.86	NO	0.746	10.244	41.933	41.93	1.221	1.221	255.89	65.5	0.409	
35	37Cl-2,3,7,8-TCDD	3.13e5			1.04	10.244	26.538	26.50	1.028	1.026	83.083	106	0.0947	
36	13C-1,2,3,4-TCDD	7.09e5	0.79	NO	1.00	10.244	25.890	25.83	1.000	1.000	195.24	100	0.289	
37	13C-1,2,3,4-TCDF	8.20e5	0.80	NO	1.00	10.244	24.360	24.15	1.000	1.000	195.24	100	0.365	
38	13C-1,2,3,4,6,9-HxCDF	4.78e5	0.52	NO	1.00	10.244	34.420	34.35	1.000	1.000	195.24	100	0.776	
39	Total Tetra-Dioxins				0.888	10.244	24.620		0.000		0.26058		0.0707	0.261
40	Total Penta-Dioxins				0.908	10.244	29.960		0.000		0.00000		0.0592	0.155
41	Total Hexa-Dioxins				0.892	10.244	33.635		0.000		1.4653		0.186	1.47
42	Total Hepta-Dioxins				0.864	10.244	37.640		0.000		3.8139		0.298	3.81
43	Total Tetra-Furans				0.751	10.244	23.610		0.000		0.24173		0.0479	0.254
44	1st Func. Penta-Furans				0.893	10.244	27.580		0.000				0.0130	
45	Total Penta-Furans				0.893	10.244	29.275		0.000				0.0223	
46	Total Hexa-Furans				0.934	10.244	33.555		0.000				0.0476	
47	Total Hepta-Furans				0.873	10.244	37.835		0.000				0.0931	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-8B.qld

Last Altered: Friday, June 26, 2020 8:43:44 AM Pacific Daylight Time
 Printed: Friday, June 26, 2020 8:49:52 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
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Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Dioxins	24.31	4.955e3	8.799e3	4.321e2	5.613e2	0.77	NO	9.934e2	0.26058	0.26058	0.0707

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Dioxins	29.73	3.791e3	7.713e3	1.582e2	3.040e2	0.52	YES	0.000e0	0.00000	0.15467	0.0592

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	33.33	2.226e4	1.694e4	1.062e3	8.426e2	1.26	NO	1.904e3	1.0416	1.0416	0.186
2 Total Hexa-Dioxins	34.15	9.657e3	6.510e3	4.358e2	3.388e2	1.29	NO	7.746e2	0.42365	0.42365	0.186

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hepta-Dioxins	37.75	1.981e4	1.734e4	1.451e3	1.348e3	1.08	NO	2.799e3	2.3314	2.3314	0.298
2 1,2,3,4,6,7,8-HpCDD	38.77	1.343e4	1.276e4	8.903e2	8.893e2	1.00	NO	1.780e3	1.4825	1.4825	0.298

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Furans	20.32	1.882e3	1.520e3	3.670e1	2.786e1	1.32	YES	0.000e0	0.00000	0.012336	0.0479
2 Total Tetra-Furans	21.50	5.615e3	7.018e3	4.498e2	5.166e2	0.87	NO	9.663e2	0.24173	0.24173	0.0479

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1											

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-8B.qld

Last Altered: Friday, June 26, 2020 8:43:44 AM Pacific Daylight Time

Printed: Friday, June 26, 2020 8:49:52 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
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Hepta-Furans

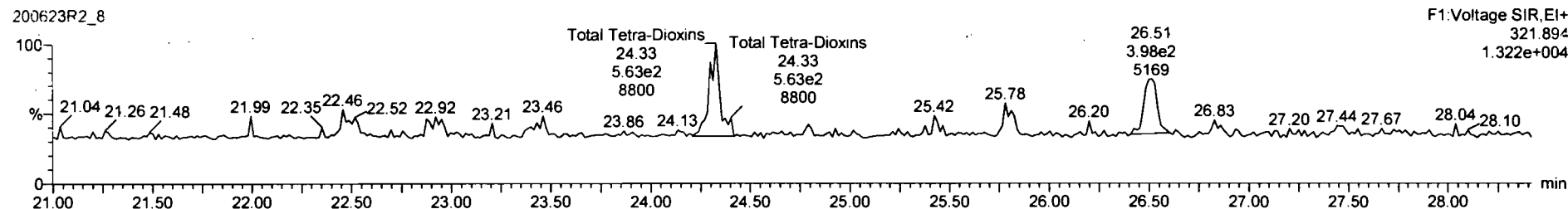
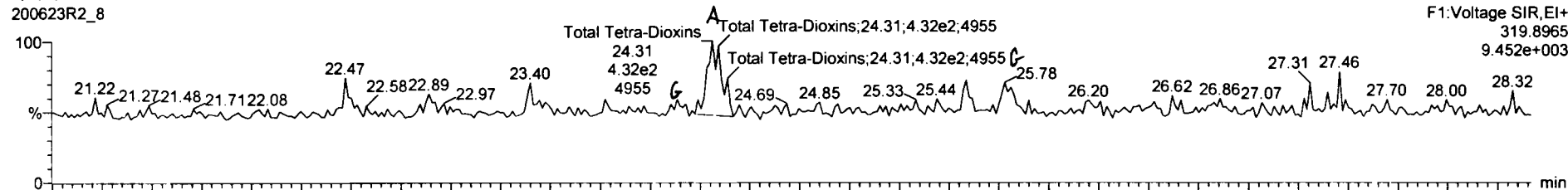
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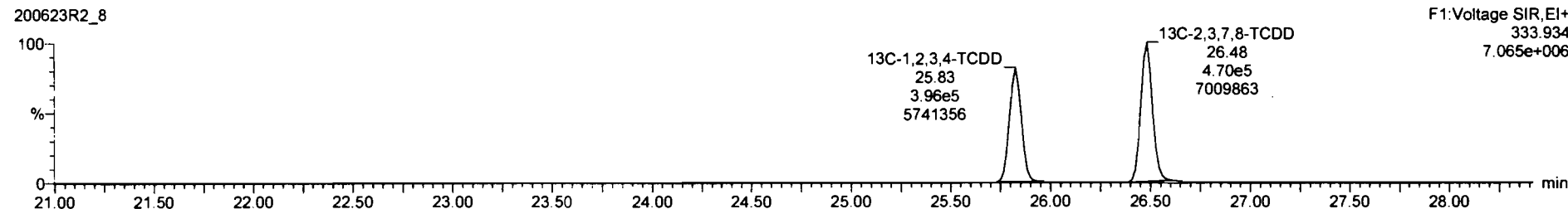
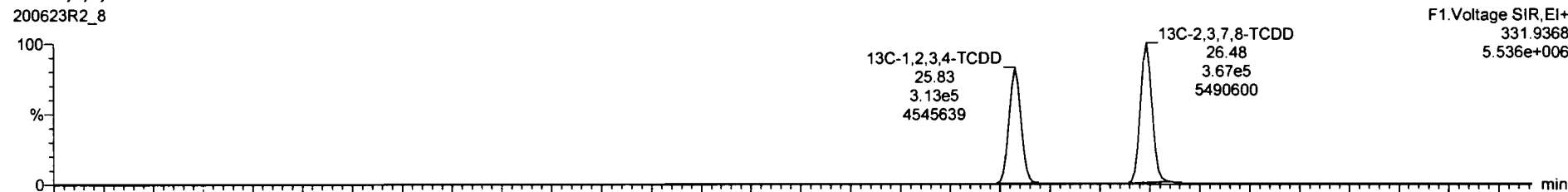
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

2,3,7,8-TCDD



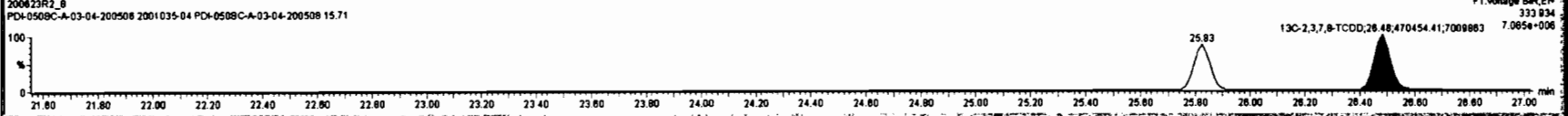
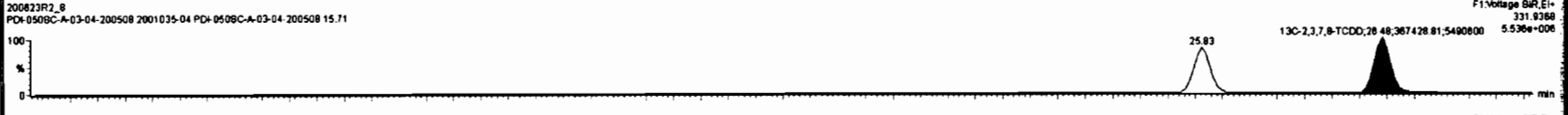
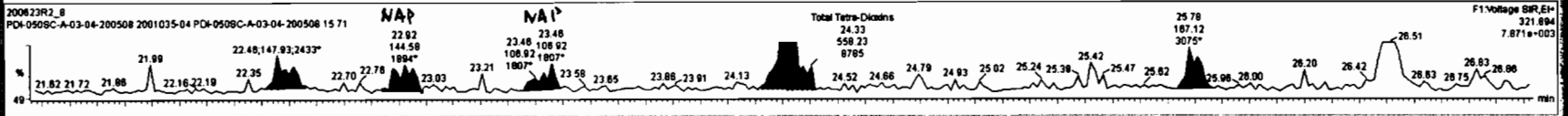
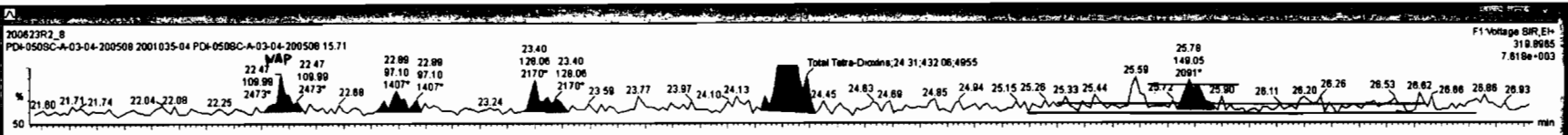
13C-2,3,7,8-TCDD





Respn	Area	Height	Area%	Height%	Area	Height	Area%	Height%	Area	Height	Area%	Height%
1	Total Penta-Chlorine		0.8081	10.244	29.95						0.0592	
2	Total Hexa-Chlorine		0.8623	10.244	33.83				1.08		0.159	1.45
3	Total Hepta-Chlorine		0.8638	10.244	37.84				3.76		0.288	3.76
4	Total Tetra-Furans		0.7510	10.244	28.81				0.241		0.0478	0.241
5	Total Furans		0.8625	10.244	27.58						0.0130	
6	Total Penta-Furans		0.8625	10.244	28.27						0.0223	
7	Total Hexa-Furans		0.8341	10.244	33.58						0.0478	
8	Total Hepta-Furans		0.8734	10.244	37.83						0.0631	

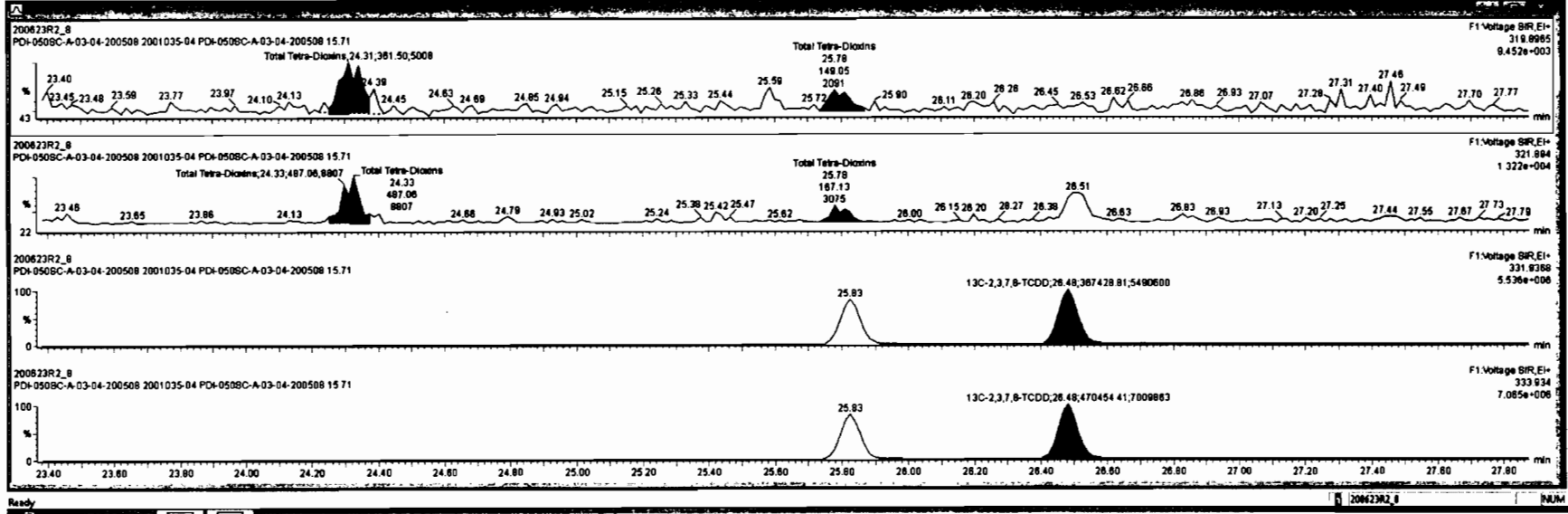
Name	RT	Int Resp	Int Resp	Area	Height	Area%	Height%
Total Tetra-Chlorine	24.31	4.321e2	5.582e2	0.77	NO	0.25877	0.25877





Item	Name	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
40	Total Penta-Dioxine		0.8091	10.244	29.98				0.0562		
41	Total Hexa-Dioxine		0.8923	10.244	33.83				1.06		1.45
42	Total Hepta-Dioxine		0.8530	10.244	37.84						0.215
43	Total Tetra-Furane		0.7510	10.244	23.81				0.241		0.0479 0.241
44	1st Func. Penta-Furane		0.8925	10.244	27.59						0.0130
45	Total Penta-Furane		0.8925	10.244	29.27						0.0223
46	Total Hexa-Furane		0.8341	10.244	33.96						0.0476
47	Total Hepta-Furane		0.8734	10.244	37.83						0.0631
48	PFK1										

Name	RT	Int Resp	Int Pump	RA	gdy	SMPC	Comp.
1 Total Tetra-Dioxine	24.31	3.615e2	4.871e2	0.74	NO	0.22258	0.22258
2 Total Tetra-Dioxine	25.78	1.491e2	1.671e2	0.89	YES	0.077587	0.00000



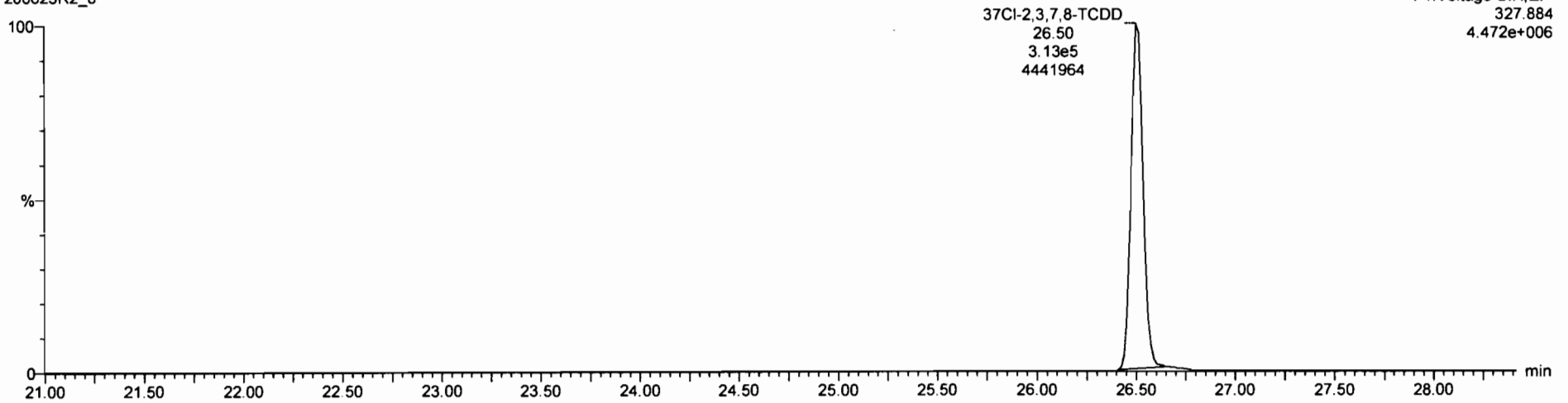
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

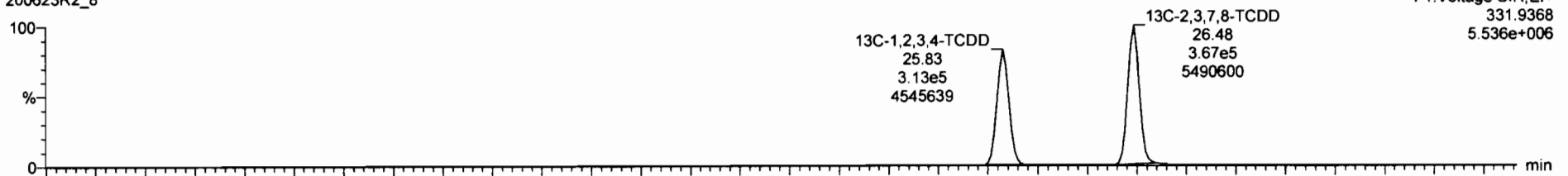
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200623R2_8

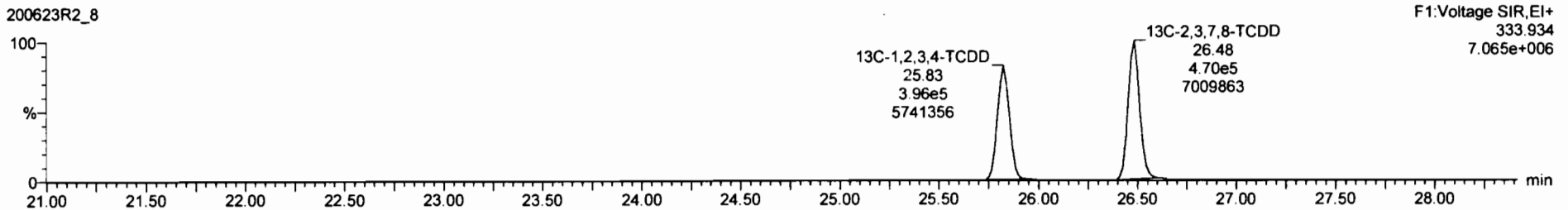


13C-1,2,3,4-TCDD

200623R2_8



200623R2_8



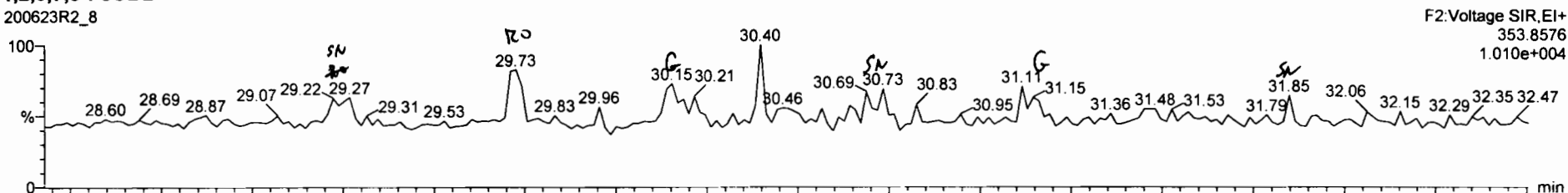
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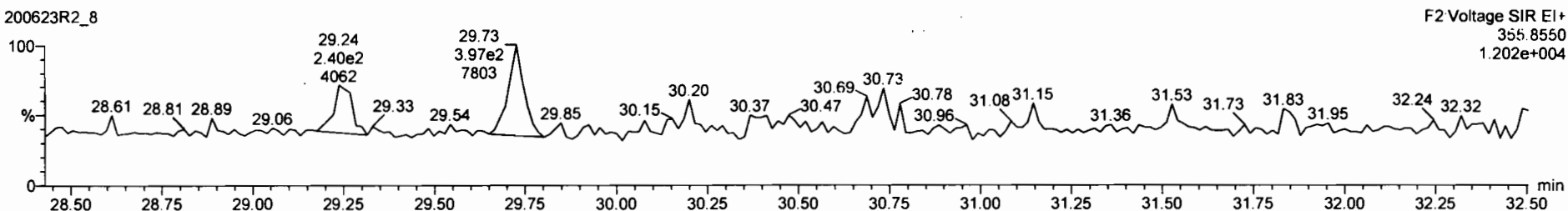
Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

1,2,3,7,8-PeCDD

200623R2_8

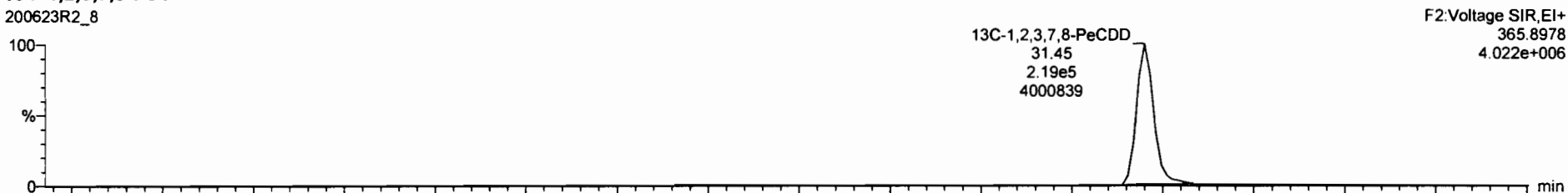


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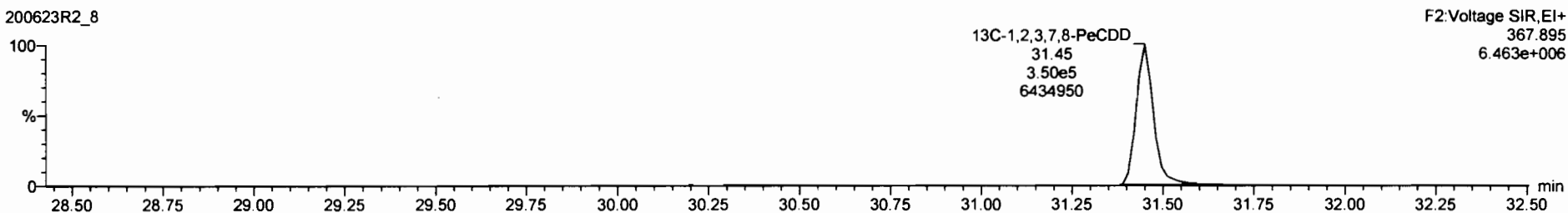


13C-1,2,3,7,8-PeCDD

200623R2_8



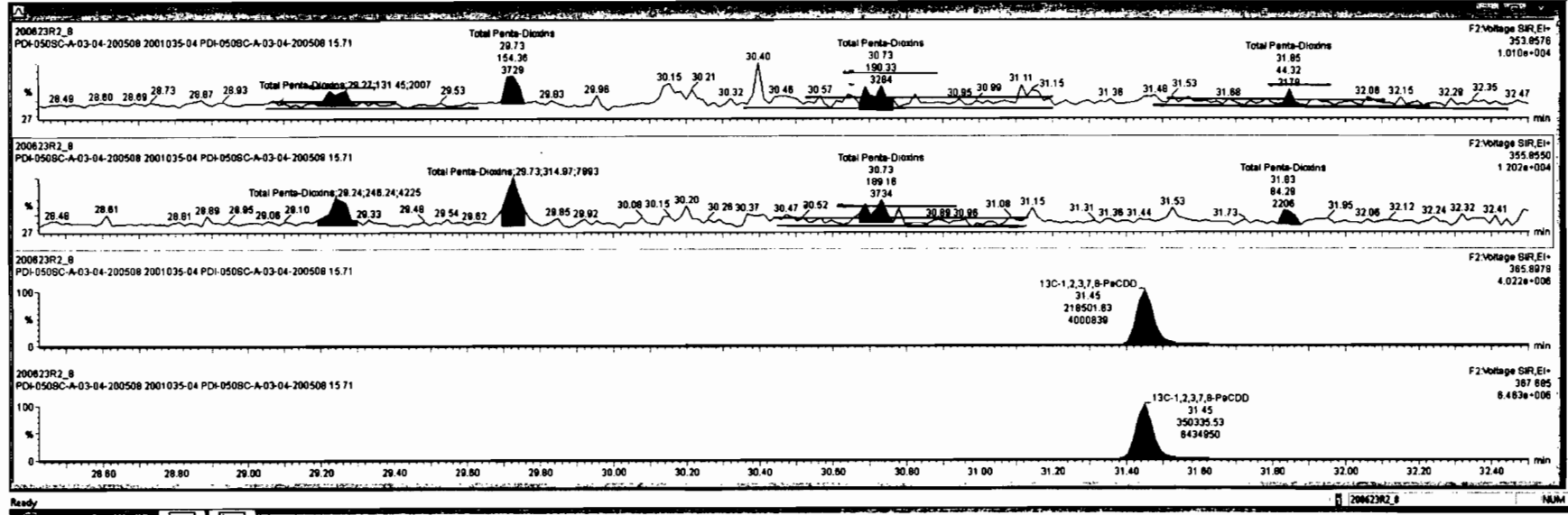
200623R2_8





Peak	Retention	Area	Height	Width	Integration	Integration	Integration	Integration	Integration	Integration
40	29.73	154.36	3729							
41	29.83	29.83	29.83							
42	29.98	29.98	29.98							
43	30.15	30.15	30.15							
44	30.21	30.21	30.21							
45	30.32	30.32	30.32							
46	30.46	30.46	30.46							
47	30.57	30.57	30.57							
48	30.73	30.73	30.73							
49	30.85	30.85	30.85							
50	30.99	30.99	30.99							
51	31.11	31.11	31.11							
52	31.15	31.15	31.15							
53	31.38	31.38	31.38							
54	31.48	31.48	31.48							
55	31.53	31.53	31.53							
56	31.88	31.88	31.88							
57	31.95	31.95	31.95							
58	32.08	32.08	32.08							
59	32.15	32.15	32.15							
60	32.28	32.28	32.28							
61	32.35	32.35	32.35							
62	32.47	32.47	32.47							

Peak	Retention	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
1	29.73	154.36	3729						
2	29.73	1544e2	3150e2	0.48	YES	0.15080	0.00000		
3	30.73	1.803e2	1.862e2	1.01	YES	0.11854	0.00000		
4	31.85	4.432e1	8.429e1	0.53	YES	0.043345	0.00000		



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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

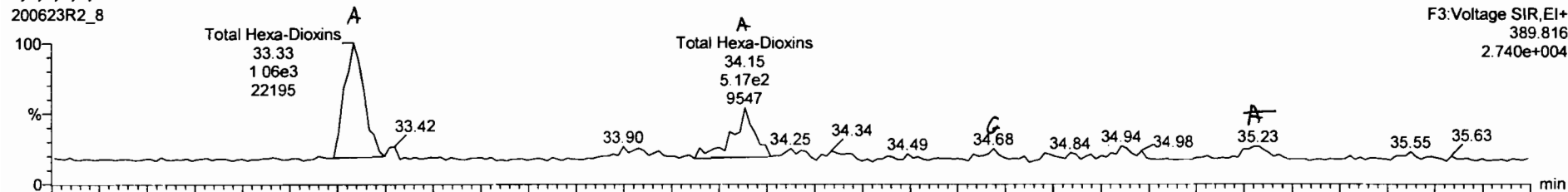
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Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

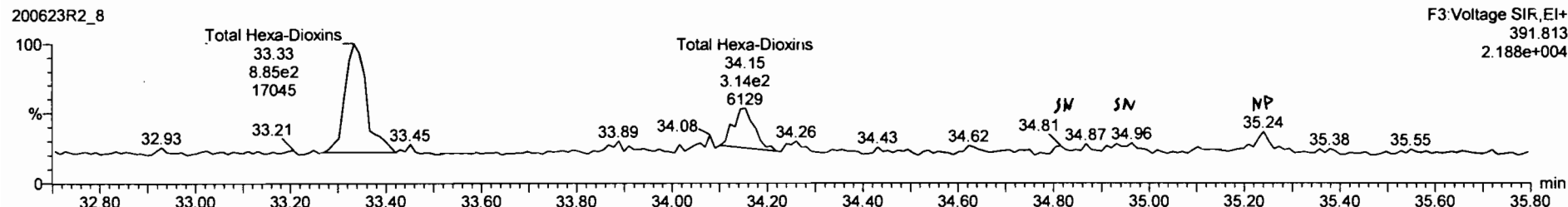
HN 06/25/2020

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

200623R2_8



200623R2_8

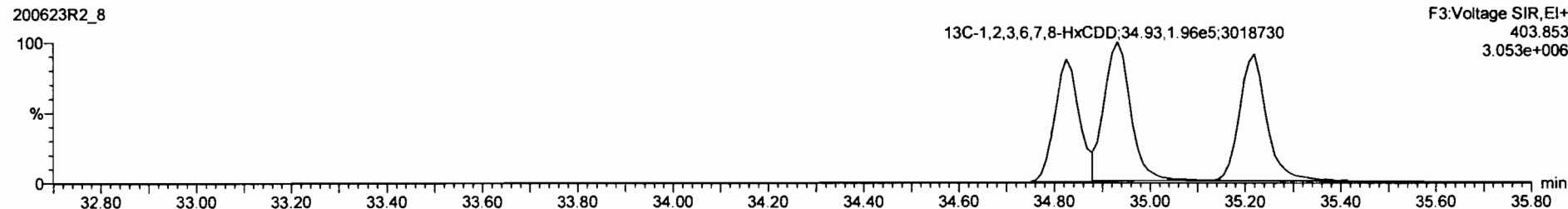


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200623R2_8

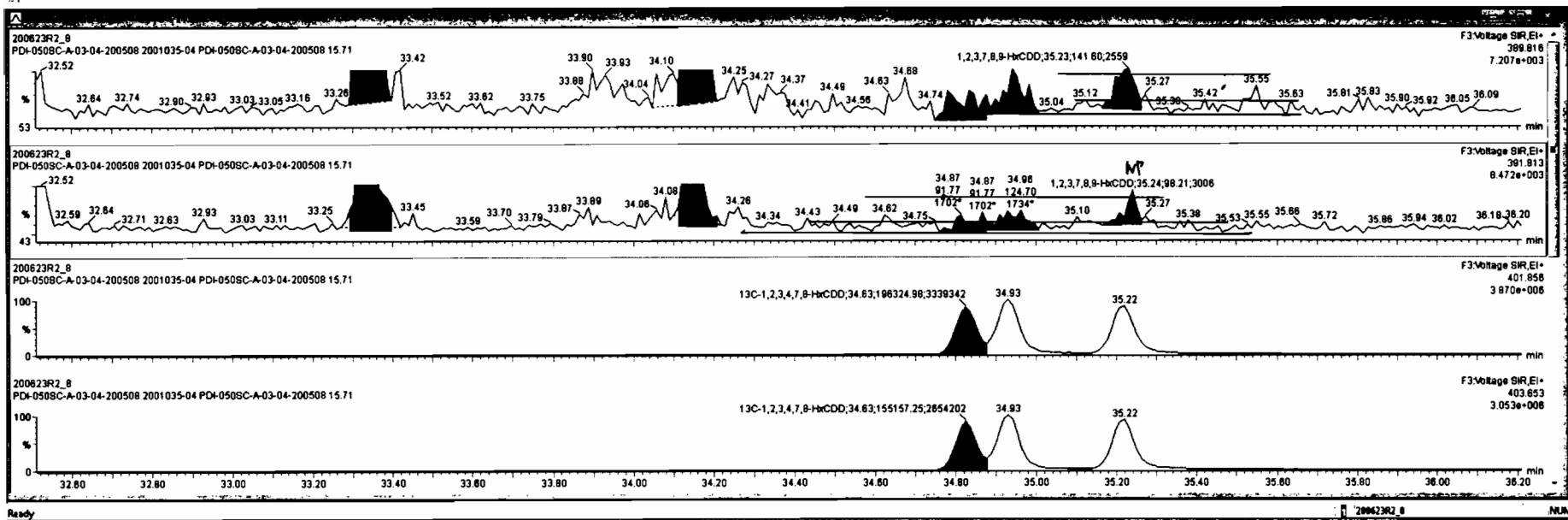


200623R2_8



Comp	Name	RT	Int Resp	Int Resp	RA	Int	Conc	Sto	OL	EMPC
38	Total Tetra-Dioxine	0.8983	10.244	24.82		0.223		0.0707	0.300	
40	Total Penta-Dioxine	0.9081	10.244	29.96			0.000	0.0582	0.151	
42	Total Hexa-Dioxine	0.8638	10.244	37.84					0.215	
43	Total Tetra-Furane	0.7510	10.244	23.61			0.241		0.0479	0.241
44	1st Func. Penta-Furane	0.6825	10.244	27.58					0.0130	
45	Total Penta-Furane	0.6825	10.244	28.27					0.0223	
46	Total Hexa-Furane	0.9341	10.244	33.58					0.0476	
47	Total Hepta-Furane	0.8734	10.244	37.83					0.0931	
49	DFX1									

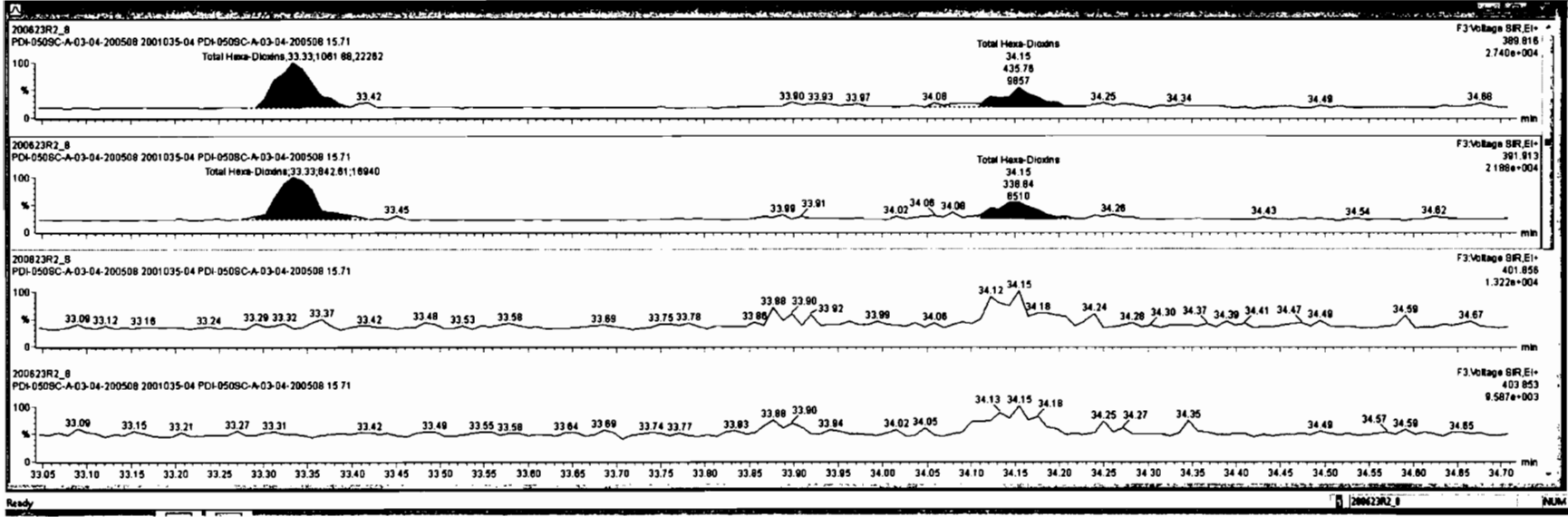
Comp	Name	RT	Int Resp	Int Resp	RA	Int	Conc
1	Total Hexa-Dioxine	34.15	4.229e2	3.810e2	1.17	NO	0.42870
2	Total Hexa-Dioxine	33.33	1.054e3	8.808e2	1.20	NO	1.0581
3	1,2,3,7,8,9-HxCDD	35.23	1.419e2	9.821e1	1.44	YES	0.11954





Item	Name	RT	Int. Range	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	
3	1,2,3,7,8-PeCDD				NO	0.8691	10.244	31.47												0.118
9	1,2,3,4,7,8-HxCDD				NO	1.0234	10.244	34.84												0.188
4	1,2,3,8,7,8-HxCDD				NO	0.8623	10.244	34.83												0.170
5	1,2,3,7,8-HxCDD				NO	0.8690	10.244	35.23												0.196
6	1,2,3,4,6,7,8-HxCDD	1.80e3	1.00		NO	0.8630	10.244	36.77	36.77	1.000	1.50									0.208
7	OCDD	1.15e4	1.03		YES	0.9136	10.244	41.75	41.75	1.000	12.1									0.230
8	2,3,7,8-TCDF				NO	0.7510	10.244	25.81												0.0479
9	1,2,3,7,8-PeCDF				NO	0.8625	10.244	30.19												0.0521
10	2,3,4,7,8-PeCDF				NO	0.9348	10.244	31.18												0.0492
11	1,2,3,4,7,8-HxCDF				NO	0.8845	10.244	33.95												0.0864

Item	Name	RT	Int. Range	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	Int. Range	PA	
1	Total Hexa-Chlorine	33.33	1.082e3	8.428e2	1.28	NO	1.0418	1.0418												
2	Total Hexa-Chlorine	34.15	4.359e2	3.388e2	1.28	NO	0.42395	0.42395												



Dataset: Untitled

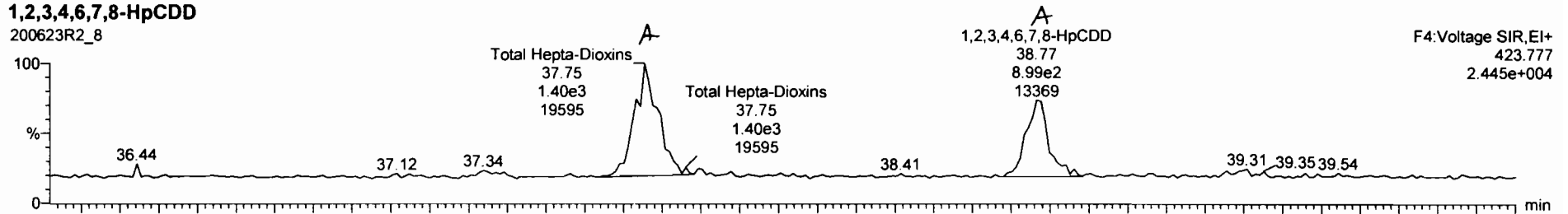
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

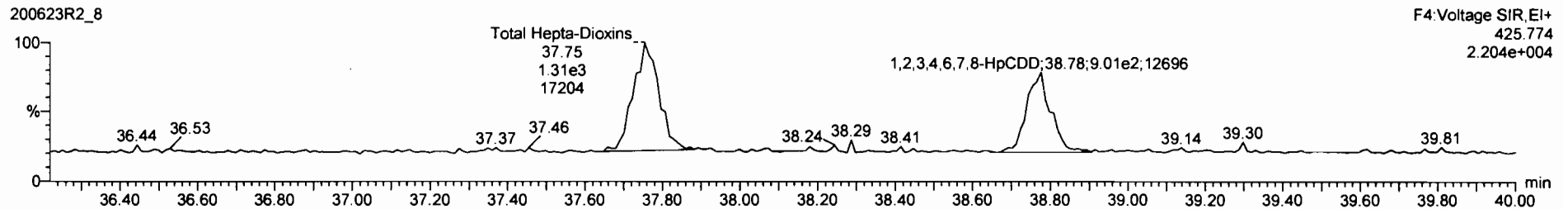
Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

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

200623R2_8

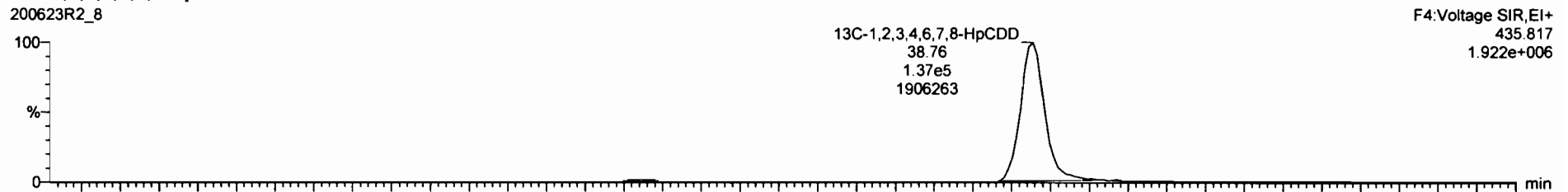


200623R2_8

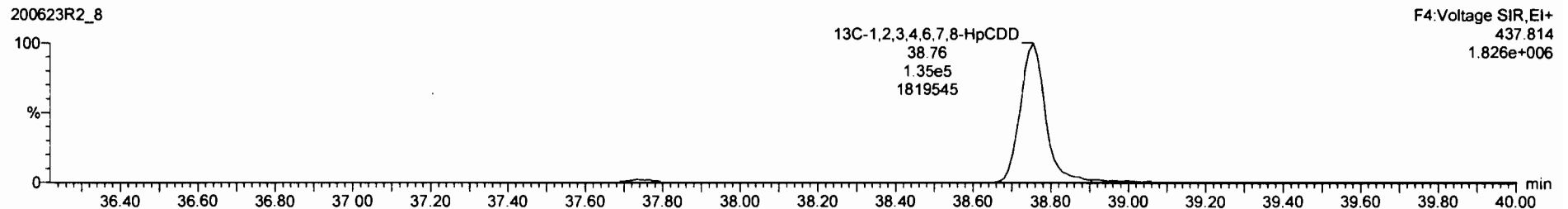


13C-1,2,3,4,6,7,8-HpCDD

200623R2_8



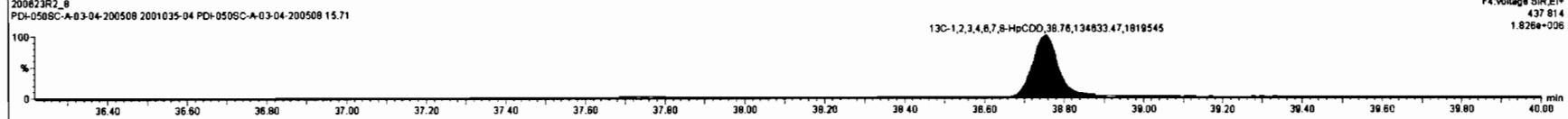
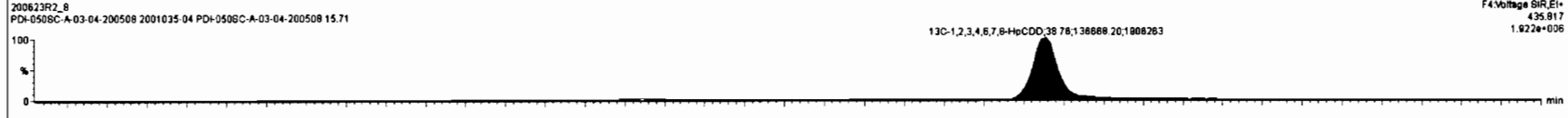
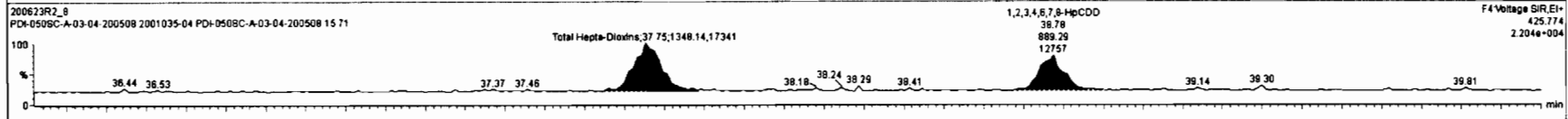
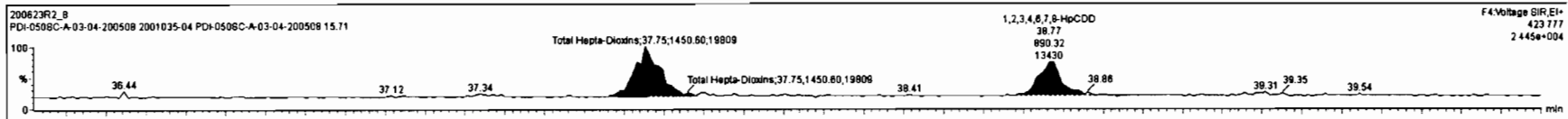
200623R2_8





RT	Name	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	
45	Total Tetra-Furans				0.7510	10.244	25.81		0.241	0.0479	0.241
46	1st Func. Penta-Furans				0.8925	10.244	27.58			0.0130	
48	Total Penta-Furans				0.8925	10.244	26.27			0.0223	
49	Total Hexa-Furans				0.9341	10.244	33.56			0.0478	
47	Total Hepta-Furans				0.8734	10.244	37.83			0.0921	
49	PFH1										
49	PFH2										
49	PFH3										
49	PFH4										

RT	Name	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
1	Total Hepta-Dioxins	37.75	1.451e3	1.348e3	1.08	NO	2.3214	2.3214		
2	1,2,3,4,6,7,8-HpCDD	38.77	8.903e2	8.893e2	1.00	NO	1.4825	1.4825		

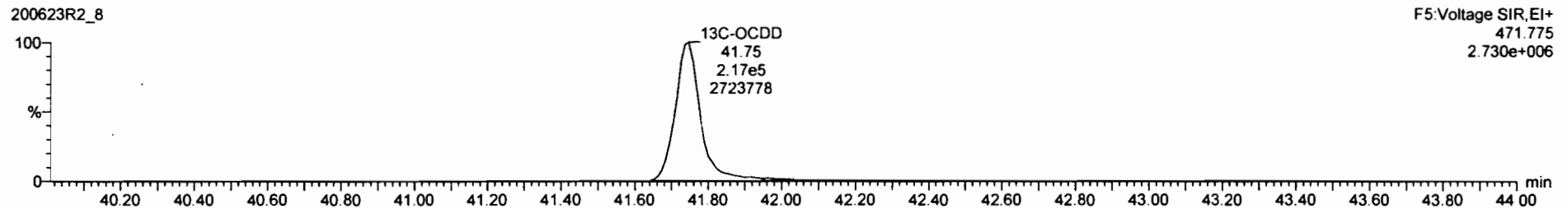
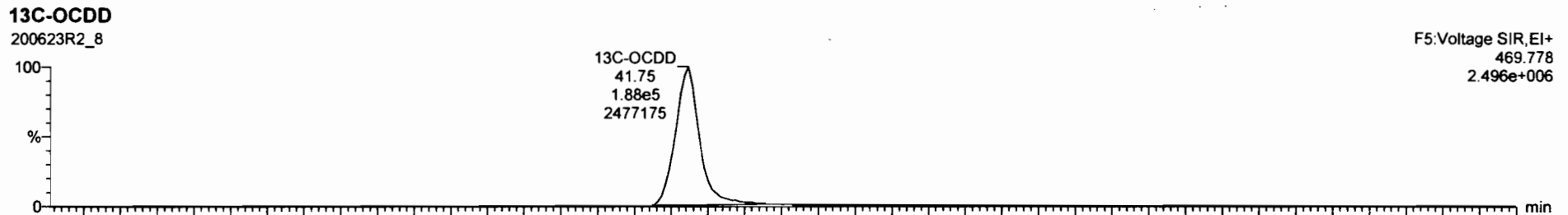
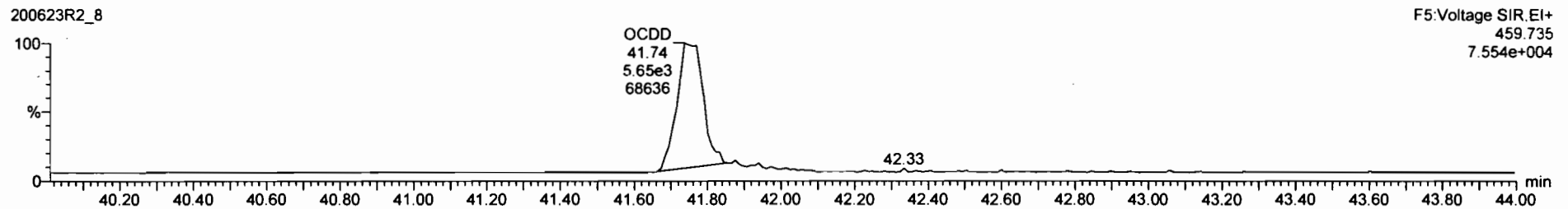
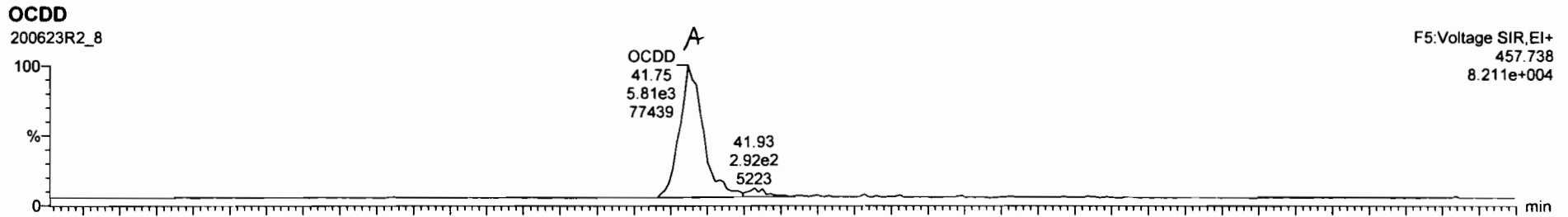


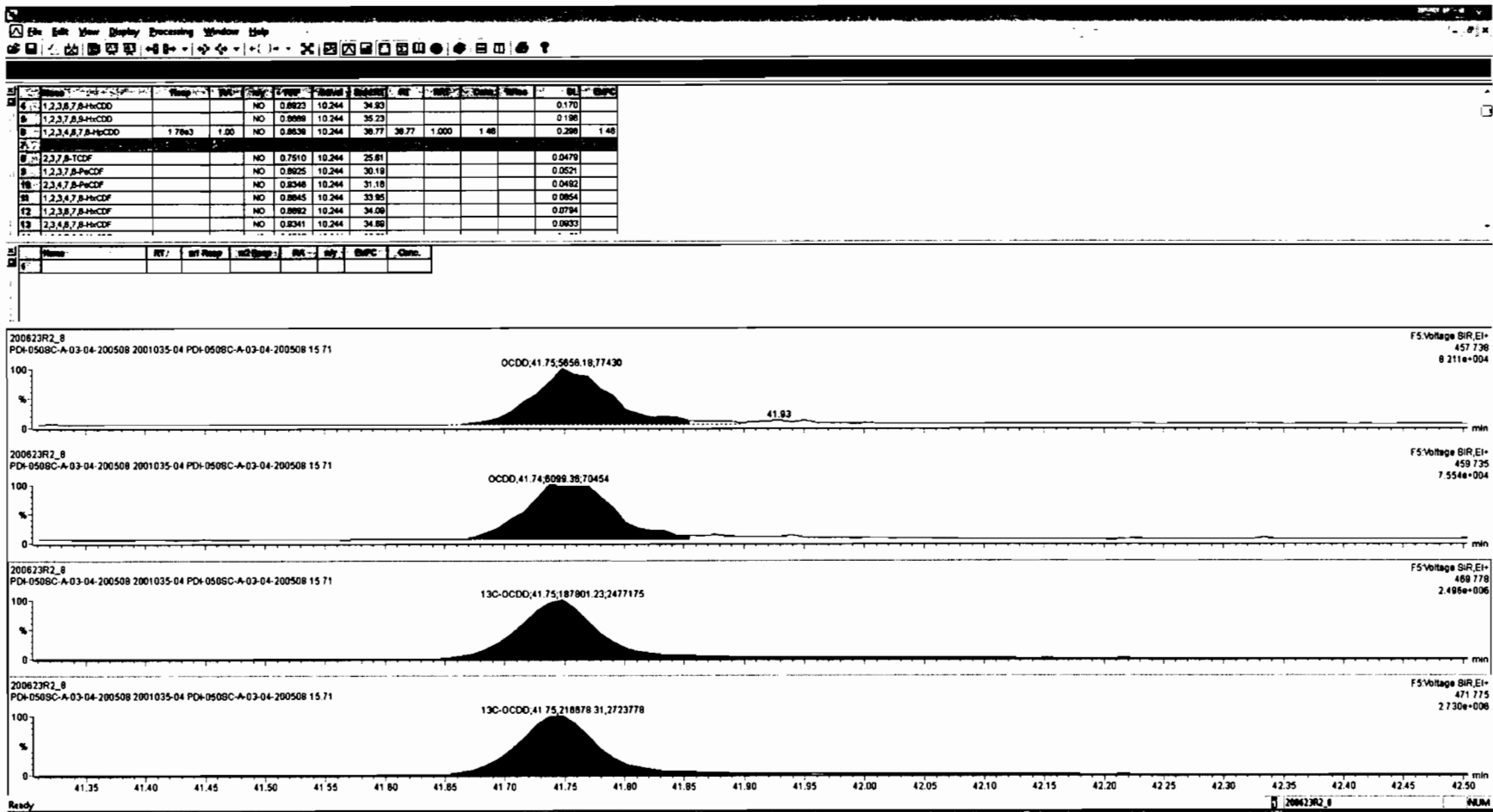
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508



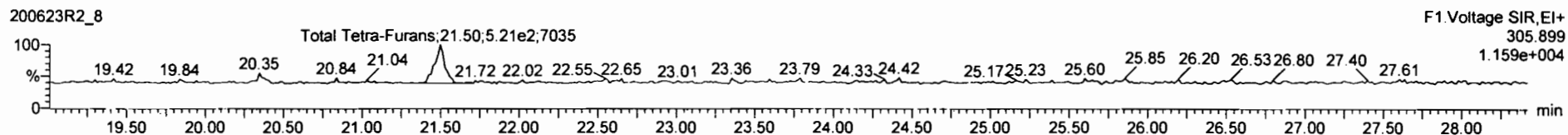
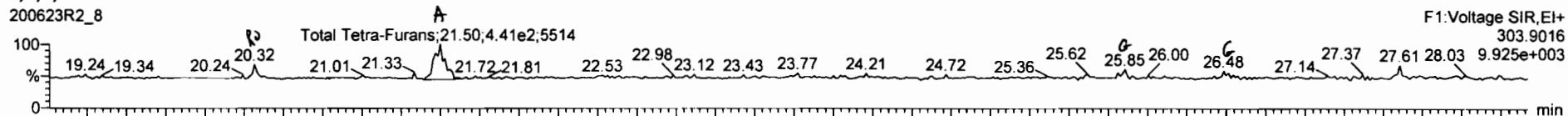


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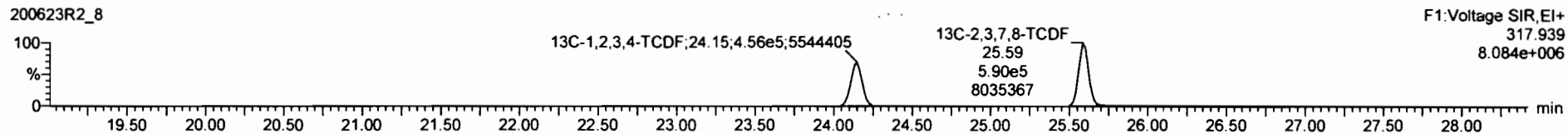
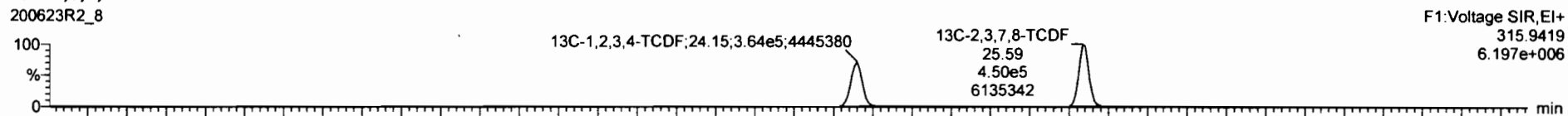
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

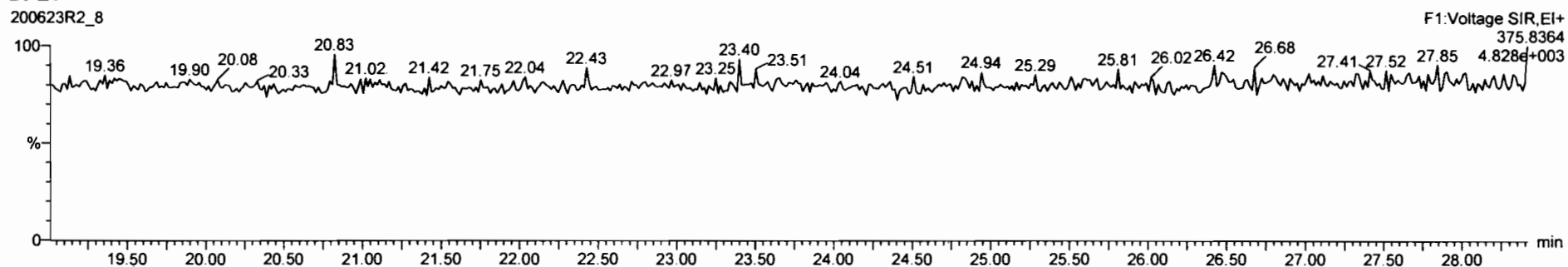
2,3,7,8-TCDF



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



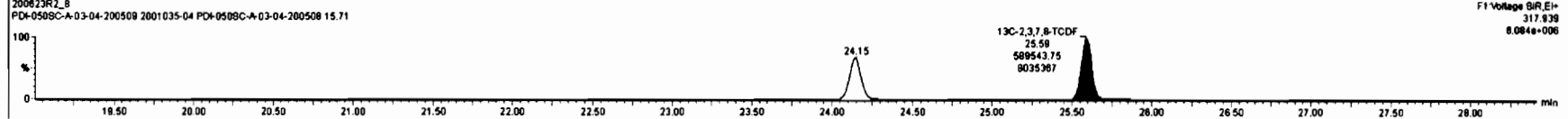
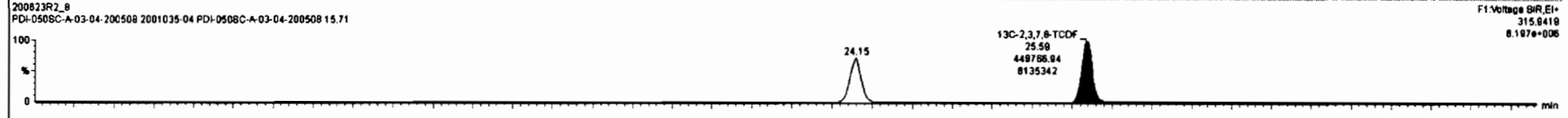
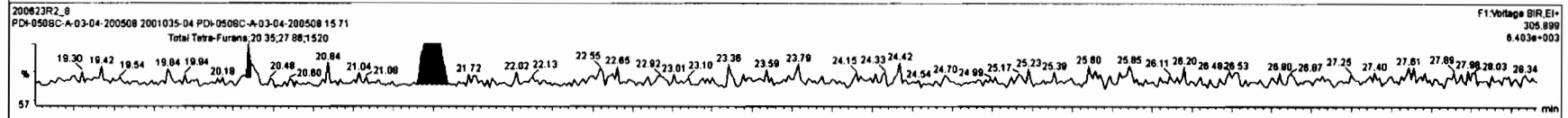
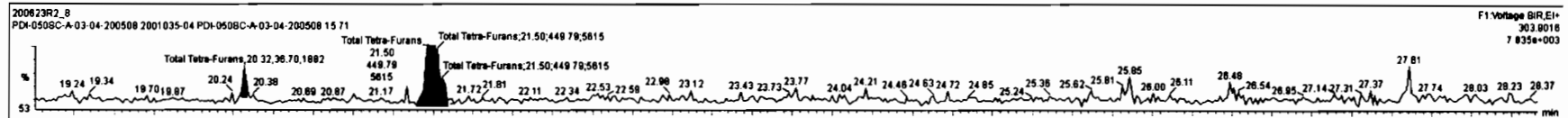
DPE1





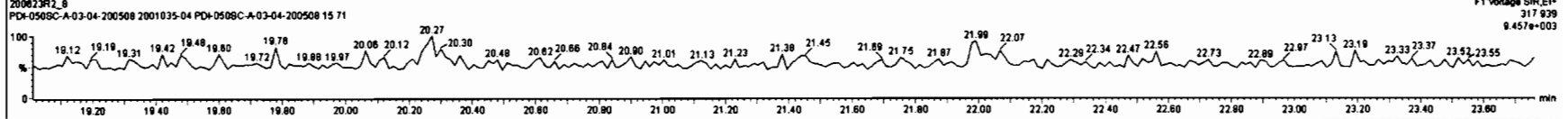
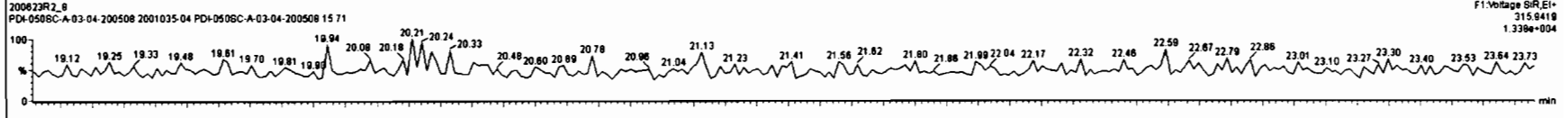
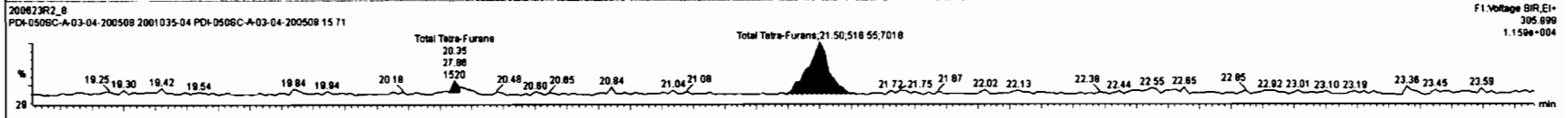
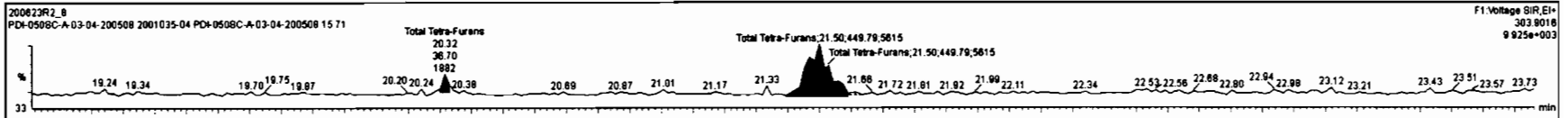
RT	Name	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
3.01	Total Hepta-Chlorine	0.0530	10.244	37.84				0.290	3.01	
21.50	Total Tetra-Furans	0.8925	10.244	27.99				0.0190		
21.50	Total Penta-Furans	0.8925	10.244	29.27				0.0223		
21.50	Total Hexa-Furans	0.8941	10.244	33.58				0.0476		
21.50	Total Hepta-Furans	0.8734	10.244	37.83				0.0831		
	PFK1									
	PFK2									
	PFK3									
	PFK4									

RT	Name	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
21.50	Total Tetra-Furans	20.32	3.870e1	2.785e1	1.32	YES	0.012338	0.00000		
21.50	Total Tetra-Furans	4.498e2	5.186e2	0.87	NO	0.24173	0.24173			



Peak	Name	Area	Height	Wt%	Ret	Wt%	Wt%	Wt%	Wt%
42	Total Hepta-Dioxin	0.8638	10.244	37.84		3.01		0.290	3.81
43	Total Hepta-Furans								
45	1st Func. Penta-Furans	0.8625	10.244	27.59				0.0130	
46	Total Penta-Furans	0.8625	10.244	29.27				0.0223	
47	Total Hexa-Furans	0.8341	10.244	33.56				0.0476	
47	Total Hepta-Furans	0.8734	10.244	37.83				0.0801	
48	PPH1								
49	PPH2								
50	PPH3								
51	PPH4								

Item	Ret	wt%	wt%	wt%	wt%	wt%	wt%
1	20.32	3.870e1	2.788e1	1.32	YES	0.012338	0.00000
2	21.50	4.488e2	5.166e2	0.87	NO	0.24173	0.24173



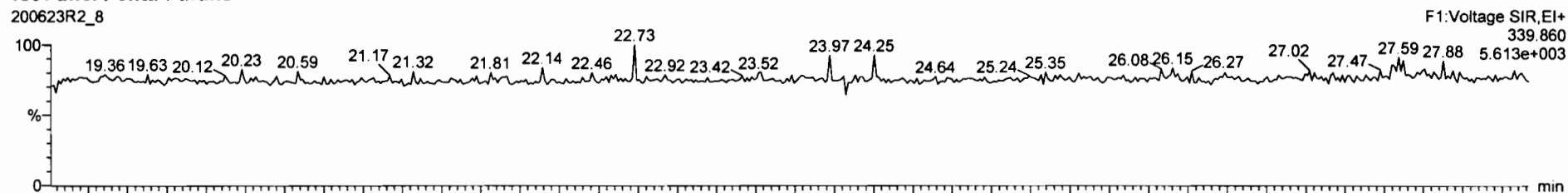
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

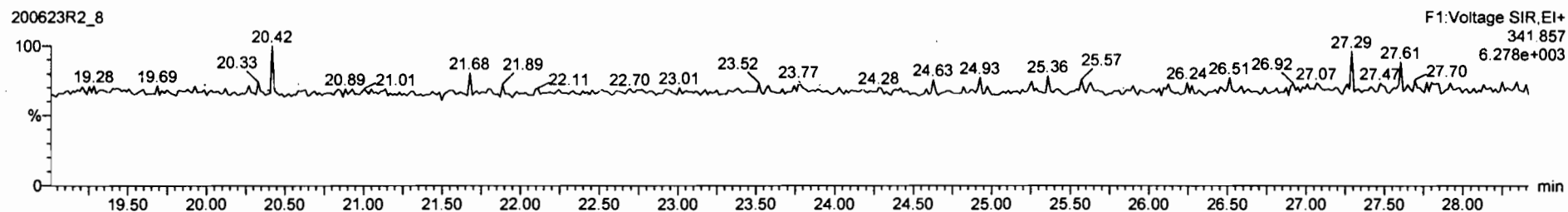
Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

1st Func. Penta-Furans

200623R2_8

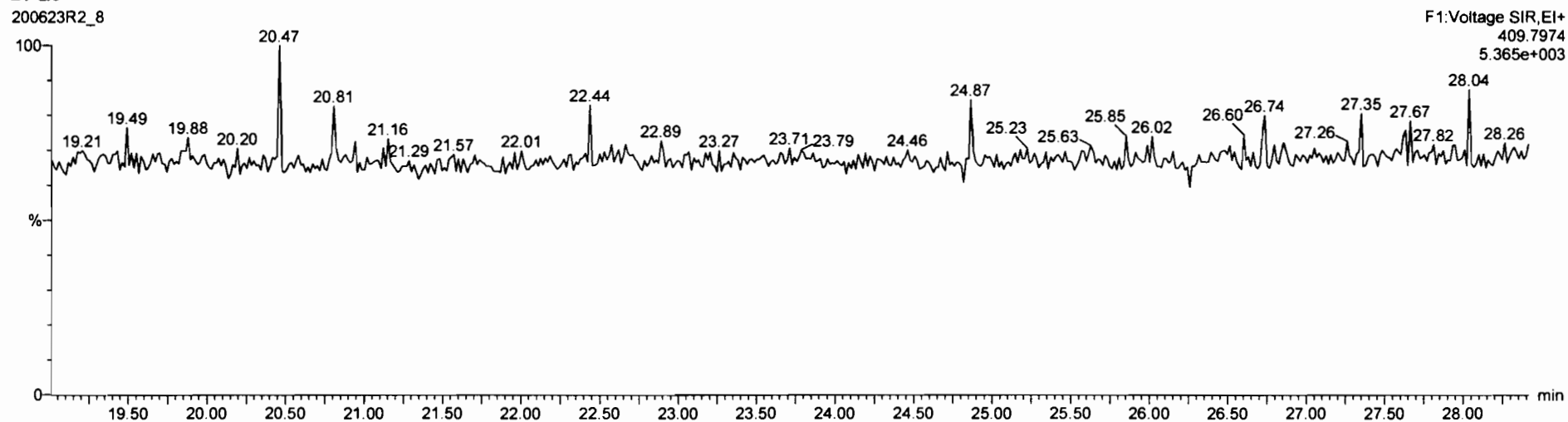


200623R2_8



DPE6

200623R2_8

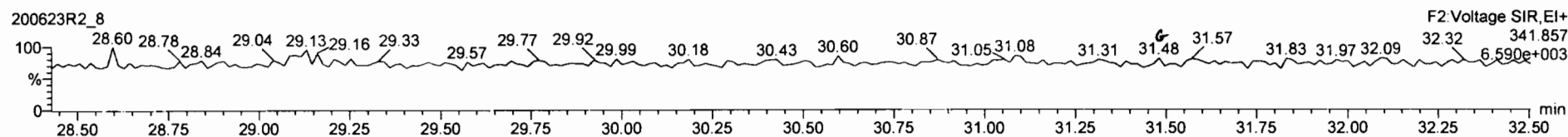
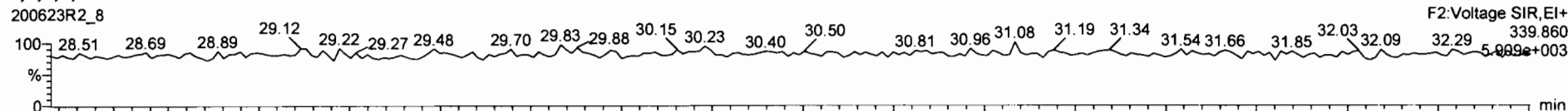


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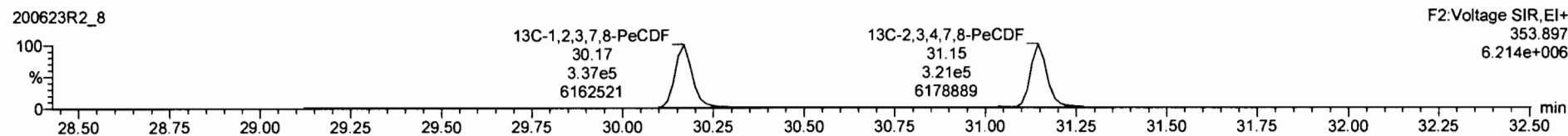
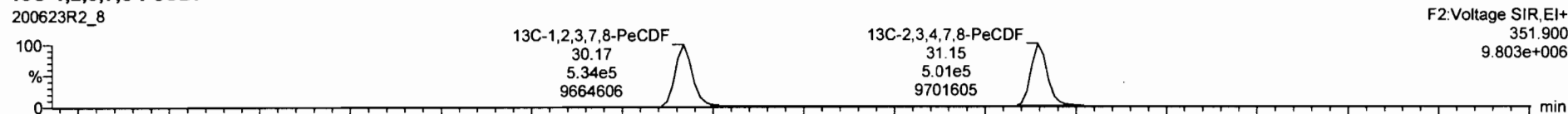
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

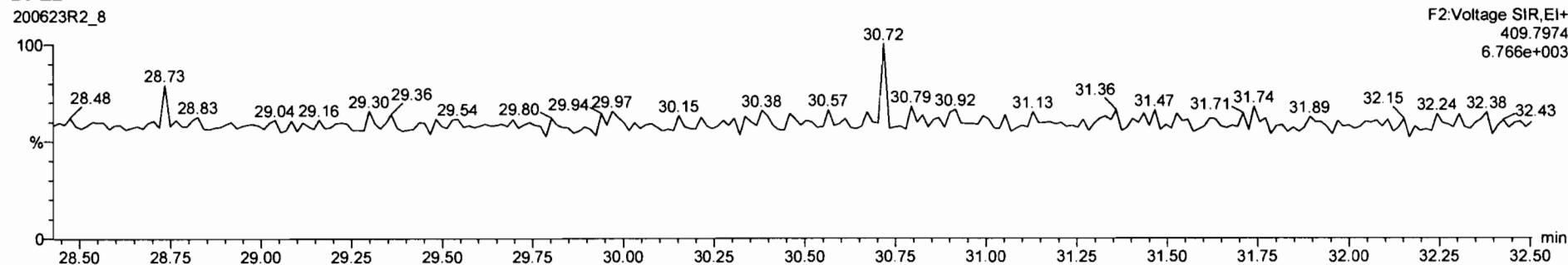
1,2,3,7,8-PeCDF



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



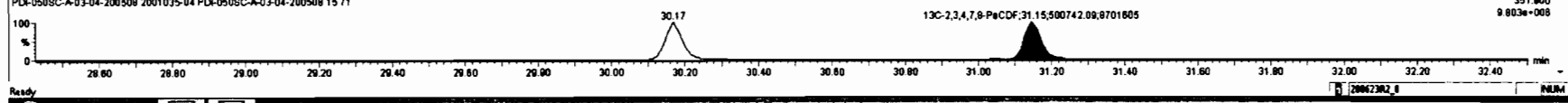
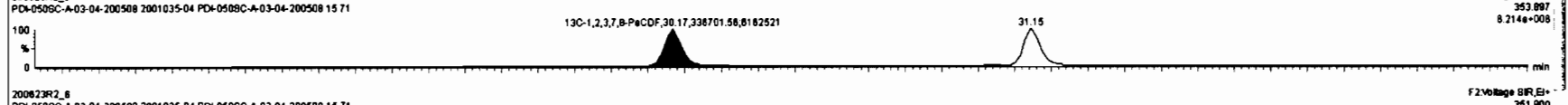
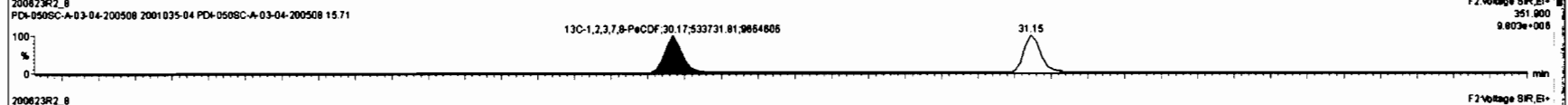
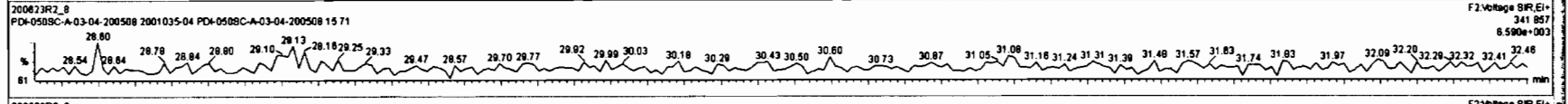
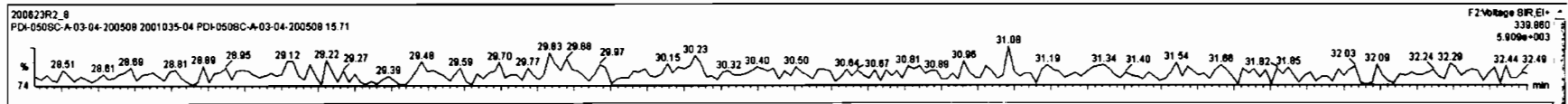
DPE2





Item	Name	RT	Area	Height	Width	Area%	Height%	Width%
45	Total Hepta-Dioxins	0.8830	10.244	37.84		3.81	0.298	3.81
46	Total Tetra-Furans	0.7510	10.244	25.81		0.242	0.0479	0.254
47	Total Func. Penta-Furans	0.8825	10.244	27.58			0.0130	
48	Total Hexa-Furans	0.9341	10.244	33.58			0.0476	
49	Total Hepta-Furans	0.8734	10.244	37.80			0.0631	
50	PFK1							
51	PFK2							
52	PFK3							
53	PFK4							

Name	RT	Int Resp	Ext Resp	Int Resp	Ext Resp	Int Resp	Ext Resp

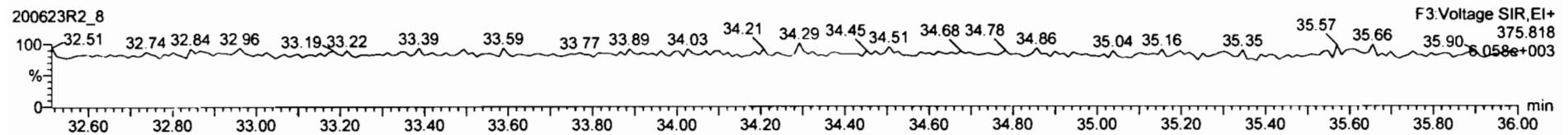
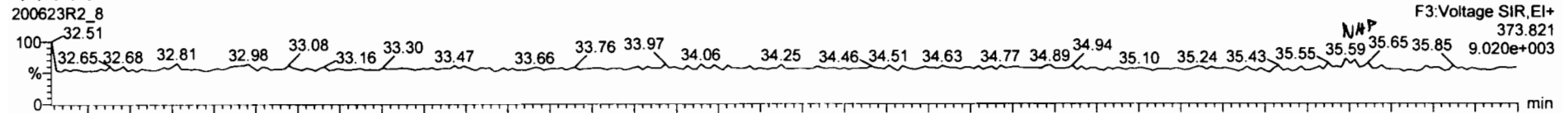


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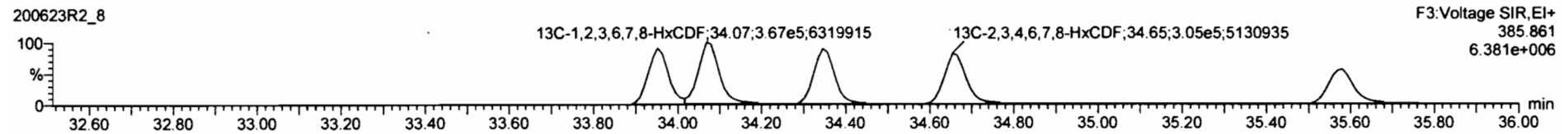
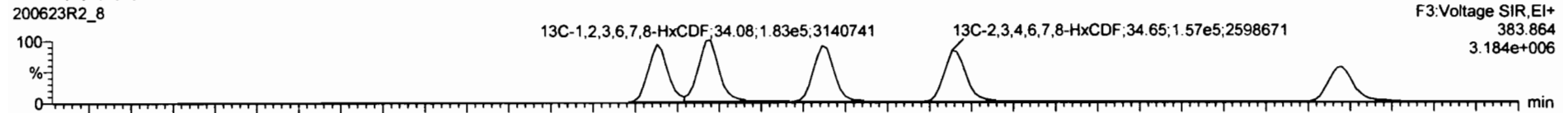
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

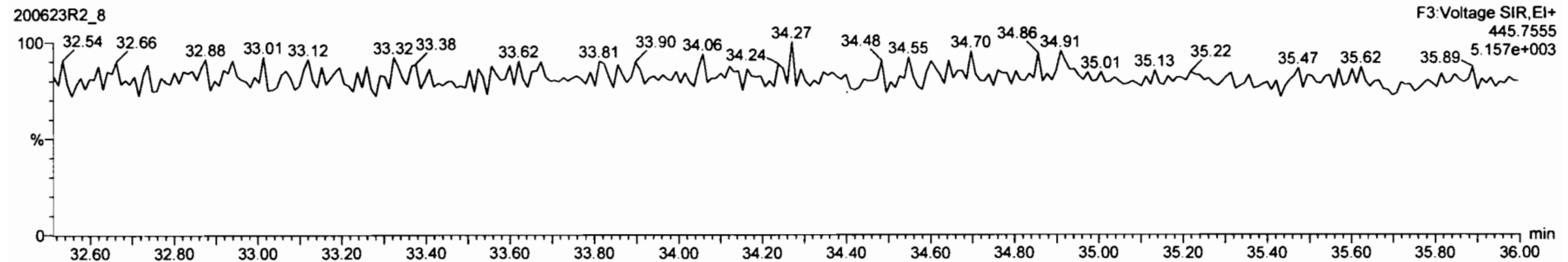
1,2,3,4,7,8-HxCDF

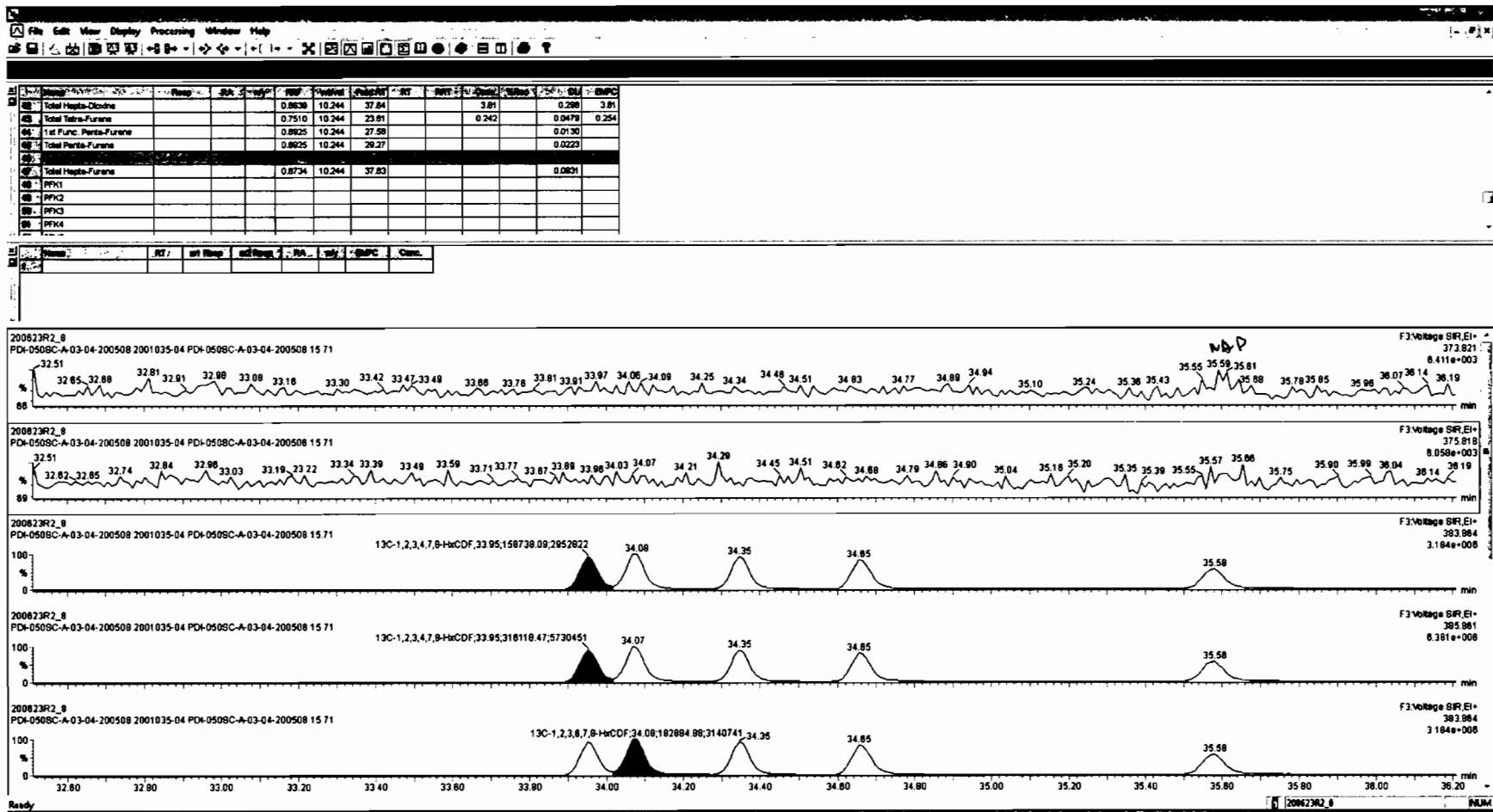


13C-1,2,3,4,7,8-HxCDF



DPE3





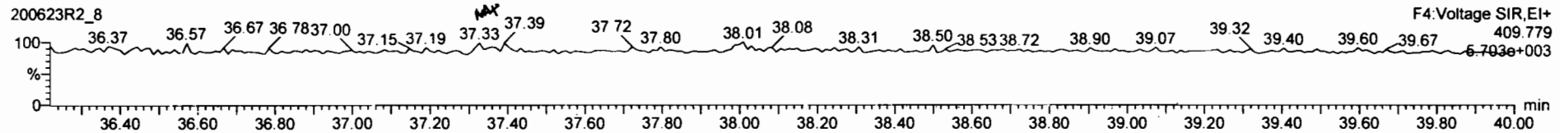
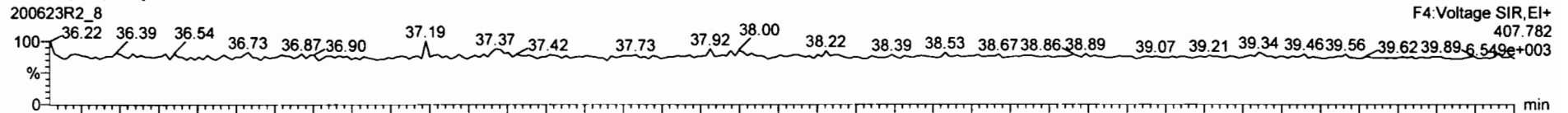
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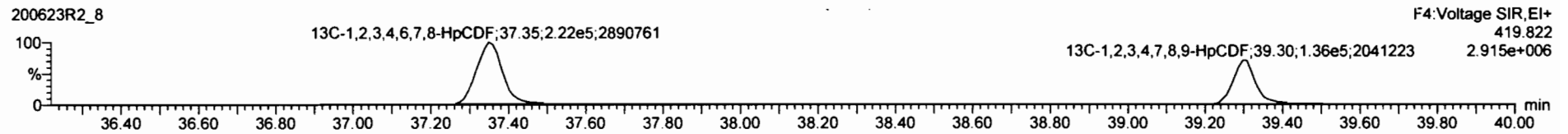
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508

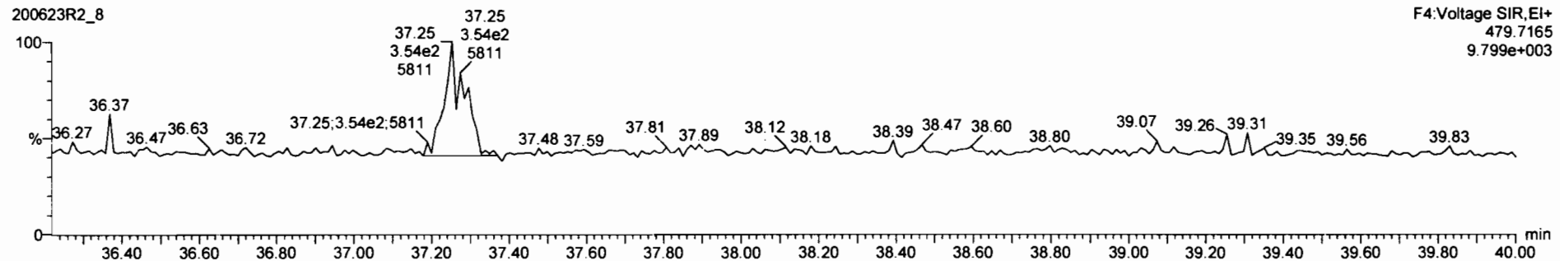
1,2,3,4,6,7,8-HpCDF



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



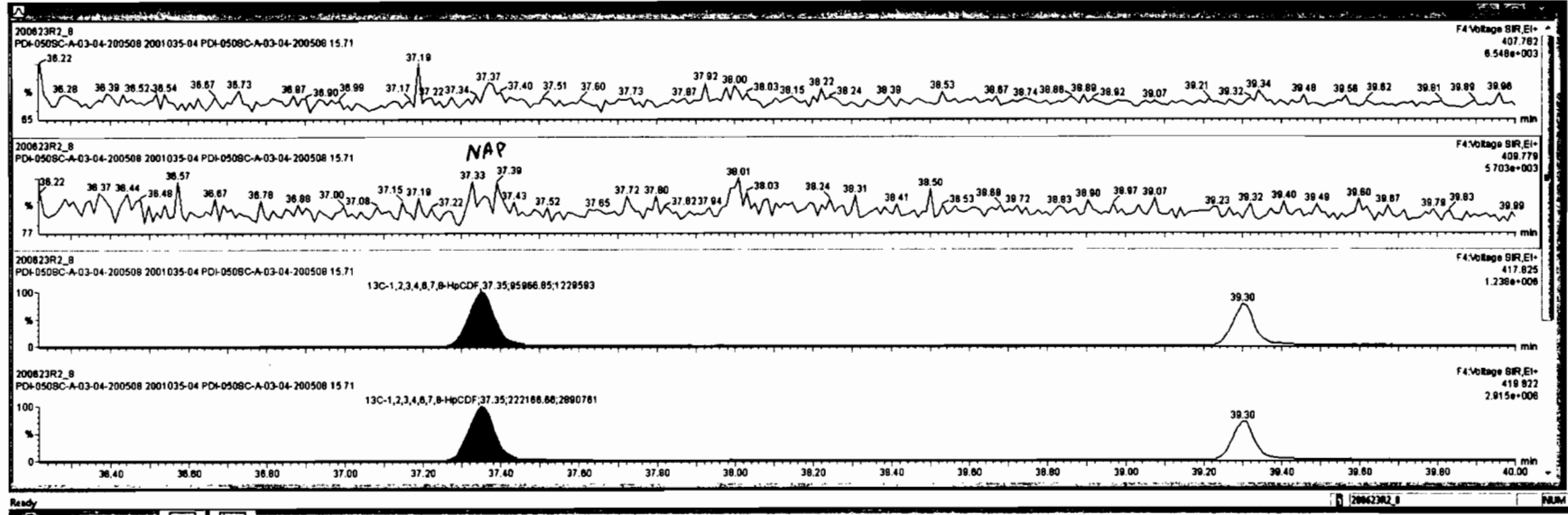
DPE4



File Edit View Display Processing Window Help

Col	Channel	Resp	Area	Height	Width	Retention	RT	Area	Height	Width	Retention
42	Total Hepta-Chlorine		0.8638	10.244	37.84			3.81			3.81
43	Total Tetra-Furane		0.7510	10.244	23.81			0.242			0.254
44	Total Penta-Furane		0.8625	10.244	27.58						0.0130
45	Total Hexa-Furane		0.8625	10.244	29.27						0.0223
46	Total Hepta-Furane		0.8341	10.244	33.58						0.0478
47	PPH1										
48	PPH2										
49	PPH3										
50	PPH4										

Name	RT	Area	Height	Width	Retention	Area	Height	Width	Retention

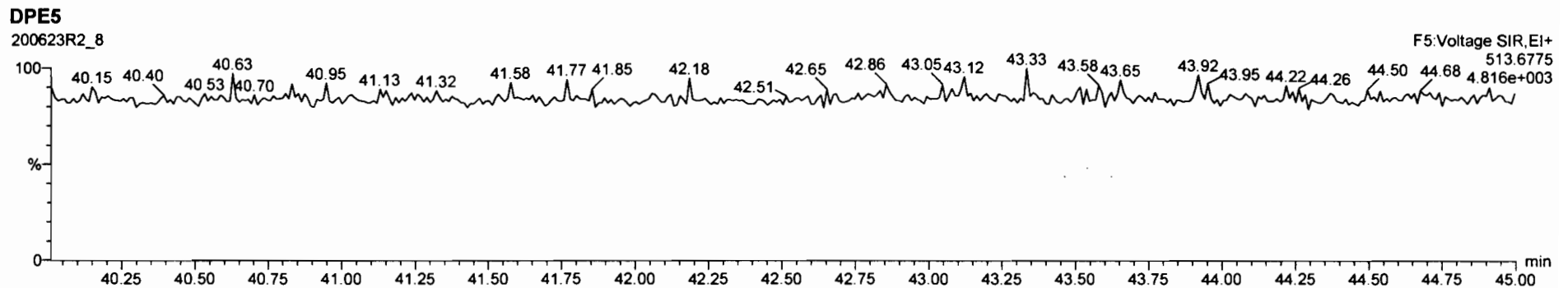
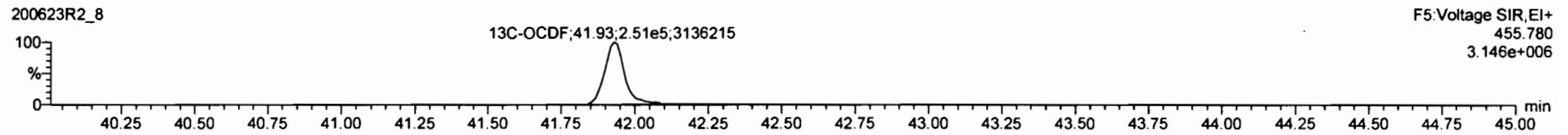
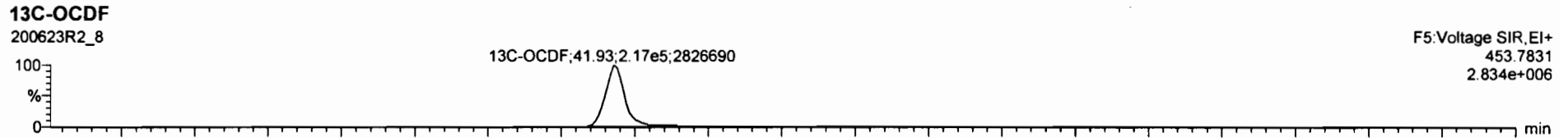
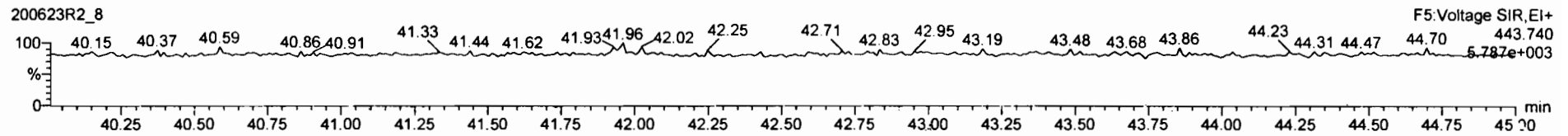
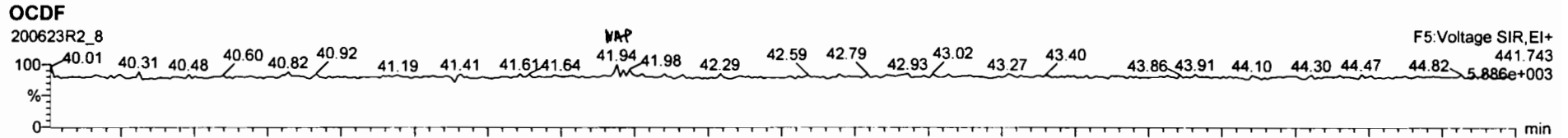


Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

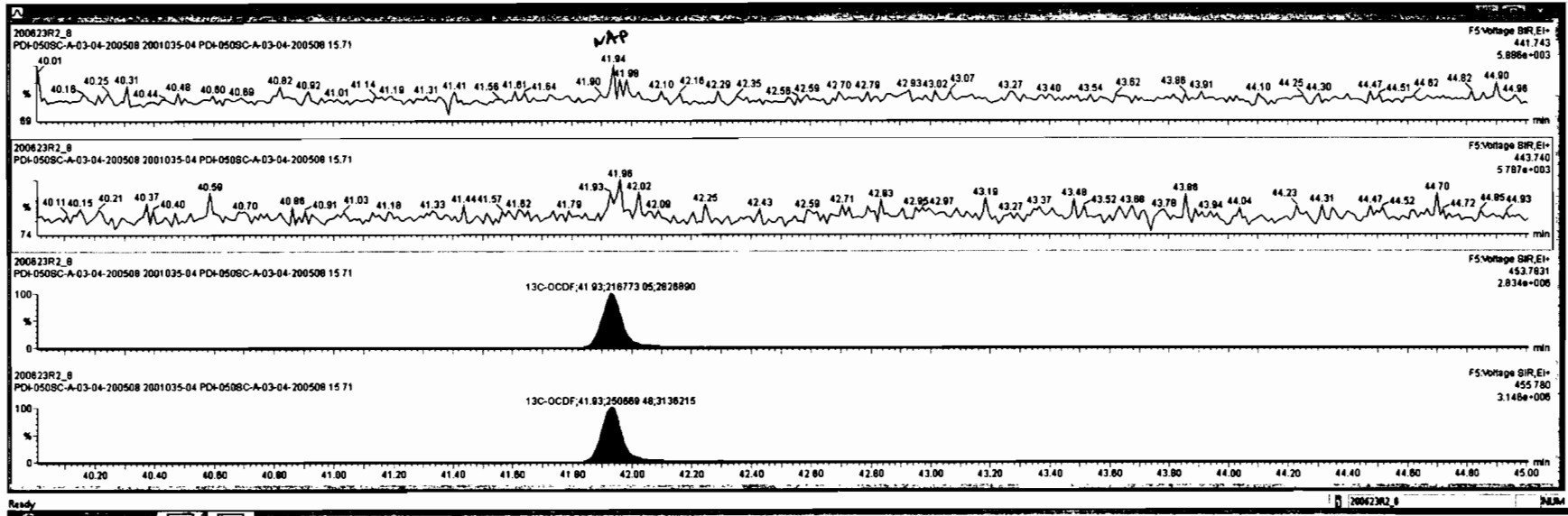
Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508





Sample	RT	Area	Height	Area%	Height%	Label	Area	Height	Area%	Height%	Label	
17												
18	13C-2,3,7,8-TCDD	8.39e5	0.78	NO	1.1963	10.244	28.51	28.48	1.028	1.98	102	0.250
19	13C-1,2,3,7,8-PeCDD	5.89e5	0.82	NO	0.8490	10.244	31.89	31.85	1.218	1.84	96.5	0.373
20	13C-1,2,3,4,7,8-PeCDD	3.51e5	1.27	NO	0.7790	10.244	34.83	34.83	1.014	1.84	96.3	0.837
21	13C-1,2,3,7,8,9-PeCDD	4.44e5	1.27	NO	1.0767	10.244	34.94	34.83	1.017	1.78	91.2	0.488
22	13C-1,2,3,7,8,9,10-PeCDD	4.05e5	1.25	NO	0.8027	10.244	35.21	35.22	1.025	1.83	93.8	0.549
23	13C-1,2,3,4,6,7,8-PeCDD	2.71e5	1.02	NO	0.8892	10.244	36.74	36.76	1.128	1.81	82.3	0.580
24	13C-OCDD	4.04e5	0.87	NO	0.8621	10.244	41.76	41.75	1.216	2.83	84.8	0.580
25	13C-2,3,7,8-TCDF	1.04e5	0.78	NO	1.0580	10.244	25.55	25.56	0.881	2.34	1.20	0.345
26	13C-1,2,3,7,8-PeCDF	8.70e5	1.69	NO	0.8280	10.244	30.08	30.17	1.188	247	1.27	0.815

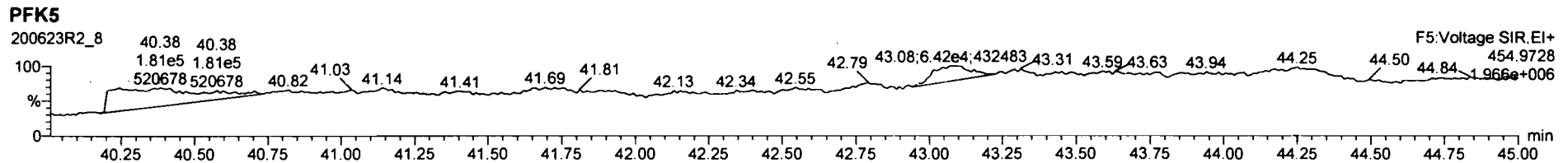
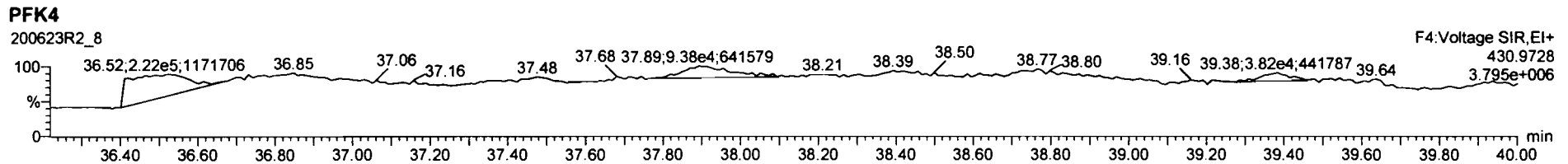
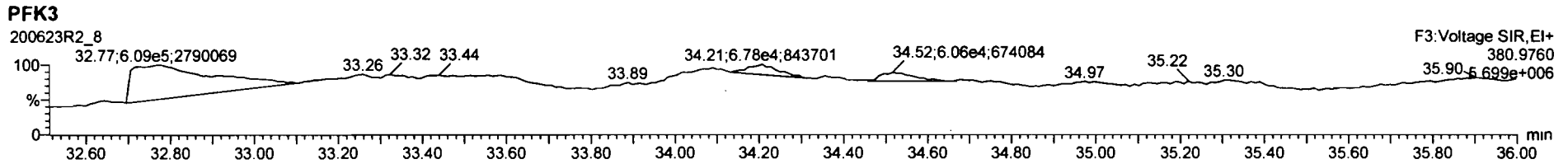
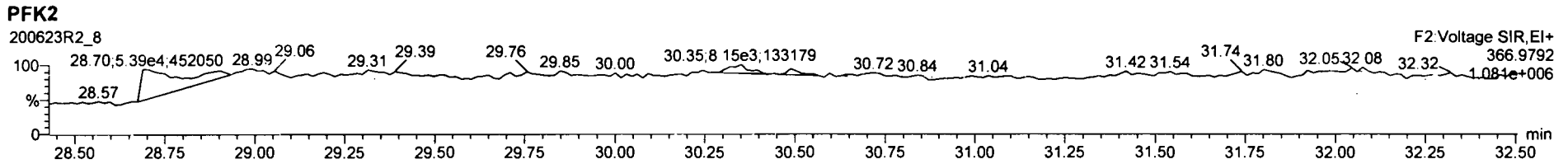
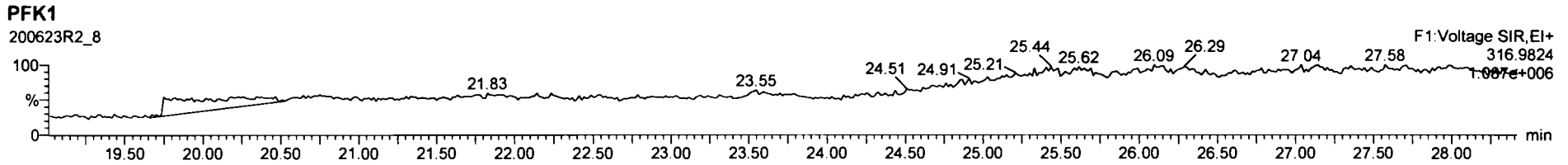
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Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_8, Date: 23-Jun-2020, Time: 20:28:51, ID: 2001035-04 PDI-050SC-A-03-04-200508 15.71, Description: PDI-050SC-A-03-04-200508



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-9.qld

Last Altered: Wednesday, June 24, 2020 12:29:16 PM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 12:45:38 PM Pacific Daylight Time

HW 06/24/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

C107/7/2020

Name: 200623R2_9, Date: 23-Jun-2020, Time: 21:15:03, ID: B0E0145-DUP1 Duplicate 15.62, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	FDL	EMPC
1	2,3,7,8-TCDD			NO	0.888	10.185	26.501		1.001				0.0649	
2	1,2,3,7,8-PeCDD			NO	0.908	10.185	31.457		1.001				0.0843	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.185	34.824		1.000				0.124	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.185	34.921		1.000				0.122	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.185	35.209		1.000				0.132	
6	1,2,3,4,6,7,8-HpCDD	8.94e2	1.05	NO	0.864	10.185	38.746	38.74	1.000	1.000	0.74340		0.247	0.743
7	OCDD	5.29e3	0.86	NO	0.914	10.185	41.727	41.74	1.000	1.000	5.4460		0.360	5.45
8	2,3,7,8-TCDF			NO	0.751	10.185	25.597		1.001				0.0371	
9	1,2,3,7,8-PeCDF			NO	0.893	10.185	30.175		1.001				0.0369	
10	2,3,4,7,8-PeCDF			NO	0.935	10.185	31.161		1.001				0.0338	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.185	33.941		1.000				0.0590	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.185	34.068		1.000				0.0491	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.185	34.679		1.001				0.0579	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.185	35.560		1.000				0.0888	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.185	37.376		1.001				0.134	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.185	39.288		1.000				0.171	
17	OCDF			NO	0.806	10.185	41.918		1.000				0.217	
18	13C-2,3,7,8-TCDD	9.17e5	0.79	NO	1.16	10.185	26.476	26.47	1.026	1.026	209.93	107	0.214	
19	13C-1,2,3,7,8-PeCDD	6.05e5	0.64	NO	0.849	10.185	31.656	31.43	1.227	1.219	188.62	96.1	0.317	
20	13C-1,2,3,4,7,8-HxCDD	3.69e5	1.26	NO	0.779	10.185	34.819	34.81	1.014	1.014	175.83	89.5	0.450	
21	13C-1,2,3,6,7,8-HxCDD	4.88e5	1.21	NO	1.02	10.185	34.932	34.92	1.017	1.017	178.01	90.7	0.345	
22	13C-1,2,3,7,8,9-HxCDD	4.33e5	1.17	NO	0.903	10.185	35.204	35.20	1.025	1.025	177.76	90.5	0.388	
23	13C-1,2,3,4,6,7,8-HpCDD	2.73e5	1.07	NO	0.689	10.185	38.726	38.73	1.128	1.128	147.20	75.0	0.556	
24	13C-OCDD	4.17e5	0.88	NO	0.652	10.185	41.748	41.73	1.216	1.215	237.45	60.5	0.418	
25	13C-2,3,7,8-TCDF	1.12e6	0.79	NO	1.06	10.185	25.519	25.57	0.989	0.991	233.02	119	0.354	
26	13C-1,2,3,7,8-PeCDF	9.10e5	1.56	NO	0.838	10.185	30.041	30.15	1.165	1.169	238.74	122	0.810	
27	13C-2,3,4,7,8-PeCDF	8.81e5	1.58	NO	0.817	10.185	30.993	31.13	1.202	1.207	237.09	121	0.831	
28	13C-1,2,3,4,7,8-HxCDF	4.82e5	0.51	NO	1.01	10.185	33.950	33.94	0.989	0.989	177.41	90.3	0.799	
29	13C-1,2,3,6,7,8-HxCDF	5.69e5	0.51	NO	1.17	10.185	34.074	34.06	0.992	0.992	180.94	92.1	0.690	
30	13C-2,3,4,6,7,8-HxCDF	4.82e5	0.51	NO	1.02	10.185	34.647	34.64	1.009	1.009	175.12	89.2	0.788	
31	13C-1,2,3,7,8,9-HxCDF	4.10e5	0.52	NO	0.860	10.185	35.547	35.56	1.035	1.036	176.85	90.1	0.937	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-9.qld

Last Altered: Wednesday, June 24, 2020 12:29:16 PM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 12:45:38 PM Pacific Daylight Time

Name: 200623R2_9, Date: 23-Jun-2020, Time: 21:15:03, ID: B0E0145-DUP1 Duplicate 15.62, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%RSD	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.54e5	0.43	NO	0.774	10.185	37.295	37.34	1.086	1.087	169.47	86.3	0.539	
33	13C-1,2,3,4,7,8,9-HpCDF	2.03e5	0.43	NO	0.521	10.185	39.324	39.29	1.145	1.144	144.25	73.5	0.802	
34	13C-OCDF	4.99e5	0.87	NO	0.746	10.185	41.920	41.92	1.221	1.221	248.25	63.2	0.463	
35	37Cl-2,3,7,8-TCDD	3.20e5			1.04	10.185	26.507	26.48	1.028	1.027	81.762	104	0.0461	
36	13C-1,2,3,4-TCDD	7.42e5	0.80	NO	1.00	10.185	25.890	25.80	1.000	1.000	196.37	100	0.248	
37	13C-1,2,3,4-TCDF	8.93e5	0.79	NO	1.00	10.185	24.360	24.12	1.000	1.000	196.37	100	0.374	
38	13C-1,2,3,4,6,9-HxCDF	5.29e5	0.51	NO	1.00	10.185	34.420	34.33	1.000	1.000	196.37	100	0.805	
39	Total Tetra-Dioxins				0.888	10.185	24.620		0.000		0.23250		0.0649	0.312
40	Total Penta-Dioxins				0.908	10.185	29.960		0.000		0.00000		0.0367	0.244
41	Total Hexa-Dioxins				0.892	10.185	33.635		0.000		0.68585		0.131	0.909
42	Total Hepta-Dioxins				0.864	10.185	37.640		0.000		0.74340		0.247	1.73
43	Total Tetra-Furans				0.751	10.185	23.610		0.000		0.23586		0.0371	0.259
44	1st Func. Penta-Furans				0.893	10.185	27.580		0.000				0.00932	
45	Total Penta-Furans				0.893	10.185	29.275		0.000				0.0180	
46	Total Hexa-Furans				0.934	10.185	33.555		0.000				0.0330	
47	Total Hepta-Furans				0.873	10.185	37.835		0.000				0.0784	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-9.qld

Last Altered: Wednesday, June 24, 2020 12:29:16 PM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 12:45:38 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_9, Date: 23-Jun-2020, Time: 21:15:03, ID: B0E0145-DUP1 Duplicate 15.62, Description: Duplicate

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Tetra-Dioxins	24.31	5.374e3	6.434e3	4.504e2	5.142e2	0.88	NO	9.646e2	0.23250	0.23250	0.0649
Total Tetra-Dioxins	25.76	5.197e3	2.896e3	2.154e2	1.870e2	1.15	YES	0.000e0	0.00000	0.079794	0.0649

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Penta-Dioxins	29.22	2.554e3	3.433e3	1.108e2	1.379e2	0.80	YES	0.000e0	0.00000	0.080354	0.0843
Total Penta-Dioxins	29.74	5.084e3	4.652e3	2.468e2	2.802e2	0.88	YES	0.000e0	0.00000	0.16322	0.0843

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Hexa-Dioxins	33.31	1.453e4	1.406e4	7.167e2	6.231e2	1.15	NO	1.340e3	0.68585	0.68585	0.131
Total Hexa-Dioxins	34.13	4.331e3	4.074e3	2.267e2	2.088e2	1.09	NO	0.000e0	0.00000	0.22294	0.131

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Hepta-Dioxins	37.74	1.009e4	8.087e3	8.634e2	5.817e2	1.48	YES	0.000e0	0.00000	0.98625	0.247
1,2,3,4,6,7,8-HpCDD	38.74	6.329e3	6.047e3	4.589e2	4.356e2	1.05	NO	8.944e2	0.74340	0.74340	0.247

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Tetra-Furans	20.32	9.890e2	1.229e3	6.282e1	5.675e1	1.11	YES	0.000e0	0.00000	0.023393	0.0371
Total Tetra-Furans	21.44	4.805e3	6.069e3	4.151e2	5.977e2	0.69	NO	1.013e3	0.23586	0.23586	0.0371

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-9.qld

Last Altered: Wednesday, June 24, 2020 12:29:16 PM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 12:45:38 PM Pacific Daylight Time

Name: 200623R2_9, Date: 23-Jun-2020, Time: 21:15:03, ID: B0E0145-DUP1 Duplicate 15.62, Description: Duplicate

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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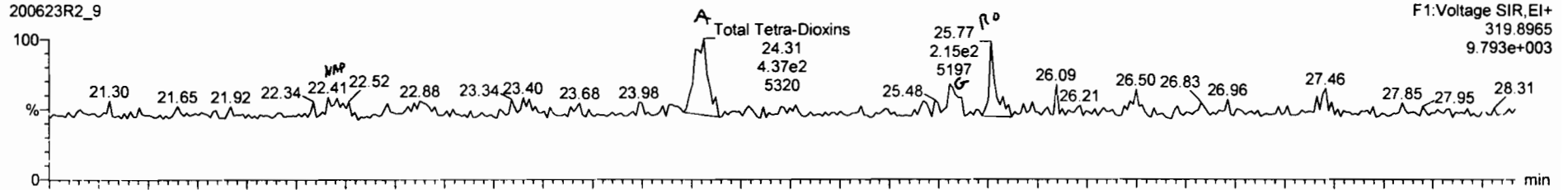
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

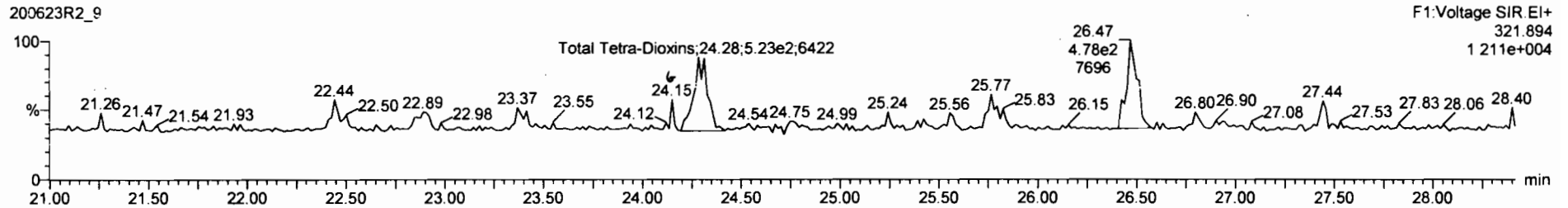
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2,3,7,8-TCDD

200623R2_9

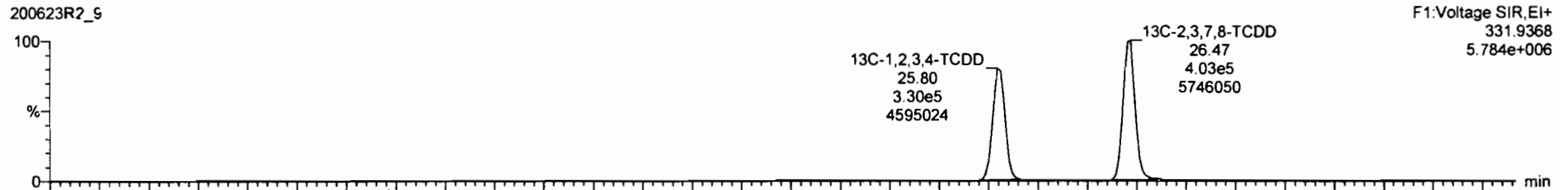


200623R2_9

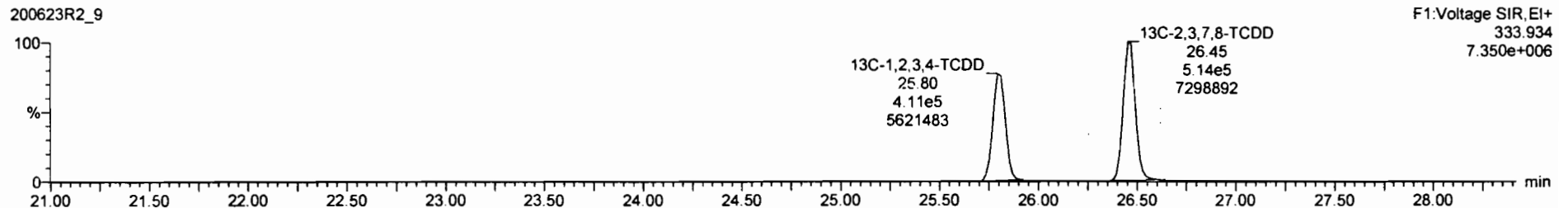


13C-2,3,7,8-TCDD

200623R2_9

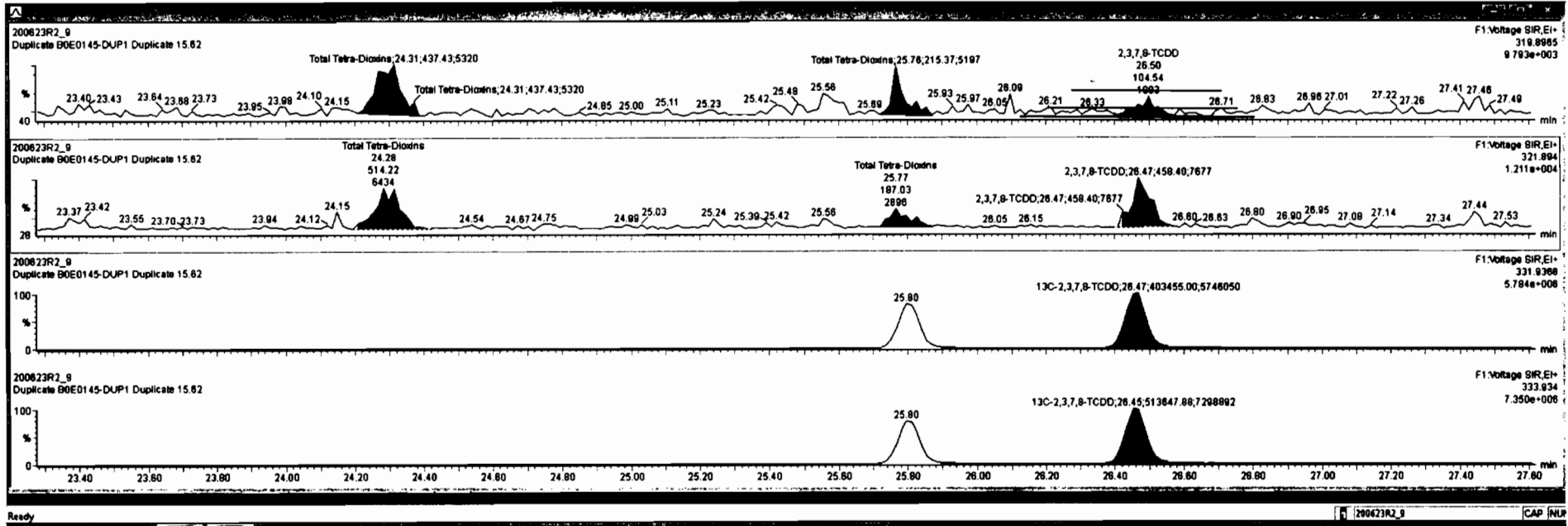


200623R2_9



Peak	RT	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
41	Total Penta-Dioxine	0.9091	10.185	29.98		0.000		0.0387	0.183				
42	Total Hexa-Dioxine	0.8923	10.185	33.83		0.708		0.131	0.708				
43	Total Hepta-Dioxine	0.8839	10.185	37.84		0.000		0.117	0.877				
44	Total Tetra-Furane	0.7510	10.185	23.81		0.238		0.0371	0.238				
45	1st Func. Penta-Furane	0.8825	10.185	27.58				0.00832					
46	Total Penta-Furane	0.8825	10.185	28.27				0.0180					
47	Total Hexa-Furane	0.8341	10.185	33.58				0.0330					
48	Total Hepta-Furane	0.8734	10.185	37.83				0.0784					
49	PFK1												

Peak	RT	Int Resp	Ext Resp	% PA	July	BPC	Comp.
1	Total Tetra-Dioxine	4.374e2	5.142e2	0.85	NO	0.22839	0.22839
2	Total Tetra-Dioxine	2.154e2	1.870e2	1.15	YES	0.079794	0.00000
3	2,3,7,8-TCDD	1.045e2	4.584e2	0.23	YES	0.057828	0.00000



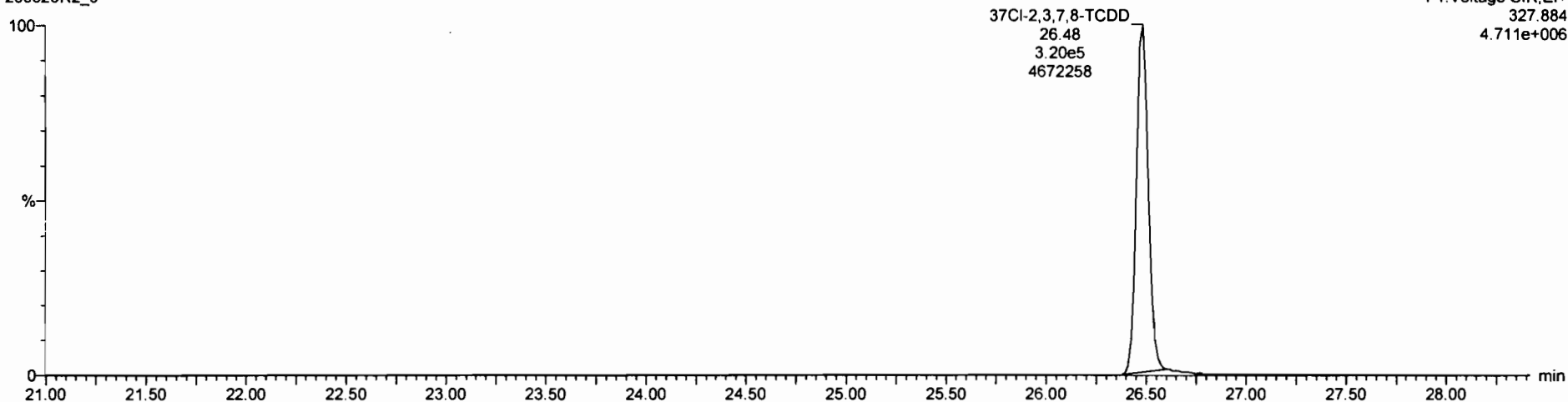
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Name: 200623R2_9, Date: 23-Jun-2020, Time: 21:15:03, ID: B0E0145-DUP1 Duplicate 15.62, Description: Duplicate

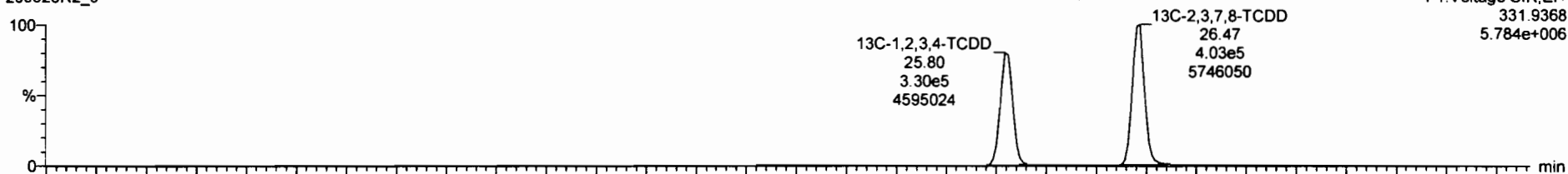
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200623R2_9

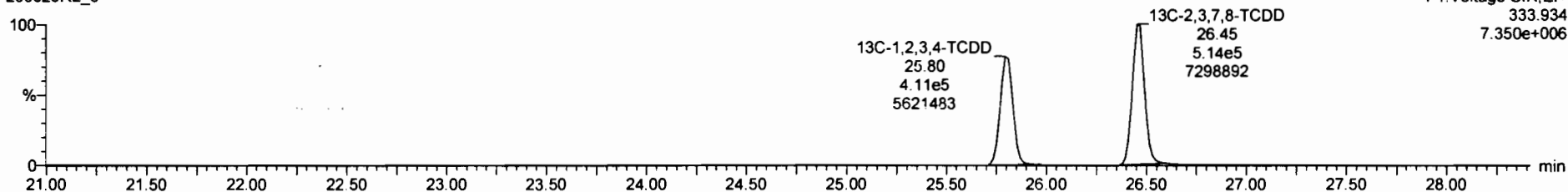


13C-1,2,3,4-TCDD

200623R2_9



200623R2_9

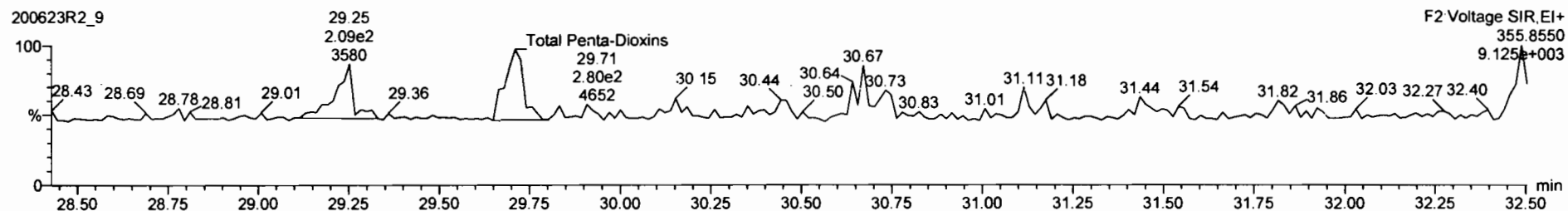
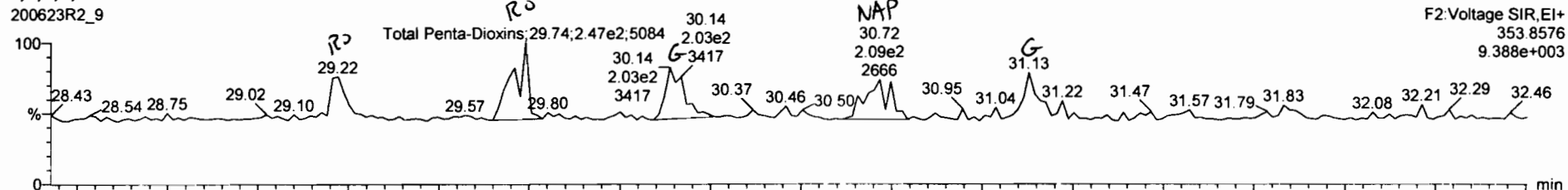


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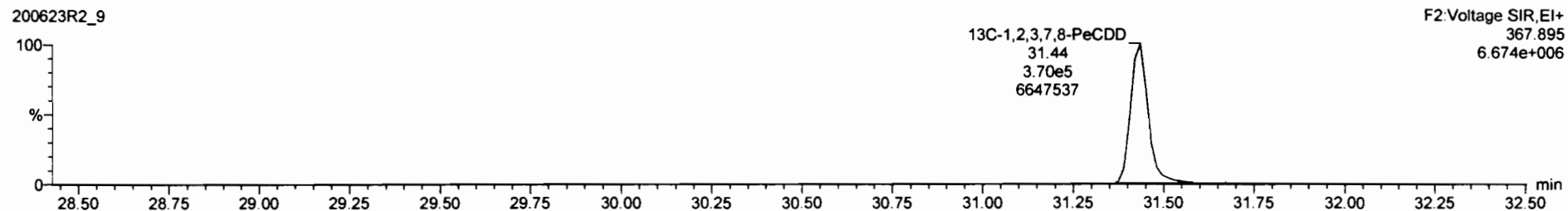
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1,2,3,7,8-PeCDD

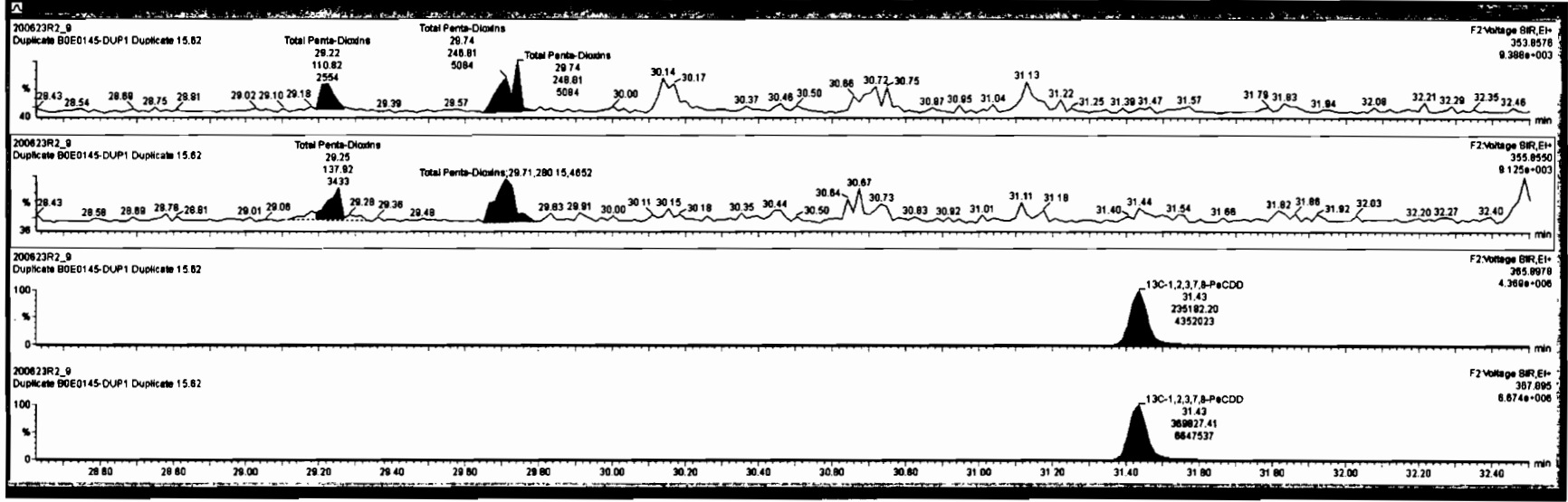


13C-1,2,3,7,8-PeCDD



Sample	Comp	Area	Conc	Unit	Response	Conc	Unit	Response
30	Total Tetra-Dioxins	0.8983	10.185	24.82	0.233	0.0048	0.312	
31	Total Hexa-Dioxins	0.8923	10.185	33.83	0.708	0.131	0.708	
32	Total Hepta-Dioxins	0.8930	10.185	37.84	0.000	0.117	0.877	
33	Total Tetra-Furans	0.7510	10.185	23.81	0.236	0.0371	0.236	
34	1st Func. Penta-Furans	0.8925	10.185	27.39		0.00832		
35	Total Penta-Furans	0.8925	10.185	28.27		0.0180		
36	Total Hexa-Furans	0.8341	10.185	33.36		0.0330		
37	Total Hepta-Furans	0.8734	10.185	37.83		0.0784		
38	PKY1							

Sample	Comp	Area	Conc	Unit	Response	Conc	Unit	Response
1	Total Penta-Dioxins	28.22	1.108e2	1.379e2	0.80	YES	0.080394	0.00000
2	Total Penta-Dioxins	29.74	2.468e2	2.802e2	0.95	YES	0.16322	0.00000



Dataset: Untitled

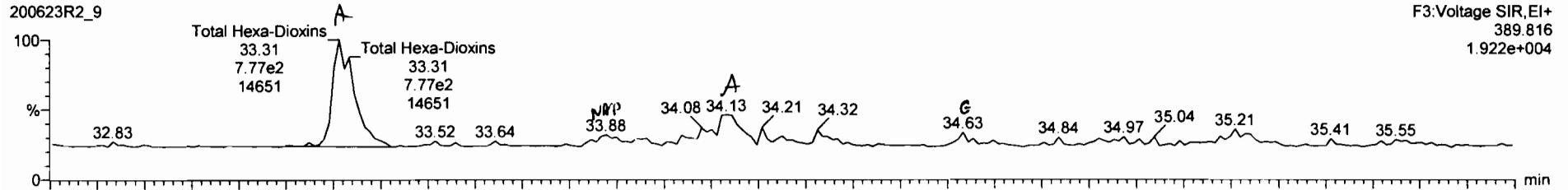
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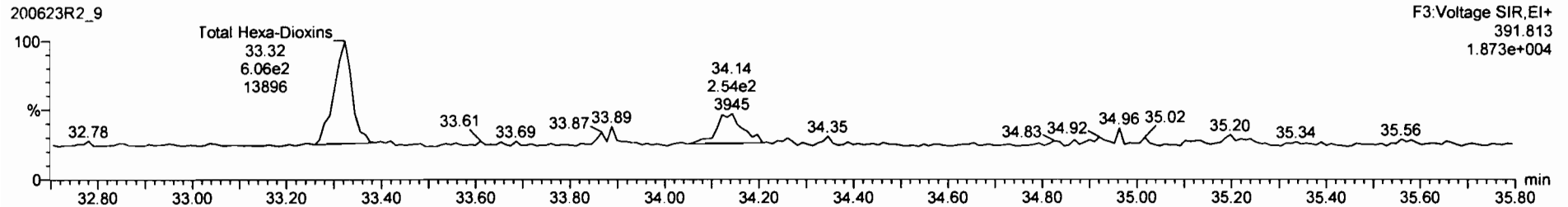
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1,2,3,4,7,8-HxCDD

200623R2_9

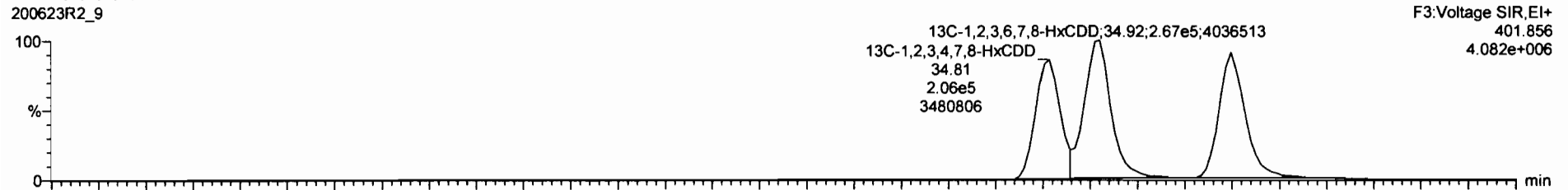


200623R2_9

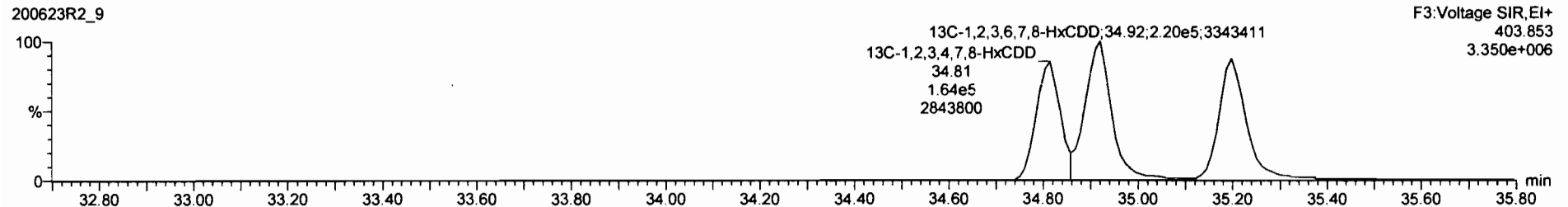


13C-1,2,3,4,7,8-HxCDD

200623R2_9



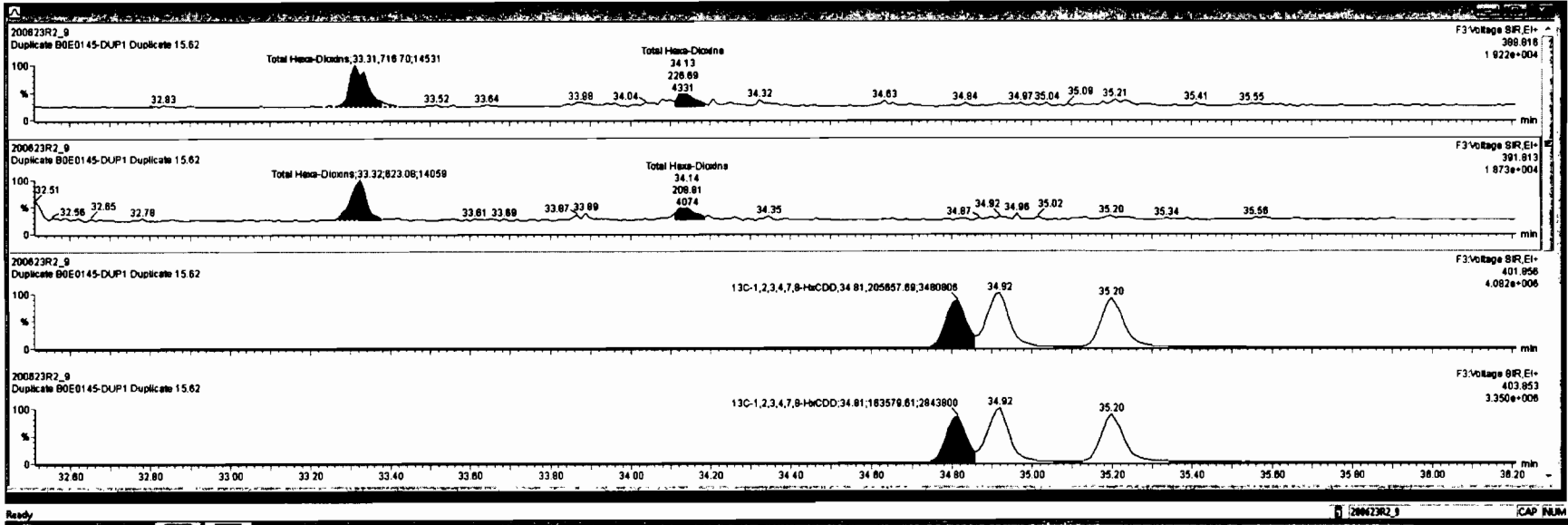
200623R2_9





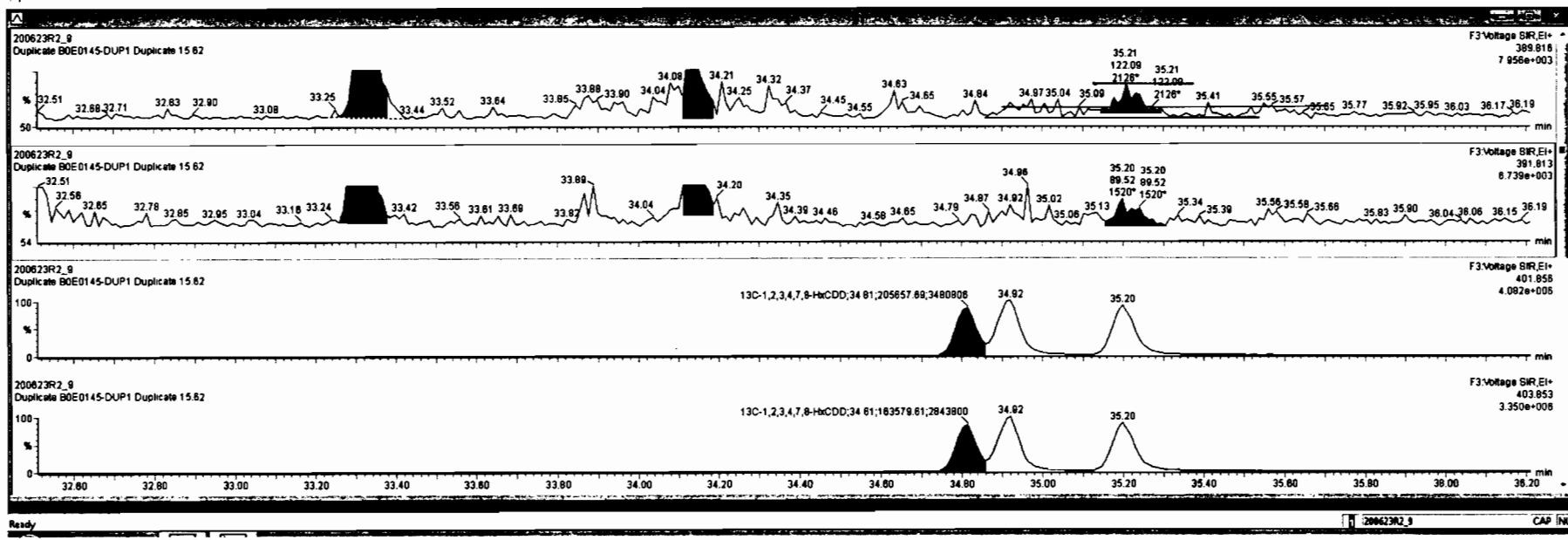
Peak	RT	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
28						0.8983	10.185	24.82		0.233	0.0648	0.312	
45						0.8081	10.185	28.98		0.000	0.0367	0.244	
42						0.8636	10.185	37.84		0.000	0.117	0.877	
43						0.7510	10.185	23.81		0.236	0.0371	0.236	
44						0.8625	10.185	27.58			0.0282		
46						0.8625	10.185	28.27			0.0180		
48						0.8341	10.185	33.56			0.0330		
47						0.8734	10.185	37.83			0.0794		
49													

Peak	RT	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1						0.8895	10.185	24.82		0.233	0.0648	0.312	
2						0.8081	10.185	28.98		0.000	0.0367	0.244	



Peak	RT	Area	Height	Width	Volume	Height	Area	Height	Area	Height	Area	Height
46.1	10.185	24.82	0.0083	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040
46.2	10.185	29.98	0.0081	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040
46.3	10.185	37.84	0.0036	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040	0.0040
46.4	10.185	23.81	0.7510	0.0236	0.0371	0.0236	0.0371	0.0236	0.0371	0.0236	0.0371	0.0236
46.5	10.185	27.58	0.8925	0.0082	0.0180	0.0082	0.0180	0.0082	0.0180	0.0082	0.0180	0.0082
46.6	10.185	28.27	0.8925	0.0180	0.0330	0.0180	0.0330	0.0180	0.0330	0.0180	0.0330	0.0180
46.7	10.185	33.58	0.8341	0.0784	0.0784	0.0784	0.0784	0.0784	0.0784	0.0784	0.0784	0.0784
46.8	10.185	37.83	0.8734									
46.9												

Peak	RT	Area	Height	Width	Volume	Height	Area	Height	Area	Height	Area	Height
1	33.31	7.187e2	6.231e2	1.15	NO	0.88585	0.88585					
2	34.13	2.289e2	1.785e2	1.26	NO	0.20838	0.00000					



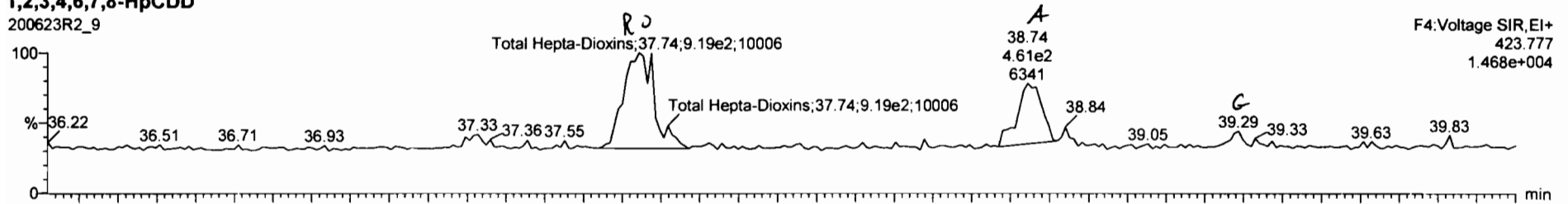
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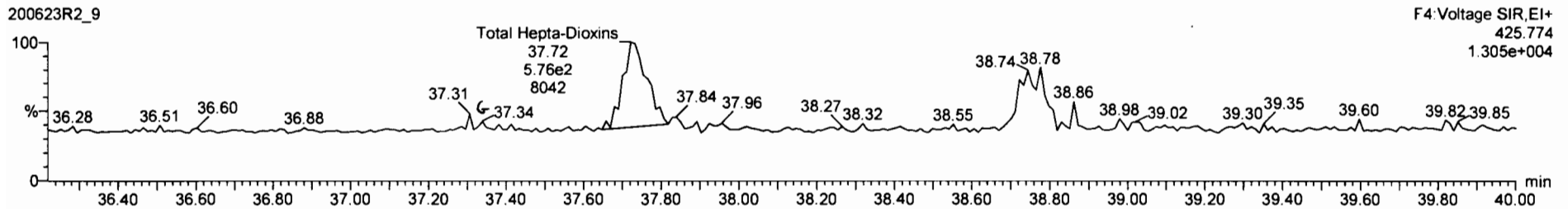
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1,2,3,4,6,7,8-HpCDD

200623R2_9

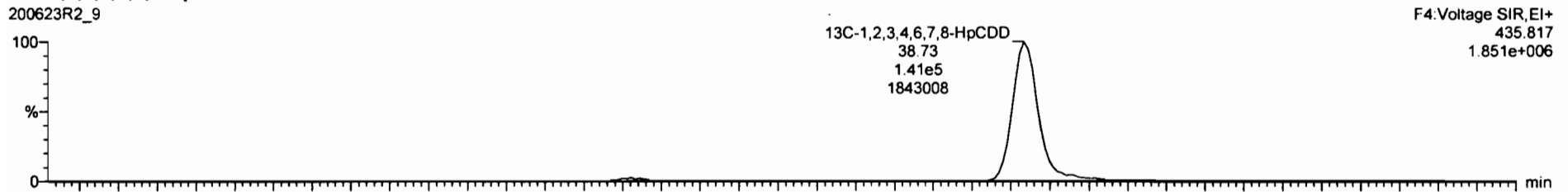


200623R2_9

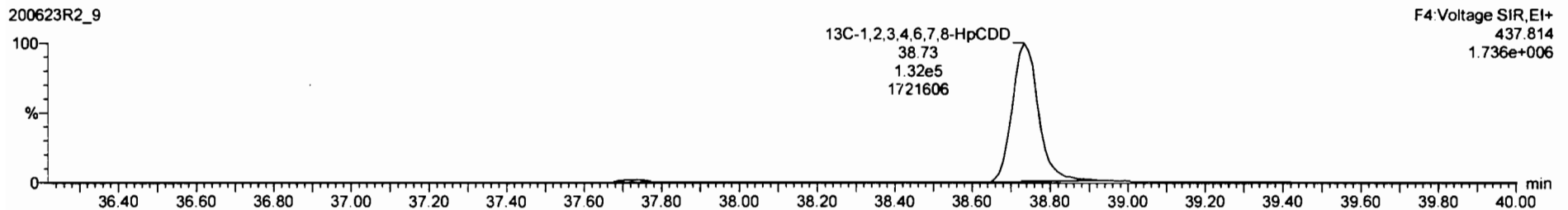


13C-1,2,3,4,6,7,8-HpCDD

200623R2_9

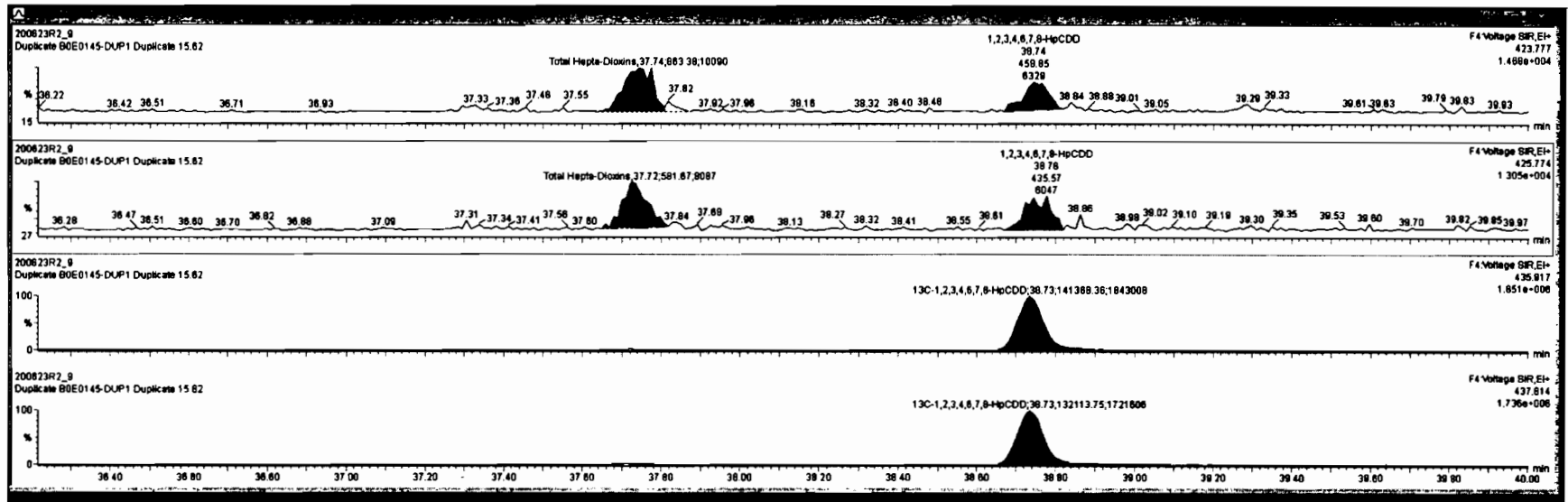


200623R2_9



Sample	Method	Unit	Value	Unit	Value	Unit	Value	Unit	Value	Unit	Value
26	Total Tetra-Dioxine		0.0663	10.185	24.82		0.233		0.0648		0.312
27	Total Penta-Dioxine		0.9081	10.185	28.88		0.000		0.0367		0.244
28	Total Hexa-Dioxine		0.6923	10.185	33.83		0.886		0.131		0.909
29	Total Tetra-Furane		0.7510	10.185	23.81		0.236		0.0371		0.238
30	1 al Func. Penta-Furane		0.6925	10.185	27.59				0.00632		
31	Total Penta-Furane		0.6925	10.185	28.27				0.0180		
32	Total Hexa-Furane		0.9341	10.185	33.56				0.0330		
33	Total Hepta-Furane		0.8734	10.185	37.83				0.0784		

Item	Ref	Std Range	Std Dev	Std	Yes	EMC	Comp	
1	Total Hepta-Dioxine	37.74	8.534e2	5.917e2	1.48	YES	0.99825	0.00000
2	1,2,3,4,6,7,8-HpCDD	38.74	4.588e2	4.386e2	1.65	NO	0.74340	0.74340

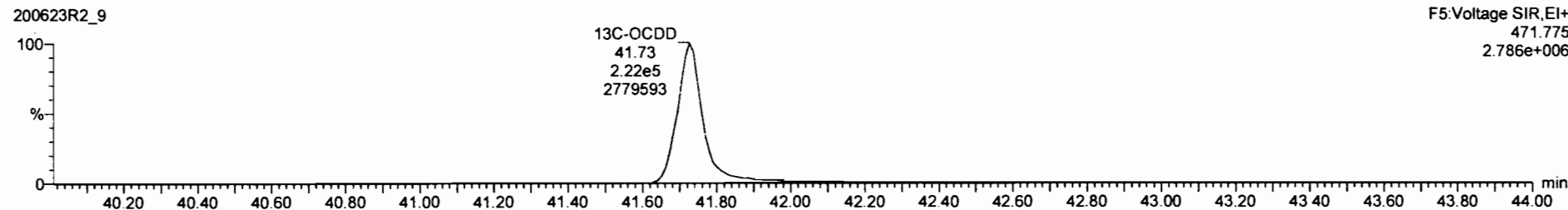
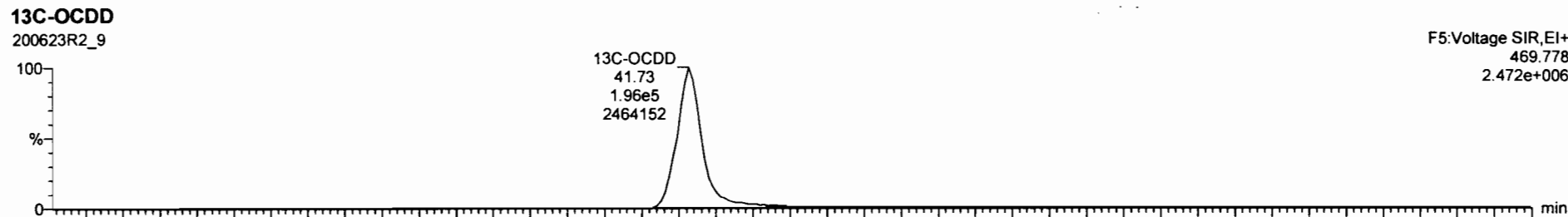
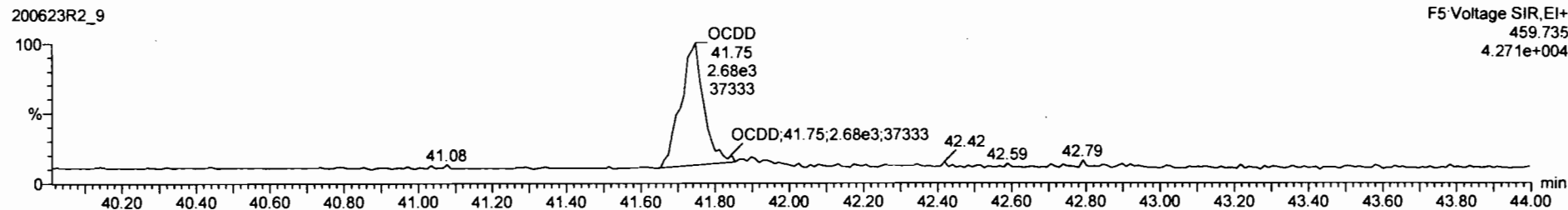
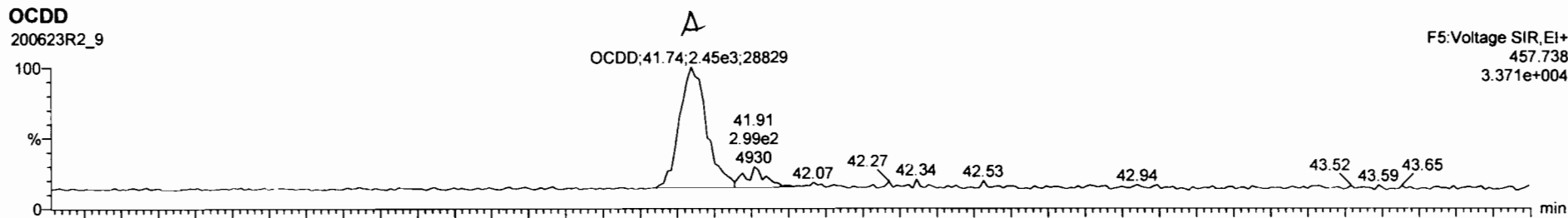


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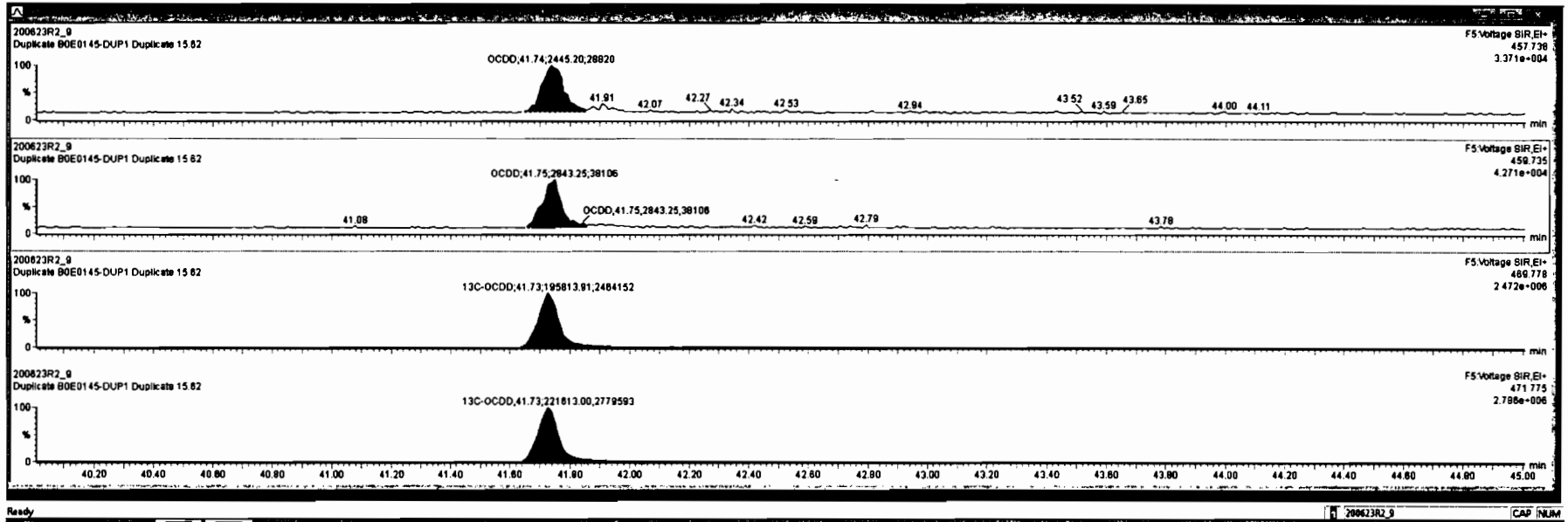
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Name: 200623R2_9, Date: 23-Jun-2020, Time: 21:15:03, ID: B0E0145-DUP1 Duplicate 15.62, Description: Duplicate



#	Name	RT	Area	Height	Width	Weight	Offet	Height	Area	Weight
9	2,3,7,8-TCDF		NO	0.7510	10.185	25.80				0.0371
10	1,2,3,7,8-PeCDF		NO	0.8625	10.185	30.18				0.0380
11	2,3,4,7,8-PeCDF		NO	0.9340	10.185	31.16				0.0330
12	1,2,3,4,7,8-HxCDF		NO	0.8645	10.185	33.94				0.0590
13	1,2,3,6,7,8-HxCDF		NO	0.8802	10.185	34.27				0.0481
14	2,3,4,6,7,8-HxCDF		NO	0.9341	10.185	34.68				0.0579
15	1,2,3,7,8-HxCDF		NO	0.8707	10.185	35.58				0.0688
16	1,2,3,4,6,7,8-HpCDF		NO	0.8734	10.185	37.38				0.134
18	1,2,3,4,7,8,9-HpCDF		NO	1.0128	10.185	39.29				0.171

Name	RT	m1 Peak	m2 Peak	RA	uf	EMPC	Conn.



Dataset: Untitled

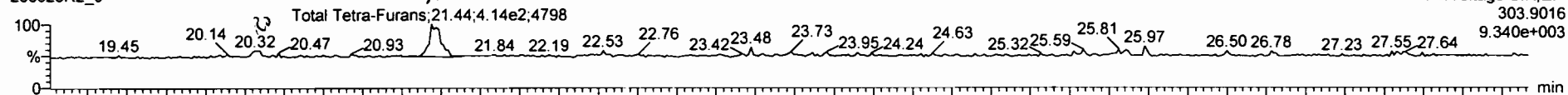
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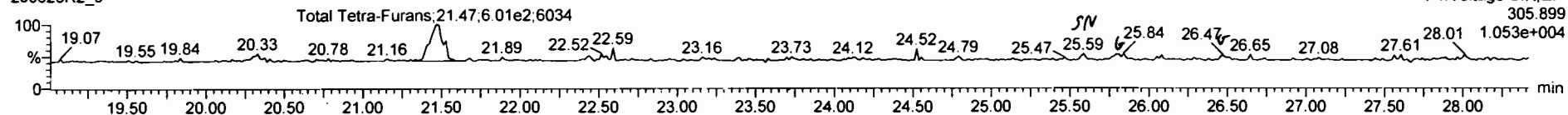
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2,3,7,8-TCDF

200623R2_9

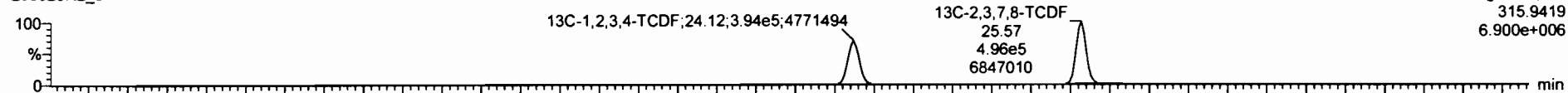


200623R2_9

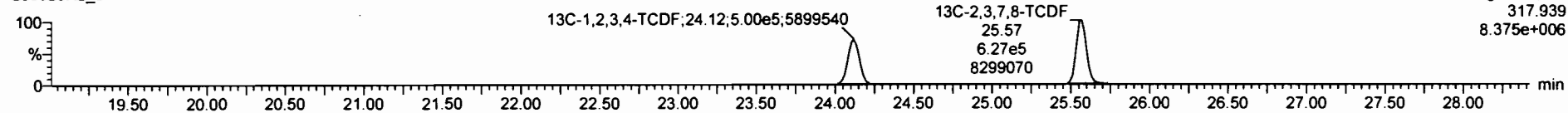


13C-2,3,7,8-TCDF

200623R2_9

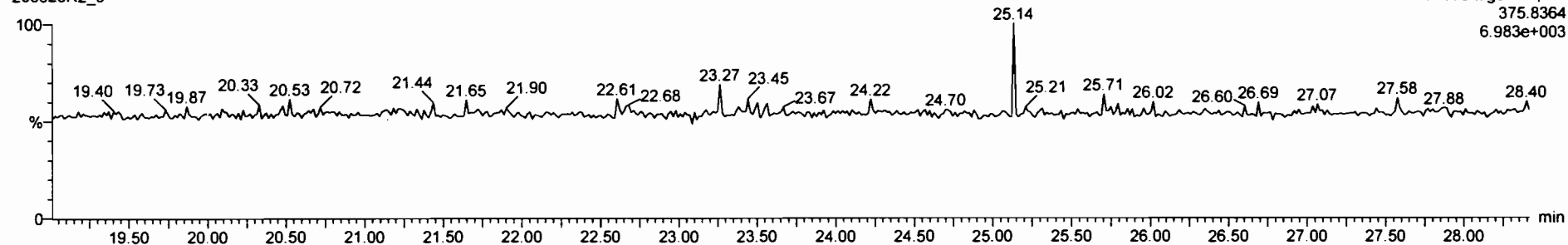


200623R2_9



DPE1

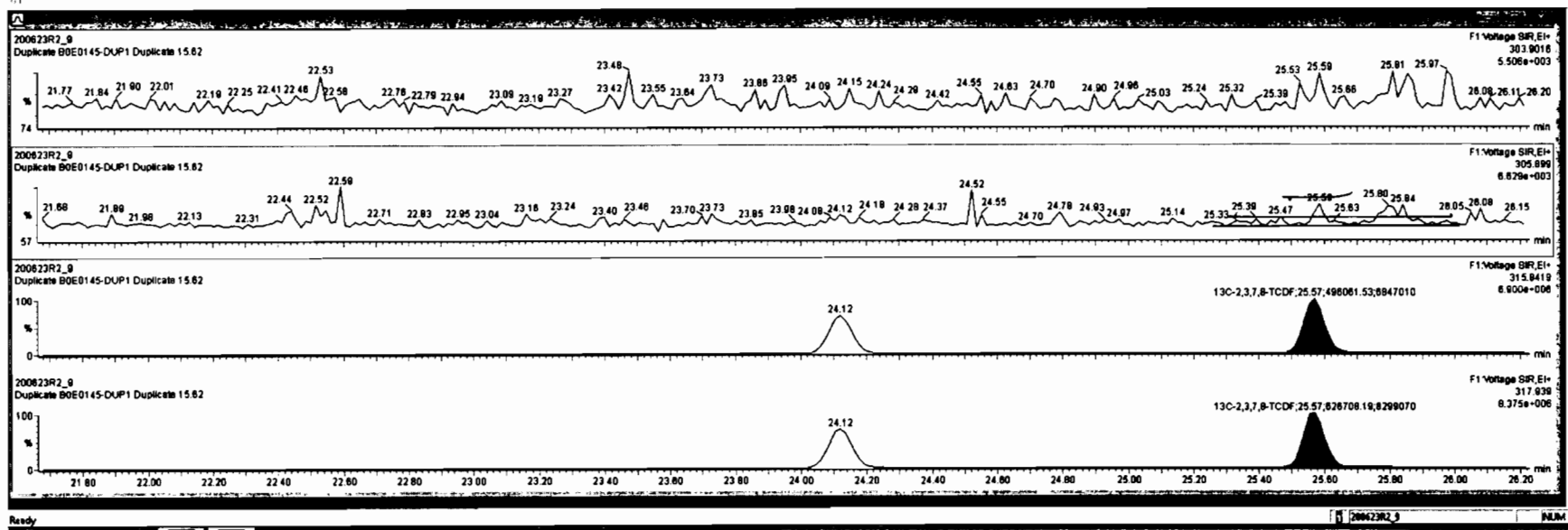
200623R2_9





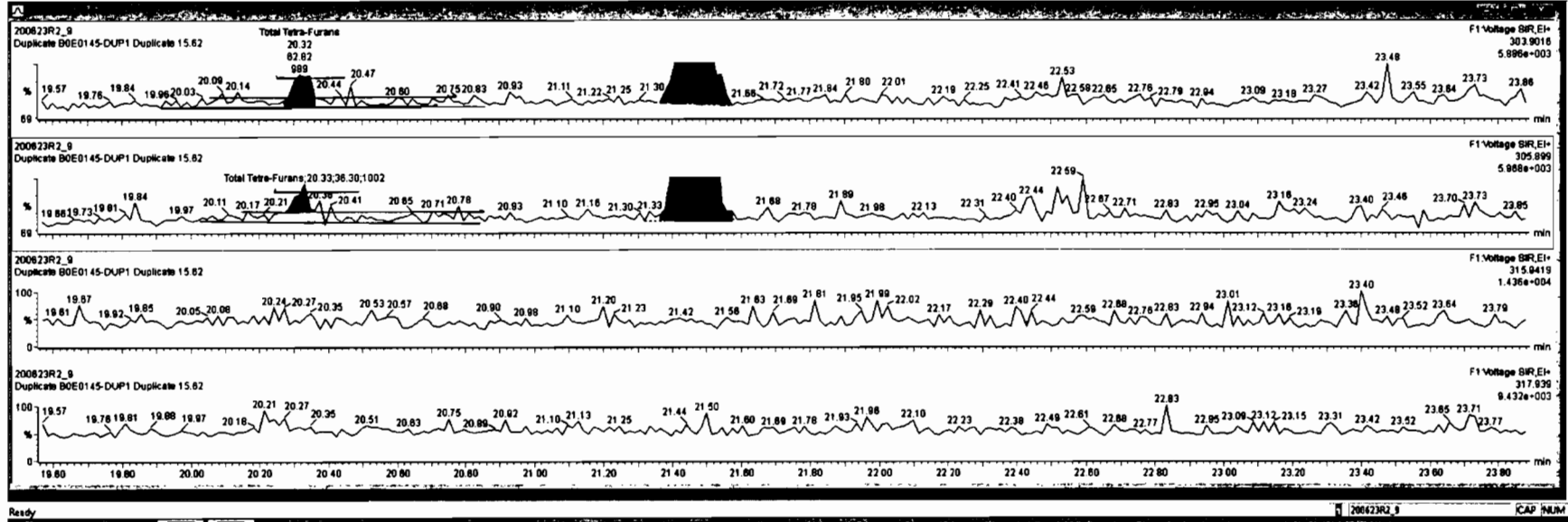
RT	Name	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
17	Total Hexa-Chlorine	0.8923	10.185	33.83				0.686	0.131	0.809
18	Total Hepta-Chlorine	0.8638	10.185	37.84				0.743	0.247	1.73
19	Total Tetra-Furane	0.7510	10.185	23.81				0.236	0.0371	0.259
20	1st Func. Penta-Furane	0.8925	10.185	27.98					0.0682	
21	Total Penta-Furane	0.8925	10.185	28.27					0.0180	
22	Total Hexa-Furane	0.9341	10.185	33.56					0.0330	
23	Total Hepta-Furane	0.8734	10.185	37.83					0.0784	

RT	Name	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
17	Total Tetra-Furane	20.32	8.262e1	6.875e1	1.11	YES	0.023583	0.00000		
18	Total Tetra-Furane	21.44	4.151e2	5.877e2	0.88	NO	0.23598	0.23598		



RT	Name	Range	RA	dy	RF	Initial	Position	RT	RF	RF	RF	RF	RF	RF	RF
41	Total Hexa-Chlorine				0.0923	10.195	33.83			0.090		0.131	0.909		
42	Total Hepta-Chlorine				0.0638	10.195	37.84			0.743		0.247	1.73		
43	Total Tetra-Furane				0.7510	10.195	23.81			0.236		0.0374	0.251		
44	Total Penta-Furane				0.0625	10.195	27.58					0.00832			
45	Total Hexa-Furane				0.0625	10.195	28.27					0.0180			
46	Total Hepta-Furane				0.0341	10.195	33.58					0.0330			
47	Total Octa-Furane				0.0734	10.195	37.83					0.0784			
48	PFY1														
49	PFY2														
50	PFY3														

Name	RT	Initial Range	Final Range	RA	dy	RF	Comp.
1 Total Tetra-Furane	20.32	6.282e1	3.830e1	1.73	YES	0.014885	0.00000
2 Total Tetra-Furane	21.44	4.151e2	5.877e2	0.88	NO	0.23688	0.23686



Dataset: Untitled

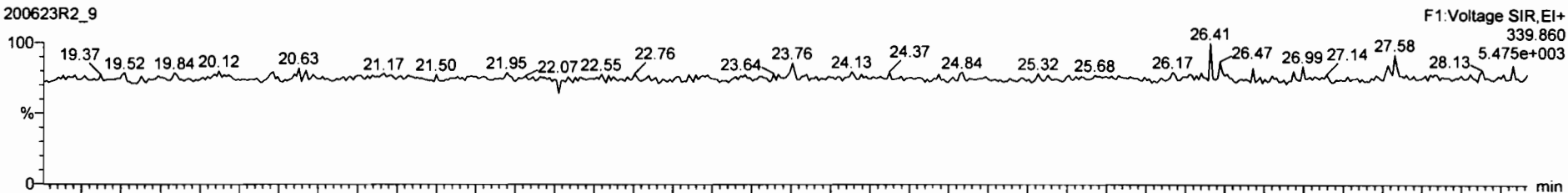
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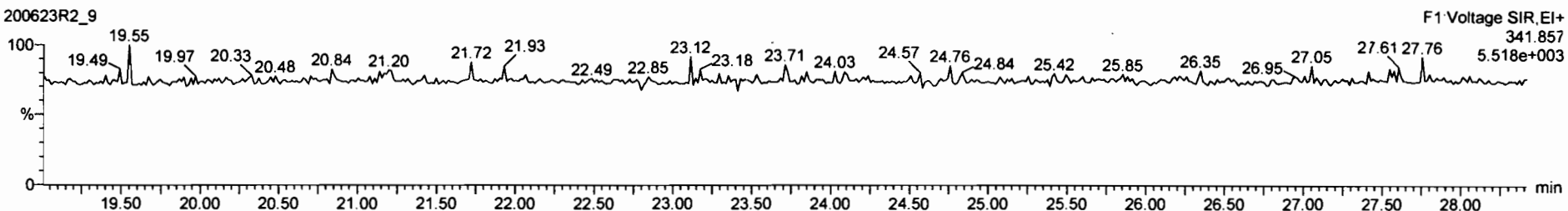
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1st Func. Penta-Furans

200623R2_9

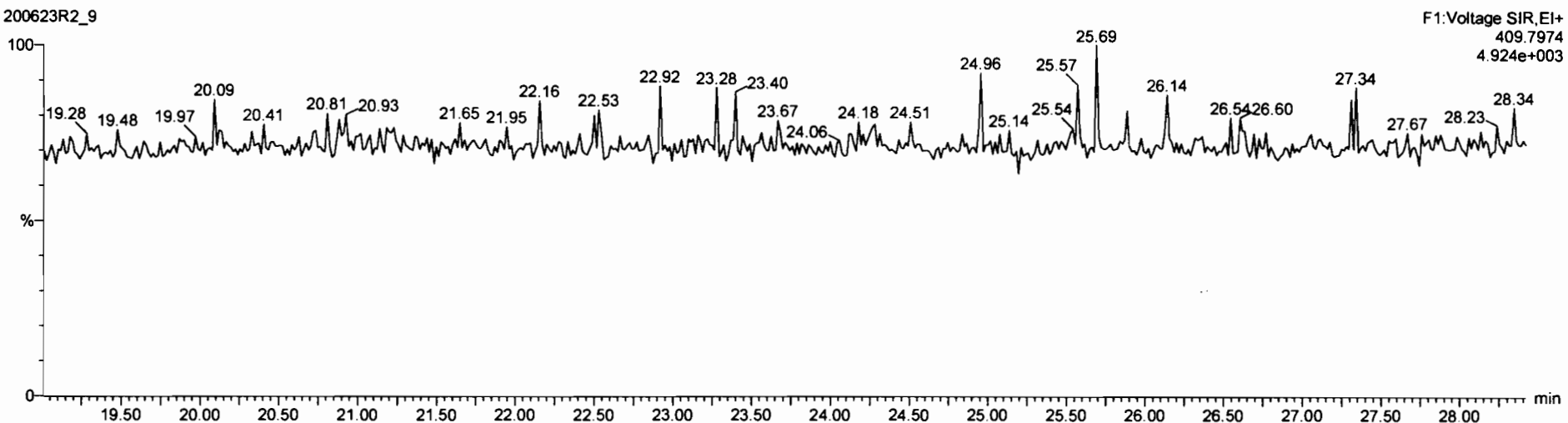


200623R2_9



DPE6

200623R2_9



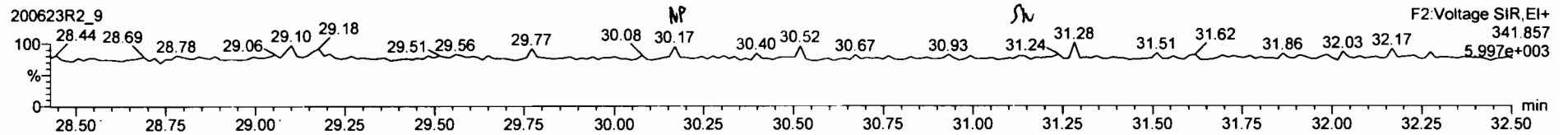
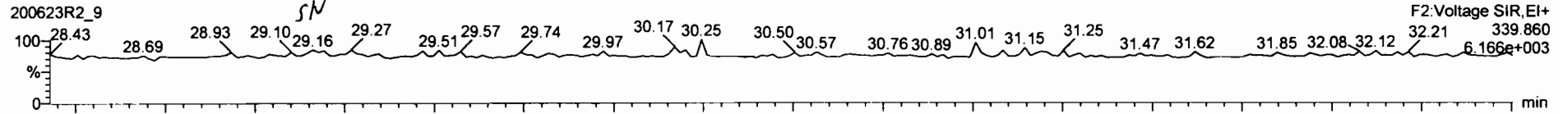
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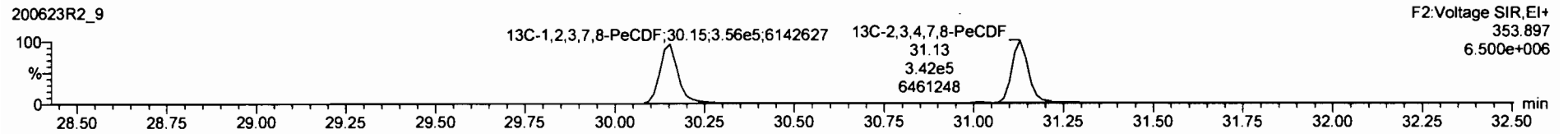
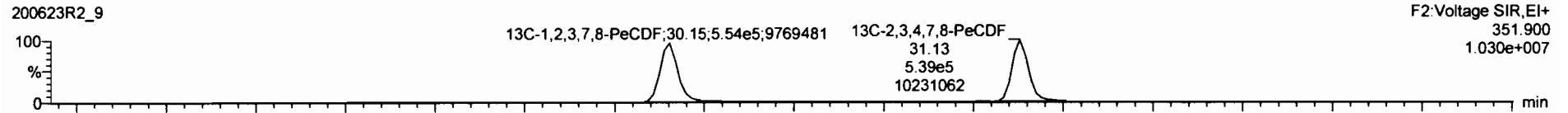
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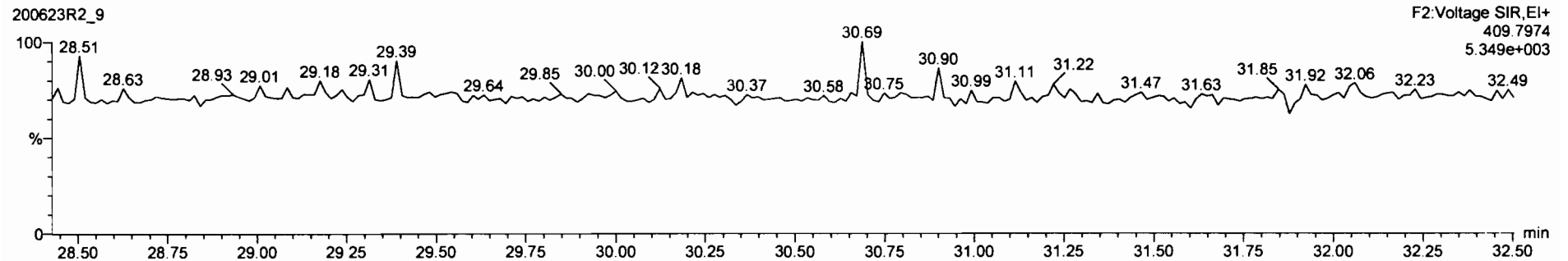
1,2,3,7,8-PeCDF



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

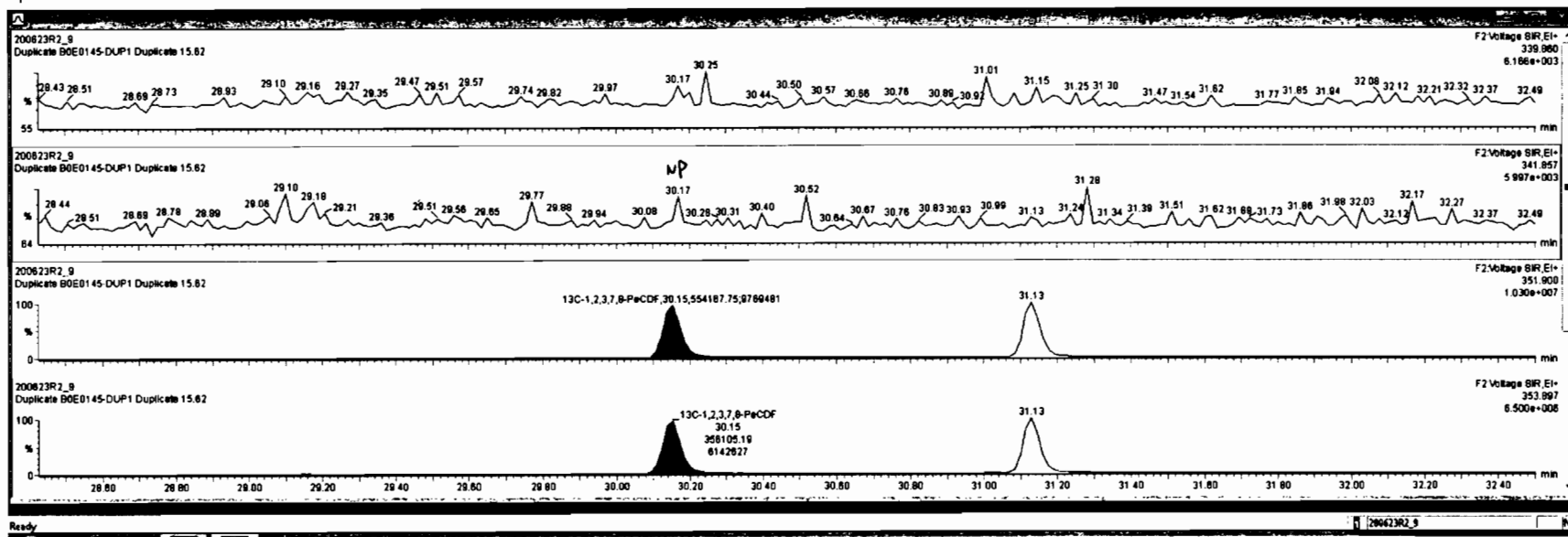


DPE2



RT	Name	Resp	RA	Adj	RP	RP%	RP%	RP%	RP%	RP%	RP%	RP%	RP%	RP%	RP%	RP%	RP%	RP%	RP%	RP%
01	Total Hexa-Chlorine				0.8923	10.185	37.83			0.686	0.131	0.908								
02	Total Hepta-Chlorine				0.8636	10.185	37.84			0.743	0.247	1.73								
03	Total Tetra-Furane				0.7510	10.185	23.81			0.236	0.0371	0.259								
04	1 of Func. Penta-Furane				0.8625	10.185	27.59				0.00832									
05	Total Hexa-Furane				0.8341	10.185	33.56				0.0330									
07	Total Hepta-Furane				0.8734	10.185	37.83				0.0784									
08	PFN1																			
09	PFN2																			
09	PFN3																			

Name	RT	adj Resp	adj Resp	RA	adj	RP%	Comp.
1							

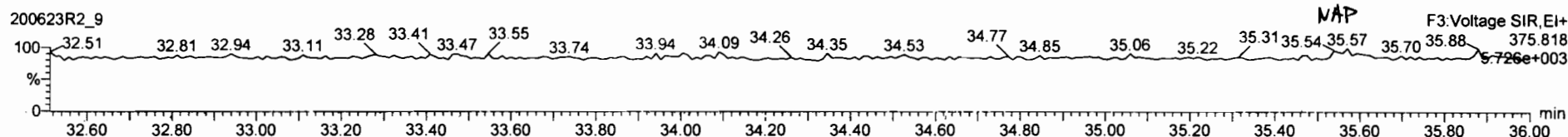
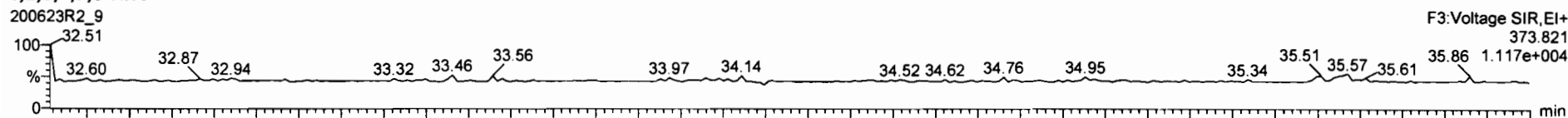


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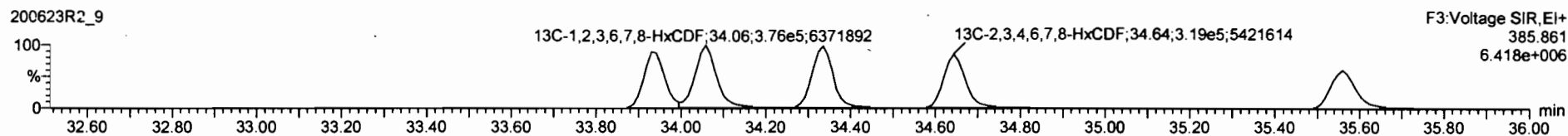
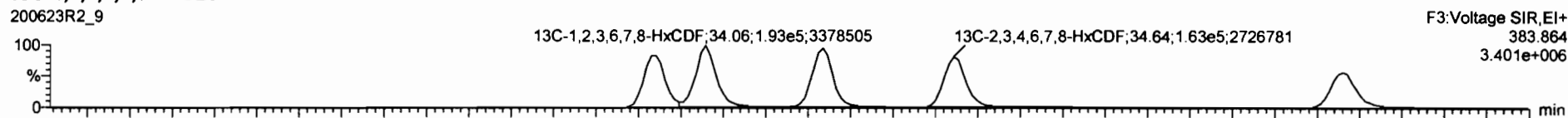
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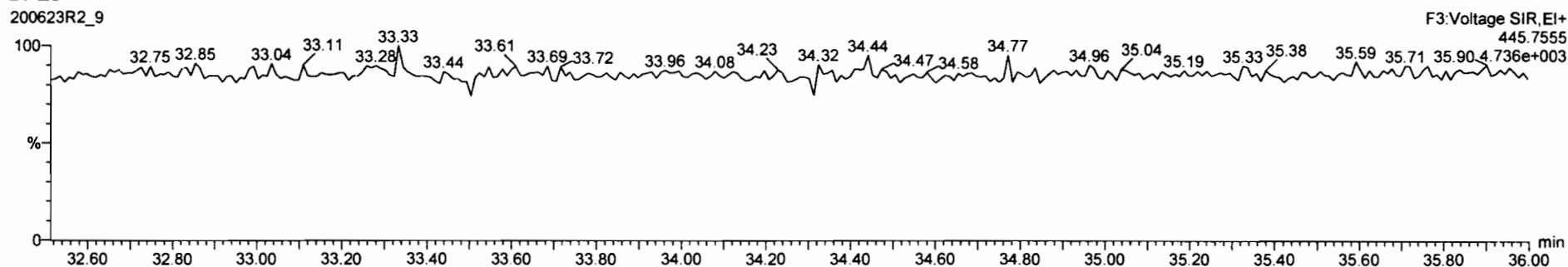
1,2,3,4,7,8-HxCDF



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

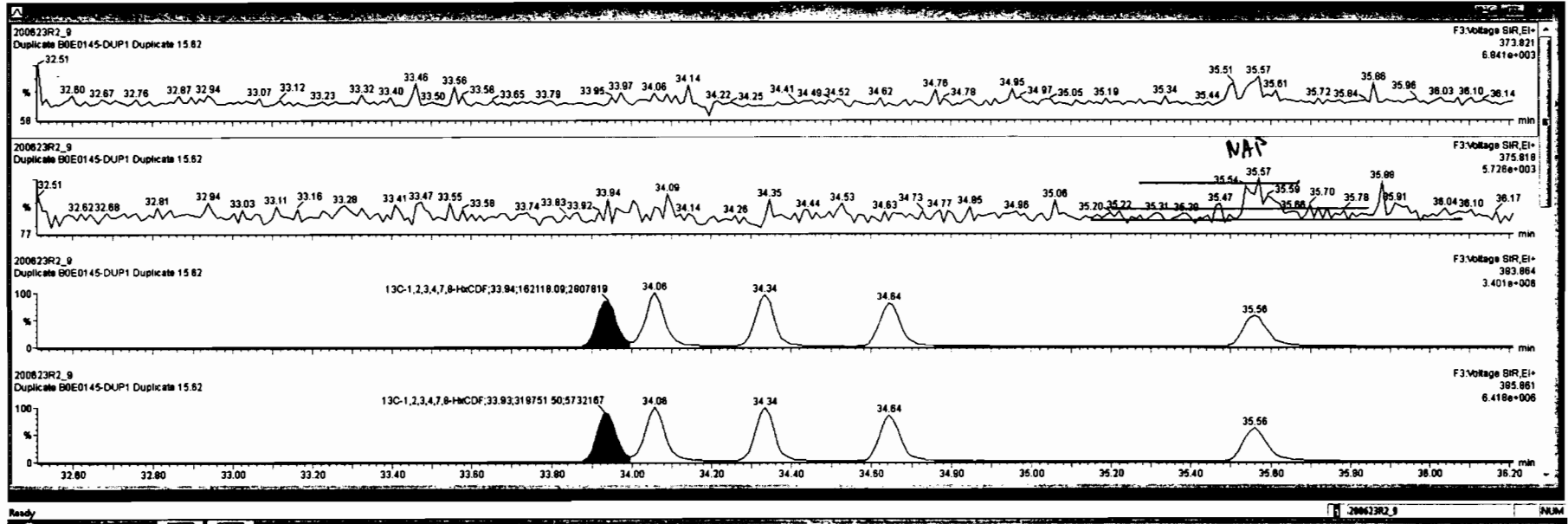


DPE3



Name	Group	RA	Adj	FWF	Substn	Positiv	RT	Concn	Value	QL	EMPC
46	Total Hexa-Dioxine			0.8623	10.185	37.83			0.886	0.131	0.909
47	Total Hepta-Dioxine			0.8630	10.185	37.84			0.743	0.247	1.73
48	Total Tetra-Furans			0.7510	10.185	23.81			0.236	0.0371	0.259
49	1st Func. Penta-Furans			0.8625	10.185	27.56				0.00832	
49	Total Penta-Furans			0.8625	10.185	26.27				0.0180	
47	Total Hepta-Furans			0.8734	10.185	37.83				0.0784	
49	PFK1										
49	PFK2										
49	PFK3										

Name	RT	Int Resp	Int Resp	RA	Adj	EMPC	Conc.



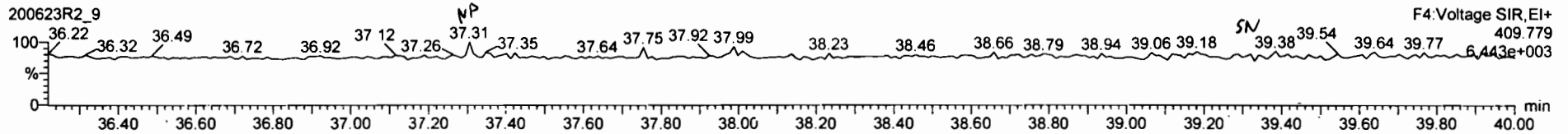
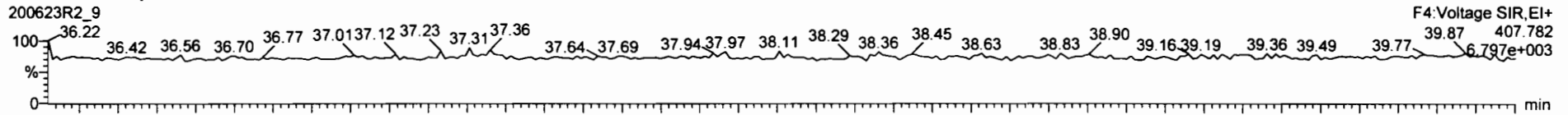
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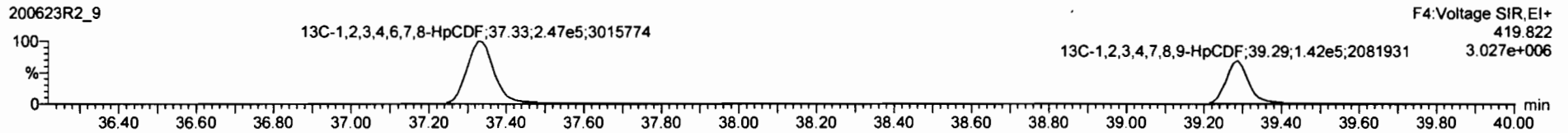
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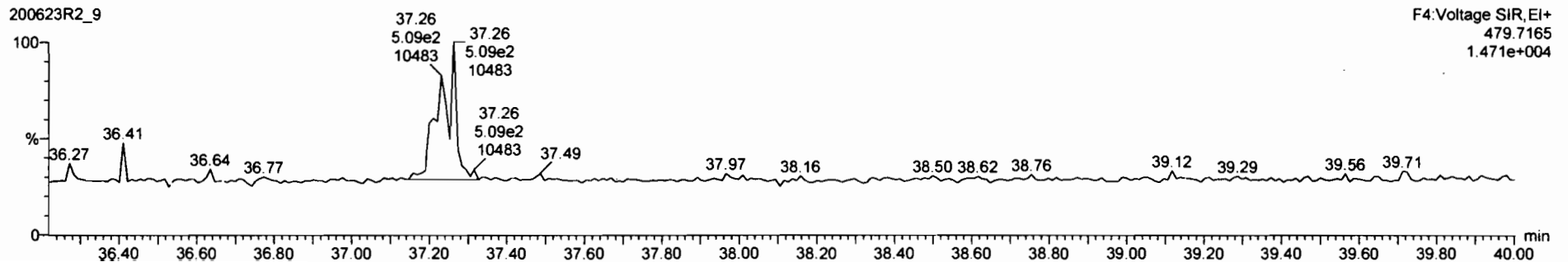
1,2,3,4,6,7,8-HpCDF



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

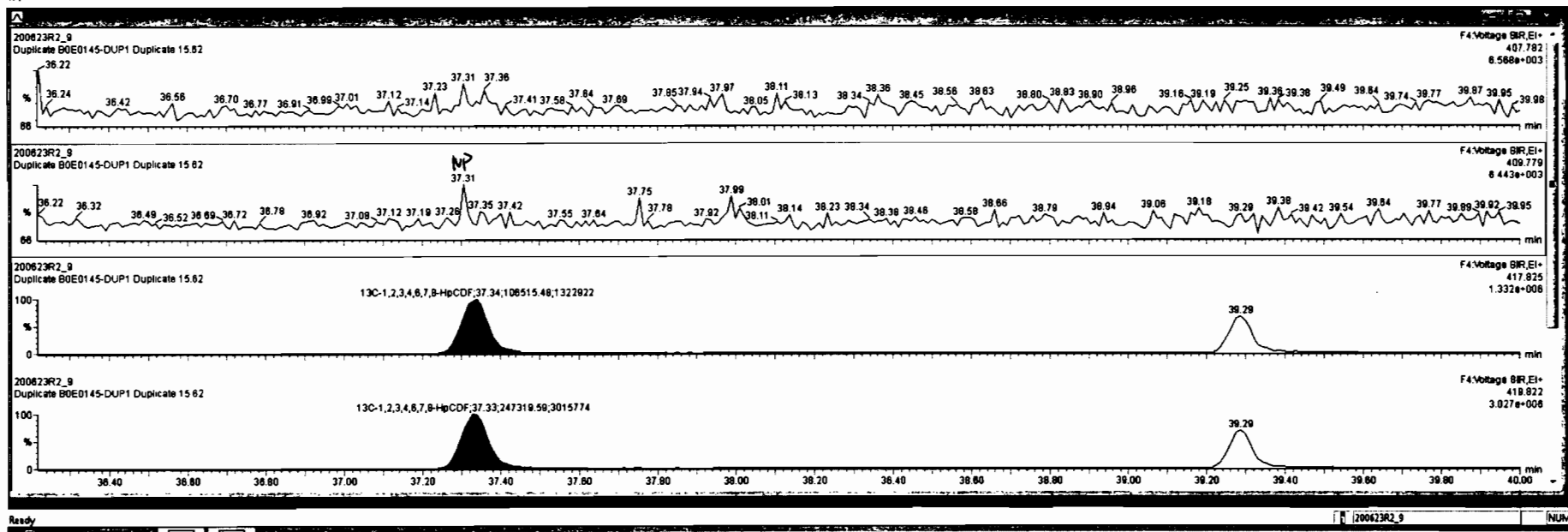


DPE4



Peak	RT	Area	Height	Width	Area%	Height%	Width%
67	36.22	0.8023	10.185	33.83	0.886	0.131	0.800
68	37.31	0.8638	10.185	37.84	0.743	0.247	1.73
69	37.99	0.7510	10.185	23.61	0.236	0.0371	0.259
70	38.29	0.8025	10.185	27.58		0.00632	
71	39.29	0.8025	10.185	28.27		0.0180	
72	39.36	0.9341	10.185	33.58		0.0330	
73							
74							
75							

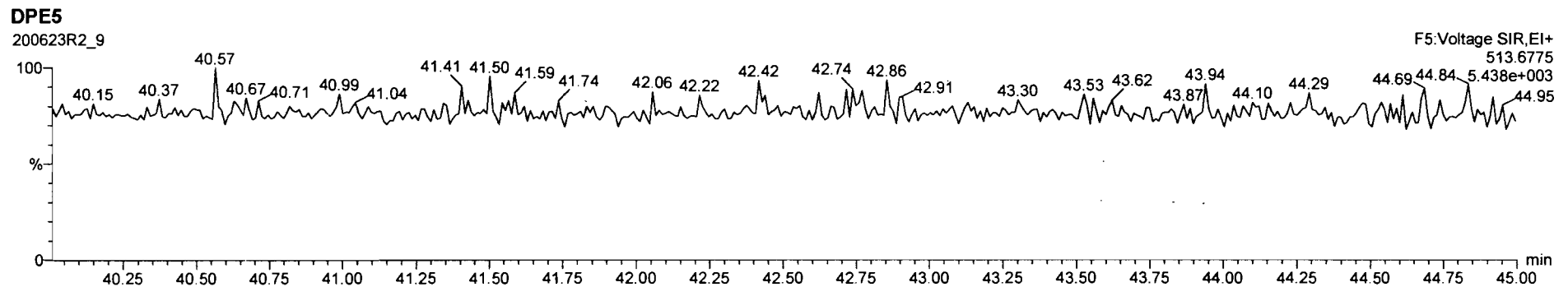
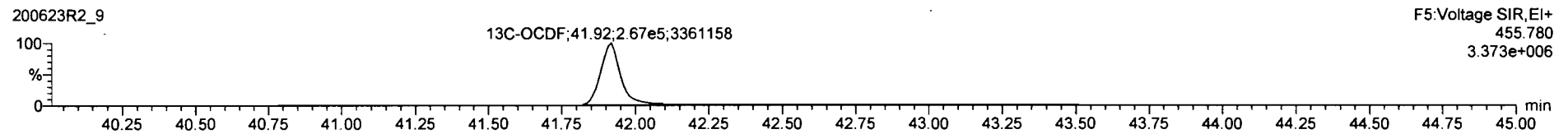
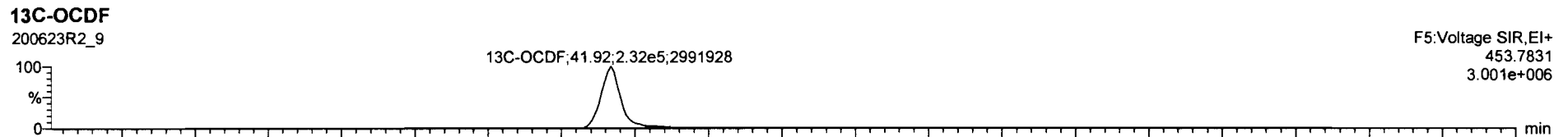
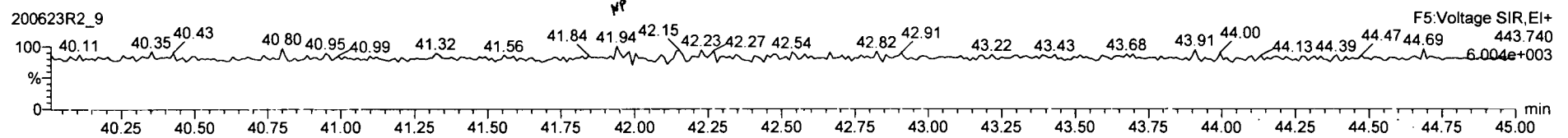
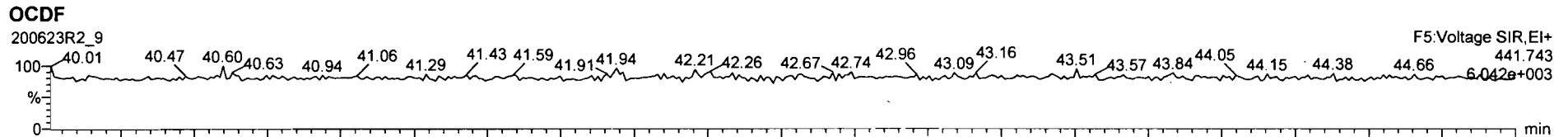
Peak	RT	Area	Height	Width	Area%	Height%	Width%
1							



Dataset: Untitled

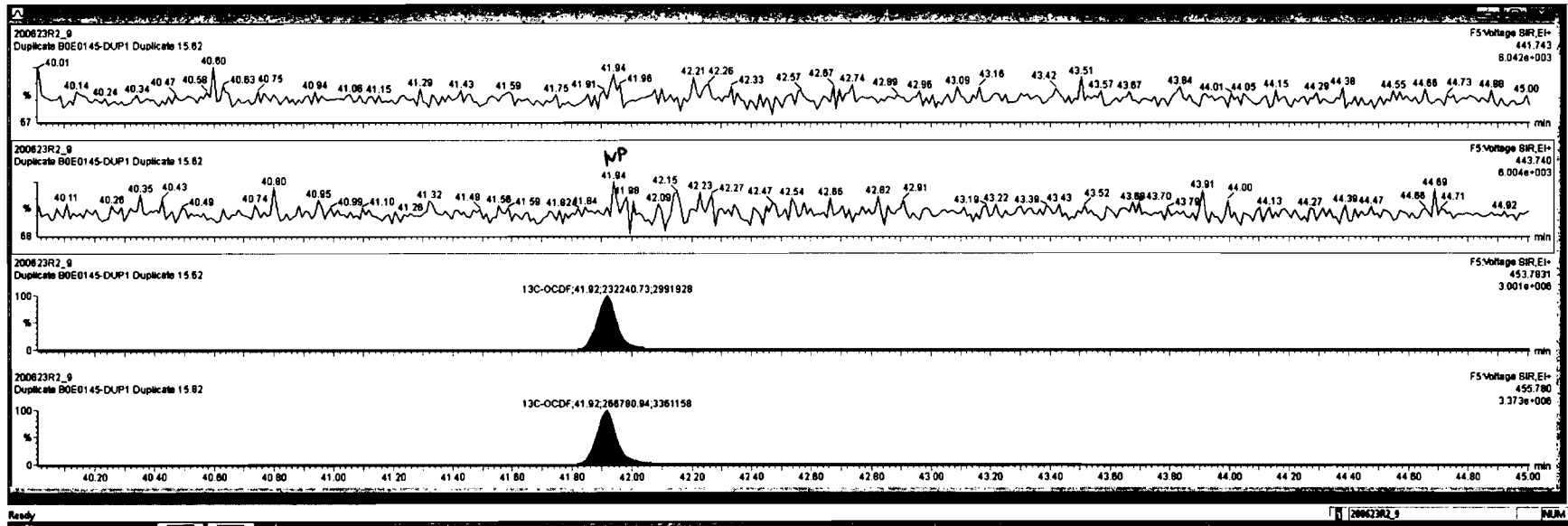
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_9, Date: 23-Jun-2020, Time: 21:15:03, ID: B0E0145-DUP1 Duplicate 15.62, Description: Duplicate



RT	Comp	Int	Area	Area%	Height	Width	Height	Area	Area%	Height	Width	Height	Area	Area%	Height	Width	Height
67	13C-2,3,7,8-ICDD	9.17e5	0.79	NO	1.13e3	10.185	28.48	28.47	1.028	210	1.07	0.214					
68	13C-1,2,3,7,8-PnCDD	9.05e5	0.84	NO	0.8480	10.185	31.88	31.43	1.219	180	96.1	0.317					
69	13C-1,2,3,7,8-HxCDD	3.88e5	1.28	NO	0.7780	10.185	34.82	34.81	1.014	178	89.5	0.450					
70	13C-1,2,3,8,7,8-HxCDD	4.88e5	1.21	NO	1.0187	10.185	34.83	34.82	1.017	178	90.7	0.345					
71	13C-1,2,3,7,8-HxCDD	4.33e5	1.17	NO	0.8027	10.185	35.20	35.20	1.025	178	90.5	0.388					
72	13C-1,2,3,4,6,7,8-HxCDD	2.73e5	1.07	NO	0.8882	10.185	38.73	38.73	1.128	147	75.0	0.556					
73	13C-OCDD	4.17e5	0.88	NO	0.8521	10.185	41.75	41.73	1.215	237	80.5	0.418					
74	13C-2,3,7,8-TCDF	1.12e5	0.79	NO	1.0580	10.185	25.52	25.57	0.991	233	119	0.354					
75	13C-1,2,3,7,8-PnCDF	9.10e5	1.58	NO	0.8380	10.185	30.04	30.15	1.189	230	122	0.810					

Name	RT	Int	Area	Area%	Height	Width	Height	Area	Area%	Height	Width	Height

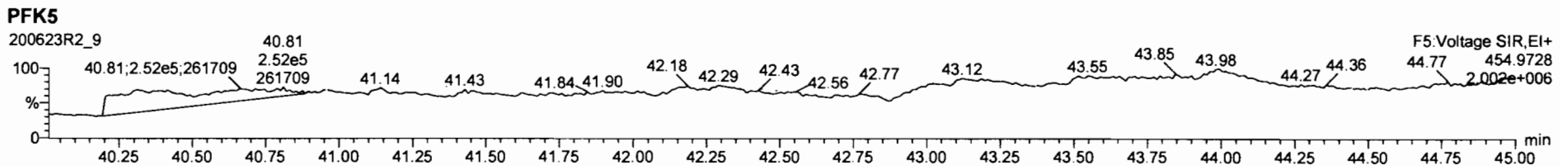
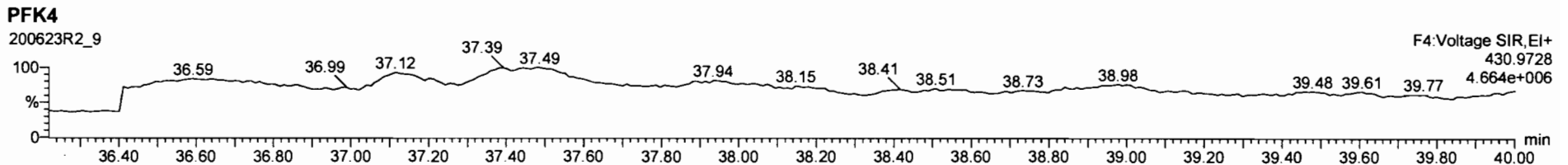
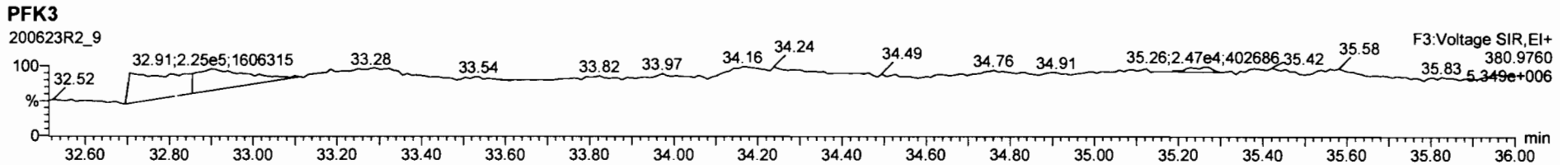
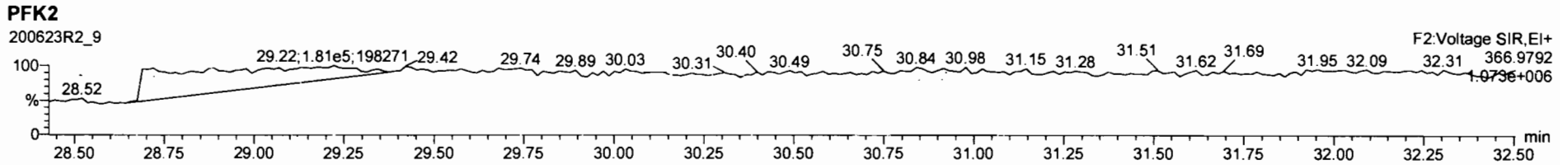
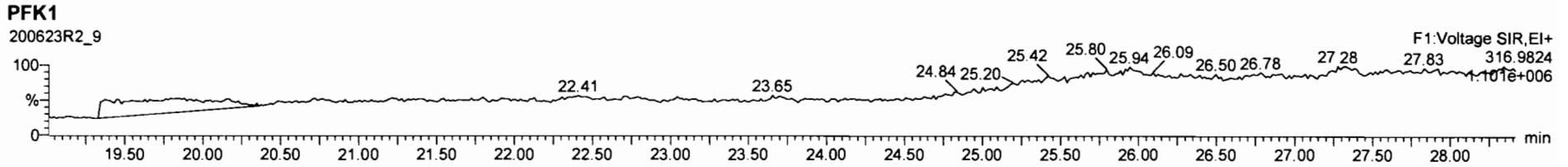


Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_9, Date: 23-Jun-2020, Time: 21:15:03, ID: B0E0145-DUP1 Duplicate 15.62, Description: Duplicate



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-10B.qld

Last Altered: Friday, June 26, 2020 9:36:30 AM Pacific Daylight Time
Printed: Friday, June 26, 2020 9:36:54 AM Pacific Daylight Time

HN 06/26/2020

C107/17/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

#	Name	Resp	RA	n/y	RRF	w/w%	Pred.RT	RT	Pred.RRT	RRT	Conc	Stdev	DL	EMPC
1	2,3,7,8-TCDD			NO	0.888	10.102	26.515		1.001				0.0682	
2	1,2,3,7,8-PeCDD			NO	0.908	10.102	31.473		1.001				0.0632	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.102	34.846		1.000				0.115	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.102	34.942		1.000				0.122	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.102	35.230		1.000				0.136	
6	1,2,3,4,6,7,8-HpCDD			NO	0.864	10.102	38.778		1.000				0.174	
7	OCDD	1.51e3	0.82	NO	0.914	10.102	41.769	41.79	1.000	1.001	1.7634		0.213	1.76
8	2,3,7,8-TCDF			NO	0.751	10.102	25.612		1.001				0.0463	
9	1,2,3,7,8-PeCDF			NO	0.893	10.102	30.190		1.001				0.0366	
10	2,3,4,7,8-PeCDF			NO	0.935	10.102	31.176		1.001				0.0366	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.102	33.952		1.000				0.0442	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.102	34.089		1.000				0.0377	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.102	34.700		1.001				0.0437	
14	1,2,3,7,8,9-HxCDF	1.06e2	0.66	YES	0.871	10.102	35.581	35.58	1.000	1.000	0.062803		0.0262	0.0452
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.102	37.397		1.001				0.0774	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.102	39.320		1.000				0.0969	
17	OCDF			NO	0.806	10.102	41.961		1.000				0.129	
18	13C-2,3,7,8-TCDD	6.74e5	0.78	NO	1.16	10.102	26.507	26.48	1.026	1.025	208.74	105	0.243	
19	13C-1,2,3,7,8-PeCDD	5.56e5	0.62	NO	0.849	10.102	31.692	31.45	1.227	1.218	234.60	119	0.397	
20	13C-1,2,3,4,7,8-HxCDD	3.38e5	1.28	NO	0.779	10.102	34.840	34.84	1.014	1.014	168.09	84.9	0.549	
21	13C-1,2,3,6,7,8-HxCDD	4.41e5	1.27	NO	1.02	10.102	34.954	34.94	1.017	1.017	167.96	84.8	0.421	
22	13C-1,2,3,7,8,9-HxCDD	3.89e5	1.17	NO	0.903	10.102	35.225	35.22	1.025	1.025	166.63	84.2	0.474	
23	13C-1,2,3,4,6,7,8-HpCDD	2.56e5	1.02	NO	0.689	10.102	38.750	38.77	1.128	1.128	143.82	72.6	0.424	
24	13C-OCDD	3.72e5	0.90	NO	0.652	10.102	41.773	41.77	1.216	1.216	220.92	55.8	0.510	
25	13C-2,3,7,8-TCDF	7.76e5	0.77	NO	1.06	10.102	25.549	25.59	0.989	0.991	177.76	89.8	0.378	
26	13C-1,2,3,7,8-PeCDF	8.55e5	1.58	NO	0.838	10.102	30.076	30.17	1.165	1.168	247.59	125	0.814	
27	13C-2,3,4,7,8-PeCDF	8.09e5	1.57	NO	0.817	10.102	31.029	31.15	1.202	1.206	240.49	121	0.836	
28	13C-1,2,3,4,7,8-HxCDF	4.60e5	0.51	NO	1.01	10.102	33.971	33.95	0.989	0.988	176.62	89.2	0.933	
29	13C-1,2,3,6,7,8-HxCDF	5.41e5	0.52	NO	1.17	10.102	34.095	34.08	0.992	0.992	179.35	90.6	0.806	
30	13C-2,3,4,6,7,8-HxCDF	4.64e5	0.51	NO	1.02	10.102	34.669	34.67	1.009	1.009	175.64	88.7	0.920	
31	13C-1,2,3,7,8,9-HxCDF	3.85e5	0.51	NO	0.860	10.102	35.569	35.58	1.035	1.036	173.16	87.5	1.09	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-10B.qld

Last Altered: Friday, June 26, 2020 9:36:30 AM Pacific Daylight Time

Printed: Friday, June 26, 2020 9:36:54 AM Pacific Daylight Time

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	Min/Sec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.11e5	0.43	NO	0.774	10.102	37.317	37.36	1.086	1.087	155.47	78.5	0.596	
33	13C-1,2,3,4,7,8,9-HpCDF	1.84e5	0.45	NO	0.521	10.102	39.348	39.32	1.145	1.144	136.85	69.1	0.886	
34	13C-OCDF	4.27e5	0.83	NO	0.746	10.102	41.945	41.96	1.221	1.221	221.57	56.0	0.343	
35	37Cl-2,3,7,8-TCDD	2.73e5			1.04	10.102	26.538	26.50	1.028	1.026	94.322	119	0.113	
36	13C-1,2,3,4-TCDD	5.53e5	0.80	NO	1.00	10.102	25.890	25.83	1.000	1.000	197.97	100	0.281	
37	13C-1,2,3,4-TCDF	8.16e5	0.78	NO	1.00	10.102	24.360	24.13	1.000	1.000	197.97	100	0.400	
38	13C-1,2,3,4,6,9-HxCDF	5.12e5	0.50	NO	1.00	10.102	34.420	34.36	1.000	1.000	197.97	100	0.940	
39	Total Tetra-Dioxins				0.888	10.102	24.620		0.000				0.0440	
40	Total Penta-Dioxins				0.908	10.102	29.960		0.000				0.0311	
41	Total Hexa-Dioxins				0.892	10.102	33.635		0.000		0.12634		0.0782	0.126
42	Total Hepta-Dioxins				0.864	10.102	37.640		0.000		0.30138		0.0840	0.301
43	Total Tetra-Furans				0.751	10.102	23.610		0.000				0.0216	
44	1st Func. Penta-Furans				0.893	10.102	27.580		0.000				0.00989	
45	Total Penta-Furans				0.893	10.102	29.275		0.000				0.0142	
46	Total Hexa-Furans				0.934	10.102	33.555		0.000		0.00000		0.0187	0.0452
47	Total Hepta-Furans				0.873	10.102	37.835		0.000				0.0450	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-10B.qld

Last Altered: Friday, June 26, 2020 9:36:30 AM Pacific Daylight Time

Printed: Friday, June 26, 2020 9:36:54 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Callbration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.35	2.692e3	2.090e3	1.192e2	1.025e2	1.16	NO	2.217e2	0.12634	0.12634	0.0782

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.80	2.561e3	2.868e3	1.701e2	1.668e2	1.02	NO	3.368e2	0.30138	0.30138	0.0840

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-10B.qld

Last Altered: Friday, June 26, 2020 9:36:30 AM Pacific Daylight Time

Printed: Friday, June 26, 2020 9:36:54 AM Pacific Daylight Time

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,7,8,9-HxCDF	35.58	9.310e2	1.442e3	4.228e1	6.395e1	0.66	YES	1.062e2	0.00000	0.045157	0.0282

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL

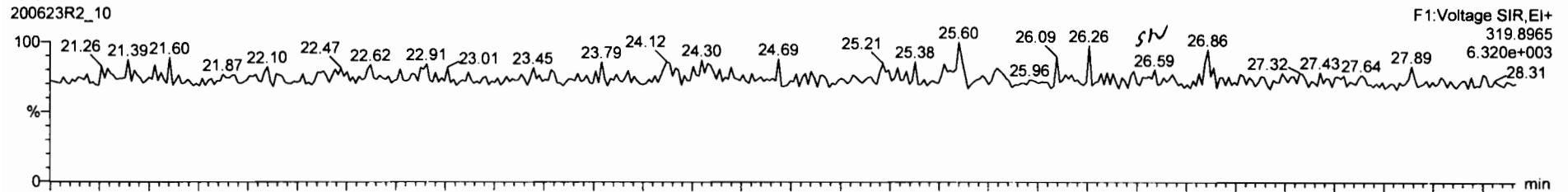
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

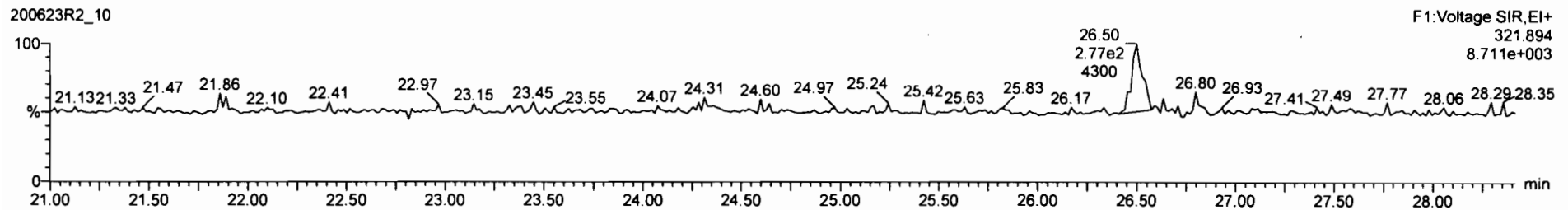
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2,3,7,8-TCDD

200623R2_10

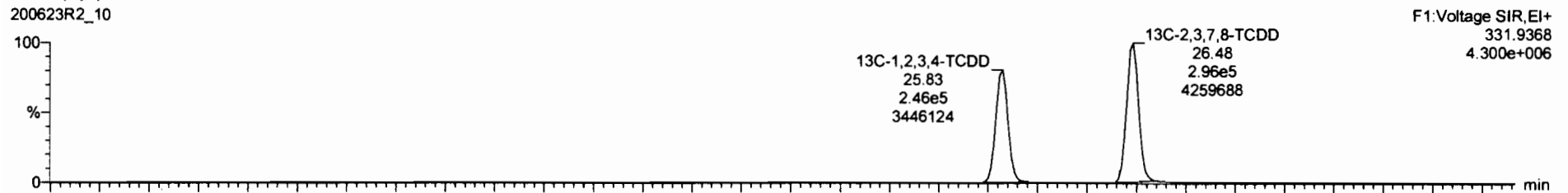


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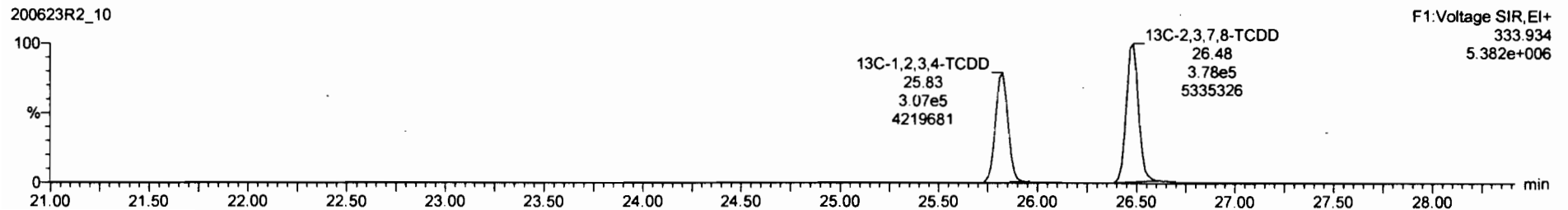


13C-2,3,7,8-TCDD

200623R2_10

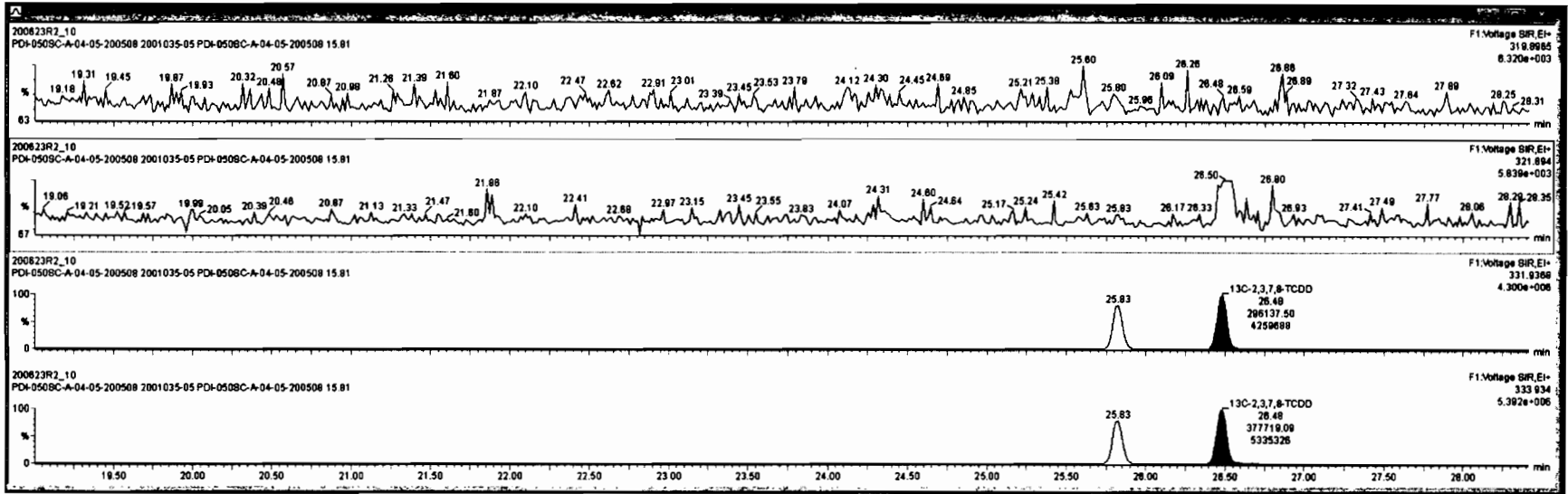


200623R2_10



RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
20	Total Penta-Dioxins	0.8091	10.102	28.80					0.0311
21	Total Hexa-Dioxins	0.8623	10.102	33.63					0.0792
22	Total Hepta-Dioxins	0.8630	10.102	37.84					0.0840
23	Total Toluene-Furans	0.7510	10.102	23.81					0.0218
24	1st Func. Penta-Furans	0.8825	10.102	27.58					0.0388
25	Total Penta-Furans	0.8825	10.102	29.27					0.0142
26	Total Hexa-Furans	0.8341	10.102	33.96					0.0187
27	Total Hepta-Furans	0.8734	10.102	37.83					0.0450
28	PFK1								

RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
28									



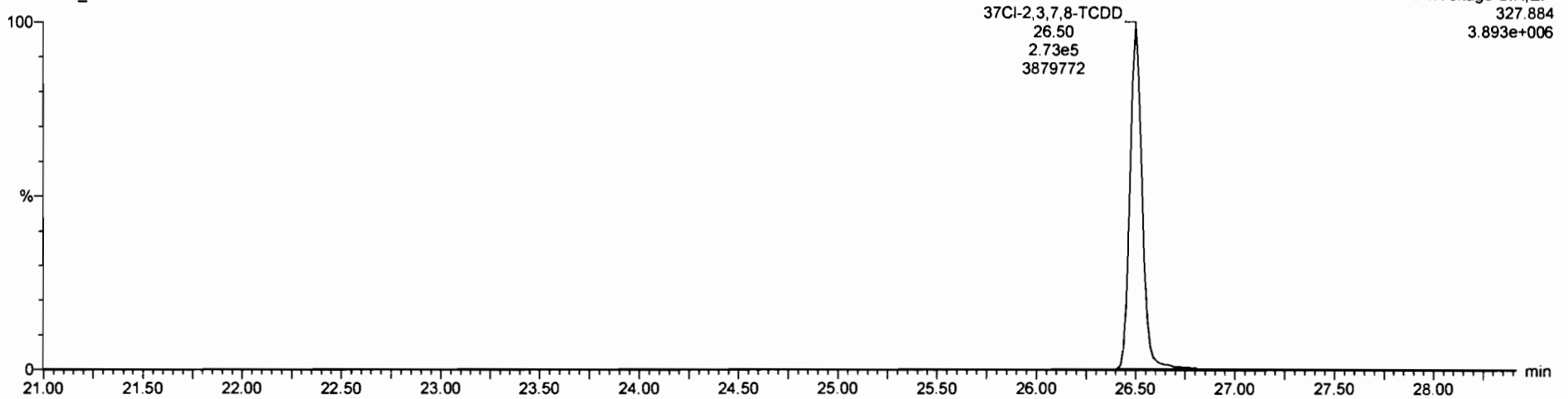
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

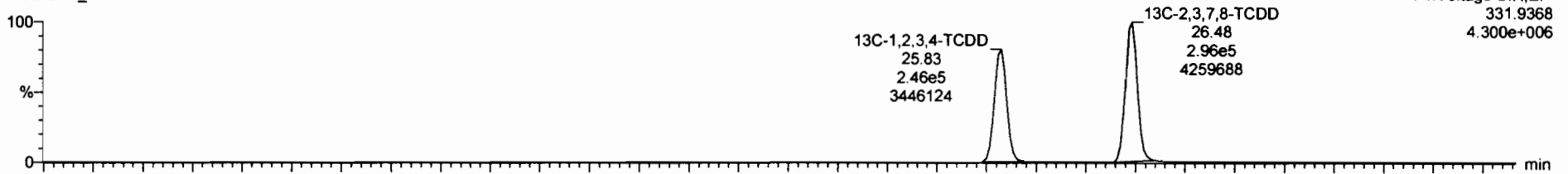
37Cl-2,3,7,8-TCDD

200623R2_10

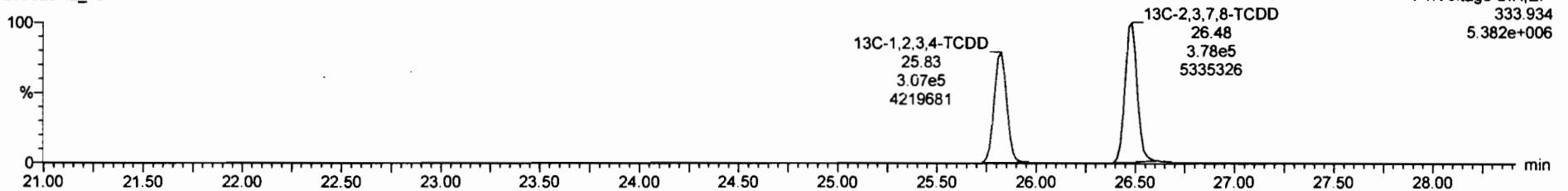


13C-1,2,3,4-TCDD

200623R2_10



200623R2_10



Dataset: Untitled

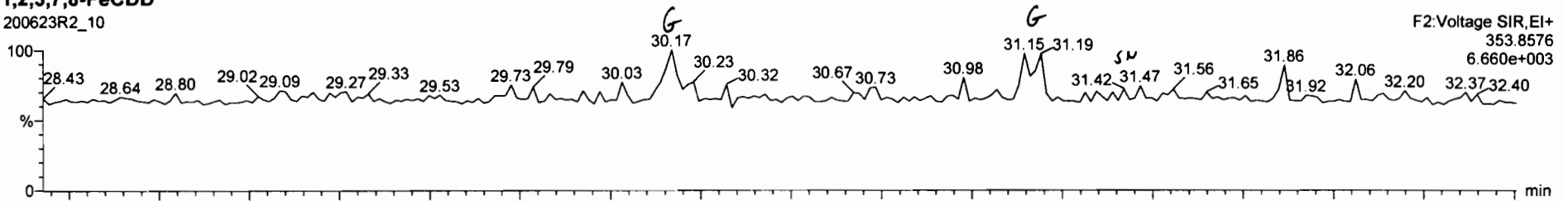
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

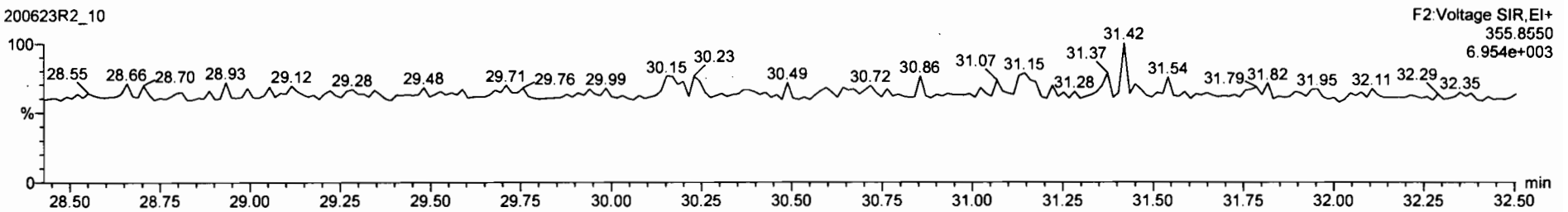
Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

1,2,3,7,8-PeCDD

200623R2_10

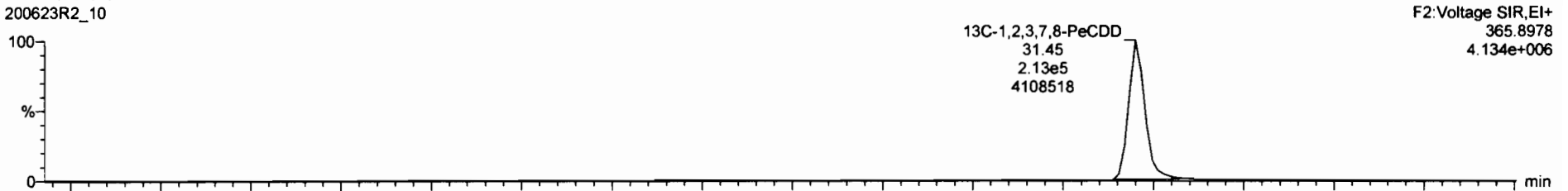


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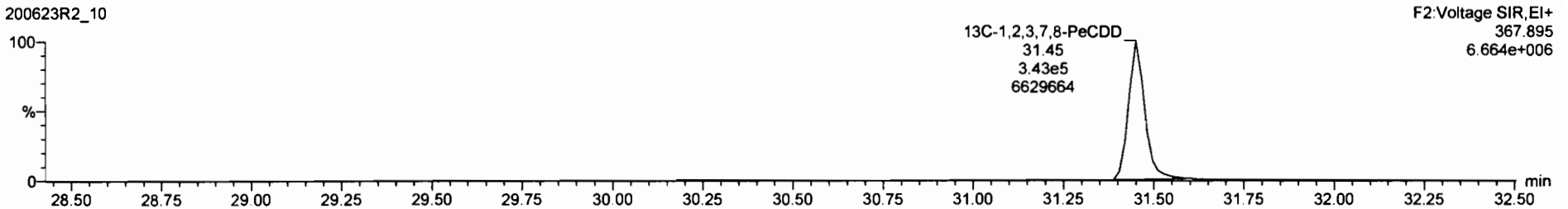


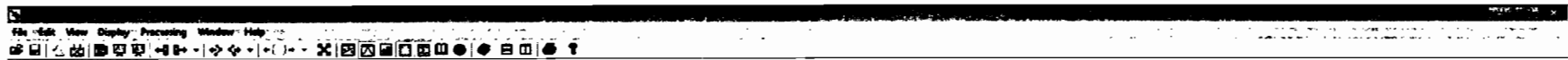
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200623R2_10



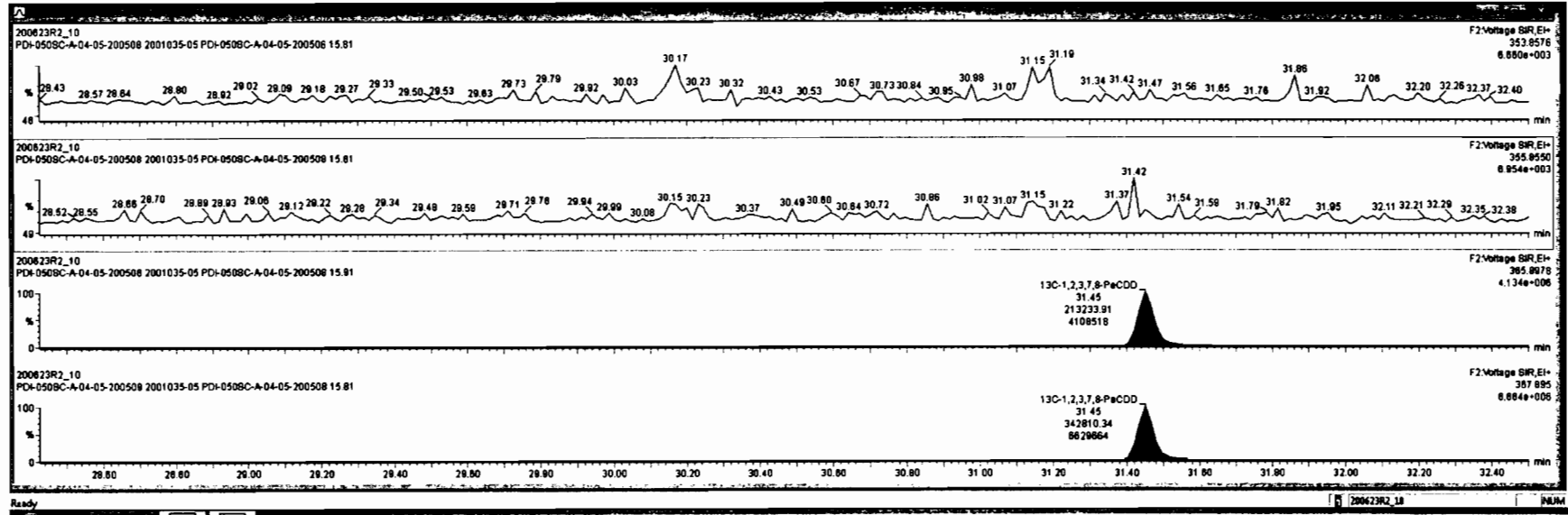
200623R2_10





Peak #	Name	Area	Height	W	Ret	Integ	Ident	Ref	Conc	Unit	St	Comp
13C-1	2,3,4-TCDF	8.16e5	0.78	NO	1.0000	10.102	24.36	24.13	1.000	199	100	0.400
13C-1	2,3,4,8,9-HxCDF	5.12e5	0.50	NO	1.0000	10.102	34.42	34.36	1.000	199	100	0.840
25	Total Tetra-Chloro				0.8983	10.102	24.82					0.0440
42	Total Hexa-Chloro				0.8923	10.102	33.83					0.0782
43	Total Hepta-Chloro				0.8638	10.102	37.84					0.0840
44	Total Tetra-Furane				0.7510	10.102	23.81					0.0218
45	1st Func. Penta-Furane				0.8625	10.102	27.99					0.0088
46	Total Penta-Furane				0.8625	10.102	28.27					0.0142
48	Total Hexa-Furane				0.8341	10.102	33.58					0.0187

Name	RT	Integ	Area	Height	W	Ret	Comp	Ident



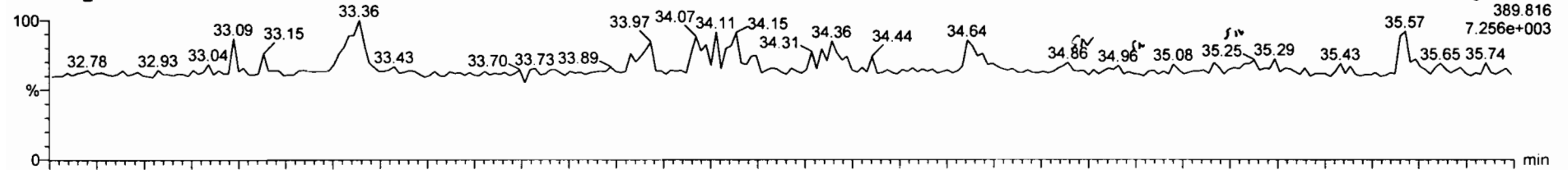
Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

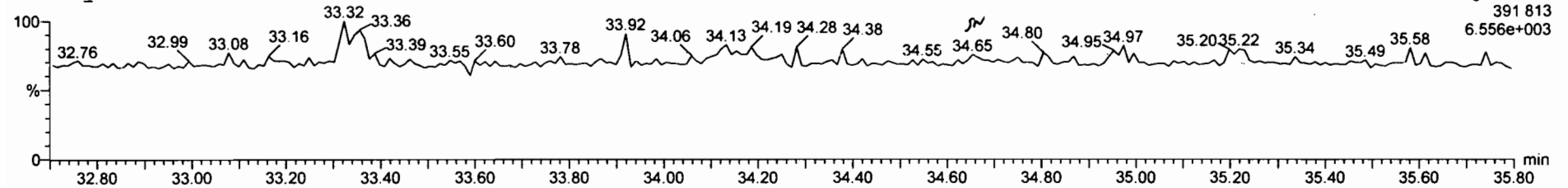
Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

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

200623R2_10



200623R2_10

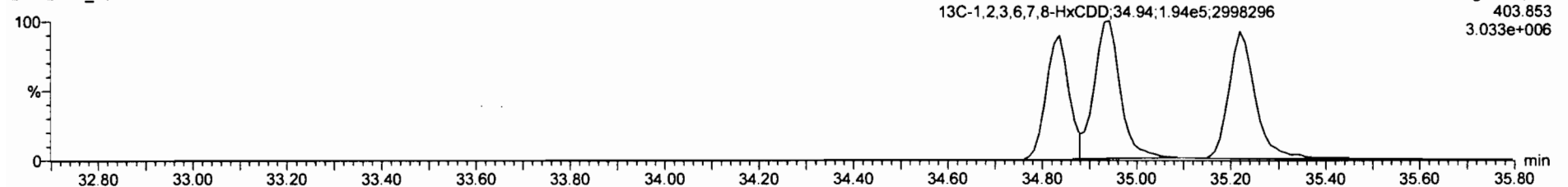


13C-1,2,3,4,7,8-HxCDD

200623R2_10

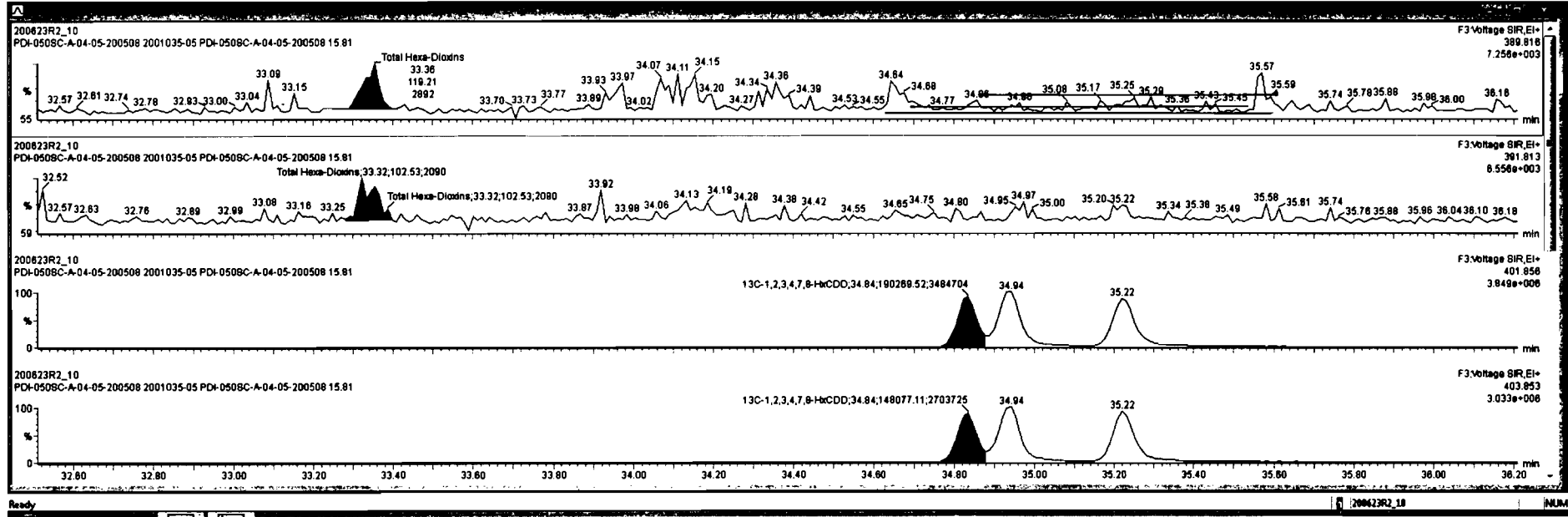


200623R2_10



Comp	Method	Resp	Yld	Int	Area	Height	Area%	Height%	Area	Height	Area%	Height%
13C-1,2,3,4-TCDF	6.18e5	0.78	NO	1.0000	10.102	24.36	24.13	1.000	198	100	0.400	
13C-1,2,3,4,6,9-HxCDF	5.12e5	0.50	NO	1.0000	10.102	34.42	34.38	1.000	198	100	0.840	
Total Tetra-Dioxins				0.8983	10.102	24.82					0.0440	
Total Penta-Dioxins				0.9091	10.102	29.98					0.0311	
Total Hepta-Dioxins				0.8638	10.102	37.84					0.0840	
Total Tetra-Furans				0.7510	10.102	23.81					0.0218	
1st Func. Penta-Furans				0.8625	10.102	27.58					0.0089	
Total Penta-Furans				0.8625	10.102	28.27					0.0142	
Total Hexa-Furans				0.8341	10.102	33.58					0.0187	

Comp	RT	Int Resp	Int Resp	Yld	Area%	Comp
Total Hexa-Dioxins	33.36	1.192e2	1.025e2	1.18	NO	0.12634



Dataset: Untitled

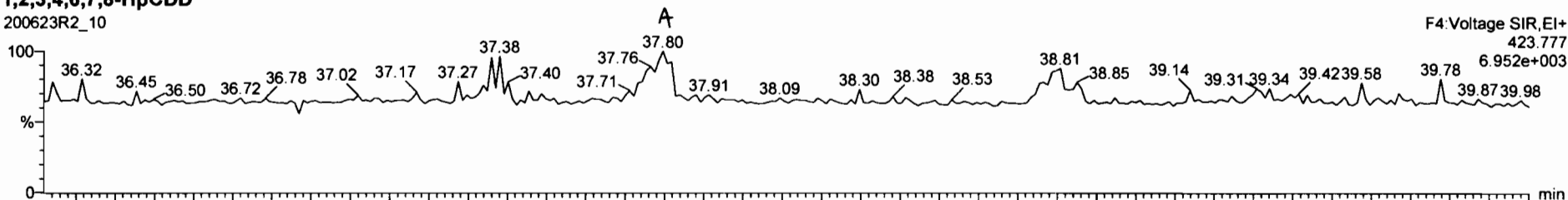
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

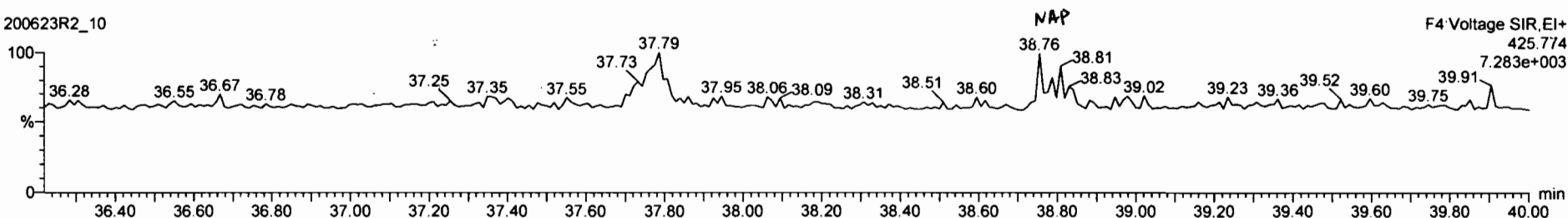
Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

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

200623R2_10

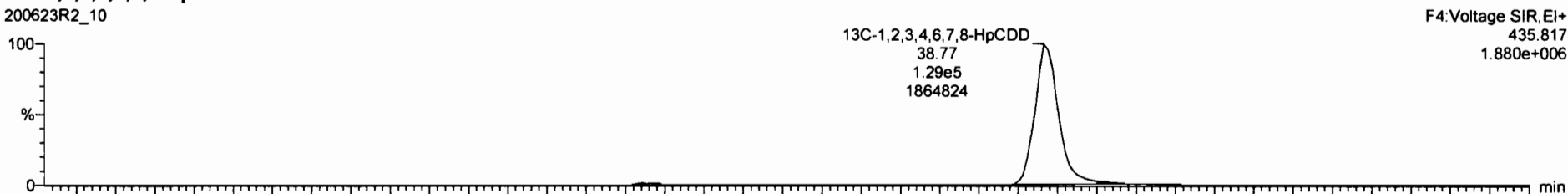


200623R2_10

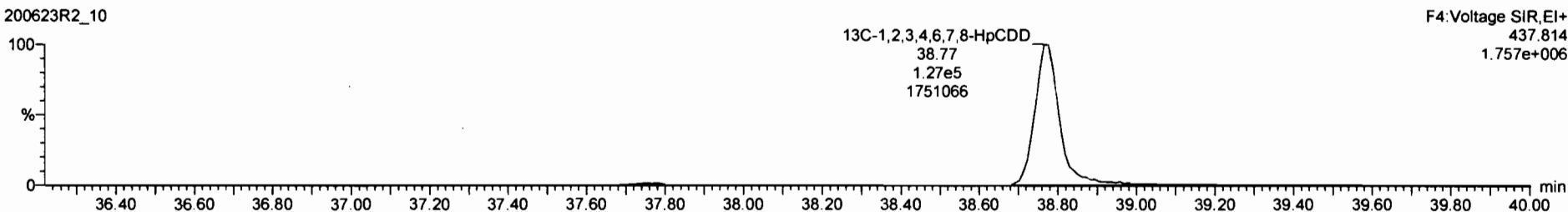


13C-1,2,3,4,6,7,8-HpCDD

200623R2_10



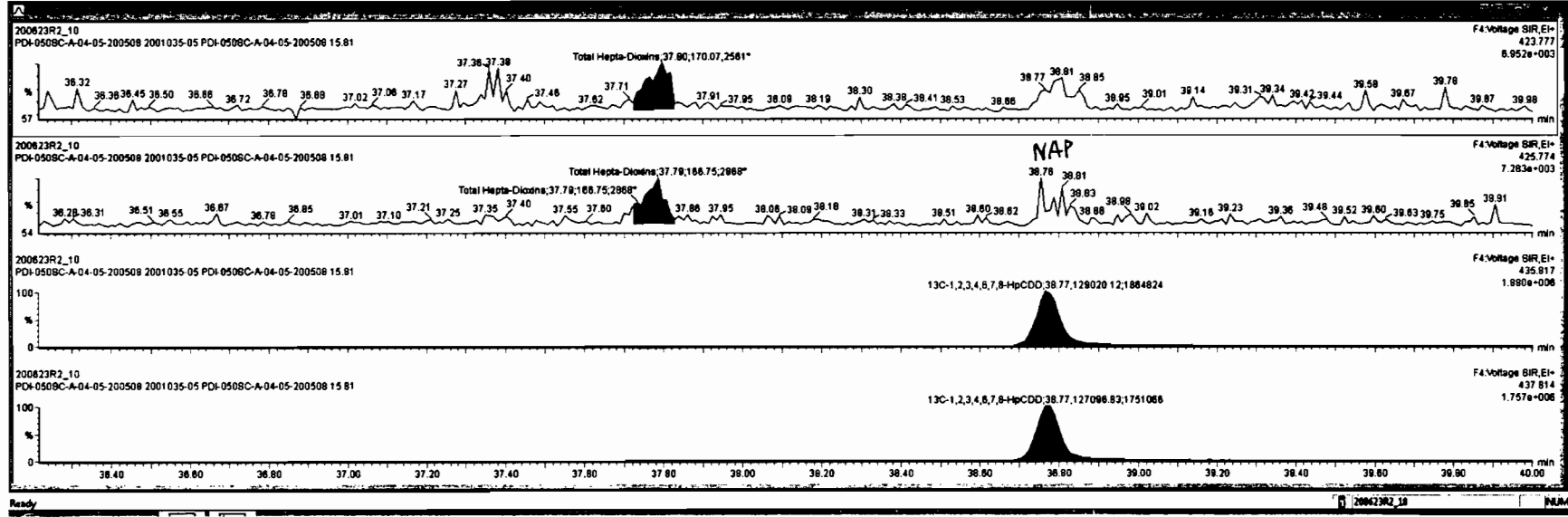
200623R2_10





Sample	Temp	Flow	Length	Concn	Concn	Concn	Concn	Concn	Concn	Concn	Concn
13C-1,2,3,4-TCDF	0.1665	0.78	NO	1.0000	10.102	24.28	24.13	1.000	199	100	0.400
13C-1,2,3,4,8,9-HxCDF	5.1265	0.50	NO	1.0000	10.102	34.42	34.38	1.000	199	100	0.940
Total Tetra-Dioxins				0.0663	10.102	24.82					0.0440
Total Penta-Dioxins				0.00281	10.102	28.98					0.0311
Total Hexa-Dioxins				0.06223	10.102	33.83		0.126			0.0782 0.126
Total Tetra-Furans				0.7510	10.102	23.81					0.0216
1st Func. Penta-Furans				0.06225	10.102	27.98					0.00698
Total Penta-Furans				0.06225	10.102	28.27					0.0142
Total Hexa-Furans				0.0341	10.102	33.98					0.0187

Sample	RT	Int Range	Int Range	Area	Yield	Concn	Concn
Total Hepta-Dioxins	37.80	1.722e2	1.691e2	1.02	NO	0.30448	0.30448

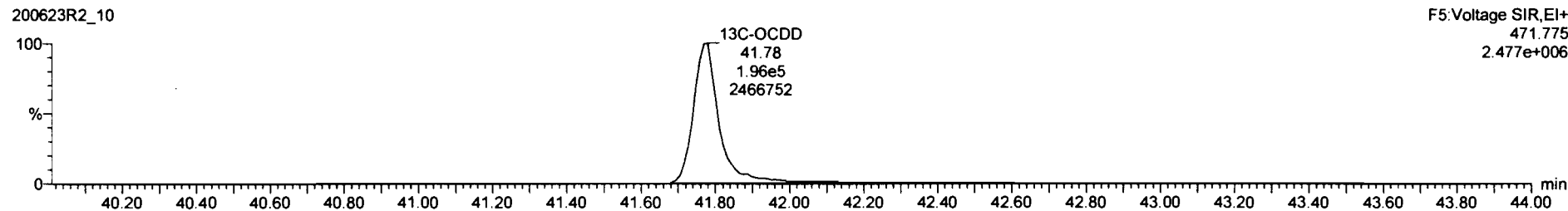
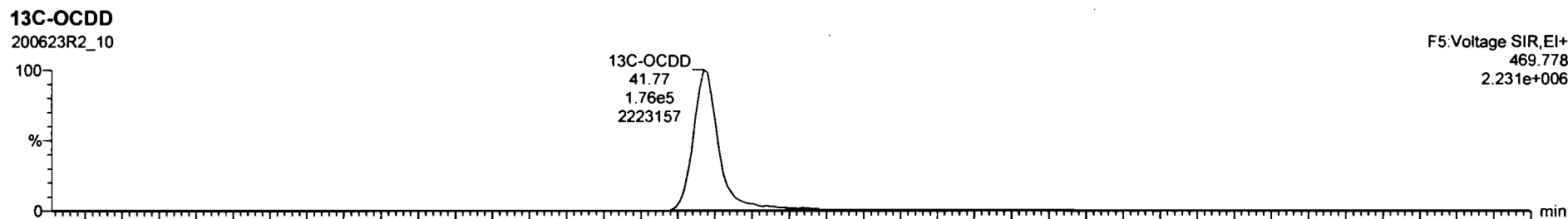
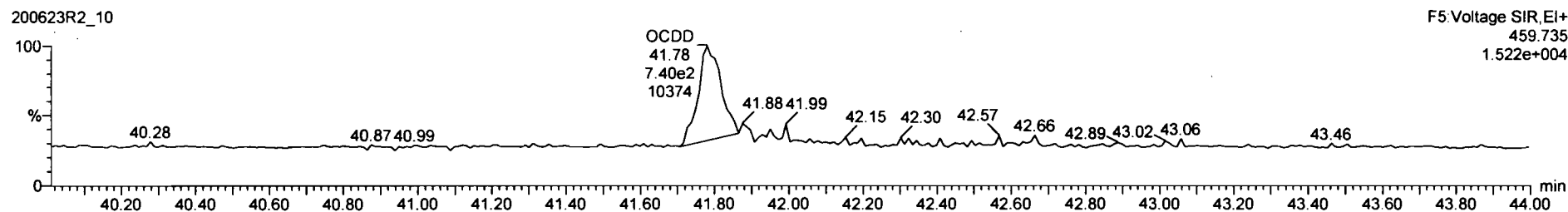
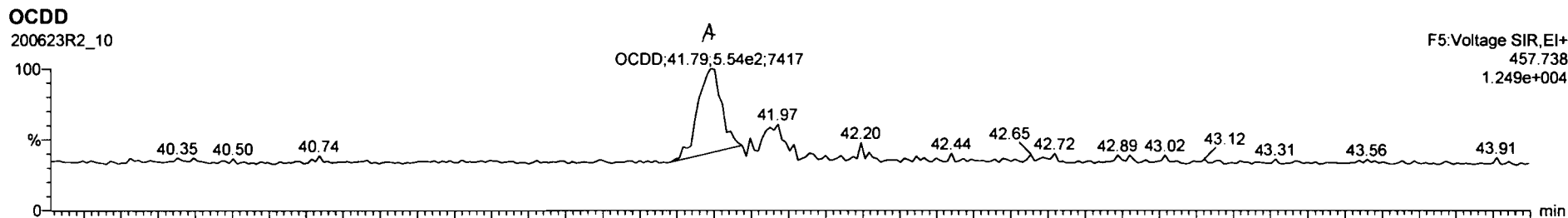


Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

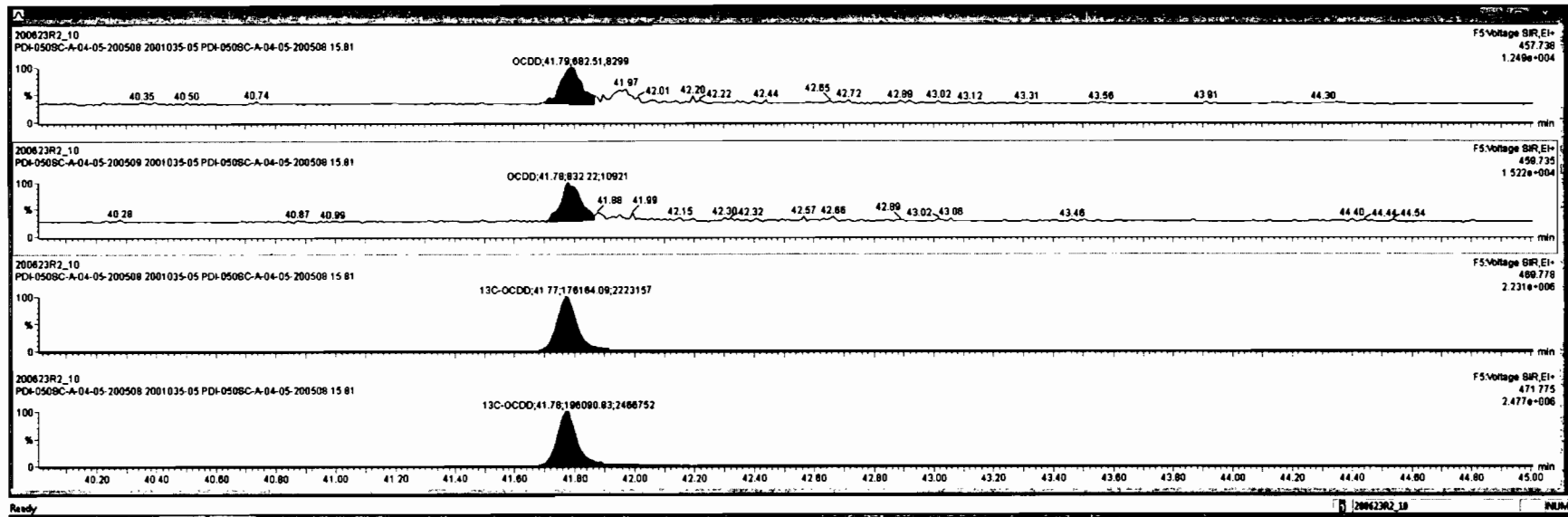
Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508





Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
7	23.78-TCDF												
8	23.78-PKCDF												
9	23.478-PKCDF												
10	23.478-PKCDF												
11	23.478-PKCDF												
12	23.478-PKCDF												
13	23.478-PKCDF												
14	23.478-PKCDF												
15	23.478-PKCDF												
16	23.478-PKCDF												
17	23.478-PKCDF												
18	23.478-PKCDF												
19	23.478-PKCDF												

Peak	RT	Area	Height	Width	Area	Height	Width	Area
7								
8								

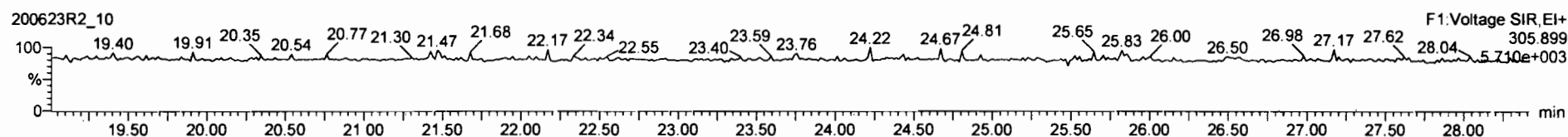
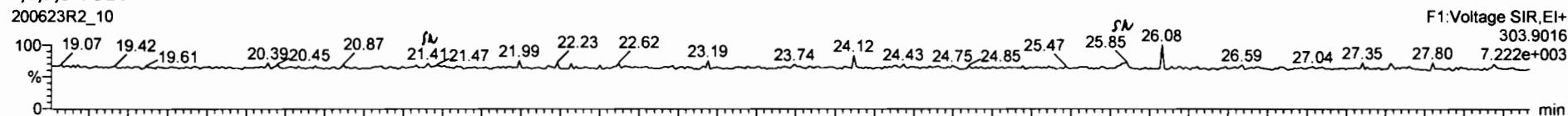


Dataset: Untitled

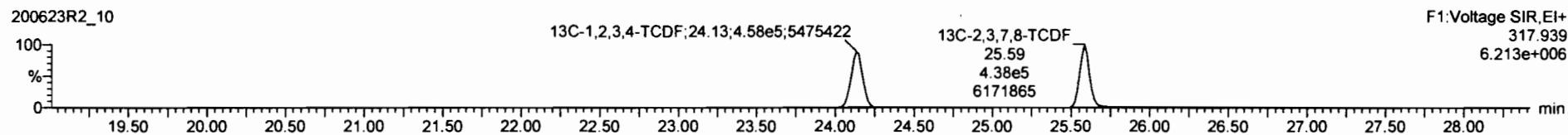
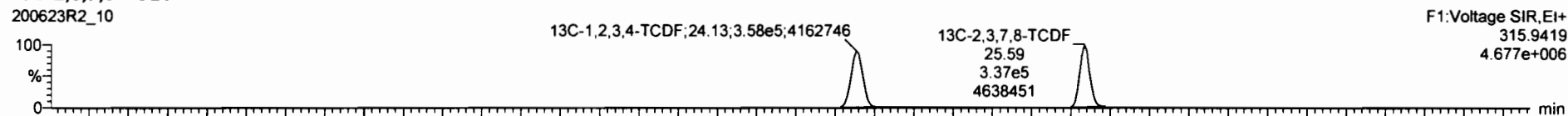
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

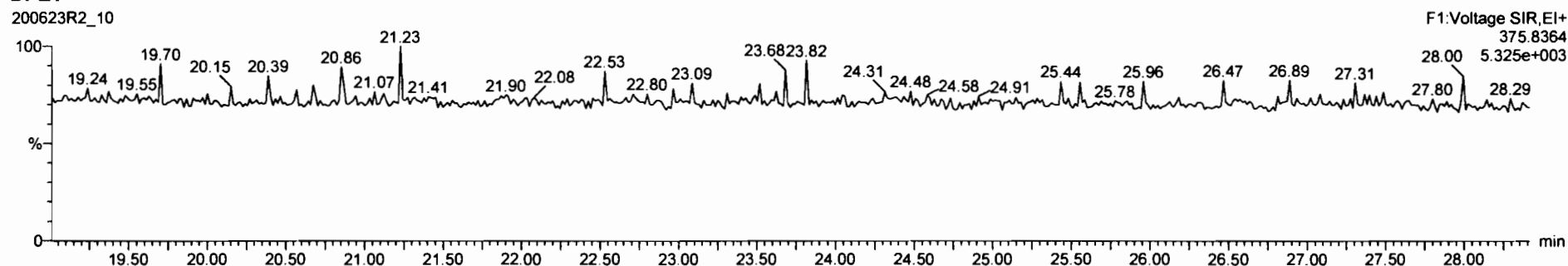
2,3,7,8-TCDF



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

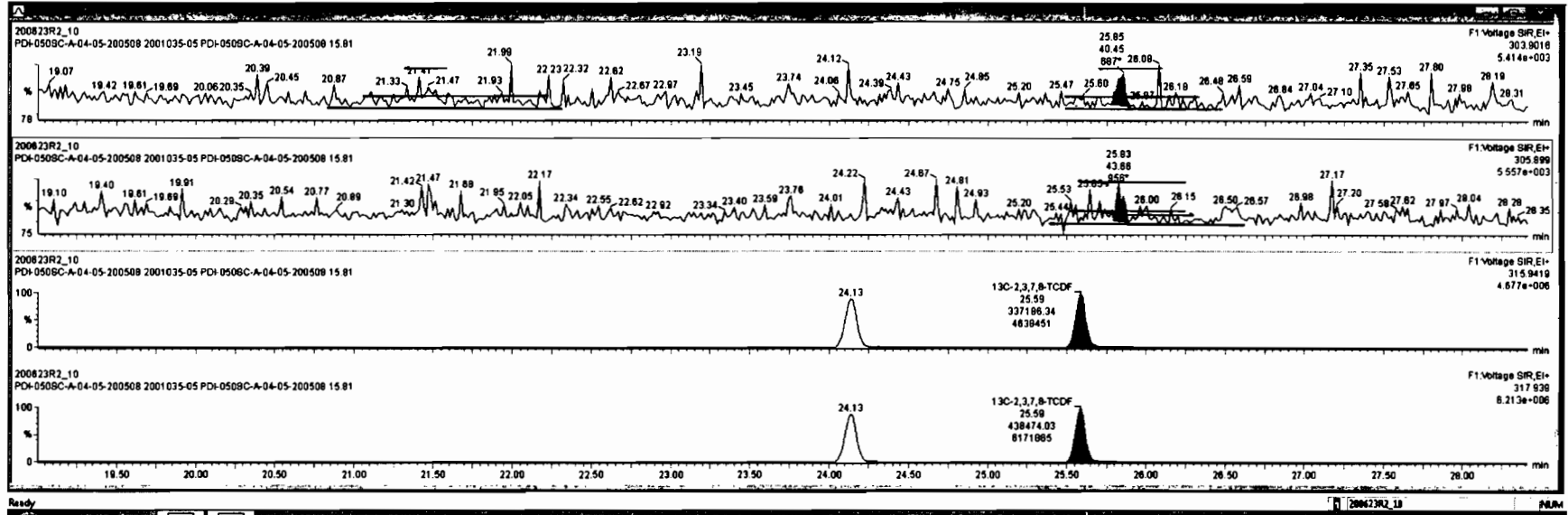


DPE1



Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration	Integration
44	Total Penta-Furans	0.8825	10.102	27.58					0.0086
45	Total Hexa-Furans	0.8825	10.102	29.27					0.0142
46	Total Hepta-Furans	0.8341	10.102	32.58					0.0187
47	Total Octa-Furans	0.8734	10.102	37.83					0.0450
48	PFK1								
49	PFK2								
50	PFK3								
51	PFK4								
52	PFK5								

Name	RT	Int Resp	Int Area	Int Hgt	Int Wd	Int SPC	Class



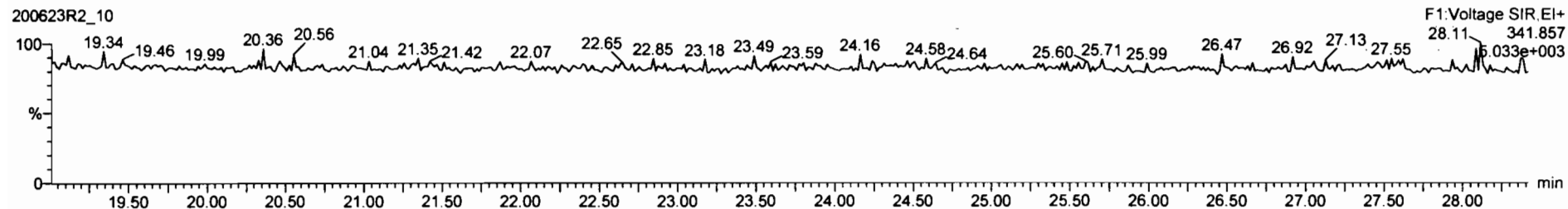
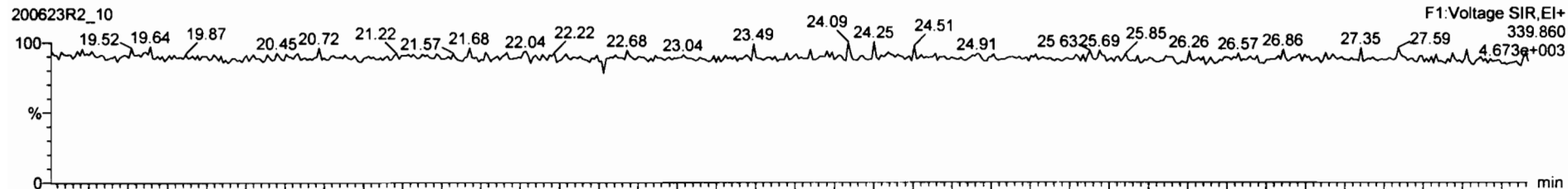
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

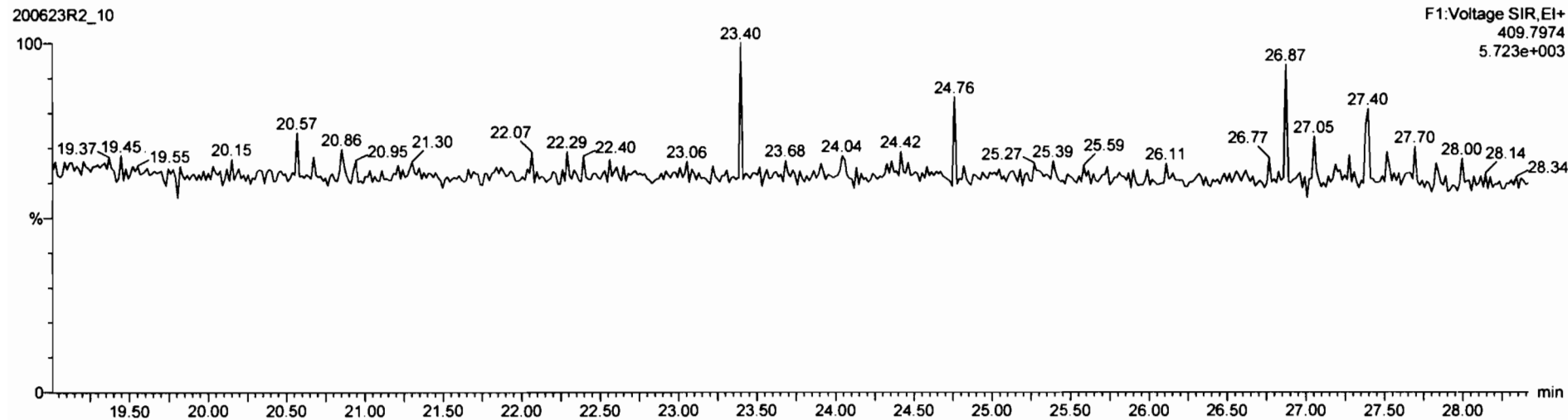
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

1st Func. Penta-Furans



DPE6



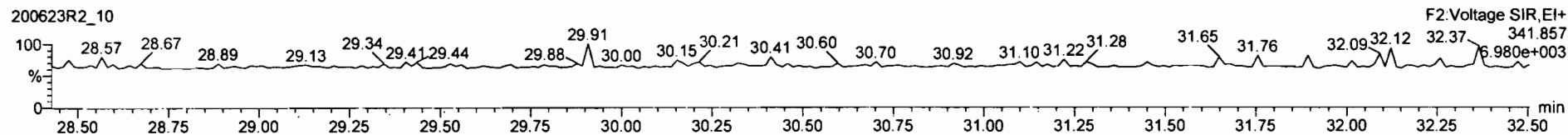
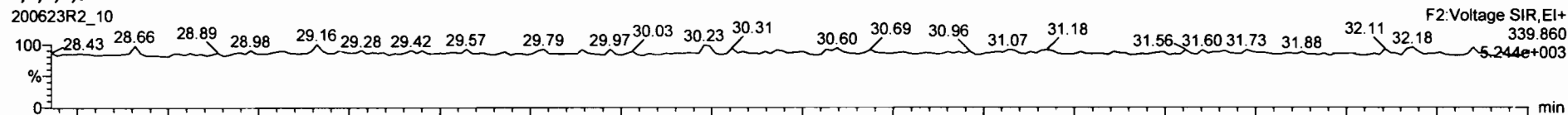
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

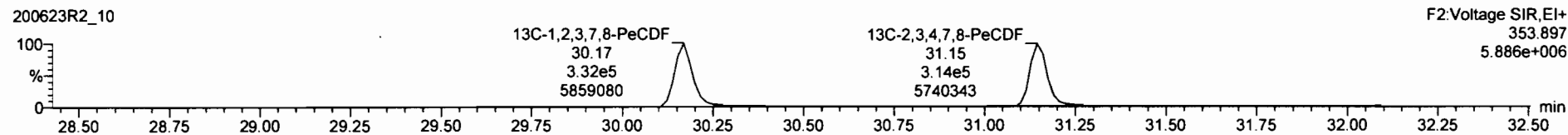
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

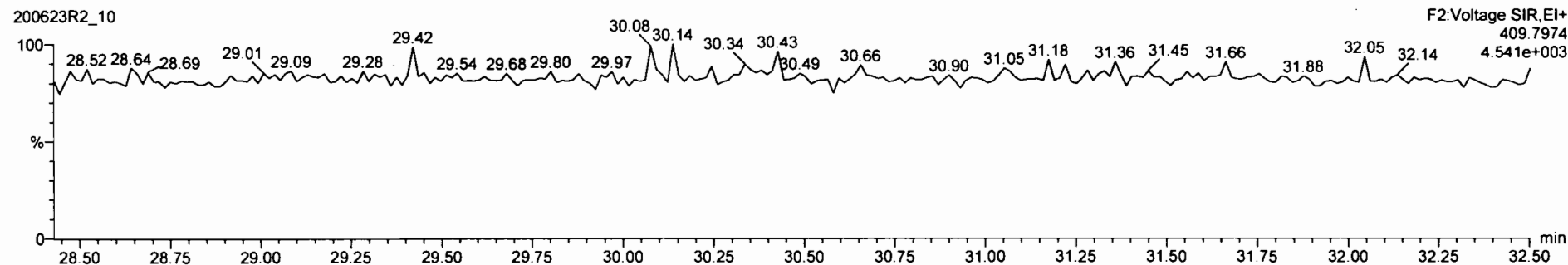
1,2,3,7,8-PeCDF



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



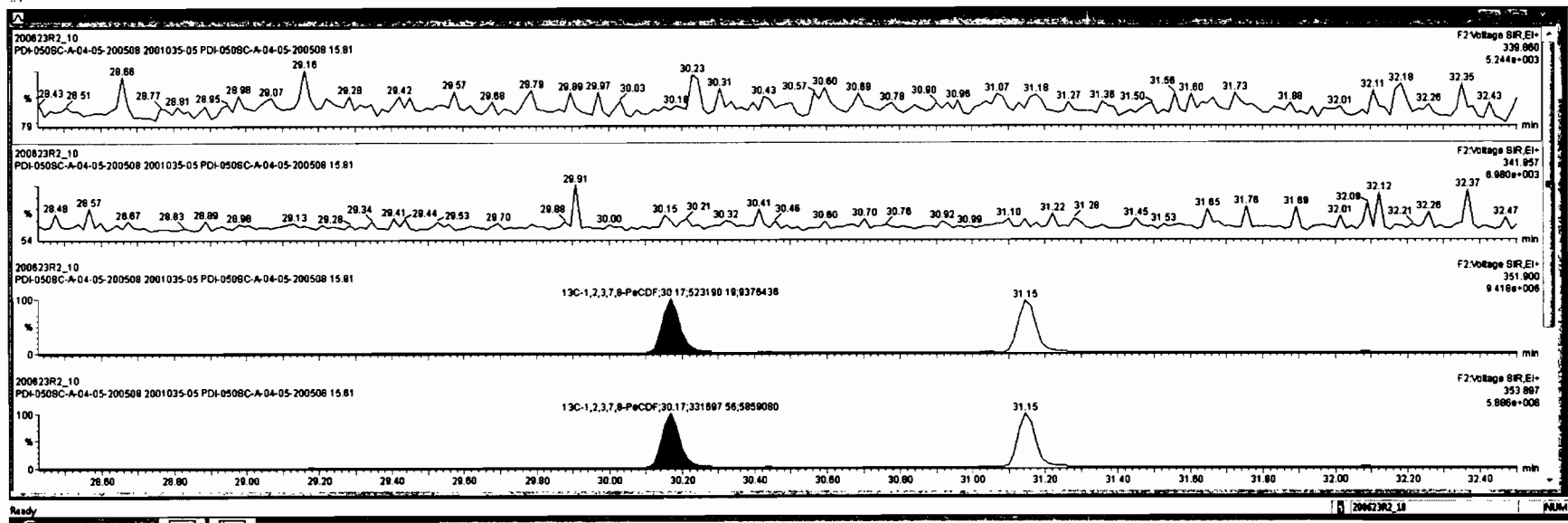
DPE2





Sample	Temp	RA	Wt	Temp	Conduct	Flow	Wt	Temp	Conduct	Flow	Wt	Temp	Conduct	Flow
43	Total Tetra-Furans			0.7510	10.102	23.91			0.000		0.0218		0.0293	
44	1st Func. Penta-Furans			0.8625	10.102	27.30					0.0089			
45	Total Hexa-Furans			0.9341	10.102	33.96					0.0187			
47	Total Hepta-Furans			0.8734	10.102	37.83					0.0450			
48	PFK1													
49	PFK2													
50	PFK3													
51	PFK4													
52	PFK5													

Name	RT	Int Resp	Ext Resp	RA	Wt	EMPC	Comp
1							

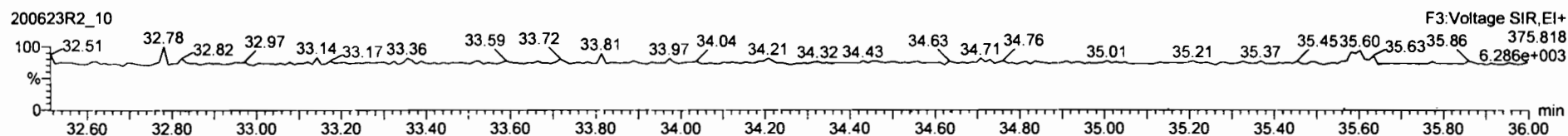
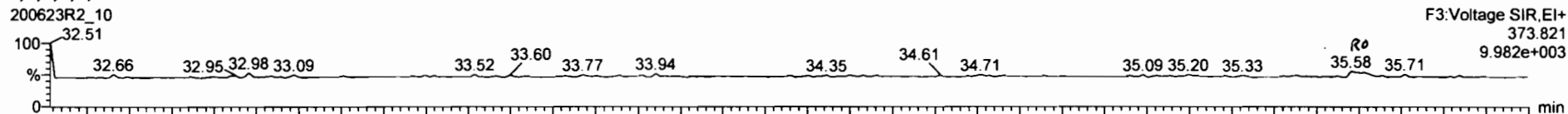


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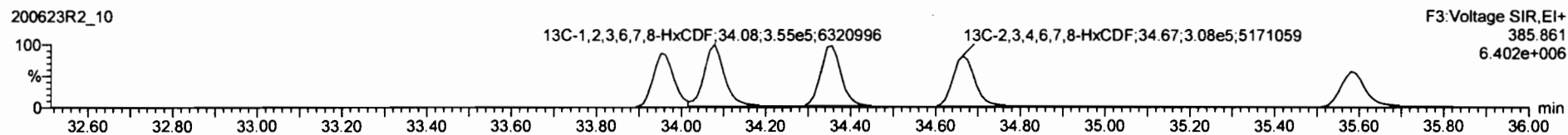
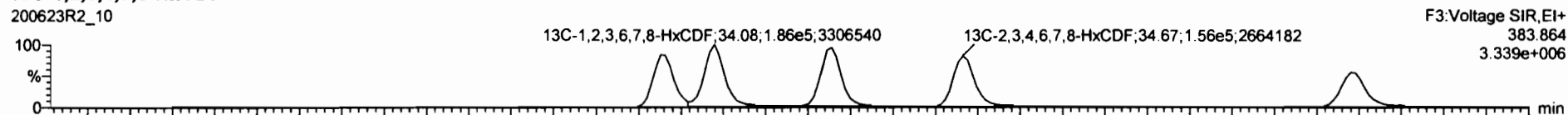
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

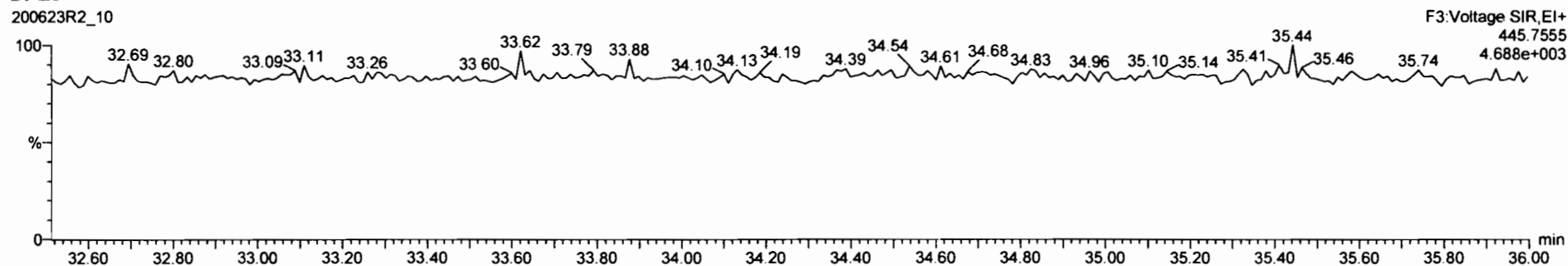
1,2,3,4,7,8-HxCDF

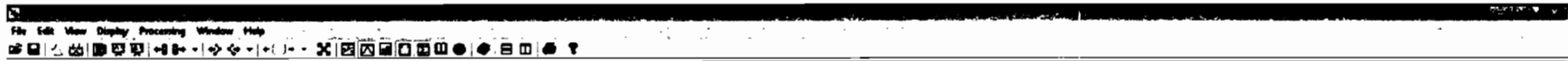


13C-1,2,3,4,7,8-HxCDF



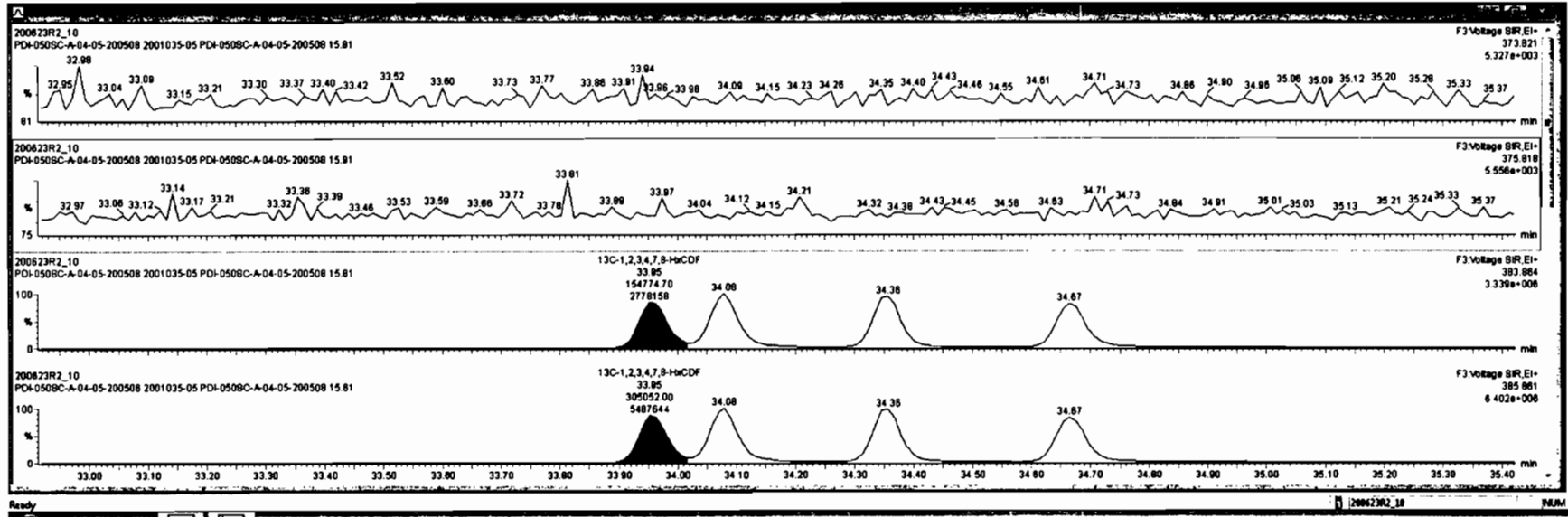
DPE3





Item	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
43	Total Tetra-Furans			0.7510	10.102	23.81				0.000	0.0216	0.0283
44	Total Penta-Furans			0.8625	10.102	27.59					0.0089	
45	Total Hexa-Furans			0.8625	10.102	29.27					0.0142	
46	Total Hepta-Furans			0.8734	10.102	37.83					0.0460	
47	PFK1											
48	PFK2											
49	PFK3											
50	PFK4											
51	PFK5											

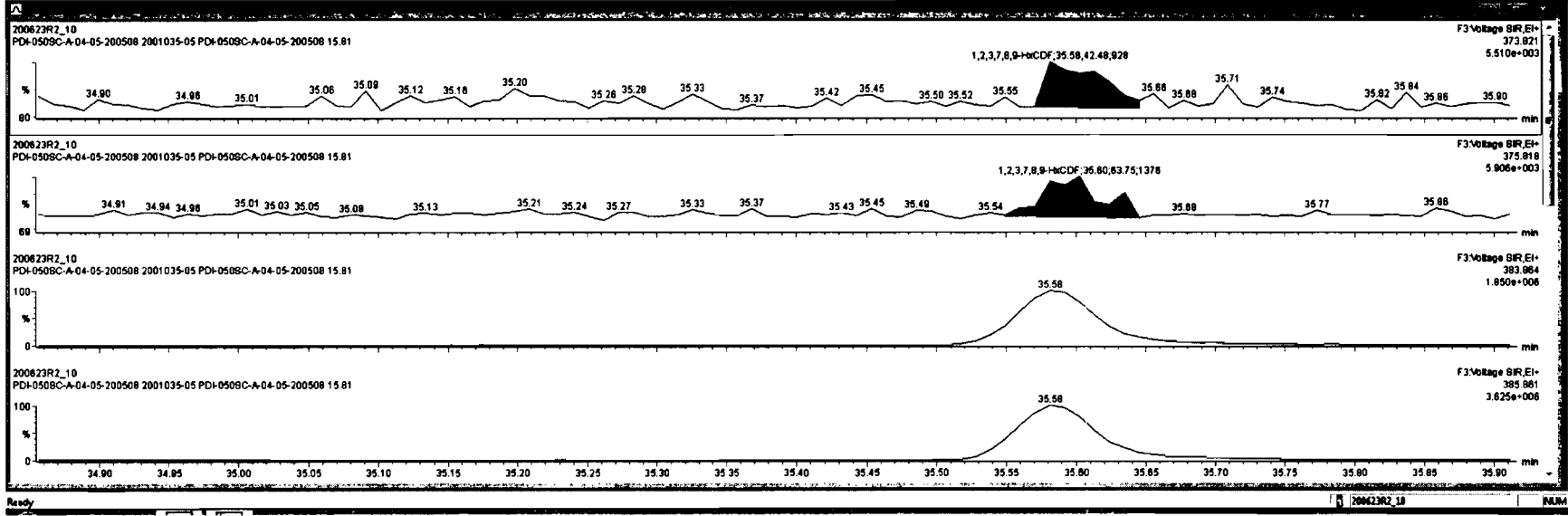
Item	RT	Int. Resp.	Std. Resp.	BA	Y/N	RP%	Conc.
1	Total Hexa-Furans	36.81	1.322e1	1.580e1	0.85	YES	0.010946
2	1,2,3,7,8,9-HxCDF	35.98	2.853e1	4.528e1	0.85	YES	0.031541





PK	Name	Area	Height	Retention	Width	Area%	Height%	Retention	Width	Area%	Height%
43	Total Toluene-Furans			0.7510	10.102	23.81				0.000	0.0218
44	1st Func. Penta-Furans			0.8825	10.102	27.58				0.00089	
45	Total Penta-Furans			0.8825	10.102	29.27				0.0142	
47	Total Hepta-Furans			0.8734	10.102	37.83				0.0460	
48	PK1										
49	PK2										
50	PK3										
51	PK4										
52	PK5										

PK	Name	Area	Height	Retention	Width	Area%	Height%	Retention	Width	Area%	Height%
6	1,2,3,7,8,9-HxCDF	35.58	4.248e1	8.375e1	0.87	YES	0.045382	0.00000			



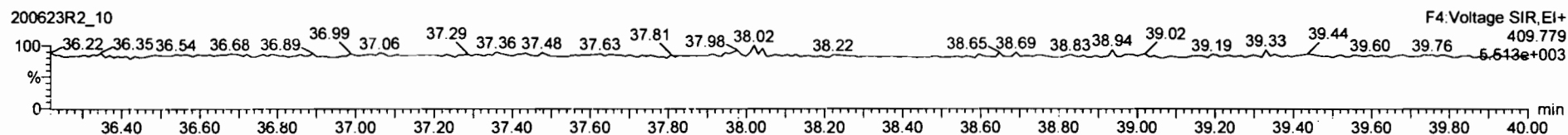
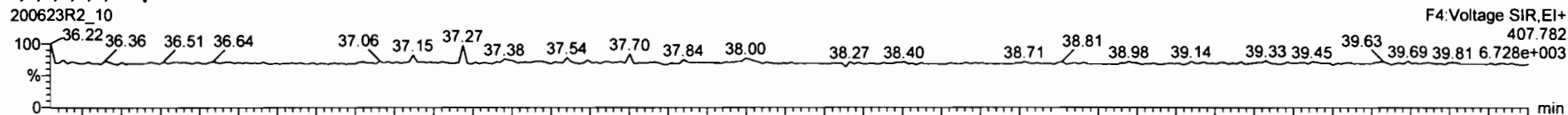
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

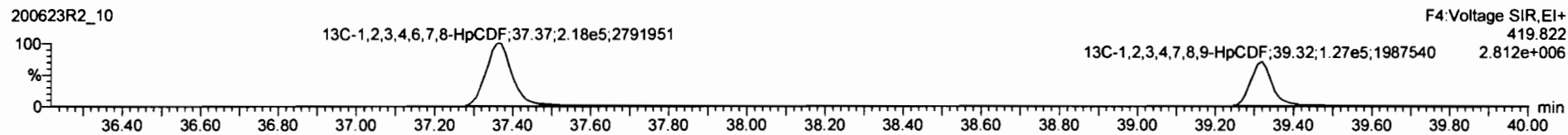
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

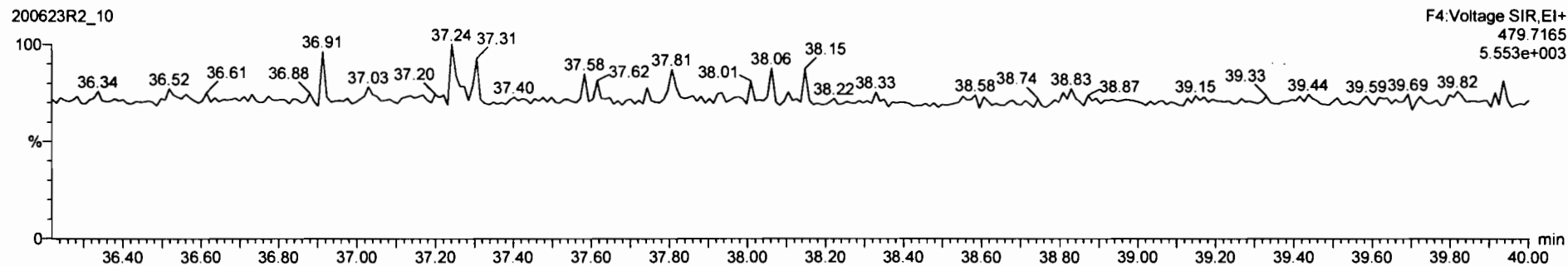
1,2,3,4,6,7,8-HpCDF



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

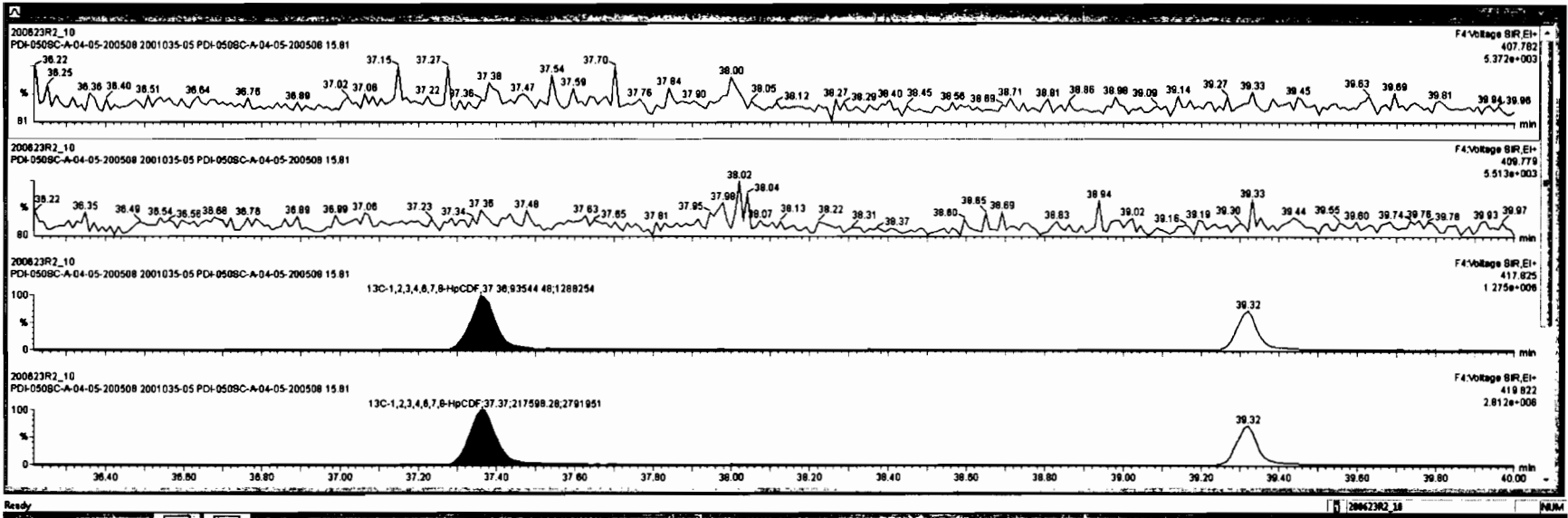


DPE4



Comp	Temp	Sh	Adj	PPV	Method	Conc	WT	Area	Area	Area	Area	Area
48	Total Tetra-Furans			0.7510	10.102	23.81			0.000		0.0218	0.0263
49	Total Penta-Furans			0.8625	10.102	27.58					0.00889	
50	Total Hexa-Furans			0.8625	10.102	28.27					0.0142	
51	Total Hepta-Furans			0.9341	10.102	33.58			0.000		0.0187	0.0454
52	PFY1											
53	PFY2											
54	PFY3											
55	PFY4											
56	PFY5											

Header	WT	wt Range	adjRange	PPV	PPV	Area	Conc.
51							

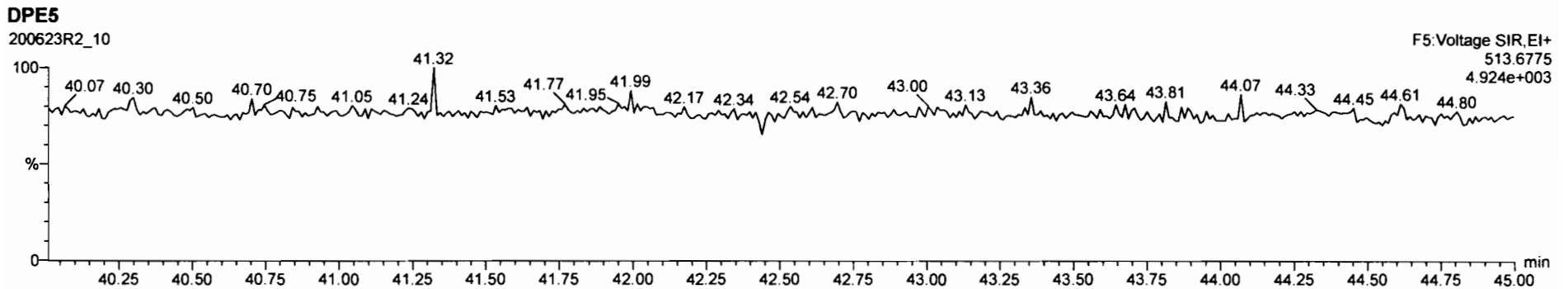
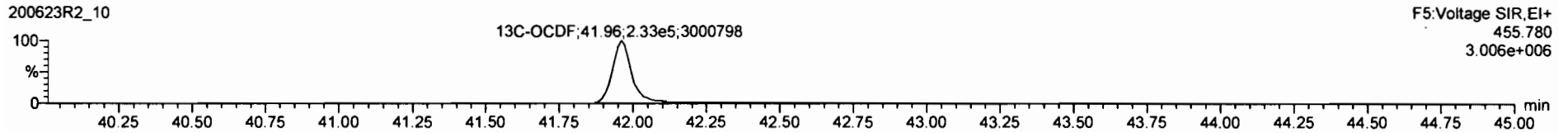
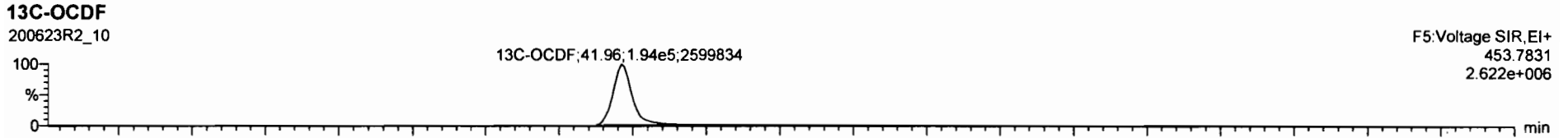
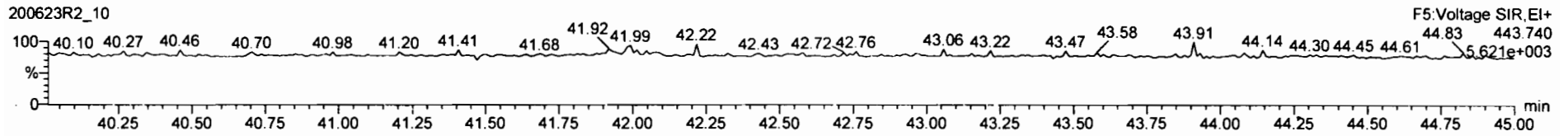
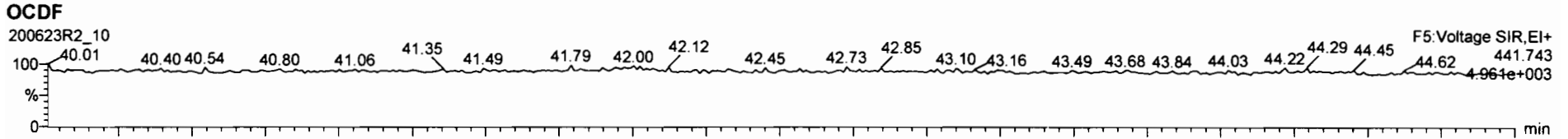


Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

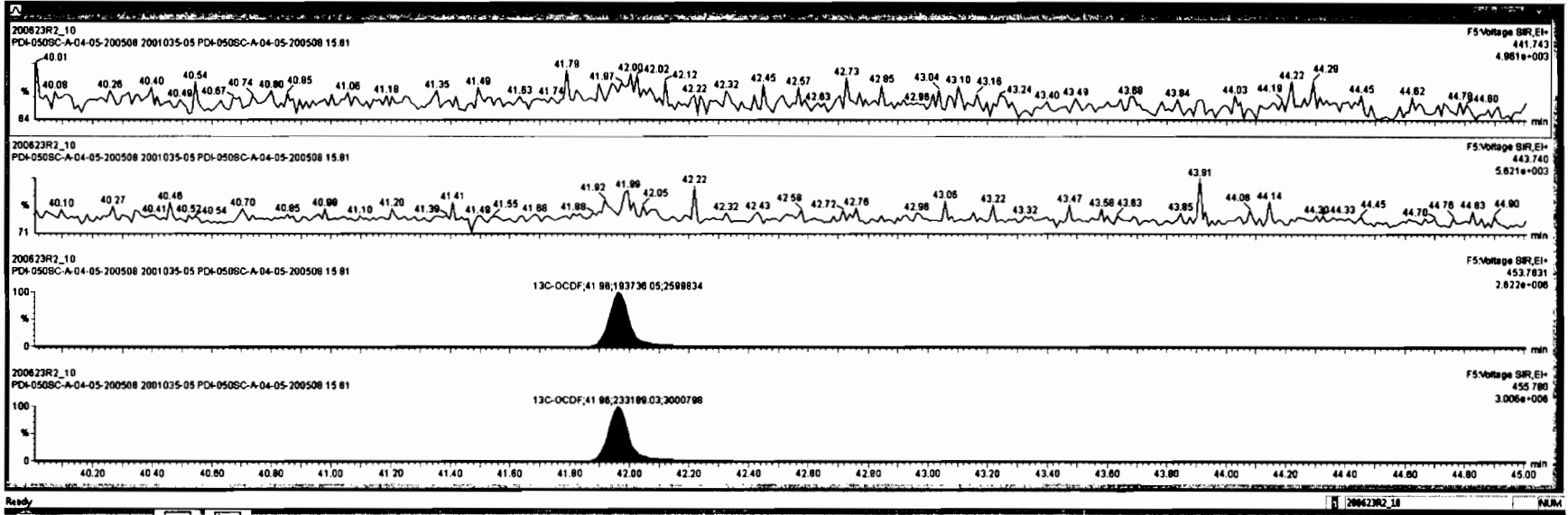
Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508





Peak	Retention	Area	Height	Width	Resolution	Signal	Baseline	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration	Integration		
13C-2,3,7,8-TCDD	6.74e5	0.78	NO	1.15e3	10.102	28.51	28.49	1.025	200	105											0.243	
13C-1,2,3,7,8-PeCDD	9.58e5	0.82	NO	0.84e0	10.102	31.89	31.45	1.218	225	119												0.387
13C-1,2,3,4,7,8-HxCDD	3.28e5	1.28	NO	0.77e0	10.102	34.84	34.84	1.014	168	84.8												0.549
13C-1,2,3,6,7,8-HxCDD	4.41e5	1.27	NO	1.01e7	10.102	34.85	34.84	1.017	168	84.8												0.421
13C-1,2,3,7,8,9-HxCDD	3.09e5	1.17	NO	0.8027	10.102	35.23	35.22	1.025	167	84.2												0.474
13C-1,2,3,4,6,7,8-HpCDD	2.95e5	1.02	NO	0.88e2	10.102	36.75	36.77	1.128	144	72.8												0.424
13C-OCDD	3.72e5	0.80	NO	0.8521	10.102	41.77	41.77	1.218	221	95.8												0.510
13C-2,3,7,8-TCDF	7.78e5	0.77	NO	1.05e0	10.102	25.95	25.98	0.991	178	89.8												0.378
13C-1,2,3,7,8-PeCDF	8.55e5	1.58	NO	0.83e0	10.102	30.08	30.17	1.188	248	125												0.814

Name	RV	int Range	ack Range	QA	July	EMPC	Class

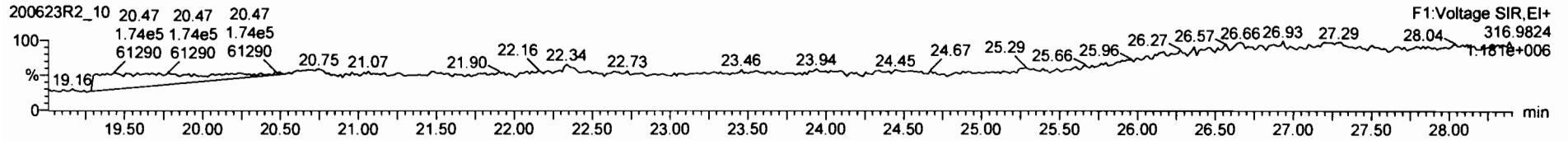


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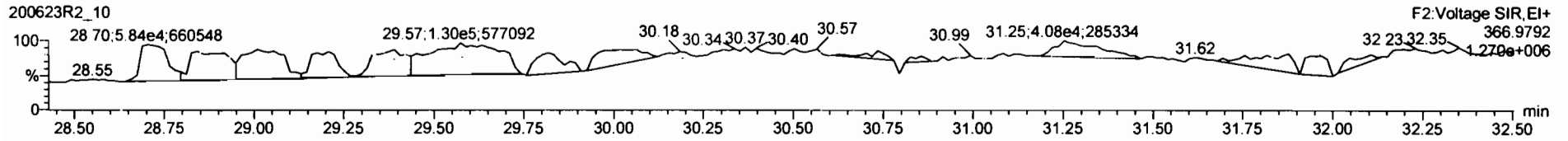
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_10, Date: 23-Jun-2020, Time: 22:01:15, ID: 2001035-05 PDI-050SC-A-04-05-200508 15.81, Description: PDI-050SC-A-04-05-200508

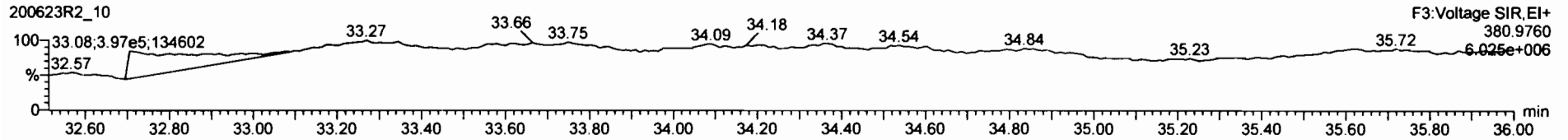
PFK1



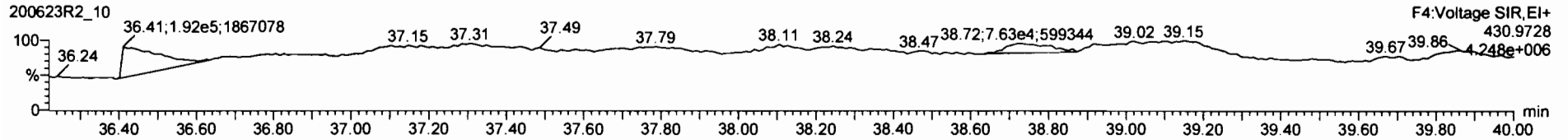
PFK2



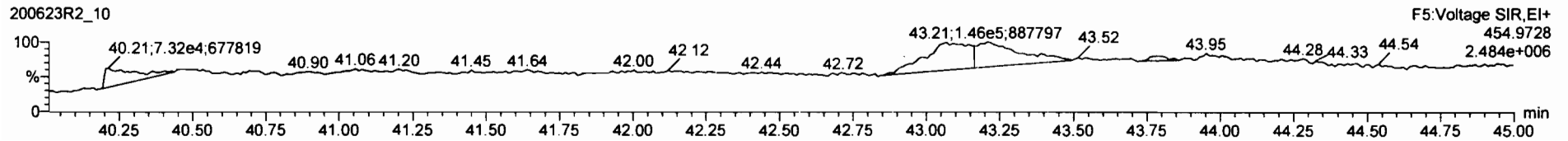
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-11C.qld

Last Altered: Friday, June 26, 2020 11:36:30 AM Pacific Daylight Time
Printed: Friday, June 26, 2020 11:38:13 AM Pacific Daylight Time

HM 06/26/2020

6702/17/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Prod RT	RT	Prod RRT	RRT	Conc	RRR	DL	EMPC
1	2,3,7,8-TCDD			NO	0.888	10.040	26.501		1.001				0.0599	
2	1,2,3,7,8-PeCDD			NO	0.908	10.040	31.473		1.001				0.0851	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.040	34.846		1.000				0.0824	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.040	34.942		1.000				0.0784	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.040	35.230		1.000				0.0983	
6	1,2,3,4,6,7,8-HpCDD	5.94e2	0.97	NO	0.864	10.040	38.789	38.79	1.000	1.000	0.47905		0.141	0.479
7	OCDD	4.05e3	0.88	NO	0.914	10.040	41.780	41.79	1.000	1.000	4.1283		0.258	4.13
8	2,3,7,8-TCDF			NO	0.751	10.040	25.597		1.001				0.0430	
9	1,2,3,7,8-PeCDF			NO	0.893	10.040	30.175		1.001				0.0255	
10	2,3,4,7,8-PeCDF			NO	0.935	10.040	31.176		1.001				0.0244	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.040	33.952		1.000				0.0386	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.040	34.090		1.000				0.0370	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.040	34.700		1.001				0.0386	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.040	35.581		1.000				0.0610	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.040	37.408		1.001				0.0692	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.040	39.320		1.000				0.0912	
17	OCDF			NO	0.806	10.040	41.972		1.000				0.109	
18	13C-2,3,7,8-TCDD	7.60e5	0.81	NO	1.16	10.040	26.491	26.47	1.026	1.026	222.11	111	0.279	
19	13C-1,2,3,7,8-PeCDD	6.26e5	0.63	NO	0.849	10.040	31.674	31.45	1.227	1.219	249.18	125	0.621	
20	13C-1,2,3,4,7,8-HxCDD	3.98e5	1.32	NO	0.779	10.040	34.840	34.84	1.014	1.014	185.61	93.2	0.405	
21	13C-1,2,3,6,7,8-HxCDD	4.98e5	1.19	NO	1.02	10.040	34.954	34.94	1.017	1.017	178.14	89.4	0.311	
22	13C-1,2,3,7,8,9-HxCDD	4.46e5	1.29	NO	0.903	10.040	35.225	35.22	1.025	1.025	179.61	90.2	0.350	
23	13C-1,2,3,4,6,7,8-HpCDD	2.86e5	1.11	NO	0.689	10.040	38.750	38.78	1.128	1.129	150.83	75.7	0.506	
24	13C-OCDD	4.28e5	0.89	NO	0.652	10.040	41.773	41.78	1.216	1.216	238.53	59.9	0.518	
25	13C-2,3,7,8-TCDF	8.98e5	0.78	NO	1.06	10.040	25.534	25.57	0.989	0.991	190.01	95.4	0.350	
26	13C-1,2,3,7,8-PeCDF	9.68e5	1.56	NO	0.838	10.040	30.058	30.15	1.165	1.168	258.75	130	0.787	
27	13C-2,3,4,7,8-PeCDF	9.30e5	1.58	NO	0.817	10.040	31.011	31.15	1.202	1.207	255.04	128	0.808	
28	13C-1,2,3,4,7,8-HxCDF	5.21e5	0.50	NO	1.01	10.040	33.971	33.95	0.989	0.988	188.26	94.5	0.666	
29	13C-1,2,3,6,7,8-HxCDF	5.96e5	0.52	NO	1.17	10.040	34.095	34.08	0.992	0.992	185.83	93.3	0.575	
30	13C-2,3,4,6,7,8-HxCDF	5.28e5	0.53	NO	1.02	10.040	34.669	34.67	1.009	1.009	188.05	94.4	0.656	
31	13C-1,2,3,7,8,9-HxCDF	4.20e5	0.51	NO	0.860	10.040	35.569	35.58	1.035	1.036	177.65	89.2	0.780	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-11C.qld

Last Altered: Friday, June 26, 2020 11:36:30 AM Pacific Daylight Time

Printed: Friday, June 26, 2020 11:38:13 AM Pacific Daylight Time

Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRR	Conc	SA	SL	Imp	
32	13C-1,2,3,4,6,7,8-HpCDF	3.57e5	0.45	NO	0.774	10.040	37.317	37.37	1.086	1.088	167.80	84.2		0.513	
33	13C-1,2,3,4,7,8,9-HpCDF	2.01e5	0.41	NO	0.521	10.040	39.348	39.32	1.145	1.144	140.38	70.5		0.762	
34	13C-OCDF	4.87e5	0.88	NO	0.746	10.040	41.945	41.97	1.221	1.222	237.64	59.6		0.331	
35	37Cl-2,3,7,8-TCDD	2.96e5			1.04	10.040	26.522	26.48	1.028	1.026	96.587	121		0.0763	
36	13C-1,2,3,4-TCDD	5.89e5	0.79	NO	1.00	10.040	25.890	25.81	1.000	1.000	199.20	100		0.323	
37	13C-1,2,3,4-TCDF	8.89e5	0.79	NO	1.00	10.040	24.360	24.12	1.000	1.000	199.20	100		0.370	
38	13C-1,2,3,4,6,9-HxCDF	5.48e5	0.51	NO	1.00	10.040	34.420	34.36	1.000	1.000	199.20	100		0.671	
39	Total Tetra-Dioxins				0.888	10.040	24.620		0.000		0.00000			0.0369	0.0946
40	Total Penta-Dioxins				0.908	10.040	29.960		0.000		0.00000			0.0474	0.0195
41	Total Hexa-Dioxins				0.892	10.040	33.635		0.000		0.40438			0.0898	0.404
42	Total Hepta-Dioxins				0.864	10.040	37.640		0.000		0.47905			0.141	1.13
43	Total Tetra-Furans				0.751	10.040	23.610		0.000		0.089398			0.0225	0.0894
44	1st Func. Penta-Furans				0.893	10.040	27.580		0.000					0.00886	
45	Total Penta-Furans				0.893	10.040	29.275		0.000					0.0128	
46	Total Hexa-Furans				0.934	10.040	33.555		0.000					0.0198	
47	Total Hepta-Furans				0.873	10.040	37.835		0.000					0.0432	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-11C.qld

Last Altered: Friday, June 26, 2020 11:36:30 AM Pacific Daylight Time

Printed: Friday, June 26, 2020 11:38:13 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DE
Total Tetra-Dioxins	24.28	1.840e3	3.176e3	1.317e2	1.887e2	0.70	NO	0.000e0	0.00000	0.094571	0.0369

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DE
Total Penta-Dioxins	31.85	9.540e2	2.875e3	2.145e1	5.480e1	0.39	YES	0.000e0	0.00000	0.019454	0.0474

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DE
Total Hexa-Dioxins	33.33	1.001e4	6.548e3	4.720e2	3.378e2	1.40	NO	8.098e2	0.40438	0.40438	0.0898

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DE
Total Hepta-Dioxins	37.78	5.675e3	8.913e3	4.116e2	5.126e2	0.80	YES	0.000e0	0.00000	0.65136	0.141
1,2,3,4,6,7,8-HpCDD	38.79	5.583e3	5.019e3	2.927e2	3.011e2	0.97	NO	5.938e2	0.47905	0.47905	0.141

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DE
Total Tetra-Furans	21.50	1.629e3	3.165e3	1.266e2	1.762e2	0.72	NO	3.028e2	0.089398	0.089398	0.0225

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DE
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Dataset: U:\VG12.PRO\Results\200623R2\200623R2-11C.qld

Last Altered: Friday, June 26, 2020 11:36:30 AM Pacific Daylight Time

Printed: Friday, June 26, 2020 11:38:13 AM Pacific Daylight Time

Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
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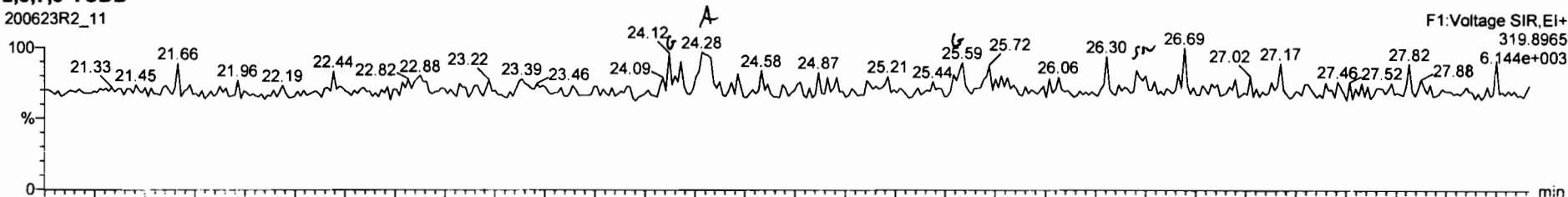
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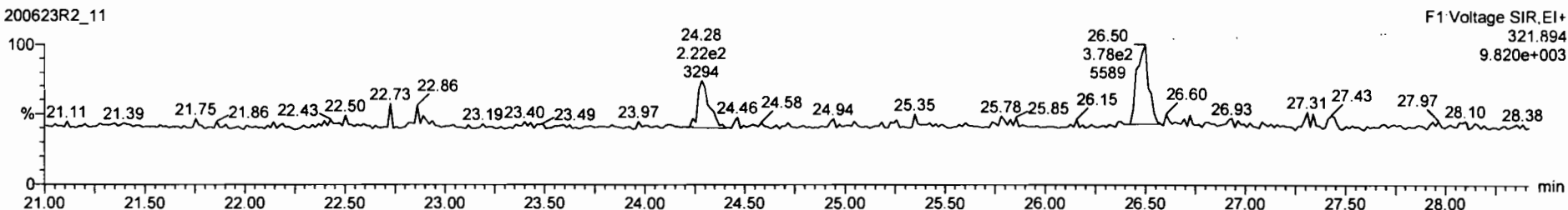
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2,3,7,8-TCDD

200623R2_11

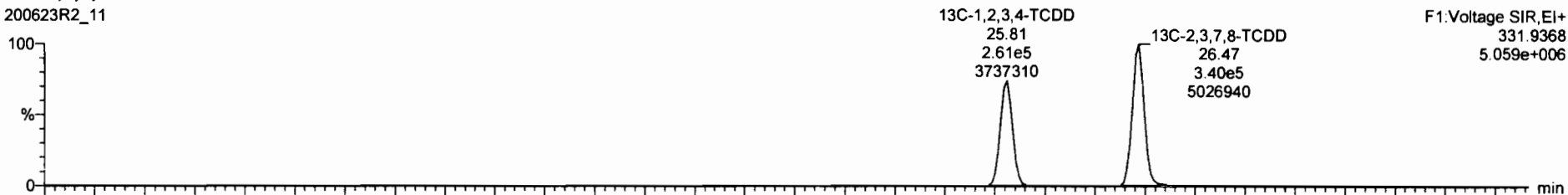


200623R2_11

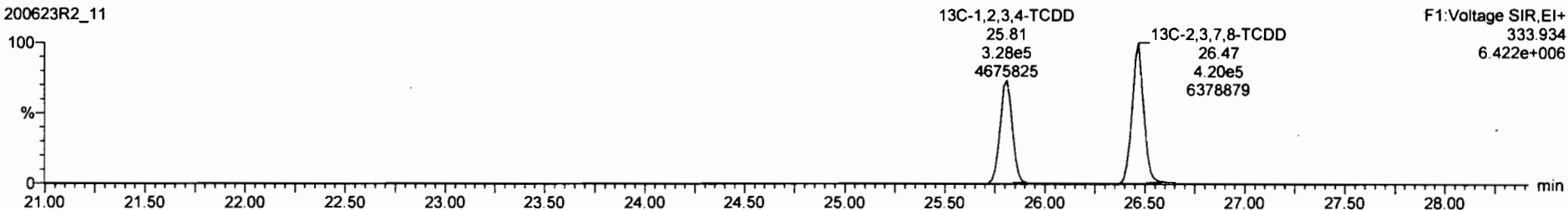


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200623R2_11



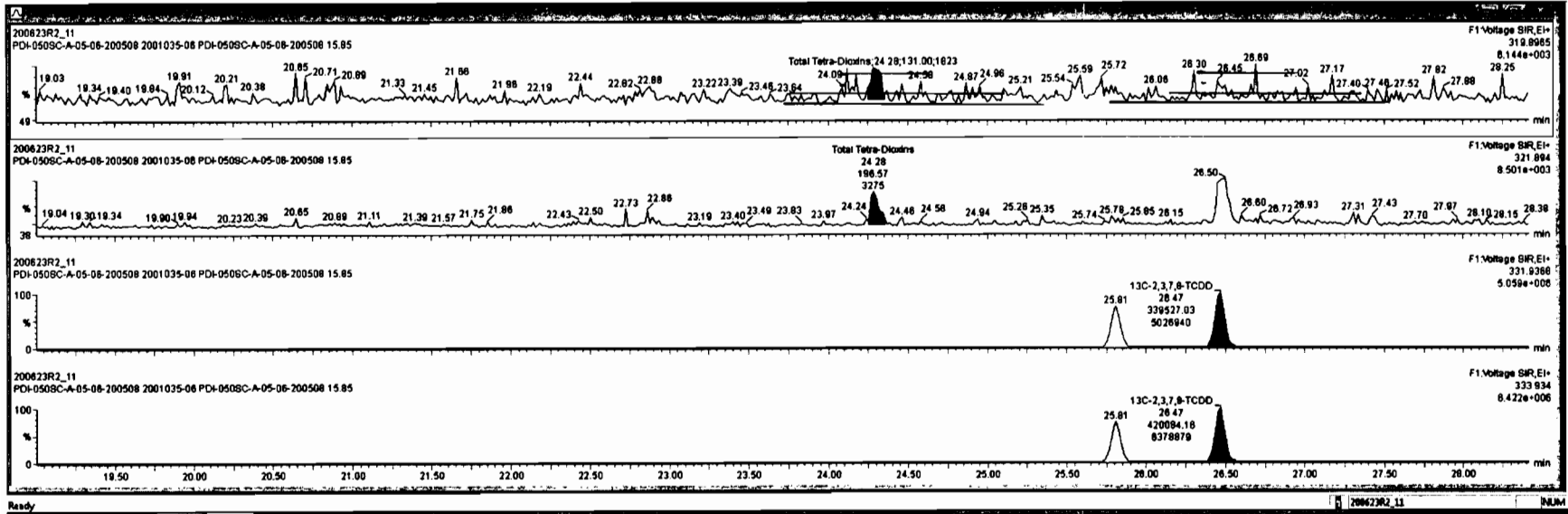
200623R2_11





NO	NAME	CONC	UNIT	REMARKS
40	Total Penta-Dioxine	0.8081	10.040	29.98
41	Total Hexa-Dioxine	0.8823	10.040	33.83
42	Total Hepta-Dioxine	0.8630	10.040	37.84
43	Total Tetra-Furane	0.7510	10.040	23.81
44	Total Penta-Furane	0.8825	10.040	27.58
45	Total Hexa-Furane	0.8241	10.040	33.58
46	Total Hepta-Furane	0.8734	10.040	37.83
47	PFK1			

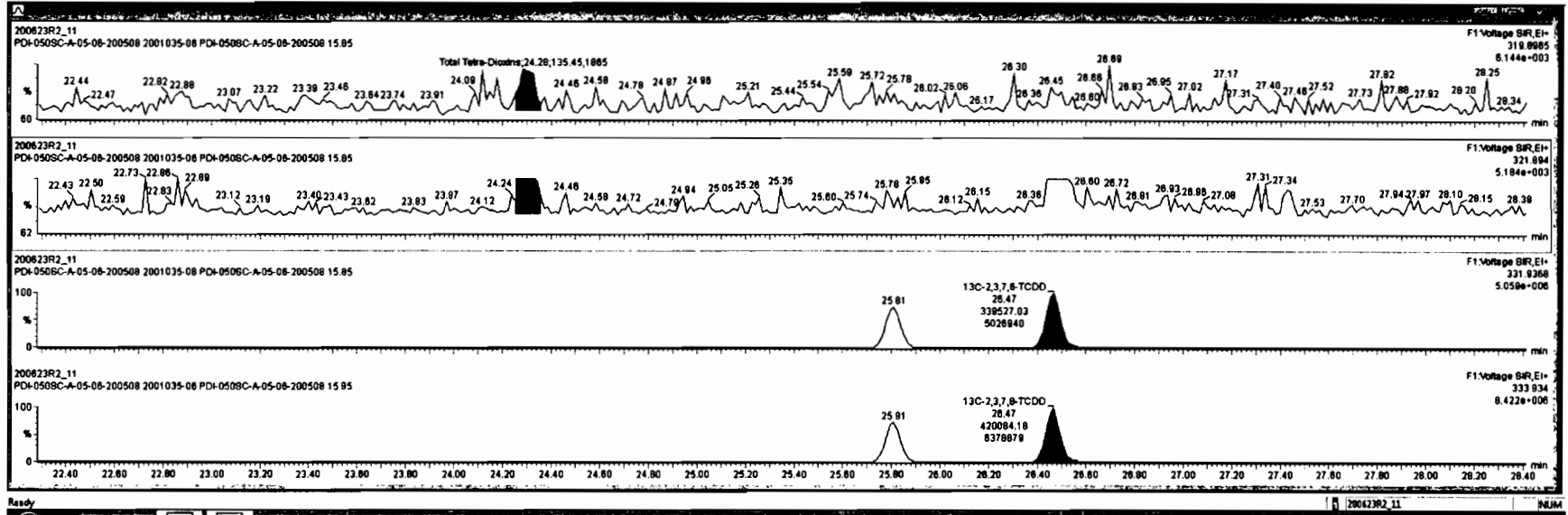
NO	NAME	CONC	UNIT	REMARKS
47	Total Tetra-Dioxine	24.28	1.310e2	1.988e2





Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
40	24.26	135451865	29.98	0.9081	10.040	0.0474							
41	24.45	33.63	0.2623	10.040	0.2623	0.0098	0.363						
42	24.78	37.64	0.2638	10.040	0.2638	0.141	0.636						
43	23.81	23.81	0.7510	10.040	0.7510	0.2225							
44	27.58	27.58	0.8825	10.040	0.8825	0.0098							
45	26.27	26.27	0.8825	10.040	0.8825	0.0126							
46	33.58	33.58	0.9341	10.040	0.9341	0.0198							
47	37.83	37.83	0.8734	10.040	0.8734	0.0432							

Name	RT	Int Resp	Int Resp	Area	Height	Area	Height	Area	Height
Total Tetra-Chloro	24.26	1.354e2	1.802e2	0.85	NO	0.087288	0.00000		



Dataset: Untitled

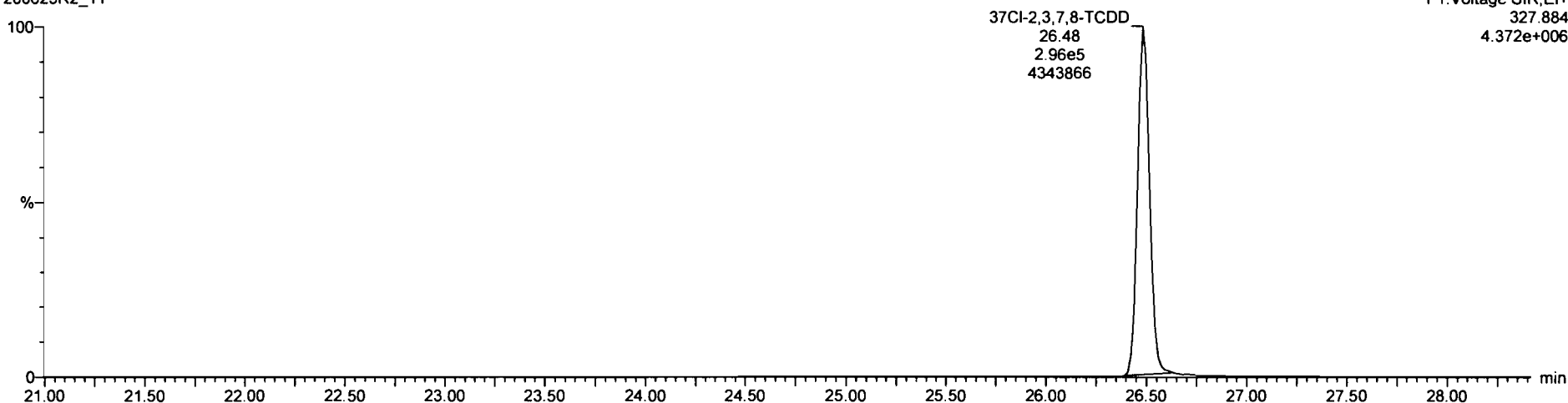
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Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

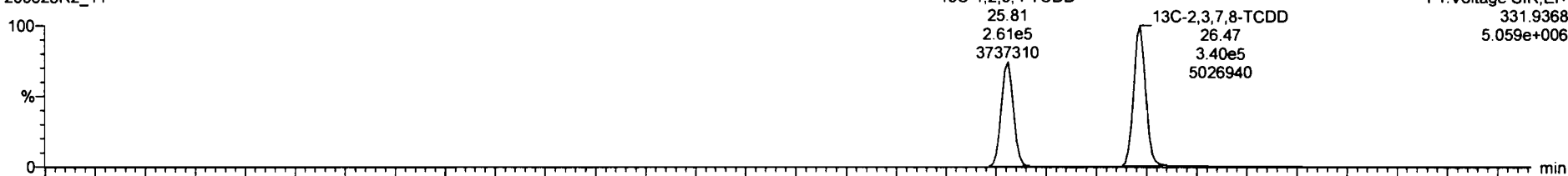
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200623R2_11

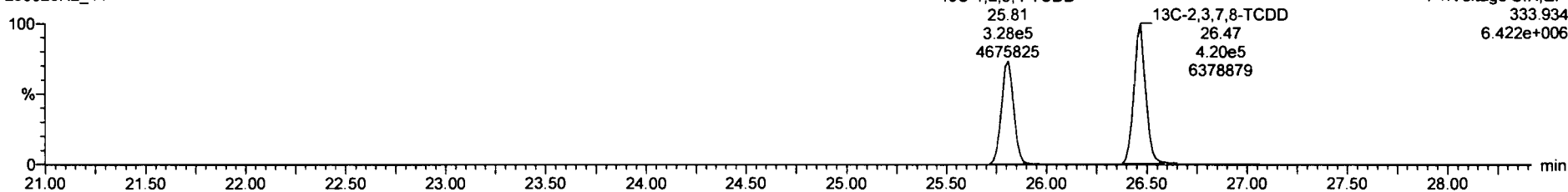


13C-1,2,3,4-TCDD

200623R2_11



200623R2_11



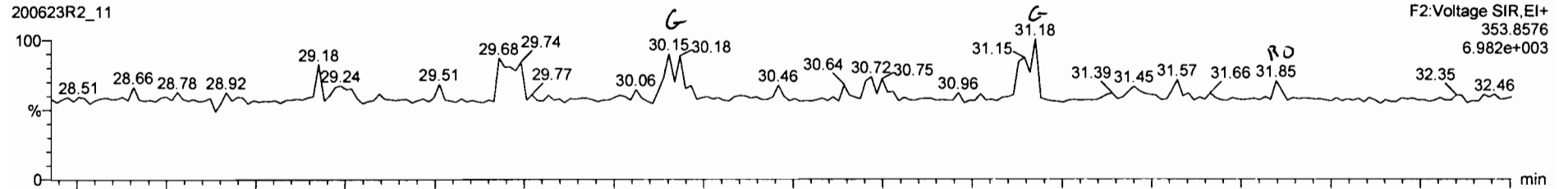
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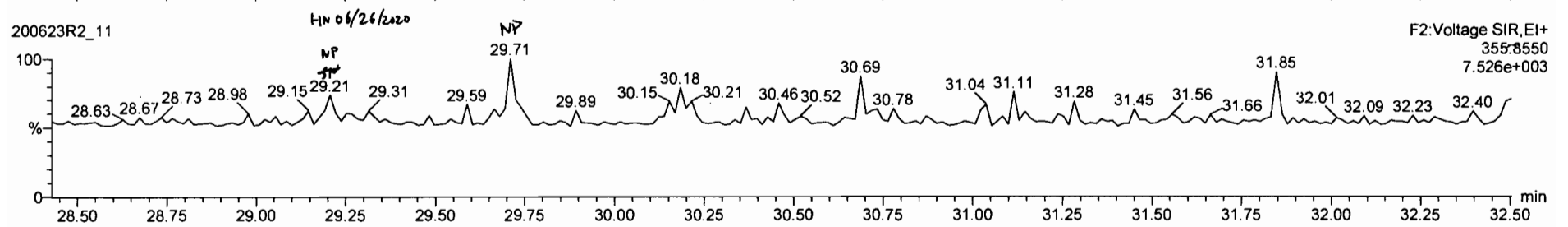
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1,2,3,7,8-PeCDD

200623R2_11

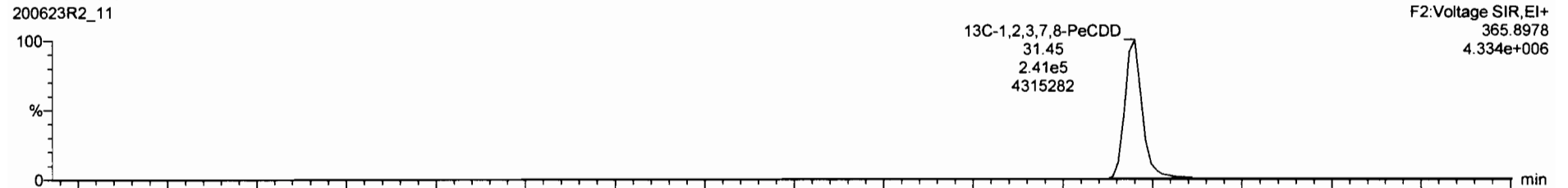


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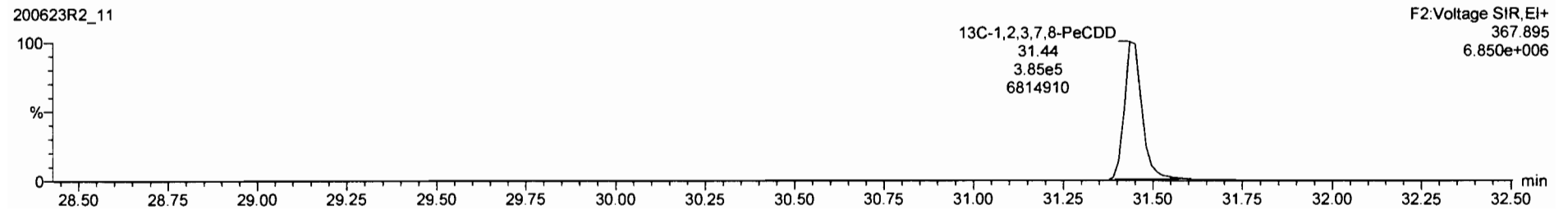


13C-1,2,3,7,8-PeCDD

200623R2_11

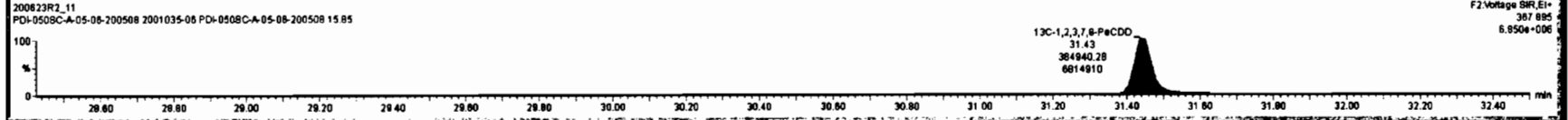
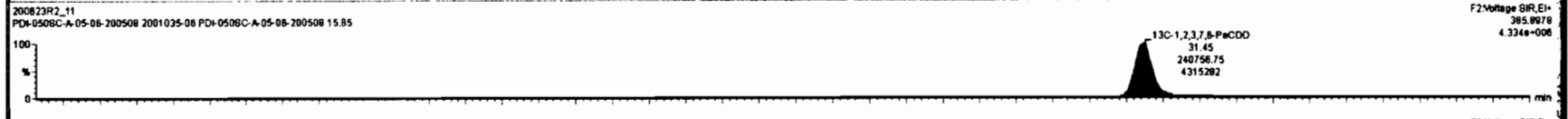
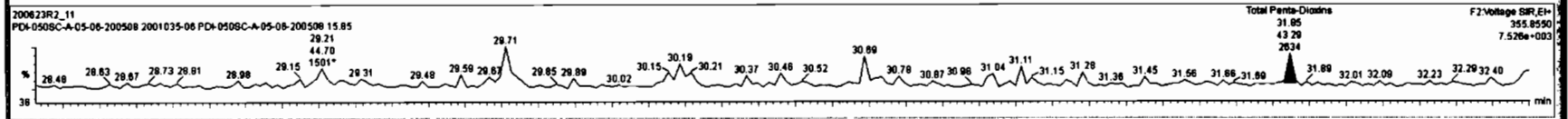
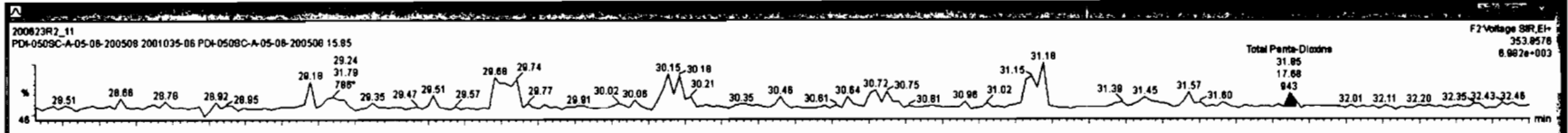


200623R2_11



RT	Temp	RA	Adj	Area	Height	Width	Area%	Height%	Width%
30				0.8993	10.040	24.62	0.000	0.0369	0.100
40				0.8923	10.040	33.83	0.363	0.0909	0.363
42				0.8636	10.040	37.84	0.636	0.141	0.636
43				0.7510	10.040	23.81		0.0226	
44				0.8825	10.040	27.59		0.00898	
45				0.8825	10.040	28.27		0.0128	
46				0.9341	10.040	33.96		0.0198	
47				0.8734	10.040	37.83		0.0432	

Name	RT	Int Temp	Int Range	RA	Adj	SMPC	Comp
Total Penta-Dioxine	31.85	1.788e1	4.329e1	0.41	YES	0.018040	0.00000



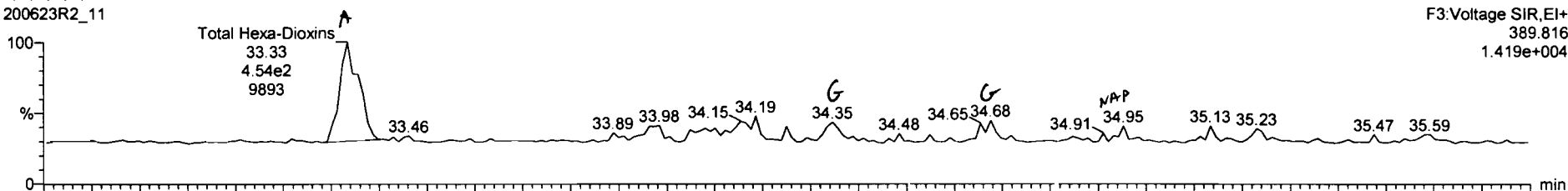
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

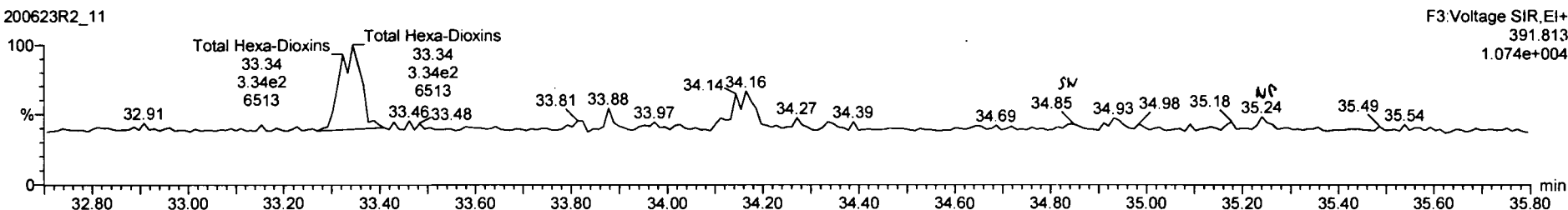
Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

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

200623R2_11



200623R2_11

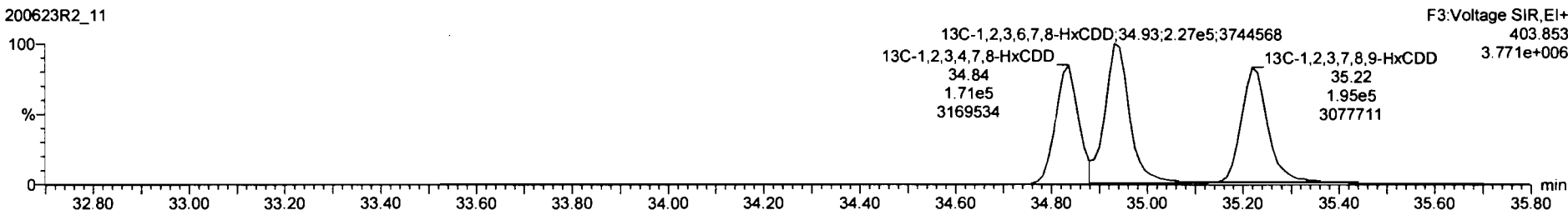


13C-1,2,3,4,7,8-HxCDD

200623R2_11

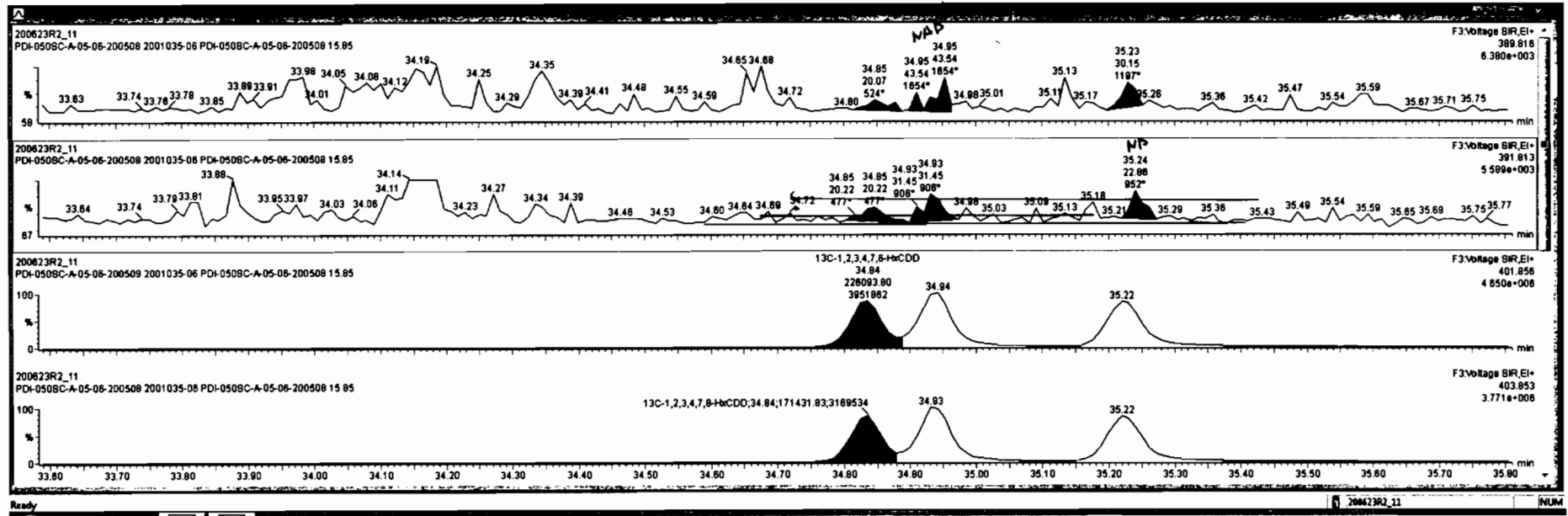


200623R2_11



Sample	WT /	Vol. Sample	Sample Temp.	Flow	Flow Rate	Flow Rate	Flow Rate	Flow Rate	Flow Rate	Flow Rate
48	Total Tetra-Dioxins	0.8883	10.040	24.82		0.000	0.0389	0.100		
49	Total Penta-Dioxins	0.9081	10.040	29.96		0.000	0.0474	0.0180		
45	Total Hepta-Dioxins	0.8638	10.040	37.84		0.838	0.141	0.838		
46	Total Tetra-Furans	0.7510	10.040	23.81			0.0225			
47	1st Func. Penta-Furans	0.8625	10.040	27.58			0.00886			
48	Total Penta-Furans	0.8625	10.040	29.27			0.0128			
49	Total Hexa-Furans	0.8341	10.040	33.58			0.0198			
47	Total Hepta-Furans	0.8734	10.040	37.83			0.0432			
48	PFK1									

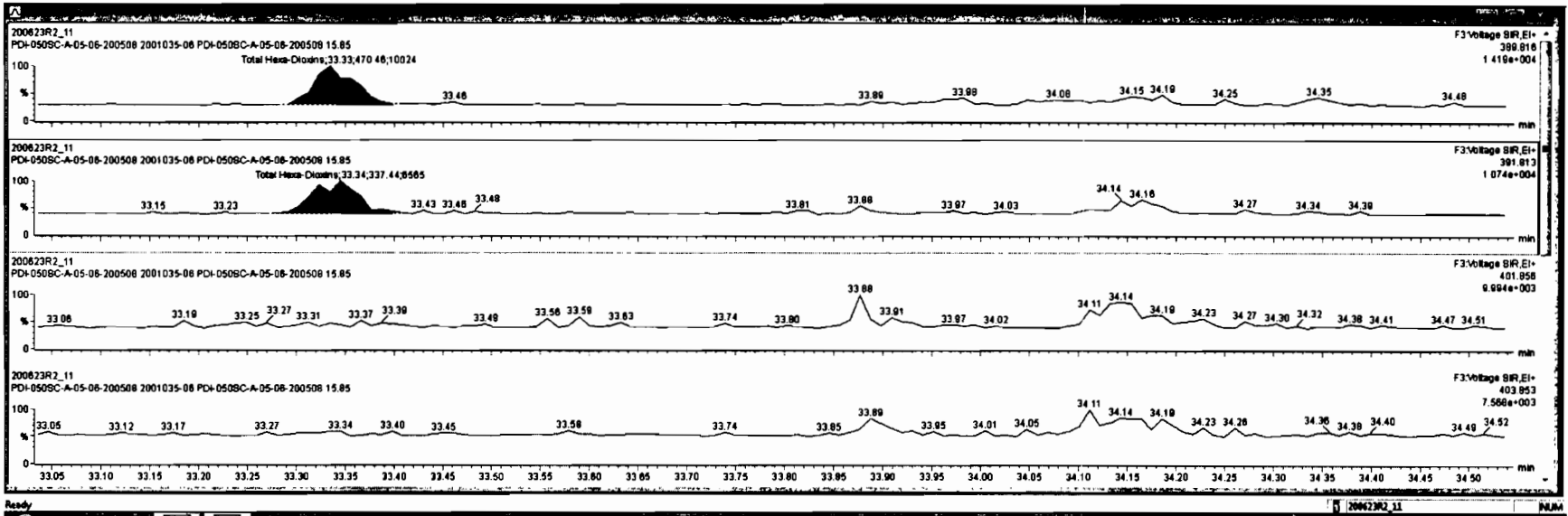
Sample	WT /	Vol. Sample	Sample Temp.	Flow	Flow Rate	Flow Rate	Flow Rate	Flow Rate
1%	Total Hexa-Dioxins	33.33	4.70542	3.37442	1.38	NO	0.40342	0.40342





Sample	Comp	Area	Height	Area%	Height%	Area	Height	Area%	Height%
39	Total Tetra-Dioxins	0.8883	10.040	24.82				0.0388	
40	Total Penta-Dioxins	0.8081	10.040	28.88				0.0474	0.0180
41	Total Hexa-Dioxins	0.8838	10.040	37.84				0.638	0.141
42	Total Hepta-Dioxins	0.7510	10.040	23.81				0.0225	
43	Total Furans	0.8825	10.040	27.58				0.0088	
44	Total Penta-Furans	0.8825	10.040	28.27				0.0138	
45	Total Hexa-Furans	0.8341	10.040	33.58				0.0188	
46	Total Hepta-Furans	0.8734	10.040	37.83				0.0432	

Name	Ref	Int Resp	Ext Resp	SA	HF	SPC	Chgs
Total Hexa-Dioxins	33.33	4.705e2	3.374e2	1.38	NO	0.40342	0.40342



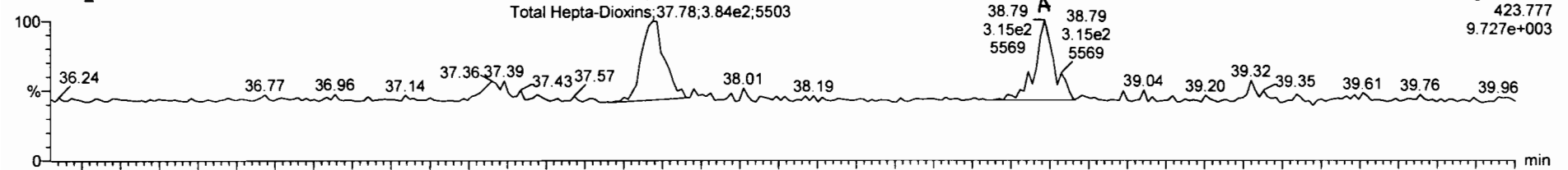
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

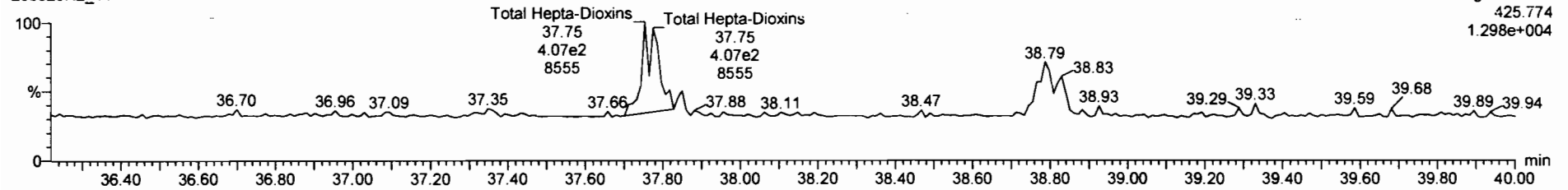
Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

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

200623R2_11

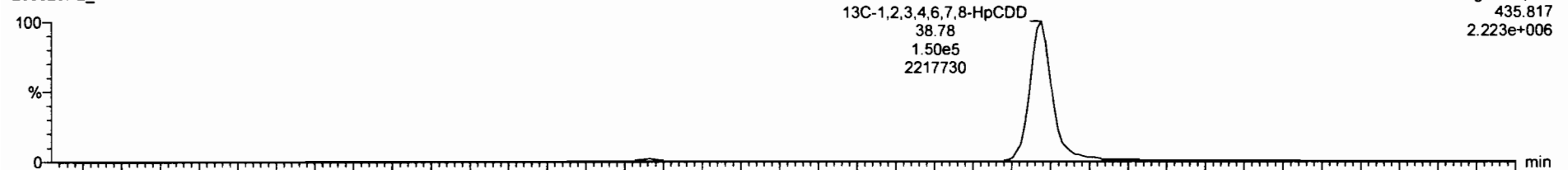


200623R2_11

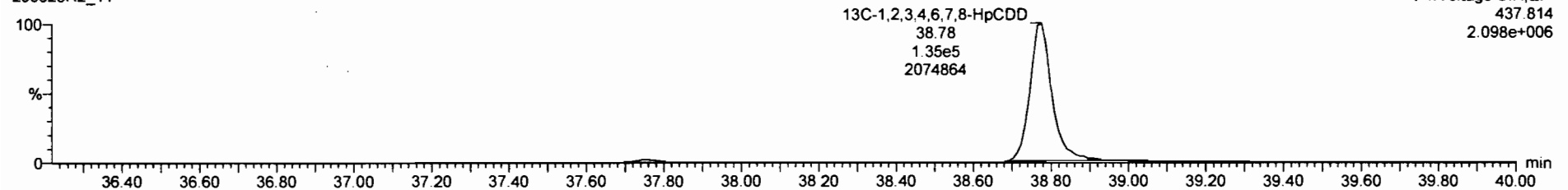


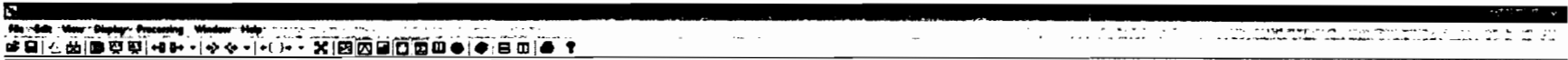
13C-1,2,3,4,6,7,8-HpCDD

200623R2_11



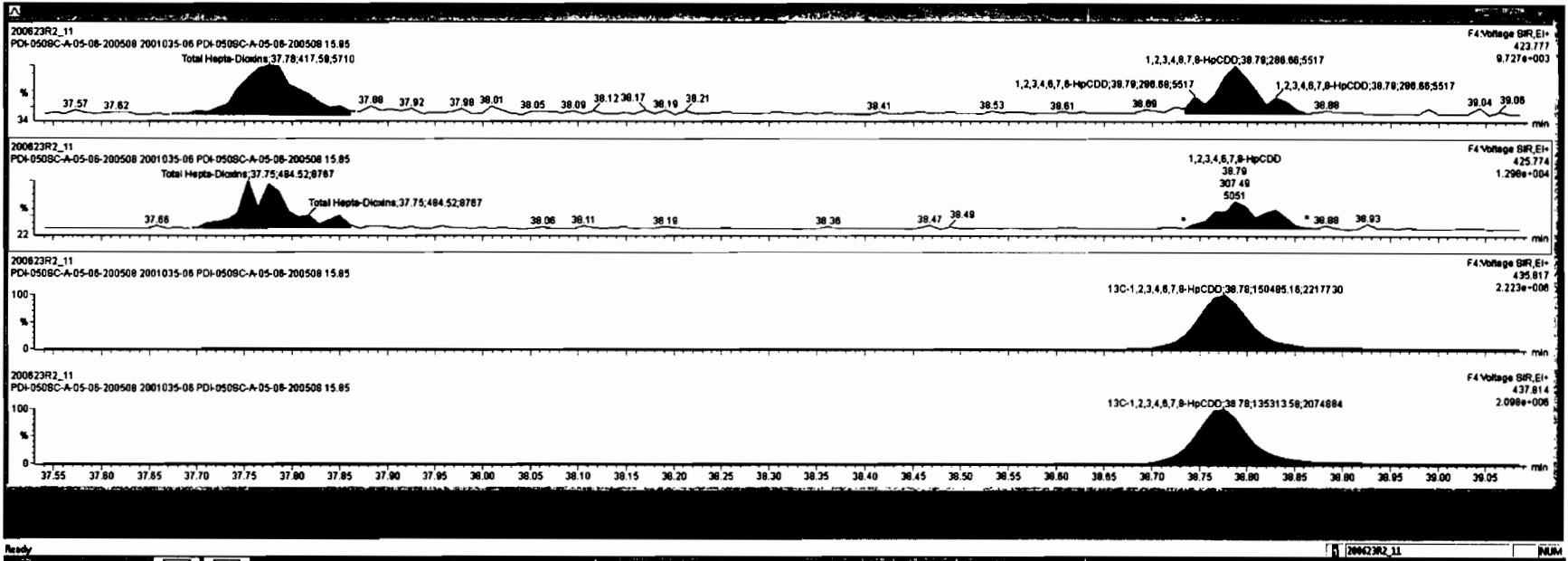
200623R2_11





Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
13C-1,2,3,7,8-PeCDF	8.89e5	1.58	NO	0.8290	10.040	30.00	30.15	1.166	259	130	0.787						
13C-2,3,4,7,8-PeCDF	9.30e5	1.58	NO	0.8186	10.040	31.01	31.15	1.207	255	128	0.698						
13C-1,2,3,4,7,8-HxCDF	5.21e5	0.80	NO	1.0275	10.040	33.87	33.95	0.989	189	94.5	0.688						
13C-1,2,3,6,7,8-HxCDF	5.98e5	0.52	NO	1.1670	10.040	34.06	34.08	0.982	186	93.3	0.575						
13C-2,3,4,6,7,8-HxCDF	5.29e5	0.53	NO	1.0219	10.040	34.87	34.87	1.009	189	94.4	0.858						
13C-1,2,3,7,8,9-HxCDF	4.20e5	0.51	NO	0.8586	10.040	35.57	35.56	1.039	178	86.2	0.780						
13C-1,2,3,4,6,7,8-HpCDF	3.57e5	0.45	NO	0.7745	10.040	37.32	37.37	1.089	166	84.2	0.513						

Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
Total Hepta-Chlorine	37.78	4.178e2	4.845e2	0.86	YES	0.88098	0.00000						
1,2,3,4,6,7,8-HpCDD	38.79	2.867e2	3.075e2	0.83	NO	0.47836	0.47835						

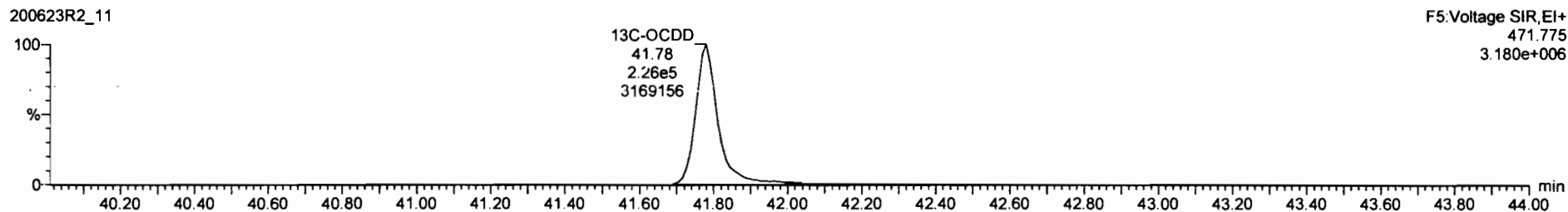
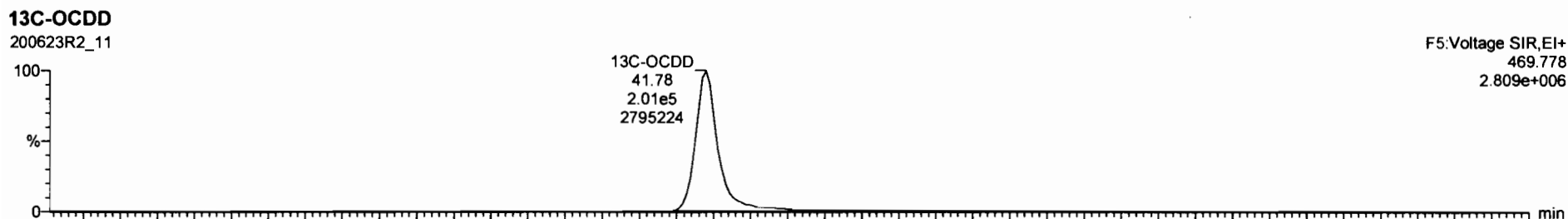
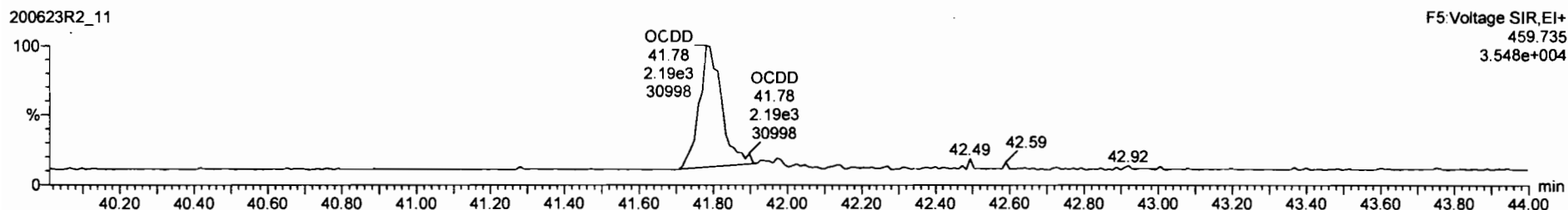
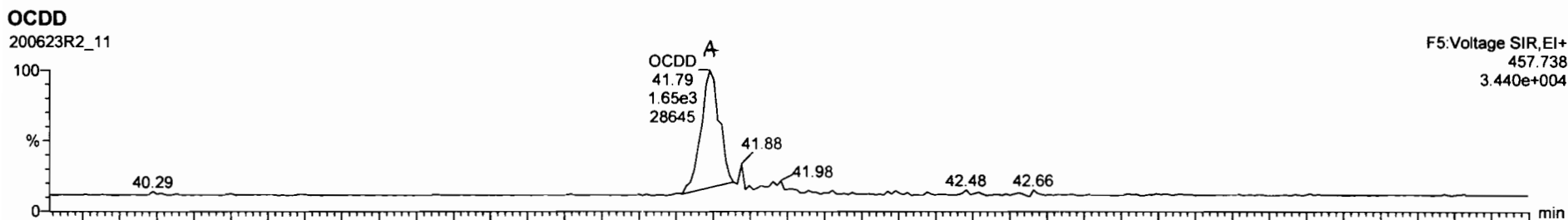


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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

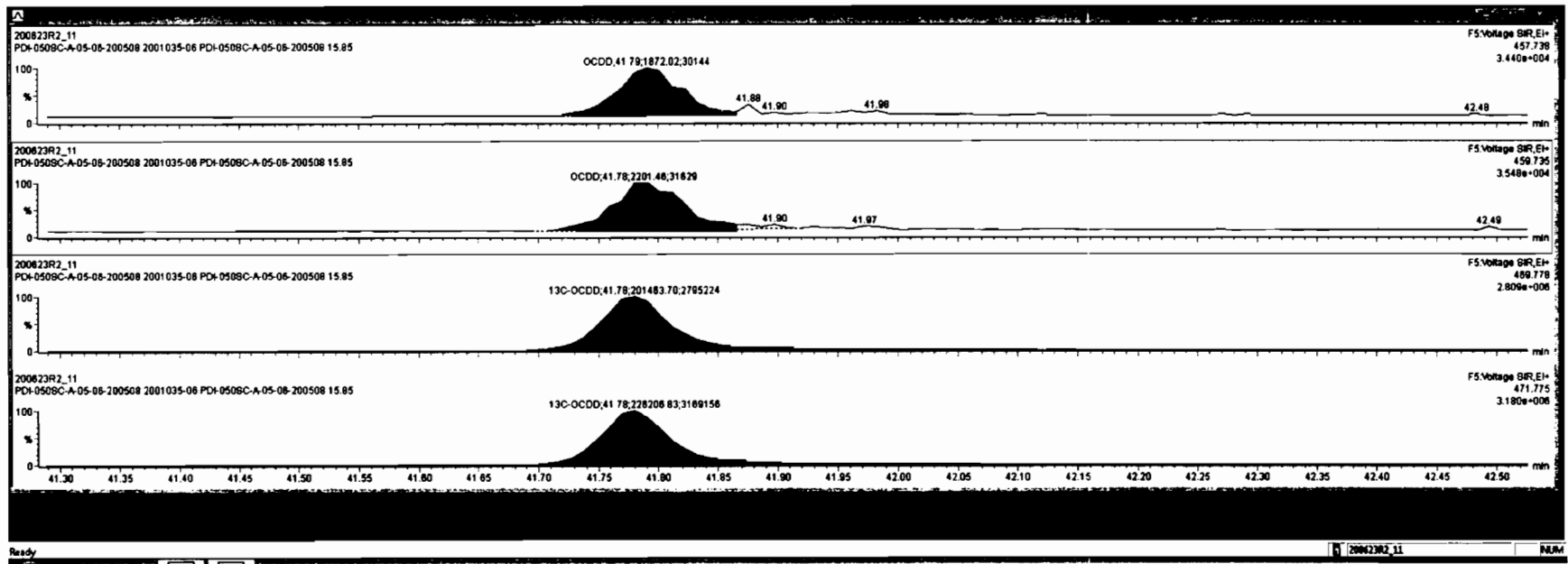
Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508





Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
1	23.78	NO	0.7510	10.040	25.80				0.0430
2	23.78	NO	0.8825	10.040	30.18				0.0295
3	23.67	NO	0.8348	10.040	31.18				0.0244
4	23.67	NO	0.8845	10.040	33.95				0.0306
5	23.67	NO	0.8882	10.040	34.09				0.0370
6	23.67	NO	0.8341	10.040	34.70				0.0306

Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
1	41.88								
2	41.90								
3	41.98								
4	42.48								



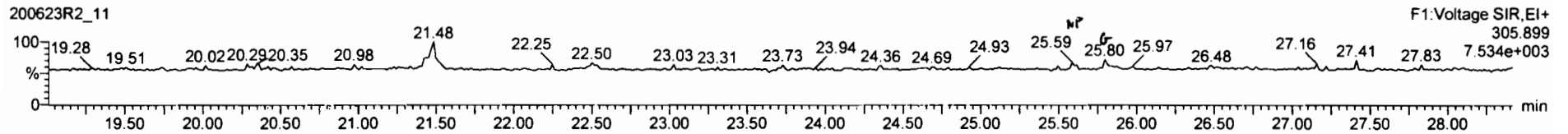
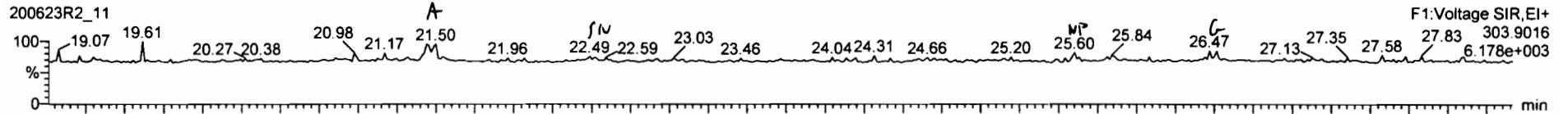
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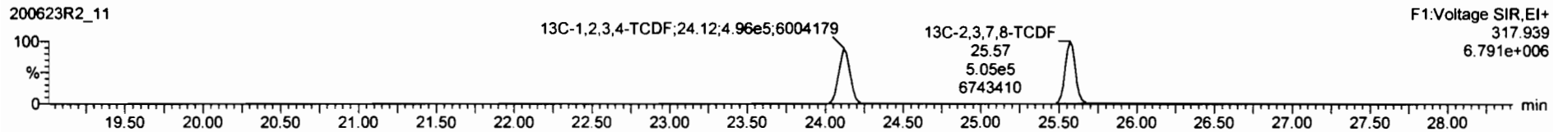
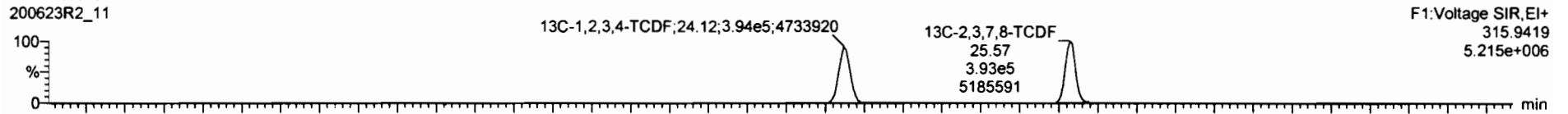
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

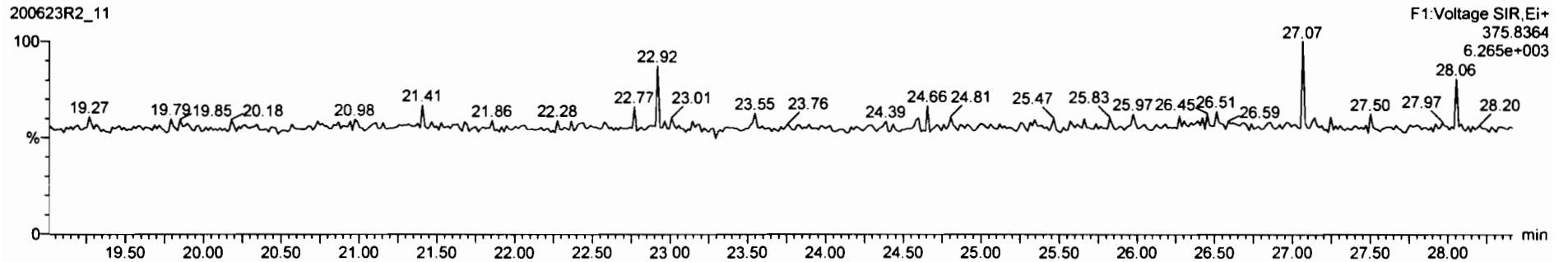
2,3,7,8-TCDF



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

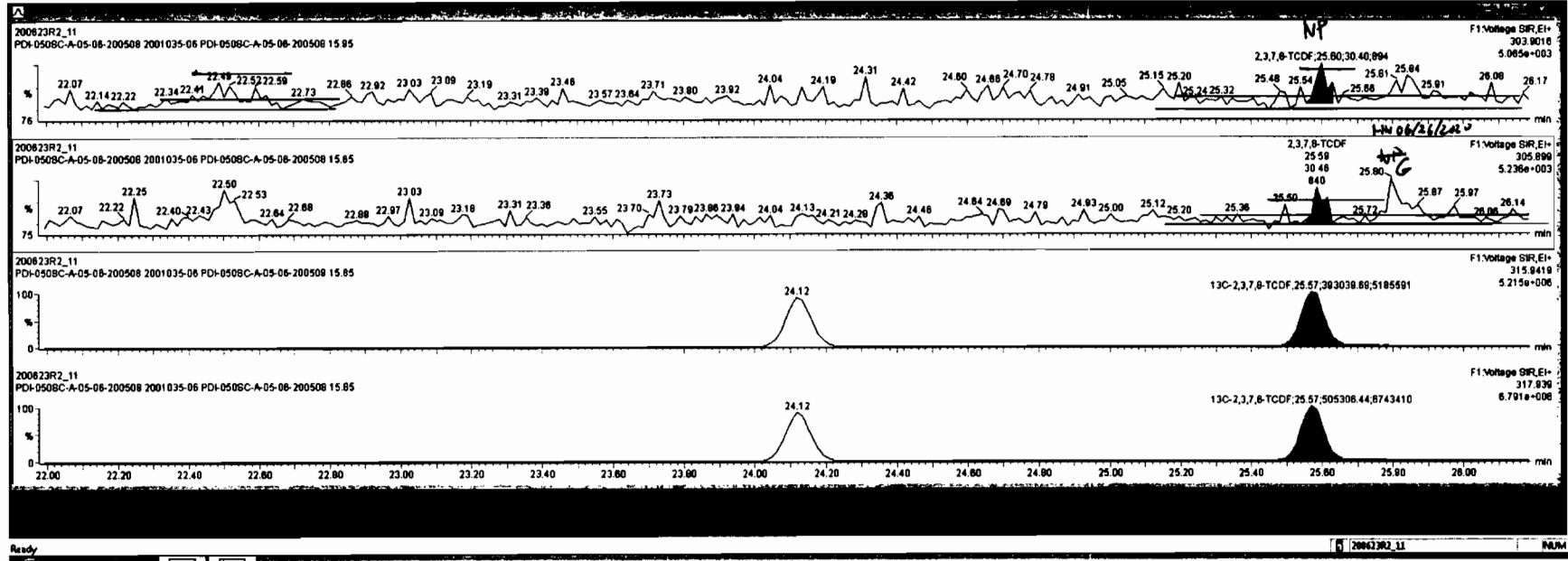


DPE1



RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
24.12	10.040	27.98	0.0025	0.0000					
25.57	10.040	29.27	0.0025	0.0000					
23.57	10.040	33.58	0.0341	0.0198					
23.83	10.040	37.83	0.0734	0.0432					

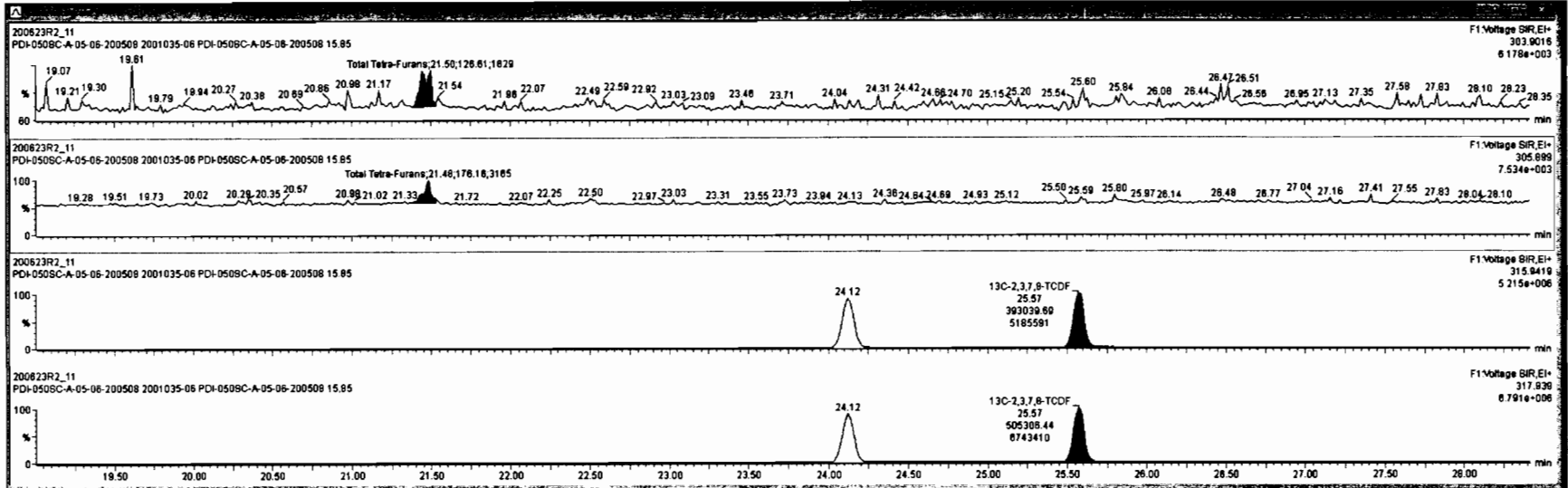
RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
21.50	1.250e2	1.643e2	0.78	NO	0.085418	0.085418			
25.80	3.040e1	3.040e1	1.00	YES	0.019832	0.000000			





Item	Name	Flow	Unit	Value	Unit	Value	Unit	Value	Unit	Value	Unit	Value	Unit	Value	Unit
26	Total Hexa-Chlorine			0.8923	10.040	33.83		0.404		0.0590	0.404				
42	Total Hepta-Chlorine			0.8638	10.040	37.84		0.479		0.141	1.13				
43	Total Octa-Chlorine														
54	Total Penta-Furane			0.8925	10.040	27.58				0.0086					
68	Total Tetra-Furane			0.8625	10.040	28.27				0.0128					
89	Total Chlorine Emission			0.7944	4.00000	99.89									

Item	Name	RT	Int Ramp	Int Ramp	RA	Int	Unit	Value	Unit	Value	Unit
1	Total Tetra-Furane	21.50	1.28642	1.78282	0.72	NO	0.089388	0.089388			



Dataset: Untitled

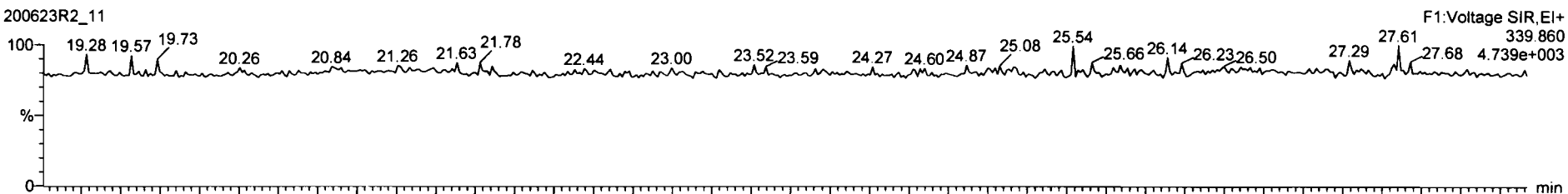
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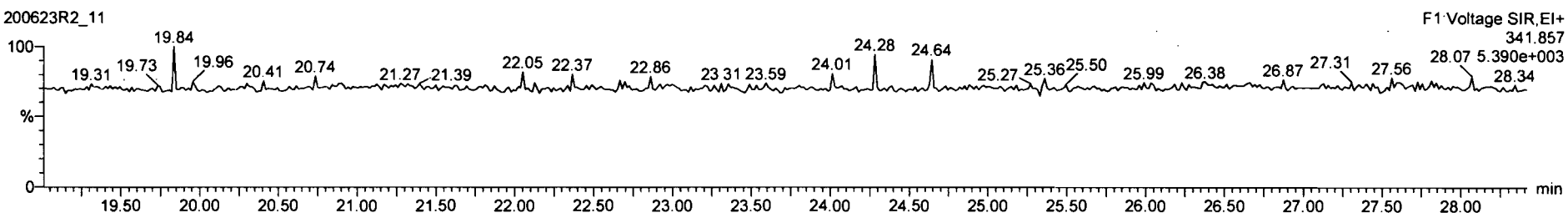
Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

1st Func. Penta-Furans

200623R2_11

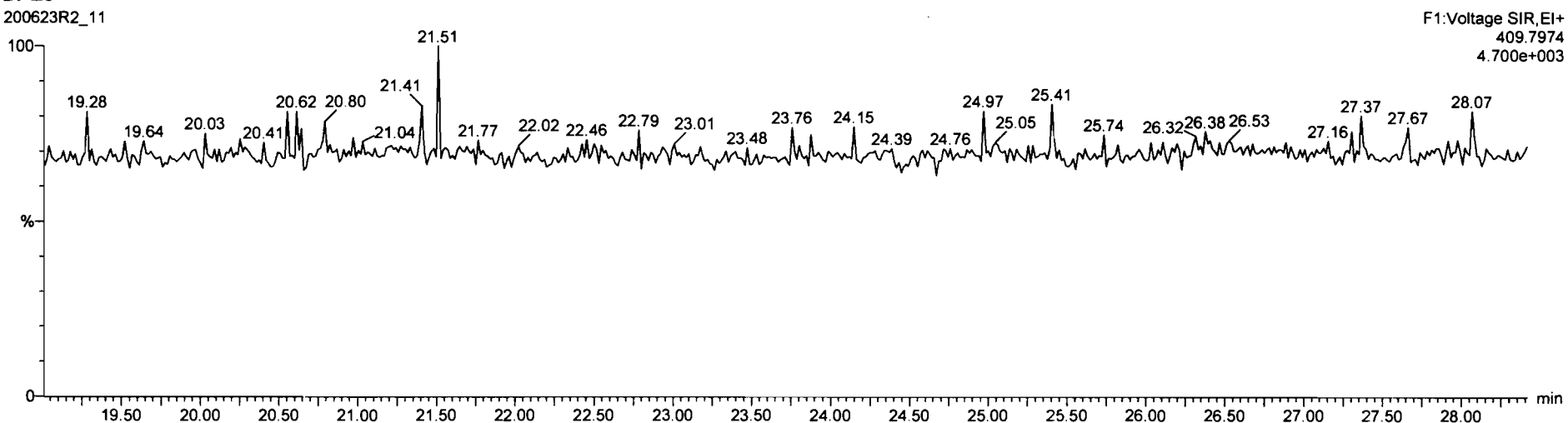


200623R2_11



DPE6

200623R2_11

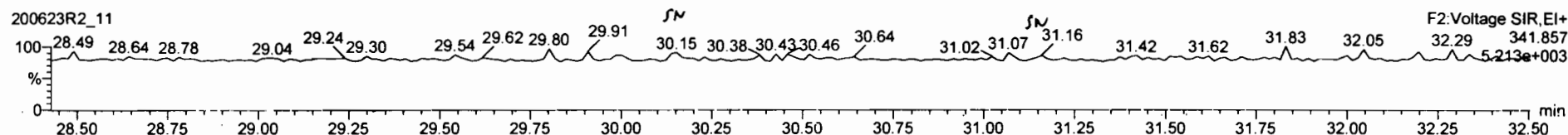
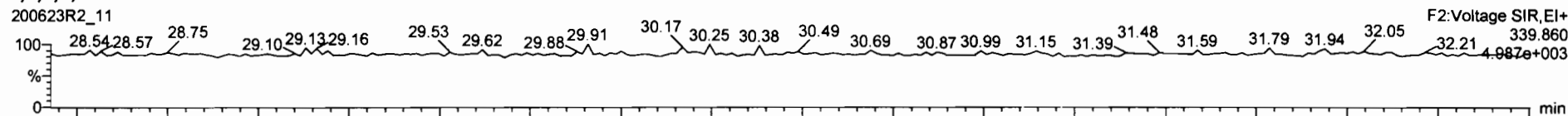


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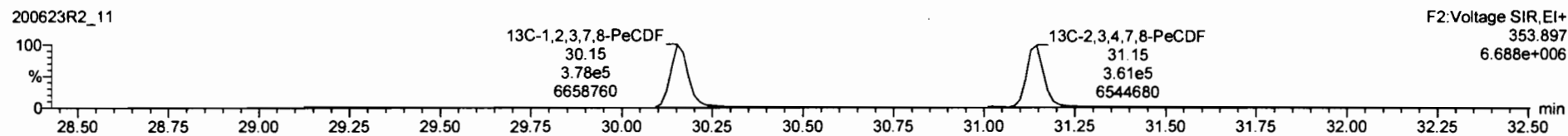
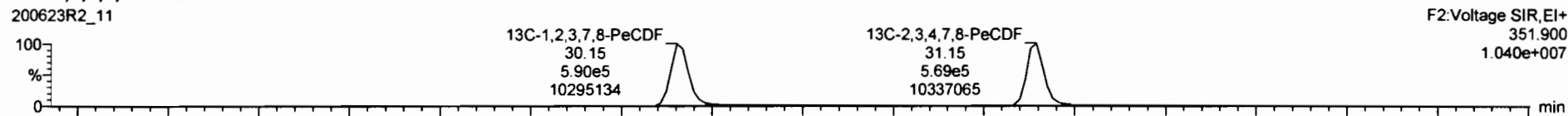
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

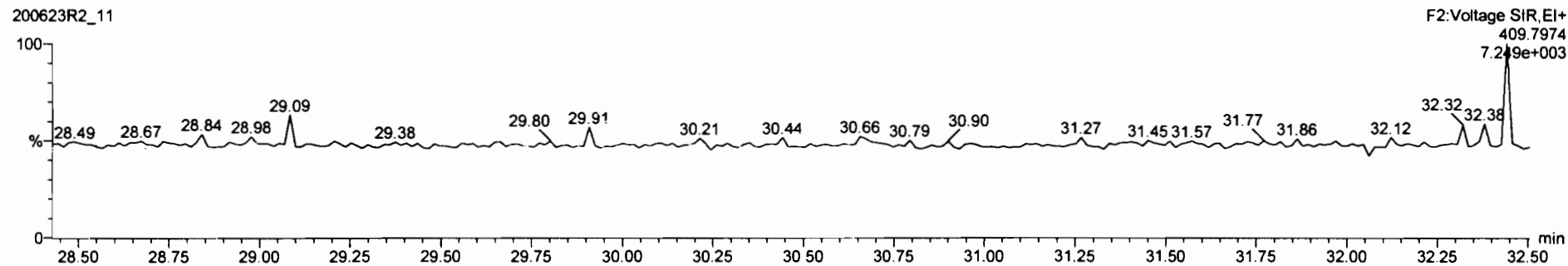
1,2,3,7,8-PeCDF



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

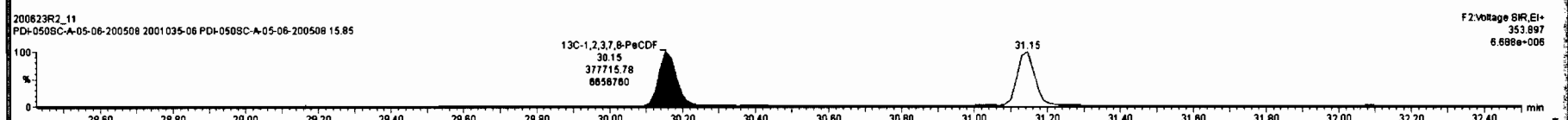
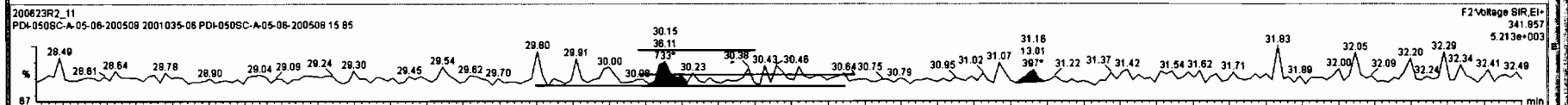
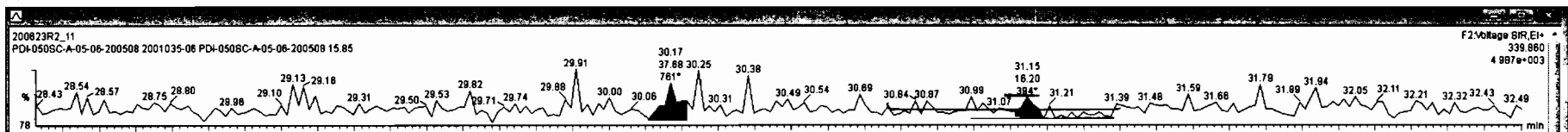


DPE2



Peak	Name	RT	Area	Height	Width	Height	Area	Height	Area	Height
43	Total Tetra-Furans		0.7510	10.040	23.61		0.0854		0.0225	0.0854
44	1st Func. Penta-Furans		0.6625	10.040	27.58				0.00868	
45	Total Hexa-Furans		0.9341	10.040	33.56				0.0198	
47	Total Hepta-Furans		0.8734	10.040	37.83				0.0432	
48	PFK1									
49	PFK2									

Name	RT	Int. Resp.	Ext. Resp.	PA	dy	EMPO	Cont.
1							



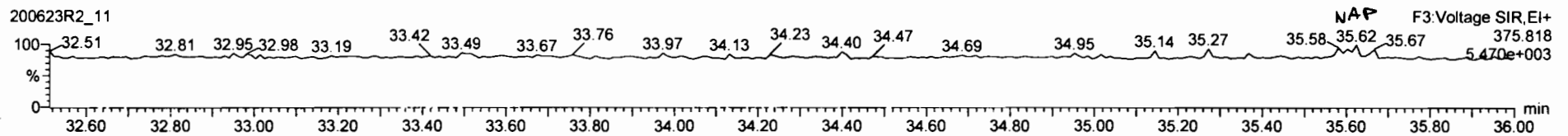
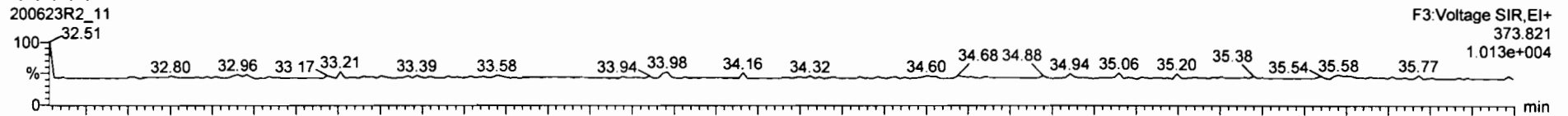
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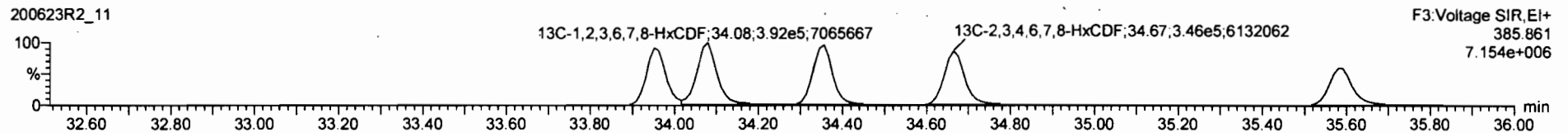
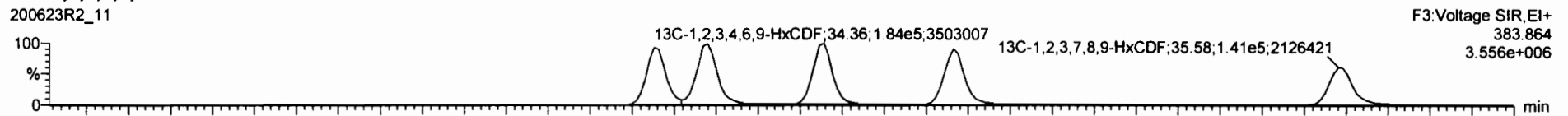
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

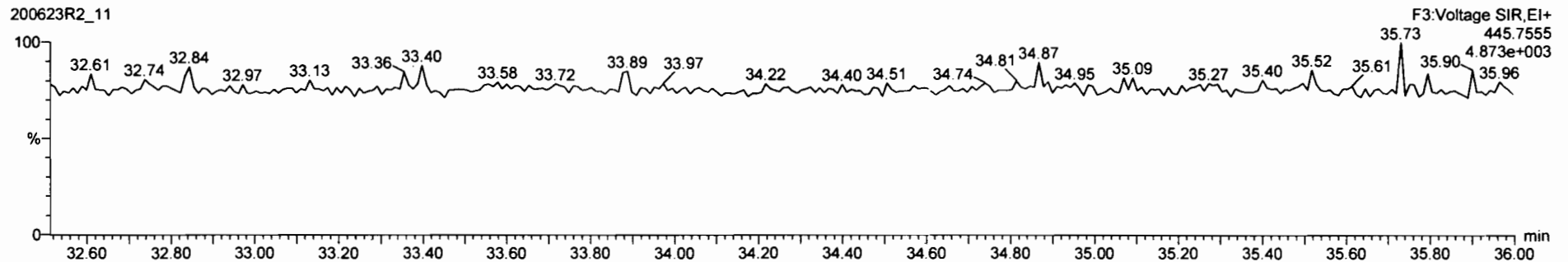
1,2,3,4,7,8-HxCDF



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

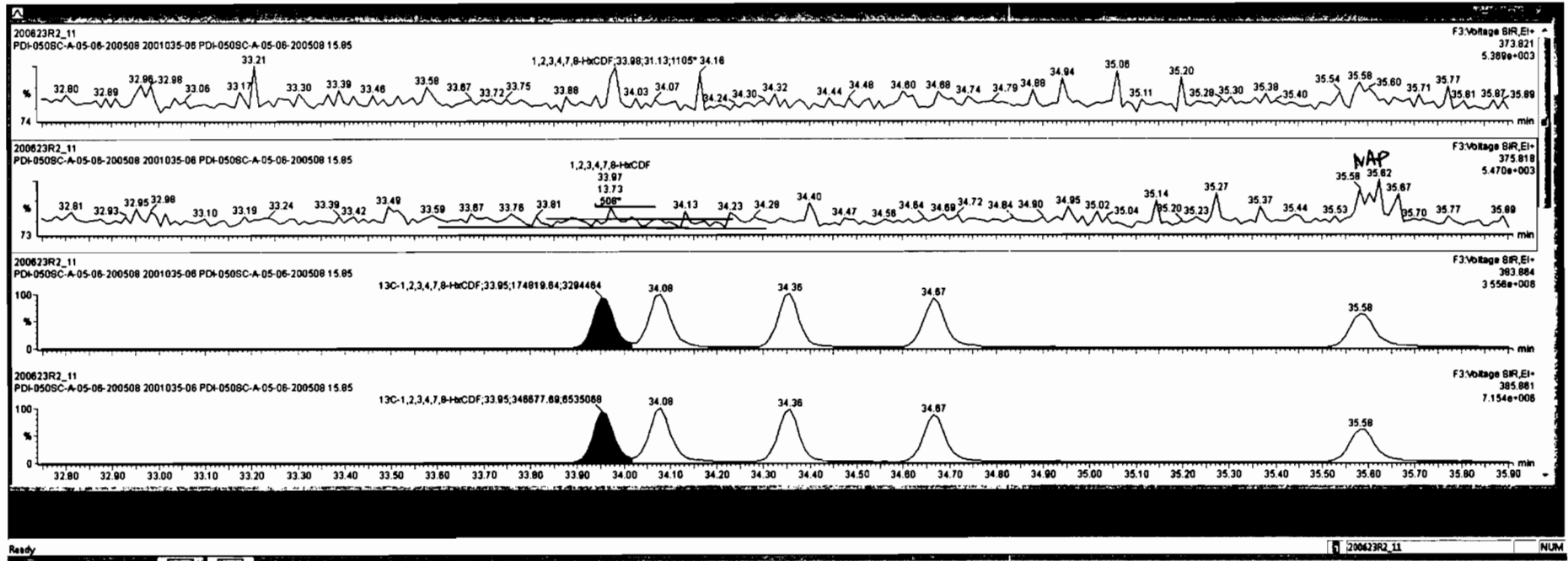


DPE3



RT	Area	Height	W	Area%	Height%	W%	Area%	Height%	W%	Area%	Height%	W%
33.98	3.113e1	1.373e1	2.27	YES	0.013285	0.00000						

RT	Area	Height	W	Area%	Height%	W%	Area%	Height%	W%	Area%	Height%	W%
33.98	3.113e1	1.373e1	2.27	YES	0.013285	0.00000						

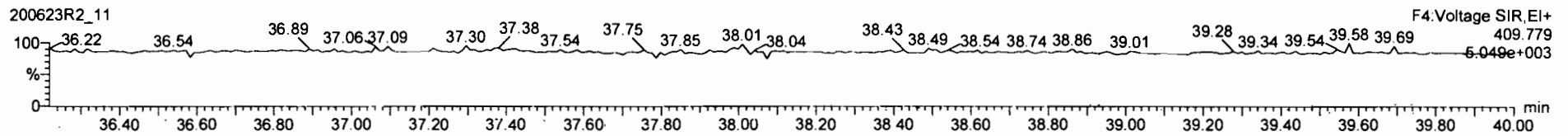
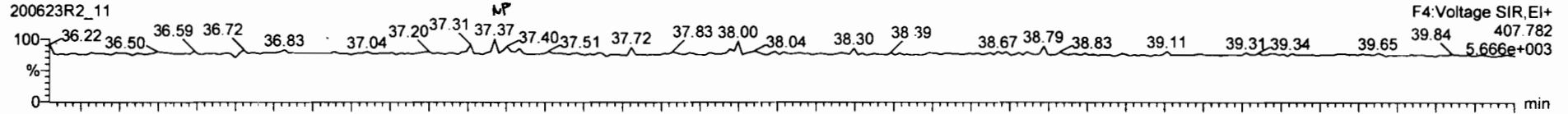


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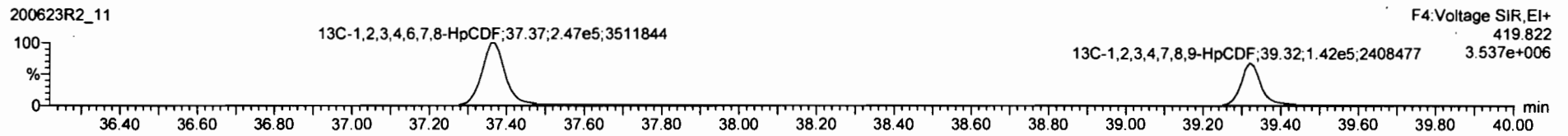
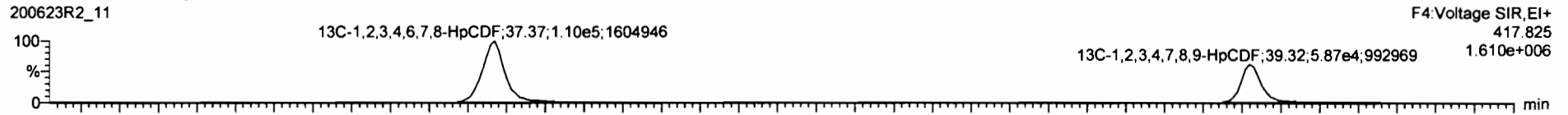
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508

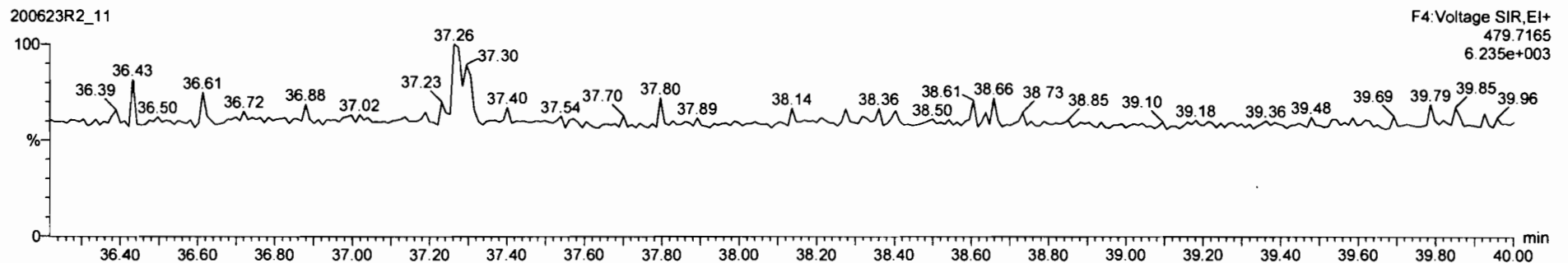
1,2,3,4,6,7,8-HpCDF



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



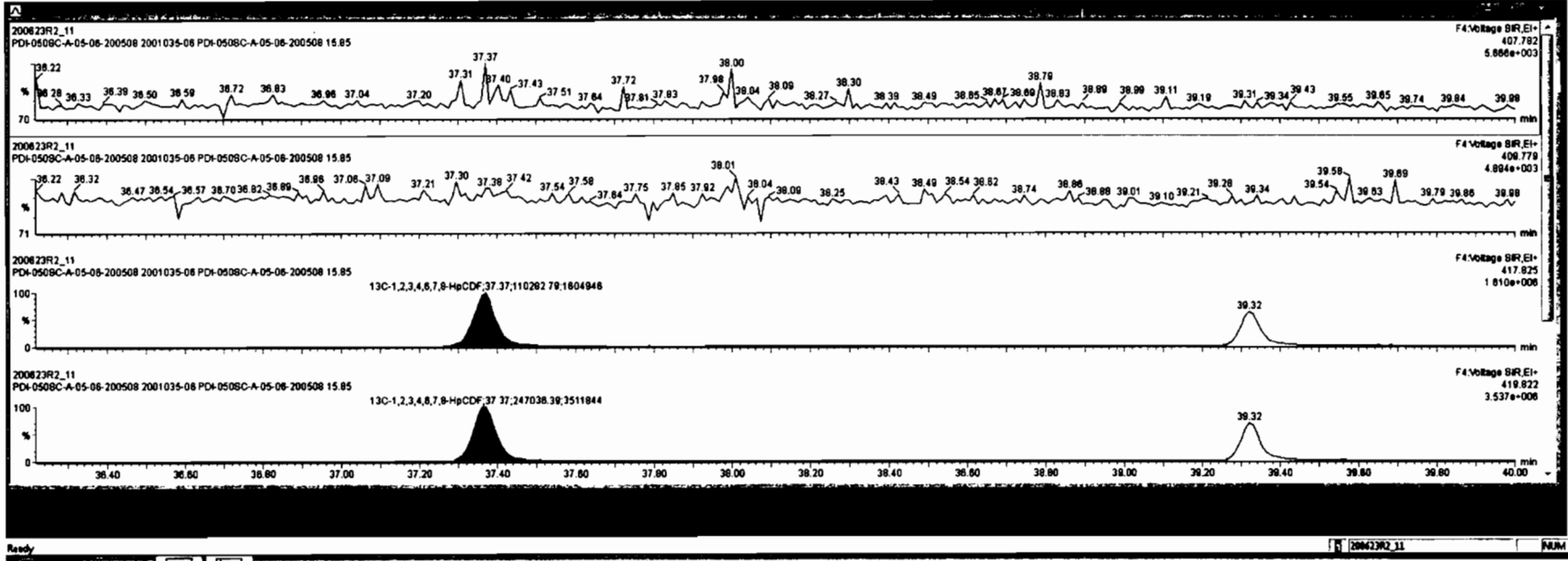
DPE4



File Edit View Display Processing Window Help

Peak	Retention Time	Area	Height	Width	Integration	Response	Concentration
23	37.31	10.040	23.81			0.0854	0.0225
24	37.40	10.040	27.58				0.0088
25	37.51	10.040	28.27				0.0128
26	37.83	10.040	33.58				0.0198
PP1							
PP2							

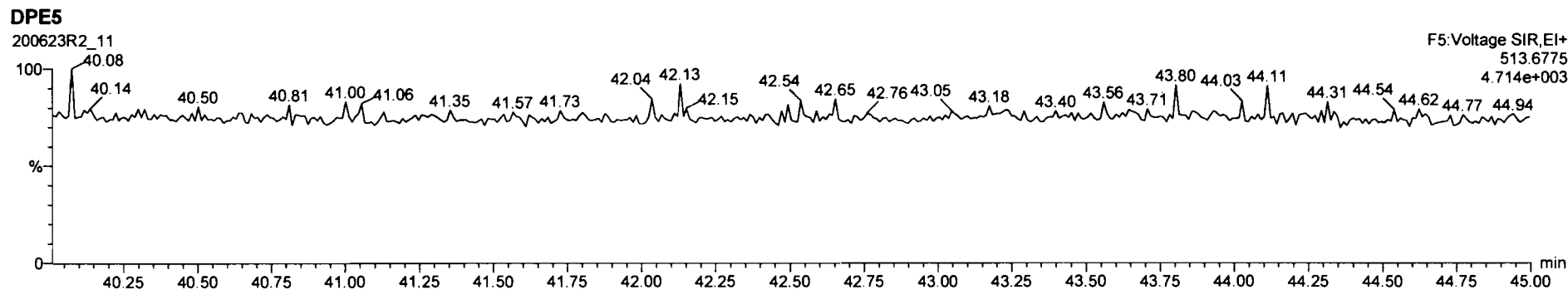
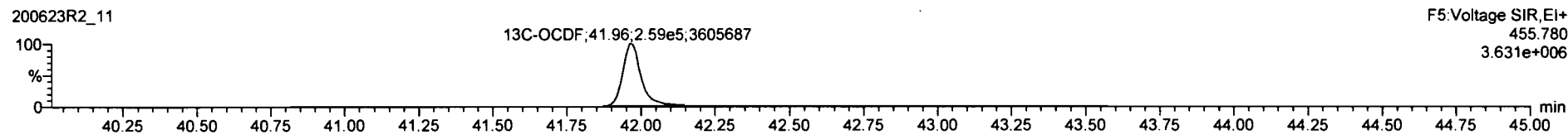
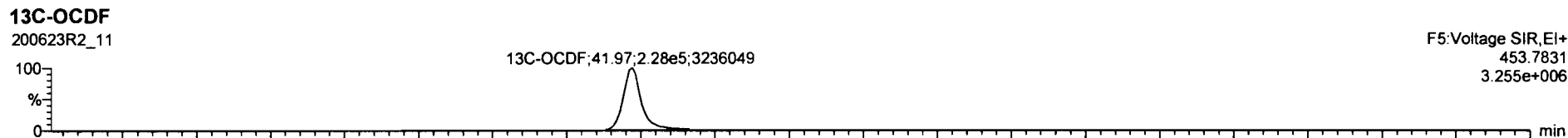
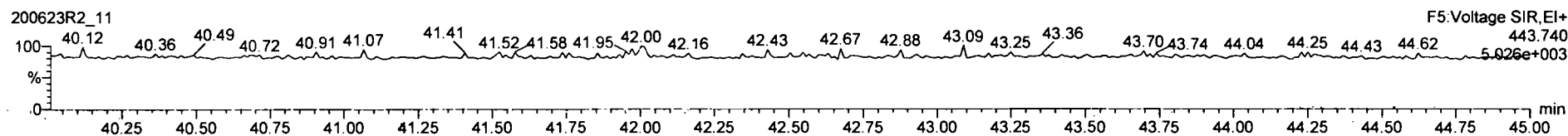
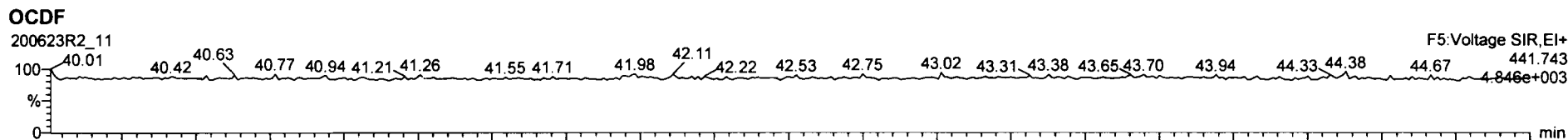
Time	RT	Int. Resp.	Sub Resp.	PA	dy	DFPC	Cond.



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

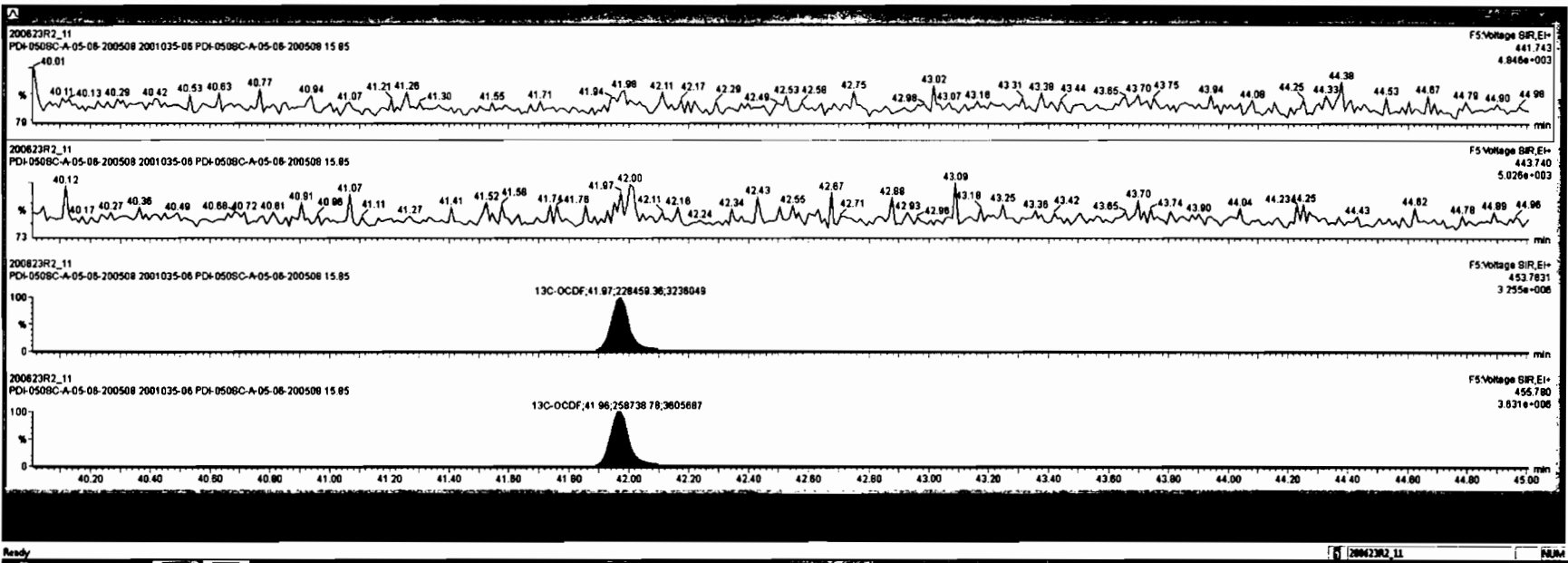
Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508





17	13C-2,3,7,8-TCDD	7.80e5	0.81	NO	1.1583	10.040	28.49	28.47	1.026	222	111	0.279
18	13C-1,2,3,7,8-PeCDD	8.26e5	0.83	NO	0.8480	10.040	31.87	31.65	1.219	249	125	0.821
19	13C-1,2,3,4,7,8-HxCDD	3.98e5	1.32	NO	0.7790	10.040	34.84	34.84	1.014	186	93.2	0.406
20	13C-1,2,3,6,7,8-HxCDD	4.98e5	1.19	NO	1.0187	10.040	34.85	34.84	1.017	178	89.4	0.311
21	13C-1,2,3,7,8,9-HxCDD	4.48e5	1.29	NO	0.9027	10.040	35.23	35.22	1.025	180	90.2	0.350
22	13C-1,2,3,4,6,7,8-HpCDD	2.68e5	1.11	NO	0.8862	10.040	38.75	38.78	1.129	151	75.7	0.508

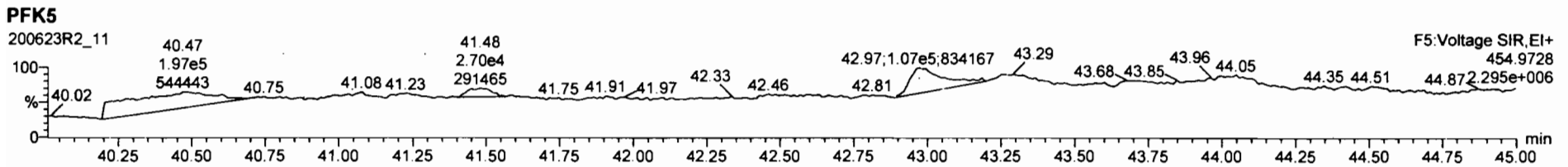
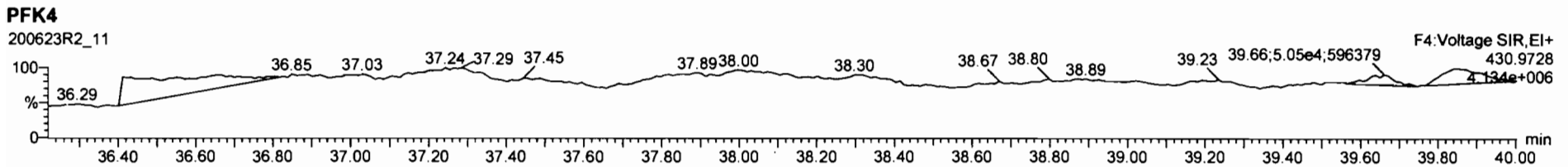
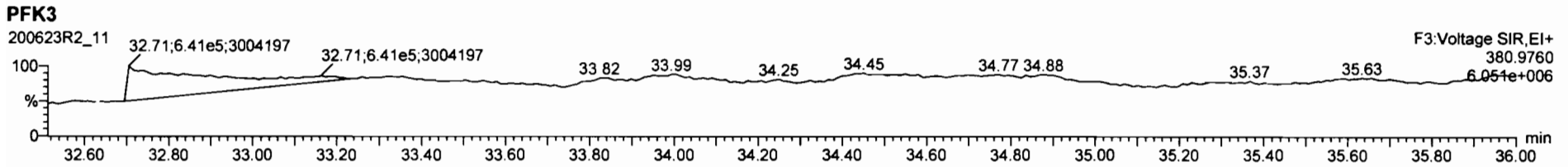
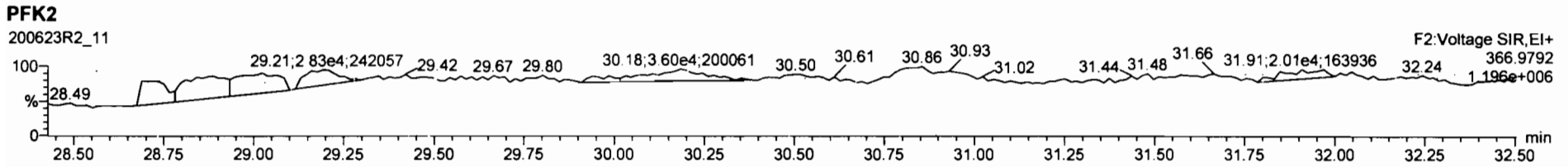
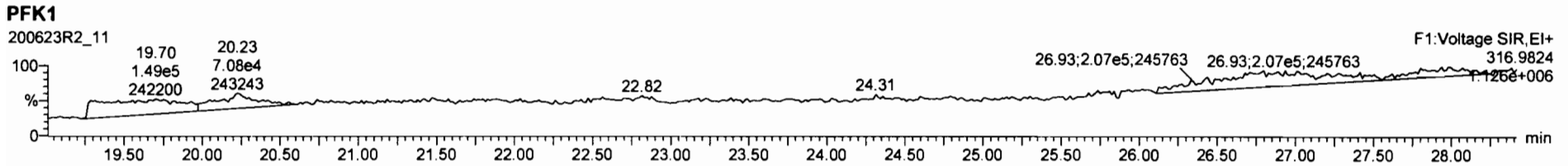
17	13C-2,3,7,8-TCDD	7.80e5	0.81	NO	1.1583	10.040	28.49	28.47	1.026	222	111	0.279
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Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_11, Date: 23-Jun-2020, Time: 22:47:29, ID: 2001035-06 PDI-050SC-A-05-06-200508 15.85, Description: PDI-050SC-A-05-06-200508



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-12C.qld

Last Altered: Friday, July 17, 2020 9:44:36 AM Pacific Daylight Time
Printed: Friday, July 17, 2020 9:45:21 AM Pacific Daylight Time

HN 07/17/2020

07/19/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

Peak	RA	n/y	RRF	W/Vol	Prod.F1	Prod.F2	RRF	W/Vol	Prod.F1	Prod.F2	RRF	W/Vol	Prod.F1	Prod.F2
1			NO	0.888	10.034	26.486			1.001					0.0540
2			NO	0.908	10.034	31.457			1.001					0.0882
3			NO	1.03	10.034	34.835			1.000					0.0993
4			NO	0.892	10.034	34.931			1.000					0.104
5	2.64e2	1.64	YES	0.887	10.034	35.219	35.24	1.000	1.001	0.12995				0.117 0.110
6	1.87e3	0.93	NO	0.864	10.034	38.778	38.79	1.000	1.001	1.4023				0.135 1.40
7	1.30e4	0.95	NO	0.914	10.034	41.780	41.79	1.000	1.000	13.344				0.235 13.3
8			NO	0.751	10.034	25.596			1.001					0.0353
9			NO	0.893	10.034	30.175			1.001					0.0286
10			NO	0.935	10.034	31.161			1.001					0.0266
11			NO	0.884	10.034	33.941			1.000					0.0472
12			NO	0.889	10.034	34.079			1.000					0.0436
13			NO	0.934	10.034	34.690			1.001					0.0469
14			NO	0.871	10.034	35.570			1.000					0.0718
15			NO	0.873	10.034	37.386			1.001					0.139
16			NO	1.01	10.034	39.319			1.000					0.182
17			NO	0.806	10.034	41.972			1.000					0.0943
18	9.68e5	0.79	NO	1.16	10.034	26.491	26.45	1.026	1.025	223.44	112			0.178
19	6.47e5	0.63	NO	0.849	10.034	31.674	31.43	1.227	1.218	203.42	102			0.442
20	3.98e5	1.25	NO	0.779	10.034	34.830	34.83	1.014	1.014	187.58	94.1			0.501
21	5.16e5	1.25	NO	1.02	10.034	34.944	34.93	1.017	1.017	186.10	93.4			0.384
22	4.56e5	1.25	NO	0.903	10.034	35.215	35.21	1.025	1.025	185.42	93.0			0.432
23	3.08e5	1.03	NO	0.689	10.034	38.739	38.77	1.128	1.129	163.91	82.2			0.522
24	4.27e5	0.84	NO	0.652	10.034	41.761	41.78	1.216	1.216	240.10	60.2			0.694
25	1.15e6	0.79	NO	1.06	10.034	25.534	25.57	0.989	0.991	235.50	118			0.355
26	9.91e5	1.59	NO	0.838	10.034	30.058	30.15	1.165	1.168	256.69	129			0.455
27	9.28e5	1.59	NO	0.817	10.034	31.011	31.13	1.202	1.206	246.87	124			0.467
28	5.27e5	0.50	NO	1.01	10.034	33.961	33.94	0.989	0.988	192.04	96.3			0.604
29	6.15e5	0.51	NO	1.17	10.034	34.085	34.07	0.992	0.992	193.52	97.1			0.521
30	5.53e5	0.49	NO	1.02	10.034	34.659	34.65	1.009	1.009	198.46	99.6			0.595
31	4.55e5	0.49	NO	0.860	10.034	35.558	35.57	1.035	1.036	194.23	97.4			0.708

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-12C.qld

Last Altered: Friday, July 17, 2020 9:44:36 AM Pacific Daylight Time

Printed: Friday, July 17, 2020 9:45:21 AM Pacific Daylight Time

Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

	Mass	RA	NY	RRF										
32	13C-1,2,3,4,6,7,8-HpCDF	3.69e5	0.43	NO	0.774	10.034	37.307	37.35	1.086	1.087	175.03	87.8	0.563	
33	13C-1,2,3,4,7,8,9-HpCDF	2.13e5	0.44	NO	0.521	10.034	39.336	39.32	1.145	1.145	150.06	75.3	0.837	
34	13C-OCDF	5.39e5	0.88	NO	0.746	10.034	41.933	41.97	1.221	1.222	265.11	66.5	0.529	
35	37Cl-2,3,7,8-TCDD	3.40e5			1.04	10.034	26.522	26.48	1.028	1.026	87.466	110	0.0734	
36	13C-1,2,3,4-TCDD	7.47e5	0.80	NO	1.00	10.034	25.890	25.81	1.000	1.000	199.32	100	0.206	
37	13C-1,2,3,4-TCDF	9.18e5	0.78	NO	1.00	10.034	24.360	24.12	1.000	1.000	199.32	100	0.376	
38	13C-1,2,3,4,6,9-HxCDF	5.43e5	0.50	NO	1.00	10.034	34.420	34.35	1.000	1.000	199.32	100	0.608	
39	Total Tetra-Dioxins				0.888	10.034	24.620		0.000		0.26821		0.0540	0.268
40	Total Penta-Dioxins				0.908	10.034	29.960		0.000		0.11623		0.0882	0.247
41	Total Hexa-Dioxins				0.892	10.034	33.635		0.000		1.4983		0.111	1.61
42	Total Hepta-Dioxins				0.864	10.034	37.640		0.000		3.6404		0.135	3.64
43	Total Tetra-Furans				0.751	10.034	23.610		0.000		0.23134		0.0353	0.231
44	1st Func. Penta-Furans				0.893	10.034	27.580		0.000				0.00816	
45	Total Penta-Furans				0.893	10.034	29.275		0.000				0.0118	
46	Total Hexa-Furans				0.934	10.034	33.555		0.000				0.0305	
47	Total Hepta-Furans				0.873	10.034	37.835		0.000				0.0721	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-12C.qld

Last Altered: Friday, July 17, 2020 9:44:36 AM Pacific Daylight Time
 Printed: Friday, July 17, 2020 9:45:21 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Comp	Conc	EMPC	PDI
Total Tetra-Dioxins	24.27	4.327e3	7.349e3	3.790e2	4.760e2	0.80	NO	8.549e2	0.19811	0.19811	0.0540
Total Tetra-Dioxins	25.76	4.133e3	2.446e3	1.366e2	1.659e2	0.82	NO	3.025e2	0.070098	0.070098	0.0540

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Comp	Conc	EMPC	PDI
Total Penta-Dioxins	29.25	2.725e3	3.566e3	1.344e2	2.083e2	0.65	NO	3.427e2	0.11623	0.11623	0.0882
Total Penta-Dioxins	29.73	3.683e3	7.611e3	1.496e2	3.086e2	0.48	YES	0.000e0	0.00000	0.13125	0.0882

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Comp	Conc	EMPC	PDI
Total Hexa-Dioxins	33.32	2.078e4	1.846e4	1.209e3	9.732e2	1.24	NO	2.182e3	1.0676	1.0676	0.111
Total Hexa-Dioxins	34.15	8.172e3	5.912e3	4.553e2	4.250e2	1.07	NO	8.802e2	0.43067	0.43067	0.111
1,2,3,7,8,9-HxCDD	35.24	3.231e3	2.177e3	1.640e2	9.975e1	1.64	YES	2.637e2	0.00000	0.11011	0.117

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Comp	Conc	EMPC	PDI
Total Hepta-Dioxins	37.78	1.883e4	1.777e4	1.503e3	1.482e3	1.01	NO	2.986e3	2.2382	2.2382	0.135
1,2,3,4,6,7,8-HpCDD	38.79	1.296e4	1.459e4	9.010e2	9.697e2	0.93	NO	1.871e3	1.4023	1.4023	0.135

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Comp	Conc	EMPC	PDI
Total Tetra-Furans	21.45	5.929e3	6.922e3	4.012e2	5.998e2	0.67	NO	1.001e3	0.23134	0.23134	0.0353

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-12C.qld

Last Altered: Friday, July 17, 2020 9:44:36 AM Pacific Daylight Time

Printed: Friday, July 17, 2020 9:45:21 AM Pacific Daylight Time

Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n	Resp	Comp	EMPC	DC
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Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n	Resp	Comp	EMPC	DC
------	----	-----------	-----------	---------	---------	----	---	------	------	------	----

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n	Resp	Comp	EMPC	DC
------	----	-----------	-----------	---------	---------	----	---	------	------	------	----

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n	Resp	Comp	EMPC	DC
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Dataset: Untitled

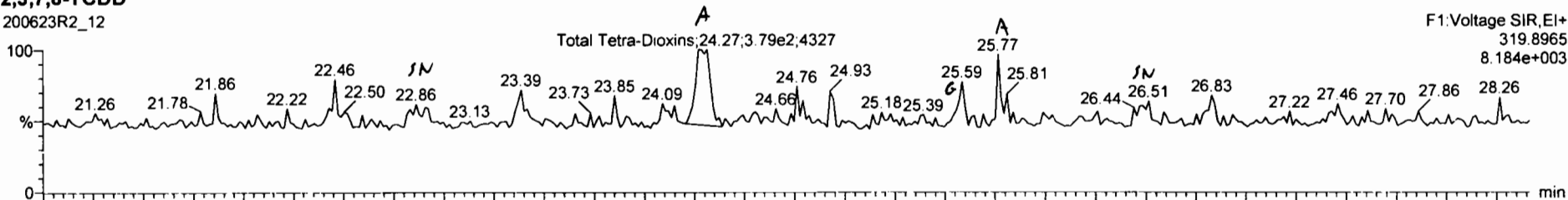
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

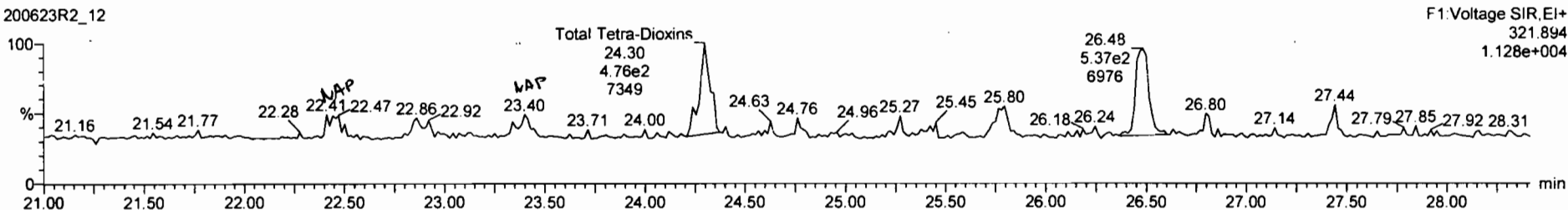
Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

2,3,7,8-TCDD

200623R2_12

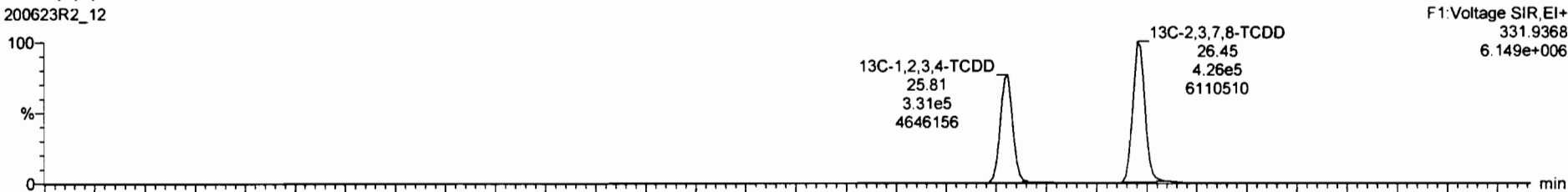


200623R2_12

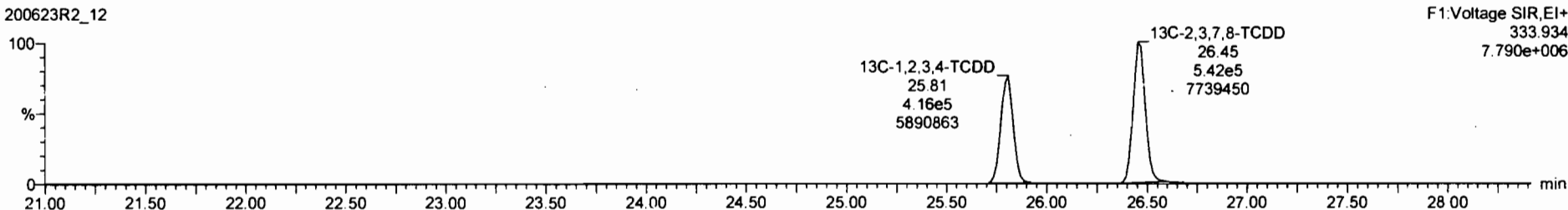


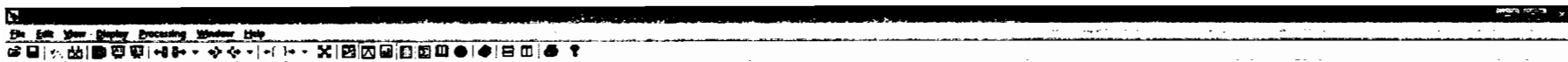
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200623R2_12



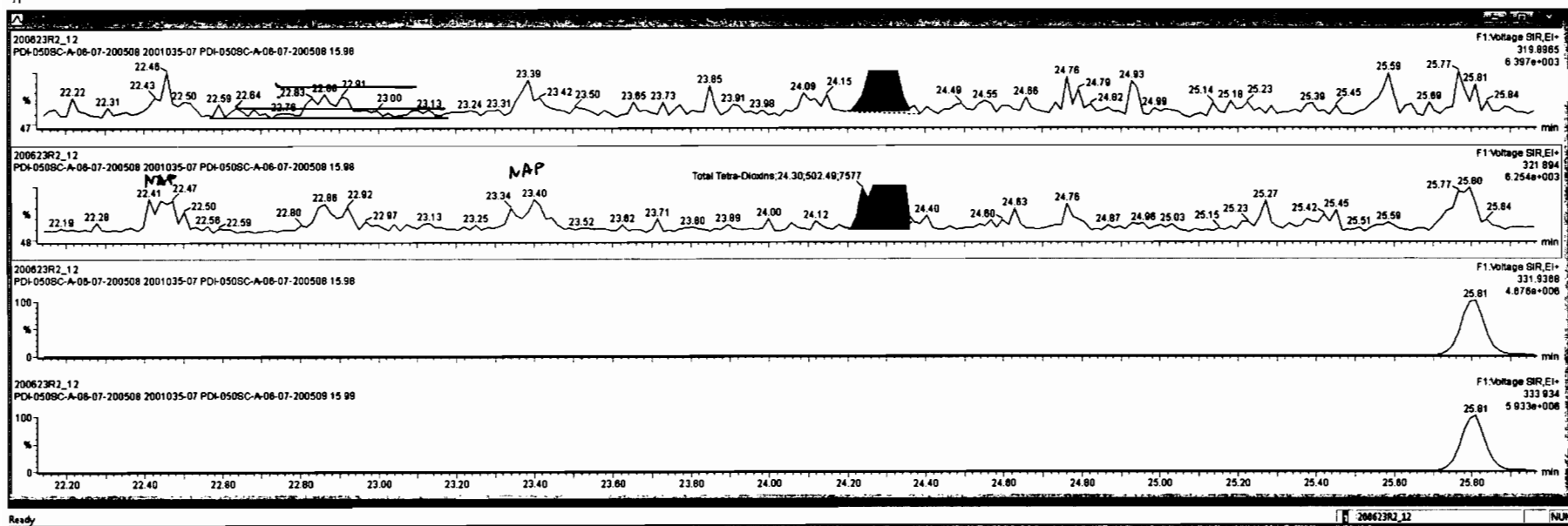
200623R2_12





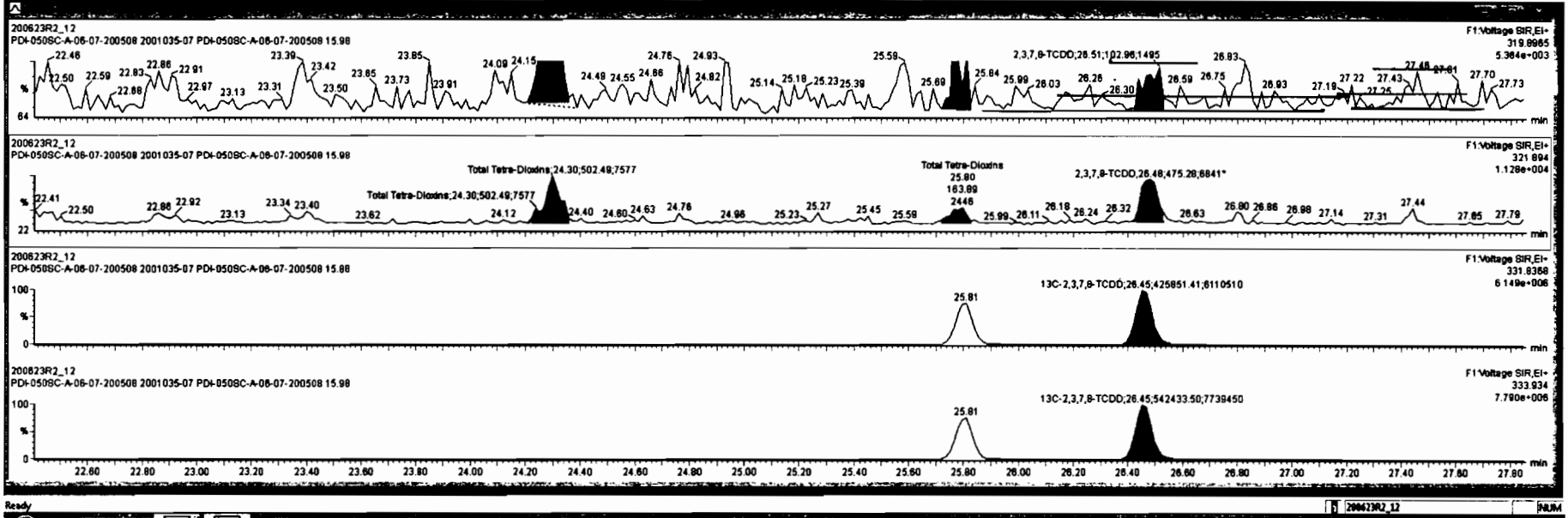
PK1	Peak	Area	Height	Width	Retention	Conc.	Ratio	CL	DFPC
46	Total Penta-Dioxins	0.0081	10.034	28.98			0.0388		
46	Total Hexa-Dioxins	0.0023	10.034	33.83		1.07	0.111	1.43	
42	Total Hepta-Dioxins	0.0036	10.034	37.84		3.88	0.135	3.88	
43	Total Tetra-Furans	0.7510	10.034	23.81		0.242	0.0353	0.242	
44	1st Func. Penta-Furans	0.0025	10.034	27.58			0.00818		
45	Total Penta-Furans	0.0025	10.034	28.27			0.0118		
46	Total Hexa-Furans	0.0041	10.034	33.56			0.0305		
47	Total Hepta-Furans	0.8734	10.034	37.83			0.0721		

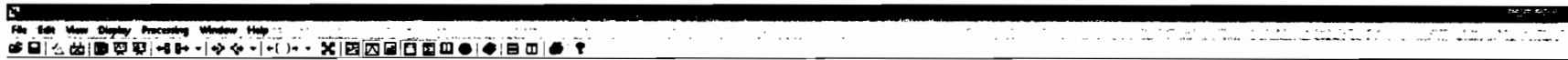
Name	RT	Int Ramp	Int2 Ramp	PA	dy	DFPC	Conc.
Total Tetra-Dioxins	24.27	3.505e2	5.025e2	0.70	NO	0.18768	0.18768



Item	Mass	Flow	Area	Conc	Unit	Vol	Temp	Time	Conc	Unit	Vol	Temp
13C-1,2,3,4,6,8-HxCDF	5.43e5	0.50	NO	1.0000	10.034	34.42	34.35	1.000	100	100	0.800	
40	Total Penta-Dioxins			0.9081	10.034	29.96						0.0300
41	Total Hexa-Dioxins			0.8923	10.034	33.83			1.07			0.111 1.43
42	Total Hepta-Dioxins			0.8639	10.034	37.84			3.80			0.135 3.68
43	Total Tetra-Furans			0.7510	10.034	23.81			0.242			0.0353 0.242
44	1st Func. Penta-Furans			0.8925	10.034	27.58						0.00818
45	Total Penta-Furans			0.8925	10.034	29.27						0.0118
46	Total Hexa-Furans			0.8341	10.034	33.56						0.0305
47	Total Hepta-Furans			0.8734	10.034	37.83						0.0721

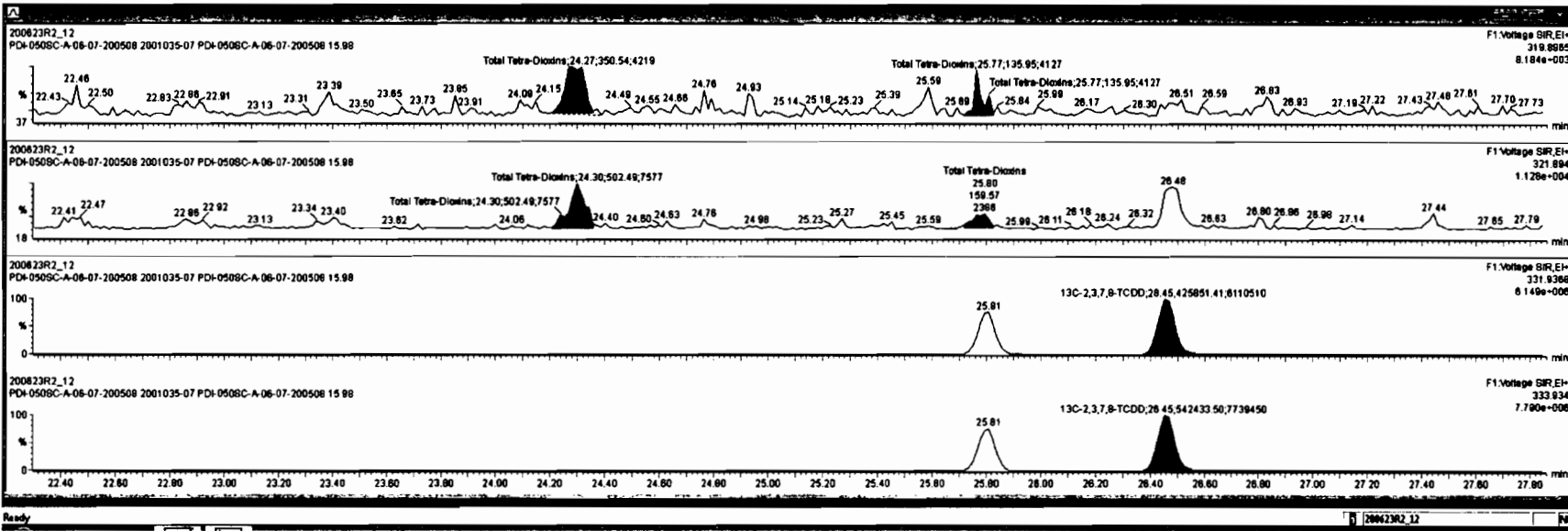
Item	Mass	Flow	Area	Conc	Unit	Vol	Temp	Time	Conc	Unit	Vol	Temp
1	Total Tetra-Dioxins	3.505e2	5.025e2	0.70	NO	0.19788			0.19788			
2	Total Tetra-Dioxins	1.370e2	1.830e2	0.84	NO	0.089736			0.089736			
3	2,3,7,8-TCDD	1.030e2	4.585e2	0.23	YES	0.054846			0.00000			





Sample	Time	Area	Height	Width	Ret. Time	Label	Quantity	Unit	Conc.
13C-1,2,3,4,6,8-HeCDF	5.43e5	0.50	NO	1.0000	10.034	34.42	34.35	1.000	100
Total Perfluorocarbon					0.9081	10.034	28.98		0.0398
Total Hexa-Dioxine					0.8623	10.034	33.63	1.07	0.111
Total Hepta-Dioxine					0.8638	10.034	37.64	3.88	0.136
Total Tetra-Furane					0.7510	10.034	23.81	0.242	0.0363
1st Func. Perfluorinated					0.8825	10.034	27.58		0.00916
Total Perfluorinated					0.8825	10.034	28.27		0.0118
Total Hexa-Furane					0.9341	10.034	33.58		0.0305
Total Hepta-Furane					0.8734	10.034	37.83		0.0721

Sample	Time	Area	Height	Width	Ret. Time	Label	Quantity	Unit	Conc.
Total Tetra-Dioxine	24.27	3.505e2	5.025e2	0.70	NO	0.18788	0.18788		
Total Tetra-Dioxine	25.77	1.380e2	1.586e2	0.85	NO	0.088483	0.088483		



Dataset: Untitled

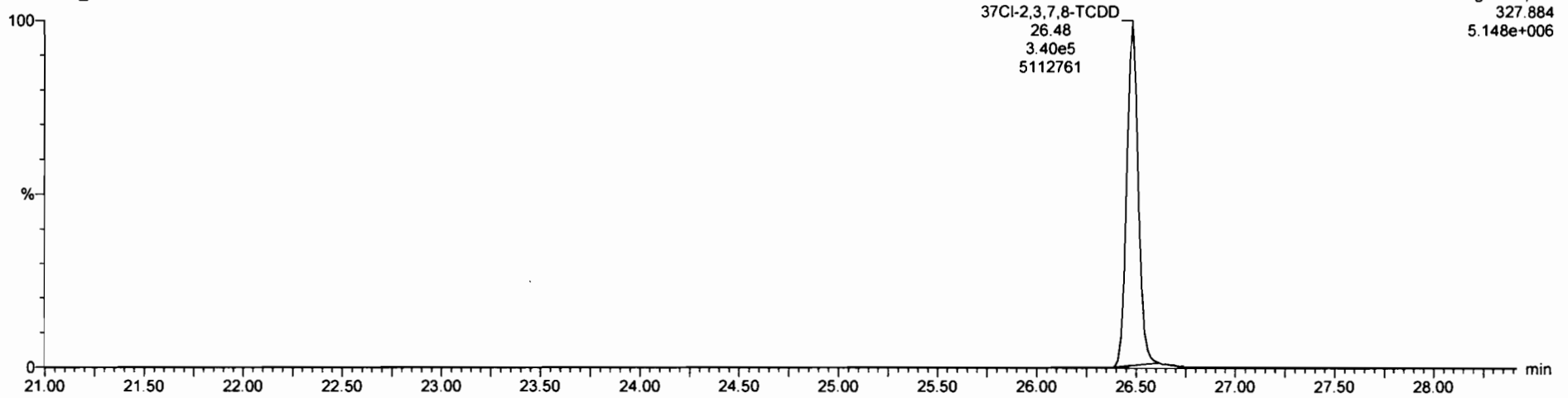
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

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

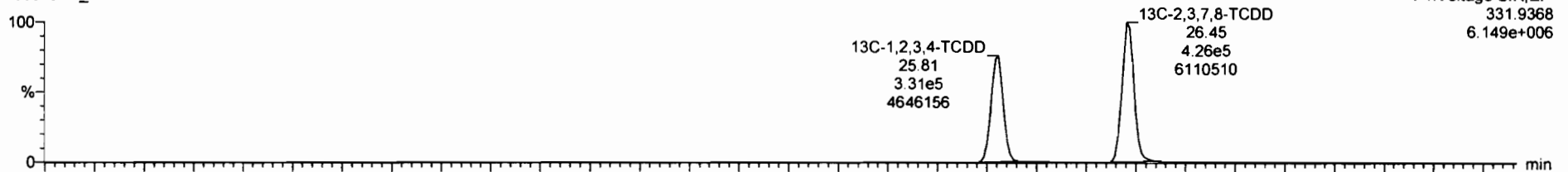
200623R2_12



F1:Voltage SIR,EI+
327.884
5.148e+006

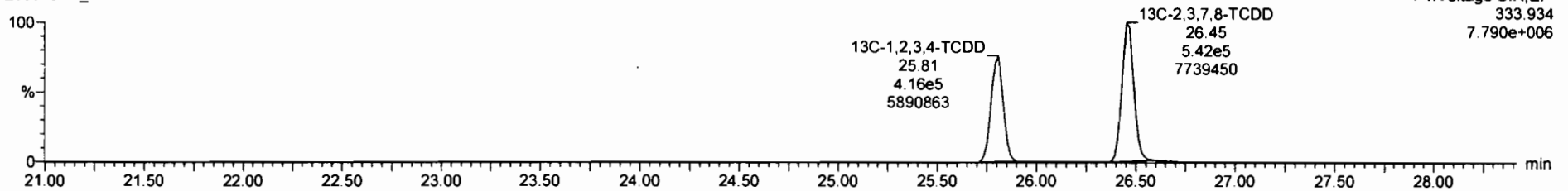
13C-1,2,3,4-TCDD

200623R2_12



F1:Voltage SIR,EI+
331.9368
6.149e+006

200623R2_12



F1:Voltage SIR,EI+
333.934
7.790e+006

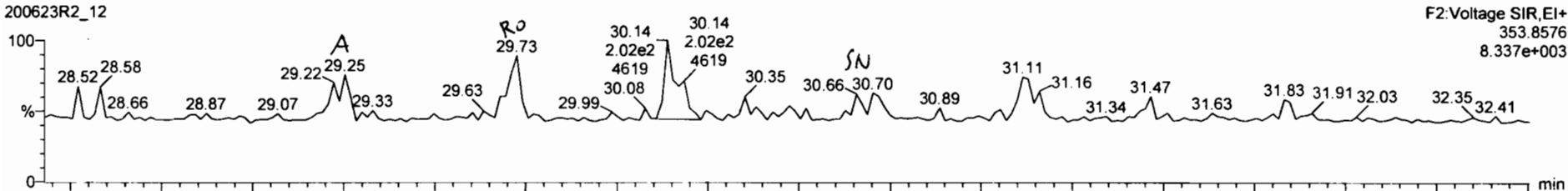
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

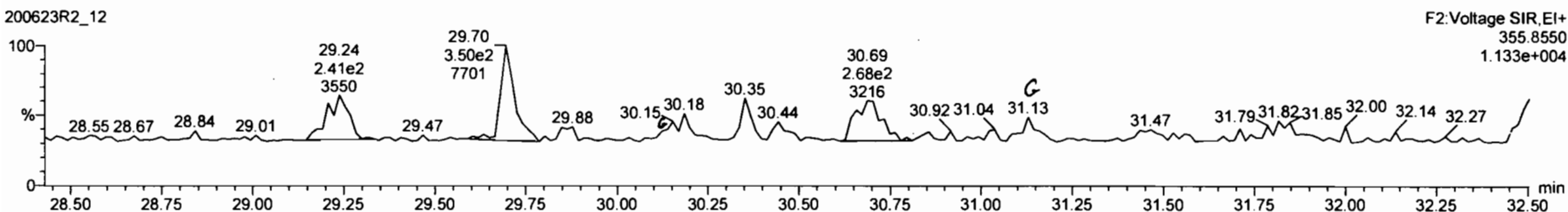
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1,2,3,7,8-PeCDD

200623R2_12



200623R2_12

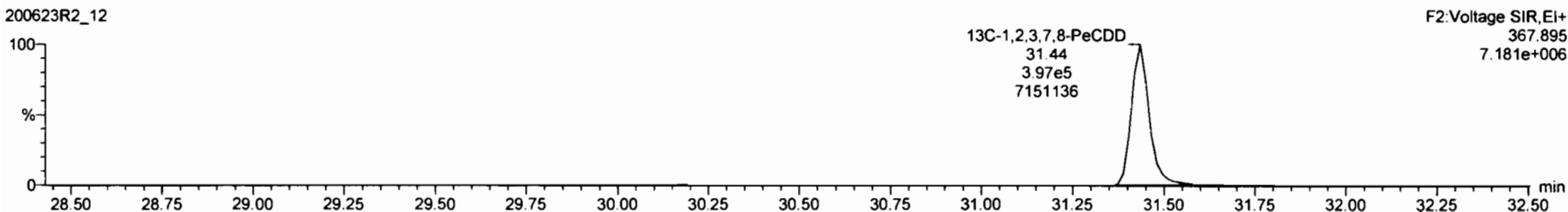


13C-1,2,3,7,8-PeCDD

200623R2_12

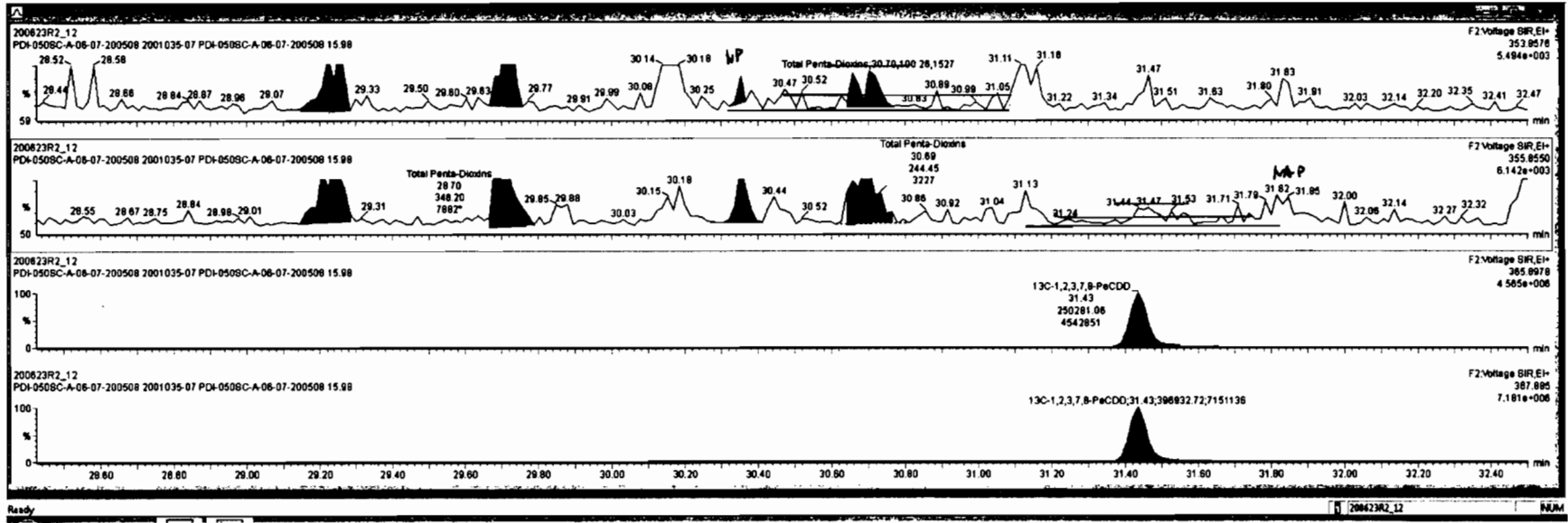


200623R2_12



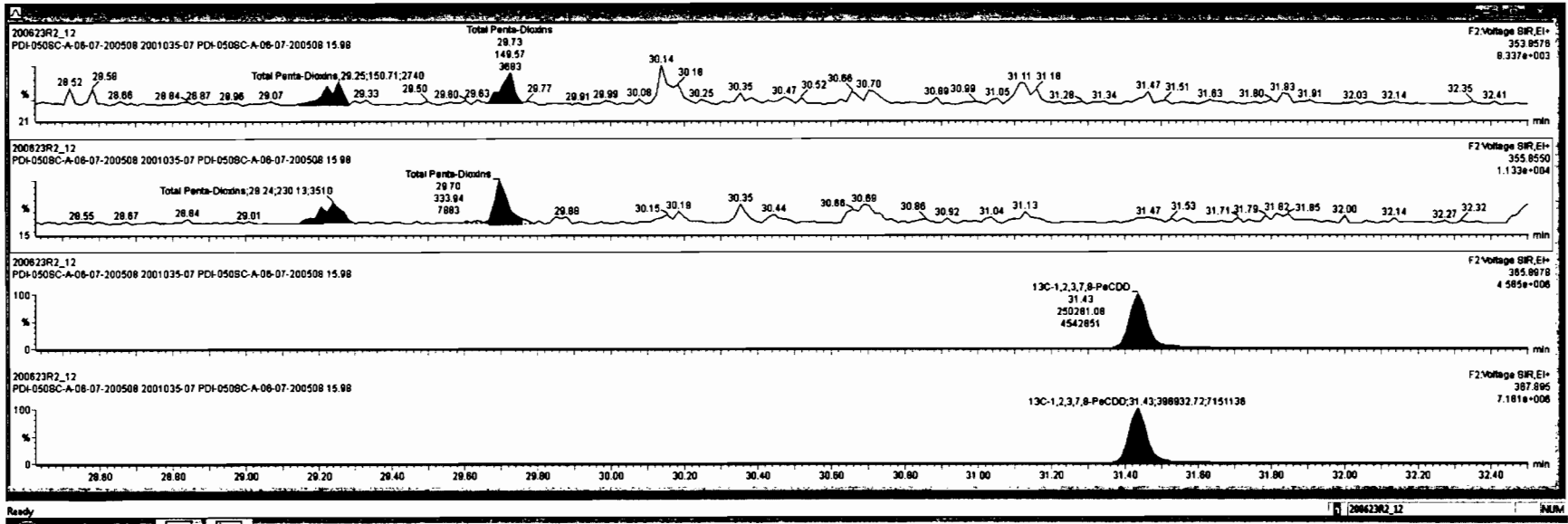
Item	Temp	Vol	inj	Flow	Conc	Area	Height	Area	Area	Area	Area
49	Total Penta-Furans				0.7510	10.034	23.81			0.0253	0.242
48	1st Func Penta-Furans				0.0625	10.034	27.58			0.00818	
48	Total Penta-Furans				0.0625	10.034	29.27			0.0118	
49	Total Hexa-Furans				0.8341	10.034	33.58			0.0305	
47	Total Hepta-Furans				0.8734	10.034	37.83			0.0721	
48	PFK1										
48	PFK2										
48	PFK3										
48	PFK4										
48	PFK5										

Item	RT	g/L	mg/L	Area	Height	Area	Area
1	Total Penta-Dioxins	29.25	1.838e2	2.301e2	0.71	NO	0.13363 0.13363
2	Total Penta-Dioxins	29.73	1.488e2	3.504e2	0.43	YES	0.13125 0.00000
3	Total Penta-Dioxins	30.35	1.820e1	1.080e2	0.18	YES	0.018647 0.00000
4	Total Penta-Dioxins	30.70	1.003e2	2.445e2	0.41	YES	0.067875 0.00000



RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
41	Total Hexa-Dioxine			0.8923	10.034	33.83				1.07	0.111	1.43
42	Total Hepta-Dioxine			0.8638	10.034	37.84				3.88	0.135	3.88
43	Total Tetra-Furane			0.7510	10.034	22.81				0.242	0.0363	0.242
44	1st Func. Penta-Furane			0.8825	10.034	27.58					0.00816	
45	Total Penta-Furane			0.8825	10.034	28.27					0.0118	
46	Total Hexa-Furane			0.8341	10.034	33.98					0.0305	
47	Total Hepta-Furane			0.8734	10.034	37.83					0.0721	
48	PHY1											
49	PHY2											

Name	RT	wt Resp	ncResp	PA	adj	SMPC	Cons
1 Total Penta-Dioxine	29.25	1.507e2	2.301e2	0.85	NO	0.12916	0.12916
2 Total Penta-Dioxine	29.73	1.495e2	3.339e2	0.45	YES	0.13125	0.00000



Dataset: Untitled

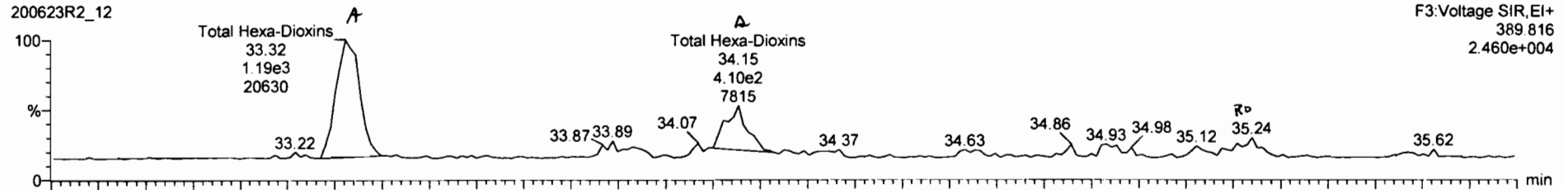
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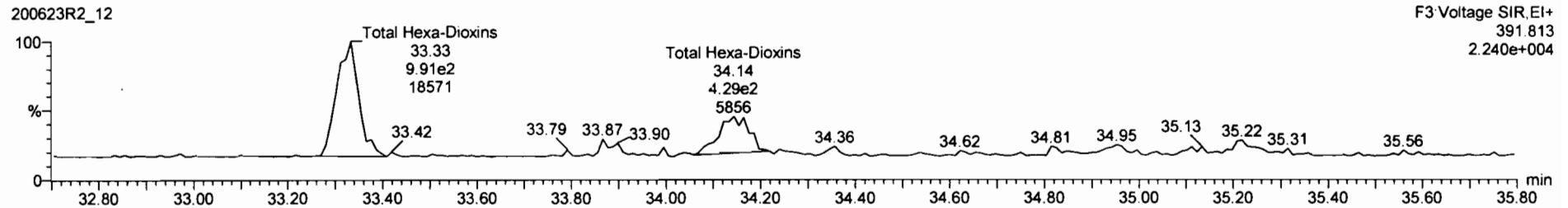
Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

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

200623R2_12



200623R2_12

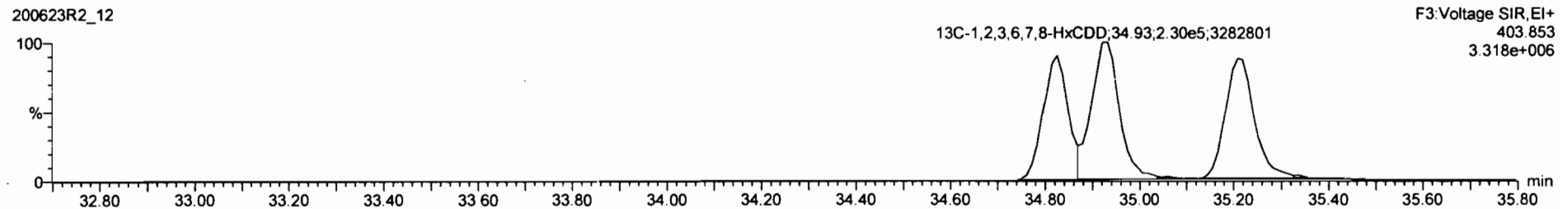


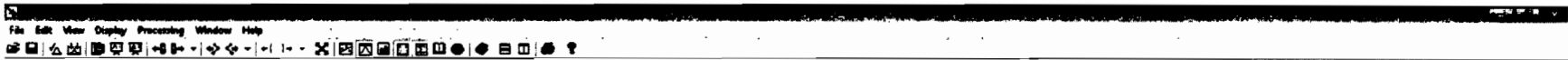
13C-1,2,3,4,7,8-HxCDD

200623R2_12



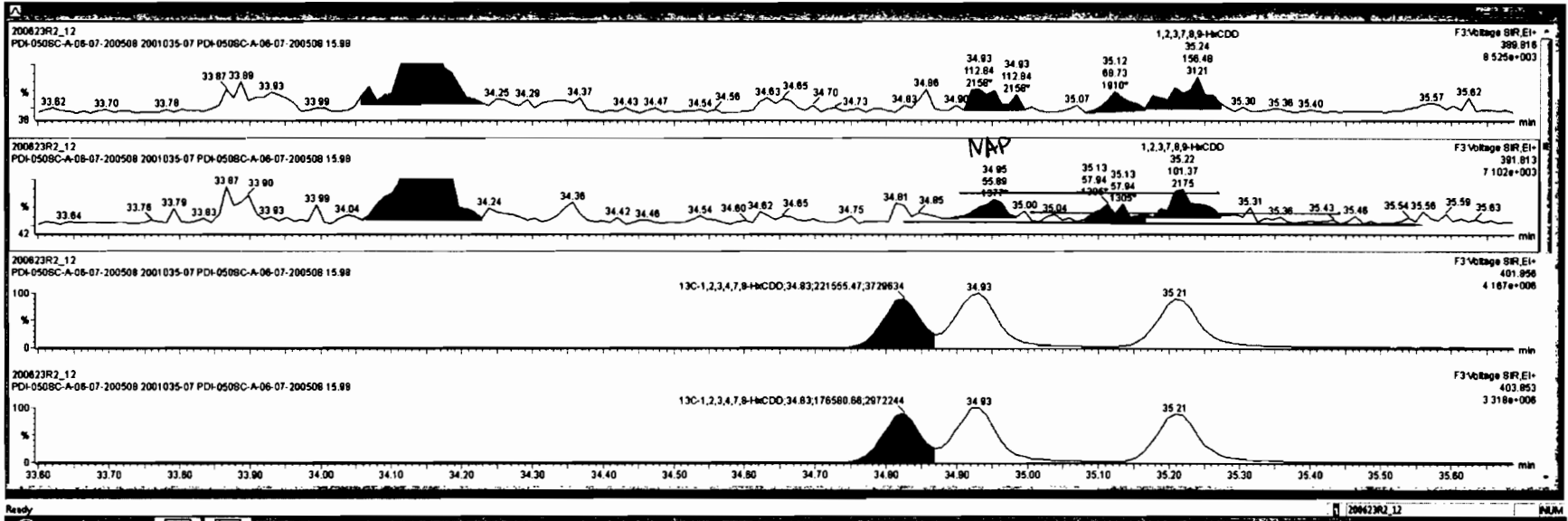
200623R2_12





RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
40	Total Hexa-Chloro	0.8091	10.034	29.80			0.120			0.0390		0.200
41	Total Hepta-Chloro	0.8638	10.034	37.84			3.96			0.135		3.86
42	Total Hexa-Furane	0.7510	10.034	23.81			0.242			0.0263		0.242
44	Total Penta-Furane	0.8625	10.034	27.68						0.02818		
46	Total Hexa-Furane	0.8625	10.034	28.27						0.0118		
48	Total Hepta-Furane	0.8341	10.034	33.58						0.0305		
49	Total Hepta-Furane	0.8734	10.034	37.83						0.0721		
49	PFK1											
49	PFK2											

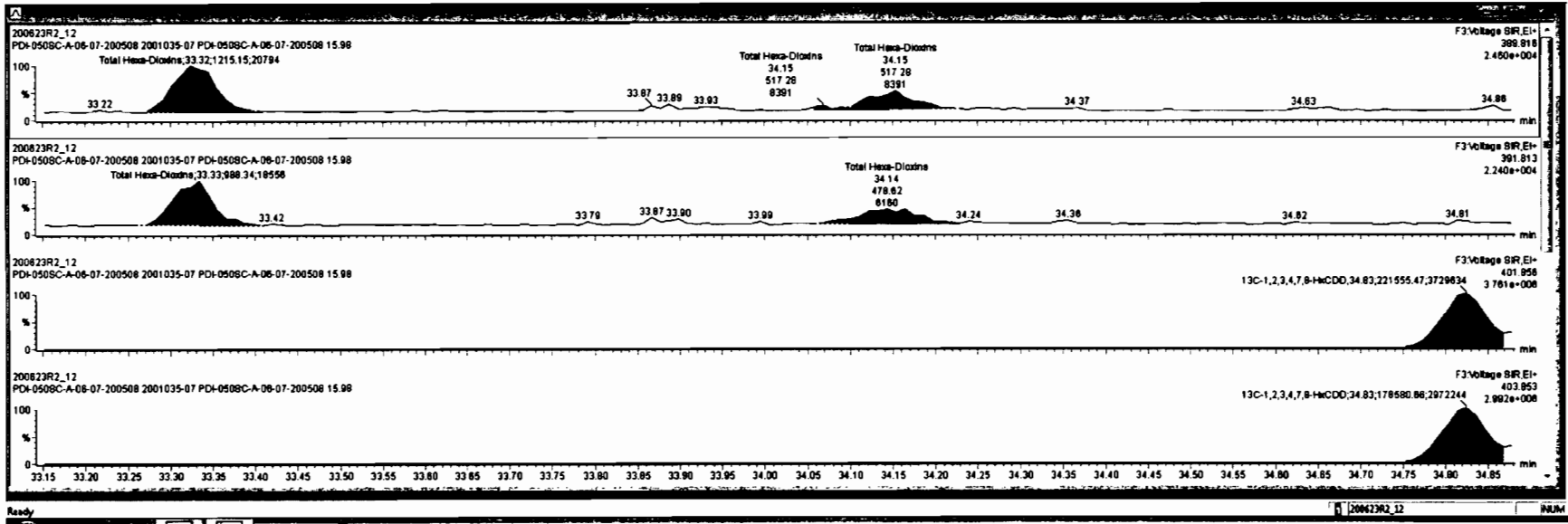
RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
1	Total Hexa-Chloro	33.32	1.21563	0.863e2	1.23	NO	1.0781	1.0781				
2	Total Hexa-Chloro	34.15	5.17362	4.786e2	1.08	NO	0.48728	0.48728				
3	1,2,3,7,8,9-HxCDD	35.24	1.58562	1.014e2	1.54	YES	0.11180	0.00000				



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Peak	Name	RT	Area	Height	Width	Height	Area	Height	Area	Height	Area	Height
40	Total Penta-Dioxins	0.8091	10.034	28.80					0.129	0.0000	0.280	
41	Total Hexa-Dioxins	0.8025	10.034	27.84						0.0740		
42	Total Hepta-Dioxins	0.8038	10.034	27.84						0.0374		
43	Total Tetra-Furans	0.7510	10.034	23.81					0.242	0.0363	0.242	
44	1st Func. Penta-Furans	0.8025	10.034	27.88						0.00816		
45	Total Penta-Furans	0.8025	10.034	28.27						0.0118		
46	Total Hexa-Furans	0.8341	10.034	33.98						0.0305		
47	Total Hepta-Furans	0.8734	10.034	37.83						0.0721		
48	PFK1											
49	PFK2											

Peak	Name	RT	Area	Height	Width	Height	Area	Height	Area	Height	Area	Height
1	Total Hexa-Dioxins	33.32	1.215e3	8.883e2	1.23	MO	1.0781	1.0781				
2	Total Hexa-Dioxins	34.15	5.173e2	4.788e2	1.08	MO	0.48726	0.48726				
3	1,2,3,7,8-HxCDD	35.24	1.585e2	1.014e2	1.54	YES	0.11190	0.00000				



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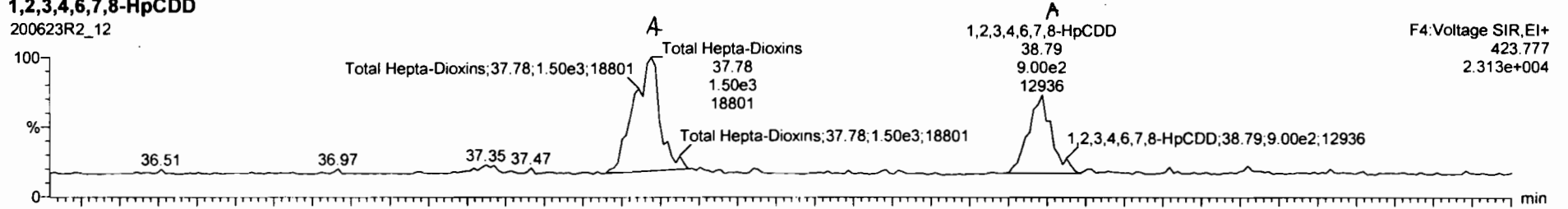
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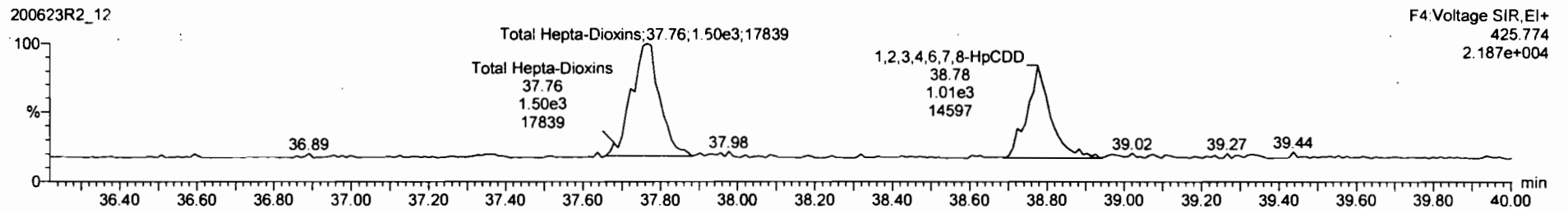
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1,2,3,4,6,7,8-HpCDD

200623R2_12

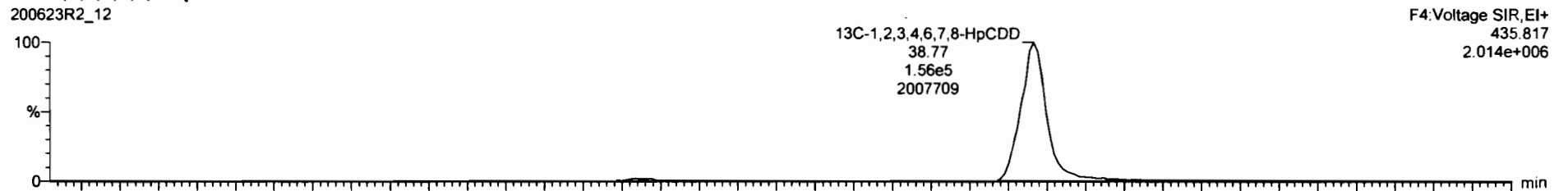


200623R2_12

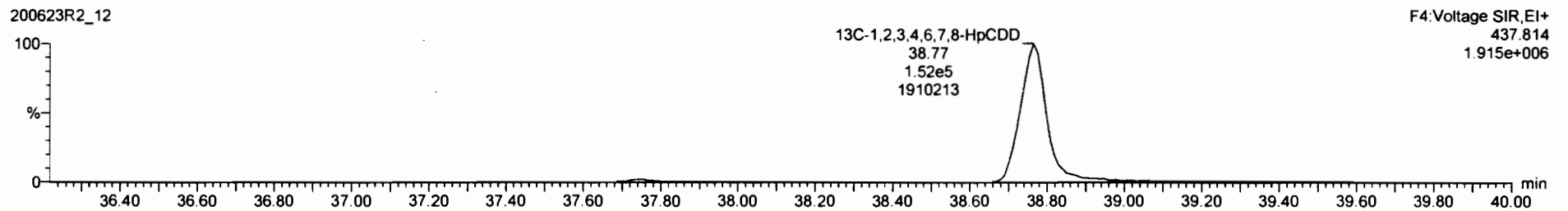


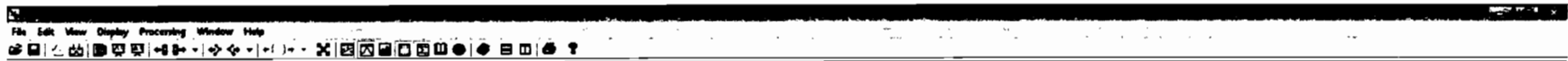
13C-1,2,3,4,6,7,8-HpCDD

200623R2_12



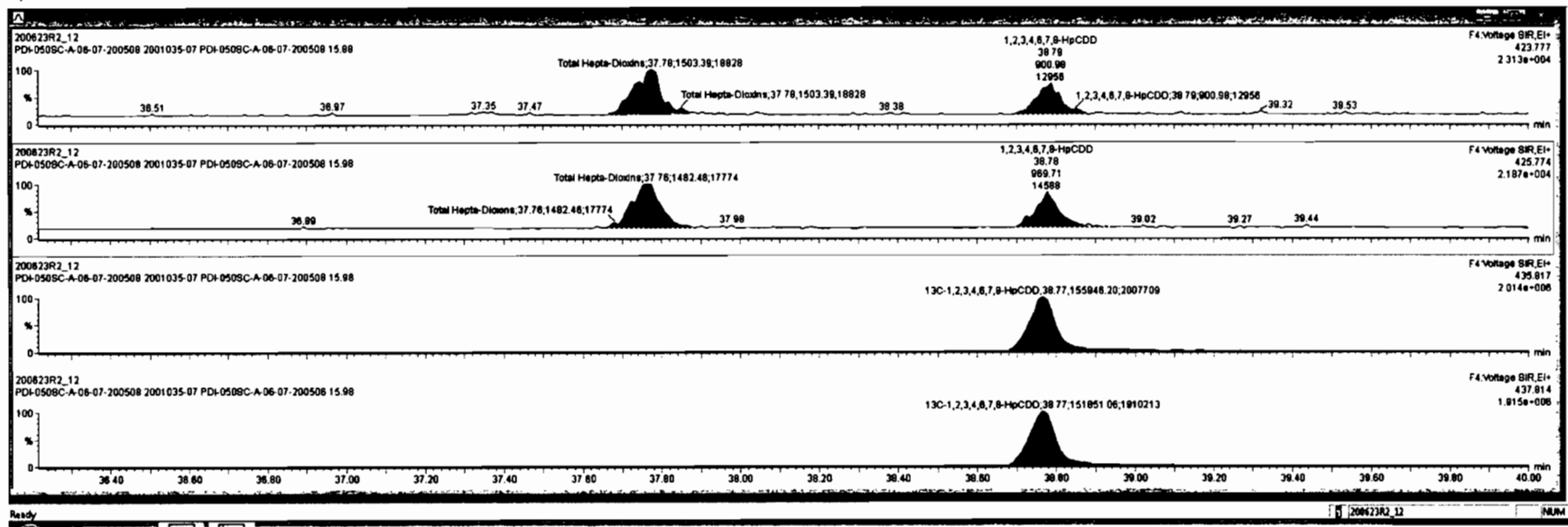
200623R2_12





RT	Name	Area	Height	W	Area%	Height%	W%	Area%	Height%	W%	Area%	Height%	W%	Area%	Height%	W%	Area%	Height%	W%
21	13C-1,2,3,8,7,8-HpCDD	5.16e5	1.25	NO	1.0187	10.034	34.94	34.80	1.017	100	80.4	0.384							
22	13C-1,2,3,7,8,8-HpCDD	4.90e5	1.25	NO	0.8027	10.034	35.21	35.21	1.025	100	90.0	0.430							
23	13C-1,2,3,4,8,7,8-HpCDD	3.08e5	1.03	NO	0.8662	10.034	38.74	38.77	1.129	100	80.2	0.522							
24	13C-OCDD	4.27e5	0.84	NO	0.8521	10.034	41.78	41.78	1.218	100	80.2	0.884							
25	13C-2,3,7,8-TCDF	1.15e6	0.79	NO	1.0690	10.034	25.53	25.57	0.991	100	118	0.366							
26	13C-1,2,3,7,8-PeCDF	9.91e5	1.58	NO	0.8380	10.034	30.06	30.15	1.188	100	129	0.455							
27	13C-2,3,4,7,8-PeCDF	9.20e5	1.58	NO	0.8188	10.034	31.01	31.13	1.208	100	124	0.487							
28	13C-1,2,3,4,7,8-HpCDF	5.27e5	0.80	NO	1.0075	10.034	33.86	33.84	0.988	100	86.3	0.804							
29	13C-1,2,3,8,7,8-HpCDF	8.15e5	0.51	NO	1.1870	10.034	34.08	34.07	0.982	100	87.1	0.521							
30	13C-2,3,4,8,7,8-HpCDF	5.53e5	0.48	NO	1.0219	10.034	34.88	34.85	1.009	100	88.8	0.585							

RT	Name	Area	Height	W	Area%	Height%	W%	Area%	Height%	W%	Area%	Height%	W%	Area%	Height%	W%	Area%	Height%	W%
1	Total Hepta-Dioxins	37.78	1.503e3	1.482e3	1.01	NO	2.2382	2.2382											
2	1,2,3,4,8,7,8-HpCDD	38.79	9.010e2	9.867e2	0.83	NO	1.4023	1.4023											

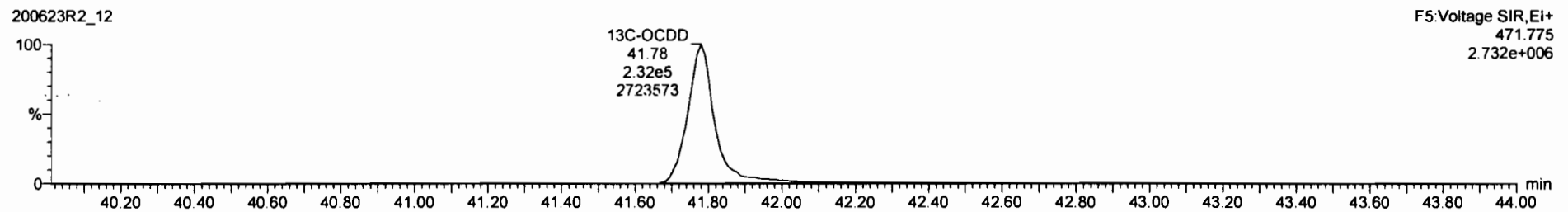
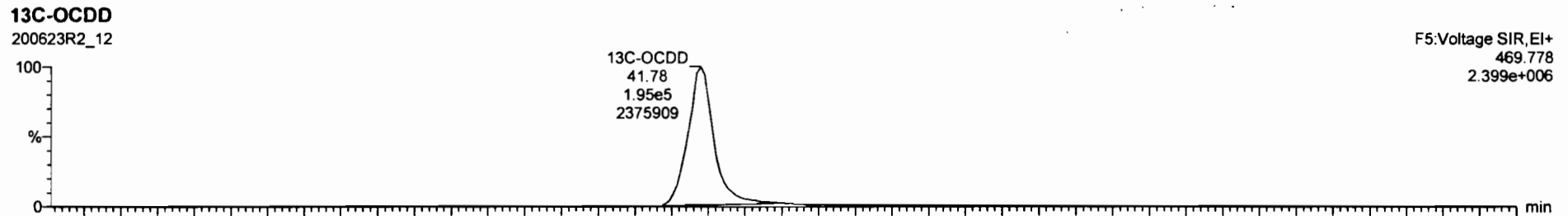
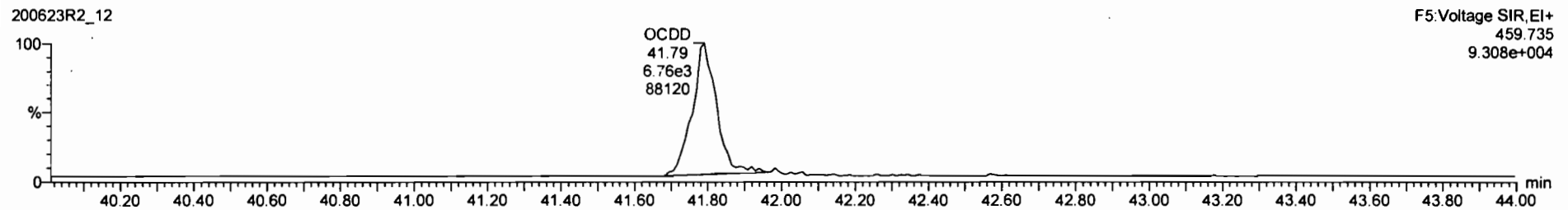
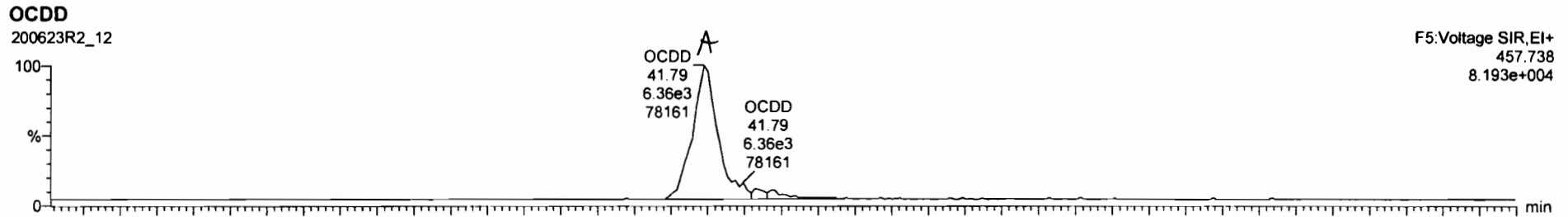


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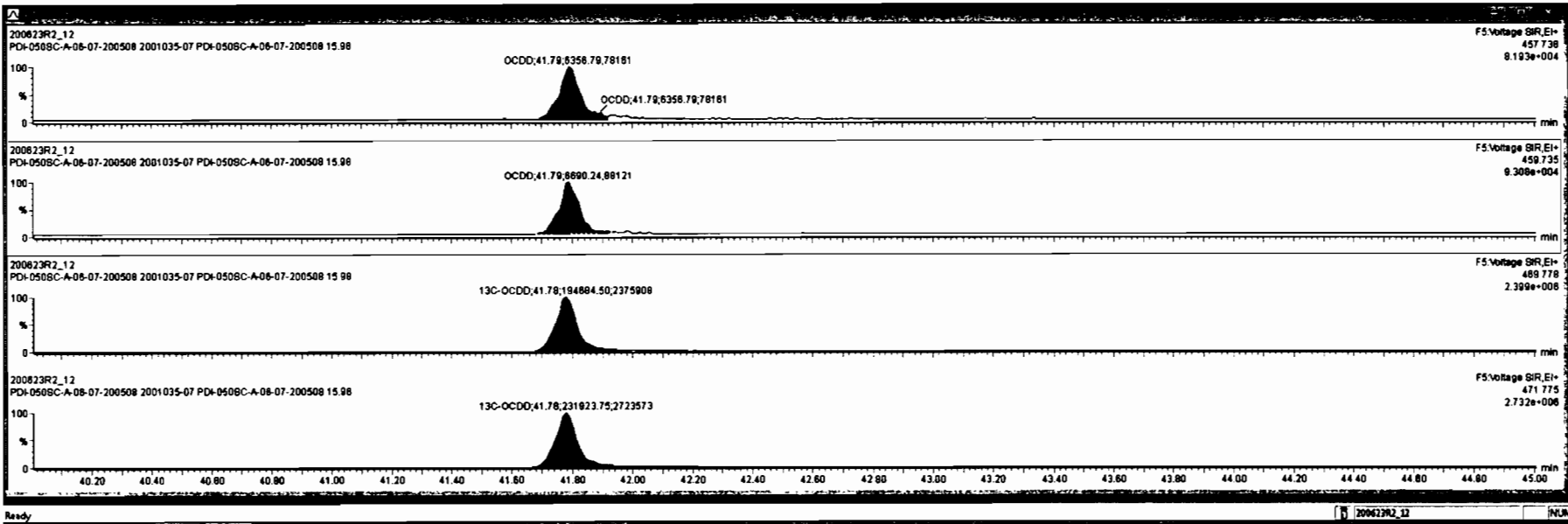
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#	Name	Area	Height	Width	Retention	Peak	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	
7	2,3,7,8-TCDF				NO	0.7510	10.034	25.80														0.0363
8	1,2,3,7,8-PeCDF				NO	0.8625	10.034	30.18														0.0288
10	2,3,4,7,8-PeCDF				NO	0.9348	10.034	31.18														0.0288
11	1,2,3,4,7,8-HxCDF				NO	0.8845	10.034	33.94														0.0472
12	1,2,3,6,7,8-HxCDF				NO	0.8882	10.034	34.08														0.0438
13	2,3,4,6,7,8-HxCDF				NO	0.9341	10.034	34.89														0.0488
14	1,2,3,7,8,9-HxCDF				NO	0.8707	10.034	35.57														0.0718
16	1,2,3,4,6,7,8-HxCDF				NO	0.8734	10.034	37.38														0.138
18	1,2,3,4,7,8,9-HxCDF				NO	1.0128	10.034	38.32														0.182

#	Name	Area	Height	Width	Retention	Peak	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
1															

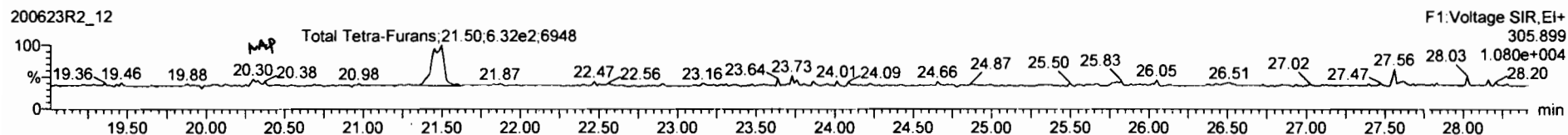
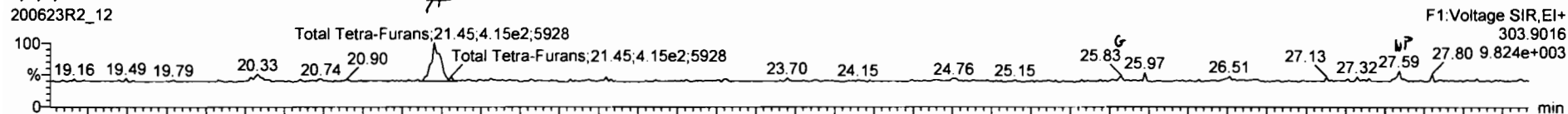


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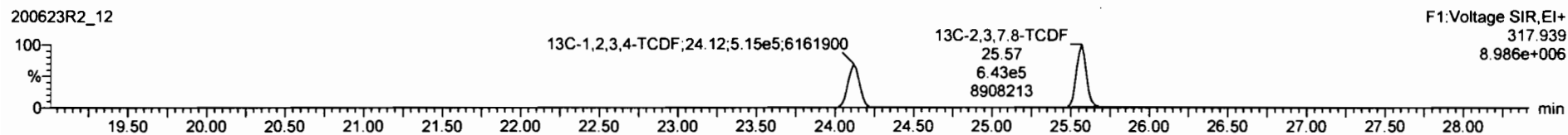
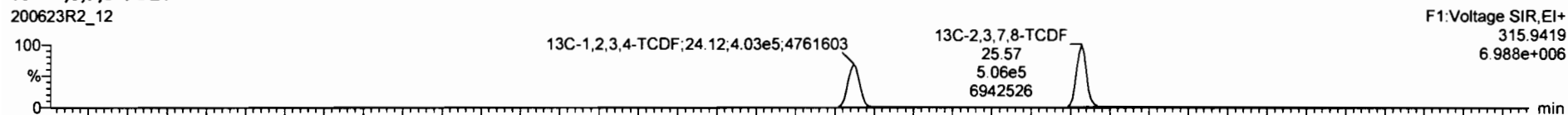
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

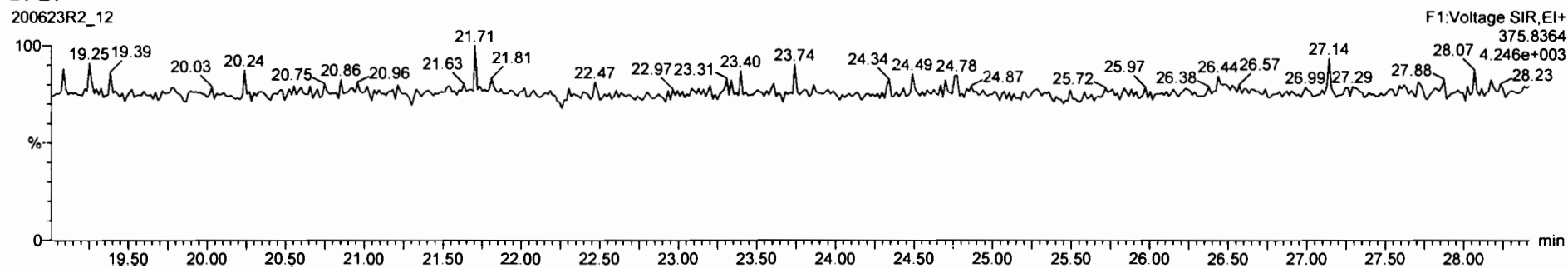
2,3,7,8-TCDF



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



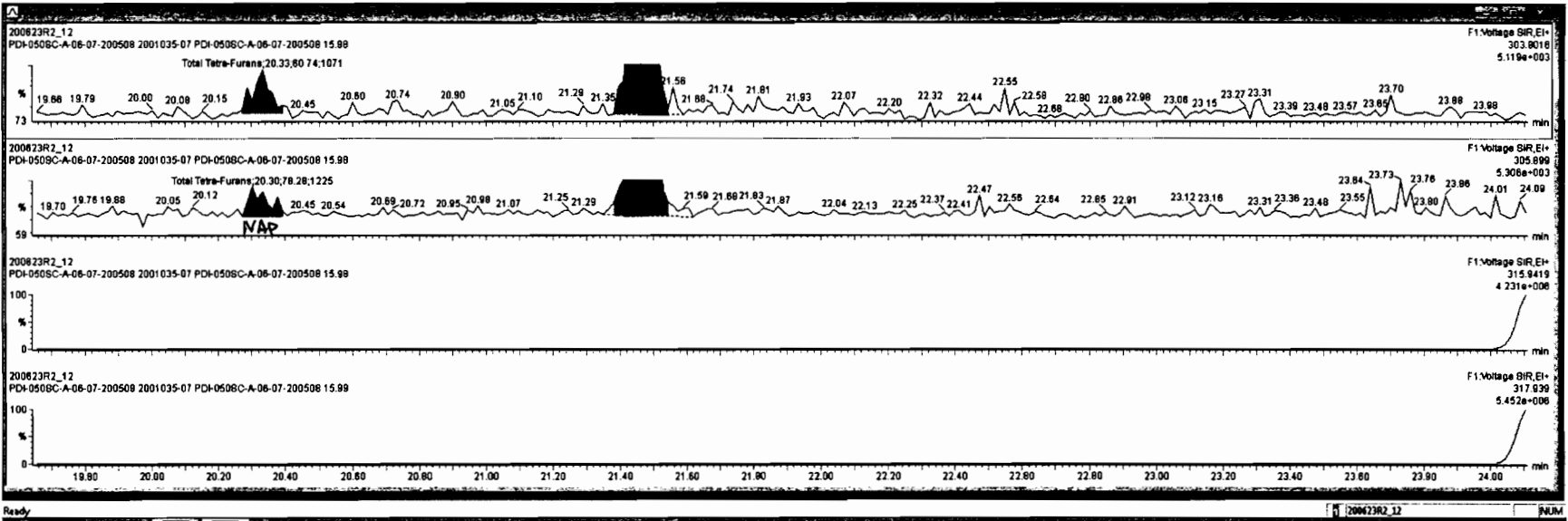
DPE1





RT	Area	Int. Area	Int. Conc.	Int. Ratio	Int. Error	Int. Std. Dev.	Int. Count
43	Total Penta-Furans	0.8925	10.034	27.50			0.00616
44	Total Penta-Furans	0.8925	10.034	26.27			0.0118
45	Total Hexa-Furans	0.8341	10.034	33.56			0.0305
46	Total Hexa-Furans	0.8734	10.034	37.83			0.0721
47	PFM1						
48	PFM2						
49	PFM3						
50	PFM4						
51	PFM5						

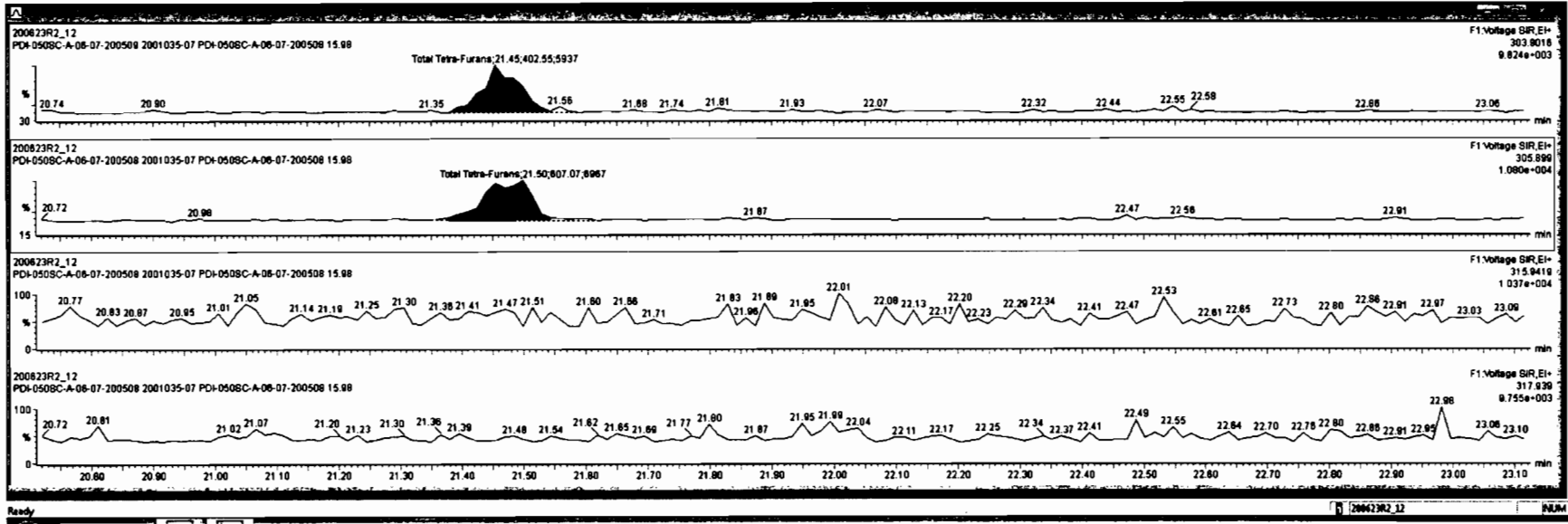
RT	Area	Int. Area	Int. Conc.	Int. Ratio	Int. Error	Int. Std. Dev.	Int. Count
1	Total Tetra-Furans	20.33	6.074e1	7.829e1	0.78	NO	0.032127
2	Total Tetra-Furans	21.45	3.905e2	5.989e2	0.85	YES	0.20744





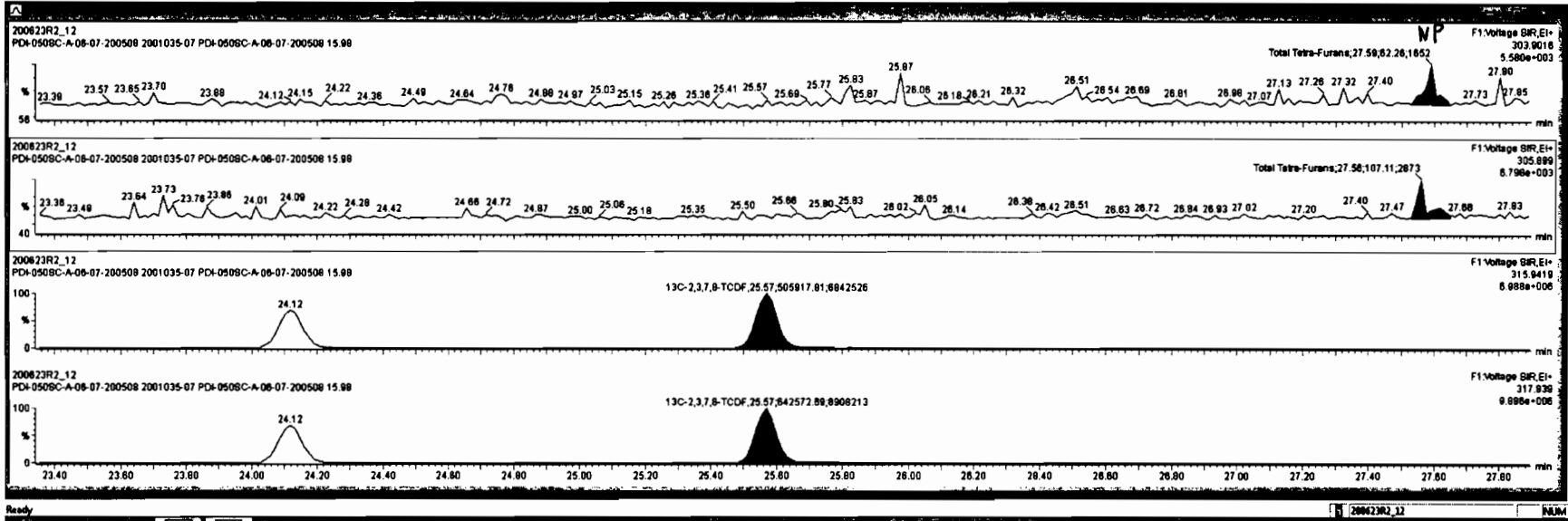
Peak	Name	RT	Area	Height	Width	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height
46	1st Furo. Penta-Furans																	
46	Total Penta-Furans																	
46	Total Hexa-Furans																	
47	Total Hepta-Furans																	
48	PFK1																	
49	PFK2																	
50	PFK3																	
51	PFK4																	
52	PFK5																	

Peak	Name	RT	Area	Height	Width	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height
1	Total Tetra-Furans	21.45	4.025e2	6.071e2	0.88	NO	0.23332	0.23332										
2	Total Tetra-Furans	27.50	8.228e1	1.071e2	0.58	YES	0.033075	0.00000										



Area	1st Func.	Peak	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	
44	1st Func.	Penta-Furans				0.0025	10.034	27.50							0.00010						
45	Total	Penta-Furans				0.0025	10.034	27.50							0.0110						
46	Total	Hexa-Furans				0.0341	10.034	33.56							0.0306						
47	Total	Hepta-Furans				0.0734	10.034	37.83							0.0721						
48	PPH1																				
49	PPH2																				
50	PPH3																				
51	PPH4																				
52	PPH5																				

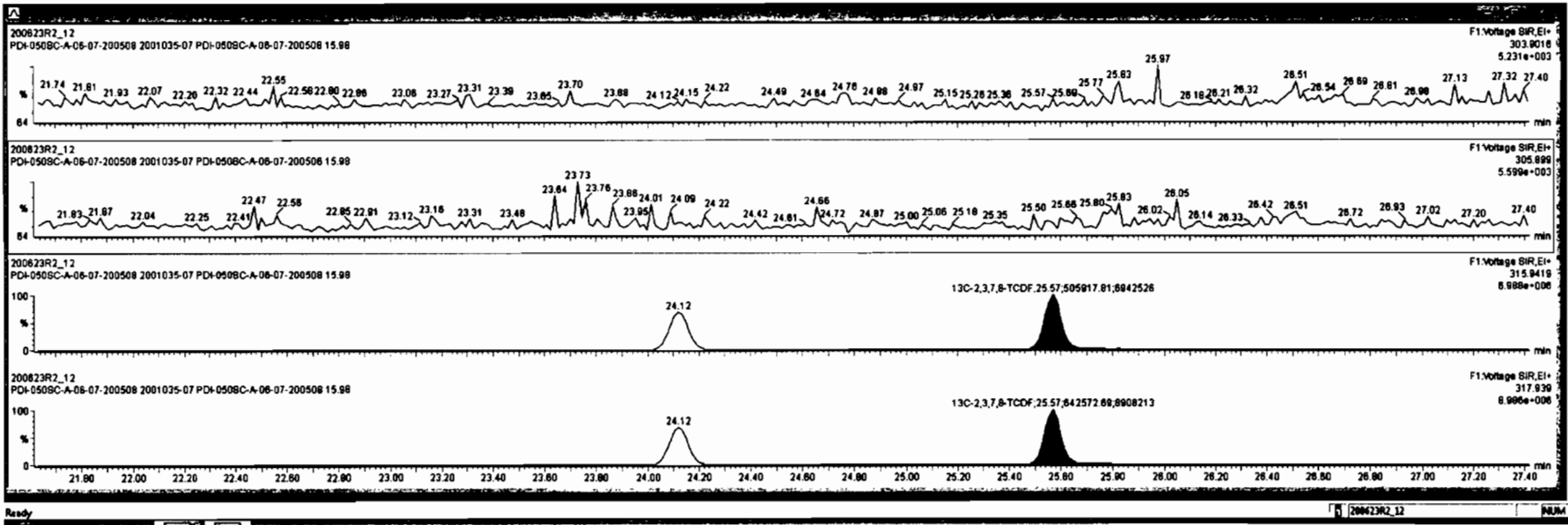
Name	RT	Int Resp	Ext Resp	Area	Height	Area%	Height%	Area	Height	Area%	Height%
1	Total Tetra-Furans	21.45	4.025e2	6.071e2	0.86	NO	0.23332	0.23332			
2	Total Tetra-Furans	27.50	6.220e1	1.071e2	0.50	YES	0.039075	0.00000			





RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
21.45	4.025e2	6.071e2	0.88	NO	0.23332	0.23332			
27.50	8.228e1	1.071e2	0.58	YES	0.033075	0.00000			

RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
21.45	4.025e2	6.071e2	0.88	NO	0.23332	0.23332			
27.50	8.228e1	1.071e2	0.58	YES	0.033075	0.00000			



Dataset: Untitled

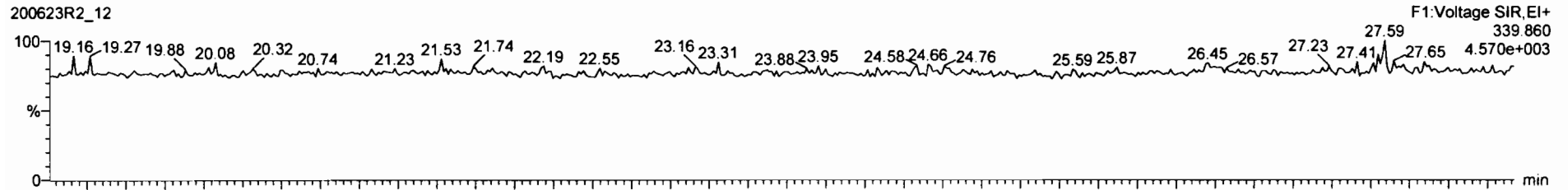
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

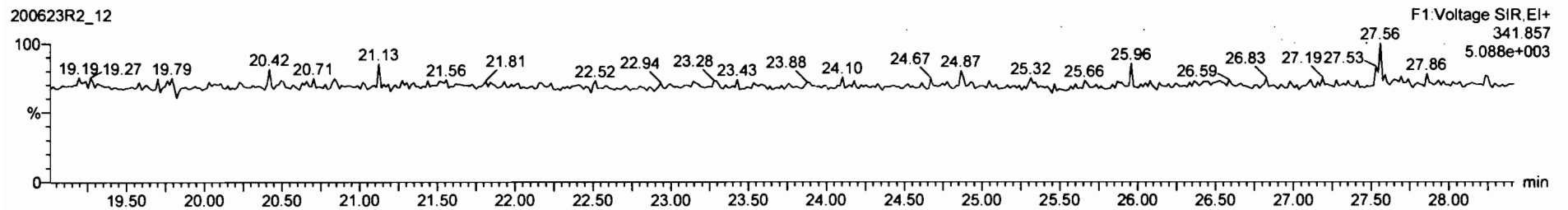
Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

1st Func. Penta-Furans

200623R2_12

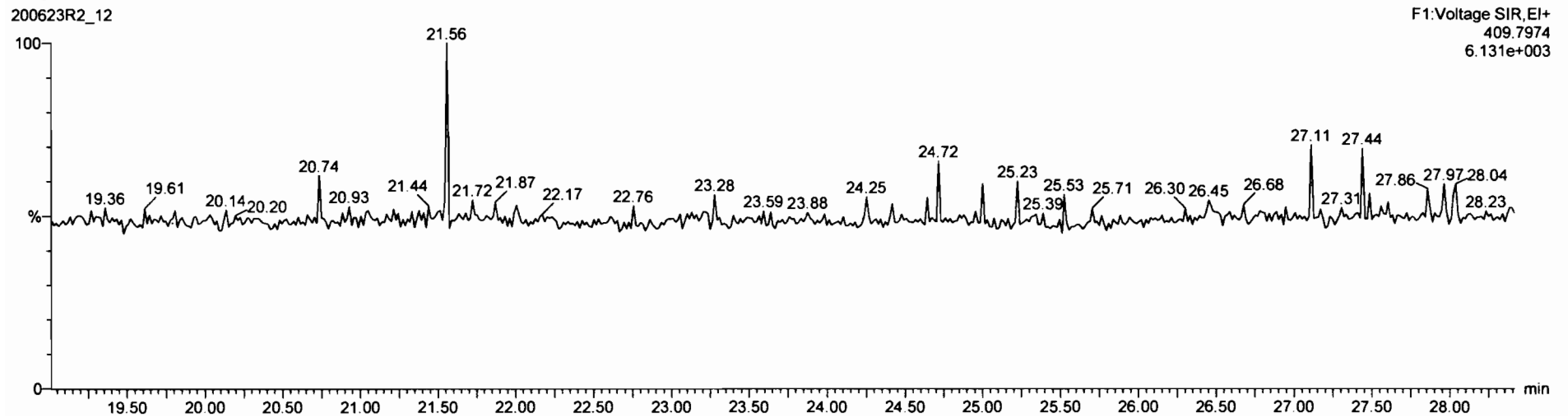


200623R2_12



DPE6

200623R2_12

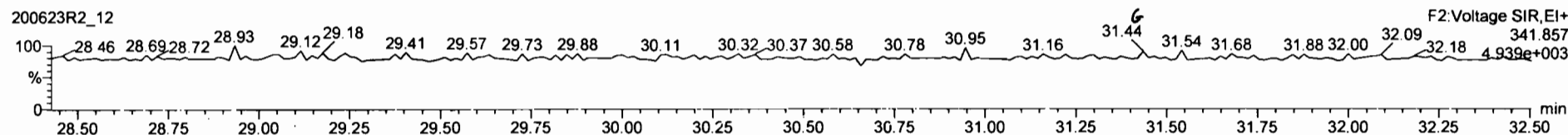
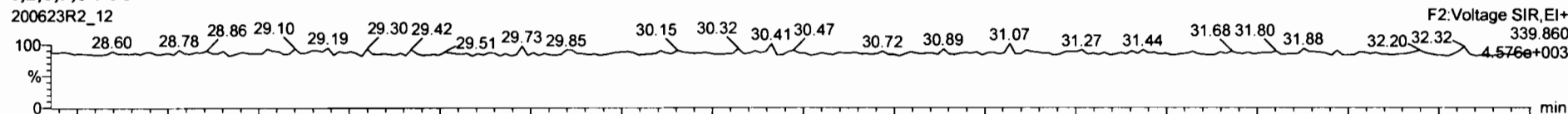


Dataset: Untitled

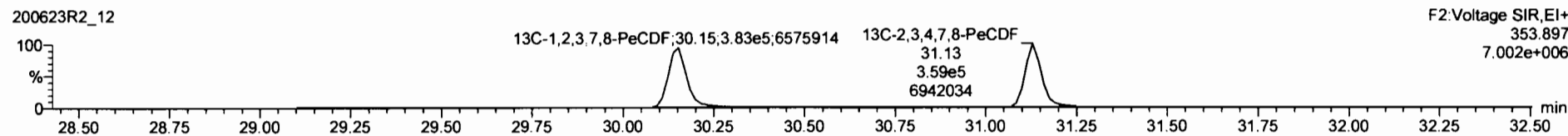
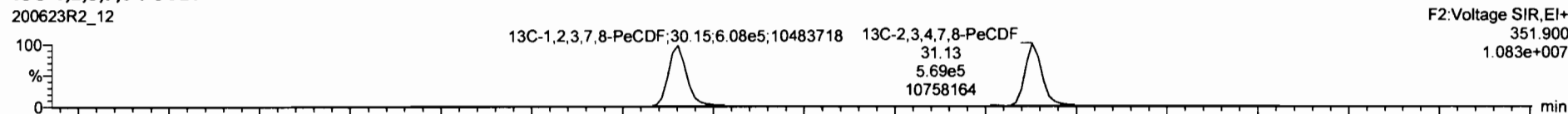
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

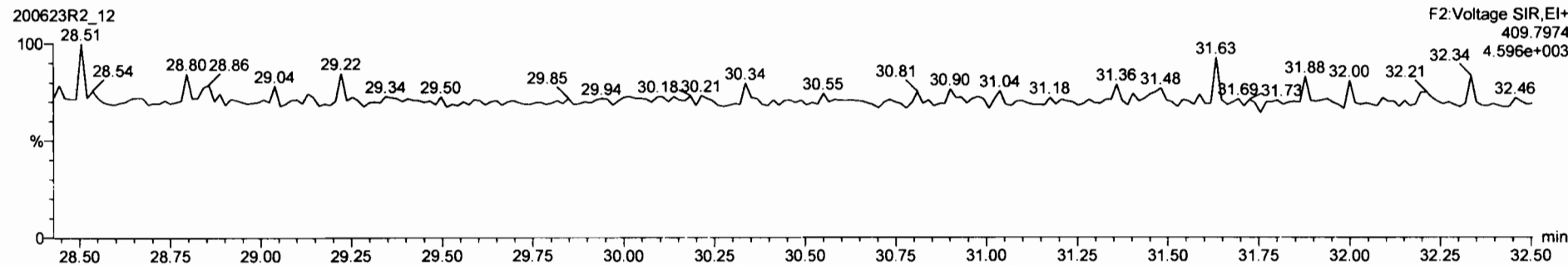
1,2,3,7,8-PeCDF



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

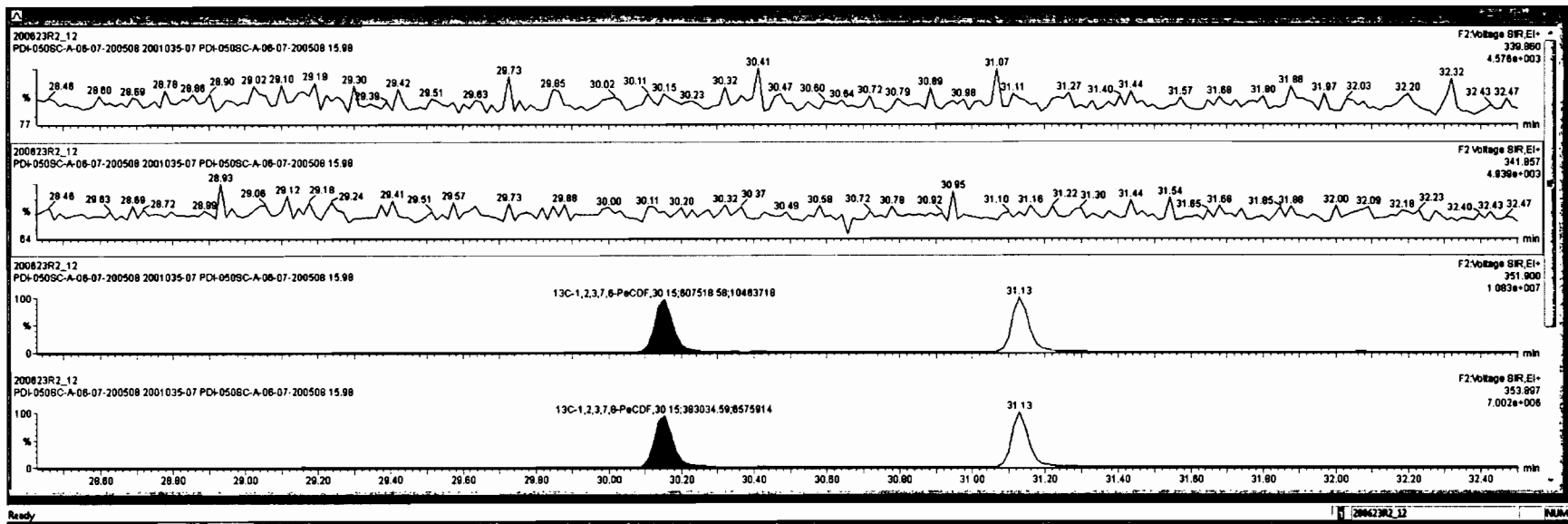


DPE2



Name	Resp	RA	dy	FWHM	Height	Area	Int	FWHM	Cond	Area	SL	EMPC
45	Total Tetra-Furans			0.7510	10.034	23.81			0.233		0.0353	0.233
46	Total Penta-Furans			0.8825	10.034	27.39					0.00916	
47	Total Hexa-Furans			0.9341	10.034	33.56					0.0305	
48	Total Hepta-Furans			0.8734	10.034	37.83					0.0721	
49	PFK1											
50	PFK2											
51	PFK3											
52	PFK4											
53	PFK5											

Name	RT	Int Resp	Ext Resp	RA	dy	EMPC	Cont
1							



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

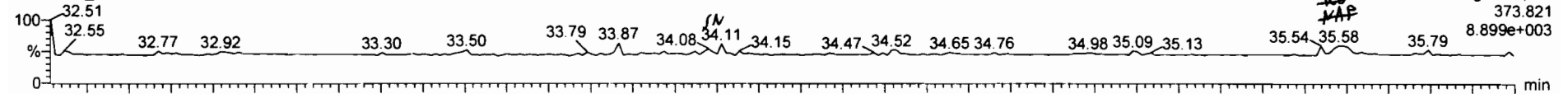
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

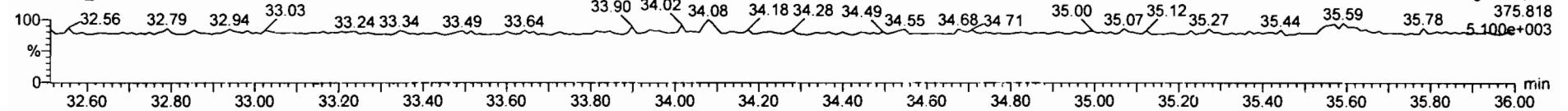
LIN 07/17/2020
LIN 06/24/2020
06/26/2020

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

200623R2_12

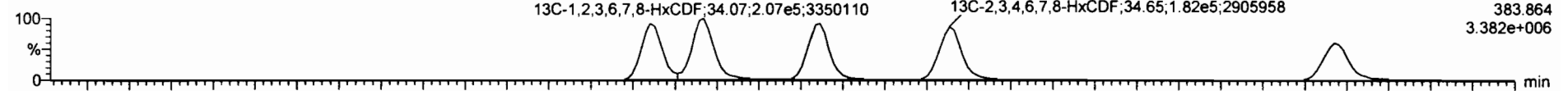


200623R2_12

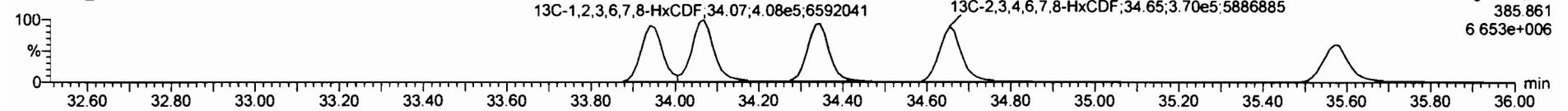


13C-1,2,3,4,7,8-HxCDF

200623R2_12

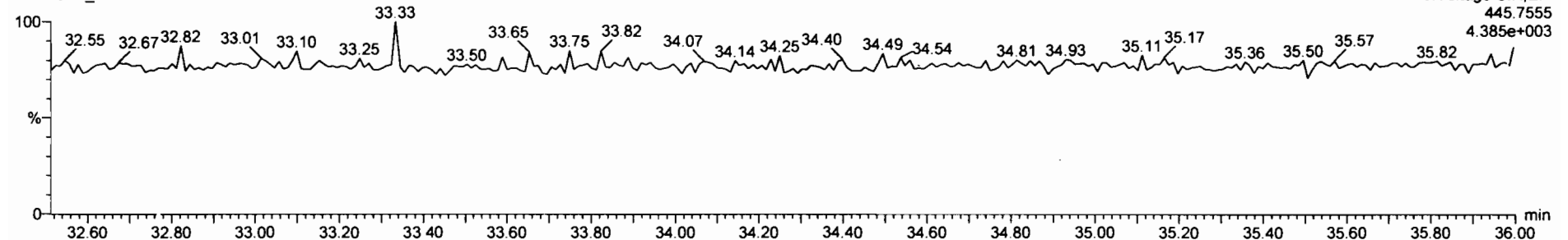


200623R2_12



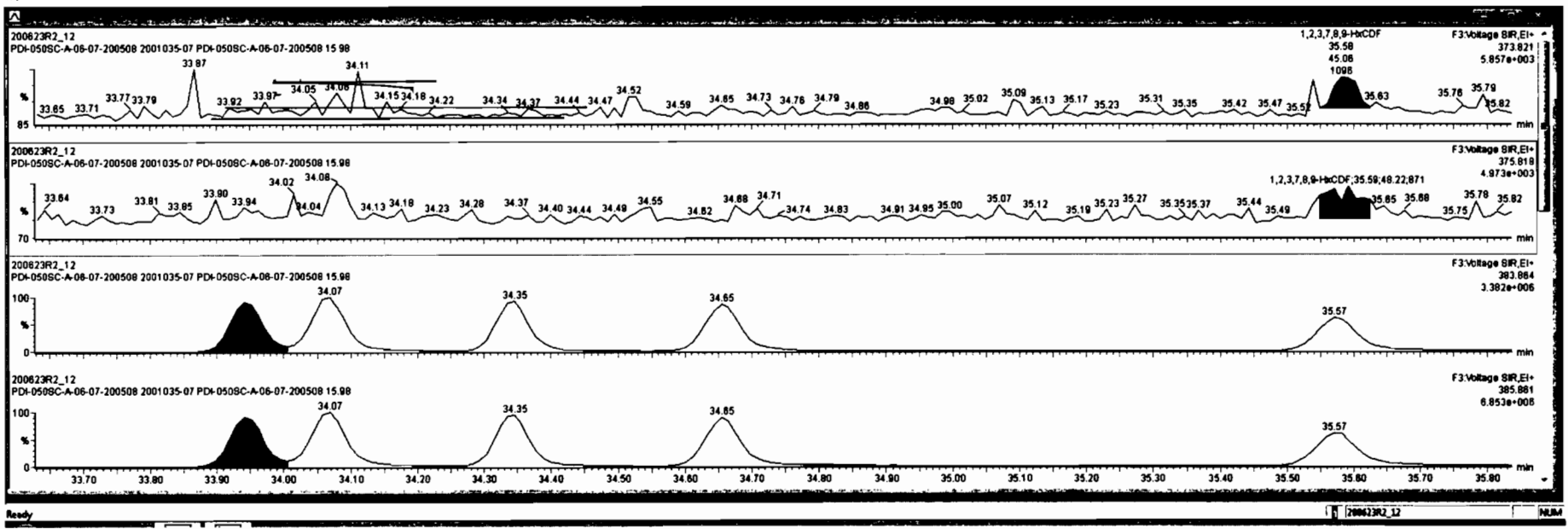
DPE3

200623R2_12



#	Name	Comp	Area	Height	Wt%	RetTime	Width	Area%	Height%	Area%	Height%
43	Total Tetra-Furans		0.7510	10.034	23.81			0.0353	0.233		
44	1st Func. Penta-Furans		0.8925	10.034	27.58			0.00818			
45	Total Penta-Furans		0.8925	10.034	29.27			0.0118			
46	Total Hexa-Furans										
47	Total Hepta-Furans		0.8734	10.034	37.83					0.0721	
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										

#	Name	RT	Int Resp	Ext Resp	Area	Height	Area%	Height%
1	1,2,3,7,8,9-HxCDF	35.58	4.506e1	4.822e1	0.93	YES	0.040968	0.00000



Dataset: Untitled

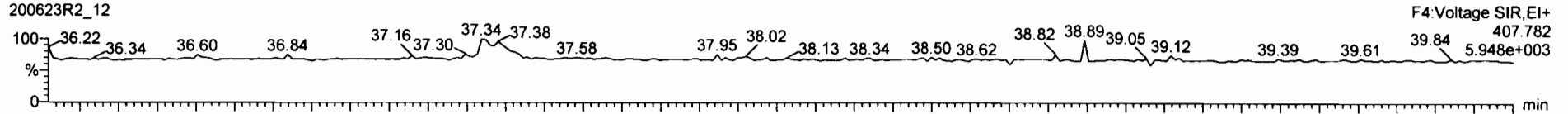
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

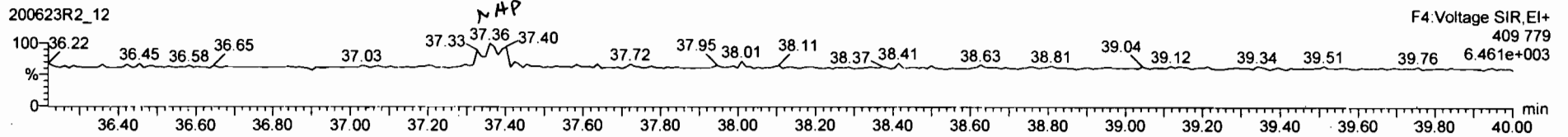
Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

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

200623R2_12



200623R2_12

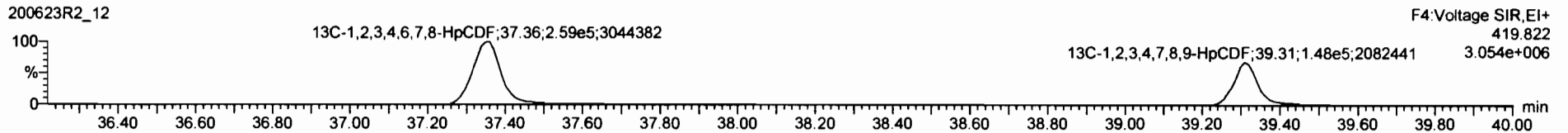


13C-1,2,3,4,6,7,8-HpCDF

200623R2_12

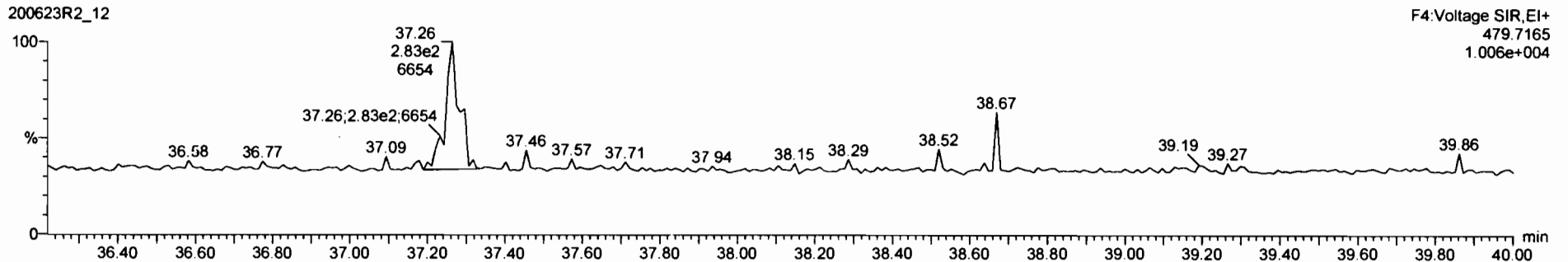


200623R2_12



DPE4

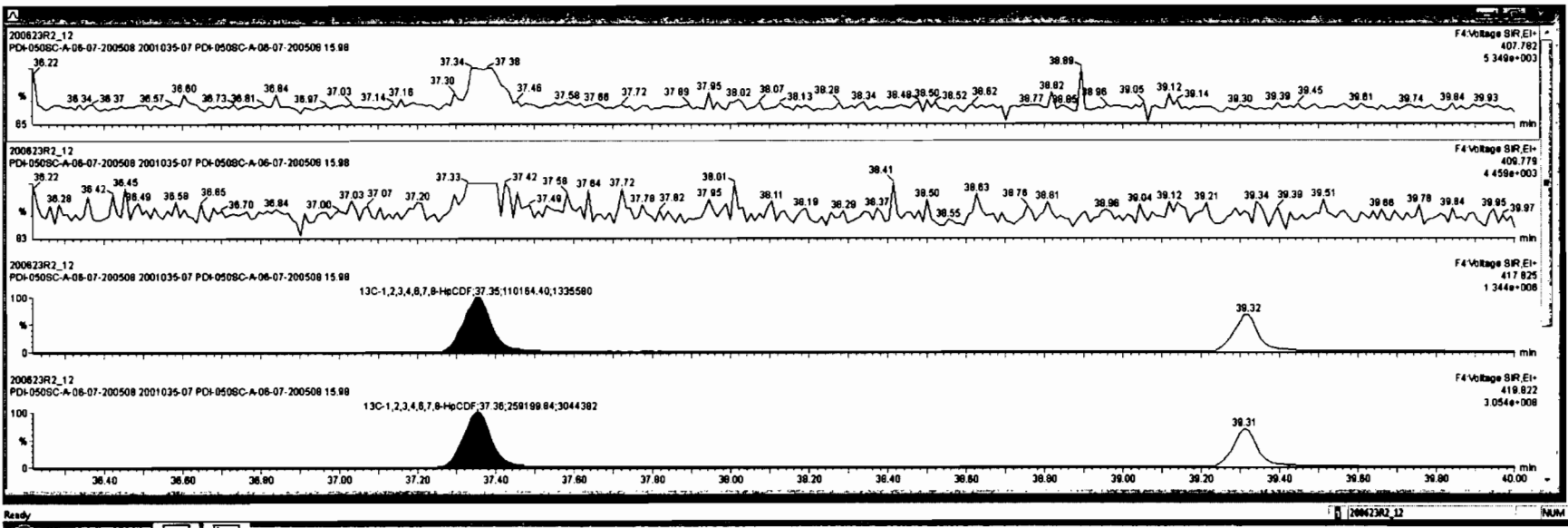
200623R2_12





Item	Name	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
43	Total Toluene-Furane					0.7510	10.034	23.81			
44	Total Furane-Penta-Furane					0.8625	10.034	27.58			
45	Total Penta-Furane					0.8625	10.034	29.27			
46	Total Hexa-Furane					0.9341	10.034	33.56			
47											
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										

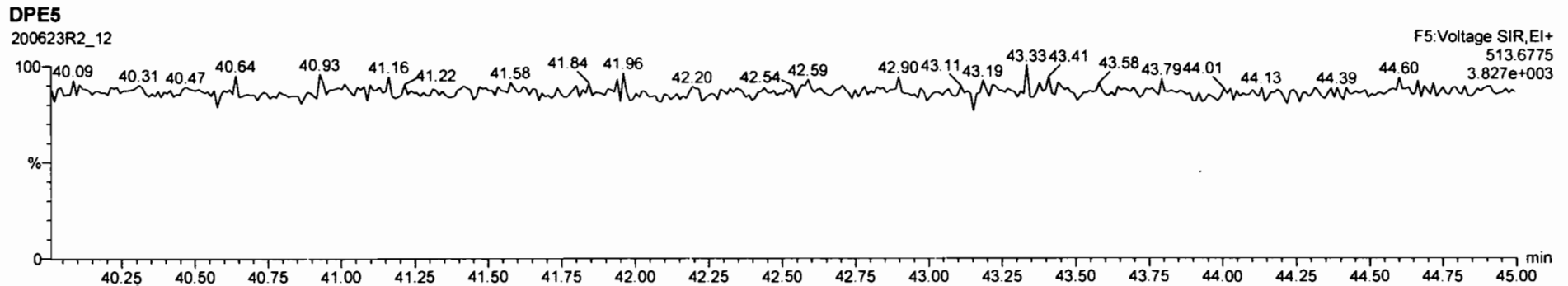
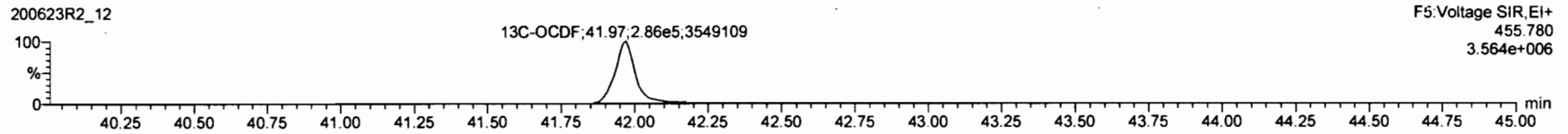
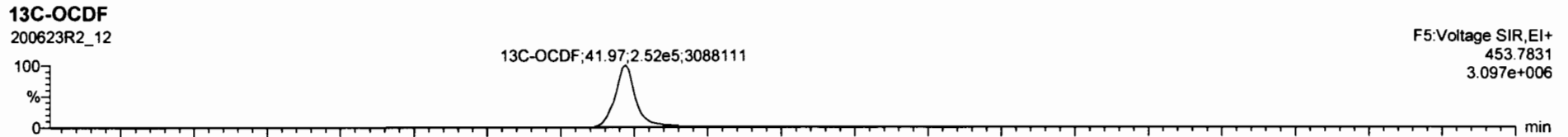
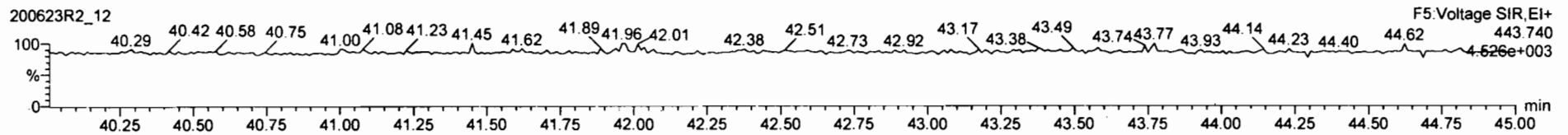
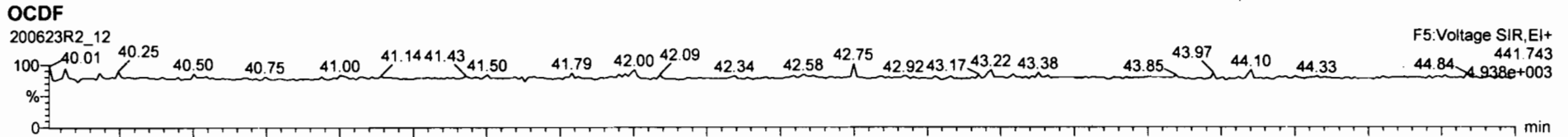
Item	Name	RT	Area	Height	Width	Area%	Height%	Width%
1								



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

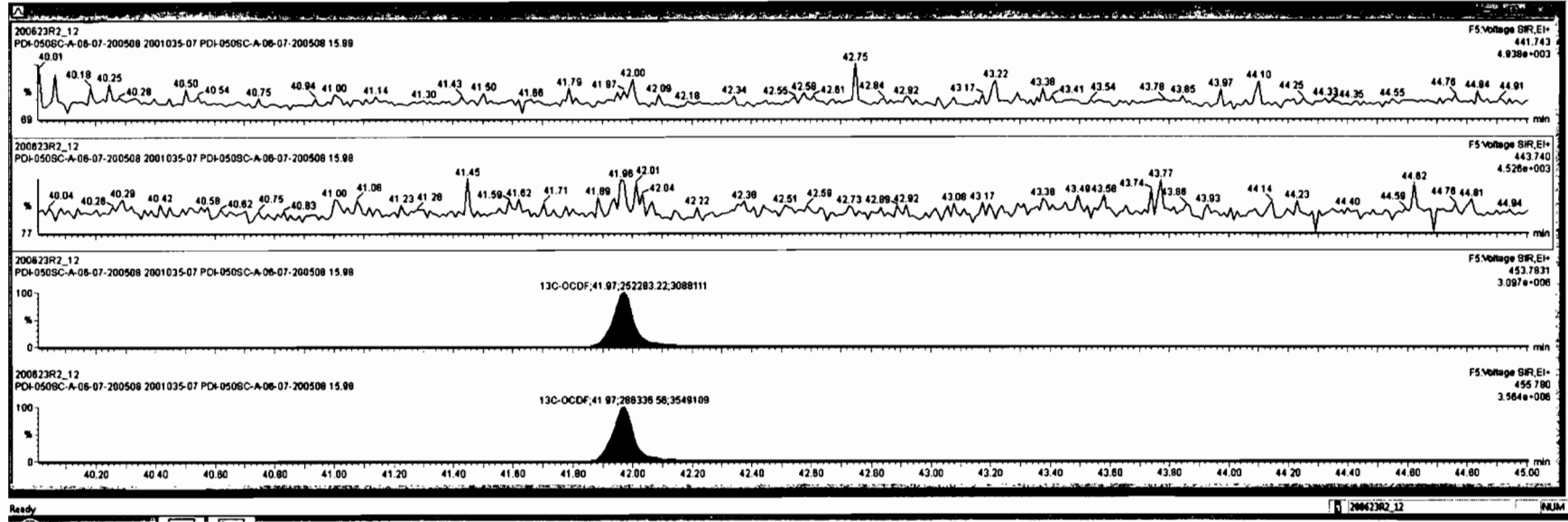
Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508





RT	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%		
17	13C-2,3,7,β-TCDD	9.89e5	0.79	NO	1.1983	10.034	28.49	28.45	1.025	223	112	0.178
18	13C-1,2,3,7,β-PeCDD	6.47e5	0.83	NO	0.9490	10.034	31.87	31.43	1.218	203	102	0.442
19	13C-1,2,3,4,7,β-HxCDD	3.98e5	1.25	NO	0.7790	10.034	34.83	34.83	1.014	188	94.1	0.501
21	13C-1,2,3,6,7,β-HxCDD	5.18e5	1.25	NO	1.0187	10.034	34.94	34.83	1.017	188	93.4	0.384
22	13C-1,2,3,7,β-HxCDD	4.58e5	1.25	NO	0.9027	10.034	35.21	35.21	1.025	185	93.0	0.432
23	13C-1,2,3,4,6,7,β-HxCDD	3.08e5	1.03	NO	0.8982	10.034	36.74	36.77	1.129	164	82.2	0.522
24	13C-OCDD	4.27e5	0.84	NO	0.8521	10.034	41.76	41.78	1.216	240	80.2	0.684
25	13C-2,3,7,β-TCDF	1.15e6	0.79	NO	1.0580	10.034	25.53	25.57	0.981	236	118	0.355
26	13C-1,2,3,7,β-PeCDF	9.91e5	1.58	NO	0.8380	10.034	30.06	30.15	1.188	267	128	0.456

Name	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
1										

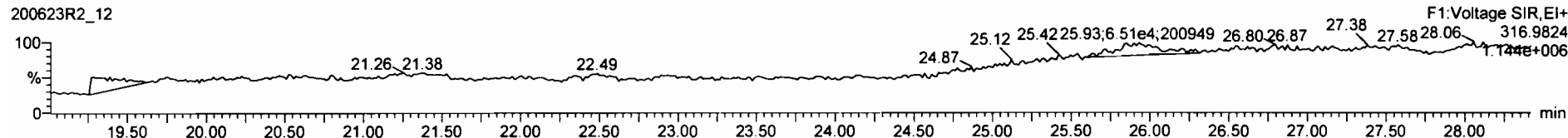


Dataset: Untitled

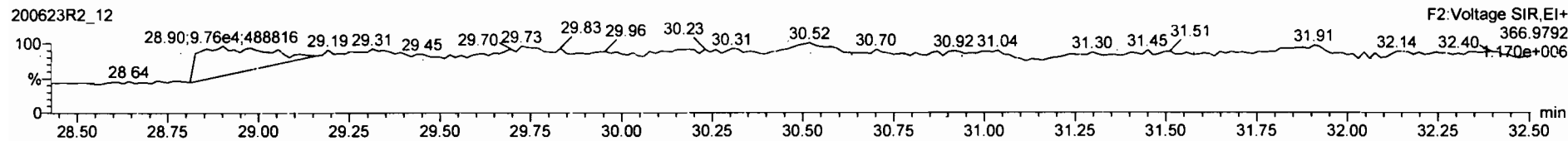
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_12, Date: 23-Jun-2020, Time: 23:33:39, ID: 2001035-07 PDI-050SC-A-06-07-200508 15.98, Description: PDI-050SC-A-06-07-200508

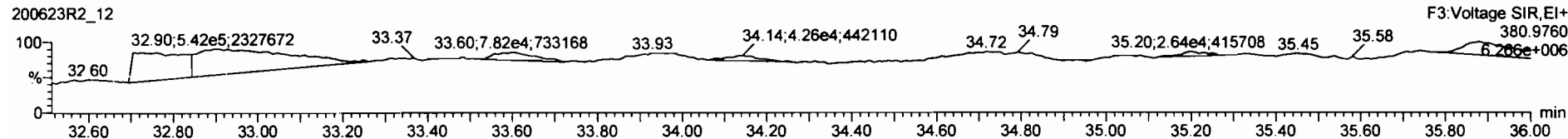
PFK1



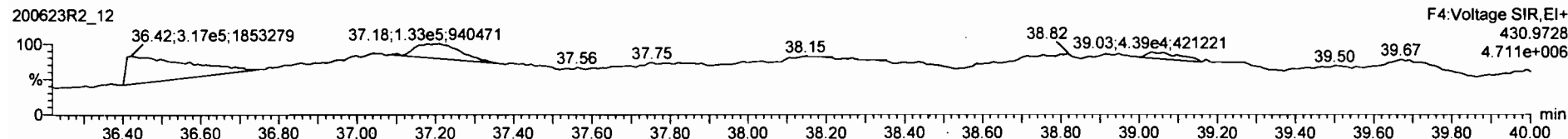
PFK2



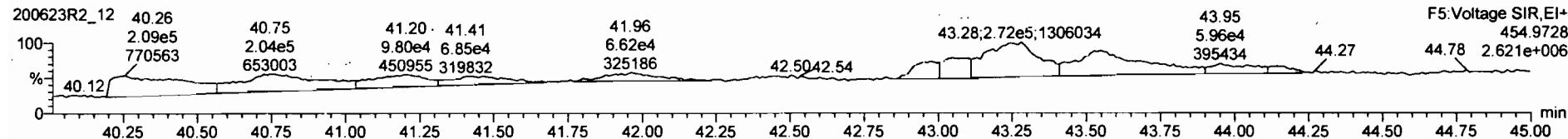
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-13B.qld

Last Altered: Wednesday, July 01, 2020 9:25:24 AM Pacific Daylight Time
Printed: Wednesday, July 01, 2020 9:26:13 AM Pacific Daylight Time

HN 07/01/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

C107/17/2020

Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conv	%Rec	CA	EMPC
1	2,3,7,8-TCDD	7.25e2	0.55	YES	0.888	10.016	26.501	26.50	1.001	1.001	0.49802		0.191	0.382
2	1,2,3,7,8-PeCDD	5.59e2	0.52	YES	0.908	10.016	31.457	31.45	1.001	1.000	0.52596		0.421	0.465
3	1,2,3,4,7,8-HxCDD	6.60e2	1.13	NO	1.03	10.016	34.835	34.84	1.000	1.000	1.0340		0.756	1.03
4	1,2,3,6,7,8-HxCDD	5.51e3	1.19	NO	0.892	10.016	34.932	34.94	1.000	1.000	7.9698		0.765	7.97
5	1,2,3,7,8,9-HxCDD	1.61e3	1.20	NO	0.887	10.016	35.230	35.24	1.000	1.001	2.9985		1.01	3.00
6	1,2,3,4,6,7,8-HpCDD	2.20e5	1.01	NO	0.864	10.016	38.789	38.79	1.000	1.000	624.94		2.62	625
7	OCDD	1.12e6	0.88	NO	0.914	10.016	41.791	41.80	1.000	1.000	4426.6		3.50	4430
8	2,3,7,8-TCDF	1.50e4	0.76	NO	0.751	10.016	25.596	25.60	1.001	1.001	10.050	(7.62)	0.285	10.0
9	1,2,3,7,8-PeCDF	1.59e4	1.60	NO	0.893	10.016	30.175	30.17	1.001	1.000	9.7811		0.243	9.78
10	2,3,4,7,8-PeCDF	6.69e3	1.59	NO	0.935	10.016	31.161	31.16	1.001	1.001	4.3620		0.260	4.36
11	1,2,3,4,7,8-HxCDF	6.22e3	1.16	NO	0.884	10.016	33.952	33.97	1.000	1.001	8.8546		0.370	8.85
12	1,2,3,6,7,8-HxCDF	1.97e3	1.27	NO	0.889	10.016	34.079	34.07	1.000	1.000	2.4663		0.341	2.47
13	2,3,4,6,7,8-HxCDF	9.40e2	1.36	NO	0.934	10.016	34.690	34.67	1.001	1.000	1.4873		0.443	1.49
14	1,2,3,7,8,9-HxCDF	2.30e2	1.89	YES	0.871	10.016	35.571	35.61	1.000	1.001	0.48110		0.051	0.373
15	1,2,3,4,6,7,8-HpCDF	1.01e4	0.97	NO	0.873	10.016	37.386	37.37	1.001	1.001	25.365		0.774	25.4
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.016	39.320		1.000				1.02	
17	OCDF	2.58e4	0.84	NO	0.806	10.016	41.982	41.98	1.000	1.000	124.37		1.13	124
18	13C-2,3,7,8-TCDD	3.48e5	0.78	NO	1.16	10.016	26.491	26.47	1.026	1.026	111.97	56.1	0.223	
19	13C-1,2,3,7,8-PeCDD	2.34e5	0.60	NO	0.849	10.016	31.674	31.43	1.227	1.218	102.29	51.2	0.317	
20	13C-1,2,3,4,7,8-HxCDD	1.23e5	1.30	NO	0.779	10.016	34.830	34.83	1.014	1.014	64.951	32.5	0.388	
21	13C-1,2,3,6,7,8-HxCDD	1.55e5	1.18	NO	1.02	10.016	34.944	34.93	1.017	1.017	62.383	31.2	0.297	
22	13C-1,2,3,7,8,9-HxCDD	1.21e5	1.15	NO	0.903	10.016	35.215	35.22	1.025	1.025	55.026	27.6	0.335	
23	13C-1,2,3,4,6,7,8-HpCDD	8.12e4	1.00	NO	0.689	10.016	38.739	38.78	1.128	1.129	48.296	24.2	0.242	
24	13C-OCDD	1.11e5	0.91	NO	0.652	10.016	41.761	41.79	1.216	1.217	69.603	17.4	0.403	
25	13C-2,3,7,8-TCDF	3.96e5	0.78	NO	1.06	10.016	25.534	25.57	0.989	0.991	92.477	46.3	0.388	
26	13C-1,2,3,7,8-PeCDF	3.63e5	1.61	NO	0.838	10.016	30.058	30.15	1.165	1.168	107.26	53.7	0.487	
27	13C-2,3,4,7,8-PeCDF	3.28e5	1.64	NO	0.817	10.016	31.011	31.13	1.202	1.206	99.225	49.7	0.500	
28	13C-1,2,3,4,7,8-HxCDF	1.59e5	0.50	NO	1.01	10.016	33.961	33.95	0.989	0.989	64.497	32.3	0.510	
29	13C-1,2,3,6,7,8-HxCDF	1.80e5	0.51	NO	1.17	10.016	34.085	34.07	0.992	0.992	63.162	31.6	0.440	
30	13C-2,3,4,6,7,8-HxCDF	1.35e5	0.49	NO	1.02	10.016	34.659	34.65	1.009	1.009	54.213	27.2	0.503	
31	13C-1,2,3,7,8,9-HxCDF	1.09e5	0.48	NO	0.860	10.016	35.558	35.57	1.035	1.036	52.198	26.1	0.598	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-13B.qld

Last Altered: Wednesday, July 01, 2020 9:25:24 AM Pacific Daylight Time

Printed: Wednesday, July 01, 2020 9:26:13 AM Pacific Daylight Time

Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

#	Name	Resp	RA	n/y	RRF	w/w0	Pred RT	RRRT	RRFC	RRF%	RRFC%	RRF%	RRFC%	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	9.11e4	0.42	NO	0.774	10.016	37.307	37.35	1.086	1.087	48.228	24.2	0.293	
33	13C-1,2,3,4,7,8,9-HpCDF	4.81e4	0.40	NO	0.521	10.016	39.336	39.32	1.145	1.145	37.814	18.9	0.435	
34	13C-OCDF	1.03e5	0.88	NO	0.746	10.016	41.933	41.98	1.221	1.222	56.467	14.1	0.239	
35	37Cl-2,3,7,8-TCDD	1.36e5			1.04	10.016	26.522	26.48	1.028	1.026	48.757	61.0	0.0681	
36	13C-1,2,3,4-TCDD	5.37e5	0.78	NO	1.00	10.016	25.890	25.81	1.000	1.000	199.68	100	0.258	
37	13C-1,2,3,4-TCDF	8.08e5	0.78	NO	1.00	10.016	24.360	24.12	1.000	1.000	199.68	100	0.411	
38	13C-1,2,3,4,6,9-HxCDF	4.87e5	0.52	NO	1.00	10.016	34.420	34.35	1.000	1.000	199.68	100	0.514	
39	Total Tetra-Dioxins				0.888	10.016	24.620		0.000		1.9988		0.191	4.48
40	Total Penta-Dioxins				0.908	10.016	29.960		0.000		6.8898		0.421	8.86
41	Total Hexa-Dioxins				0.892	10.016	33.635		0.000		135.63		0.872	136
42	Total Hepta-Dioxins				0.864	10.016	37.640		0.000		1573.6		2.62	1570
43	Total Tetra-Furans				0.751	10.016	23.610		0.000		36.228		0.285	41.1
44	1st Func. Penta-Furans				0.893	10.016	27.580		0.000		11.728		0.0735	11.7
45	Total Penta-Furans				0.893	10.016	29.275		0.000		32.578		0.257	33.2
46	Total Hexa-Furans				0.934	10.016	33.555		0.000		44.868		0.412	45.7
47	Total Hepta-Furans				0.873	10.016	37.835		0.000		133.73		0.914	134

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-13B.qld

Last Altered: Wednesday, July 01, 2020 9:25:24 AM Pacific Daylight Time
 Printed: Wednesday, July 01, 2020 9:26:13 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
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Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rvy	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.46	1.048e4	1.430e4	8.421e2	1.289e3	0.65	YES	0.000e0	0.00000	1.2499	0.191
Total Tetra-Dioxins	22.91	4.137e3	3.719e3	2.525e2	3.259e2	0.77	NO	5.785e2	0.37349	0.37349	0.191
Total Tetra-Dioxins	23.43	2.060e3	2.416e3	1.581e2	2.114e2	0.75	NO	3.695e2	0.23858	0.23858	0.191
Total Tetra-Dioxins	24.31	2.655e3	2.576e3	1.273e2	1.600e2	0.80	NO	2.873e2	0.18547	0.18547	0.191
Total Tetra-Dioxins	24.55	4.258e3	4.881e3	2.013e2	2.905e2	0.69	NO	4.918e2	0.31756	0.31756	0.191
Total Tetra-Dioxins	24.76	4.221e3	5.075e3	2.748e2	3.502e2	0.78	NO	6.250e2	0.40357	0.40357	0.191
Total Tetra-Dioxins	25.42	2.539e3	2.446e3	1.539e2	1.969e2	0.78	NO	3.509e2	0.22654	0.22654	0.191
Total Tetra-Dioxins	26.20	6.787e3	9.146e3	6.244e2	6.586e2	0.95	YES	0.000e0	0.00000	0.75270	0.191
2,3,7,8-TCDD	26.50	4.466e3	6.706e3	2.575e2	4.674e2	0.55	YES	7.249e2	0.00000	0.38220	0.191
Total Tetra-Dioxins	26.81	3.070e3	3.090e3	1.824e2	2.103e2	0.87	NO	3.927e2	0.25357	0.25357	0.191
Total Tetra-Dioxins	27.44	1.641e3	1.651e3	8.452e1	8.789e1	0.96	YES	0.000e0	0.00000	0.10044	0.191

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rvy	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.24	1.572e4	2.974e4	1.255e3	1.956e3	0.64	NO	3.211e3	3.0241	3.0241	0.421
Total Penta-Dioxins	29.71	7.129e3	1.235e4	3.139e2	6.387e2	0.49	YES	0.000e0	0.00000	0.76474	0.421
Total Penta-Dioxins	30.21	9.832e3	1.538e4	5.346e2	7.471e2	0.72	NO	1.282e3	1.2070	1.2070	0.421
Total Penta-Dioxins	30.37	6.981e3	1.180e4	3.348e2	5.873e2	0.57	NO	9.221e2	0.86836	0.86836	0.421
Total Penta-Dioxins	30.47	5.834e3	7.745e3	2.156e2	4.081e2	0.53	YES	0.000e0	0.00000	0.52535	0.421
Total Penta-Dioxins	30.69	7.545e3	1.176e4	6.045e2	1.026e3	0.59	NO	1.631e3	1.5356	1.5356	0.421
1,2,3,7,8-PeCDD	31.45	3.590e3	8.203e3	1.909e2	3.676e2	0.52	YES	5.585e2	0.00000	0.46509	0.421
Total Penta-Dioxins	31.56	3.154e3	2.879e3	1.119e2	1.588e2	0.70	NO	2.706e2	0.25483	0.25483	0.421
Total Penta-Dioxins	31.85	3.603e3	4.487e3	1.091e2	1.404e2	0.78	YES	0.000e0	0.00000	0.21557	0.421

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-13B.qld

Last Altered: Wednesday, July 01, 2020 9:25:24 AM Pacific Daylight Time

Printed: Wednesday, July 01, 2020 9:26:13 AM Pacific Daylight Time

Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	DB	Exp	Calcd	EMPO	DL
Total Hexa-Dioxins	33.33	4.104e5	3.364e5	2.090e4	1.670e4	1.25	NO	3.760e4	63.221	63.221	0.872
Total Hexa-Dioxins	33.89	2.815e4	2.518e4	1.626e3	1.421e3	1.14	NO	3.047e3	5.1235	5.1235	0.872
Total Hexa-Dioxins	34.14	2.167e5	1.881e5	1.587e4	1.286e4	1.23	NO	2.873e4	48.314	48.314	0.872
Total Hexa-Dioxins	34.27	2.768e4	2.417e4	1.552e3	1.293e3	1.20	NO	2.845e3	4.7830	4.7830	0.872
1,2,3,4,7,8-HxCDD	34.84	8.088e3	6.372e3	3.510e2	3.094e2	1.13	NO	6.604e2	1.0340	1.0340	0.756
1,2,3,6,7,8-HxCDD	34.94	4.548e4	4.146e4	2.998e3	2.512e3	1.19	NO	5.510e3	7.9698	7.9698	0.765
Total Hexa-Dioxins	35.12	1.330e4	9.657e3	7.463e2	5.523e2	1.35	NO	1.299e3	2.1834	2.1834	0.872
1,2,3,7,8,9-HxCDD	35.24	1.349e4	9.156e3	8.794e2	7.343e2	1.20	NO	1.614e3	2.9985	2.9985	1.01

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	DB	Exp	Calcd	EMPO	DL
Total Hepta-Dioxins	37.76	2.031e6	1.951e6	1.681e5	1.652e5	1.02	NO	3.332e5	948.67	948.67	2.62
1,2,3,4,6,7,8-HpCDD	38.79	1.506e6	1.459e6	1.104e5	1.091e5	1.01	NO	2.195e5	624.94	624.94	2.62

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-13B.qld

Last Altered: Wednesday, July 01, 2020 9:25:24 AM Pacific Daylight Time

Printed: Wednesday, July 01, 2020 9:26:13 AM Pacific Daylight Time

Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	m/y	Resp	Comp	SMPC	DL
Total Tetra-Furans	20.35	3.455e3	5.491e3	2.270e2	3.707e2	0.61	YES	0.000e0	0.00000	0.35031	0.285
Total Tetra-Furans	20.87	7.245e3	1.065e4	6.202e2	8.999e2	0.69	NO	1.520e3	1.0205	1.0205	0.285
Total Tetra-Furans	21.47	3.738e4	4.602e4	3.428e3	4.391e3	0.78	NO	7.820e3	5.2497	5.2497	0.285
Total Tetra-Furans	22.44	2.563e4	2.819e4	2.503e3	3.027e3	0.83	NO	5.531e3	3.7131	3.7131	0.285
Total Tetra-Furans	22.94	1.400e4	1.990e4	1.363e3	1.852e3	0.74	NO	3.215e3	2.1585	2.1585	0.285
Total Tetra-Furans	23.28	4.728e3	7.030e3	5.184e2	5.455e2	0.95	YES	0.000e0	0.00000	0.64820	0.285
Total Tetra-Furans	23.88	3.188e3	5.860e3	2.459e2	3.906e2	0.63	YES	0.000e0	0.00000	0.37953	0.285
Total Tetra-Furans	24.04	1.639e4	2.002e4	1.592e3	2.042e3	0.78	NO	3.635e3	2.4403	2.4403	0.285
Total Tetra-Furans	24.16	1.382e4	2.084e4	1.161e3	1.611e3	0.72	NO	2.772e3	1.8608	1.8608	0.285
Total Tetra-Furans	24.66	6.701e4	9.431e4	5.460e3	7.076e3	0.77	NO	1.254e4	8.4163	8.4163	0.285
Total Tetra-Furans	24.94	4.391e3	5.902e3	3.123e2	3.339e2	0.94	YES	0.000e0	0.00000	0.39677	0.285
Total Tetra-Furans	25.14	3.836e3	3.935e3	2.393e2	3.049e2	0.78	NO	5.442e2	0.36535	0.36535	0.285
Total Tetra-Furans	25.48	1.584e4	2.255e4	8.710e2	1.375e3	0.63	YES	0.000e0	0.00000	1.3441	0.285
2,3,7,8-TCDF	25.60	8.196e4	1.086e5	6.456e3	8.513e3	0.76	NO	1.497e4	10.050	10.050	0.285
Total Tetra-Furans	25.98	9.372e3	1.179e4	6.091e2	8.119e2	0.75	NO	1.421e3	0.95400	0.95400	0.285
Total Tetra-Furans	27.61	2.063e4	2.040e4	1.452e3	1.512e3	0.96	YES	0.000e0	0.00000	1.7970	0.285

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	m/y	Resp	Comp	SMPC	DL
1st Func. Penta-Furans	27.59	1.736e5	1.156e5	1.113e4	6.987e3	1.59	NO	1.812e4	11.728	11.728	0.0735

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-13B.qld

Last Altered: Wednesday, July 01, 2020 9:25:24 AM Pacific Daylight Time

Printed: Wednesday, July 01, 2020 9:26:13 AM Pacific Daylight Time

Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Calc	EMPC	DL
Total Penta-Furans	29.02	9.080e3	6.807e3	5.656e2	4.752e2	1.19	YES	0.000e0	0.00000	0.60240	0.257
Total Penta-Furans	29.18	1.187e5	7.826e4	8.046e3	5.194e3	1.55	NO	1.324e4	8.5712	8.5712	0.257
Total Penta-Furans	29.76	3.031e4	2.376e4	2.084e3	1.339e3	1.56	NO	3.424e3	2.2165	2.2165	0.257
Total Penta-Furans	29.99	2.293e4	1.464e4	1.008e3	7.420e2	1.36	NO	1.750e3	1.1330	1.1330	0.257
1,2,3,7,8-PeCDF	30.17	1.808e5	1.190e5	9.778e3	6.113e3	1.60	NO	1.589e4	9.7811	9.7811	0.243
Total Penta-Furans	30.43	6.941e4	4.419e4	4.062e3	2.518e3	1.61	NO	6.580e3	4.2600	4.2600	0.257
2,3,4,7,8-PeCDF	31.16	1.013e5	5.134e4	4.105e3	2.586e3	1.59	NO	6.691e3	4.3620	4.3620	0.260
Total Penta-Furans	31.18	7.067e4	4.606e4	2.108e3	1.373e3	1.54	NO	3.482e3	2.2541	2.2541	0.257

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Calc	EMPC	DL
Total Hexa-Furans	32.79	1.936e4	1.703e4	9.536e2	8.175e2	1.17	NO	1.771e3	2.5980	2.5980	0.412
Total Hexa-Furans	32.95	6.757e4	5.167e4	3.331e3	2.814e3	1.18	NO	6.146e3	9.0151	9.0151	0.412
Total Hexa-Furans	33.49	1.473e5	1.237e5	7.659e3	6.279e3	1.22	NO	1.394e4	20.447	20.447	0.412
1,2,3,4,7,8-HxCDF	33.97	5.986e4	5.497e4	3.335e3	2.882e3	1.16	NO	6.217e3	8.8546	8.8546	0.370
1,2,3,6,7,8-HxCDF	34.07	1.777e4	1.430e4	1.105e3	8.692e2	1.27	NO	1.975e3	2.4663	2.4663	0.341
2,3,4,6,7,8-HxCDF	34.67	9.965e3	6.652e3	5.424e2	3.978e2	1.36	NO	9.402e2	1.4873	1.4873	0.443
1,2,3,7,8,9-HxCDF	35.61	6.246e3	2.601e3	1.501e2	7.951e1	1.89	YES	2.296e2	0.00000	0.37319	0.651
Total Hexa-Furans	35.62	6.730e3	4.741e3	2.517e2	1.429e2	1.76	YES	0.000e0	0.00000	0.46957	0.412

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Calc	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.37	6.205e4	7.186e4	4.974e3	5.135e3	0.97	NO	1.011e4	25.365	25.365	0.774
Total Hepta-Furans	37.99	2.059e5	2.099e5	1.653e4	1.645e4	1.00	NO	3.298e4	108.36	108.36	0.914

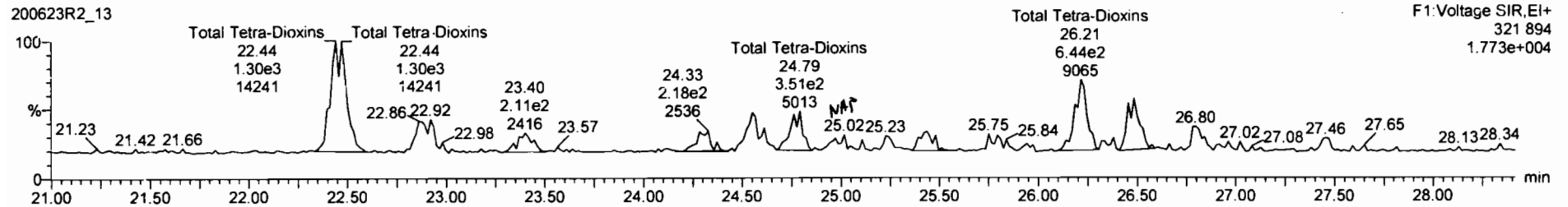
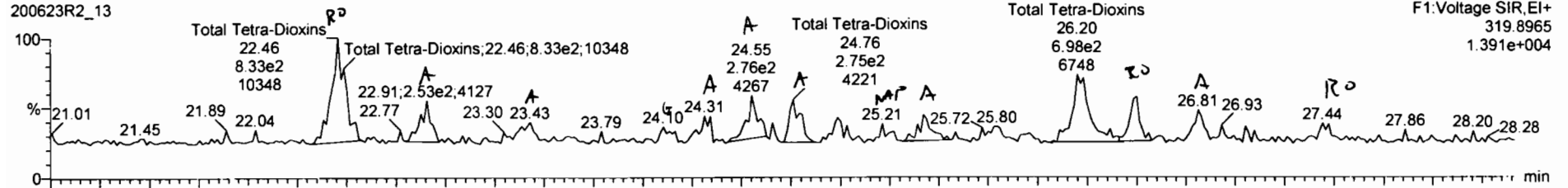
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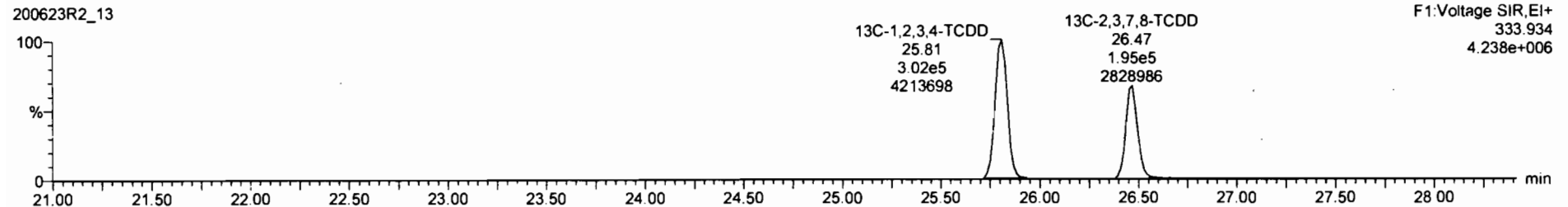
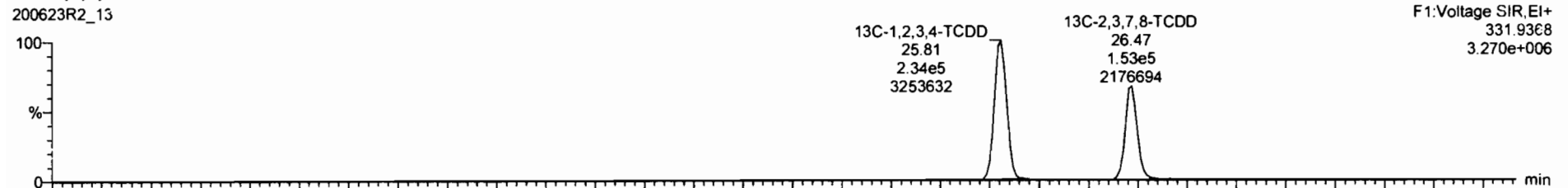
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Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

2,3,7,8-TCDD

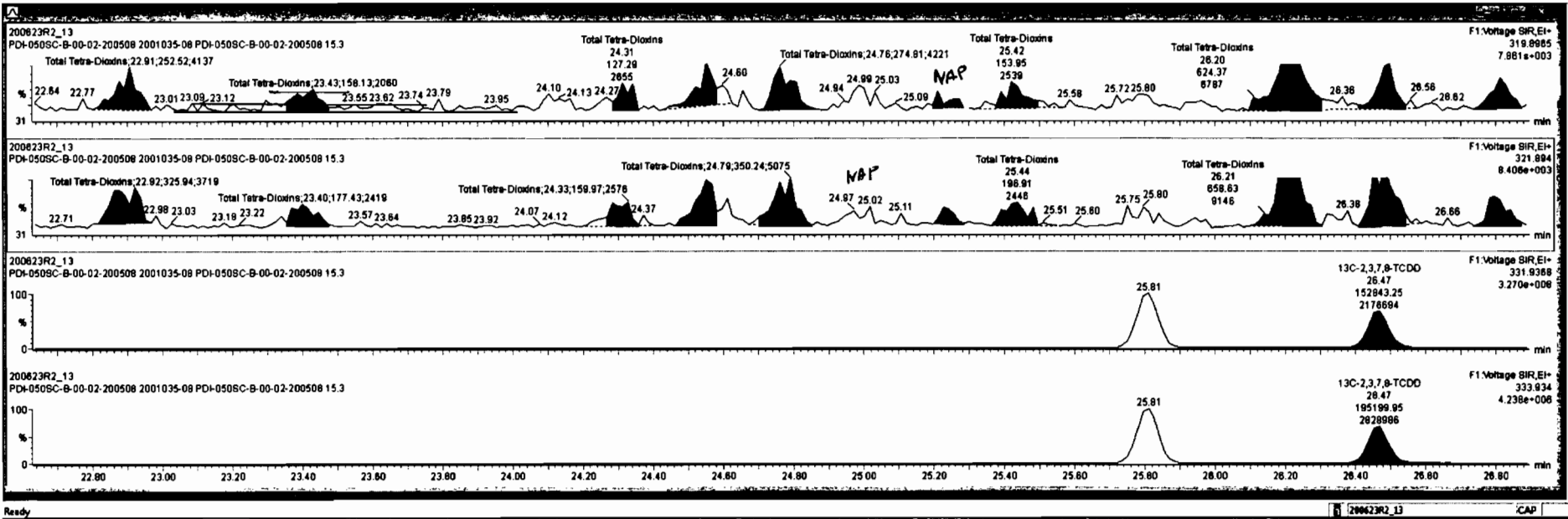


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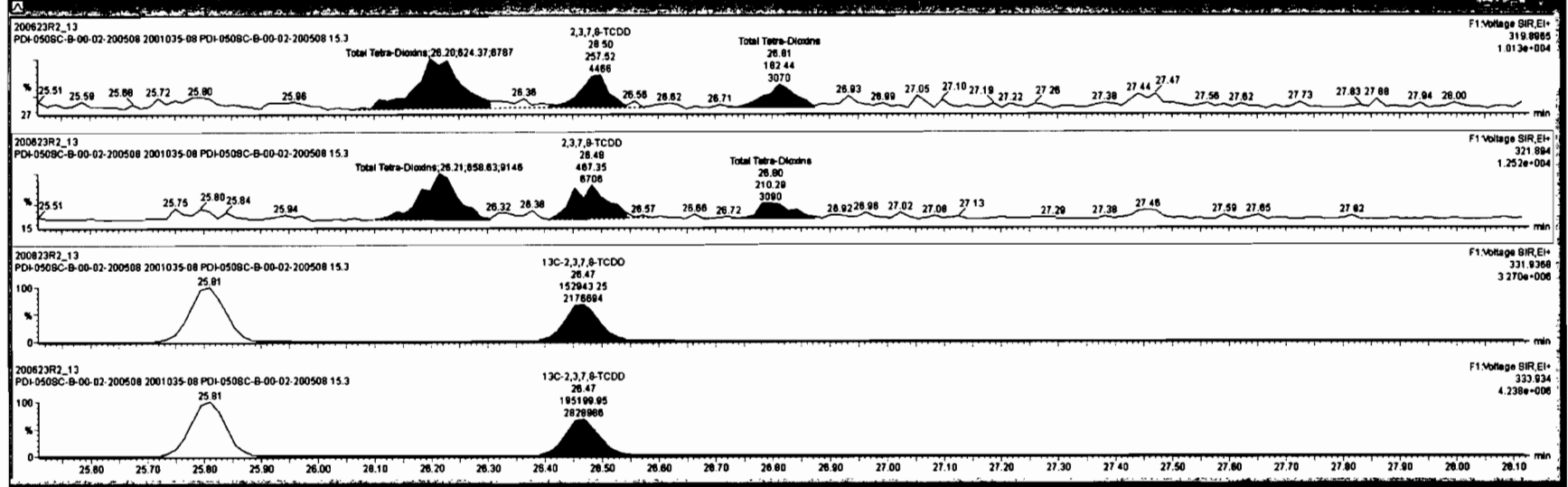
Item	Resp	FA	rt	Area	Height	Product	RT	Area	Height	Area	Height	Area	Height
40	Total Penta-Dioxine			0.8091	10.016	29.96		0.000		0.111	0.520		
41	Total Hexa-Dioxine			0.8623	10.016	33.63		1.32		0.872	1.35		
42	Total Hepta-Dioxine			0.8639	10.016	37.64		1560		2.82	1560		
43	Total Tetra-Furane			0.7510	10.016	23.61		37.7		0.285	42.0		
44	1st Func. Penta-Furane			0.8625	10.016	27.58		11.7		0.0735	11.7		
45	Total Penta-Furane			0.8625	10.016	29.27		32.3		0.257	32.9		
46	Total Hexa-Furane			0.9341	10.016	33.56		43.1		0.412	44.4		
47	Total Hepta-Furane			0.8734	10.016	37.83		1.34		0.914	1.34		

Item	RT	wt Resp	id Resp	FA	rt	Area	Height	Area	Height
1	Total Tetra-Dioxine	22.91	2.526e2	3.258e2	0.77	NO	0.37349	0.37349	
2	Total Tetra-Dioxine	23.43	1.591e2	1.774e2	0.80	YES	0.20277	0.00000	
3	Total Tetra-Dioxine	24.31	1.273e2	1.800e2	0.80	NO	0.18547	0.18547	
4	Total Tetra-Dioxine	24.55	2.013e2	2.905e2	0.89	NO	0.31756	0.31756	



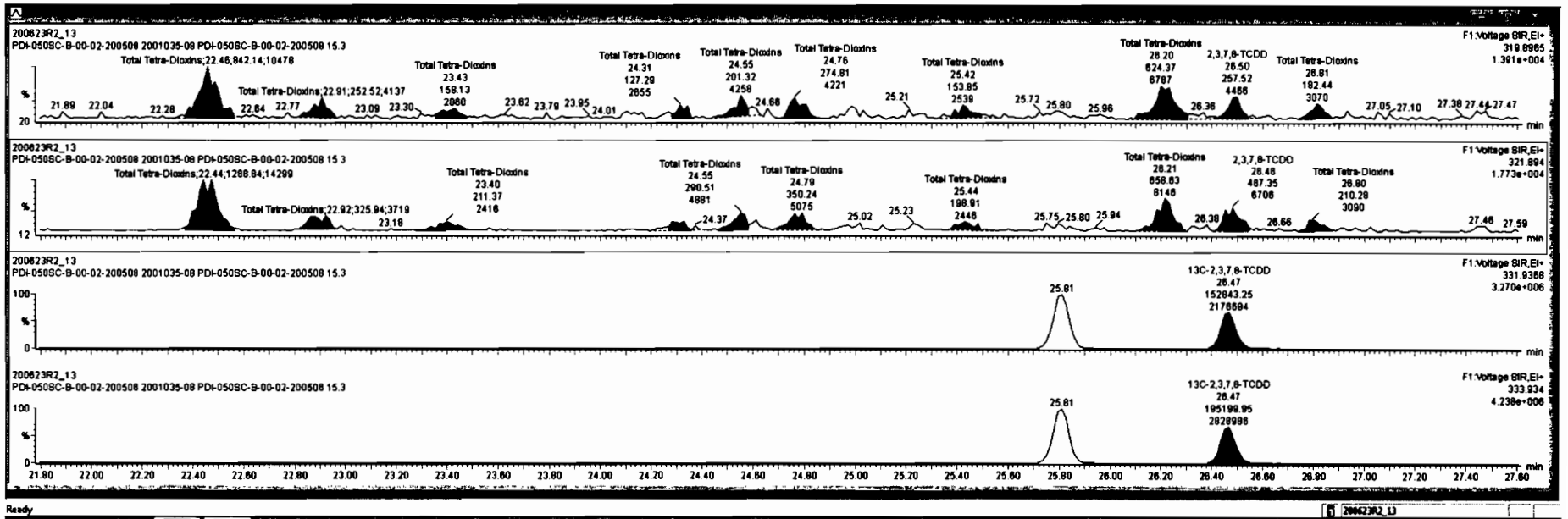
RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
26												
40	Total Penta-Dioxine						0.0091	10.016	29.98		0.000	0.111
41	Total Hexa-Dioxine						0.0623	10.016	33.83		1.32	0.872
42	Total Hepta-Dioxine						0.0638	10.016	37.84		1.980	2.82
43	Total Tetra-Furane						0.7510	10.016	23.81		37.7	0.286
44	1st Func. Furane-Furane						0.0625	10.016	27.59		11.7	0.0735
45	Total Penta-Furane						0.0625	10.016	28.27		32.3	0.257
46	Total Hexa-Furane						0.8341	10.016	33.58		43.1	0.412
47	Total Hepta-Furane						0.8734	10.016	37.83		1.34	0.914
48	PFKI											

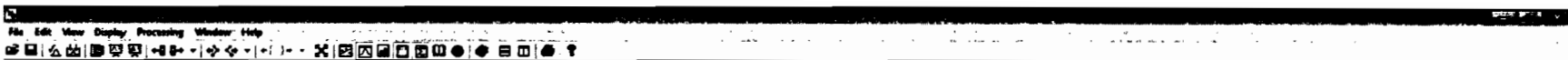
RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
1	Total Tetra-Dioxine	22.46	8.421e2	1.269e3	0.85	YES	1.2498	0.00000				
2	Total Tetra-Dioxine	22.81	2.525e2	3.259e2	0.77	NO	0.37348	0.37348				
3	Total Tetra-Dioxine	23.43	1.581e2	2.114e2	0.75	NO	0.23868	0.23868				
4	Total Tetra-Dioxine	24.31	1.273e2	1.800e2	0.80	NO	0.18547	0.18547				
5	Total Tetra-Furane	24.48	2.011e2	2.876e2	0.88	NO	0.11748	0.11748				



RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
40	Total Penta-Dioxine			0.9081	10.016	29.96			0.000		0.111	0.528
41	Total Hexa-Dioxine			0.8923	10.016	33.63			132		0.672	1.35
42	Total Hepta-Dioxine			0.8639	10.016	37.64			1980		2.82	1980
43	Total Tetra-Furane			0.7510	10.016	23.61			37.7		0.265	42.0
44	1st Func. Penta-Furane			0.8825	10.016	27.58			11.7		0.0736	11.7
45	Total Penta-Furane			0.8825	10.016	26.27			32.3		0.257	32.9
46	Total Hexa-Furane			0.9341	10.016	33.56			43.1		0.412	44.4
47	Total Hepta-Furane			0.8734	10.016	37.83			134		0.814	134
48	PK1											

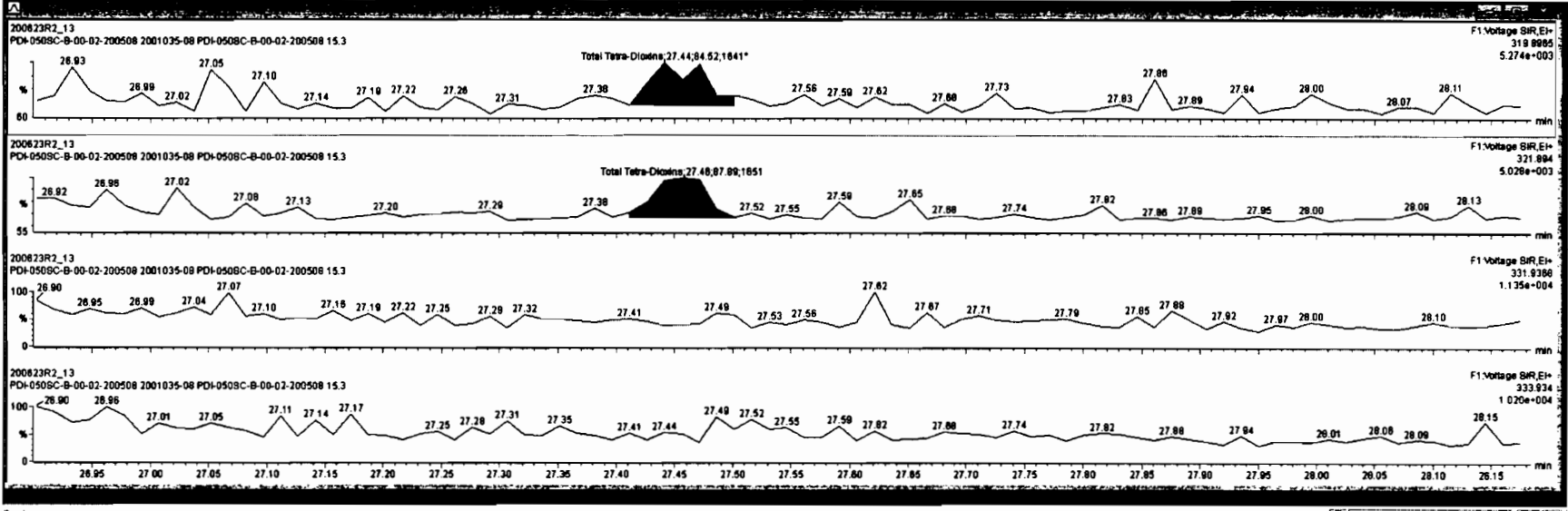
RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
1	Total Tetra-Dioxine	22.46	8.421e2	1.289e3	0.85	YES	1.2498	0.00000				
2	Total Tetra-Dioxine	22.81	2.525e2	3.299e2	0.77	NO	0.37348	0.37348				
3	Total Tetra-Dioxine	23.43	1.581e2	2.114e2	0.75	NO	0.23858	0.23858				
4	Total Tetra-Dioxine	24.31	1.273e2	1.800e2	0.80	NO	0.18547	0.18547				
5	Total Tetra-Dioxine	24.44	2.011e2	2.805e2	0.88	NO	0.11748	0.11748				





RT	RT	RT	RT	RT	RT	RT	RT	RT	RT
40	Total Peris-Dioxine	0.9081	10.016	29.96		0.000	0.111	0.528	
41	Total Hexa-Dioxine	0.8623	10.016	33.83		132	0.872	135	
42	Total Hepta-Dioxine	0.8636	10.016	37.84		1680	2.82	1560	
43	Total Tetra-Furane	0.7510	10.016	23.81		37.7	0.286	42.0	
44	Total Furane-Peris-Furane	0.8825	10.016	27.39		11.7	0.0735	11.7	
45	Total Peris-Furane	0.8825	10.016	28.27		32.3	0.257	32.8	
46	Total Hexa-Furane	0.9341	10.016	33.38		43.1	0.412	44.4	
47	Total Hepta-Furane	0.8734	10.016	37.83		134	0.914	134	
48	PPM								

RT	RT	RT	RT	RT	RT	RT	RT	
1	Total Tetra-Dioxine	22.46	8.421e2	1.289e3	0.95	YES	1.2480	0.00000
2	Total Tetra-Dioxine	22.91	2.625e2	3.259e2	0.77	NO	0.37348	0.37348
3	Total Tetra-Dioxine	23.43	1.581e2	2.114e2	0.75	NO	0.23858	0.23858
4	Total Tetra-Dioxine	24.31	1.273e2	1.800e2	0.80	NO	0.18547	0.18547



Ready [200613R2_13]

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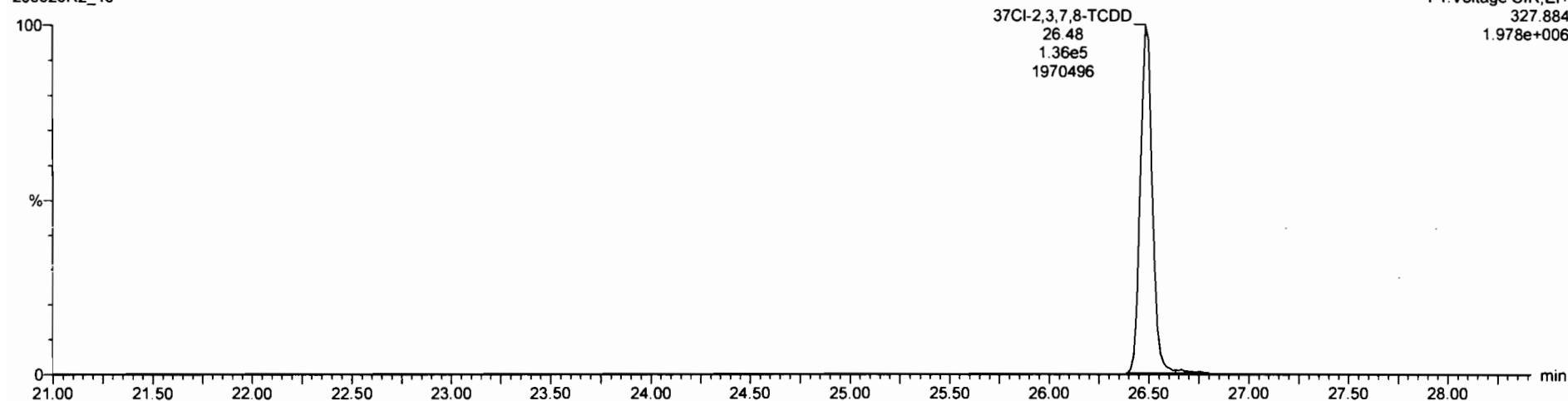
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Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

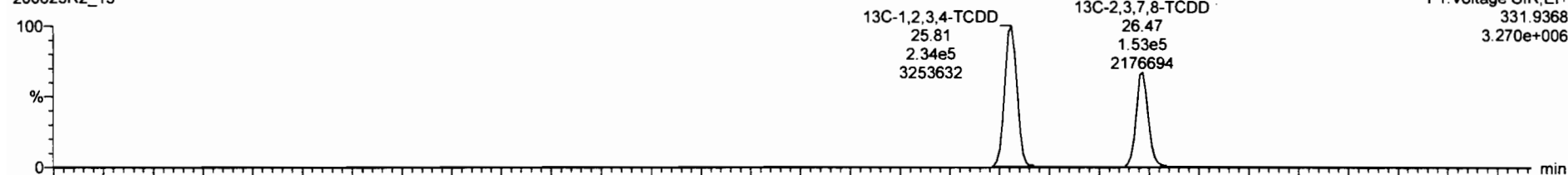
37Cl-2,3,7,8-TCDD

200623R2_13

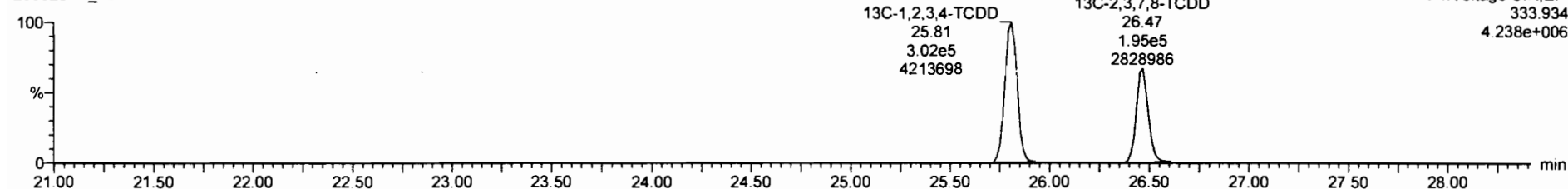


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200623R2_13



200623R2_13



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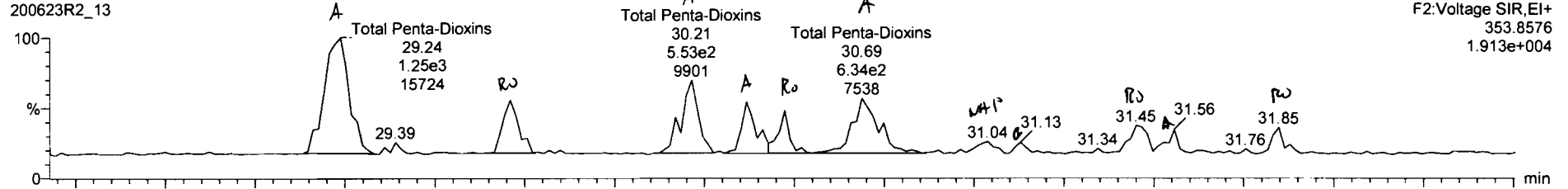
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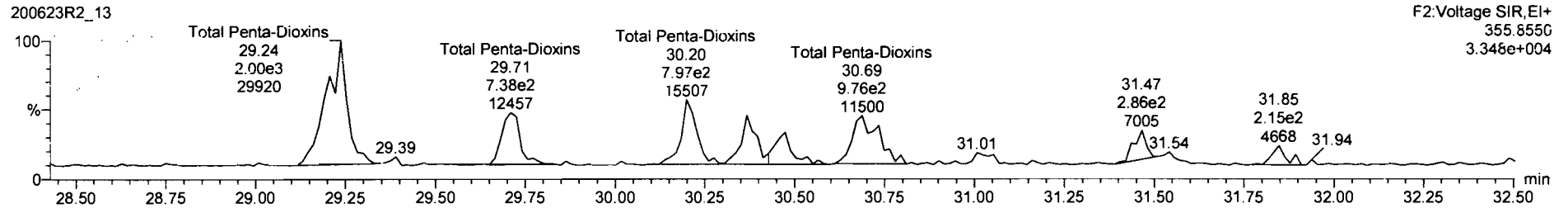
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1,2,3,7,8-PeCDD

200623R2_13

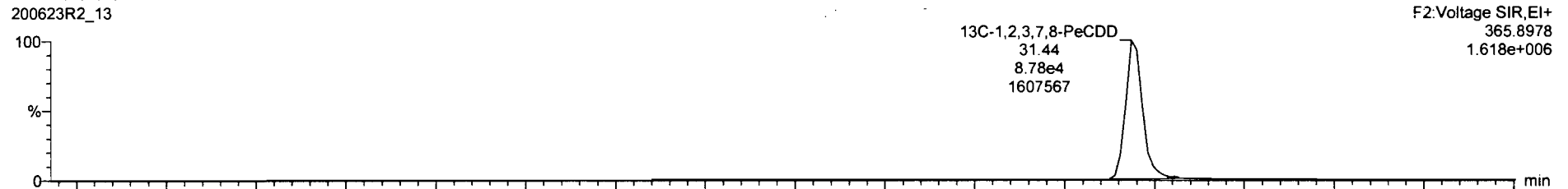


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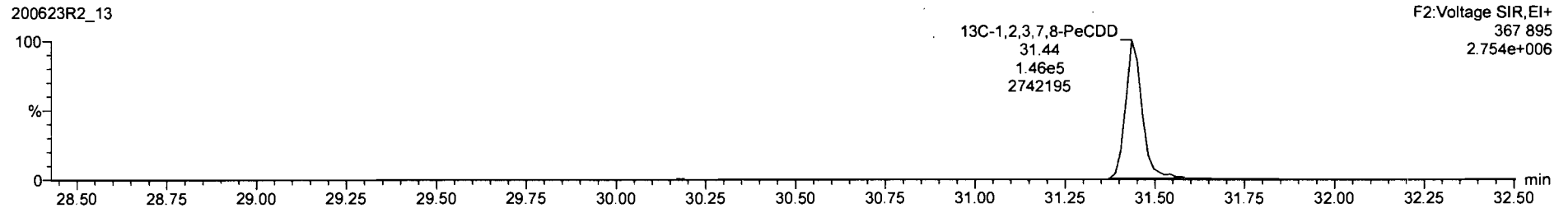


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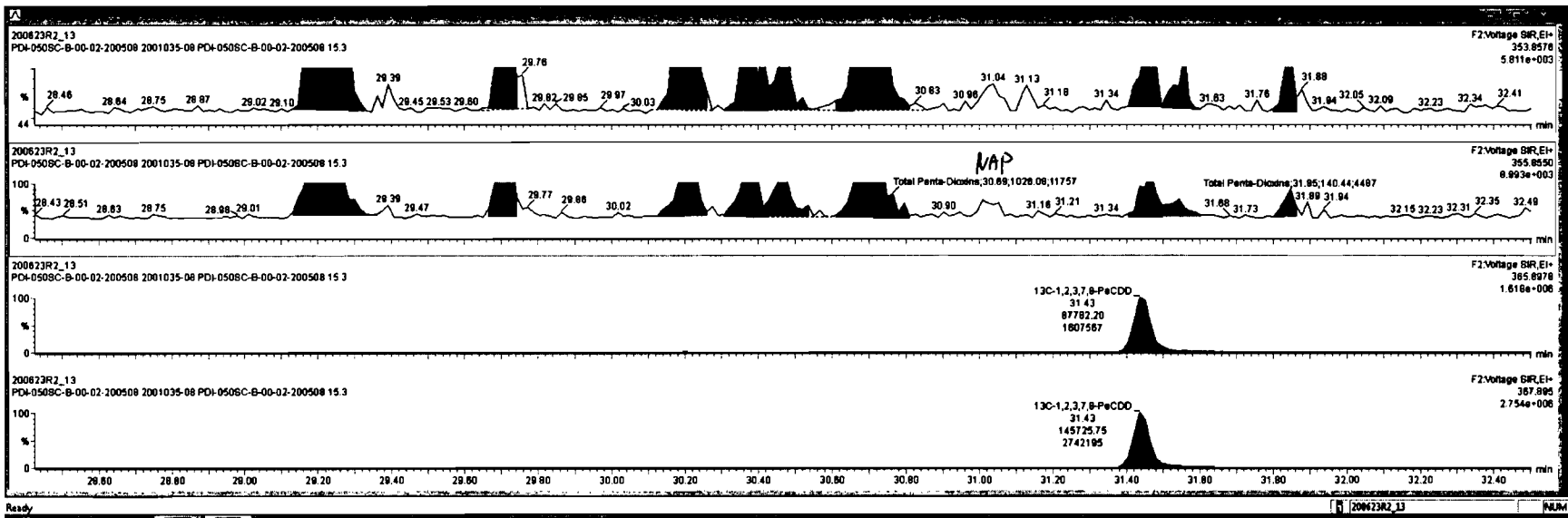


200623R2_13



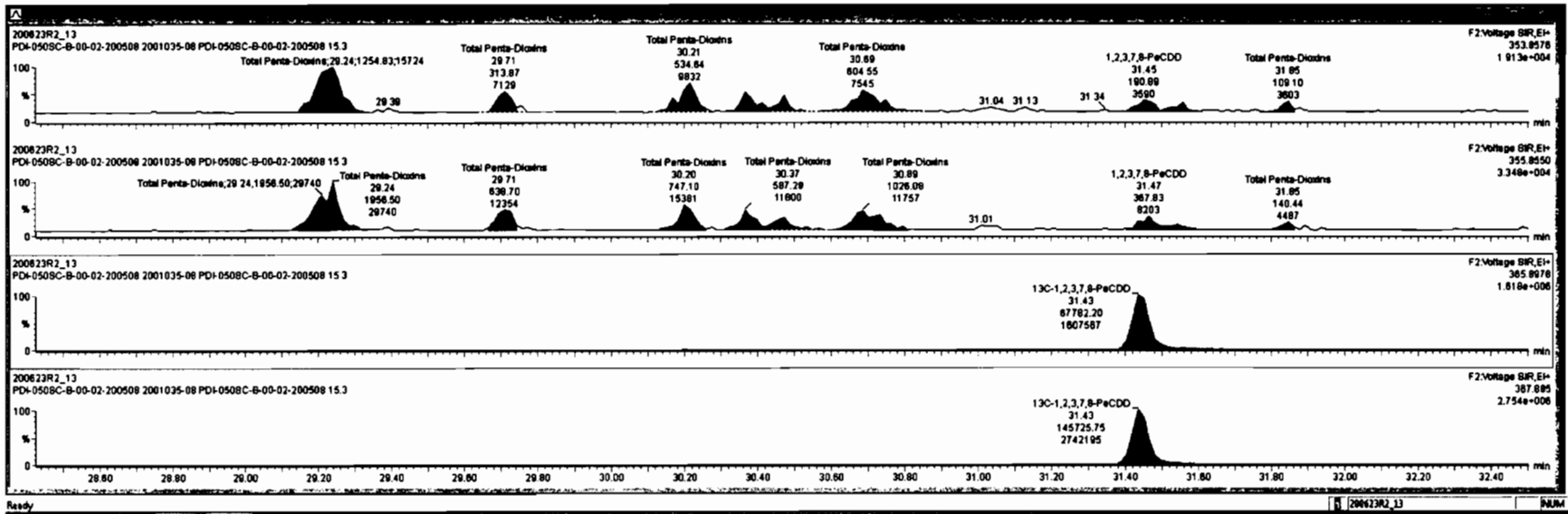
Sample	Concentration	Area	Height	Width	Retention	Integration	Integration	Integration
29.1	Total Tetra-Dioxins	0.8883	10.018	24.82		2.00	0.191	4.48
29.2	Total Hexa-Dioxins	0.8823	10.018	33.83		1.32	0.872	1.35
29.3	Total Hepta-Dioxins	0.8838	10.018	37.84		1.90	2.82	1.90
29.4	Total Tetra-Furans	0.7510	10.018	23.81		37.7	0.286	42.0
29.5	1st Func. Penta-Furans	0.8825	10.018	27.58		11.7	0.0735	11.7
29.6	Total Penta-Furans	0.8825	10.018	28.27		32.3	0.257	32.9

Sample	Concentration	Area	Height	Width	Retention	Integration	Integration	Integration
29.7	Total Penta-Dioxins	28.71	3.138e2	6.367e2	0.48	YES	0.78474	0.00000
29.8	Total Penta-Dioxins	30.21	5.348e2	7.471e2	0.72	NO	1.2070	1.2070
29.9	Total Penta-Dioxins	30.37	3.348e2	5.873e2	0.57	NO	0.88638	0.88638
30.0	Total Penta-Dioxins	30.47	2.158e2	4.081e2	0.53	YES	0.52636	0.00000
30.1	Total Penta-Dioxins	30.80	8.045e2	1.028e3	0.59	NO	1.5368	1.5368
30.2	1,2,3,7,8-PeCDD	31.45	1.808e2	3.678e2	0.52	YES	0.48508	0.00000
30.3	Total Penta-Dioxins	31.88	1.119e2	1.588e2	0.70	NO	0.25483	0.25483
30.4	Total Penta-Dioxins	31.85	1.061e2	1.404e2	0.78	YES	0.21557	0.00000



Sample	Concentration	Area	Height	Width	Area%	Height%	Width%
401	Total Toluene-Dioxins	0.8693	10.016	24.62		2.00	0.191 4.46
402	Total Hexa-Chlorine	0.8625	10.016	33.63		1.33	0.873 1.35
403	Total Hepta-Chlorine	0.8639	10.016	37.84		1560	2.62 1560
404	Total Toluene-Furans	0.7510	10.016	23.81		37.7	0.286 42.0
405	1st Func. Penta-Furans	0.8625	10.016	27.58		11.7	0.0735 11.7
406	Total Penta-Furans	0.8625	10.016	29.27		32.3	0.297 32.9

Sample	Concentration	Area	Height	Width	Area%	Height%	Width%
1	Total Penta-Dioxins	29.24	1.255e3	1.806e3	0.84	NO	3.0241 3.0241
2	Total Penta-Dioxins	29.71	3.138e2	6.367e2	0.48	YES	0.78474 0.00000
3	Total Penta-Dioxins	30.21	5.348e2	7.471e2	0.72	NO	1.2070 1.2070
4	Total Penta-Dioxins	30.37	3.248e2	5.873e2	0.67	NO	0.88838 0.88838
5	Total Penta-Dioxins	30.47	2.159e2	4.091e2	0.63	YES	0.62636 0.00000
6	Total Penta-Dioxins	30.89	6.045e2	1.026e3	0.58	NO	1.5358 1.5358
7	1,2,3,7,8-PeCDD	31.45	1.809e2	3.878e2	0.52	YES	0.48008 0.00000
8	Total Penta-Dioxins	31.56	1.118e2	1.588e2	0.70	NO	0.25483 0.25483

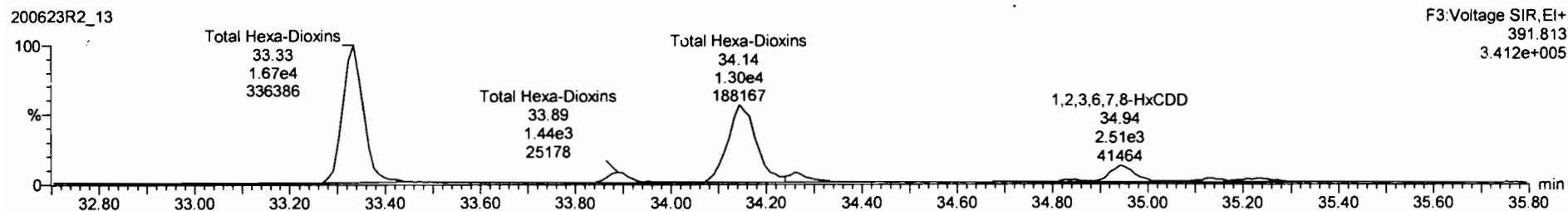
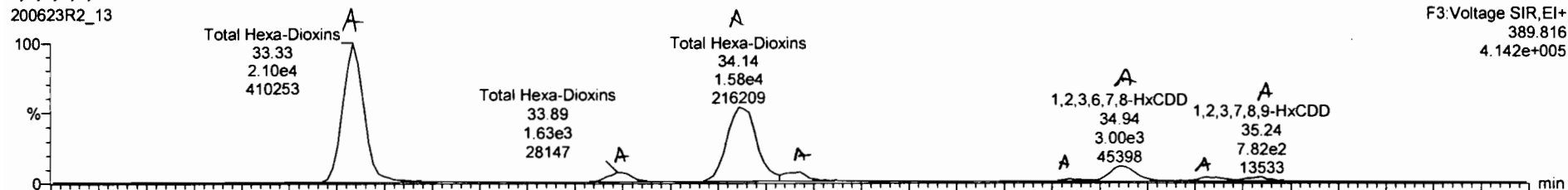


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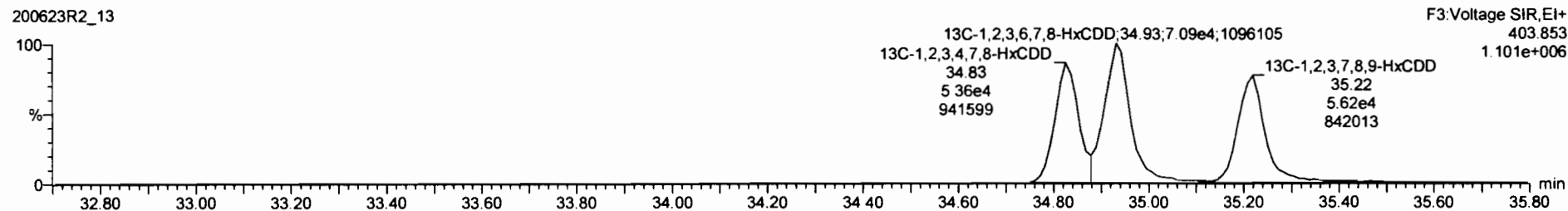
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1,2,3,4,7,8-HxCDD

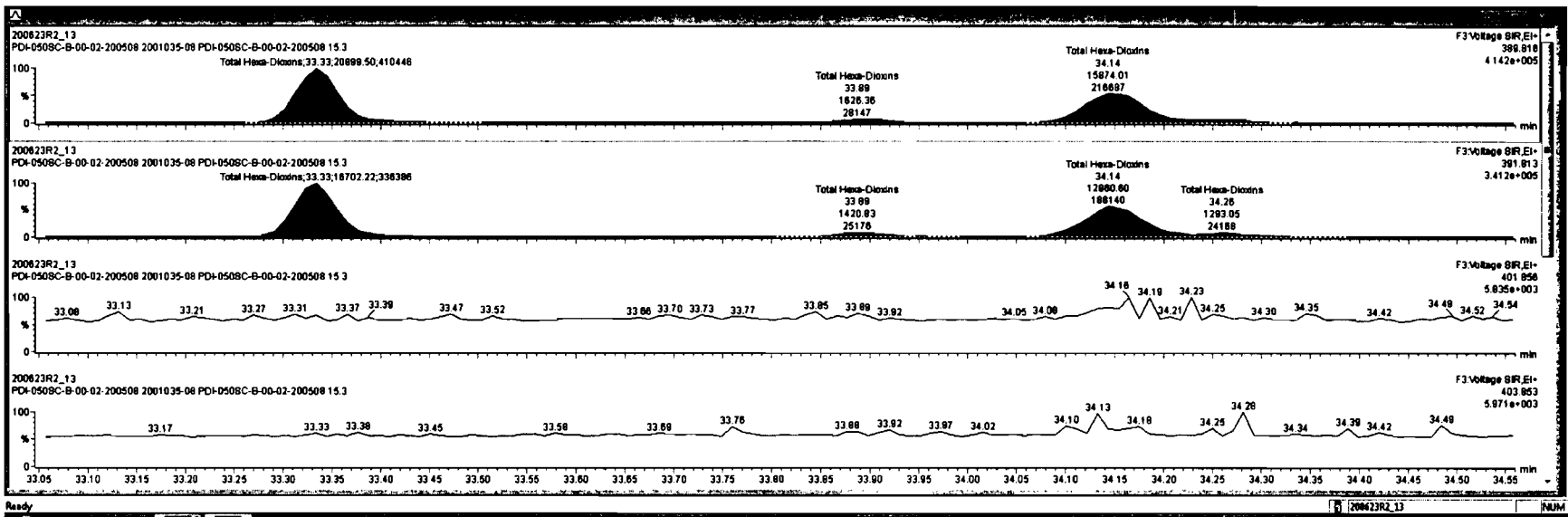


13C-1,2,3,4,7,8-HxCDD



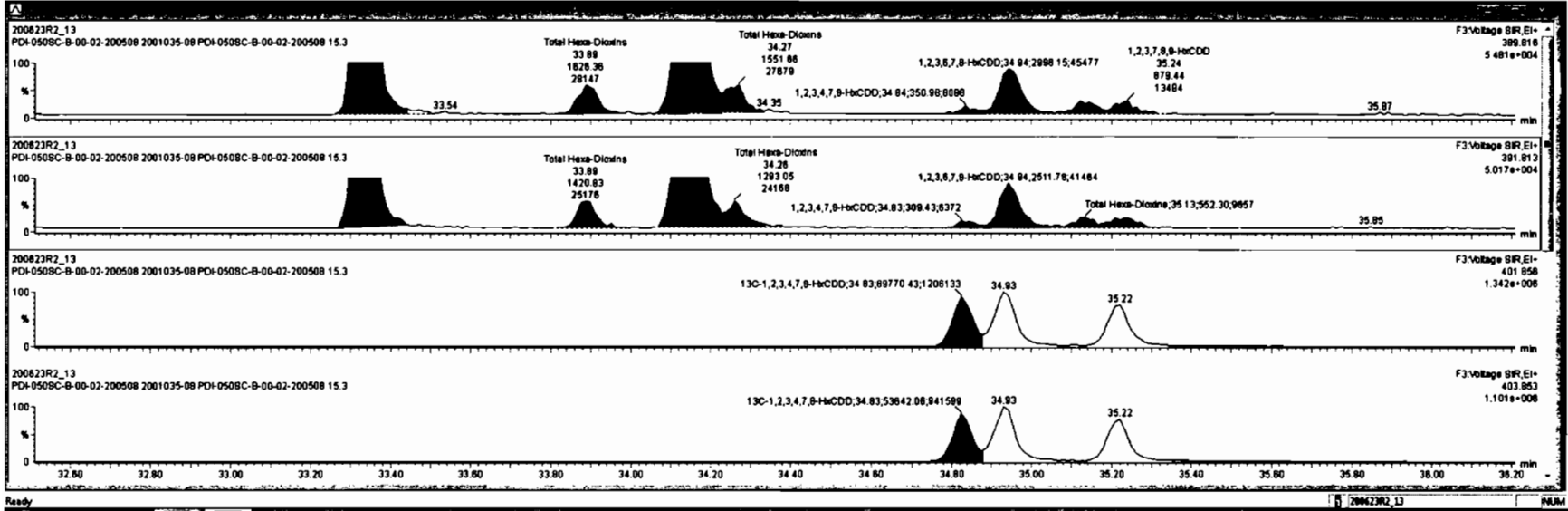
Sample	Concentration	Area	Height	Width	Retention	Response	Integration	Integration
33.3	Total Tetra-Dioxins	0.8983	10.016	24.82		2.00	0.191	4.48
33.8	Total Penta-Dioxins	0.9081	10.016	28.98		8.98	0.421	8.88
33.9	Total Hexa-Dioxins	0.8923	10.016	33.83		1.36	0.872	1.36
37.84	Total Hexa-Furans	0.8638	10.016	37.84		1.90	2.82	1.90
37.7	Total Tetra-Furans	0.7510	10.016	37.7		37.7	0.285	42.0
37.58	1st Func. Penta-Furans	0.8825	10.016	37.58		11.7	0.0735	11.7
32.5	Total Penta-Furans	0.8825	10.016	32.5		32.5	0.257	32.9

Sample	Concentration	Area	Height	Width	Retention	Response	Integration	Integration
33.33	Total Hexa-Dioxins	2.080e4	1.870e4	1.25	NO	63.221	63.221	63.221
33.88	Total Hexa-Dioxins	1.828e3	1.421e3	1.14	NO	5.1235	5.1235	5.1235
34.14	Total Hexa-Dioxins	1.587e4	1.286e4	1.23	NO	48.314	48.314	48.314
34.27	Total Hexa-Dioxins	1.552e3	1.293e3	1.20	NO	4.7830	4.7830	4.7830
34.84	1,2,3,4,7,8-HxCDD	3.510e2	3.094e2	1.13	NO	1.0340	1.0340	1.0340
34.84	2,3,6,7,8-HxCDD	2.988e3	2.512e3	1.19	NO	7.9888	7.9888	7.9888
35.12	Total Hexa-Dioxins	7.463e2	5.523e2	1.35	NO	2.1834	2.1834	2.1834
35.24	1,2,3,7,8-HxCDD	6.794e2	7.343e2	1.20	NO	2.9885	2.9885	2.9885



Sample	Concentration	Area	Height	Width	Retention	Response	Integration	Integration	Integration	Integration
48	Total Tetra-Dioxins	0.8883	10.018	24.82		2.00				0.191 4.48
49	Total Penta-Dioxins	0.8091	10.018	28.86		6.96				0.421 8.98
49	Total Hexa-Dioxins	0.8623	10.018	33.83		1.36				0.872 1.36
49	Total Hepta-Dioxins	0.8638	10.018	37.84		1980				2.82 1980
49	Total Tetra-Furans	0.7510	10.018	23.81		37.7				0.285 42.0
49	Total Penta-Furans	0.8625	10.018	27.50		11.7				0.0735 11.7
49	Total Hexa-Furans	0.8625	10.018	29.27		32.3				0.257 32.3

Sample	Concentration	Area	Height	Width	Retention	Response	Integration	Integration	Integration	Integration
1	Total Hexa-Dioxins	33.33	2.00e4	1.870e4	1.25	NO	83.221	83.221		
2	Total Hexa-Dioxins	33.88	1.828e3	1.421e3	1.14	NO	5.1235	5.1235		
3	Total Hexa-Dioxins	34.14	1.587e4	1.288e4	1.23	NO	48.314	48.314		
4	Total Hexa-Dioxins	34.27	1.562e3	1.283e3	1.20	NO	4.7830	4.7830		
5	1,2,3,4,7,8-HxCDD	34.84	3.510e2	3.094e2	1.13	NO	1.0340	1.0340		
6	1,2,3,6,7,8-HxCDD	34.84	2.988e3	2.512e3	1.18	NO	7.8088	7.8088		
7	Total Hexa-Dioxins	35.12	7.483e2	5.523e2	1.35	NO	2.1834	2.1834		
8	1,2,3,7,8-HxCDD	35.24	8.794e2	7.343e2	1.20	NO	2.9885	2.9885		



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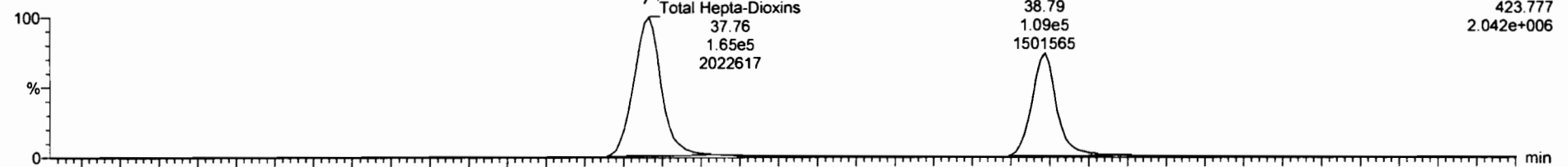
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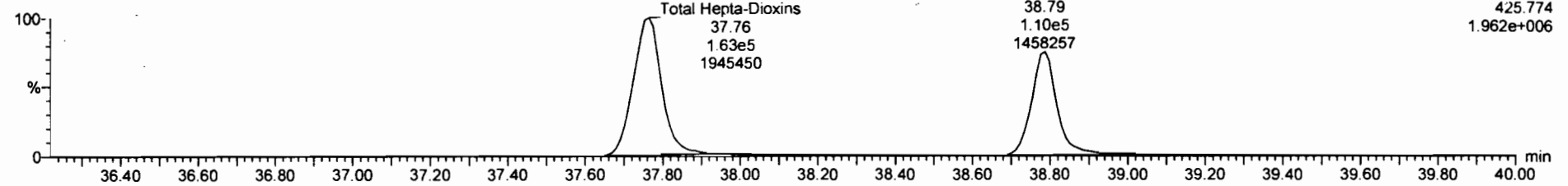
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1,2,3,4,6,7,8-HpCDD

200623R2_13

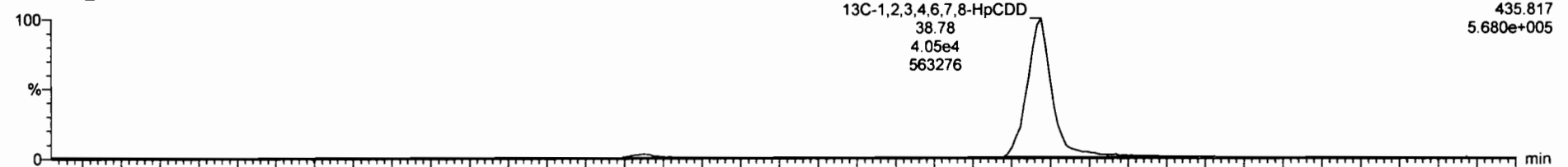


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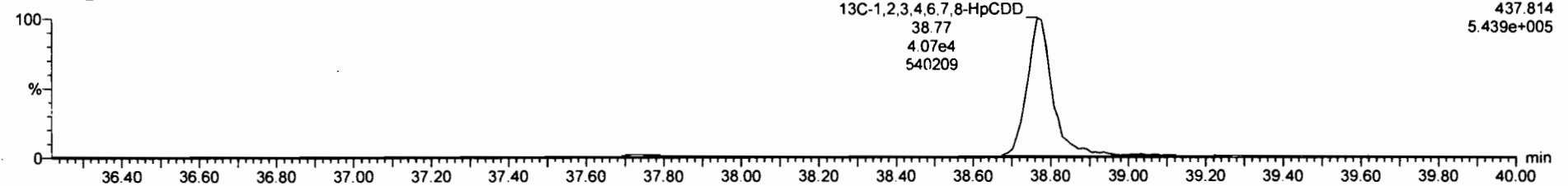


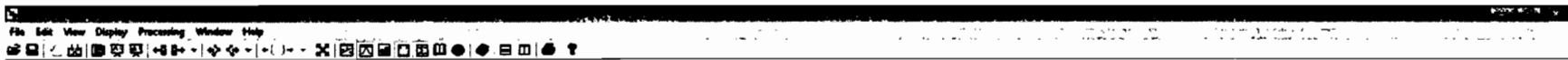
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200623R2_13



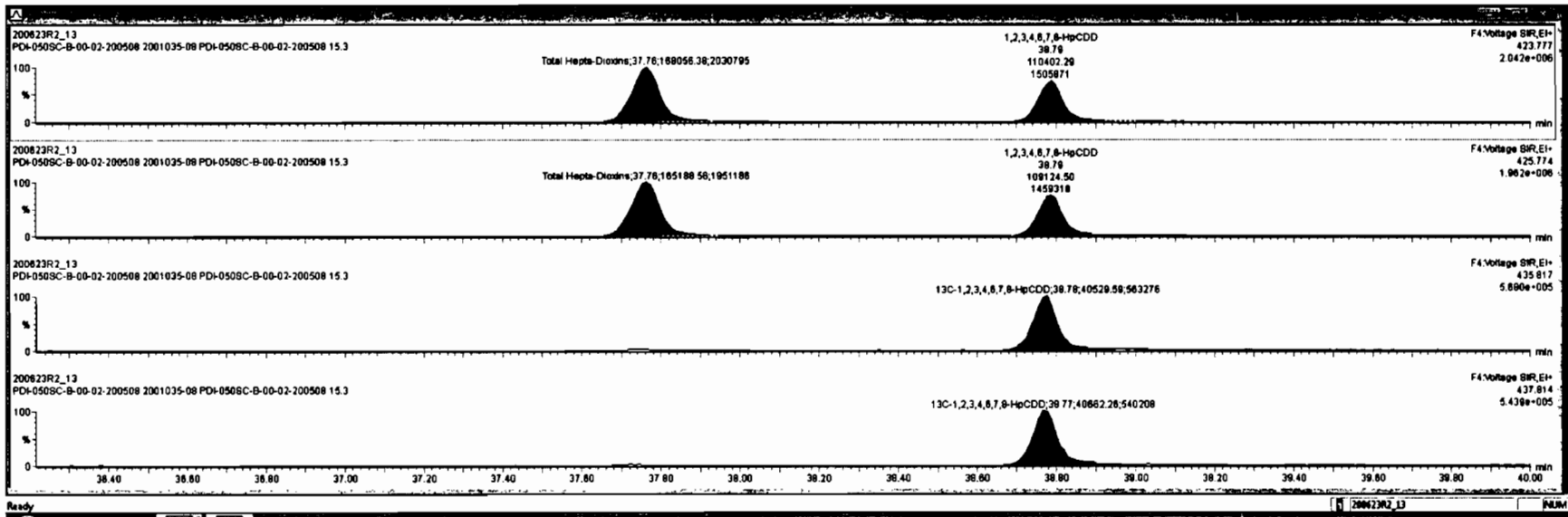
200623R2_13





Mass	Resp	SA	Int	Area	Height	W	MS	Conc	Unit	DL	RPC
38	Total Tetra-Dioxins			0.8603	10.018	24.82		2.00		0.191	4.48
48	Total Penta-Dioxins			0.9061	10.018	29.86		6.86		0.421	8.95
67	Total Hexa-Dioxins			0.8623	10.018	33.83		1.36		0.872	1.36
42	Total Tetra-Furans			0.7510	10.018	23.81		37.7		0.285	43.0
48	1st Func. Penta-Furans			0.8625	10.018	27.58		11.7		0.0735	11.7
48	Total Penta-Furans			0.8625	10.018	28.27		32.3		0.257	32.9

Mass	RT	Int Resp	Int Resp	RPC	RPC	RPC	RPC
1	Total Hepta-Dioxins	37.76	1.881e5	1.852e5	1.02	NO	946.87
2	1,2,3,4,6,7,8-HpCDD	38.79	1.104e5	1.091e5	1.01	NO	624.94



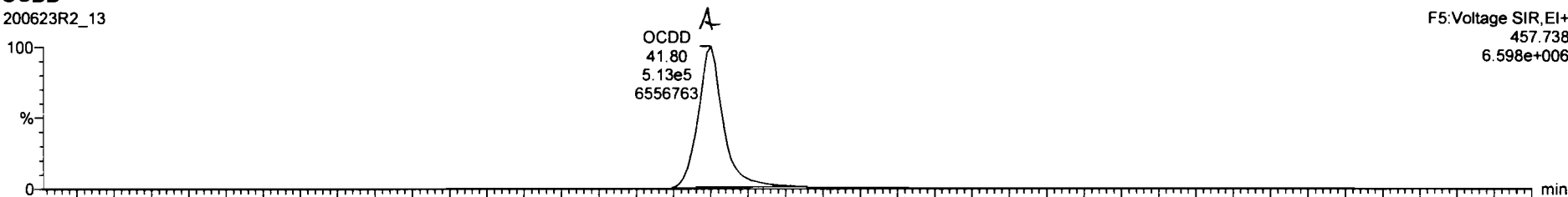
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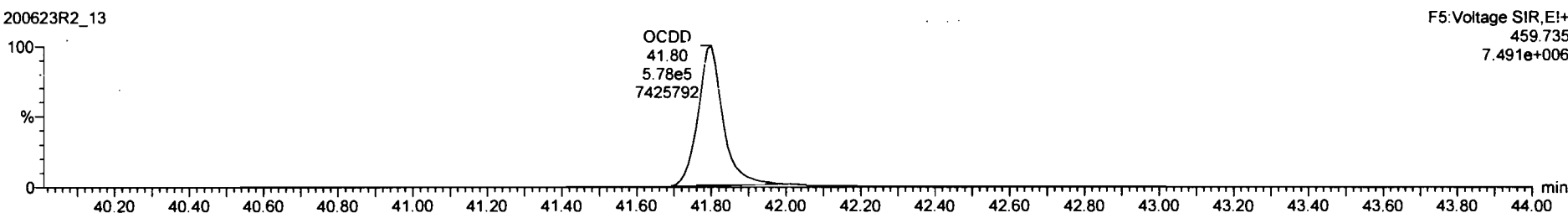
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OCDD

200623R2_13

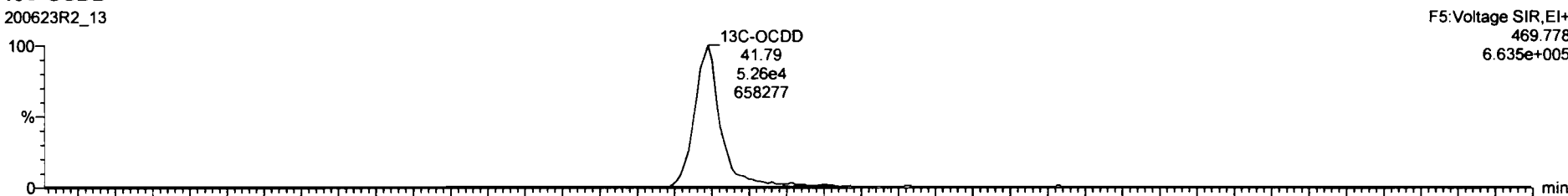


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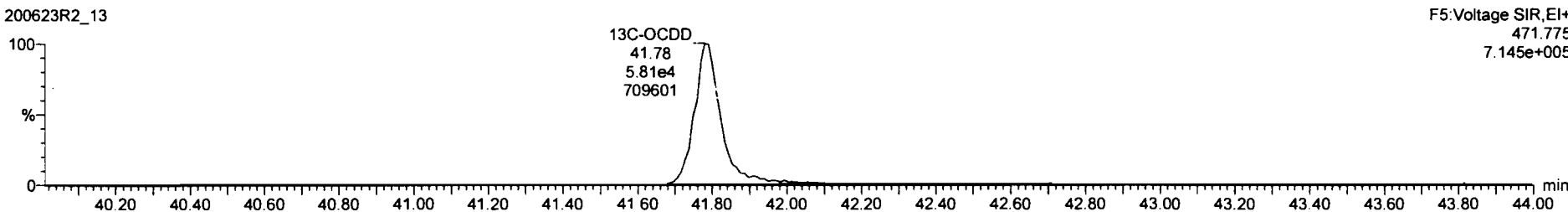


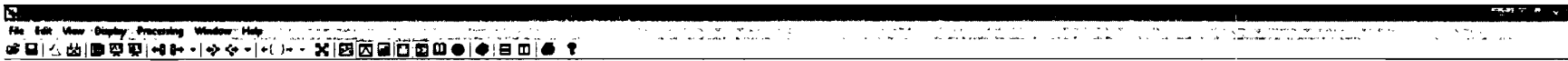
13C-OCDD

200623R2_13



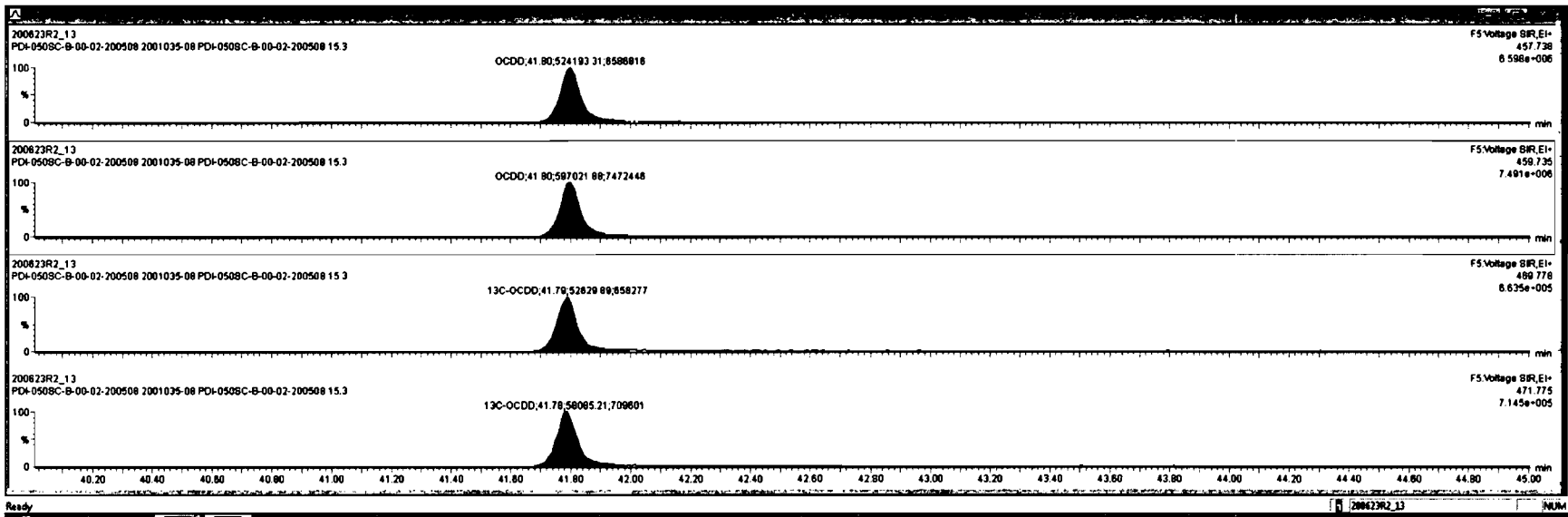
200623R2_13





Peak	Retention Time	Area	Height	Width	Resolution	Signal	Baseline	Integration	Integration	Integration		
7	2.37	1.45e4	0.74	ND	0.7510	10.018	25.80	25.80	1.001	8.85	0.285	8.85
8	1.23	1.95e4	1.89	ND	0.8825	10.018	30.18	30.17	1.000	9.80	0.243	9.80
10	2.34	1.02e4	1.82	ND	0.8348	10.018	31.18	31.18	1.001	8.52	0.280	8.52
11	1.23	8.44e3	1.18	ND	0.884E	10.018	33.95	33.97	1.001	9.17	0.370	9.17
12	1.23	1.78e3	1.27	NO	0.8892	10.018	34.08	34.07	1.000	2.20	0.341	2.20
18	2.34	9.24e2	1.51	YES	0.9341	10.018	34.88	34.87	1.000	1.46	0.443	1.30

Area	Height	Width	Resolution	Signal	Baseline	Integration	Integration

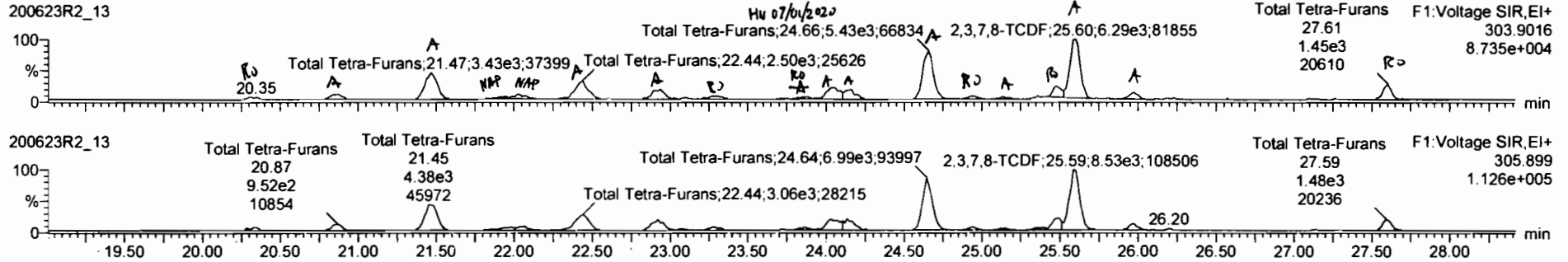


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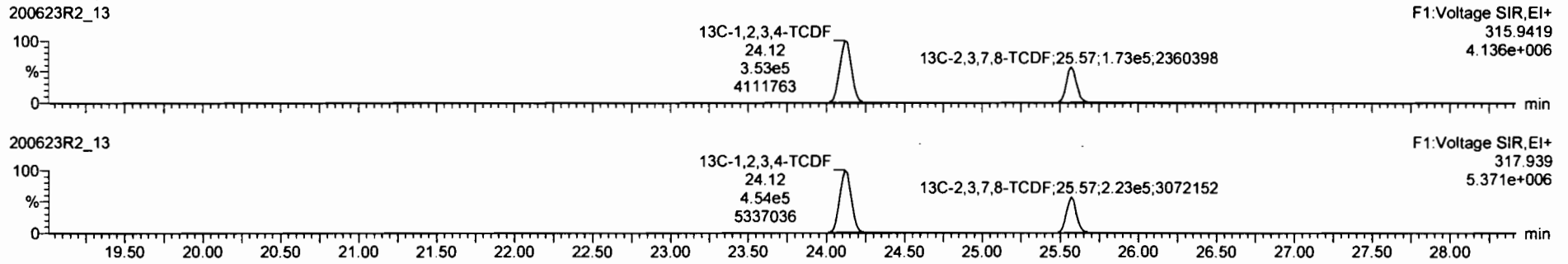
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Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

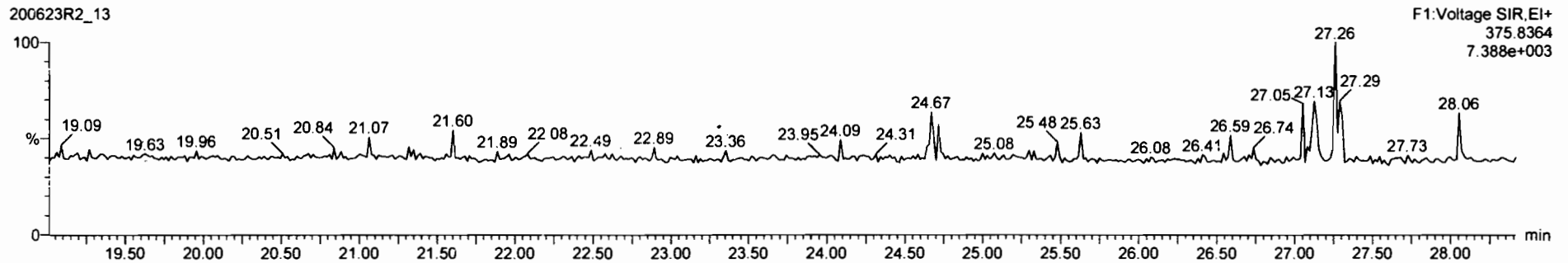
2,3,7,8-TCDF



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



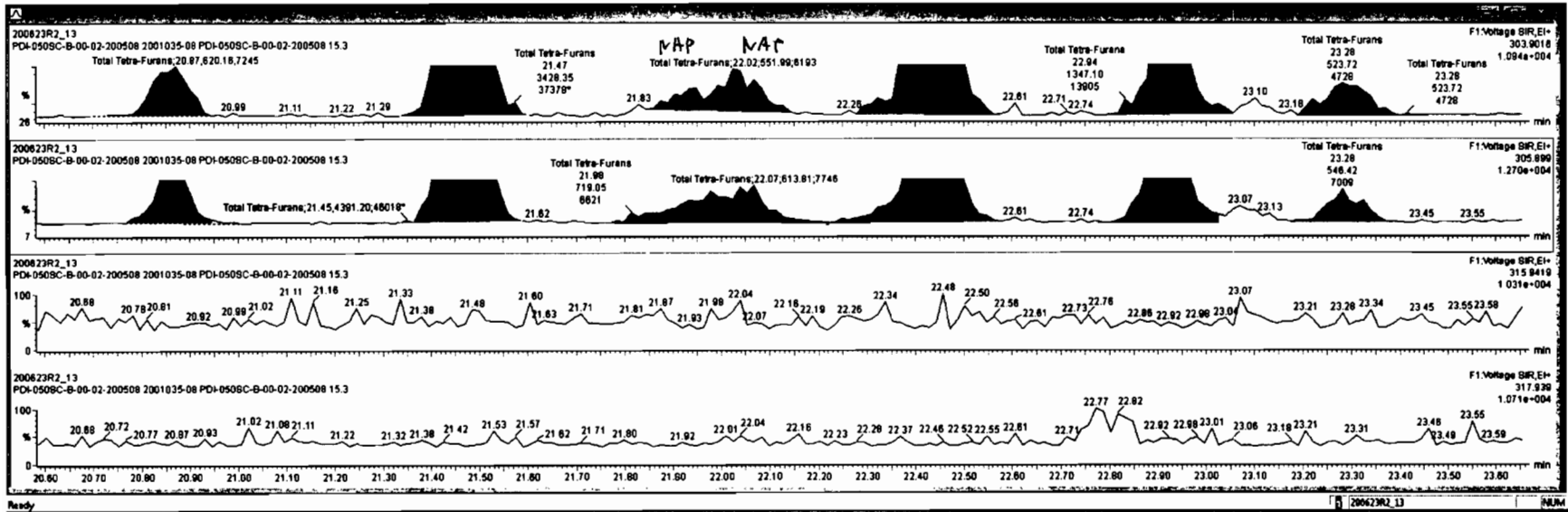
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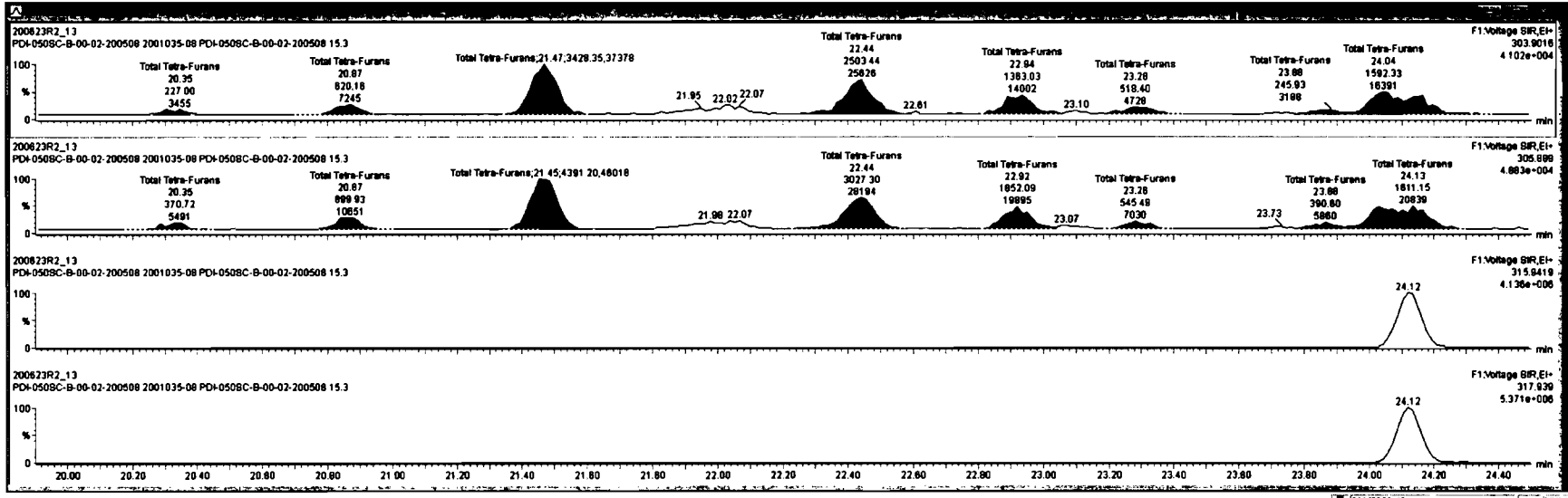
Item	Conc.	Unit	Method	Result	Unit	Method	Result
101	1st Func. Penta-Furans		0.8625	10.018	27.58		11.7
102	Total Penta-Furans		0.8625	10.018	28.27		32.3
103	Total Hexa-Furans		0.9241	10.018	33.56		43.1
104	Total Hepta-Furans		0.8734	10.018	37.83		134
105	PF11						0.914
106	PF12						134

Item	Conc.	Unit	Method	Result	Unit	Method	Result
1	Total Tetra-Furans		20.35	2.270e2	3.707e2	0.81	YES
2	Total Tetra-Furans		20.87	8.202e2	8.980e2	0.89	NO
3	Total Tetra-Furans		21.47	3.435e3	4.379e3	0.78	NO
4	Total Tetra-Furans		21.95	2.052e2	7.191e2	0.29	YES
5	Total Tetra-Furans		22.02	5.520e2	8.136e2	0.90	YES
6	Total Tetra-Furans		22.44	2.503e3	3.058e3	0.82	NO
7	Total Tetra-Furans		22.94	1.347e3	1.828e3	0.74	NO
8	Total Tetra-Furans		23.28	5.237e2	5.464e2	0.98	YES



RT	Area	Height	Width	Area%	Height%	Width%
21.95	117	0.0735	10.018	0.8625	27.36	11.7
22.02	32.3	0.257	10.018	0.8625	29.27	32.3
22.07	43.1	0.412	10.018	0.8625	33.96	43.1
23.10	134	0.914	10.018	0.8734	37.83	134

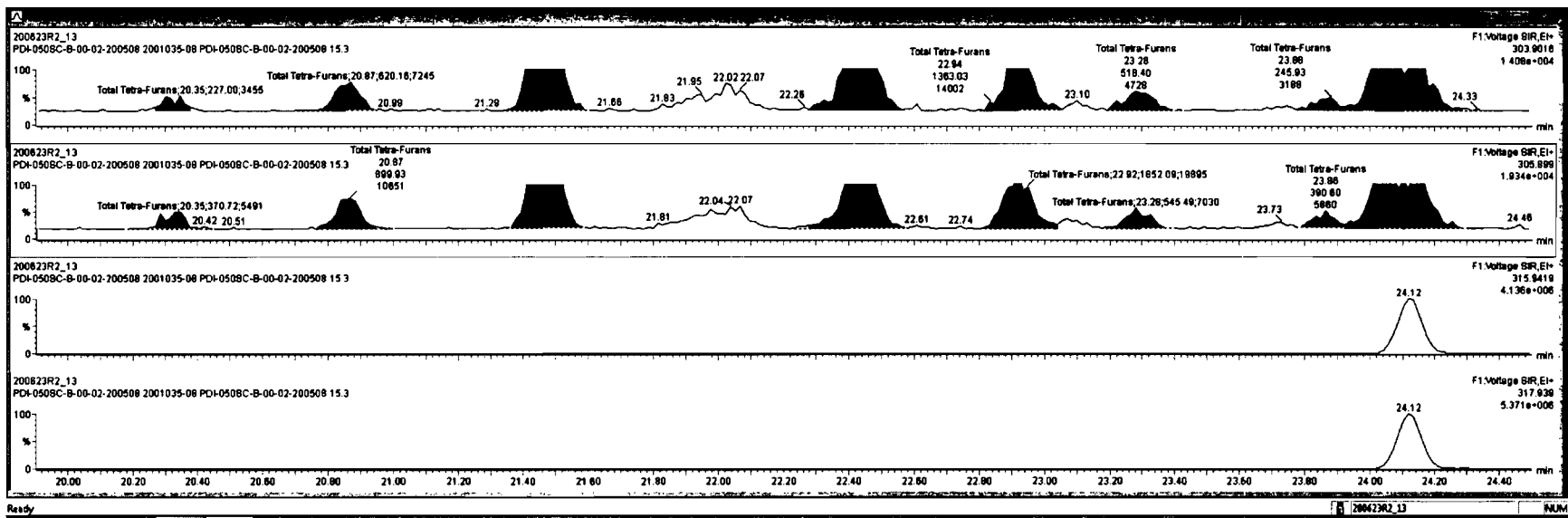
RT	Area	Height	Width	Area%	Height%	Width%
24.18	1.8809	1.8809	1.8809	0.72	NO	1.8809
24.98	8.4163	8.4163	7.0796	0.77	NO	8.4163
24.94	0.0000	0.39877	3.539e2	0.94	YES	0.39877
25.14	0.38636	0.38636	3.049e2	0.78	NO	0.38636
25.48	1.3441	1.3441	1.375e3	0.83	YES	1.3441
25.80	10.050	10.050	8.458e3	0.76	NO	10.050
25.88	0.95400	0.95400	8.119e2	0.75	NO	0.95400
27.81	1.7870	1.7870	1.512e3	0.85	YES	1.7870





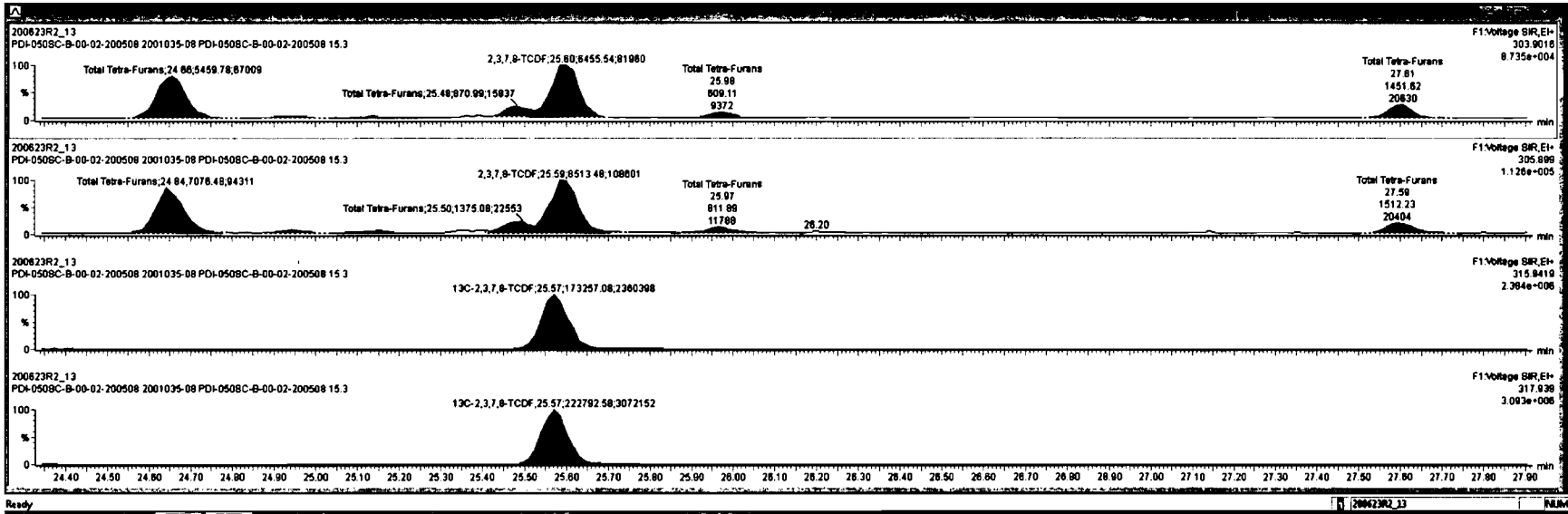
Item	Name	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	
44	1st Func. Peris-Furans				0.8825	10.016	27.58		11.7	0.0735	11.7
45	Total Peris-Furans				0.8825	10.016	28.27		32.3	0.257	32.9
46	Total Meiso-Furans				0.9341	10.016	33.56		43.1	0.412	44.4
47	Total Hepta-Furans				0.8734	10.016	37.83		134	0.914	134
48	PPX1										
49	PPX2										

Item	Name	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
50	Total Tetra-Furans	24.18	1.181e3	1.811e3	0.72	NO	1.8808	1.8808		
51	Total Tetra-Furans	24.88	5.480e3	7.078e3	0.77	NO	8.4183	8.4183		
52	Total Tetra-Furans	24.94	3.123e2	3.338e2	0.94	YES	0.38877	0.00000		
53	Total Tetra-Furans	25.14	2.383e2	3.048e2	0.78	NO	0.38835	0.38835		
54	Total Tetra-Furans	25.48	8.710e2	1.375e3	0.83	YES	1.3441	0.00000		
55	2,3,7,8-TCDF	25.80	8.458e3	8.513e3	0.78	NO	10.050	10.050		
56	Total Tetra-Furans	25.88	8.081e2	8.118e2	0.75	NO	0.85400	0.95400		
57	Total Tetra-Furans	27.81	1.452e3	1.512e3	0.88	YES	1.7870	0.00000		



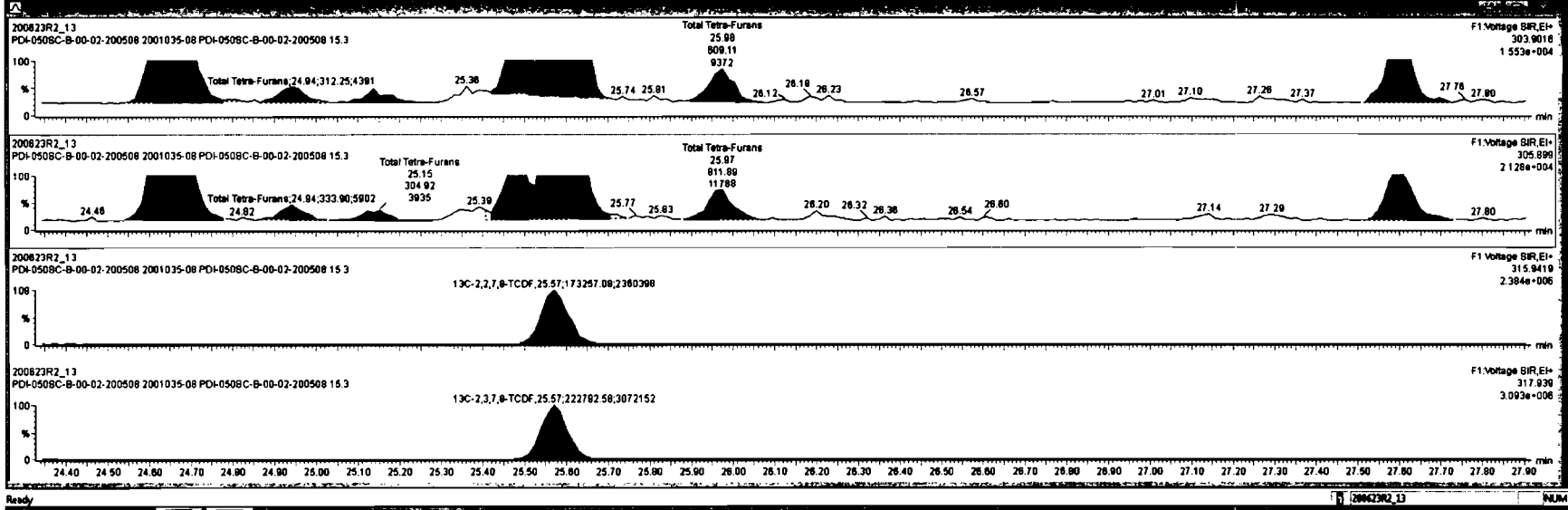
RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
46	1st Func. Para-Furane			0.9625	10.016	27.58				11.7	0.0735	11.7
47	Total Para-Furane			0.9625	10.016	28.27				32.3	0.257	32.9
48	Total Hexa-Furane			0.9341	10.016	33.58				43.1	0.412	44.4
49	Total Hepta-Furane			0.8734	10.016	37.83				134	0.914	134
49	PPK1											
49	PPK2											

RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
47	Total Tetra-Furane	24.16	1.191e3	1.811e3	0.72	NO	1.8808	1.8608				
48	Total Tetra-Furane	24.86	5.480e3	7.079e3	0.77	NO	8.4183	8.4183				
49	Total Tetra-Furane	24.94	3.123e2	3.339e2	0.94	YES	0.39877	0.00000				
49	Total Tetra-Furane	25.14	2.363e2	3.049e2	0.78	NO	0.39636	0.39636				
49	Total Tetra-Furane	25.48	8.710e2	1.375e3	0.83	YES	1.3441	0.00000				
49	2,3,7,8-TCDF	25.80	8.458e3	8.513e3	0.78	NO	10.050	10.050				
49	Total Tetra-Furane	25.98	8.081e2	8.119e2	0.75	NO	0.95400	0.95400				
49	Total Tetra-Furane	27.81	1.452e3	1.512e3	0.98	YES	1.7870	0.00000				



RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
46	1st Func: Penta-Furane			0.8625	10.016	27.56				11.7	0.0735	11.7
46	Total Penta-Furane			0.8625	10.016	29.27				32.3	0.257	32.9
46	Total Hexa-Furane			0.8341	10.016	33.35				43.1	0.412	44.4
47	Total Hepta-Furane			0.8734	10.016	37.83				134	0.914	134
48	PK1											
48	PK2											

RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
8	Total Tetra-Furane	24.16	1.191e3	1.811e3	0.72	NO	1.8808	1.8808				
18	Total Tetra-Furane	24.88	5.480e3	7.079e3	0.77	NO	8.4183	8.4183				
97	Total Tetra-Furane	24.94	3.123e2	3.339e2	0.94	YES	0.39877	0.00000				
12	Total Tetra-Furane	25.14	2.363e2	3.049e2	0.78	NO	0.38535	0.38535				
93	Total Tetra-Furane	25.48	8.710e2	1.375e3	0.83	YES	1.3441	0.00000				
64	2,2,7,8-TCDF	25.80	8.458e3	8.513e3	0.78	NO	10.050	10.050				
18	Total Tetra-Furane	25.98	8.091e2	8.119e2	0.75	NO	0.85400	0.85400				
98	Total Tetra-Furane	27.81	1.452e3	1.512e3	0.98	YES	1.7870	0.00000				



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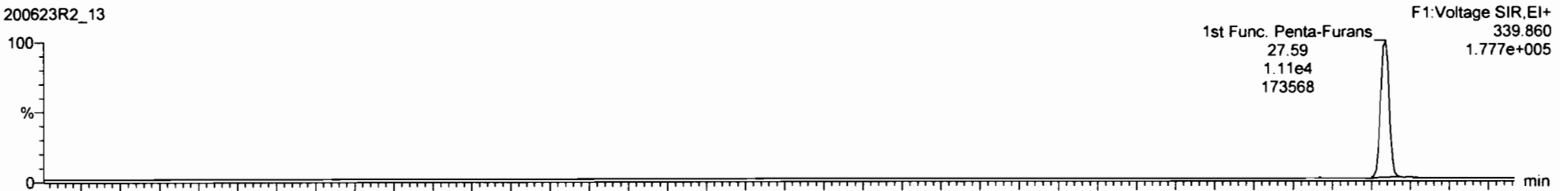
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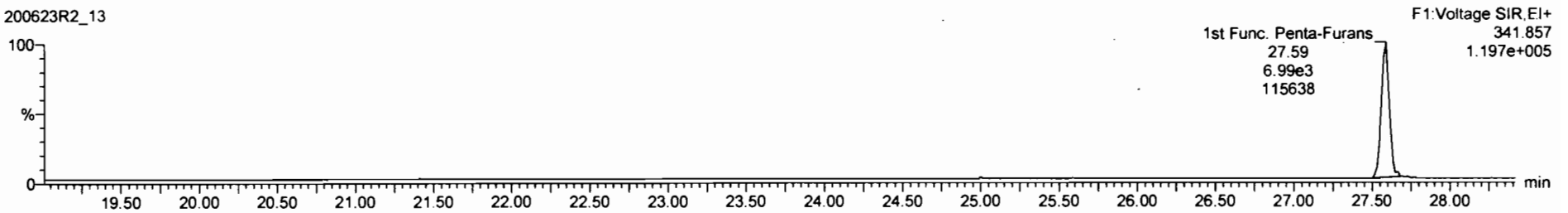
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1st Func. Penta-Furans

200623R2_13

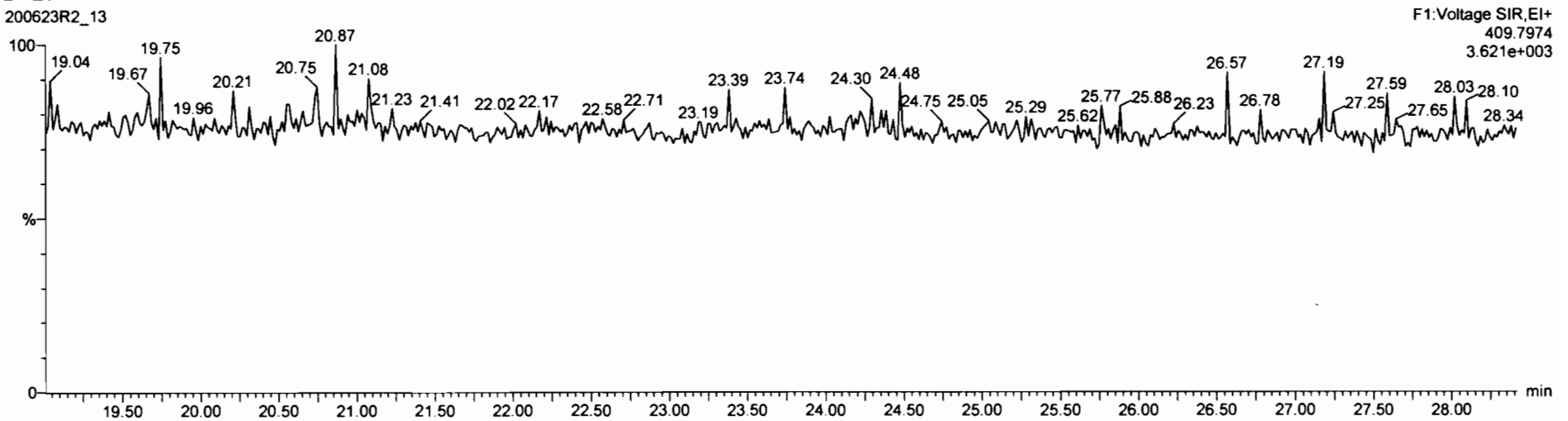


200623R2_13



DPE6

200623R2_13



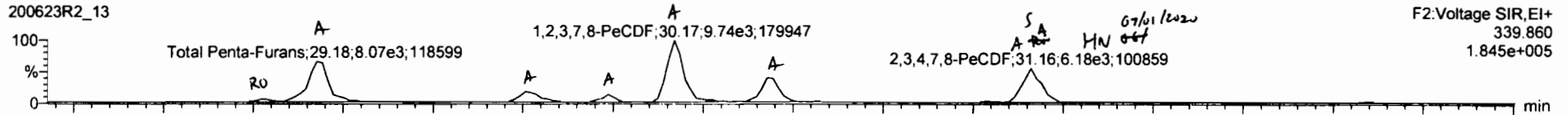
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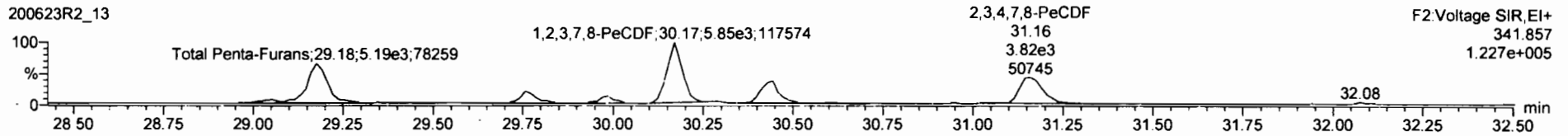
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1,2,3,7,8-PeCDF

200623R2_13

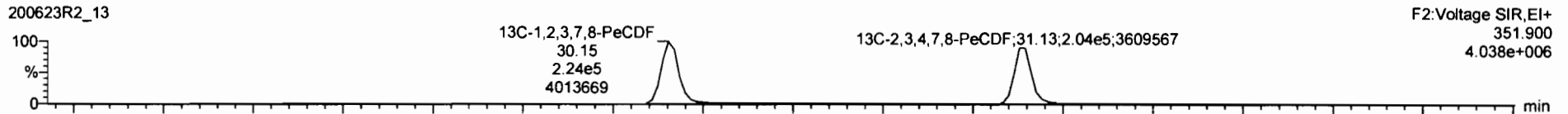


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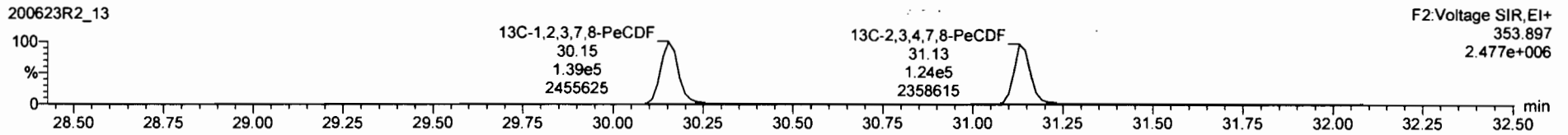


13C-1,2,3,7,8-PeCDF

200623R2_13

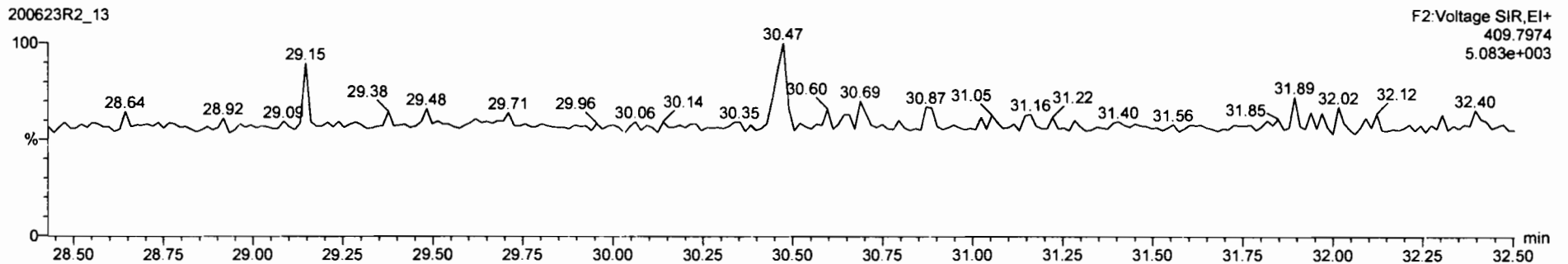


200623R2_13



DPE2

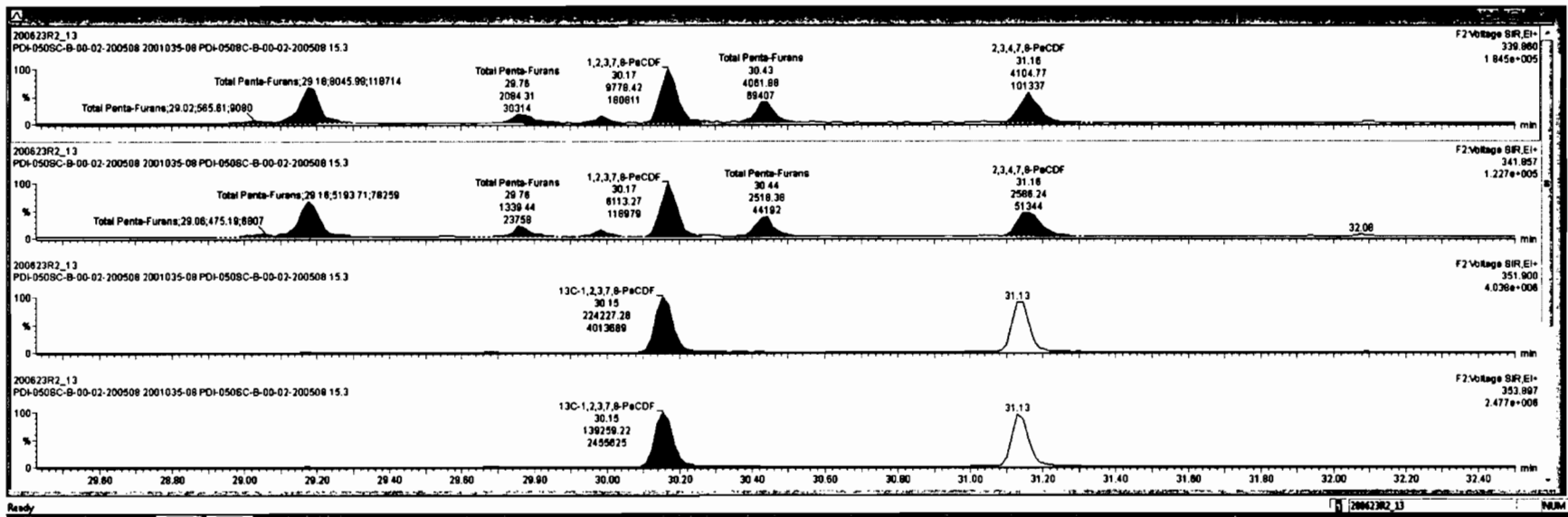
200623R2_13





Peak	Compound	Area	Height	Width	Retention	Integration	Integration	Integration	Integration	Integration
48	Total Tetra-Furans	0.7510	10.016	23.81		36.2		0.265	41.1	
64	1st Func: Penta-Furans	0.6625	10.016	27.58		11.7		0.0735	11.7	
49	Total Hexa-Furans	0.9341	10.016	33.56		43.1		0.412	44.4	
65	Total Hepta-Furans	0.8734	10.016	37.83		134		0.814	134	
49	PK1									
49	PK2									

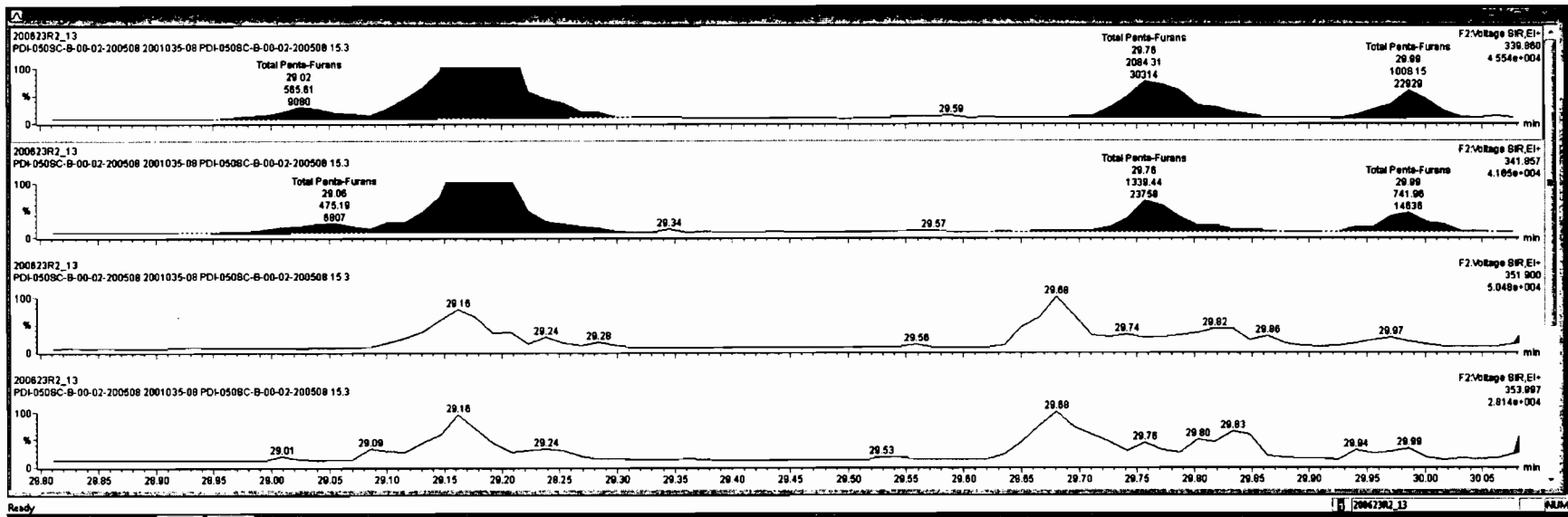
Peak	Compound	Area	Height	Width	Retention	Integration	Integration	Integration	Integration	Integration
1	Total Penta-Furans	29.02	5.856e2	4.752e2	1.19	YES	0.80240	0.00000		
2	Total Penta-Furans	29.16	8.046e3	5.194e3	1.55	NO	8.5712	8.5712		
3	Total Penta-Furans	29.76	2.084e3	1.338e3	1.58	NO	2.2185	2.2185		
4	Total Penta-Furans	29.80	1.008e3	7.420e2	1.38	NO	1.1330	1.1330		
5	1,2,3,7,8-PeCDF	30.17	9.778e3	8.113e3	1.80	NO	9.7811	9.7811		
6	Total Penta-Furans	30.43	4.062e3	2.510e3	1.81	NO	4.2800	4.2800		
7	2,3,4,7,8-PeCDF	31.16	4.105e3	2.988e3	1.59	NO	4.3620	4.3620		
8	Total Penta-Furans	31.16	2.108e3	1.373e3	1.54	NO	2.2541	2.2541		





RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	
43	Total Tetra-Furans			0.7510	10.016	23.81				38.2		0.285	41.1
44	1st Func. Penta-Furans			0.8825	10.016	27.58				11.7		0.0735	11.7
45	Total Hexa-Furans			0.8341	10.016	33.58				43.1		0.412	44.4
47	Total Hepta-Furans			0.8734	10.016	37.83				134		0.914	134
48	PPX1												
49	PPX2												

Name	RT	Int. Resp.	Std. Dev.	Area	Height	Width	Area%	Height%	Width%
1 Total Penta-Furans	29.02	5.859e2	4.752e2	1.19	YES	0.80240	0.00000		
2 Total Penta-Furans	29.18	8.046e3	5.194e3	1.55	NO	8.5712	8.5712		
3 Total Penta-Furans	29.76	2.084e3	1.339e3	1.58	NO	2.2185	2.2185		
4 Total Penta-Furans	29.80	1.009e3	7.420e2	1.38	NO	1.1330	1.1330		
6 1,2,3,7,β-PeCDF	30.17	9.778e3	6.113e3	1.80	NO	9.7811	9.7811		
8 Total Penta-Furans	30.43	4.082e3	2.518e3	1.81	NO	4.2800	4.2800		
7 2,3,4,7,β-PeCDF	31.18	4.105e3	2.588e3	1.59	NO	4.3820	4.3820		
9 Total Penta-Furans	31.18	2.108e3	1.373e3	1.54	NO	2.2541	2.2541		



Dataset: Untitled

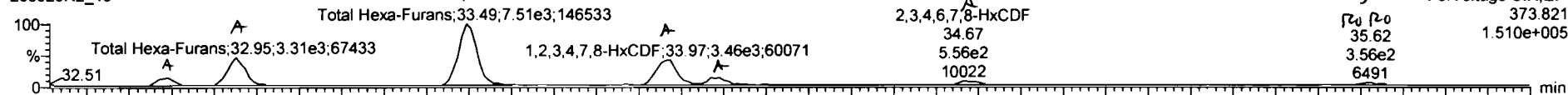
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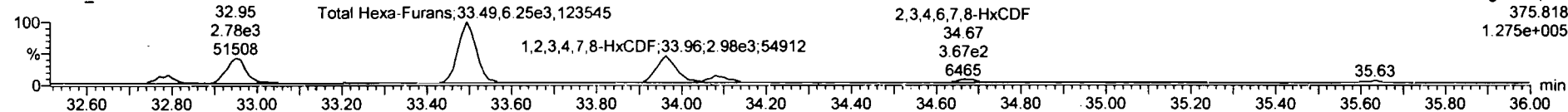
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1,2,3,4,7,8-HxCDF

200623R2_13

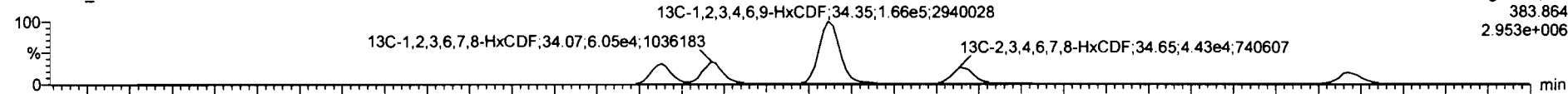


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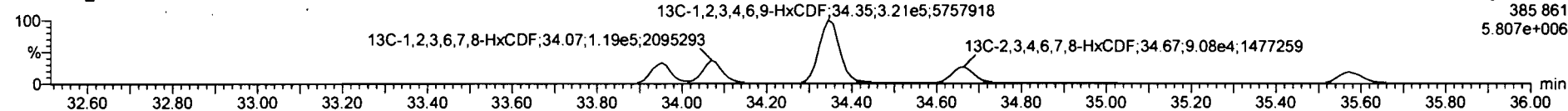


13C-1,2,3,4,7,8-HxCDF

200623R2_13

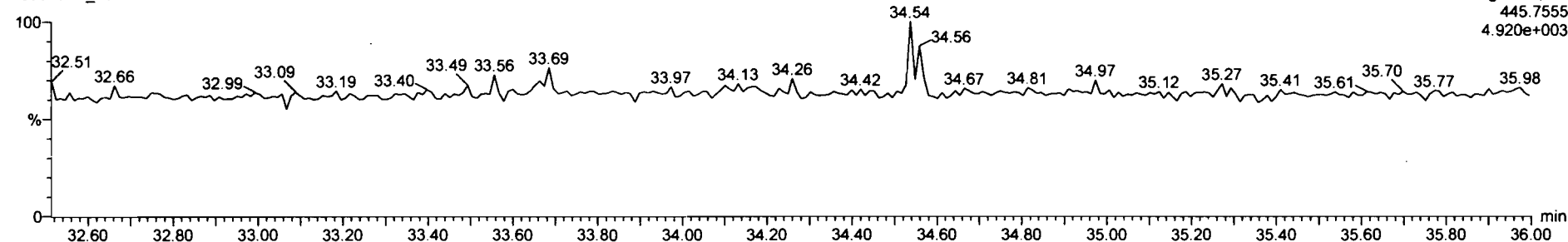


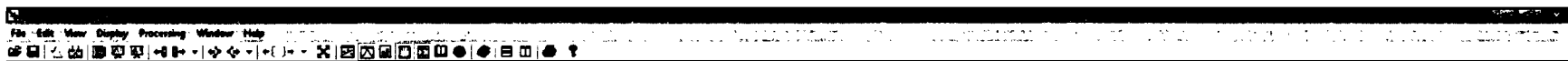
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DPE3

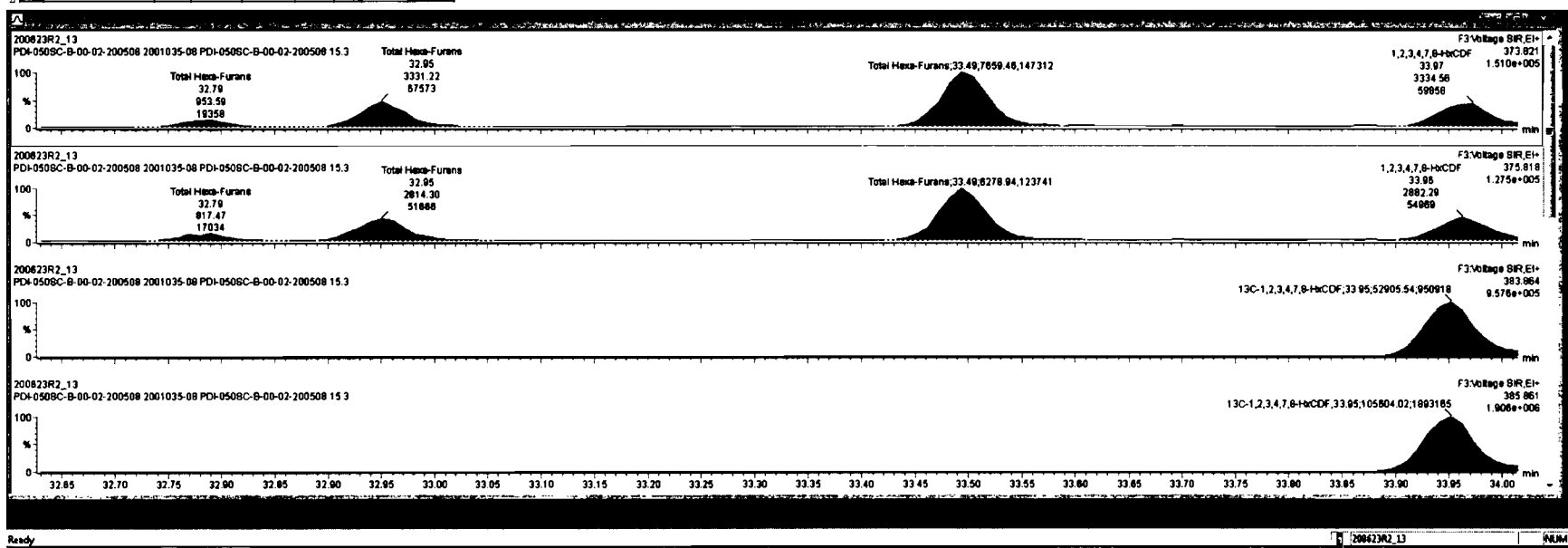
200623R2_13





Peak	Retention Time (min)	Area	Height	Width	Height/Width	Area/Width	Area/Height	Area/Width/Height	Area/Width/Height	Area/Width/Height	
287	13C-1,2,3,4,7,8-HxCDF	1.50e5	0.50	NO	1.0075	10.016	33.95	0.988	84.5	32.3	0.510
288	13C-1,2,3,6,7,8-HxCDF	1.80e5	0.51	NO	1.1870	10.016	34.08	0.982	85.2	31.6	0.440
289	13C-2,3,4,6,7,8-HxCDF	1.35e5	0.49	NO	1.0218	10.016	34.86	1.008	54.2	27.2	0.503
290	13C-1,2,3,7,8-HxCDF	1.08e5	0.48	NO	0.8595	10.016	35.58	0.938	82.2	28.1	0.588
291	13C-1,2,3,4,6,7,8-HxCDF	9.11e4	0.42	NO	0.7745	10.016	37.31	1.087	48.2	24.2	0.283
292	13C-1,2,3,4,7,8-HxCDF	4.81e4	0.40	NO	0.5210	10.016	38.34	1.145	37.6	18.9	0.435
293	13C-OCDF	1.03e5	0.88	NO	0.7457	10.016	41.83	1.222	96.5	14.1	0.239

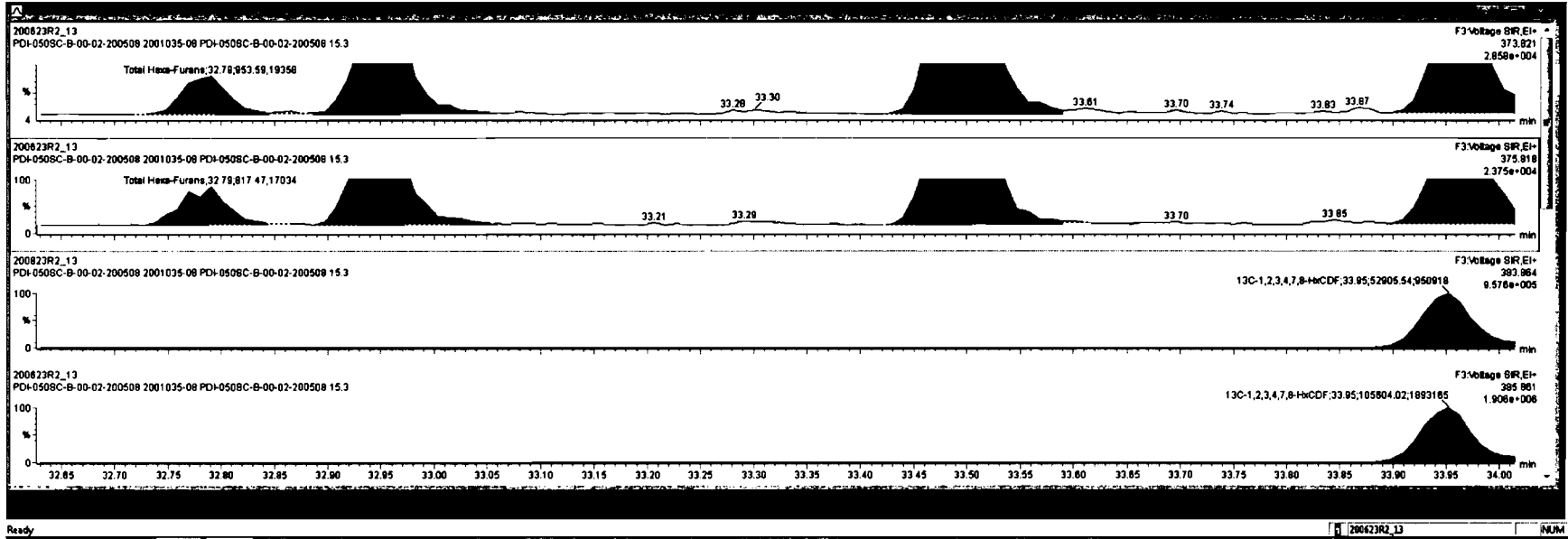
Peak	Retention Time (min)	Area	Height	Width	Height/Width	Area/Width	Area/Height	Area/Width/Height	Area/Width/Height	Area/Width/Height
3	Total Hexa-Furans	32.79	8.52e2	6.175e2	1.17	NO	2.5880	2.5880		
4	Total Hexa-Furans	32.85	3.331e3	2.814e3	1.18	NO	9.0151	9.0151		
5	Total Hexa-Furans	33.49	7.859e3	8.278e3	1.22	NO	20.447	20.447		
6	1,2,3,4,7,8-HxCDF	33.97	3.335e3	2.882e3	1.18	NO	6.9548	6.9548		
7	1,2,3,6,7,8-HxCDF	34.07	1.105e3	8.882e2	1.27	NO	2.4883	2.4883		
8	2,3,4,6,7,8-HxCDF	34.67	5.424e2	3.879e2	1.36	NO	1.4873	1.4873		





Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration	Integration	Integration	Integration	
28	13C-1,2,3,4,7,8-HxCDF	1.59e5	0.50	NO	1.0075	10.016	33.85	33.85	0.889	84.5	32.3	0.510
29	13C-1,2,3,6,7,8-HxCDF	1.80e5	0.51	NO	1.1870	10.016	34.08	34.07	0.882	83.2	31.8	0.440
30	13C-2,3,4,6,7,8-HxCDF	1.35e5	0.48	NO	1.0218	10.016	34.88	34.85	1.009	54.2	27.2	0.503
31	13C-1,2,3,7,8-HxCDF	1.09e5	0.48	NO	0.8695	10.016	35.58	35.57	1.036	52.2	26.1	0.589
32	13C-1,2,3,4,6,7,8-HxCDF	9.11e4	0.42	NO	0.7745	10.016	37.31	37.35	1.087	48.2	24.2	0.283
33	13C-1,2,3,4,7,8-HxCDF	4.81e4	0.40	NO	0.5210	10.016	38.34	38.32	1.145	37.8	18.9	0.435
34	13C-OCDF	1.03e5	0.88	NO	0.7457	10.016	41.83	41.88	1.222	56.5	14.1	0.258

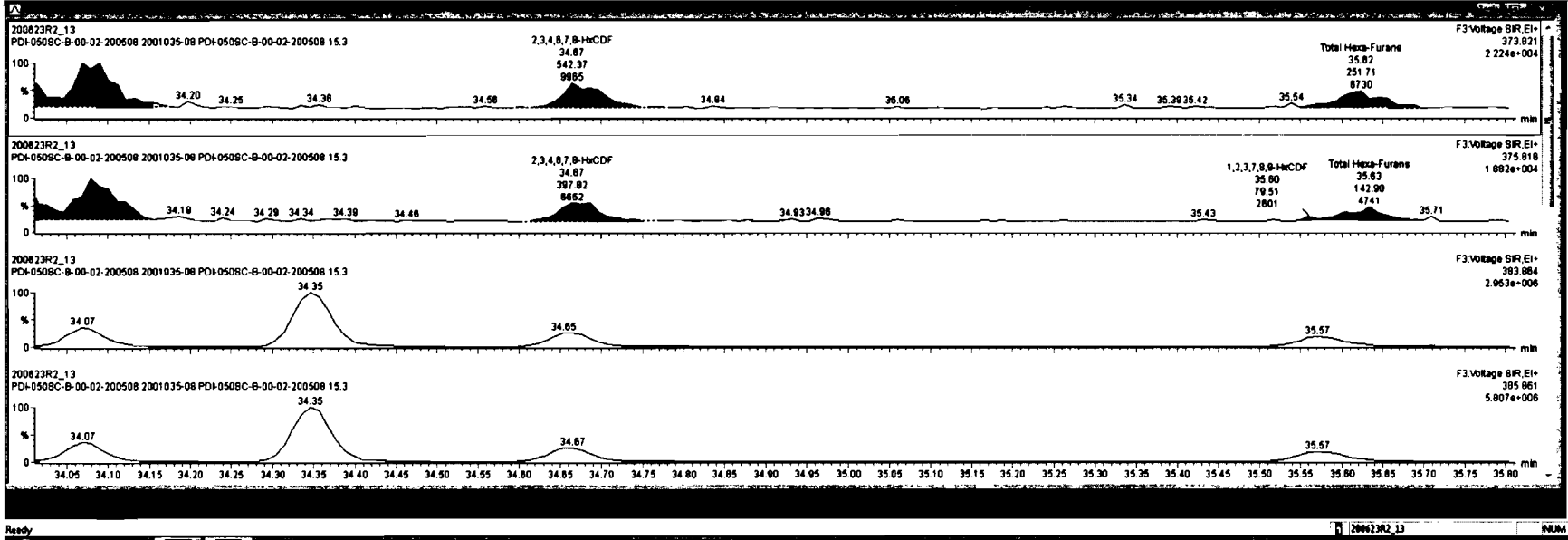
Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration	Integration	Integration
1	Total Hexa-Furans	32.78	8.539e2	8.175e2	1.17	NO	2.5880	2.5880		
2	Total Hexa-Furans	32.95	3.331e3	2.814e3	1.18	NO	8.0191	8.0191		
3	Total Hexa-Furans	33.49	7.859e3	6.279e3	1.22	NO	20.447	20.447		
4	1,2,3,4,7,8-HxCDF	33.87	3.335e3	2.882e3	1.18	NO	8.8646	8.8646		
6	1,2,3,6,7,8-HxCDF	34.07	1.105e3	8.882e2	1.27	NO	2.4883	2.4883		
8	2,3,4,6,7,8-HxCDF	34.87	5.424e2	3.878e2	1.38	NO	1.4873	1.4873		





Peak	Name	Area	Height	Width	Retention	Integration	Response	Concentration	Response	Concentration
28	1,2,3,4,7,8-HxCDF	1.59e5	0.50	NO	1.0075	10.018	33.86	33.86	0.999	84.5
29	1,2,3,4,7,8-HxCDF	1.89e5	0.51	NO	1.1670	10.018	34.06	34.07	0.992	63.2
30	1,2,3,4,7,8-HxCDF	1.35e5	0.48	NO	1.0219	10.018	34.86	34.85	1.009	54.2
31	1,2,3,4,7,8-HxCDF	1.09e5	0.48	NO	0.8695	10.018	35.59	35.57	1.038	42.2
32	1,2,3,4,7,8-HxCDF	9.11e4	0.42	NO	0.7745	10.018	37.31	37.25	1.087	48.2
33	1,2,3,4,7,8-HxCDF	4.81e4	0.40	NO	0.5210	10.018	38.34	38.32	1.145	37.8
34	1,2,3,4,7,8-HxCDF	1.03e5	0.88	NO	0.7457	10.018	41.83	41.88	1.222	58.5

Peak	Name	Area	Height	Width	Retention	Integration	Response	Concentration
7	Total Hexa-Furans	32.79	9.530e2	8.175e2	1.17	NO	2.5980	2.5980
8	Total Hexa-Furans	32.95	3.331e3	2.814e3	1.18	NO	9.0151	9.0151
9	Total Hexa-Furans	33.49	7.659e3	6.279e3	1.22	NO	20.447	20.447
4	1,2,3,4,7,8-HxCDF	33.87	3.335e3	2.882e3	1.18	NO	8.8648	8.8648
6	1,2,3,4,7,8-HxCDF	34.07	1.105e3	8.882e2	1.27	NO	2.4883	2.4883
8	2,3,4,6,7,8-HxCDF	34.67	5.424e2	3.876e2	1.36	NO	1.4873	1.4873

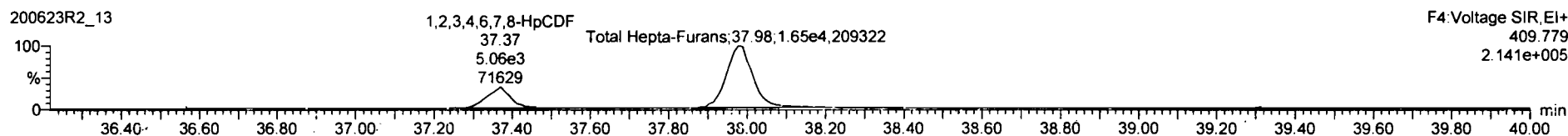
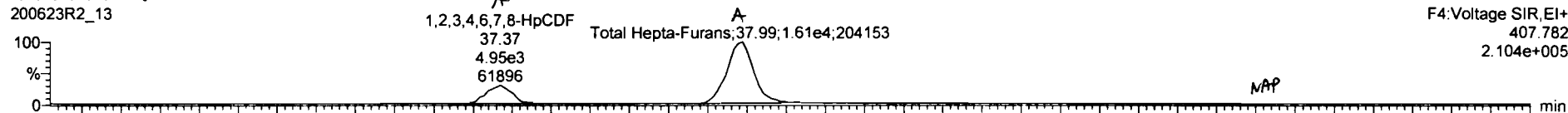


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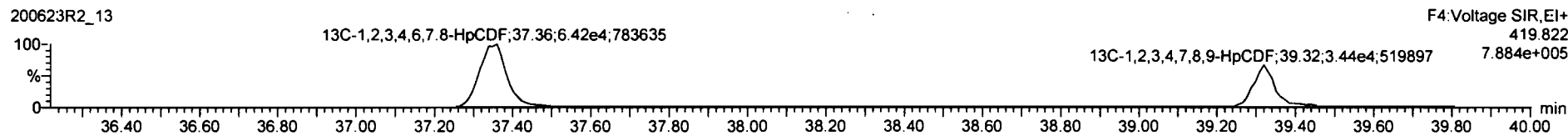
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

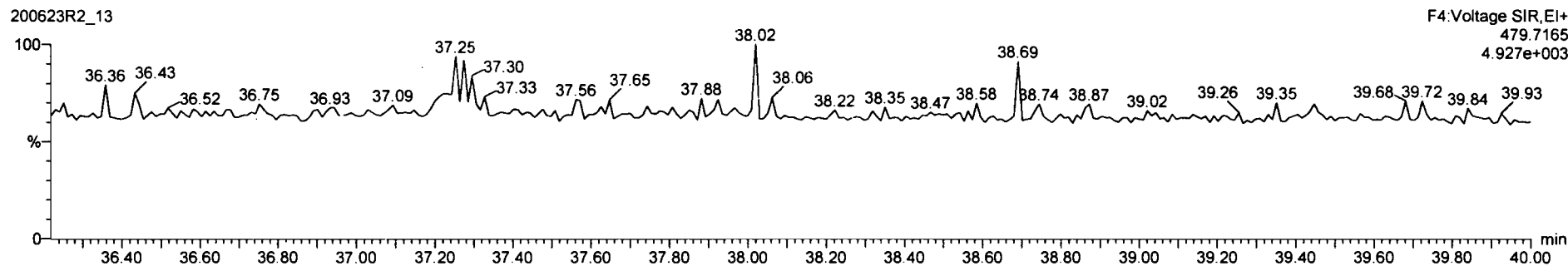
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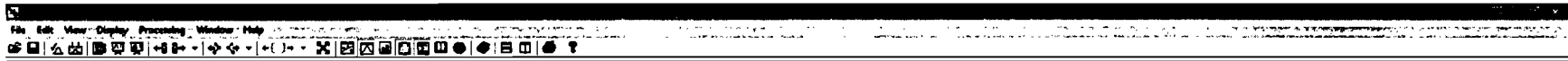


13C-1,2,3,4,6,7,8-HpCDF



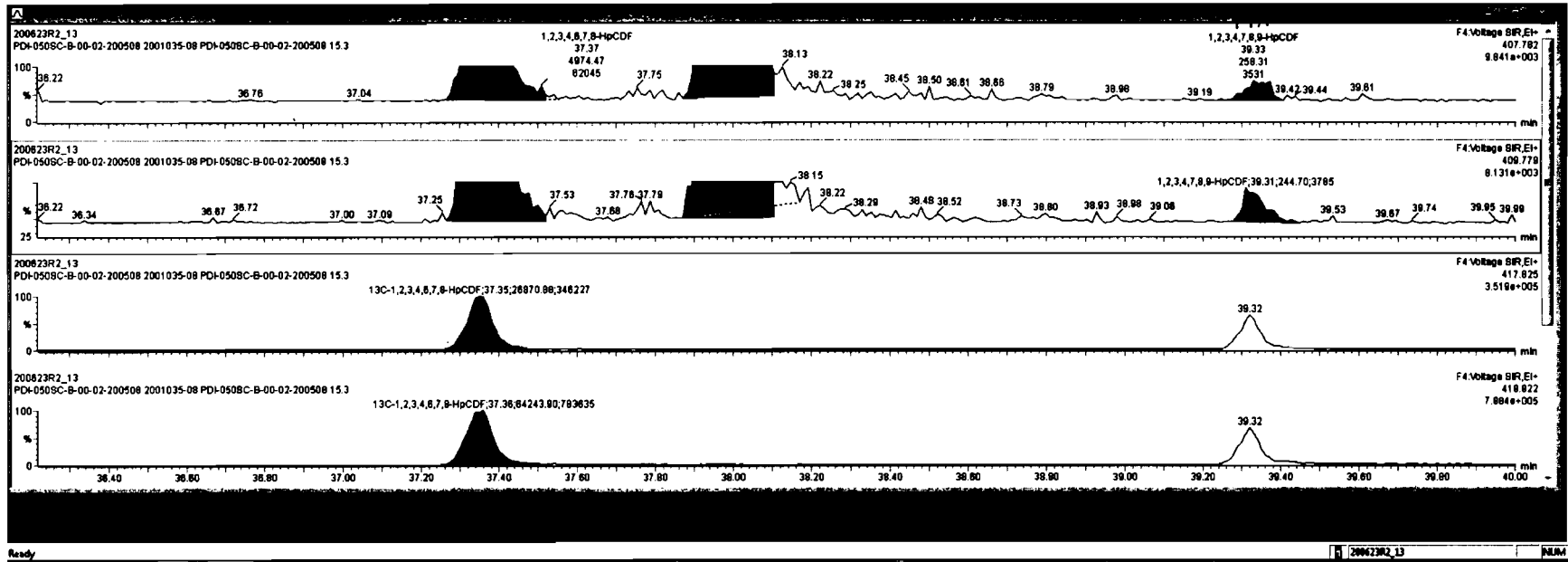
DPE4





PK1	PK2	PK3	PK4	PK5	PK6	PK7	PK8	PK9	PK10	PK11	PK12

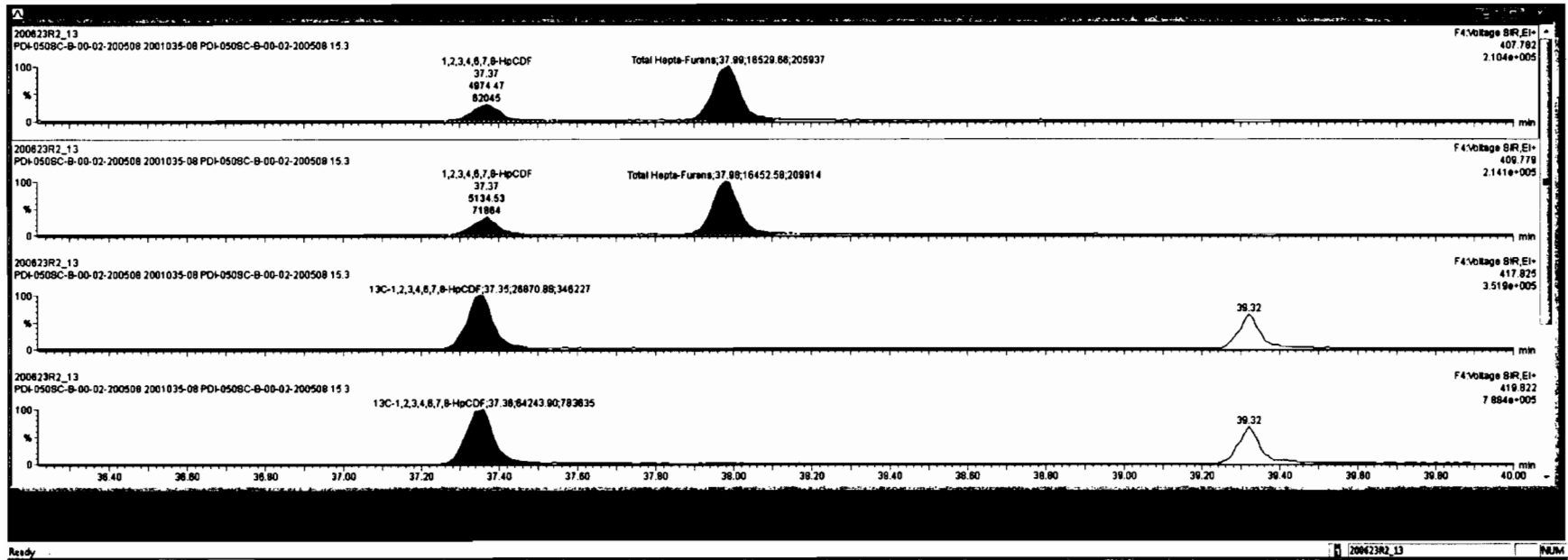
Area	Height	Ret. Time	Peak ID	Label	Area	Height	Ret. Time	Peak ID	Label
1,2,3,4,6,7,8-HpCDF	37.37	4.874e3	5.085e3	0.20	NO	25.188	25.188		
Total Hepta-Furans	37.80	1.853e4	1.831e4	1.01	NO	107.80	107.80		
1,2,3,4,7,8-HpCDF	39.33	2.583e2	2.447e2	1.08	NO	2.0635	2.0635		





PK1	PK2	PK3	PK4	PK5	PK6	PK7	PK8	PK9	PK10

1	2,3,4,6,7,8-HpCDF	37.37	4.874e3	5.135e3	0.97	NO	25.365	25.365
2	Total Hepta-Furans	37.88	1.853e4	1.845e4	1.00	NO	108.36	108.36

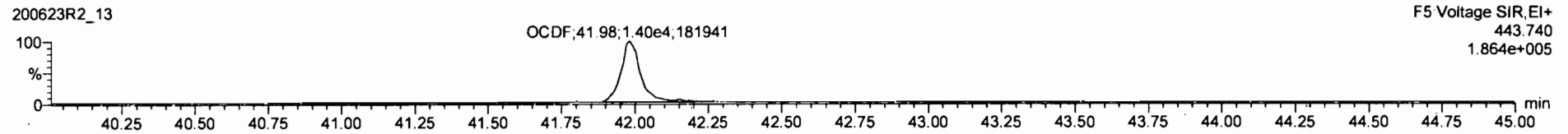
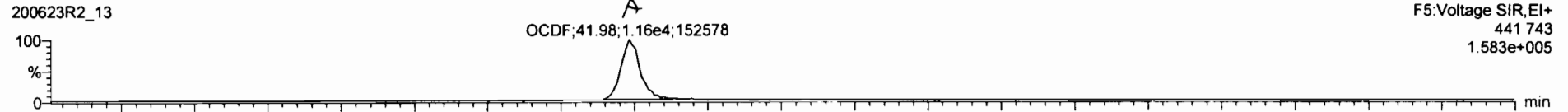


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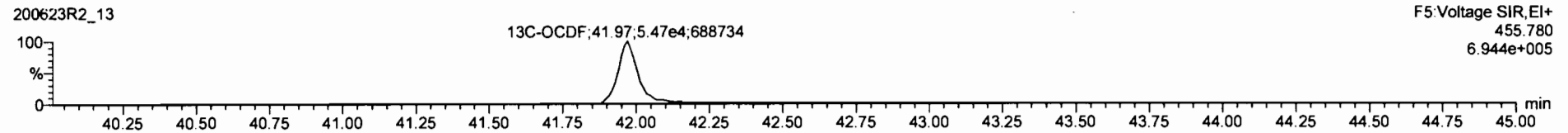
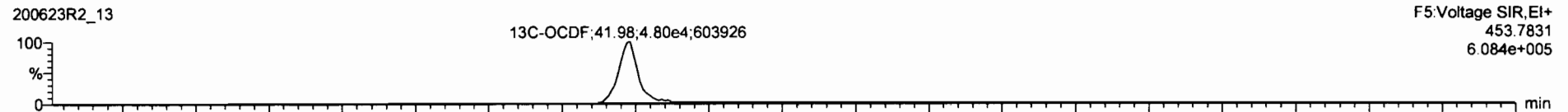
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Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

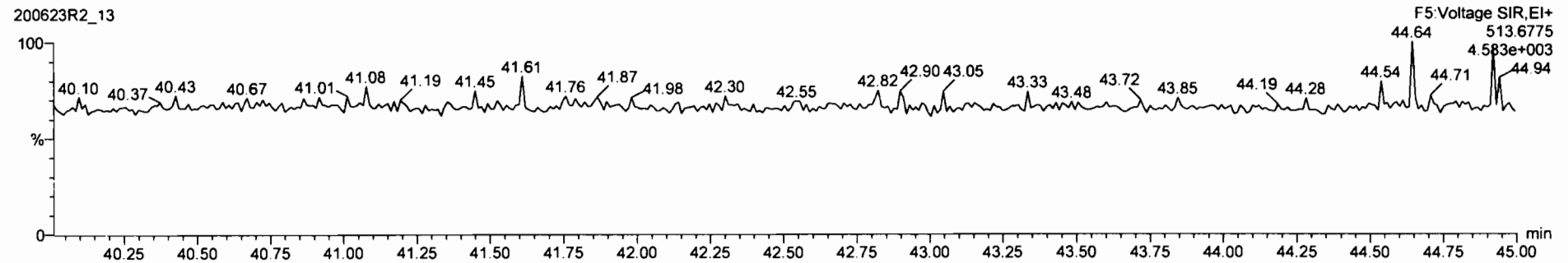
OCDF



13C-OCDF



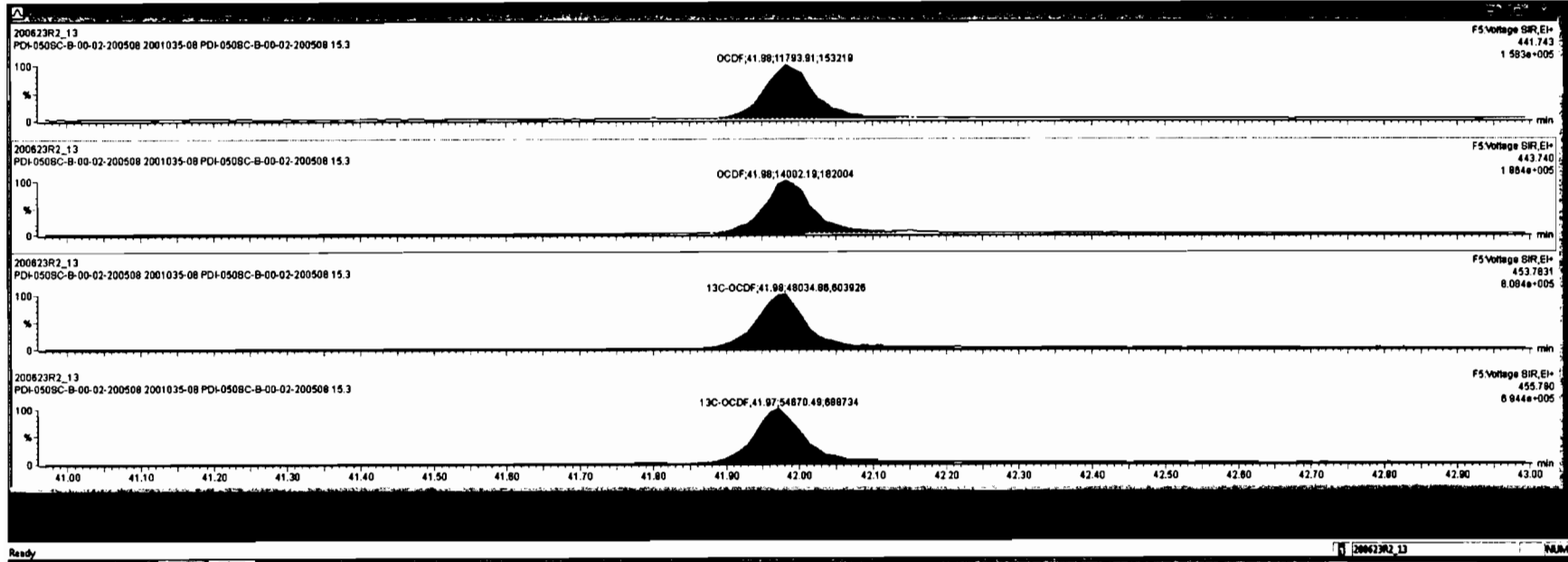
DPE5





ID	Chemical Name	Concentration	Response	Method	Peak 1	Peak 2	Peak 3	Peak 4	Peak 5	Peak 6	Peak 7	Peak 8	Peak 9	Peak 10	Peak 11	Peak 12	Peak 13	Peak 14	Peak 15	
17	13C-2,3,7,8-TCDD	3.48e5	0.78	NO	1.1953	10.016	28.48	28.47	1.028	112	98.1	0.223								
18	13C-1,2,3,7,8-PeCDD	2.34e5	0.80	NO	0.8490	10.016	31.87	31.43	1.218	102	91.2	0.317								
20	13C-1,2,3,4,7,8-HxCDD	1.23e5	1.30	NO	0.7790	10.016	34.83	34.83	1.014	85.0	32.5	0.399								
21	13C-1,2,3,6,7,8-HxCDD	1.56e5	1.18	NO	1.0167	10.016	34.94	34.93	1.017	82.4	31.2	0.297								
22	13C-1,2,3,7,8-HxCDD	1.21e5	1.15	NO	0.9027	10.016	35.21	35.22	1.025	85.0	27.8	0.335								
23	13C-1,2,3,4,6,7,8-HpCDD	8.12e4	1.00	NO	0.8992	10.016	38.74	38.78	1.129	48.3	24.2	0.242								

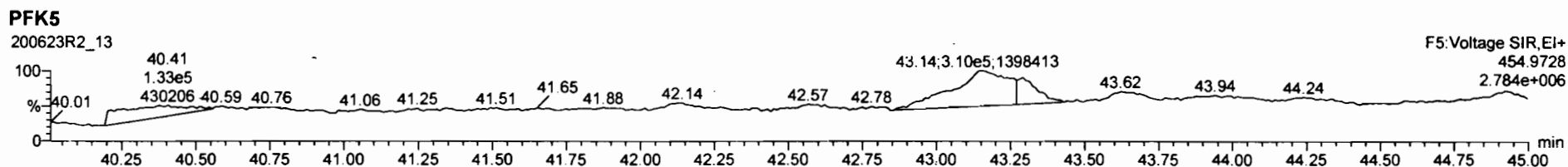
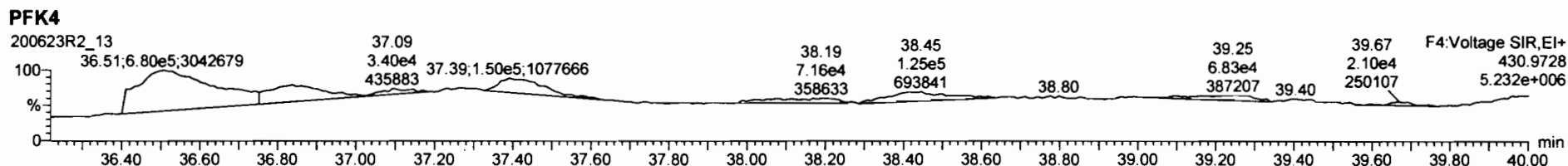
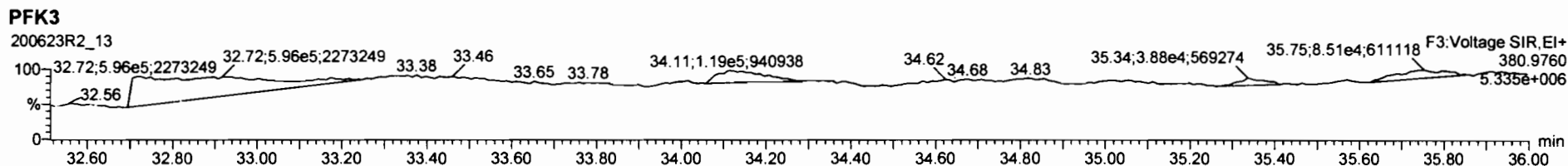
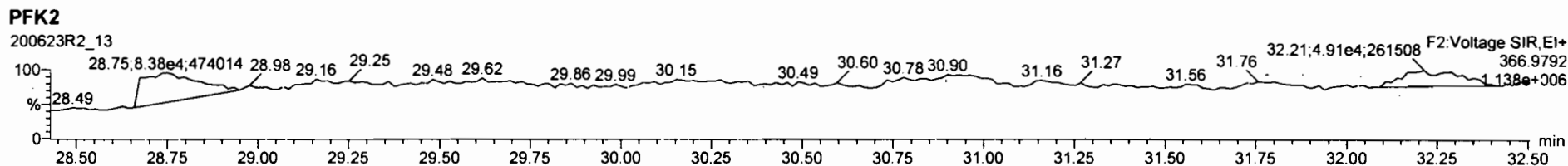
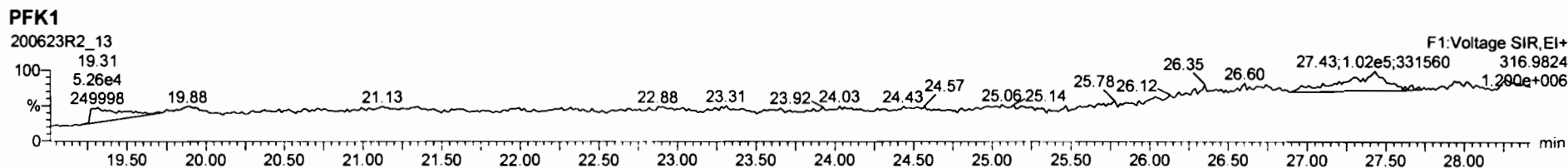
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1								



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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_13, Date: 24-Jun-2020, Time: 00:19:51, ID: 2001035-08 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-14C.qld

Last Altered: Friday, July 17, 2020 9:49:54 AM Pacific Daylight Time
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HN 07/17/2020

C7 07/17/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

Name	Resp	RA	n/y	RRF	w/AI	Pre-RT	Post-RT	RRR1	RRR2	RRR3	RRR4	RRR5	RRR6	
1 2,3,7,8-TCDD			NO	0.888	10.107	26.515		1.001					0.0821	
2 1,2,3,7,8-PeCDD			NO	0.908	10.107	31.473		1.001					0.112	
3 1,2,3,4,7,8-HxCDD			NO	1.03	10.107	34.846		1.000					0.115	
4 1,2,3,6,7,8-HxCDD			NO	0.892	10.107	34.932		1.000					0.115	
5 1,2,3,7,8,9-HxCDD			NO	0.887	10.107	35.230		1.000					0.129	
6 1,2,3,4,6,7,8-HpCDD	2.14e3	0.94	NO	0.864	10.107	38.778	38.79	1.000	1.001	1.7568			0.173	1.76
7 OCDD	1.42e4	0.83	NO	0.914	10.107	41.780	41.78	1.000	1.000	14.978			0.237	15.0
8 2,3,7,8-TCDF			NO	0.751	10.107	25.612		1.001					0.0468	
9 1,2,3,7,8-PeCDF			NO	0.893	10.107	30.190		1.001					0.0334	
10 2,3,4,7,8-PeCDF			NO	0.935	10.107	31.176		1.001					0.0303	
11 1,2,3,4,7,8-HxCDF			NO	0.884	10.107	33.952		1.000					0.0398	
12 1,2,3,6,7,8-HxCDF			NO	0.889	10.107	34.089		1.000					0.0359	
13 2,3,4,6,7,8-HxCDF			NO	0.934	10.107	34.700		1.001					0.0386	
14 1,2,3,7,8,9-HxCDF			NO	0.871	10.107	35.581		1.000					0.0619	
15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.107	37.397		1.001					0.0643	
16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.107	39.320		1.000					0.0782	
17 OCDF			NO	0.806	10.107	41.972		1.000					0.127	
18 13C-2,3,7,8-TCDD	6.64e5	0.76	NO	1.16	10.107	26.507	26.48	1.026	1.025	190.75	96.4		0.279	
19 13C-1,2,3,7,8-PeCDD	6.27e5	0.64	NO	0.849	10.107	31.692	31.45	1.227	1.218	245.28	124		0.424	
20 13C-1,2,3,4,7,8-HxCDD	3.78e5	1.28	NO	0.779	10.107	34.840	34.84	1.014	1.014	166.30	84.0		0.436	
21 13C-1,2,3,6,7,8-HxCDD	5.03e5	1.28	NO	1.02	10.107	34.954	34.93	1.017	1.017	169.63	85.7		0.334	
22 13C-1,2,3,7,8,9-HxCDD	4.48e5	1.22	NO	0.903	10.107	35.225	35.22	1.025	1.025	170.04	85.9		0.376	
23 13C-1,2,3,4,6,7,8-HpCDD	2.78e5	1.08	NO	0.689	10.107	38.750	38.77	1.128	1.128	138.49	70.0		0.450	
24 13C-OCDD	4.11e5	0.88	NO	0.652	10.107	41.773	41.78	1.216	1.216	216.12	54.6		0.491	
25 13C-2,3,7,8-TCDF	8.23e5	0.78	NO	1.06	10.107	25.549	25.59	0.989	0.991	171.22	86.5		0.324	
26 13C-1,2,3,7,8-PeCDF	9.34e5	1.58	NO	0.838	10.107	30.076	30.17	1.165	1.168	245.56	124		0.756	
27 13C-2,3,4,7,8-PeCDF	9.10e5	1.59	NO	0.817	10.107	31.029	31.15	1.202	1.206	245.35	124		0.776	
28 13C-1,2,3,4,7,8-HxCDF	5.11e5	0.50	NO	1.01	10.107	33.971	33.95	0.989	0.988	173.78	87.8		0.637	
29 13C-1,2,3,6,7,8-HxCDF	6.07e5	0.52	NO	1.17	10.107	34.095	34.08	0.992	0.992	178.31	90.1		0.550	
30 13C-2,3,4,6,7,8-HxCDF	5.19e5	0.51	NO	1.02	10.107	34.669	34.67	1.009	1.009	174.12	88.0		0.628	
31 13C-1,2,3,7,8,9-HxCDF	4.22e5	0.48	NO	0.860	10.107	35.569	35.58	1.035	1.036	168.37	85.1		0.747	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-14C.qld

Last Altered: Friday, July 17, 2020 9:49:54 AM Pacific Daylight Time

Printed: Friday, July 17, 2020 9:51:22 AM Pacific Daylight Time

Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

Comp	PA	ny	Ref	MVD	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF
32 13C-1,2,3,4,6,7,8-HpCDF	3.48e5	0.44	NO	0.774	10.107	37.317	37.36	1.086	1.087	153.92	77.8	0.533		
33 13C-1,2,3,4,7,8,9-HpCDF	2.06e5	0.42	NO	0.521	10.107	39.348	39.32	1.145	1.144	135.51	68.5	0.793		
34 13C-OCDF	4.92e5	0.82	NO	0.746	10.107	41.945	41.97	1.221	1.222	226.24	57.2	0.325		
35 37Cl-2,3,7,8-TCDD	2.43e5			1.04	10.107	26.538	26.50	1.028	1.026	77.814	98.3	0.145		
36 13C-1,2,3,4-TCDD	5.96e5	0.79	NO	1.00	10.107	25.890	25.83	1.000	1.000	197.88	100	0.322		
37 13C-1,2,3,4-TCDF	8.98e5	0.79	NO	1.00	10.107	24.360	24.13	1.000	1.000	197.88	100	0.343		
38 13C-1,2,3,4,6,9-HxCDF	5.77e5	0.51	NO	1.00	10.107	34.420	34.36	1.000	1.000	197.88	100	0.642		
39 Total Tetra-Dioxins				0.888	10.107	24.620		0.000		0.30479		0.0821	0.305	
40 Total Penta-Dioxins				0.908	10.107	29.960		0.000		0.24384		0.112	0.464	
41 Total Hexa-Dioxins				0.892	10.107	33.635		0.000		1.2124		0.124	1.67	
42 Total Hepta-Dioxins				0.864	10.107	37.640		0.000		4.7548		0.173	4.75	
43 Total Tetra-Furans				0.751	10.107	23.610		0.000		0.28794		0.0468	0.323	
44 1st Func. Penta-Furans				0.893	10.107	27.580		0.000				0.00770		
45 Total Penta-Furans				0.893	10.107	29.275		0.000				0.0136		
46 Total Hexa-Furans				0.934	10.107	33.555		0.000				0.0230		
47 Total Hepta-Furans				0.873	10.107	37.835		0.000				0.0338		

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-14C.qld

Last Altered: Friday, July 17, 2020 9:49:54 AM Pacific Daylight Time
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Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rv	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	24.34	4.421e3	7.243e3	3.862e2	5.225e2	0.74	NO	9.087e2	0.30479	0.30479	0.0821

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rv	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.25	3.489e3	3.165e3	1.429e2	1.799e2	0.79	YES	0.000e0	0.00000	0.10193	0.112
Total Penta-Dioxins	29.70	4.162e3	6.354e3	2.540e2	3.653e2	0.70	NO	6.192e2	0.21522	0.21522	0.112
Total Penta-Dioxins	30.40	1.052e3	8.890e2	5.242e1	2.996e1	1.75	YES	0.000e0	0.00000	0.016974	0.112
Total Penta-Dioxins	30.47	1.290e3	1.672e3	3.338e1	4.899e1	0.68	NO	8.237e1	0.028628	0.028628	0.112
Total Penta-Dioxins	30.73	2.848e3	2.425e3	1.561e2	1.786e2	0.87	YES	0.000e0	0.00000	0.10119	0.112

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rv	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.33	2.445e4	2.060e4	1.273e3	1.148e3	1.11	NO	2.421e3	1.2124	1.2124	0.124
Total Hexa-Dioxins	34.15	8.509e3	8.245e3	5.062e2	5.133e2	0.99	YES	0.000e0	0.00000	0.45794	0.124

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rv	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.75	2.478e4	1.983e4	1.922e3	1.721e3	1.12	NO	3.644e3	2.9980	2.9980	0.173
1,2,3,4,6,7,8-HpCDD	38.79	1.531e4	1.787e4	1.036e3	1.099e3	0.94	NO	2.135e3	1.7568	1.7568	0.173

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	rv	Resp	Conc	EMPC	DL
Total Tetra-Furans	20.36	1.377e3	9.770e2	3.659e1	3.449e1	1.06	YES	0.000e0	0.00000	0.019539	0.0468
Total Tetra-Furans	21.47	4.436e3	6.193e3	3.566e2	5.430e2	0.66	NO	8.995e2	0.28794	0.28794	0.0468
Total Tetra-Furans	25.83	1.121e3	1.650e3	2.096e1	5.463e1	0.38	YES	0.000e0	0.00000	0.015421	0.0468

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-14C.qld

Last Altered: Friday, July 17, 2020 9:49:54 AM Pacific Daylight Time

Printed: Friday, July 17, 2020 9:51:22 AM Pacific Daylight Time

Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp
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Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Comp	Unit
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp
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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Comp	Unit
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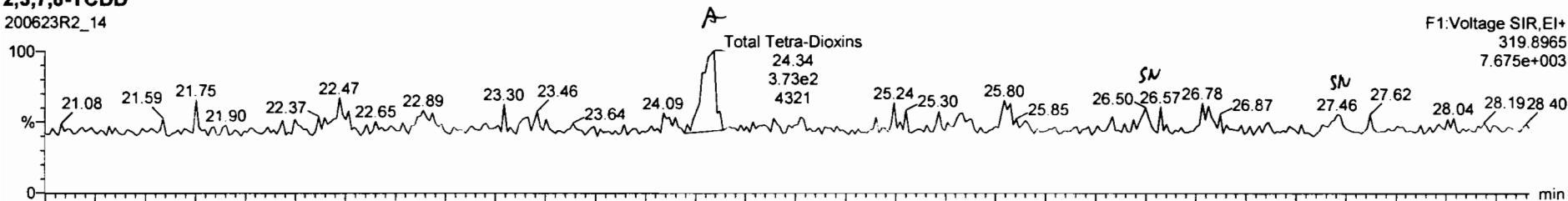
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

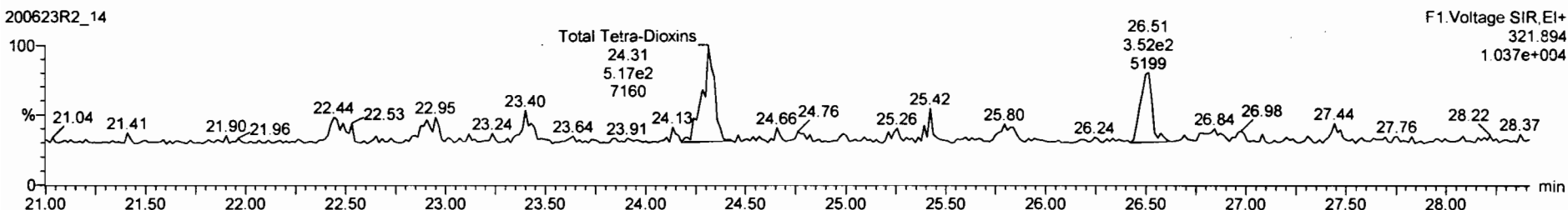
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2,3,7,8-TCDD

200623R2_14

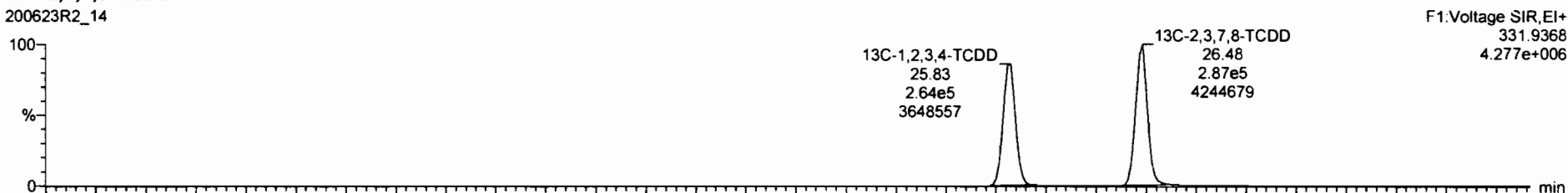


200623R2_14

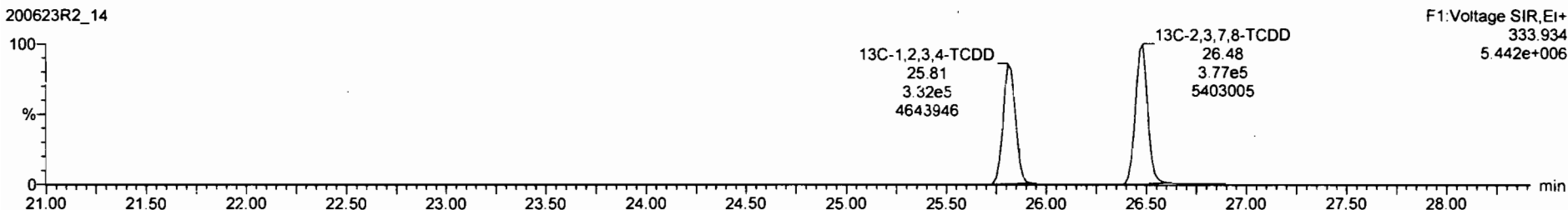


13C-2,3,7,8-TCDD

200623R2_14

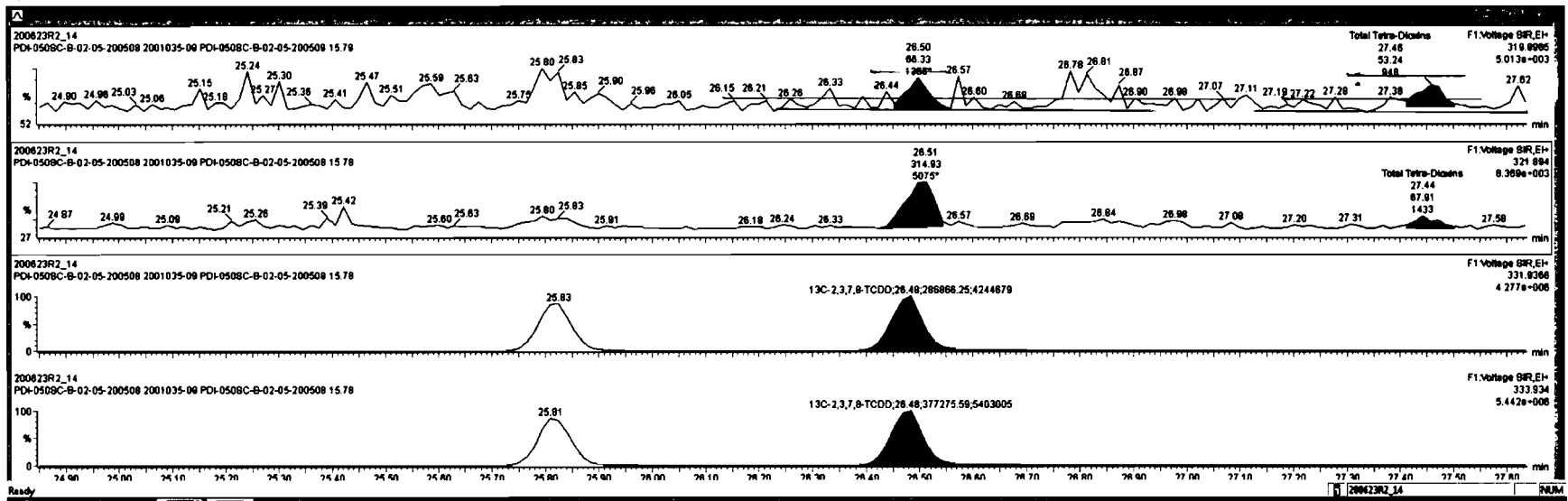


200623R2_14



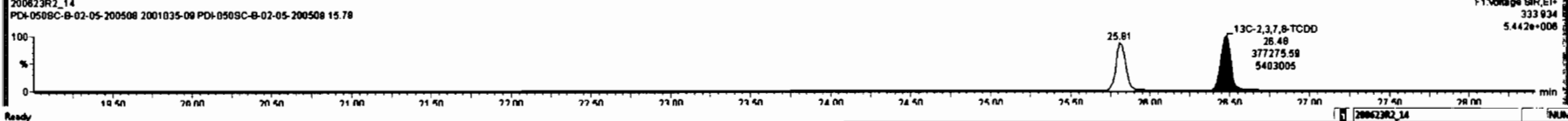
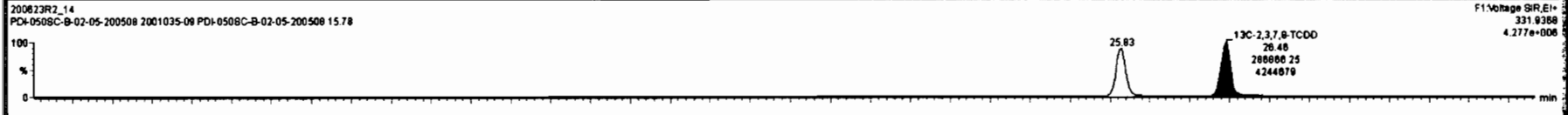
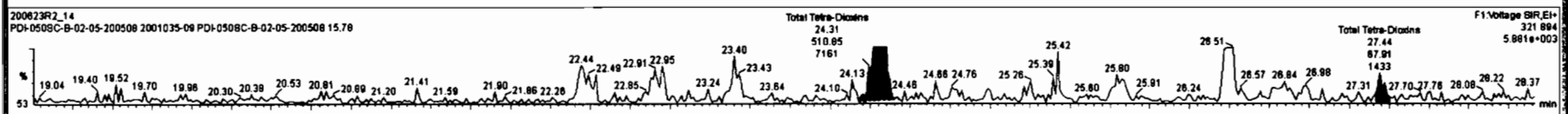
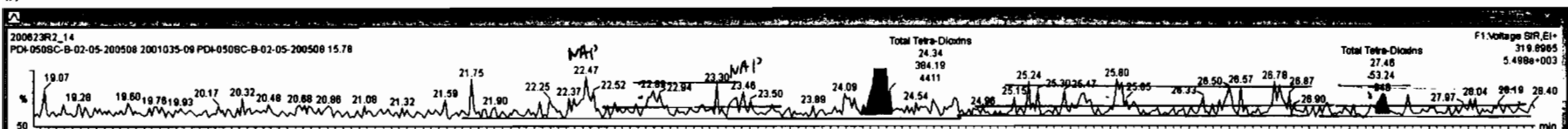
Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
Total Penta-Chlorine	10.107	28.90	0.211	0.112	0.211		
Total Hexa-Chlorine	10.107	33.83	1.20	0.124	1.98		
Total Hepta-Chlorine	10.107	37.84	4.85	0.174	4.85		
Total Tetra-Furane	10.107	23.81	0.287	0.0488	0.287		
Total Penta-Furane	10.107	27.58		0.03770			
Total Hexa-Furane	10.107	28.27		0.0136			
Total Hepta-Furane	10.107	33.58		0.0220			
Total Octa-Furane	10.107	37.83		0.0338			
PFK1							
PFK2							
PFK3							

Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
Total Tetra-Dioxine	24.34	3.842e2	5.109e2	0.75	NO	0.30020	0.30020
Total Tetra-Dioxine	27.47	1.289e2	1.835e2	0.83	YES	0.08822	0.08820
Total Tetra-Dioxine	27.48	5.324e1	8.781e1	0.78	NO	0.040833	0.040833



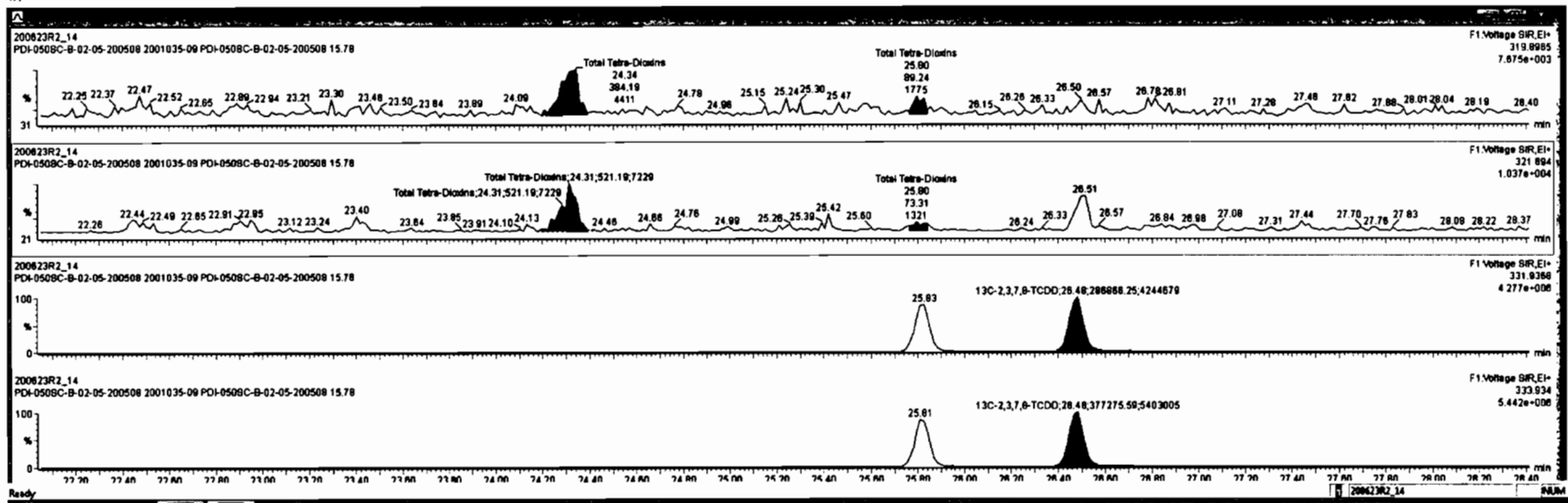
40	Total Penta-Dioxins	0.0091	10.107	28.98		0.211	0.112	0.211
41	Total Hexa-Dioxins	0.8923	10.107	33.83		1.20	0.124	1.88
42	Total Hepta-Dioxins	0.8630	10.107	37.84		4.85	0.174	4.85
43	Total Tetra-Furans	0.7510	10.107	23.81		0.287	0.0488	0.287
44	1st Func. Penta-Furans	0.8825	10.107	27.58			0.00770	
45	Total Penta-Furans	0.8825	10.107	28.27			0.0138	
46	Total Hexa-Furans	0.8341	10.107	33.58			0.0230	
47	Total Hepta-Furans	0.8734	10.107	37.83			0.0338	
48	PFK1							
49	PFK2							

1	Total Tetra-Dioxins	24.34	9.84e2	5.10e2	0.75	NO	0.30030	0.30030
2	Total Tetra-Dioxins	27.46	5.324e1	8.791e1	0.78	NO	0.040833	0.040833



48	Total Penta-Dioxins			0.8061	10.107	28.86			0.211	0.112	0.211
49	Total Hexa-Dioxins			0.8623	10.107	33.83			1.20	0.124	1.86
50	Total Hepta-Dioxins			0.8630	10.107	37.84			4.86	0.174	4.85
51	Total Tetra-Furans			0.7510	10.107	23.81			0.287	0.0498	0.287
52	1st Func. Penta-Furans			0.8625	10.107	27.58				0.00770	
53	Total Penta-Furans			0.8625	10.107	28.27				0.0138	
54	Total Hexa-Furans			0.8341	10.107	33.88				0.0230	
55	Total Hepta-Furans			0.8734	10.107	37.83				0.0338	
56	RFK1										
57	RFK2										
58	RFK3										

51	Total Tetra-Dioxins	24.34	3.842e2	5.212e2	0.74	MD	0.30287	0.30287
52	Total Tetra-Dioxins	25.80	8.924e1	7.331e1	1.22	YES	0.043623	0.00000



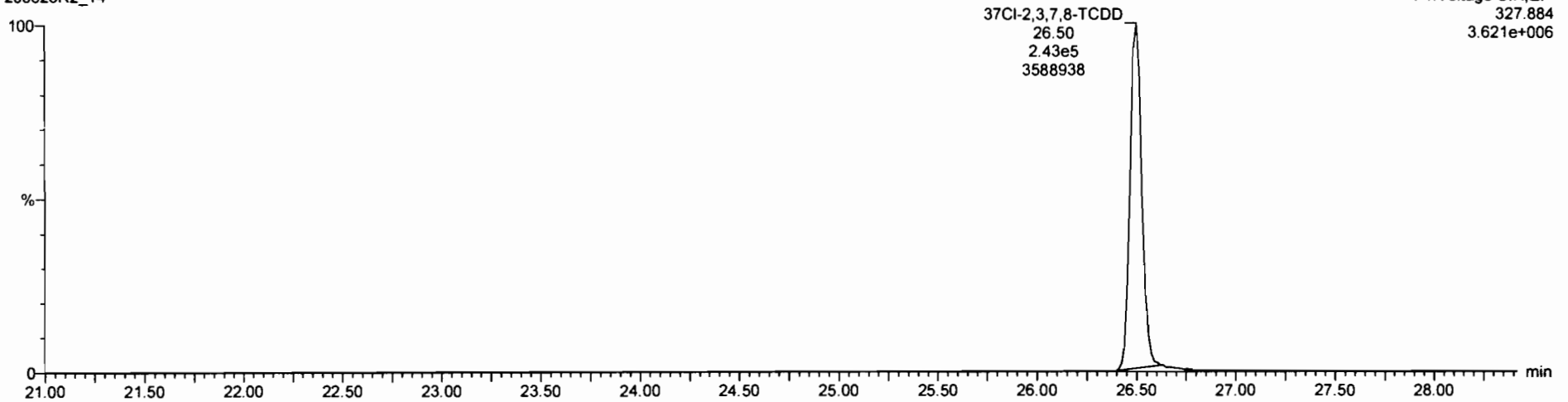
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

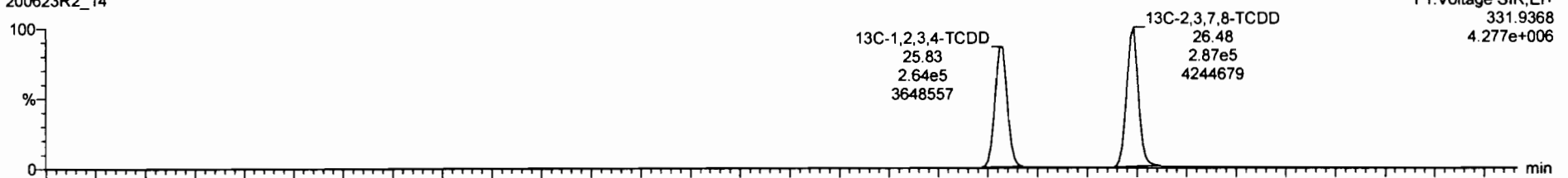
37Cl-2,3,7,8-TCDD

200623R2_14

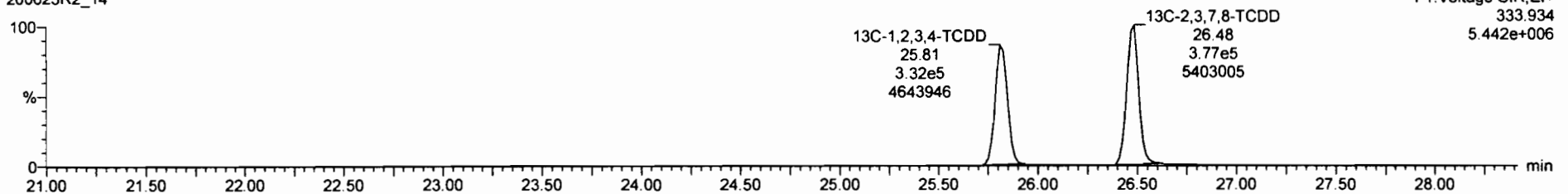


13C-1,2,3,4-TCDD

200623R2_14



200623R2_14



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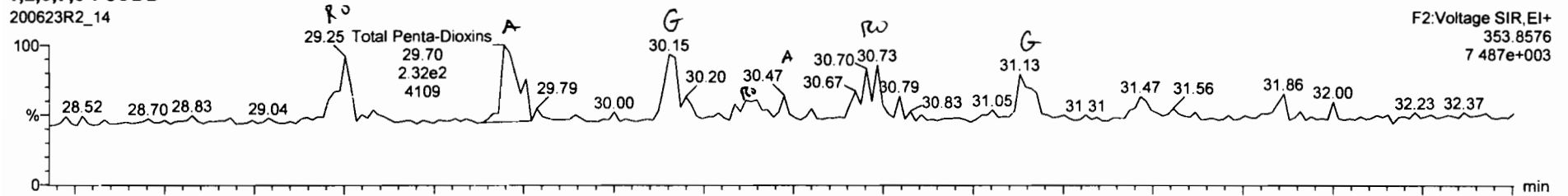
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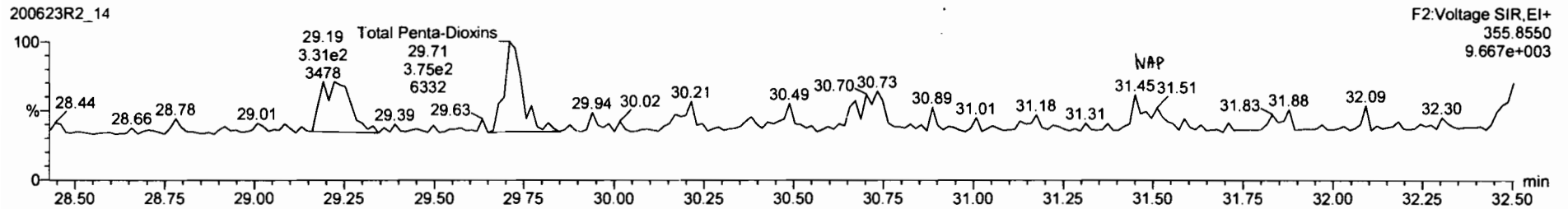
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1,2,3,7,8-PeCDD

200623R2_14

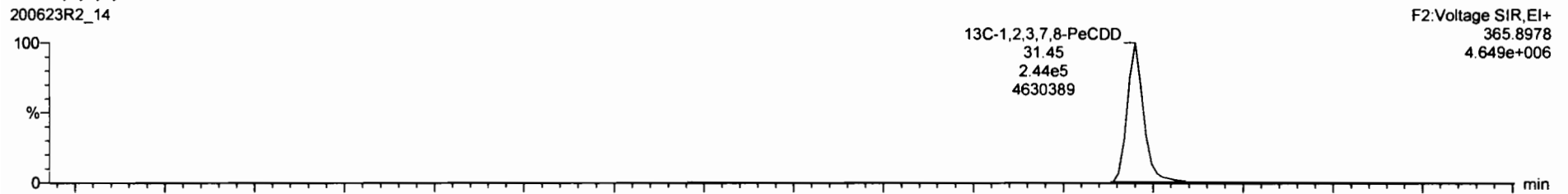


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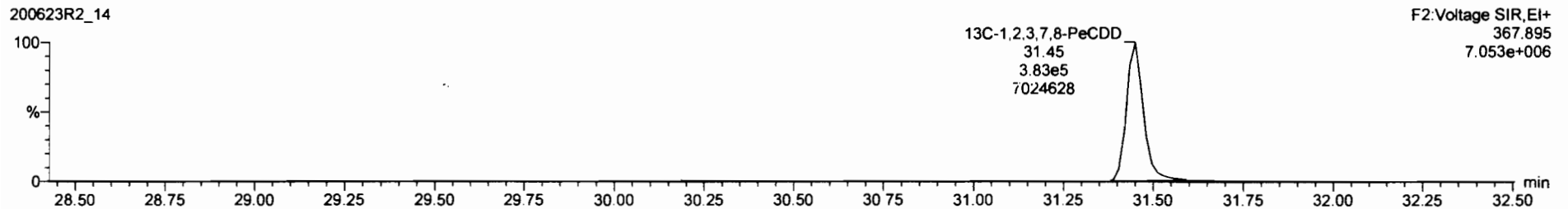


13C-1,2,3,7,8-PeCDD

200623R2_14

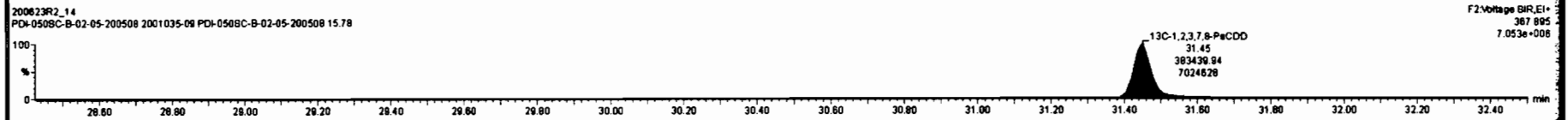
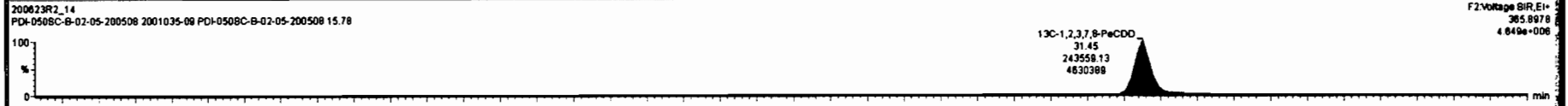
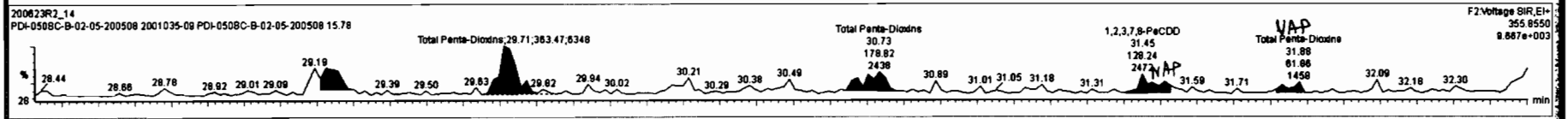
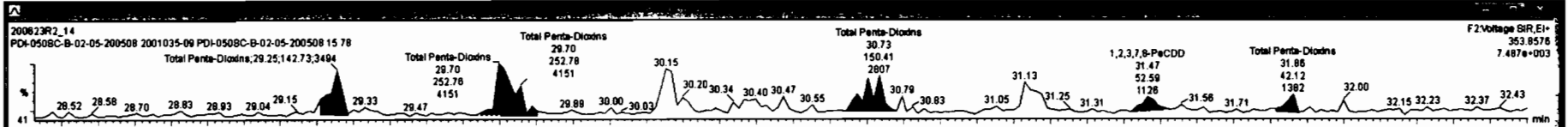


200623R2_14



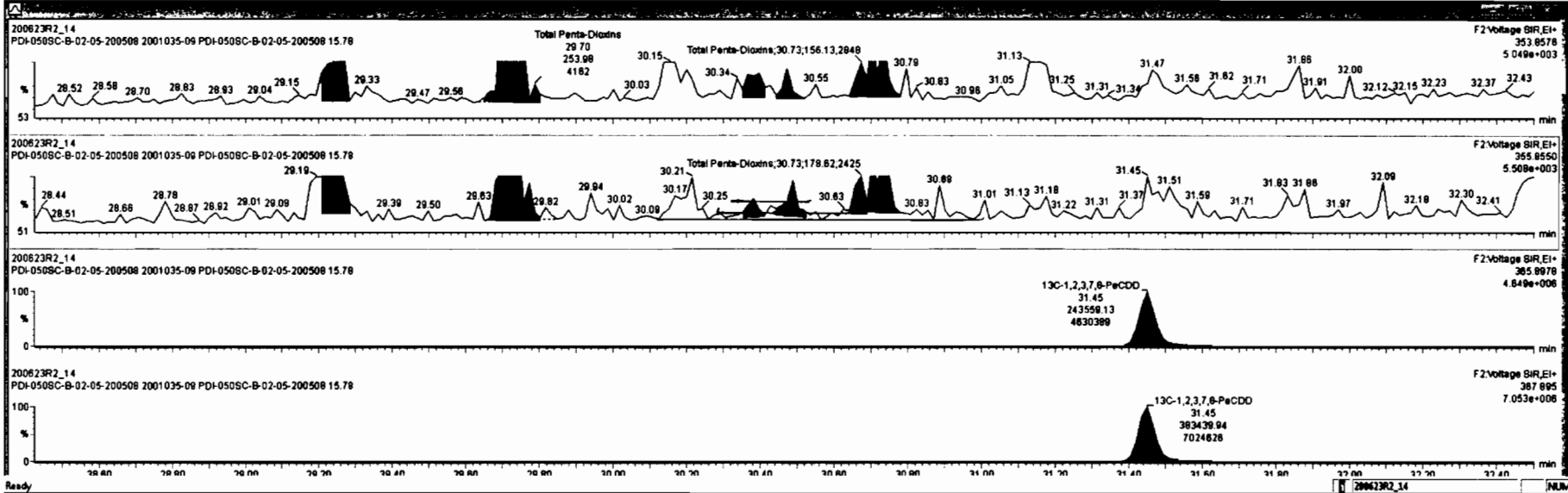
Sample	Component	Area	Height	Retention	Response	Concentration	Mass	Sum
1	Total Penta-Dioxine	0.9081	10.107	29.98		0.250	0.112	0.486
2	Total Hexa-Dioxine	0.8823	10.107	30.83		1.20	0.124	1.88
3	Total Hepta-Dioxine	0.8830	10.107	37.84		4.85	0.174	4.85
4	Total Tetra-Furane	0.7510	10.107	23.81		0.287	0.0468	0.287
5	1,2,3,7,8-PeCDD	0.8825	10.107	27.58			0.00770	
6	Total Penta-Furane	0.8825	10.107	28.27			0.0136	

Sample	Component	Area	Height	Retention	Response	Concentration	Mass	Sum
1	Total Penta-Dioxine	29.25	1.427e2	1.535e2	0.83	YES	0.008943	0.00000
2	Total Penta-Dioxine	29.70	2.528e2	3.635e2	0.70	NO	0.21417	0.21417
3	Total Penta-Dioxine	30.73	1.504e2	1.788e2	0.84	YES	0.10130	0.00000
4	1,2,3,7,8-PeCDD	31.47	5.258e1	1.282e2	0.41	YES	0.04720	0.00000
5	Total Penta-Furane	31.88	4.215e1	8.188e1	0.88	NO	0.00000	0.00000



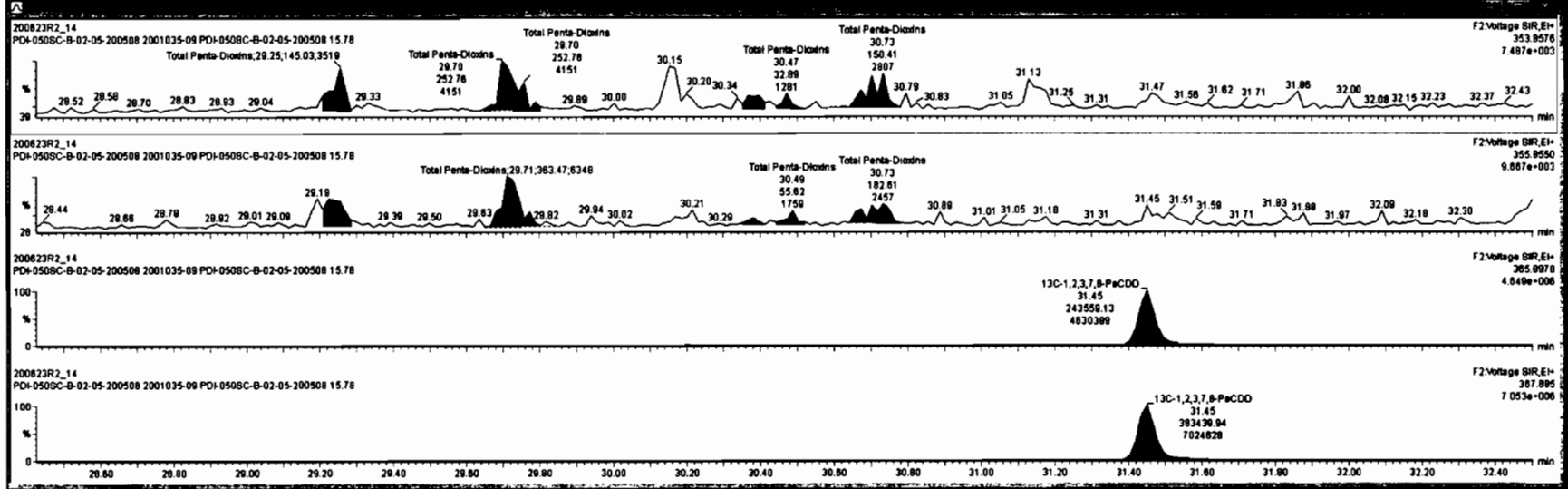
#	Name	Area	Height	Retention	Response	Integration	Integration	Integration	Integration	Integration
1	2,3,7,8-TCDD			10.107	26.51					0.0821
2	1,2,3,7,8-PeCDD			10.107	31.47					0.112
3	1,2,3,4,7,8-HxCDD			10.107	34.86					0.115
4	1,2,3,6,7,8-HxCDD			10.107	34.93					0.115
5	1,2,3,7,8,9-HxCDD			10.107	35.23					0.126
6	1,2,3,4,6,7,8-HpCDD			10.107	36.78					0.174
7	OCDD	1.45e4	0.88	10.107	41.78	1.000	15.2			0.227
8	2,3,7,8-TCDF			10.107	25.81					0.0488
9	1,2,3,7,8-PeCDF			10.107	30.19					0.0334

#	Name	Area	Height	Retention	Response	Integration	Integration
1	Total Penta-Dioxins	29.70	2.540e2	3.863e2	0.70	NO	0.21822
2	Total Penta-Dioxins	29.25	1.429e2	1.799e2	0.79	YES	0.10183
3	Total Penta-Dioxins	30.40	5.242e1	3.522e1	1.58	YES	0.018817
4	Total Penta-Dioxins	30.47	3.328e1	5.683e1	0.80	NO	0.021026
5	Total Penta-Dioxins	30.73	1.581e2	1.786e2	0.87	YES	0.10118



Peak	Retention	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
46	28.25	1.450e2	1.820e2	0.75	YES	0.10895	0.00000		
47	29.70	2.528e2	3.826e2	0.70	NO	0.21417	0.21417		
48	30.40	5.542e1	2.881e1	2.08	YES	0.015077	0.00000		
49	30.47	3.280e1	5.582e1	0.58	NO	0.030781	0.030781		
49	Total Penta-Dioxins	0.8825	10.107	27.58			0.00770		
49	Total Penta-Furans	0.8825	10.107	27.58			0.00770		

Peak	Retention	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
1	28.25	1.450e2	1.820e2	0.75	YES	0.10895	0.00000		
2	29.70	2.528e2	3.826e2	0.70	NO	0.21417	0.21417		
3	30.40	5.542e1	2.881e1	2.08	YES	0.015077	0.00000		
4	30.47	3.280e1	5.582e1	0.58	NO	0.030781	0.030781		
5	Total Penta-Dioxins	0.8825	10.107	27.58			0.00770		



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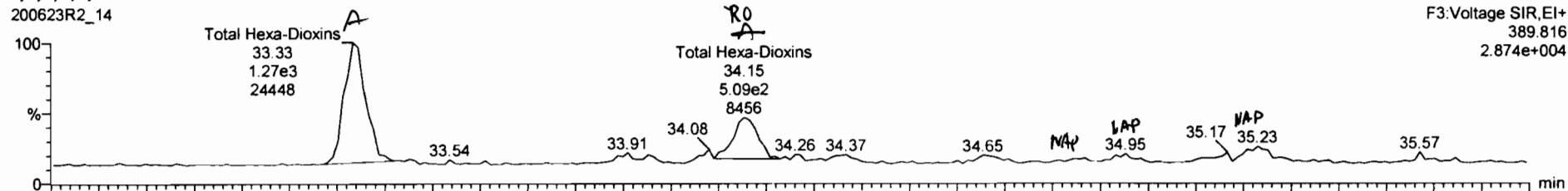
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Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

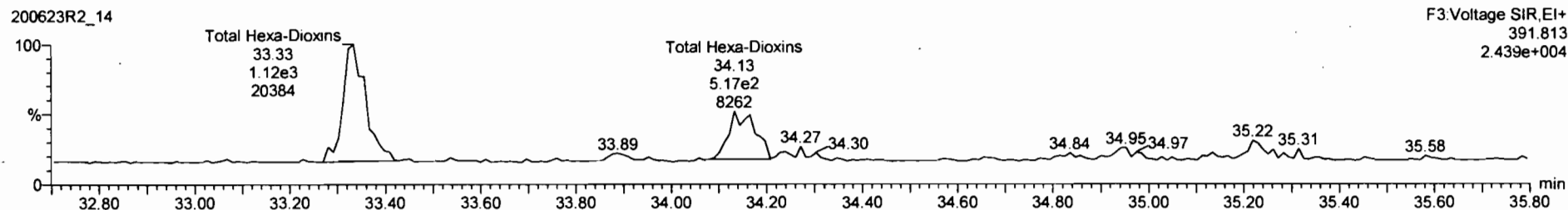
HN 07/01/2020

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

200623R2_14



200623R2_14

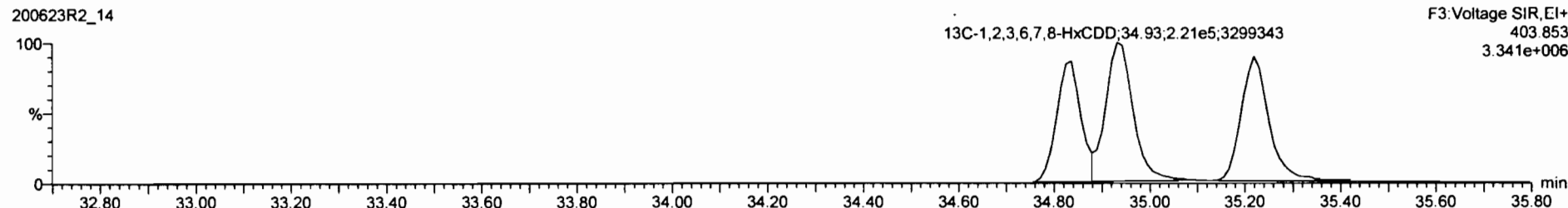


13C-1,2,3,4,7,8-HxCDD

200623R2_14

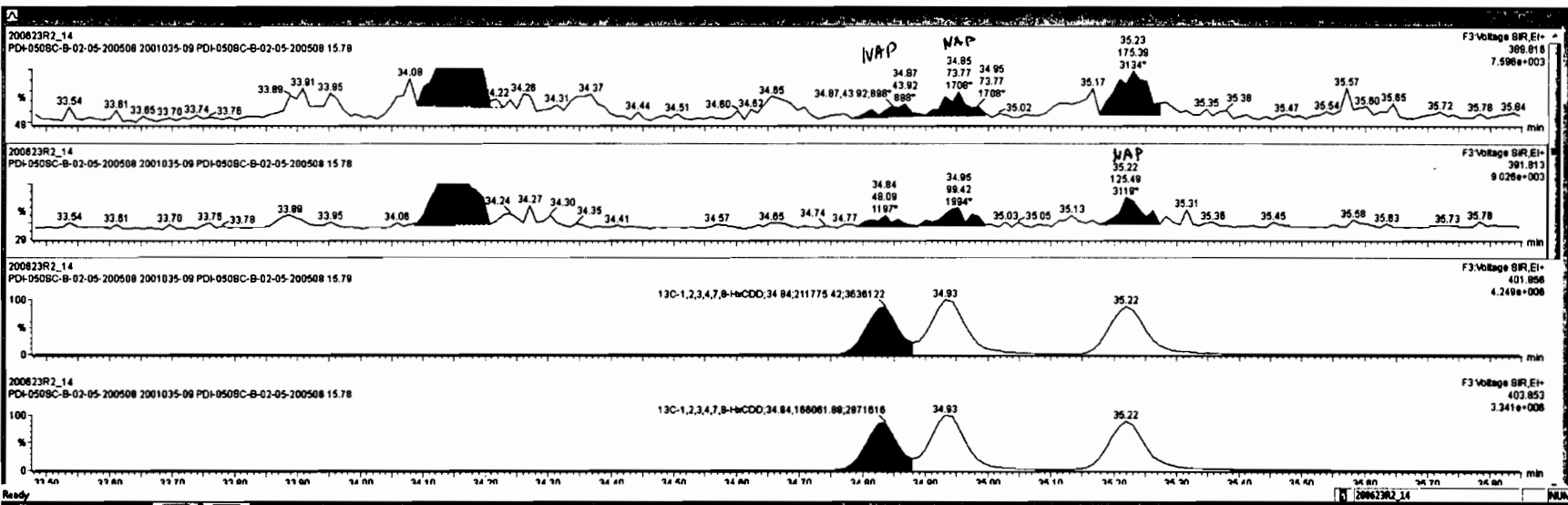


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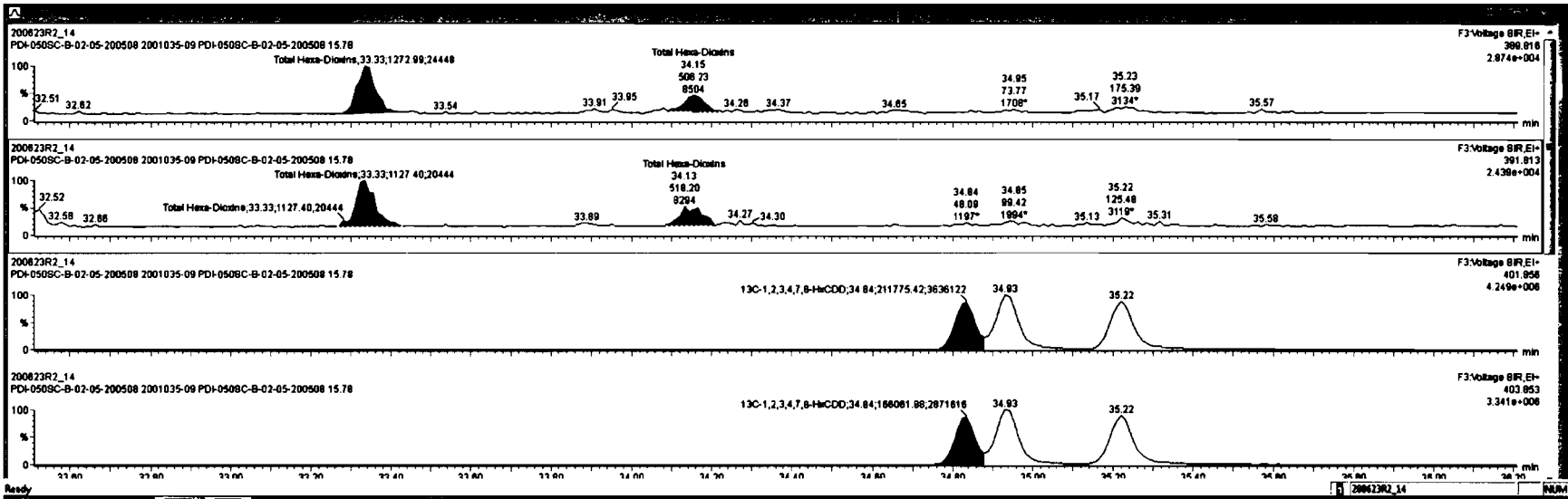
Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
1	33.54	0.0028	10.107	37.84		4.40	0.174 4.40
2	33.81	0.7510	10.107	23.81		0.268	0.0489 0.324
3	33.85	0.0025	10.107	27.59			0.00770
4	33.78	0.0025	10.107	26.27			0.0136
5	33.95	0.8241	10.107	33.58		0.0599	0.02230 0.0599
6	34.08	0.8734	10.107	37.83			0.0336
7	34.22						
8	34.26						
9	34.31						
10	34.37						
11	34.44						
12	34.51						
13	34.60						
14	34.65						
15	34.85						
16	34.87						
17	34.87, 43.92, 898°						
18	34.87						
19	34.85						
20	34.95						
21	34.95						
22	35.02						
23	35.17						
24	35.23						
25	35.23						
26	35.35						
27	35.38						
28	35.47						
29	35.54						
30	35.57						
31	35.80						
32	35.85						
33	35.72						
34	35.78						
35	35.84						

Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
1	33.54	33.33	1.273e3	1.127e3	1.13	NO	1.2020 1.2020
2	34.15	5.062e2	5.182e2	0.98	YES	0.45794	0.00000



42	Total Hexa-Chlorine			0.8838	10.107	37.84			4.48		0.174	4.48
43	Total Tetra-Furane			0.7510	10.107	23.81			0.288		0.0468	0.334
44	1st Func. Furane-Furane			0.8825	10.107	27.88					0.0070	
45	Total Hexa-Furane			0.8825	10.107	28.27					0.0158	
46	Total Hexa-Furane			0.8341	10.107	33.58			0.0588		0.0230	0.0588
47	Total Hexa-Furane			0.8734	10.107	37.83					0.0338	
48	PFY1											
49	PFY2											

1	Total Hexa-Dioxine	33.33	1.273e3	1.127e3	1.13	NO	1.2020	1.2020
2	Total Hexa-Dioxine	34.16	5.082e2	5.182e2	0.98	YES	0.45794	0.00000



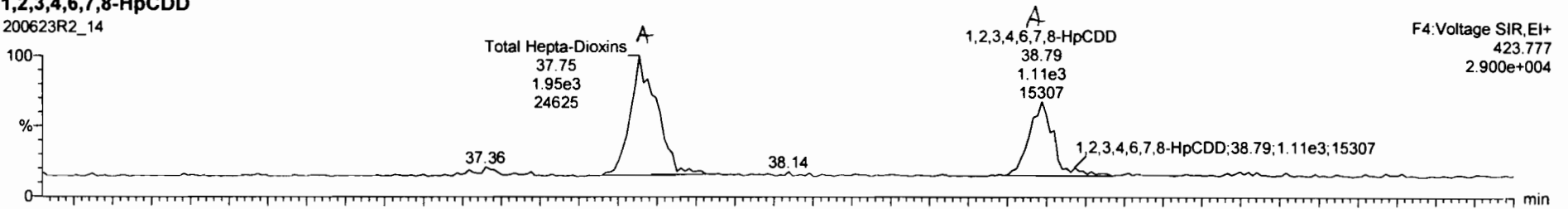
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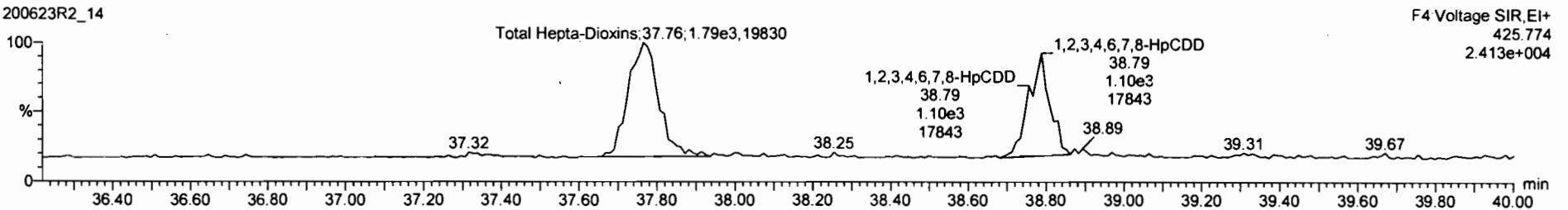
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1,2,3,4,6,7,8-HpCDD

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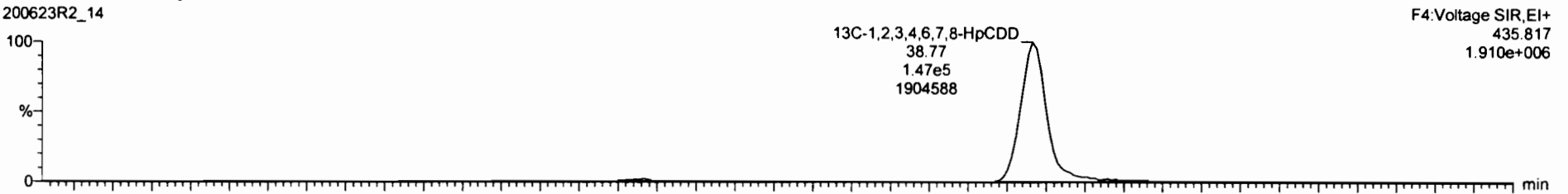


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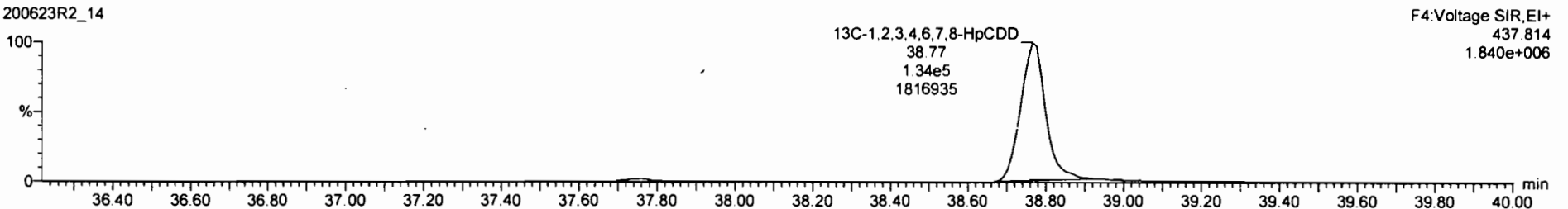


13C-1,2,3,4,6,7,8-HpCDD

200623R2_14



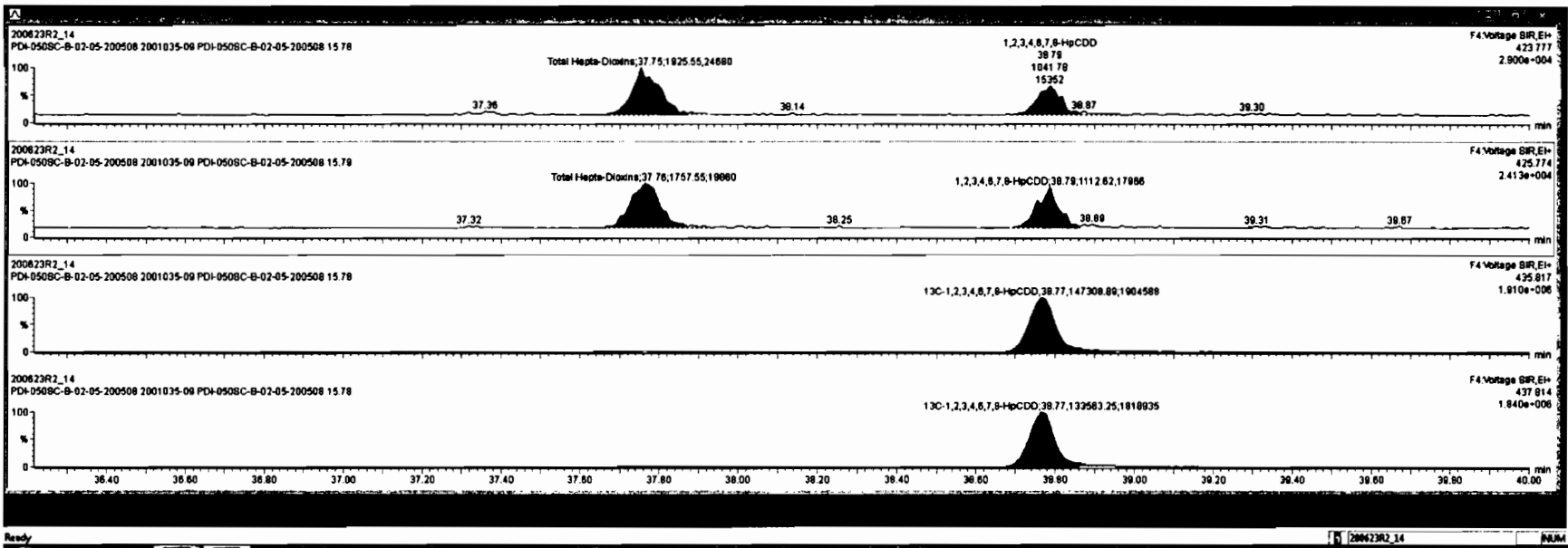
200623R2_14





Peak	Name	Area	Height	Width	Retention	Conc	Std. Dev.	Signal	Integ.	Area%	Height%
1	Total Penta-Dioxins	0.8081	10.107	28.96		0.245				0.112	0.473
2	Total Hexa-Dioxins	0.8623	10.107	33.63		1.20				0.124	1.86
3	Total Tria-Furans	0.7510	10.107	23.81		0.287				0.0488	0.287
4	1st Func. Penta-Furans	0.8625	10.107	27.58						0.02770	
5	Total Penta-Furans	0.8625	10.107	28.77						0.0436	

Peak	Name	Area	Height	Width	Retention	Conc	Std. Dev.	Signal	Integ.	Area%	Height%
1	Total Hepta-Dioxins	37.75	1.828e3	1.759e3	1.10	NO	3.0038	3.0038			
2	1,2,3,4,6,7,8-HpCDD	38.78	1.042e3	1.113e3	0.94	NO	1.7588	1.7588			

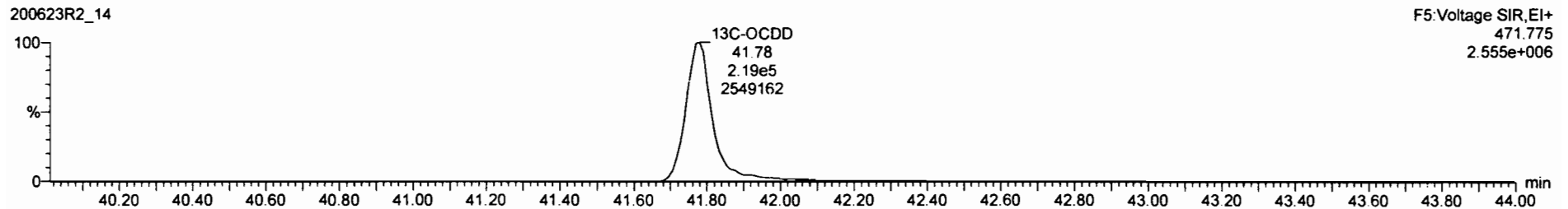
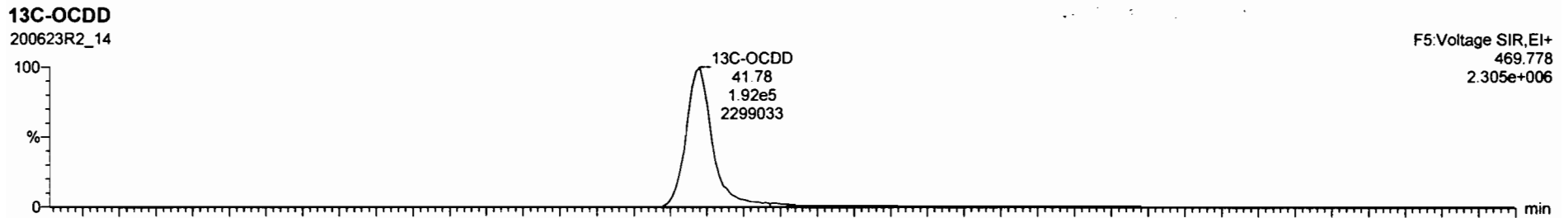
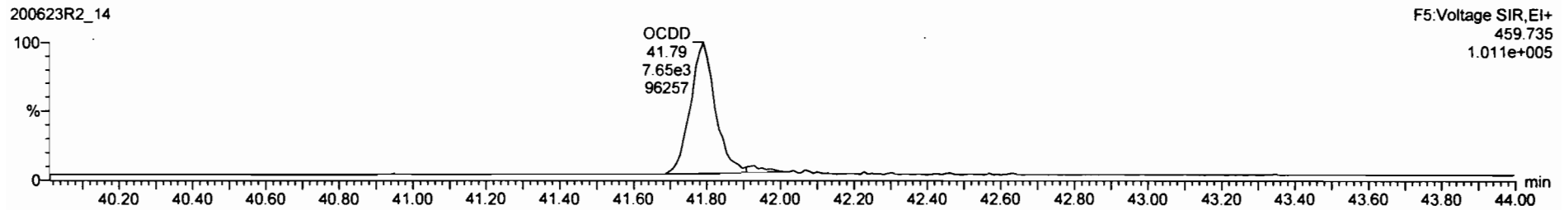
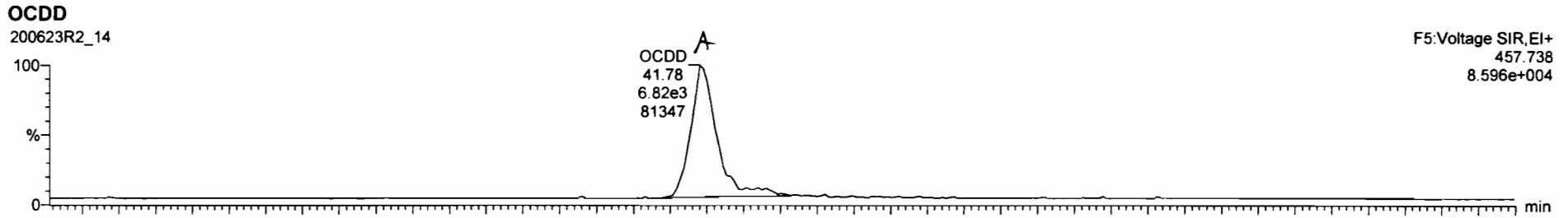


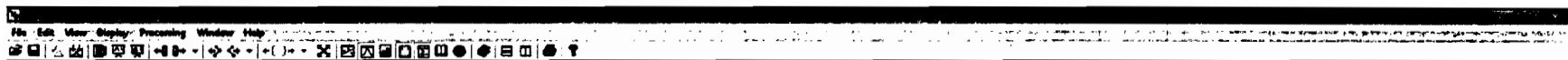
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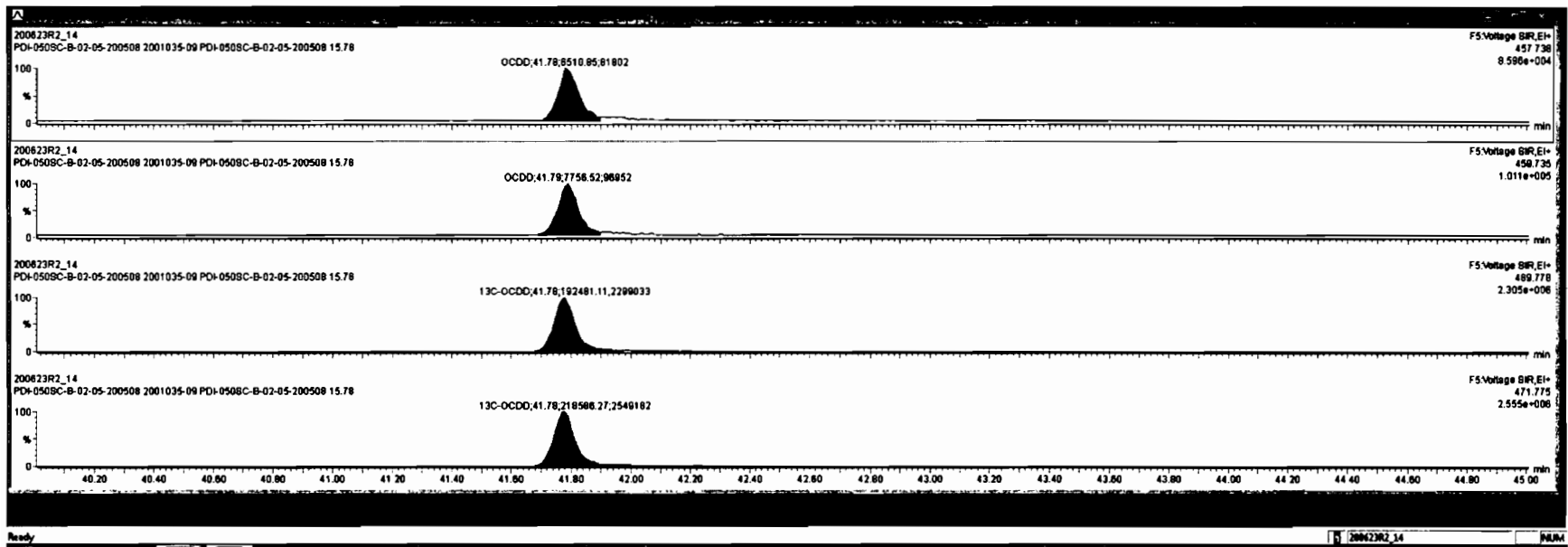
Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508





Peak	Retention Time (min)	Area	Height	Width	Resolution	Signal-to-Noise	Integration	Integration	Integration	Integration	Integration	Integration
1	1.23, 8.7, 8.4	NO	0.8823	10.107	34.80							0.115
2	1.23, 7.8, 8.4	NO	0.8888	10.107	35.23							0.129
3	1.23, 4.8, 7.8	NO	0.8639	10.107	38.78	38.78	1.001	1.78				0.174 1.78
4	2.3, 7.8	NO	0.7510	10.107	25.81							0.0488
5	1.2, 3.7, 8.4	NO	0.8823	10.107	34.80							0.115

Name	RT	Area	Height	Width	Resolution	Signal-to-Noise	Integration	Integration	Integration	Integration	Integration	Integration

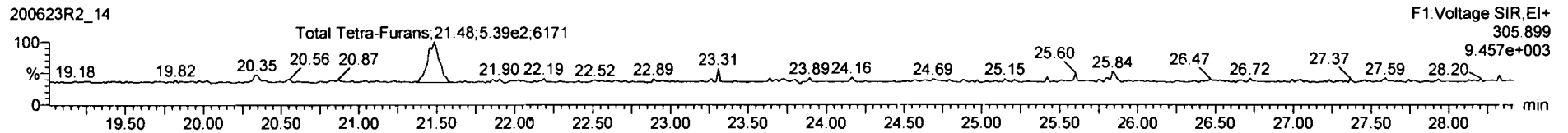
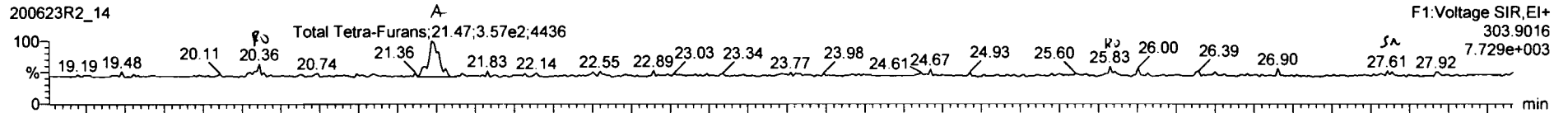


Dataset: Untitled

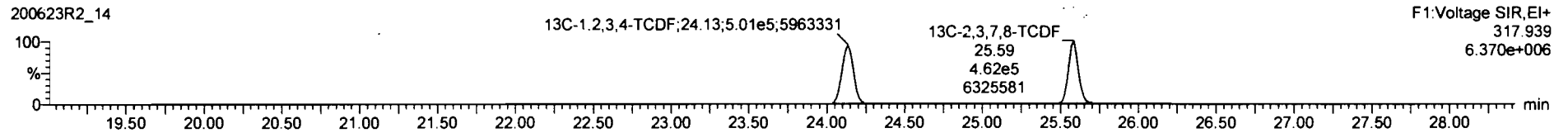
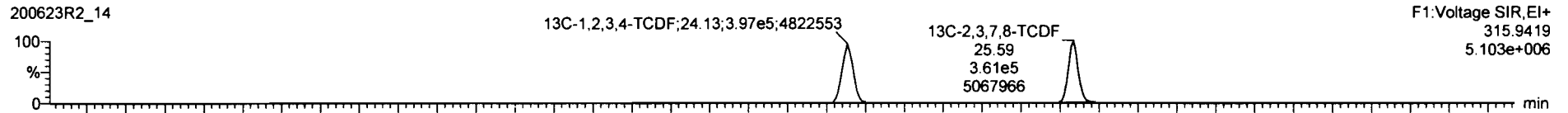
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

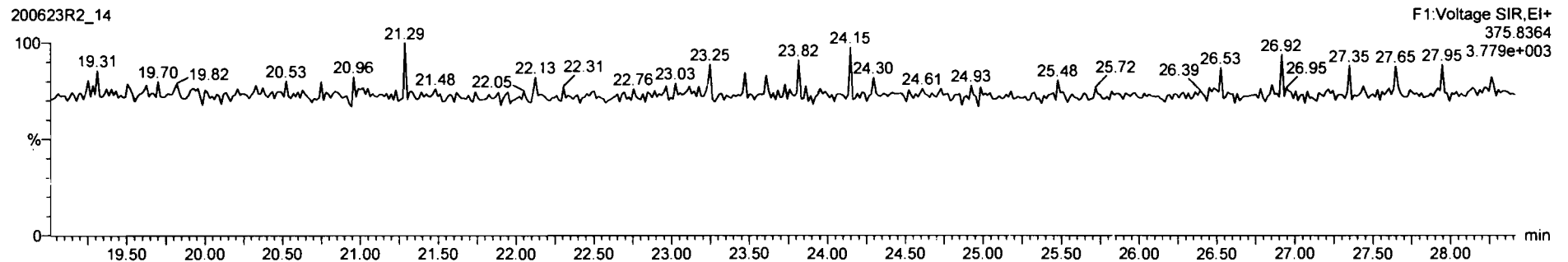
2,3,7,8-TCDF



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

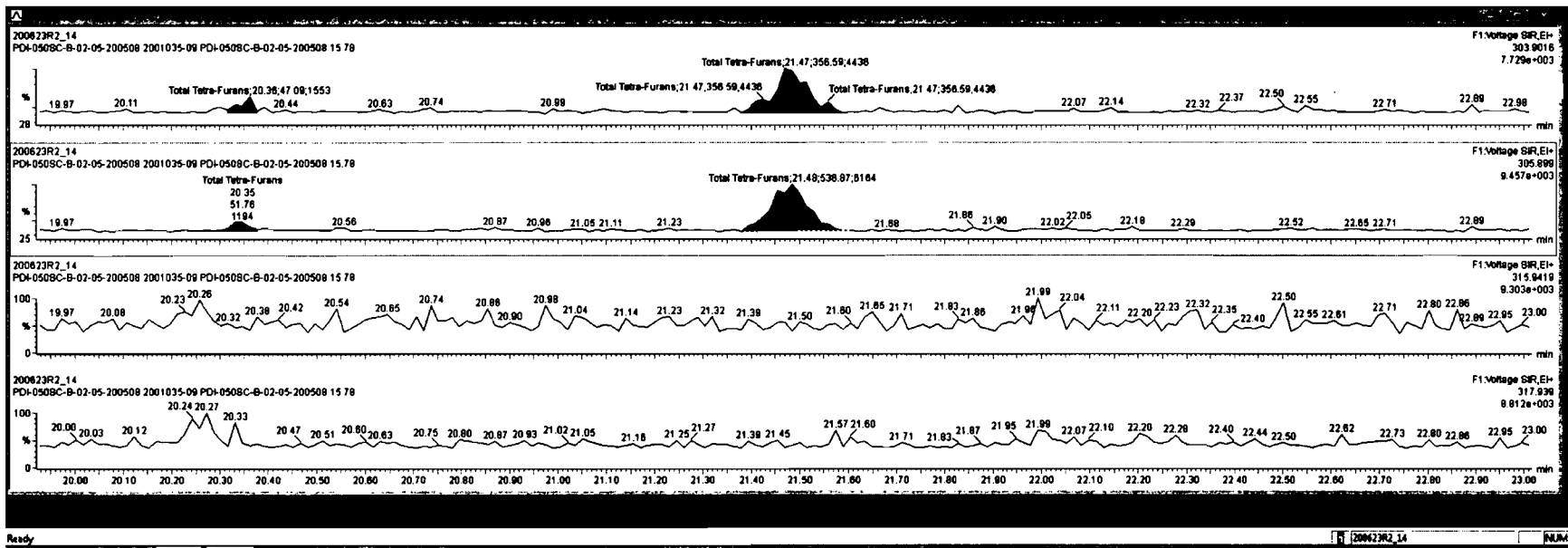


DPE1



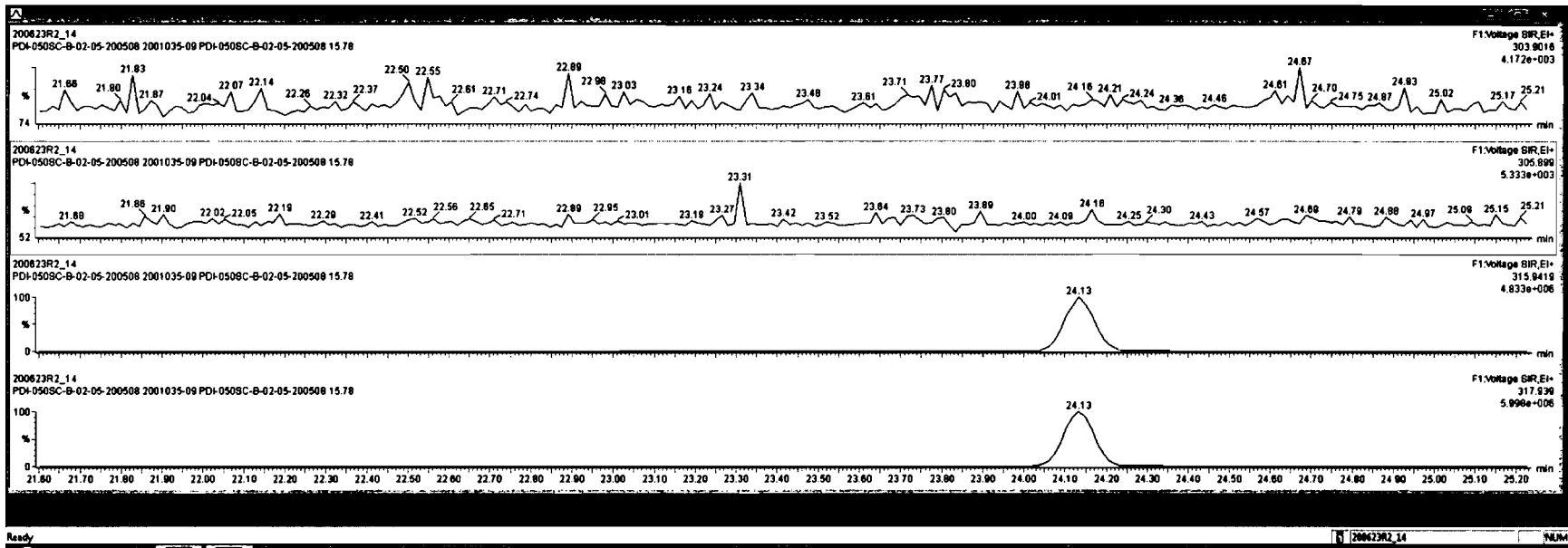
Peak	RT	Area	Height	W	Area%	Height%
1	20.36	4.709e1	5.179e1	0.91	YES	0.029327
2	21.47	3.599e2	5.369e2	0.86	NO	0.28998
3	25.83	2.514e1	4.282e1	0.50	YES	0.016488

Peak	RT	Area	Height	W	Area%	Height%
1	20.36	4.709e1	5.179e1	0.91	YES	0.029327
2	21.47	3.599e2	5.369e2	0.86	NO	0.28998
3	25.83	2.514e1	4.282e1	0.50	YES	0.016488



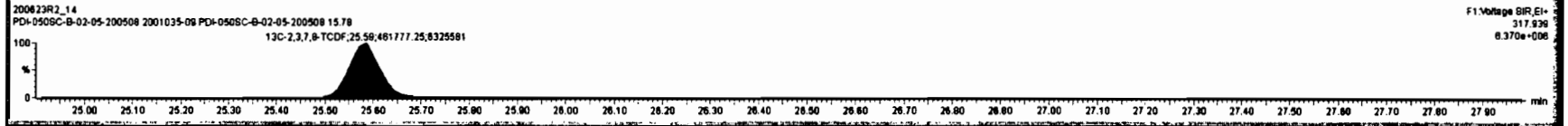
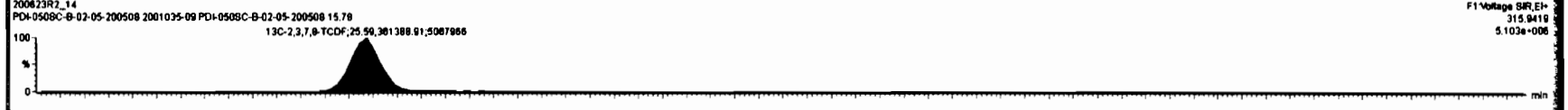
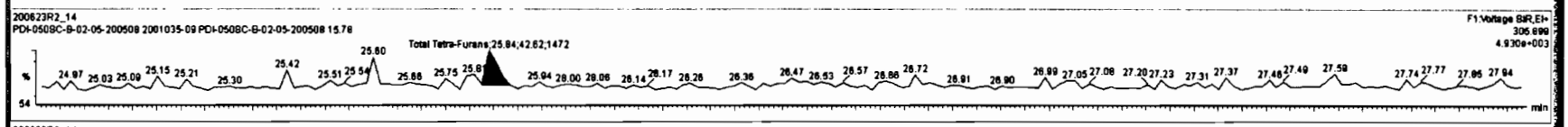
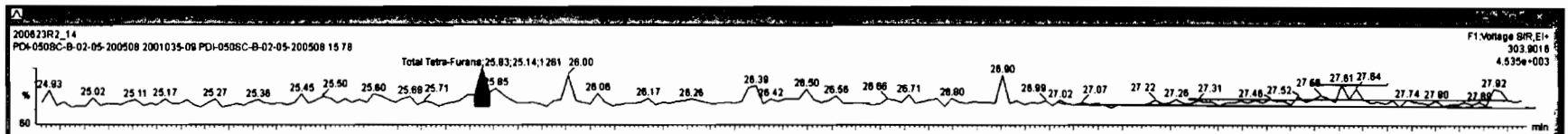
Peak	Retention	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
44	Total Furoic-Purine-Furane				0.8925	10.107	27.59		0.00770
45	Total Pentis-Furane				0.8925	10.107	29.27		0.0136
46	Total Hexis-Furane				0.8341	10.107	33.56		0.0230
47	Total Heptis-Furane				0.8734	10.107	37.83		0.0338
48	PKV								

Peak	Retention	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
1	Total Tetra-Furane	20.36	4.708e1	5.178e1	0.91	YES	0.028327	0.00000	
2	Total Tetra-Furane	21.47	3.586e2	5.389e2	0.86	NO	0.28988	0.28998	
3	Total Tetra-Furane	25.63	2.814e1	4.282e1	0.59	YES	0.018498	0.00000	



RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
25.85	10107	27.50	0.0025	10.107	27.50				0.00770
26.00	10107	26.27	0.0025	10.107	26.27				0.0150
33.50	10107	33.50	0.0341	10.107	33.50				0.0250
37.83	10107	37.83	0.8734	10.107	37.83				0.0336

RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
20.30	4.700e1	5.170e1	0.91	YES	0.028327	0.00000			
21.47	3.500e2	5.300e2	0.80	NO	0.20598	0.20000			
25.83	2.514e1	4.262e1	0.50	YES	0.018488	0.00000			



Dataset: Untitled

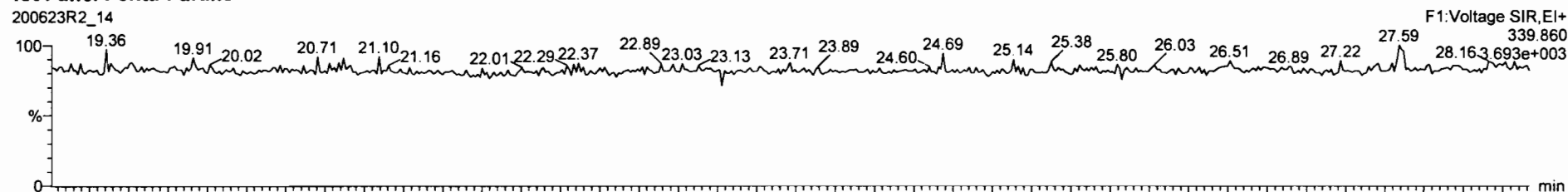
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

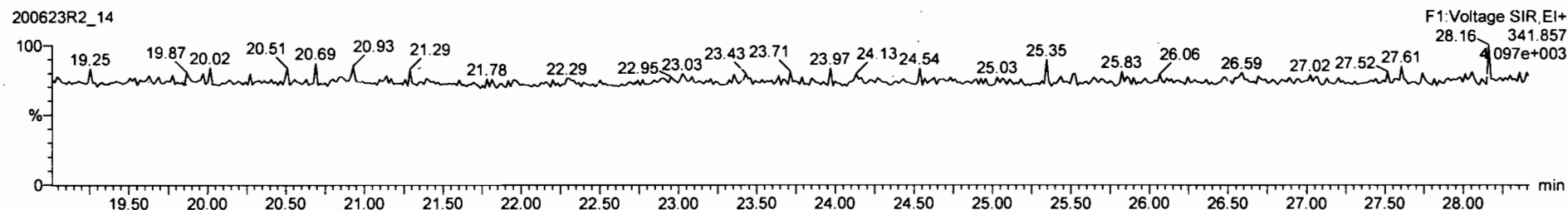
Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

1st Func. Penta-Furans

200623R2_14

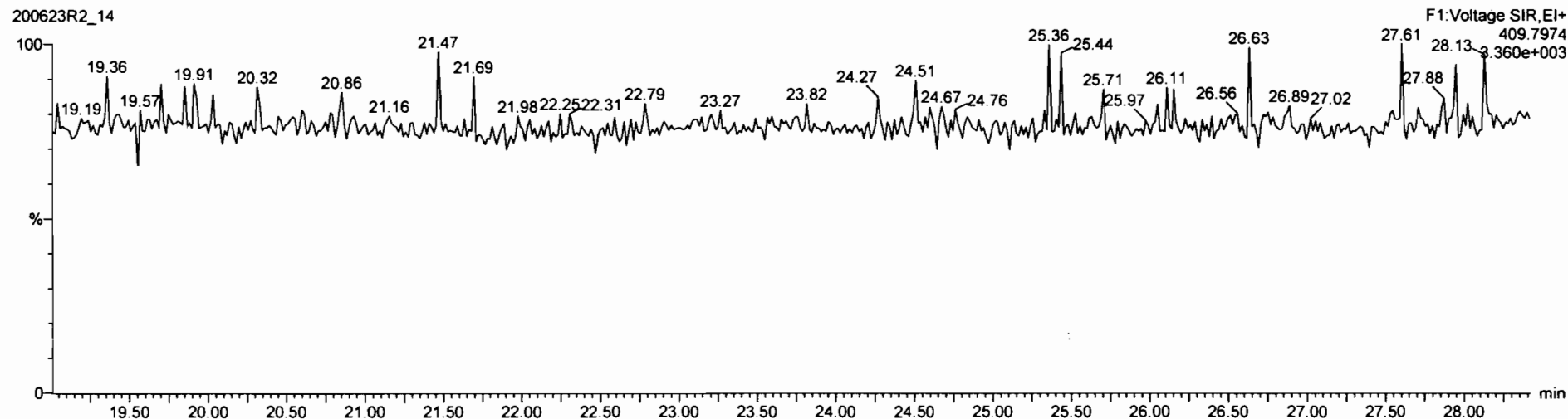


200623R2_14



DPE6

200623R2_14



Dataset: Untitled

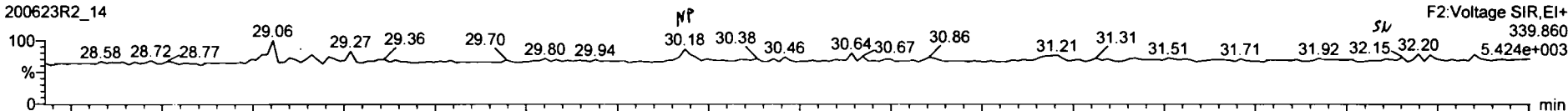
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

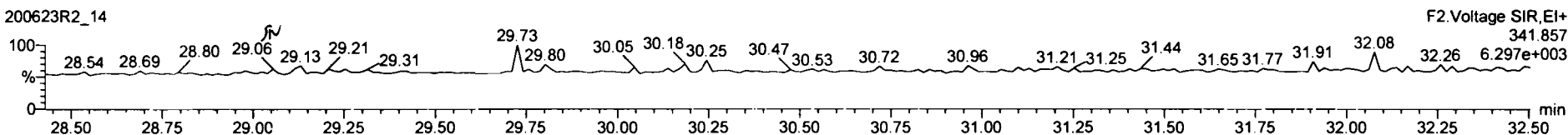
Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

1,2,3,7,8-PeCDF

200623R2_14

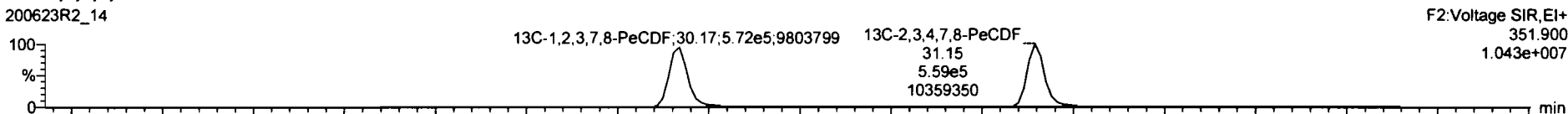


200623R2_14

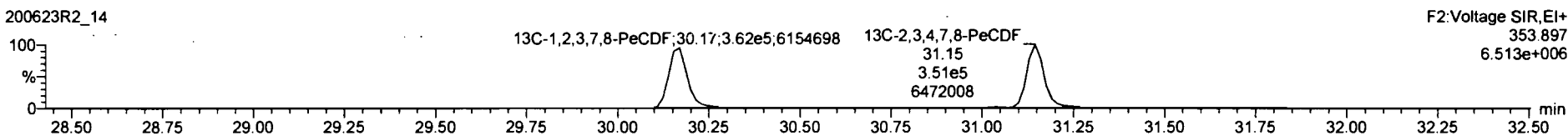


13C-1,2,3,7,8-PeCDF

200623R2_14

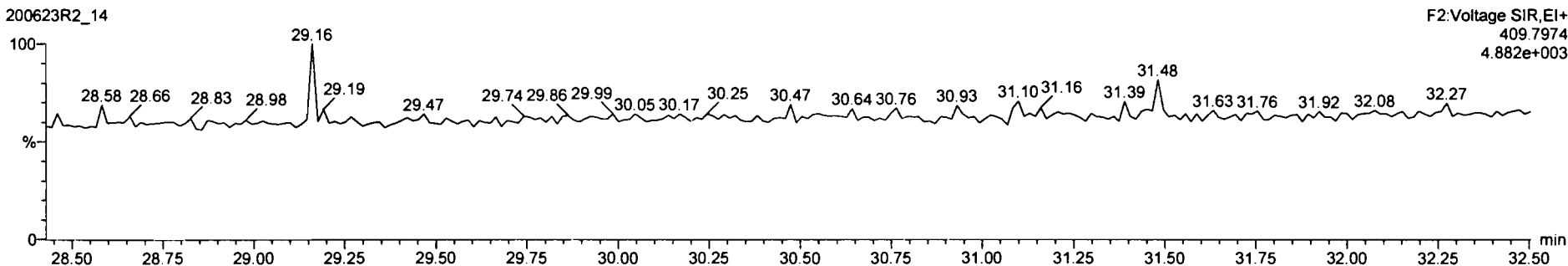


200623R2_14



DPE2

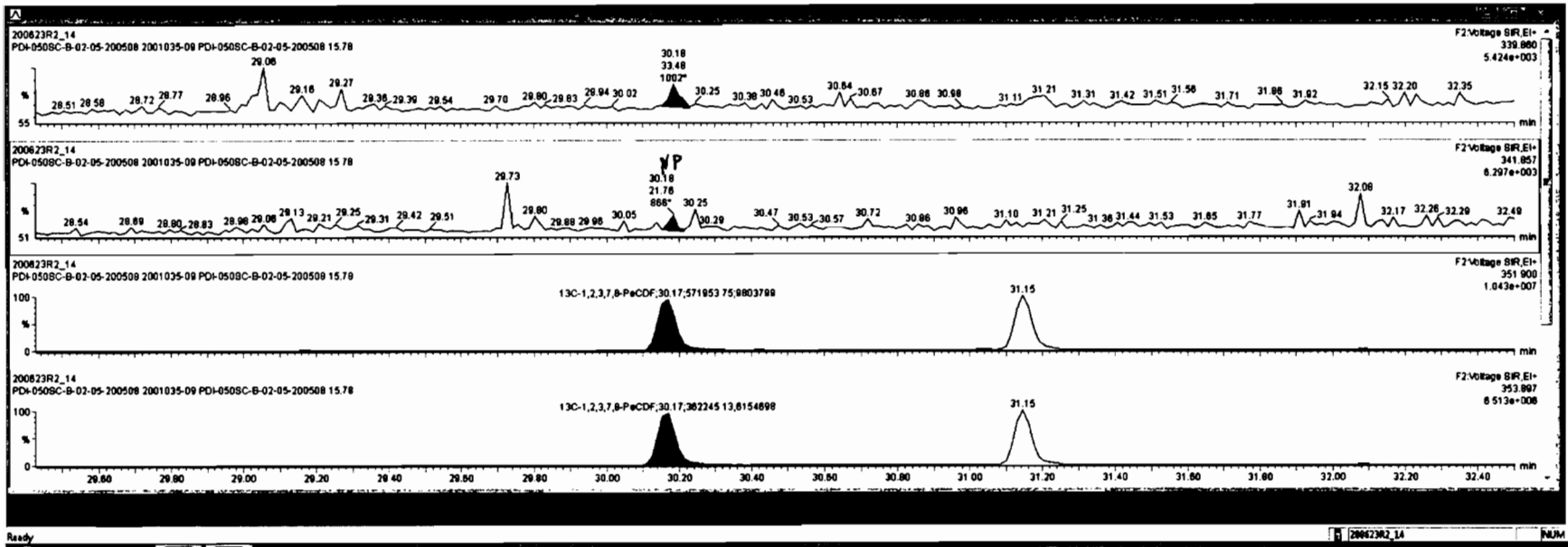
200623R2_14





Peak	Retention Time (min)	Area	Height	Width	Integration	Response	Concentration
62	10.107	0.7510	23.81		0.286	0.0466	0.334
63	10.107	0.8825	27.50			0.00770	
64	10.107	0.8341	33.95			0.0230	
67	10.107	0.8734	37.83			0.0338	

Sample	Peak	Area	Height	Width	Integration	Response	Concentration



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

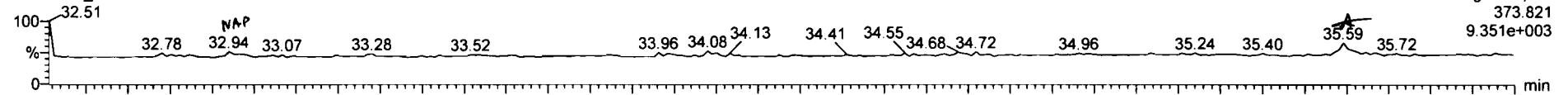
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

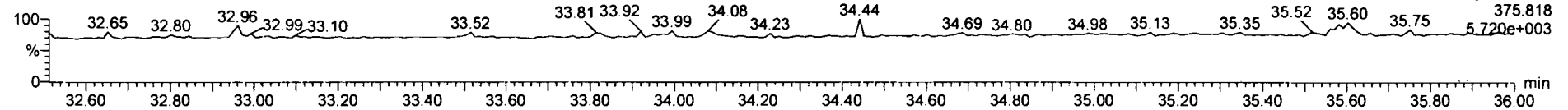
HN 07/17/2020

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

200623R2_14

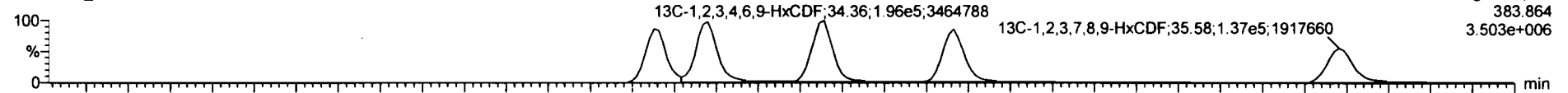


200623R2_14

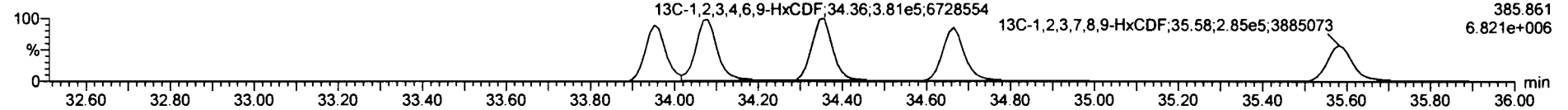


13C-1,2,3,4,7,8-HxCDF

200623R2_14

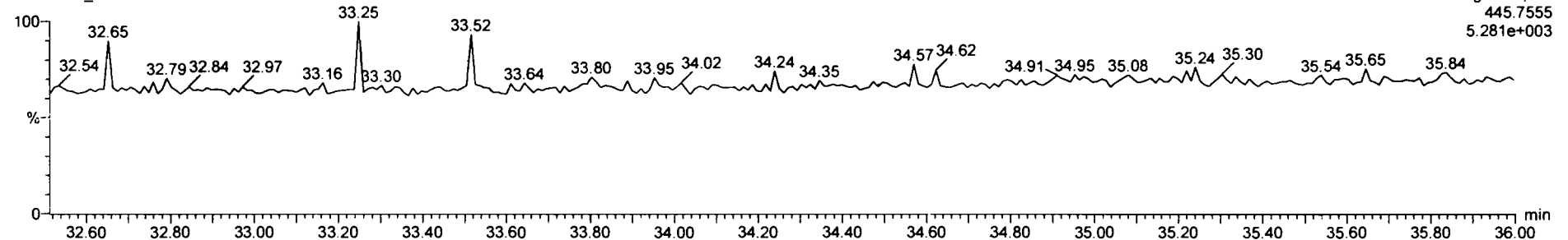


200623R2_14



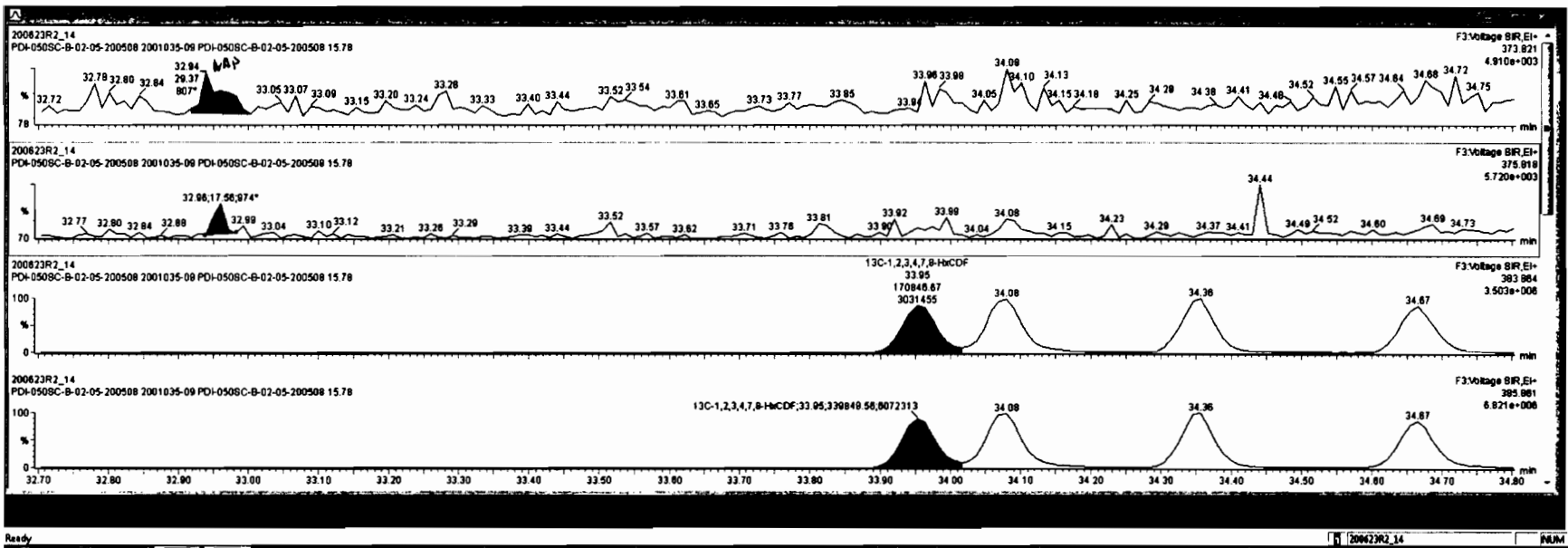
DPE3

200623R2_14



Name	RT	Area	Height	Width	Area%	Height%	Width%
49: Total Tetra-Furans	0.7510	10.107	23.81		0.288	0.0488	0.334
49: 1st Func. Penta-Furans	0.8825	10.107	27.58			0.00770	
49: Total Penta-Furans	0.8825	10.107	28.27			0.0138	
49: Total Hepta-Furans	0.8734	10.107	37.83			0.0338	

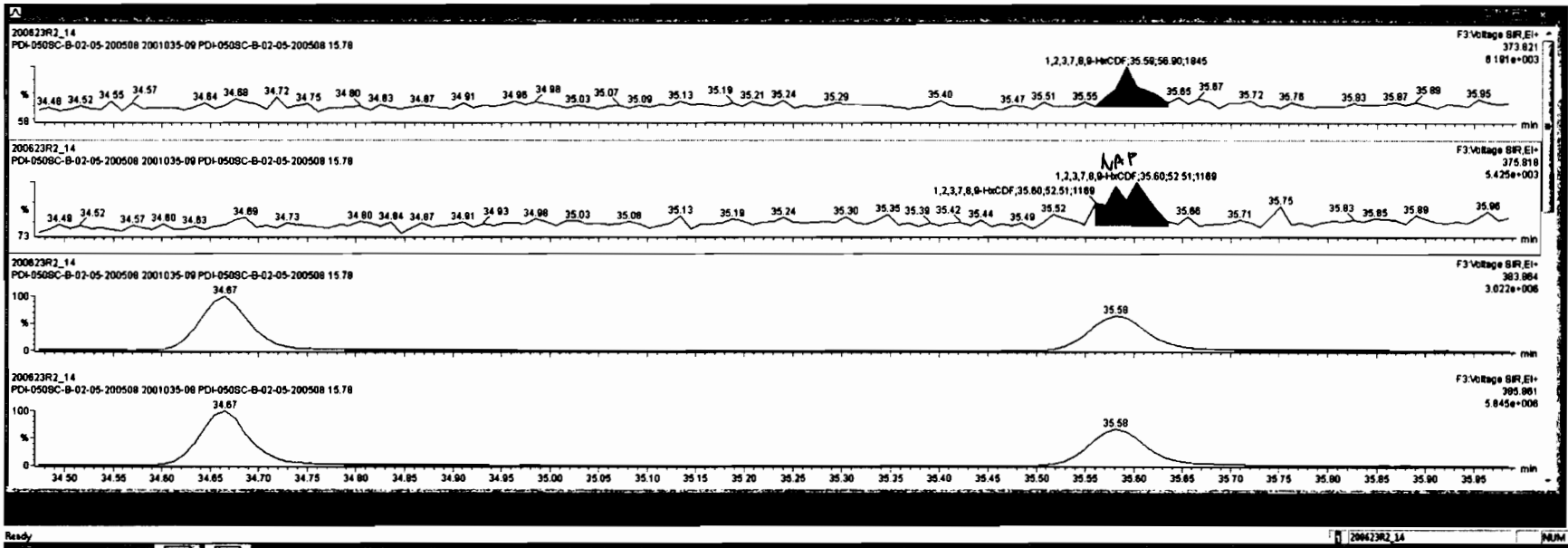
Name	RT	Area	Height	Width	Area%	Height%	Width%
1: 1,2,3,4,7,8-HxCDF	33.95	5.880e1	5.251e1	1.08	NO	0.058804	0.058804



File Edit View Display Processing Windows Help
 200623R2_14

RT	Area	Height	Area%	Height%	Retention	Integration	Integration	Integration	
48	Total Triis-Furans		0.7510	10.107	23.81		0.268	0.0488	0.334
49	1st Func. Penta-Furans		0.8625	10.107	27.38			0.00770	
50	Total Penta-Furans		0.8625	10.107	28.27			0.0138	
51	Total Hexa-Furans		0.8734	10.107	37.83			0.0338	

RT	Area	Height	Area%	Height%	Retention	Integration	Integration	Integration
5	Total Hexa-Furans	32.84	2.837e1	1.790e1	1.87	YES	0.018181	0.00000
2	1,2,3,7,8,9-HxCDF	35.58	5.890e1	5.251e1	1.08	NO	0.058804	0.058804



Dataset: Untitled

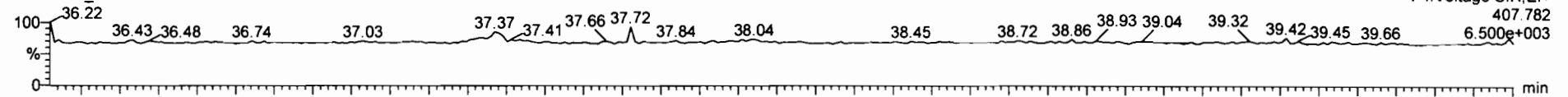
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

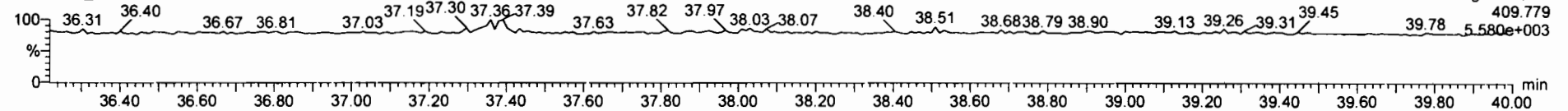
Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

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

200623R2_14

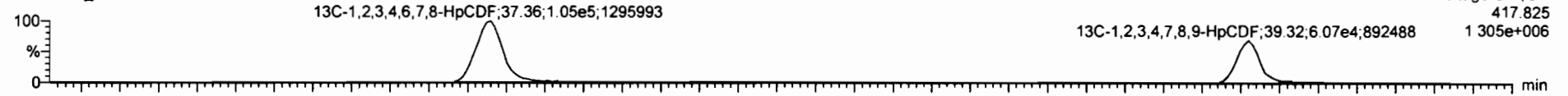


200623R2_14

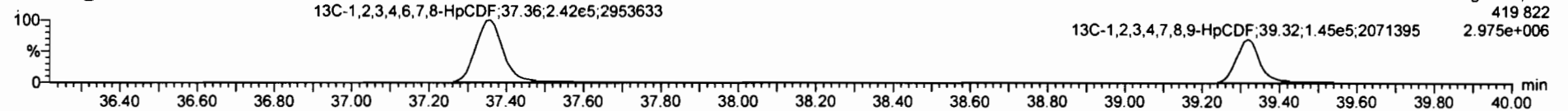


13C-1,2,3,4,6,7,8-HpCDF

200623R2_14

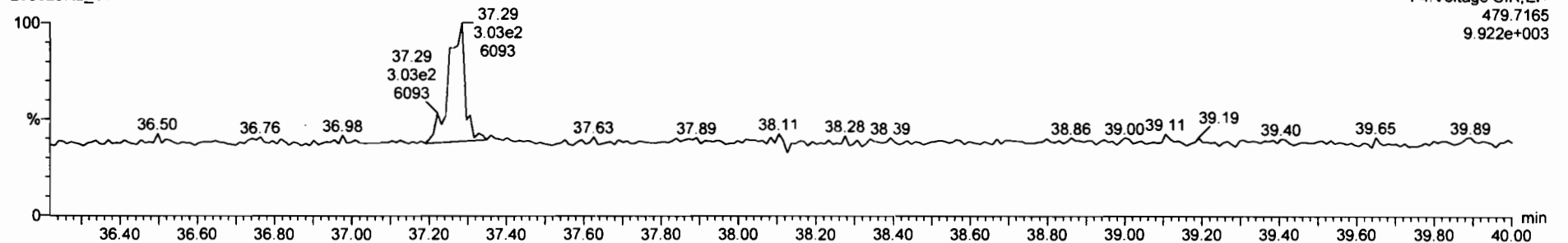


200623R2_14



DPE4

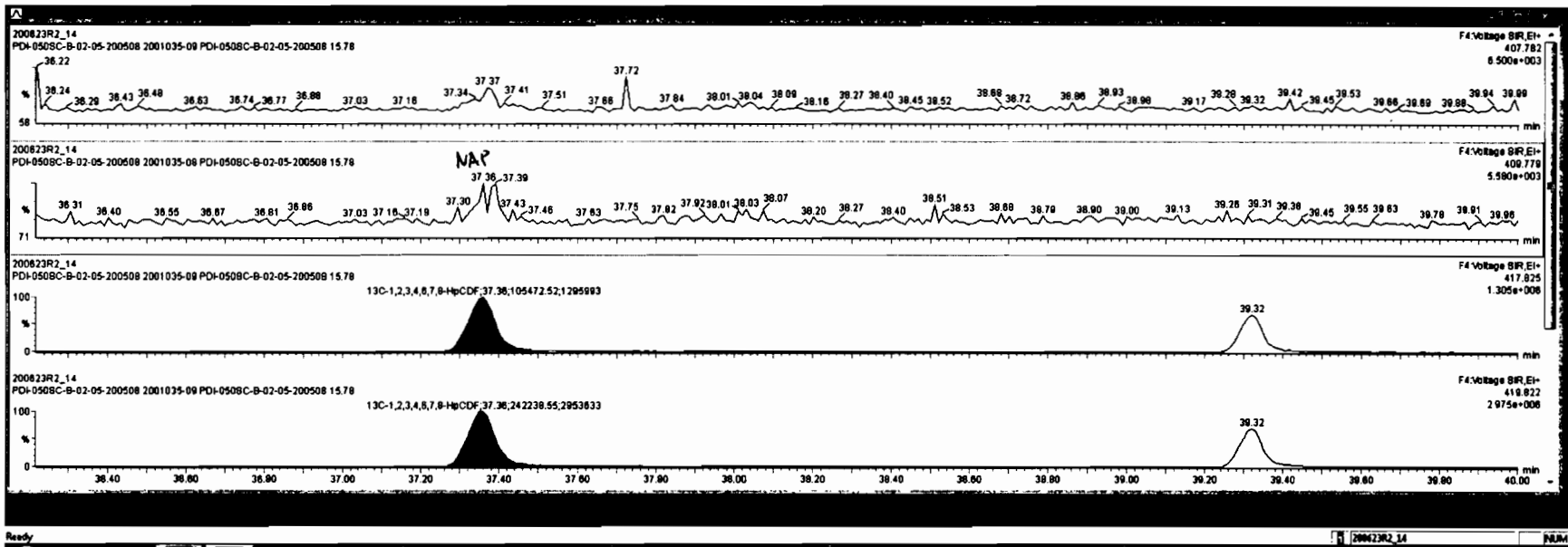
200623R2_14



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Peak	Retention Time (min)	Area	Height	Width	Integration	Response	Concentration
45	10.107	23.81				0.288	0.334
46	10.107	27.58				0.00770	
48	10.107	26.27				0.0158	
49	10.107	33.58				0.0590	0.0689

Name	RT	Area	Height	Width	Integration	Response	Concentration

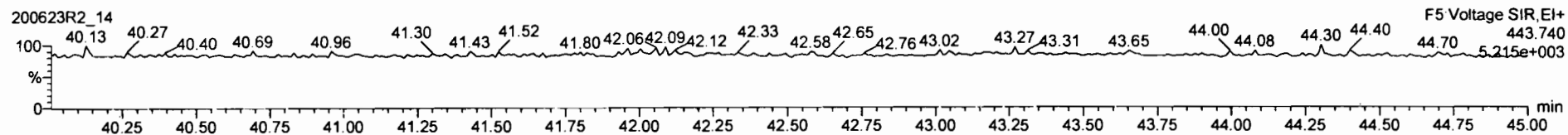
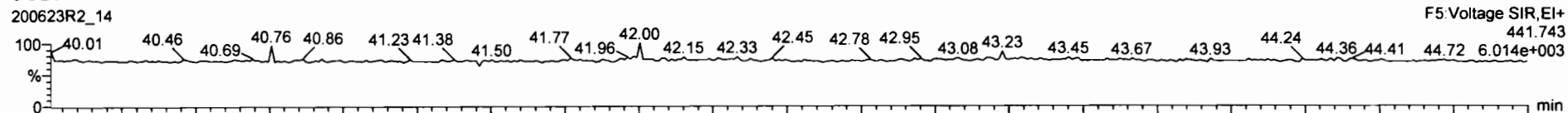


Dataset: Untitled

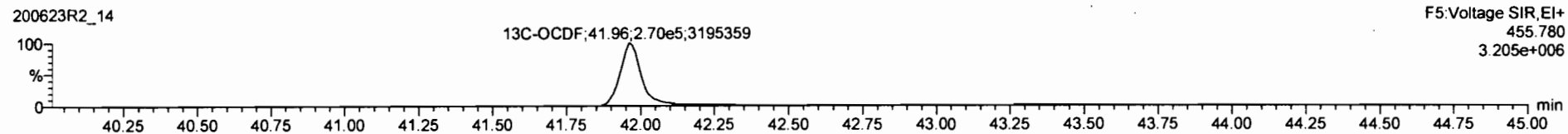
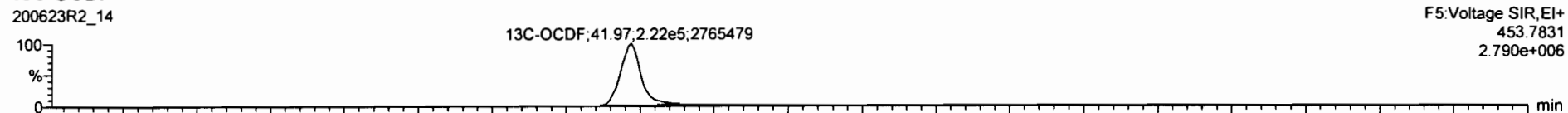
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508

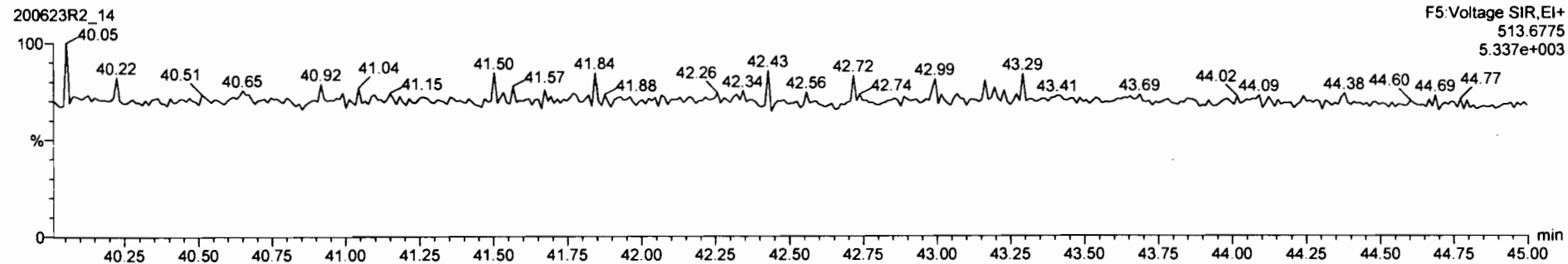
OCDF



13C-OCDF



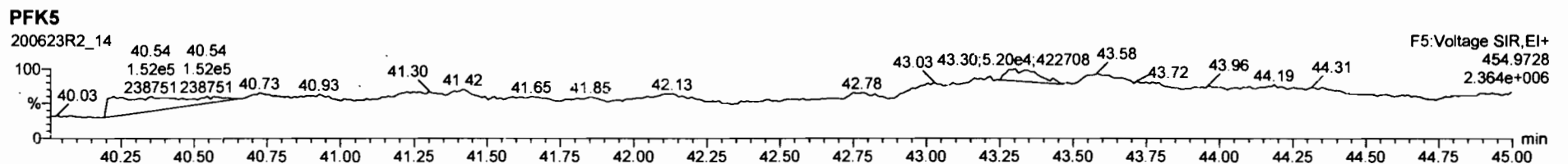
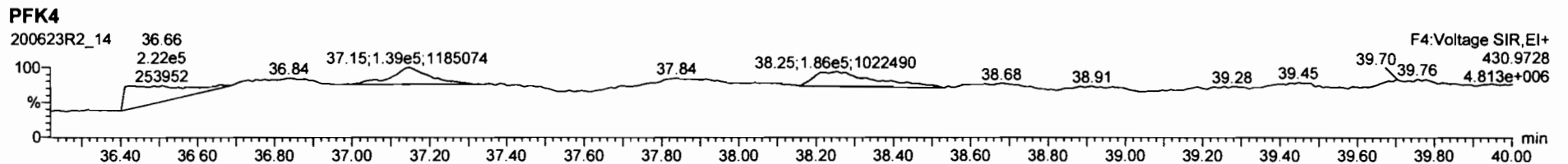
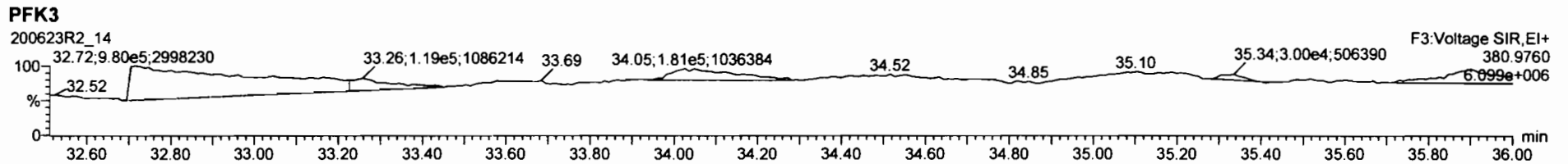
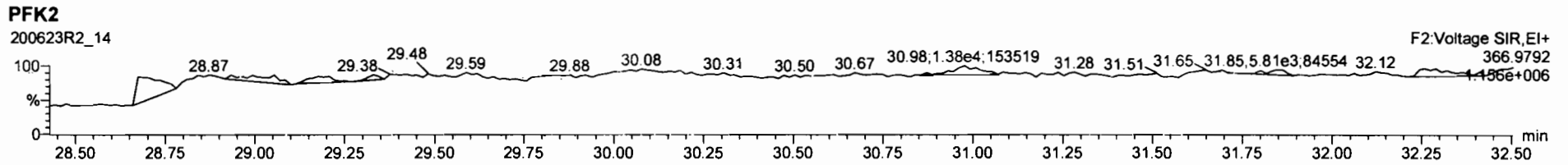
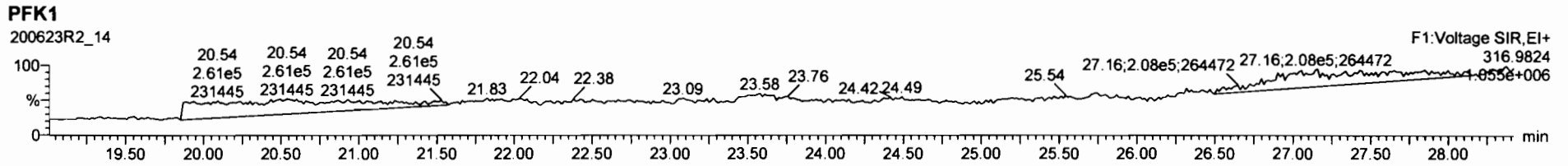
DPE5



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_14, Date: 24-Jun-2020, Time: 01:06:04, ID: 2001035-09 PDI-050SC-B-02-05-200508 15.78, Description: PDI-050SC-B-02-05-200508



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-15C.qld

Last Altered: Wednesday, July 01, 2020 2:43:47 PM Pacific Daylight Time

Printed: Wednesday, July 01, 2020 2:47:50 PM Pacific Daylight Time

HN 07/01/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

C7/17/2020

Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	MRM	CE	EMPC
1	2,3,7,8-TCDD			NO	0.888	10.072	26.501		1.001				0.0681	
2	1,2,3,7,8-PeCDD			NO	0.908	10.072	31.457		1.001				0.0869	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.072	34.835		1.000				0.107	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.072	34.932		1.000				0.104	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.072	35.219		1.000				0.129	
6	1,2,3,4,6,7,8-HpCDD	1.67e3	0.97	NO	0.864	10.072	38.778	38.79	1.000	1.001	1.3175		0.167	1.32
7	OCDD	1.05e4	0.90	NO	0.914	10.072	41.769	41.78	1.000	1.000	10.925		0.266	10.9
8	2,3,7,8-TCDF			NO	0.751	10.072	25.612		1.001				0.0396	
9	1,2,3,7,8-PeCDF			NO	0.893	10.072	30.175		1.001				0.0260	
10	2,3,4,7,8-PeCDF			NO	0.935	10.072	31.176		1.001				0.0242	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.072	33.952		1.000				0.0380	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.072	34.079		1.000				0.0332	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.072	34.690		1.001				0.0386	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.072	35.571		1.000				0.0626	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.072	37.386		1.001				0.0622	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.072	39.309		1.000				0.0811	
17	OCDF			NO	0.806	10.072	41.961		1.000				0.118	
18	13C-2,3,7,8-TCDD	7.10e5	0.78	NO	1.16	10.072	26.491	26.47	1.026	1.026	199.87	101	0.264	
19	13C-1,2,3,7,8-PeCDD	6.37e5	0.63	NO	0.849	10.072	31.674	31.43	1.227	1.218	244.57	123	0.269	
20	13C-1,2,3,4,7,8-HxCDD	4.01e5	1.33	NO	0.779	10.072	34.830	34.83	1.014	1.014	177.08	89.2	0.599	
21	13C-1,2,3,6,7,8-HxCDD	5.04e5	1.22	NO	1.02	10.072	34.944	34.93	1.017	1.017	170.51	85.9	0.459	
22	13C-1,2,3,7,8,9-HxCDD	4.48e5	1.28	NO	0.903	10.072	35.215	35.21	1.025	1.025	170.93	86.1	0.517	
23	13C-1,2,3,4,6,7,8-HpCDD	2.92e5	1.06	NO	0.689	10.072	38.739	38.77	1.128	1.129	145.64	73.3	0.532	
24	13C-OCDD	4.20e5	0.83	NO	0.652	10.072	41.761	41.77	1.216	1.216	221.42	55.8	0.462	
25	13C-2,3,7,8-TCDF	8.89e5	0.79	NO	1.06	10.072	25.534	25.59	0.989	0.991	183.56	92.4	0.308	
26	13C-1,2,3,7,8-PeCDF	9.74e5	1.56	NO	0.838	10.072	30.058	30.15	1.165	1.168	254.37	128	0.722	
27	13C-2,3,4,7,8-PeCDF	9.59e5	1.57	NO	0.817	10.072	31.011	31.15	1.202	1.207	256.98	129	0.741	
28	13C-1,2,3,4,7,8-HxCDF	5.36e5	0.50	NO	1.01	10.072	33.961	33.95	0.989	0.989	183.01	92.2	0.806	
29	13C-1,2,3,6,7,8-HxCDF	6.39e5	0.50	NO	1.17	10.072	34.085	34.07	0.992	0.992	188.51	94.9	0.696	
30	13C-2,3,4,6,7,8-HxCDF	5.32e5	0.51	NO	1.02	10.072	34.659	34.65	1.009	1.009	179.15	90.2	0.795	
31	13C-1,2,3,7,8,9-HxCDF	4.21e5	0.54	NO	0.860	10.072	35.558	35.57	1.035	1.036	168.40	84.8	0.945	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-15C.qld

Last Altered: Wednesday, July 01, 2020 2:43:47 PM Pacific Daylight Time
Printed: Wednesday, July 01, 2020 2:47:50 PM Pacific Daylight Time

Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	End.RT	RRT	Conc.	%	DL	STP
32	13C-1,2,3,4,6,7,8-HpCDF	3.73e5	0.43	NO	0.774	10.072	37.307	37.35	1.086	1.087	165.75	83.5	0.500	
33	13C-1,2,3,4,7,8,9-HpCDF	2.07e5	0.44	NO	0.521	10.072	39.336	39.31	1.145	1.145	136.69	68.8	0.744	
34	13C-OCDF	4.99e5	0.90	NO	0.746	10.072	41.933	41.96	1.221	1.222	230.40	58.0	0.545	
35	37Cl-2,3,7,8-TCDD	2.53e5			1.04	10.072	26.522	26.50	1.028	1.027	79.485	100	0.0485	
36	13C-1,2,3,4-TCDD	6.10e5	0.77	NO	1.00	10.072	25.890	25.81	1.000	1.000	198.56	100	0.306	
37	13C-1,2,3,4-TCDF	9.08e5	0.79	NO	1.00	10.072	24.360	24.13	1.000	1.000	198.56	100	0.326	
38	13C-1,2,3,4,6,9-HxCDF	5.77e5	0.51	NO	1.00	10.072	34.420	34.35	1.000	1.000	198.56	100	0.812	
39	Total Tetra-Dioxins				0.888	10.072	24.620		0.000		0.27114		0.0681	0.301
40	Total Penta-Dioxins				0.908	10.072	29.960		0.000		0.17227		0.0869	0.268
41	Total Hexa-Dioxins				0.892	10.072	33.635		0.000		0.96982		0.118	0.970
42	Total Hepta-Dioxins				0.864	10.072	37.640		0.000		3.4284		0.167	3.43
43	Total Tetra-Furans				0.751	10.072	23.610		0.000		0.24657		0.0396	0.247
44	1st Func. Penta-Furans				0.893	10.072	27.580		0.000				0.00896	
45	Total Penta-Furans				0.893	10.072	29.275		0.000				0.0128	
46	Total Hexa-Furans				0.934	10.072	33.555		0.000				0.0211	
47	Total Hepta-Furans				0.873	10.072	37.835		0.000				0.0391	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-15C.qld

Last Altered: Wednesday, July 01, 2020 2:43:47 PM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.47	2.217e3	1.045e3	6.828e1	5.343e1	1.28	YES	0.000e0	0.00000	0.029796	0.0681
Total Tetra-Dioxins	24.30	4.601e3	9.102e3	3.766e2	4.840e2	0.78	NO	8.606e2	0.27114	0.27114	0.0681

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.21	2.098e3	2.032e3	1.159e2	1.441e2	0.80	YES	0.000e0	0.00000	0.080559	0.0869
Total Penta-Dioxins	29.73	4.580e3	5.857e3	1.937e2	3.085e2	0.63	NO	5.022e2	0.17227	0.17227	0.0869
Total Penta-Dioxins	31.83	1.179e3	1.544e3	2.115e1	2.722e1	0.78	YES	0.000e0	0.00000	0.015218	0.0869

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.32	2.112e4	1.661e4	1.049e3	9.171e2	1.14	NO	1.966e3	0.96982	0.96982	0.118

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.76	1.684e4	1.720e4	1.332e3	1.348e3	0.99	NO	2.679e3	2.1109	2.1109	0.167
1,2,3,4,6,7,8-HpCDD	38.79	1.514e4	1.163e4	8.251e2	8.472e2	0.97	NO	1.672e3	1.3175	1.3175	0.167

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Furans	21.49	5.625e3	5.267e3	3.569e2	4.718e2	0.76	NO	8.287e2	0.24657	0.24657	0.0396

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-15C.qld

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Printed: Wednesday, July 01, 2020 2:47:50 PM Pacific Daylight Time

Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Cond	EMPC	DL
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Cond	EMPC	DL
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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Cond	EMPC	DL
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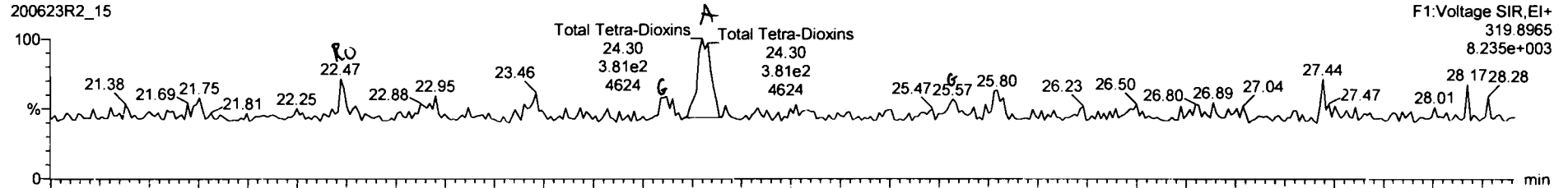
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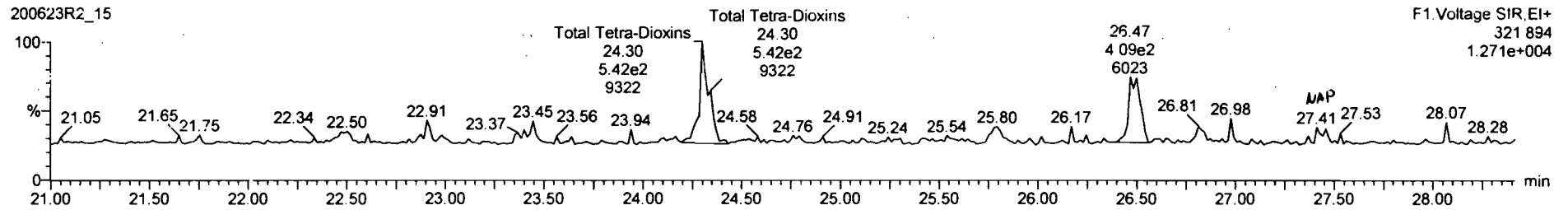
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2,3,7,8-TCDD

200623R2_15

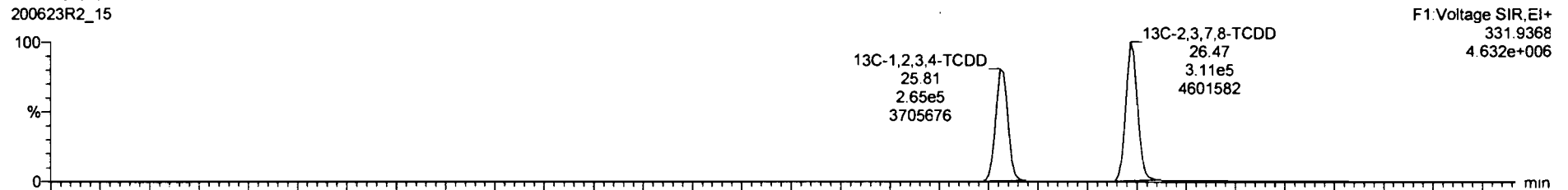


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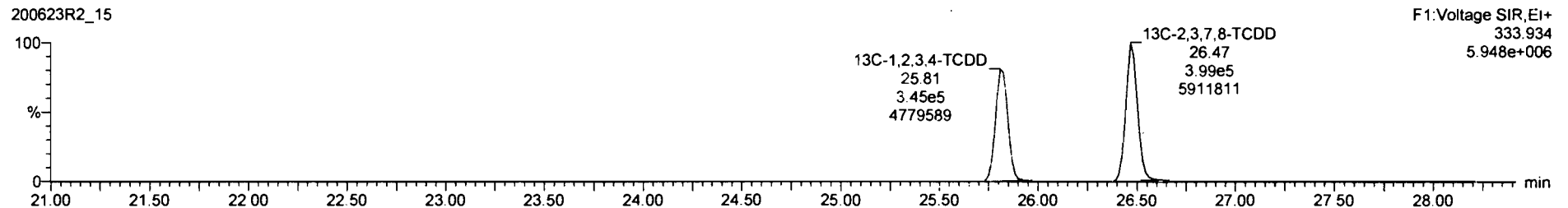


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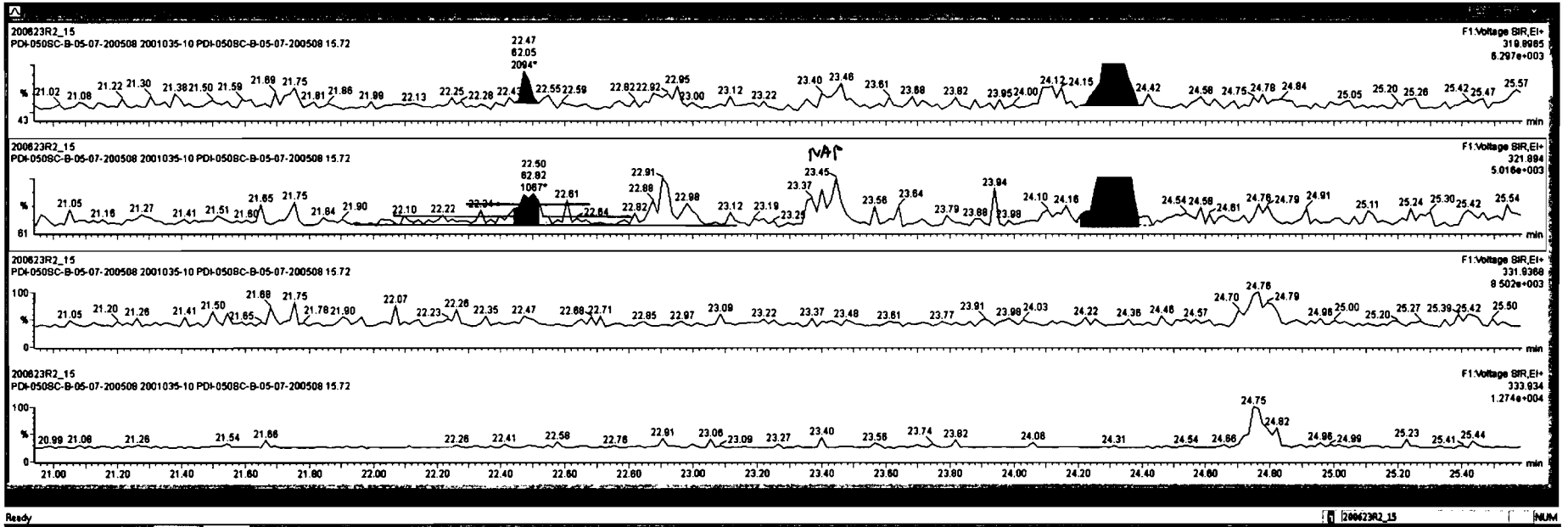


200623R2_15



46.4	Total Para-Dioxine	0.9091	10.072	26.96	0.175	0.0660	0.175
46.5	Total Hexa-Dioxine	0.9623	10.072	33.83	0.990	0.118	1.26
46.6	Total Hepta-Dioxine	0.9539	10.072	37.84	3.38	0.187	3.36
46.7	Total Tetra-Furane	0.7510	10.072	23.81	0.251	0.0308	0.251
46.8	1st Func. Para-Furane	0.8625	10.072	27.58		0.0086	
46.9	Total Para-Furane	0.8625	10.072	28.27		0.0128	
47.0	Total Hexa-Furane	0.8341	10.072	33.66		0.0211	
47.1	Total Hepta-Furane	0.8734	10.072	37.83		0.0361	

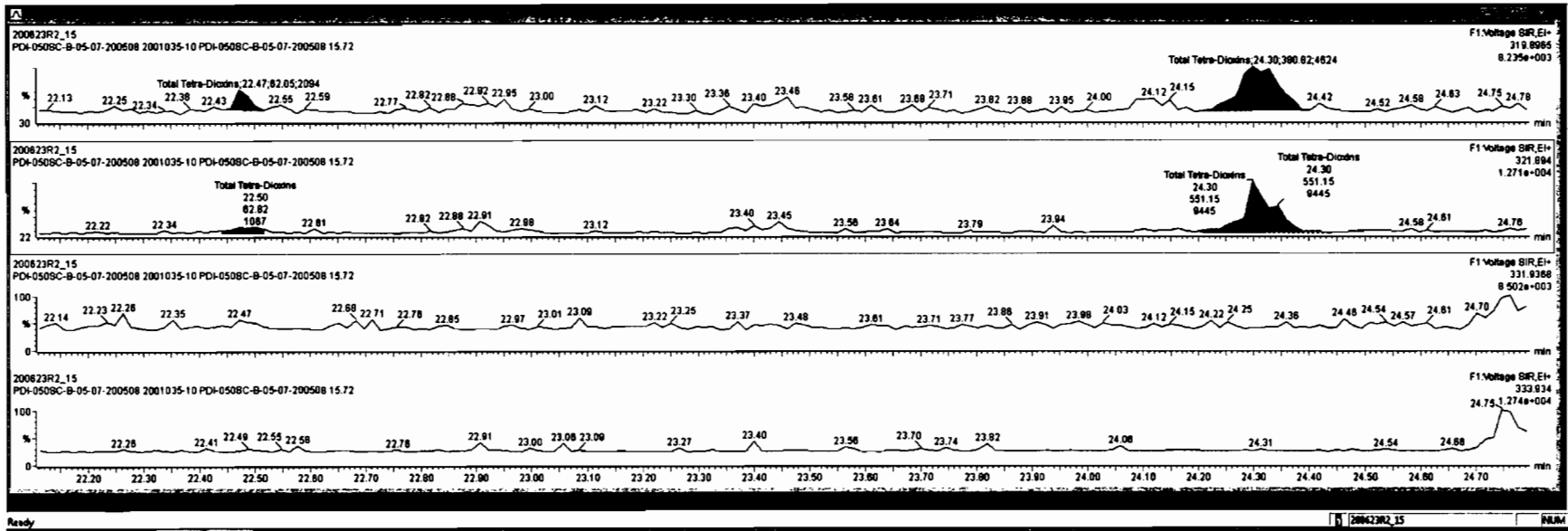
1	Total Tetra-Dioxine	24.30	3.808e2	5.511e2	0.89	NO	0.28362	0.28362
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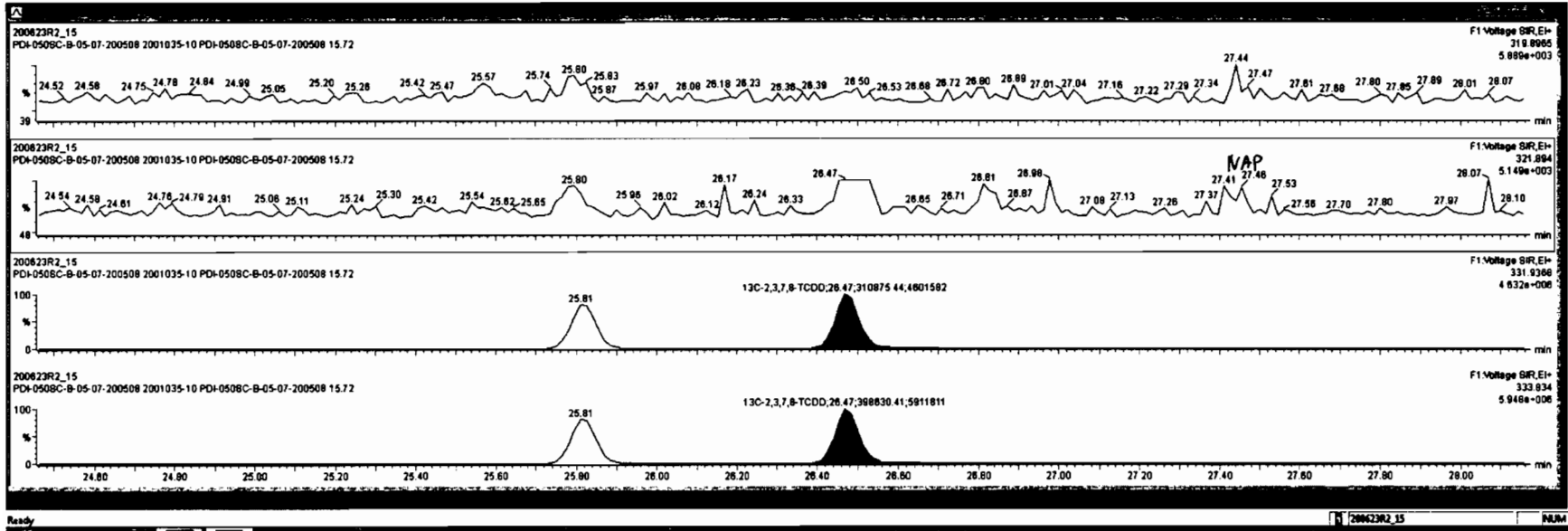
Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
40	Total Penta-Dioxins	0.8081	10.072	28.98			0.175	0.0888	0.175
41	Total Hexa-Dioxins	0.8923	10.072	33.83			0.960	0.118	1.26
42	Total Hepta-Dioxins	0.8636	10.072	37.84			3.38	0.187	3.38
43	Total Tetra-Furans	0.7510	10.072	23.81			0.251	0.0398	0.251
44	1st Func. Penta-Furans	0.8825	10.072	27.58				0.0128	
45	Total Penta-Furans	0.8825	10.072	28.27				0.0211	
46	Total Hexa-Furans	0.8341	10.072	33.58				0.0381	
47	Total Hepta-Furans	0.8734	10.072	37.83					

Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
1	Total Tetra-Dioxins	24.30	3.809e2	5.511e2	0.89	NO	0.28382	0.28382	
2	Total Tetra-Dioxins	22.47	8.206e1	8.282e1	0.96	YES	0.036028	0.00000	



RT	Area	Height	Width	Area%	Height%	Width%
24.30	3.786e2	4.840e2	0.78	NO	0.27114	0.27114

RT	Area	Height	Width	Area%	Height%	Width%
24.30	3.786e2	4.840e2	0.78	NO	0.27114	0.27114



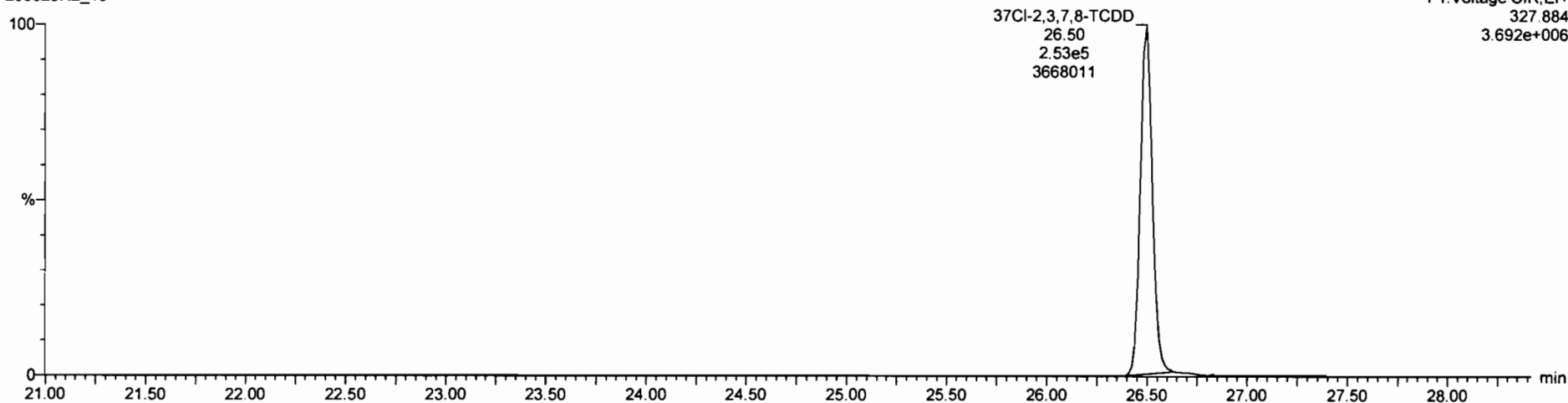
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Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

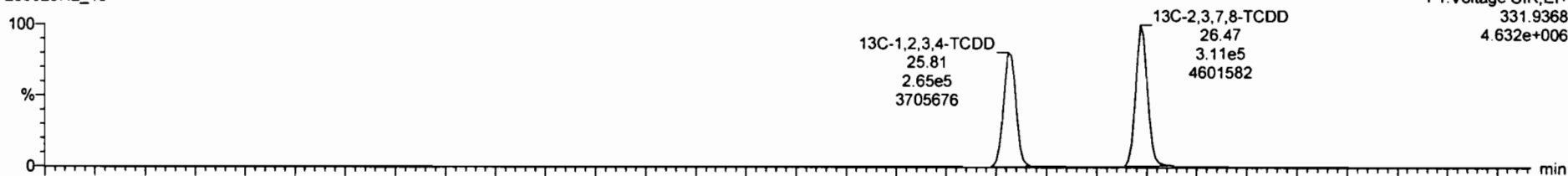
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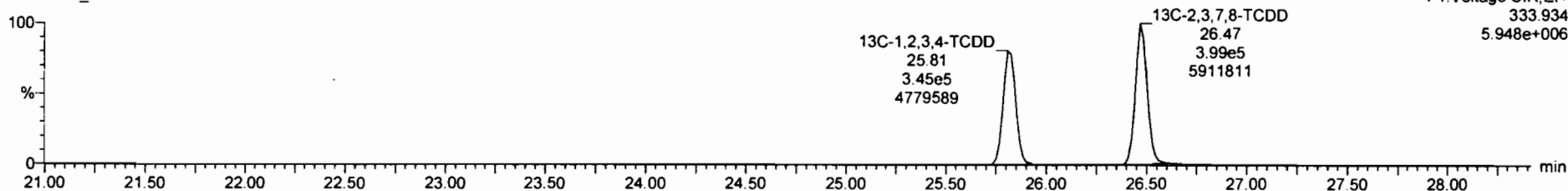


13C-1,2,3,4-TCDD

200623R2_15



200623R2_15



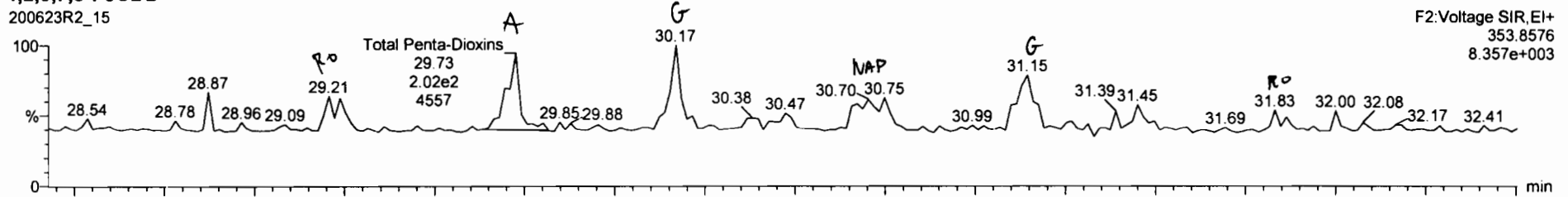
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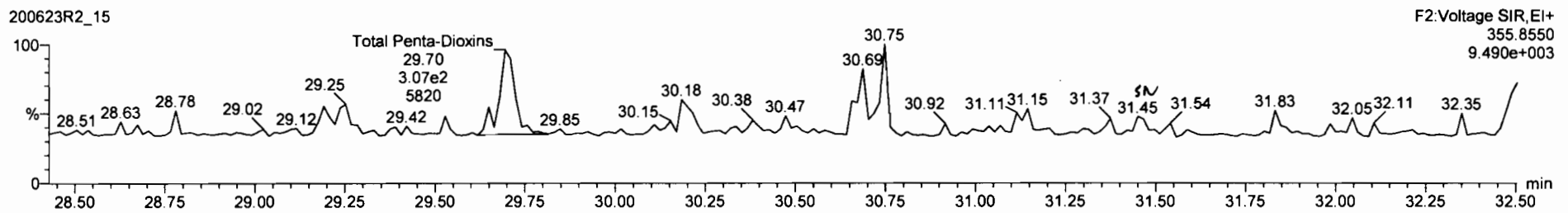
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1,2,3,7,8-PeCDD

200623R2_15

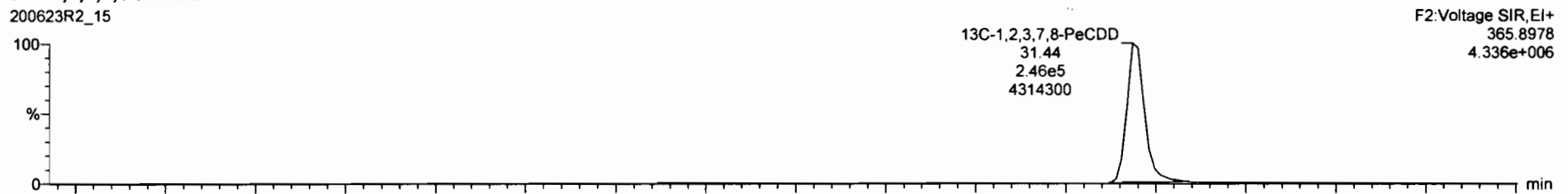


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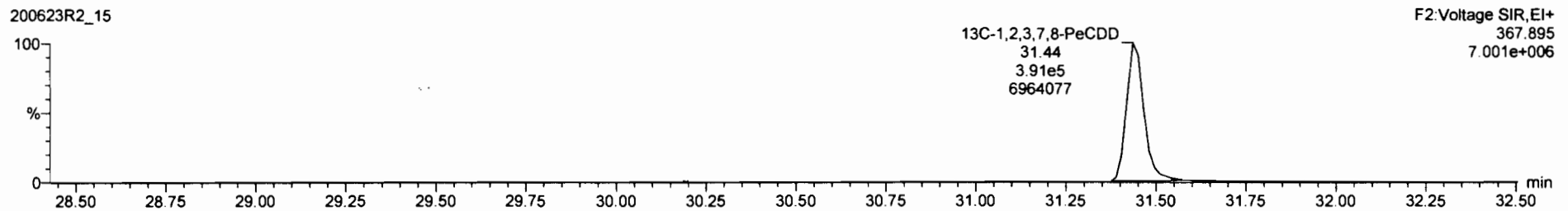


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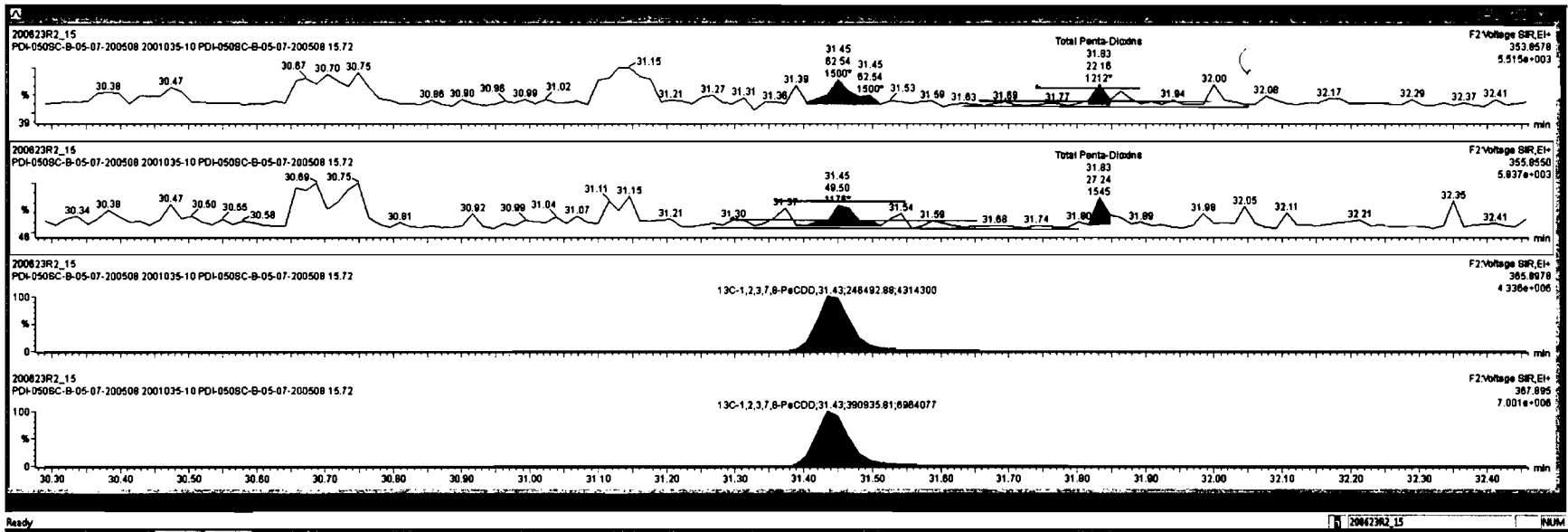


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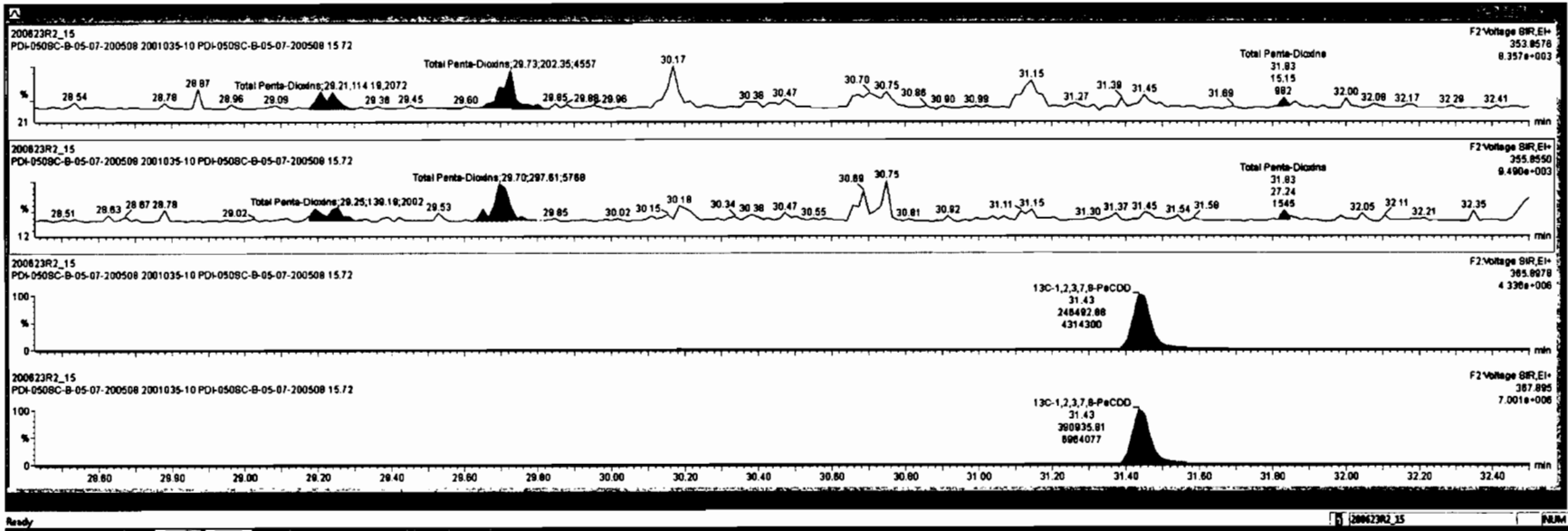
Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration
272	Total Tetra-Dioxins	0.8863	10.072	24.82		0.284	0.0881 0.329
273	Total Hexa-Dioxins	0.8923	10.072	33.83		0.980	0.118 1.28
275	Total Hepta-Dioxins	0.8638	10.072	37.84		3.38	0.187 3.38
276	Total Tetra-Furans	0.7510	10.072	23.81		0.251	0.0388 0.251
277	1st Func. Penta-Furans	0.8925	10.072	27.58			0.00888
278	Total Penta-Furans	0.8925	10.072	28.27			0.0128
279	Total Hexa-Furans	0.8241	10.072	33.58			0.0211
280	Total Hepta-Furans	0.8734	10.072	37.83			0.0381

Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration
281	Total Penta-Dioxins	29.21	1.142e2	1.382e2	0.82	YES	0.077628 0.00000
282	Total Penta-Dioxins	29.73	2.024e2	2.878e2	0.88	NO	0.17151 0.17151
283	Total Penta-Dioxins	31.80	1.515e1	2.724e1	0.58	NO	0.014542 0.014542



RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
28.54	0.0083	10.072	24.82				0.294			0.0081	0.329	
28.87	0.8923	10.072	33.83				0.960			0.118	1.29	
29.09	0.8630	10.072	37.84				3.36			0.187	3.30	
29.38	0.7510	10.072	23.81				0.251			0.0398	0.281	
29.60	0.8925	10.072	27.58							0.0398		
29.85	0.8925	10.072	28.27							0.0128		
30.02	0.8341	10.072	33.58							0.0211		
30.15	0.8734	10.072	37.83							0.0391		

RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
29.21	1.142e2	1.382e2	0.82	YES	0.077628	0.00000						
29.73	2.024e2	2.878e2	0.88	NO	0.17151	0.17151						
31.83	1.515e1	2.724e1	0.58	NO	0.014542	0.014542						



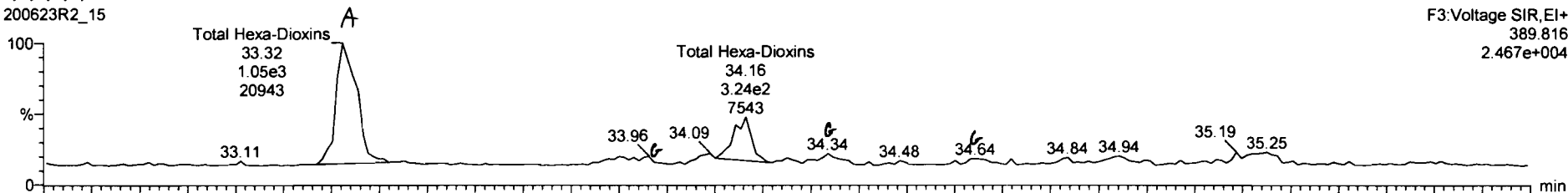
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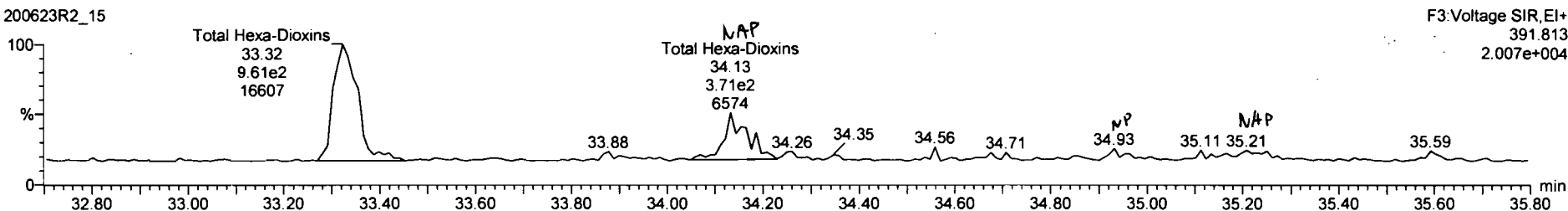
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1,2,3,4,7,8-HxCDD

200623R2_15

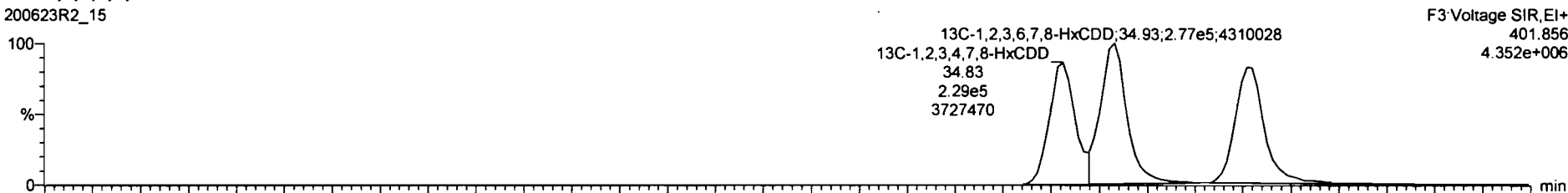


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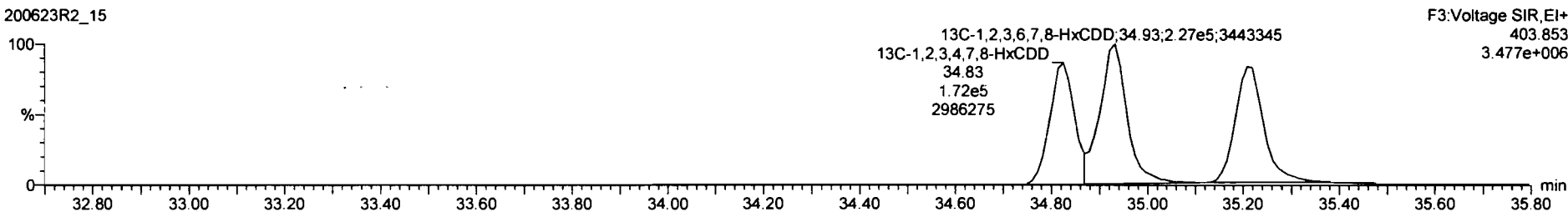


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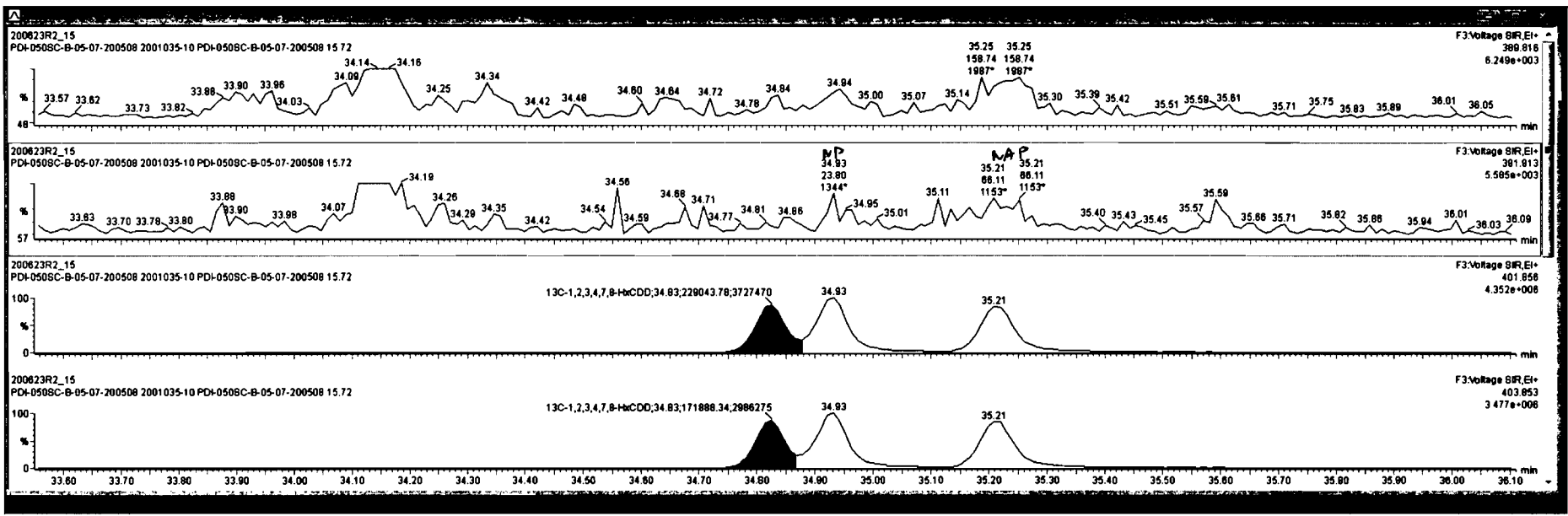


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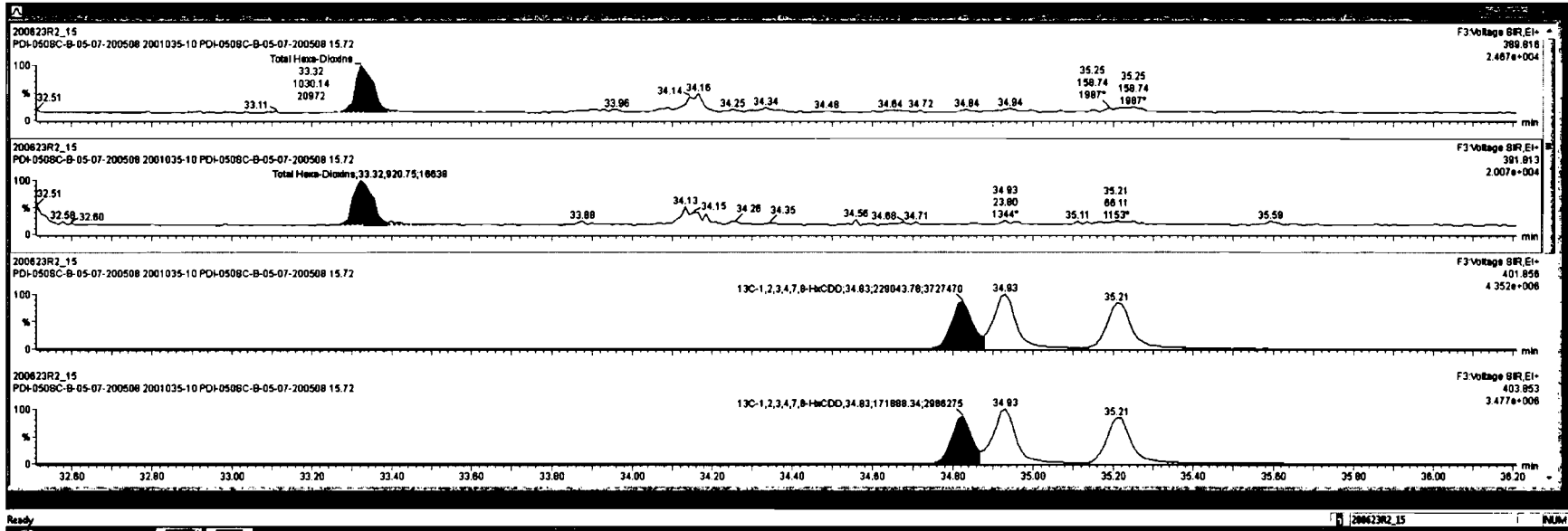
Peak	RT	Area	Height	Width	Conc	Conc	Conc	Conc	Conc	Conc
38	10.072	24.82			0.0983			0.294	0.0691	0.329
40	10.072	26.96			0.9091			0.175	0.0699	0.266
42	10.072	37.64			0.8639			3.36	0.187	3.36
43	10.072	23.81			0.7510			0.251	0.0306	0.251
44	10.072	27.56			0.8625				0.00806	
46	10.072	29.27			0.8625				0.0126	
48	10.072	33.56			0.8341				0.0211	
47	10.072	37.83			0.8734				0.0391	

RT	Area	Height	Width	Conc	Conc
33.32	1.030e3	8.208e2	1.12	NO	0.98241



Peak	Name	Area	Height	Width	Retention	Response	Integration	Integration	Integration
28	Total Tetra-Dioxine	0.8983	10.072	24.82		0.294	0.0091	0.329	
29	Total Penta-Dioxine	0.9091	10.072	28.90		0.175	0.0090	0.280	
30	Total Hexa-Dioxine	0.9638	10.072	37.84		3.38	0.187	3.38	
31	Total Tetra-Furane	0.7510	10.072	23.81		0.251	0.0388	0.251	
34	1st Func. Penta-Furane	0.8625	10.072	27.58			0.0088		
35	Total Penta-Furane	0.8625	10.072	28.27			0.0128		
48	Total Hexa-Furane	0.9341	10.072	33.98			0.0211		
47	Total Hepta-Furane	0.8734	10.072	37.83			0.0381		

Peak	Name	Area	Height	Width	Retention	Response	Integration	Integration	Integration
1	Total Hexa-Dioxine	33.32	1.030e3	8.208e2	1.12	NO	0.98241	0.98241	



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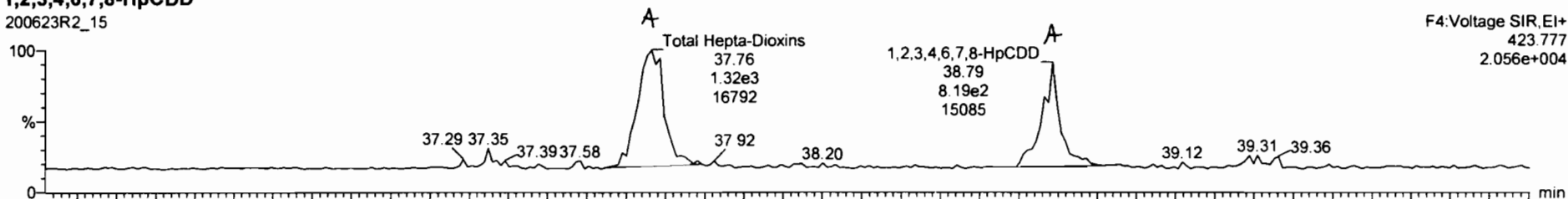
Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

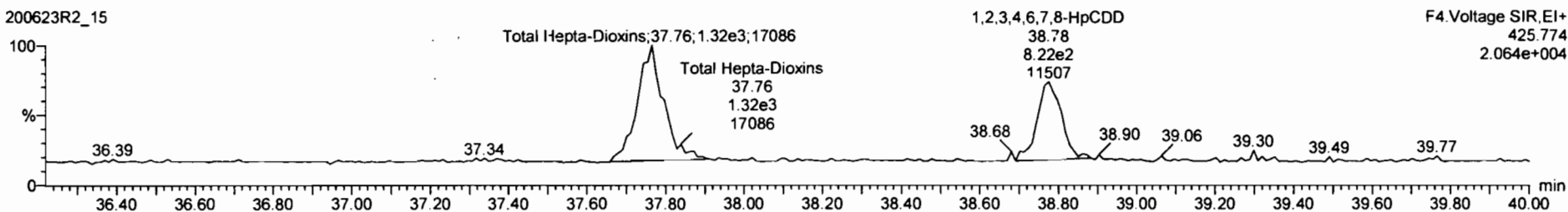
Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

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

200623R2_15

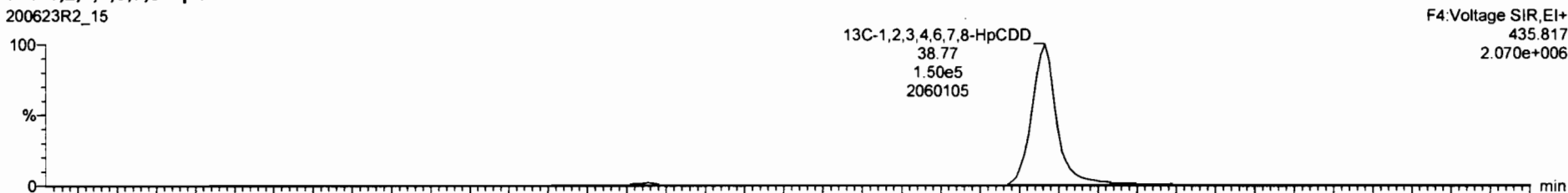


200623R2_15

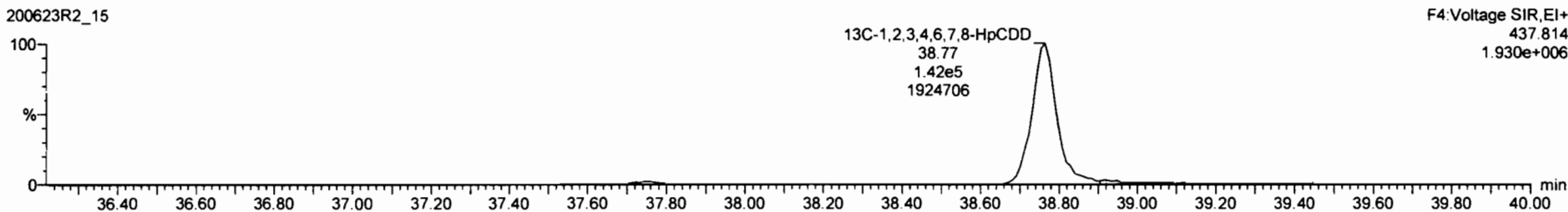


13C-1,2,3,4,6,7,8-HpCDD

200623R2_15

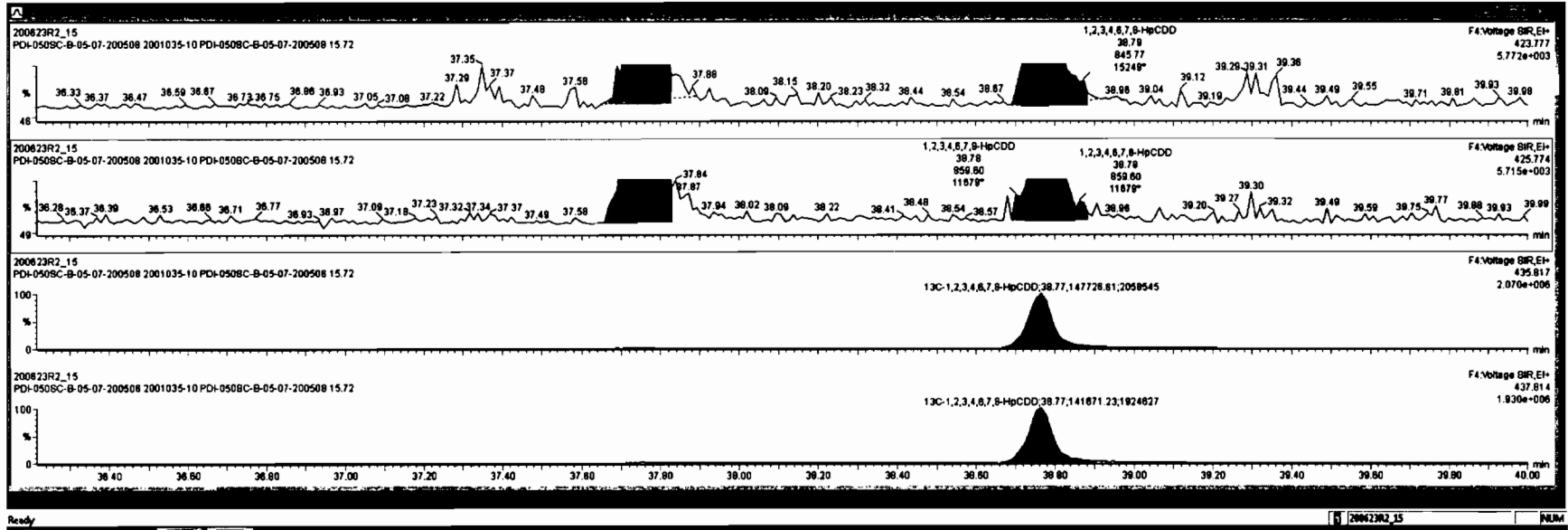


200623R2_15



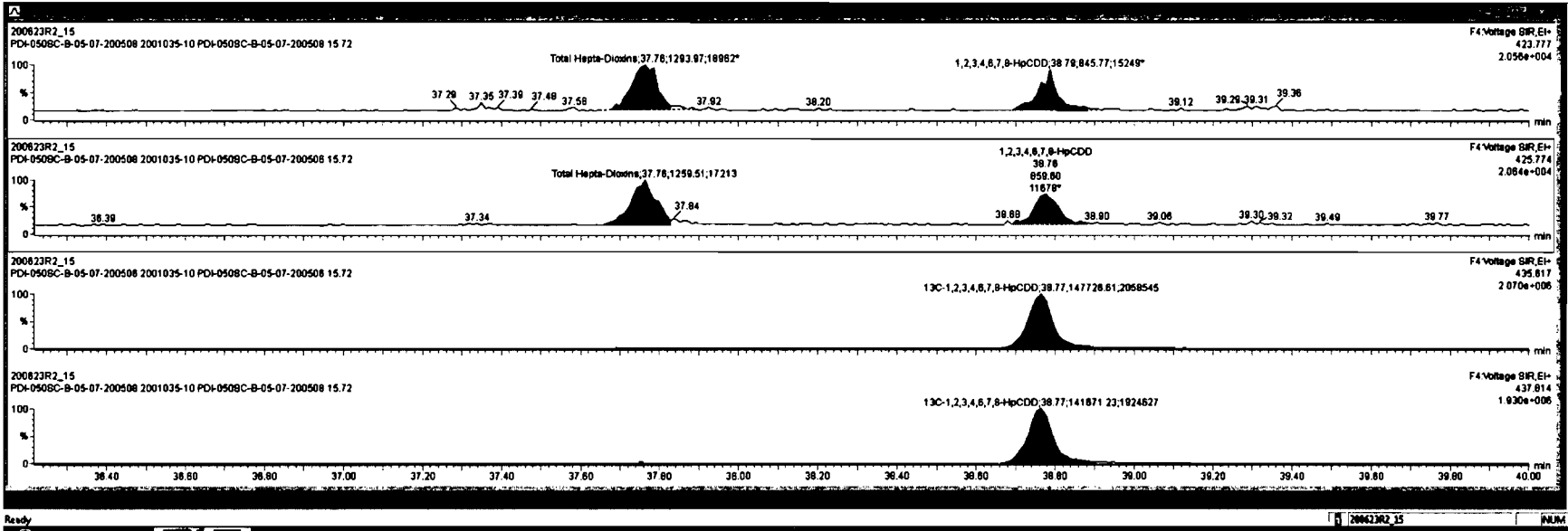
Peak	Retention Time (min)	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	2,3,7,8-TCDD												
2	1,2,3,7,8-PeCDD												0.0980
3	1,2,3,4,7,8-HxCDD												0.107
4	1,2,3,6,7,8-HxCDD												0.104
5	1,2,3,7,8,9-HxCDD												0.129
6	1,2,3,4,6,7,8-HpCDD	1.70e3	0.95	NO	0.8639	10.072	36.79	36.79	1.001	1.35			0.185
7	OCDD												
8	2,3,7,8-TCDF												
9	1,2,3,7,8-PeCDF												0.0280

Peak	Retention Time (min)	Area	Height	Width	Height	Area	Height	Width	Height
6	Total Hepta-Chlorine	37.78	1.280e3	1.280e3	1.02	NO	2.0216	2.0218	
7	1,2,3,4,6,7,8-HpCDD	36.79	8.302e2	8.738e2	0.95	NO	1.3534	1.3534	



Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	2,3,7,8-TCDF												
2	1,2,3,7,8-PeCDD												
3	1,2,3,4,7,8-HxCDD												
4	1,2,3,6,7,8-HxCDD												
5	1,2,3,7,8,9-HxCDD												
6	1,2,3,4,6,7,8-HpCDD	1.70e3	0.85	NO	0.8639	10.072	38.78	38.79	1.001	1.35	0.168	1.35	
7	OCDD												
8	2,3,7,8-TCDF												
9	1,2,3,7,8-PeCDF												

Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height
6	Total Hepta-Dioxins	37.78	1.280e3	1.280e3	1.02	NO	2.0218	2.0218	
2	1,2,3,4,6,7,8-HpCDD	38.78	8.302e2	8.730e2	0.95	NO	1.3634	1.3634	

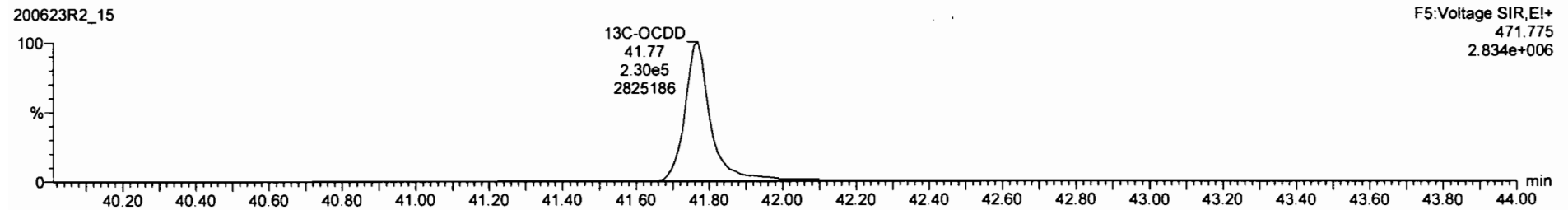
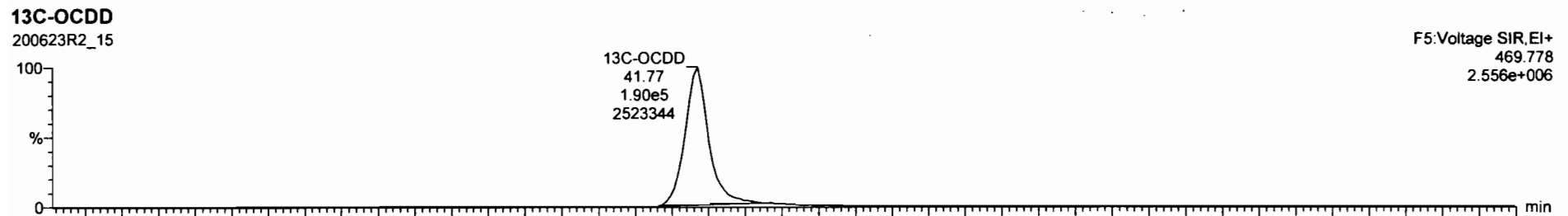
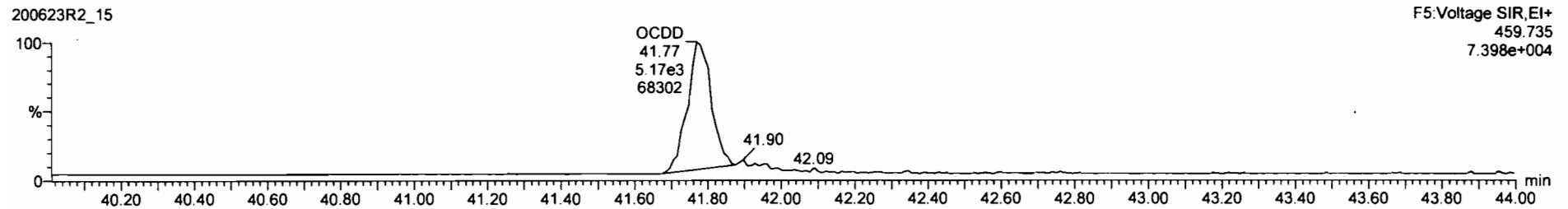
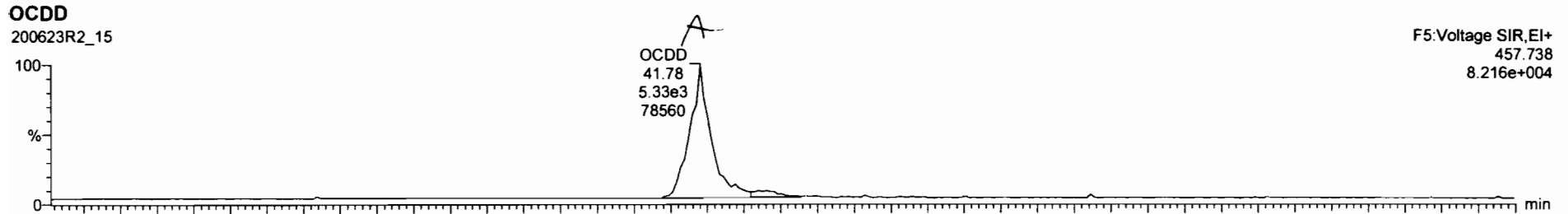


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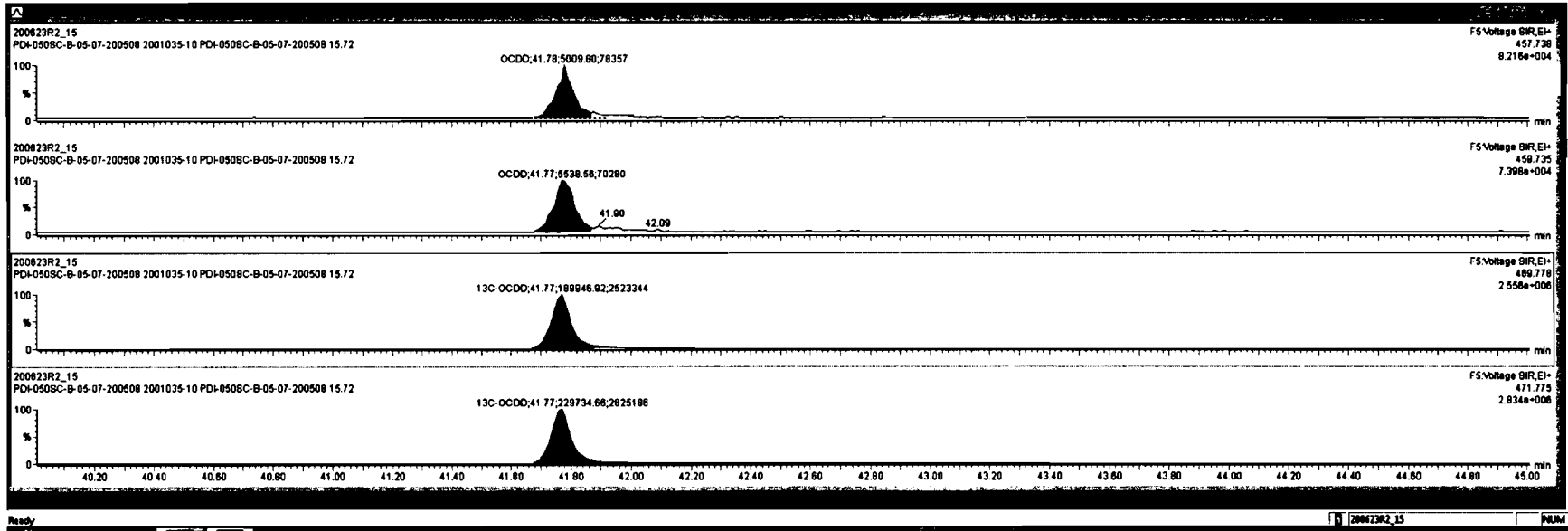
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508



Peak	Retention Time (min)	Area	Height	Width	Resolution	Integration	Signal
1	23.37	10.072	25.81				0.0388
2	1.23.37	10.072	30.18				0.0280
3	23.47	10.072	31.18				0.0242
4	1.23.47	10.072	33.85				0.0280
5	1.23.87	10.072	34.08				0.0332
6	23.48.7	10.072	34.88				0.0388
7	1.23.7	10.072	35.57				0.0626
8	1.23.8.7	10.072	37.38				0.0822

Peak	Retention Time (min)	Area	Height	Width	Resolution	Integration	Signal



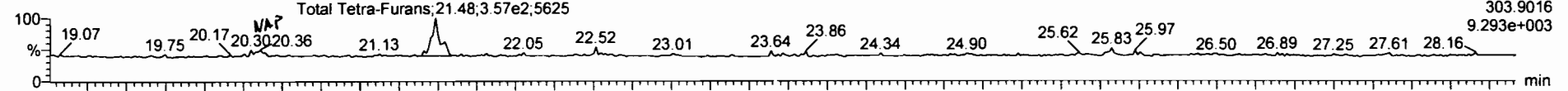
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

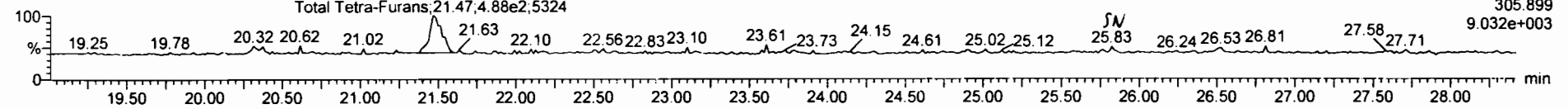
Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

2,3,7,8-TCDF

200623R2_15



200623R2_15

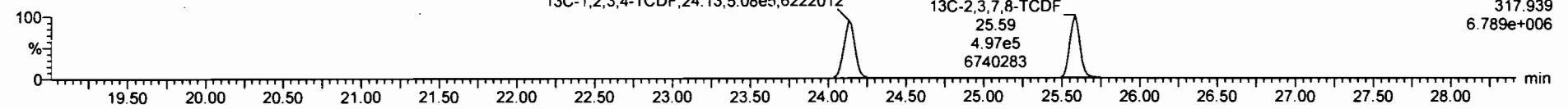


13C-2,3,7,8-TCDF

200623R2_15

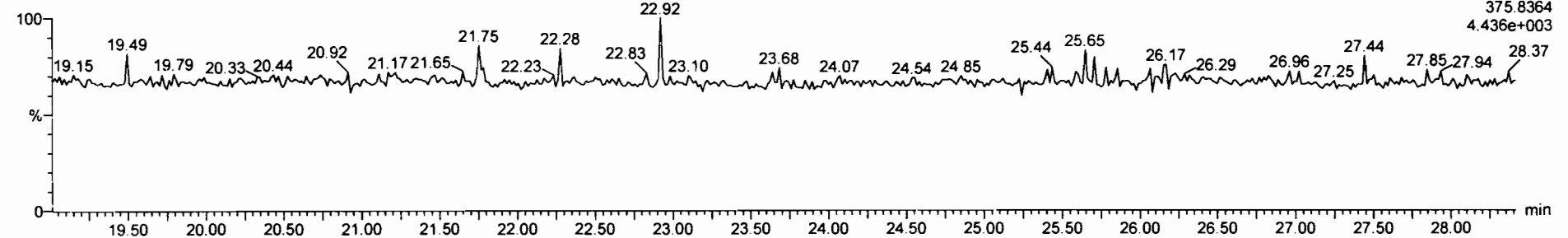


200623R2_15



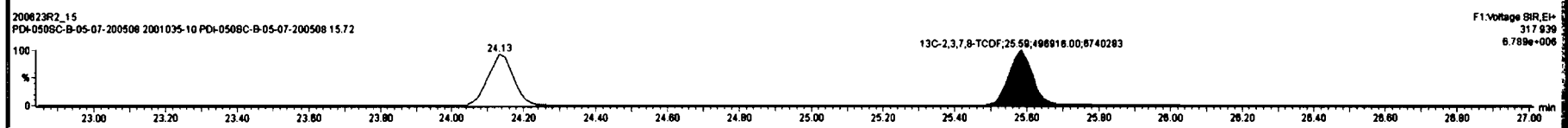
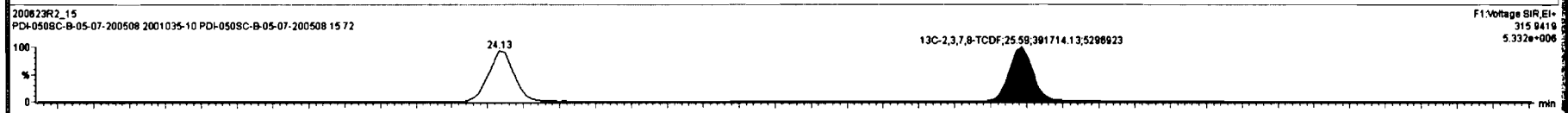
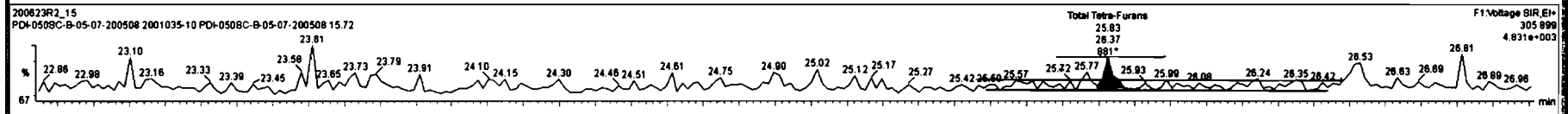
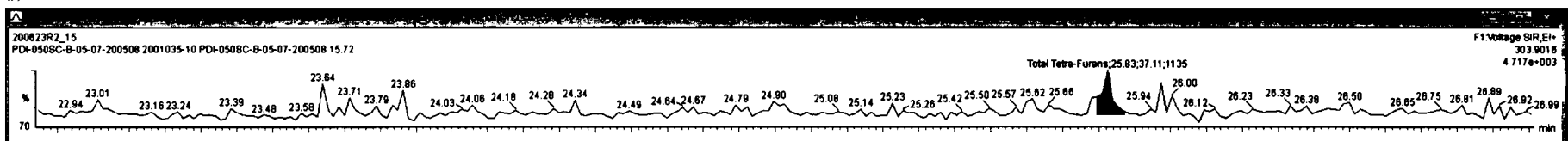
DPE1

200623R2_15



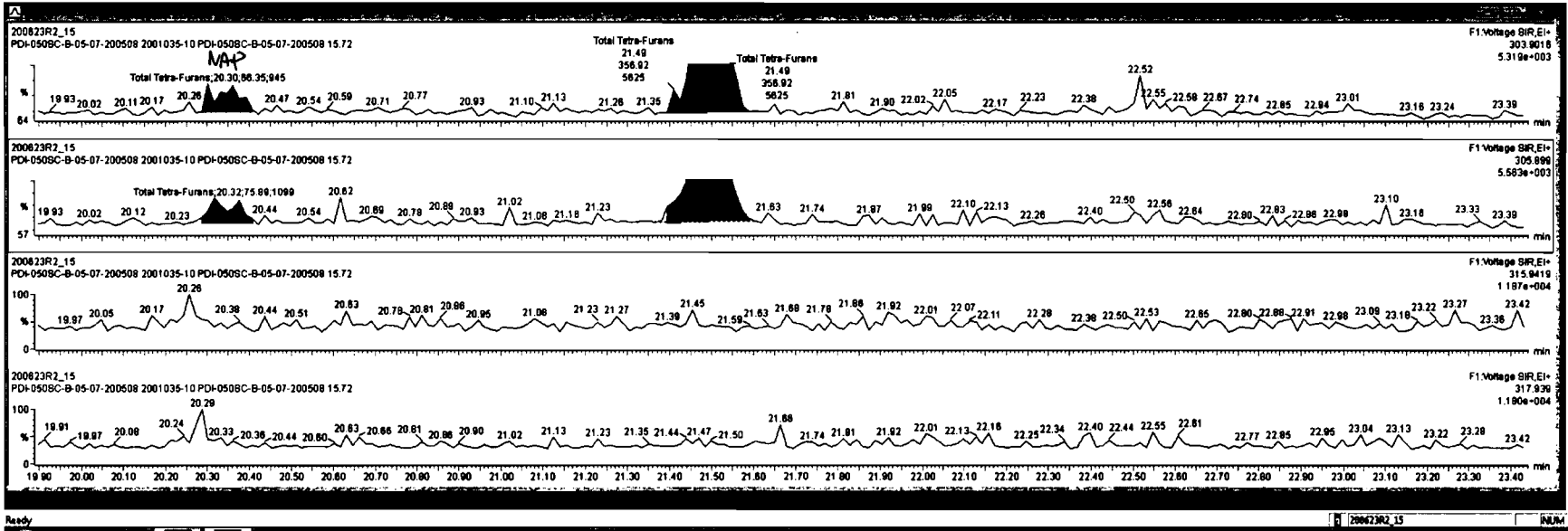
Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration	Integration	Integration	Integration
46	1st Furc. Peris-Furane	0.0025	10.072	27.56						0.00696
47	Total Peris-Furane	0.0025	10.072	26.27						0.0126
48	Total Hexa-Furane	0.9341	10.072	33.56						0.0211
49	Total Hepta-Furane	0.8734	10.072	37.83						0.0361
50	PFK1									
51	PFK2									
52	PFK3									
53	PFK4									

Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration	Integration	Integration	Integration
1	Total Tetra-Furane	20.30	8.835e1	7.590e1	0.87	NO	0.042324	0.042324		
2	Total Tetra-Furane	21.49	3.599e2	4.833e2	0.74	NO	0.25001	0.25001		
3	Total Tetra-Furane	25.83	3.711e1	2.473e1	1.50	YES	0.013025	0.00000		



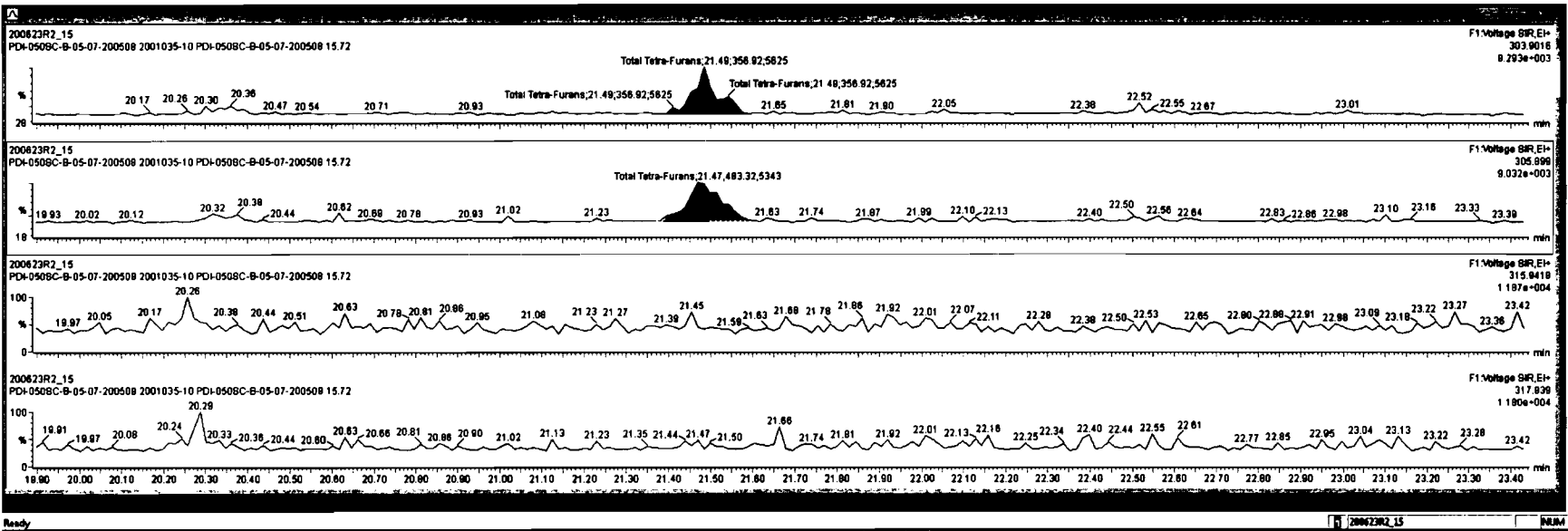
Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
18	19.93	10.072	27.58				0.00808
19	20.02	10.072	28.27				0.0128
20	20.11	10.072	33.56				0.0211
21	20.26	10.072	37.83				0.0381
22	20.47						
23	20.54						
24	20.59						
25	20.71						
26	20.77						
27	20.93						
28	21.10						
29	21.13						
30	21.28						
31	21.35						
32	21.49						
33	21.81						
34	21.90						
35	22.02						
36	22.05						
37	22.17						
38	22.23						
39	22.38						
40	22.52						
41	22.55						
42	22.58						
43	22.67						
44	22.74						
45	22.85						
46	22.84						
47	23.01						
48	23.16						
49	23.24						
50	23.38						

Method	Unit	Std. Dev.	Integration	Peak	Height	Area	Area%
Total Tetra-Furans	20.30	6.836e1	7.589e1	0.87	NO	0.042324	0.042324
Total Tetra-Furans	21.49	3.589e2	4.833e2	0.74	NO	0.26001	0.26001
Total Tetra-Furans	25.83	3.711e1	2.473e1	1.50	YES	0.013025	0.00000



RT	Area	Height	Area%	Height%	Area%	Height%
20.17						
20.26						
20.30						
20.36						
20.47						
20.54						
20.71						
20.93						
21.05						
21.81						
21.80						
22.05						
22.38						
22.52						
22.55						
22.67						
23.01						

Name	RT	Int Resp	Int Resp	Area	Area	Area%	Area%
Total Tetra-Furans	21.48	3.599e2	4.833e2	0.74	NO	0.25001	0.25001



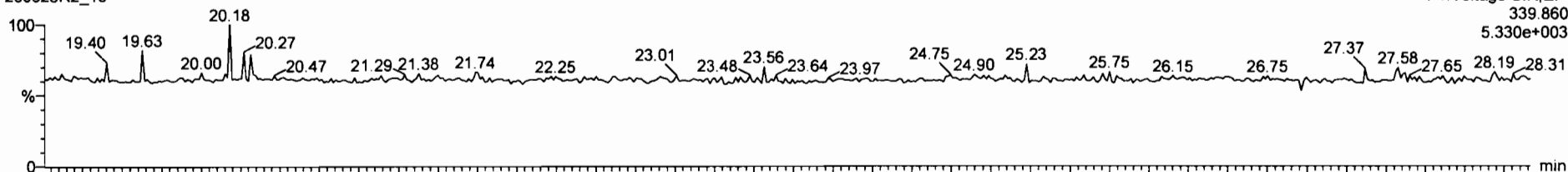
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Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

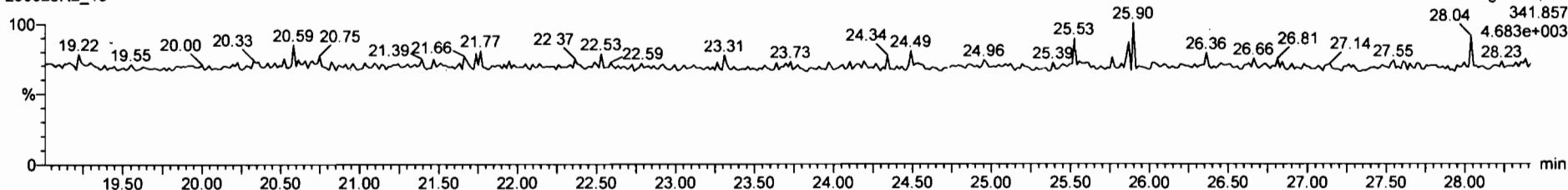
Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

1st Func. Penta-Furans

200623R2_15

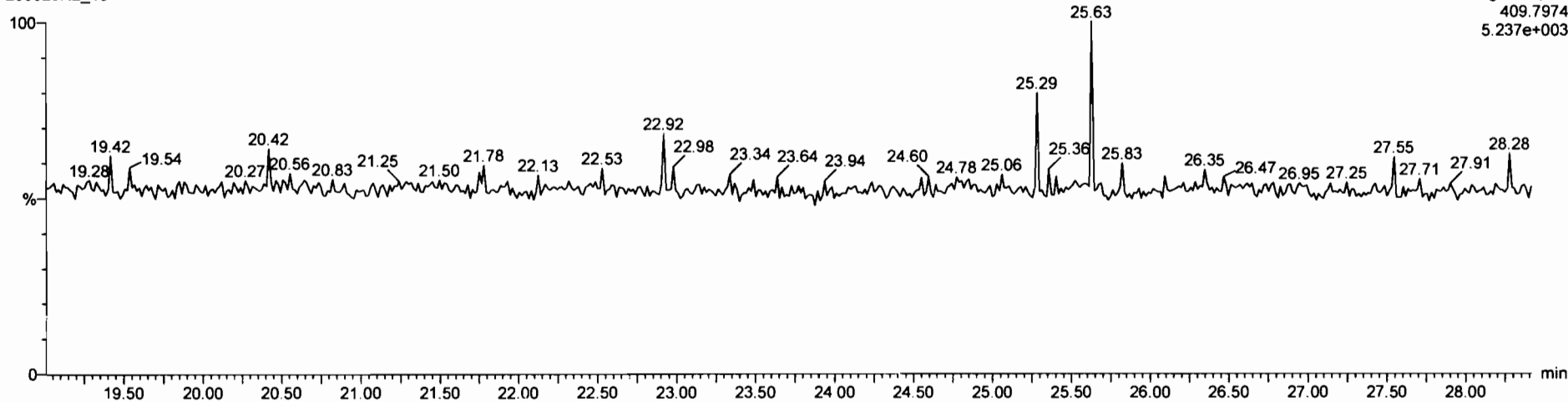


200623R2_15



DPE6

200623R2_15

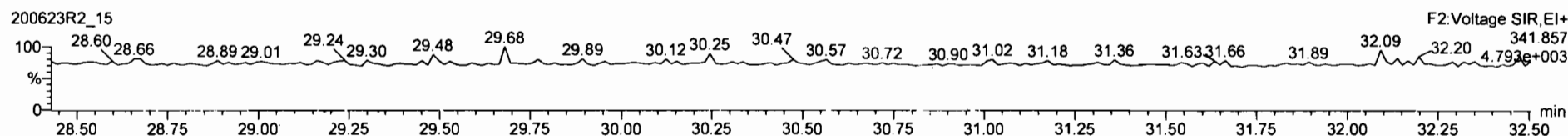
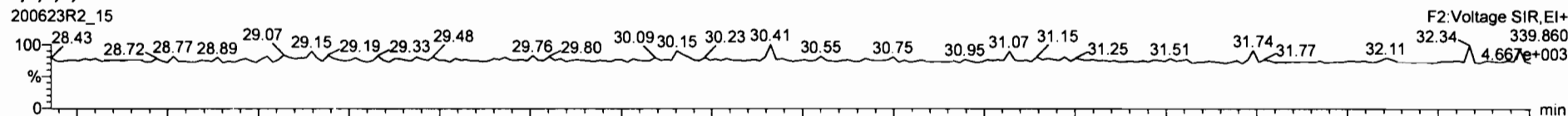


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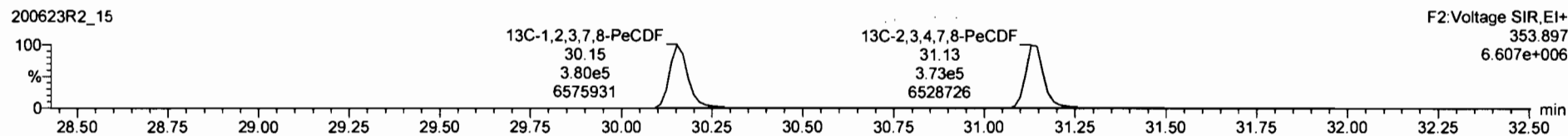
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Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

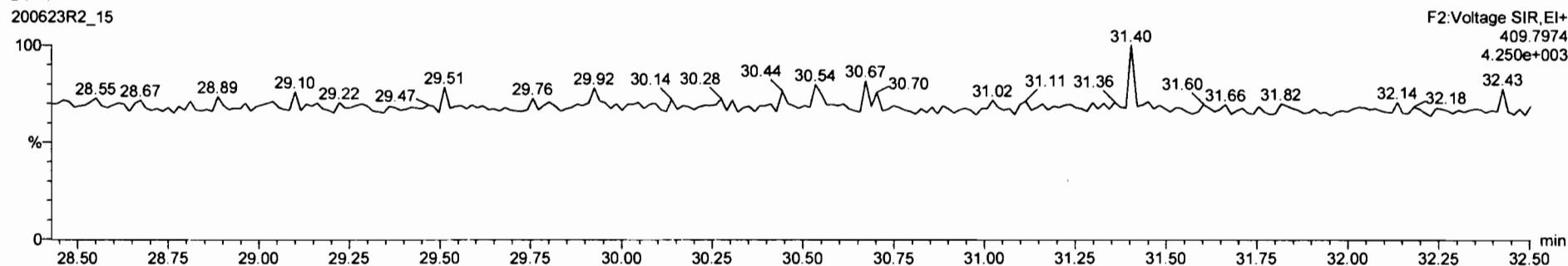
1,2,3,7,8-PeCDF



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

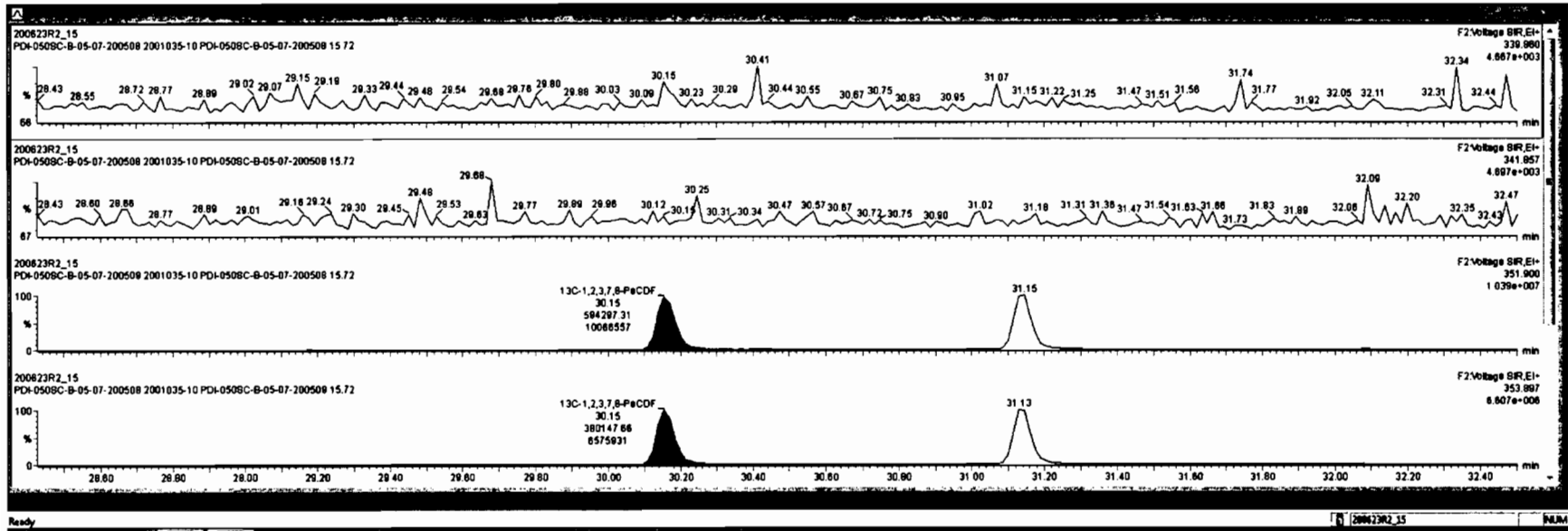


DPE2



Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration	Integration	Integration
66	Total Tetra-Furane	0.7510	10.072	23.91		0.290		0.0398	0.290	
67	1st Func. Penta-Furane	0.8825	10.072	27.58				0.00898		
68	Total Hexa-Furane	0.8341	10.072	33.58				0.0211		
69	Total Hepta-Furane	0.8734	10.072	37.83				0.0391		
70	PPK1									
71	PPK2									
72	PPK3									
73	PPK4									

Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration	Integration	Integration
1										

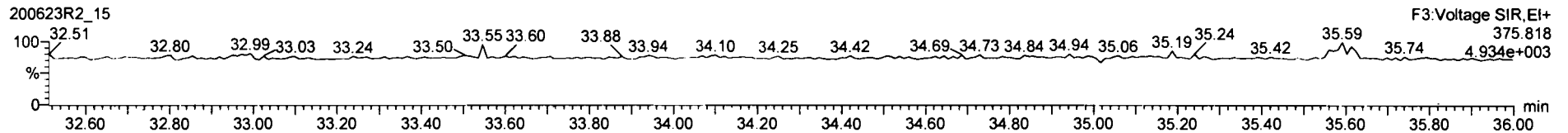
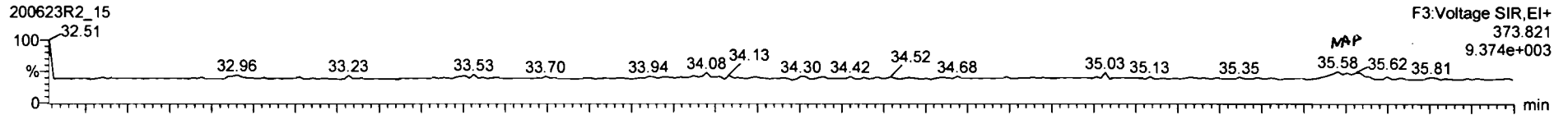


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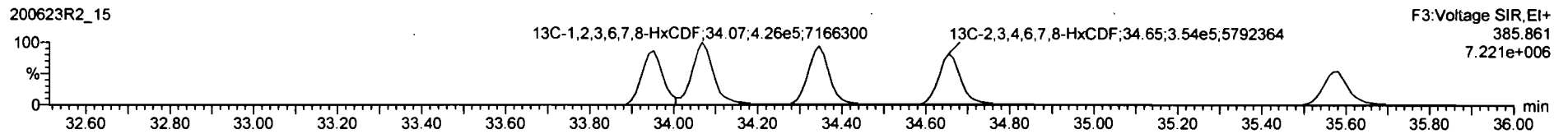
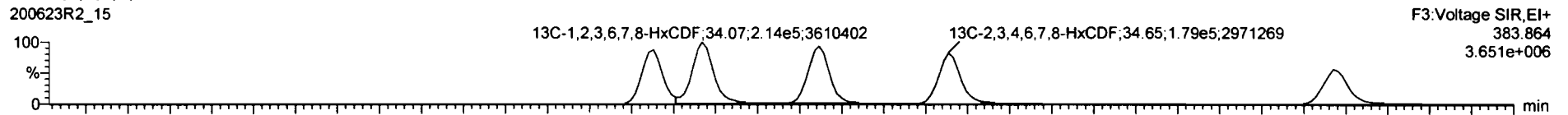
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

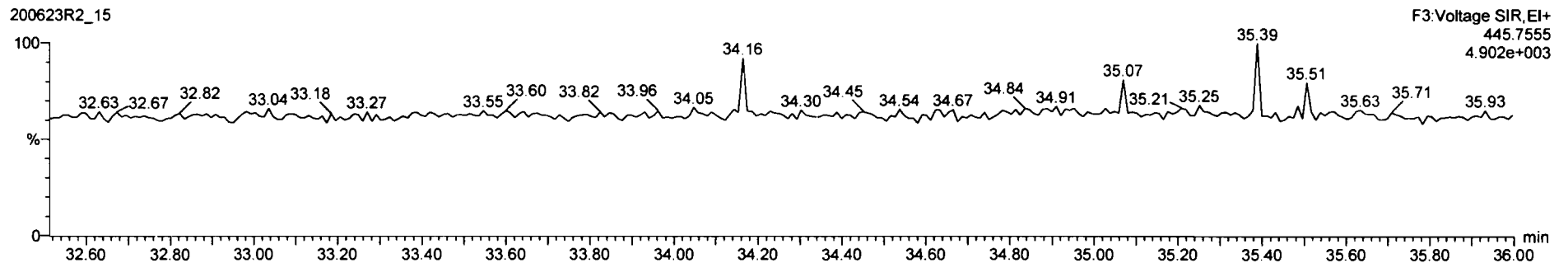
1,2,3,4,7,8-HxCDF

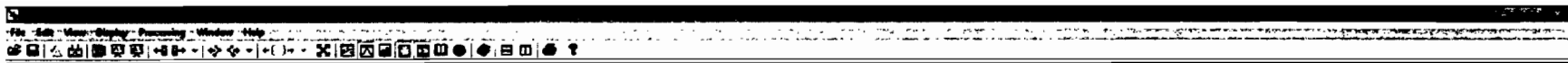


13C-1,2,3,4,7,8-HxCDF



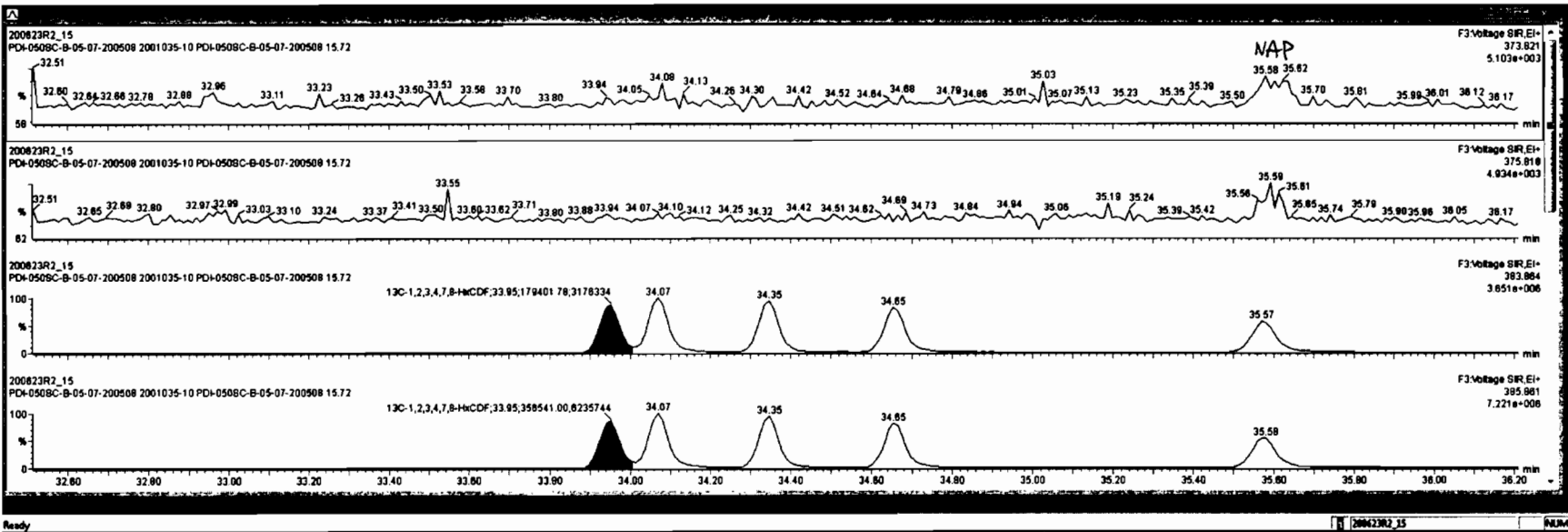
DPE3





Sample	Area	Height	Width	Retention	Integration	Area%	Area	Height	Width	Retention	Integration	Area%	Area	Height	Width	Retention	Integration	Area%	
Total Toluene-Furans				0.7510	10.072	23.01						0.250		0.0206					0.250
Total Toluene-Furans				0.8625	10.072	27.58								0.0206					0.0206
Total Toluene-Furans				0.8625	10.072	26.27								0.0126					0.0126
Total Hepta-Furans				0.8734	10.072	37.80								0.0301					0.0301
PP1																			
PP2																			
PP3																			
PP4																			

Area	Height	Width	Retention	Integration	Area%	Area	Height	Width	Retention	Integration	Area%



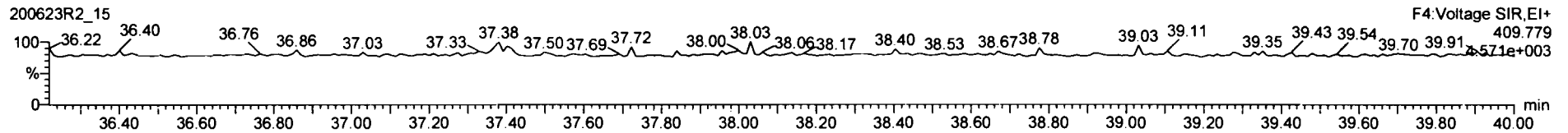
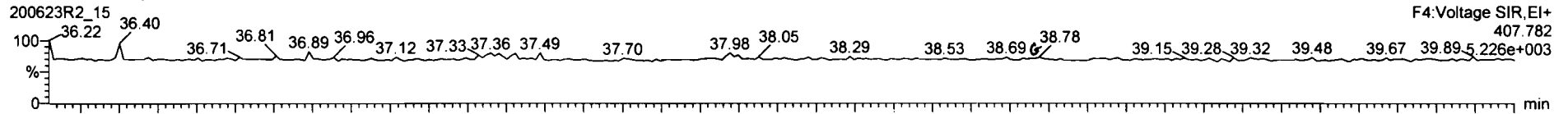
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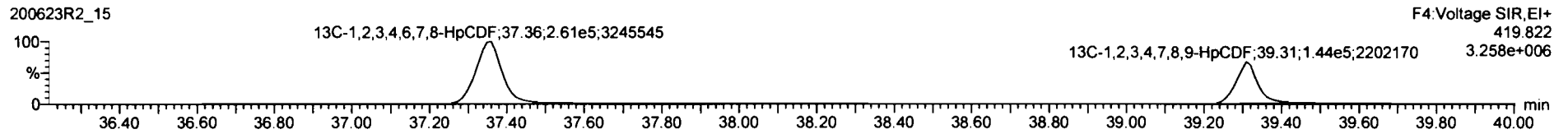
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Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508

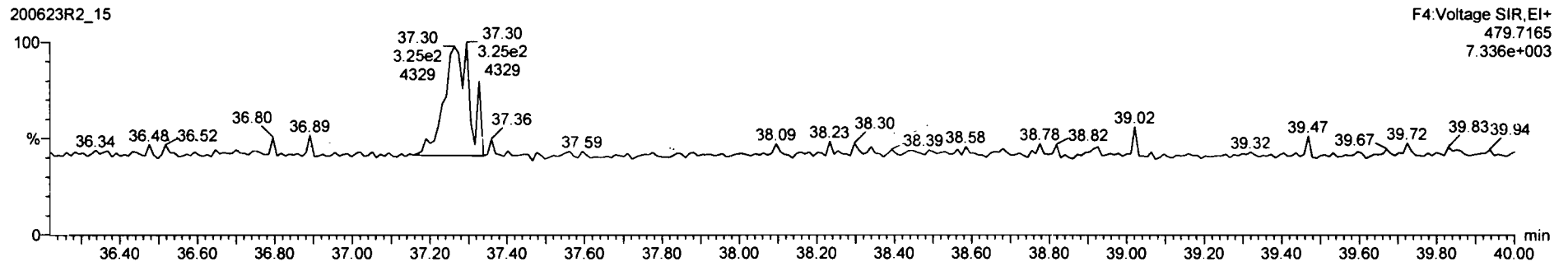
1,2,3,4,6,7,8-HpCDF



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



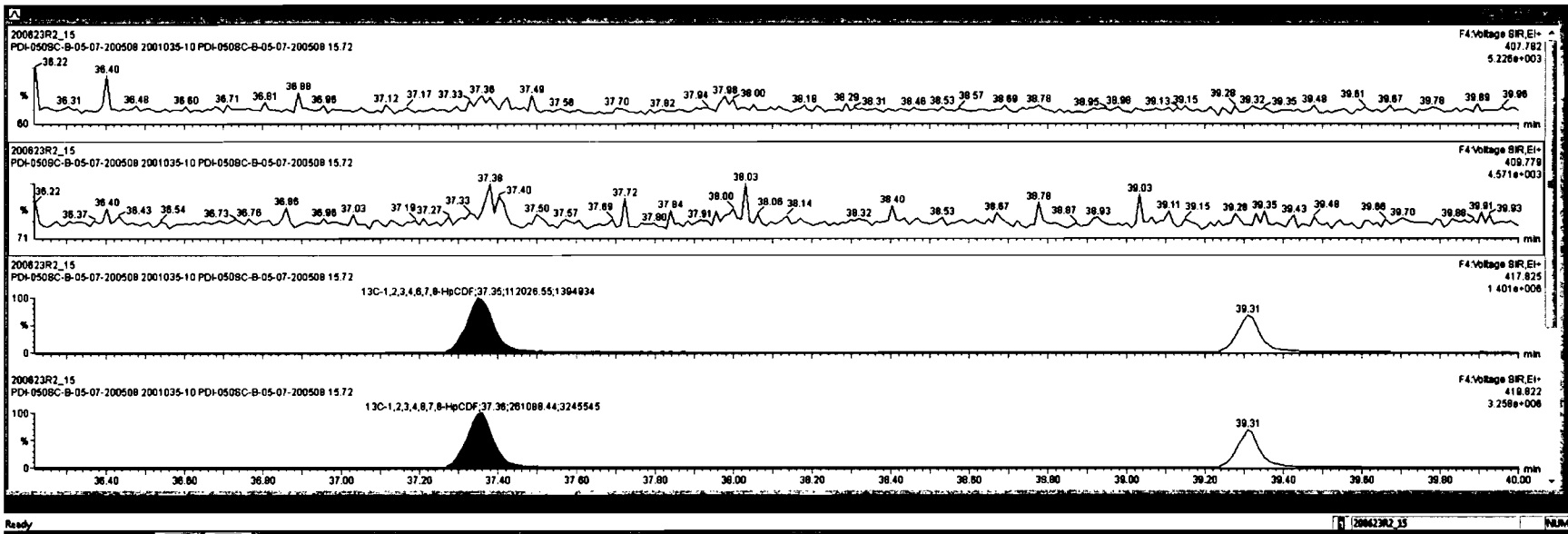
DPE4





Peak	Retention Time (min)	Area	Height	Width	Height	Area	Height	Width	Height
43	0.7510	10.072	23.81			0.250	0.0386	0.250	
44	0.8825	10.072	27.39				0.00886		
45	0.8825	10.072	28.27				0.0128		
46	0.8341	10.072	33.98				0.0211		
47									
48									
49									
50									
51									

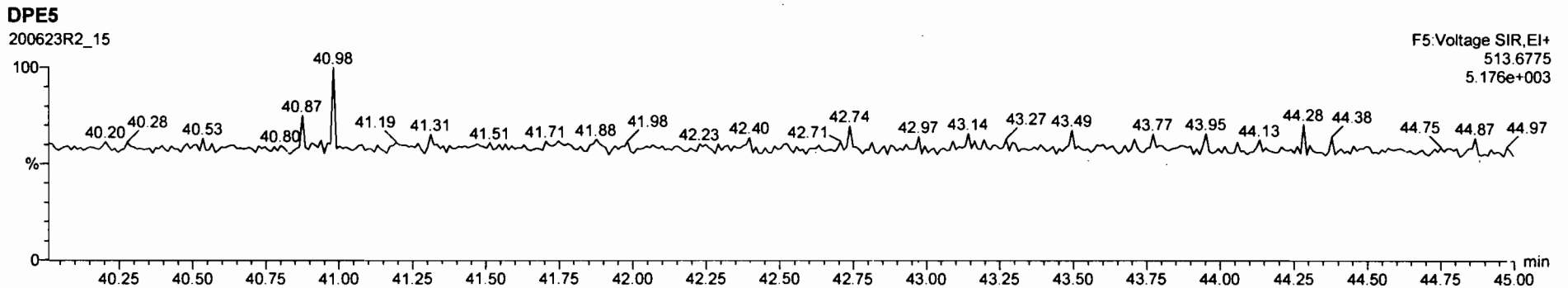
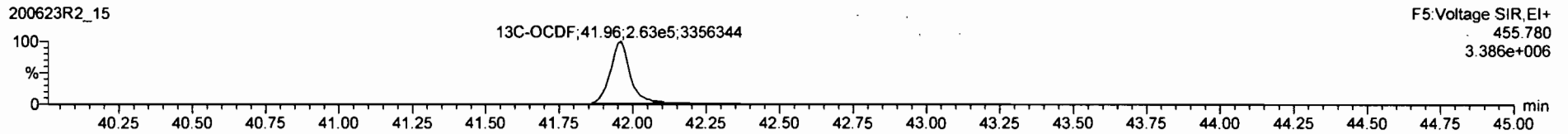
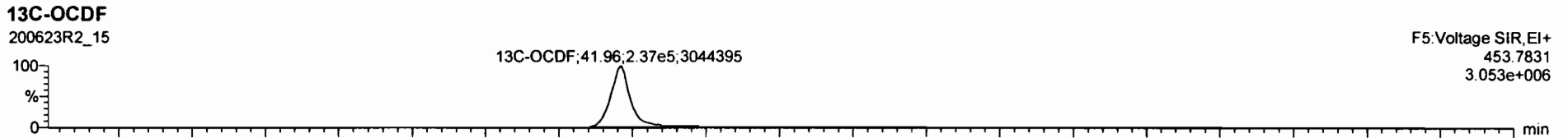
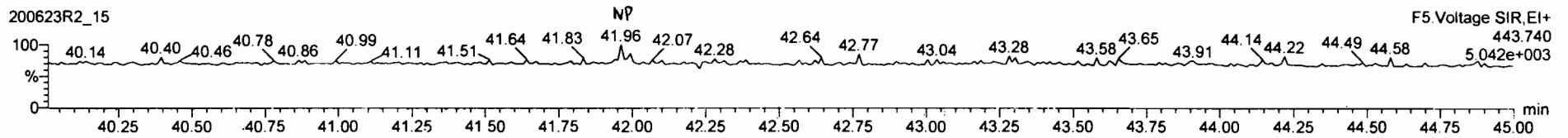
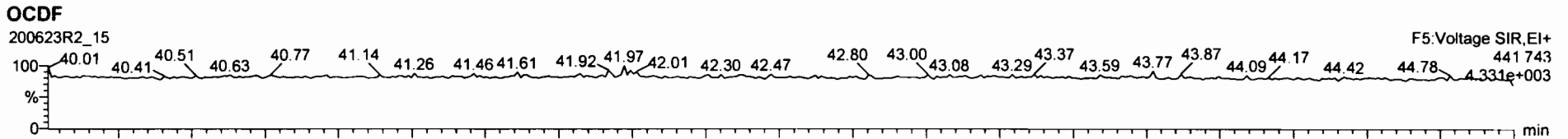
Peak	Retention Time (min)	Area	Height	Width	Height	Area	Height	Width	Height



Dataset: Untitled

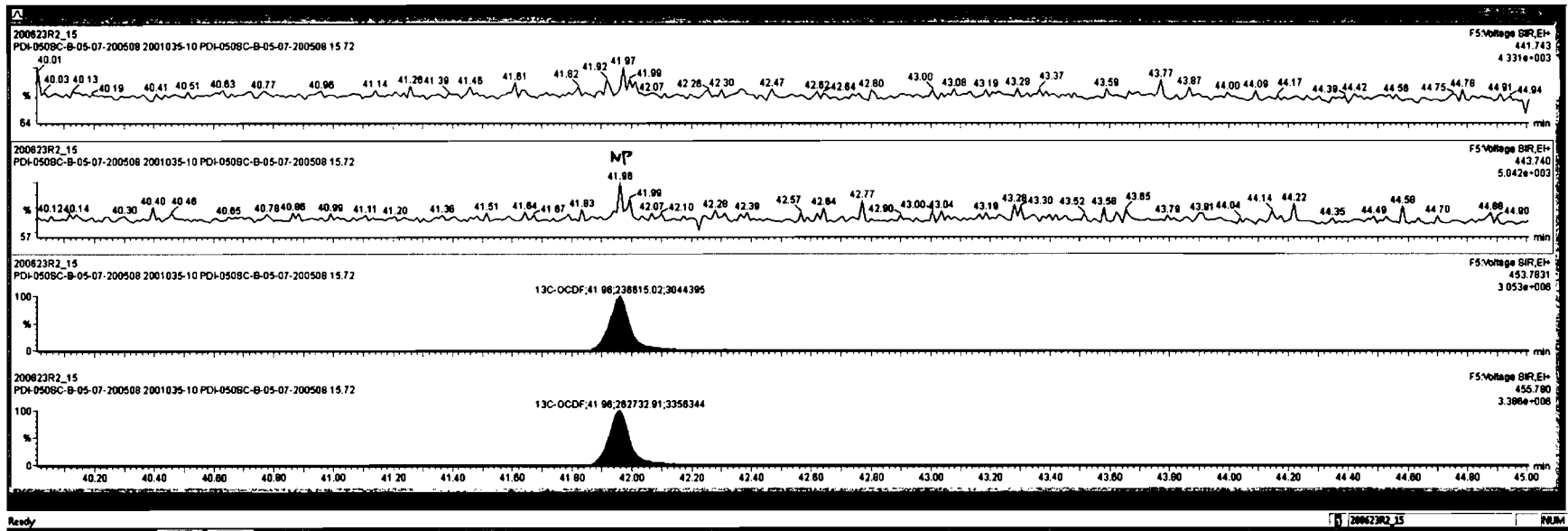
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Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508



17	13C-2,3,7,8-TCDD	7.10e5	0.78	NO	1.1983	10.072	28.49	26.47	1.028	200	101	0.284
18	13C-1,2,3,7,8-PeCDD	8.37e5	0.83	NO	0.8480	10.072	31.87	31.43	1.218	245	123	0.289
19	13C-1,2,3,6,7,8-HxCDD	4.01e5	1.33	NO	0.7780	10.072	34.83	34.83	1.014	177	88.2	0.589
20	13C-1,2,3,6,7,8-HxCDD	5.04e5	1.22	NO	1.0787	10.072	34.94	34.83	1.017	171	85.9	0.459
21	13C-1,2,3,7,8,9-HxCDD	4.48e5	1.28	NO	0.9027	10.072	35.21	35.21	1.025	171	86.1	0.517
22	13C-1,2,3,6,7,8,9-HxCDD	2.88e5	1.04	NO	0.8892	10.072	38.74	38.77	1.129	144	72.8	0.532
23	13C-OCDD	4.20e5	0.83	NO	0.8521	10.072	41.78	41.77	1.218	221	85.8	0.462
24	13C-2,3,7,8-TCDF	8.89e5	0.79	NO	1.0580	10.072	25.53	25.59	0.981	184	92.4	0.308

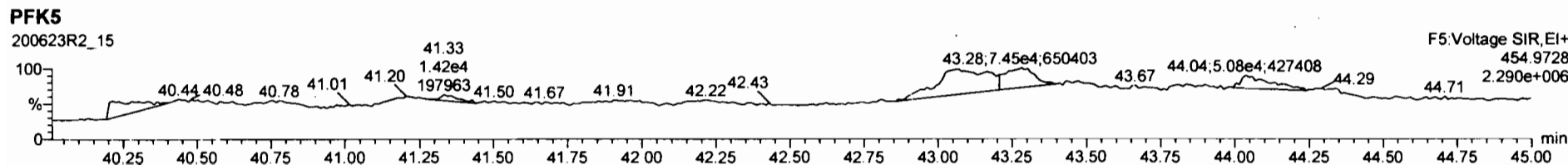
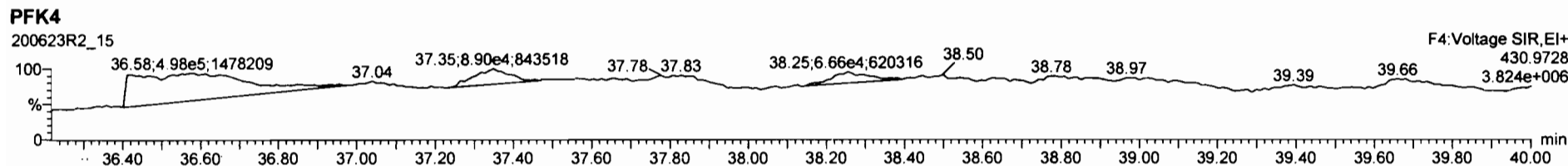
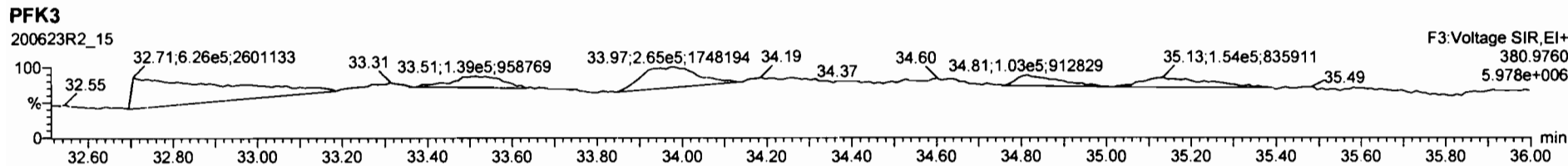
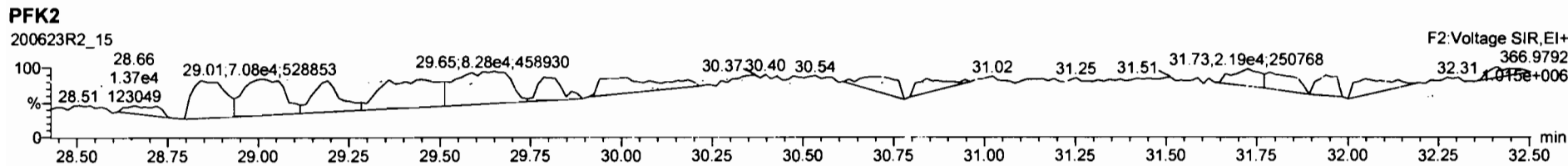
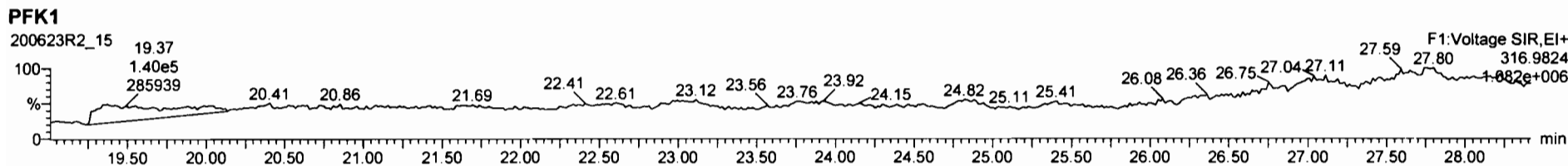
Peak	RT	Conc	Area	Area%	Height	Width	Height	Width
1	41.98							



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:07:05 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_15, Date: 24-Jun-2020, Time: 01:52:14, ID: 2001035-10 PDI-050SC-B-05-07-200508 15.72, Description: PDI-050SC-B-05-07-200508



Dataset: U:\VG12.PRO\Results\200623R2\200623R2-16B.qld

Last Altered: Thursday, July 02, 2020 08:45:53 Pacific Daylight Time
Printed: Thursday, July 02, 2020 08:46:54 Pacific Daylight Time

HN 07/02/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

07/17/2020

Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	2,3,7,8-TCDD	3.13e3	0.68	NO	0.888	10.003	26.501	26.48	1.001	1.001	0.88686		0.119	0.887			
2	1,2,3,7,8-PeCDD	5.29e3	0.55	NO	0.908	10.003	31.457	31.47	1.001	1.001	1.4994		0.0956	1.50			
3	1,2,3,4,7,8-HxCDD	4.17e3	1.26	NO	1.03	10.003	34.835	34.85	1.000	1.001	1.6106		0.257	1.61			
4	1,2,3,6,7,8-HxCDD	2.50e4	1.22	NO	0.892	10.003	34.931	34.95	1.000	1.001	8.6254		0.252	8.63			
5	1,2,3,7,8,9-HxCDD	9.78e3	1.29	NO	0.887	10.003	35.230	35.22	1.000	1.000	3.9166		0.302	3.92			
6	1,2,3,4,6,7,8-HpCDD	3.70e5	1.02	NO	0.864	10.003	38.778	38.79	1.000	1.001	194.38		0.733	194			
7	OCDD	3.50e6	0.89	NO	0.914	10.003	41.769	41.78	1.000	1.000	2153.6		1.14	2150			
8	2,3,7,8-TCDF	1.07e6	0.79	NO	0.751	10.003	25.596	25.60	1.001	1.001	283.73	(230)	0.248	284			
9	1,2,3,7,8-PeCDF	1.81e6	1.54	NO	0.893	10.003	30.174	30.17	1.001	1.001	344.36		0.394	344			
10	2,3,4,7,8-PeCDF	1.02e6	1.53	NO	0.935	10.003	31.176	31.16	1.001	1.000	189.65		0.365	190			
11	1,2,3,4,7,8-HxCDF	1.40e6	1.20	NO	0.884	10.003	33.952	33.96	1.000	1.000	452.49		0.396	452			
12	1,2,3,6,7,8-HxCDF	4.74e5	1.20	NO	0.889	10.003	34.079	34.09	1.000	1.001	133.65		0.372	134			
13	2,3,4,6,7,8-HxCDF	9.04e4	1.23	NO	0.934	10.003	34.700	34.68	1.001	1.000	29.575		0.447	29.6			
14	1,2,3,7,8,9-HxCDF	5.54e4	1.17	NO	0.871	10.003	35.581	35.61	1.000	1.001	22.869		0.638	22.9			
15	1,2,3,4,6,7,8-HpCDF	2.90e5	1.01	NO	0.873	10.003	37.397	37.37	1.001	1.000	148.41		0.520	148			
16	1,2,3,4,7,8,9-HpCDF	1.11e5	1.01	NO	1.01	10.003	39.319	39.33	1.000	1.000	71.938		0.597	71.9			
17	OCDF	4.80e5	0.86	NO	0.806	10.003	41.960	41.97	1.000	1.000	310.72		0.486	311			
18	13C-2,3,7,8-TCDD	7.95e5	0.78	NO	1.16	10.003	26.491	26.47	1.026	1.026	197.93	99.0	0.237				
19	13C-1,2,3,7,8-PeCDD	7.77e5	0.63	NO	0.849	10.003	31.674	31.43	1.227	1.218	263.29	132	0.437				
20	13C-1,2,3,4,7,8-HxCDD	5.01e5	1.27	NO	0.779	10.003	34.830	34.83	1.014	1.014	185.88	93.0	0.448				
21	13C-1,2,3,6,7,8-HxCDD	6.50e5	1.27	NO	1.02	10.003	34.944	34.93	1.017	1.017	184.89	92.5	0.343				
22	13C-1,2,3,7,8,9-HxCDD	5.63e5	1.23	NO	0.903	10.003	35.215	35.22	1.025	1.025	180.33	90.2	0.387				
23	13C-1,2,3,4,6,7,8-HpCDD	4.41e5	1.05	NO	0.689	10.003	38.739	38.77	1.128	1.129	184.92	92.5	0.415				
24	13C-OCDD	7.12e5	0.89	NO	0.652	10.003	41.761	41.77	1.216	1.216	315.82	79.0	0.422				
25	13C-2,3,7,8-TCDF	1.00e6	0.77	NO	1.06	10.003	25.534	25.57	0.989	0.991	185.73	92.9	0.370				
26	13C-1,2,3,7,8-PeCDF	1.18e6	1.55	NO	0.838	10.003	30.058	30.15	1.165	1.168	275.75	138	0.759				
27	13C-2,3,4,7,8-PeCDF	1.15e6	1.59	NO	0.817	10.003	31.011	31.15	1.202	1.207	276.05	138	0.779				
28	13C-1,2,3,4,7,8-HxCDF	7.01e5	0.51	NO	1.01	10.003	33.961	33.95	0.989	0.989	201.33	101	0.712				
29	13C-1,2,3,6,7,8-HxCDF	7.97e5	0.52	NO	1.17	10.003	34.085	34.07	0.992	0.992	197.42	98.7	0.615				
30	13C-2,3,4,6,7,8-HxCDF	6.54e5	0.53	NO	1.02	10.003	34.659	34.67	1.009	1.009	185.12	92.6	0.702				
31	13C-1,2,3,7,8,9-HxCDF	5.56e5	0.49	NO	0.860	10.003	35.558	35.58	1.035	1.036	187.21	93.6	0.834				

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-16B.qld

Last Altered: Thursday, July 02, 2020 08:45:53 Pacific Daylight Time

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Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

32	13C-1,2,3,4,6,7,8-HpCDF	4.48e5	0.43	NO	0.774	10.003	37.307	37.36	1.086	1.088	167.18	83.6	0.504	
33	13C-1,2,3,4,7,8,9-HpCDF	3.04e5	0.46	NO	0.521	10.003	39.336	39.32	1.145	1.145	168.59	84.3	0.749	
34	13C-OCDF	7.66e5	0.90	NO	0.746	10.003	41.933	41.96	1.221	1.222	296.99	74.3	0.413	
35	37Cl-2,3,7,8-TCDD	2.92e5			1.04	10.003	26.522	26.48	1.028	1.026	80.947	101	0.0886	
36	13C-1,2,3,4-TCDD	6.95e5	0.78	NO	1.00	10.003	25.890	25.81	1.000	1.000	199.95	100	0.274	
37	13C-1,2,3,4-TCDF	1.02e6	0.79	NO	1.00	10.003	24.360	24.13	1.000	1.000	199.95	100	0.392	
38	13C-1,2,3,4,6,9-HxCDF	6.91e5	0.51	NO	1.00	10.003	34.420	34.35	1.000	1.000	199.95	100	0.717	
39	Total Tetra-Dioxins				0.888	10.003	24.620		0.000		10.229		0.119	11.5
40	Total Penta-Dioxins				0.908	10.003	29.960		0.000		11.464		0.0956	15.2
41	Total Hexa-Dioxins				0.892	10.003	33.635		0.000		80.296		0.281	82.2
42	Total Hepta-Dioxins				0.864	10.003	37.640		0.000		457.70		0.733	458
43	Total Tetra-Furans				0.751	10.003	23.610		0.000		763.55		0.248	801
44	1st Func. Penta-Furans				0.893	10.003	27.580		0.000		31.215		0.0303	31.2
45	Total Penta-Furans				0.893	10.003	29.275		0.000		892.40		0.388	892
46	Total Hexa-Furans				0.934	10.003	33.555		0.000		835.20		0.431	835
47	Total Hepta-Furans				0.873	10.003	37.835		0.000		479.33		0.590	479

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Dataset: U:\VG12.PRO\Results\200623R2\200623R2-16B.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

Tetra-Dioxins

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	W	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.46	7.218e4	1.064e5	6.663e3	9.568e3	0.70	NO	1.623e4	4.5947	4.5947	0.119
Total Tetra-Dioxins	22.91	2.839e4	3.160e4	2.439e3	3.296e3	0.74	NO	5.735e3	1.6235	1.6235	0.119
Total Tetra-Dioxins	23.43	7.476e3	8.291e3	6.594e2	7.278e2	0.91	YES	0.000e0	0.00000	0.36464	0.119
Total Tetra-Dioxins	24.30	4.589e3	5.559e3	4.180e2	5.115e2	0.82	NO	9.294e2	0.26310	0.26310	0.119
Total Tetra-Dioxins	24.55	1.027e4	1.570e4	9.861e2	1.418e3	0.70	NO	2.404e3	0.68040	0.68040	0.119
Total Tetra-Dioxins	24.76	1.368e4	1.763e4	1.219e3	1.551e3	0.79	NO	2.770e3	0.78411	0.78411	0.119
Total Tetra-Dioxins	24.99	4.443e3	4.415e3	3.644e2	3.452e2	1.06	YES	0.000e0	0.00000	0.17294	0.119
Total Tetra-Dioxins	25.24	6.292e3	4.684e3	2.514e2	3.038e2	0.83	NO	5.552e2	0.15718	0.15718	0.119
Total Tetra-Dioxins	25.44	7.115e3	7.445e3	5.279e2	5.478e2	0.96	YES	0.000e0	0.00000	0.27446	0.119
Total Tetra-Dioxins	25.81	3.811e3	4.473e3	3.513e2	4.639e2	0.76	NO	8.152e2	0.23075	0.23075	0.119
Total Tetra-Dioxins	26.21	1.950e4	2.672e4	1.592e3	1.969e3	0.81	NO	3.561e3	1.0080	1.0080	0.119
2,3,7,8-TCDD	26.48	1.894e4	2.838e4	1.271e3	1.862e3	0.68	NO	3.133e3	0.88686	0.88686	0.119
Total Tetra-Dioxins	26.81	6.591e3	9.599e3	5.253e2	5.654e2	0.93	YES	0.000e0	0.00000	0.28330	0.119
Total Tetra-Dioxins	27.46	2.908e3	4.333e3	2.962e2	2.790e2	1.06	YES	0.000e0	0.00000	0.13978	0.119

Penta-Dioxins

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	W	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.22	7.444e4	1.156e5	5.482e3	9.425e3	0.58	NO	1.491e4	4.2268	4.2268	0.0956
Total Penta-Dioxins	29.71	2.902e4	4.233e4	1.331e3	2.087e3	0.64	NO	3.418e3	0.96918	0.96918	0.0956
Total Penta-Dioxins	30.22	7.183e4	1.188e5	4.558e3	6.286e3	0.73	YES	0.000e0	0.00000	2.9053	0.0956
Total Penta-Dioxins	30.38	3.574e4	6.717e4	1.980e3	3.597e3	0.55	NO	5.577e3	1.5812	1.5812	0.0956
Total Penta-Dioxins	30.47	2.264e4	4.301e4	1.430e3	2.365e3	0.60	NO	3.794e3	1.0759	1.0759	0.0956
Total Penta-Dioxins	30.69	2.513e4	4.321e4	2.323e3	3.835e3	0.61	NO	6.158e3	1.7460	1.7460	0.0956
Total Penta-Dioxins	31.02	1.027e4	1.602e4	5.216e2	7.668e2	0.68	NO	1.288e3	0.36532	0.36532	0.0956
1,2,3,7,8-PeCDD	31.47	3.356e4	6.450e4	1.875e3	3.413e3	0.55	NO	5.288e3	1.4994	1.4994	0.0956
Total Penta-Dioxins	31.54	1.457e4	1.713e4	7.134e2	9.550e2	0.75	YES	0.000e0	0.00000	0.44137	0.0956
Total Penta-Dioxins	31.85	1.606e4	1.754e4	6.897e2	9.143e2	0.75	YES	0.000e0	0.00000	0.42258	0.0956

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Dataset: U:\VG12.PRO\Results\200623R2\200623R2-16B.qld

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Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

Hexa-Dioxins

Retention Time (min)	Area	Height	Area Ratio	Height Ratio	Mass	Height	Area Ratio	Height Ratio	Mass	Height	Area Ratio	Height Ratio
33.33	7.922e5	6.591e5	4.282e4	3.444e4	1.24	NO	7.726e4	30.307	30.307	0.281		
33.89	8.059e4	7.362e4	5.241e3	4.150e3	1.26	NO	9.391e3	3.6839	3.6839	0.281		
34.15	6.330e5	4.854e5	4.397e4	3.542e4	1.24	NO	7.939e4	31.143	31.143	0.281		
34.23	4.530e4	4.124e4	2.727e3	2.630e3	1.04	YES	0.000e0	0.00000	1.9323	0.281		
34.85	4.126e4	2.905e4	2.320e3	1.848e3	1.26	NO	4.168e3	1.6106	1.6106	0.257		
34.95	2.032e5	1.571e5	1.376e4	1.126e4	1.22	NO	2.502e4	8.6254	8.6254	0.252		
35.12	2.039e4	1.862e4	1.360e3	1.212e3	1.12	NO	2.572e3	1.0091	1.0091	0.281		
35.22	7.339e4	6.647e4	5.507e3	4.272e3	1.29	NO	9.779e3	3.9166	3.9166	0.302		

Hepta-Dioxins

Retention Time (min)	Area	Height	Area Ratio	Height Ratio	Mass	Height	Area Ratio	Height Ratio	Mass	Height	Area Ratio	Height Ratio
37.78	2.805e6	2.749e6	2.536e5	2.478e5	1.02	NO	5.014e5	263.32	263.32	0.733		
38.79	2.461e6	2.377e6	1.870e5	1.831e5	1.02	NO	3.701e5	194.38	194.38	0.733		

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Dataset: U:\VG12.PRO\Results\200623R2\200623R2-16B.qld

Last Altered: Thursday, July 02, 2020 08:45:53 Pacific Daylight Time

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Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Is P	Area	Area	Area	Area
Total Tetra-Furans	20.33	1.253e4	2.157e4	9.681e2	1.596e3	0.61	YES	0.000e0	0.00000	0.59156	0.248
Total Tetra-Furans	20.87	4.556e4	6.015e4	4.303e3	5.389e3	0.80	NO	9.691e3	2.5762	2.5762	0.248
Total Tetra-Furans	21.47	2.042e5	2.575e5	1.818e4	2.385e4	0.76	NO	4.203e4	11.172	11.172	0.248
Total Tetra-Furans	22.04	1.390e5	1.907e5	1.973e4	2.591e4	0.76	NO	4.564e4	12.132	12.132	0.248
Total Tetra-Furans	22.44	1.044e6	1.331e6	1.011e5	1.329e5	0.76	NO	2.340e5	62.202	62.202	0.248
Total Tetra-Furans	22.95	3.145e5	4.234e5	3.087e4	4.153e4	0.74	NO	7.240e4	19.245	19.245	0.248
Total Tetra-Furans	23.10	2.651e4	3.735e4	2.444e3	3.376e3	0.72	NO	5.820e3	1.5472	1.5472	0.248
Total Tetra-Furans	23.30	1.953e5	2.625e5	1.811e4	2.518e4	0.72	NO	4.329e4	11.508	11.508	0.248
Total Tetra-Furans	23.74	4.158e4	5.542e4	3.835e3	4.935e3	0.78	NO	8.770e3	2.3313	2.3313	0.248
Total Tetra-Furans	23.86	1.916e4	2.301e4	1.233e3	1.651e3	0.75	NO	2.884e3	0.76651	0.76651	0.248
Total Tetra-Furans	24.15	4.987e5	6.527e5	5.796e4	7.680e4	0.75	NO	1.348e5	35.820	35.820	0.248
Total Tetra-Furans	24.66	5.631e6	7.323e6	4.392e5	5.782e5	0.76	NO	1.017e6	270.44	270.44	0.248
Total Tetra-Furans	24.96	1.875e5	2.497e5	1.482e4	1.939e4	0.76	NO	3.421e4	9.0943	9.0943	0.248
Total Tetra-Furans	25.17	1.781e4	1.955e4	1.709e3	2.006e3	0.85	NO	3.715e3	0.98761	0.98761	0.248
Total Tetra-Furans	25.38	6.859e4	8.137e4	4.294e3	5.019e3	0.86	NO	9.313e3	2.4755	2.4755	0.248
Total Tetra-Furans	25.48	6.802e5	8.438e5	3.946e4	4.962e4	0.80	NO	8.908e4	23.680	23.680	0.248
2,3,7,8-TCDF	25.60	6.312e6	7.860e6	4.726e5	5.948e5	0.79	NO	1.067e6	283.73	283.73	0.248
Total Tetra-Furans	25.96	2.593e5	3.205e5	1.907e4	2.379e4	0.80	NO	4.286e4	11.392	11.392	0.248
Total Tetra-Furans	26.21	5.833e4	7.671e4	4.120e3	5.110e3	0.81	NO	9.230e3	2.4536	2.4536	0.248
Total Tetra-Furans	27.04	1.984e4	1.307e4	1.281e3	7.339e2	1.74	YES	0.000e0	0.00000	0.34530	0.248
Total Tetra-Furans	27.34	9.876e3	6.537e3	7.078e2	4.691e2	1.51	YES	0.000e0	0.00000	0.22072	0.248
Total Tetra-Furans	27.59	1.122e6	1.172e6	7.726e4	7.803e4	0.99	YES	0.000e0	0.00000	36.713	0.248

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Is P	Area	Area	Area	
1st Func. Penta-Furans	27.59	1.653e6	1.004e6	9.961e4	6.234e4	1.60	NO	1.620e5	31.215	31.215	0.0303

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-16B.qld

Last Altered: Thursday, July 02, 2020 08:45:53 Pacific Daylight Time

Printed: Thursday, July 02, 2020 08:46:54 Pacific Daylight Time

Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

Penta-Furans

Time	RT	m1 Height	m2 Height	m1 Peak	m2 Peak	RT	Area	Area%	Height	Height%	Area	Area%
Total Penta-Furans	28.75	1.066e4	6.139e3	4.684e2	2.940e2	1.59	NO	7.624e2	0.14695	0.14695	0.388	
Total Penta-Furans	29.04	2.317e5	1.541e5	1.094e4	7.348e3	1.49	NO	1.829e4	3.5248	3.5248	0.388	
Total Penta-Furans	29.18	8.225e6	5.400e6	5.356e5	3.460e5	1.55	NO	8.816e5	169.93	169.93	0.388	
Total Penta-Furans	29.54	1.902e4	1.032e4	1.155e3	7.271e2	1.59	NO	1.882e3	0.36282	0.36282	0.388	
Total Penta-Furans	29.77	3.118e5	1.995e5	1.992e4	1.386e4	1.44	NO	3.378e4	6.5105	6.5105	0.388	
Total Penta-Furans	29.83	2.351e5	1.465e5	1.058e4	6.521e3	1.62	NO	1.710e4	3.2965	3.2965	0.388	
Total Penta-Furans	29.99	2.261e6	1.467e6	1.204e5	7.806e4	1.54	NO	1.984e5	38.247	38.247	0.388	
1,2,3,7,8-PeCDF	30.17	1.948e7	1.277e7	1.096e6	7.132e5	1.54	NO	1.809e6	344.36	344.36	0.394	
Total Penta-Furans	30.44	7.411e6	4.777e6	3.935e5	2.551e5	1.54	NO	6.486e5	125.02	125.02	0.388	
Total Penta-Furans	30.93	4.804e4	2.717e4	2.136e3	1.230e3	1.74	NO	3.366e3	0.64878	0.64878	0.388	
Total Penta-Furans	31.05	1.259e5	7.822e4	6.156e3	4.022e3	1.53	NO	1.018e4	1.9619	1.9619	0.388	
2,3,4,7,8-PeCDF	31.16	9.425e6	6.222e6	6.155e5	4.023e5	1.53	NO	1.018e6	189.65	189.65	0.365	
Total Penta-Furans	31.45	3.032e4	1.867e4	2.100e3	1.306e3	1.61	NO	3.406e3	0.65646	0.65646	0.388	
Total Penta-Furans	32.09	4.742e5	3.126e5	2.604e4	1.589e4	1.64	NO	4.193e4	8.0821	8.0821	0.388	

Hexa-Furans

Time	RT	m1 Height	m2 Height	m1 Peak	m2 Peak	RT	Area	Area%	Height	Height%	Area	Area%
Total Hexa-Furans	32.79	5.289e5	4.298e5	2.748e4	2.286e4	1.20	NO	5.035e4	15.914	15.914	0.431	
Total Hexa-Furans	32.95	2.145e6	1.779e6	1.129e5	9.319e4	1.21	NO	2.061e5	65.151	65.151	0.431	
Total Hexa-Furans	33.31	4.424e4	3.933e4	2.375e3	2.099e3	1.13	NO	4.474e3	1.4141	1.4141	0.431	
Total Hexa-Furans	33.49	2.326e6	1.931e6	1.224e5	1.017e5	1.20	NO	2.241e5	70.833	70.833	0.431	
Total Hexa-Furans	33.86	1.408e5	1.139e5	7.046e3	5.814e3	1.21	NO	1.286e4	4.0648	4.0648	0.431	
1,2,3,4,7,8-HxCDF	33.96	1.339e7	1.129e7	7.645e5	6.396e5	1.20	NO	1.404e6	452.49	452.49	0.396	
1,2,3,6,7,8-HxCDF	34.09	3.595e6	3.011e6	2.581e5	2.155e5	1.20	NO	4.735e5	133.65	133.65	0.372	
Total Hexa-Furans	34.36	6.312e4	6.161e4	3.812e3	3.533e3	1.08	NO	7.345e3	2.3218	2.3218	0.431	
2,3,4,6,7,8-HxCDF	34.68	8.242e5	6.756e5	4.976e4	4.062e4	1.23	NO	9.038e4	29.575	29.575	0.447	
1,2,3,7,8,9-HxCDF	35.61	1.156e6	9.348e5	2.989e4	2.552e4	1.17	NO	5.542e4	22.869	22.869	0.638	
Total Hexa-Furans	35.62	1.297e6	1.083e6	6.478e4	5.201e4	1.25	NO	1.168e5	36.916	36.916	0.431	

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-16B.qld

Last Altered: Thursday, July 02, 2020 08:45:53 Pacific Daylight Time

Printed: Thursday, July 02, 2020 08:46:54 Pacific Daylight Time

Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

Hepta-Furans

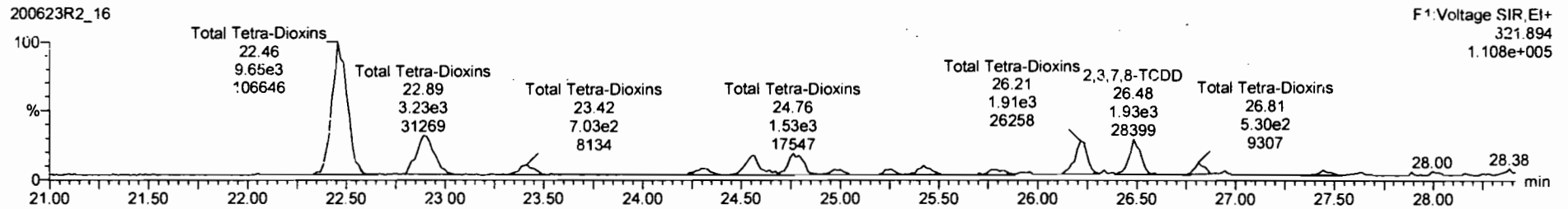
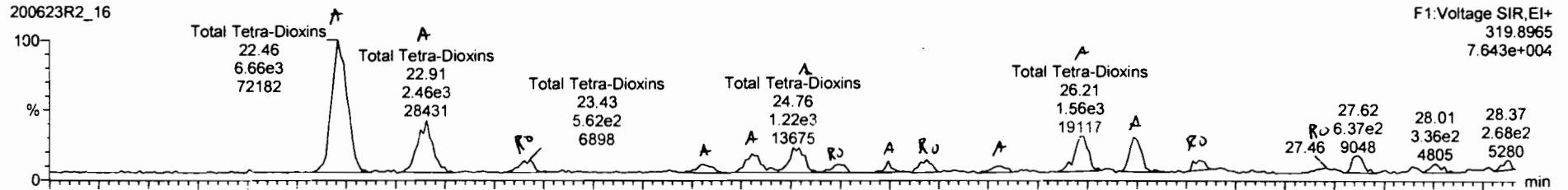
Peak	RT	m1 Height	m2 Height	m1 Ratio	m2 Ratio	Ratio	NO	Area	Area	Area	DL
1,2,3,4,6,7,8-HpCDF	37.37	1.805e6	1.820e6	1.456e5	1.447e5	1.01	NO	2.903e5	148.41	148.41	0.520
Total Hepta-Furans	37.76	3.748e4	4.196e4	3.244e3	2.981e3	1.09	NO	6.224e3	3.7924	3.7924	0.590
Total Hepta-Furans	37.99	2.422e6	2.440e6	2.094e5	2.094e5	1.00	NO	4.188e5	255.19	255.19	0.590
1,2,3,4,7,8,9-HpCDF	39.33	8.089e5	8.111e5	5.551e4	5.517e4	1.01	NO	1.107e5	71.938	71.938	0.597

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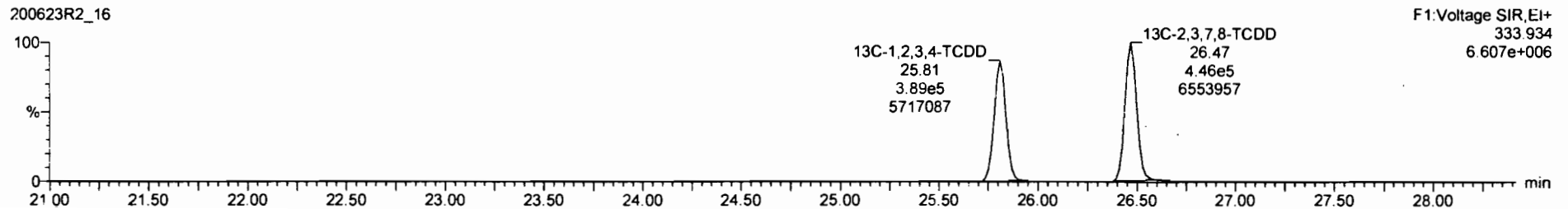
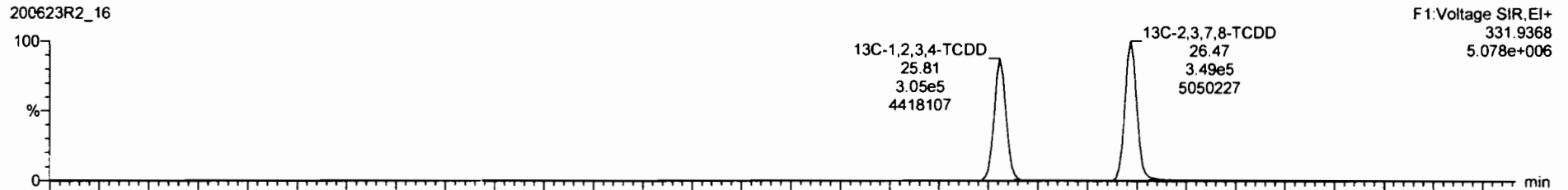
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Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

2,3,7,8-TCDD

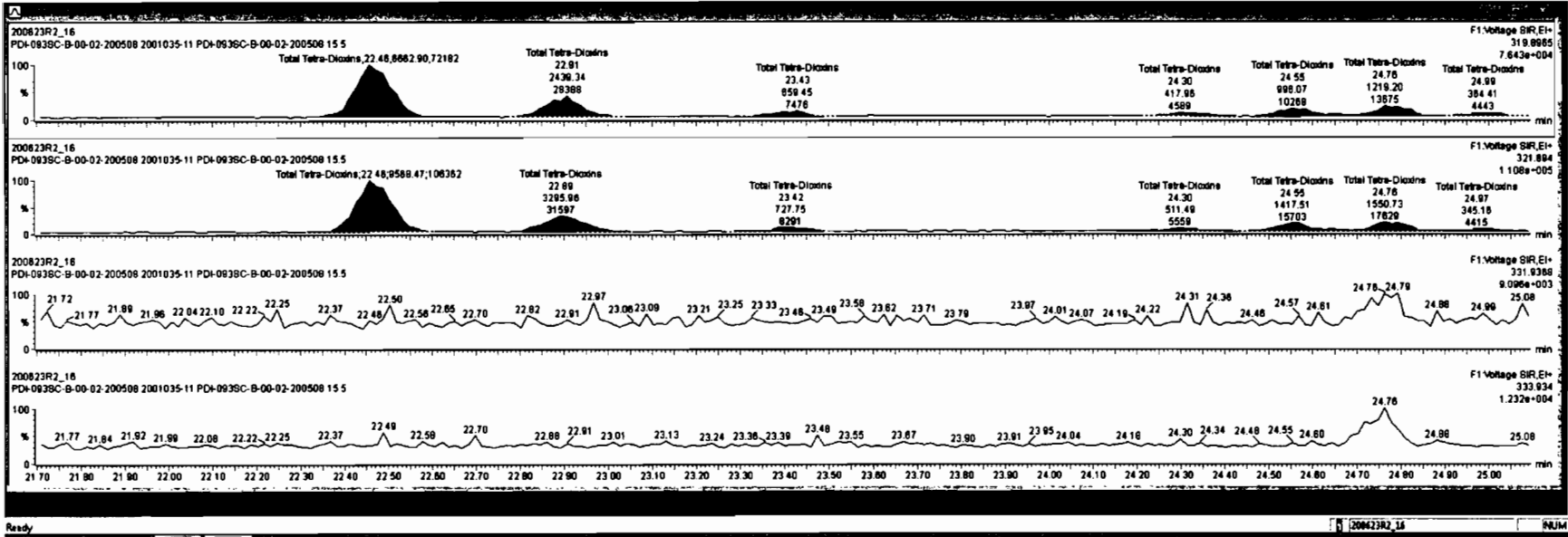


13C-2,3,7,8-TCDD



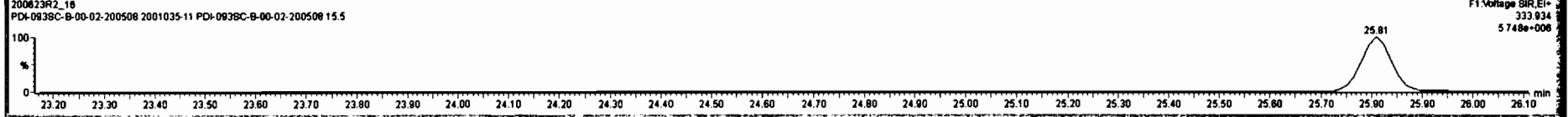
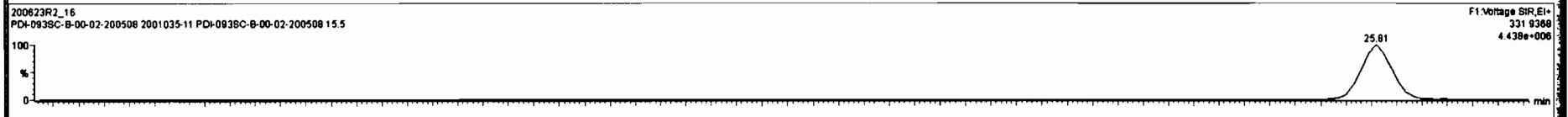
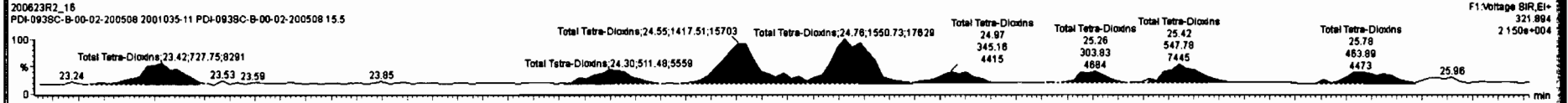
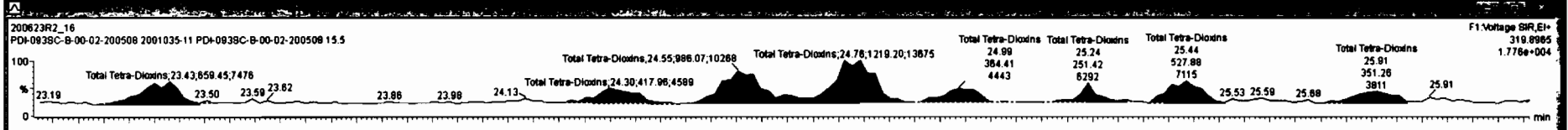
Mass	RT	Int Resp	Std Resp	Rel. Ret.	Ident	Conc	Area	Height		
48	Total Penta-Dioxins			0.8081	10.003	28.96		11.5	0.0096	15.2
49	Total Hexa-Dioxins			0.8923	10.003	33.63		81.2	0.381	81.2
42	Total Hepta-Dioxins			0.8636	10.003	37.64		445	0.733	445
43	Total Tetra-Furans			0.7510	10.003	23.81		752	0.248	750
44	Total Penta-Furans			0.8625	10.003	27.50		31.2	0.0303	31.2
45	Total Hexa-Furans			0.8625	10.003	28.27		878	0.388	882
46	Total Hepta-Furans			0.9341	10.003	33.58		847	0.431	847
47	Total Octa-Furans			0.9794	10.003	37.87		877	0.404	877

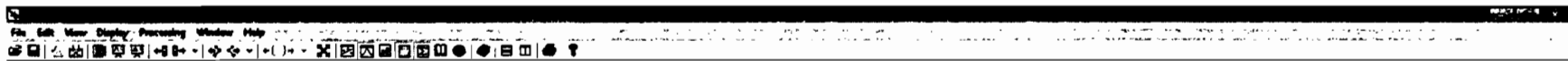
Mass	RT	Int Resp	Std Resp	Rel. Ret.	Ident	Conc	Area	Height
1	Total Tetra-Dioxins	28.81	5.25362	5.85442	0.83	YES	0.28300	0.00000
2	2,3,7,8-TCDF	28.48	1.27163	1.88263	0.86	NO	0.86888	0.86888
3	Total Tetra-Dioxins	28.21	1.58263	1.88263	0.81	NO	1.0080	1.0080
4	Total Tetra-Dioxins	25.81	3.51362	4.83862	0.78	NO	0.23075	0.23075
5	Total Tetra-Dioxins	25.44	5.27862	5.47862	0.88	YES	0.27448	0.00000



Peak	Name	Area	Height	Width	Retention	Response	Integration	Integration	Integration
46	Total Penta-Dioxine	0.9091	10.003	29.98	11.5	0.0898	15.2		
47	Total Hexa-Dioxine	0.8623	10.003	33.83	81.2	0.281	81.2		
42	Total Hepta-Dioxine	0.8638	10.003	37.84	445	0.733	445		
43	Total Tetra-Furane	0.7510	10.003	23.81	752	0.248	788		
44	1 of Func. Penta-Furane	0.8625	10.003	27.58	31.2	0.0303	31.2		
45	Total Penta-Furane	0.8625	10.003	28.27	876	0.388	882		
48	Total Hexa-Furane	0.9341	10.003	33.58	847	0.431	847		
49	Total Hepta-Furane	0.9734	10.003	37.83	477	0.477	477		

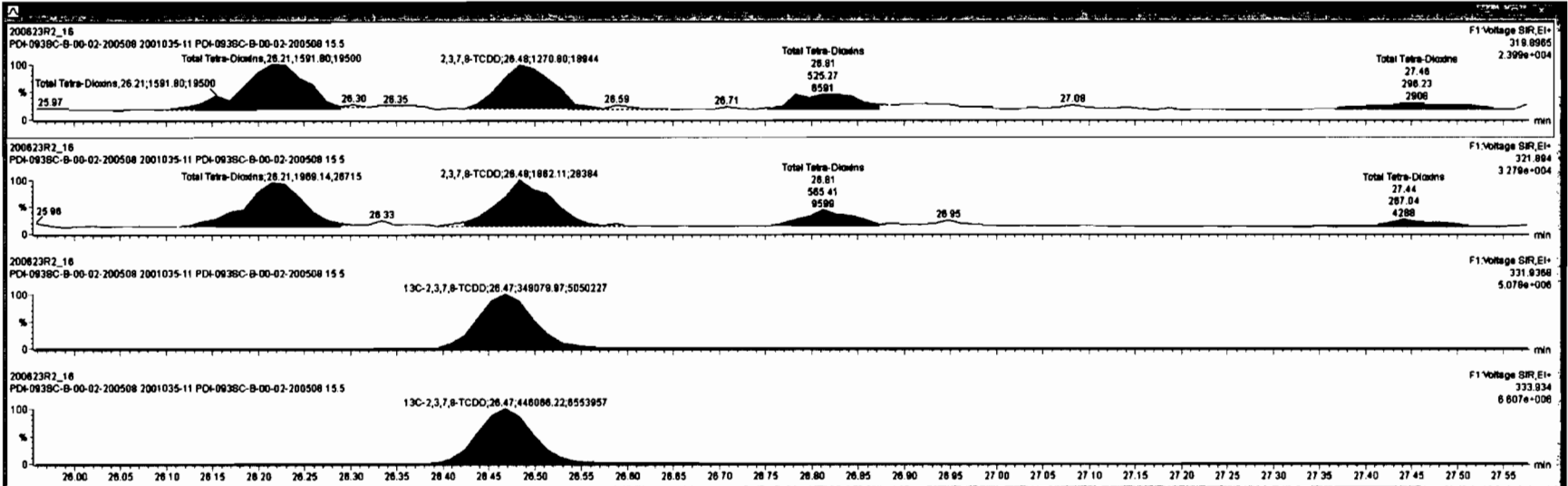
Peak	Name	Area	Height	Width	Retention	Response	Integration	Integration	Integration
5	Total Tetra-Dioxine	26.81	5.253e2	5.854e2	0.83	YES	0.28330	0.00000	
2	2,3,7,8-TCDD	26.48	1.271e3	1.862e3	0.88	NO	0.88688	0.88688	
3	Total Tetra-Dioxine	26.21	1.582e3	1.988e3	0.81	NO	1.0080	1.0080	
6	Total Tetra-Dioxine	25.81	3.513e2	4.838e2	0.78	NO	0.23075	0.23075	
8	Total Tetra-Dioxine	25.44	5.279e2	5.478e2	0.86	YES	0.27448	0.00000	





Sample	Parameter	Value	Unit	Method	Result	Unit	Method	Result
20	Total Penta-Dioxine	0.8081	10.000	28.98	11.5	0.0856	15.2	
45	Total Hexa-Dioxine	0.8823	10.000	33.83	81.2	0.281	81.2	
45	Total Hepta-Dioxine	0.8638	10.000	37.84	445	0.735	445	
45	Total Tetra-Furane	0.7510	10.000	29.81	752	0.248	788	
45	Total Furic, Penta-Furane	0.8825	10.000	27.58	31.2	0.0303	31.2	
45	Total Penta-Furane	0.8825	10.000	28.27	878	0.388	852	
45	Total Hexa-Furane	0.8341	10.000	33.58	847	0.431	847	
47	Total Hexa-Furane	0.8774	10.000	37.89	477	0.494	477	

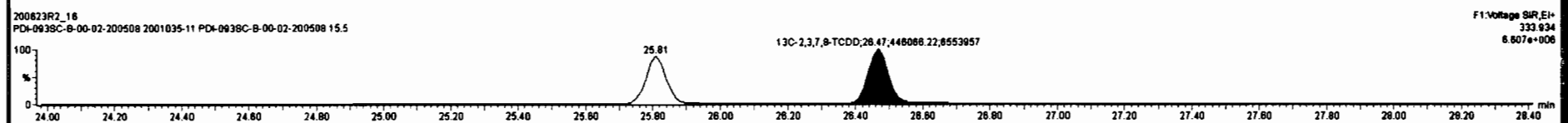
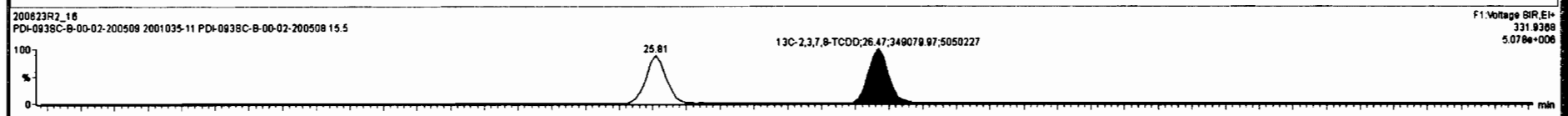
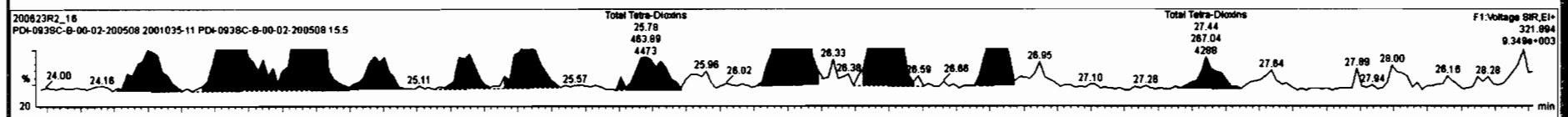
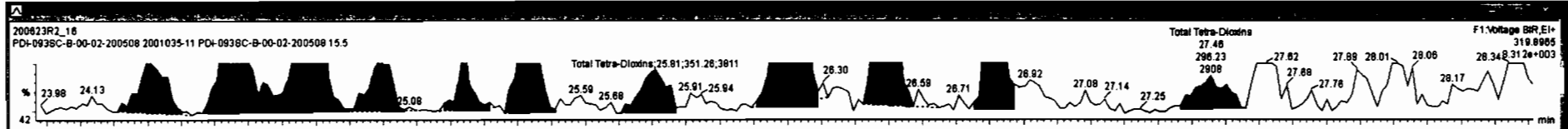
Sample	Parameter	RET	Height	Width	Area	Height	Area
20	Total Tetra-Dioxine	22.48	8.883e3	8.588e3	0.70	NO	4.5847
20	Total Tetra-Dioxine	22.81	2.439e3	3.289e3	0.74	NO	1.8235
20	Total Tetra-Dioxine	23.43	8.584e2	7.278e2	0.81	YES	0.36484
45	Total Tetra-Dioxine	24.30	4.180e2	5.115e2	0.82	NO	0.28310
45	Total Tetra-Dioxine	24.55	9.881e2	1.418e3	0.70	NO	0.88040



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40	Total Penta-Dioxine			0.9081	10.003	29.98		11.5		0.0858	15.2
41	Total Hexa-Dioxine			0.8823	10.003	33.83		81.2		0.281	81.2
42	Total Hepta-Dioxine			0.8636	10.003	37.84		445		0.733	445
43	Total Tetra-Furane			0.7510	10.003	23.81		752		0.248	780
44	1st Func. Penta-Furane			0.8625	10.003	27.58		31.2		0.0303	31.2
45	Total Penta-Furane			0.8625	10.003	28.27		878		0.388	882
46	Total Hexa-Furane			0.8341	10.003	33.58		847		0.431	847

Name	RT	Int	Area	Height	Width	Area%	Height%	Width%
Total Tetra-Dioxine	22.46	8.863e3	9.586e3	0.70	NO	4.5947	4.5947	
Total Tetra-Dioxine	22.91	2.439e3	3.286e3	0.74	NO	1.8235	1.8235	
Total Tetra-Dioxine	23.43	8.594e2	7.278e2	0.91	YES	0.36484	0.00000	
Total Tetra-Dioxine	24.30	4.180e2	5.115e2	0.82	NO	0.28310	0.28310	
Total Tetra-Dioxine	24.35	9.881e2	1.418e3	0.70	NO	0.88040	0.88040	



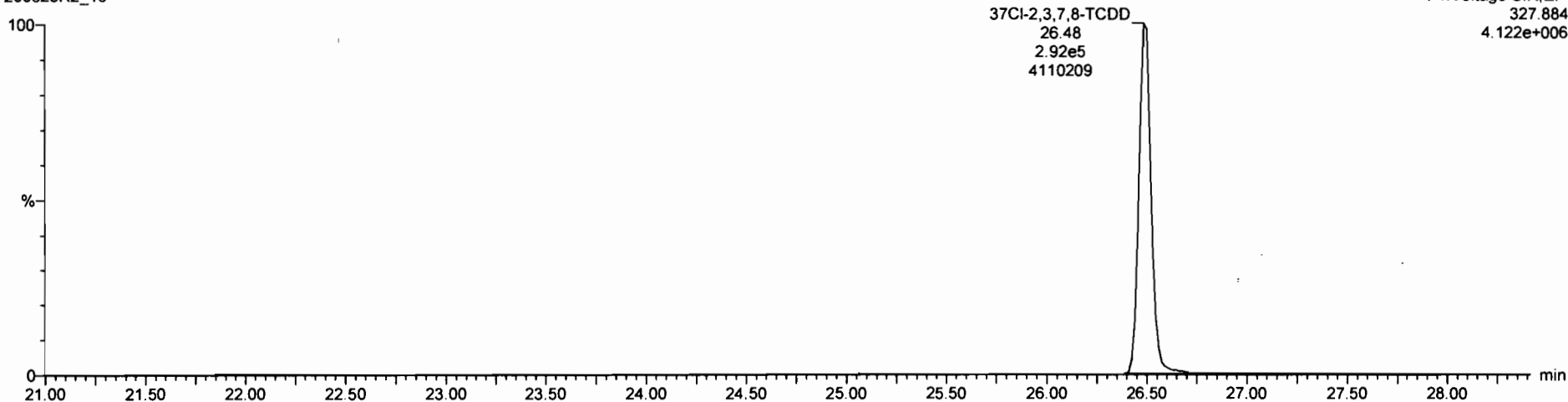
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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

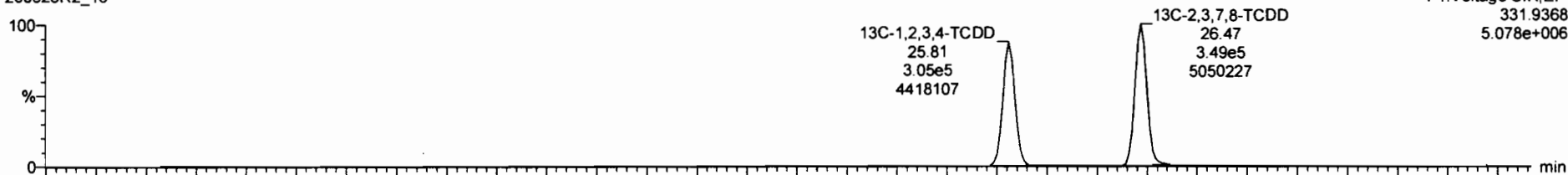
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200623R2_16

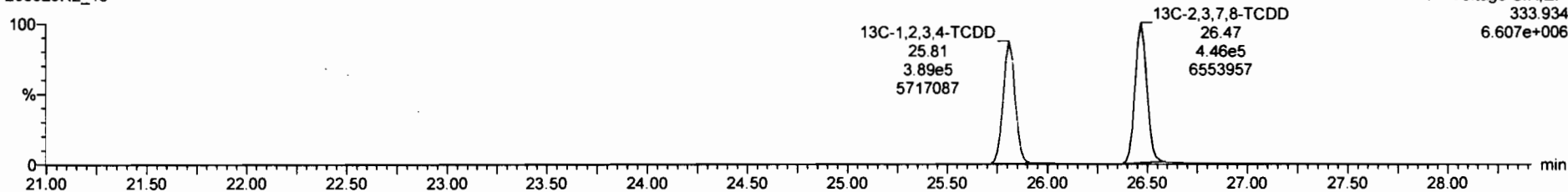


13C-1,2,3,4-TCDD

200623R2_16



200623R2_16



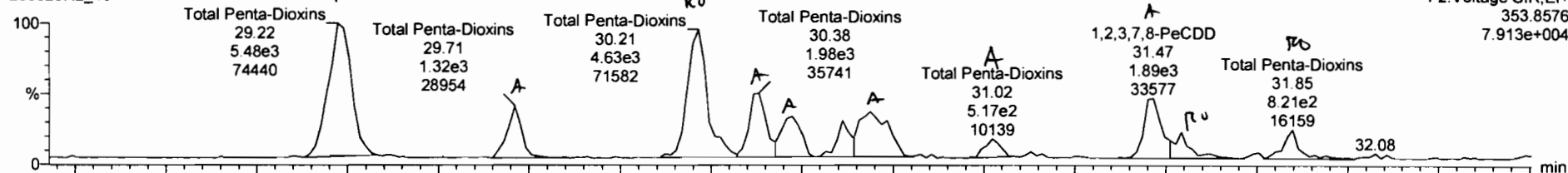
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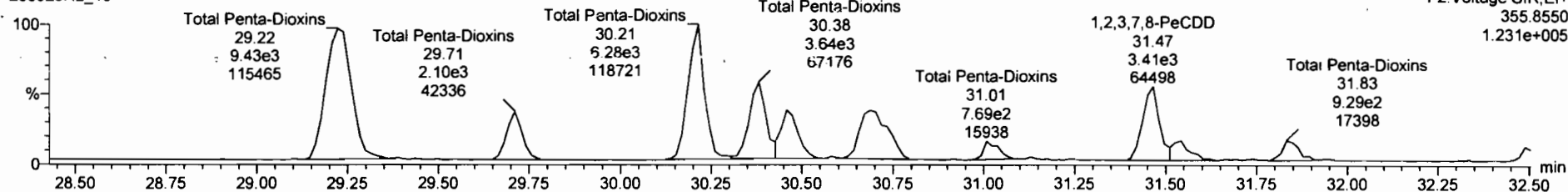
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1,2,3,7,8-PeCDD

200623R2_16

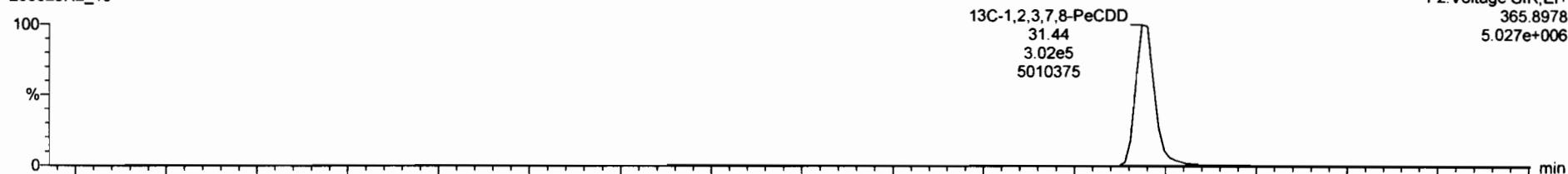


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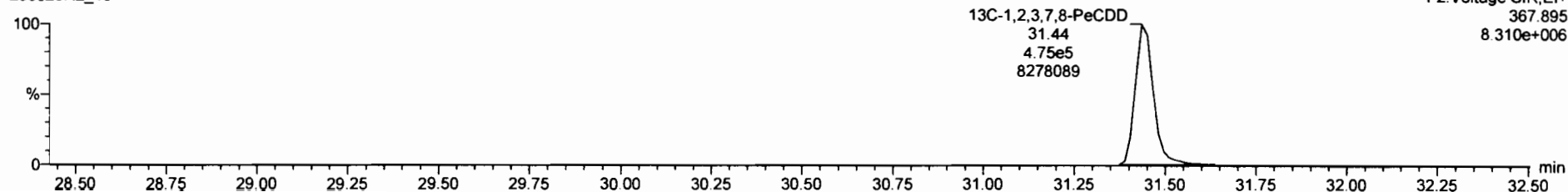


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200623R2_16



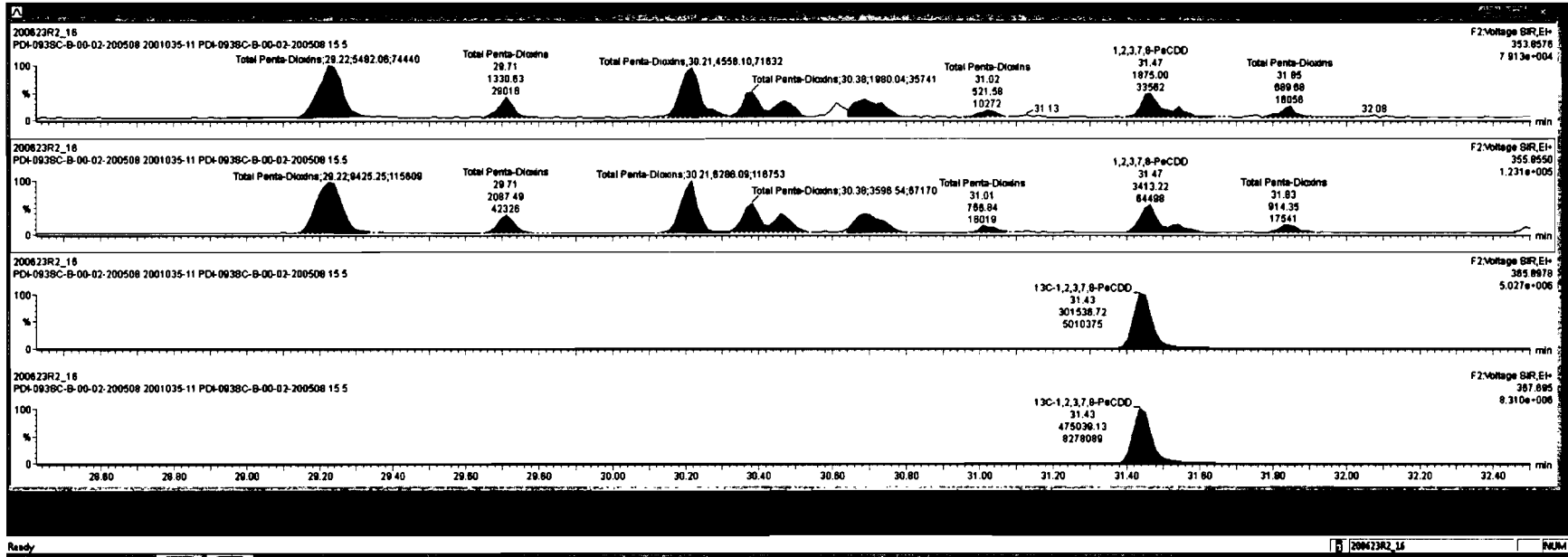
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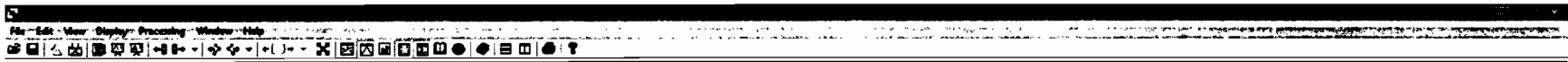




Sample	Concentration	Area	Height	Width	Retention Time	Integration	Integration
Total Tetra-Dioxins	0.8883	10.003	24.82		10.2	0.118	11.5
Total Hexa-Dioxins	0.8823	10.003	33.83		81.2	0.281	81.2
Total Hepta-Dioxins	0.8838	10.003	37.84		445	0.733	445
Total Tetra-Furans	0.7510	10.003	23.81		752	0.248	788
1st Func. Penta-Furans	0.8825	10.003	27.58		31.2	0.0303	31.2
Total Penta-Furans	0.8825	10.003	28.27		878	0.388	882
Total Hexa-Furans	0.8241	10.003	33.58		847	0.431	847
Total Mono-Dioxins	0.9734	10.003	97.89		277	0.484	277

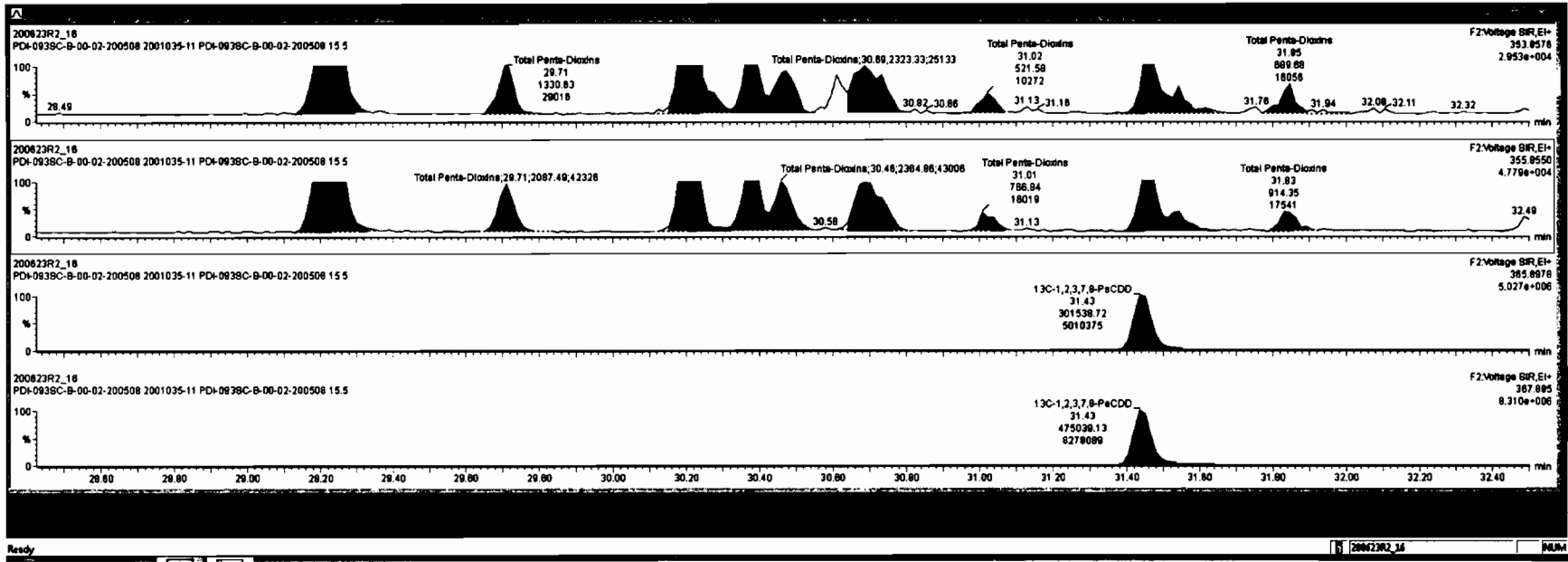
Sample	Concentration	Area	Height	Width	Retention Time	Integration	Integration
Total Penta-Dioxins	28.22	5.462e3	8.425e3	0.58	NO	4.2288	4.2288
Total Penta-Dioxins	28.71	1.331e3	2.087e3	0.84	NO	0.86818	0.86818
Total Penta-Dioxins	30.21	4.588e3	6.388e3	0.73	YES	2.9053	0.00000





Component	Area	Height	Width	Retention	Integration	Integration	Integration	Integration
Total Tetra-Dioxine	0.8883	10.003	24.82	10.2	0.118	11.5		
Total Hexa-Dioxine	0.8823	10.003	33.83	81.2	0.281	81.2		
Total Hepta-Dioxine	0.8638	10.003	37.84	445	0.733	445		
Total Tetra-Furane	0.7810	10.003	23.81	782	0.248	780		
1st Func. Penta-Furane	0.8825	10.003	27.58	31.2	0.0303	31.2		
Total Penta-Furane	0.8825	10.003	28.27	876	0.388	882		
Total Hexa-Furane	0.8341	10.003	33.58	847	0.431	847		

Component	Area	Height	Width	Retention	Integration	Integration
Total Penta-Dioxine	28.22	5.482e3	8.425e3	0.58	NO	4.2288
Total Penta-Dioxine	28.71	1.251e3	2.087e3	0.84	NO	0.58918
Total Penta-Dioxine	30.21	4.558e3	8.286e3	0.73	YES	7.9053



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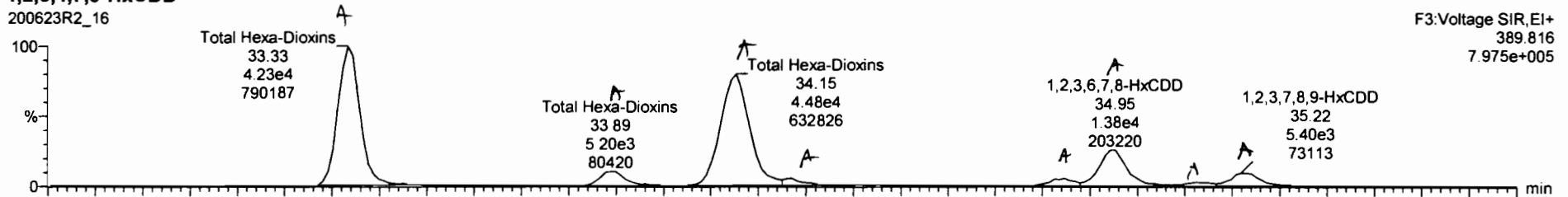
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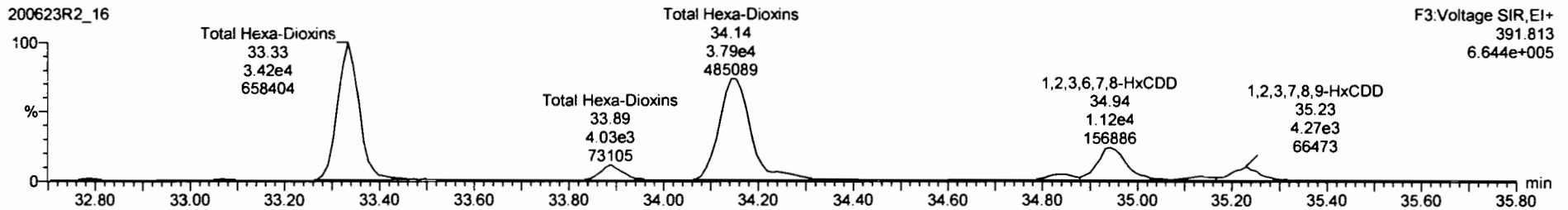
Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

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

200623R2_16

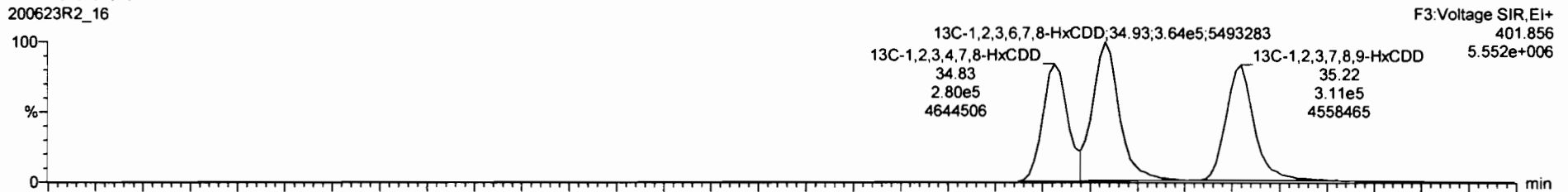


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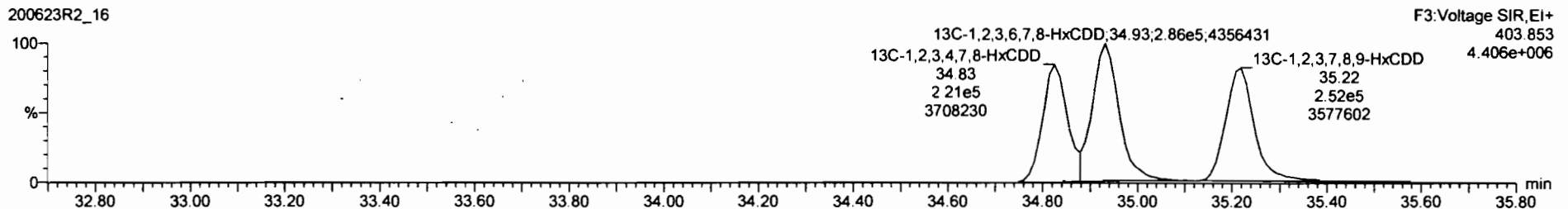


13C-1,2,3,4,7,8-HxCDD

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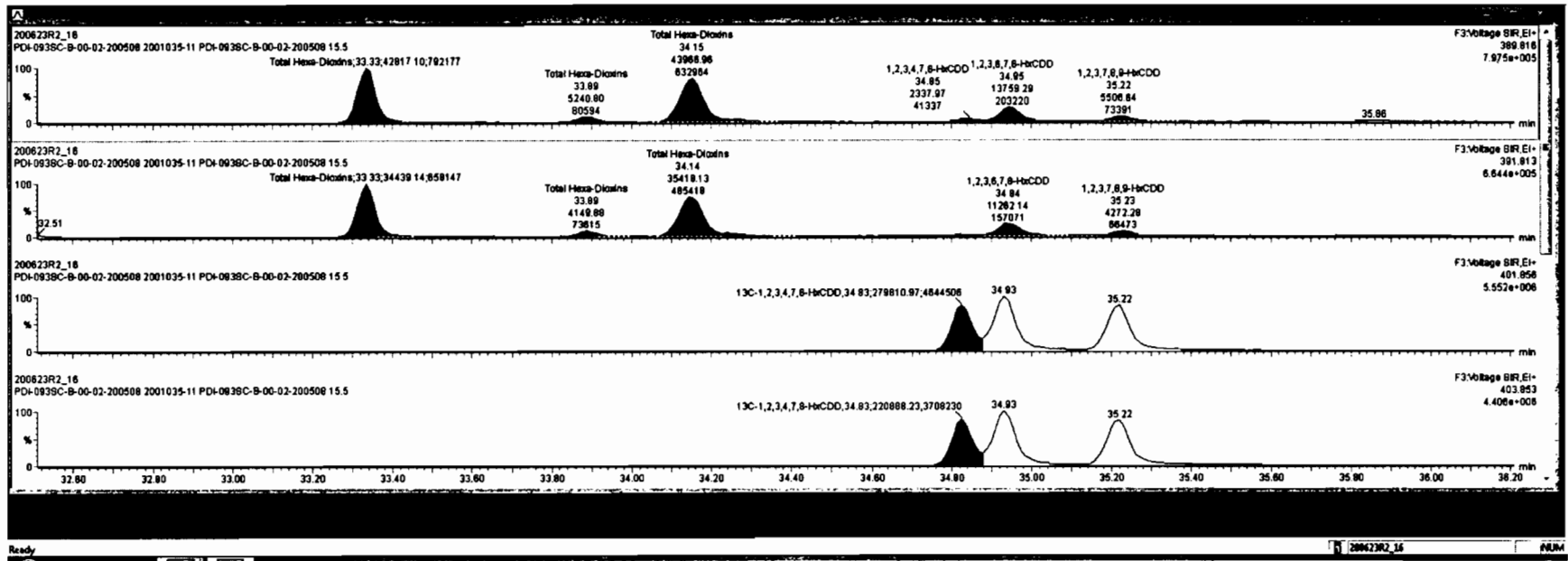
200623R2_16





Sample	Method	Unit	Value	Unit	Value	Unit	Value	Unit	Value
08	Total Tetra-Chlorine		0.8983	10.003	24.82		10.2		0.119
09	Total Penta-Chlorine		0.9081	10.003	29.90		11.5		0.0959
41	Total Hexa-Chlorine		0.8639	10.003	37.84		445		0.733
42	Total Tetra-Furane		0.7510	10.003	23.81		782		0.248
43	1st Func. Penta-Furane		0.8825	10.003	27.50		31.2		0.0303
44	Total Penta-Furane		0.8825	10.003	28.27		878		0.388
45	Total Hexa-Furane		0.8341	10.003	33.98		847		0.431

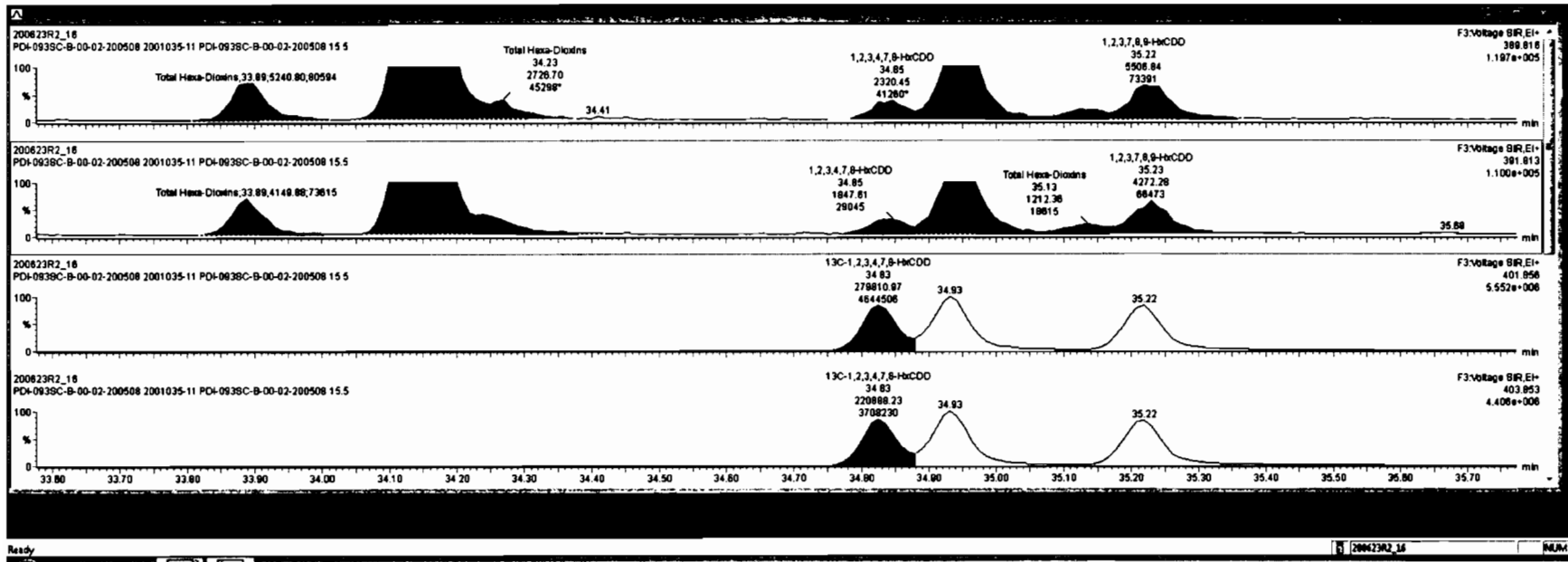
Sample	Method	Unit	Value	Unit	Value	Unit	Value	Unit	Value
1	Total Hexa-Chlorine		33.33	4.28294	3.44494	1.24	NO	30.507	30.507
2	Total Hexa-Chlorine		33.88	5.24143	4.15847	1.28	NO	3.8838	3.8838
3	Total Hexa-Chlorine		34.15	4.38794	3.54294	1.24	NO	31.143	31.143





Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration	Integration
427	Total Hexa-Chlorine	0.8803	10.003	24.82	10.2	0.118	11.5	
428	Total Penta-Chlorine	0.8001	10.003	28.80	11.5	0.0658	15.2	
429	Total Hexa-Chlorine	0.8638	10.003	37.84	445	0.733	445	
430	Total Tetra-Chlorine	0.7510	10.003	23.81	752	0.248	780	
440	1st Func. Penta-Furane	0.8825	10.003	27.58	31.2	0.0303	31.2	
441	Total Penta-Furane	0.8825	10.003	28.27	878	0.388	882	
442	Total Hexa-Furane	0.8341	10.003	33.95	847	0.431	847	

Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration	Integration
33	Total Hexa-Chlorine	33.33	4.282e4	3.444e4	1.24	NO	30.307	30.307
34	Total Hexa-Chlorine	33.88	5.211e3	4.150e3	1.28	NO	3.8838	3.8838
35	Total Hexa-Chlorine	34.15	4.387e4	3.542e4	1.24	NO	31.143	31.143



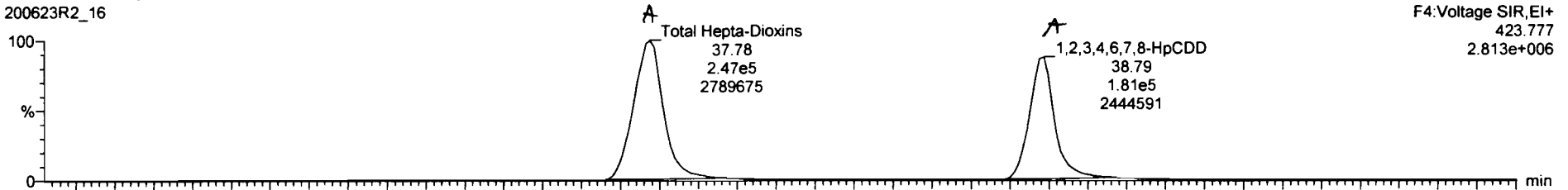
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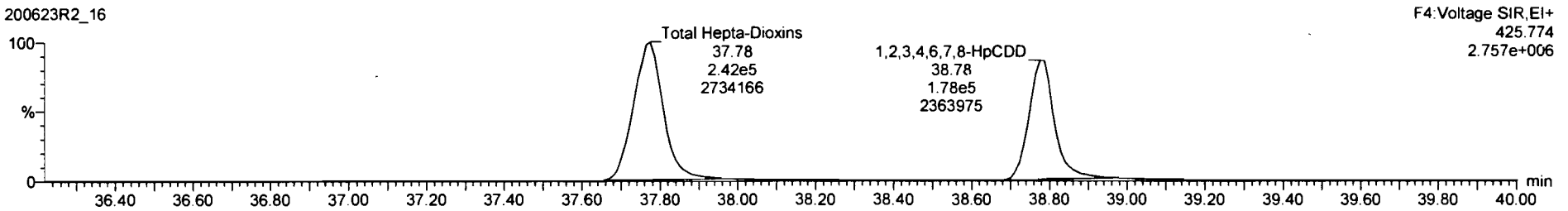
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1,2,3,4,6,7,8-HpCDD

200623R2_16

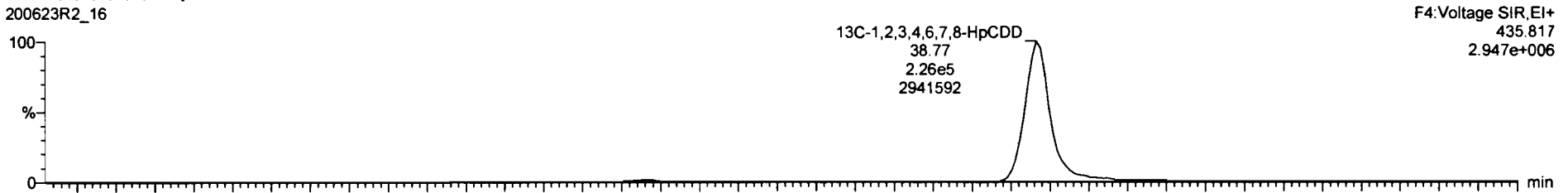


200623R2_16

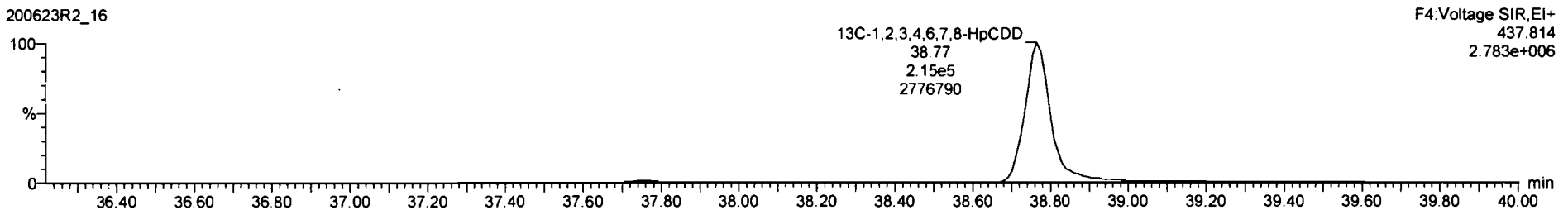


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200623R2_16



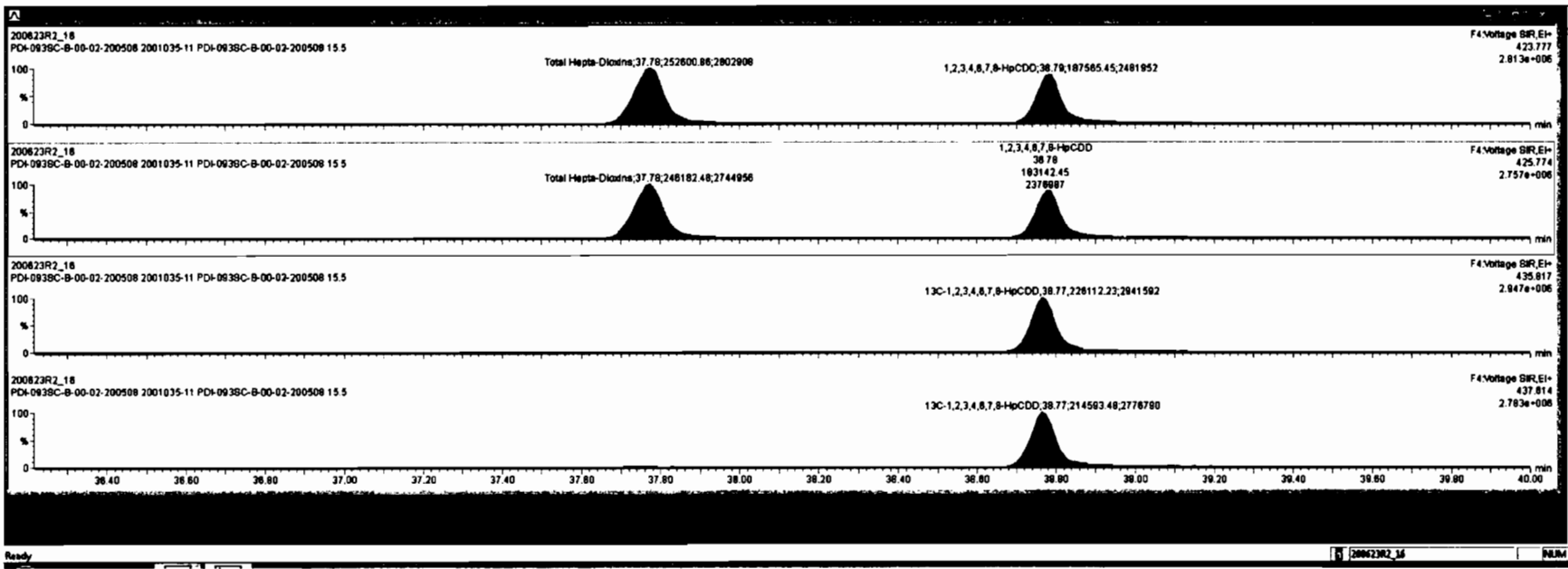
200623R2_16





Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration	Integration
Total Tetra-Dioxine	10.2	0.8923	10.000	24.82				0.119 11.5
Total Penta-Dioxine	11.5	0.9091	10.000	26.98				0.0800 15.2
Total Hexa-Dioxine	33.83	0.8823	10.000	33.83				80.3 0.281 82.2
Total Tetra-Furane	23.81	0.7510	10.000	23.81				782 0.248 789
1st Func. Penta-Furane	27.59	0.8825	10.000	27.59				31.2 0.0303 31.2
Total Penta-Furane	28.27	0.8825	10.000	28.27				876 0.389 882
Total Hexa-Furane	33.59	0.9341	10.000	33.59				847 0.431 847

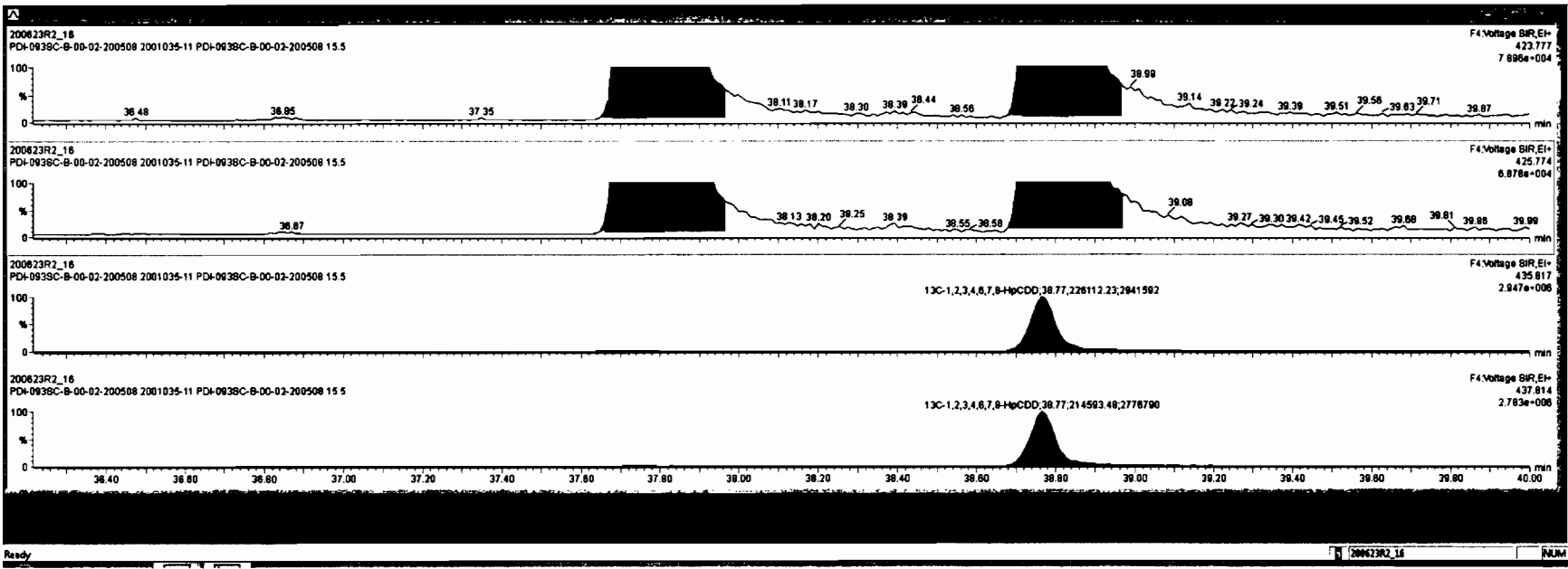
Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration	Integration
Total Hepta-Dioxine	37.78	2.528e5	2.482e5	1.03	NO	281.95	281.95	
1,2,3,4,6,7,8-HpCDD	38.79	1.879e5	1.831e5	1.02	NO	194.98	194.98	





Peak	Retention Time (min)	Area	Height	Width	Height	Area	Height	Width
83	36.48	0.8683	10.003	24.82		10.2	0.119	11.5
84	38.85	0.9091	10.003	26.86		11.5	0.0896	15.2
85	37.35	0.8623	10.003	33.83		80.3	0.281	82.2
86	38.99	0.7510	10.003	23.81		752	0.248	780
87	38.11	0.8825	10.003	27.58		31.2	0.0303	31.2
88	38.13	0.8825	10.003	28.27		876	0.380	882
89	38.25	0.9341	10.003	33.58		847	0.431	847

Peak	Retention Time (min)	Area	Height	Width	Height	Area	Height	Width
90	38.87	37.78	2.420e5	2.440e5	1.03	NO	291.85	291.85
91	38.78	1.878e5	1.831e5	1.02	NO	194.89	194.89	

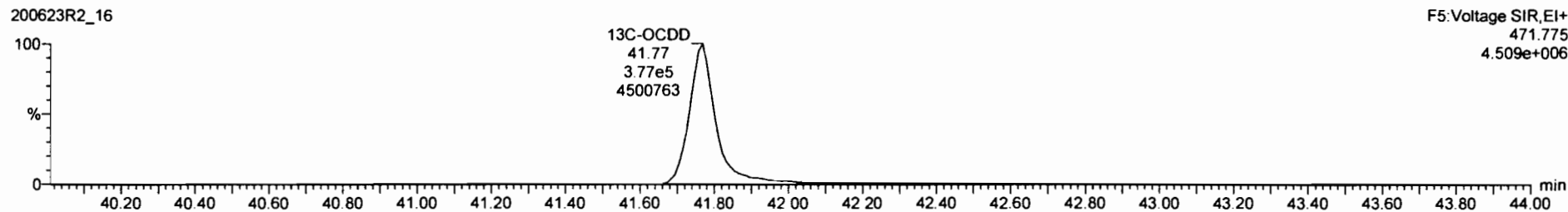
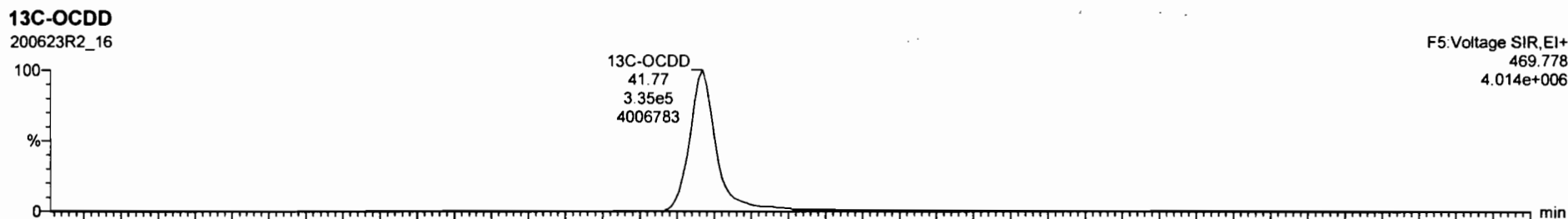
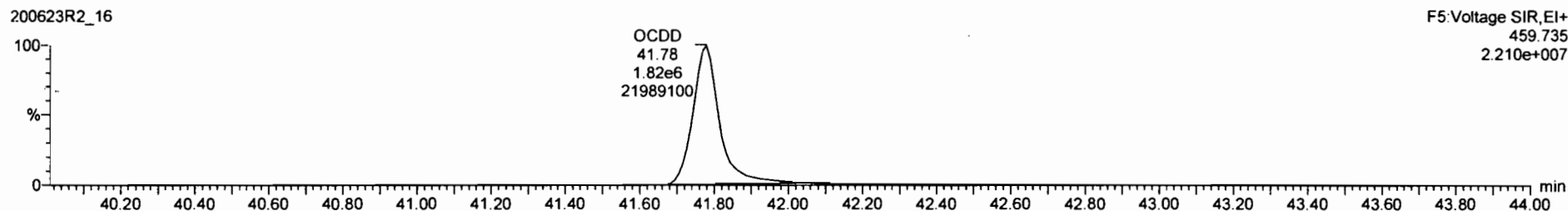
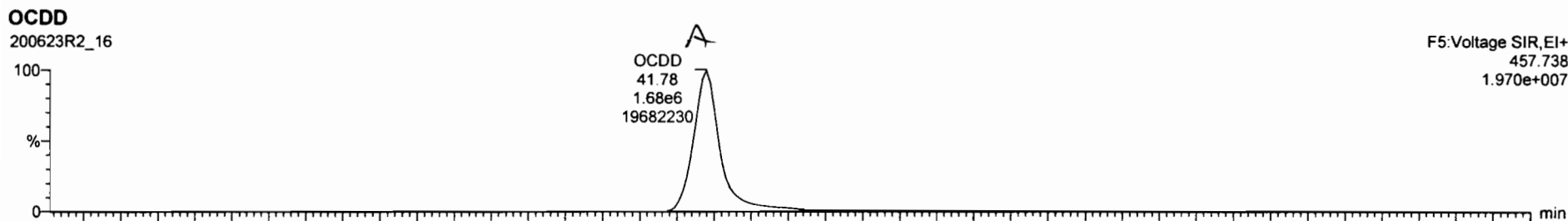


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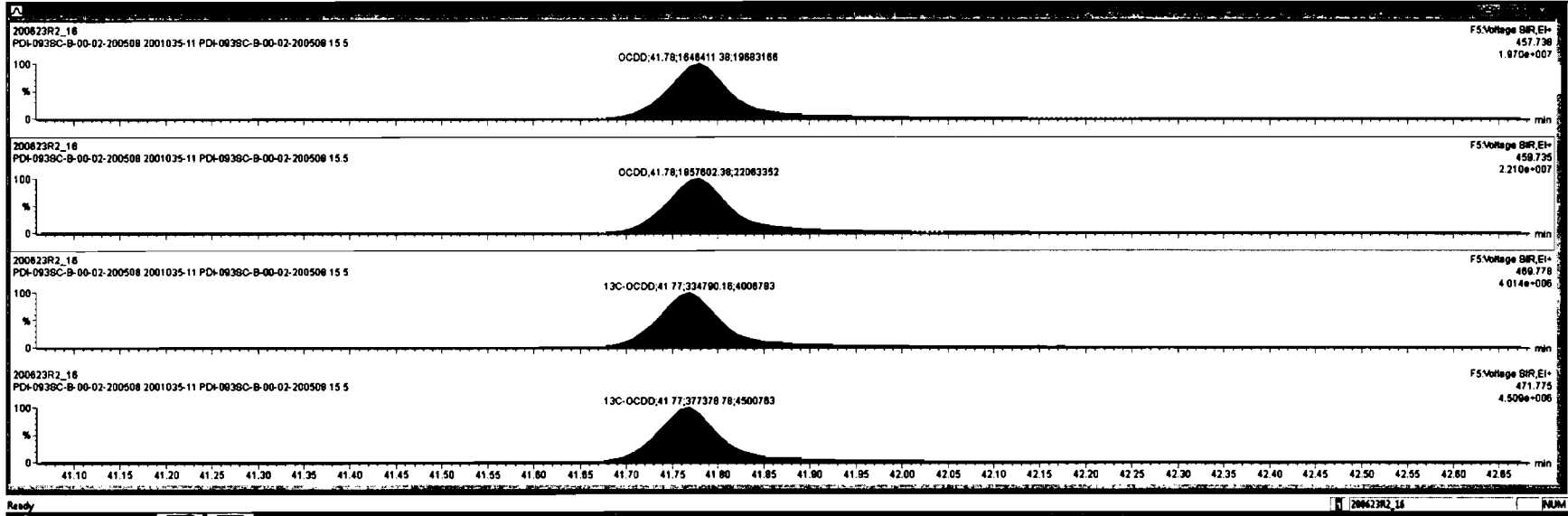
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Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508



PK	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
1	2.37	1.07e6	0.79	NO	0.7510	10.003	25.80	25.80	1.001	284
2	1.23,7.8	1.81e6	1.54	NO	0.8925	10.003	30.17	30.17	1.001	344
10	1.23,7.8	1.02e6	1.53	NO	0.8348	10.003	31.18	31.18	1.000	190
104	1.23,7.8	1.40e6	1.20	NO	0.8845	10.003	33.85	33.86	1.000	462
107	1.23,7.8	4.74e5	1.20	NO	0.8882	10.003	34.08	34.08	1.001	134
112	1.23,7.8	9.04e4	1.23	NO	0.9341	10.003	34.70	34.80	1.000	28.8
114	1.23,7.8	5.54e4	1.17	NO	0.8707	10.003	35.59	35.61	1.001	22.9

PK	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
1	2.37	1.07e6	0.79	NO	0.7510	10.003	25.80	25.80	1.001	284



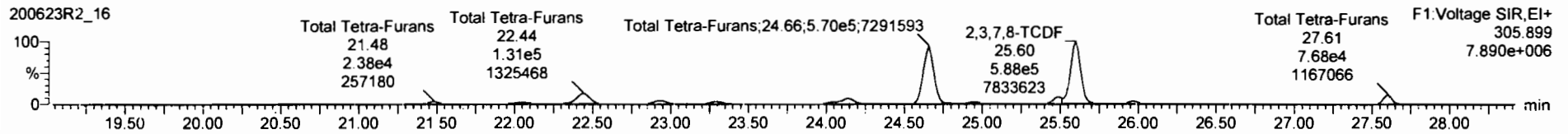
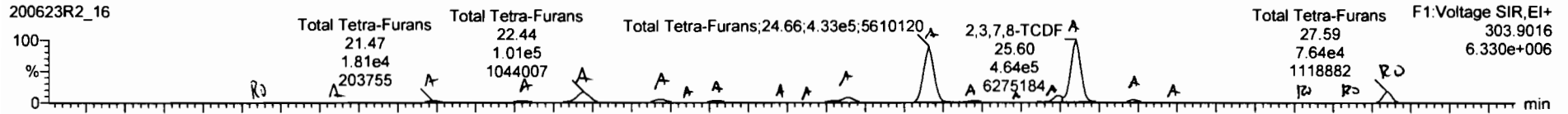
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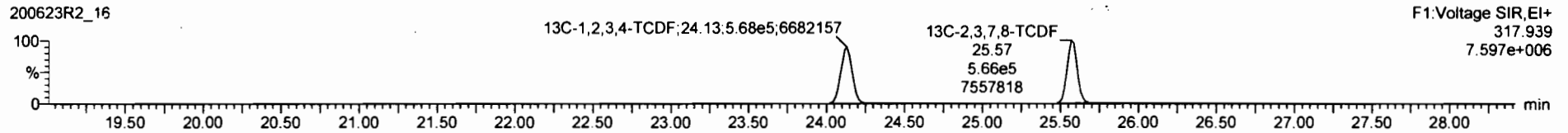
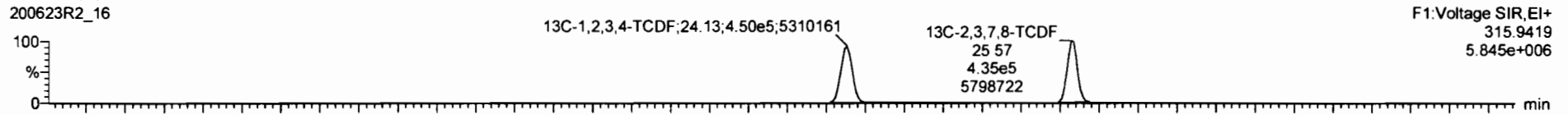
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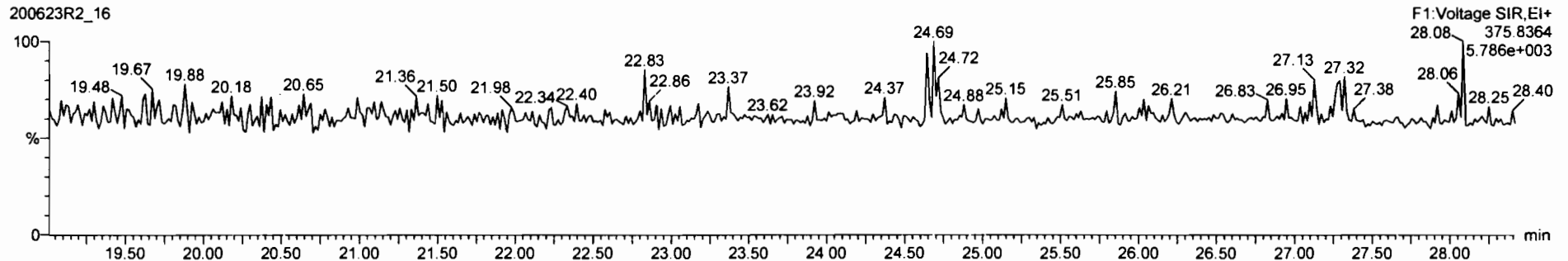
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13C-2,3,7,8-TCDF



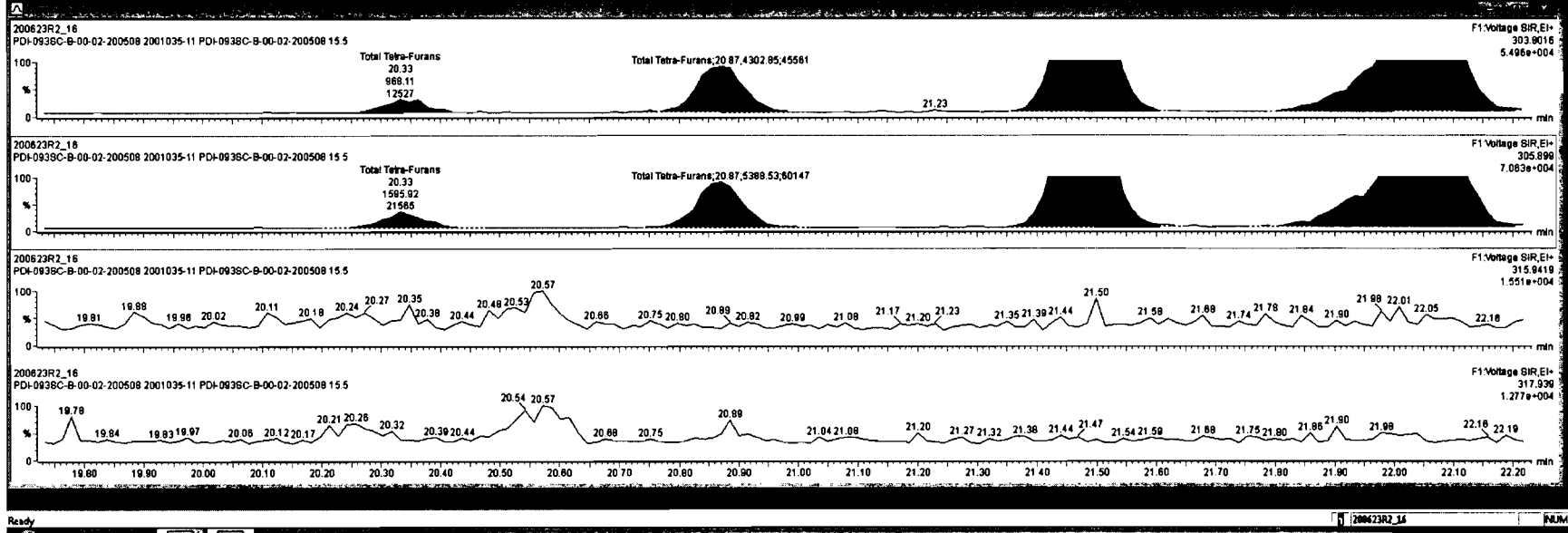
DPE1





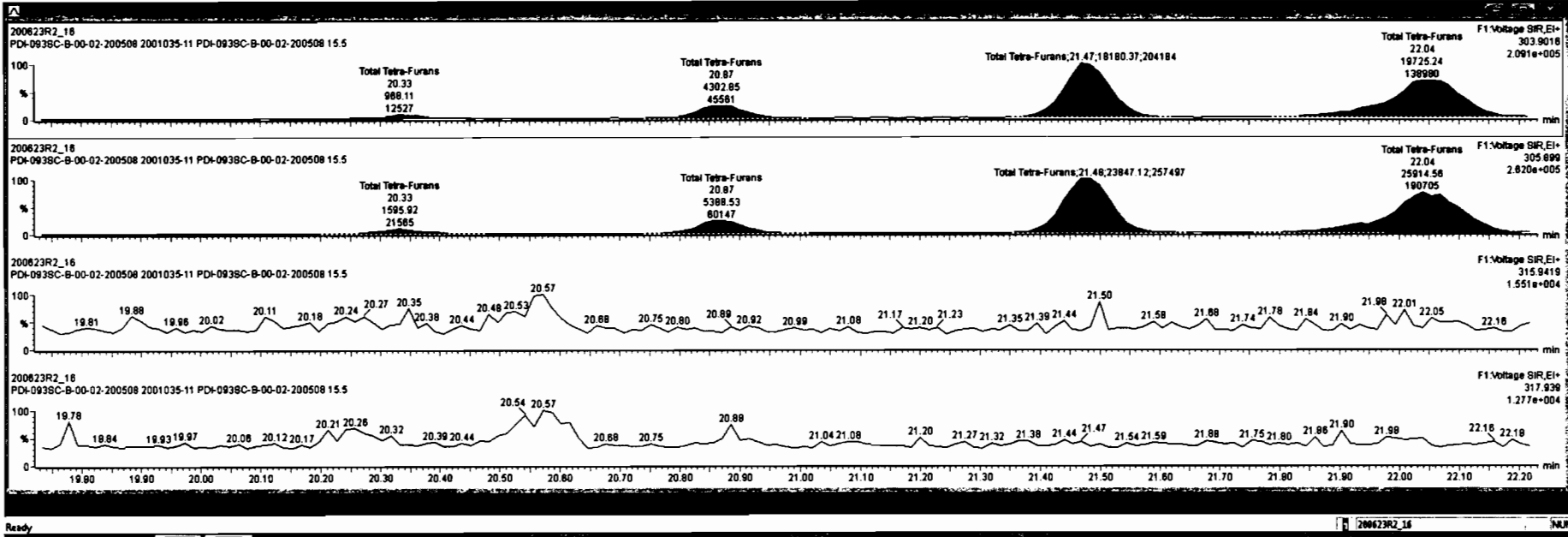
RT	Net Area	Yield (%)	Yield Range	RA	WY	SNPC	Comp.
46	1st Func: Penta-Furans	0.8625	10.000	27.50	31.2	0.0003	31.2
45	Total Penta-Furans	0.8625	10.000	29.27	878	0.388	882
46	Total Hexa-Furans	0.8341	10.000	33.58	847	0.431	847
47	Total Hepta-Furans	0.8734	10.000	37.83	477	0.598	477
48	PF11						
49	PF12						
50	PF13						
51	PF14						

Name	RT	Net Area	Yield (%)	RA	WY	SNPC	Comp.
1 Total Tetra-Furans	24.86	4.382e5	5.782e5	0.78	NO	270.44	270.44
2 Total Tetra-Furans	24.15	5.795e4	7.880e4	0.75	NO	35.930	35.920
3 Total Tetra-Furans	23.80	1.233e3	1.851e3	0.75	NO	0.78851	0.78851
4 Total Tetra-Furans	23.74	3.835e3	4.925e3	0.78	NO	2.3313	2.3313
5 Total Tetra-Furans	23.30	1.811e4	2.518e4	0.72	NO	11.508	11.508



Peak	Area	Height	Retention	Integration	Integration	Integration	Integration	Integration	
1st Func. Penta-Furans			0.8625	10.003	27.58		31.2	0.0303	31.2
Total Penta-Furans			0.8625	10.003	28.27		878	0.388	882
Total Hexa-Furans			0.8241	10.003	33.58		847	0.431	847
Total Hepta-Furans			0.8734	10.003	37.83		477	0.586	477
PFK1									
PFK2									
PFK3									

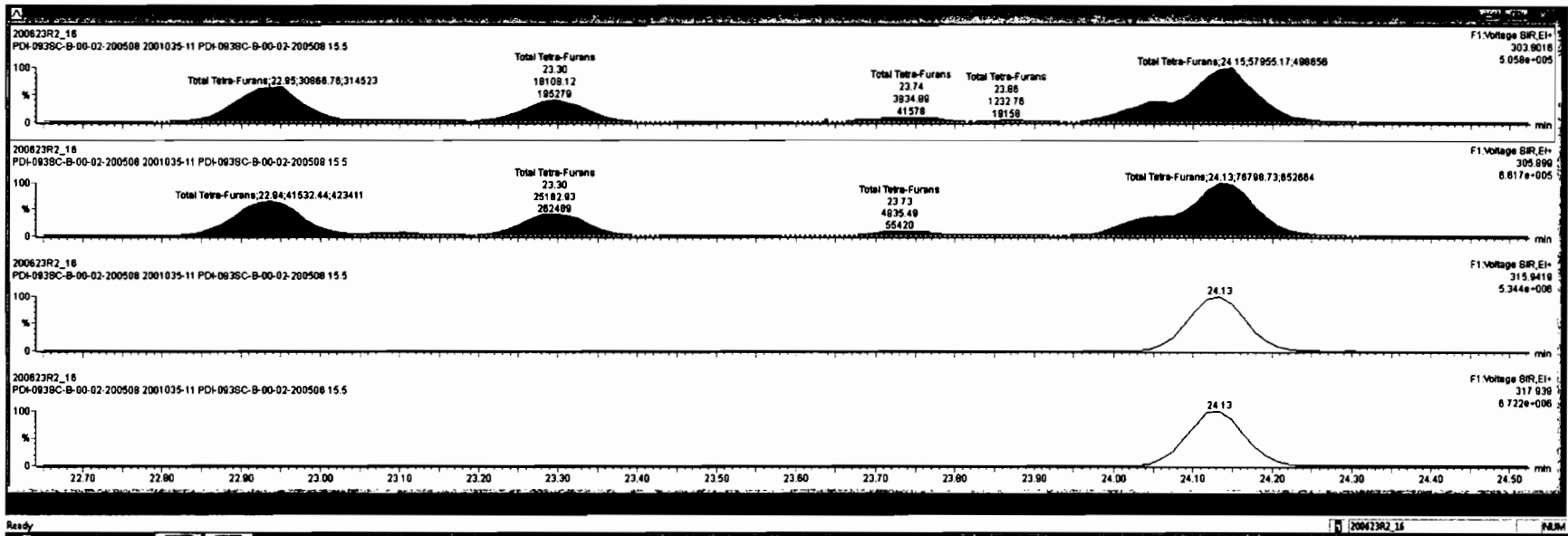
Mass	Area	Height	Retention	Integration	Integration	Integration	Integration
Total Tetra-Furans	24.68	4.302e5	5.782e5	0.78	NO	270.44	270.44
Total Tetra-Furans	24.15	5.789e4	7.880e4	0.75	NO	35.820	35.820
Total Tetra-Furans	23.88	1.233e3	1.851e3	0.75	NO	0.78851	0.78851
Total Tetra-Furans	23.74	3.835e3	4.835e3	0.78	NO	2.3313	2.3313
Total Tetra-Furans	23.30	1.811e4	2.518e4	0.72	NO	11.508	11.508





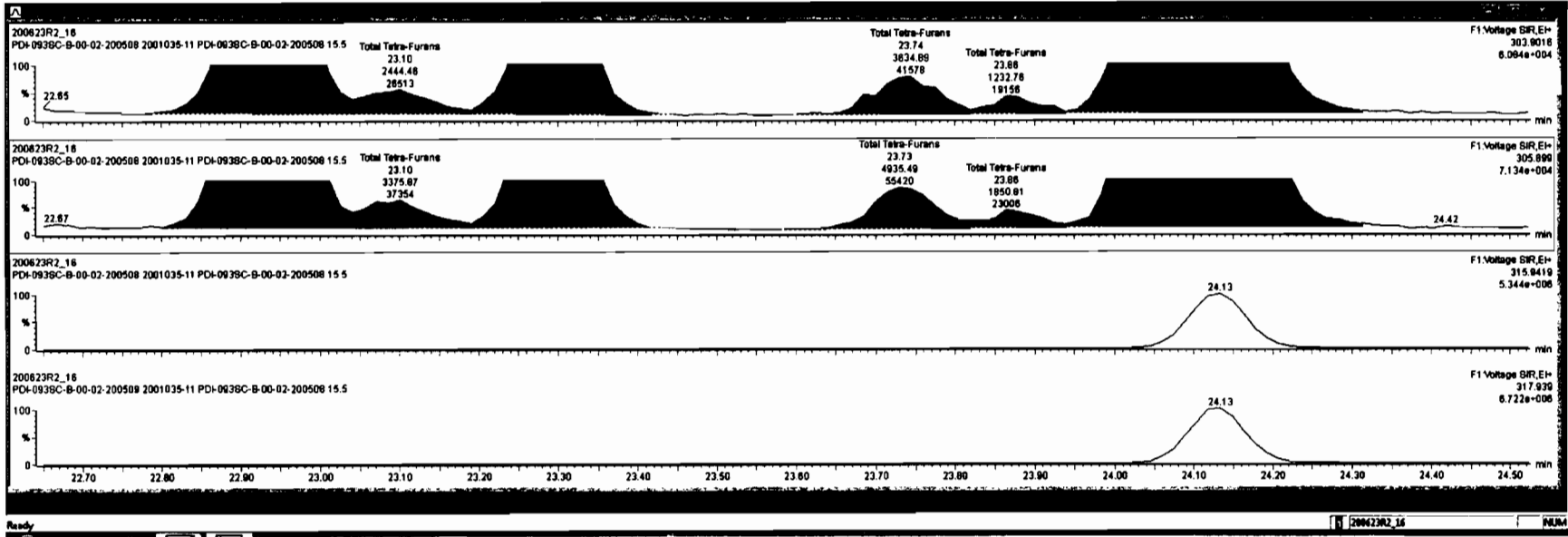
RT	Area	Height	Width	Area%	Height%	Width%
21.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
21.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
21.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
21.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
21.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003

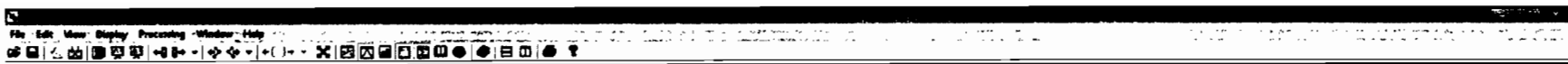
RT	Area	Height	Width	Area%	Height%	Width%
20.33	1.596e3	0.81	1.596e3	0.81	0.81	0.81
20.87	5.306e3	0.80	5.306e3	0.80	0.80	0.80
21.47	2.385e4	0.78	2.385e4	0.78	0.78	0.78
22.04	2.591e4	0.78	2.591e4	0.78	0.78	0.78
22.44	1.328e5	0.78	1.328e5	0.78	0.78	0.78



PK1	PK2	PK3	PK4	PK5	PK6	PK7	PK8	PK9	PK10
0.8625	10.003	27.80			31.2		0.0203	31.2	
0.8625	10.003	28.27			678		0.388	852	
0.8341	10.003	33.58			847		0.431	847	
0.8734	10.003	37.83			477		0.588	477	

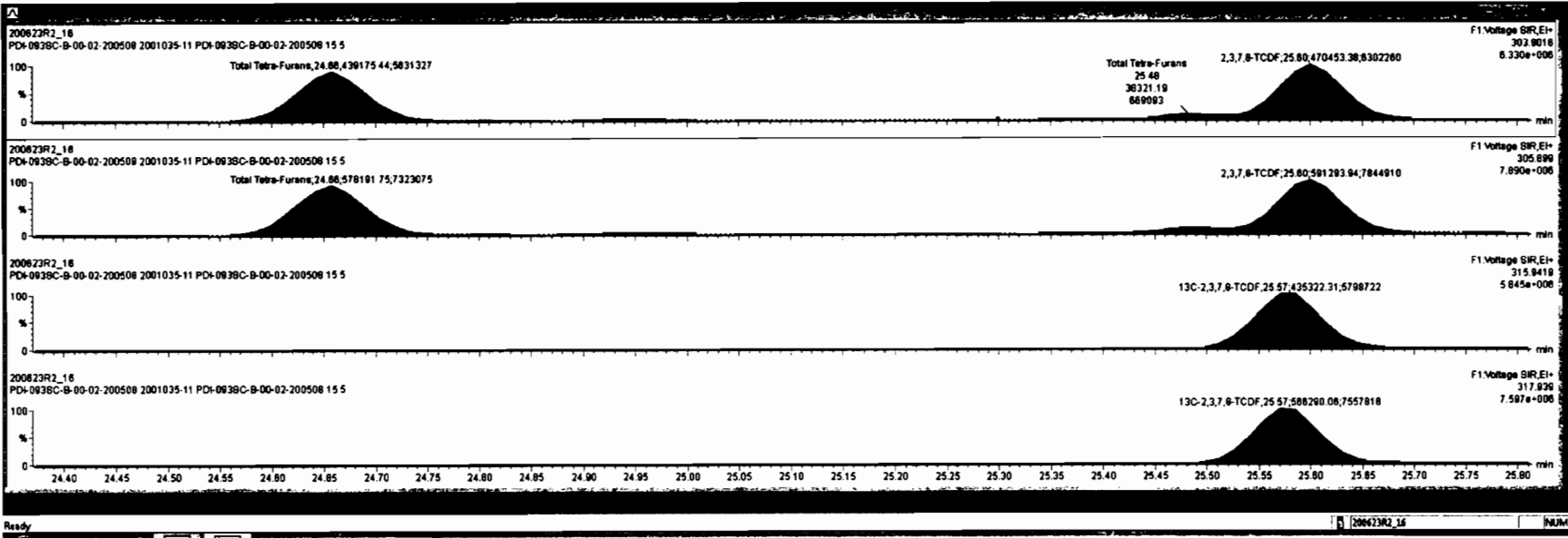
PK1	PK2	PK3	PK4	PK5	PK6	PK7	PK8	PK9	PK10
20.33	8.891e2	1.588e3	0.81	YES	0.59158	0.00000			
20.87	4.303e3	5.308e3	0.80	NO	2.5782	2.5782			
21.47	1.818e4	2.386e4	0.78	NO	11.172	11.172			
22.04	1.873e4	2.891e4	0.78	NO	12.132	12.132			
22.44	1.011e6	1.328e5	0.78	NO	82.202	82.202			





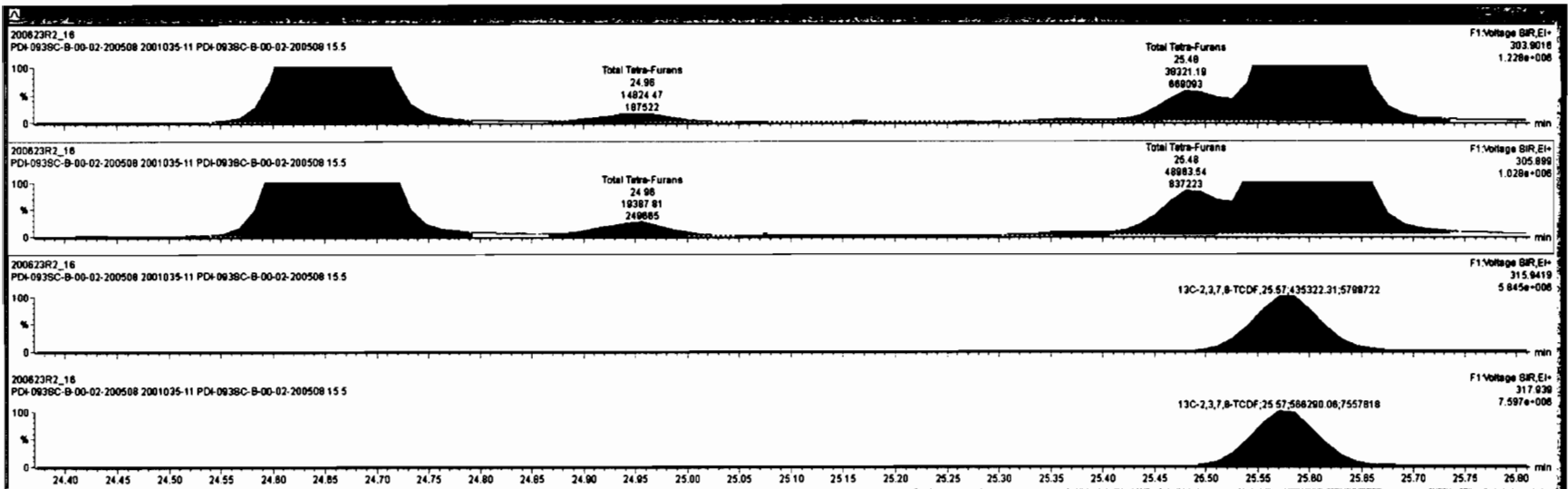
Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration
66	Total Penta-Furans	0.8625	10.003	27.58	31.2	0.0303	31.2	
67	Total Hexa-Furans	0.8625	10.003	28.27	678	0.396	662	
68	Total Hepta-Furans	0.8341	10.003	33.56	847	0.431	847	
69	Total Octa-Furans	0.8734	10.003	37.83	477	0.586	477	

Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration
70	Total Tetra-Furans	20.33	8.891e2	1.586e3	0.81	YES	0.59158	0.00000
71	Total Tetra-Furans	20.87	4.303e3	5.386e3	0.80	NO	2.5762	2.5762
72	Total Tetra-Furans	21.47	1.818e4	2.365e4	0.78	NO	11.172	11.172
73	Total Tetra-Furans	22.04	1.873e4	2.581e4	0.78	NO	12.132	12.132
74	Total Tetra-Furans	22.44	1.011e5	1.328e5	0.78	NO	82.202	82.202



Item	Concentration	Area	Height	Width	Area%	Height%	Width%
46-1	Total Furans-Penta-Furans	0.8825	10.000	27.58	31.2	0.0303	31.2
46-2	Total Penta-Furans	0.8825	10.000	26.27	876	0.380	882
46-3	Total Hexa-Furans	0.9341	10.000	33.58	847	0.431	847
46-4	Total Hepta-Furans	0.8734	10.000	37.83	477	0.586	477
46-5	PFK1						
46-6	PFK2						
46-7	PFK3						

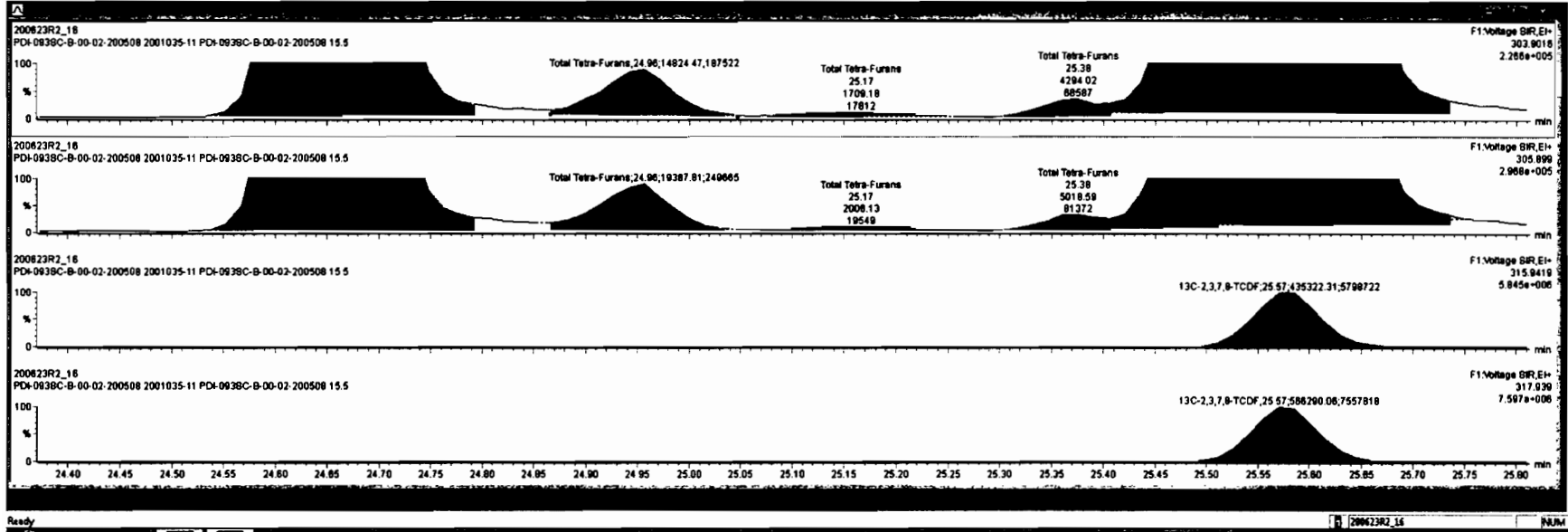
Item	Area	Height	Width	Area%	Height%	Width%		
1	Total Tetra-Furans	20.33	9.891e2	1.589e3	0.81	YES	0.58158	0.00000
2	Total Tetra-Furans	20.87	4.303e3	5.389e3	0.80	NO	2.5782	2.5782
3	Total Tetra-Furans	21.47	1.818e4	2.385e4	0.78	NO	11.172	11.172
4	Total Tetra-Furans	22.04	1.873e4	2.581e4	0.78	NO	12.132	12.132
5	Total Tetra-Furans	22.44	1.011e5	1.320e5	0.78	NO	82.202	82.202





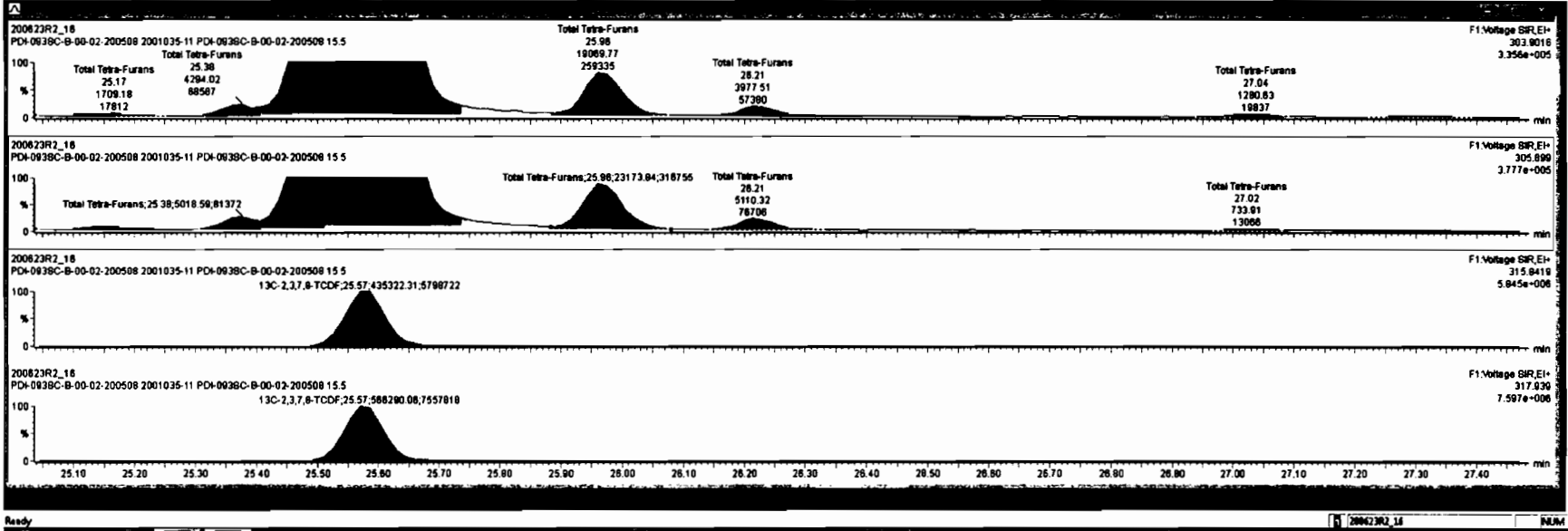
46.1	1st Func. Penta-Furans			0.8625	10.003	27.56			31.2		0.0303	31.2
46.2	Total Penta-Furans			0.8625	10.003	28.27			876		0.368	882
46.3	Total Hexa-Furans			0.8341	10.003	33.56			847		0.431	847
46.4	Total Hepta-Furans			0.8734	10.003	37.83			477		0.588	477
46.5	PPM1											
46.6	PPM2											
46.7	PPM3											
46.8	PPM4											

1	2	3	4	5	6	7	8	9	10	11	12	13
1	Total Tetra-Furans	20.33	9.891e2	1.588e3	0.81	YES	0.58158	0.00000				
2	Total Tetra-Furans	20.87	4.303e3	5.388e3	0.80	NO	2.5782	2.5782				
3	Total Tetra-Furans	21.47	1.815e4	2.385e4	0.78	NO	11.172	11.172				
4	Total Tetra-Furans	22.04	1.873e4	2.591e4	0.78	NO	12.132	12.132				
5	Total Tetra-Furans	22.44	1.011e5	1.328e5	0.78	NO	62.202	62.202				



RT	Area	Height	Width	Area%	Height%	Width%
25.17	1708.18	17812	25.17	0.0003	0.0003	0.0003
25.38	4294.02	68507	25.38	0.0003	0.0003	0.0003
25.98	19069.77	259335	25.98	0.0003	0.0003	0.0003
26.21	3977.51	57390	26.21	0.0003	0.0003	0.0003
27.04	1280.83	19837	27.04	0.0003	0.0003	0.0003

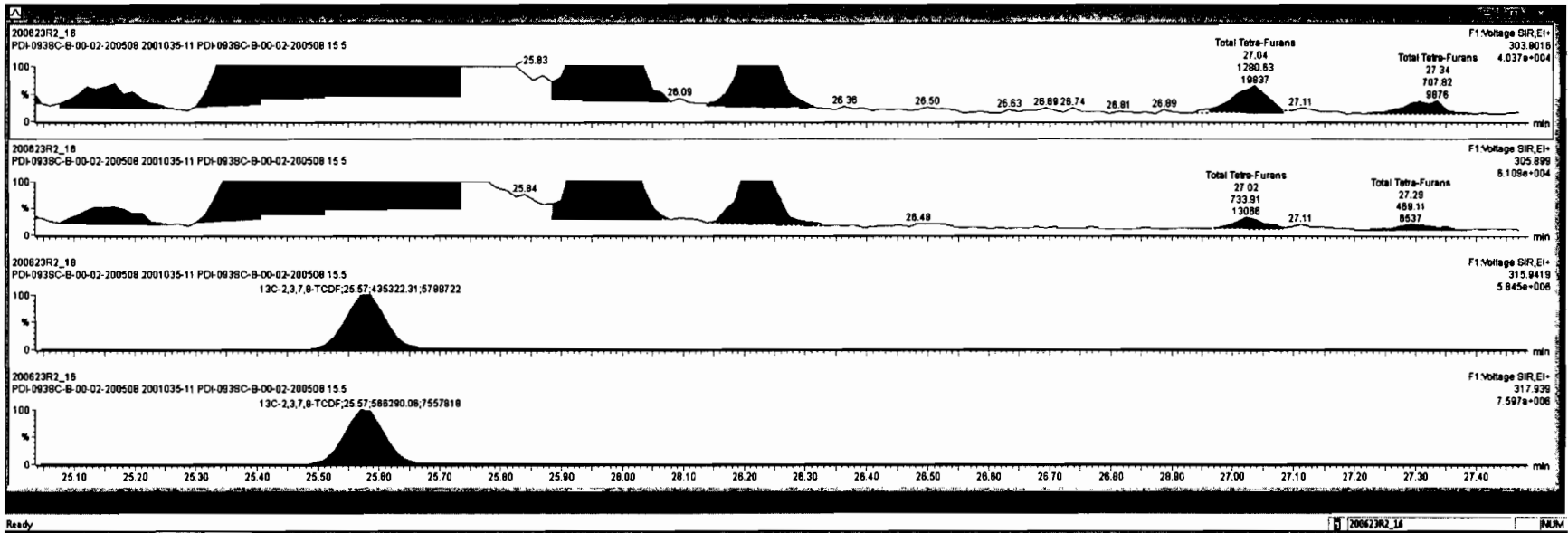
RT	Area	Height	Width	Area%	Height%	Width%
20.33	9.891e2	1.588e3	0.81	YES	0.59196	0.00000
20.87	4.305e3	5.369e3	0.80	NO	2.5762	2.5762
21.47	1.819e4	2.385e4	0.78	NO	11.172	11.172
22.04	1.873e4	2.591e4	0.78	NO	12.132	12.132
22.44	1.011e5	1.329e5	0.78	NO	62.202	62.202





44	1st Func. Penta-Furans			0.8825	10.003	27.56			31.2		0.0303	31.2
45	Total Penta-Furans			0.8825	10.003	28.27			876		0.386	862
46	Total Hexa-Furans			0.9341	10.003	33.56			847		0.431	847
47	Total Hepta-Furans			0.8734	10.003	37.83			477		0.588	477
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											

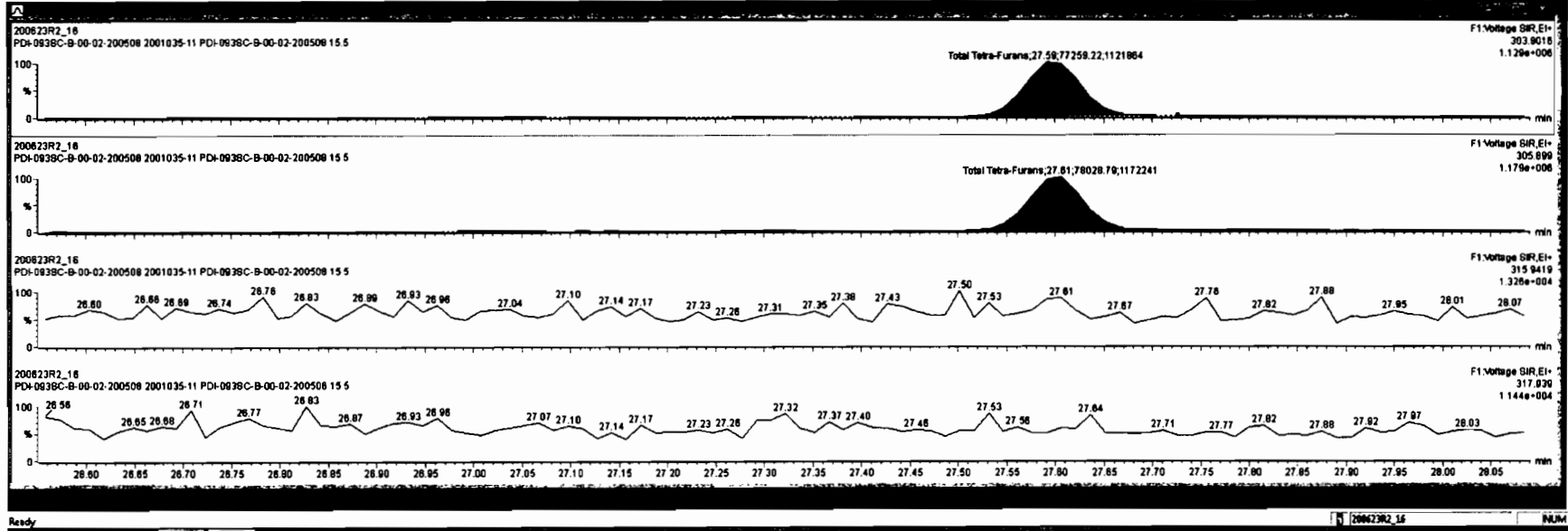
#	Name	RT	Int Area	Peak Area	SN	Ident	QC	Amount
1	Total Tetra-Furans	20.33	9.891e2	1.589e3	0.81	YES	0.99198	0.00000
2	Total Tetra-Furans	20.87	4.303e3	5.399e3	0.80	NO	2.5762	2.5762
3	Total Tetra-Furans	21.47	1.818e4	2.395e4	0.78	NO	11.172	11.172
4	Total Tetra-Furans	22.04	1.973e4	2.581e4	0.76	NO	12.132	12.132
5	Total Tetra-Furans	22.44	1.011e5	1.329e5	0.78	NO	62.202	62.202





44	1st Func. Para-Furans			0.8825	10.000	27.56		31.2	0.0303	31.2
45	Total Para-Furans			0.8825	10.000	28.27		876	0.368	882
46	Total Hexa-Furans			0.8341	10.000	33.96		847	0.431	847
47	Total Hepta-Furans			0.8734	10.000	37.83		477	0.588	477
48	PFK1									
49	PFK2									
50	PFK3									

PA	Total Para-Furans	20.33	9.891e2	1.589e3	0.81	YES	0.99198	0.00000
2	Total Tetra-Furans	20.87	4.303e3	5.389e3	0.80	NO	2.5782	2.5782
3	Total Tetra-Furans	21.47	1.818e4	2.365e4	0.78	NO	11.172	11.172
4	Total Tetra-Furans	22.04	1.973e4	2.591e4	0.78	NO	12.132	12.132
5	Total Tetra-Furans	22.44	1.011e5	1.328e5	0.78	NO	82.202	82.202



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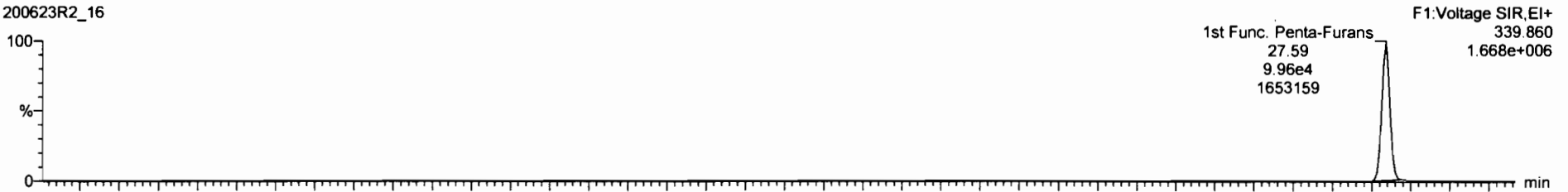
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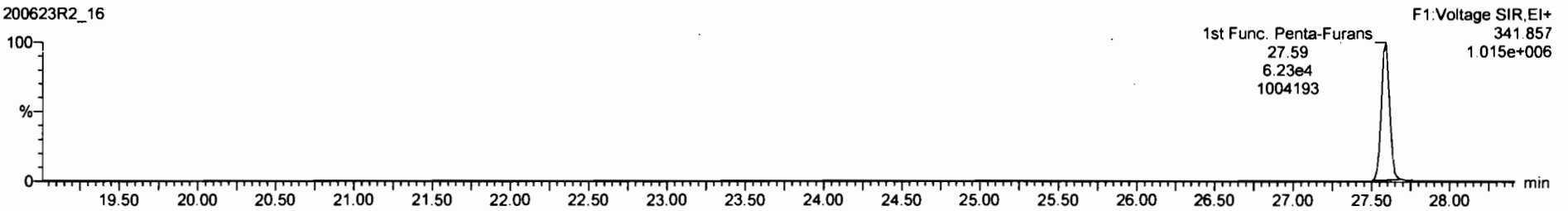
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1st Func. Penta-Furans

200623R2_16

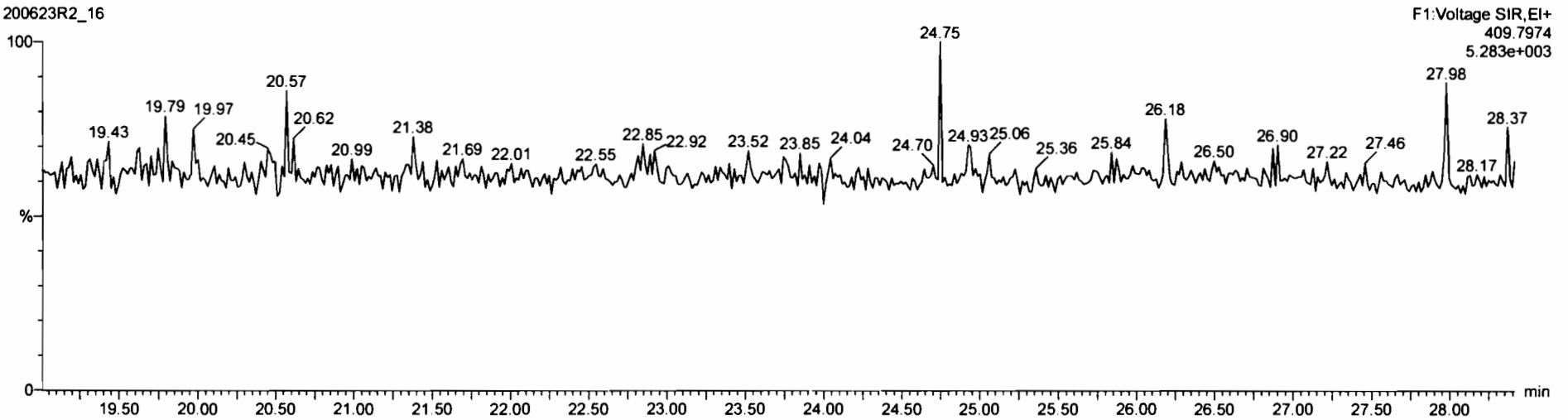


200623R2_16



DPE6

200623R2_16



Dataset: Untitled

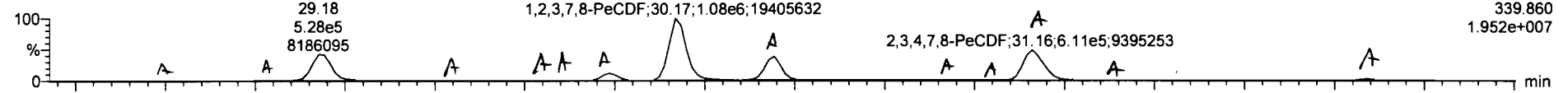
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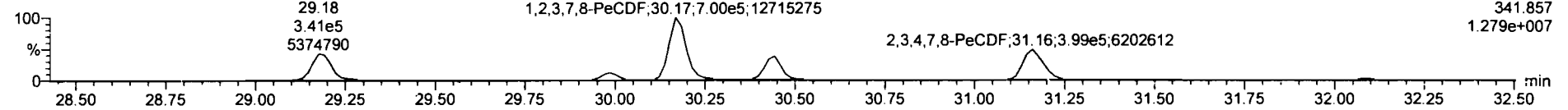
Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

1,2,3,7,8-PeCDF

200623R2_16

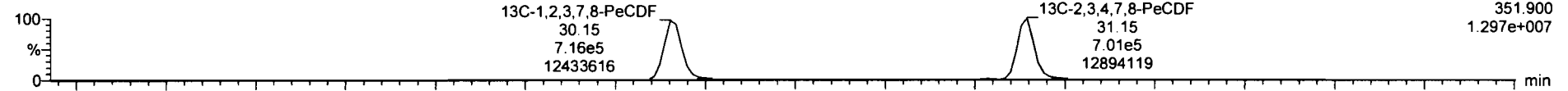


200623R2_16

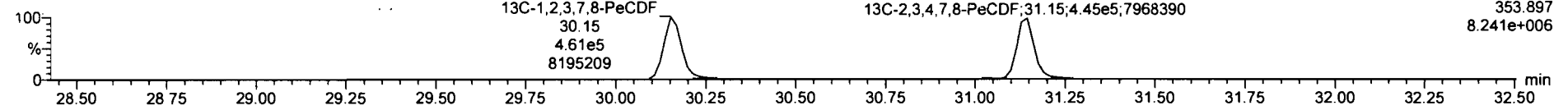


13C-1,2,3,7,8-PeCDF

200623R2_16

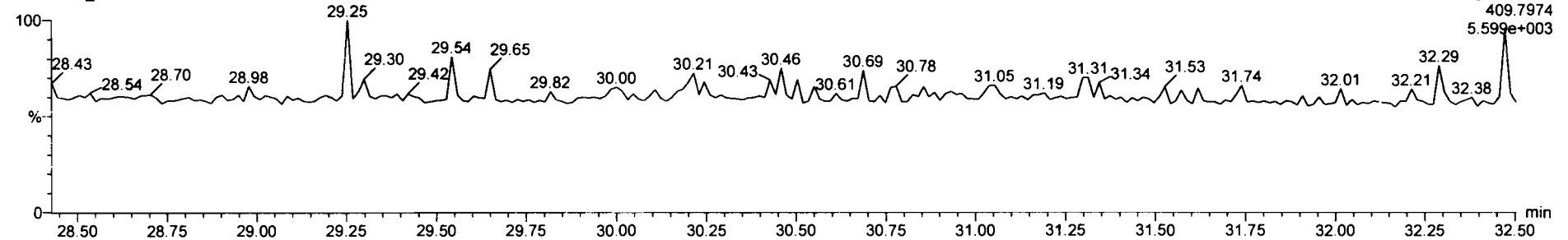


200623R2_16



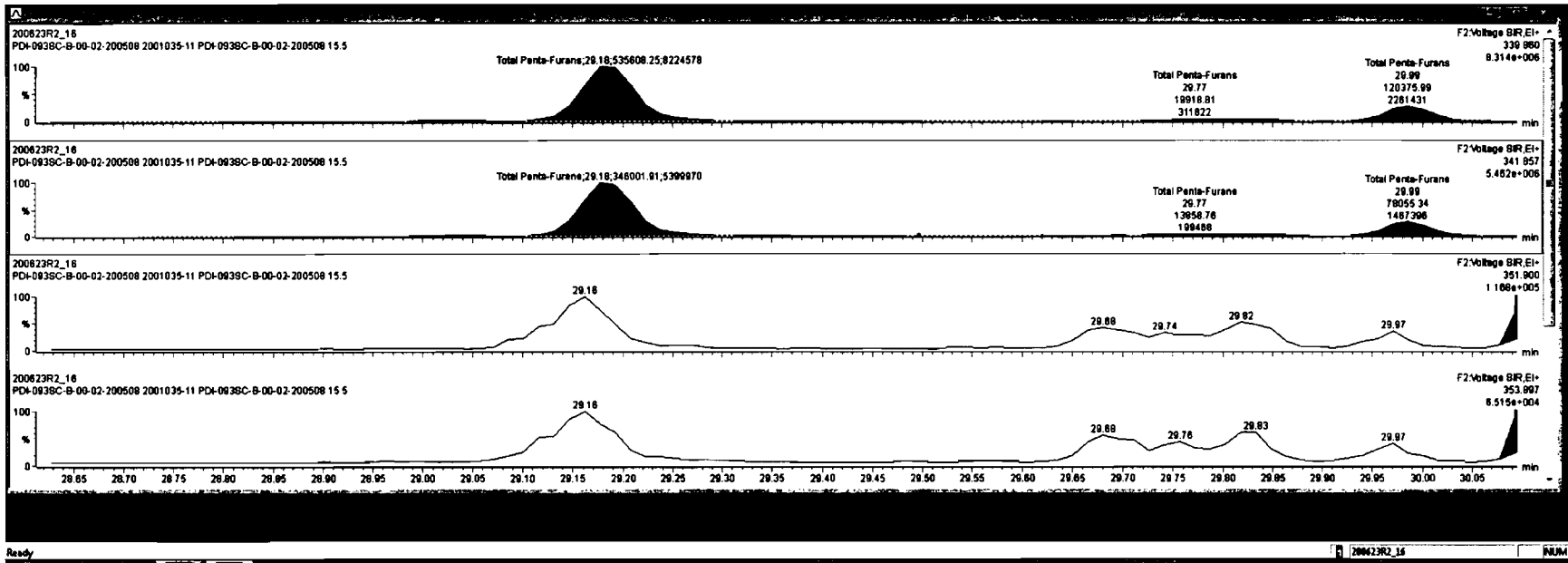
DPE2

200623R2_16



Peak	Name	Area	%Area	Height	Width	Retention	Integration	Integration	Integration
65	Total Tetra-Furans	0.7510	10.003	23.61		764	0.240	801	
66	1st Func. Penta-Furans	0.8825	10.003	27.58		31.2	0.0303	31.2	
67	Total Hexa-Furans	0.8341	10.003	33.56		647	0.431	647	
68	Total Hepta-Furans	0.8734	10.003	37.83		477	0.598	477	
69	PPM1								
70	PPM2								
71	PPM3								
72	None								

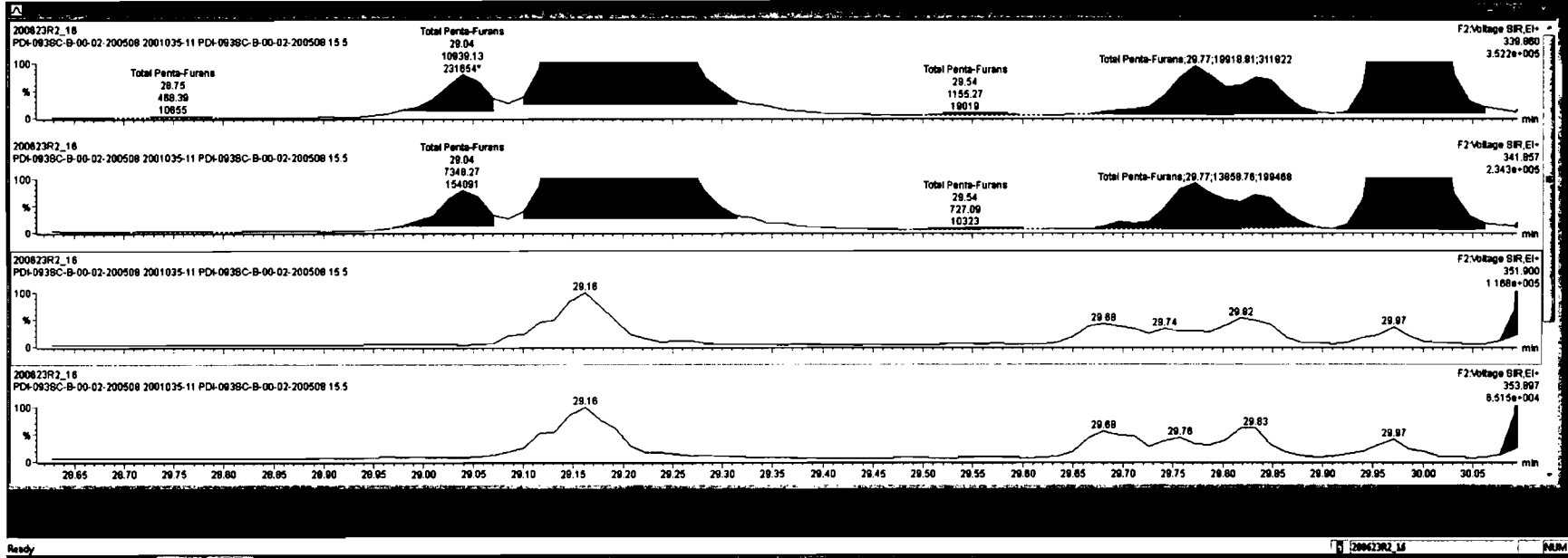
Sample	Area	Height	Width	Retention	Integration	Integration	Integration
9	Total Penta-Furans	28.75	4.884e2	2.940e2	1.58	NO	0.14695
5	Total Penta-Furans	28.04	1.053e4	7.346e3	1.43	NO	3.4485
5	Total Penta-Furans	28.18	5.306e5	3.480e5	1.55	NO	189.93





Peak	Name	Area	Height	Width	Retention	Abundance	Integration
43	Total Tetra-Furans	0.7510	10.003	23.81	784	0.248	801
44	1st Func. Penta-Furans	0.8825	10.003	27.58	312	0.0303	312
45	Total Hexa-Furans	0.9341	10.003	33.58	847	0.431	847
47	Total Hepta-Furans	0.8734	10.003	37.83	477	0.598	477
48	PPK1						
49	PPK2						
50	PPK3						

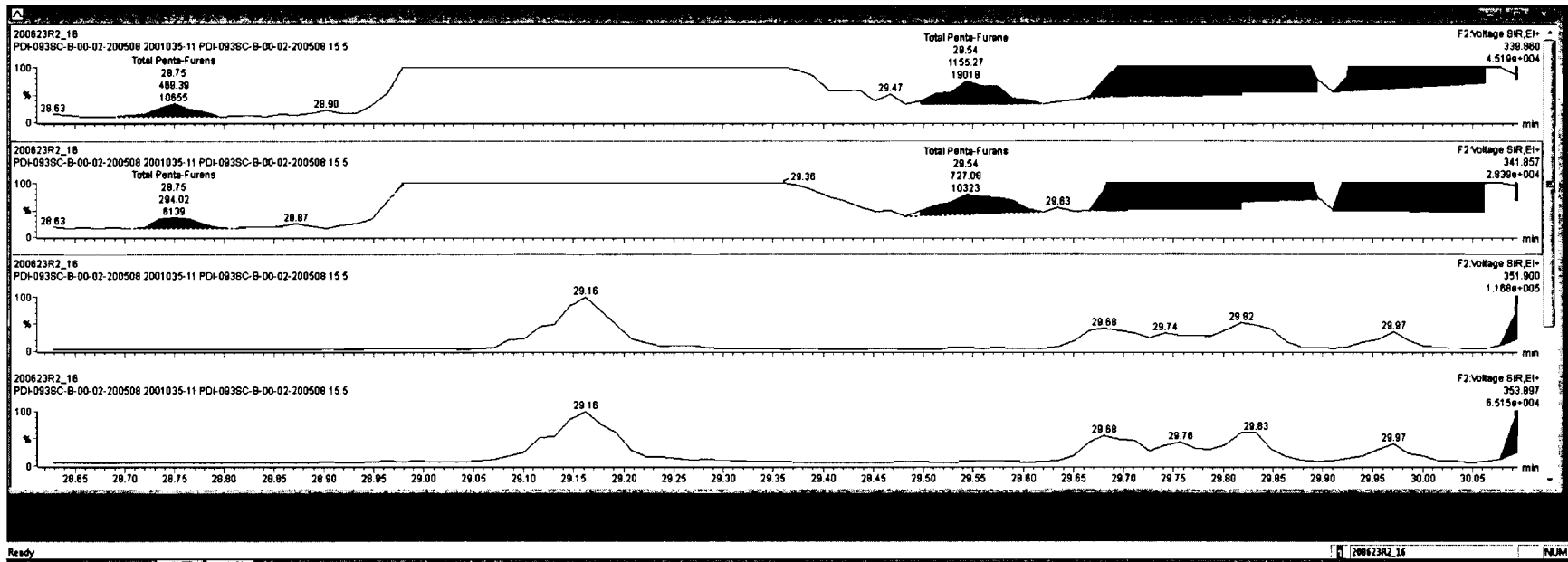
Peak	Name	Area	Height	Width	Retention	Abundance	Integration
1	Total Penta-Furans	28.75	4.884e2	2.840e2	1.58	NO	0.14695
2	Total Penta-Furans	29.04	1.053e4	7.348e3	1.43	NO	3.4485
3	Total Penta-Furans	28.18	5.388e5	3.480e5	1.55	NO	188.93





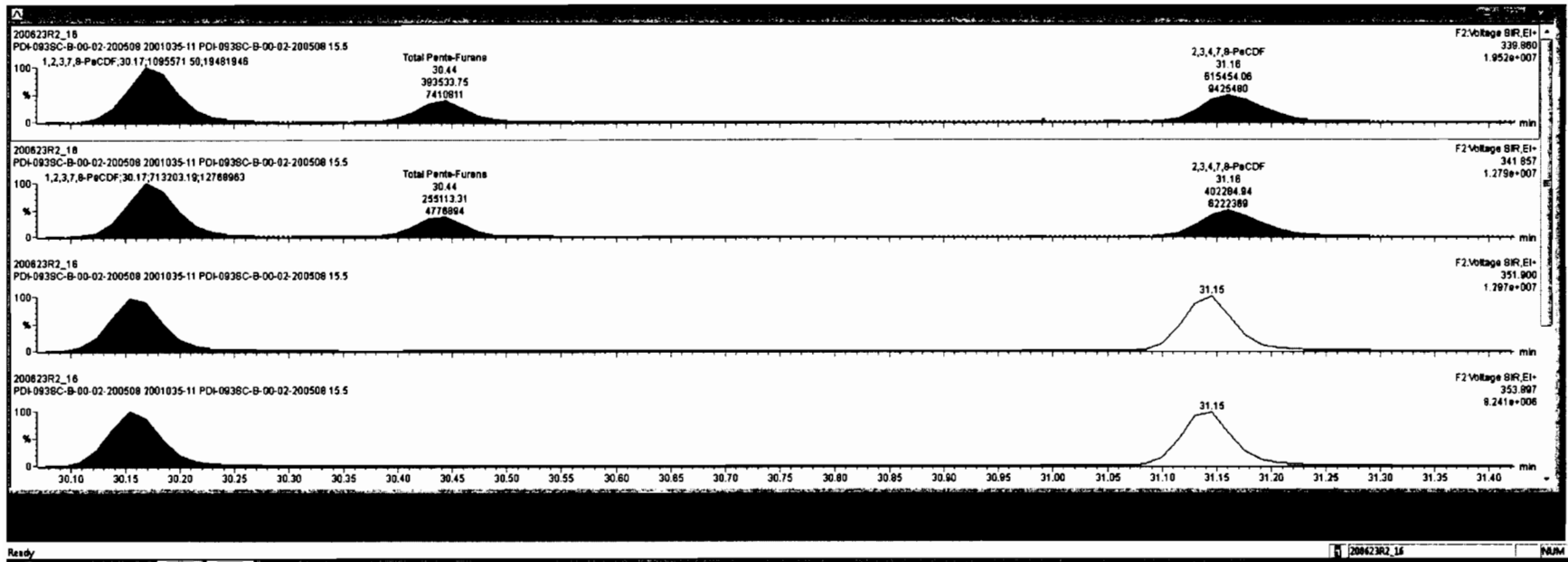
Sample	Comp	Yield	Area	Height	Area%	Height%	Area	Height
43	Total Tetra-Furans		0.7510	10.003	23.81		764	0.248
44	1st Func. Penta-Furans		0.8925	10.003	27.58		31.2	0.0303
45	Total Hexa-Furans		0.8341	10.003	33.56		847	0.431
46	Total Hepta-Furans		0.8734	10.003	37.83		477	0.586
47	PPH1							
48	PPH2							
49	PPH3							
50	Hexa							

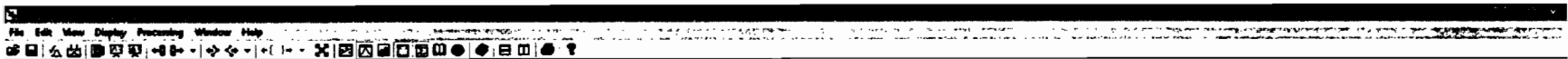
Sample	RT	int Resp	int Resp	Area	Area	Area%	Area%
1	Total Penta-Furans	28.75	4.864e2	2.940e2	1.58	NO	0.14695
2	Total Penta-Furans	29.04	1.053e4	7.348e3	1.43	NO	3.4485
3	Total Penta-Furans	29.16	5.356e5	3.480e5	1.55	NO	189.93



Area	Area%	Height	Height%	Retention	Width	Volume	Volume%	Height	Volume%	
43	Total Tetra-Furans			0.7510	10.003	23.81		784	0.249	801
44	1st Func. Penta-Furans			0.8625	10.003	27.58		31.2	0.0303	31.2
45	Total Hexa-Furans			0.8341	10.003	33.56		847	0.431	847
47	Total Hepta-Furans			0.8734	10.003	37.83		477	0.586	477
48	PFK1									
49	PFK2									
50	PFK3									
51	Hexa									

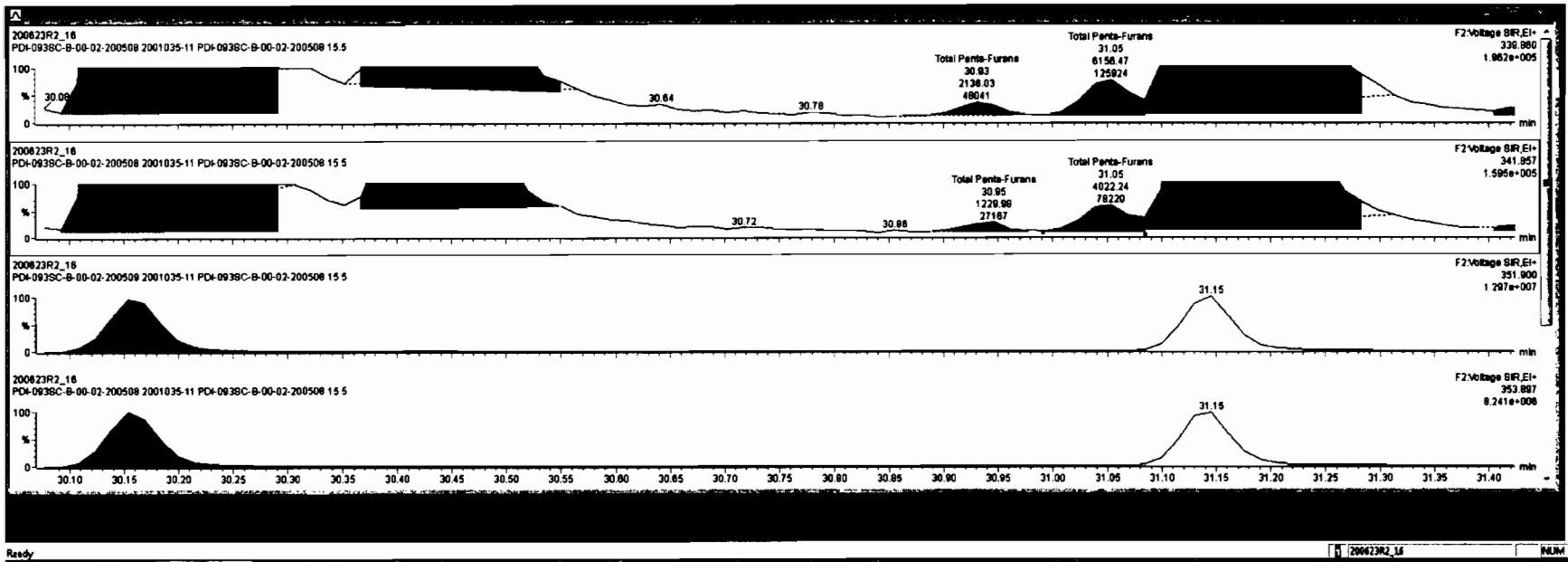
Area	Area%	Height	Height%	Retention	Width	Volume	Volume%	Height	Volume%
1	Total Penta-Furans	28.75	4.894e2	2.940e2	1.58	NO	0.14695	0.14695	
2	Total Penta-Furans	28.04	1.053e4	7.346e3	1.43	NO	3.4485	3.4485	
3	Total Penta-Furans	28.18	5.356e5	3.480e5	1.95	NO	189.93	189.93	





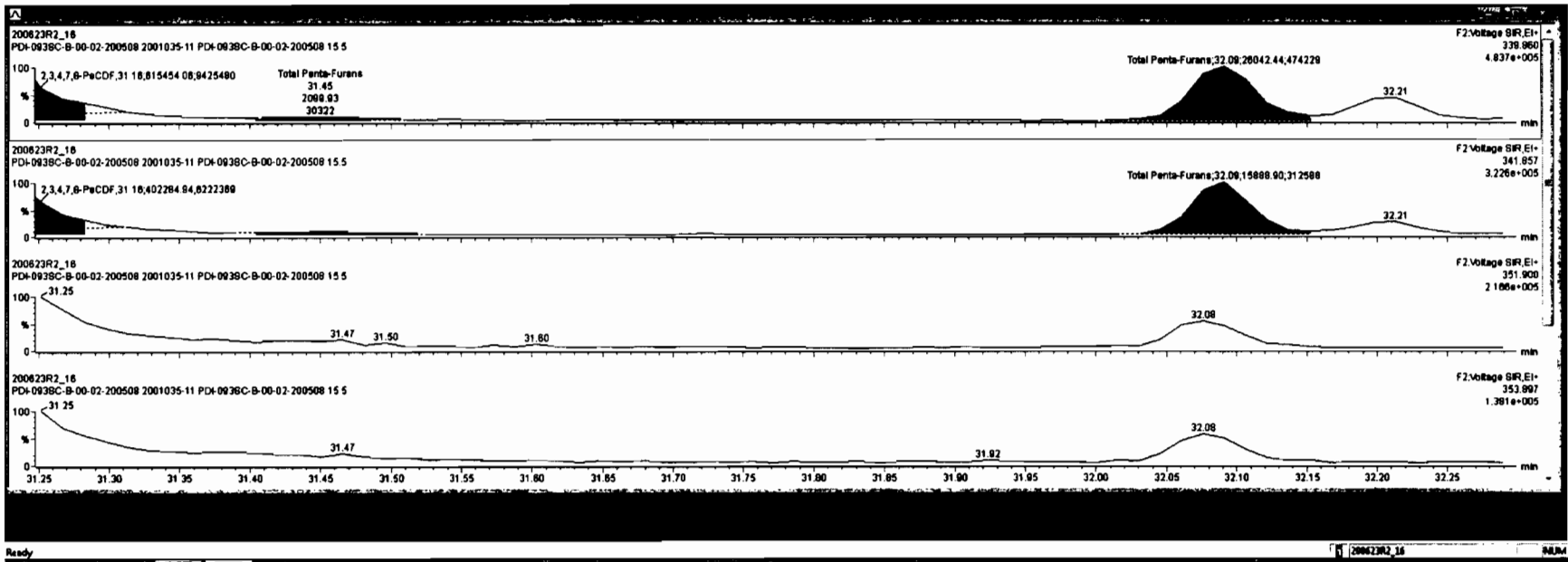
Item	Name	Response	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
88	Total Tetra-Furans		0.7510	10.003	23.81				784			0.248		801
89	1st Func. Penta-Furans		0.8825	10.003	27.58				31.2			0.0303		31.2
90	Total Hexa-Furans		0.9341	10.003	33.58				847			0.431		847
91	Total Hepta-Furans		0.8734	10.003	37.83				477			0.588		477
92	PFK1													
93	PFK2													
94	PFK3													

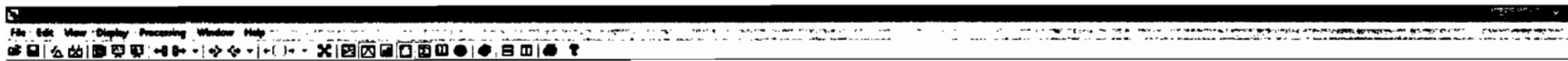
Item	Name	RT	Int Resp	Int Resp	Area	Area	Area	Area	Area	Area
13	2,3,4,7,8-PeCDF	31.18	8.156e5	4.022e5	1.53	NO	189.85	189.85		189.85
13	Total Penta-Furans	31.45	2.100e3	1.308e3	1.81	NO	0.85848	0.85848		0.85848
14	Total Penta-Furans	32.09	2.804e4	1.588e4	1.84	NO	8.0821	8.0821		8.0821



Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration	Integration
63	Total Tetra-Furans	0.7510	10.003	23.81	784	0.246	601		
64	1st Func. Penta-Furans	0.8825	10.003	27.58	312	0.0303	312		
65	Total Hexa-Furans	0.8341	10.003	33.58	847	0.431	847		
66	Total Hepta-Furans	0.8734	10.003	37.83	477	0.588	477		
67	PPH1								
68	PPH2								
69	PPH3								
70	Hexa								

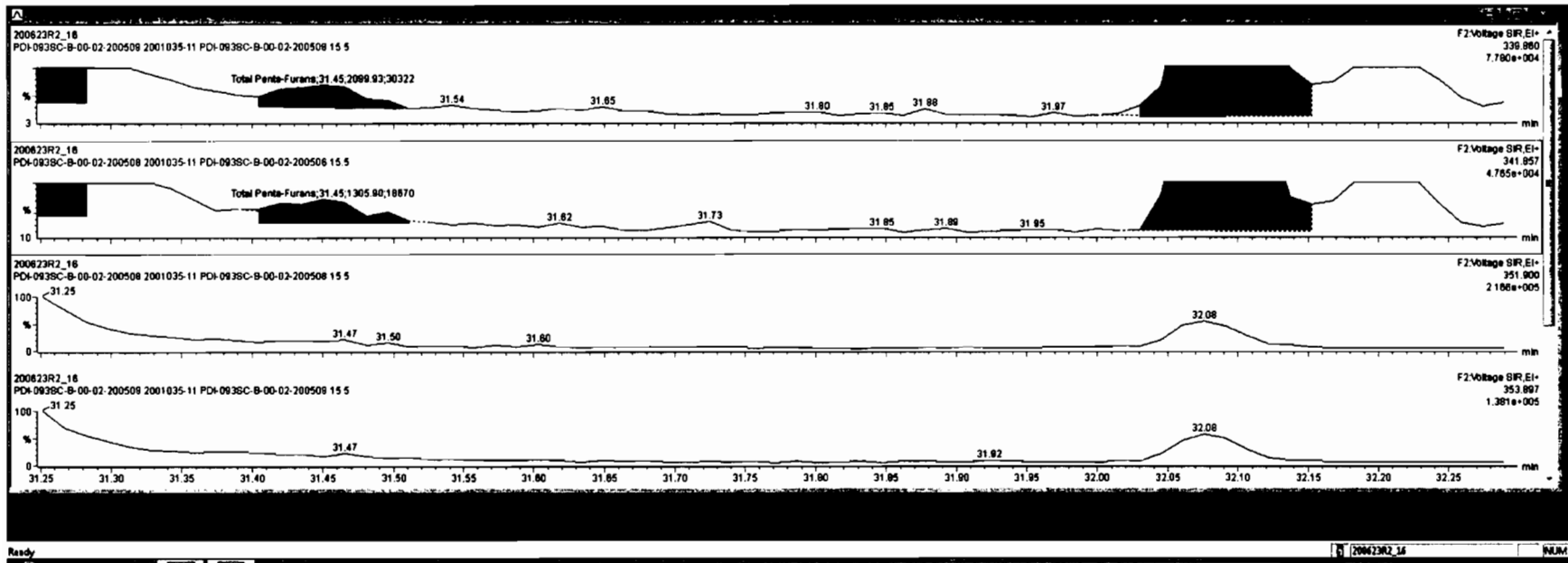
Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration	Integration
13	2,3,4,7,8-PeCDF	31.18	6.155e5	4.023e5	1.53	NO	188.85	188.85	
13	Total Penta-Furans	31.45	2.100e3	1.308e3	1.81	NO	0.85848	0.85848	
14	Total Penta-Furans	32.09	2.804e4	1.558e4	1.84	NO	8.0821	8.0821	





RTU	RTU	RTU	RTU	RTU	RTU	RTU	RTU	RTU	RTU	RTU	RTU	
48	Total Tetra-Furans			0.7510	10.003	23.81			784		0.240	801
49	1st Func. Penta-Furans			0.8625	10.003	27.58			31.2		0.0303	31.2
49	Total Hexa-Furans			0.8241	10.003	33.58			847		0.431	847
49	Total Hepta-Furans			0.8734	10.003	37.83			477		0.586	477
49	PFN1											
49	PFN2											
49	PFN3											

RTU	RTU	RTU	RTU	RTU	RTU	RTU	RTU	RTU
43	2,3,4,7,8-PeCDF	31.16	6.155e5	4.022e5	1.53	NO	188.85	188.85
13	Total Penta-Furans	31.45	2.100e3	1.306e3	1.81	NO	0.85546	0.85546
14	Total Penta-Furans	32.08	2.804e4	1.589e4	1.84	NO	0.0821	0.0821

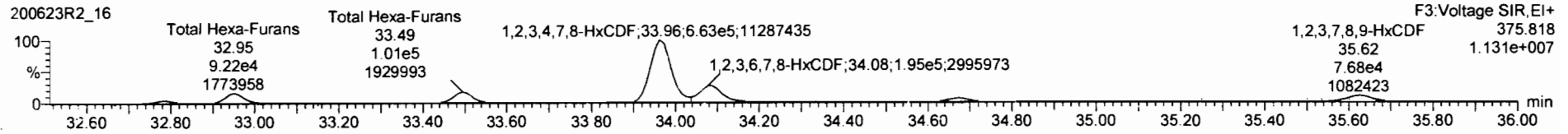
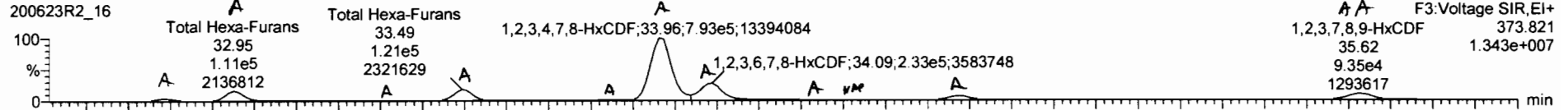


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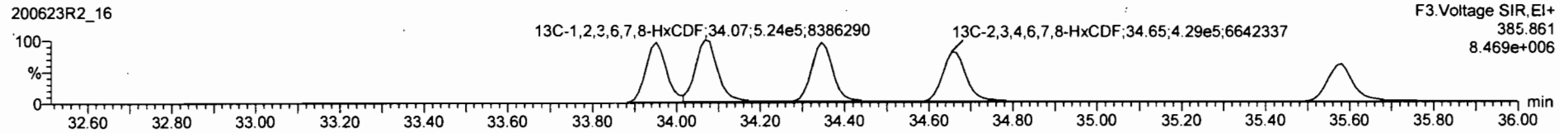
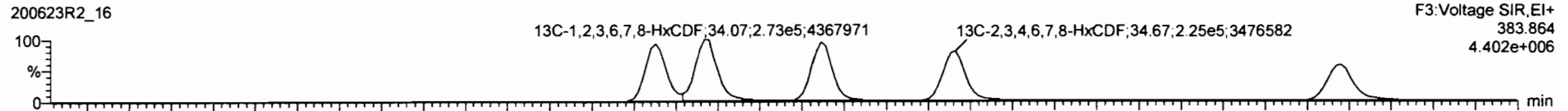
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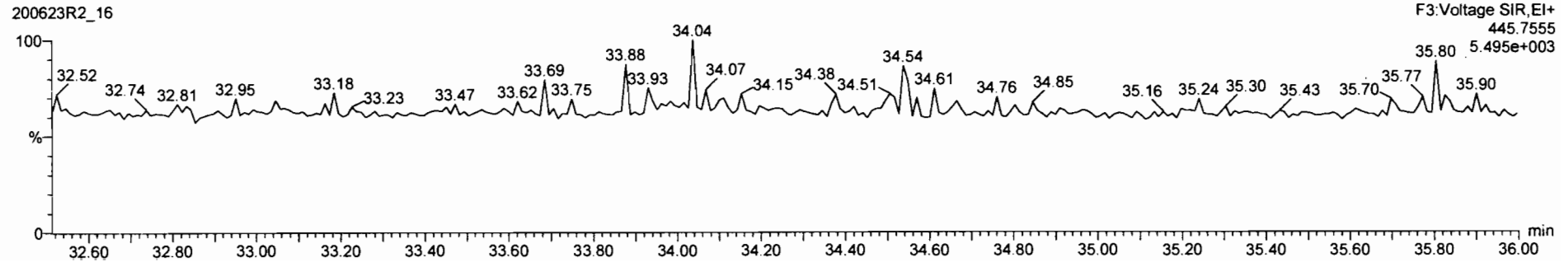
1,2,3,4,7,8-HxCDF



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



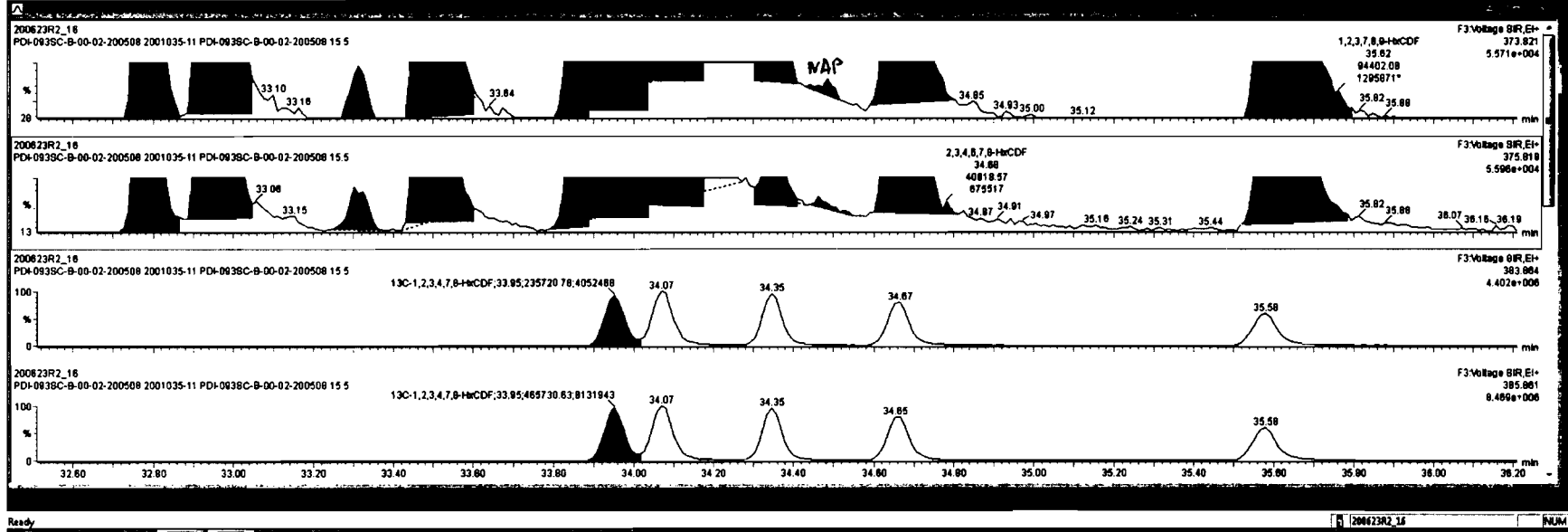
DPE3

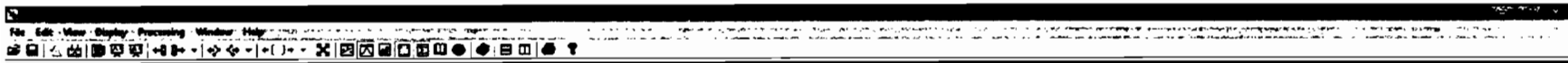




Peak	Area	Height	Width	Retention	Abundance	Mass	Label
43	0.7510	10.003	23.81	784	0.248	801	
44	0.8625	10.003	27.58	31.2	0.0303	31.2	
45	0.8625	10.003	28.27	862	0.368	862	
46							
47	0.8734	10.003	37.83	477	0.596	477	
48							
49							
50							
51							

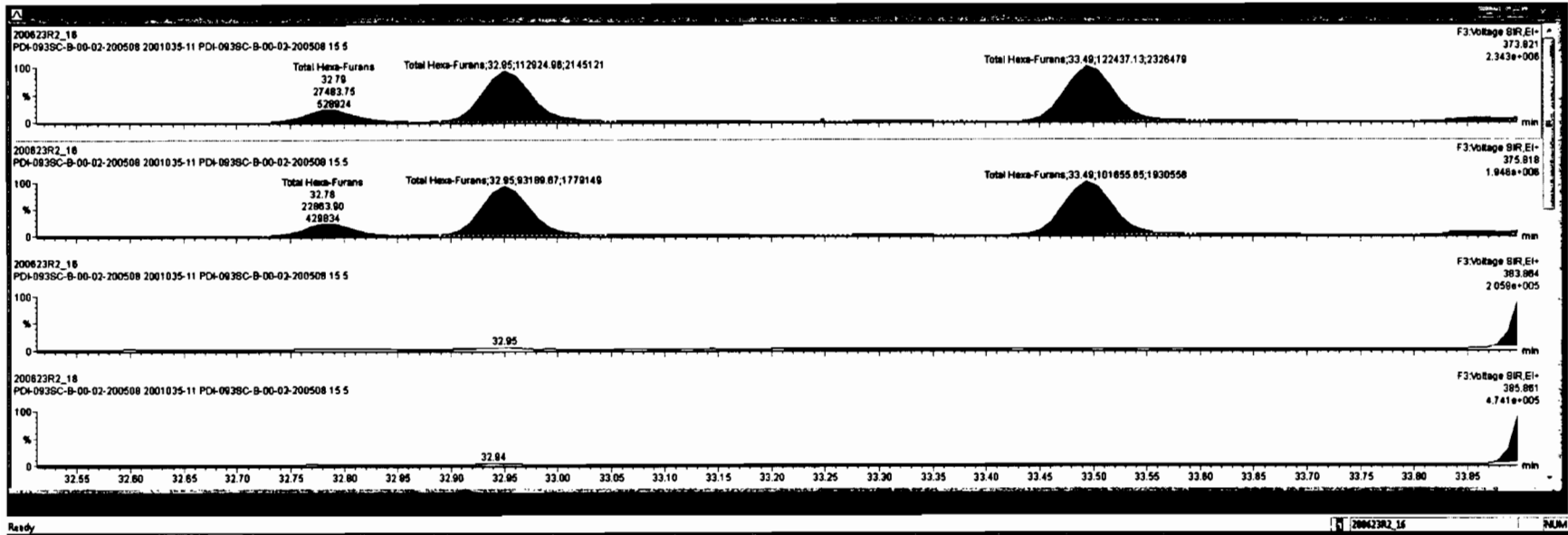
Peak	Area	Height	Width	Retention	Abundance	Mass	Label
1	32.79	2.748e4	2.205e4	1.20	NO	15.914	15.914
2	32.95	1.129e5	9.318e4	1.21	NO	85.151	85.151
3	33.31	2.375e3	2.089e3	1.13	NO	1.4141	1.4141
4	33.49	1.224e5	1.071e5	1.20	NO	70.833	70.833
5	33.88	7.046e3	5.814e3	1.21	NO	4.0848	4.0848





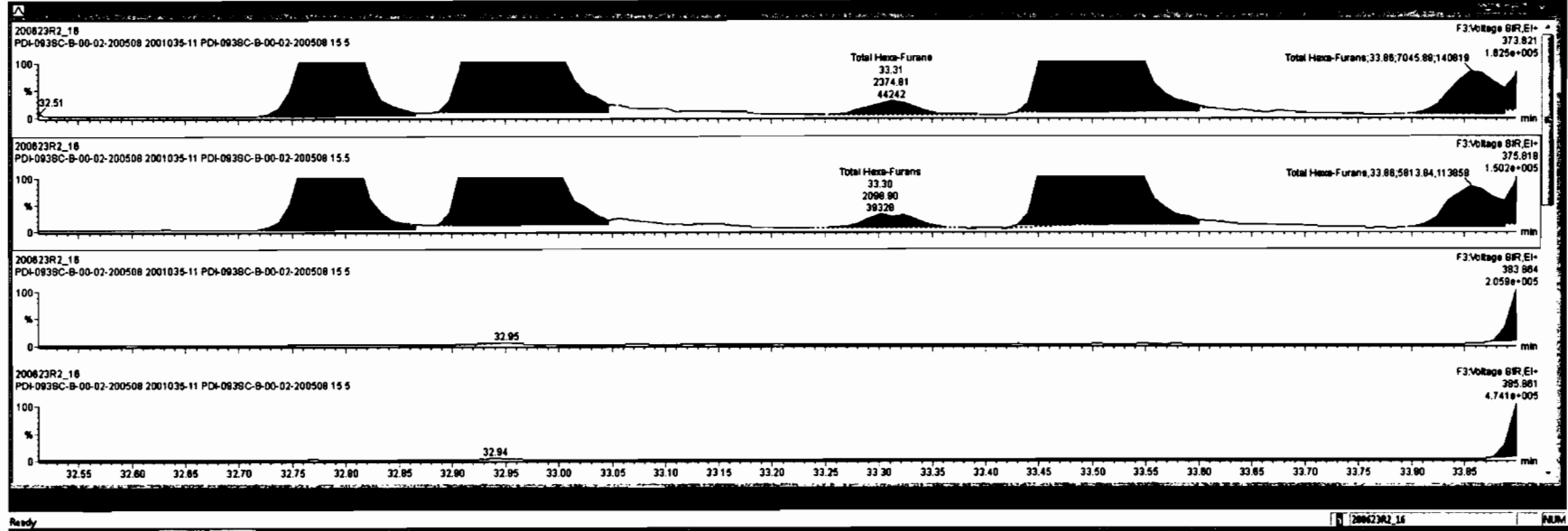
47	Total Hexa-Furans			0.8734	10.003	37.83			477	0.596	477
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DFC1										

1	2	3	4	5	6	7	8	9	10	11	12
1	Total Hexa-Furans	32.78	2.748e4	2.280e4	1.20	NO	15.914	15.914			
2	Total Hexa-Furans	32.85	1.129e5	9.319e4	1.21	NO	85.151	85.151			
3	Total Hexa-Furans	33.31	2.375e3	2.088e3	1.13	NO	1.4141	1.4141			
4	Total Hexa-Furans	33.49	1.224e3	1.017e5	1.20	NO	70.833	70.833			
5	Total Hexa-Furans	33.86	7.048e3	5.814e3	1.21	NO	4.0848	4.0848			



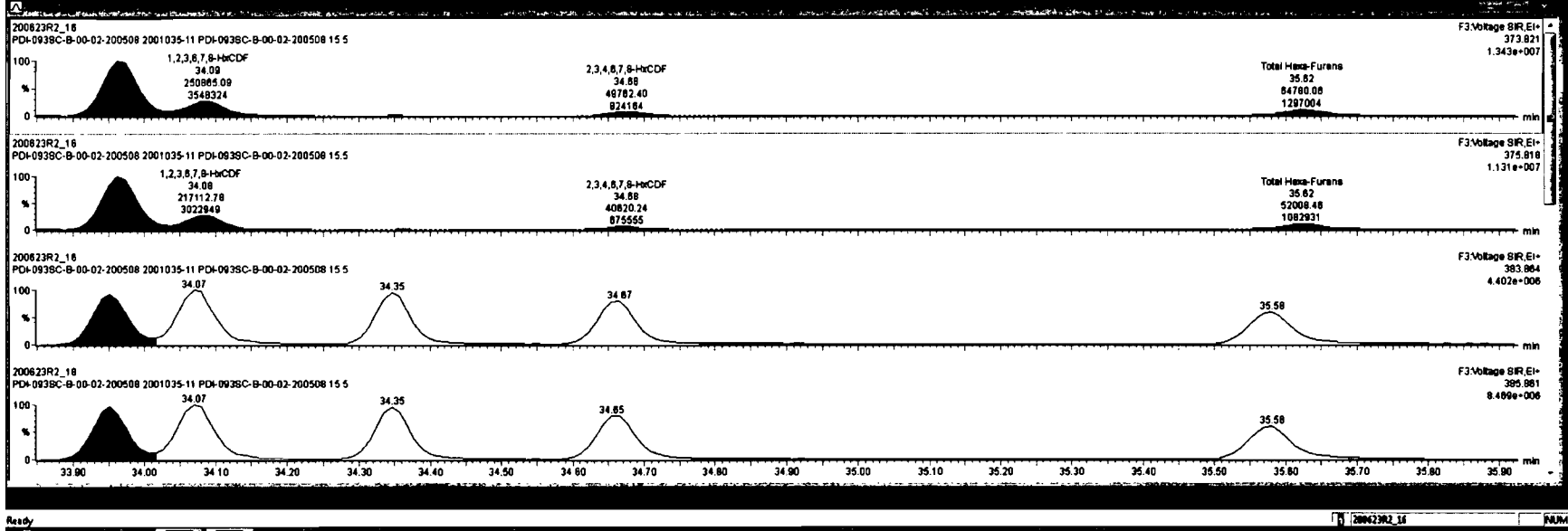
Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration	Integration
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2	32.85							
3	33.31							
4	33.48							
5	33.85							
6	33.95							
7	33.94							
8	33.94							
9	33.94							
10	33.94							
11	33.94							
12	33.94							
13	33.94							
14	33.94							
15	33.94							
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73	33.94							
74	33.94							
75	33.94							
76	33.94							
77	33.94							
78	33.94							
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91	33.94							
92	33.94							
93	33.94							
94	33.94							
95	33.94							
96	33.94							
97	33.94							
98	33.94							
99	33.94							
100	33.94							

Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration	Integration
1	32.78	2.748e4	2.288e4	1.20	NO	15.914	15.914	
2	32.85	1.128e5	9.319e4	1.21	NO	85.191	85.191	
3	33.31	2.375e3	2.088e3	1.13	NO	1.4141	1.4141	
4	33.48	1.224e5	1.017e5	1.20	NO	70.833	70.833	
5	33.85	7.048e3	5.814e3	1.21	NO	4.0648	4.0648	



Name	Area	Height	Width	Cent	Skew	Kurt	Int	Int	Int	
47	Total Hexa-Furans			0.8734	10.003	57.83		477	0.588	477
48	PFK1									
49	PFK2									
50	PFK3									
51	PFK4									
52	PFK5									
53	DPH1									
54	DPH2									

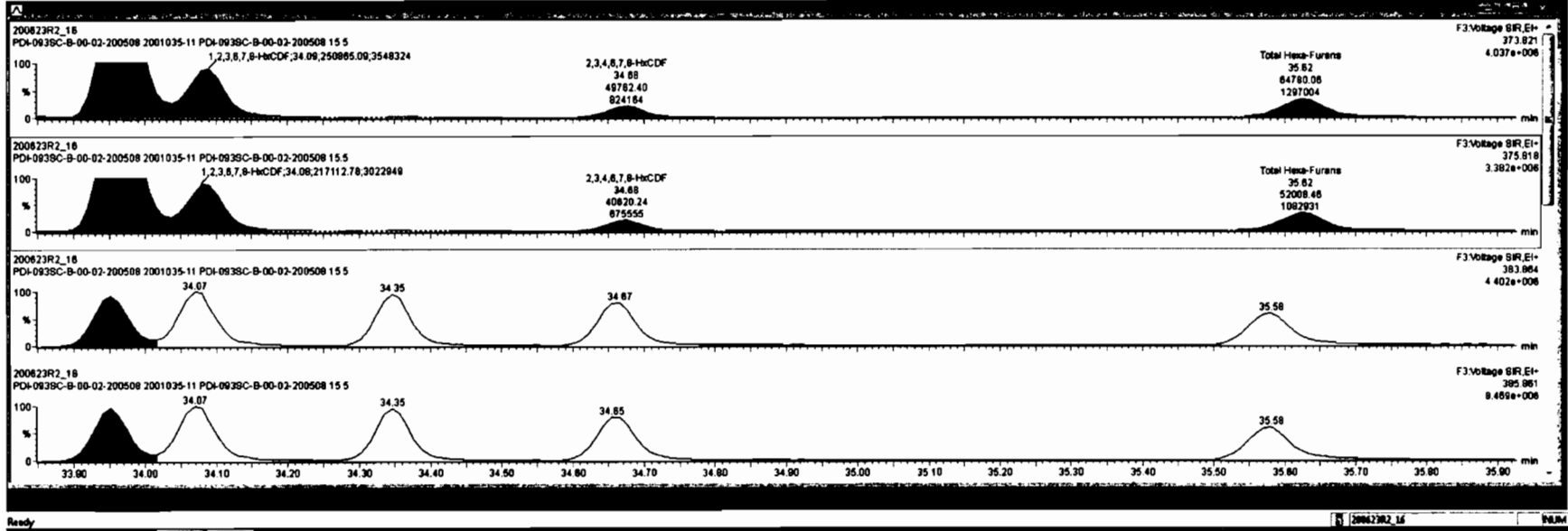
Name	Area	Height	Width	Cent	Skew	Kurt	Int	Int	Int
1	Total Hexa-Furans	32.79	2.746e4	2.289e4	1.20	NO	15.914	15.914	
2	Total Hexa-Furans	32.85	1.129e5	8.219e4	1.21	NO	85.151	85.151	
3	Total Hexa-Furans	33.31	2.375e3	2.089e3	1.13	NO	1.4141	1.4141	
4	Total Hexa-Furans	33.49	1.224e5	1.017e5	1.20	NO	70.833	70.833	
5	Total Hexa-Furans	33.86	7.046e3	5.814e3	1.21	NO	4.0848	4.0848	





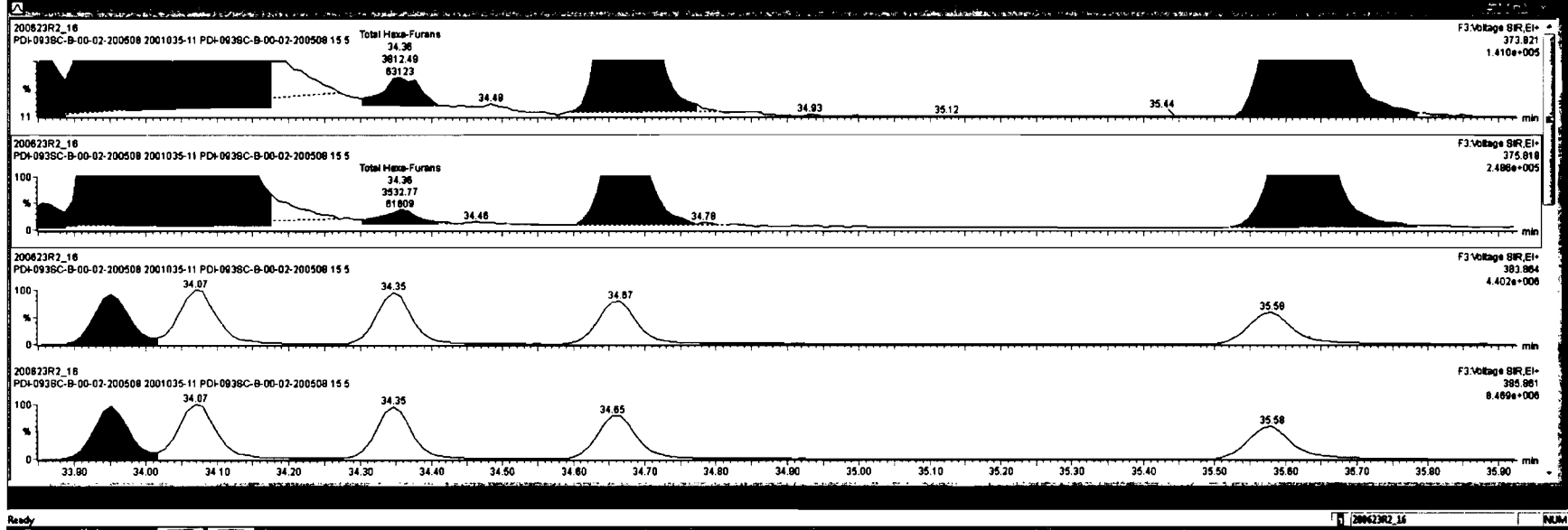
47	Total Hexa-Furans			0.8734	10.000	37.83			477	0.580	477
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										
52	PFK5										
53	DPF1										
54	DPF2										

Sample	PFK1	PFK2	PFK3	PFK4	PFK5	DPF1	DPF2	Conc
5	Total Hexa-Furans	32.79	2.740e4	2.280e4	1.20	NO	15.914	15.914
6	Total Hexa-Furans	32.95	1.129e3	8.319e4	1.21	NO	85.151	85.151
7	Total Hexa-Furans	33.31	2.375e3	2.088e3	1.13	NO	1.4141	1.4141
8	Total Hexa-Furans	33.49	1.224e3	1.017e5	1.20	NO	70.833	70.833
9	Total Hexa-Furans	33.86	7.046e3	5.814e3	1.21	NO	4.0648	4.0648



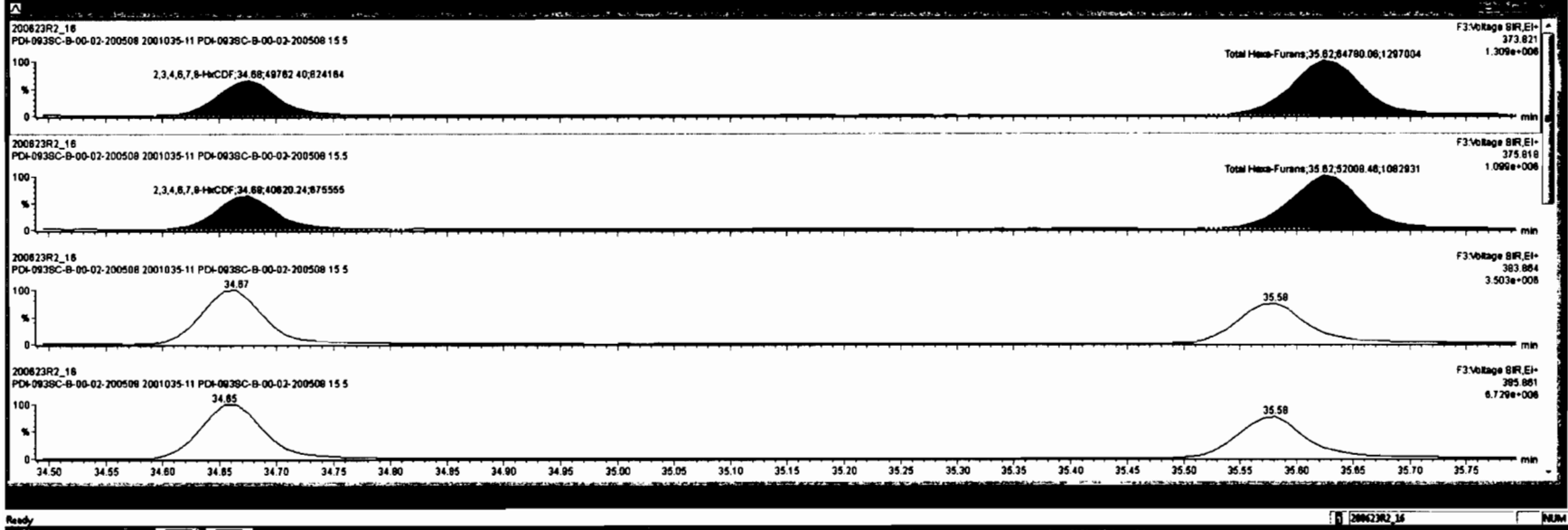
RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	
47	Total Hexa-Furans			0.8734	10.003	37.83		477	0.598	477
48	PFK1									
49	PFK2									
50	PFK3									
51	PFK4									
52	PFK5									
53	DPK1									
54	DPK2									

Name	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
1 Total Hexa-Furans	32.79	2.748e4	2.208e4	1.20	NO	15.914	15.914			
2 Total Hexa-Furans	32.95	1.129e5	9.318e4	1.21	NO	85.151	85.151			
3 Total Hexa-Furans	33.31	2.375e3	2.088e3	1.13	NO	1.4141	1.4141			
4 Total Hexa-Furans	33.49	1.224e5	1.017e5	1.20	NO	70.833	70.833			
5 Total Hexa-Furans	33.88	7.046e3	5.814e3	1.21	NO	4.0848	4.0848			



SP#	Total Hepta-Furans									
001			0.8734	10.003	37.83			477	0.588	477
002	PFK1									
003	PFK2									
004	PFK3									
005	PFK4									
006	PFK5									
007	DPK1									
008	DPK2									

SP#	Total Hexa-Furans	RT	Area	Height	W	Area%	Height%	Area%	Height%
1	Total Hexa-Furans	32.79	2.748e4	2.289e4	1.20	NO	15.914	15.914	
2	Total Hexa-Furans	32.95	1.129e5	9.319e4	1.21	NO	85.151	85.151	
3	Total Hexa-Furans	33.31	2.375e3	2.089e3	1.13	NO	1.4141	1.4141	
4	Total Hexa-Furans	33.49	1.224e5	1.017e5	1.20	NO	70.833	70.833	
5	Total Hexa-Furans	33.85	7.048e3	5.814e3	1.21	NO	4.0848	4.0848	



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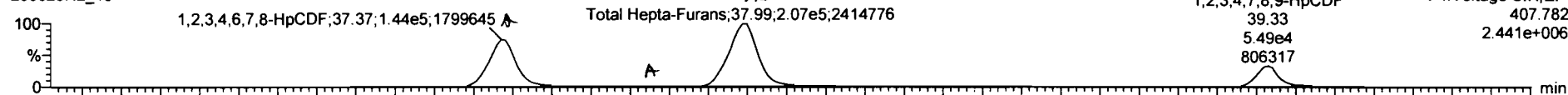
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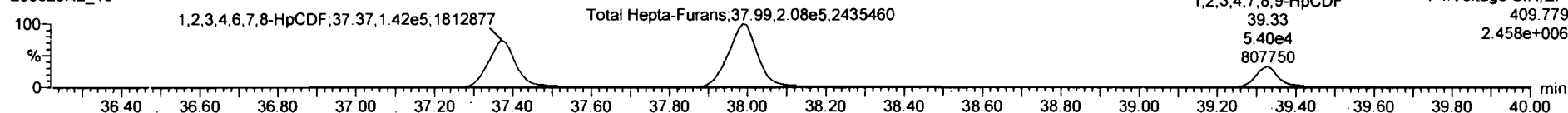
Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

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

200623R2_16



200623R2_16

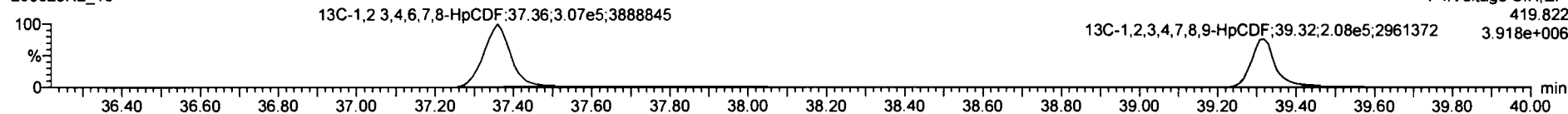


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200623R2_16

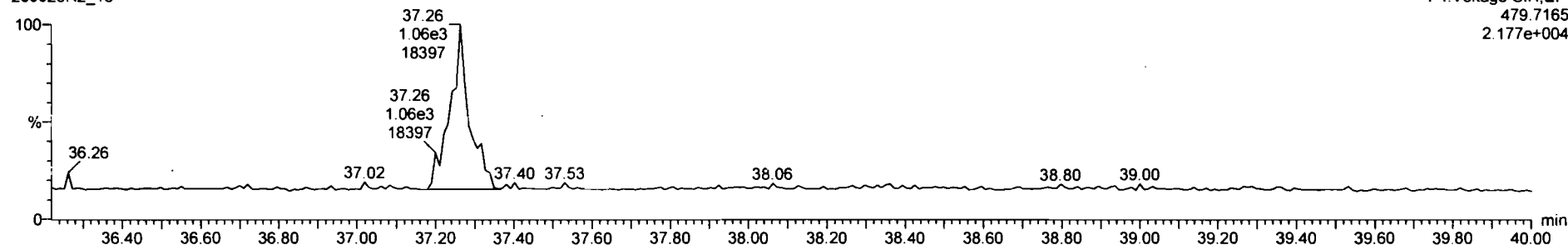


200623R2_16



DPE4

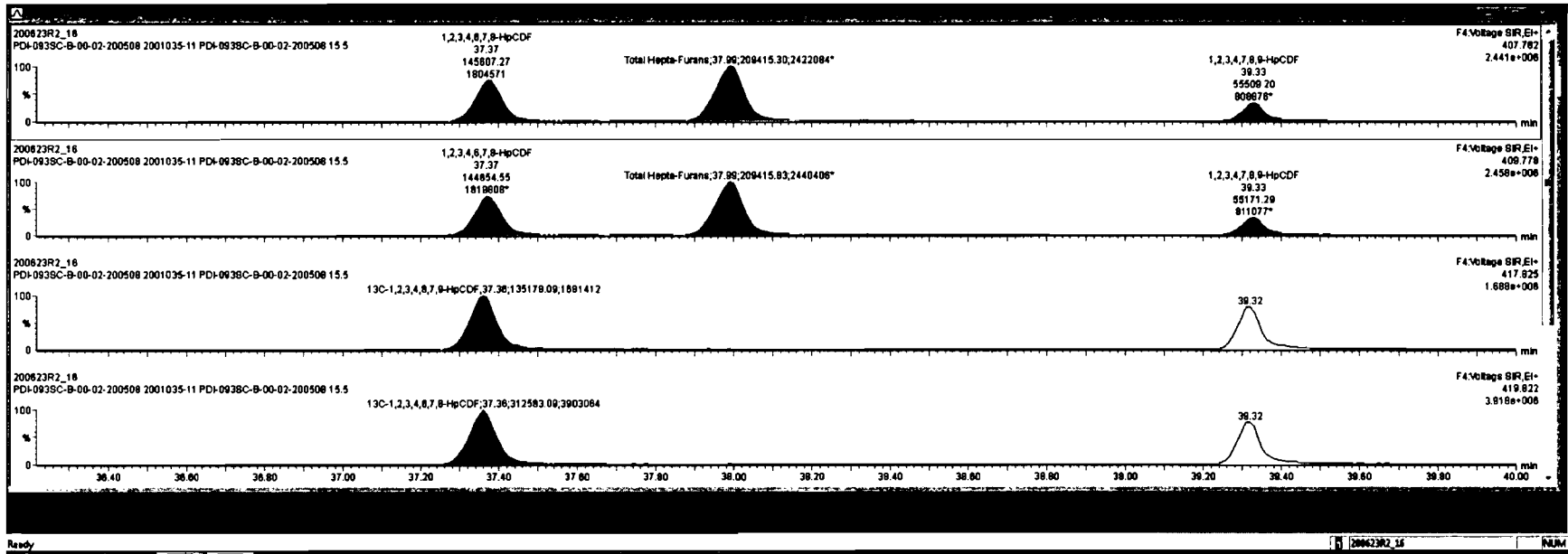
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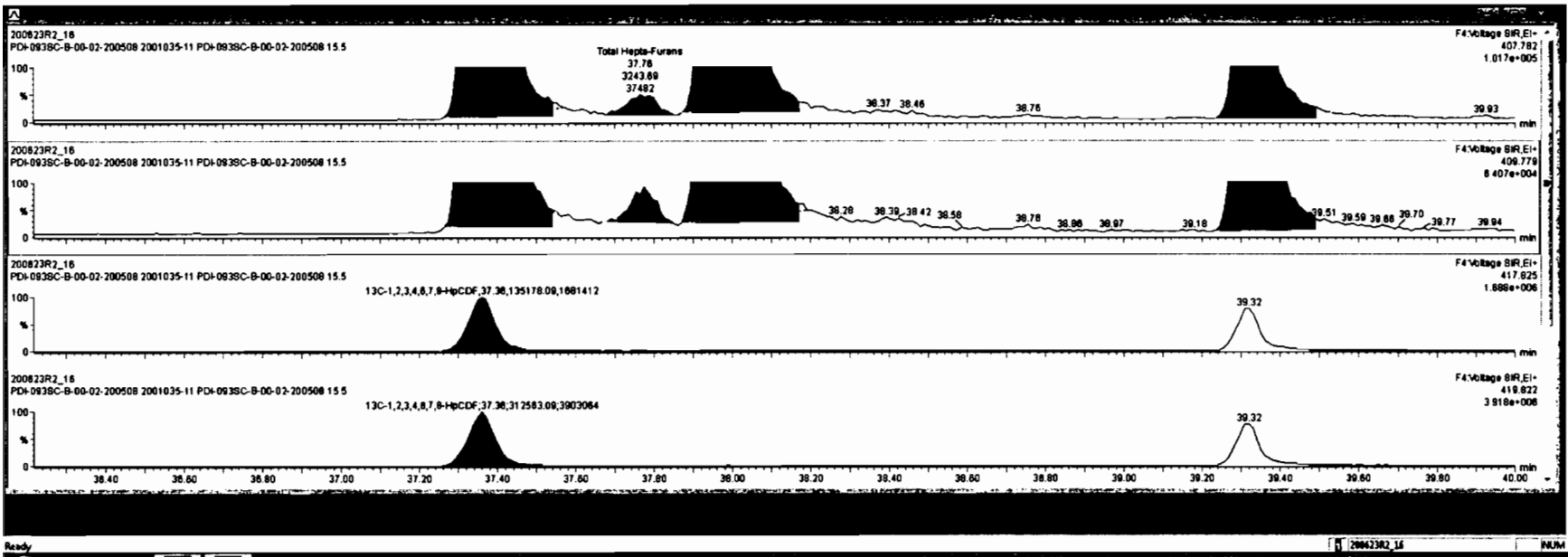
Peak	Retention Time	Area	Height	Width	Integration	Label
46	37.37	145807.27	1.442e5	1.01	NO	1,2,3,4,6,7,8-HpCDF
47	37.99	180457.1	2.906e3	1.00	NO	Total Hepta-Furans
48	39.33	55509.20	2.086e5	1.02	NO	1,2,3,4,7,8-HpCDF
49	39.33	80867.6				
50	39.33	55171.29				
51	39.33	81107.7				

Peak	Retention Time	Area	Height	Width	Integration	Label
1	37.37	1.458e5	1.442e5	1.01	NO	1,2,3,4,6,7,8-HpCDF
2	37.76	3.244e3	2.906e3	1.00	NO	Total Hepta-Furans
3	37.99	2.085e5	2.086e5	1.02	NO	Total Hepta-Furans
4	39.33	5.496e4	5.407e4	1.02	NO	1,2,3,4,7,8-HpCDF



Peak	Name	Area	Height	W	Ret	Height	Area	Height	Area	Height	Area	Height
48	Total Hepta-Furans	0.9341	10.000	33.50							0.431	635
49												
50	PFK1											
51	PFK2											
52	PFK3											
53	PFK4											
54	PFK5											
55	DPK1											
56	DPK2											

Peak	Name	Area	Height	W	Ret	Height	Area	Height	Area	Height	Area	Height
1	1,2,3,4,6,7,8-HpCDF	37.37	1.458e5	1.442e5	1.01	NO	148.18	148.18				
2	Total Hepta-Furans	37.75	3.244e3	2.888e3	1.08	NO	3.7950	3.7950				
3	Total Hepta-Furans	37.89	2.085e5	2.088e5	1.00	NO	254.34	254.34				
4	1,2,3,4,7,8-HpCDF	38.73	5.499e4	4.470e4	1.02	NO	70.773	70.773				

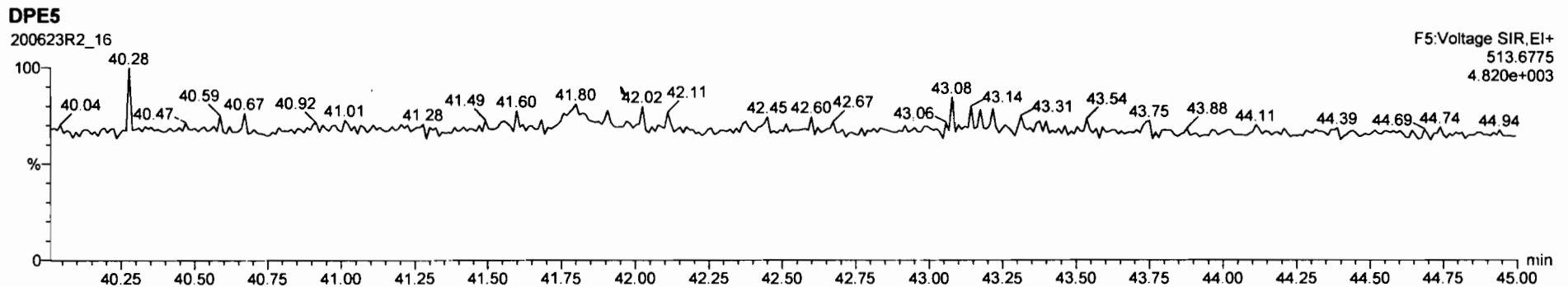
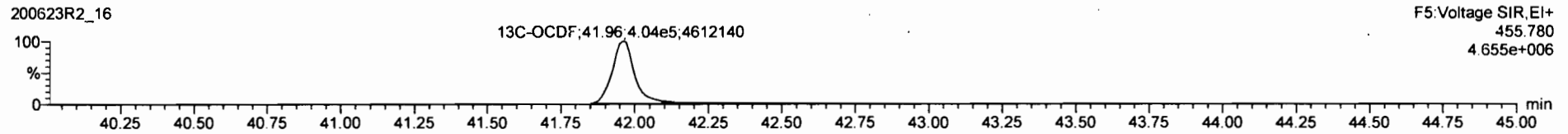
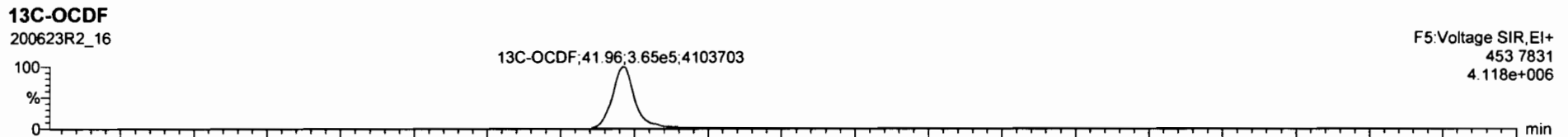
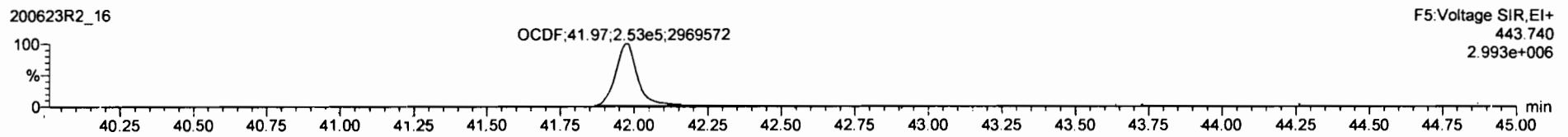
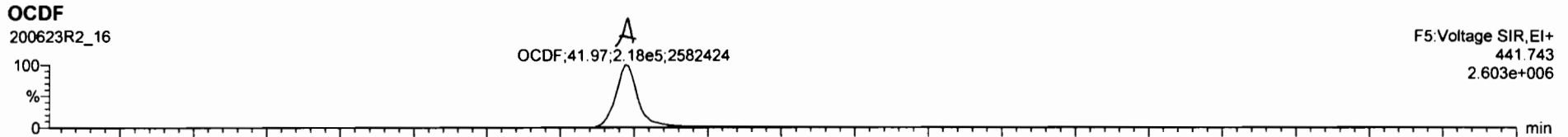


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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

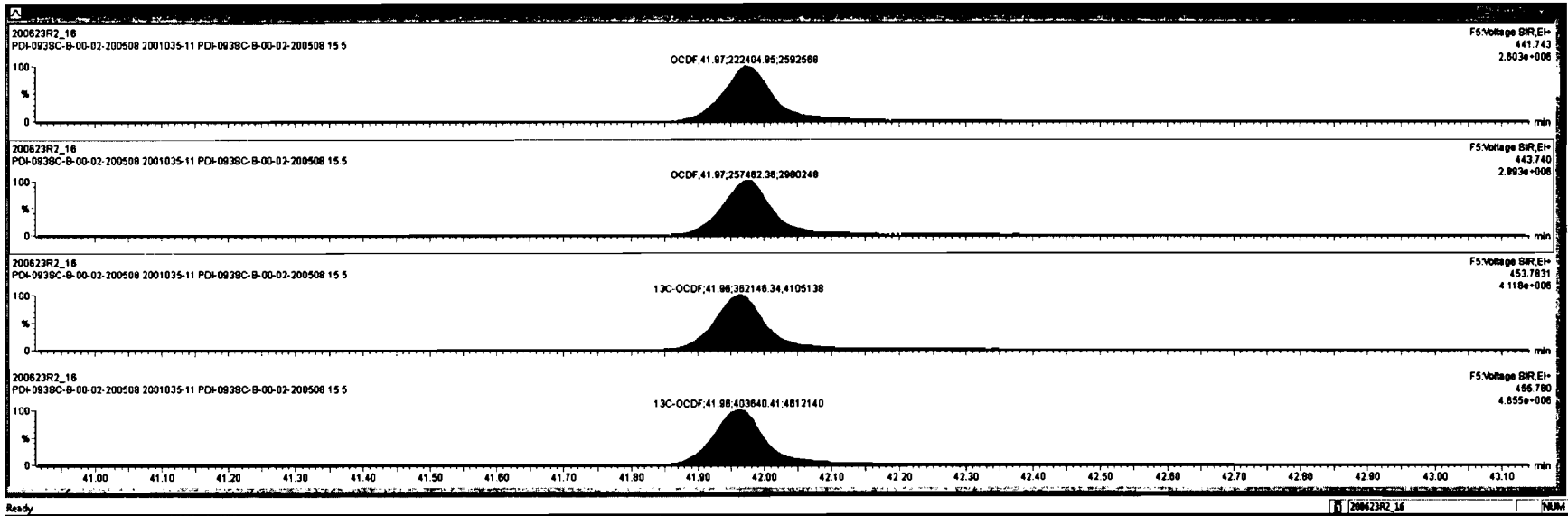
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NO	Name	Temp	RA	NO	Temp	RA	Temp	RA	Temp	RA	Temp	RA
28	13C-1,2,3,4,7,8-HxCDF	7.01e5	0.51	NO	1.0075	10.003	33.86	33.85	0.869	201	101	0.712
29	13C-1,2,3,6,7,8-HxCDF	7.97e5	0.57	NO	1.1870	10.003	34.06	34.07	0.862	197	98.7	0.815
30	13C-1,2,3,4,7,8-HxCDF	6.54e5	0.53	NO	1.0218	10.003	34.86	34.87	1.008	186	92.8	0.703
31	13C-1,2,3,7,8-HxCDF	5.58e5	0.49	NO	0.8696	10.003	35.68	35.68	1.036	187	93.8	0.834
32	13C-1,2,3,4,6,7,8-HxCDF	4.48e5	0.43	NO	0.7746	10.003	37.31	37.38	1.088	187	93.8	0.804
33	13C-1,2,3,4,7,8-HxCDF	3.04e5	0.48	NO	0.5210	10.003	38.34	38.32	1.145	186	94.3	0.749
34	13C-OCDF	7.98e5	0.80	NO	0.7457	10.003	41.83	41.86	1.222	287	74.3	0.413
35	13C-2,3,7,8-TCDF	2.92e5			1.0368	10.003	28.52	28.48	1.026	80.0	101	0.0886

NO	Name	Temp	RA	NO	Temp	RA	Temp	RA	Temp	RA	Temp	RA
36	13C-2,3,7,8-TCDF	2.92e5			1.0368	10.003	28.52	28.48	1.026	80.0	101	0.0886

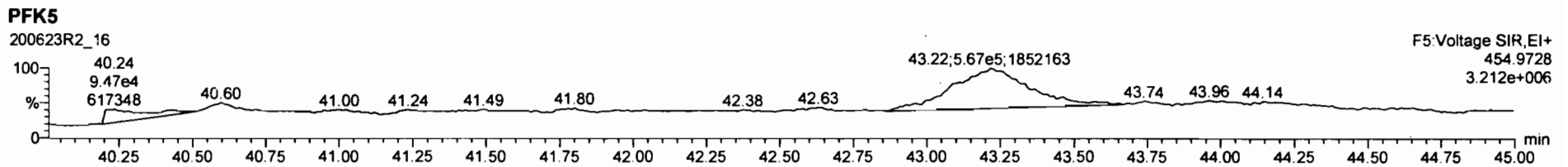
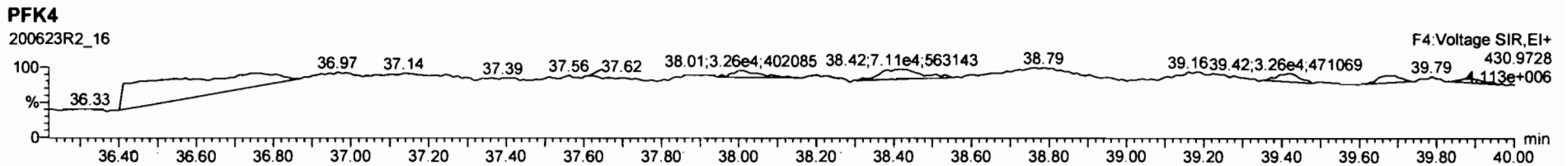
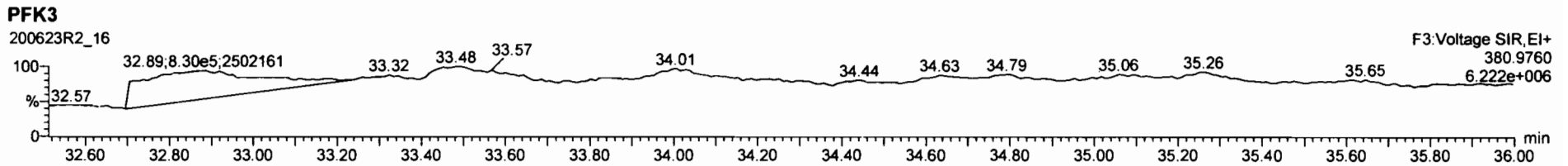
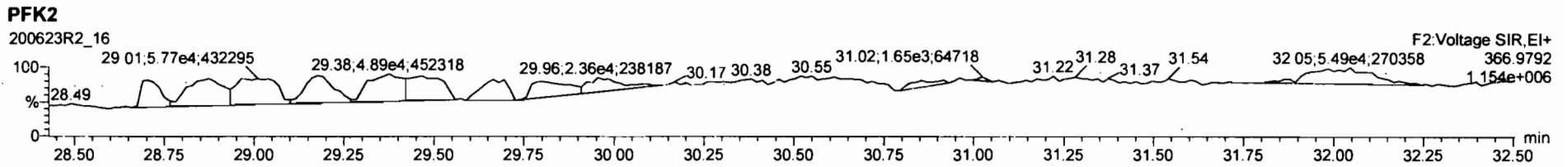
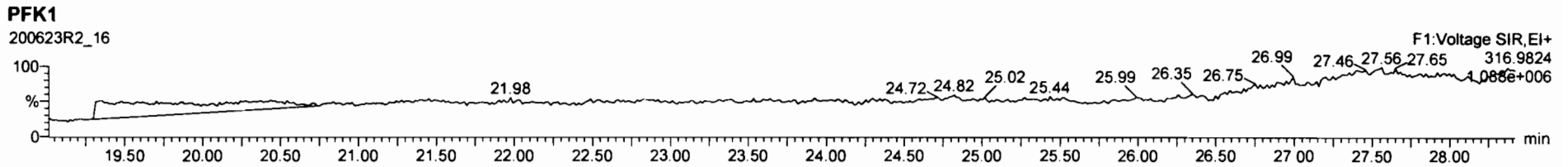


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Printed: Wednesday, June 24, 2020 7:08:41 AM Pacific Daylight Time

Name: 200623R2_16, Date: 24-Jun-2020, Time: 02:38:26, ID: 2001035-11 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508



Dataset: U:\VG12.PRO\Results\200623R3\200623R3-4.qld

Last Altered: Thursday, July 02, 2020 11:28:09 AM Pacific Daylight Time
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HIN 07/02/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

07/12/2020

Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

Peak	Comp	Resp	RA	n/y	RRF	wVol	Pred.R1	RR1	Cal.RRT	RT1	Conc	Conc	Conc
1	2,3,7,8-TCDD	1.46e3	0.53	YES	0.888	10.063	26.501	26.48	1.001	1.001	0.54561	0.104	0.433
2	1,2,3,7,8-PeCDD	3.04e3	0.63	NO	0.908	10.063	31.473	31.45	1.001	1.000	1.2329	0.112	1.23
3	1,2,3,4,7,8-HxCDD	1.87e3	1.31	NO	1.03	10.063	34.846	34.86	1.000	1.001	1.0513	0.288	1.05
4	1,2,3,6,7,8-HxCDD	2.02e4	1.22	NO	0.892	10.063	34.943	34.95	1.000	1.000	9.5997	0.282	9.60
5	1,2,3,7,8,9-HxCDD	5.44e3	1.23	NO	0.887	10.063	35.230	35.24	1.000	1.001	3.2071	0.339	3.21
6	1,2,3,4,6,7,8-HpCDD	5.84e5	1.02	NO	0.864	10.063	38.789	38.79	1.000	1.000	474.50	1.20	475
7	OCDD	5.78e6	0.88	NO	0.914	10.063	41.791	41.80	1.000	1.000	5017.0	1.46	5020
8	2,3,7,8-TCDF	3.32e5	0.76	NO	0.751	10.063	25.597	25.60	1.001	1.001	113.62	(93.0) 0.353	114
9	1,2,3,7,8-PeCDF	5.40e5	1.54	NO	0.893	10.063	30.175	30.17	1.001	1.001	144.66	0.366	145
10	2,3,4,7,8-PeCDF	3.36e5	1.58	NO	0.935	10.063	31.177	31.16	1.001	1.000	89.915	0.338	89.9
11	1,2,3,4,7,8-HxCDF	4.93e5	1.20	NO	0.884	10.063	33.952	33.97	1.000	1.001	230.48	0.381	230
12	1,2,3,6,7,8-HxCDF	1.89e5	1.20	NO	0.889	10.063	34.090	34.09	1.000	1.000	74.789	0.327	74.8
13	2,3,4,6,7,8-HxCDF	4.31e4	1.18	NO	0.934	10.063	34.701	34.68	1.001	1.000	20.183	0.378	20.2
14	1,2,3,7,8,9-HxCDF	1.43e4	1.14	NO	0.871	10.063	35.582	35.61	1.000	1.001	8.4117	0.597	8.41
15	1,2,3,4,6,7,8-HpCDF	3.63e5	0.99	NO	0.873	10.063	37.408	37.38	1.001	1.000	271.94	0.673	272
16	1,2,3,4,7,8,9-HpCDF	4.50e4	0.98	NO	1.01	10.063	39.331	39.34	1.000	1.000	44.649	0.780	44.6
17	OCDF	3.52e5	0.86	NO	0.806	10.063	41.982	41.99	1.000	1.000	338.00	0.589	338
18	13C-2,3,7,8-TCDD	5.98e5	0.77	NO	1.16	10.063	26.491	26.47	1.026	1.026	194.89	98.1	0.260
19	13C-1,2,3,7,8-PeCDD	5.40e5	0.63	NO	0.849	10.063	31.674	31.45	1.227	1.219	239.93	121	0.514
20	13C-1,2,3,4,7,8-HxCDD	3.43e5	1.28	NO	0.779	10.063	34.841	34.84	1.014	1.014	158.35	79.7	0.575
21	13C-1,2,3,6,7,8-HxCDD	4.68e5	1.27	NO	1.02	10.063	34.955	34.94	1.017	1.017	165.60	83.3	0.440
22	13C-1,2,3,7,8,9-HxCDD	3.80e5	1.27	NO	0.903	10.063	35.226	35.22	1.025	1.025	151.74	76.4	0.496
23	13C-1,2,3,4,6,7,8-HpCDD	2.83e5	1.00	NO	0.689	10.063	38.751	38.78	1.128	1.129	148.02	74.5	0.508
24	13C-OCDD	5.01e5	0.89	NO	0.652	10.063	41.775	41.79	1.216	1.216	276.72	69.6	0.556
25	13C-2,3,7,8-TCDF	7.74e5	0.77	NO	1.06	10.063	25.534	25.57	0.989	0.991	186.41	93.8	0.364
26	13C-1,2,3,7,8-PeCDF	8.32e5	1.58	NO	0.838	10.063	30.058	30.15	1.165	1.168	253.23	127	0.861
27	13C-2,3,4,7,8-PeCDF	7.95e5	1.58	NO	0.817	10.063	31.011	31.15	1.202	1.207	248.33	125	0.884
28	13C-1,2,3,4,7,8-HxCDF	4.81e5	0.51	NO	1.01	10.063	33.972	33.95	0.989	0.988	171.94	86.5	0.772
29	13C-1,2,3,6,7,8-HxCDF	5.65e5	0.51	NO	1.17	10.063	34.096	34.08	0.992	0.992	174.33	87.7	0.667
30	13C-2,3,4,6,7,8-HxCDF	4.54e5	0.51	NO	1.02	10.063	34.670	34.67	1.009	1.009	159.96	80.5	0.761
31	13C-1,2,3,7,8,9-HxCDF	3.88e5	0.50	NO	0.860	10.063	35.570	35.58	1.035	1.036	162.39	81.7	0.905

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-4.qld

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Printed: Thursday, July 02, 2020 11:28:43 AM Pacific Daylight Time

Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

	Peak	PU	ny	RRF	wt/vol	Pred. Rf	RT	RFI						
32	13C-1,2,3,4,6,7,8-HpCDF	3.04e5	0.44	NO	0.774	10.063	37.319	37.37	1.086	1.088	141.24	71.1	0.496	
33	13C-1,2,3,4,7,8,9-HpCDF	1.98e5	0.43	NO	0.521	10.063	39.349	39.33	1.145	1.145	136.79	68.8	0.737	
34	13C-OCDF	5.14e5	0.88	NO	0.746	10.063	41.946	41.98	1.221	1.222	248.20	62.4	0.456	
35	37Cl-2,3,7,8-TCDD	2.23e5			1.04	10.063	26.522	26.48	1.028	1.026	80.975	102	0.0737	
36	13C-1,2,3,4-TCDD	5.27e5	0.78	NO	1.00	10.063	25.890	25.81	1.000	1.000	198.74	100	0.300	
37	13C-1,2,3,4-TCDF	7.79e5	0.80	NO	1.00	10.063	24.360	24.13	1.000	1.000	198.74	100	0.385	
38	13C-1,2,3,4,6,9-HxCDF	5.52e5	0.52	NO	1.00	10.063	34.420	34.36	1.000	1.000	198.74	100	0.778	
39	Total Tetra-Dioxins				0.888	10.063	24.620		0.000		6.8601		0.104	8.49
40	Total Penta-Dioxins				0.908	10.063	29.960		0.000		16.025		0.112	17.7
41	Total Hexa-Dioxins				0.892	10.063	33.635		0.000		115.48		0.314	115
42	Total Hepta-Dioxins				0.864	10.063	37.640		0.000		1135.6		1.20	1140
43	Total Tetra-Furans				0.751	10.063	23.610		0.000		326.84		0.353	346
44	1st Func. Penta-Furans				0.893	10.063	27.580		0.000		48.386		0.0313	48.4
45	Total Penta-Furans				0.893	10.063	29.275		0.000		404.35		0.360	413
46	Total Hexa-Furans				0.934	10.063	33.555		0.000		534.48		0.390	534
47	Total Hepta-Furans				0.873	10.063	37.835		0.000		636.49		0.764	636

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Dataset: U:\VG12.PRO\Results\200623R3\200623R3-4.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.47	5.805e4	6.432e4	4.728e3	6.029e3	0.78	NO	1.076e4	4.0249	4.0249	0.104
Total Tetra-Dioxins	22.88	8.413e3	1.486e4	8.788e2	1.278e3	0.69	NO	2.157e3	0.80714	0.80714	0.104
Total Tetra-Dioxins	23.42	5.655e3	4.474e3	3.945e2	3.868e2	1.02	YES	0.000e0	0.00000	0.25618	0.104
Total Tetra-Dioxins	24.28	2.529e3	2.659e3	1.336e2	1.338e2	1.00	YES	0.000e0	0.00000	0.088618	0.104
Total Tetra-Dioxins	24.54	9.751e3	1.411e4	8.854e2	1.182e3	0.75	NO	2.068e3	0.77366	0.77366	0.104
Total Tetra-Dioxins	24.76	1.089e4	1.504e4	7.981e2	8.744e2	0.91	YES	0.000e0	0.00000	0.57911	0.104
Total Tetra-Dioxins	24.99	4.212e3	5.415e3	2.799e2	3.328e2	0.84	NO	6.128e2	0.22929	0.22929	0.104
Total Tetra-Dioxins	25.24	1.836e3	2.876e3	1.097e2	1.772e2	0.62	YES	0.000e0	0.00000	0.094390	0.104
Total Tetra-Dioxins	25.41	4.706e3	5.762e3	3.033e2	3.554e2	0.85	NO	6.588e2	0.24650	0.24650	0.104
Total Tetra-Dioxins	26.23	1.045e4	1.259e4	8.384e2	1.022e3	0.82	NO	1.861e3	0.69626	0.69626	0.104
2,3,7,8-TCDD	26.48	8.155e3	1.637e4	5.036e2	9.545e2	0.53	YES	1.458e3	0.00000	0.43320	0.104
Total Tetra-Dioxins	26.81	3.474e3	6.713e3	2.084e2	3.909e2	0.53	YES	0.000e0	0.00000	0.17929	0.104
Total Tetra-Dioxins	27.46	3.004e3	3.491e3	9.341e1	1.268e2	0.74	NO	2.202e2	0.082408	0.082408	0.104

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.24	6.188e4	1.022e5	5.355e3	8.476e3	0.63	NO	1.383e4	5.6013	5.6013	0.112
Total Penta-Dioxins	29.71	1.428e4	2.469e4	7.993e2	1.223e3	0.65	NO	2.022e3	0.81895	0.81895	0.112
Total Penta-Dioxins	30.20	6.826e4	1.003e5	3.686e3	5.697e3	0.65	NO	9.383e3	3.7999	3.7999	0.112
Total Penta-Dioxins	30.38	2.713e4	4.479e4	1.480e3	2.374e3	0.62	NO	3.854e3	1.5607	1.5607	0.112
Total Penta-Dioxins	30.46	2.357e4	3.282e4	1.389e3	1.812e3	0.77	YES	0.000e0	0.00000	1.1960	0.112
Total Penta-Dioxins	30.67	2.110e4	3.490e4	1.956e3	3.146e3	0.62	NO	5.102e3	2.0662	2.0662	0.112
Total Penta-Dioxins	31.01	8.150e3	1.223e4	3.867e2	5.958e2	0.65	NO	9.825e2	0.39789	0.39789	0.112
1,2,3,7,8-PeCDD	31.45	2.228e4	3.876e4	1.173e3	1.871e3	0.63	NO	3.044e3	1.2329	1.2329	0.112
Total Penta-Dioxins	31.54	1.086e4	1.352e4	5.675e2	6.779e2	0.84	YES	0.000e0	0.00000	0.44748	0.112
Total Penta-Dioxins	31.74	4.808e3	2.455e3	1.181e2	5.827e1	2.03	YES	0.000e0	0.00000	0.038467	0.112
Total Penta-Dioxins	31.85	1.105e4	1.562e4	5.445e2	8.071e2	0.67	NO	1.352e3	0.54740	0.54740	0.112

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-4.qld

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Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Area	Area	Area		
Total Hexa-Dioxins	33.33	8.729e5	7.375e5	4.412e4	3.685e4	1.20	NO	8.097e4	45.452	45.452	0.314
Total Hexa-Dioxins	33.90	9.637e4	7.826e4	5.446e3	4.360e3	1.25	NO	9.806e3	5.5042	5.5042	0.314
Total Hexa-Dioxins	34.17	6.997e5	5.616e5	4.904e4	3.933e4	1.25	NO	8.837e4	49.604	49.604	0.314
1,2,3,4,7,8-HxCDD	34.86	2.395e4	1.484e4	1.062e3	8.099e2	1.31	NO	1.872e3	1.0513	1.0513	0.288
1,2,3,6,7,8-HxCDD	34.95	1.892e5	1.461e5	1.106e4	9.087e3	1.22	NO	2.015e4	9.5997	9.5997	0.282
Total Hexa-Dioxins	35.12	2.105e4	1.795e4	1.014e3	8.796e2	1.15	NO	1.893e3	1.0627	1.0627	0.314
1,2,3,7,8,9-HxCDD	35.24	4.924e4	4.234e4	3.006e3	2.437e3	1.23	NO	5.444e3	3.2071	3.2071	0.339

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Area	Area	Area		
Total Hepta-Dioxins	37.78	5.407e6	5.270e6	4.096e5	4.045e5	1.01	NO	8.141e5	661.13	661.13	1.20
1,2,3,4,6,7,8-HpCDD	38.79	4.203e6	4.234e6	2.948e5	2.895e5	1.02	NO	5.843e5	474.50	474.50	1.20

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-4.qld

Last Altered: Thursday, July 02, 2020 11:28:09 AM Pacific Daylight Time
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Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Area	Area	
Total Tetra-Furans	20.35	1.133e4	1.259e4	7.610e2	1.036e3	0.73	NO	1.797e3	0.61455	0.61455	0.353
Total Tetra-Furans	20.87	2.904e4	4.191e4	2.502e3	3.482e3	0.72	NO	5.984e3	2.0462	2.0462	0.353
Total Tetra-Furans	21.47	1.591e5	2.150e5	1.427e4	1.945e4	0.73	NO	3.372e4	11.532	11.532	0.353
Total Tetra-Furans	22.04	4.830e4	6.960e4	7.206e3	9.650e3	0.75	NO	1.686e4	5.7643	5.7643	0.353
Total Tetra-Furans	22.44	3.903e5	5.014e5	3.763e4	5.035e4	0.75	NO	8.798e4	30.088	30.088	0.353
Total Tetra-Furans	22.94	1.678e5	2.197e5	1.667e4	2.192e4	0.76	NO	3.859e4	13.196	13.196	0.353
Total Tetra-Furans	23.30	4.673e4	6.219e4	4.590e3	5.986e3	0.77	NO	1.058e4	3.6166	3.6166	0.353
Total Tetra-Furans	23.73	1.139e4	1.621e4	1.165e3	1.584e3	0.74	NO	2.749e3	0.94004	0.94004	0.353
Total Tetra-Furans	23.88	1.006e4	1.478e4	7.509e2	1.017e3	0.74	NO	1.768e3	0.60453	0.60453	0.353
Total Tetra-Furans	24.04	1.166e5	1.486e5	8.031e3	1.087e4	0.74	NO	1.890e4	6.4624	6.4624	0.353
Total Tetra-Furans	24.13	1.503e5	1.966e5	1.469e4	1.929e4	0.76	NO	3.398e4	11.621	11.621	0.353
Total Tetra-Furans	24.66	1.678e6	2.170e6	1.331e5	1.749e5	0.76	NO	3.080e5	105.34	105.34	0.353
Total Tetra-Furans	24.94	6.592e4	8.365e4	5.284e3	6.923e3	0.76	NO	1.221e4	4.1746	4.1746	0.353
Total Tetra-Furans	25.15	7.335e3	8.982e3	6.488e2	9.232e2	0.70	NO	1.572e3	0.53755	0.53755	0.353
Total Tetra-Furans	25.38	2.511e4	3.586e4	1.727e3	2.138e3	0.81	NO	3.865e3	1.3217	1.3217	0.353
Total Tetra-Furans	25.48	2.110e5	2.669e5	1.259e4	1.656e4	0.76	NO	2.915e4	9.9691	9.9691	0.353
2,3,7,8-TCDF	25.60	1.889e6	2.505e6	1.438e5	1.884e5	0.76	NO	3.322e5	113.62	113.62	0.353
Total Tetra-Furans	25.97	7.830e4	1.047e5	6.093e3	7.337e3	0.83	NO	1.343e4	4.5926	4.5926	0.353
Total Tetra-Furans	26.21	1.567e4	2.165e4	1.013e3	1.325e3	0.76	NO	2.338e3	0.79947	0.79947	0.353
Total Tetra-Furans	27.13	8.857e3	1.049e4	6.568e2	5.475e2	1.20	YES	0.000e0	0.00000	0.33141	0.353
Total Tetra-Furans	27.29	1.327e4	1.256e4	9.002e2	6.913e2	1.30	YES	0.000e0	0.00000	0.41840	0.353
Total Tetra-Furans	27.59	5.009e5	4.329e5	3.429e4	3.072e4	1.12	YES	0.000e0	0.00000	18.596	0.353

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Area	Area	Area	
1st Func. Penta-Furans	27.59	1.710e6	1.060e6	1.087e5	6.806e4	1.60	NO	1.768e5	48.386	48.386	0.0313

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-4.qld

Last Altered: Thursday, July 02, 2020 11:28:09 AM Pacific Daylight Time
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Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	My	Area	Area	Area	Area
Total Penta-Furans	29.04	1.230e5	7.062e4	6.492e3	4.039e3	1.61	NO	1.053e4	2.8827	2.8827	0.360
Total Penta-Furans	29.18	3.024e6	1.930e6	1.907e5	1.215e5	1.57	NO	3.122e5	85.453	85.453	0.360
Total Penta-Furans	29.77	3.252e5	2.022e5	1.829e4	1.173e4	1.56	NO	0.000e0	0.00000	8.2203	0.360
Total Penta-Furans	29.83	9.392e4	5.233e4	4.406e3	2.668e3	1.65	NO	7.075e3	1.9367	1.9367	0.360
Total Penta-Furans	29.99	7.522e5	4.812e5	3.925e4	2.536e4	1.55	NO	6.461e4	17.687	17.687	0.360
1,2,3,7,8-PeCDF	30.17	5.724e6	3.779e6	3.274e5	2.130e5	1.54	NO	5.404e5	144.66	144.66	0.366
Total Penta-Furans	30.44	2.237e6	1.402e6	1.286e5	8.039e4	1.60	NO	2.090e5	57.203	57.203	0.360
Total Penta-Furans	31.04	5.126e4	3.097e4	2.162e3	1.604e3	1.35	NO	3.766e3	1.0311	1.0311	0.360
2,3,4,7,8-PeCDF	31.16	3.022e6	1.929e6	2.057e5	1.305e5	1.58	NO	3.362e5	89.915	89.915	0.338
Total Penta-Furans	32.09	1.512e5	1.032e5	7.926e3	5.168e3	1.53	NO	1.309e4	3.5846	3.5846	0.360

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	My	Area	Area	Area	Area
Total Hexa-Furans	32.79	6.230e5	5.027e5	3.104e4	2.493e4	1.25	NO	5.597e4	25.236	25.236	0.390
Total Hexa-Furans	32.96	1.663e6	1.379e6	8.697e4	7.173e4	1.21	NO	1.587e5	71.560	71.560	0.390
Total Hexa-Furans	33.31	3.492e4	2.136e4	1.399e3	1.231e3	1.14	NO	2.630e3	1.1858	1.1858	0.390
Total Hexa-Furans	33.50	1.780e6	1.507e6	9.290e4	7.745e4	1.20	NO	1.704e5	76.811	76.811	0.390
Total Hexa-Furans	33.87	6.911e4	5.125e4	3.035e3	2.353e3	1.29	NO	5.387e3	2.4291	2.4291	0.390
1,2,3,4,7,8-HxCDF	33.97	5.021e6	4.203e6	2.690e5	2.244e5	1.20	NO	4.934e5	230.48	230.48	0.381
1,2,3,6,7,8-HxCDF	34.09	1.568e6	1.338e6	1.031e5	8.593e4	1.20	NO	1.890e5	74.789	74.789	0.327
Total Hexa-Furans	34.37	4.964e4	4.364e4	3.465e3	2.671e3	1.30	NO	6.136e3	2.7667	2.7667	0.390
2,3,4,6,7,8-HxCDF	34.68	4.174e5	3.542e5	2.335e4	1.971e4	1.18	NO	4.306e4	20.183	20.183	0.378
1,2,3,7,8,9-HxCDF	35.61	3.711e5	3.046e5	7.602e3	6.682e3	1.14	NO	1.428e4	8.4117	8.4117	0.597
Total Hexa-Furans	35.63	4.790e5	4.084e5	2.529e4	2.045e4	1.24	NO	4.573e4	20.621	20.621	0.390

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-4.qld

Last Altered: Thursday, July 02, 2020 11:28:09 AM Pacific Daylight Time
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Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	NO	Area	Area	Area	
1,2,3,4,6,7,8-HpCDF	37.38	2.588e6	2.637e6	1.806e5	1.824e5	0.99	NO	3.630e5	271.94	271.94	0.673
Total Hepta-Furans	37.80	2.991e4	2.884e4	1.974e3	1.767e3	1.12	NO	3.741e3	3.3942	3.3942	0.764
Total Hepta-Furans	38.00	2.316e6	2.318e6	1.748e5	1.741e5	1.00	NO	3.489e5	316.51	316.51	0.764
1,2,3,4,7,8,9-HpCDF	39.34	3.602e5	3.684e5	2.227e4	2.276e4	0.98	NO	4.503e4	44.649	44.649	0.780

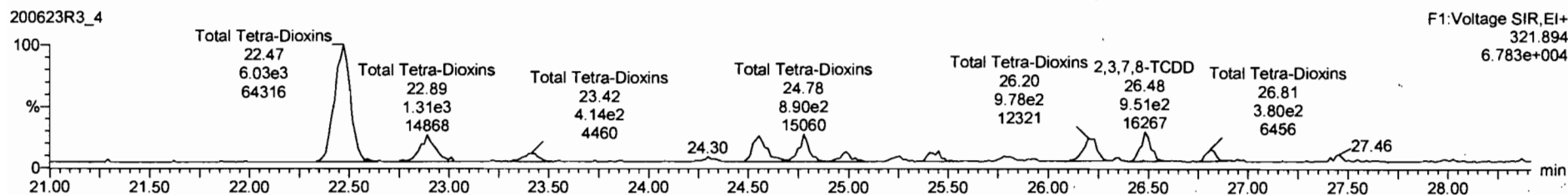
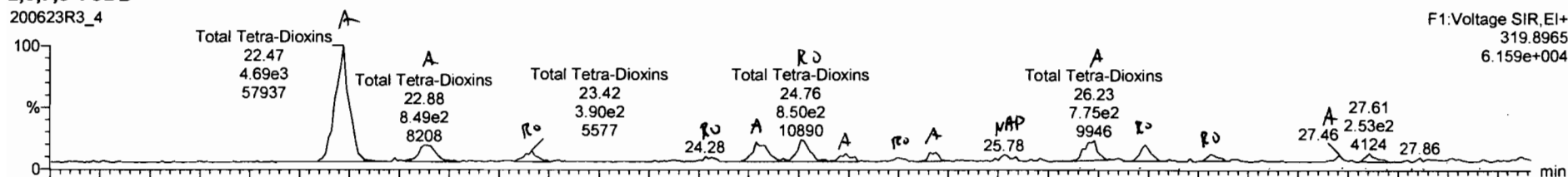
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Last Altered: Wednesday, June 24, 2020 7:24:36 AM Pacific Daylight Time
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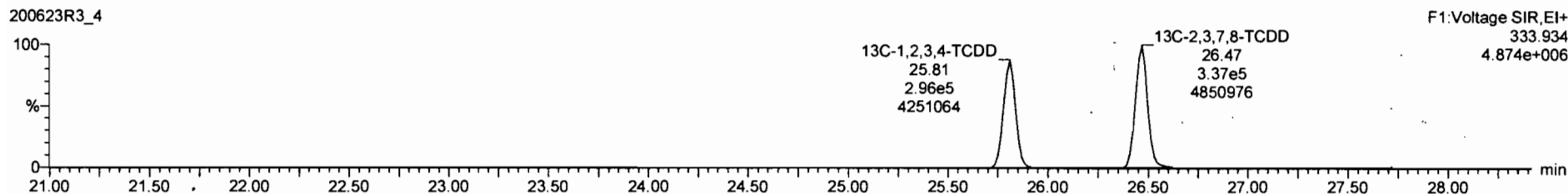
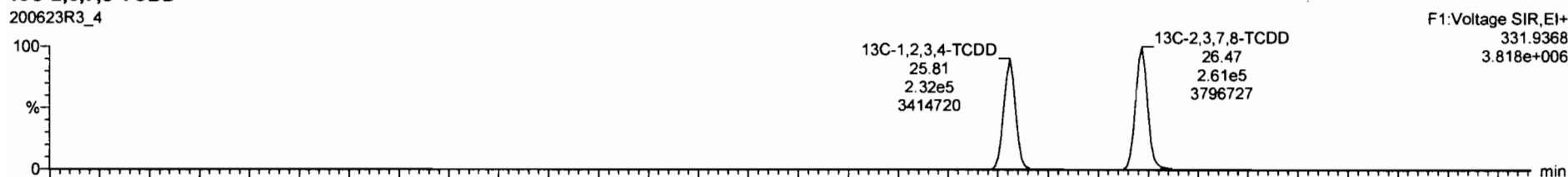
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Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

2,3,7,8-TCDD

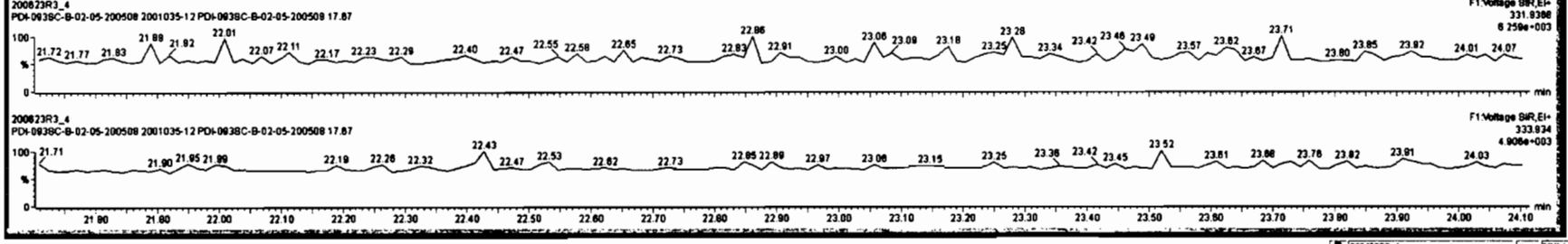
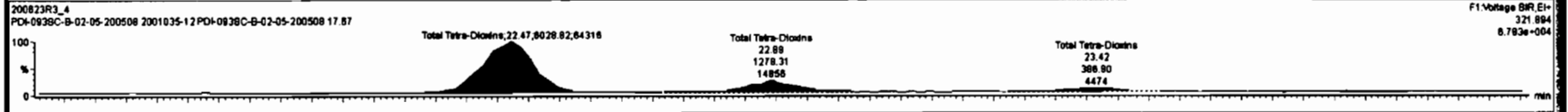
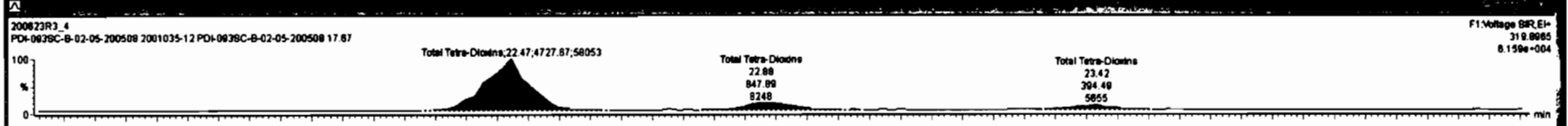


13C-2,3,7,8-TCDD



Sample	Parameter	Value	Unit	Method	Limit	Pass/Fail
001	Total Penta-Chlorine	0.8081	10.083	28.98	14.0	0.112 17.0
002	Total Hexa-Chlorine	0.8823	10.083	33.83	115	0.314 119
003	Total Hepta-Chlorine	0.8638	10.083	37.84	1110	1.20 1110
004	Total Tetra-Furane	0.7510	10.083	23.81	324	0.353 344
005	Total Furic, Penta-Furane	0.8825	10.083	27.58	48.4	0.0313 48.4
006	Total Penta-Furane	0.8341	10.083	33.58	538	0.380 408
007	Total Hexa-Furane	0.8784	10.083	37.81	538	0.380 537

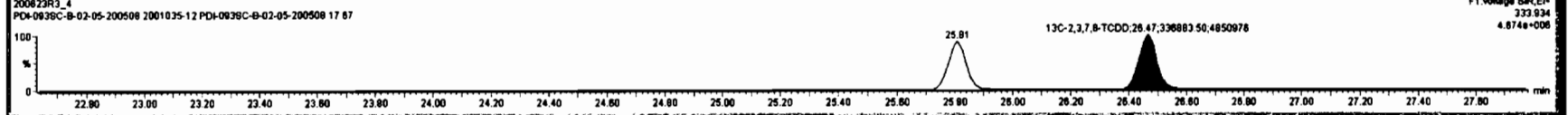
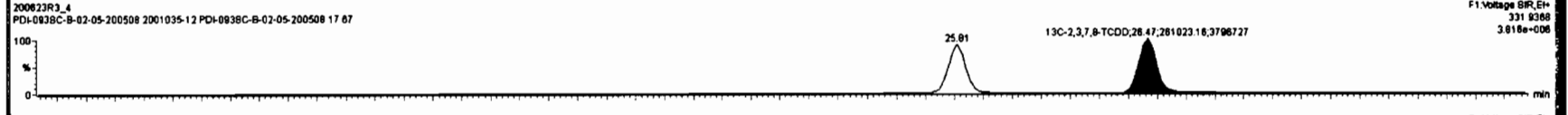
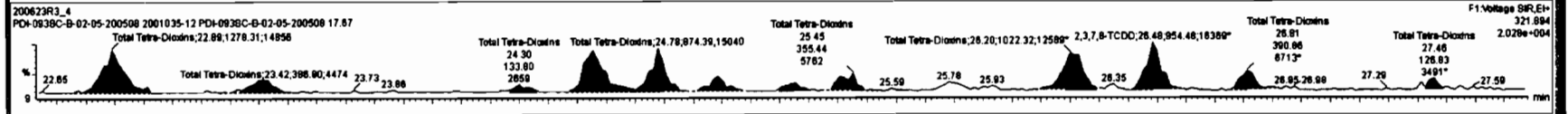
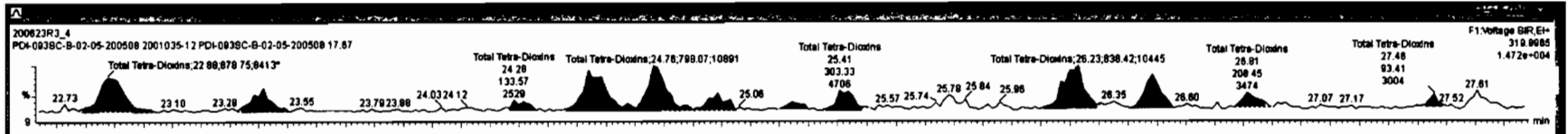
Sample	Parameter	Value	Unit	Method	Limit	Pass/Fail
001	Total Tetra-Chlorine	4.728e3	8.028e3	0.78	NO	4.0248 4.0248
002	Total Tetra-Chlorine	8.478e2	1.278e3	0.88	NO	0.78558 0.78558
003	Total Tetra-Chlorine	3.845e2	3.888e2	1.02	YES	0.25818 0.00000
004	Total Tetra-Chlorine	1.338e2	1.338e2	1.00	YES	0.088818 0.00000
005	Total Tetra-Chlorine	8.854e2	1.182e3	0.75	NO	0.77388 0.77388
006	Total Tetra-Chlorine	7.981e2	8.744e2	0.91	YES	0.57911 0.00000





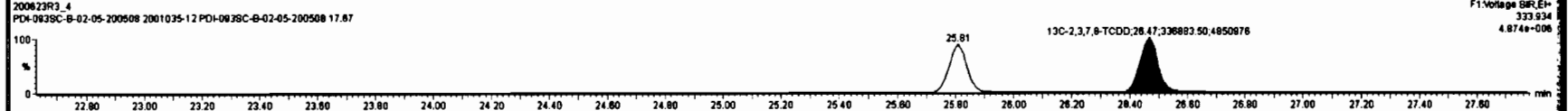
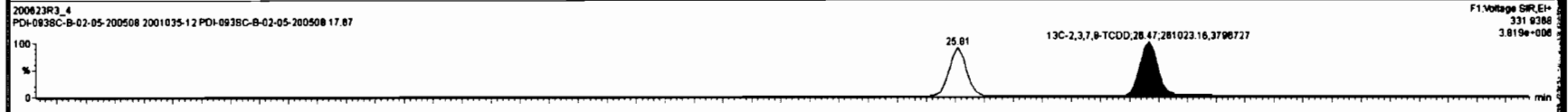
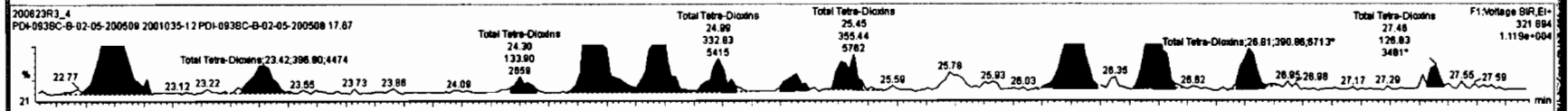
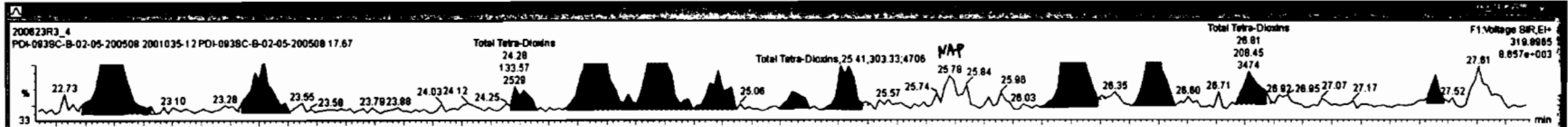
Item	Value	Unit
Total Penta-Dioxins	0.8081	10.083
Total Hexa-Dioxins	0.8923	10.083
Total Hepta-Dioxins	0.8838	10.083
Total Tetra-Furans	0.7510	10.083
1st Func. Penta-Furans	0.8925	10.083
Total Penta-Furans	0.8925	10.083
Total Hexa-Furans	0.8341	10.083

Item	Value	Unit
Total Tetra-Dioxins	4.728e3	0.78
Total Tetra-Dioxins	8.479e2	1.278e3
Total Tetra-Dioxins	3.845e2	3.889e2
Total Tetra-Dioxins	1.338e2	1.338e2



Peak	Retention Time	Area	Height	Width	Integration	Signal	Baseline
49	22.73	0.9081	10.083	28.86	14.0	0.112	17.0
50	23.10	0.8623	10.083	33.83	115	0.314	115
51	23.28	0.8538	10.083	37.84	1110	1.20	1110
52	23.55	0.7510	10.083	23.81	324	0.353	344
53	23.56	0.8625	10.083	27.58	48.4	0.0313	48.4
54	23.88	0.8625	10.083	28.27	405	0.380	408
55	24.08	0.8341	10.083	33.58	538	0.380	537

Peak	Retention Time	Area	Height	Width	Integration	Signal	Baseline
1	24.28	4.728e2	8.028e3	0.78	NO	4.0248	4.0248
2	24.30	8.478e2	1.278e3	0.88	NO	0.78558	0.78558
3	24.32	3.845e2	3.868e2	1.02	YES	0.25818	0.00000
4	24.35	1.336e2	1.336e2	1.00	YES	0.008818	0.00000



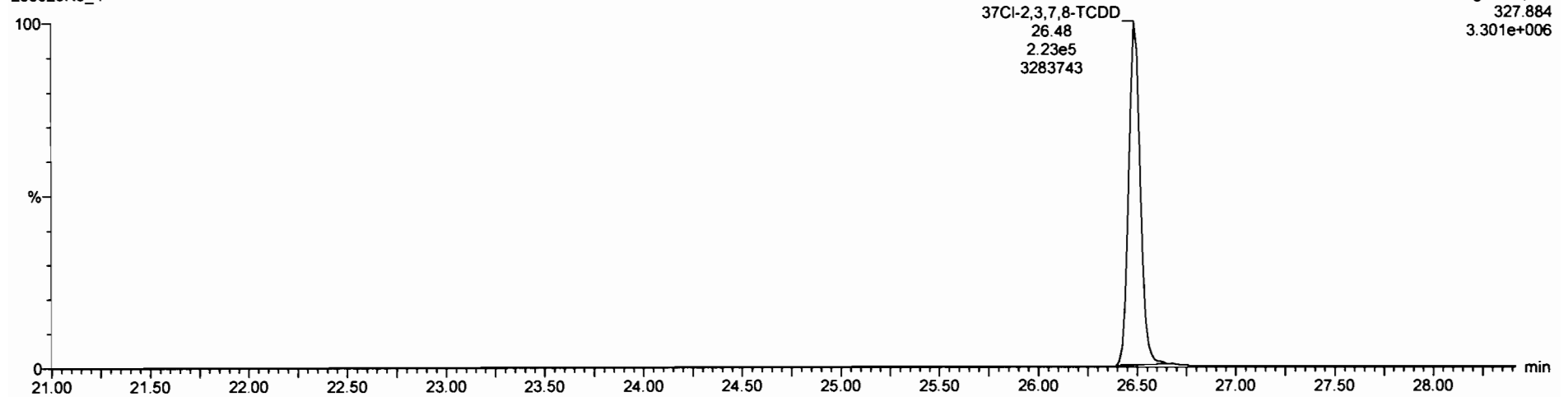
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Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

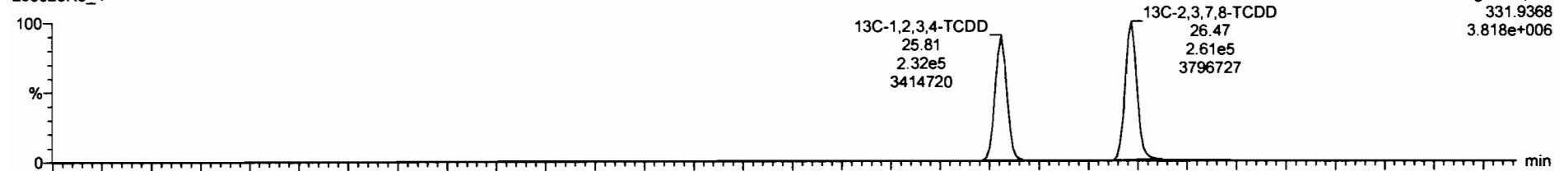
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200623R3_4

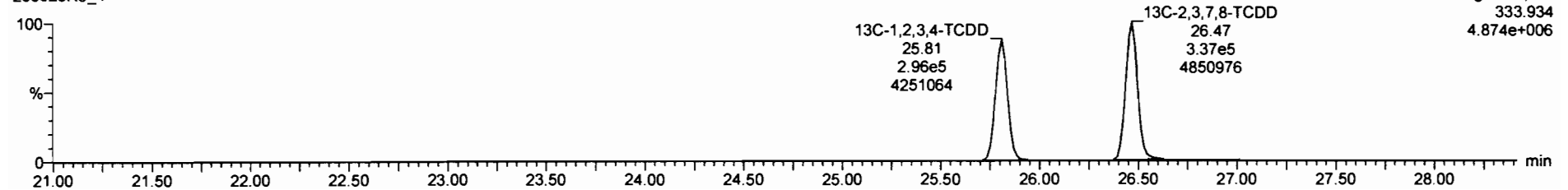


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200623R3_4



200623R3_4



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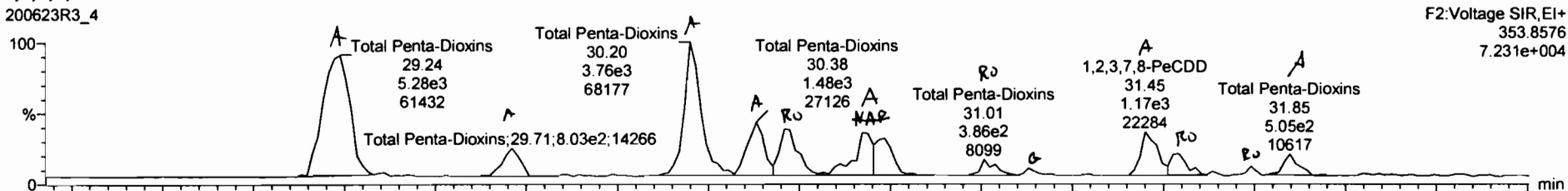
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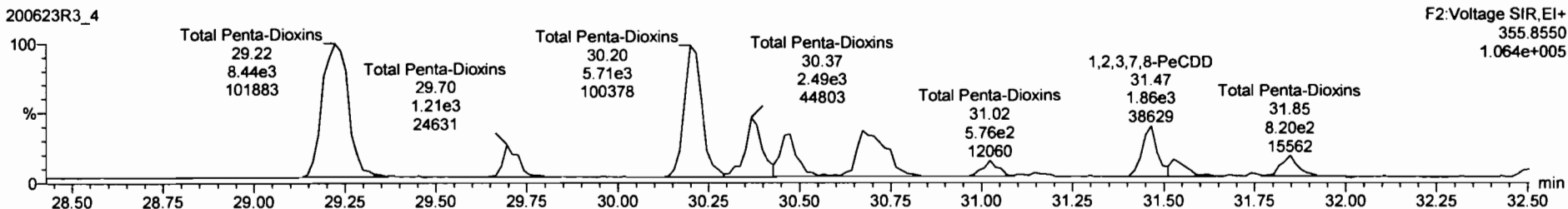
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200623R3_4

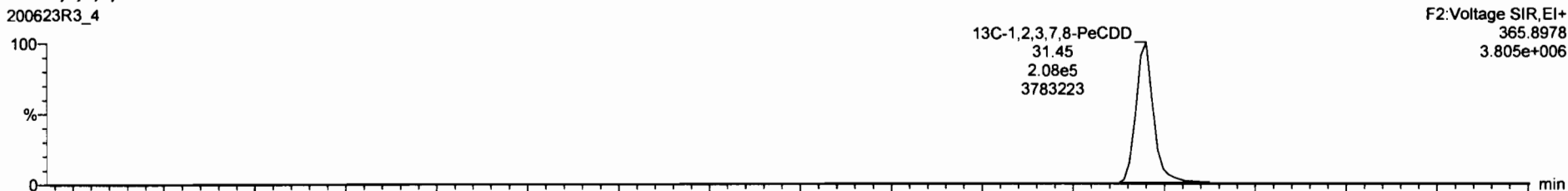


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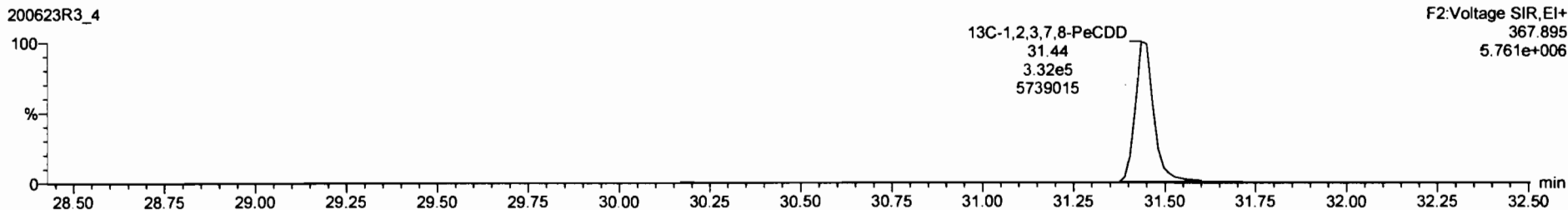


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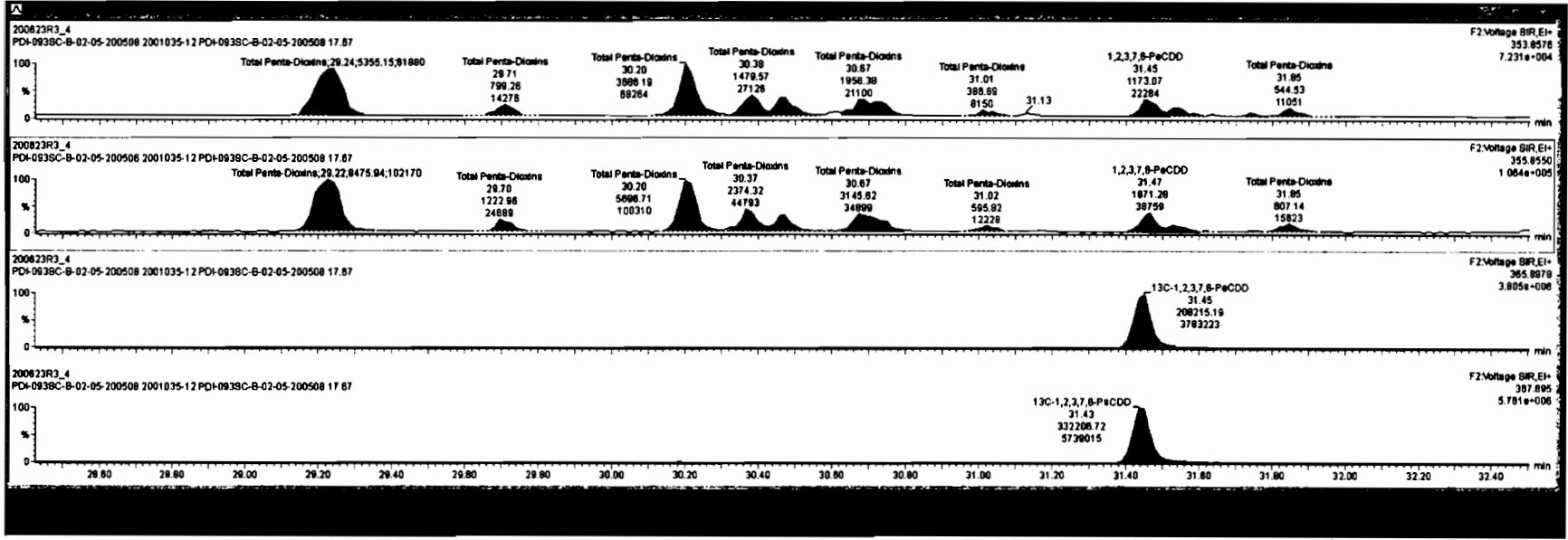


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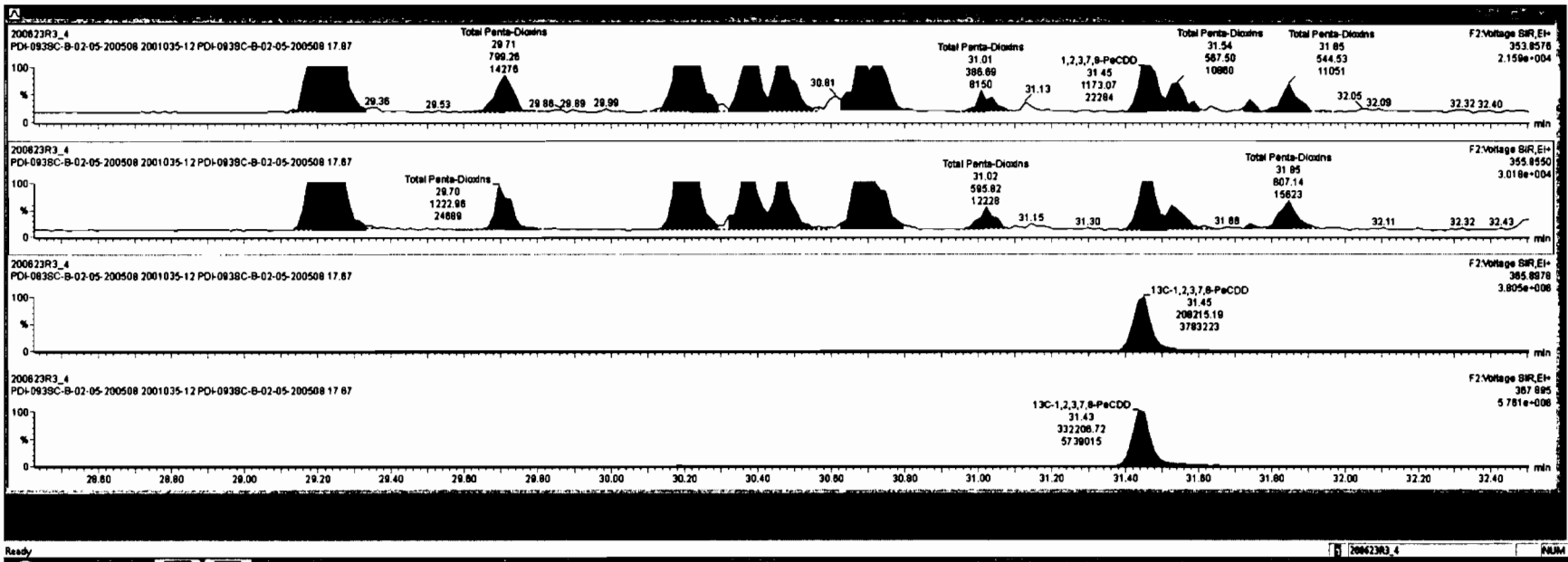
Sample	Concentration	Area	Height	Width	Retention	Integration
Total Tetra-Dioxine	0.8883	10.083	24.82		6.86	0.104 6.48
Total Hexa-Dioxine	0.8823	10.083	33.83		115	0.314 115
Total Hepta-Dioxine	0.8636	10.083	37.84		1110	1.20 1110
Total Tetra-Furane	0.7510	10.083	23.81		324	0.363 344
Total Penta-Furane	0.8825	10.083	27.59		48.4	0.0213 48.4
Total Tetra-Furane	0.8825	10.083	28.27		405	0.380 409
Total Hexa-Furane	0.8341	10.083	33.56		536	0.380 537

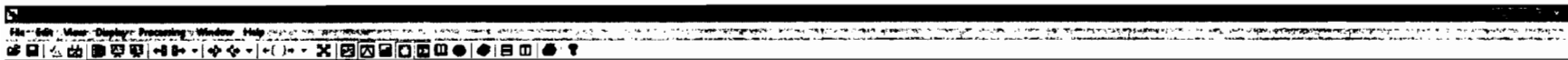
Sample	Area	Height	Width	Retention	Integration
Total Penta-Dioxine	30.46	1.389e3	1.812e3	0.77	YES 1.1800 0.00000
Total Penta-Dioxine	30.67	1.958e3	3.148e3	0.82	NO 2.0862 2.0862
Total Penta-Dioxine	31.01	3.867e2	5.858e2	0.85	NO 0.36788 0.36788



Sample No.	Sample Name	Sample Type	Sample Date	Sample Time	Sample Location	Sample Depth	Sample Volume	Sample Weight	Sample Concentration	Sample Recovery	Sample Comments	
20	Total Tetra-Dioxins						0.8963	10.083	24.62	8.86	0.104	8.49
41	Total Hexa-Dioxins						0.8923	10.083	33.83	115	0.314	115
42	Total Hepta-Dioxins						0.8638	10.083	37.94	1110	1.20	1110
43	Total Tetra-Furans						0.7510	10.083	23.81	324	0.363	344
44	1,4-Furc. Penta-Furans						0.8825	10.083	27.58	48.4	0.0313	48.4
45	Total Penta-Furans						0.8825	10.083	29.27	405	0.390	408
46	Total Hexa-Furans						0.8341	10.083	33.56	536	0.380	537

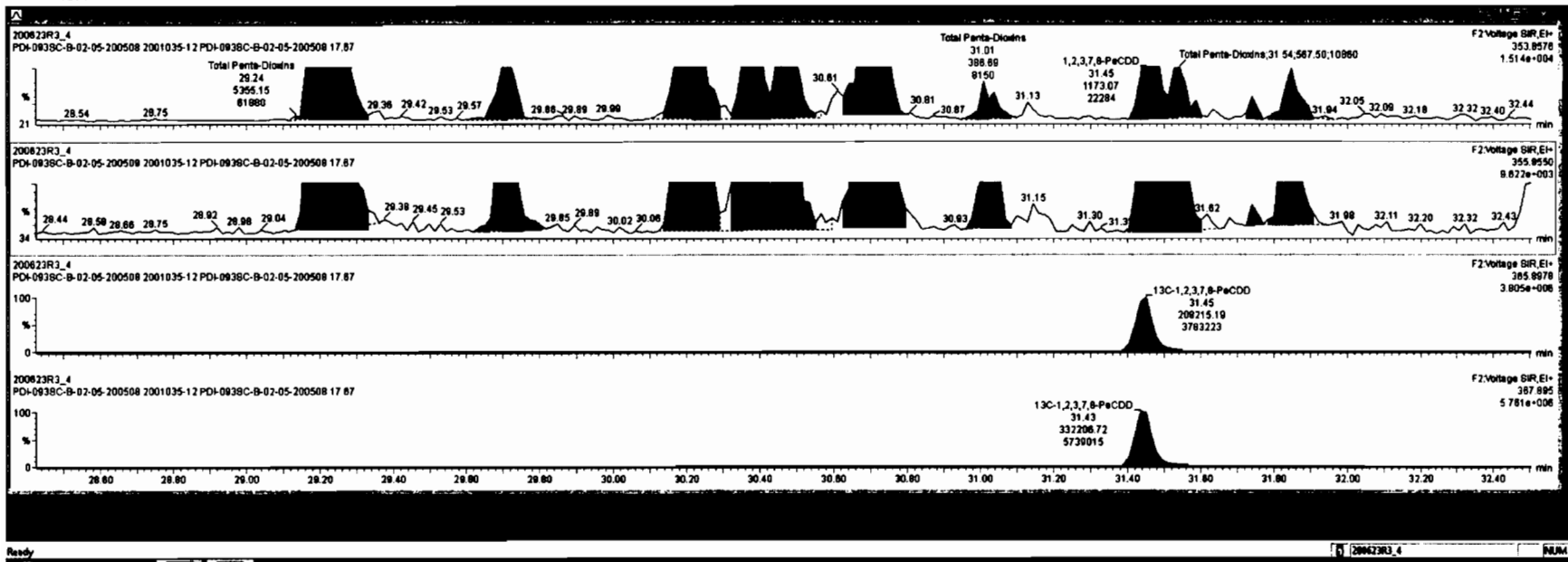
Sample No.	Sample Name	Sample Type	Sample Date	Sample Time	Sample Location	Sample Depth	Sample Volume	Sample Weight	Sample Concentration	Sample Recovery	Sample Comments	
5	Total Penta-Dioxins						1.309e3	1.812e3	0.77	YES	1.1900	0.00000
6	Total Penta-Dioxins						1.805e3	3.146e3	0.82	NO	2.0802	2.0802
7	Total Penta-Dioxins						3.887e2	5.859e2	0.85	NO	0.38788	0.38788





Sample	Method	Unit	Value	Unit	Value	Unit	Value
200623R3_4	Total Tetra-Dioxins		0.8893	10.083	24.82		8.88
200623R3_4	Total Hexa-Dioxins		0.8823	10.083	33.83		115
200623R3_4	Total Hepta-Dioxins		0.8838	10.083	37.84		1110
200623R3_4	Total Tetra-Furans		0.7510	10.083	23.81		324
200623R3_4	1st Furic, Penta-Furans		0.8825	10.083	27.58		48.4
200623R3_4	Total Penta-Furans		0.8825	10.083	28.27		405
200623R3_4	Total Hexa-Furans		0.8341	10.083	33.58		538
200623R3_4	Total Mixture (Sum)		0.8734	10.083	33.83		537

Sample	Method	Unit	Value	Unit	Value	Unit	Value
200623R3_4	Total Penta-Dioxins		30.46	1.388e3	1.812e3	0.77	YES
200623R3_4	Total Penta-Dioxins		30.87	1.828e3	3.148e3	0.82	NO
200623R3_4	Total Penta-Dioxins		31.01	3.887e2	5.958e2	0.85	NO



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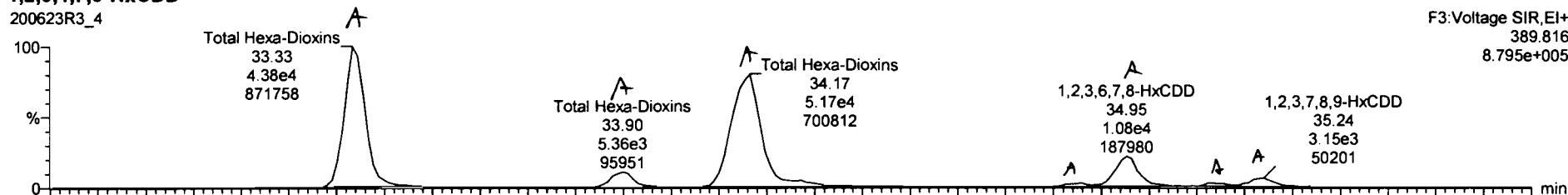
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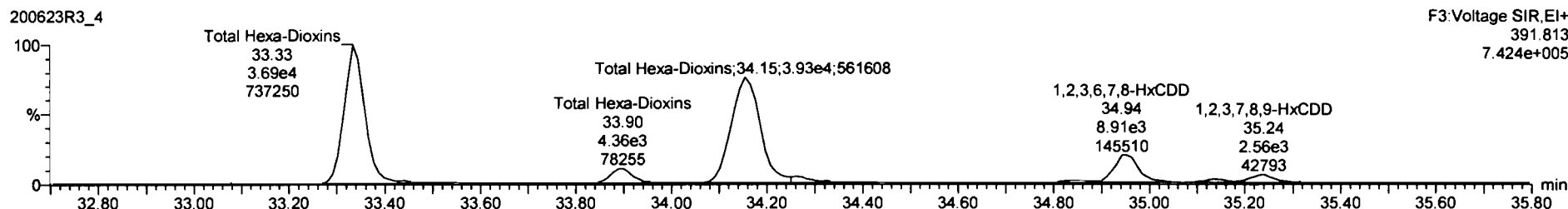
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1,2,3,4,7,8-HxCDD

200623R3_4



200623R3_4

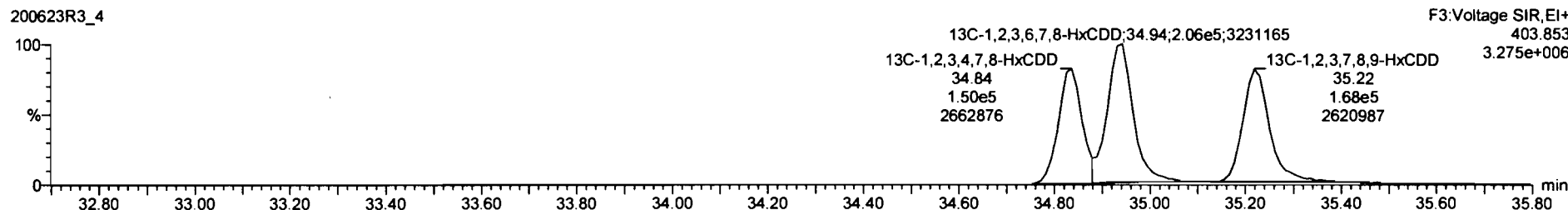


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200623R3_4



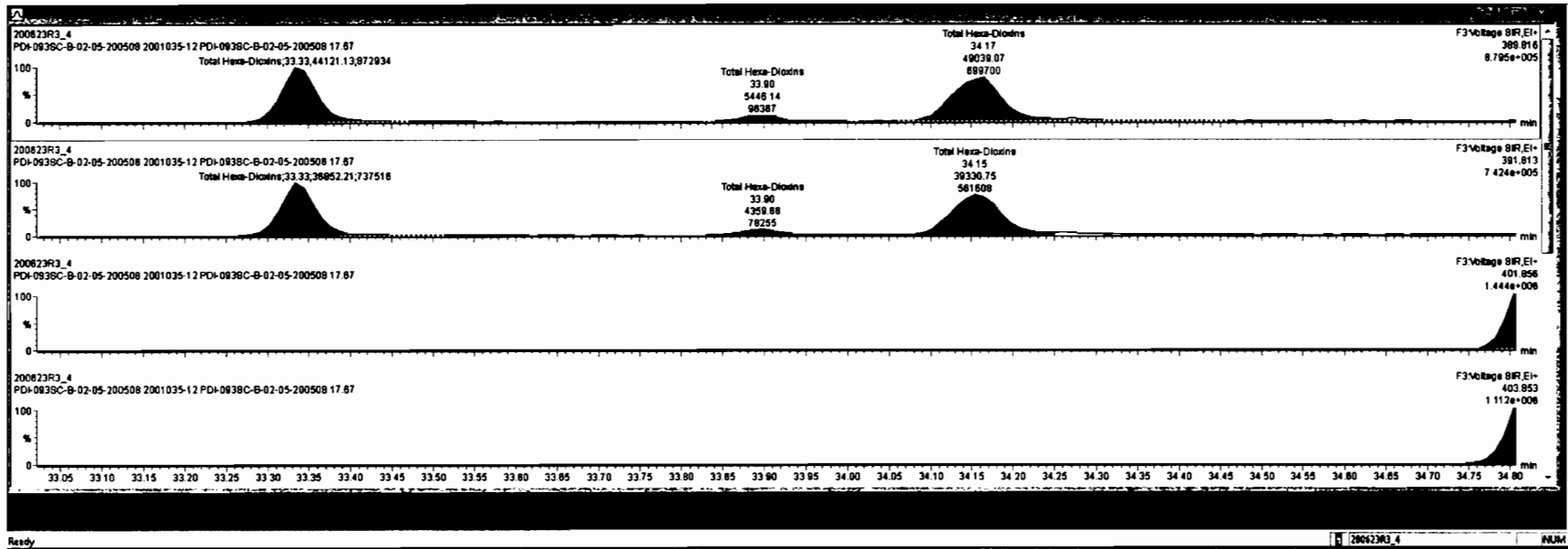
200623R3_4





Peak	Retention Time	Area	Height	Width	Integration	Response	Concentration	Concentration
39	Total Tetra-Dioxins	0.8603	10.083	24.82			8.86	0.104
40	Total Penta-Dioxins	0.8091	10.083	28.86			16.0	0.112
41	Total Hexa-Dioxins	0.8639	10.083	37.84			1110	1.20
42	Total Hepta-Dioxins	0.7510	10.083	23.81			324	0.353
43	Total Tetra-Furans	0.8625	10.083	27.58			48.4	0.2013
44	Total Penta-Furans	0.8625	10.083	28.27			405	0.380
45	Total Hexa-Furans	0.5341	10.083	33.95			536	0.380
46	Total Mono-Benzofurans	0.8954	10.083	37.93			600	0.641

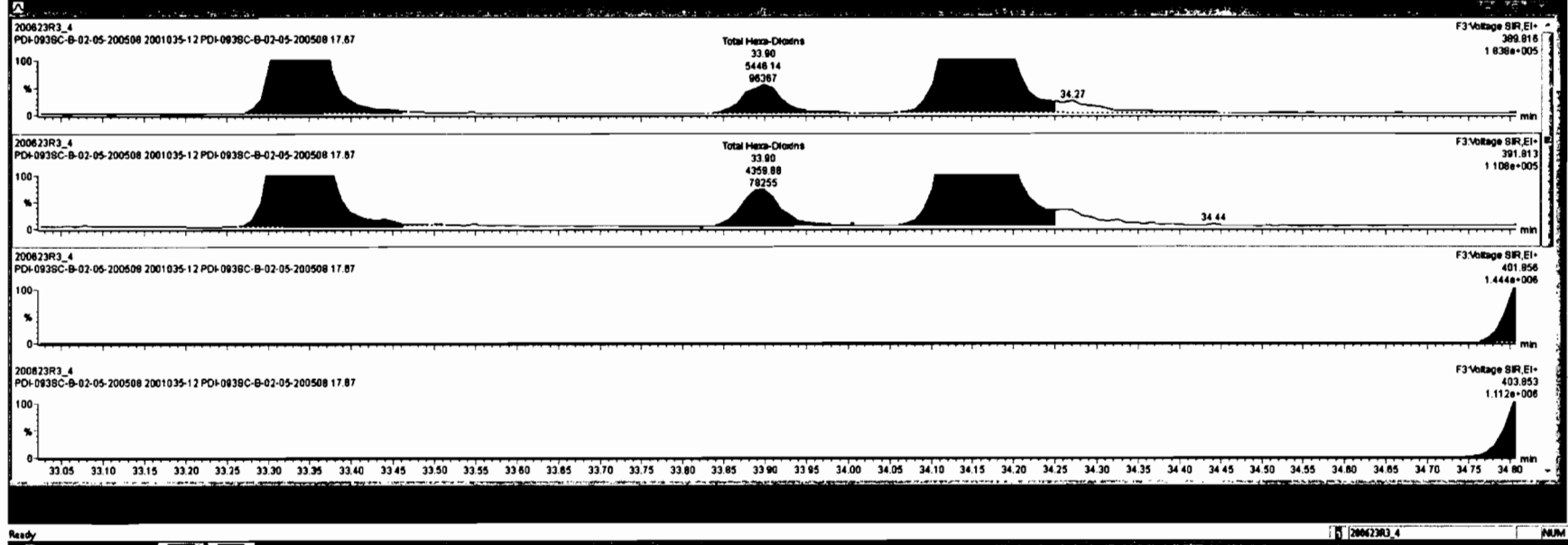
Peak	Retention Time	Area	Height	Width	Integration	Response	Concentration	Concentration
1	Total Hexa-Dioxins	33.33	4.412e4	3.895e4	1.20	NO	45.452	45.452
2	Total Hexa-Dioxins	33.90	5.449e3	4.390e3	1.25	NO	5.9042	5.9042
3	Total Hexa-Dioxins	34.17	4.804e4	3.833e4	1.25	NO	49.804	49.804
4	1,2,3,4,7,8-HxCDD	34.86	1.062e3	8.099e2	1.31	NO	1.0513	1.0513





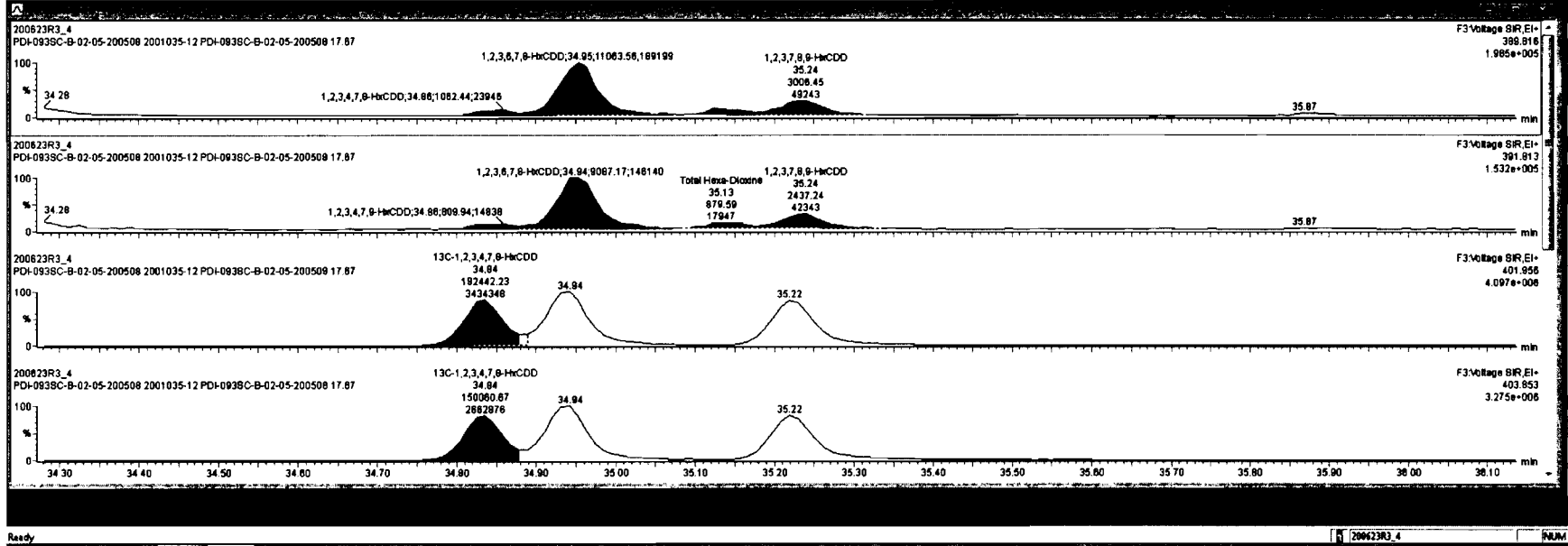
RTN	Sample	Area	Height	Area%	Height%	Area	Height	Area%	Height%
29	Total Tetra-Chloro	0.0953	10.083	24.42		6.98		0.104	8.49
30	Total Penta-Chloro	0.8091	10.083	29.99		18.0		0.112	17.7
32	Total Hexa-Chloro	0.8838	10.083	37.84		1110		1.20	1110
33	Total Tetra-Furane	0.7510	10.083	23.81		324		0.363	344
34	1st Func. Penta-Furane	0.8825	10.083	27.99		48.4		0.0213	48.4
35	Total Penta-Furane	0.8825	10.083	28.27		405		0.380	409
36	Total Hexa-Furane	0.8341	10.083	33.98		536		0.380	537

RTN	Sample	RT	Alt Peak	Height	Area	Area%	Height%	Area	Height	Area%	Height%
1	Total Hexa-Chloro	33.23	4.412e4	3.895e4	1.20	NO	45.452	45.452			
2	Total Hexa-Chloro	33.80	5.448e3	4.390e3	1.25	NO	5.5042	5.5042			
3	Total Hexa-Chloro	34.17	4.804e4	3.833e4	1.25	NO	48.804	48.804			
4	1,2,3,4,7,8-HxCDD	34.88	1.082e3	8.099e2	1.31	NO	1.0513	1.0513			



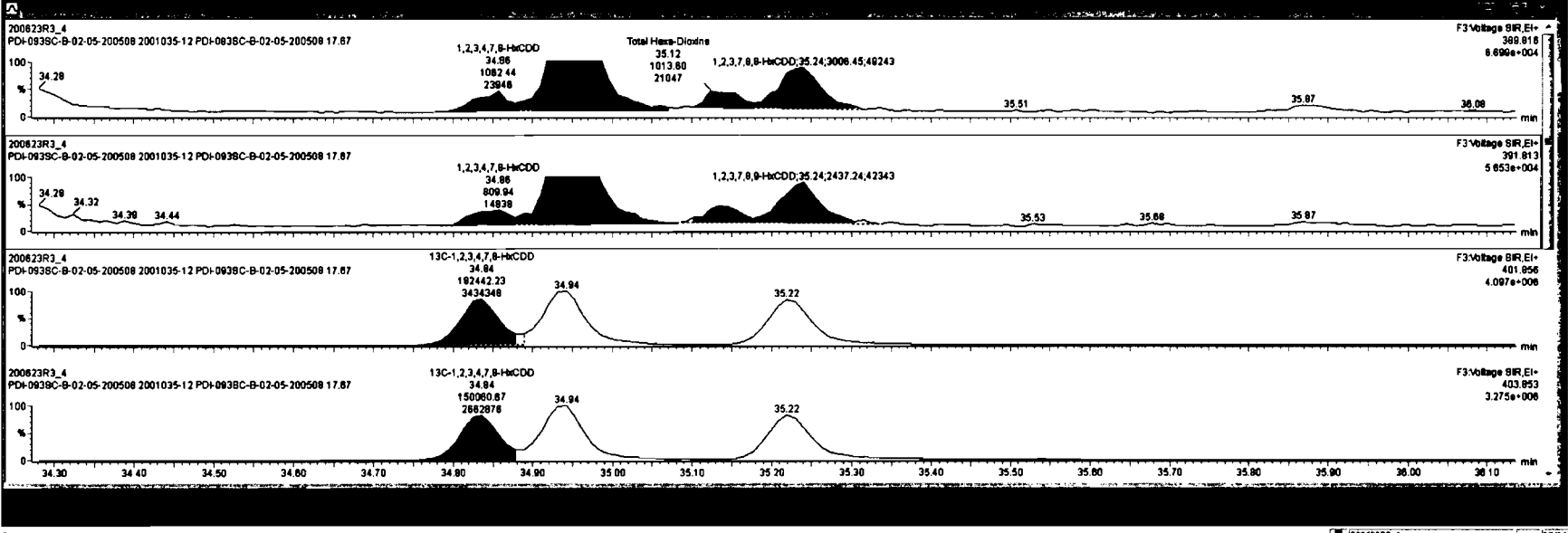
RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
26	Total Tetra-Dioxins			0.0093	10.063	24.82				6.86	0.104	6.49						
48	Total Penta-Dioxins			0.9081	10.063	29.96				16.0	0.112	17.7						
62	Total Hepta-Dioxins			0.6638	10.063	37.64				1110	1.20	1110						
43	Total Tetra-Furans			0.7510	10.063	23.81				324	0.353	344						
65	Total Penta-Furans			0.8625	10.063	27.58				48.4	0.2013	48.4						
66	Total Hexa-Furans			0.8625	10.063	29.27				405	0.380	405						
68	Total Hexa-Furans			0.9341	10.063	33.56				536	0.380	537						
67	Total Methyl-Dioxins			0.9774	10.063	37.64				674	0.764	674						

RT	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
33.33	Total Hexa-Dioxins	4.412e4	3.895e4	1.20	NO	45.452	45.452					
33.80	Total Hexa-Dioxins	5.448e3	4.380e3	1.25	NO	5.5042	5.5042					
34.17	Total Hexa-Dioxins	4.904e4	3.833e4	1.25	NO	48.804	48.804					
34.86	1,2,3,4,7,8-HxCDD	1.082e3	8.099e2	1.31	NO	1.0513	1.0513					



Sample	Concentration	Area	Height	Width	Retention	Response	Integration
100	Total Tetra-Dioxine	0.8883	10.083	24.82		6.88	0.104 6.49
100	Total Penta-Dioxine	0.8081	10.083	29.86		18.0	0.112 17.7
100	Total Hexa-Dioxine	0.8838	10.083	37.84		1110	1.20 1110
100	Total Tetra-Furane	0.7910	10.083	23.91		324	0.263 344
100	Total Furo-Furane-Furane	0.8825	10.083	27.58		48.4	0.021 48.4
100	Total Penta-Furane	0.8825	10.083	29.27		405	0.380 409
100	Total Hexa-Furane	0.8341	10.083	33.58		536	0.380 537

Sample	Concentration	Area	Height	Width	Retention	Response	Integration
1	Total Hexa-Dioxine	33.33	4.412e4	3.885e4	1.20	NO	45.452 45.452
2	Total Hexa-Dioxine	33.80	5.446e3	4.380e3	1.25	NO	5.5042 5.5042
3	Total Hexa-Dioxine	34.17	4.904e4	3.933e4	1.25	NO	48.804 48.804
4	1,2,3,7,8-HxCDD	34.88	1.082e3	8.098e2	1.21	NO	1.0513 1.0513



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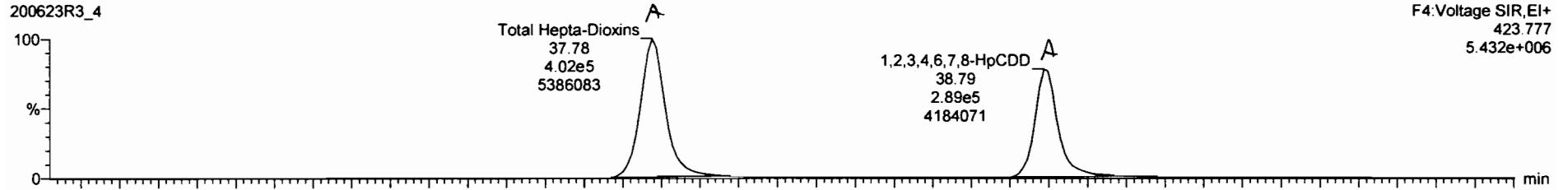
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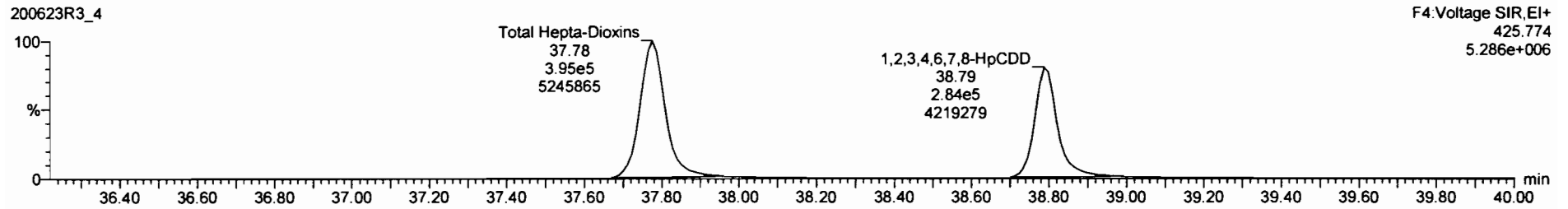
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1,2,3,4,6,7,8-HpCDD

200623R3_4

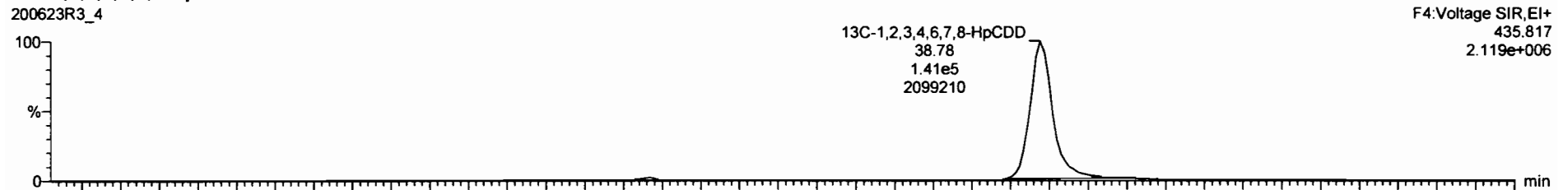


200623R3_4

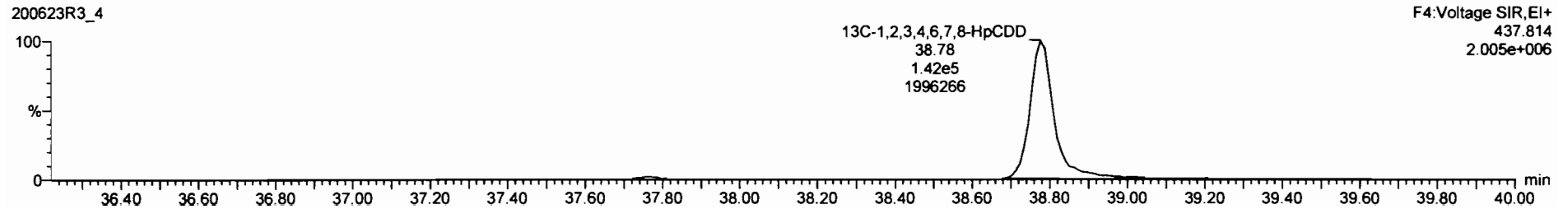


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200623R3_4

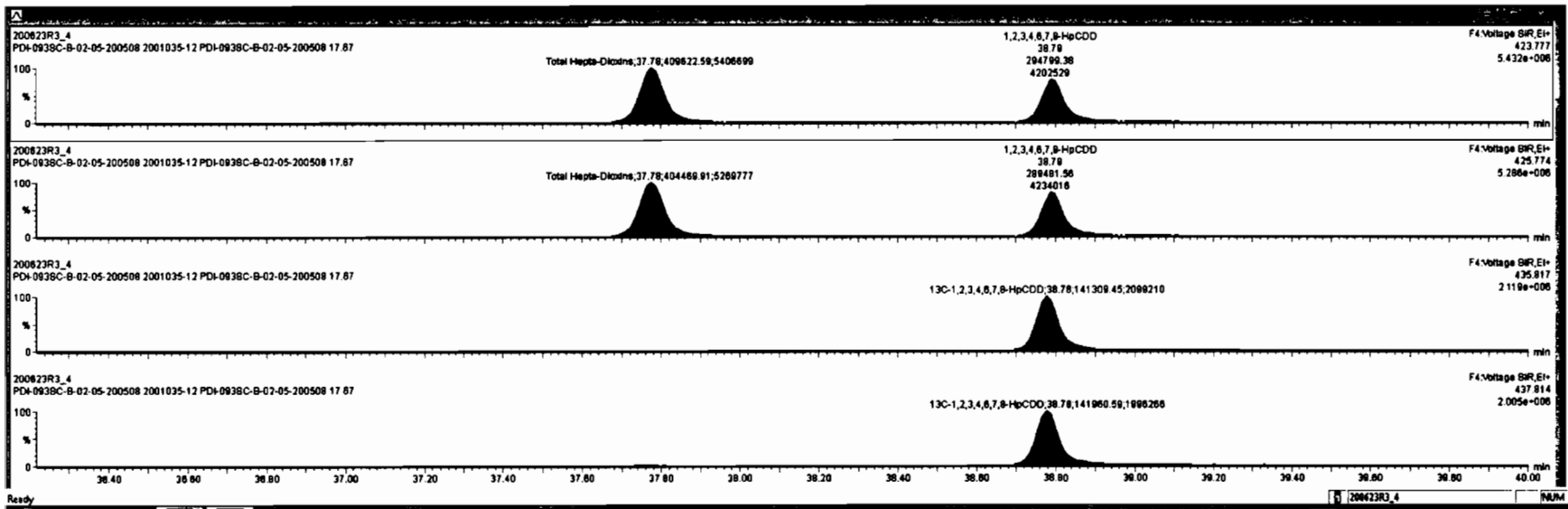


200623R3_4



Peak	Area	Height	Width	Retention	Abundance	Mass	Label
38	0.8983	10.083	24.82	37.78	6.86	0.104	8.48
48	0.8081	10.083	28.96	38.78	18.0	0.112	17.7
49	0.8623	10.083	33.63	38.78	115	0.214	115
43	0.7510	10.083	23.81	37.78	324	0.363	344
44	0.8625	10.083	27.58	38.78	48.4	0.0213	48.4
45	0.8625	10.083	28.27	38.78	405	0.380	408
46	0.8241	10.083	33.95	38.78	535	0.380	537

Mass	Area	Height	Width	Retention	Abundance	Label
1	37.78	4.085e5	4.045e5	1.01	681.13	681.13
2	38.78	2.848e5	2.895e5	1.02	474.50	474.50



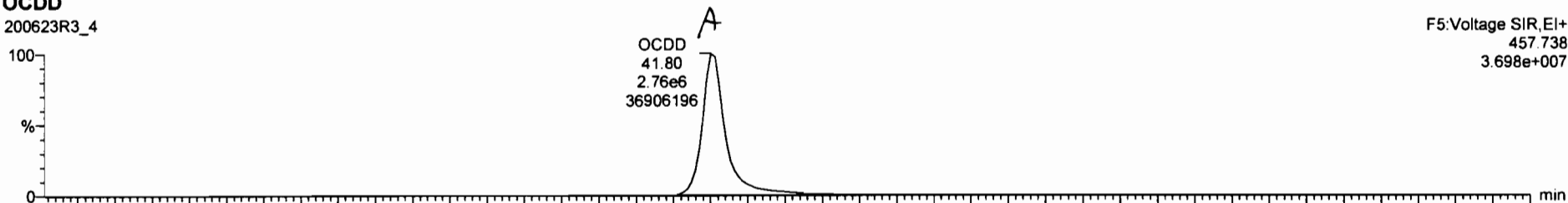
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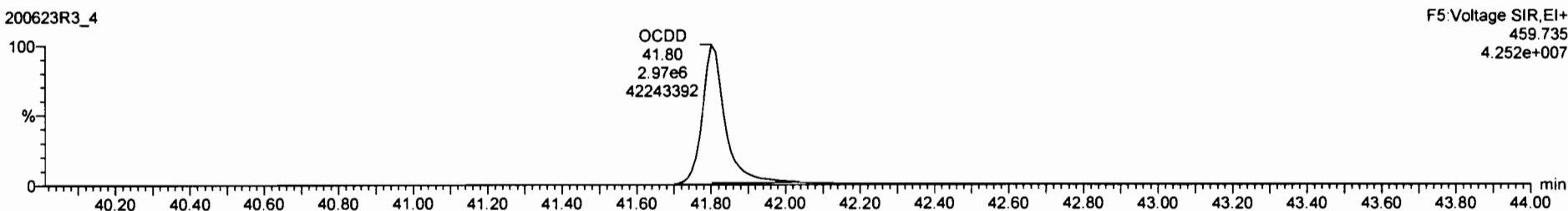
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OCDD

200623R3_4

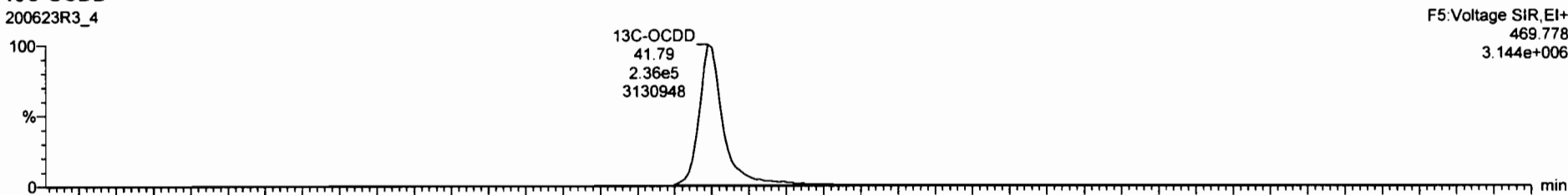


200623R3_4

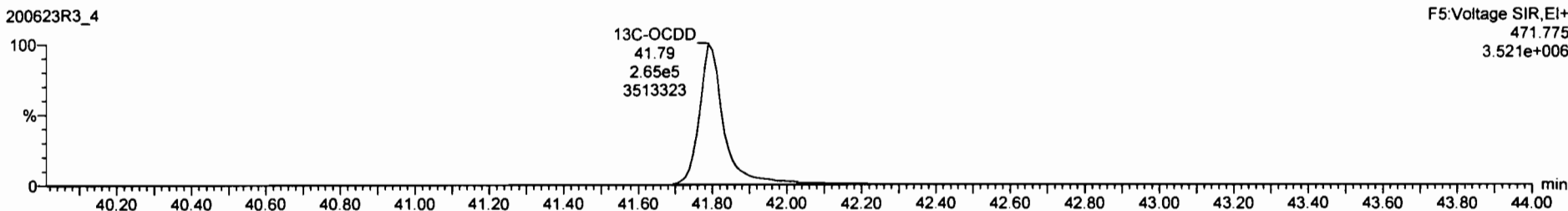


13C-OCDD

200623R3_4

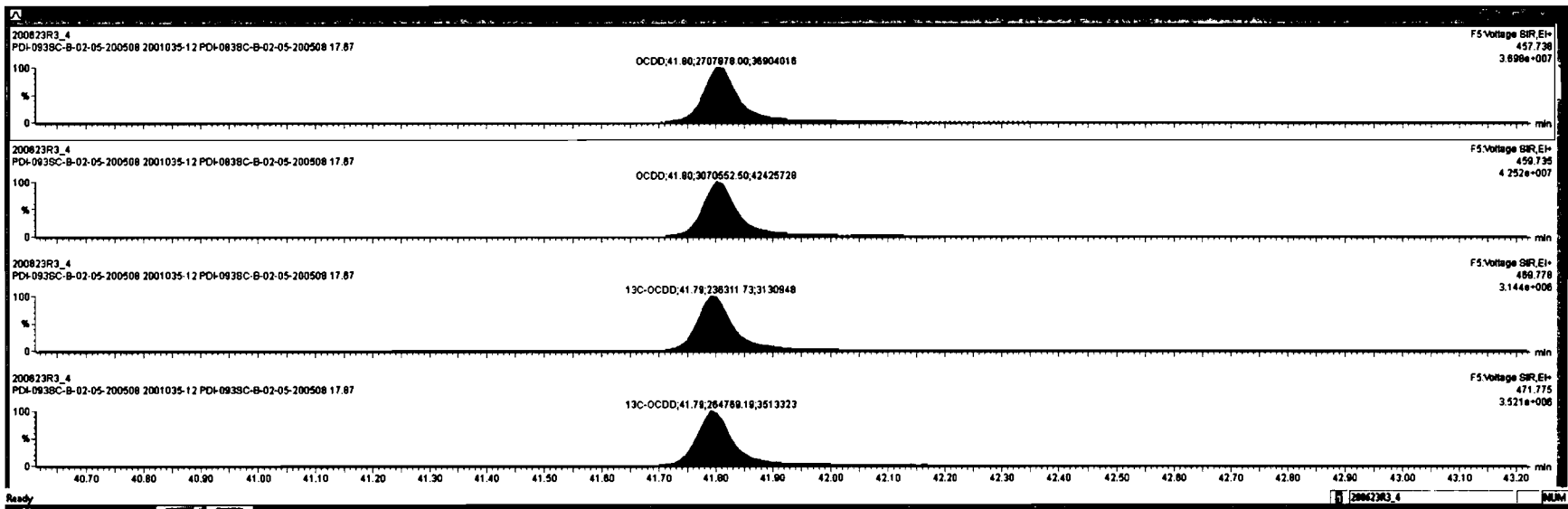


200623R3_4



Peak	Retention Time	Area	Height	Width	Resolution	Signal	Integration	Integration	Integration	Integration	Integration	
1	2.37	3.31e5	0.78	NO	0.7510	10.083	25.80	25.80	1.001	113	0.353	113
2	1.2,3,7,8-PeCDF	5.30e5	1.53	NO	0.8625	10.083	30.19	30.17	1.000	142	0.366	142
3	2,3,4,7,8-PeCDF	3.35e6	1.58	NO	0.8348	10.083	31.19	31.16	1.000	89.5	0.338	89.5
4	1,2,3,4,7,8-HxCDF	5.14e5	1.20	NO	0.8845	10.083	33.85	33.97	1.001	240	0.381	240
5	1,2,3,6,7,8-HxCDF	1.77e5	1.22	NO	0.8882	10.083	34.08	34.08	1.000	88.9	0.327	88.9
6	1,2,3,4,6,7,8-HxCDF	4.31e4	1.19	NO	0.9341	10.083	34.70	34.88	1.000	20.2	0.378	20.2
7	1,2,3,7,8-HxCDF	1.43e4	1.13	NO	0.8707	10.083	35.59	35.61	1.001	8.40	0.587	8.40

Peak	Retention Time	Area	Height	Width	Resolution	Signal	Integration	Integration	Integration	Integration
8	41.80	36904016	457.738	3.896e+007						
9	41.80	42425728	450.735	4.252e+007						
10	41.78	3130948	480.778	3.144e+006						
11	41.78	3513323	471.775	3.521e+006						

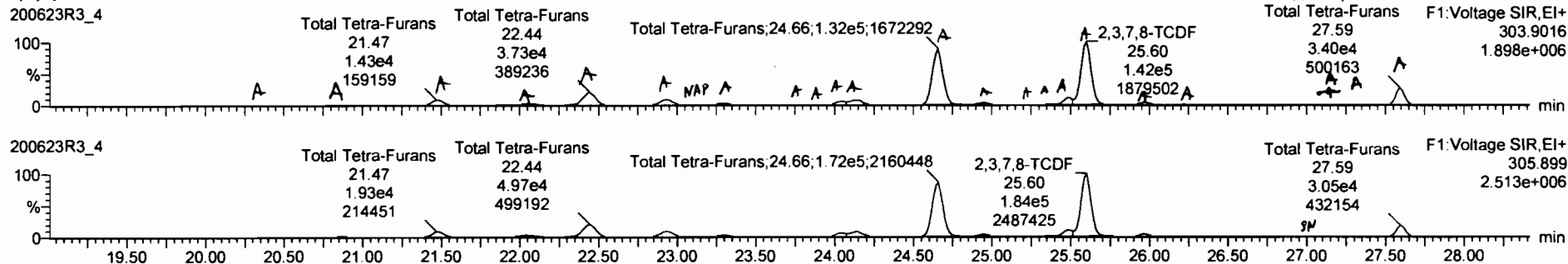


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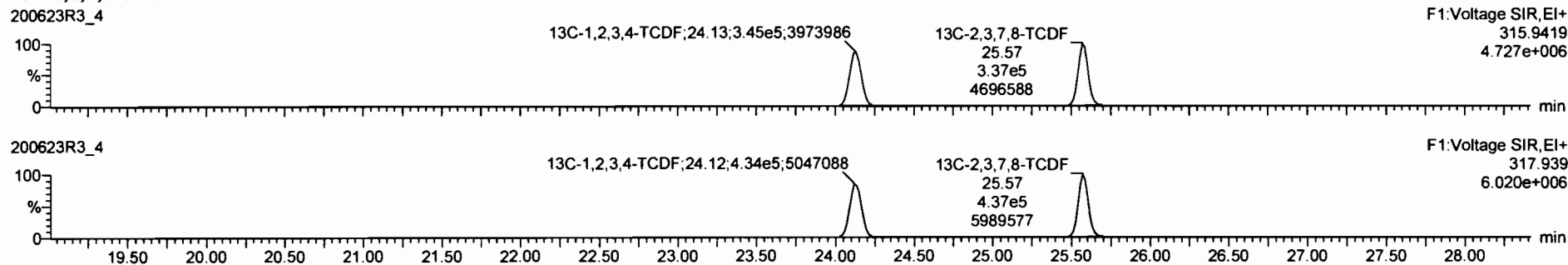
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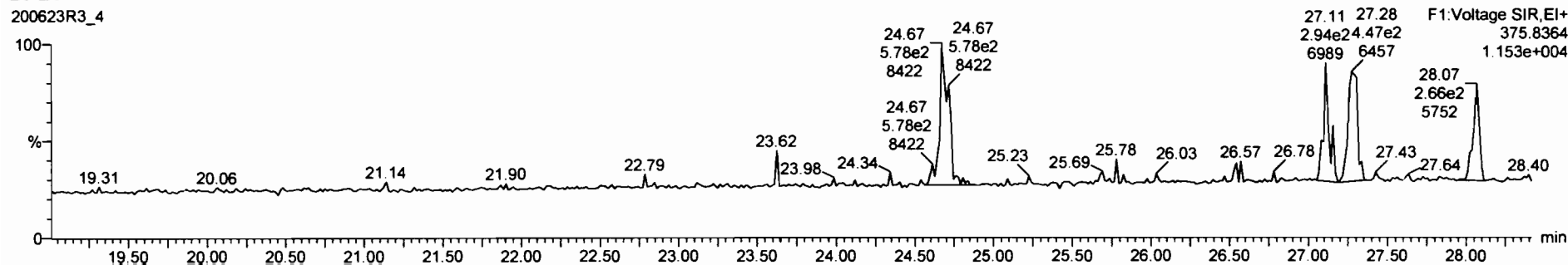
2,3,7,8-TCDF



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

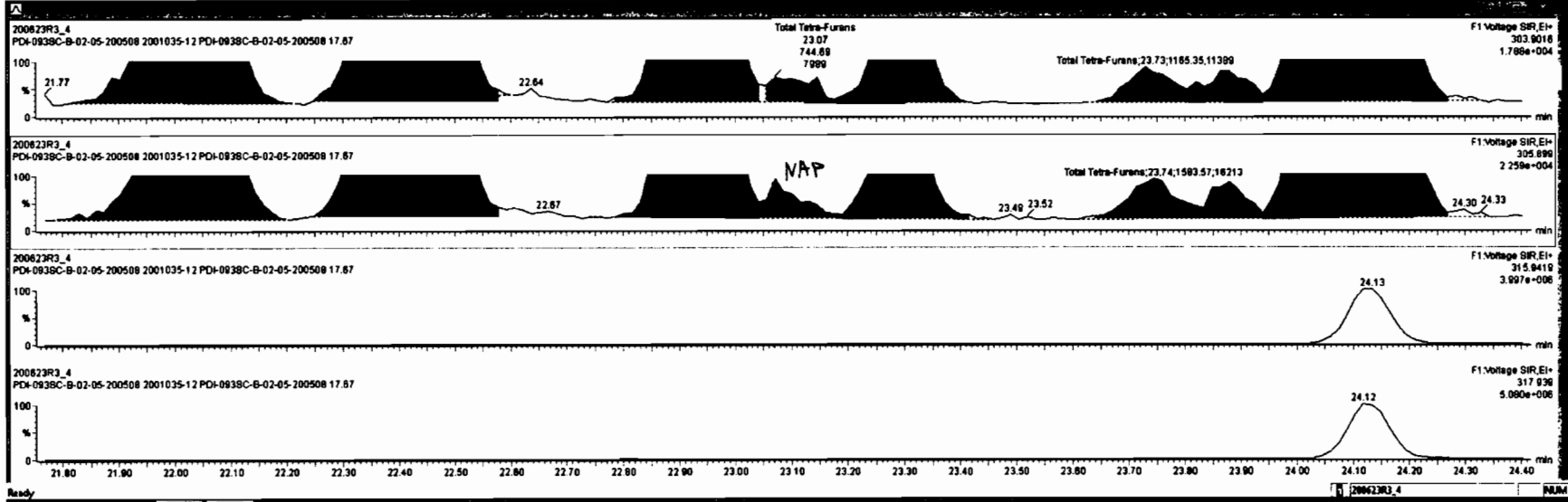


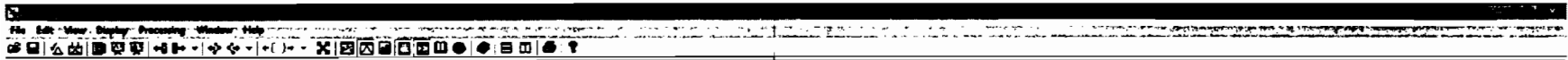
DPE1



64	1st Func. Penta-Furans			0.8625	10.083	27.56		48.4	0.0313	48.4
65	Total Penta-Furans			0.8625	10.083	29.27		405	0.360	409
66	Total Hexa-Furans			0.8341	10.083	33.56		536	0.360	537
67	Total Hepta-Furans			0.8734	10.083	37.83		622	0.754	625
68	PFK1									
69	PFK2									
70	PFK3									
71	PFK4									

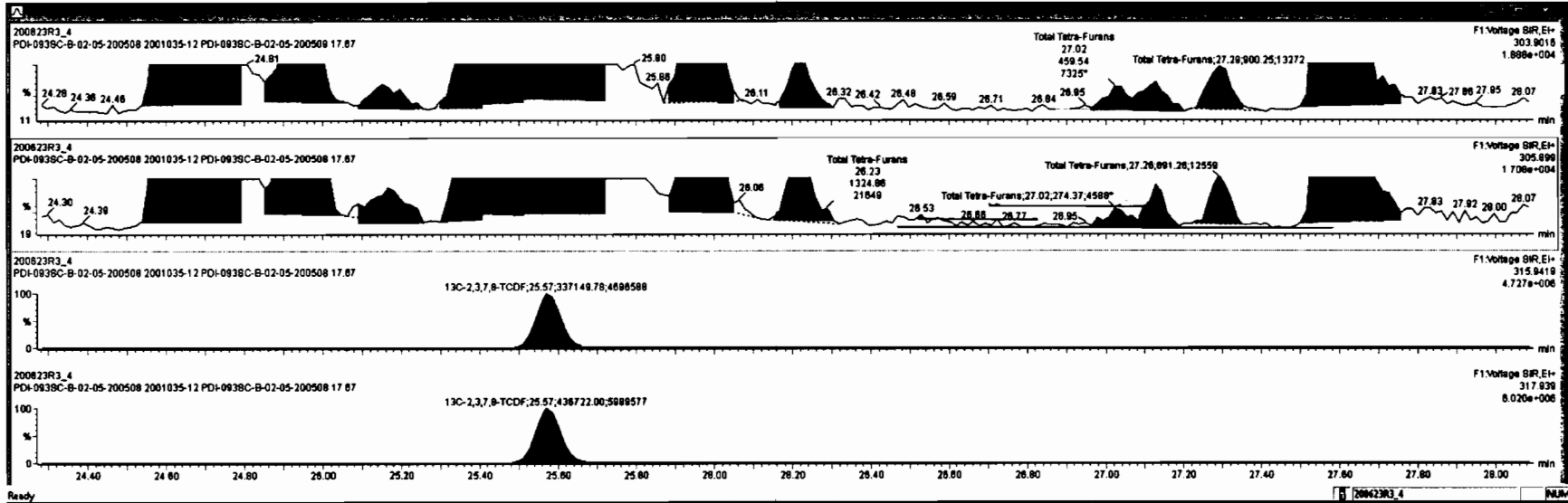
68	Total Tetra-Furans	20.35	7.810e2	1.036e3	0.73	NO	0.81455	0.81455
69	Total Tetra-Furans	20.87	2.502e3	3.482e3	0.72	NO	2.0482	2.0482
70	Total Tetra-Furans	21.47	1.427e4	1.945e4	0.73	NO	11.532	11.532
71	Total Tetra-Furans	22.04	7.208e3	9.850e3	0.75	NO	5.7643	5.7643
72	Total Tetra-Furans	22.44	3.783e4	5.036e4	0.75	NO	30.088	30.088
73	Total Tetra-Furans	22.94	1.887e4	2.182e4	0.76	NO	13.108	13.108
74	Total Tetra-Furans	23.07	7.447e2	1.048e3	0.71	NO	0.81348	0.81348





Peak	Ret Time	Area	Height	Width	Height	Area	Height	Width
66	24.81	0.8625	10.083	27.58	48.4	0.0213	48.4	
Total Penta-Furans								
		0.8625	10.083	26.27	405	0.380	409	
Total Hexa-Furans								
		0.8241	10.083	33.58	536	0.380	537	
Total Hepta-Furans								
		0.8734	10.083	37.83	822	0.764	825	
67								
68								
69								
70								

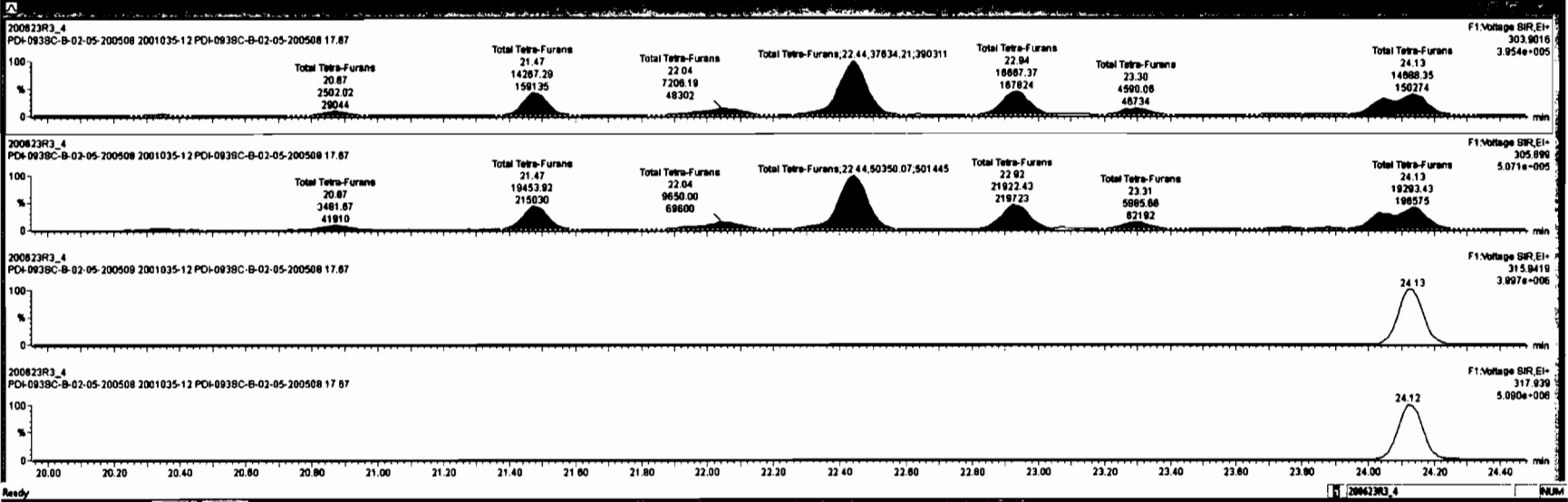
Peak	Ret Time	Area	Height	Width	Height	Area	Height	Width
71	20.35	7.810e2	1.035e3	0.73	ND	0.81455	0.81455	
72	20.67	2.502e3	3.482e3	0.72	ND	2.0462	2.0462	
73	21.47	1.437e4	1.945e4	0.73	ND	11.532	11.532	
74	22.04	7.208e3	9.850e3	0.75	ND	5.7843	5.7843	
75	22.44	3.783e4	5.035e4	0.75	ND	30.089	30.089	
76	22.94	1.887e4	2.162e4	0.78	ND	13.198	13.198	
77	23.30	4.580e3	5.988e3	0.77	ND	3.8188	3.8188	





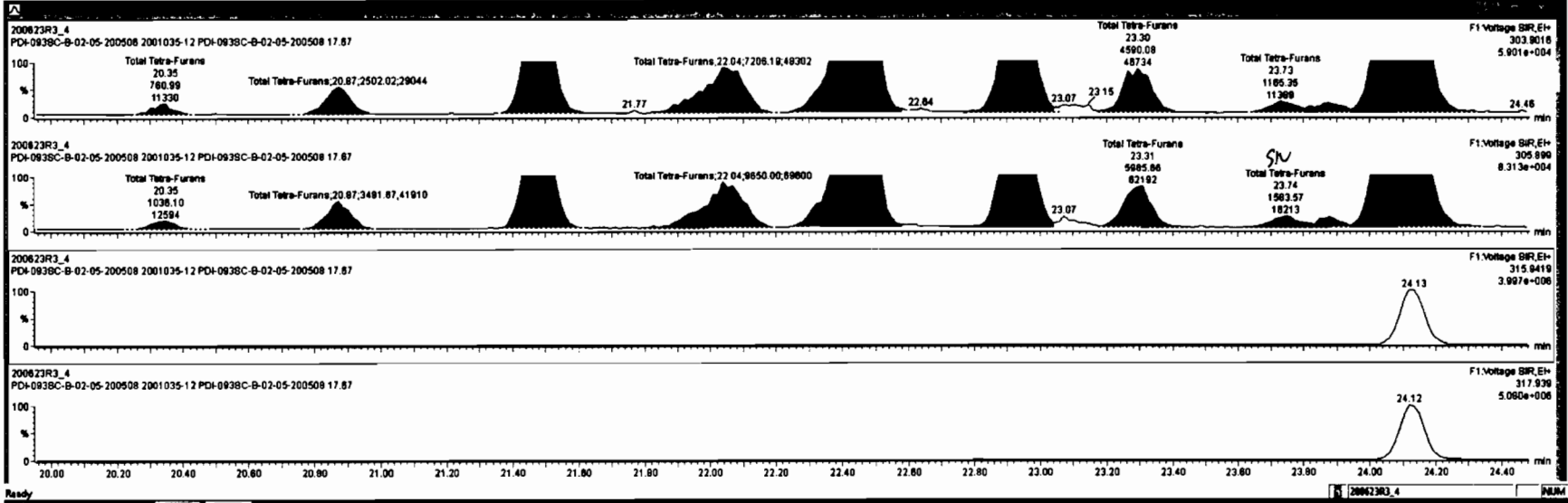
Peak	Name	Area	Height	Width	Retention	Integration	Integration
46	Total Penta-Furans	0.8825	10.083	27.58	48.4	0.0313	48.4
47	Total Penta-Furans	0.8825	10.083	28.27	405	0.380	408
48	Total Hexa-Furans	0.8241	10.083	33.58	536	0.380	537
49	Total Hepta-Furans	0.8734	10.083	37.83	622	0.754	625
50	PFH1						
51	PFH2						
52	PFH3						
53	PFH4						

Peak	Name	Area	Height	Width	Retention	Integration	Integration
1	Total Tetra-Furans	20.35	7.810e2	1.030e3	0.73	NO	0.81455
2	Total Tetra-Furans	20.87	2.902e3	3.482e3	0.72	NO	2.0482
3	Total Tetra-Furans	21.47	1.427e4	1.945e4	0.73	NO	11.532
4	Total Tetra-Furans	22.04	7.208e3	8.850e3	0.75	NO	5.7843
5	Total Tetra-Furans	22.44	3.763e4	5.035e4	0.75	NO	30.088
6	Total Tetra-Furans	22.94	1.887e4	2.182e4	0.78	NO	13.198
7	Total Tetra-Furans	23.30	4.580e3	5.988e3	0.77	NO	3.8188



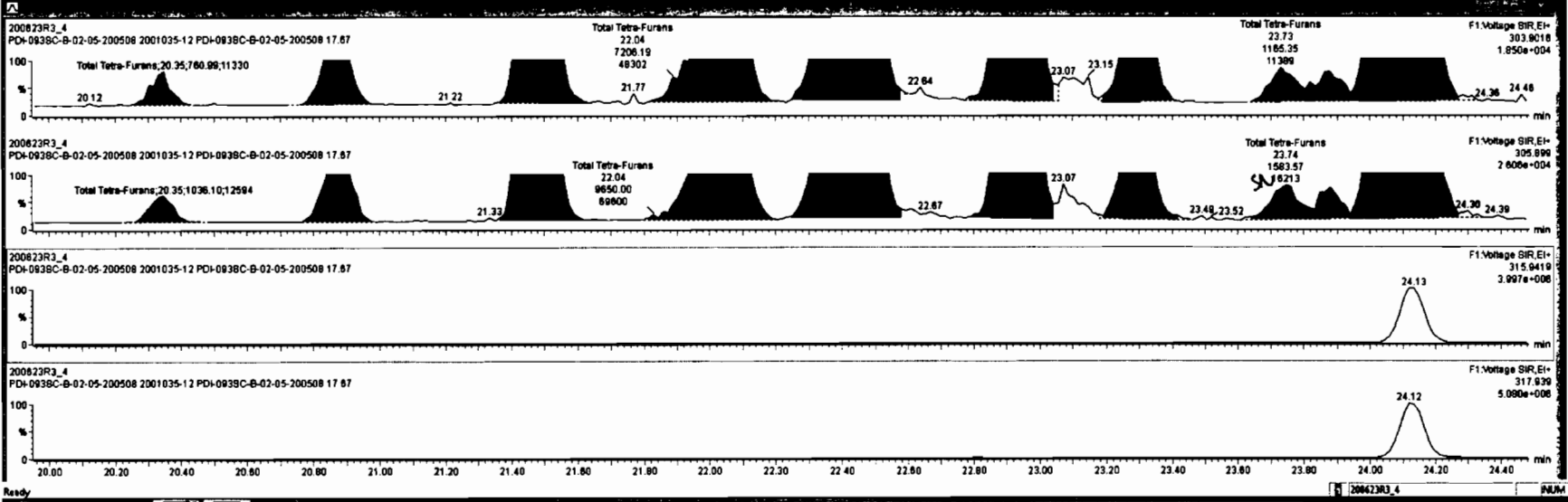
664	Total Func. Penta-Furans			0.8825	10.083	27.50		48.4		0.0315	48.4
665	Total Penta-Furans			0.8825	10.083	28.27		405		0.360	409
666	Total Hexa-Furans			0.9341	10.083	33.56		536		0.360	537
667	Total Hepta-Furans			0.8734	10.083	37.83		622		0.754	626
668	PFM1										
669	PFM2										
670	PFM3										
671	PFM4										

Peak	Area	Height	Width	Retention	Integration	Integration	Integration
1	20.35	7.810e2	1.030e3	0.73	NO	0.81455	0.81455
2	20.87	2.502e3	3.482e3	0.72	NO	2.0482	2.0482
3	21.47	1.427e4	1.845e4	0.73	NO	11.532	11.532
4	22.04	7.208e3	9.850e3	0.75	NO	5.7843	5.7843
5	22.44	3.783e4	5.035e4	0.75	NO	30.089	30.089
6	22.84	1.887e4	2.192e4	0.76	NO	13.186	13.186
7	23.30	4.580e3	5.886e3	0.77	NO	3.8186	3.8186



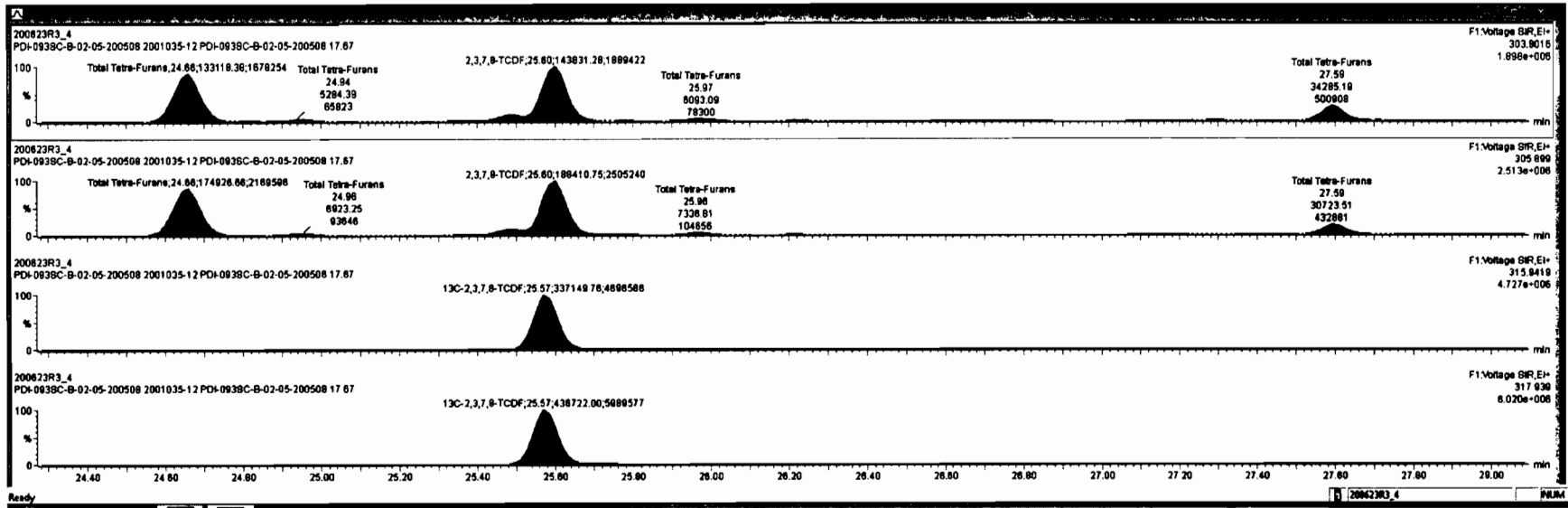
Peak	Ret. Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	20.12	780.99	11330										
2	21.22												
3	21.77												
4	22.64												
5	23.07												
6	23.15												
7	24.38												
8	24.48												

Peak	Ret. Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	20.35	7810e2	1.039e3	0.73	NO	0.81455	0.81455						
2	20.87	2.502e3	3.482e3	0.72	NO	2.0462	2.0462						
3	21.47	1.427e4	1.945e4	0.73	NO	11.532	11.532						
4	22.04	7.208e3	9.890e3	0.75	NO	5.7843	5.7843						
5	22.44	3.783e4	5.095e4	0.75	NO	30.089	30.089						
6	22.94	1.887e4	2.182e4	0.78	NO	13.198	13.198						
7	23.30	4.580e3	5.888e3	0.77	NO	3.8186	3.8186						



Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
477	1st Furoc. Penta-Furans	0.8625	10.083	27.59	48.4	0.0313	48.4
477	Total Penta-Furans	0.8625	10.083	28.27	408	0.380	408
478	Total Hexa-Furans	0.8341	10.083	33.58	538	0.380	537
478	Total Hepta-Furans	0.8734	10.083	37.83	622	0.784	625
479	PFH1						
479	PFH2						
479	PFH3						
479	PFH4						

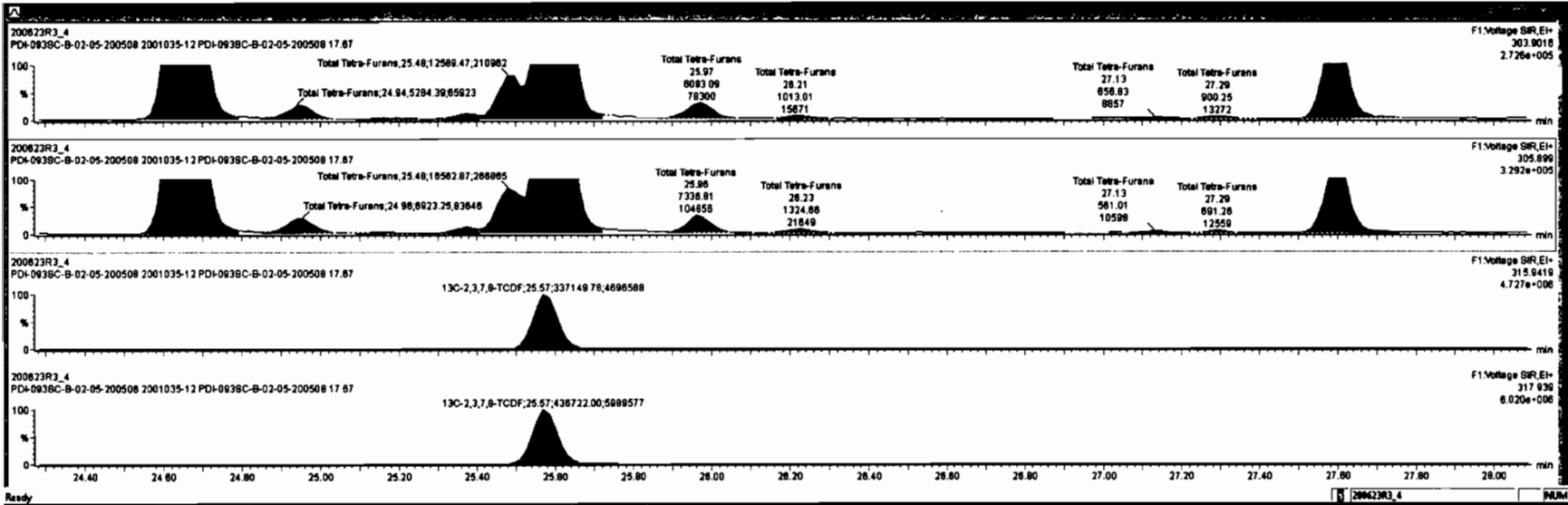
Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
1	Total Tetra-Furans	20.35	7.910e2	1.030e3	0.73	NO	0.81455
2	Total Tetra-Furans	20.87	2.302e3	3.482e3	0.72	NO	2.0462
3	Total Tetra-Furans	21.47	1.427e4	1.945e4	0.73	NO	11.532
4	Total Tetra-Furans	22.04	7.209e3	9.850e3	0.75	NO	5.7843
5	Total Tetra-Furans	22.44	3.753e4	5.025e4	0.75	NO	30.088
6	Total Tetra-Furans	22.84	1.887e4	2.182e4	0.78	NO	13.198
7	Total Tetra-Furans	23.30	4.580e3	5.986e3	0.77	NO	3.8188





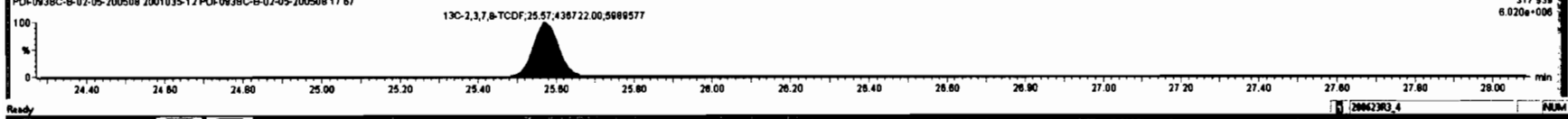
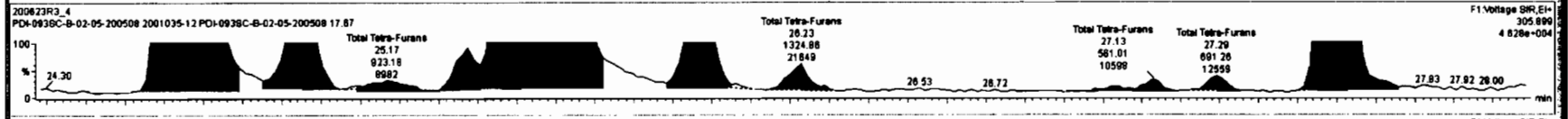
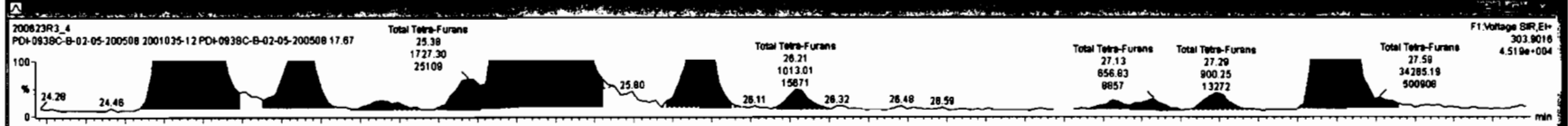
Area	Area%	Area	Area%	Area	Area%	Area	Area%
44.4	1st Func. Penta-Furans	0.8625	10.083	27.58	46.4	0.0213	46.4
46.5	Total Penta-Furans	0.8625	10.083	28.27	405	0.360	468
47.4	Total Hexa-Furans	0.8241	10.083	33.58	538	0.360	537
47.4	Total Hepta-Furans	0.8734	10.083	37.83	622	0.754	826
48.3	PFK1						
48.3	PFK2						
48.3	PFK3						
48.3	PFK4						

Area	Area%	Area	Area%	Area	Area%	Area	Area%
20.35	Total Tetra-Furans	7.810e2	1.330e3	0.73	ND	0.81455	0.81455
20.67	Total Tetra-Furans	2.302e3	3.482e3	0.72	ND	2.0462	2.0462
21.47	Total Tetra-Furans	1.437e4	1.945e4	0.73	ND	11.532	11.532
22.04	Total Tetra-Furans	7.209e3	9.850e3	0.75	ND	5.7843	5.7843
22.44	Total Tetra-Furans	3.763e4	5.035e4	0.75	ND	30.088	30.088
22.94	Total Tetra-Furans	1.887e4	2.182e4	0.78	ND	13.198	13.198
23.30	Total Tetra-Furans	4.580e3	5.980e3	0.77	ND	3.8188	3.8188



Peak	Ret. Time	Area	Height	Width	Height	Area	Height	Width
46	24.28	24.46	25.80	26.11	26.32	26.48	26.59	27.13
47	27.13	27.29	27.59	27.83	27.82	28.00		

Peak	Ret. Time	Area	Height	Width	Height	Area	Height	Width
48	28.11	28.32	28.48	28.59	27.13	27.29	27.59	27.83
49	27.13	27.29	27.59	27.83	27.82	28.00		



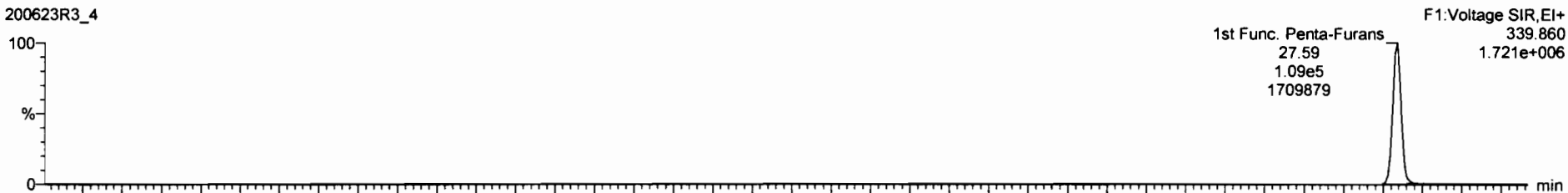
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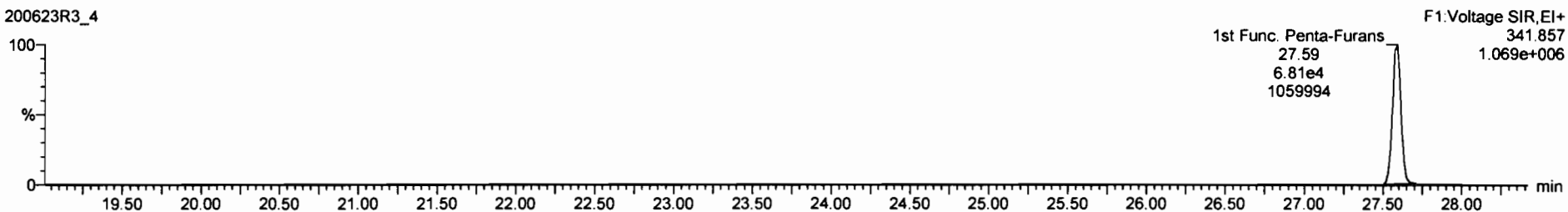
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1st Func. Penta-Furans

200623R3_4

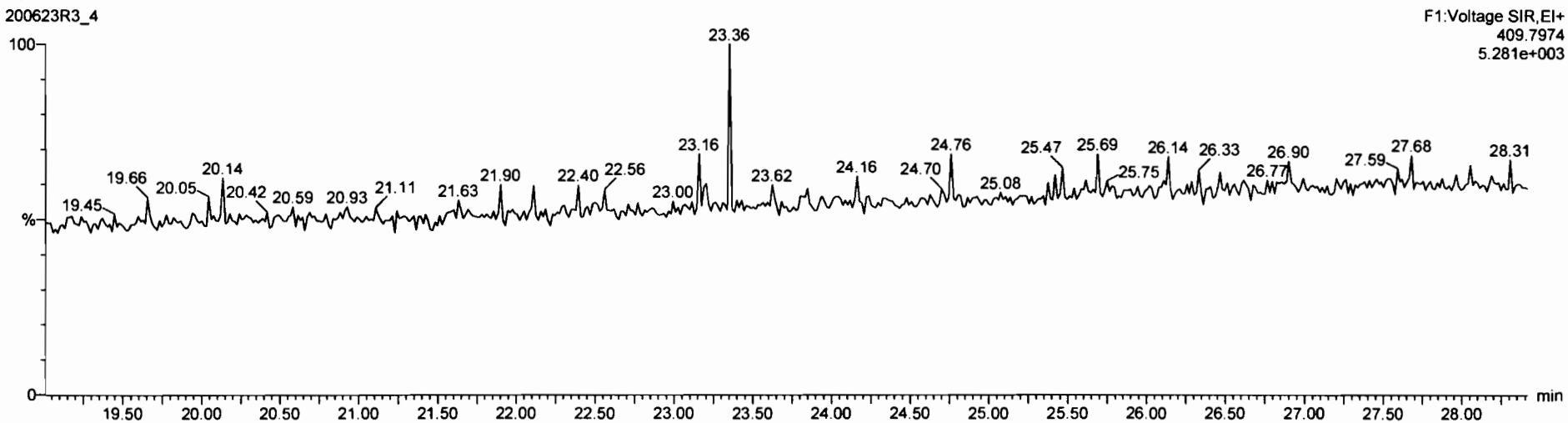


200623R3_4



DPE6

200623R3_4

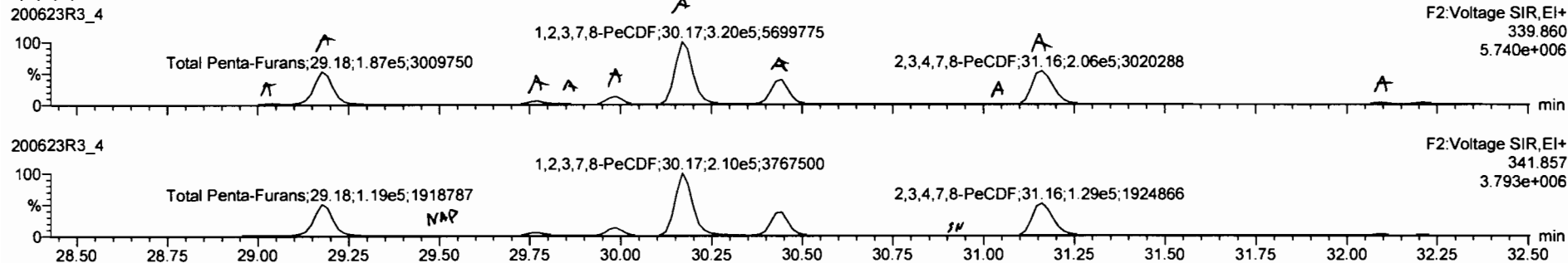


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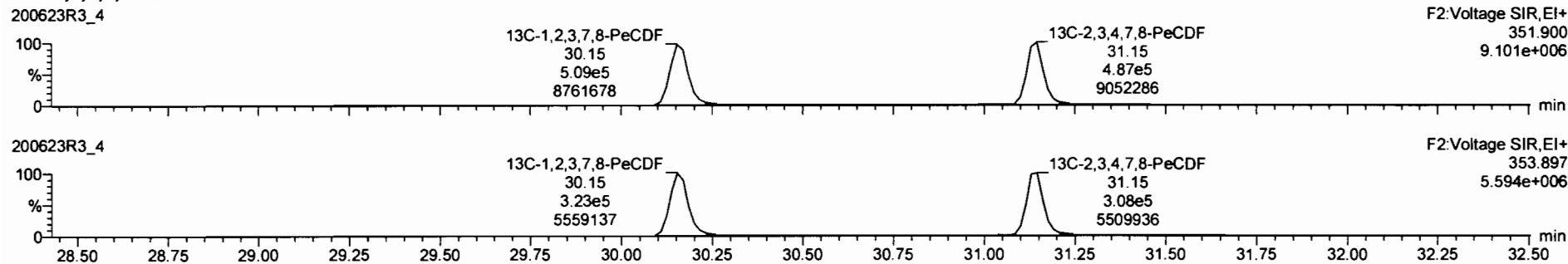
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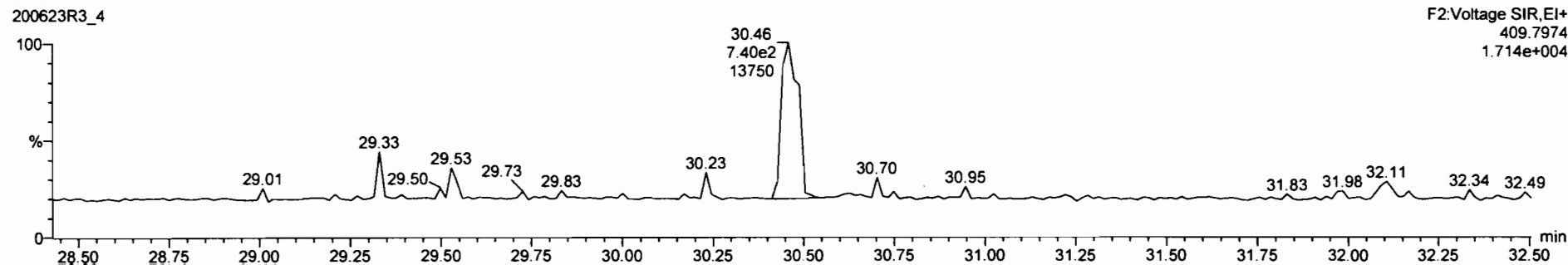
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13C-1,2,3,7,8-PeCDF

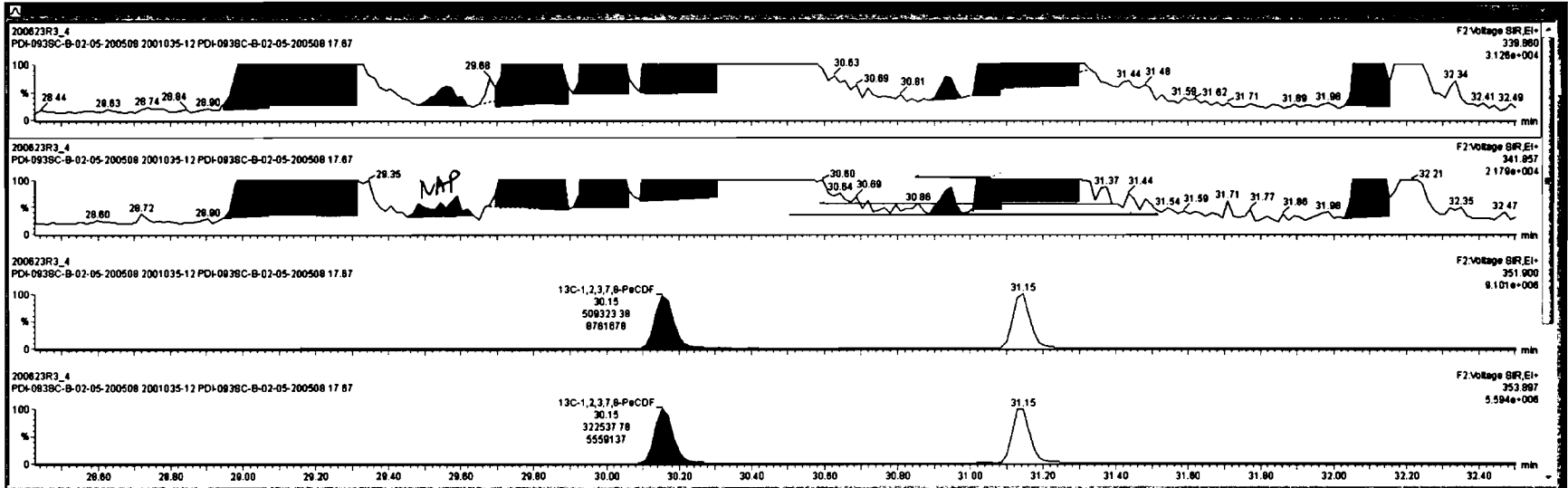


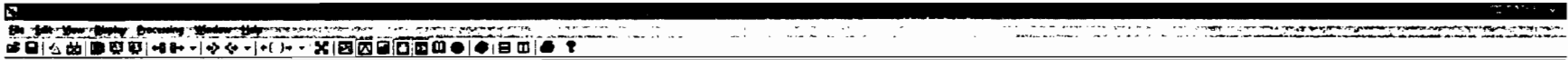
DPE2



Peak	Name	Area	Height	Width	Retention	Integration	Response	Concentration
46	Total Tetra-Furane	0.7510	10.083	23.81		327	0.353	348
46	Total Penta-Furane	0.8825	10.083	27.58		484	0.0313	484
47	Total Hexa-Furane	0.8341	10.083	33.58		536	0.380	537
47	Total Hepta-Furane	0.8734	10.083	37.83		622	0.754	625
48	PFK1							
49	PFK2							
50	PFK3							
51	PFK4							

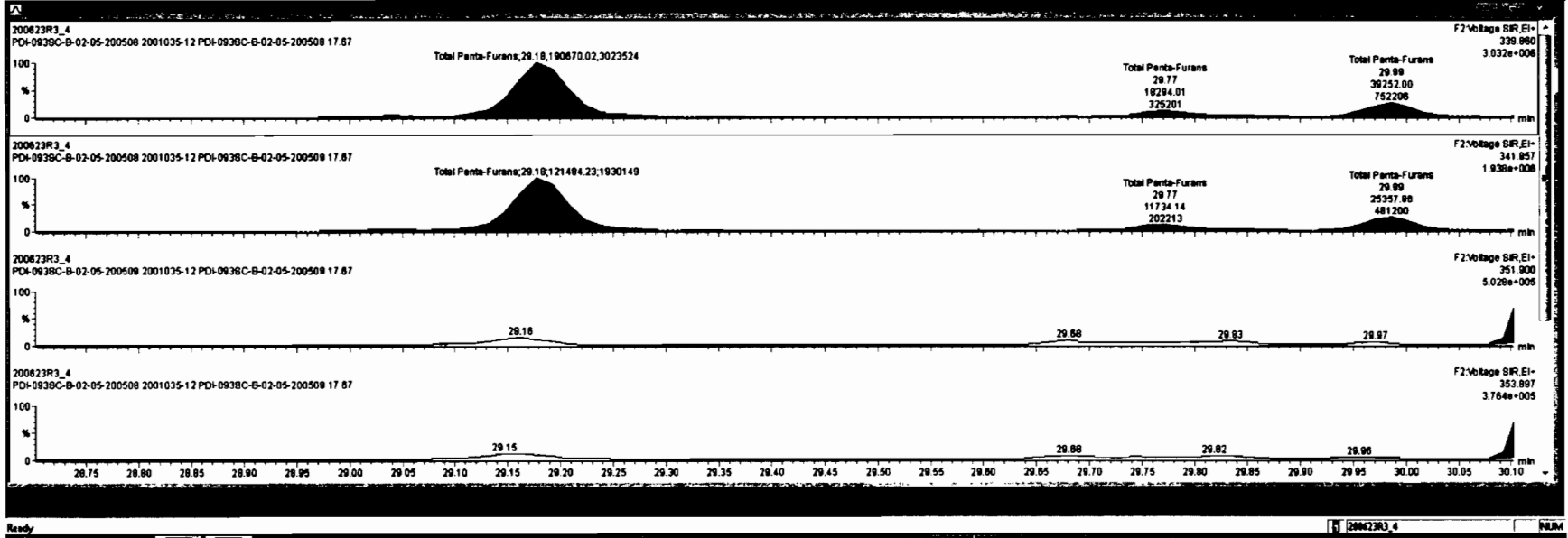
Peak	Name	Area	Height	Width	Retention	Integration	Response	Concentration
1	Total Penta-Furane	28.04	8.482e3	4.038e3	1.81	NO	2.9827	2.8827
2	Total Penta-Furane	28.18	1.887e5	1.215e5	1.58	NO	85.186	85.186
3	Total Penta-Furane	28.55	7.885e2	8.441e2	1.22	YES	0.35512	0.00000
4	Total Penta-Furane	29.77	1.835e4	1.198e4	1.57	NO	8.2288	0.00000

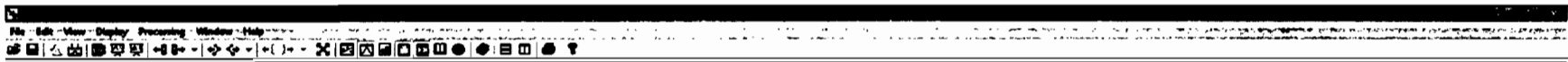




Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	
431	Total Tetra-Furans	0.7510	10.083	23.81	327	0.353	340
432	Total Penta-Furans	0.8825	10.083	27.39	48.4	0.0213	48.4
433	Total Hexa-Furans	0.9341	10.083	33.58	536	0.390	537
434	Total Hepta-Furans	0.9734	10.083	37.83	822	0.754	826
435	PFM						
436	PFQ						
437	PFH						
438	PFK						
439	PFJ						

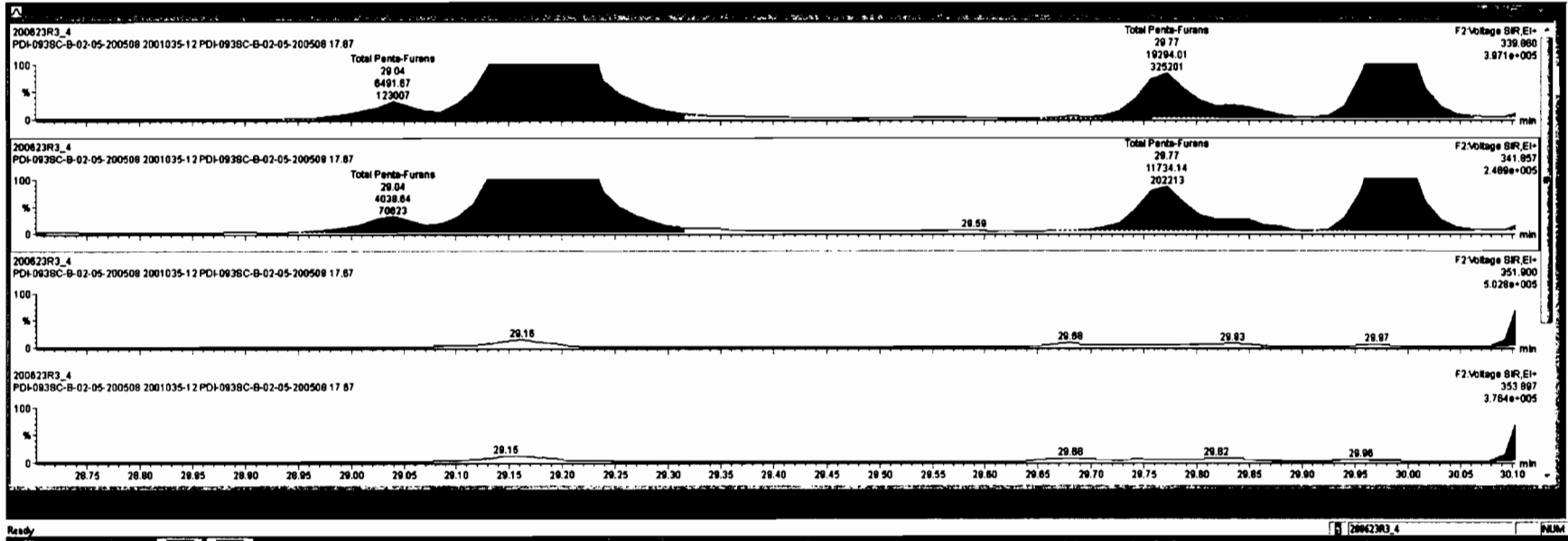
Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	
1	Total Penta-Furans	29.04	8.482e3	4.038e3	1.81	2.8827	2.8827
2	Total Penta-Furans	29.18	1.307e5	1.215e5	1.57	85.453	85.453
3	Total Penta-Furans	29.77	1.028e4	1.173e4	1.58	8.2203	0.00000
4	Total Penta-Furans	29.83	4.408e3	2.888e3	1.85	1.9387	1.9387
5	Total Dinitro-Furans	30.00	9.078e4	1.478e4	4.42	17.887	17.887





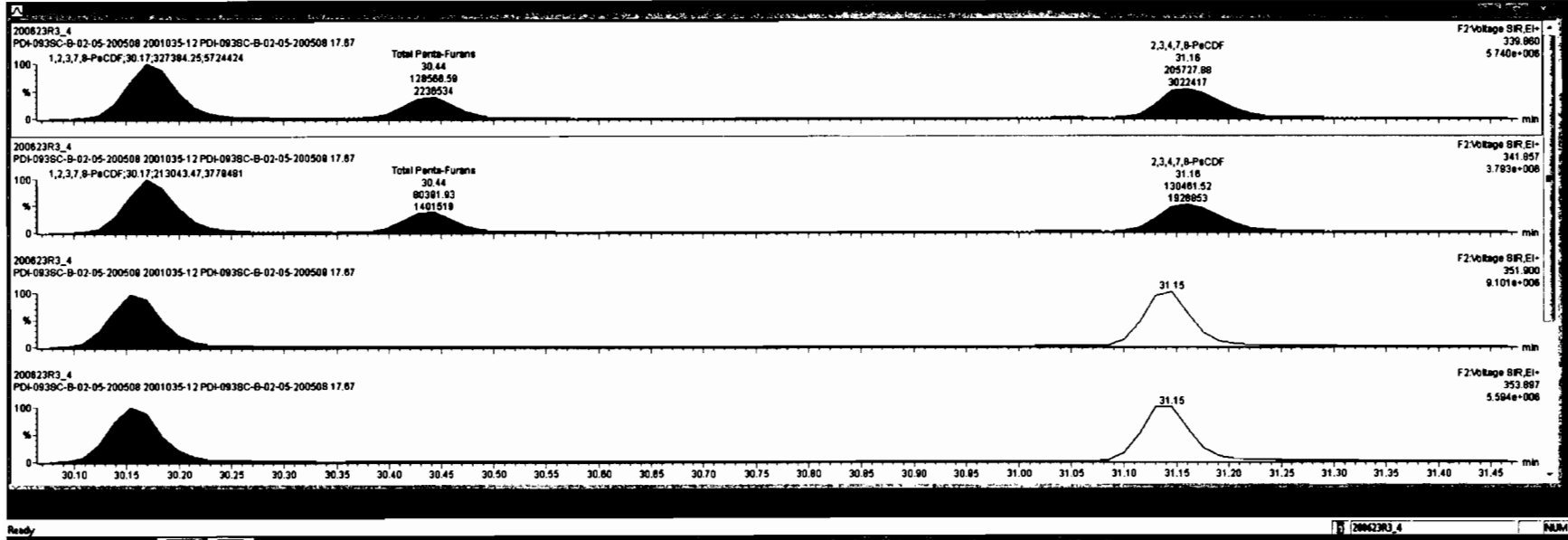
Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration
43.1	Total Tetra-Furans	0.7910	10.083	23.81		327		0.353 340
44.2	Tot Furoc. Penta-Furans	0.8625	10.083	27.50		48.4		0.0313 48.4
45.3	Total Hexa-Furans	0.9341	10.083	33.95		538		0.380 537
46.4	Total Hepta-Furans	0.8734	10.083	37.83		622		0.754 625
48.1	PFH1							
48.7	PFH2							
49.3	PFH3							
49.5	PFH4							

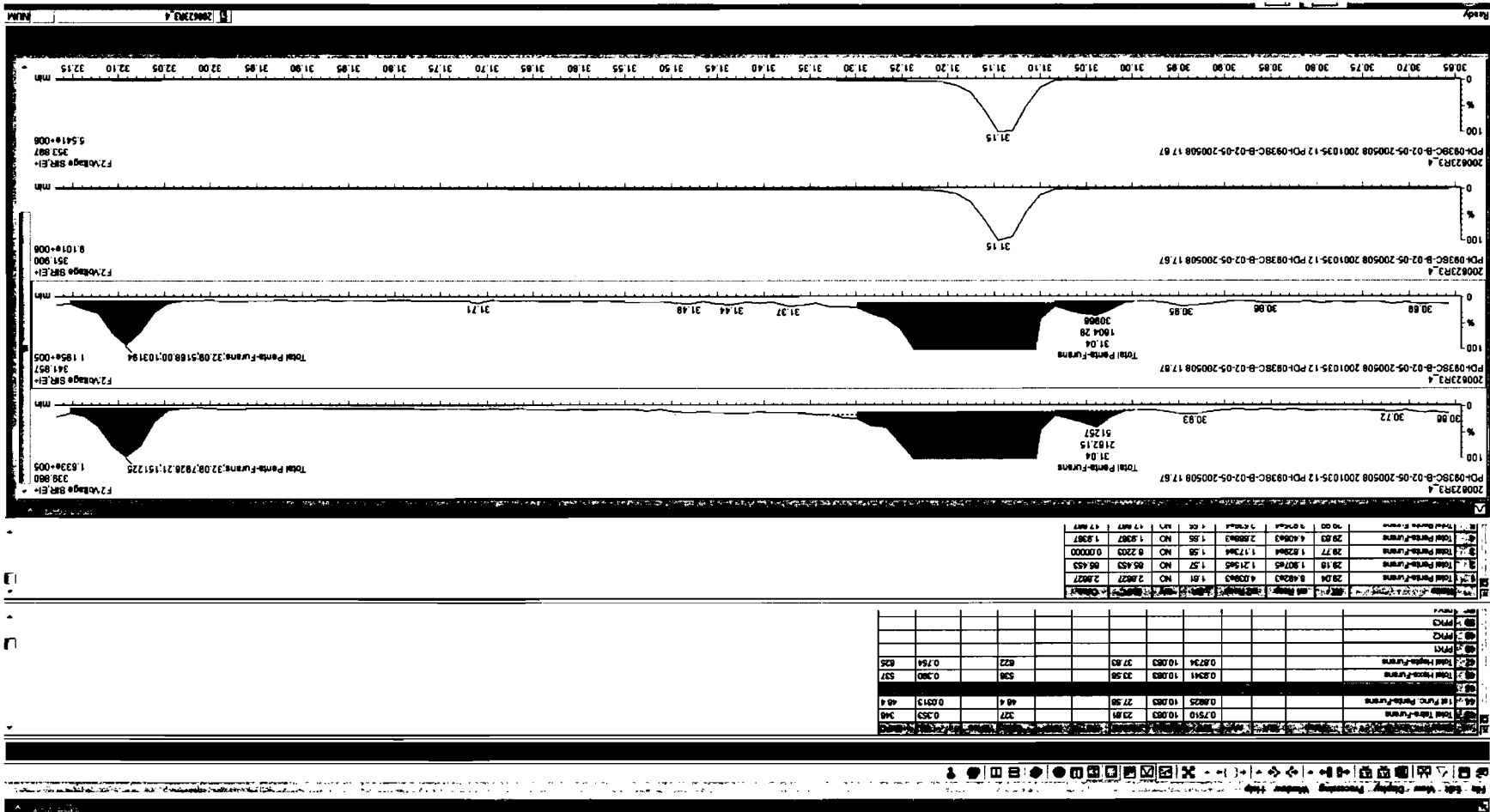
Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration
1.7	Total Penta-Furans	29.04	8.492e3	4.039e3	1.91	NO	2.8627	2.8627
2.3	Total Penta-Furans	29.18	1.907e5	1.215e5	1.57	NO	85.453	85.453
3.4	Total Penta-Furans	29.77	1.829e4	1.173e4	1.58	NO	8.2203	0.02000
4.5	Total Penta-Furans	29.83	4.408e3	2.888e3	1.85	NO	1.8267	1.8267
49.5	Total Samba-Furans	70.00	9.076e4	7.678e4	1.48	NO	17.887	17.887



Peak	Name	Area	Height	Width	Retention	Response	Integration	Integration
48	Total Tetra-Furans	0.7510	10.083	23.81		327	0.353	348
49	1st Func. Penta-Furans	0.8625	10.083	27.58		48.4	0.0313	48.4
50	Total Hexa-Furans	0.9341	10.083	33.58		538	0.380	537
51	Total Hepta-Furans	0.8734	10.083	37.83		622	0.754	625
52	PFK1							
53	PFK2							
54	PFK3							
55	Hexa							

Peak	Name	Area	Height	Width	Retention	Response	Integration	Integration
53	Total Penta-Furans	28.04	8.482e3	4.038e3	1.81	NO	2.8827	2.8827
54	Total Penta-Furans	28.18	1.807e5	1.215e5	1.57	NO	85.453	85.453
55	Total Penta-Furans	28.77	1.829e4	1.173e4	1.58	NO	8.2203	0.00000
56	Total Penta-Furans	28.83	4.405e3	2.888e3	1.85	NO	1.9287	1.9287
57	Total Penta-Furans	28.88	1.875e4	1.478e4	1.85	NO	17.887	17.887





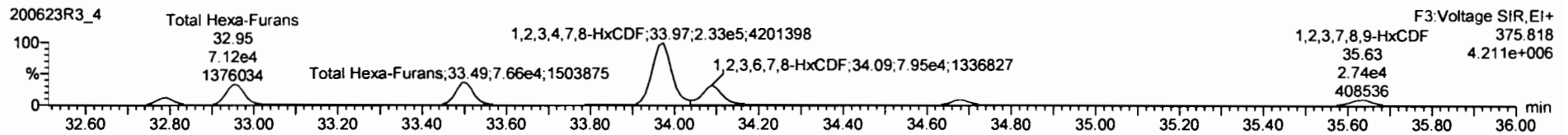
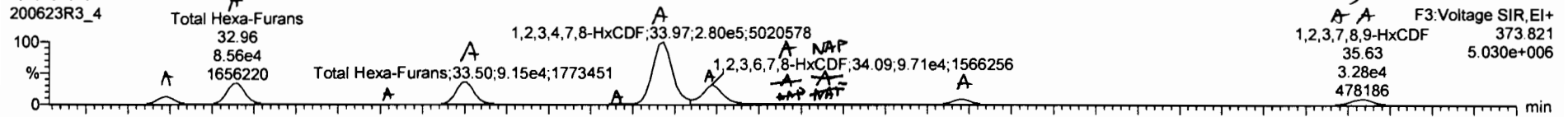
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Last Altered: Wednesday, June 24, 2020 7:24:36 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:25:06 AM Pacific Daylight Time

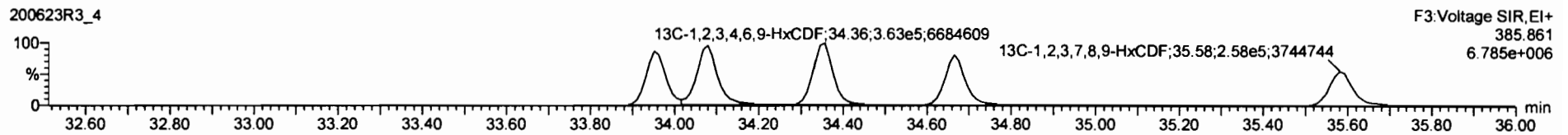
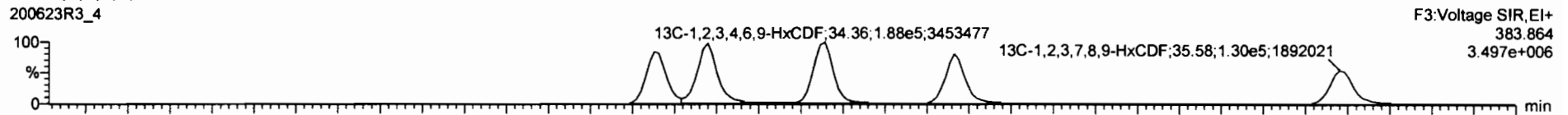
Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

HN 07/02/2020

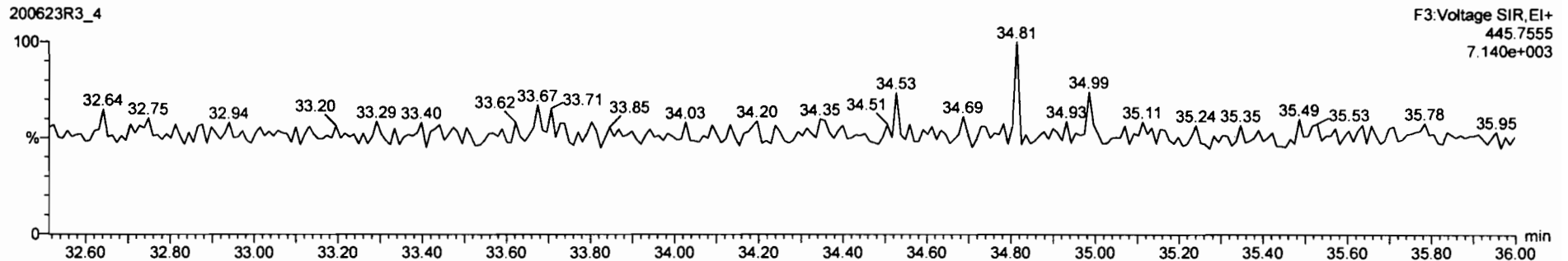
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13C-1,2,3,4,7,8-HxCDF

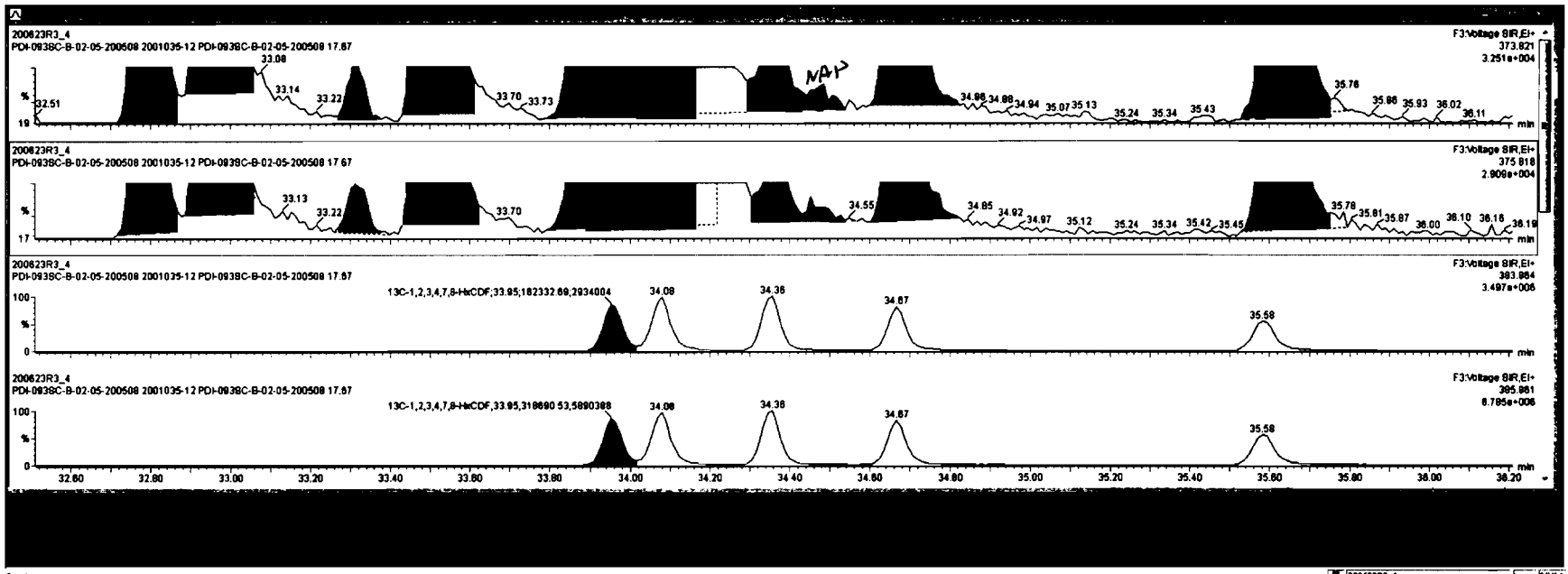


DPE3



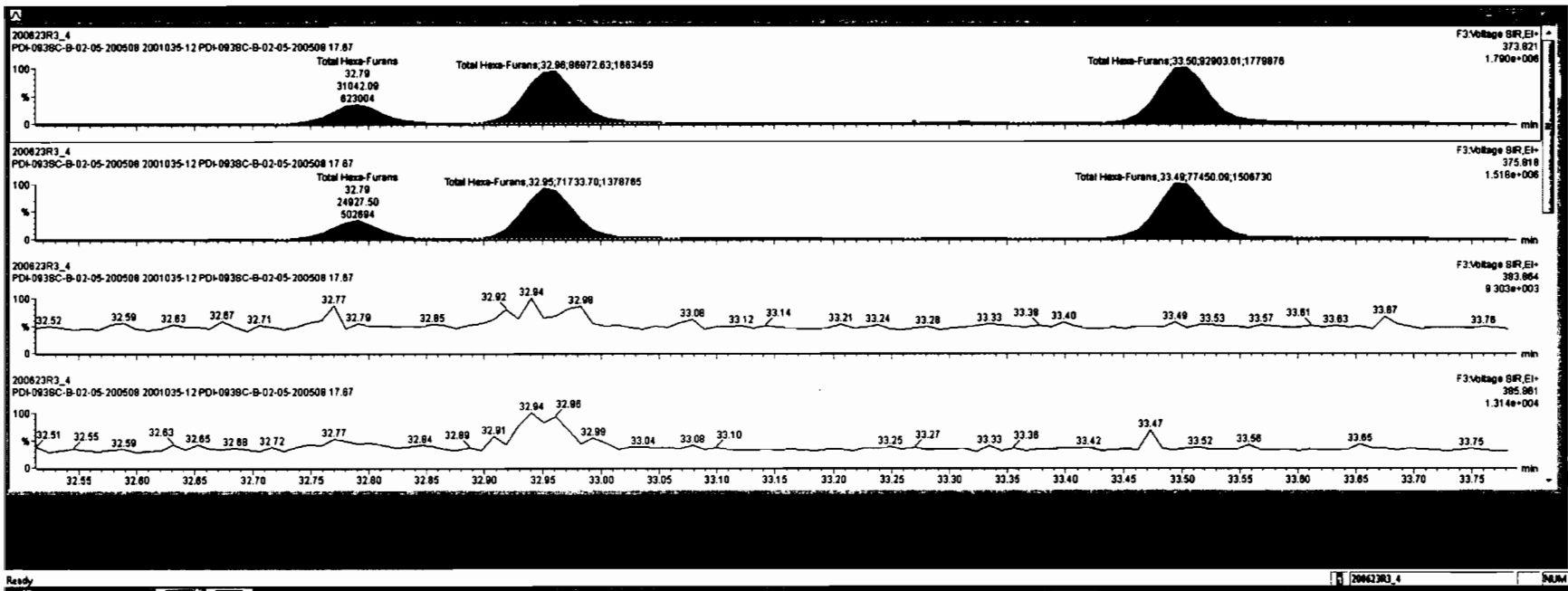
Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
Total Tetra-Furans	0.7510	10.083	23.81		327		0.353
Total Penta-Furans	0.8925	10.083	27.58		48.4		0.0313
Total Hexa-Furans	0.8925	10.083	28.27		404		0.360
Total Hepta-Furans	0.8734	10.083	37.83		822		0.754
PFK1							
PFK2							
PFK3							
PFK4							

Peak	Retention Time	Area	Height	Width	Integration	Integration
Total Hepta-Furans	32.70	3.104e4	2.483e4	1.25	NO	25.228



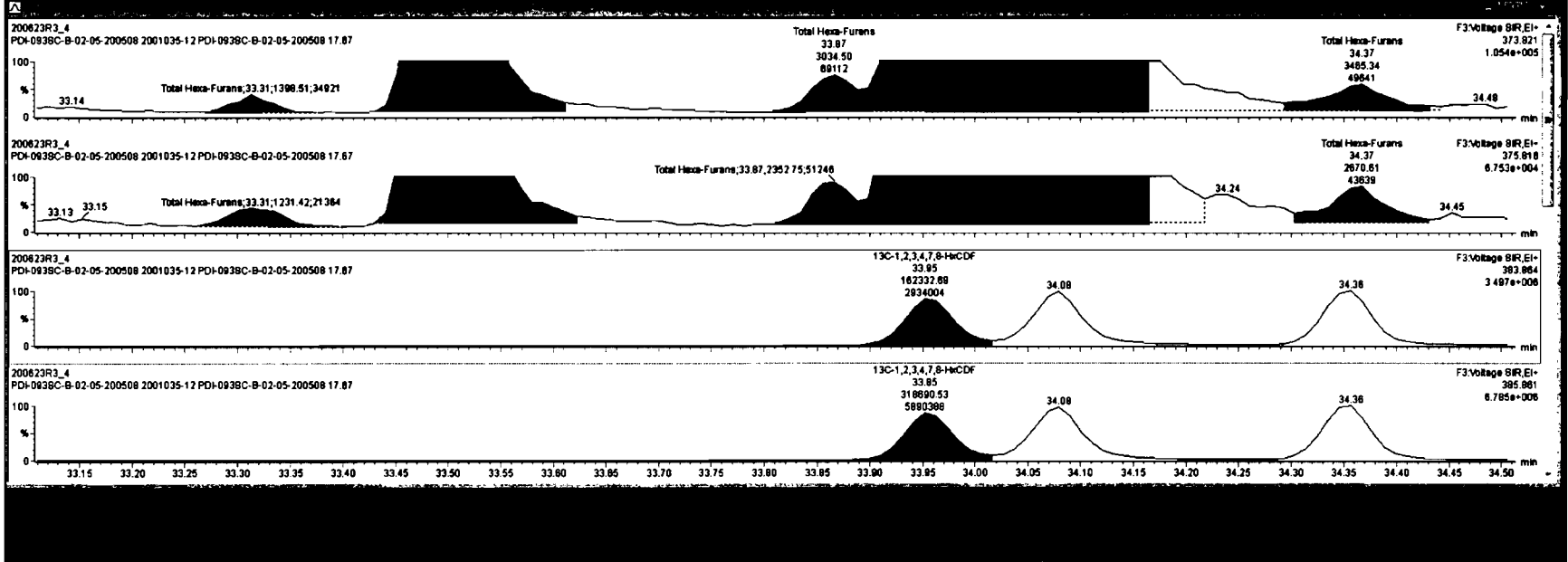
Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
402	Total Toluene-Furans	0.7510	10.083	23.81		327	0.353 348
403	Total Furans: Penta-Furans	0.8625	10.083	27.58		48.4	0.0313 48.4
404	Total Penta-Furans	0.8625	10.083	28.27		404	0.380 413
405	Total Hexa-Furans	0.8734	10.083	37.83		622	0.754 625
406	PFK1						
407	PFK2						
408	PFK3						
409	PFK4						

Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
405	Total Hexa-Furans	32.79	31042.09	2.48264	1.25	NO	25.236 25.236



Peak #	Name	RT	Area	Height	Width	Area%	Height%	Area	Height
48	Total Tetra-Furans	0.7510	10.083	23.81				327	0.353
49	Total Penta-Furans	0.8625	10.083	27.58				48.4	0.6313
50	Total Hexa-Furans	0.8625	10.083	28.27				404	0.380
51	Total Hepta-Furans	0.8734	10.083	37.83				622	0.754

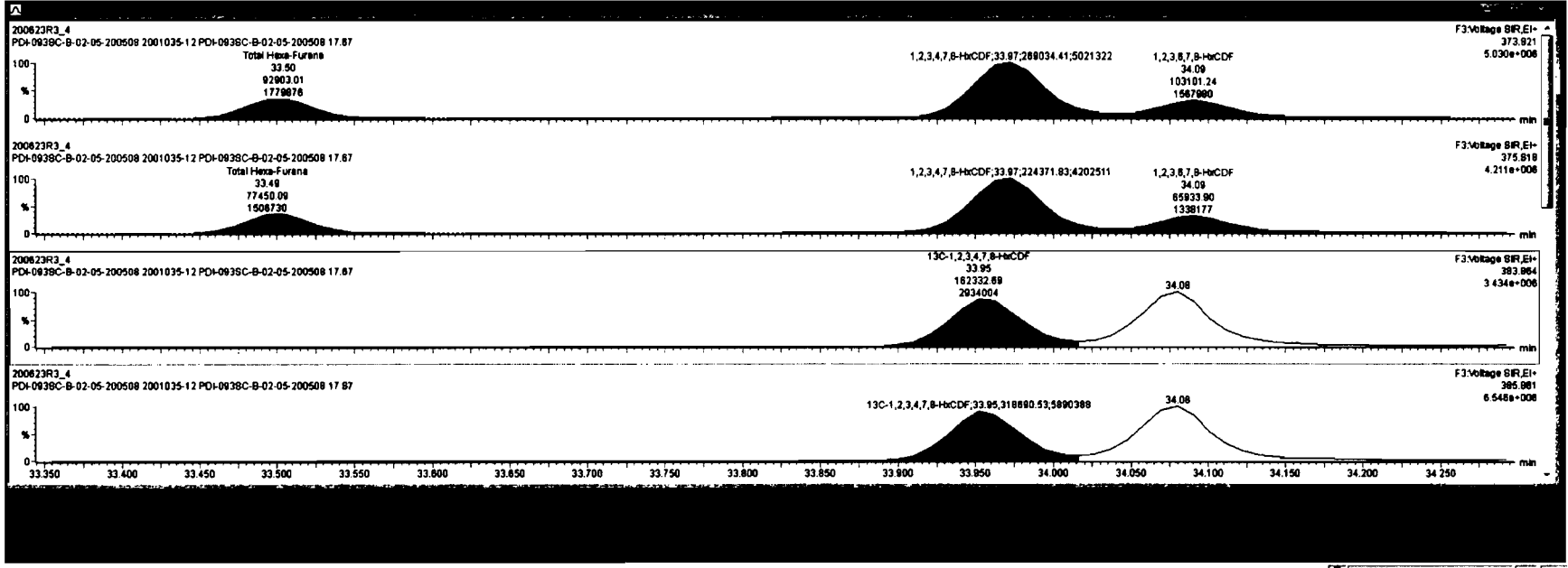
Peak #	Name	RT	Area	Height	Width	Area%	Height%	Area	Height
52	Total Hexa-Furans	32.79	3.10e+4	2.483e4	1.25	NO		25.236	25.236



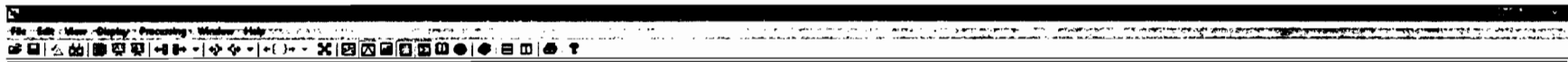


001	Total Tetra-Furane			0.7510	10.083	23.81		327	0.353	348
002	1st Func. Penta-Furane			0.8825	10.083	27.58		484	0.0319	484
003	Total Penta-Furane			0.8825	10.083	28.27		404	0.380	413
004	Total Hexa-Furane			0.8734	10.083	37.83		622	0.754	625
005	PFK1									
006	PFK2									
007	PFK3									

008	Total Hexa-Furane	32.79	3.104e4	2.483e4	1.25	NO	25.238	25.238
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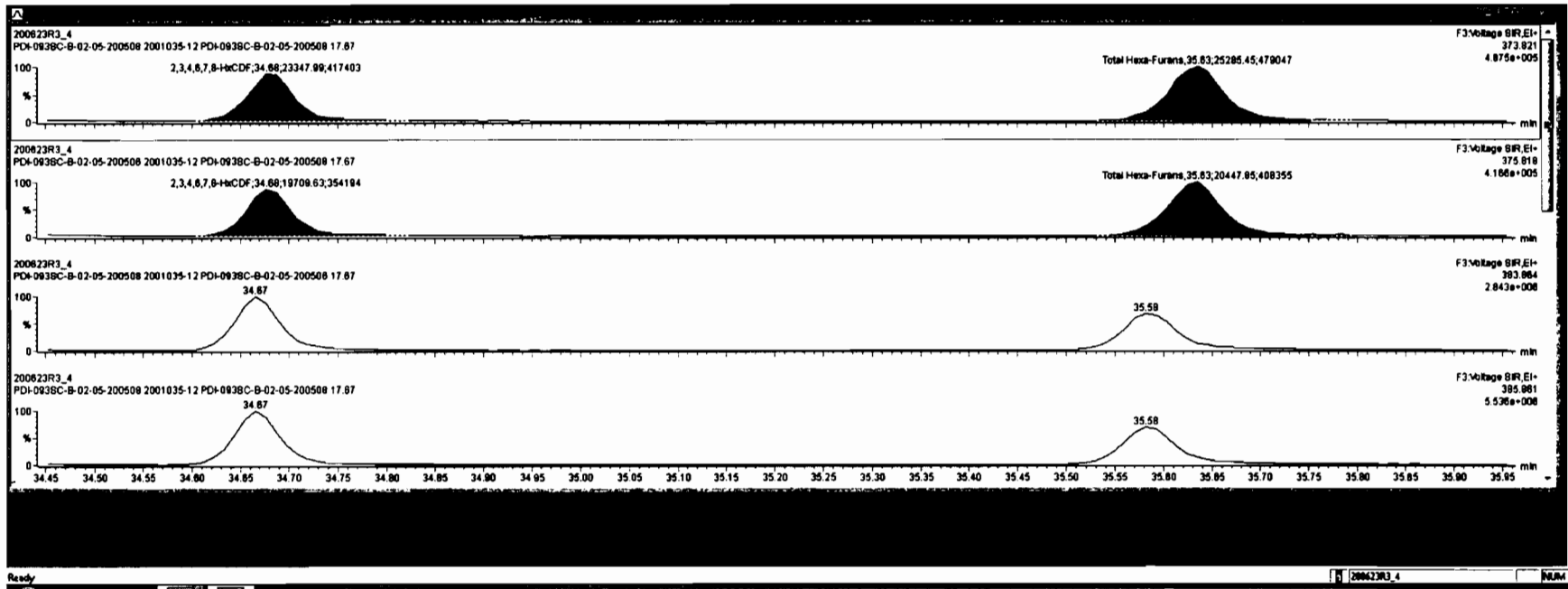


Ready [200623R3_4] [NEW]



Peak	Retention Time (min)	Area	Height	Width	Height	Area	Height	Width
Total Tetra-Furans	0.7510	10.083	23.91			327	0.353	346
Total Penta-Furans	0.8625	10.083	27.56			48.4	0.0313	48.4
Total Hexa-Furans	0.8625	10.083	29.27			404	0.380	413
Total Hepta-Furans	0.8734	10.083	37.83			622	0.754	625
PFK1								
PFK2								
PFK3								

Peak	Retention Time (min)	Area	Height	Width	Height	Area	Height	Width
Total Hexa-Furans	32.79	3.104e4	2.483e4	1.25	MC	25.236	25.238	

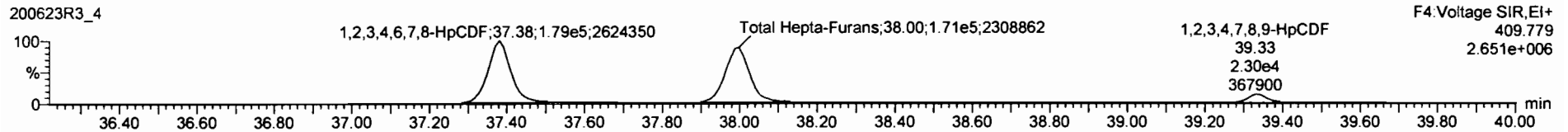
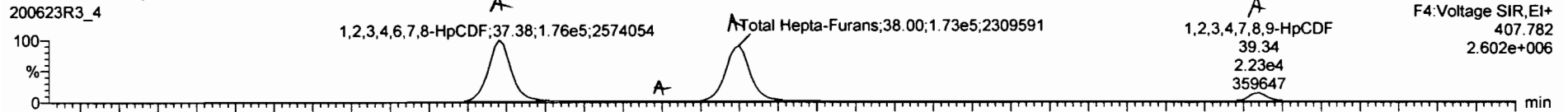


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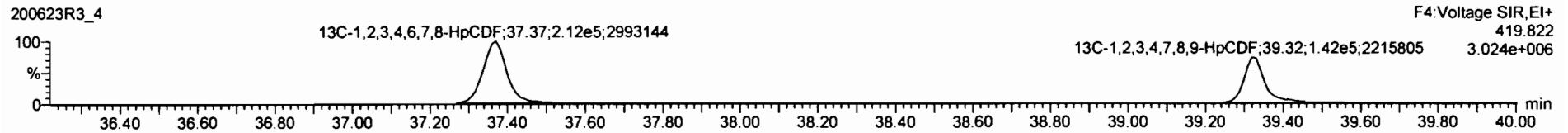
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Printed: Wednesday, June 24, 2020 7:25:06 AM Pacific Daylight Time

Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

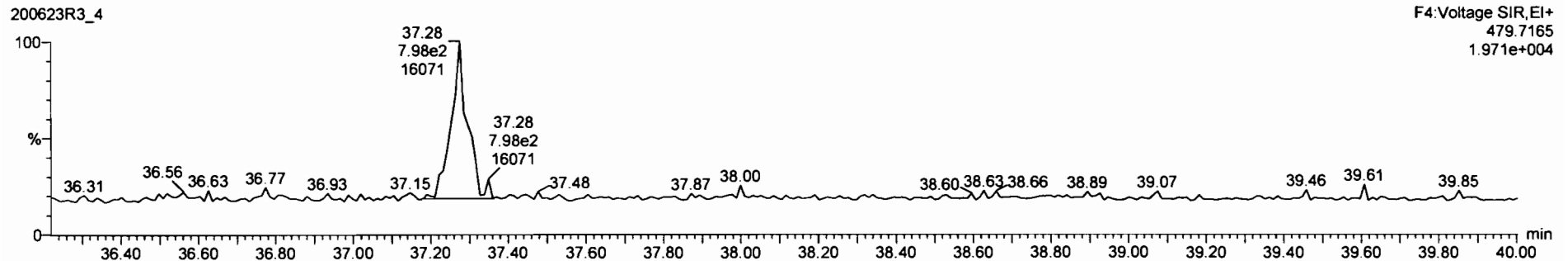
1,2,3,4,6,7,8-HpCDF



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

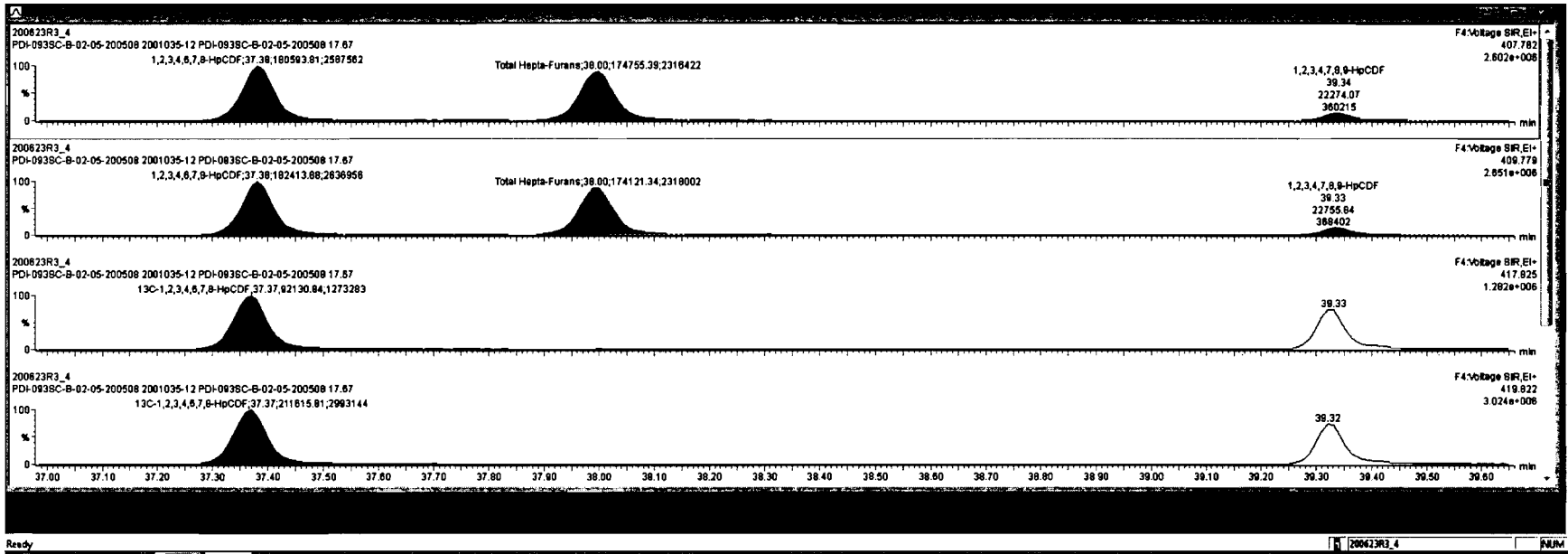


DPE4



Comp	Name	Area	Height	Width	Retention	Response	Integration
45.7	Total Tetra-Furans	0.7510	10.083	23.81		327	0.353 348
46.7	1st Func. Penta-Furans	0.8925	10.083	27.58		48.4	0.6315 48.4
46.7	Total Penta-Furans	0.8925	10.083	28.27		404	0.360 413
47.7	Total Hexa-Furans	0.9341	10.083	33.58		534	0.360 534
48.7	PFK1						
48.7	PFK2						
48.7	PFK3						
48.7	PFK4						

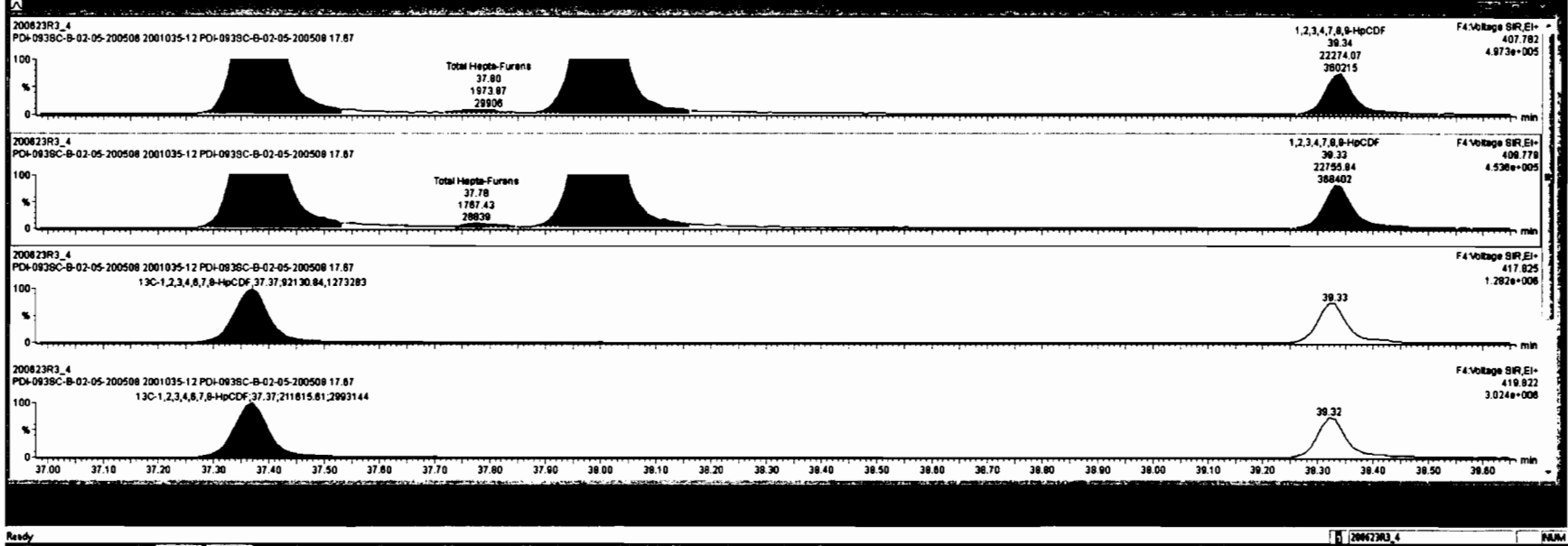
Comp	Name	Area	Height	Width	Retention	Response	Integration
1.7	1,2,3,4,6,7,8-HpCDF	37.38	1.80565	1.82465	0.90	NO	271.94 271.94
2.7	Total Hepta-Furans	37.80	1.97463	1.76763	1.12	NO	3.3042 3.3042
2.7	Total Hepta-Furans	38.00	1.74885	1.74185	1.00	NO	318.51 318.51
16.2	1,2,3,4,7,8-HpCDF	38.34	2.27764	2.27764	0.90	NO	44.842 44.842





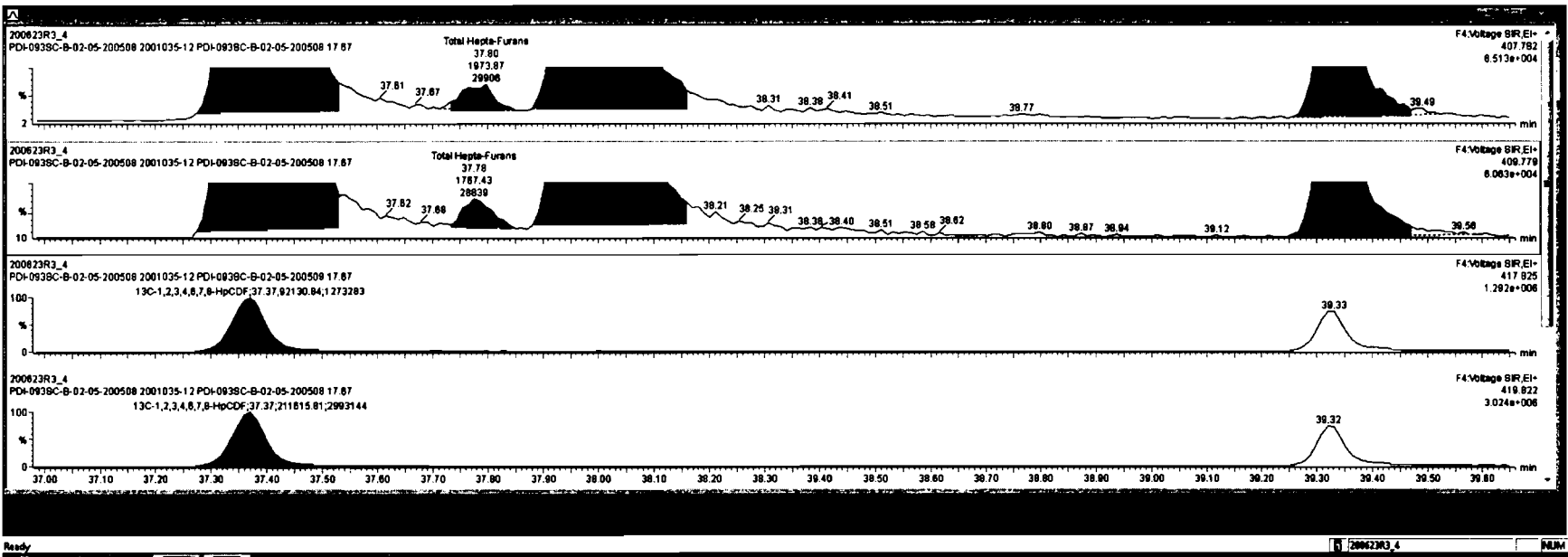
Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	37.30	1.808e5	1.824e5	0.98	NO	271.84	271.84						
2	37.80	1.874e5	1.787e5	1.12	NO	3.3942	3.3942						
3	38.00	1.748e5	1.741e5	1.00	NO	316.51	316.51						
4	38.34	2.227e5	2.275e5	0.98	NO	44.648	44.648						

Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	37.30	1.808e5	1.824e5	0.98	NO	271.84	271.84						
2	37.80	1.874e5	1.787e5	1.12	NO	3.3942	3.3942						
3	38.00	1.748e5	1.741e5	1.00	NO	316.51	316.51						
4	38.34	2.227e5	2.275e5	0.98	NO	44.648	44.648						



Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width
43	Total Tetra-Furans	0.7510	10.083	23.81		327	0.353	346
44	Total Penta-Furans	0.8625	10.083	27.59		48.4	0.0313	48.4
45	Total Hexa-Furans	0.8625	10.083	28.27		404	0.360	413
46	Total Hepta-Furans	0.9341	10.083	33.58		534	0.360	534

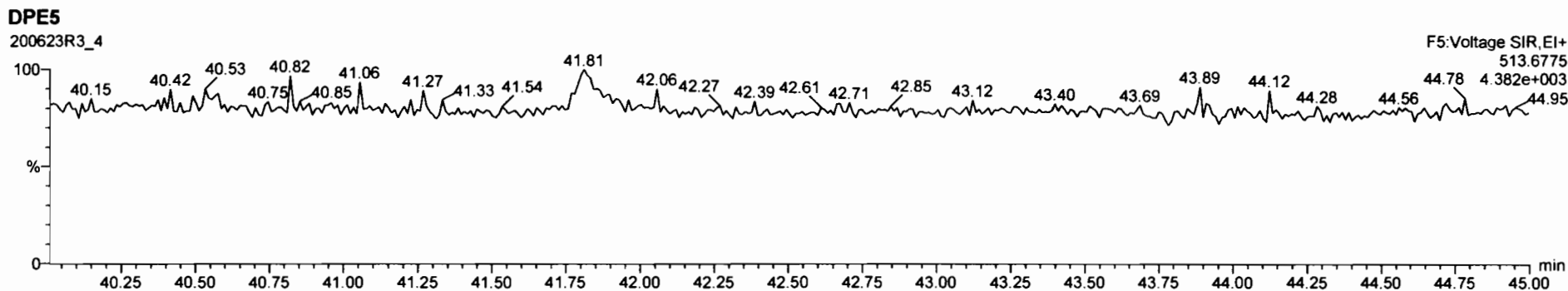
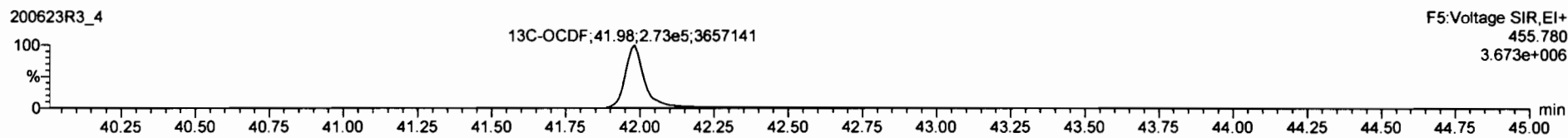
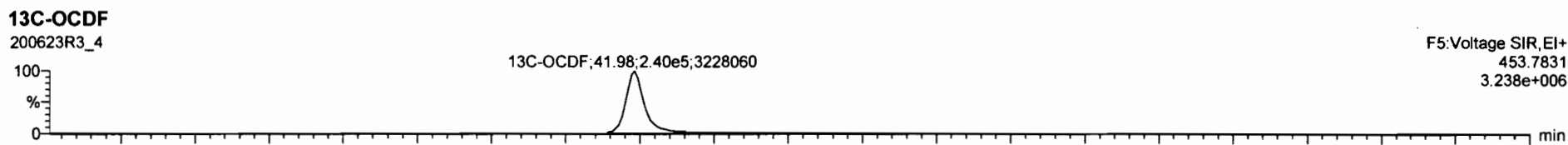
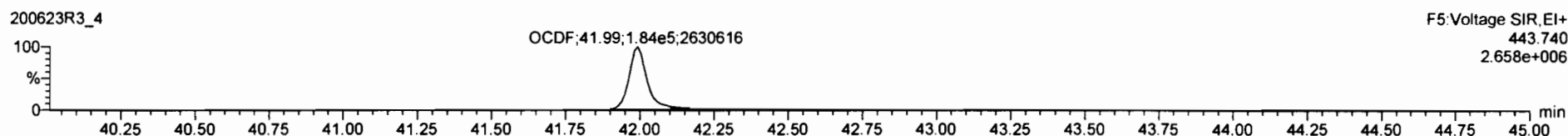
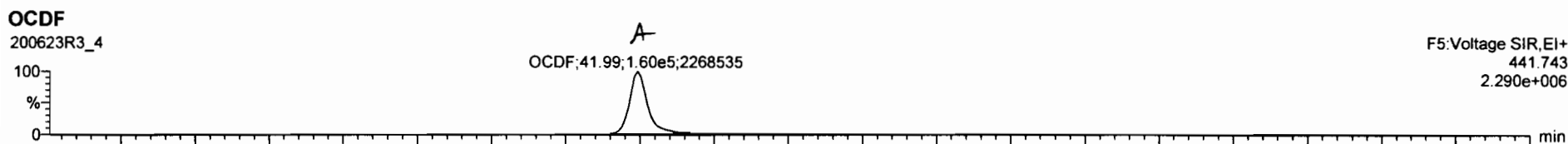
Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width
47	1,2,3,4,8,7,8-HpCDF	37.26	1.80865	1.82465	0.98	NO	271.94	271.94
48	Total Hepta-Furans	37.80	1.97463	1.78763	1.12	NO	3.3642	3.3642
49	Total Hepta-Furans	38.00	1.74865	1.74165	1.00	NO	318.51	318.51



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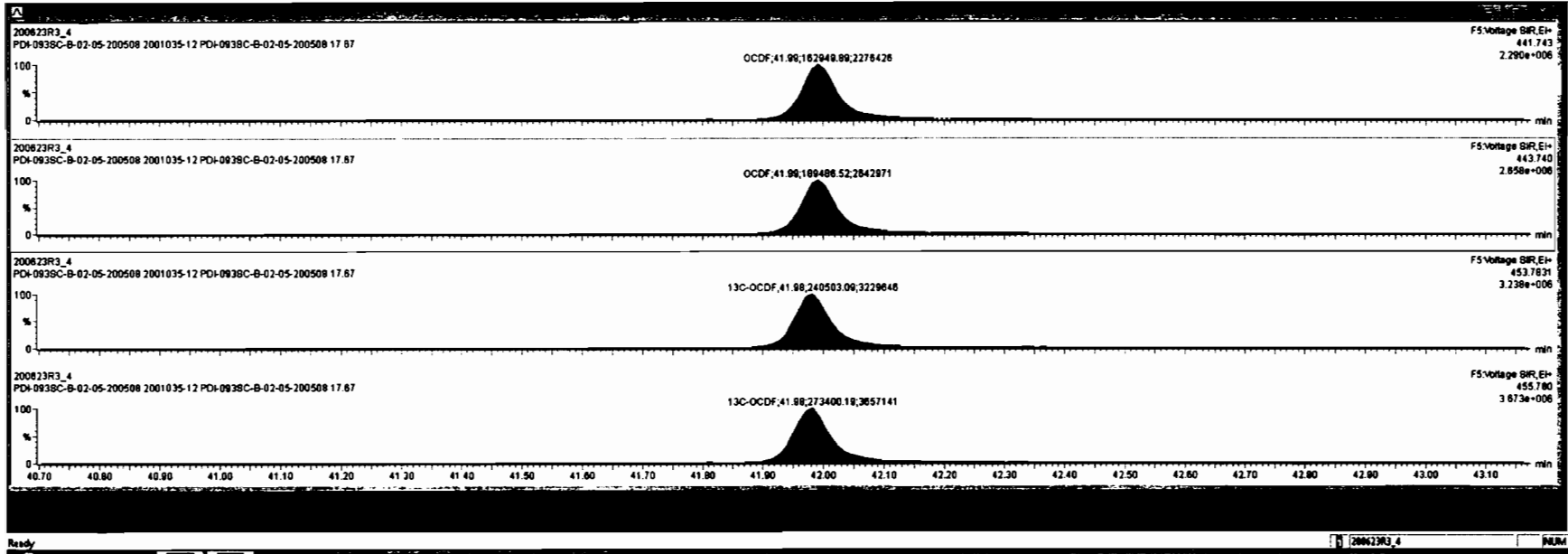
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Printed: Wednesday, June 24, 2020 7:25:06 AM Pacific Daylight Time

Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508



Item	Material	QTY	Unit	Lot	Exp	Lot	Exp	Lot	Exp	Lot	Exp	Lot	Exp
13C-2,2,7,8-TCDD	5.90e5	0.77	NO	1.19e3	10.083	28.49	28.47	1.028	195	98.1	0.290		
13C-1,2,3,7,8-HxCDD	5.40e5	0.83	NO	0.8490	10.083	31.87	31.45	1.218	240	121	0.314		
13C-1,2,3,4,7,8-HxCDD	3.43e5	1.28	NO	0.7790	10.083	34.84	34.84	1.014	150	79.7	0.375		
13C-1,2,3,6,7,8-HxCDD	4.89e5	1.27	NO	1.0187	10.083	34.95	34.94	1.017	188	83.3	0.440		
13C-1,2,3,7,8,9-HxCDD	3.80e5	1.27	NO	0.9027	10.083	35.23	35.22	1.025	152	78.4	0.488		
13C-1,2,3,4,6,7,8-HxCDD	2.83e5	1.00	NO	0.8892	10.083	38.75	38.78	1.128	148	74.5	0.508		
13C-OCDF	5.01e5	0.88	NO	0.8521	10.083	41.77	41.79	1.218	277	98.8	0.558		

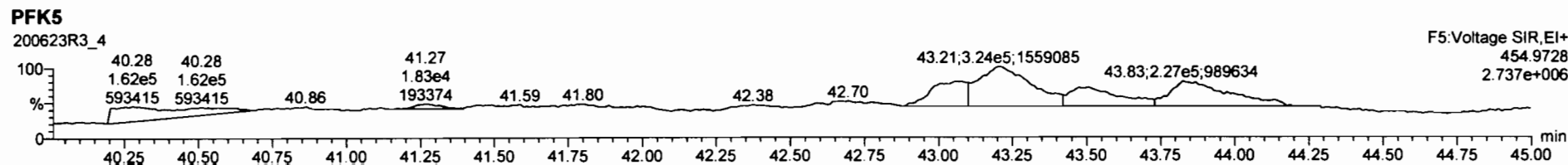
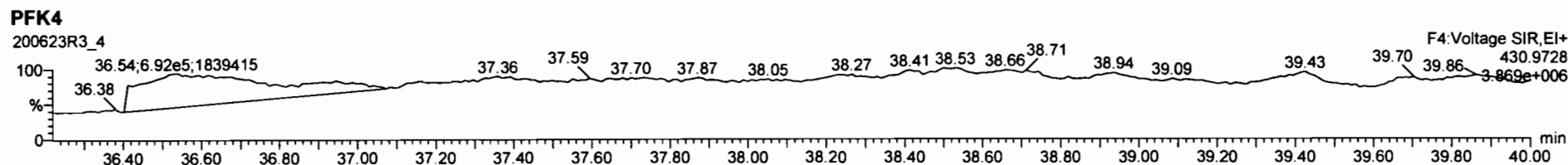
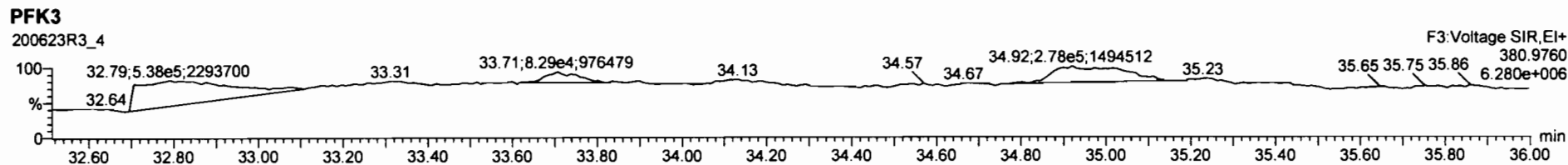
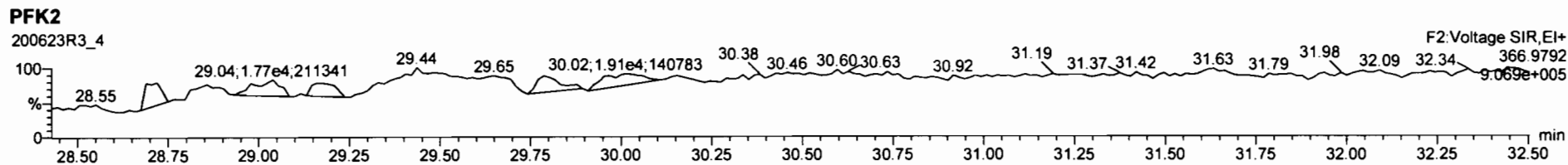
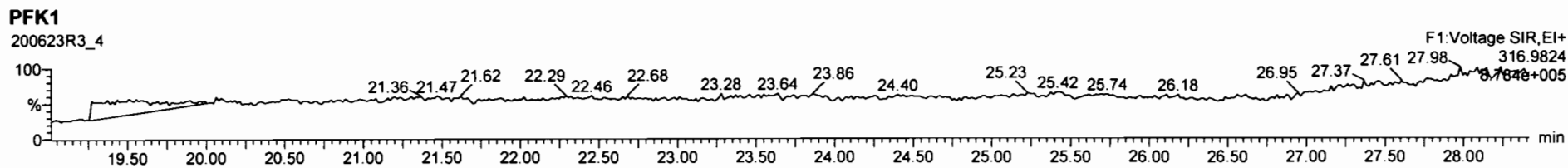
Item	Material	QTY	Unit	Lot	Exp	Lot	Exp	Lot	Exp	Lot	Exp	Lot	Exp
13C-OCDF	5.01e5	0.88	NO	0.8521	10.083	41.77	41.79	1.218	277	98.8	0.558		



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 7:24:36 AM Pacific Daylight Time
Printed: Wednesday, June 24, 2020 7:25:06 AM Pacific Daylight Time

Name: 200623R3_4, Date: 24-Jun-2020, Time: 05:52:20, ID: 2001035-12 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508



Dataset: U:\VG12.PRO\Results\200623R3\200623R3-6D.qld

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HN 07/17/2020

Method: Untitled 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

* 10.0995

C7 07/17/2020

Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

HN 07/17/2020

	Resp	RA	n/y	RRF	WVWV	Area	Height	Area	Height	Area	Height	Area	Height
1	2,3,7,8-TCDD		NO	0.888	10.120 *	26.501		1.001				0.117	
2	1,2,3,7,8-PeCDD	6.39e2	0.95	YES	0.908	10.120	31.457	31.45	1.001	1.001	0.20931	0.0991	0.175
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.120	34.835		1.000				0.115	
4	1,2,3,6,7,8-HxCDD	2.21e3	1.38	NO	0.892	10.120	34.931	34.94	1.000	1.000	0.88437	0.116	0.884
5	1,2,3,7,8,9-HxCDD	9.91e2	1.40	NO	0.887	10.120	35.219	35.23	1.000	1.001	0.44806	0.138	0.448
6	1,2,3,4,6,7,8-HpCDD	4.36e4	1.04	NO	0.864	10.120	38.767	38.78	1.000	1.001	29.207	0.382	29.2
7	OCDD	4.22e5	0.87	NO	0.914	10.120	41.748	41.76	1.000	1.000	386.68	0.681	387
8	2,3,7,8-TCDF	8.53e2	0.68	NO	0.751	10.120	25.596	25.60	1.001	1.001	0.27457	0.121	0.275
9	1,2,3,7,8-PeCDF	5.57e2	1.04	YES	0.893	10.120	30.174	30.17	1.001	1.001	0.12792	0.0973	0.107
10	2,3,4,7,8-PeCDF	1.58e3	1.35	NO	0.935	10.120	31.161	31.16	1.001	1.001	0.34989	0.0661	0.350
11	1,2,3,4,7,8-HxCDF	2.39e3	1.02	YES	0.884	10.120	33.951	33.96	1.000	1.000	0.93185	0.116	0.849
12	1,2,3,6,7,8-HxCDF	2.05e3	1.22	NO	0.889	10.120	34.079	34.08	1.000	1.000	0.67094	0.105	0.671
13	2,3,4,6,7,8-HxCDF	2.33e3	1.18	NO	0.934	10.120	34.689	34.68	1.001	1.001	0.84404	0.123	0.844
14	1,2,3,7,8,9-HxCDF	1.56e2	1.56	YES	0.871	10.120	35.581	35.60	1.000	1.001	0.074791	0.183	0.0655
15	1,2,3,4,6,7,8-HpCDF	3.32e4	1.00	NO	0.873	10.120	37.386	37.37	1.001	1.001	19.455	0.240	19.5
16	1,2,3,4,7,8,9-HpCDF	4.30e2	1.17	NO	1.01	10.120	39.309	39.32	1.000	1.000	0.33235	0.284	0.332
17	OCDF	1.04e4	0.86	NO	0.806	10.120	41.939	41.96	1.000	1.001	9.3663	0.177	9.37
18	13C-2,3,7,8-TCDD	6.61e5	0.77	NO	1.16	10.120	26.491	26.47	1.026	1.026	176.29	89.0	0.201
19	13C-1,2,3,7,8-PeCDD	6.66e5	0.64	NO	0.849	10.120	31.674	31.43	1.227	1.218	241.74	122	0.386
20	13C-1,2,3,4,7,8-HxCDD	4.49e5	1.28	NO	0.779	10.120	34.830	34.83	1.014	1.014	168.12	84.9	0.370
21	13C-1,2,3,6,7,8-HxCDD	5.55e5	1.30	NO	1.02	10.120	34.944	34.93	1.017	1.017	158.95	80.3	0.284
22	13C-1,2,3,7,8,9-HxCDD	4.94e5	1.28	NO	0.903	10.120	35.215	35.21	1.025	1.025	159.49	80.5	0.320
23	13C-1,2,3,4,6,7,8-HpCDD	3.42e5	1.07	NO	0.689	10.120	38.739	38.76	1.128	1.128	144.67	73.1	0.363
24	13C-OCDD	4.73e5	0.90	NO	0.652	10.120	41.761	41.75	1.216	1.216	211.47	53.4	0.434
25	13C-2,3,7,8-TCDF	8.19e5	0.76	NO	1.06	10.120	25.534	25.57	0.989	0.991	160.07	80.8	0.271
26	13C-1,2,3,7,8-PeCDF	9.66e5	1.61	NO	0.838	10.120	30.058	30.15	1.165	1.168	238.45	120	0.767
27	13C-2,3,4,7,8-PeCDF	9.57e5	1.63	NO	0.817	10.120	31.011	31.13	1.202	1.206	242.51	122	0.787
28	13C-1,2,3,4,7,8-HxCDF	5.74e5	0.51	NO	1.01	10.120	33.961	33.95	0.989	0.988	166.08	83.9	0.616
29	13C-1,2,3,6,7,8-HxCDF	6.82e5	0.51	NO	1.17	10.120	34.085	34.07	0.992	0.992	170.24	86.0	0.532
30	13C-2,3,4,6,7,8-HxCDF	5.85e5	0.52	NO	1.02	10.120	34.659	34.65	1.009	1.009	166.78	84.2	0.608
31	13C-1,2,3,7,8,9-HxCDF	4.75e5	0.53	NO	0.860	10.120	35.558	35.58	1.035	1.036	161.18	81.4	0.722

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-6D.qld

Last Altered: Friday, July 17, 2020 10:02:13 AM Pacific Daylight Time

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Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

HN 10 HN 07/17/2020

Item	Conc	RRsp	RA	iv	RRF	WAV	Pre	RT	RR	RRR	Area	Area	Area	Area
32	13C-1,2,3,4,6,7,8-HpCDF	3.86e5	0.44	NO	0.774	10.120	37.307	37.35	1.086	1.087	145.40	73.4	0.580	
33	13C-1,2,3,4,7,8,9-HpCDF	2.53e5	0.45	NO	0.521	10.120	39.336	39.31	1.145	1.145	141.44	71.4	0.863	
34	13C-OCDF	5.45e5	0.88	NO	0.746	10.120	41.933	41.94	1.221	1.221	213.05	53.8	0.299	
35	37Cl-2,3,7,8-TCDD	2.54e5			1.04	10.120	26.522	26.48	1.028	1.026	75.678	95.5	0.0590	
36	13C-1,2,3,4-TCDD	6.42e5	0.79	NO	1.00	10.120	25.890	25.81	1.000	1.000	198.02	100	0.232	
37	13C-1,2,3,4-TCDF	9.57e5	0.79	NO	1.00	10.120	24.360	24.13	1.000	1.000	198.02	100	0.287	
38	13C-1,2,3,4,6,9-HxCDF	6.79e5	0.51	NO	1.00	10.120	34.420	34.35	1.000	1.000	198.02	100	0.621	
39	Total Tetra-Dioxins				0.888	10.120	24.620		0.000		0.91251		0.117	1.04
40	Total Penta-Dioxins				0.908	10.120	29.960		0.000		0.32777		0.0981	2.23
41	Total Hexa-Dioxins				0.892	10.120	33.635		0.000		10.280		0.128	10.3
42	Total Hepta-Dioxins				0.864	10.120	37.640		0.000		69.241		0.382	69.2
43	Total Tetra-Furans				0.751	10.120	23.610		0.000		7.5792		0.121	8.15
44	1st Func. Penta-Furans				0.893	10.120	27.580		0.000		6.1223		0.0289	6.12
45	Total Penta-Furans				0.893	10.120	29.275		0.000		5.6106		0.0683	6.09
46	Total Hexa-Furans				0.934	10.120	33.555		0.000		15.746		0.123	16.8
47	Total Hepta-Furans				0.873	10.120	37.835		0.000		35.954		0.275	36.0

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-6D.qld

Last Altered: Friday, July 17, 2020 10:02:13 AM Pacific Daylight Time
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Method: Untitled 01 Jun 2020 11:54:45

Callibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Y/N	Area	Area	Area	Area
Total Tetra-Dioxins	22.47	4.706e3	5.264e3	3.875e2	5.517e2	0.70	NO	9.392e2	0.31669	0.31669	0.117
Total Tetra-Dioxins	22.91	4.148e3	6.168e3	2.986e2	3.677e2	0.81	NO	6.663e2	0.22468	0.22468	0.117
Total Tetra-Dioxins	24.31	3.475e3	4.757e3	3.027e2	3.664e2	0.83	NO	6.691e2	0.22563	0.22563	0.117
Total Tetra-Dioxins	24.57	3.704e3	3.192e3	2.088e2	2.146e2	0.97	YES	0.000e0	0.00000	0.12810	0.117
Total Tetra-Dioxins	24.78	3.266e3	3.530e3	1.973e2	2.342e2	0.84	NO	4.315e2	0.14550	0.14550	0.117

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Y/N	Area	Area	Area	Area
Total Penta-Dioxins	29.24	1.161e4	1.435e4	8.693e2	1.019e3	0.85	YES	0.000e0	0.00000	0.54444	0.0981
Total Penta-Dioxins	29.71	5.141e3	5.778e3	2.430e2	3.105e2	0.78	YES	0.000e0	0.00000	0.16583	0.0981
Total Penta-Dioxins	30.20	1.068e4	1.286e4	6.422e2	7.180e2	0.89	YES	0.000e0	0.00000	0.38346	0.0981
Total Penta-Dioxins	30.38	6.751e3	1.213e4	3.729e2	6.275e2	0.59	NO	1.000e3	0.32777	0.32777	0.0981
Total Penta-Dioxins	30.47	7.026e3	7.438e3	3.433e2	3.371e2	1.02	YES	0.000e0	0.00000	0.18003	0.0981
Total Penta-Dioxins	30.73	4.465e3	1.001e4	4.687e2	8.968e2	0.52	YES	0.000e0	0.00000	0.39733	0.0981
1,2,3,7,8-PeCDD	31.45	6.169e3	7.021e3	3.110e2	3.279e2	0.95	YES	6.388e2	0.00000	0.17509	0.0981
Total Penta-Dioxins	31.83	2.925e3	2.634e3	1.034e2	1.119e2	0.92	YES	0.000e0	0.00000	0.059760	0.0981

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Y/N	Area	Area	Area	Area
Total Hexa-Dioxins	33.33	1.008e5	8.031e4	5.197e3	4.283e3	1.21	NO	9.480e3	4.2138	4.2138	0.128
Total Hexa-Dioxins	33.89	1.132e4	1.077e4	7.184e2	6.122e2	1.17	NO	1.331e3	0.59145	0.59145	0.128
Total Hexa-Dioxins	34.15	7.183e4	5.587e4	5.164e3	4.156e3	1.24	NO	9.320e3	4.1428	4.1428	0.128
1,2,3,6,7,8-HxCDD	34.94	2.148e4	1.822e4	1.283e3	9.271e2	1.38	NO	2.210e3	0.88437	0.88437	0.116
1,2,3,7,8,9-HxCDD	35.23	1.108e4	7.560e3	5.781e2	4.133e2	1.40	NO	9.913e2	0.44806	0.44806	0.138

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-6D.qld

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Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	TV	Resp	CO	EMPC	DE
Total Hepta-Dioxins	37.76	3.918e5	3.754e5	3.019e4	2.956e4	1.02	NO	5.975e4	40.034	40.034	0.382
1,2,3,4,6,7,8-HpCDD	38.78	3.316e5	3.121e5	2.227e4	2.132e4	1.04	NO	4.359e4	29.207	29.207	0.382

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	TV	Resp	CO	EMPC	DE
Total Tetra-Furans	20.35	4.260e3	4.967e3	2.580e2	2.533e2	1.02	YES	0.000e0	0.00000	0.14428	0.121
Total Tetra-Furans	20.89	1.084e4	1.175e4	8.389e2	1.028e3	0.82	NO	1.867e3	0.60077	0.60077	0.121
Total Tetra-Furans	21.47	3.375e4	4.625e4	3.151e3	4.325e3	0.73	NO	7.476e3	2.4057	2.4057	0.121
Total Tetra-Furans	22.46	1.603e4	1.934e4	1.426e3	2.026e3	0.70	NO	3.452e3	1.1108	1.1108	0.121
Total Tetra-Furans	22.92	1.352e4	2.357e4	1.362e3	1.928e3	0.71	NO	3.291e3	1.0589	1.0589	0.121
Total Tetra-Furans	23.88	4.494e3	6.048e3	3.116e2	4.290e2	0.73	NO	7.406e2	0.23832	0.23832	0.121
Total Tetra-Furans	24.04	1.627e4	2.273e4	1.342e3	1.698e3	0.79	NO	3.039e3	0.97807	0.97807	0.121
Total Tetra-Furans	24.66	6.235e3	9.093e3	5.241e2	5.893e2	0.89	YES	0.000e0	0.00000	0.33563	0.121
Total Tetra-Furans	24.96	2.296e3	2.550e3	1.435e2	1.685e2	0.85	NO	3.121e2	0.10042	0.10042	0.121
Total Tetra-Furans	25.38	2.206e3	2.860e3	1.183e2	2.194e2	0.54	YES	0.000e0	0.00000	0.087537	0.121
2,3,7,8-TCDF	25.60	4.794e3	7.706e3	3.450e2	5.083e2	0.68	NO	8.533e2	0.27457	0.27457	0.121
Total Tetra-Furans	25.98	4.471e3	6.647e3	2.971e2	4.315e2	0.69	NO	7.286e2	0.23446	0.23446	0.121
Total Tetra-Furans	27.61	9.499e3	1.595e4	7.905e2	1.003e3	0.79	NO	1.794e3	0.57720	0.57720	0.121

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	TV	Resp	CO	EMPC	DE
1st Func. Penta-Furans	27.59	2.612e5	1.573e5	1.635e4	1.018e4	1.61	NO	2.653e4	6.1223	6.1223	0.0289

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-6D.qld

Last Altered: Friday, July 17, 2020 10:02:13 AM Pacific Daylight Time

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Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Sum	EMPD	
Total Penta-Furans	29.02	1.713e4	1.369e4	1.054e3	7.405e2	1.42	NO	1.794e3	0.41403	0.41403	0.0683
Total Penta-Furans	29.18	8.896e4	5.912e4	5.829e3	3.853e3	1.51	NO	9.682e3	2.2340	2.2340	0.0683
Total Penta-Furans	29.24	2.106e4	1.139e4	1.016e3	5.824e2	1.74	NO	0.000e0	0.00000	0.36875	0.0683
Total Penta-Furans	29.77	5.145e4	2.763e4	3.146e3	2.005e3	1.57	NO	5.151e3	1.1886	1.1886	0.0683
1,2,3,7,8-PeCDF	30.17	8.311e3	5.435e3	2.834e2	2.735e2	1.04	YES	5.569e2	0.00000	0.10711	0.0673
Total Penta-Furans	30.44	1.804e4	1.161e4	1.231e3	8.513e2	1.45	NO	2.082e3	0.48041	0.48041	0.0683
Total Penta-Furans	31.04	8.797e3	6.533e3	4.237e2	3.160e2	1.34	NO	7.397e2	0.17067	0.17067	0.0683
2,3,4,7,8-PeCDF	31.16	3.316e4	2.496e4	9.089e2	6.722e2	1.35	NO	1.581e3	0.34989	0.34989	0.0661
Total Penta-Furans	31.18	4.515e4	2.937e4	1.976e3	1.374e3	1.44	NO	3.350e3	0.77298	0.77298	0.0683

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Sum	EMPD	
Total Hexa-Furans	32.78	6.318e4	5.169e4	3.287e3	2.694e3	1.22	NO	5.981e3	2.1899	2.1899	0.123
Total Hexa-Furans	32.95	1.760e5	1.458e5	9.041e3	7.471e3	1.21	NO	1.651e4	6.0457	6.0457	0.123
Total Hexa-Furans	33.49	1.798e5	1.432e5	9.043e3	7.332e3	1.23	NO	1.637e4	5.9953	5.9953	0.123
1,2,3,4,7,8-HxCDF	33.96	2.282e4	2.343e4	1.205e3	1.184e3	1.02	YES	2.389e3	0.00000	0.84904	0.116
1,2,3,6,7,8-HxCDF	34.08	2.040e4	1.408e4	1.129e3	9.252e2	1.22	NO	2.054e3	0.67094	0.67094	0.105
2,3,4,6,7,8-HxCDF	34.68	2.176e4	1.964e4	1.260e3	1.068e3	1.18	NO	2.328e3	0.84404	0.84404	0.123
1,2,3,7,8,9-HxCDF	35.60	4.387e3	2.762e3	9.518e1	6.115e1	1.56	YES	1.563e2	0.00000	0.065533	0.183
Total Hexa-Furans	35.61	5.886e3	3.294e3	2.561e2	1.594e2	1.61	YES	0.000e0	0.00000	0.13074	0.123

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Sum	EMPD	
1,2,3,4,6,7,8-HpCDF	37.37	2.344e5	2.366e5	1.661e4	1.654e4	1.00	NO	3.315e4	19.455	19.455	0.240
Total Hepta-Furans	37.97	1.438e5	1.473e5	1.126e4	1.153e4	0.98	NO	2.279e4	16.167	16.167	0.275
1,2,3,4,7,8,9-HpCDF	39.32	4.754e3	3.253e3	2.317e2	1.981e2	1.17	NO	4.298e2	0.33235	0.33235	0.284

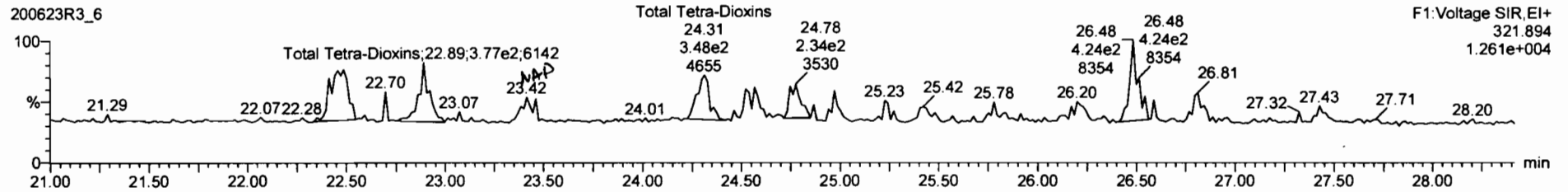
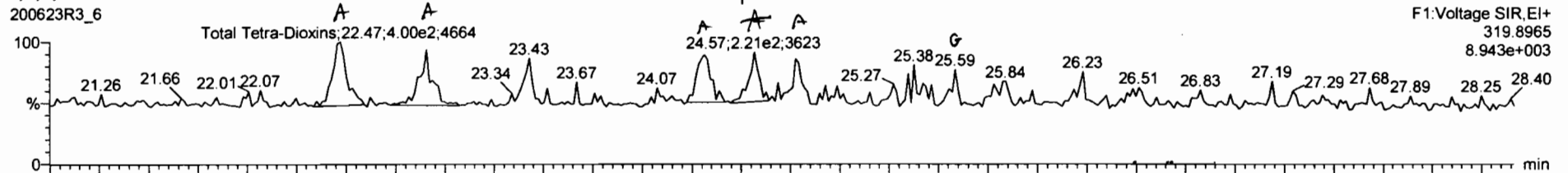
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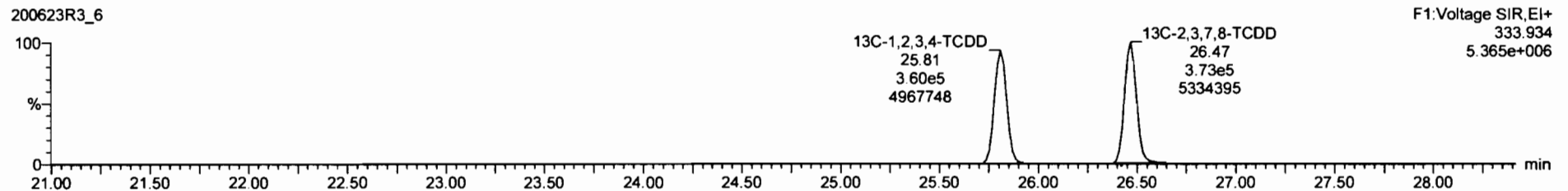
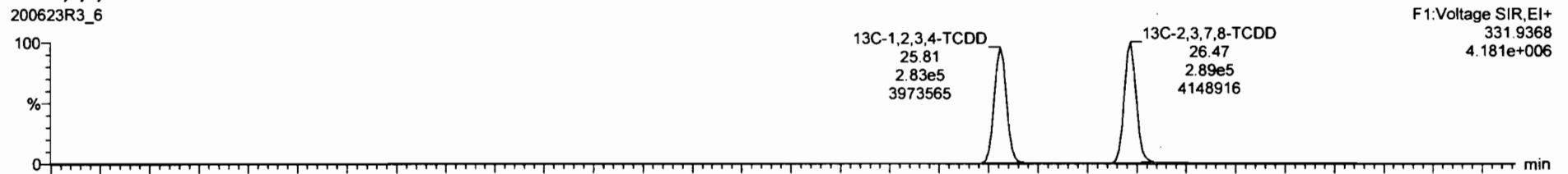
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Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

2,3,7,8-TCDD

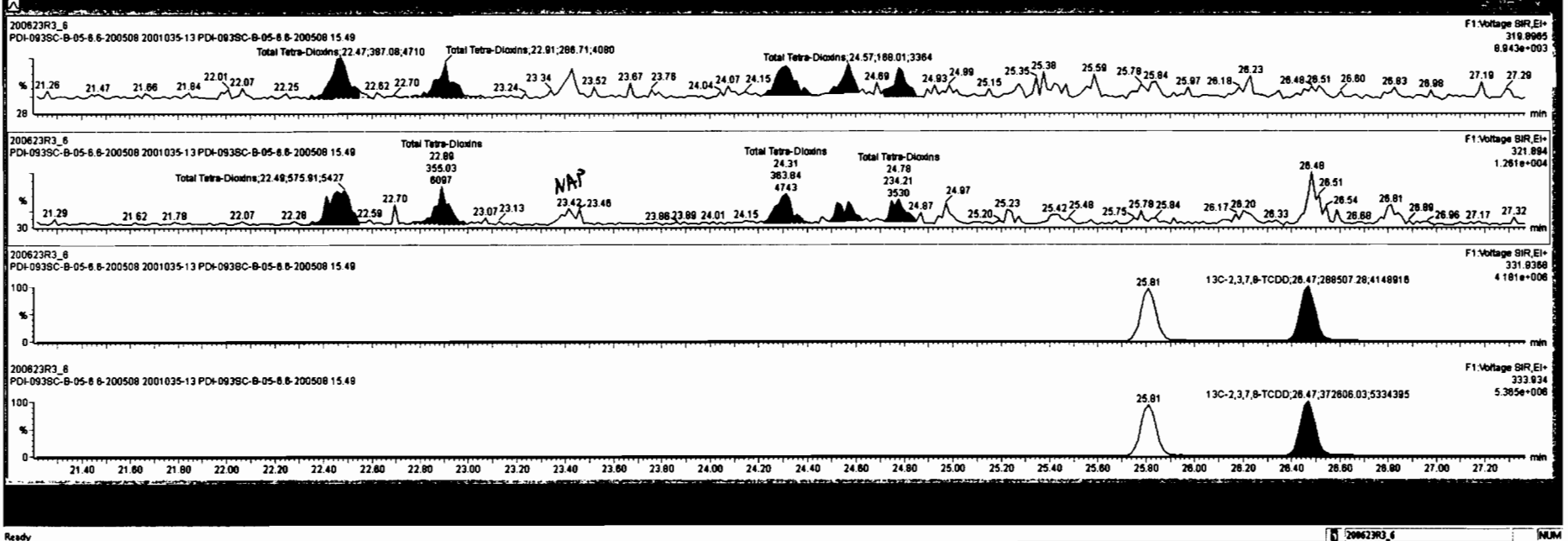


13C-2,3,7,8-TCDD



Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration
43	Total Penta-Dioxine	0.8081	10.120	28.98		0.328	0.0879	2.17
44	Total Hexa-Dioxine	0.8623	10.120	33.83		9.47	0.127	9.84
45	Total Hepta-Dioxine	0.8638	10.120	37.84		88.2	0.384	88.5
46	Total Tetra-Furane	0.7510	10.120	23.81		7.03	0.120	8.18
47	1st Func. Penta-Furane	0.8625	10.120	27.58		6.11	0.0289	6.11
48	Total Penta-Furane	0.8625	10.120	28.27		5.93	0.0881	8.04
49	Total Hexa-Furane	0.8341	10.120	32.58		15.7	0.123	18.6
50	Total Hepta-Furane	0.8754	10.120	37.84		30.3	0.133	30.3

Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration
1	Total Tetra-Dioxine	22.47	3.871e2	5.758e2	0.87	NO	0.32405	0.32405
2	Total Tetra-Dioxine	22.81	2.887e2	3.550e2	0.81	NO	0.21585	0.21585
3	Total Tetra-Dioxine	24.31	3.027e2	3.838e2	0.83	NO	0.22430	0.22430
4	Total Tetra-Dioxine	24.57	1.890e2	2.181e2	0.77	NO	0.12683	0.12683

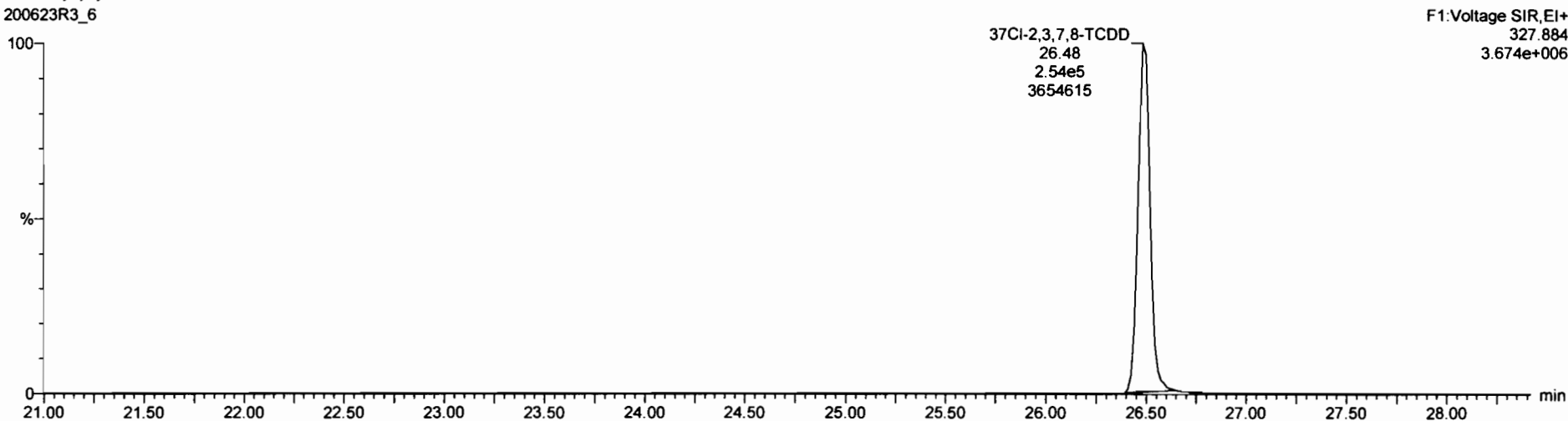


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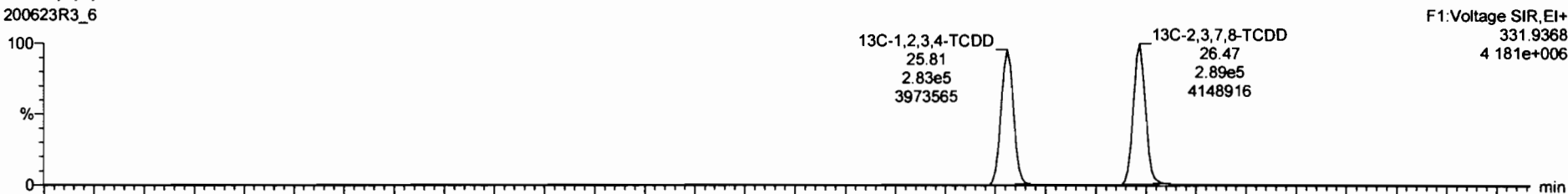
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Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

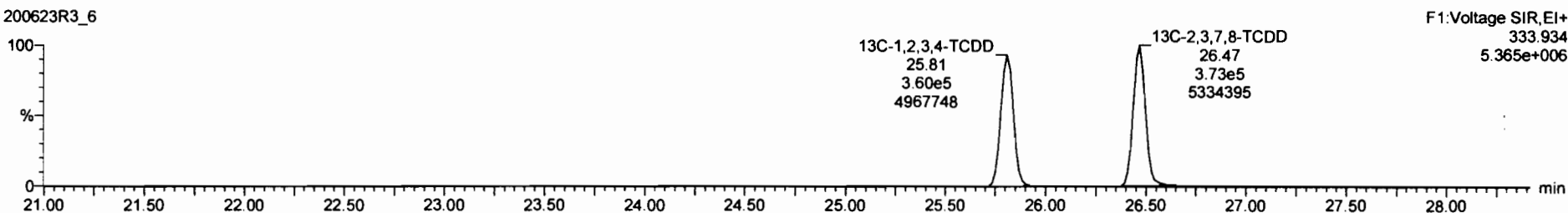
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200623R3_6



13C-1,2,3,4-TCDD
200623R3_6



200623R3_6



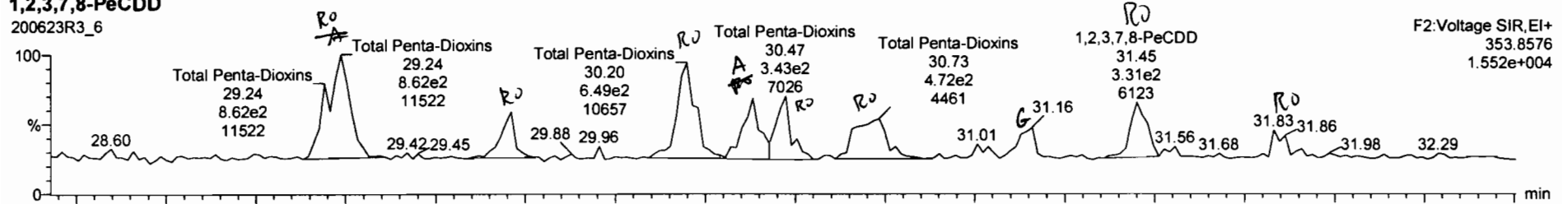
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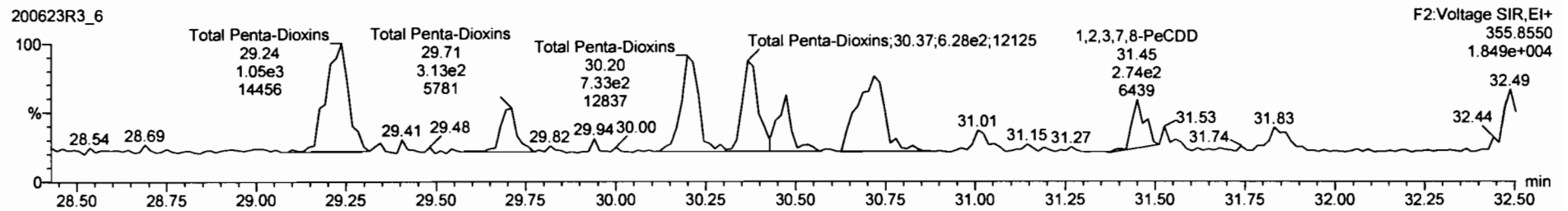
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1,2,3,7,8-PeCDD

200623R3_6

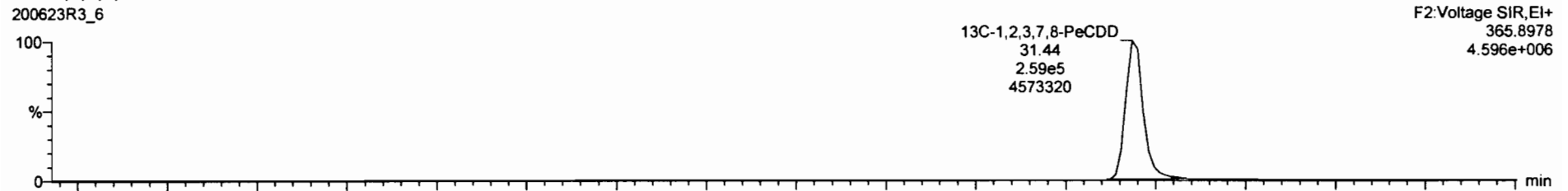


200623R3_6

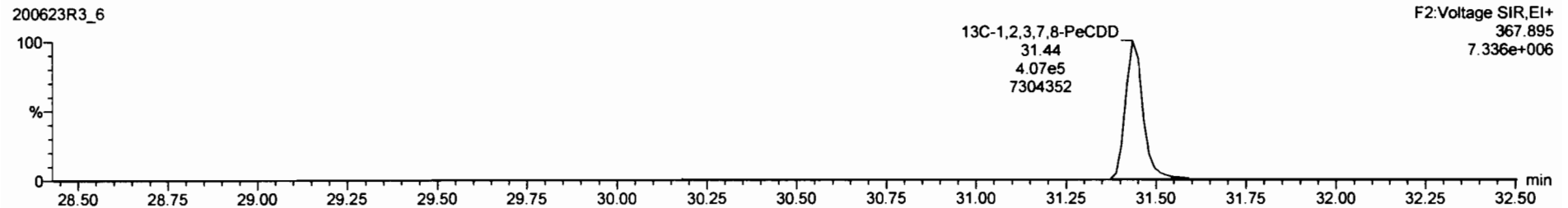


13C-1,2,3,7,8-PeCDD

200623R3_6

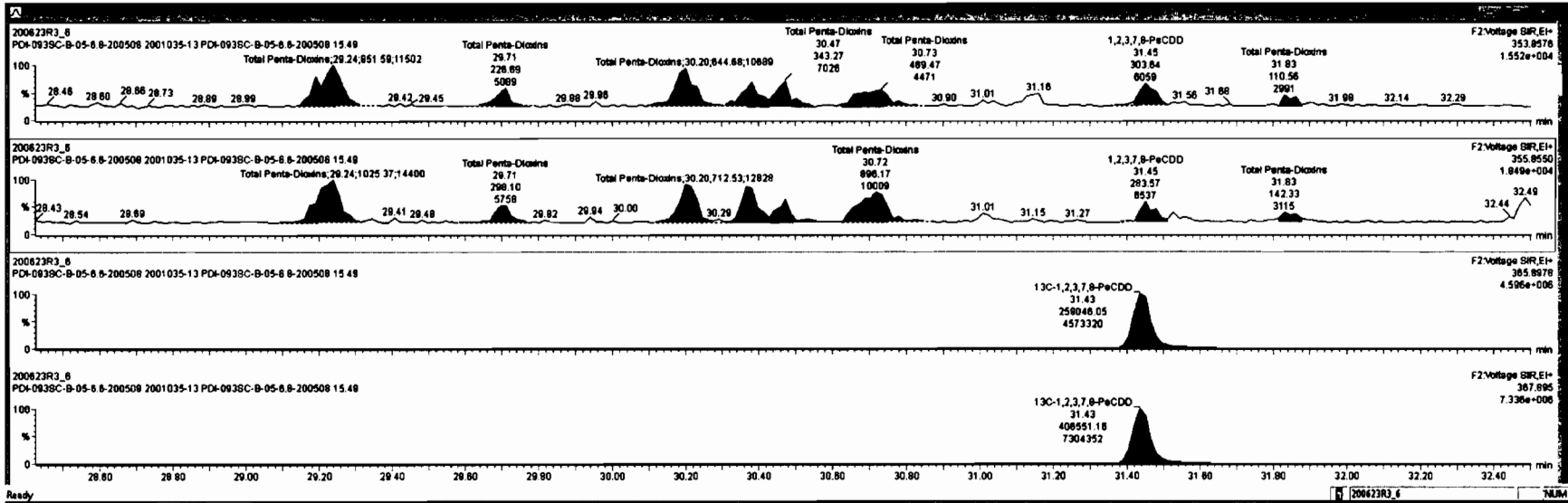


200623R3_6



Sample	Concentration	Area	Height	Retention Time	Response	Integration	Integration	
100	Total Tetra-Dioxins	0.8663	10.120	24.82		1.04	0.117	1.04
101	Total Hexa-Dioxins	0.8923	10.120	33.83		9.47	0.127	9.84
102	Total Hepta-Dioxins	0.8630	10.120	37.84		88.2	0.304	88.5
103	Total Tetra-Furans	0.7510	10.120	23.81		7.03	0.120	8.18
104	Total Penta-Furans	0.8625	10.120	27.58		8.11	0.0268	8.11
105	Total Hexa-Furans	0.8625	10.120	28.27		5.83	0.0881	6.04
106	Total Hepta-Furans	0.8341	10.120	33.58		15.7	0.123	16.8

Sample	Concentration	Area	Height	Retention Time	Response	Integration	Integration	
100	Total Penta-Dioxins	29.24	8.516e2	1.025e3	0.83	YES	0.54648	0.00000
101	Total Penta-Dioxins	29.71	2.287e2	2.981e2	0.78	YES	0.15887	0.00000
102	Total Penta-Dioxins	30.20	8.447e2	7.125e2	0.80	YES	0.37875	0.00000
103	Total Penta-Dioxins	30.28	3.732e2	6.275e2	0.59	NO	0.32721	0.32721
104	Total Penta-Dioxins	30.47	3.433e2	3.428e2	1.00	YES	0.18273	0.00000
105	Total Penta-Dioxins	30.73	4.885e2	8.982e2	0.62	YES	0.38715	0.00000
106	1,2,3,7,8-PeCDD	31.45	3.036e2	2.836e2	1.07	YES	0.15113	0.00000



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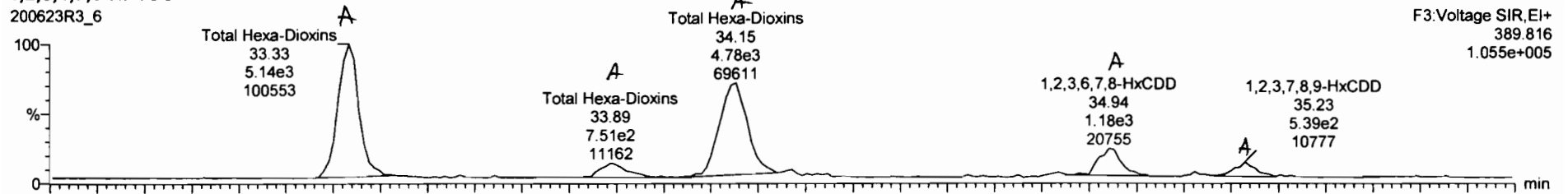
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Printed: Wednesday, June 24, 2020 08:16:33 Pacific Daylight Time

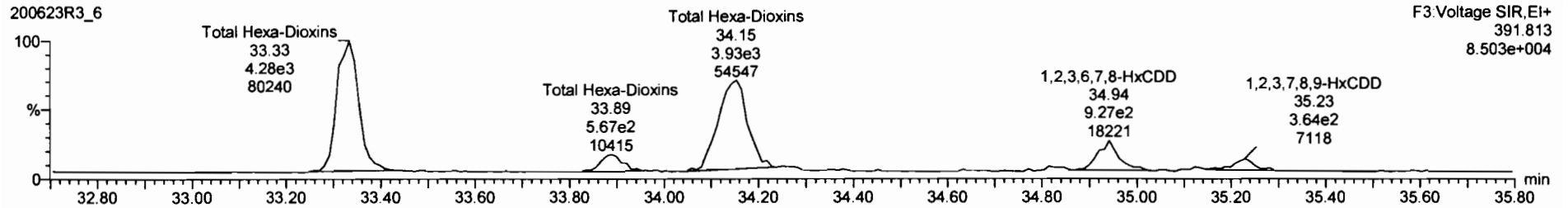
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1,2,3,4,7,8-HxCDD

200623R3_6

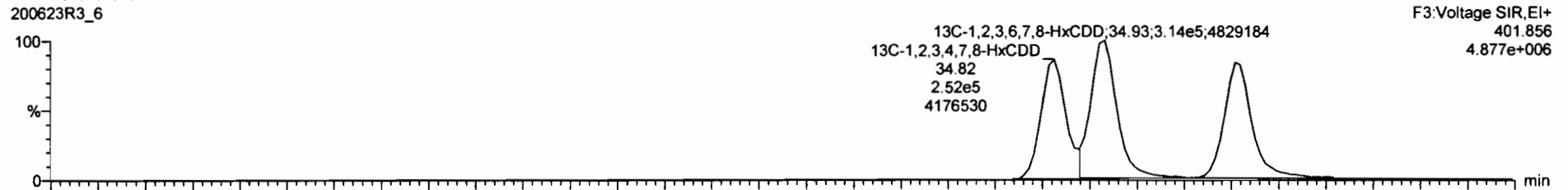


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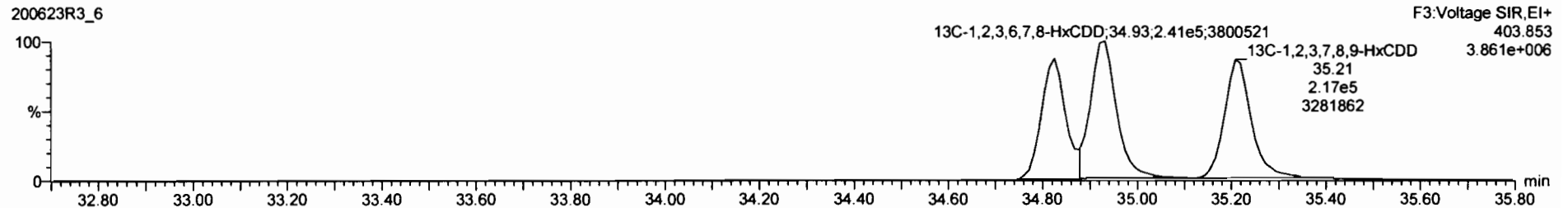


13C-1,2,3,4,7,8-HxCDD

200623R3_6



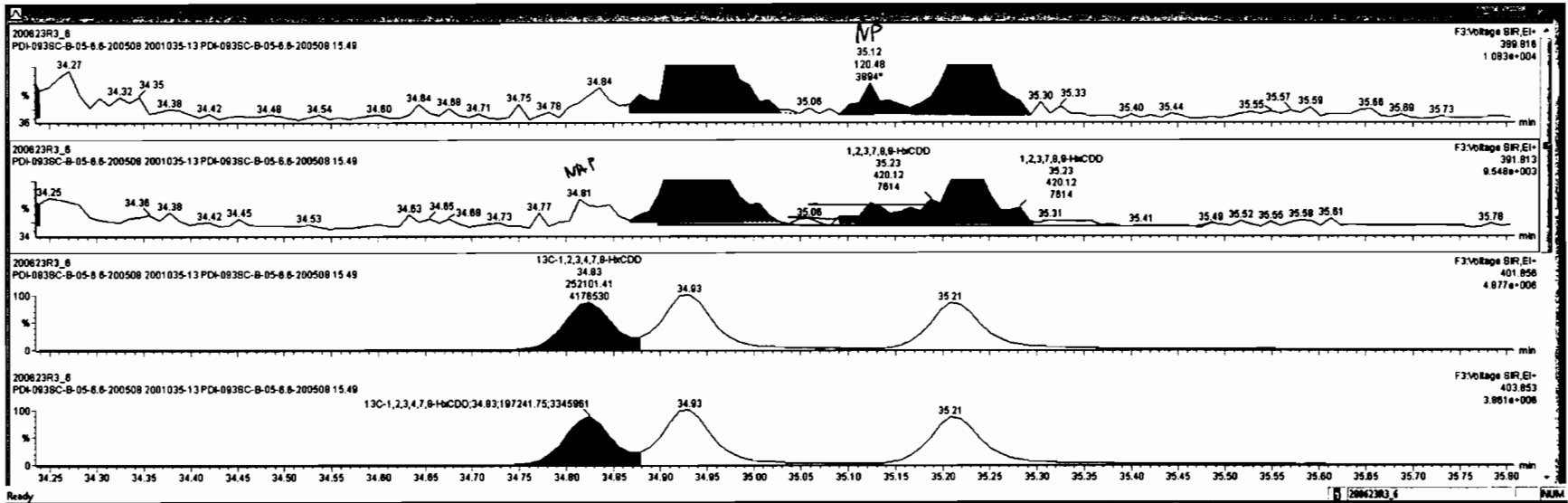
200623R3_6



File Edit View Display Processing Window Help

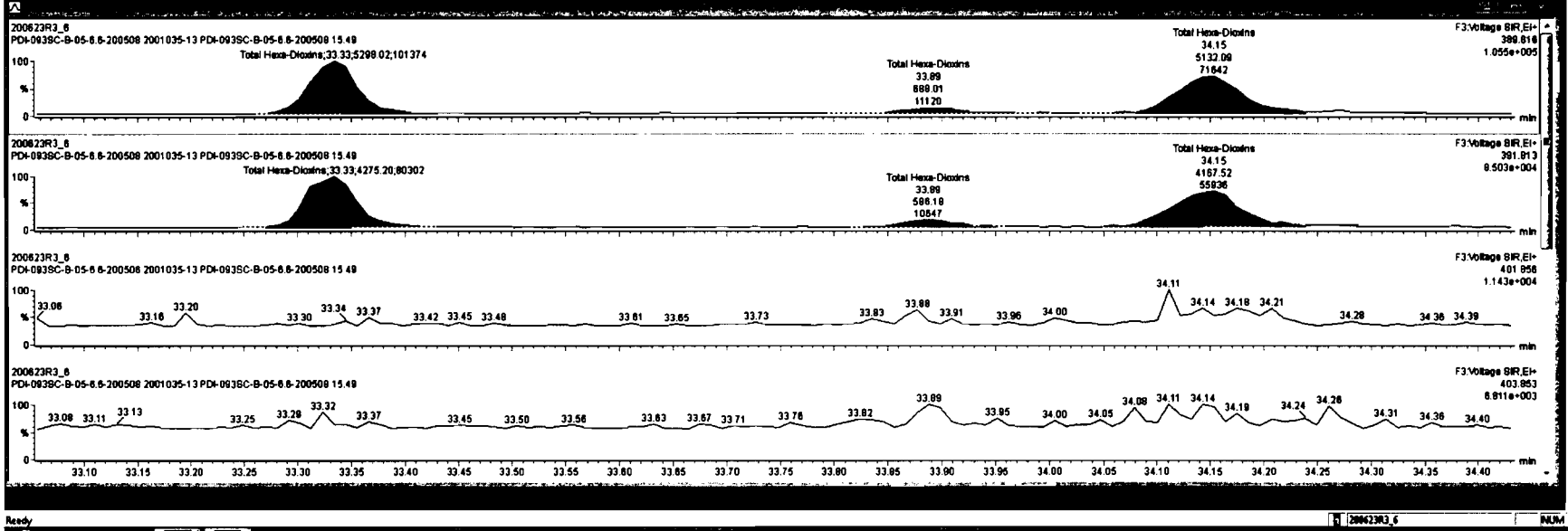
RT	Area	Height	W	Area%	Height%	W%	Area%	Height%	W%
34.27									
34.32									
34.35									
34.38									
34.42									
34.48									
34.54									
34.80									
34.84									
34.88									
34.71									
34.75									
34.78									
34.84									
35.06									
35.12									
120.48									
398.4									
35.30									
35.33									
35.40									
35.44									
35.55									
35.57									
35.59									
35.68									
35.88									
35.73									

RT	Area	Height	W	Area%	Height%	W%	Area%	Height%	W%
33.33	5.28963	4.27563	1.24	NO	4.2468	4.2468			
33.89	8.88962	5.86262	1.15	NO	0.58988	0.58988			
34.15	5.12963	4.18863	1.23	NO	4.1253	4.1253			
34.84	1.24863	8.42462	1.33	NO	0.87410	0.87410			
35.23	5.85962	4.20162	1.42	NO	0.46808	0.46808			



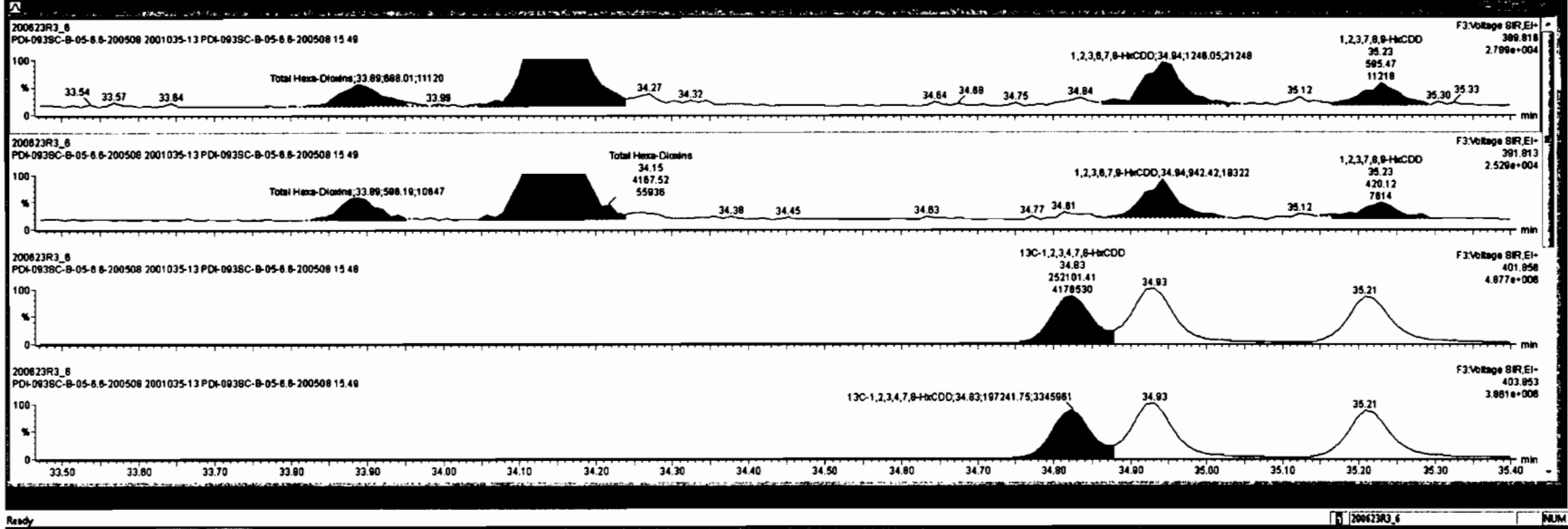
Peak #	Retention Time (min)	Area	Height	Width	Height/Width	Area/Height	Height/Width
22	10.120	37.64	68.2	0.364	68.5		
23	10.120	23.81	7.03	0.120	8.19		
24	10.120	27.88	8.11	0.2280	8.11		
25	10.120	20.27	5.83	0.2881	6.04		
26	10.120	33.58	15.7	0.123	16.8		
27	10.120	37.83	36.3	0.273	36.3		

Peak #	Retention Time (min)	Area	Height	Width	Height/Width	Area/Height	Height/Width	
28	33.33	5.208e3	4.275e3	1.24	NO	4.2466	4.2466	
29	33.89	8.880e2	5.862e2	1.15	NO	0.50958	0.50958	
30	34.15	5.132e3	4.190e3	1.25	NO	4.1253	4.1253	
31	1,2,3,6,7,8-HxCDD	34.94	1.248e3	9.424e2	1.32	NO	0.87410	0.87410
32	1,2,3,7,8-HxCDD	35.23	5.959e2	4.201e2	1.42	NO	0.46808	0.46808



Peak	Retention	Area	Height	Width	Height	Area	Height	Width
1	33.54	...	...	...	...	...	...	...
2	33.57	...	...	...	...	...	...	...
3	33.84	...	...	...	...	...	...	...
4	33.98	...	...	...	...	...	...	...
5	34.27	...	...	...	...	...	...	...
6	34.32	...	...	...	...	...	...	...
7	34.64	...	...	...	...	...	...	...
8	34.88	...	...	...	...	...	...	...
9	34.75	...	...	...	...	...	...	...
10	34.84	...	...	...	...	...	...	...
11	35.12	...	...	...	...	...	...	...
12	35.30	...	...	...	...	...	...	...
13	35.33	...	...	...	...	...	...	...

Peak	Retention	Area	Height	Width	Height	Area	Height	Width
14	33.33	5.209e3	4.275e3	1.24	NO	4.249e	4.249e	
15	33.89	8.893e2	5.862e2	1.15	NO	0.5899e	0.5899e	
16	34.15	5.132e3	4.189e3	1.32	NO	4.1253	4.1253	
17	34.94	1.249e3	8.434e2	1.32	NO	0.8741e	0.8741e	
18	35.23	5.956e2	4.201e2	1.42	NO	0.4593e	0.4593e	



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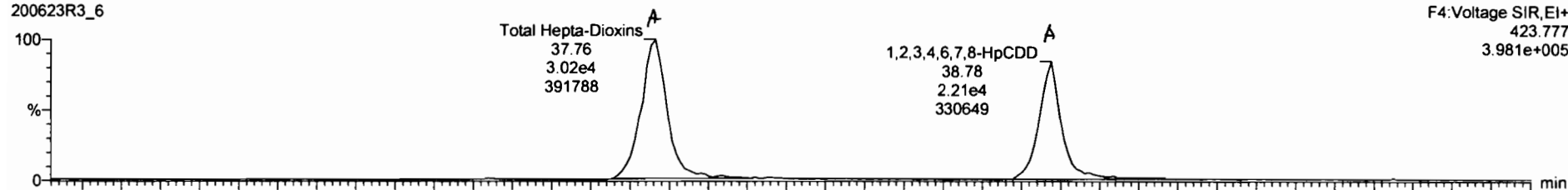
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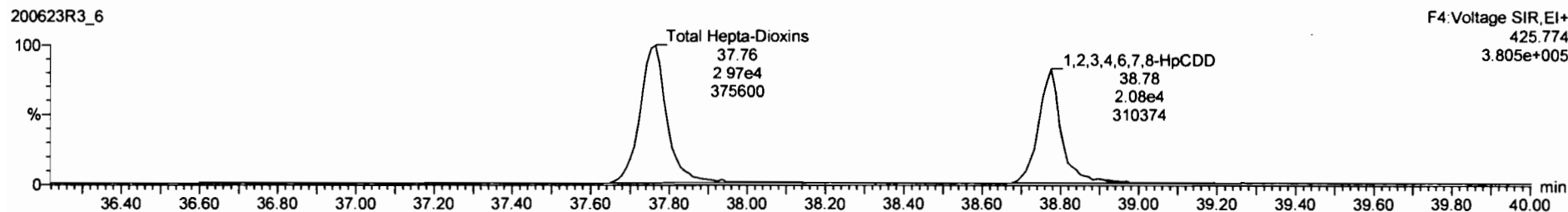
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1,2,3,4,6,7,8-HpCDD

200623R3_6

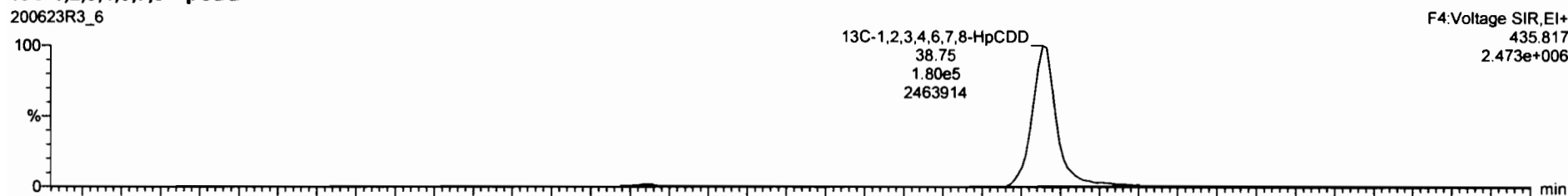


200623R3_6

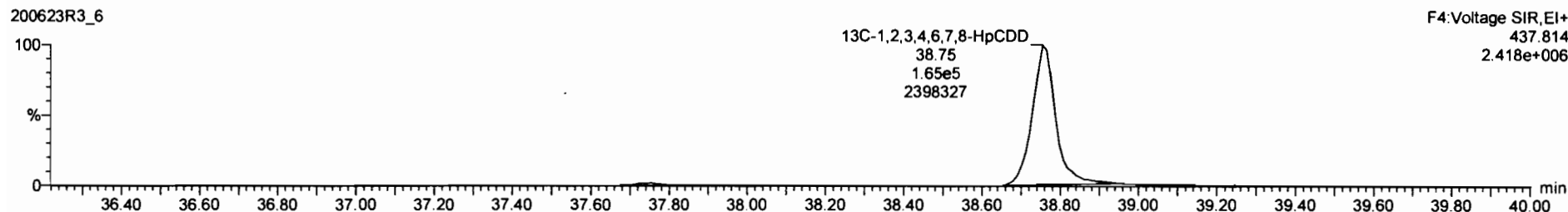


13C-1,2,3,4,6,7,8-HpCDD

200623R3_6

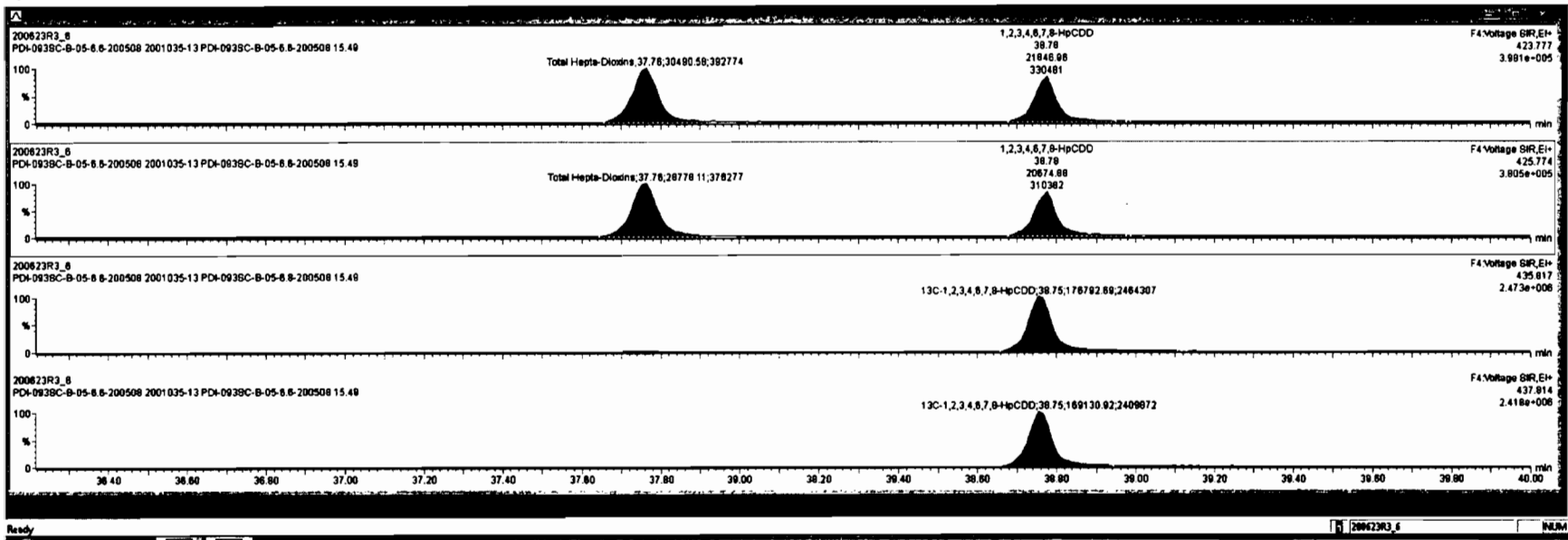


200623R3_6



Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration
1	Total Hepta-Dioxins	0.8623	10.120	33.83		10.3		0.127
2	Total Hepta-Furans	0.7910	10.120	23.81		7.03		0.120
3	1st Furans, Hepta-Furans	0.8625	10.120	27.58		8.11		0.0280
4	Total Hepta-Furans	0.8625	10.120	29.27		8.93		0.0881
5	Total Hepta-Furans	0.8341	10.120	33.58		15.7		0.123
6	Total Hepta-Furans	0.8734	10.120	37.83		36.3		0.273

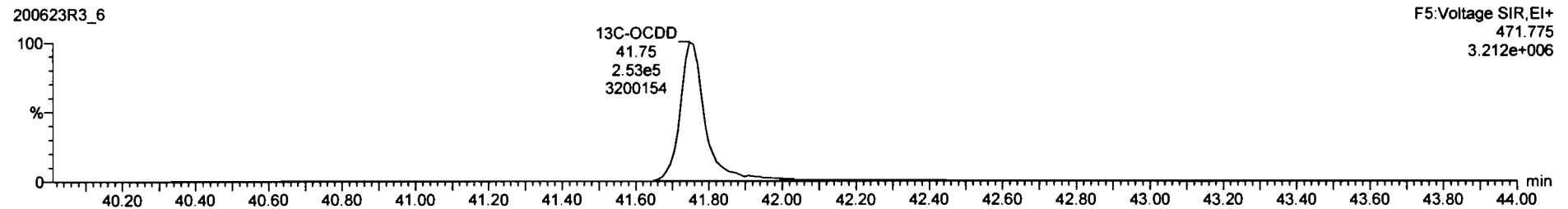
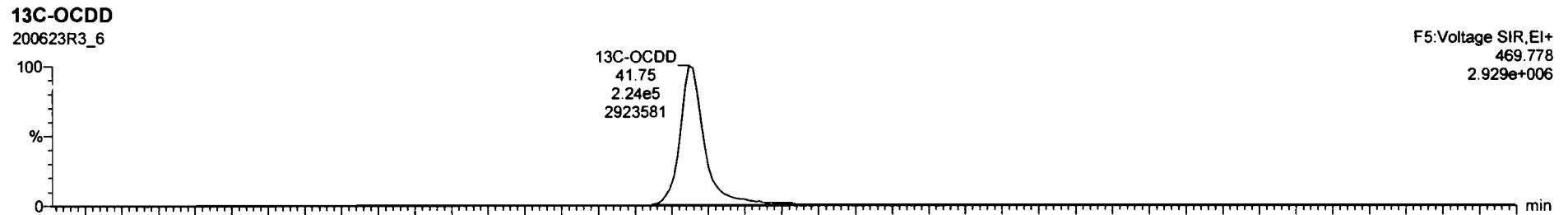
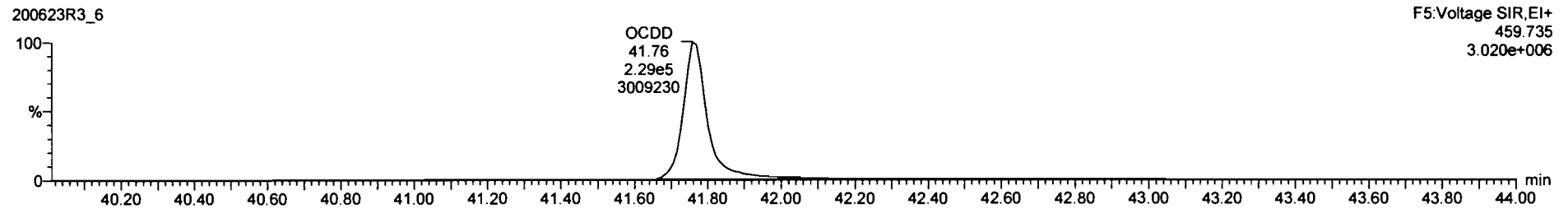
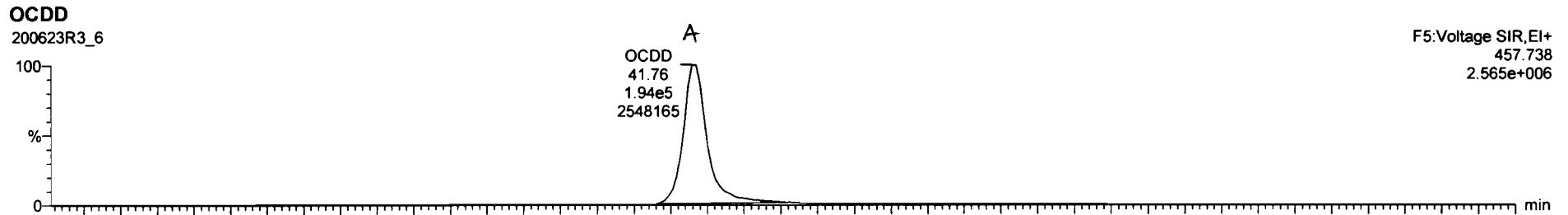
Peak	Name	Area	Height	Width	Retention	Integration	Integration
1	Total Hepta-Dioxins	37.76	3.049e4	2.870e4	1.02	NO	38.855
2	1,2,3,4,6,7,8-HpCDD	38.78	2.165e4	2.087e4	1.08	NO	28.118



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Last Altered: Wednesday, June 24, 2020 08:16:04 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 08:16:33 Pacific Daylight Time

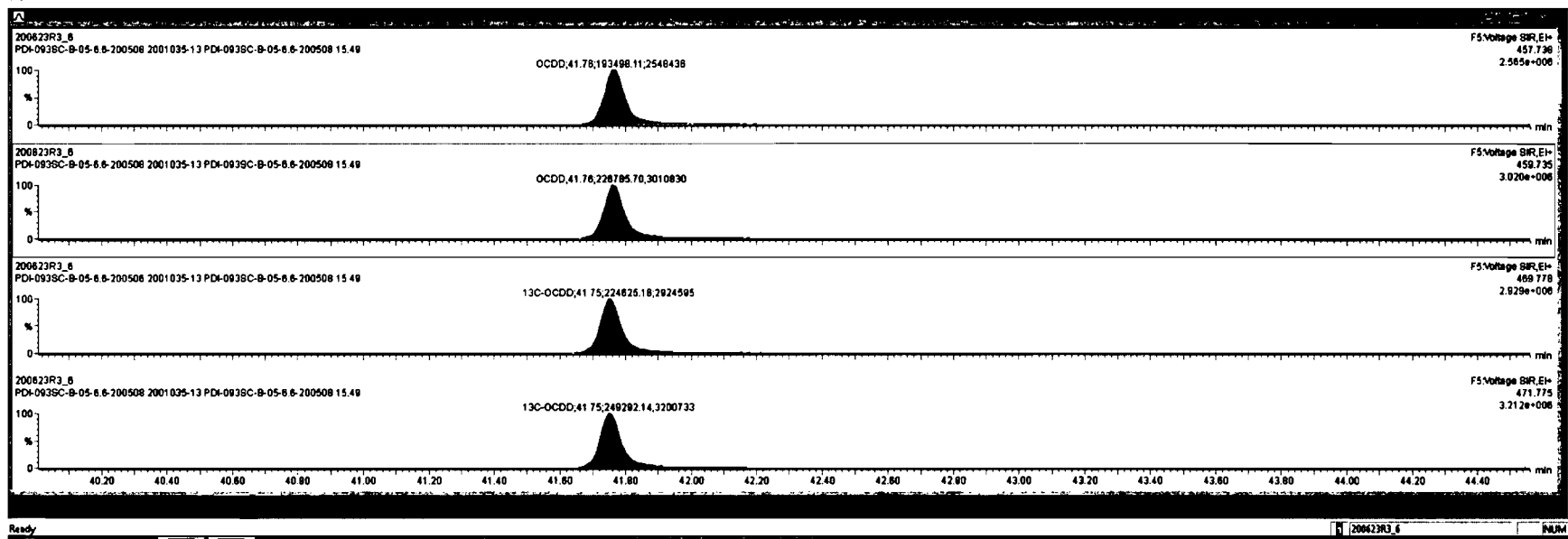
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PK	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%
1	25.7	8.83e2	0.88	NO	0.7510	10.120	25.80	25.80	1.001	0.277
2	12.37	5.59e2	1.07	YES	0.8625	10.120	30.17	30.17	1.001	0.126
3	23.47	4.89e3	1.43	NO	0.8348	10.120	31.18	31.18	1.001	1.10
4	12.34	2.48e3	1.02	YES	0.8845	10.120	33.95	33.95	1.000	0.899
5	12.36	1.97e3	1.25	NO	0.8862	10.120	34.08	34.08	1.000	0.842
6	23.37	2.51e3	1.12	NO	0.8341	10.120	34.88	34.88	1.001	0.808
7	23.37			NO	0.8707	10.120	35.58			0.183

Name	RT	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%



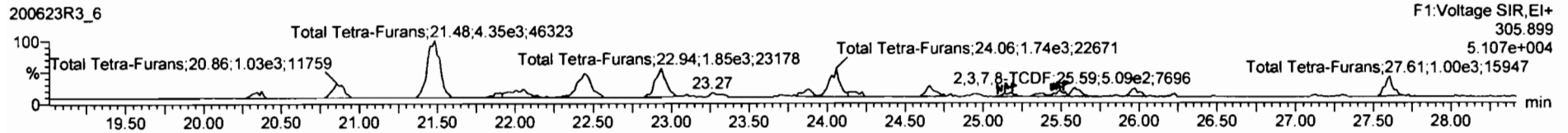
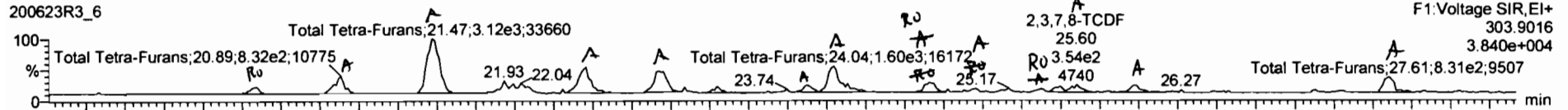
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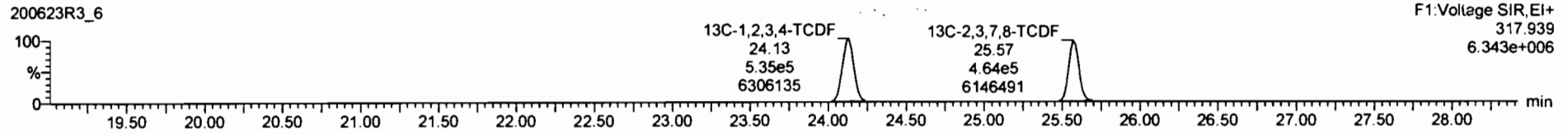
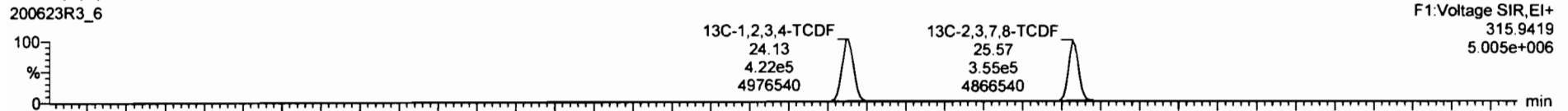
Printed: Wednesday, June 24, 2020 08:16:33 Pacific Daylight Time

Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

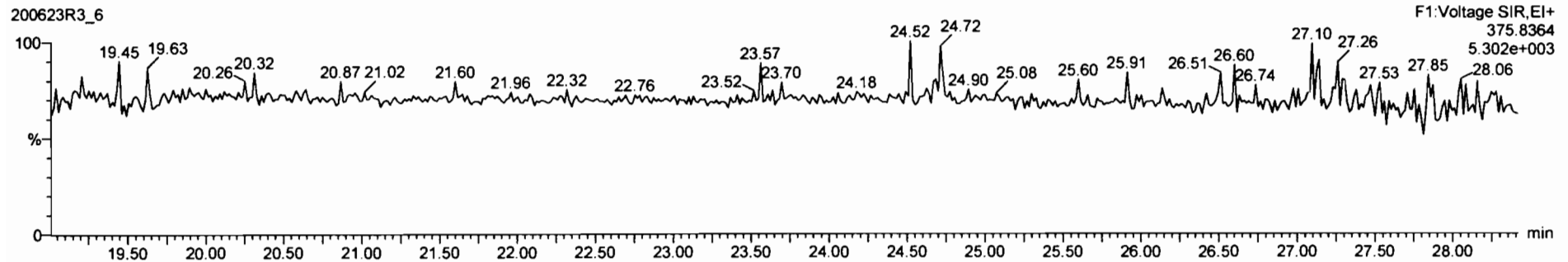
2,3,7,8-TCDF



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

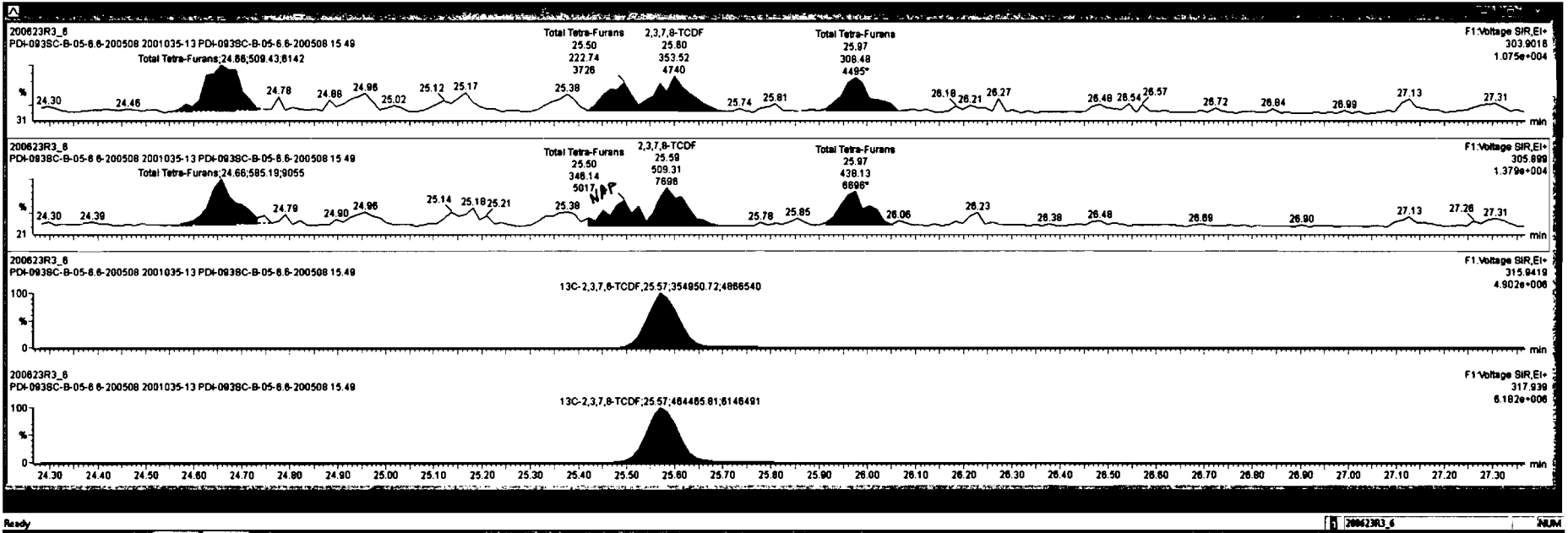


DPE1



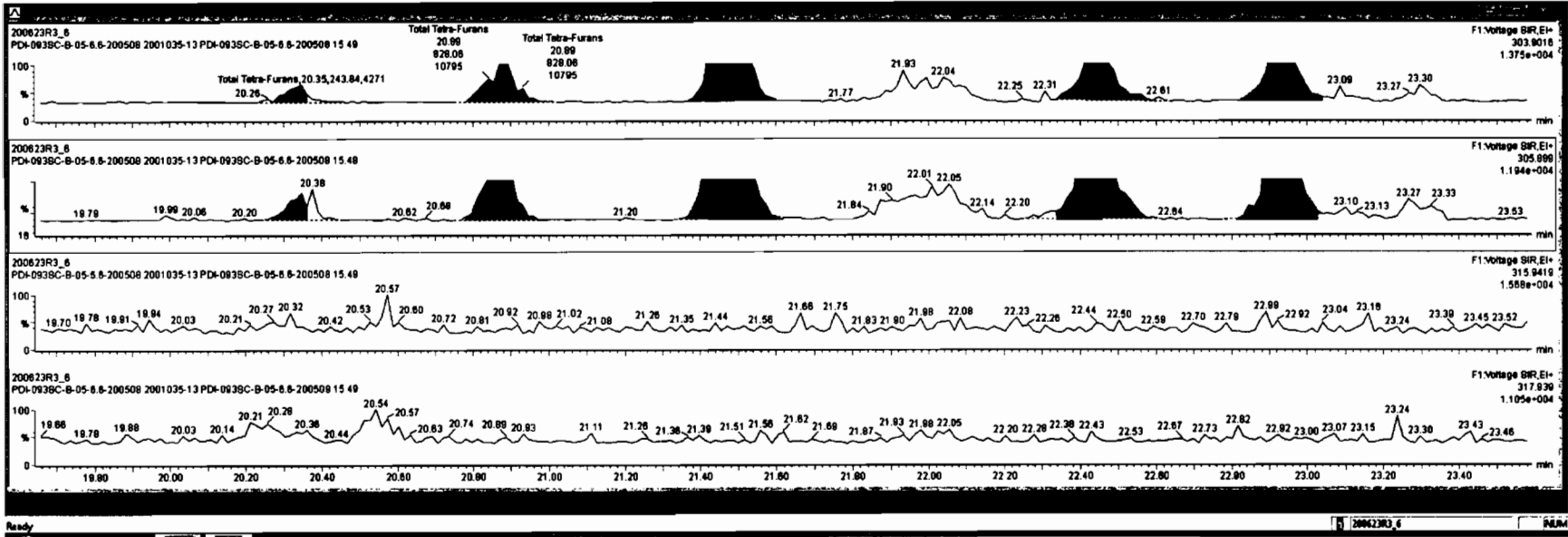
Area	1st Func.	Peak-Furans	Area	Height	Width	Area	Height	Width
64	1st Func.	Peak-Furans	0.8925	10.120	27.58	8.11	0.0289	6.11
65	Total	Peak-Furans	0.8925	10.120	29.27	5.93	0.0891	6.04
66	Total	Hexa-Furans	0.8341	10.120	33.58	15.7	0.123	16.6
67	Total	Hepta-Furans	0.8734	10.120	37.83	36.3	0.273	36.3
68	PPK1							
69	PPK2							
70	PPK3							

Name	RT	Int Peak	Int Comp	RA	Qty	Area	Height
Total Tetra-Furans	20.35	3.047e2	3.991e2	0.76	NO	0.22803	0.22803
Total Tetra-Furans	20.89	6.281e2	1.029e3	0.80	NO	0.58954	0.58954
Total Tetra-Furans	21.47	3.124e3	4.399e3	0.71	NO	2.4084	2.4084
Total Tetra-Furans	22.48	1.348e3	2.017e3	0.87	NO	1.0807	1.0807
Total Tetra-Furans	22.92	1.384e3	1.950e3	0.70	NO	1.0842	1.0842



Item	Area	Height	Width	Area%	Height%	Width%
44: 1st Func: Penta-Furans	0.8625	10.120	27.68	8.11	0.0286	8.11
45: Total Penta-Furans	0.8625	10.120	28.27	5.83	0.0881	8.04
46: Total Hexa-Furans	0.8241	10.120	33.58	15.7	0.1221	18.6
47: Total Hepta-Furans	0.8734	10.120	37.83	36.3	0.273	36.3
48: PFK1						
49: PFK2						
50: PFK3						
51: Inerts						

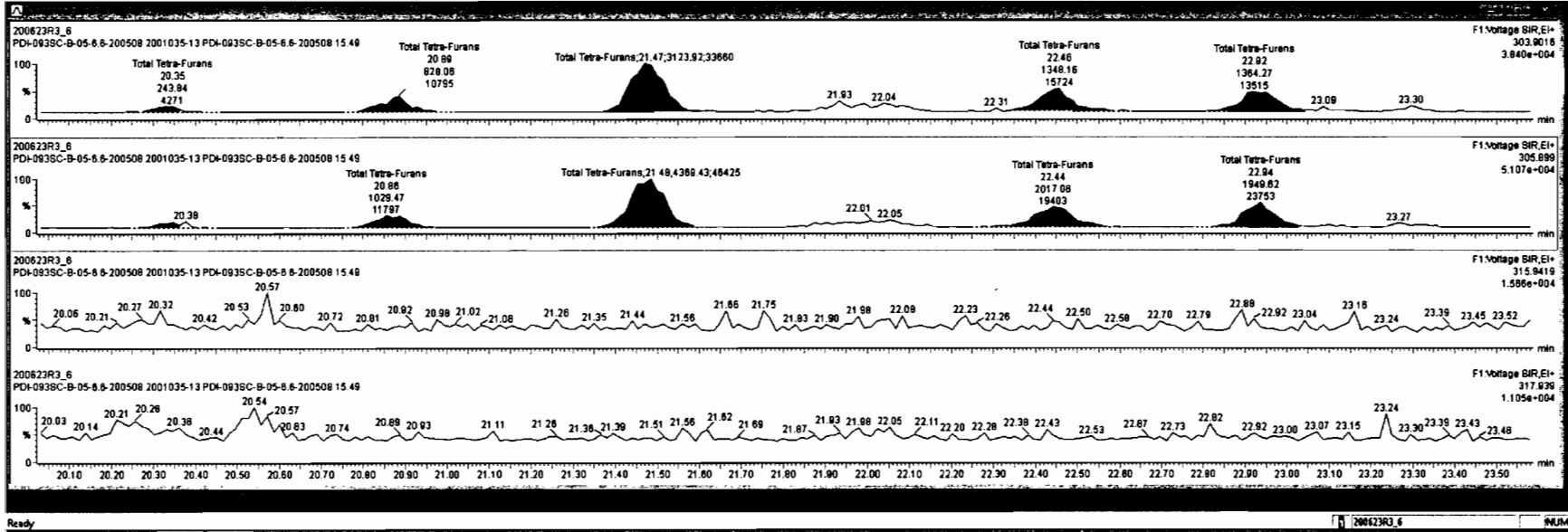
Item	Name	RT	Int	Area	Height	Width	Area%	Height%	Width%
1	Total Tetra-Furans	20.35	2.439e2	2.553e2	0.85	YES	0.14511	0.00000	
2	Total Tetra-Furans	20.88	8.281e2	1.229e3	0.80	NO	0.88854	0.88854	
3	Total Tetra-Furans	21.47	3.174e3	4.388e3	0.71	NO	2.4084	2.4084	
4	Total Tetra-Furans	22.48	1.348e3	2.017e3	0.67	NO	1.0807	1.0807	
5	Total Tetra-Furans	22.82	1.384e3	1.980e3	0.70	NO	1.0842	1.0842	

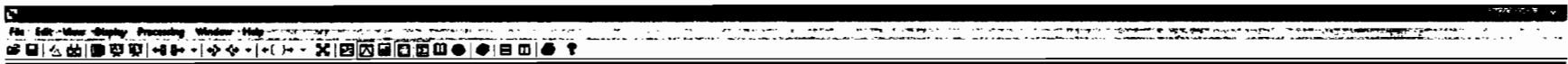




Name	RT	Area	Height	W	Area%	Height%	Area%	Height%			
45	1st Func. Penta-Furans				0.8925	10.120	27.58		6.11	0.0288	8.11
46	Total Penta-Furans				0.8925	10.120	29.27		5.93	0.0681	8.04
47	Total Hexa-Furans				0.8341	10.120	33.56		15.7	0.123	18.8
48	Total Hepta-Furans				0.8734	10.120	37.83		36.3	0.273	38.3
49	PFY1										
50	PFY2										
51	PFY3										
52	Hexa										

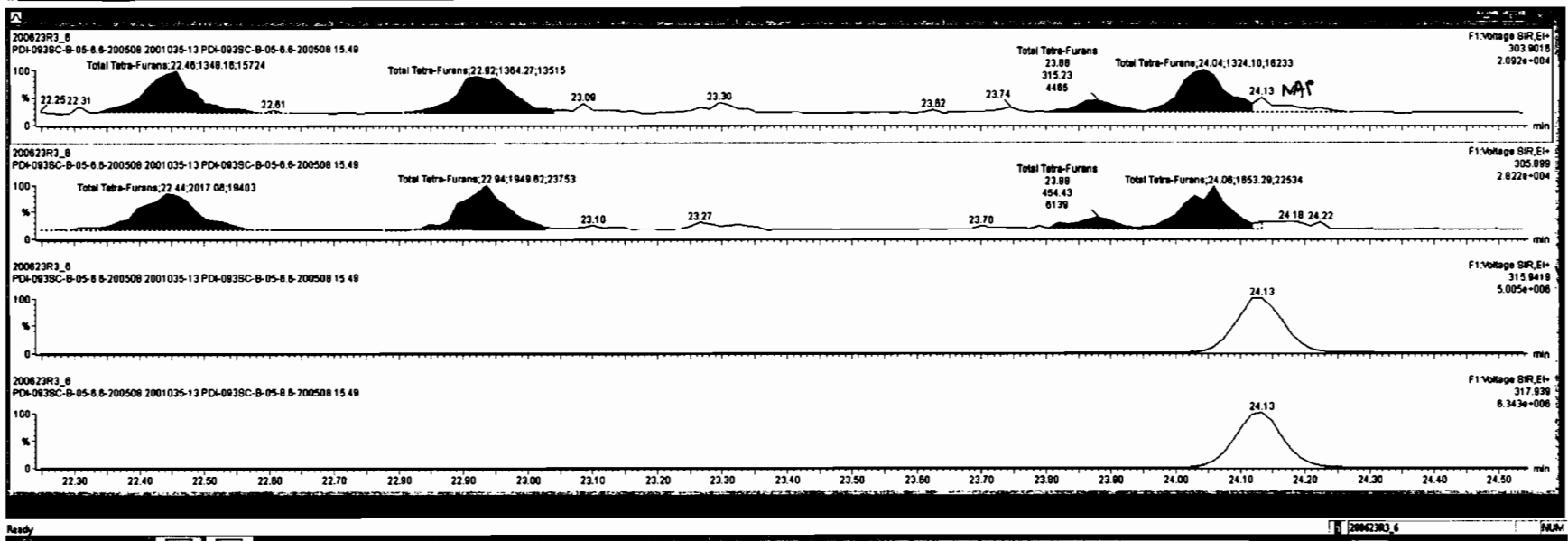
Name	RT	Area	Height	W	Area%	Height%	Area%	Height%
1	Total Tetra-Furans	20.35	2.439e2	2.553e2	0.96	YES	0.14511	0.00000
2	Total Tetra-Furans	20.89	8.261e2	1.029e3	0.80	NO	0.58854	0.58854
3	Total Tetra-Furans	21.47	3.124e3	4.389e3	0.71	NO	2.4094	2.4094
4	Total Tetra-Furans	22.46	1.348e3	2.017e3	0.67	NO	1.0807	1.0807
5	Total Tetra-Furans	22.82	1.364e3	1.950e3	0.70	NO	1.0642	1.0642





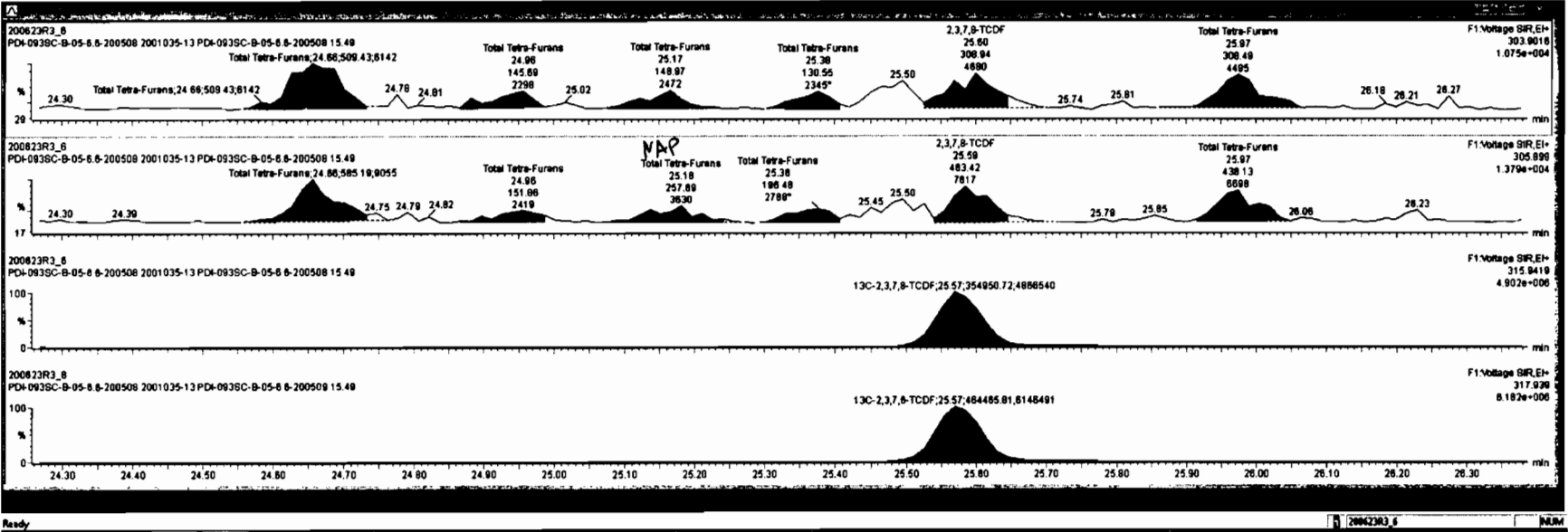
Peak	Area	Height	Retention	Integration	Height	Area	Integration
Total Penta-Furans	0.8625	10.130	27.58		6.11	0.0288	6.11
Total Penta-Furans	0.8625	10.130	28.27		5.93	0.0881	6.04
Total Hexa-Furans	0.9341	10.130	33.58		15.7	0.120	16.8
Total Hepta-Furans	0.8734	10.130	37.83		36.3	0.273	36.3
PFK1							
PFK2							
PFK3							
PFK4							

Peak	Area	Height	Retention	Integration	Height	Area	Integration
Total Tetra-Furans	20.26	2.438e2	2.553e2	0.80	YES	0.14511	0.00000
Total Tetra-Furans	20.89	8.281e2	1.028e3	0.80	NO	0.58854	0.98854
Total Tetra-Furans	21.47	3.124e3	4.368e3	0.71	NO	2.4054	2.4054
Total Tetra-Furans	22.46	1.348e3	2.017e3	0.87	NO	1.0807	1.0807
Total Tetra-Furans	22.92	1.384e3	1.960e3	0.70	NO	1.0842	1.0842



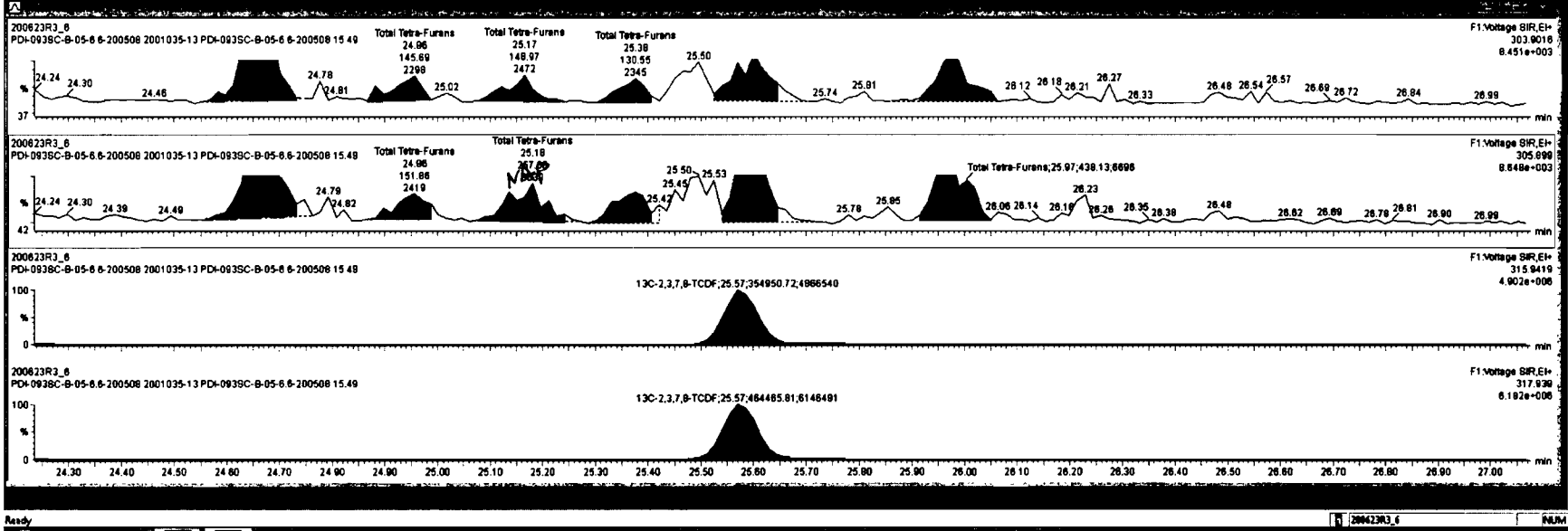
RT	Area	Height	Width	Area%	Height%	Width%
46	1st Func. Penta-Furans			0.8625	10.120	27.58
46	Total Penta-Furans			0.8625	10.120	29.27
47	Total Hexa-Furans			0.8341	10.120	33.56
47	Total Hepta-Furans			0.8734	10.120	37.85
48	PFK1					
49	PFK2					
50	PFK3					
51	PFK4					

Name	RT	Int Resp	Ext Resp	RR	Adj	SNPC	Caps
Total Tetra-Furans	20.35	2.439e2	2.553e2	0.96	YES	0.14511	0.00000
Total Tetra-Furans	20.69	8.261e2	1.029e3	0.80	NO	0.59854	0.58954
Total Tetra-Furans	21.47	3.124e3	4.309e3	0.71	NO	2.4084	2.4084
Total Tetra-Furans	22.46	1.346e3	2.017e3	0.67	NO	1.0807	1.0807
Total Tetra-Furans	22.92	1.364e3	1.950e3	0.70	NO	1.0642	1.0642



RT	MS	Area	Height	Width	Area%	Height%	Width%
44	141	0.0025	10.120	27.50	0.11	0.0200	0.11
45	142	0.0025	10.120	29.27	0.03	0.0081	0.04
46	143	0.0341	10.120	33.58	15.7	0.123	15.6
47	144	0.0734	10.120	37.83	36.3	0.273	36.3
48	PPH1						
49	PPH2						
50	PPH3						

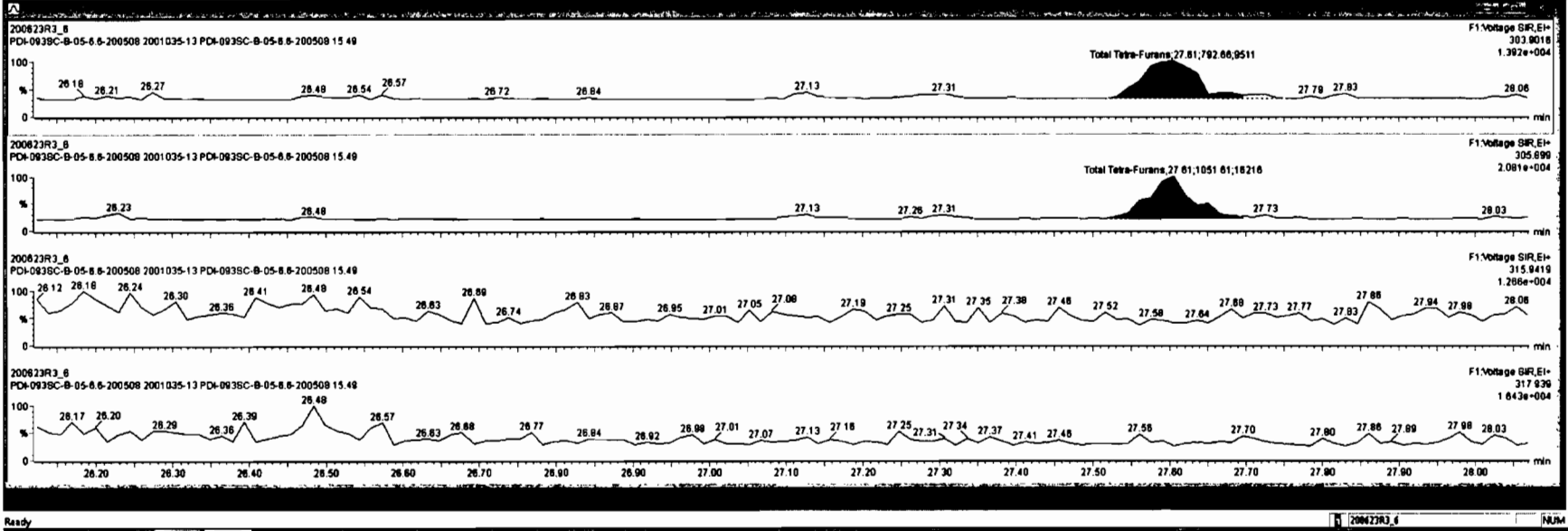
Name	RT	MS	Area	Height	Width	Area%	Height%	Width%
1 Total Tetra-Furane	20.35	2.430e2	2.553e2	0.88	YES	0.14511	0.00000	
2 Total Tetra-Furane	20.89	8.201e2	1.029e3	0.80	NO	0.59054	0.59054	
3 Total Tetra-Furane	21.47	3.124e3	4.389e3	0.71	NO	2.4084	2.4084	
4 Total Tetra-Furane	22.46	1.349e3	2.017e3	0.87	NO	1.0807	1.0807	
5 Total Tetra-Furane	22.82	1.384e3	1.950e3	0.70	NO	1.0842	1.0842	





Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration
66	1st Furo. Penta-Furans	0.8825	10.120	27.58		6.11	0.0288	8.11
67	Total Penta-Furans	0.8825	10.120	28.27		5.93	0.0881	8.04
68	Total Hexa-Furans	0.8341	10.120	33.58		15.7	0.123	18.8
69	Total Hepta-Furans	0.8734	10.120	37.83		36.3	0.273	36.3
70	PPK1							
71	PPK2							
72	PPK3							
73	Hept							

Peak	Name	Area	Height	Width	Retention	Integration	Integration	Integration
1	Total Tetra-Furans	20.25	2.438e2	2.553e2	0.89	YES	0.14511	0.00000
2	Total Tetra-Furans	20.89	8.281e2	1.029e3	0.80	NO	0.58854	0.58854
3	Total Tetra-Furans	21.47	3.124e3	4.389e3	0.71	NO	2.4084	2.4084
4	Total Tetra-Furans	22.46	1.348e3	2.017e3	0.87	NO	1.0807	1.0807
5	Total Tetra-Furans	22.92	1.364e3	1.850e3	0.70	NO	1.0842	1.0842



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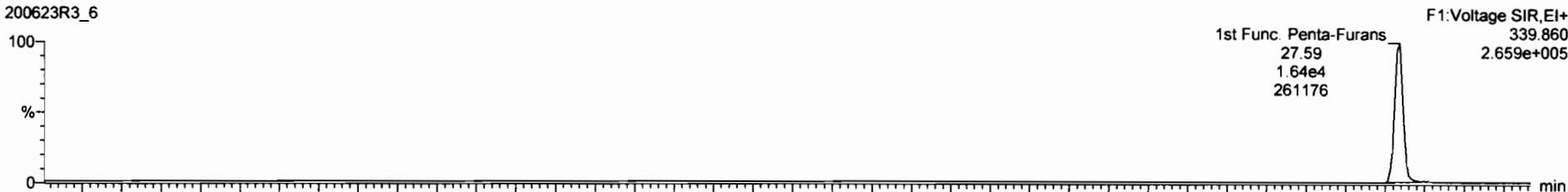
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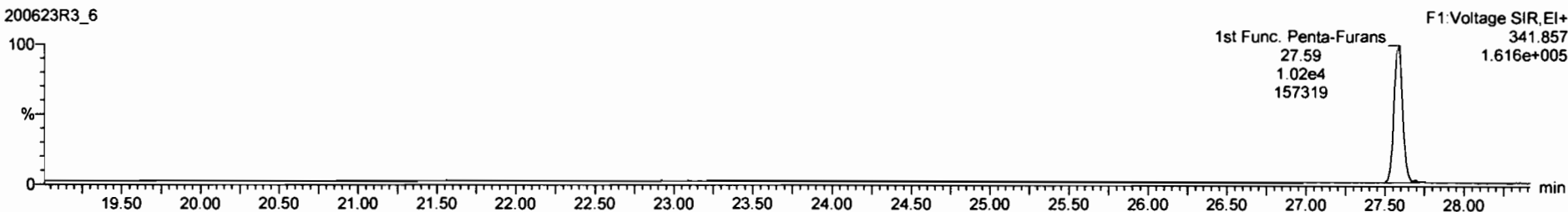
Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

1st Func. Penta-Furans

200623R3_6

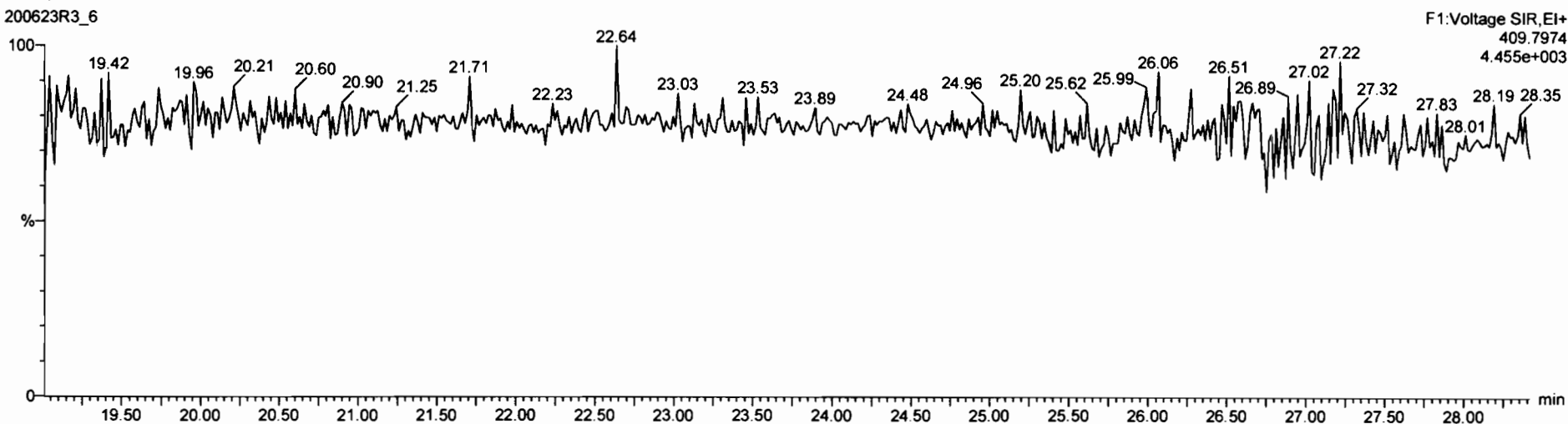


200623R3_6



DPE6

200623R3_6

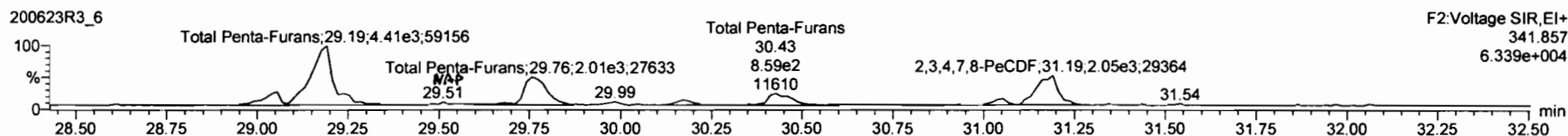
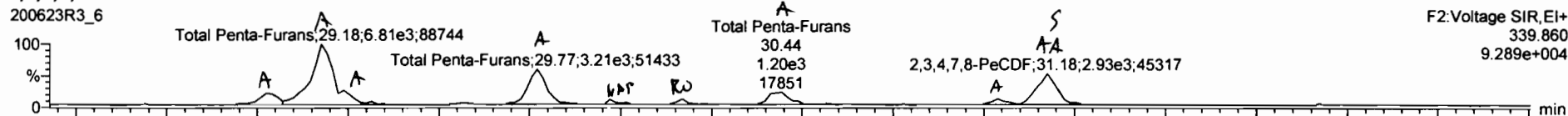


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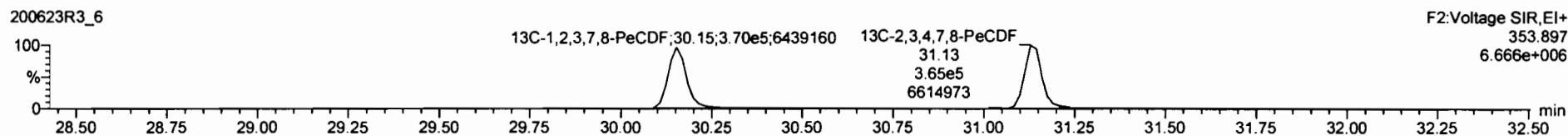
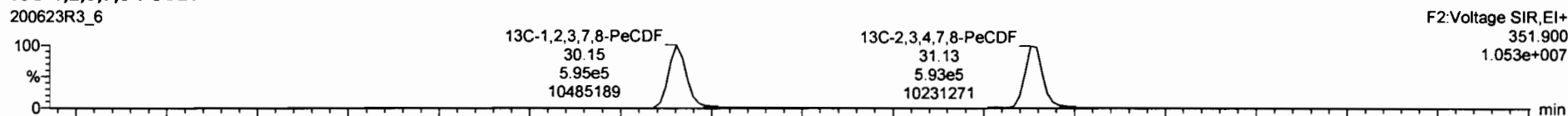
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Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

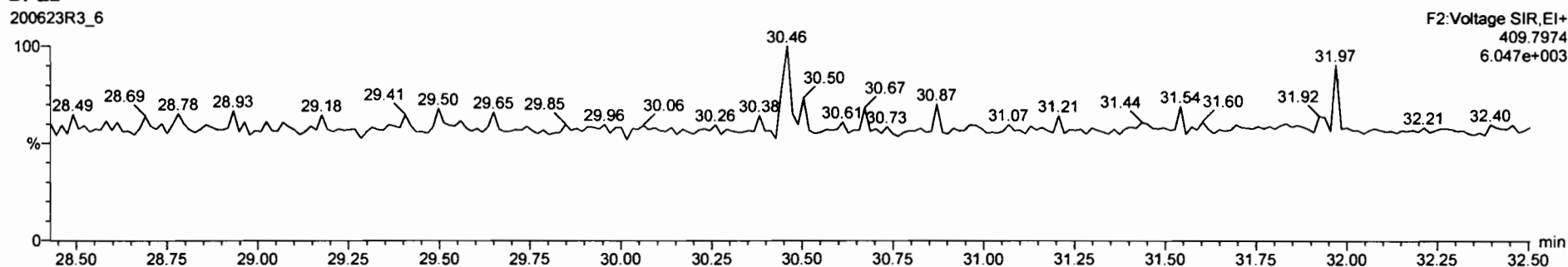
1,2,3,7,8-PeCDF

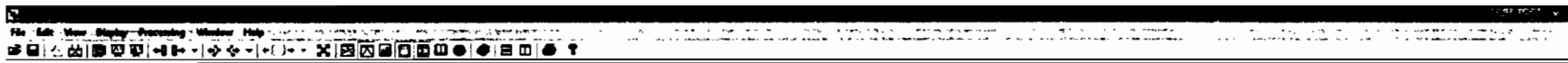


13C-1,2,3,7,8-PeCDF



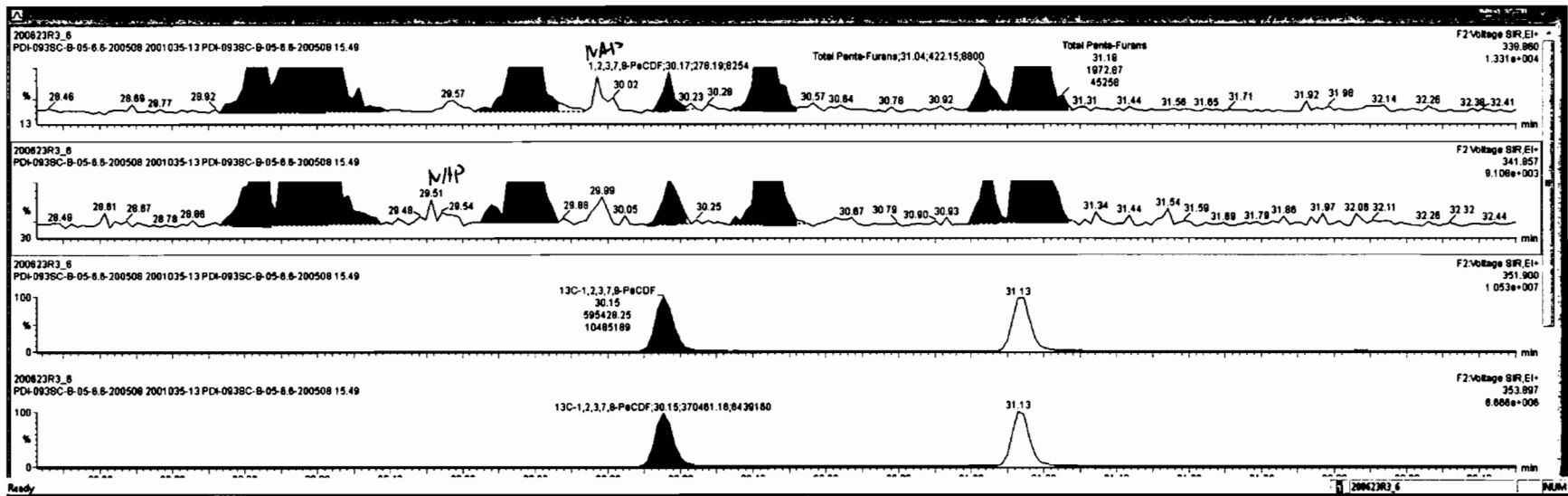
DPE2





Item	Name	Area	Height	Width	Retention	Response	Integration	Integration
43	Total Tetra-Furane	0.7510	10.120	23.81	7.80	0.120	8.12	
44	1st Func. Penta-Furane	0.8825	10.120	27.50	8.11	0.0288	8.11	
45	Total Hexa-Furane	0.9341	10.120	33.56	15.7	0.123	18.8	
46	Total Hepta-Furane	0.8734	10.120	37.83	38.3	0.273	38.3	
47	PFK1							
48	PFK2							
49	PFK3							

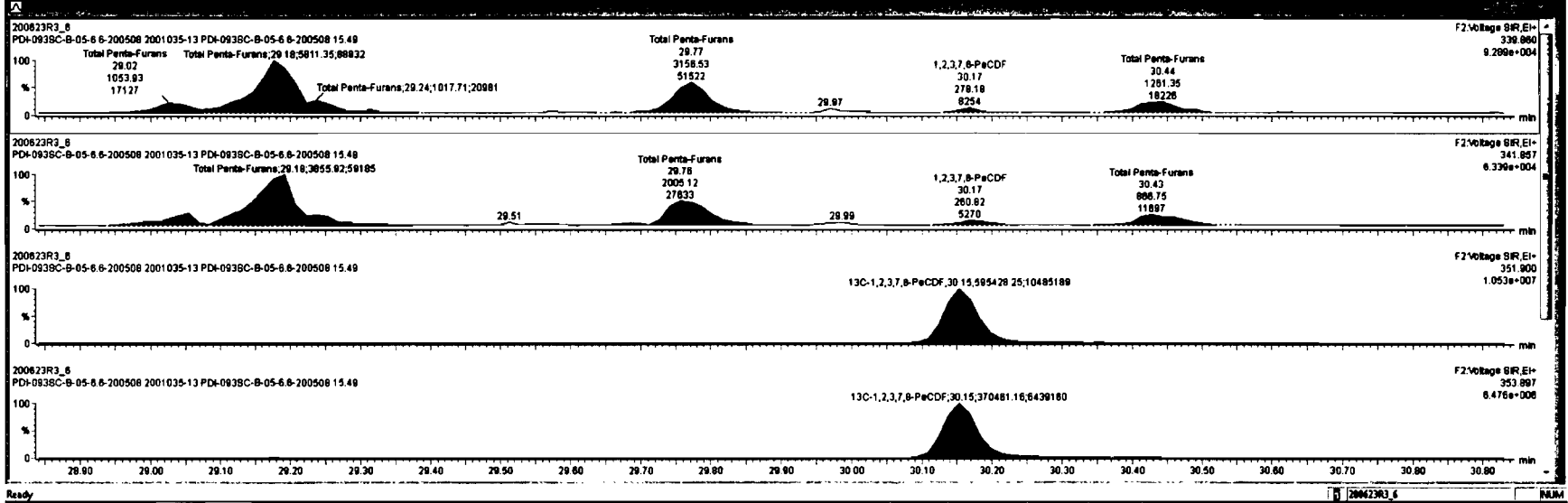
Item	Name	Area	Height	Width	Retention	Response	Integration	Integration
1	Total Penta-Furane	29.02	1.054e3	7.202e2	1.48	NO	0.40854	0.40854
2	Total Penta-Furane	28.18	6.801e3	4.444e3	1.54	NO	2.8031	2.8031
3	Total Penta-Furane	28.77	3.157e3	2.005e3	1.57	NO	1.1888	1.1888
4	1,2,3,7,8-PeCDF	30.17	2.782e2	2.808e2	1.07	YES	0.10401	0.00000
5	Total Penta-Furane	30.44	1.261e3	8.867e2	1.48	NO	0.48003	0.48003
6	Total Penta-Furane	31.04	4.221e2	3.068e2	1.38	NO	0.16788	0.16788
7	2,3,4,7,8-PeCDF	31.18	8.099e2	8.728e2	1.35	NO	0.34831	0.34831
8	Total Penta-Furane	31.18	1.873e3	1.362e3	1.43	NO	0.77245	0.77245

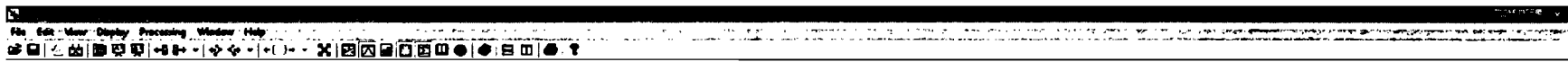




66	Total Tetra-Furans			0.7910	10.120	23.81			7.88	0.120	8.12
67	1st Func. Penta-Furans			0.8825	10.120	27.58			6.11	0.0288	6.11
68	Total Hexa-Furans			0.9341	10.120	33.58			15.7	0.123	16.8
69	Total Hepta-Furans			0.8734	10.120	37.83			36.3	0.273	36.3
70	PFK1										
71	PFK2										
72	PFK3										

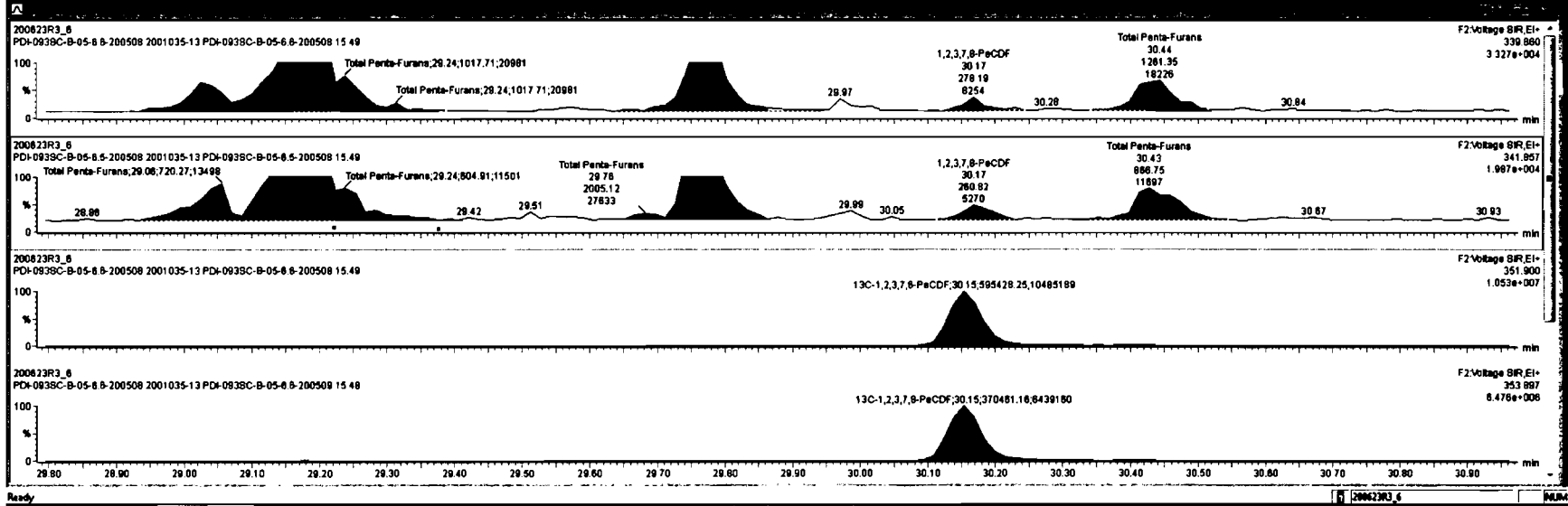
RT	Total Penta-Furans	1,2,3,7,8-PeCDF	Area	Height	Width	Area%	Height%	Width%
28.02	1.054e3	7.203e2	1.48	NO	0.40854	0.40854		
28.18	5.811e3	3.898e3	1.51	NO	2.2201	2.2201		
28.24	1.018e3	6.048e2	1.88	NO	0.37364	0.00000		
28.77	3.157e3	2.005e3	1.57	NO	1.1886	1.1886		
30.17	2.782e2	2.808e2	1.07	YES	0.10481	0.00000		
30.44	1.261e3	8.867e2	1.48	NO	0.48003	0.48003		
31.04	4.221e2	3.059e2	1.38	NO	0.16788	0.16788		

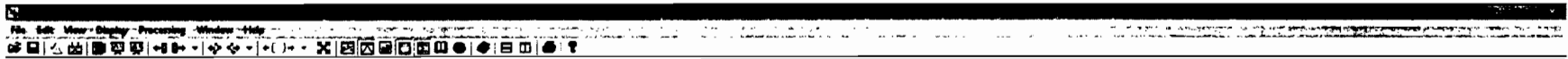




Peak #	Retention Time (min)	Area	Height	Width	Integration	Response	Concentration
1	7.90	0.7510	10.120	23.81		0.120	8.12
2	8.11	0.8825	10.120	27.88		0.0289	8.11
3	15.7	0.9341	10.120	33.56		0.123	18.8
4	16.8	0.8734	10.120	37.83		0.273	36.3
5							
6							
7							
8							
9							
10							

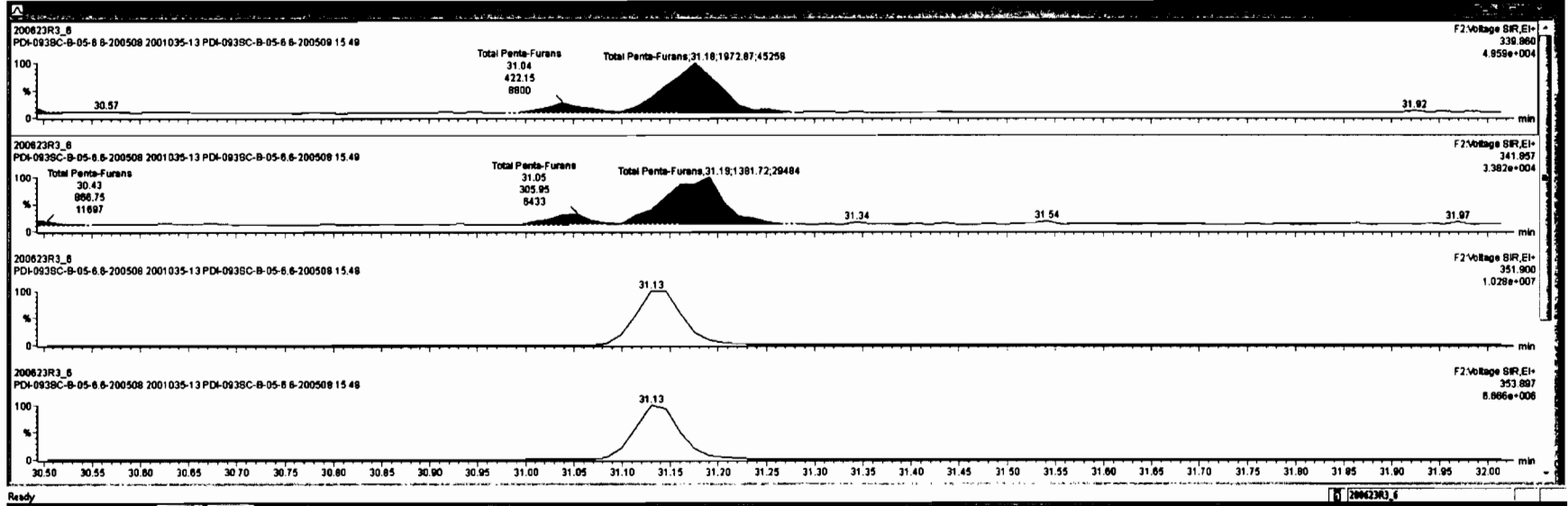
Peak #	Retention Time (min)	Area	Height	Width	Integration	Response	Concentration
1	29.02	1.054e3	7.203e2	1.48	NO	0.40854	0.40854
2	29.10	5.811e3	3.898e3	1.51	NO	2.2281	2.2281
3	29.24	1.018e3	6.048e2	1.88	NO	0.37384	0.00000
4	29.77	3.157e3	2.005e3	1.57	NO	1.1885	1.1885
5	30.17	2.782e2	2.808e2	1.07	YES	0.10481	0.00000
6	30.44	1.261e3	8.887e2	1.48	NO	0.46003	0.46003
7	31.04	4.221e2	3.059e2	1.38	NO	0.16788	0.16788





Sample	Concentration	Area	Height	Width	Area%	Height%	Width%
Total Tetra-Furans	0.7510	10.120	23.81		7.89	0.120	8.12
Total Penta-Furans	0.8825	10.120	27.38		8.11	0.0289	8.11
Total Hexa-Furans	0.8241	10.120	33.58		15.7	0.123	18.8
Total Hepta-Furans	0.8734	10.120	37.83		36.3	0.273	38.3
PH1							
PH2							
PH3							

Sample	Concentration	Area	Height	Width	Area%	Height%	Width%
Total Penta-Furans	29.02	1.054e3	7.203e2	1.48	NO	0.40854	0.40854
Total Penta-Furans	28.18	5.811e3	3.858e3	1.51	NO	2.2281	2.2281
Total Penta-Furans	28.24	1.018e3	6.048e2	1.88	NO	0.37364	0.00000
Total Penta-Furans	28.77	3.157e3	2.085e3	1.57	NO	1.1888	1.1888
2,3,7,8-PhCOP	30.17	2.782e2	2.888e2	1.07	YES	0.10491	0.00000
Total Penta-Furans	30.44	1.281e3	8.867e2	1.48	NO	0.46003	0.46003
Total Penta-Furans	31.04	4.221e2	3.058e2	1.38	NO	0.16788	0.16788



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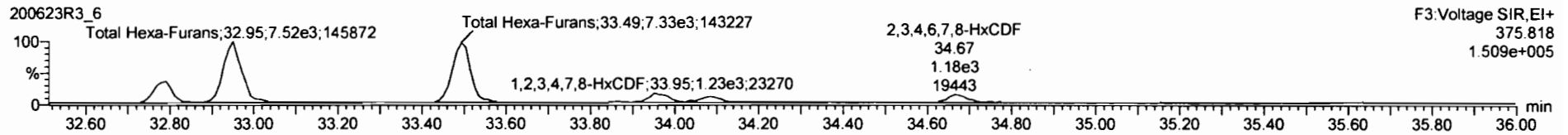
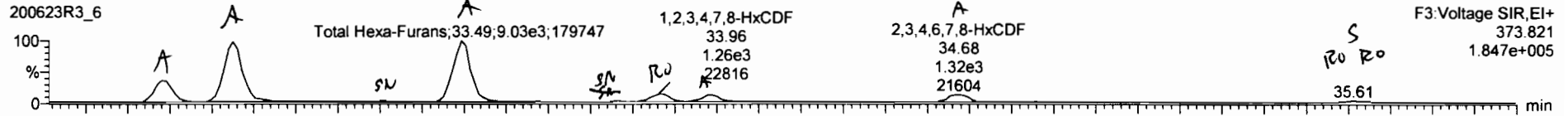
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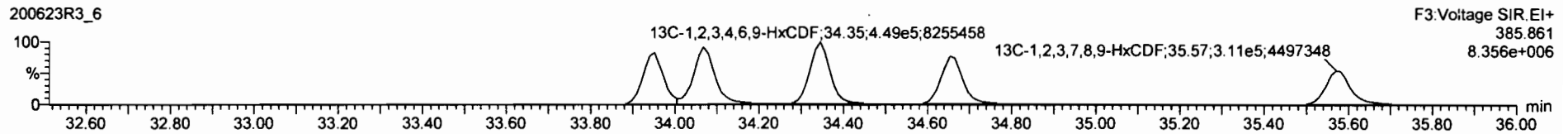
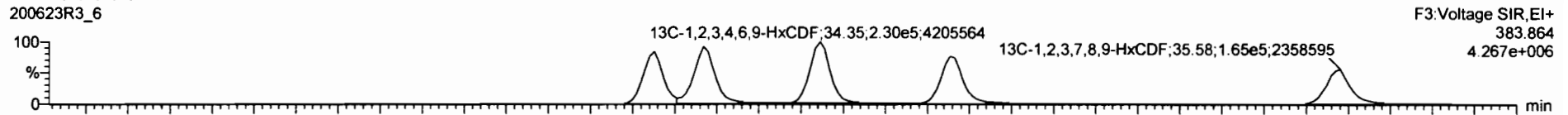
Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

HN 07/02/2020

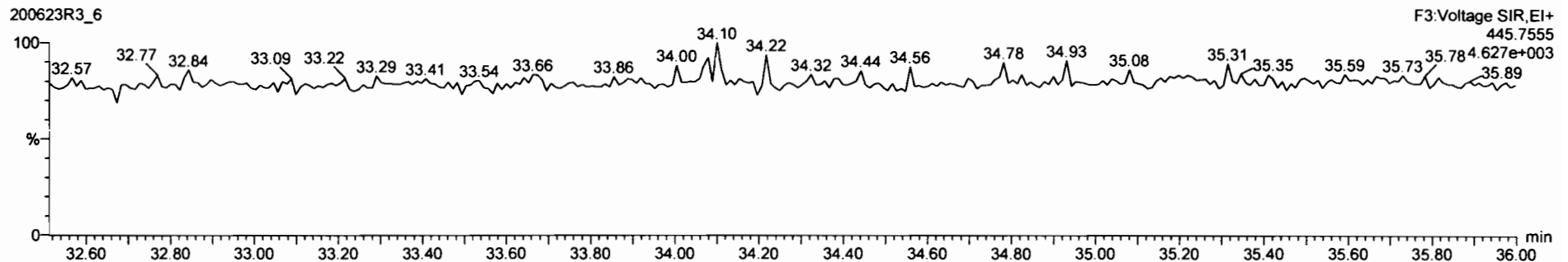
1,2,3,4,7,8-HxCDF



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

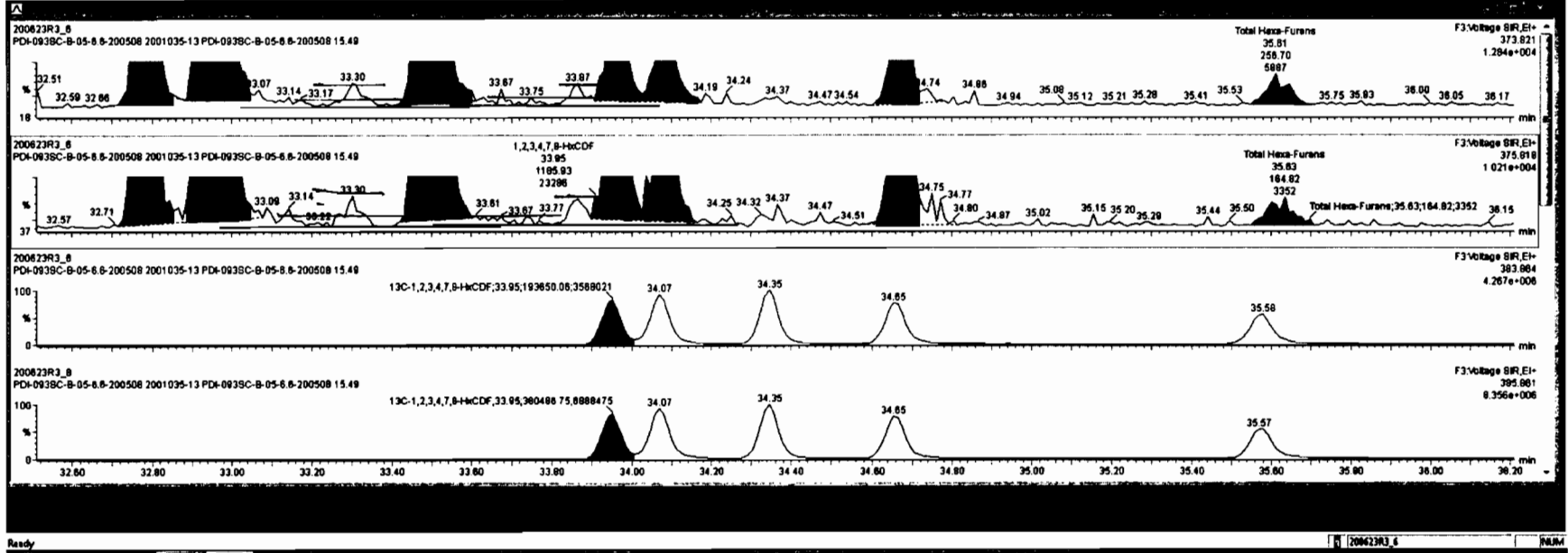


DPE3



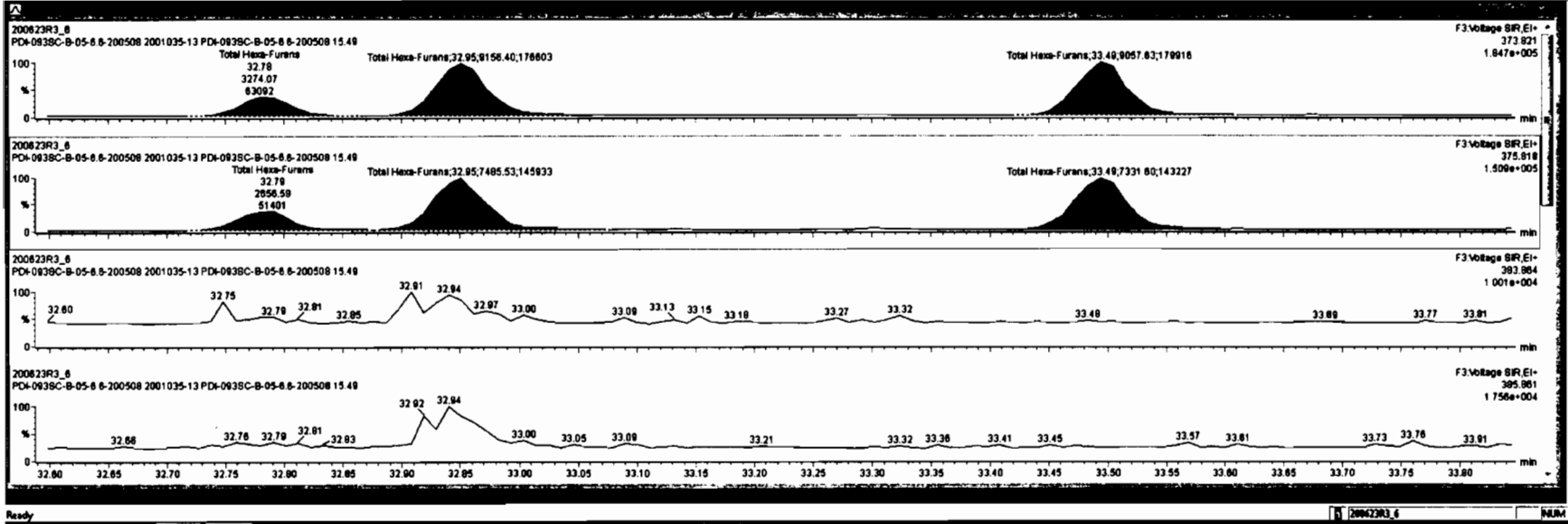
Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
Total Tetra-Furans	10.120	23.81	7.99	0.120	0.120	0.120	0.120
Total Penta-Furans	10.120	27.98	8.11	0.0299	0.0299	0.0299	0.11
Total Hexa-Furans	10.120	29.27	5.80	0.0691	0.0691	0.0691	0.08
Total Hepta-Furans	10.120	37.83	36.3	0.273	0.273	0.273	36.3

Peak	Retention Time	Area	Height	Width	Integration	Integration	Integration
Total Hexa-Furans	32.78	3.274e3	2.857e3	1.23	NO	2.1871	2.1871
Total Hexa-Furans	32.95	9.199e3	7.499e3	1.22	NO	8.0808	8.0808
Total Hexa-Furans	33.49	9.059e3	7.332e3	1.24	NO	5.9095	5.9095



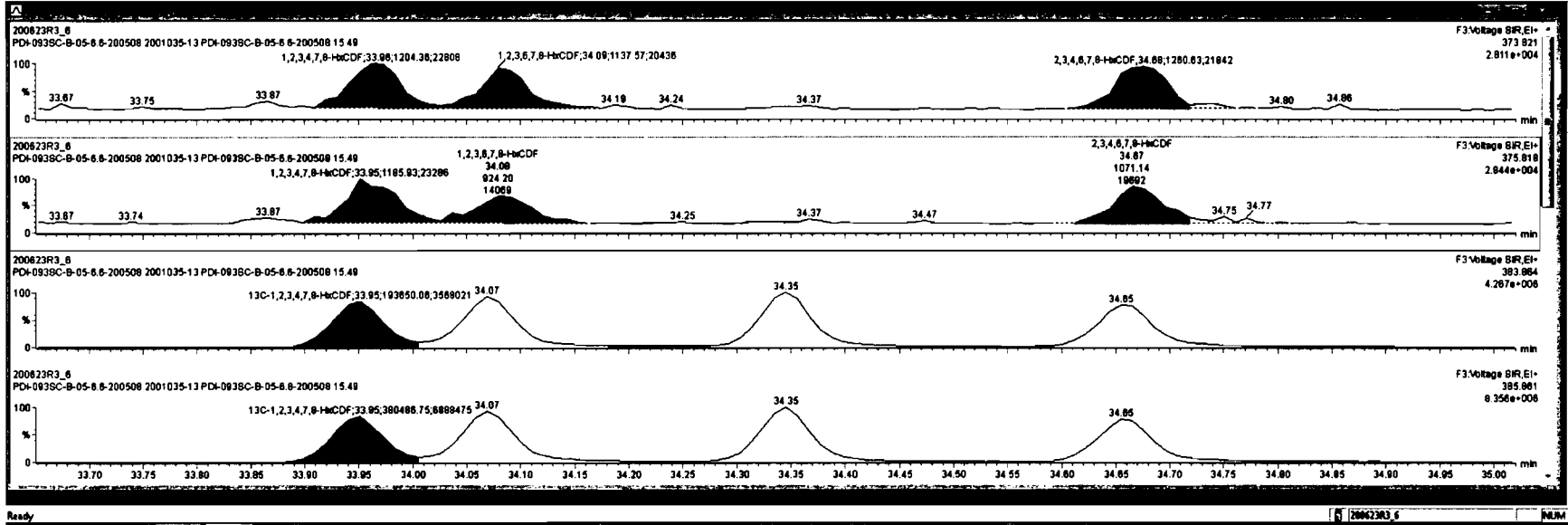
Total Tetra-Furans	0.7510	10.120	23.81		7.06	0.120	8.12
1st Func. Penta-Furans	0.8825	10.120	27.59		5.11	0.0286	6.11
Total Penta-Furans	0.8825	10.120	28.27		5.80	0.0891	6.08
Total Hexa-Furans	0.8734	10.120	37.83		36.3	0.273	36.3
PFK1							
PFK2							
PFK3							

Total Hexa-Furans	32.78	3.274e3	2.857e3	1.23	NO	2.1871	2.1871
Total Hexa-Furans	32.95	8.159e3	7.485e3	1.22	NO	6.0008	6.0008
Total Hexa-Furans	33.49	8.059e3	7.352e3	1.24	NO	5.9898	5.9898
1,2,3,4,7,8-HxCDF	33.98	1.204e3	1.188e3	1.02	YES	0.84898	0.00000
1,2,3,6,7,8-HxCDF	34.08	1.136e3	8.242e2	1.23	NO	0.87219	0.87219



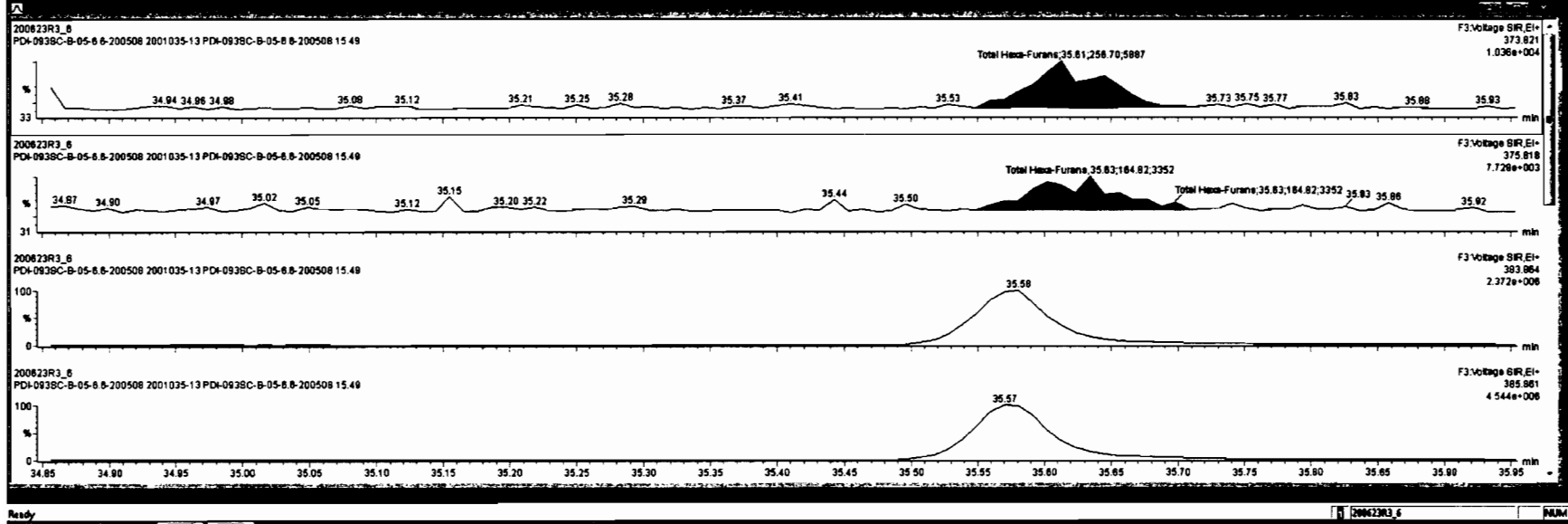
Item	Area	Height	Width	Retention	Response	Integration	Integration		
Total Tetra-Furans				0.7510	10.120	23.81	7.98	0.120	8.12
1st Func. Penta-Furans				0.8825	10.120	27.59	8.11	0.0289	8.11
Total Penta-Furans				0.8825	10.120	28.27	5.80	0.0881	8.08
Total Hexa-Furans				0.8734	10.120	37.83	38.3	0.273	38.3
PK1									
PK2									
PK3									
PK4									

Item	Area	Height	Width	Retention	Response	Integration	Integration
Total Hexa-Furans	32.78	3.274e3	2.857e3	1.23	NO	2.1871	2.1871
Total Hexa-Furans	32.85	9.158e3	7.488e3	1.22	NO	8.0808	8.0808
Total Hexa-Furans	33.48	9.058e3	7.332e3	1.24	NO	5.9888	5.9888
1,2,3,4,7,8-HxCDF	33.88	1.204e3	1.186e3	1.02	YES	0.84888	0.00000
1,2,3,6,7,8-HxCDF	34.08	1.138e3	9.242e2	1.23	NO	0.87218	0.87218



Peak #	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
437	Total Tetra-Furane	0.7510	10.120	23.81		7.89	0.120	8.12	
442	1st Func. Penta-Furane	0.8825	10.120	27.58		8.11	0.0288	8.11	
447	Total Penta-Furane	0.8825	10.120	28.27		5.80	0.0881	6.08	
472	Total Hexa-Furane	0.8734	10.120	37.83		36.3	0.273	36.3	
483	PPK1								
484	PPK2								
485	PPK3								
486	Hexa								

Peak #	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration	Integration	Integration
1	Total Hexa-Furane	32.78	3.274e3	2.857e3	1.23	NO	2.1871	2.1871	
2	Total Hexa-Furane	32.95	9.159e3	7.486e3	1.22	NO	8.0808	8.0808	
3	Total Hexa-Furane	33.49	9.099e3	7.332e3	1.24	NO	5.9688	5.9688	
4	1,2,3,4,7,8-HexCDF	33.98	1.204e3	1.196e3	1.02	YES	0.84889	0.00000	
5	1,2,3,6,7,8-HexCDF	34.08	1.139e3	9.242e2	1.23	NO	0.87218	0.87218	

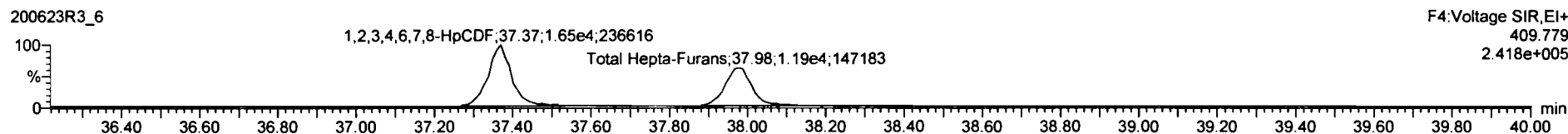
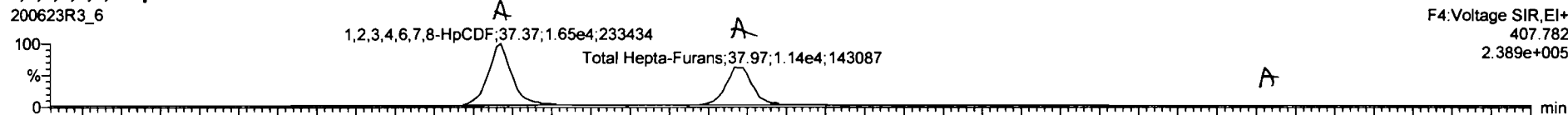


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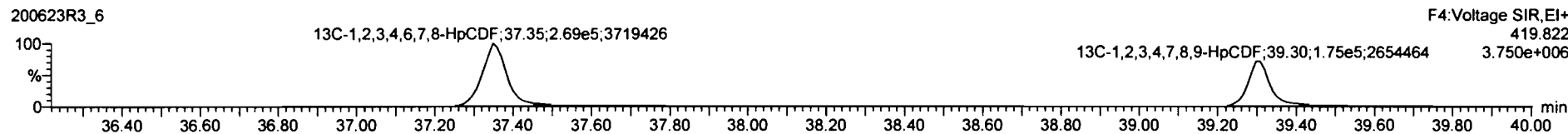
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Printed: Wednesday, June 24, 2020 08:16:33 Pacific Daylight Time

Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508

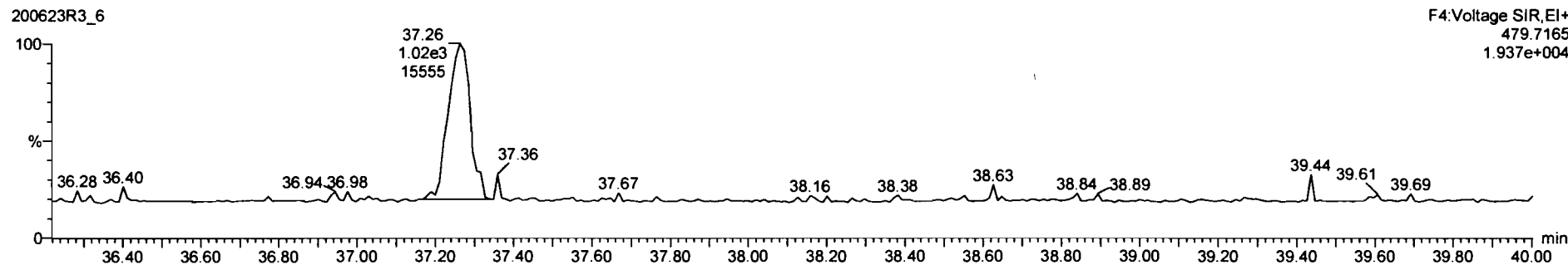
1,2,3,4,6,7,8-HpCDF



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

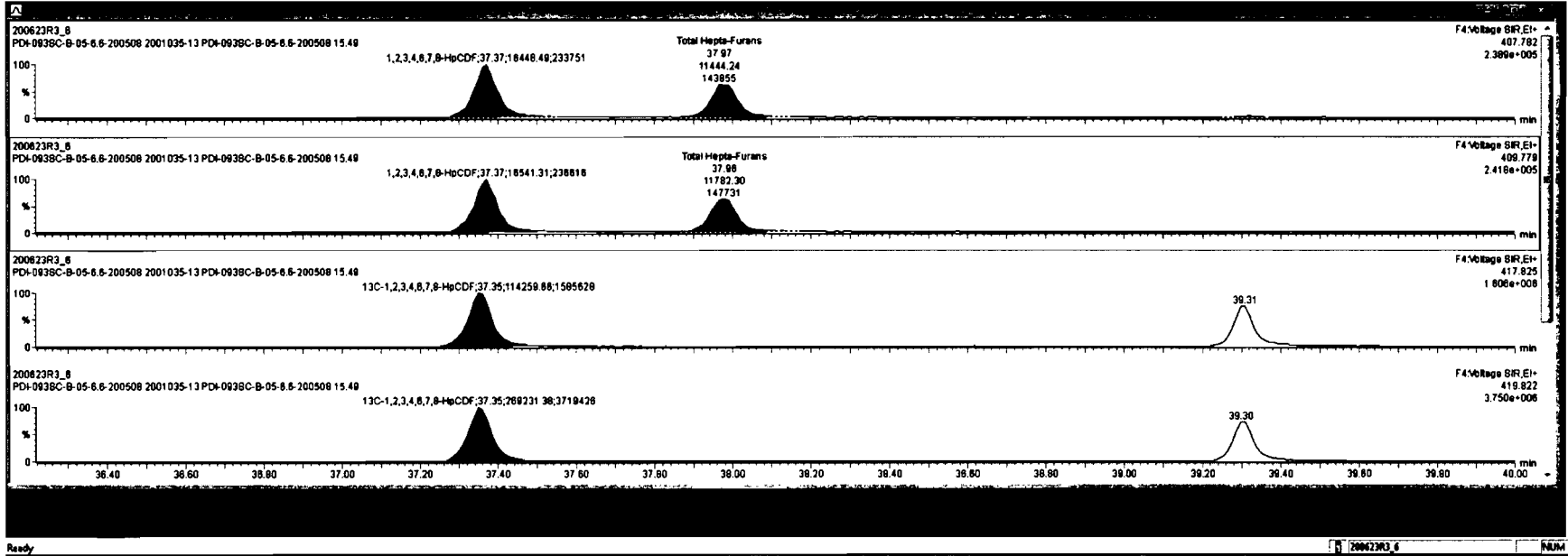


DPE4



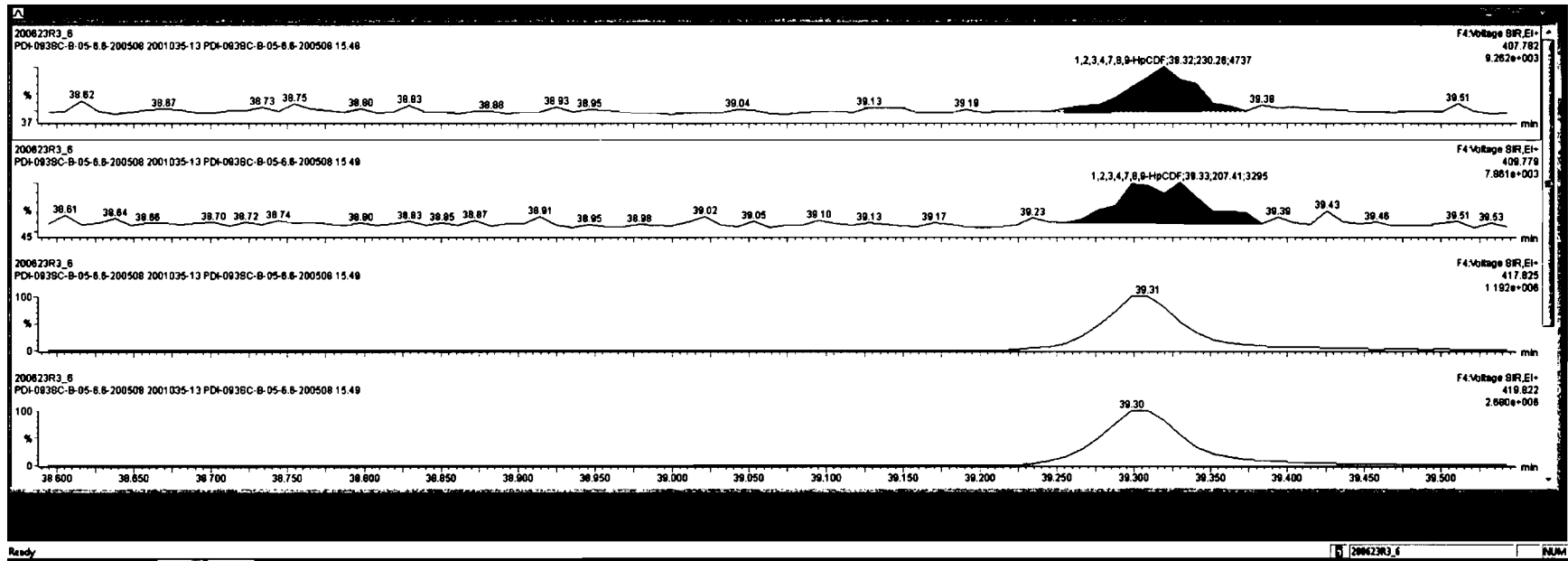
Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	2,3,7,8-TCDF	6.41e2	0.97	YES	0.9081	10.120	31.48	31.45	1.001	0.210		0.0879	0.173
2	1,2,3,7,8-PeCDD			NO	1.0334	10.120	34.84						0.114
3	1,2,3,4,7,8-HxCDD	2.19e3	1.32	NO	0.8823	10.120	34.93	34.94	1.000	0.874		0.115	0.874
4	1,2,3,7,8,9-HxCDD	1.02e3	1.42	NO	0.8898	10.120	35.22	35.23	1.001	0.458		0.137	0.458
5	1,2,3,4,6,7,8-HxCDD	4.25e4	1.08	NO	0.8838	10.120	36.77	36.78	1.001	28.1		0.376	28.1
6	OCDD	4.20e5	0.85	NO	0.9136	10.120	41.75	41.76	1.000	364		0.879	364
7	2,3,7,8-TCDF	7.72e2	0.87	NO	0.7510	10.120	25.80	25.80	1.001	0.248		0.120	0.248

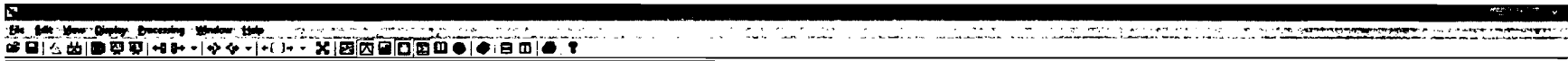
Peak	Retention Time	Area	Height	Width	Height	Area	Height	Width	Height
1	1,2,3,4,6,7,8-HxCDF	37.37	1.845e4	1.854e4	0.98	NO	18.485	18.485	
2	Total Hepta-Furans	37.87	1.144e4	1.178e4	0.97	NO	18.518	18.518	
3	1,2,3,4,7,8-HxCDF	38.32	2.303e2	2.874e2	1.11	NO	0.33774	0.33774	



Peak	Name	Area	Height	W	Area%	Height%	Response	Height	Area	Height	Area%	Height%
1	2,3,7,8-TCDF											
2	1,2,3,7,8-PeCDD	8.41e2	0.87	YES	0.8081	10.120	31.46	31.45	1.001	0.210	0.0079	0.173
3	1,2,3,4,7,8-HxCDD			NO	1.0334	10.120	34.84					0.114
4	1,2,3,6,7,8-HxCDD	2.19e3	1.32	NO	0.8823	10.120	34.83	34.84	1.000	0.674	0.115	0.874
5	1,2,3,7,8,9-HxCDD	1.02e3	1.42	NO	0.8850	10.120	35.22	35.23	1.001	0.458	0.137	0.458
6	1,2,3,4,6,7,8-HpCDD	4.25e4	1.08	NO	0.8830	10.120	38.77	38.78	1.001	28.1	0.378	28.1
7	OCDD	4.20e5	0.85	NO	0.9138	10.120	41.75	41.76	1.000	384	0.879	384
8	2,3,7,8-TCDF	7.72e2	0.87	NO	0.7510	10.120	25.80	25.80	1.001	0.240	0.120	0.240

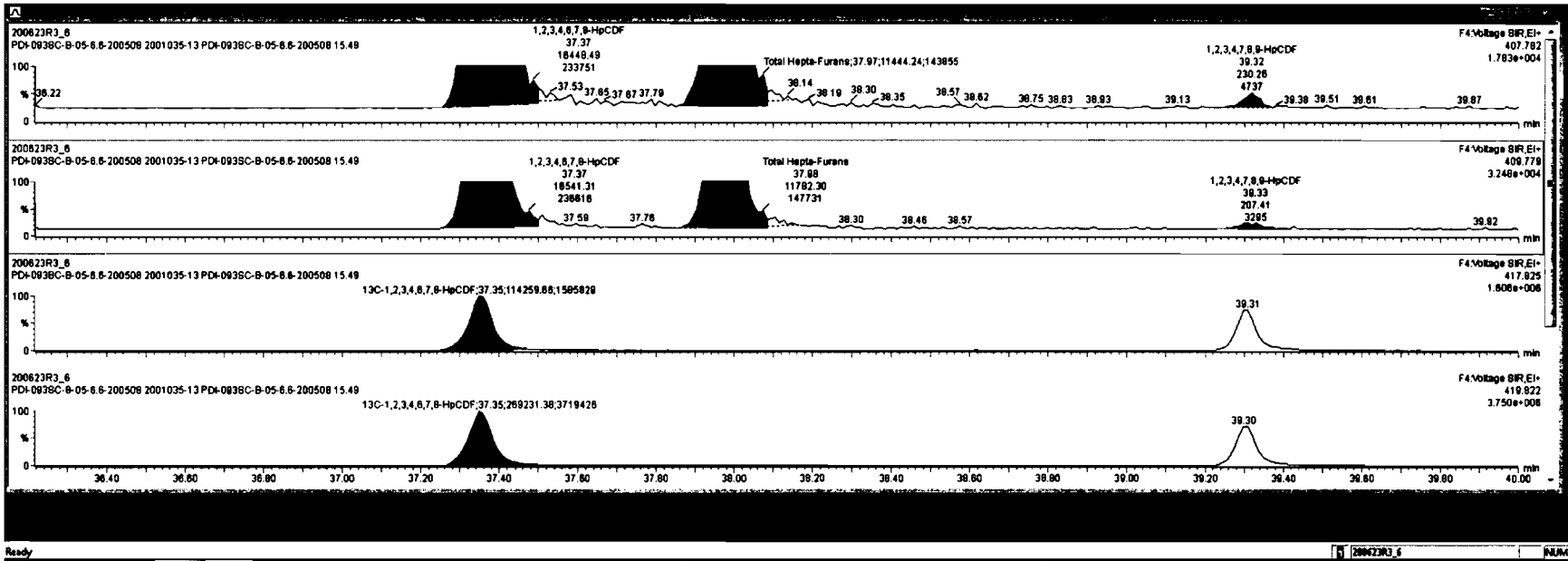
Peak	Name	Area	Height	W	Area%	Height%	Response	Height	Area	Height	Area%	Height%
1	1,2,3,4,6,7,8-HpCDF	37.37	1.845e4	1.854e4	0.80	NO	18.485	18.485				
2	Total Hepta-Furans	37.97	1.144e4	1.175e4	0.87	NO	18.518	18.518				
3	1,2,3,4,7,8,9-HpCDF	39.32	2.303e2	2.074e2	1.11	NO	0.33774	0.33774				





Item	1,2,3,7,8-TCDD	1,2,3,7,8-PeCDD	1,2,3,4,7,8-HxCDD	1,2,3,6,7,8-HxCDD	1,2,3,7,8,9-HxCDD	1,2,3,4,6,7,8-HxCDD	OCDD	1,2,3,7,8-TCDF	1,2,3,7,8-PeCDF	1,2,3,4,6,7,8-HxCDF	1,2,3,6,7,8-HxCDF	1,2,3,7,8,9-HxCDF	Total Hepta-Furans
1		8.41e2	0.97	YES	0.8081	10.120	31.46	31.45	1.001	0.210		0.0879	0.173
2				NO	1.0334	10.120	34.84					0.114	
3		2.19e3	1.32	NO	0.8623	10.120	34.83	34.84	1.000	0.874		0.115	0.874
4		1.02e3	1.42	NO	0.8666	10.120	35.22	35.23	1.001	0.458		0.137	0.458
5		4.25e4	1.08	NO	0.8638	10.120	36.77	36.78	1.001	28.1		0.376	28.1
6		4.20e5	0.85	NO	0.9138	10.120	41.75	41.76	1.000	364		0.879	364
7		7.73e2	0.87	NO	0.7510	10.120	25.80	25.80	1.001	0.248		0.120	0.248
8													

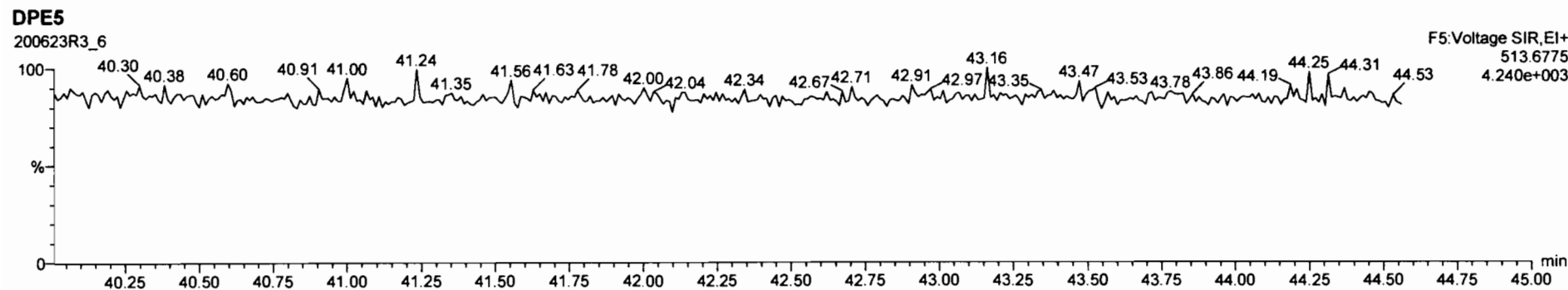
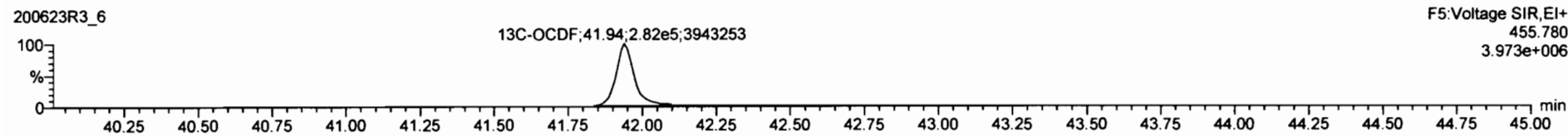
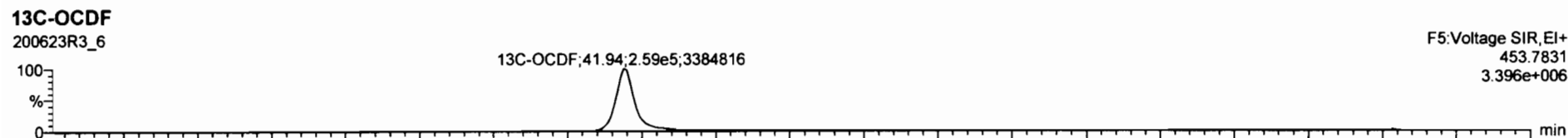
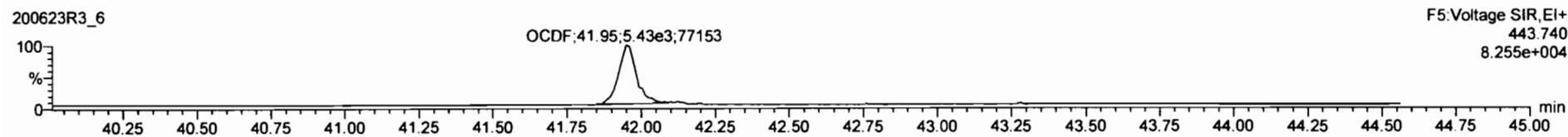
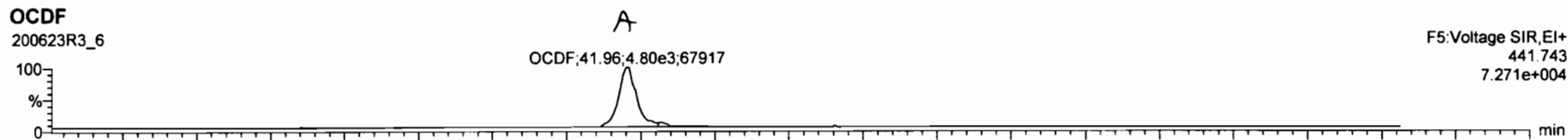
Item	1,2,3,4,6,7,8-HpCDF	Total Hepta-Furans
1	37.37	1.845e4
2	37.37	1.144e4
3	38.32	2.303e2



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 08:16:04 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 08:16:33 Pacific Daylight Time

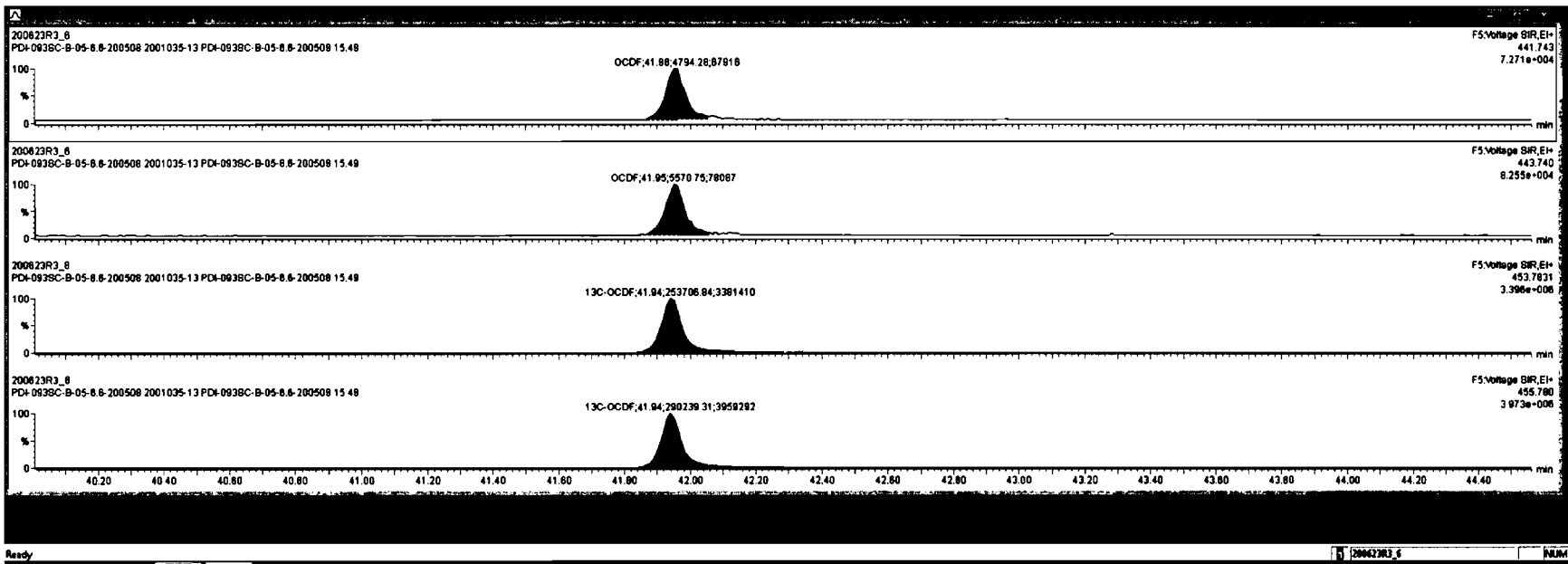
Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508





177																				
178	13C-2,3,7,8-TCDD	6.81e5	0.77	NO	1.1953	10.120	28.49	28.47	1.026	176	69.0	0.200								
179	13C-1,2,3,7,8-PCDD	6.89e5	0.84	NO	0.8490	10.120	31.87	31.43	1.218	241	1.22	0.386								
180	13C-1,2,3,4,7,8-HxCDD	4.40e5	1.29	NO	0.7700	10.120	34.83	34.83	1.014	188	84.8	0.370								
181	13C-1,2,3,6,7,8-HxCDD	5.55e5	1.30	NO	1.0167	10.120	34.84	34.83	1.017	169	80.3	0.283								
182	13C-1,2,3,7,8-HxCDD	4.94e5	1.28	NO	0.8027	10.120	35.21	35.21	1.025	159	80.5	0.319								
183	13C-1,2,3,4,6,7,8-HxCDD	3.48e5	1.05	NO	0.8882	10.120	38.74	38.76	1.128	148	73.8	0.283								
184	13C-OCDD	4.74e5	0.80	NO	0.8821	10.120	41.76	41.75	1.218	211	53.5	0.433								

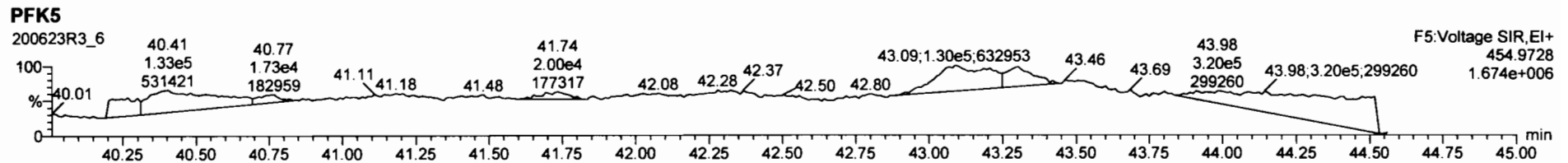
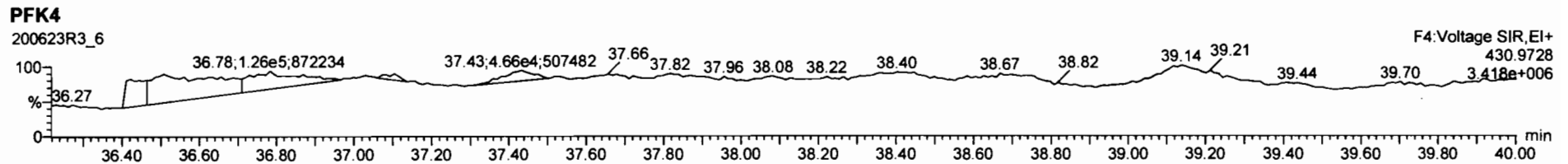
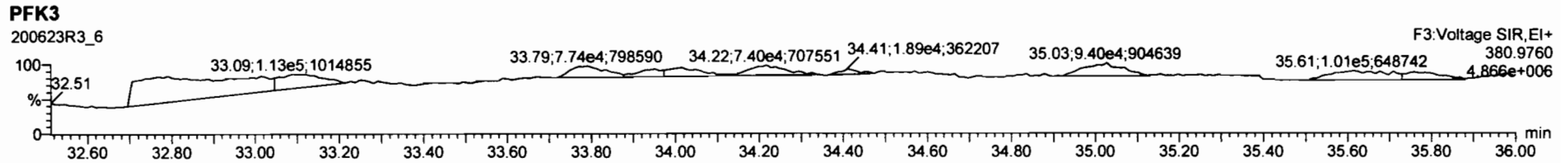
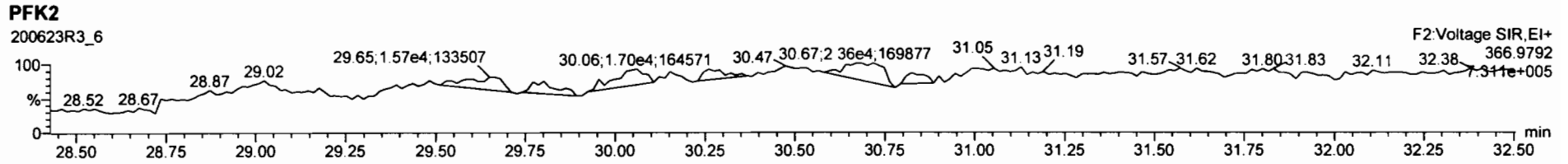
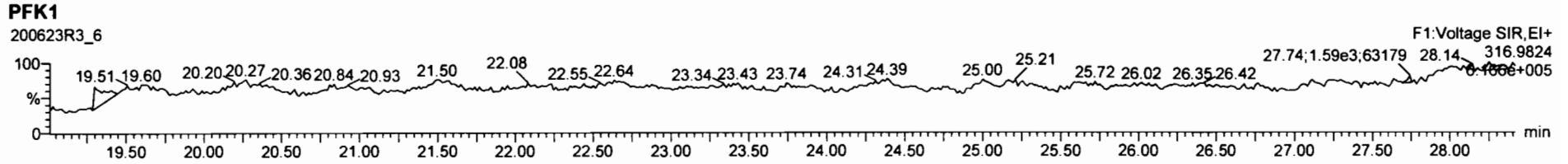
175	Name	RT	Area	Height	Width	Skew	Symmetry	Offset	Integration
1									



Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 08:16:04 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 08:16:33 Pacific Daylight Time

Name: 200623R3_6, Date: 24-Jun-2020, Time: 07:24:49, ID: 2001035-13 PDI-093SC-B-05-6.6-200508 15.49, Description: PDI-093SC-B-05-6.6-200508



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200709D2\200709D2_8.qld

Last Altered: Friday, July 10, 2020 11:03:59 Pacific Daylight Time
Printed: Friday, July 10, 2020 11:04:15 Pacific Daylight Time

DB 7/10/20 C7 07/17/2020

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

Calibration: U:\VG7.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 15:52:18

Name: 200709D2_8, Date: 09-Jul-2020, Time: 19:48:26, ID: 2001035-01RE2 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

#	Name	Resp	RA	n/y	RRF	w/vol	Prod.RT	RT	Prod.RRT	RRT	Conc	%Rec	ISL	EMPC
1	2,3,7,8-TCDF	6.83e3	0.77	NO	0.855	10.055	16.936	16.95	1.000	1.001	19.992		0.813	20.0
2	13C-2,3,7,8-TCDF	7.96e4	0.77	NO	1.10	10.055	16.894	16.94	1.133	1.135	83.508	42.0	0.565	
3	13C-1,2,3,4-TCDF	1.73e5	0.77	NO	1.00	10.055	15.060	14.92	1.000	1.000	198.90	100	0.619	

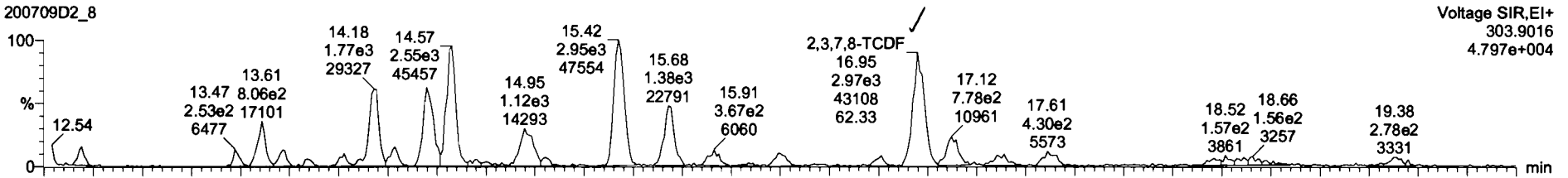
Dataset: U:\VG7.PRO\Results\200709D2\200709D2_8.qld

Last Altered: Friday, July 10, 2020 11:03:59 Pacific Daylight Time
Printed: Friday, July 10, 2020 11:05:51 Pacific Daylight Time

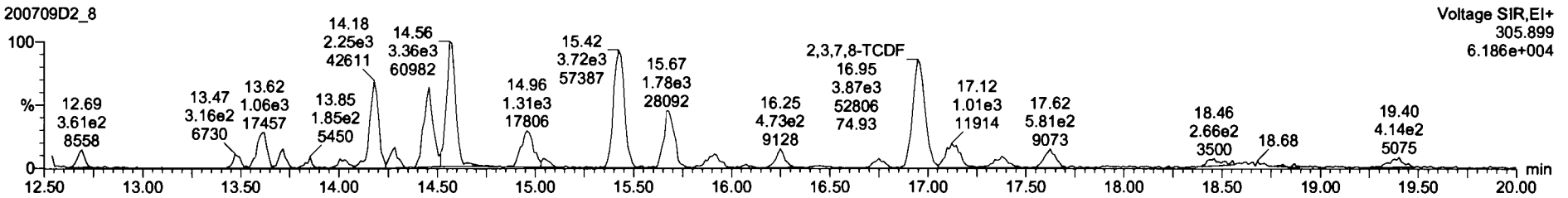
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 15:52:18

Name: 200709D2_8, Date: 09-Jul-2020, Time: 19:48:26, ID: 2001035-01RE2 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

2,3,7,8-TCDF
200709D2_8

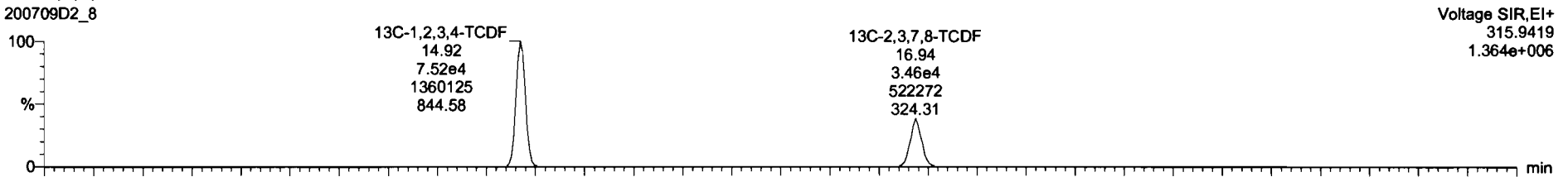


200709D2_8

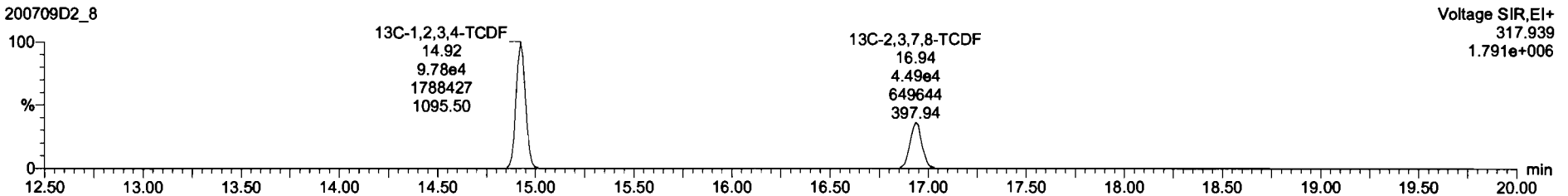


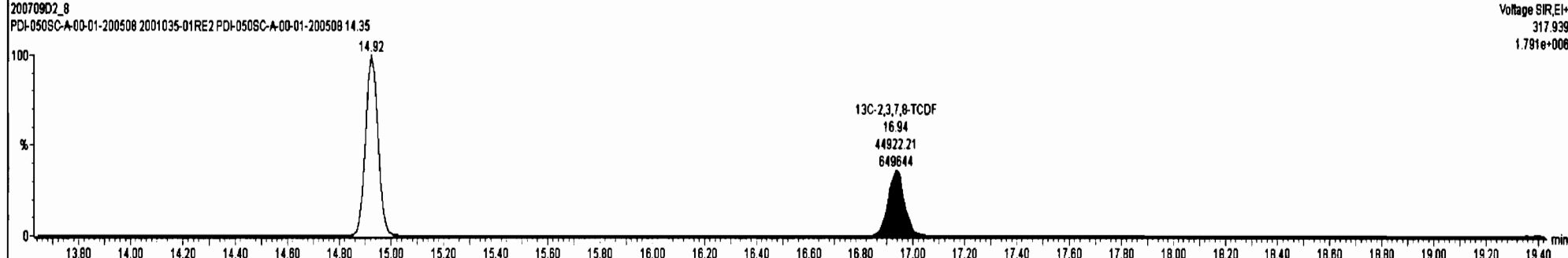
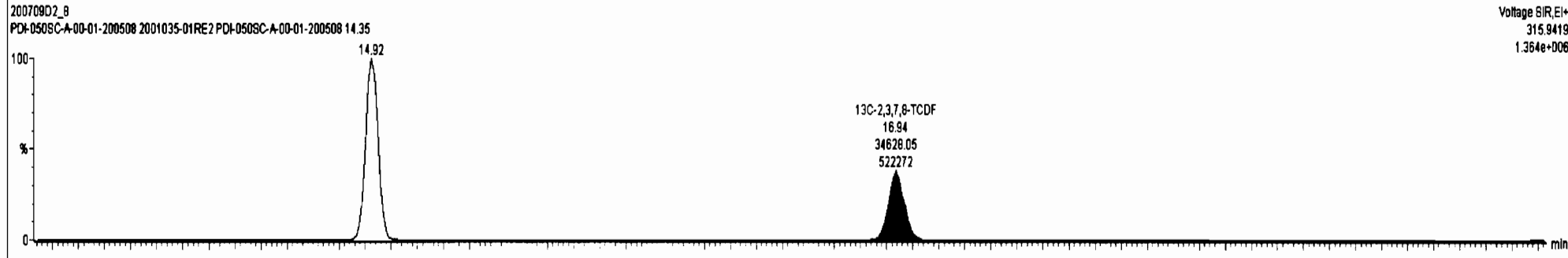
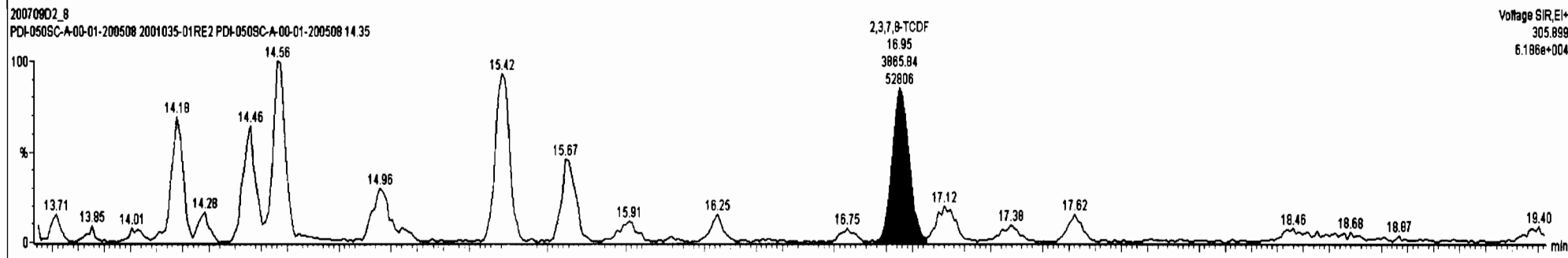
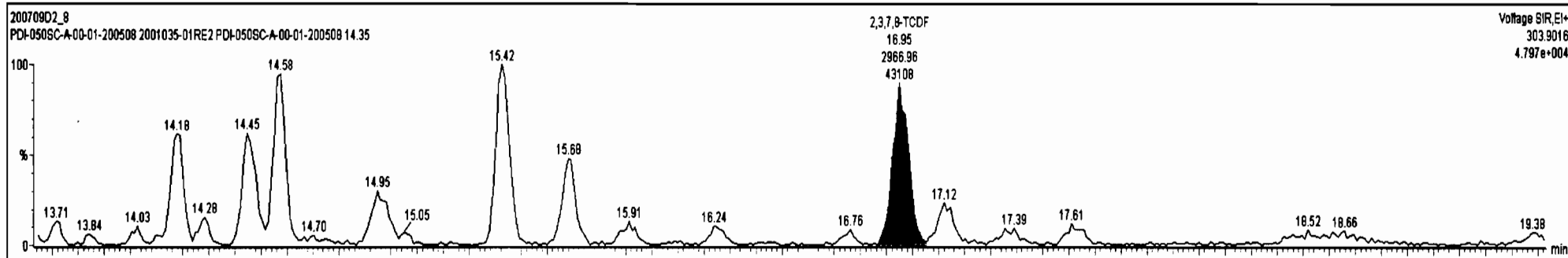
13C-2,3,7,8-TCDF

200709D2_8



200709D2_8





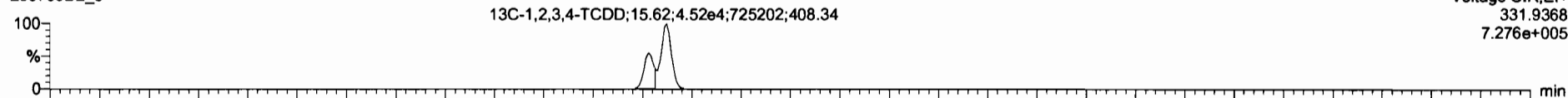
Dataset: U:\VG7.PRO\Results\200709D2\200709D2_8.qld

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Printed: Friday, July 10, 2020 11:05:51 Pacific Daylight Time

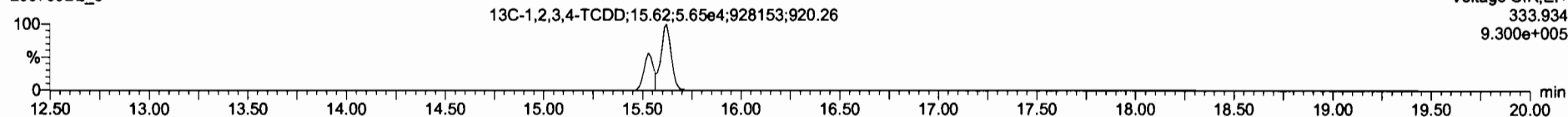
Name: 200709D2_8, Date: 09-Jul-2020, Time: 19:48:26, ID: 2001035-01RE2 PDI-050SC-A-00-01-200508 14.35, Description: PDI-050SC-A-00-01-200508

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

200709D2_8

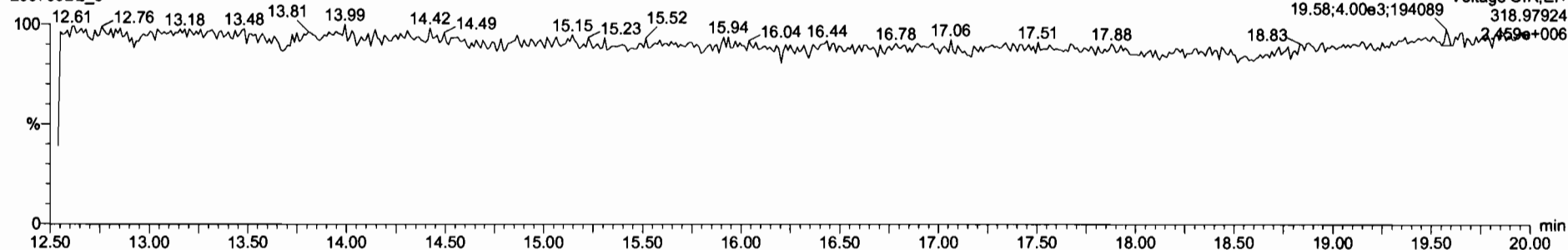


200709D2_8



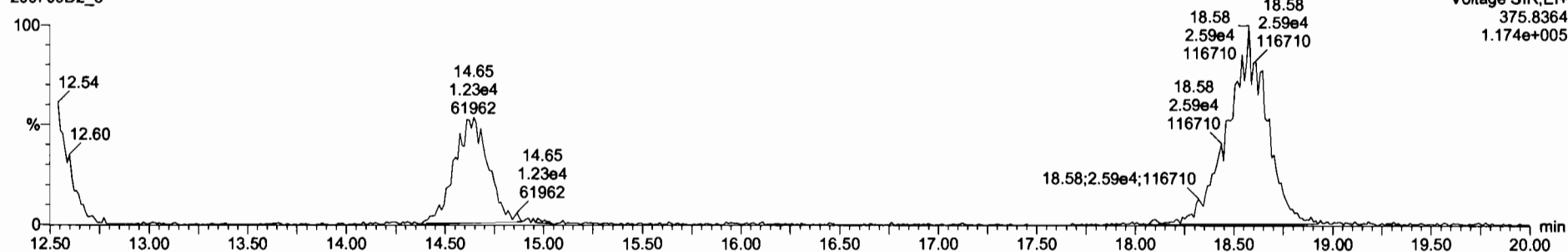
PFK1

200709D2_8



DPE1

200709D2_8



Dataset: U:\VG7.PRO\Results\200708D1\200708D1_12.qld

Last Altered: Wednesday, July 08, 2020 16:21:43 Pacific Daylight Time

Printed: Wednesday, July 08, 2020 16:24:12 Pacific Daylight Time

DB 7/8/20 C-107/17/2020

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_12, Date: 08-Jul-2020, Time: 15:57:51, ID: 2001035-08RE1 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	LOD	EMPC
1	2,3,7,8-TCDF	3.68e3	0.75	NO	0.982	10.016	16.937	16.96	1.000	1.001	7.6239		0.510	7.62
2	13C-2,3,7,8-TCDF	9.80e4	0.75	NO	1.08	10.016	16.894	16.94	1.133	1.135	92.903	46.5	0.457	
3	13C-1,2,3,4-TCDF	1.95e5	0.77	NO	1.00	10.016	15.060	14.92	1.000	1.000	199.68	100	0.495	

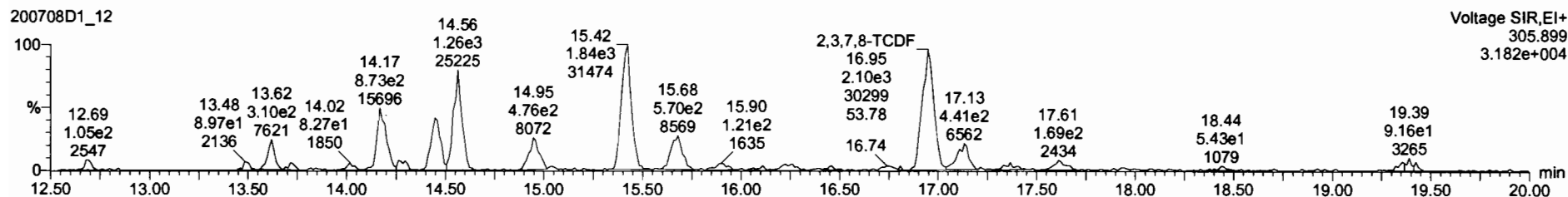
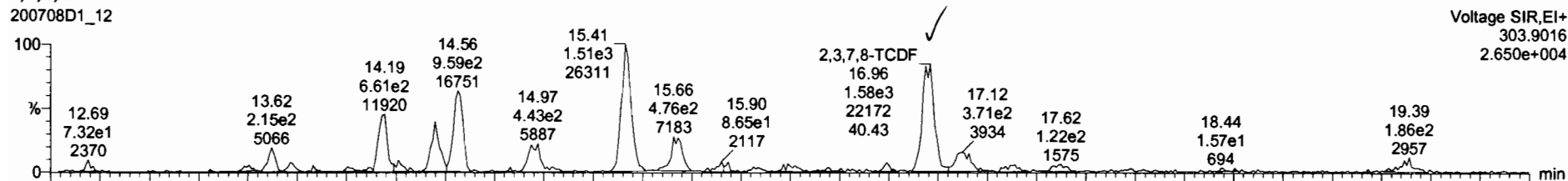
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_12.qld

Last Altered: Wednesday, July 08, 2020 16:21:43 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 16:24:31 Pacific Daylight Time

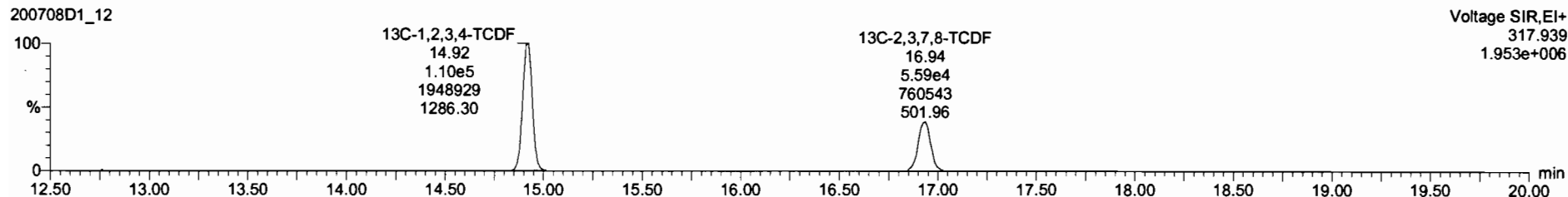
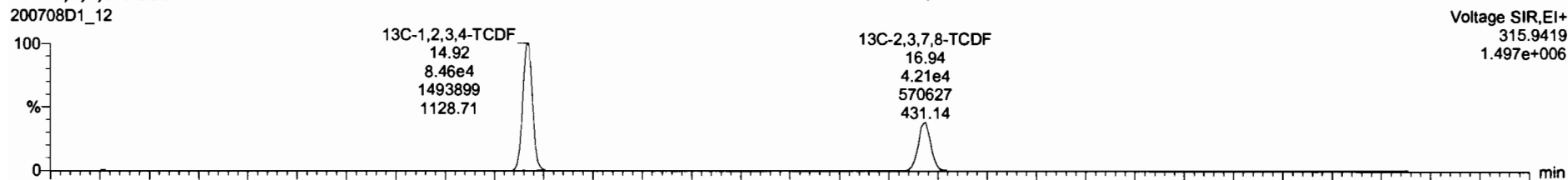
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_12, Date: 08-Jul-2020, Time: 15:57:51, ID: 2001035-08RE1 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

2,3,7,8-TCDF



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



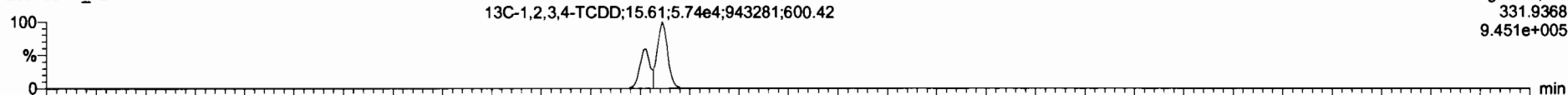
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_12.qld

Last Altered: Wednesday, July 08, 2020 16:21:43 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 16:24:31 Pacific Daylight Time

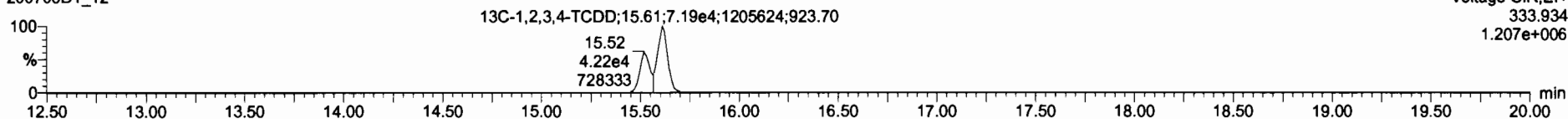
Name: 200708D1_12, Date: 08-Jul-2020, Time: 15:57:51, ID: 2001035-08RE1 PDI-050SC-B-00-02-200508 15.3, Description: PDI-050SC-B-00-02-200508

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

200708D1_12

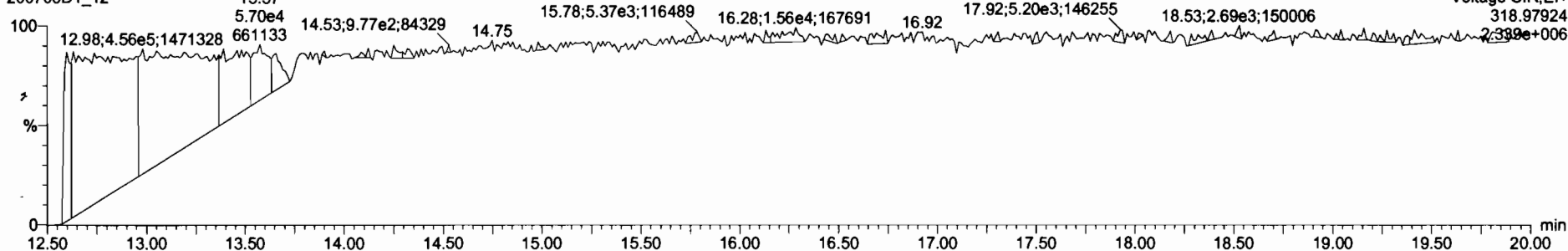


200708D1_12



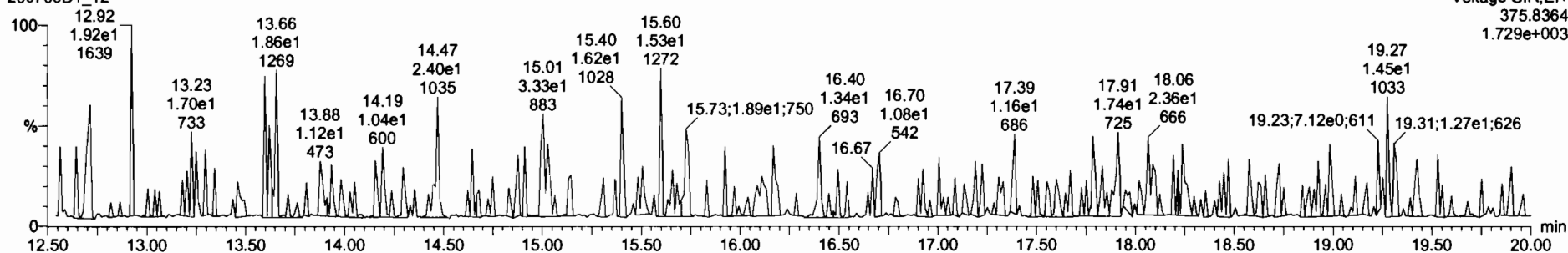
PFK1

200708D1_12



DPE1

200708D1_12



Dataset: U:\VG7.PRO\Results\200708D1\200708D1_13.qld

Last Altered: Wednesday, July 08, 2020 16:52:49 Pacific Daylight Time

Printed: Wednesday, July 08, 2020 16:53:55 Pacific Daylight Time

DB 7/8/20 0707/17/2020

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_13, Date: 08-Jul-2020, Time: 16:29:33, ID: 2001035-11RE1 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDF	2.55e5	0.76	NO	0.982	10.003	16.936	16.95	1.000	1.001	237.65		0.409	238
2	13C-2,3,7,8-TCDF	2.18e5	0.77	NO	1.08	10.003	16.894	16.94	1.133	1.135	180.81	90.4	0.467	
3	13C-1,2,3,4-TCDF	2.23e5	0.78	NO	1.00	10.003	15.060	14.92	1.000	1.000	199.95	100	0.506	

Dataset: U:\VG7.PRO\Results\200708D1\200708D1_13.qld

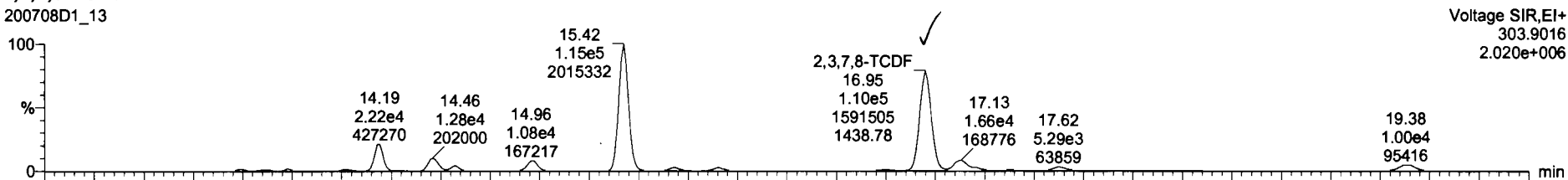
Last Altered: Wednesday, July 08, 2020 16:52:49 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 16:54:13 Pacific Daylight Time

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\ldb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

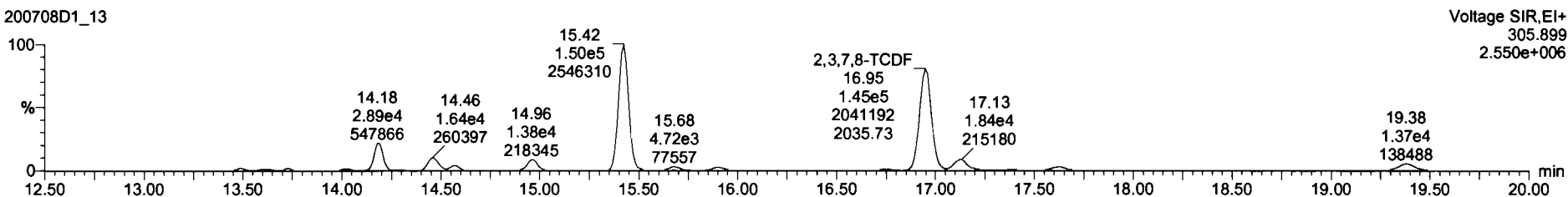
Name: 200708D1_13, Date: 08-Jul-2020, Time: 16:29:33, ID: 2001035-11RE1 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

2,3,7,8-TCDF

200708D1_13

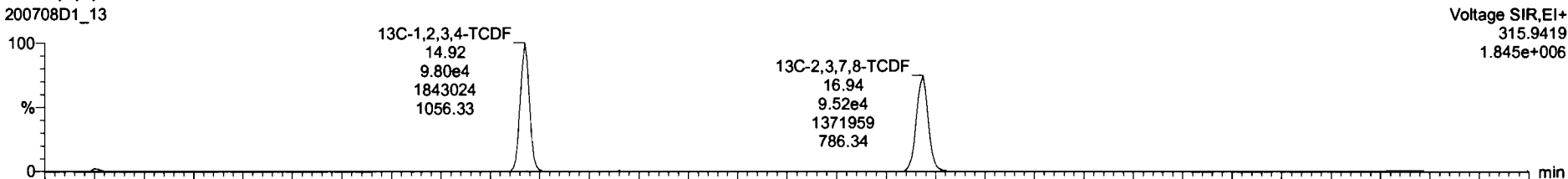


200708D1_13

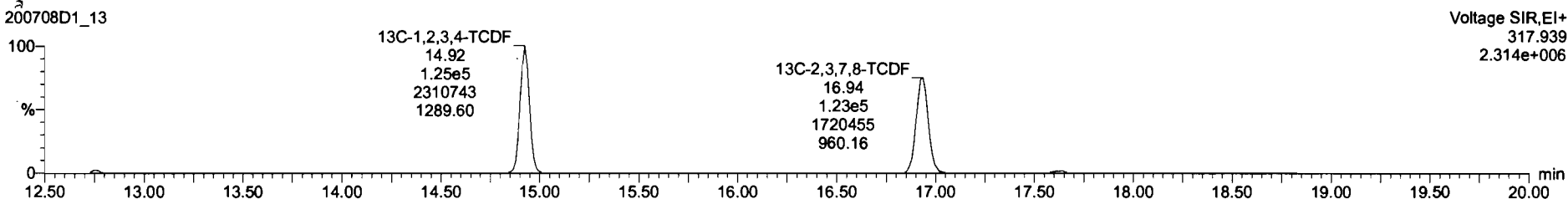


13C-2,3,7,8-TCDF

200708D1_13



200708D1_13



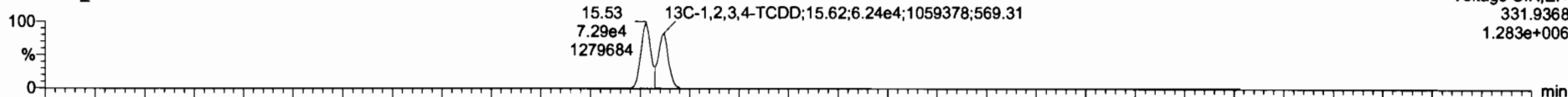
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_13.qld

Last Altered: Wednesday, July 08, 2020 16:52:49 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 16:54:13 Pacific Daylight Time

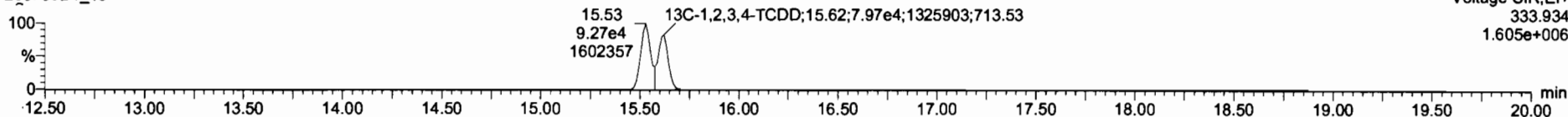
Name: 200708D1_13, Date: 08-Jul-2020, Time: 16:29:33, ID: 2001035-11RE1 PDI-093SC-B-00-02-200508 15.5, Description: PDI-093SC-B-00-02-200508

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

200708D1_13

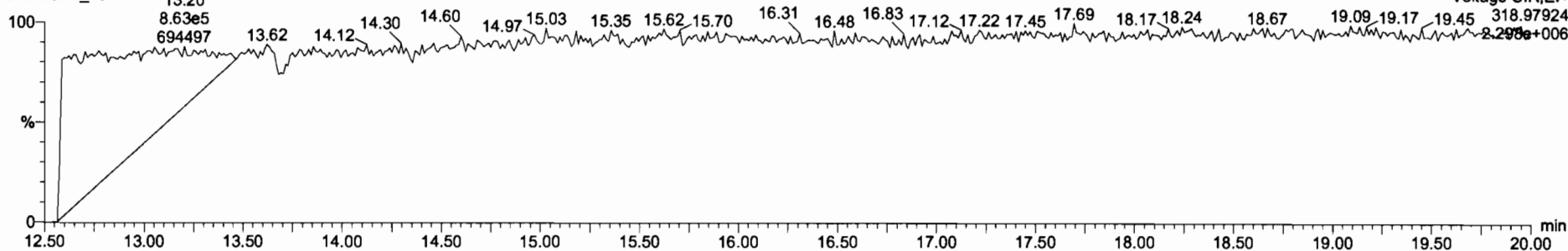


200708D1_13



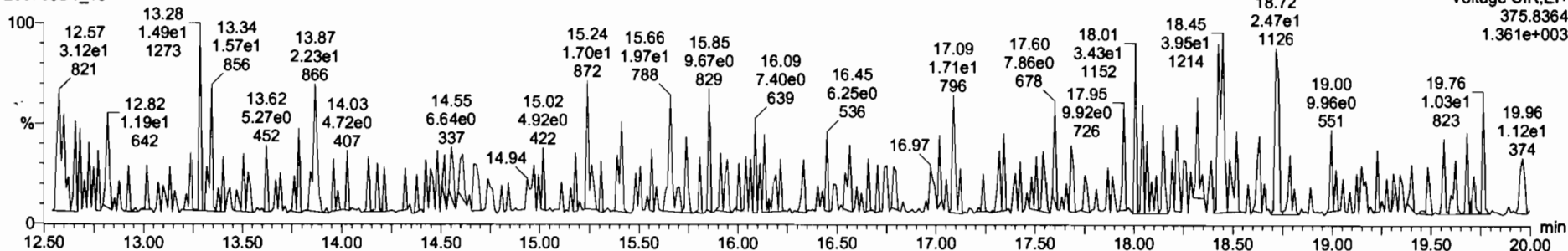
PFK1

200708D1_13



DPE1

200708D1_13



Dataset: U:\VG7.PRO\Results\200708D1\200708D1_14.qld

Last Altered: Thursday, July 09, 2020 10:07:58 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:09:05 Pacific Daylight Time

DB 7/9/20 0707/17/20

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_14, Date: 08-Jul-2020, Time: 17:01:15, ID: 2001035-12RE1 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

#	Name	Resp	RA	iv/y	RRF	wt/vol	Pred RT	RT	Pred RRF	Ret. RRF	Area	Conc	Recovery
1	2,3,7,8-TCDF	8.99e4	0.78	NO	0.982	10.063	16.948	16.96	1.000	1.001	93.020		0.471 93.0
2	13C-2,3,7,8-TCDF	1.96e5	0.76	NO	1.08	10.063	16.906	16.95	1.133	1.135	192.67	96.9	0.987
3	13C-1,2,3,4-TCDF	1.86e5	0.77	NO	1.00	10.063	15.060	14.94	1.000	1.000	198.74	100	1.07

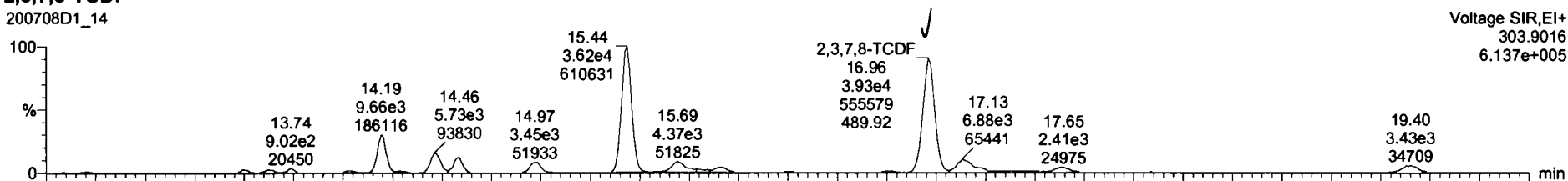
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_14.qld

Last Altered: Thursday, July 09, 2020 10:07:58 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:09:23 Pacific Daylight Time

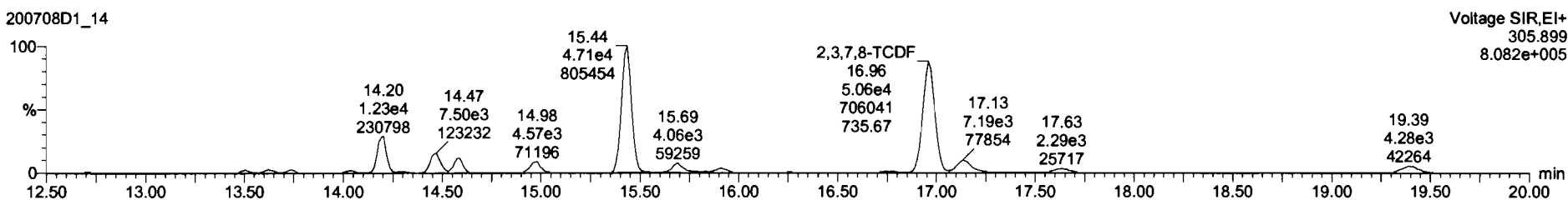
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_14, Date: 08-Jul-2020, Time: 17:01:15, ID: 2001035-12RE1 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

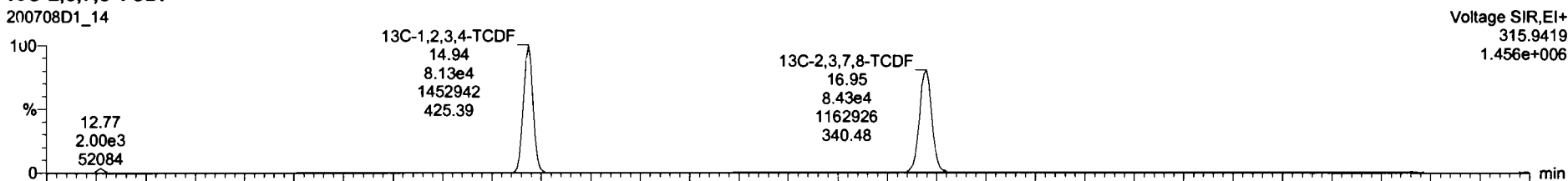
2,3,7,8-TCDF
200708D1_14



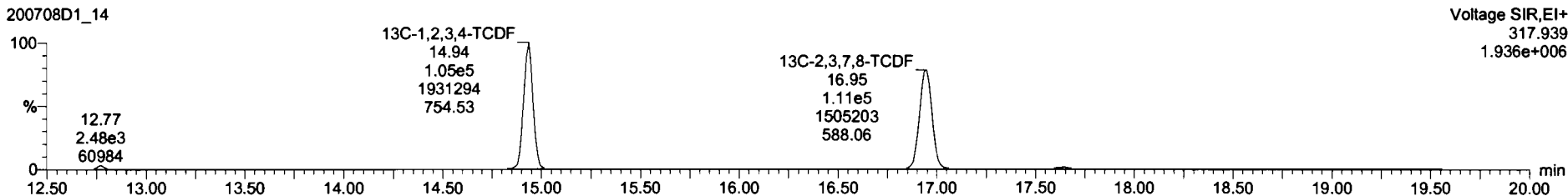
200708D1_14



13C-2,3,7,8-TCDF
200708D1_14



200708D1_14

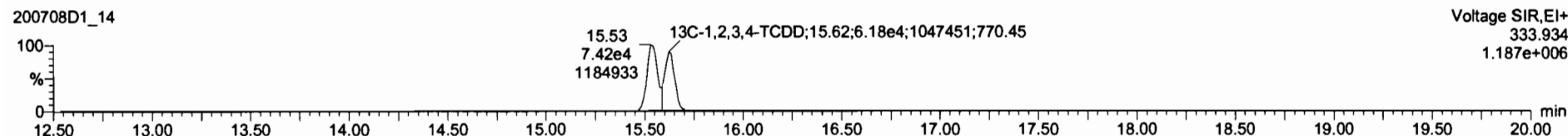
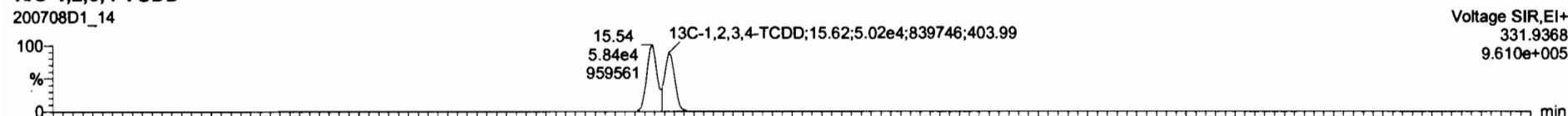


Dataset: U:\VG7.PRO\Results\200708D1\200708D1_14.qld

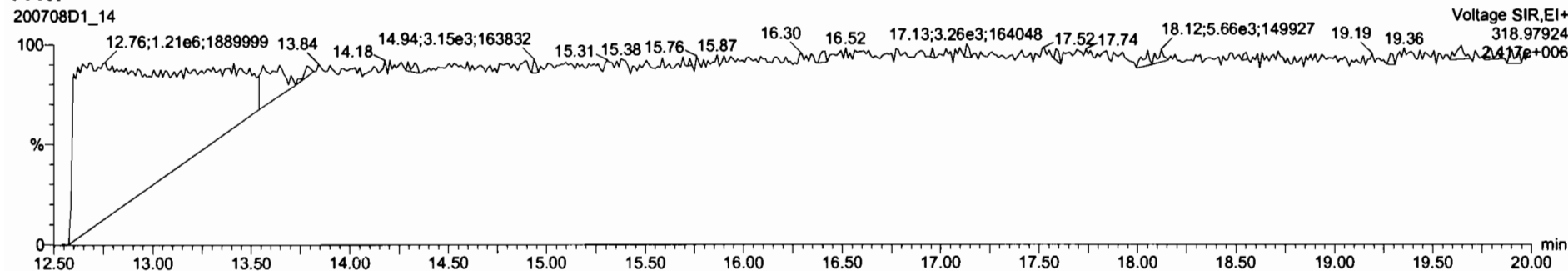
Last Altered: Thursday, July 09, 2020 10:07:58 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:09:23 Pacific Daylight Time

Name: 200708D1_14, Date: 08-Jul-2020, Time: 17:01:15, ID: 2001035-12RE1 PDI-093SC-B-02-05-200508 17.67, Description: PDI-093SC-B-02-05-200508

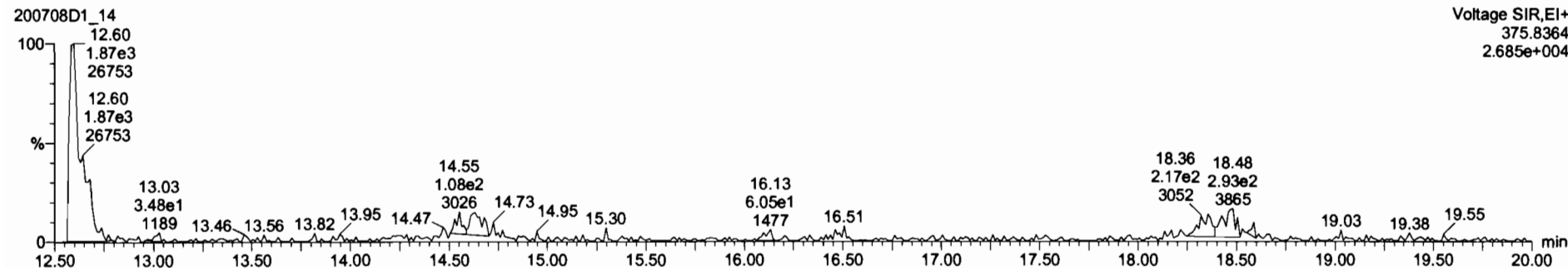
1-C-1,2,3,4-TCDD



PFK1



DPE1



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Calibration ID: ST200623R2-1

Reviewed By: GT 06/24/2020
Initials & Date

End Calibration ID: NA

	<u>Req.</u>	<u>End</u>		<u>Req.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox" value="NA"/>	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox" value="NA"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<u>GRB</u>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox" value="↓"/>			
- Samples within 12 hour clock?	<input checked="" type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<u>GRB</u>	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-1.qld

Last Altered: Tuesday, June 23, 2020 3:59:43 PM Pacific Daylight Time

Printed: Tuesday, June 23, 2020 4:00:03 PM Pacific Daylight Time

GRB 06/23/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

06/24/2020

Name: 200623R2_1, Date: 23-Jun-2020, Time: 15:03:14, ID: ST200623R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	6.85e4	8.00e5	0.78	NO	0.888	26.50	26.50	NO	1.001	1.001	9.6449	96.4	NO
2	2 1,2,3,7,8-PeCDD	2.15e5	5.07e5	0.61	NO	0.908	31.46	31.47	NO	1.001	1.001	46.708	93.4	NO
3	3 1,2,3,4,7,8-HxCDD	1.50e5	2.97e5	1.28	NO	1.03	34.82	34.84	NO	1.000	1.001	48.967	97.9	NO
4	4 1,2,3,6,7,8-HxCDD	1.66e5	3.99e5	1.17	NO	0.892	34.92	34.94	NO	1.000	1.001	46.764	93.5	NO
5	5 1,2,3,7,8,9-HxCDD	1.47e5	3.44e5	1.26	NO	0.887	35.22	35.22	NO	1.000	1.000	48.045	96.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.07e5	2.50e5	1.03	NO	0.864	38.77	38.77	NO	1.000	1.000	49.614	99.2	NO
7	7 OCDD	1.87e5	4.04e5	0.87	NO	0.914	41.75	41.76	NO	1.000	1.000	101.09	101	NO
8	8 2,3,7,8-TCDF	7.63e4	1.02e6	0.77	NO	0.751	25.61	25.60	NO	1.001	1.001	10.011	100	NO
9	9 1,2,3,7,8-PeCDF	3.33e5	7.72e5	1.53	NO	0.893	30.17	30.17	NO	1.001	1.001	48.290	96.6	NO
10	10 2,3,4,7,8-PeCDF	3.33e5	7.39e5	1.55	NO	0.935	31.18	31.16	NO	1.001	1.000	48.147	96.3	NO
11	11 1,2,3,4,7,8-HxCDF	1.77e5	3.95e5	1.23	NO	0.884	33.94	33.96	NO	1.000	1.001	50.782	102	NO
12	12 1,2,3,6,7,8-HxCDF	2.07e5	4.72e5	1.20	NO	0.889	34.08	34.08	NO	1.000	1.000	49.325	98.7	NO
13	13 2,3,4,6,7,8-HxCDF	1.85e5	4.07e5	1.20	NO	0.934	34.69	34.67	NO	1.001	1.000	48.721	97.4	NO
14	14 1,2,3,7,8,9-HxCDF	1.40e5	3.18e5	1.20	NO	0.871	35.57	35.58	NO	1.000	1.000	50.565	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.30e5	2.85e5	0.97	NO	0.873	37.39	37.36	NO	1.001	1.000	52.208	104	NO
16	16 1,2,3,4,7,8,9-HpCDF	9.23e4	1.75e5	1.01	NO	1.01	39.30	39.31	NO	1.000	1.000	52.189	104	NO
17	17 OCDF	1.89e5	4.55e5	0.87	NO	0.806	41.94	41.95	NO	1.000	1.000	103.16	103	NO
18	18 13C-2,3,7,8-TCDD	8.00e5	6.82e5	0.80	NO	1.16	26.49	26.47	NO	1.026	1.026	101.31	101	NO
19	19 13C-1,2,3,7,8-PeCDD	5.07e5	6.82e5	0.62	NO	0.849	31.67	31.44	NO	1.227	1.218	87.563	87.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.97e5	3.80e5	1.26	NO	0.779	34.82	34.81	NO	1.014	1.014	100.49	100	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.99e5	3.80e5	1.21	NO	1.02	34.93	34.92	NO	1.017	1.017	103.29	103	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.44e5	3.80e5	1.25	NO	0.903	35.20	35.21	NO	1.025	1.025	100.29	100	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.50e5	3.80e5	1.03	NO	0.689	38.73	38.76	NO	1.128	1.129	95.401	95.4	NO
24	24 13C-OCDD	4.04e5	3.80e5	0.89	NO	0.652	41.75	41.75	NO	1.216	1.216	163.30	81.6	NO
25	25 13C-2,3,7,8-TCDF	1.02e6	9.88e5	0.78	NO	1.06	25.53	25.59	NO	0.989	0.991	96.978	97.0	NO
26	26 13C-1,2,3,7,8-PeCDF	7.72e5	9.88e5	1.60	NO	0.838	30.06	30.15	NO	1.165	1.168	93.208	93.2	NO
27	27 13C-2,3,4,7,8-PeCDF	7.39e5	9.88e5	1.58	NO	0.817	31.01	31.15	NO	1.202	1.207	91.609	91.6	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.95e5	3.80e5	0.51	NO	1.01	33.95	33.94	NO	0.989	0.989	103.23	103	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.72e5	3.80e5	0.51	NO	1.17	34.07	34.07	NO	0.992	0.992	106.57	107	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.07e5	3.80e5	0.49	NO	1.02	34.65	34.65	NO	1.009	1.009	104.94	105	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.18e5	3.80e5	0.52	NO	0.860	35.55	35.57	NO	1.035	1.036	97.409	97.4	NO

Dataset: U:\VG12.PRO\Results\200623R2\200623R2-1.qld

Last Altered: Tuesday, June 23, 2020 3:59:43 PM Pacific Daylight Time

Printed: Tuesday, June 23, 2020 4:00:03 PM Pacific Daylight Time

Name: 200623R2_1, Date: 23-Jun-2020, Time: 15:03:14, ID: ST200623R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.85e5	3.80e5	0.42	NO	0.774	37.30	37.35	NO	1.086	1.088	96.905	96.9	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.75e5	3.80e5	0.44	NO	0.521	39.32	39.30	NO	1.145	1.145	88.236	88.2	NO
34	34 13C-OCDF	4.55e5	3.80e5	0.91	NO	0.746	41.92	41.94	NO	1.221	1.221	160.58	80.3	NO
35	35 37Cl-2,3,7,8-TCDD	7.08e4	6.82e5			1.04	26.52	26.50	NO	1.028	1.027	10.000	100	NO
36	36 13C-1,2,3,4-TCDD	6.82e5	6.82e5	0.80	NO	1.00	25.89	25.81	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	9.88e5	9.88e5	0.78	NO	1.00	24.36	24.13	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	3.80e5	3.80e5	0.51	NO	1.00	34.42	34.34	NO	1.000	1.000	100.00	100	YES ^{OK}

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 6:59:50 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:00:29 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

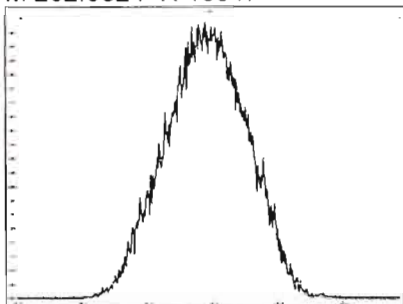
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200623R2_1	ST200623R2_1 1613 CS3 19L2305	23-Jun-20	15:03:14
2	200623R2_2	B0E0145-BS1 OPR 10	23-Jun-20	15:51:40
3	200623R2_3	SOLVENT BLANK	23-Jun-20	16:37:54
4	200623R2_4	B0E0145-BLK1 Method Blank 10	23-Jun-20	17:24:07
5	200623R2_5	2001035-01 PDI-050SC-A-00-01-200508 14.34	23-Jun-20	18:10:17
6	200623R2_6	2001035-02 PDI-050SC-A-01-02-200508 14.46	23-Jun-20	18:56:28
7	200623R2_7	2001035-03 PDI-050SC-A-02-03-200508 15.61	23-Jun-20	19:42:41
8	200623R2_8	2001035-04 PDI-050SC-A-03-04-200508 15.71	23-Jun-20	20:28:51
9	200623R2_9	B0E0145-DUP1 Duplicate 15.62	23-Jun-20	21:15:03
10	200623R2_10	2001035-05 PDI-050SC-A-04-05-200508 15.81	23-Jun-20	22:01:15
11	200623R2_11	2001035-06 PDI-050SC-A-05-06-200508 15.85	23-Jun-20	22:47:29
12	200623R2_12	2001035-07 PDI-050SC-A-06-07-200508 15.98	23-Jun-20	23:33:39
13	200623R2_13	2001035-08 PDI-050SC-B-00-02-200508 15.3	24-Jun-20	00:19:51
14	200623R2_14	2001035-09 PDI-050SC-B-02-05-200508 15.78	24-Jun-20	01:06:04
15	200623R2_15	2001035-10 PDI-050SC-B-05-07-200508 15.72	24-Jun-20	01:52:14
16	200623R2_16	2001035-11 PDI-093SC-B-00-02-200508 15.5	24-Jun-20	02:38:26

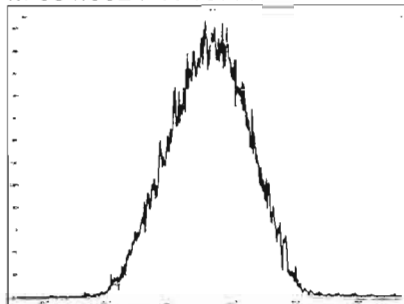
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, June 23, 2020 14:58:44 Pacific Daylight Time

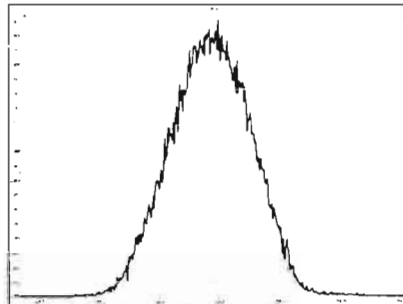
M 292.9824 R 10547



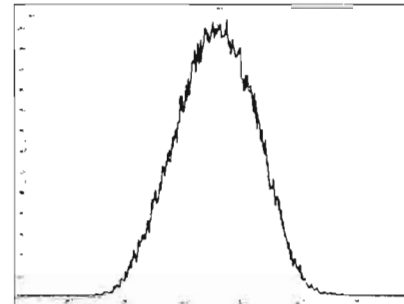
M 304.9824 R 10777



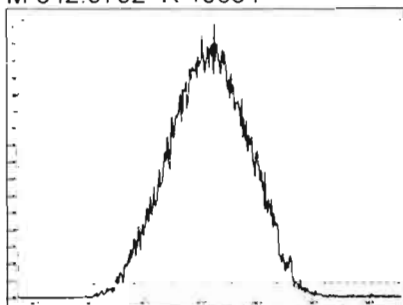
M 318.9792 R 10460



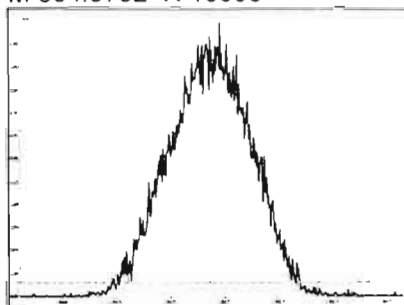
M 330.9792 R 10333



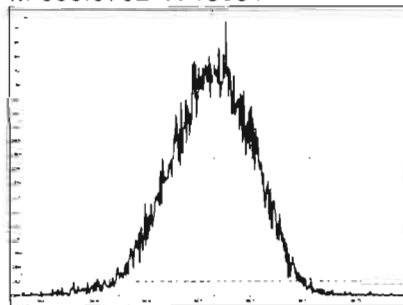
M 342.9792 R 10684



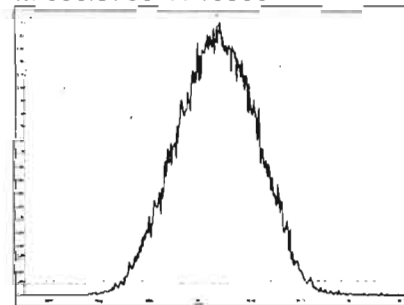
M 354.9792 R 10596



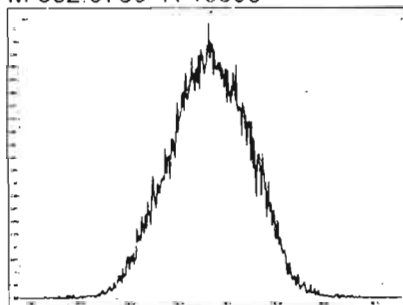
M 366.9792 R 10081



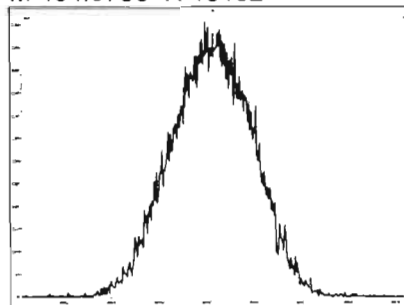
M 380.9760 R 10503



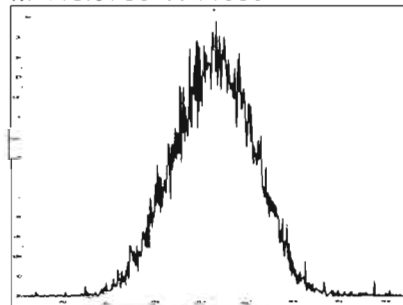
M 392.9760 R 10590



M 404.9760 R 10162



M 416.9760 R 11059



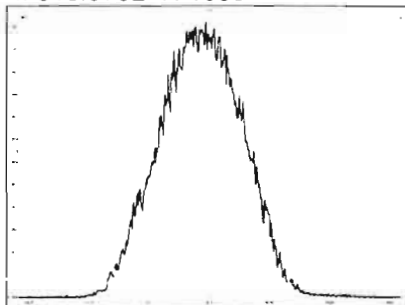
Experiment Calibration Report

MassLynx 4.1 SCN815

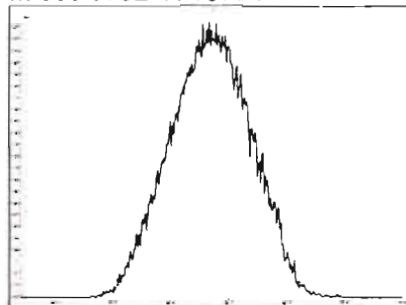
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, June 23, 2020 14:59:13 Pacific Daylight Time

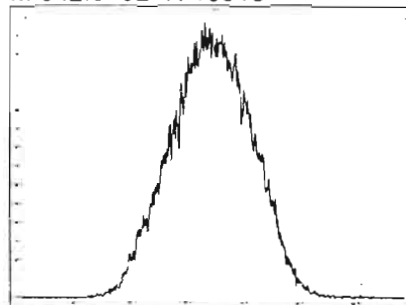
M 318.9792 R 10331



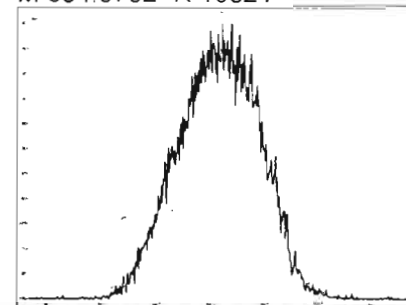
M 330.9792 R 10774



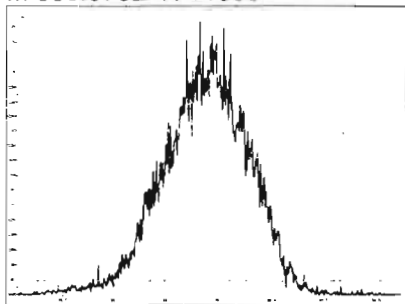
M 342.9792 R 10918



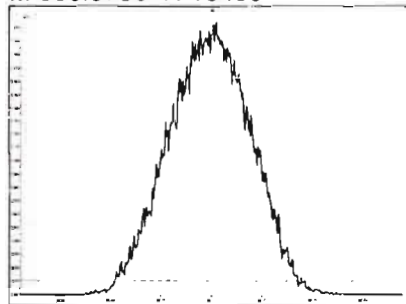
M 354.9792 R 10821



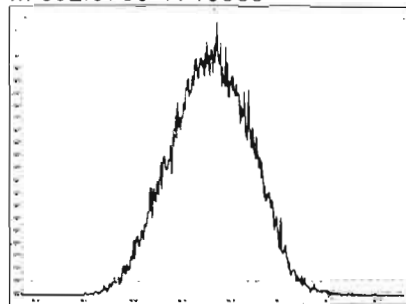
M 366.9792 R 11063



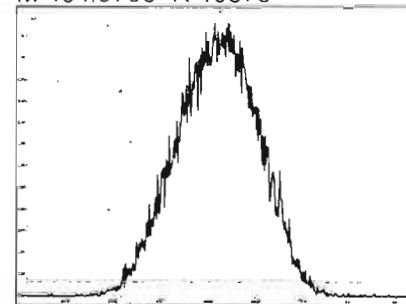
M 380.9760 R 10460



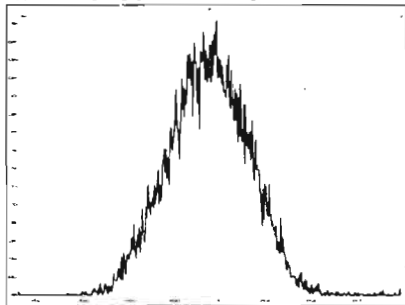
M 392.9760 R 10636



M 404.9760 R 10373



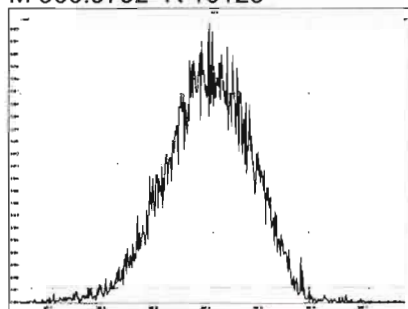
M 416.9760 R 10415



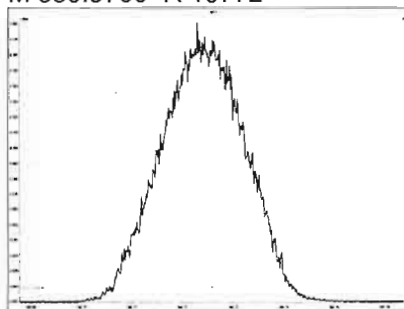
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, June 23, 2020 15:00:16 Pacific Daylight Time

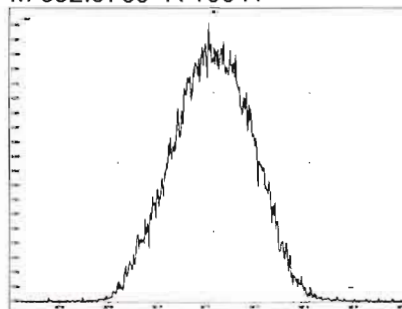
M 366.9792 R 10123



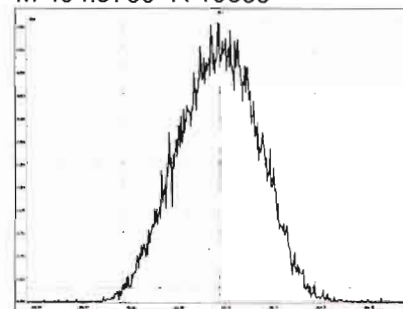
M 380.9760 R 10772



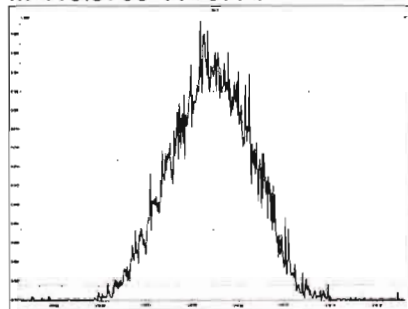
M 392.9760 R 10641



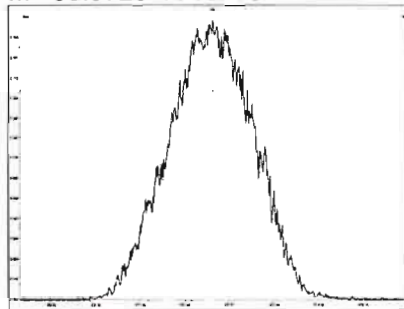
M 404.9760 R 10639



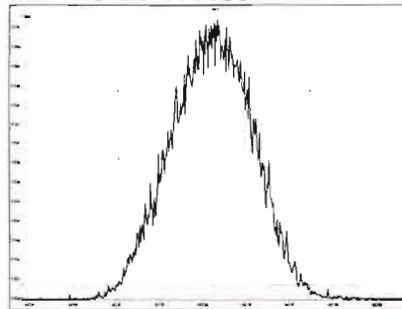
M 416.9760 R 10774



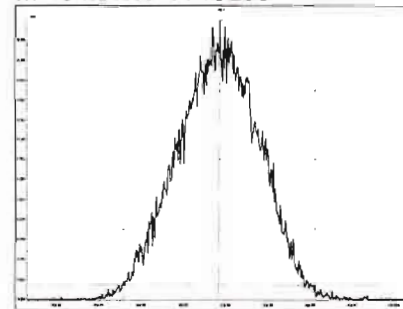
M 430.9728 R 10285



M 442.9728 R 10504



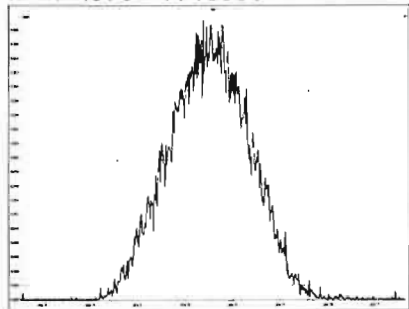
M 454.9728 R 10289



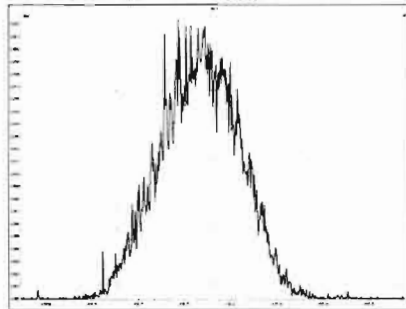
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, June 23, 2020 15:00:39 Pacific Daylight Time

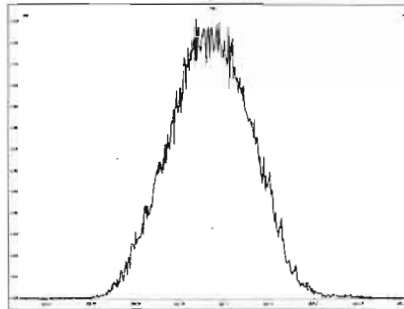
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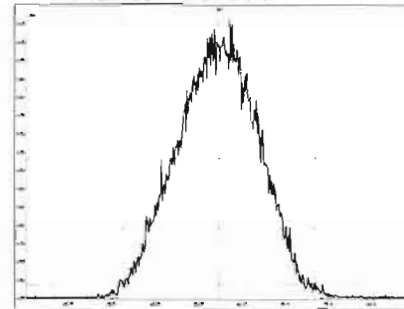
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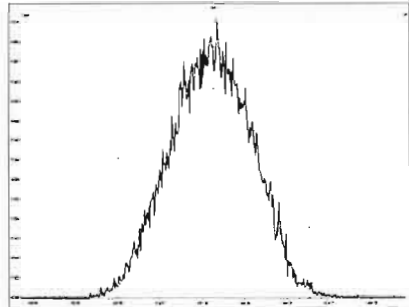
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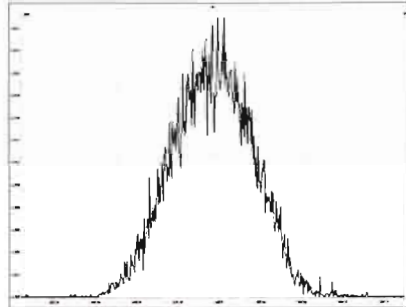
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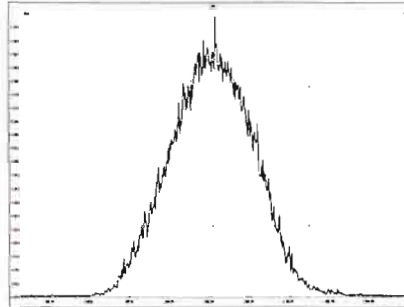
M 454.9728 R 10732



M 466.9728 R 11262



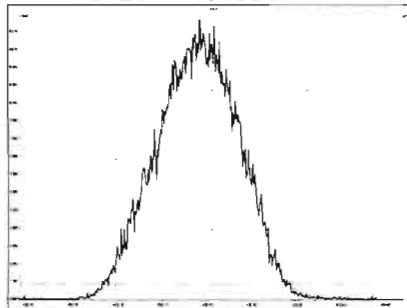
M 480.9696 R 10245



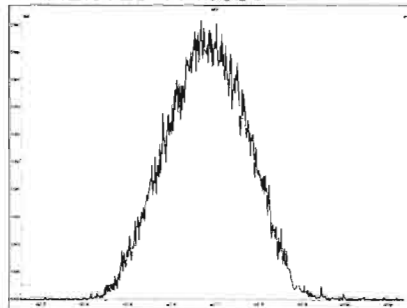
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, June 23, 2020 15:01:00 Pacific Daylight Time

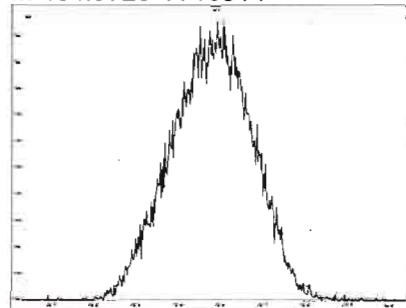
M 430.9728 R 10163



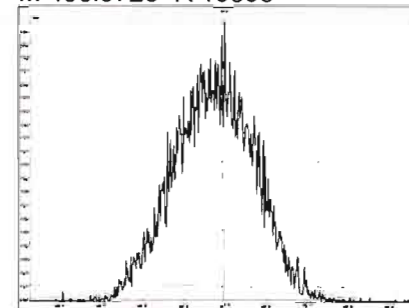
M 442.9728 R 10963



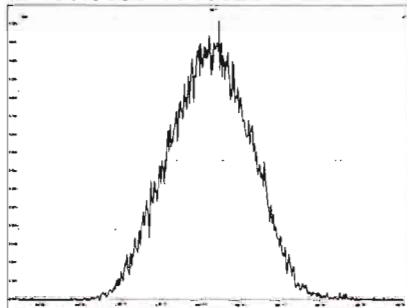
M 454.9728 R 10914



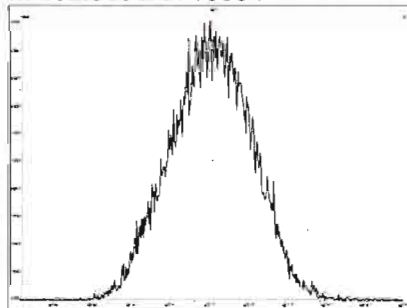
M 466.9728 R 10503



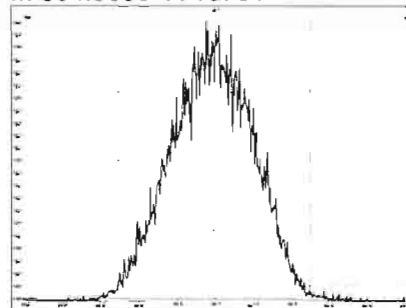
M 480.9696 R 10824



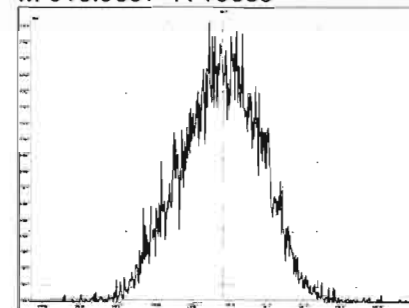
M 492.9696 R 10504



M 504.9696 R 10731



M 516.9697 R 10639



Dataset: Untitled

Last Altered: Tuesday, June 23, 2020 3:50:32 PM Pacific Daylight Time

Printed: Tuesday, June 23, 2020 3:50:41 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R2_1, Date: 23-Jun-2020, Time: 15:03:14, ID: ST200623R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.47
2	1,2,8,9-TCDD (Last)	27.46
3	1,2,4,7,9-PeCDD (First)	29.24
4	1,2,3,8,9-PeCDD (Last)	31.85
5	1,2,4,6,7,9-HxCDD (First)	33.33
6	1,2,3,7,8,9-HxCDD (Last)	35.22
7	1,2,3,4,6,7,9-HpCDD (First)	37.75
8	1,2,3,4,6,7,8-HpCDD (Last)	38.77
9	1,3,6,8-TCDF (First)	20.33
10	1,2,8,9-TCDF (Last)	27.61
11	1,3,4,6,8-PeCDF (First)	27.56
12	1,2,3,8,9-PeCDF (Last)	32.09
13	1,2,3,4,6,8-HxCDF (First)	32.78
14	1,2,3,7,8,9-HxCDF (Last)	35.58
15	1,2,3,4,6,7,8-HpCDF (First)	37.36
16	1,2,3,4,7,8,9-HpCDF (Last)	39.31

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, June 23, 2020 3:50:32 PM Pacific Daylight Time

Printed: Tuesday, June 23, 2020 3:50:41 PM Pacific Daylight Time

GRB 06/23/2020

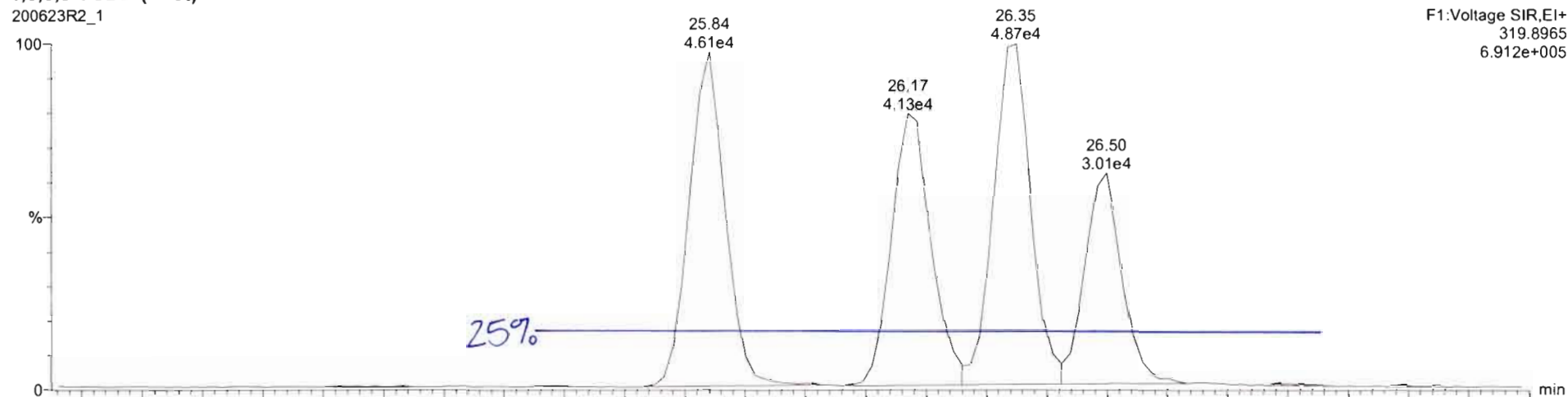
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

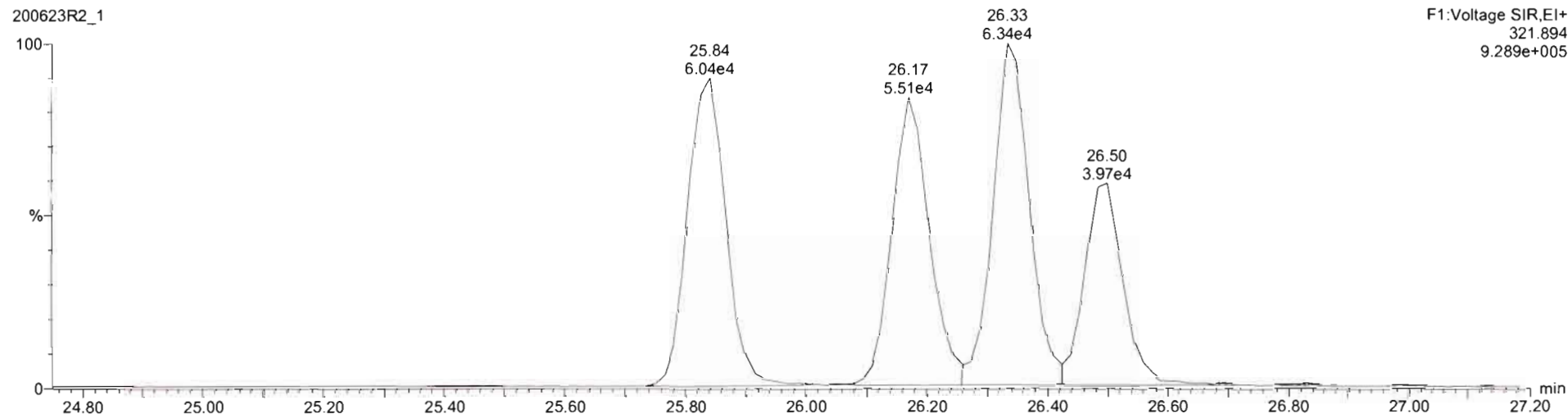
Name: 200623R2_1, Date: 23-Jun-2020, Time: 15:03:14, ID: ST200623R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200623R2_1



200623R2_1



Dataset: Untitled

Last Altered: Tuesday, June 23, 2020 3:53:07 PM Pacific Daylight Time
Printed: Tuesday, June 23, 2020 3:53:11 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

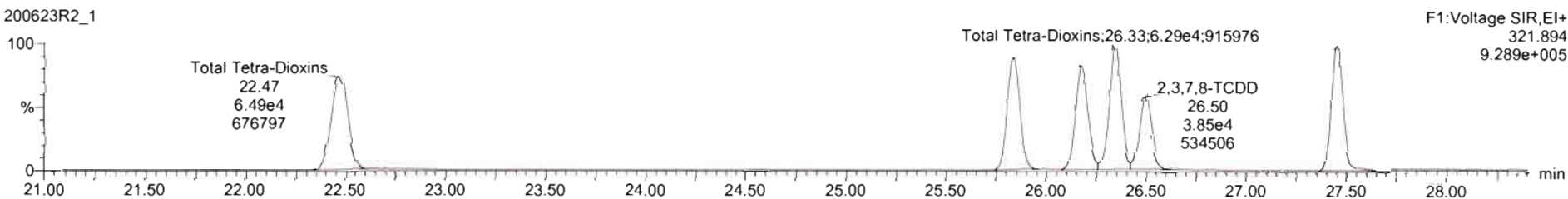
Name: 200623R2_1, Date: 23-Jun-2020, Time: 15:03:14, ID: ST200623R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200623R2_1

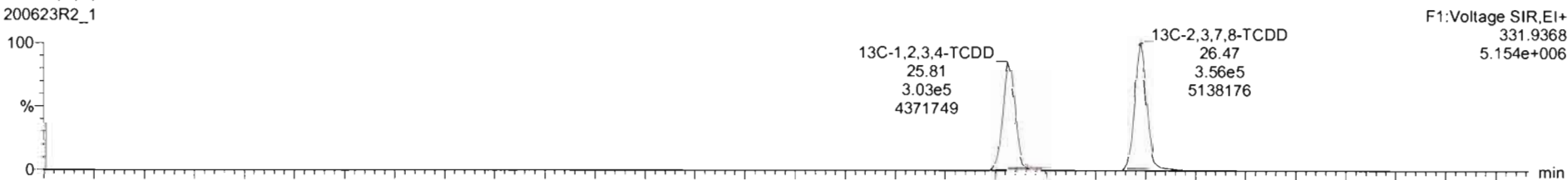


200623R2_1

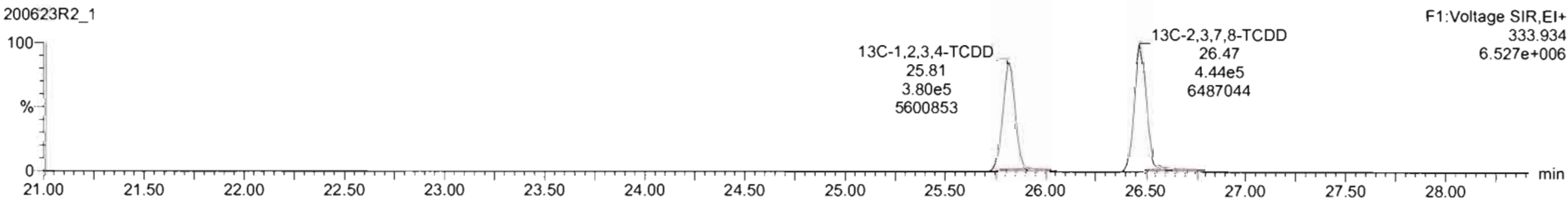


13C-2,3,7,8-TCDD

200623R2_1



200623R2_1



Dataset: Untitled

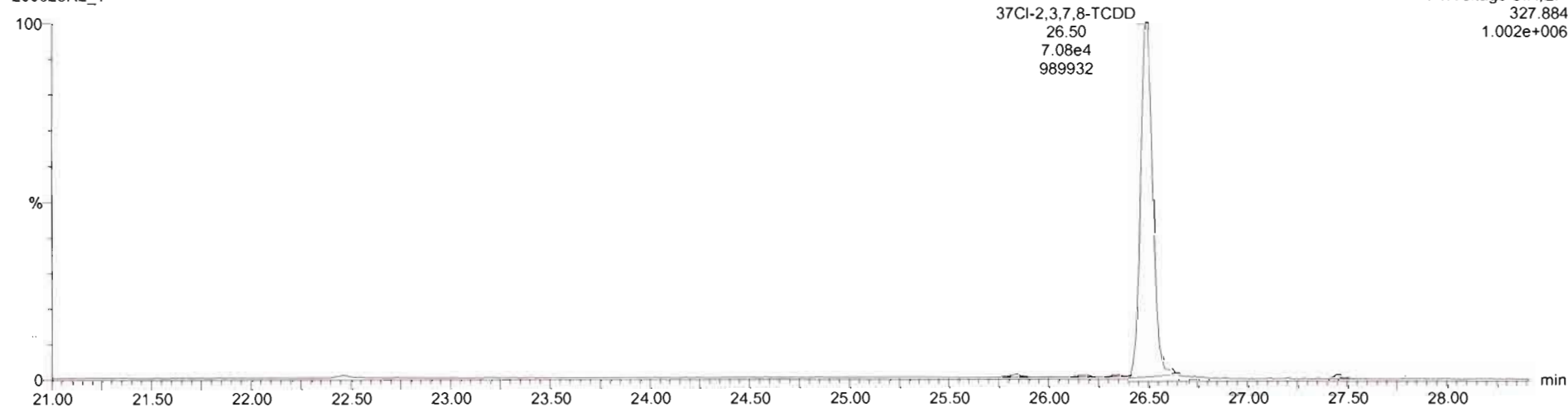
Last Altered: Tuesday, June 23, 2020 3:53:07 PM Pacific Daylight Time

Printed: Tuesday, June 23, 2020 3:53:11 PM Pacific Daylight Time

Name: 200623R2_1, Date: 23-Jun-2020, Time: 15:03:14, ID: ST200623R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

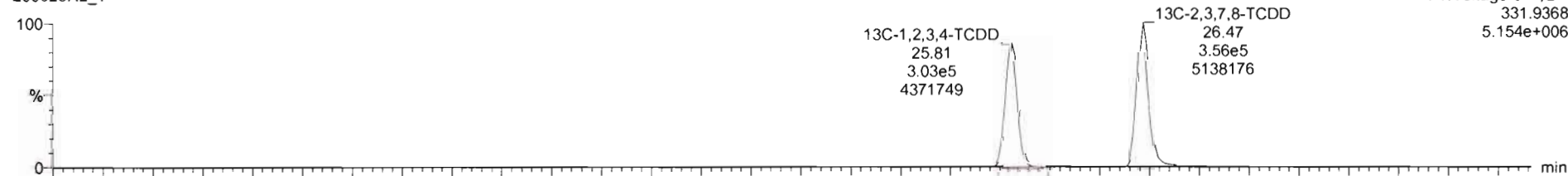
37Cl-2,3,7,8-TCDD

200623R2_1

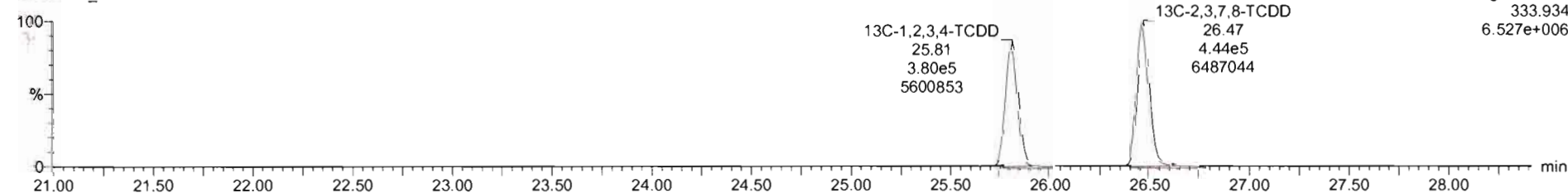


13C-1,2,3,4-TCDD

200623R2_1



200623R2_1



Dataset: Untitled

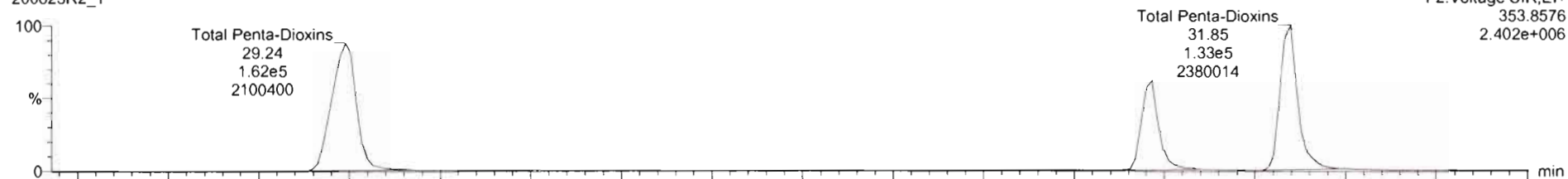
Last Altered: Tuesday, June 23, 2020 3:53:07 PM Pacific Daylight Time

Printed: Tuesday, June 23, 2020 3:53:11 PM Pacific Daylight Time

Name: 200623R2_1, Date: 23-Jun-2020, Time: 15:03:14, ID: ST200623R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

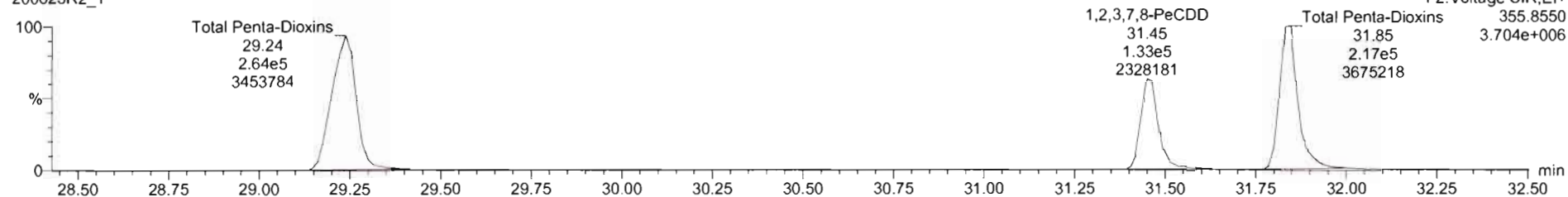
1,2,3,7,8-PeCDD

200623R2_1



F2:Voltage SIR,EI+
353.8576
2.402e+006

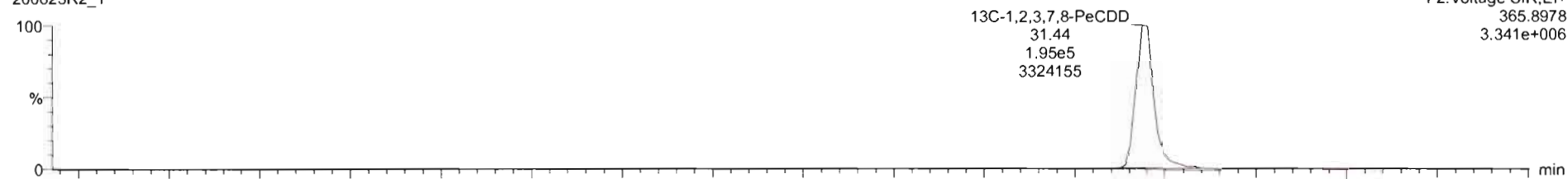
200623R2_1



F2:Voltage SIR,EI+
355.8550
3.704e+006

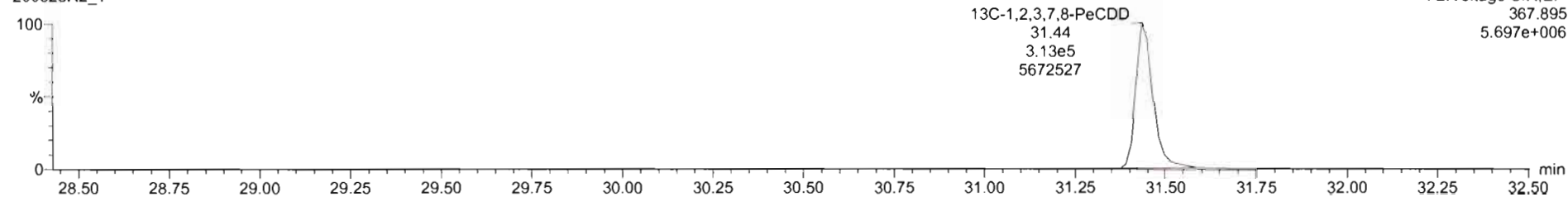
13C-1,2,3,7,8-PeCDD

200623R2_1



F2:Voltage SIR,EI+
365.8978
3.341e+006

200623R2_1



F2:Voltage SIR,EI+
367.895
5.697e+006

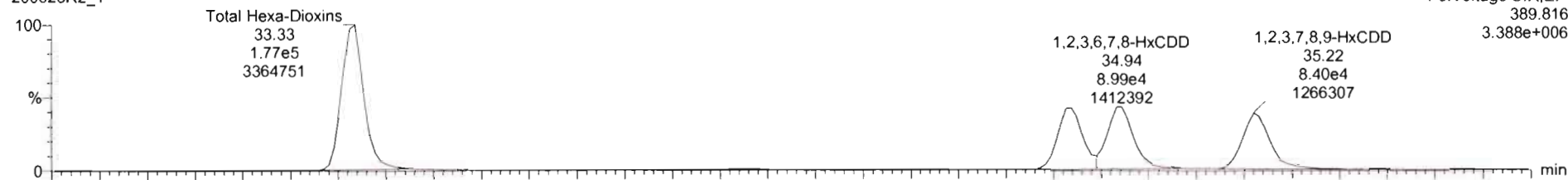
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Last Altered: Tuesday, June 23, 2020 3:53:07 PM Pacific Daylight Time
Printed: Tuesday, June 23, 2020 3:53:11 PM Pacific Daylight Time

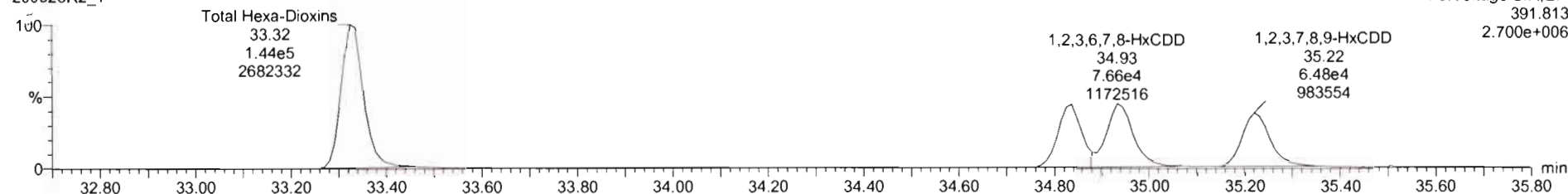
Name: 200623R2_1, Date: 23-Jun-2020, Time: 15:03:14, ID: ST200623R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200623R2_1

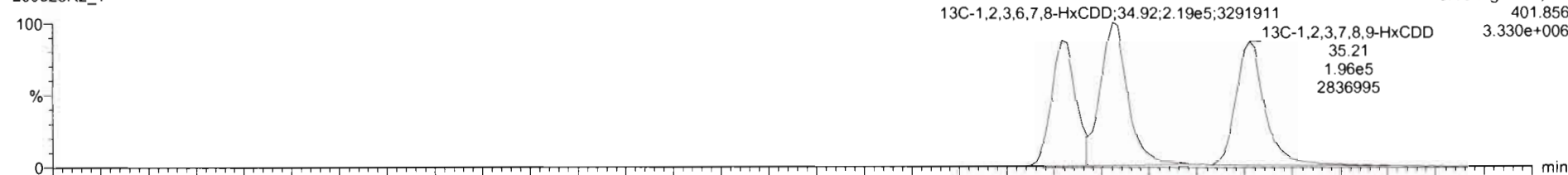


200623R2_1

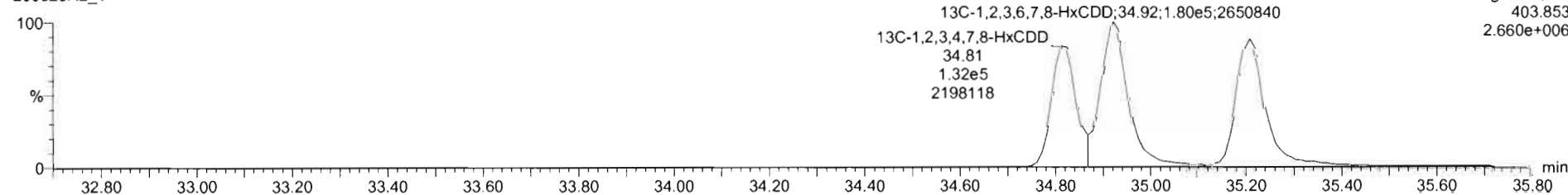


13C-1,2,3,4,7,8-HxCDD

200623R2_1



200623R2_1

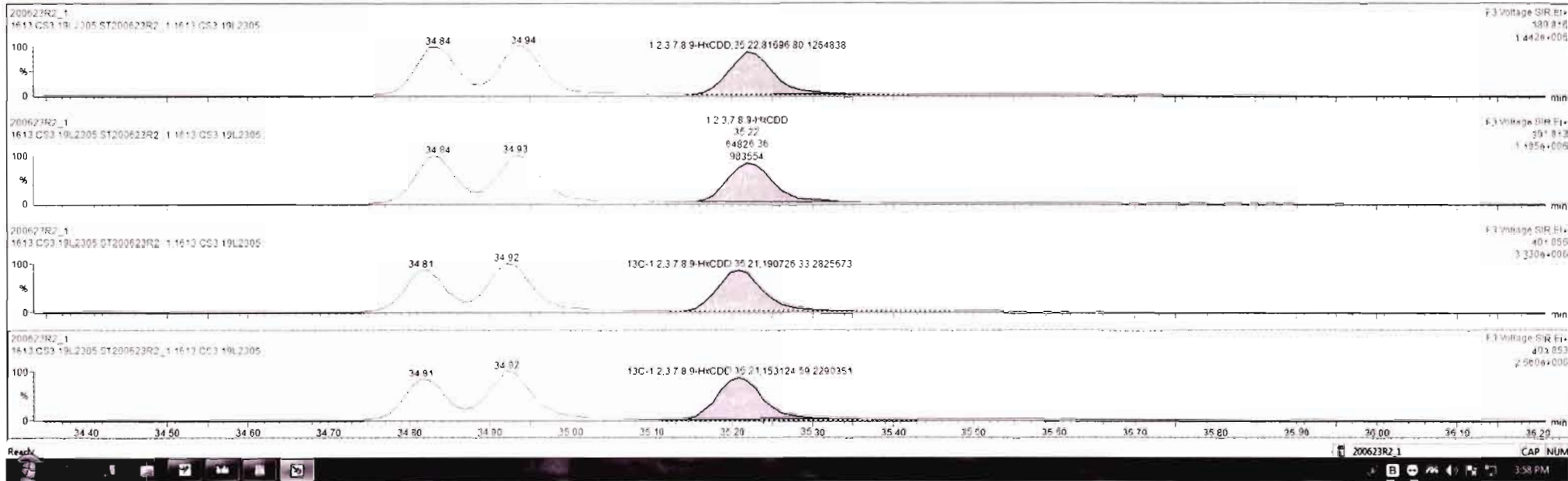


TargetLynx - 200623R2 - Liquid - [Chromatogram]

File Edit View Display Processing Window Help

200623R2_1 - ST200623R2_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	6.85e4	8.00e5	0.77	0.78	NO	0.8883	26.50	26.50	NO	1.001	1.001	9.64	96.4	NO
2	1,2,3,7,8-PeCDD	2.11e5	5.07e5	0.63	0.61	NO	0.9081	31.46	31.47	NO	1.001	1.001	46.7	93.4	NO
3	1,2,3,4,7,8-HxCDD	1.50e5	2.97e5	1.24	1.28	NO	1.0334	34.82	34.84	NO	1.000	1.001	49.0	97.9	NO
4	1,2,3,6,7,8-HxCDD	1.66e5	3.99e5	1.24	1.17	NO	0.8923	34.92	34.94	NO	1.000	1.001	46.8	93.5	NO
5	1,2,3,7,8,9-HxCDD	1.47e5	3.44e5	1.24	1.26	NO	0.8689	35.22	35.22	NO	1.000	1.000	48.0	96.1	NO
6	1,2,3,4,6,7,8-HpCDD	1.08e5	2.53e5	1.04	1.00	NO	0.8639	38.77	38.77	NO	1.000	1.000	49.6	99.2	NO
7	OCDD	1.87e5	4.04e5	0.89	0.87	NO	0.9136	41.75	41.76	NO	1.000	1.000	101	101	NO
8	2,3,7,8-TCDF	7.53e4	1.02e6	0.77	0.77	NO	0.7510	25.61	25.60	NO	1.001	1.001	10.0	100	NO
9	1,2,3,7,8-PeCDF	3.33e5	7.72e5	1.55	1.53	NO	0.8925	30.17	30.17	NO	1.001	1.001	48.3	96.6	NO
10	2,3,4,7,8-PeCDF	3.33e5	7.39e5	1.55	1.55	NO	0.9348	31.18	31.16	NO	1.001	1.000	48.1	96.3	NO
11	1,2,3,4,7,8-HxCDF	1.77e5	3.95e5	1.24	1.23	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.8	102	NO
12	1,2,3,6,7,8-HxCDF	2.07e5	4.72e5	1.24	1.20	NO	0.8692	34.08	34.05	NO	1.000	1.000	49.3	98.7	NO
13	2,3,4,6,7,8-HxCDF	1.85e5	4.11e5	1.24	1.20	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.3	96.5	NO
14	1,2,3,7,8,9-HxCDF	1.40e5	3.18e5	1.24	1.20	NO	0.8707	35.57	35.58	NO	1.000	1.000	50.6	101	NO
15	1,2,3,4,6,7,8-HpCDF	1.30e5	2.85e5	1.04	0.97	NO	0.8734	37.39	37.36	NO	1.001	1.000	52.2	104	NO
16	1,2,3,4,7,8,9-HpCDF	9.23e4	1.75e5	1.04	1.01	NO	1.0128	39.30	39.31	NO	1.000	1.000	52.2	104	NO
17	OCDF	1.91e5	4.55e5	0.89	0.86	NO	0.8665	41.94	41.95	NO	1.000	1.000	104	104	NO
18	13C-2,3,7,8-TCDD	8.00e5	6.82e5	0.77	0.80	NO	1.1563	26.49	26.47	NO	1.026	1.026	101	101	NO
19	13C-1,2,3,7,8-PeCDD	5.07e5	6.82e5	0.63	0.62	NO	0.8490	31.67	31.44	NO	1.227	1.218	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.97e5	3.90e5	1.24	1.25	NO	0.7790	34.82	34.81	NO	1.014	1.014	100	100	NO
21	13C-1,2,3,6,7,8-HxCDD	3.99e5	3.80e5	1.24	1.21	NO	1.0167	34.93	34.92	NO	1.017	1.017	103	103	NO



Dataset: Untitled

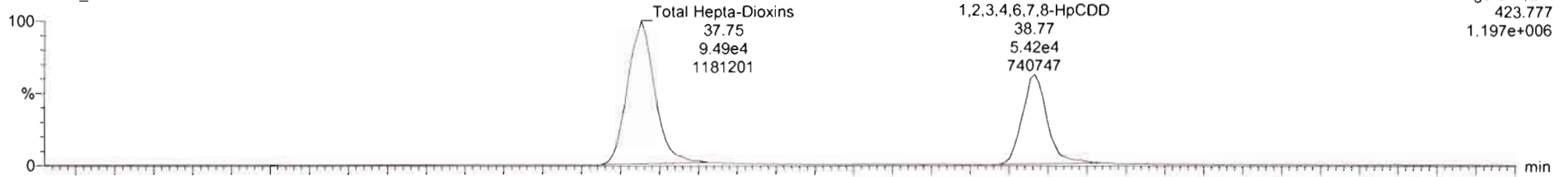
Last Altered: Tuesday, June 23, 2020 3:53:07 PM Pacific Daylight Time

Printed: Tuesday, June 23, 2020 3:53:11 PM Pacific Daylight Time

Name: 200623R2_1, Date: 23-Jun-2020, Time: 15:03:14, ID: ST200623R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

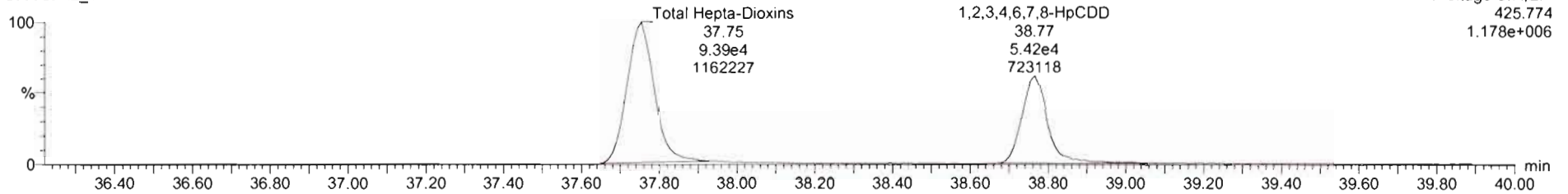
1,2,3,4,6,7,8-HpCDD

200623R2_1



F4:Voltage SIR,EI+
423.777
1.197e+006

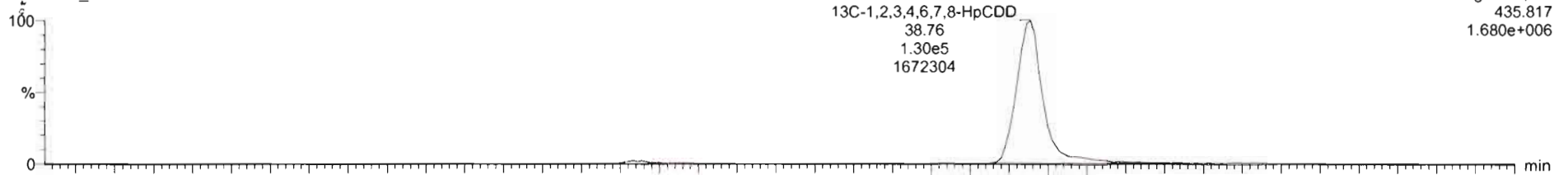
200623R2_1



F4:Voltage SIR,EI+
425.774
1.178e+006

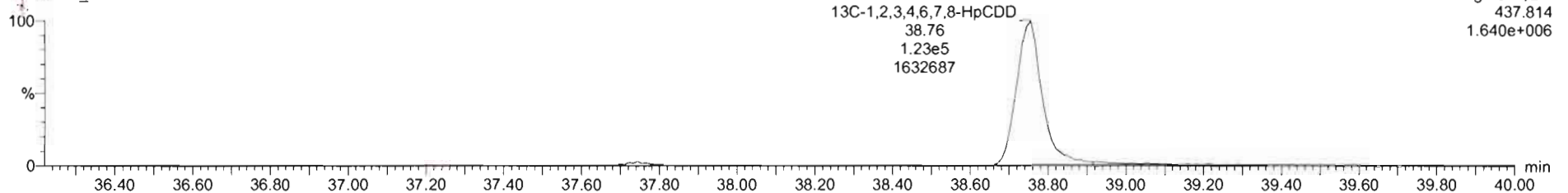
13C-1,2,3,4,6,7,8-HpCDD

200623R2_1

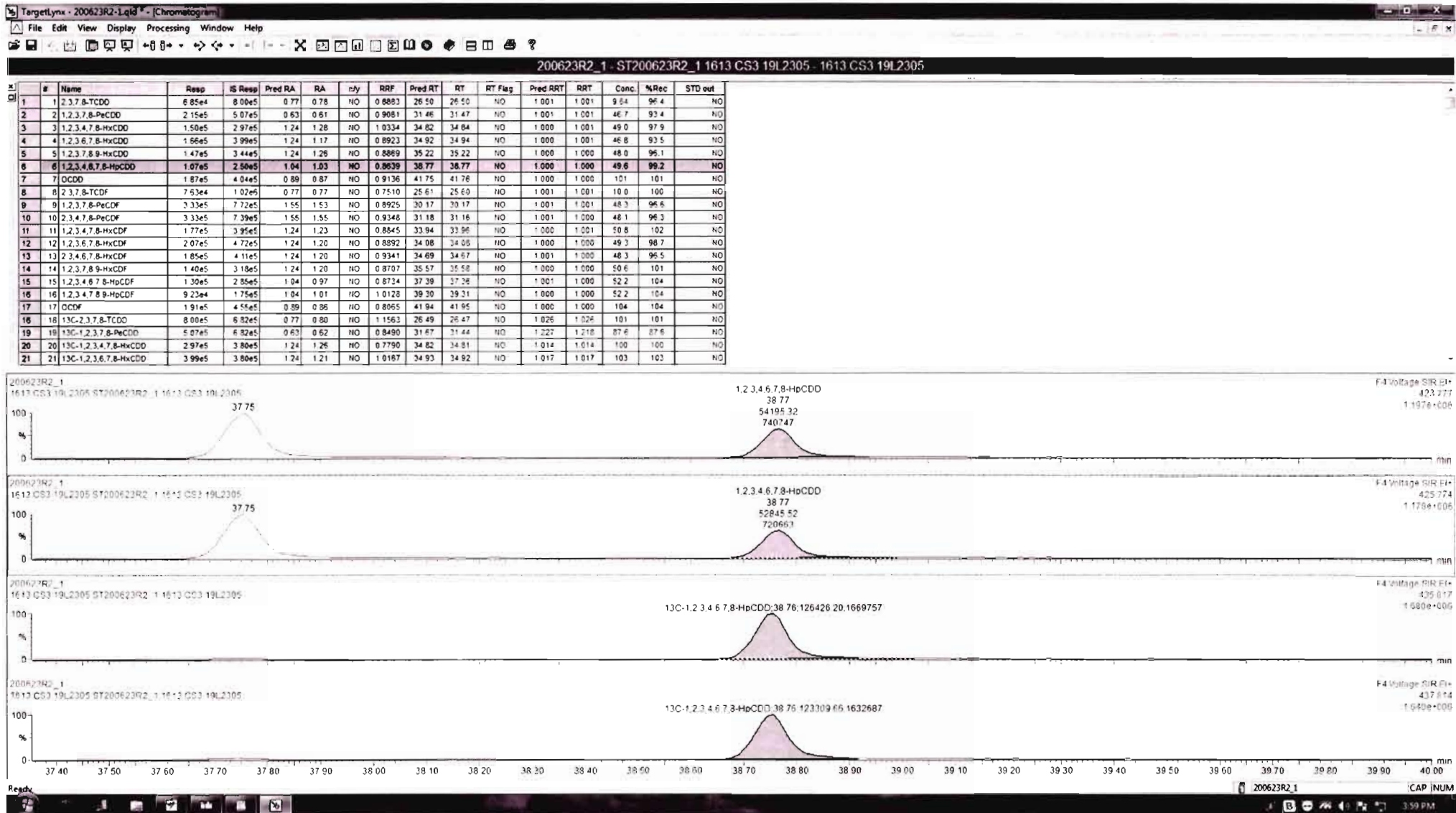


F4:Voltage SIR,EI+
435.817
1.680e+006

200623R2_1



F4:Voltage SIR,EI+
437.814
1.640e+006



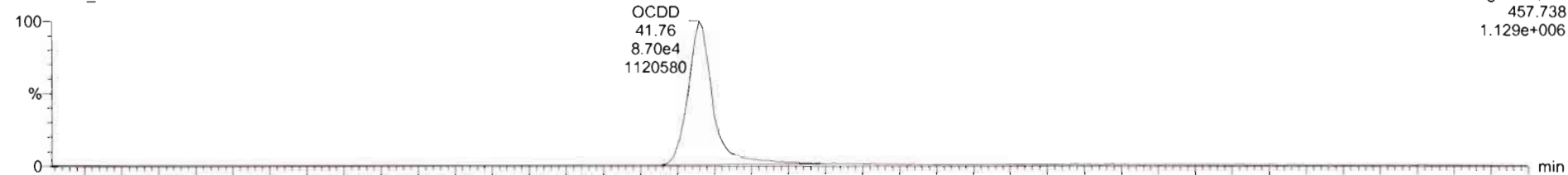
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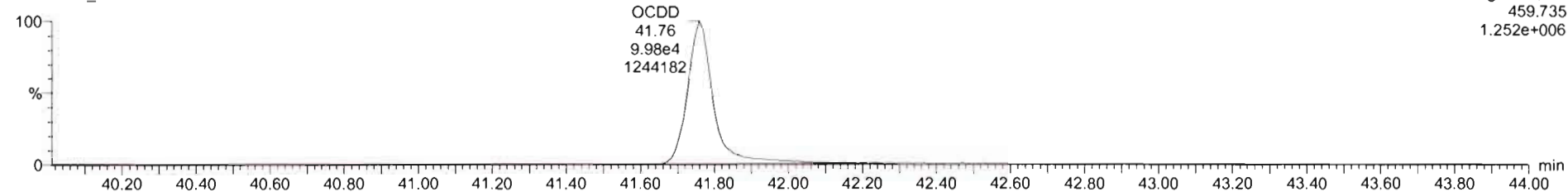
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OCDD

200623R2_1

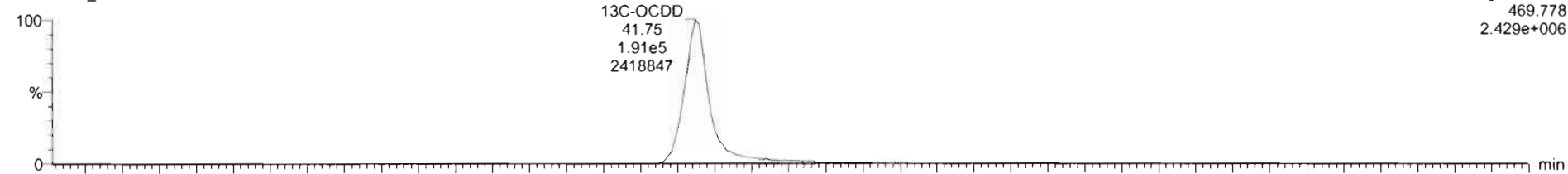


200623R2_1

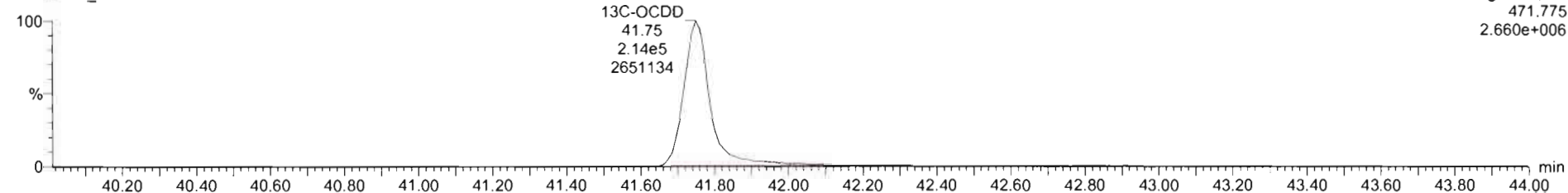


13C-OCDD

200623R2_1



200623R2_1

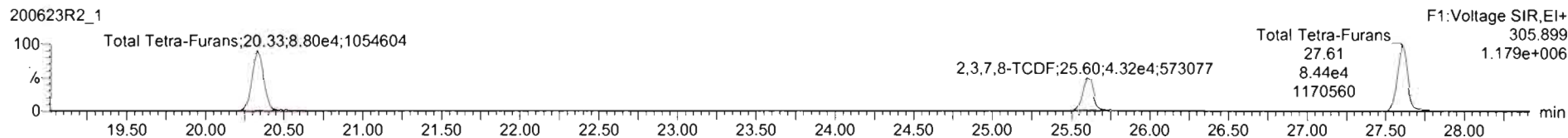
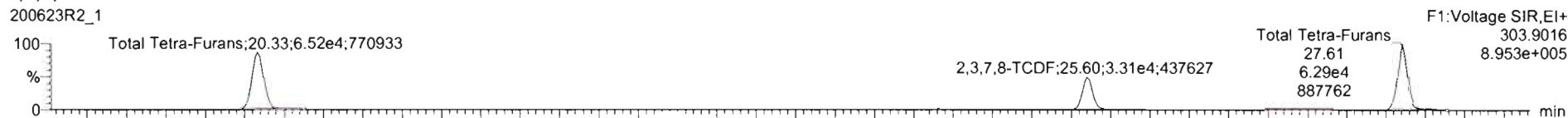


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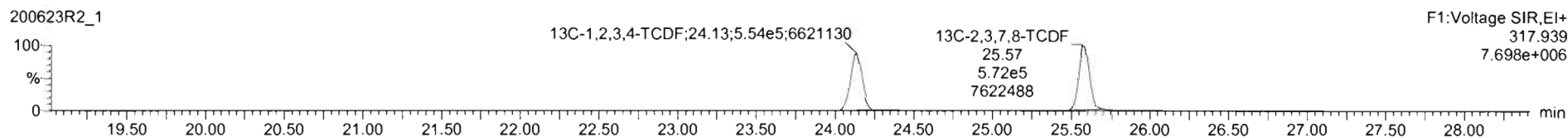
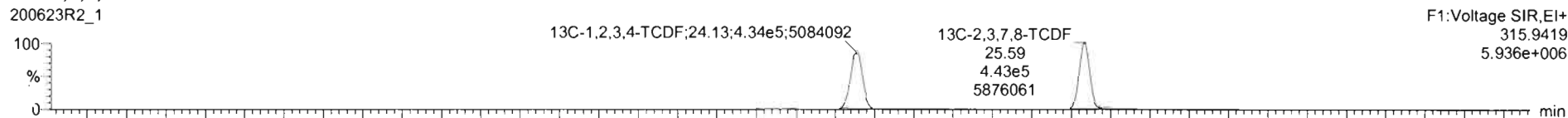
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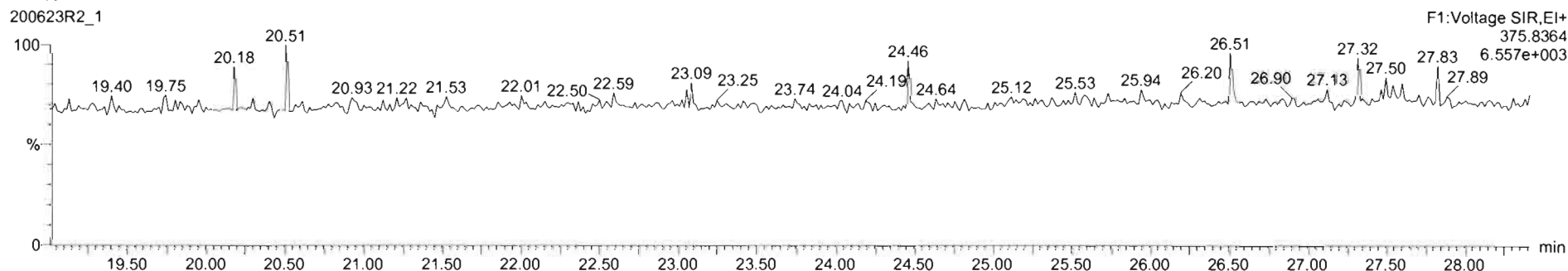
2,3,7,8-TCDF



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



DPE1



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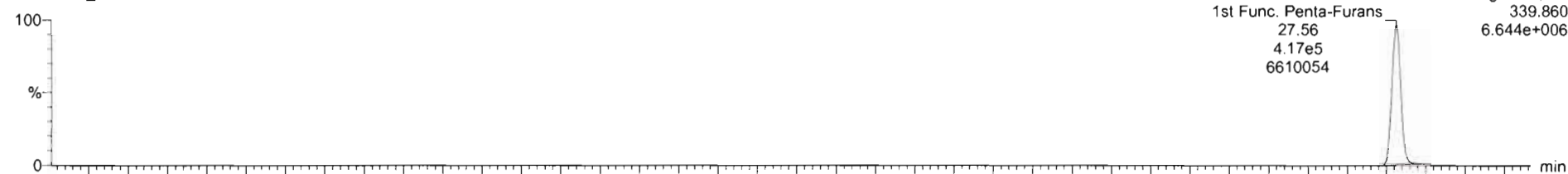
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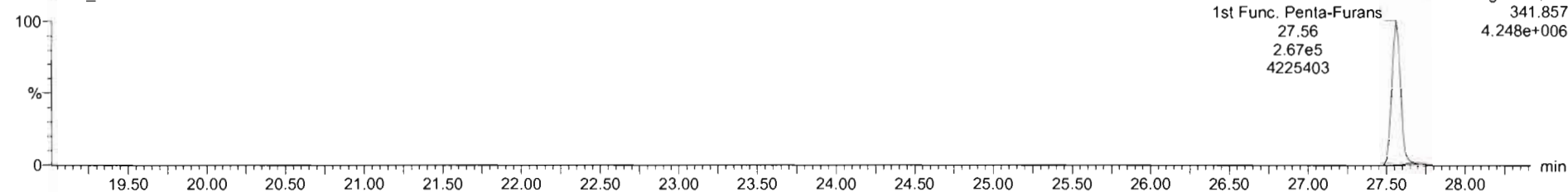
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1st Func. Penta-Furans

200623R2_1

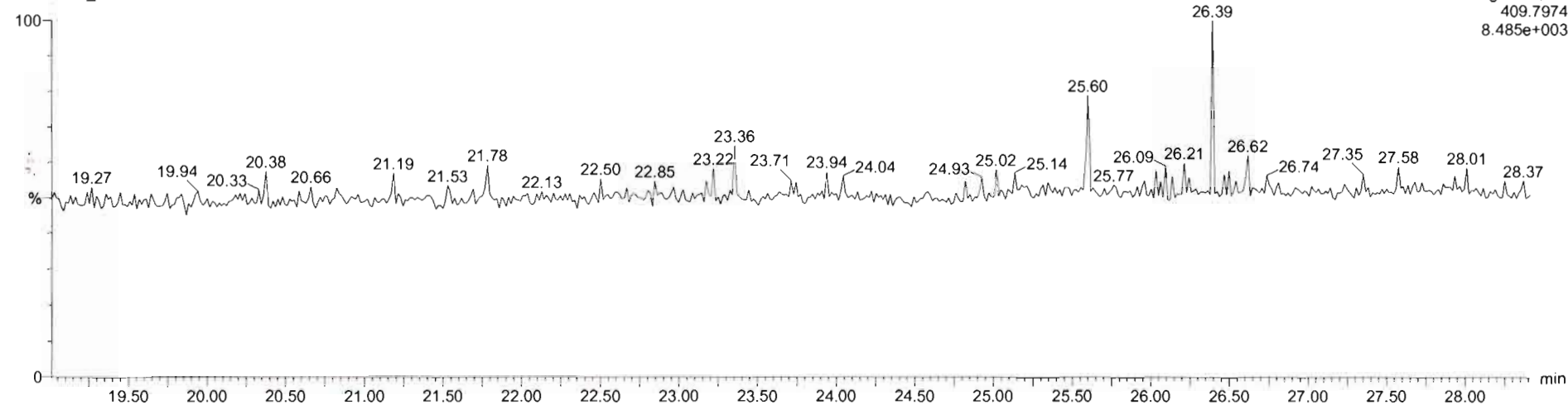


200623R2_1



DPE6

200623R2_1



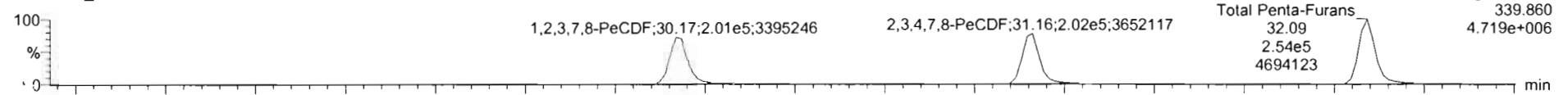
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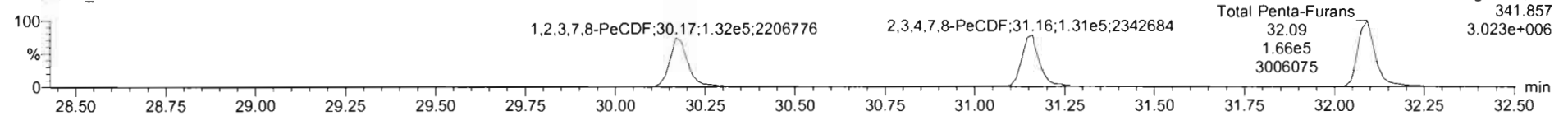
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1,2,3,7,8-PeCDF

200623R2_1

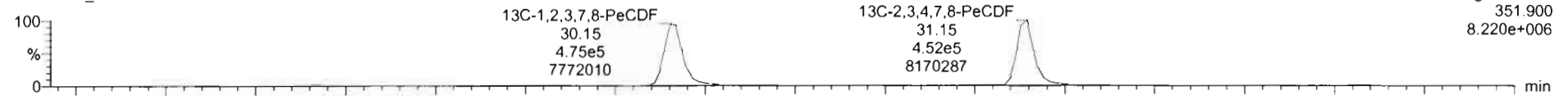


200623R2_1

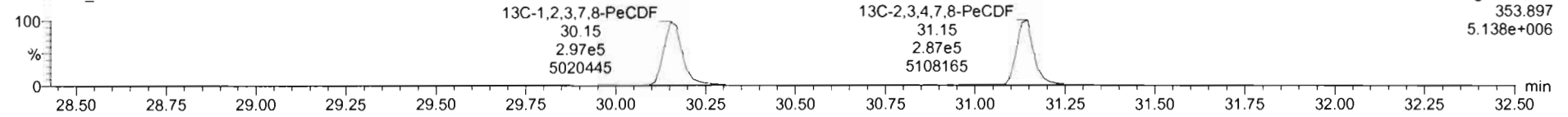


13C-1,2,3,7,8-PeCDF

200623R2_1

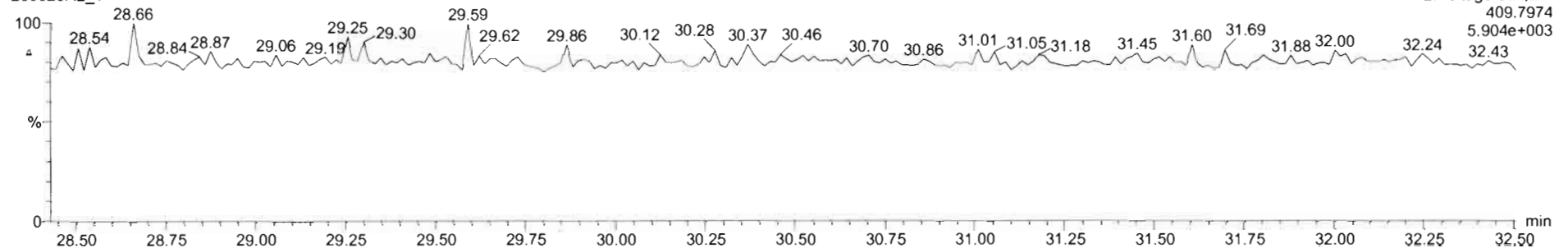


200623R2_1



DPE2

200623R2_1



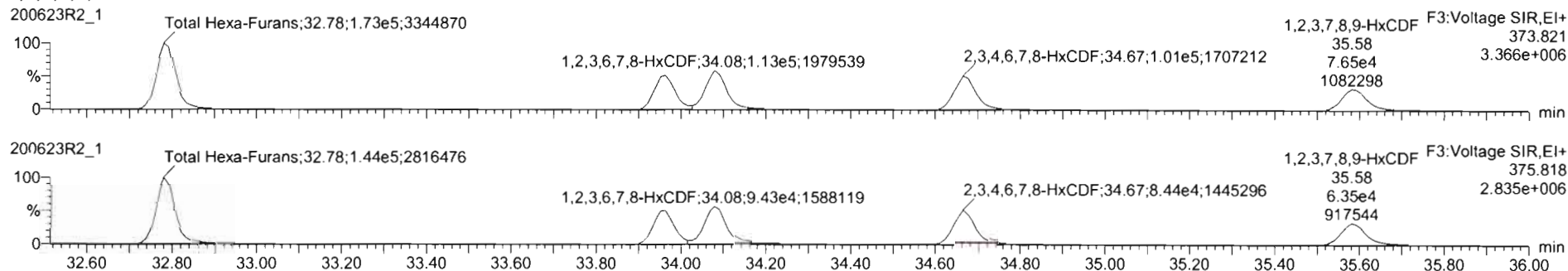
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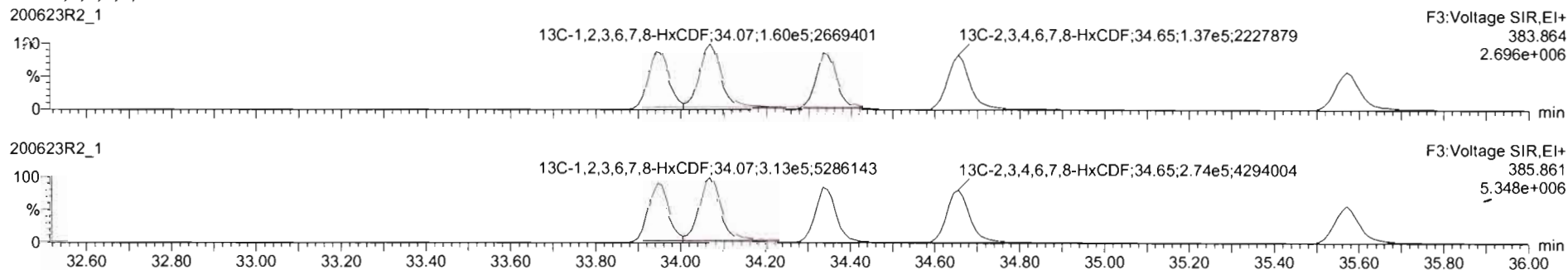
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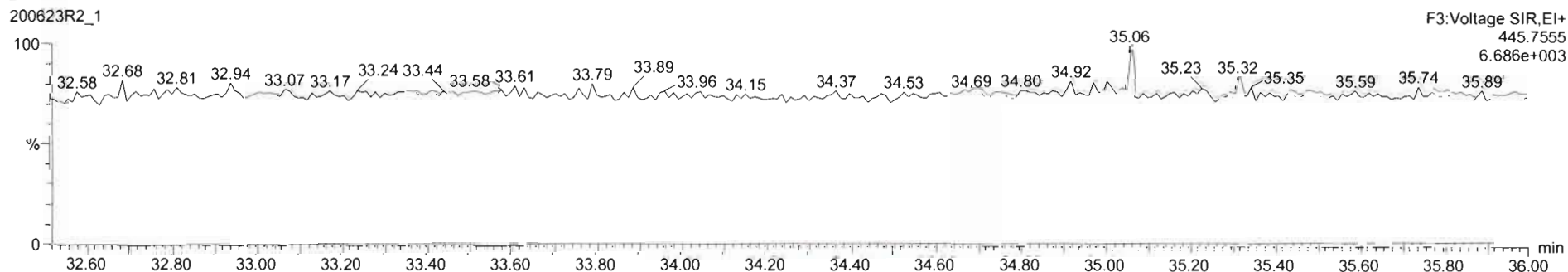
1,2,3,4,7,8-HxCDF



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



DPE3

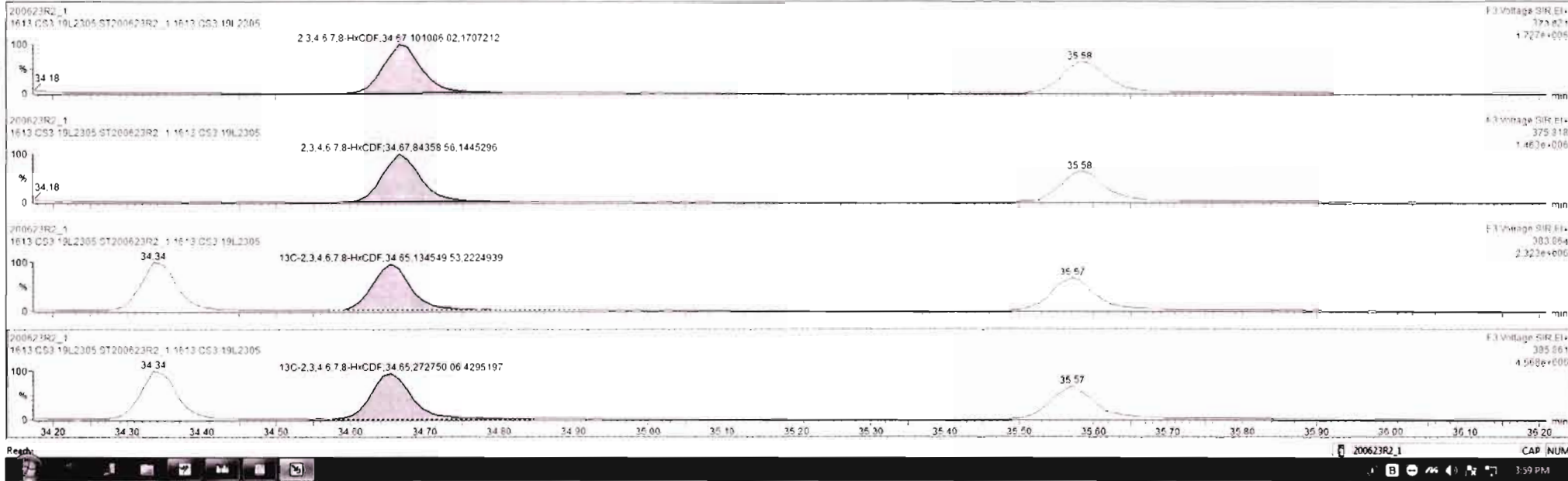


TargetLynx - 200623R2_1.qld - [Chromatogram]

File Edit View Display Processing Window Help

200623R2_1 - ST200623R2_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	6.85e4	8.00e5	0.77	0.75	NO	0.8883	26.50	26.50	NO	1.001	1.001	9.64	96.4	NO
2	1,2,3,7,8-PeCDD	2.15e5	5.07e5	0.63	0.61	NO	0.9081	31.46	31.47	NO	1.001	1.001	46.7	93.4	NO
3	1,2,3,4,7,8-HxCDD	1.50e5	2.97e5	1.24	1.28	NO	1.0334	34.82	34.84	NO	1.000	1.001	49.0	97.9	NO
4	1,2,3,6,7,8-HxCDD	1.56e5	3.99e5	1.24	1.17	NO	0.8923	34.92	34.94	NO	1.000	1.001	46.8	93.5	NO
5	1,2,3,7,8,9-HxCDD	1.47e5	3.44e5	1.24	1.26	NO	0.8869	35.22	35.22	NO	1.000	1.000	48.0	96.1	NO
6	1,2,3,4,6,7,8-HpCDD	1.07e5	2.50e5	1.04	1.03	NO	0.8639	38.77	38.77	NO	1.000	1.000	49.6	99.2	NO
7	OCDD	1.67e5	4.04e5	0.89	0.87	NO	0.9126	41.75	41.76	NO	1.000	1.000	101	101	NO
8	2,3,7,8-TCDF	7.63e4	1.07e5	0.77	0.77	NO	0.7510	25.61	25.60	NO	1.001	1.001	10.0	100	NO
9	1,2,3,7,8-PeCDF	3.33e5	7.72e5	1.55	1.53	NO	0.8925	30.17	30.17	NO	1.001	1.001	48.3	96.6	NO
10	2,3,4,7,8-PeCDF	3.33e5	7.39e5	1.55	1.55	NO	0.9348	31.18	31.18	NO	1.001	1.000	48.1	96.3	NO
11	1,2,3,4,7,8-HxCDF	1.77e5	3.95e5	1.24	1.23	NO	0.8845	33.94	33.96	NO	1.000	1.001	50.0	102	NO
12	1,2,3,6,7,8-HxCDF	2.07e5	4.72e5	1.24	1.20	NO	0.8892	34.08	34.08	NO	1.000	1.000	49.3	98.7	NO
13	2,3,4,6,7,8-HxCDF	1.85e5	4.07e5	1.24	1.20	NO	0.9341	34.69	34.67	NO	1.001	1.000	48.7	97.4	NO
14	1,3,7,8,9-HxCDF	1.40e5	3.18e5	1.24	1.20	HC	0.8707	35.57	35.58	NO	1.000	1.000	50.6	101	NO
15	1,2,3,4,6,7,8-HpCDF	1.30e5	2.85e5	1.04	0.97	NO	0.8734	37.39	37.36	NO	1.001	1.000	52.2	104	NO
16	1,2,3,4,7,8,9-HpCDF	9.23e4	1.75e5	1.04	1.01	NO	1.0128	39.30	39.31	NO	1.000	1.000	52.2	104	NO
17	OCDF	1.91e5	4.55e5	0.89	0.86	NO	0.8085	41.94	41.95	NO	1.000	1.000	104	104	NO
18	13C-2,3,7,8-TCDD	8.00e5	6.82e5	0.77	0.80	NO	1.1563	25.49	26.47	NO	1.029	1.029	101	101	NO
19	13C-1,2,3,7,8-PeCDD	5.07e5	6.82e5	0.63	0.62	NO	0.8490	31.67	31.44	NO	1.227	1.218	87.6	87.6	NO
20	13C-1,2,3,4,7,8-HxCDD	2.97e5	3.80e5	1.24	1.26	NO	0.7790	34.82	34.81	NO	1.014	1.014	100	100	NO
21	13C-1,2,3,6,7,8-HxCDD	3.99e5	3.80e5	1.24	1.21	NO	1.0167	34.93	34.92	NO	1.017	1.017	103	103	NO



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Printed: Tuesday, June 23, 2020 3:53:11 PM Pacific Daylight Time

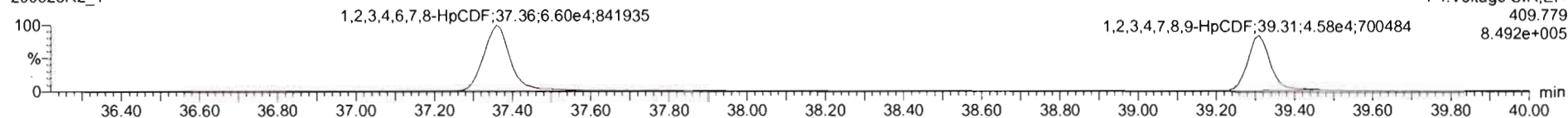
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1,2,3,4,6,7,8-HpCDF

200623R2_1

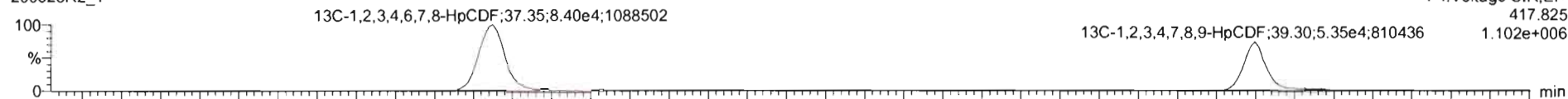


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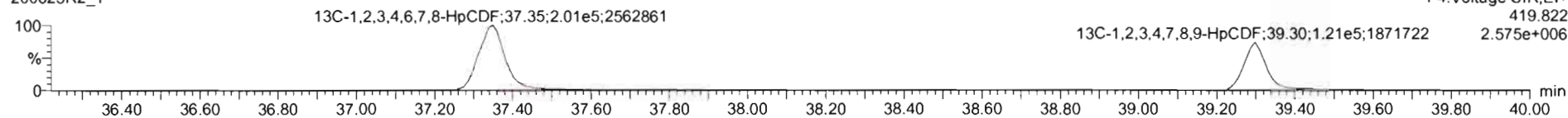


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200623R2_1

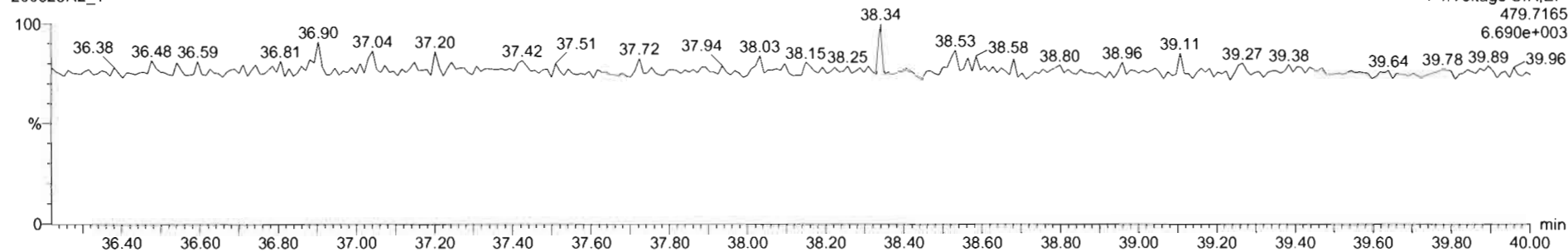


200623R2_1



D: E4

200623R2_1

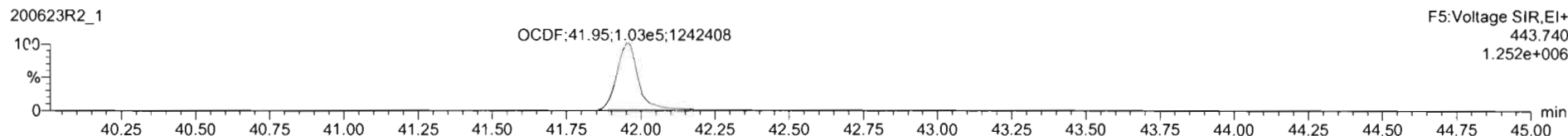
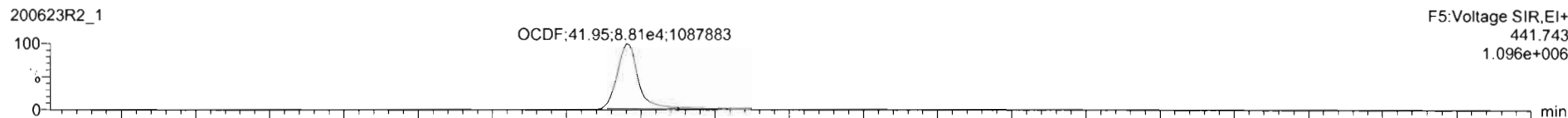


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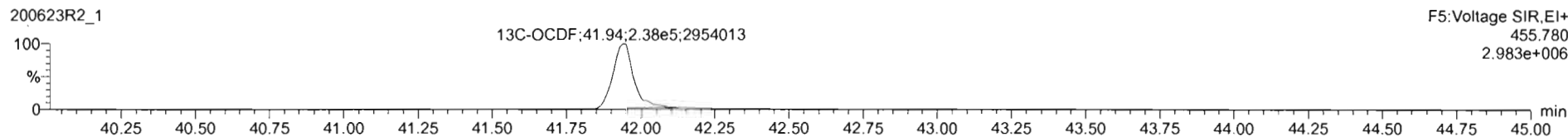
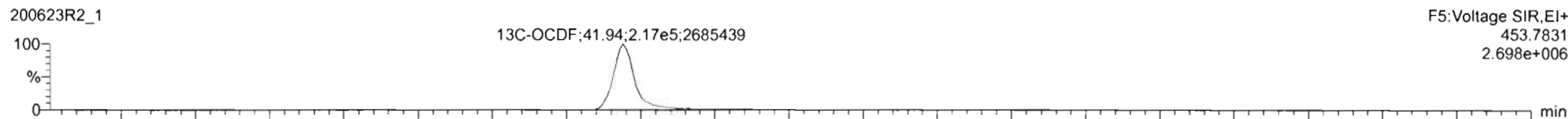
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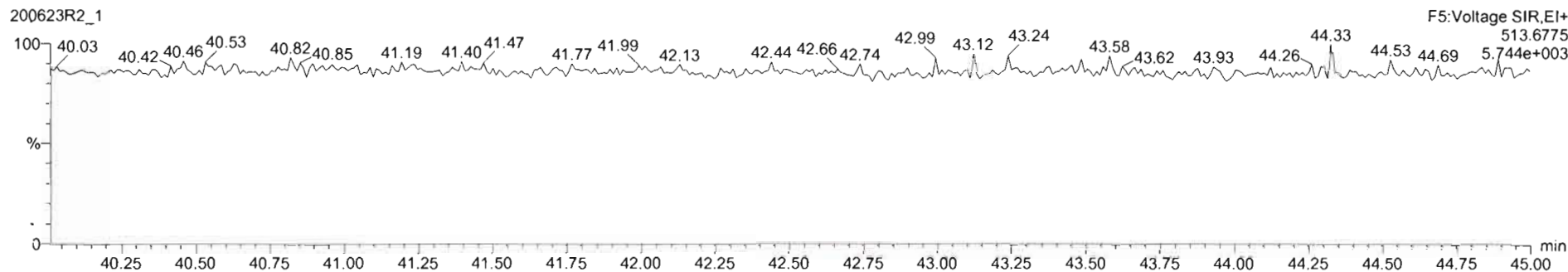
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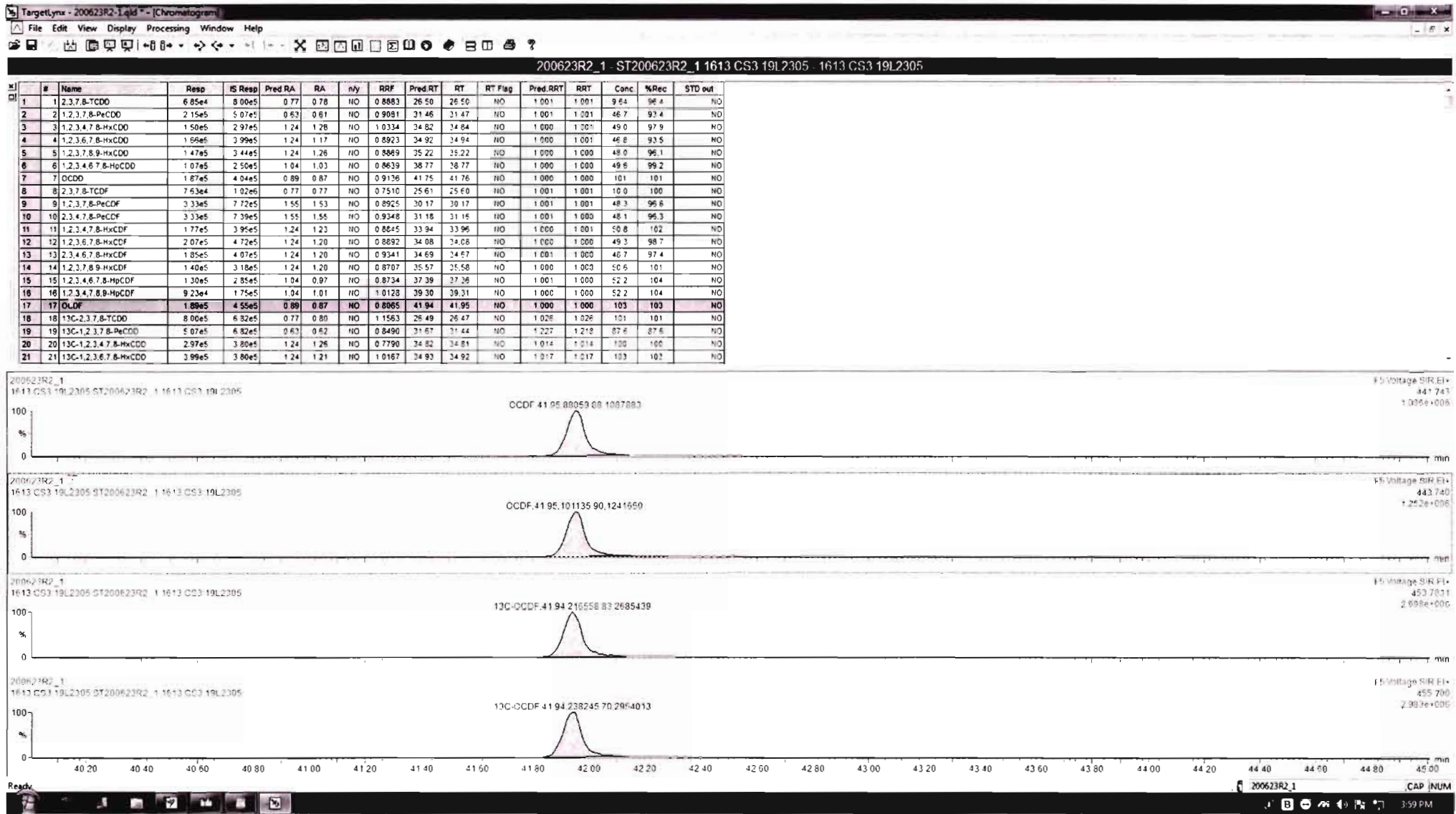


13C-OCDF



DPE5

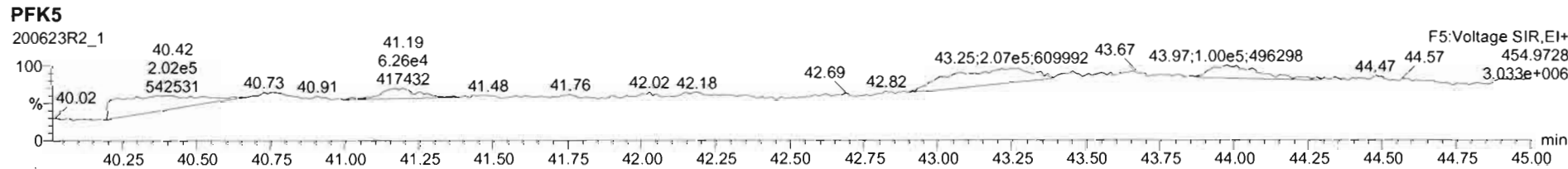
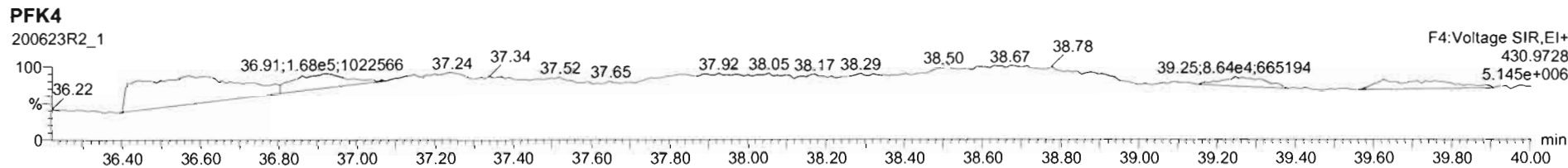
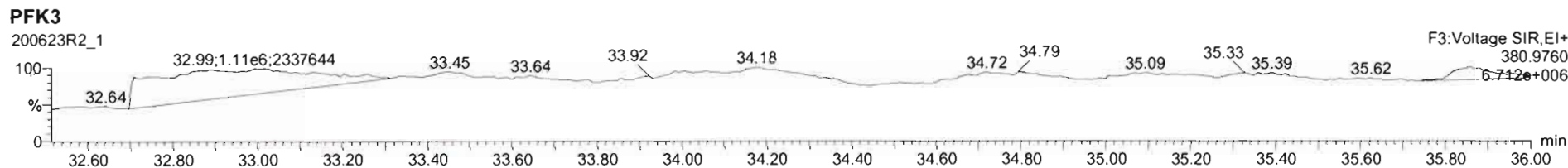
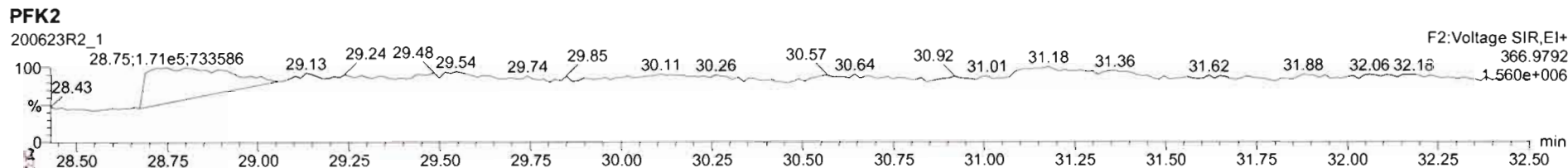
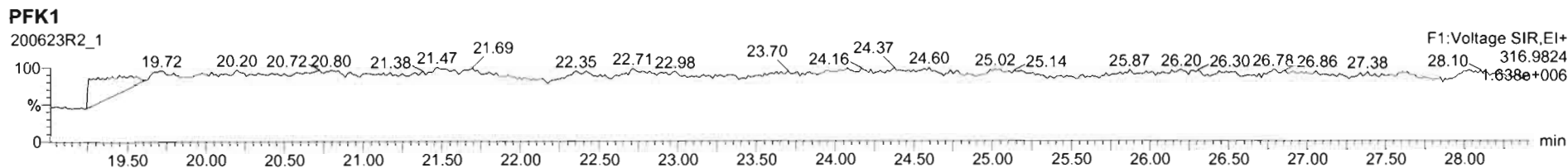




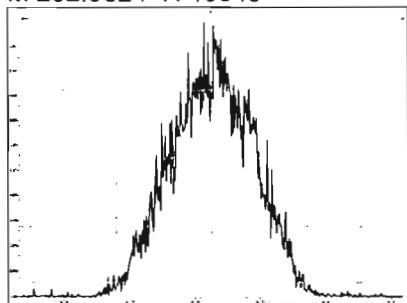
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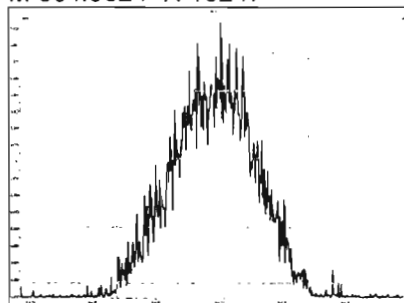
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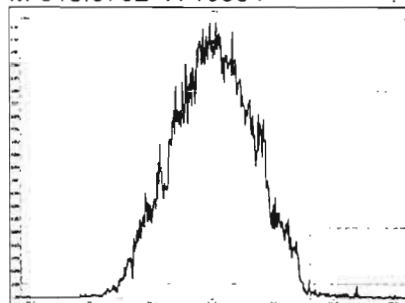
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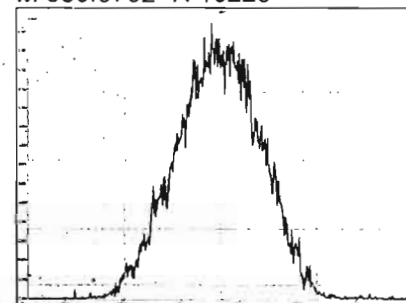
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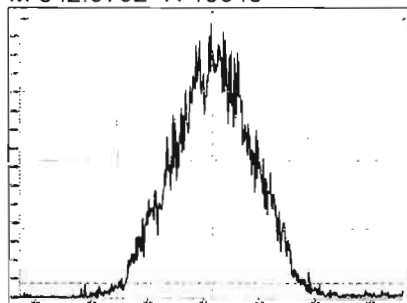
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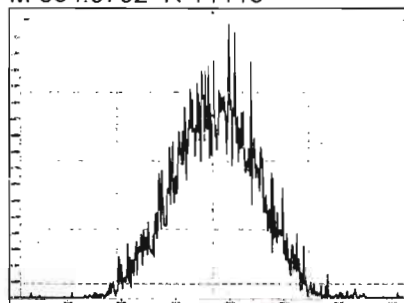
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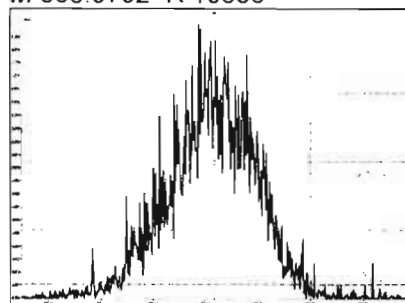
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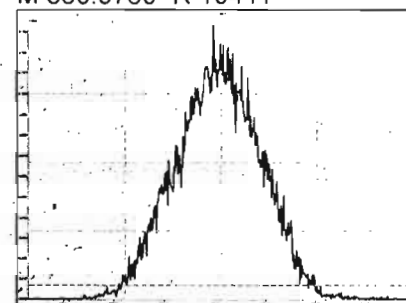
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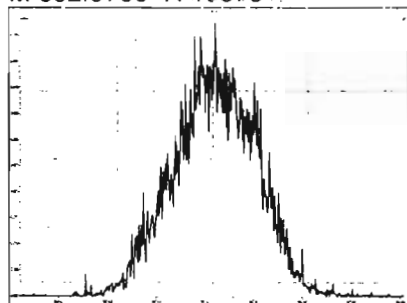
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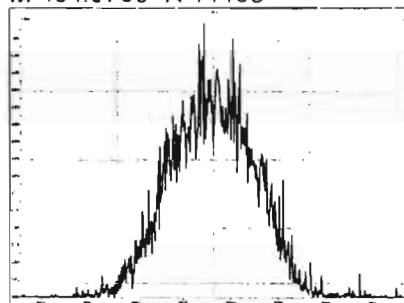
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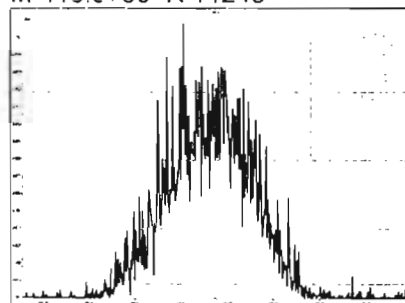
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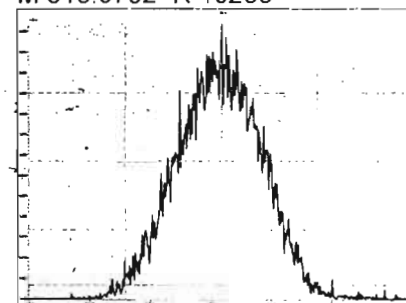
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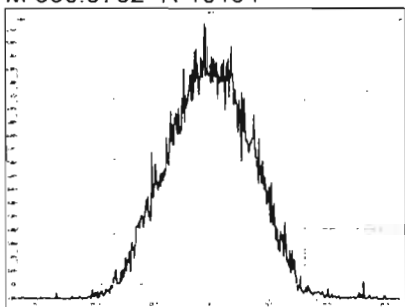


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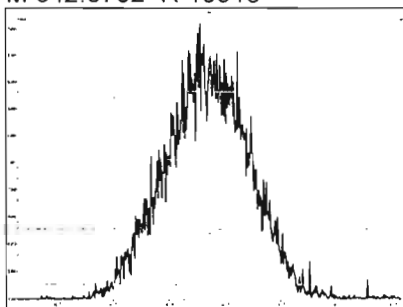


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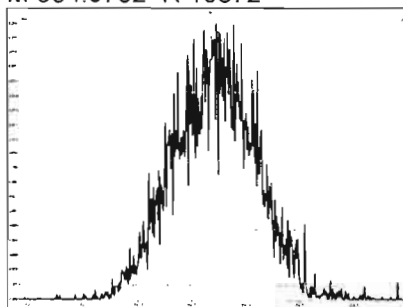
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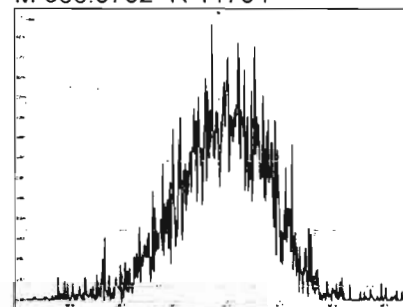
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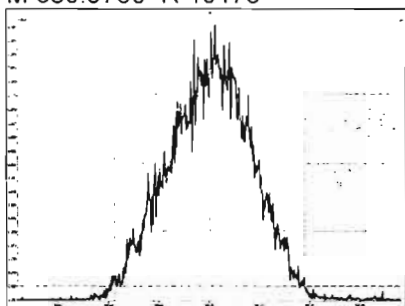
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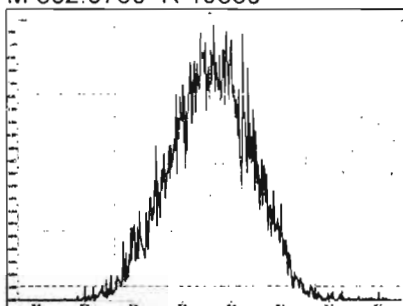
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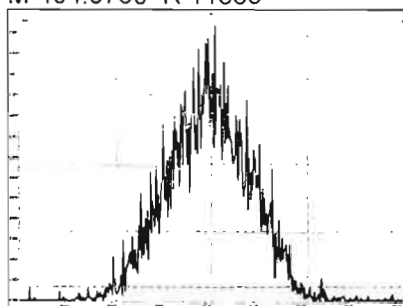
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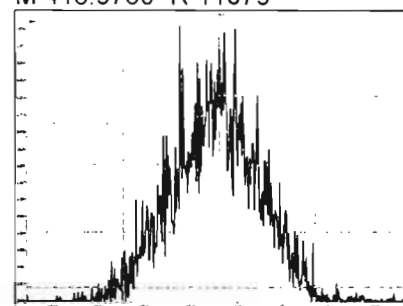
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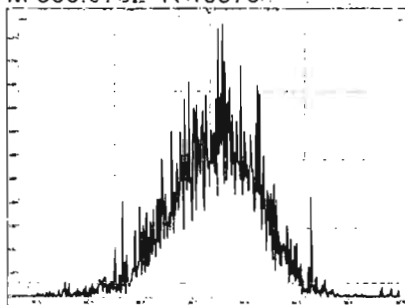
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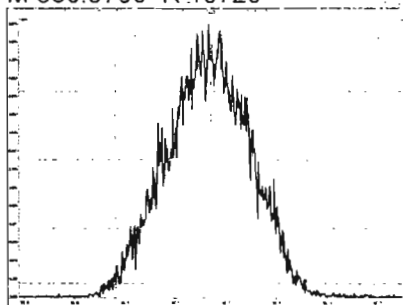
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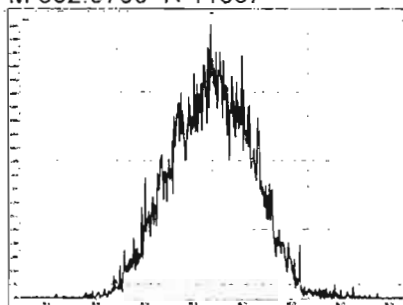
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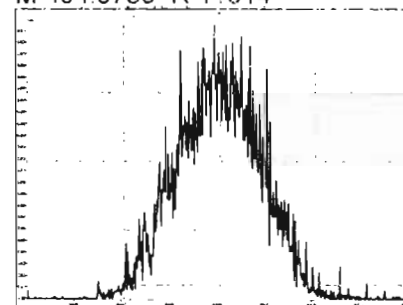
M 380.9760 R 10720



M 392.9760 R 11037

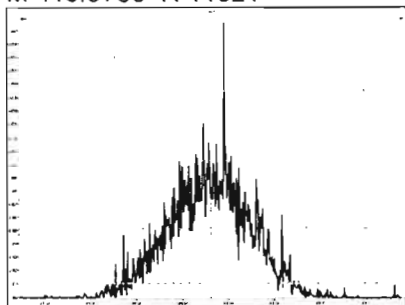


M 404.9760 R 11014

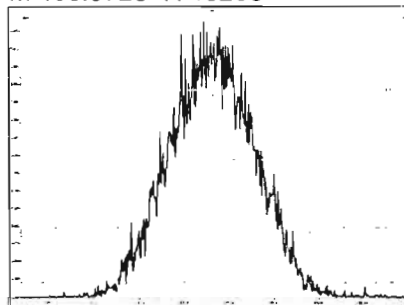


Printed: Wednesday, June 24, 2020 03:33:30 Pacific Daylight Time

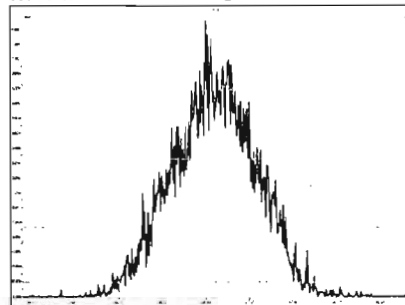
M 416.9760 R 11521



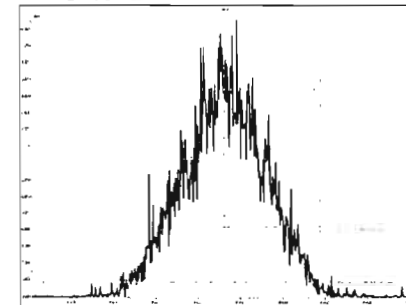
M 430.9728 R 10288



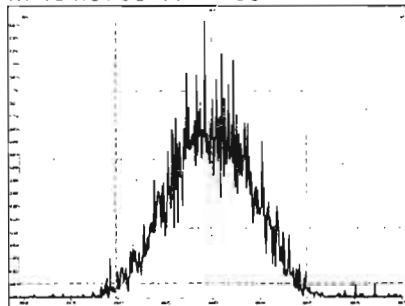
M 442.9728 R 10571



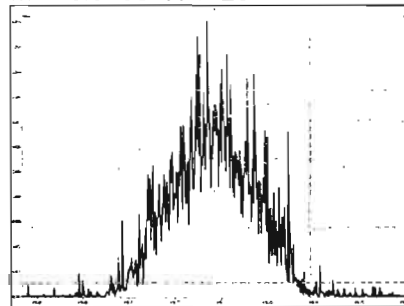
M 454.9728 R 10441



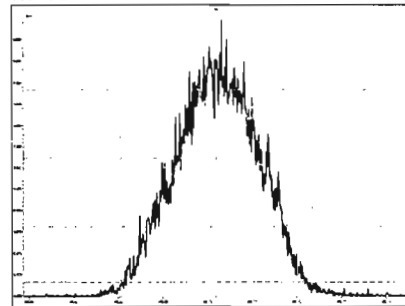
M 404.9760 R 11186



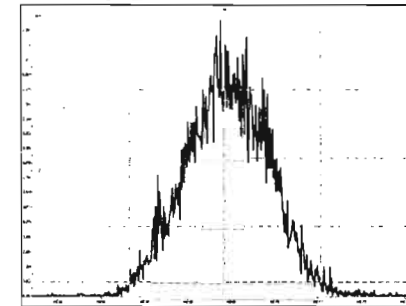
M 416.9760 R 11237



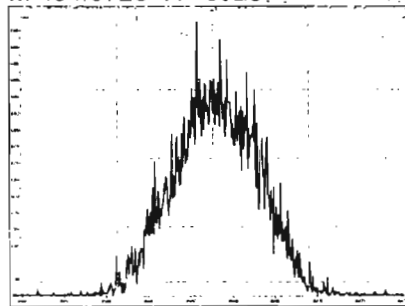
M 430.9728 R 10461



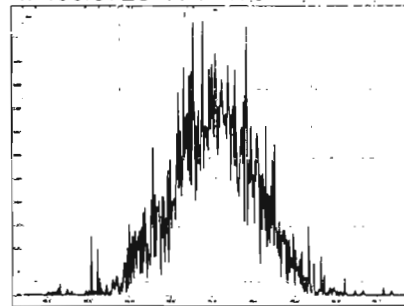
M 442.9728 R 10379



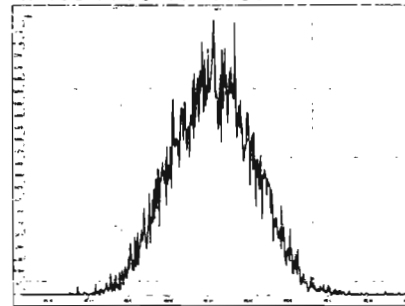
M 454.9728 R 10823



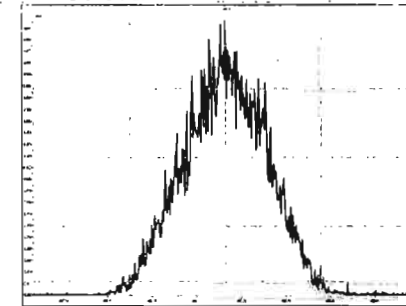
M 466.9728 R 11479



M 480.9696 R 10599

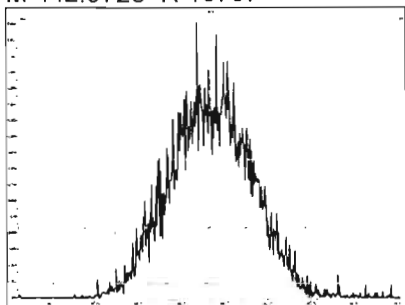


M 430.9728 R 10823

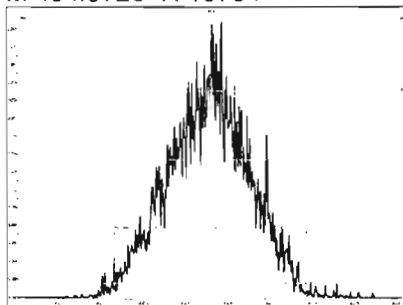


Printed: Wednesday, June 24, 2020 03:33:30 Pacific Daylight Time

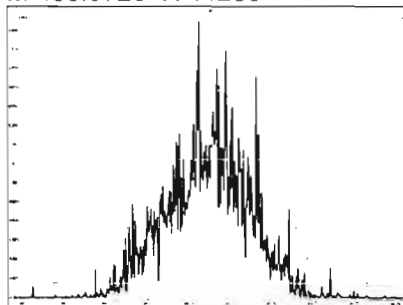
M 442.9728 R 10707



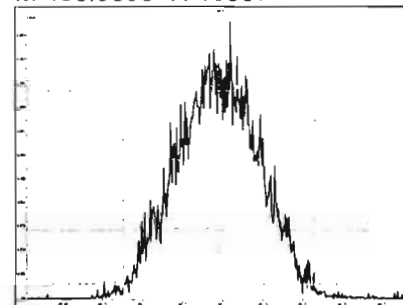
M 454.9728 R 10754



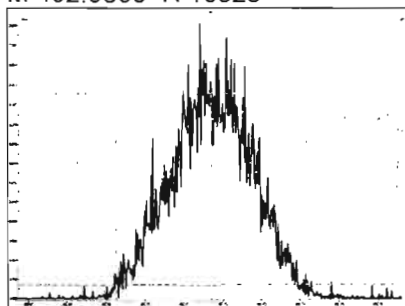
M 466.9728 R 11260



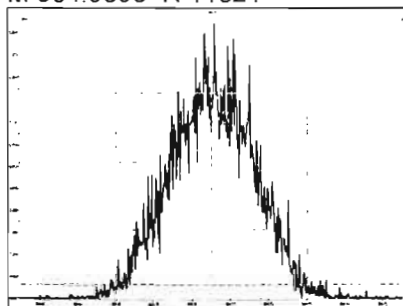
M 480.9696 R 10807



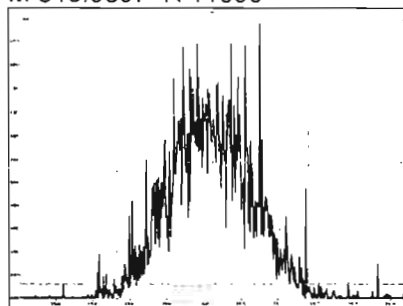
M 492.9696 R 10528



M 504.9696 R 11521



M 516.9697 R 11090



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200623B3-1

Reviewed By: C7 06/24/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox" value="NA"/>	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input type="checkbox" value="NA"/>	
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<u>GRB</u>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
- Samples within 12 hour clock?	<input checked="" type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<u>GRB</u>				

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-CPSM.qld

Last Altered: Wednesday, June 24, 2020 6:53:38 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 6:53:58 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R3_2, Date: 24-Jun-2020, Time: 04:19:50, ID: ST200623R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.46
2	2 1,2,8,9-TCDD (Last)	27.44
3	3 1,2,4,7,9-PeCDD (First)	29.24
4	4 1,2,3,8,9-PeCDD (Last)	31.83
5	5 1,2,4,6,7,9-HxCDD (First)	33.33
6	6 1,2,3,7,8,9-HxCDD (Last)	35.23
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.76
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.79
9	9 1,3,6,8-TCDF (First)	20.32
10	10 1,2,8,9-TCDF (Last)	27.59
11	11 1,3,4,6,8-PeCDF (First)	27.56
12	12 1,2,3,8,9-PeCDF (Last)	32.09
13	13 1,2,3,4,6,8-HxCDF (First)	32.78
14	14 1,2,3,7,8,9-HxCDF (Last)	35.59
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.38
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.33

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-2.qld

Last Altered: Wednesday, June 24, 2020 7:13:27 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:13:54 AM Pacific Daylight Time

GBB 06/24/2020

C1 06/24/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200623R3_2, Date: 24-Jun-2020, Time: 04:19:50, ID: ST200623R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	6.03e4	6.64e5	0.77	NO	0.888	26.50	26.48	NO	1.001	1.001	10.230	102	NO
2	2 1,2,3,7,8-PeCDD	2.68e5	6.13e5	0.61	NO	0.908	31.46	31.45	NO	1.001	1.001	48.196	96.4	NO
3	3 1,2,3,4,7,8-HxCDD	1.94e5	3.89e5	1.23	NO	1.03	34.84	34.84	NO	1.000	1.000	48.173	96.3	NO
4	4 1,2,3,6,7,8-HxCDD	2.15e5	4.88e5	1.24	NO	0.892	34.93	34.94	NO	1.000	1.000	49.308	98.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.85e5	4.28e5	1.22	NO	0.887	35.22	35.23	NO	1.000	1.001	48.776	97.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.29e5	2.95e5	1.03	NO	0.864	38.79	38.79	NO	1.000	1.000	50.644	101	NO
7	7 OCDD	2.32e5	5.12e5	0.91	NO	0.914	41.79	41.80	NO	1.000	1.000	99.373	99.4	NO
8	8 2,3,7,8-TCDF	6.78e4	8.75e5	0.76	NO	0.751	25.60	25.60	NO	1.001	1.001	10.320	103	NO
9	9 1,2,3,7,8-PeCDF	3.98e5	8.85e5	1.54	NO	0.893	30.17	30.17	NO	1.001	1.001	50.364	101	NO
10	10 2,3,4,7,8-PeCDF	3.97e5	8.56e5	1.54	NO	0.935	31.16	31.15	NO	1.001	1.000	49.685	99.4	NO
11	11 1,2,3,4,7,8-HxCDF	2.33e5	5.03e5	1.20	NO	0.884	33.94	33.96	NO	1.000	1.001	52.421	105	NO
12	12 1,2,3,6,7,8-HxCDF	2.73e5	6.05e5	1.15	NO	0.889	34.08	34.08	NO	1.000	1.000	50.737	101	NO
13	13 2,3,4,6,7,8-HxCDF	2.44e5	5.15e5	1.21	NO	0.934	34.69	34.68	NO	1.001	1.001	50.692	101	NO
14	14 1,2,3,7,8,9-HxCDF	1.83e5	4.09e5	1.21	NO	0.871	35.58	35.59	NO	1.000	1.000	51.443	103	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.73e5	3.74e5	0.98	NO	0.873	37.40	37.38	NO	1.001	1.001	53.069	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.17e5	2.21e5	0.99	NO	1.01	39.32	39.33	NO	1.000	1.000	52.220	104	NO
17	17 OCDF	2.38e5	6.07e5	0.88	NO	0.806	41.98	41.99	NO	1.000	1.000	97.454	97.5	NO
18	18 13C-2,3,7,8-TCDD	6.64e5	5.57e5	0.79	NO	1.16	26.49	26.47	NO	1.026	1.026	103.07	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.13e5	5.57e5	0.62	NO	0.849	31.67	31.43	NO	1.227	1.218	129.62	130	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.89e5	5.17e5	1.28	NO	0.779	34.83	34.83	NO	1.014	1.014	96.627	96.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.88e5	5.17e5	1.25	NO	1.02	34.94	34.93	NO	1.017	1.017	93.020	93.0	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.28e5	5.17e5	1.25	NO	0.903	35.21	35.21	NO	1.025	1.025	91.746	91.7	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.95e5	5.17e5	1.03	NO	0.689	38.74	38.78	NO	1.128	1.129	82.888	82.9	NO
24	24 13C-OCDD	5.12e5	5.17e5	0.93	NO	0.652	41.76	41.79	NO	1.216	1.217	152.05	76.0	NO
25	25 13C-2,3,7,8-TCDF	8.75e5	8.21e5	0.76	NO	1.06	25.53	25.57	NO	0.989	0.991	100.66	101	NO
26	26 13C-1,2,3,7,8-PeCDF	8.85e5	8.21e5	1.59	NO	0.838	30.06	30.15	NO	1.165	1.168	128.72	129	NO
27	27 13C-2,3,4,7,8-PeCDF	8.56e5	8.21e5	1.58	NO	0.817	31.01	31.13	NO	1.202	1.206	127.71	128	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.03e5	5.17e5	0.51	NO	1.01	33.96	33.94	NO	0.989	0.988	96.672	96.7	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.05e5	5.17e5	0.50	NO	1.17	34.08	34.07	NO	0.992	0.992	100.30	100	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.15e5	5.17e5	0.53	NO	1.02	34.66	34.65	NO	1.009	1.009	97.581	97.6	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.09e5	5.17e5	0.50	NO	0.860	35.56	35.58	NO	1.035	1.036	92.117	92.1	NO

Dataset: U:\VG12.PRO\Results\200623R3\200623R3-2.qld

Last Altered: Wednesday, June 24, 2020 7:13:27 AM Pacific Daylight Time

Printed: Wednesday, June 24, 2020 7:13:54 AM Pacific Daylight Time

Name: 200623R3_2, Date: 24-Jun-2020, Time: 04:19:50, ID: ST200623R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.74e5	5.17e5	0.44	NO	0.774	37.31	37.36	NO	1.086	1.088	93.398	93.4	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.21e5	5.17e5	0.44	NO	0.521	39.34	39.32	NO	1.145	1.145	81.965	82.0	NO
34	34 13C-OCDF	6.07e5	5.17e5	0.89	NO	0.746	41.93	41.98	NO	1.221	1.222	157.51	78.8	NO
35	35 37Cl-2,3,7,8-TCDD	6.15e4	5.57e5			1.04	26.52	26.48	NO	1.028	1.026	10.648	106	NO
36	36 13C-1,2,3,4-TCDD	5.57e5	5.57e5	0.79	NO	1.00	25.89	25.81	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.21e5	8.21e5	0.79	NO	1.00	24.36	24.12	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.17e5	5.17e5	0.51	NO	1.00	34.42	34.35	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 08:19:04 Pacific Daylight Time
Printed: Wednesday, June 24, 2020 08:19:17 Pacific Daylight Time

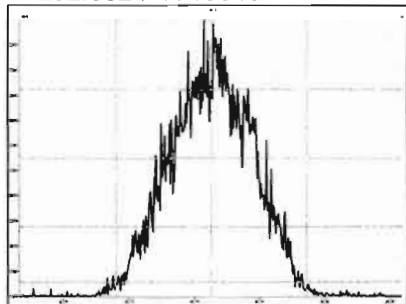
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

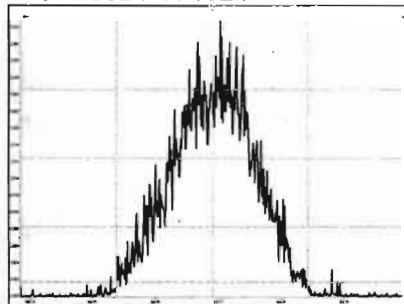
	Name	ID	Acq.Date	Acq.Time
1	200623R3_1	SOLVENT BLANK	24-Jun-20	03:33:36
2	200623R3_2	ST200623R3_1 1613 CS3 19L2305	24-Jun-20	04:19:50
3	200623R3_3	SOLVENT BLANK	24-Jun-20	05:06:05
4	200623R3_4	2001035-12 PDI-093SC-B-02-05-200508 17.67	24-Jun-20	05:52:20
5	200623R3_5	2001035-13 PDI-093SC-B-05-6.6-200508 15.49	24-Jun-20	06:38:33
6	200623R3_6	2001035-13 PDI-093SC-B-05-6.6-200508 15.49	24-Jun-20	07:24:49

Printed: Wednesday, June 24, 2020 03:33:30 Pacific Daylight Time

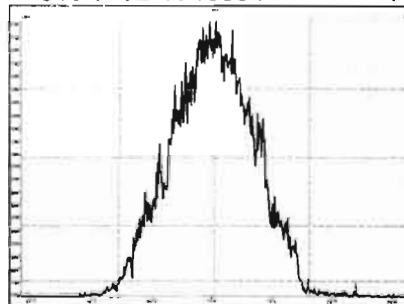
M 292.9824 R 10846



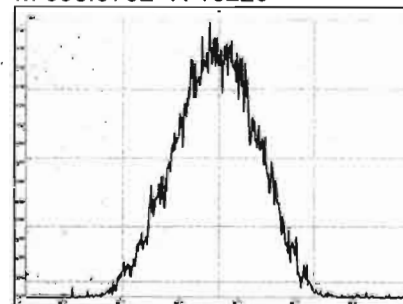
M 304.9824 R 10247



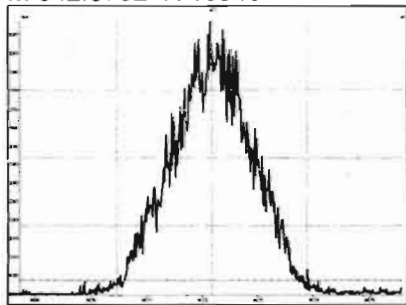
M 318.9792 R 10504



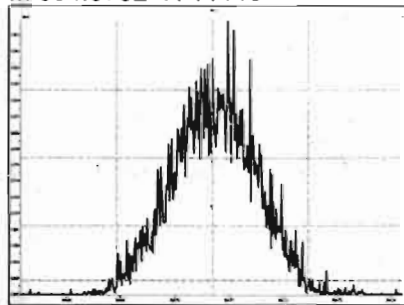
M 330.9792 R 10229



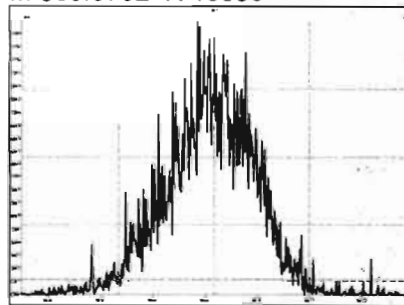
M 342.9792 R 10548



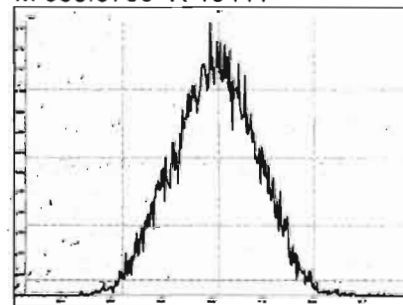
M 354.9792 R 11115



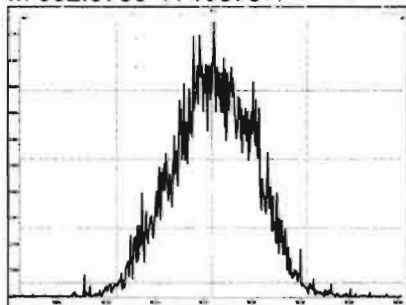
M 366.9792 R 10636



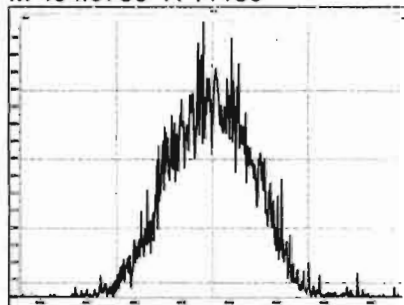
M 380.9760 R 10441



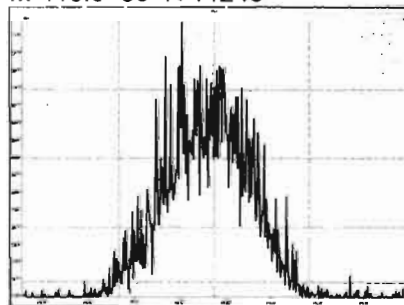
M 392.9760 R 10578



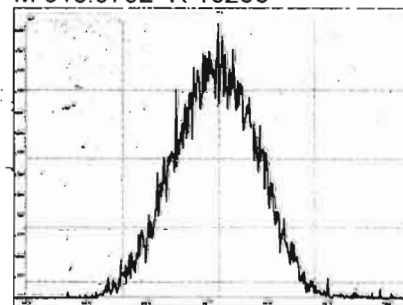
M 404.9760 R 11168



M 416.9760 R 11248

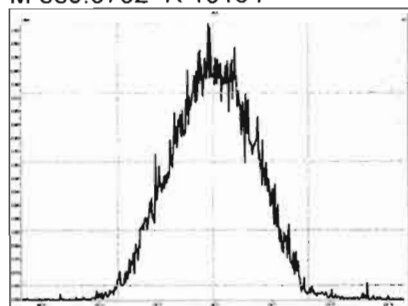


M 318.9792 R 10288

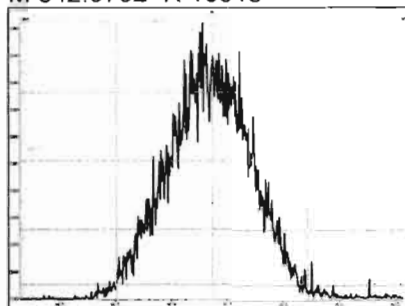


Printed: Wednesday, June 24, 2020 03:33:30 Pacific Daylight Time

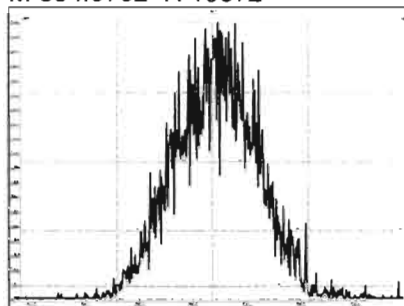
M 330.9792 R 10164



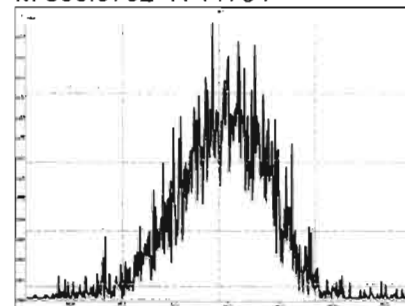
M 342.9792 R 10513



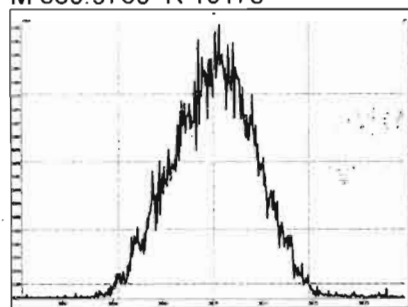
M 354.9792 R 10872



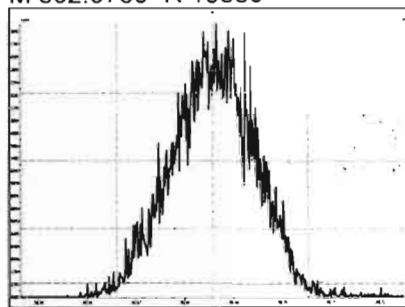
M 366.9792 R 11794



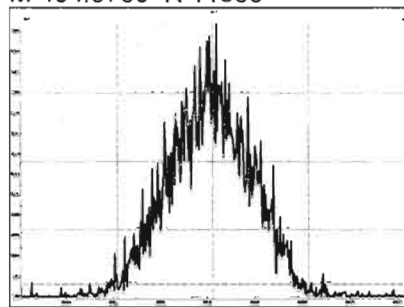
M 380.9760 R 10173



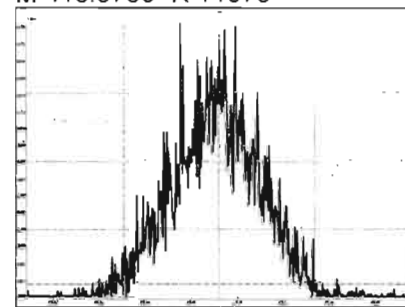
M 392.9760 R 10330



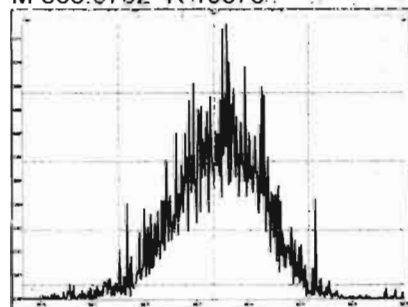
M 404.9760 R 11365



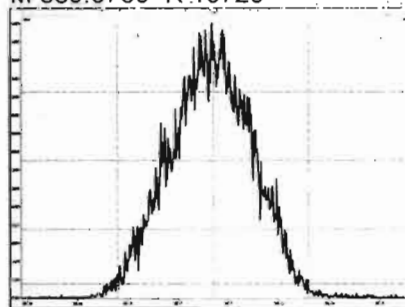
M 416.9760 R 11079



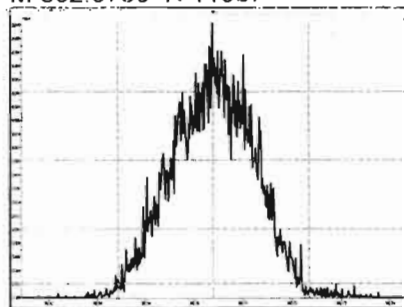
M 366.9792 R 10576



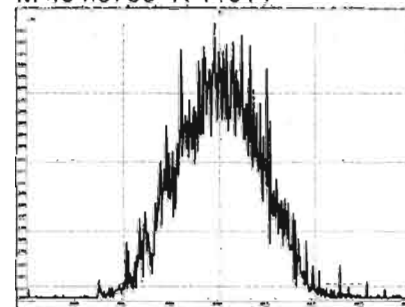
M 380.9760 R 10720



M 392.9760 R 11037

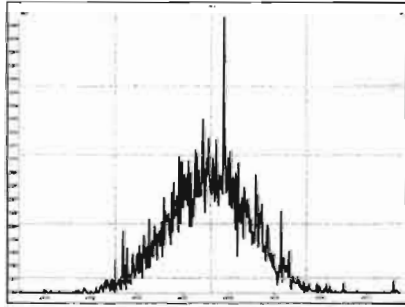


M 404.9760 R 11014

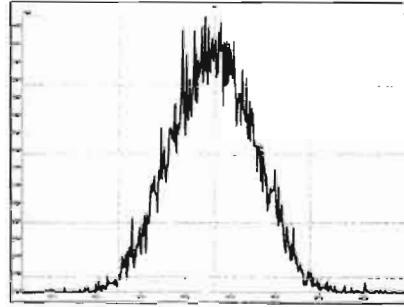


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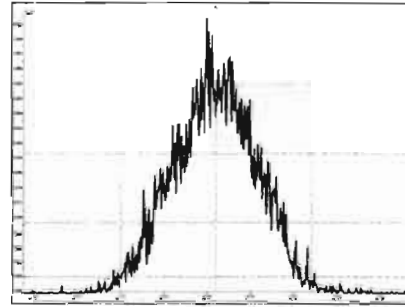
M 416.9760 R 11521



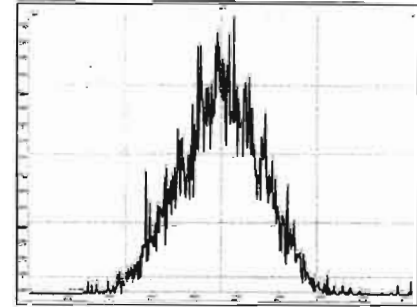
M 430.9728 R 10288



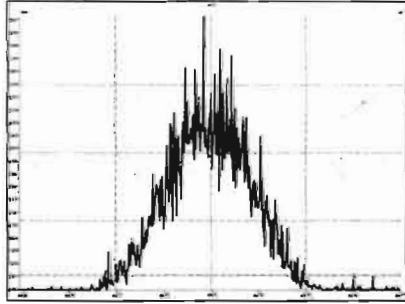
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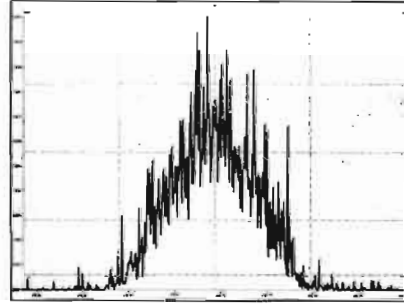
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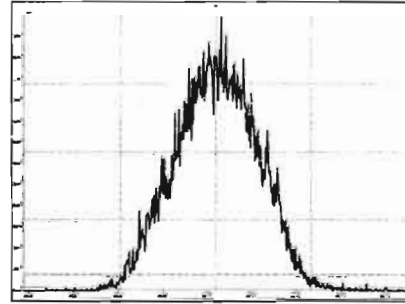
M 404.9760 R 11186



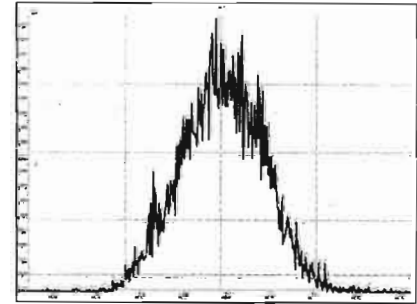
M 416.9760 R 11237



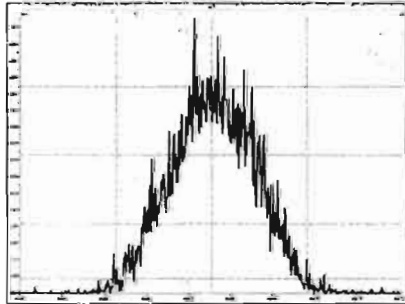
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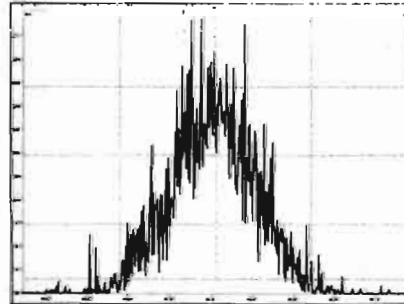
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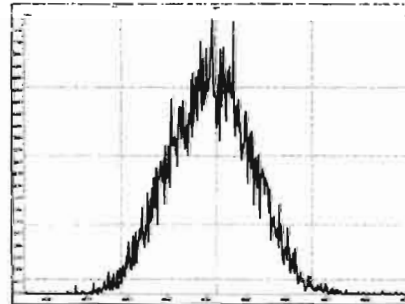
M 454.9728 R 10823



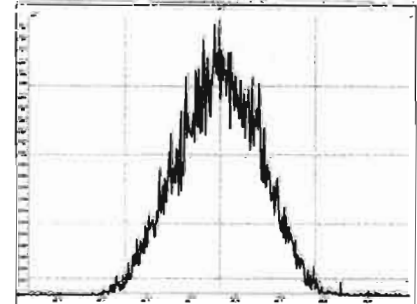
M 466.9728 R 11479



M 480.9696 R 10599

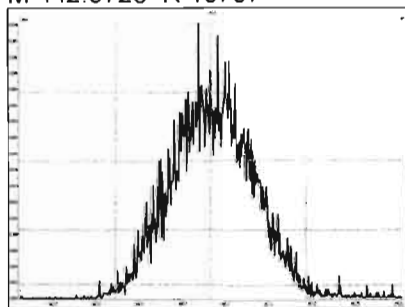


M 430.9728 R 10823

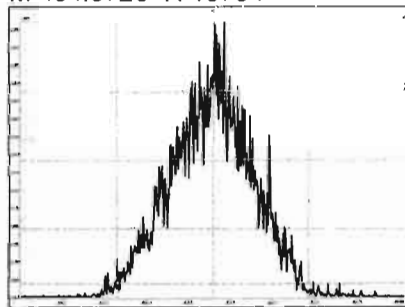


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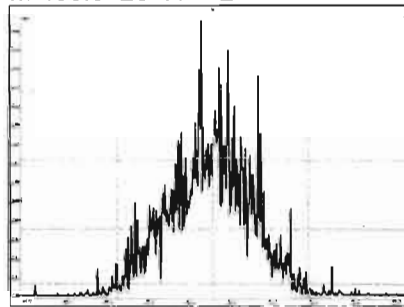
M 442.9728 R 10707



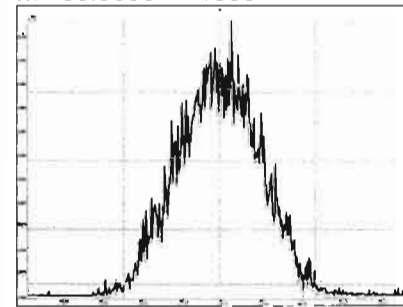
M 454.9728 R 10754



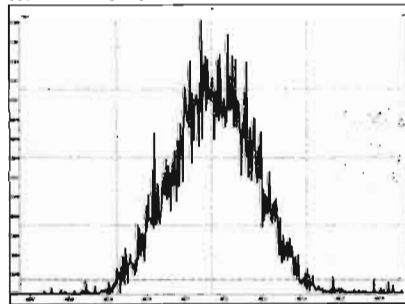
M 466.9728 R 11260



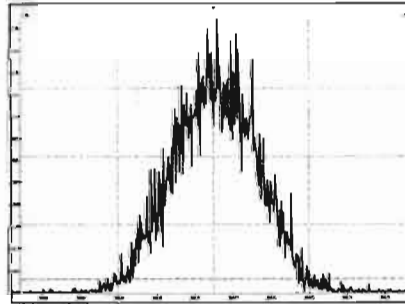
M 480.9696 R 10807



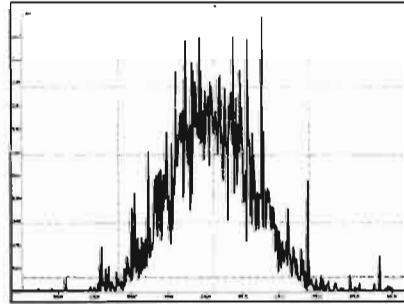
M 492.9696 R 10528



M 504.9696 R 11521



M 516.9697 R 11090



Dataset: U:\VG12.PRO\Results\200623R3\200623R3-CPSM.qld

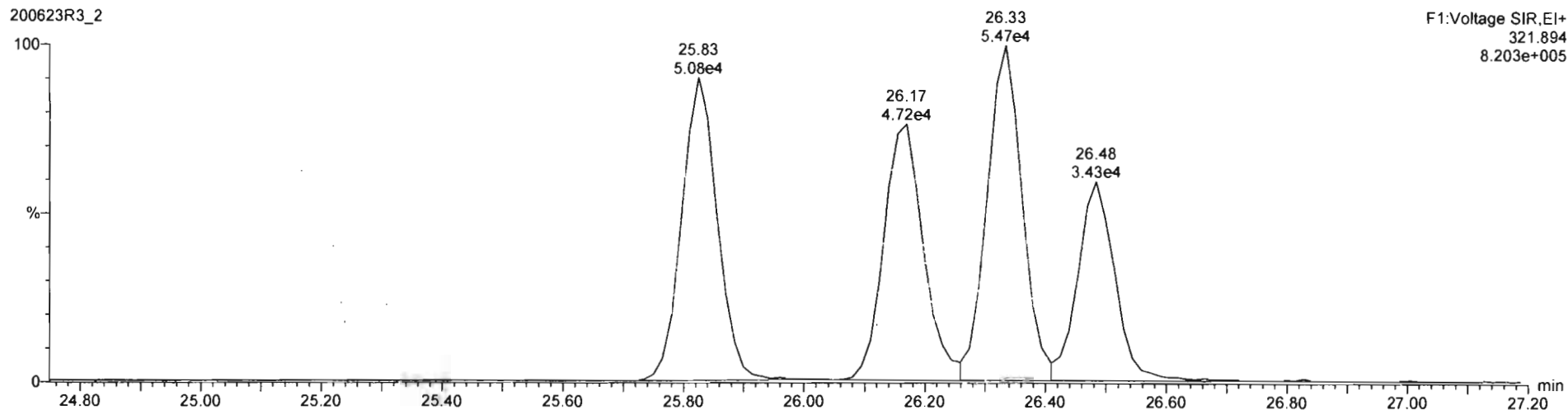
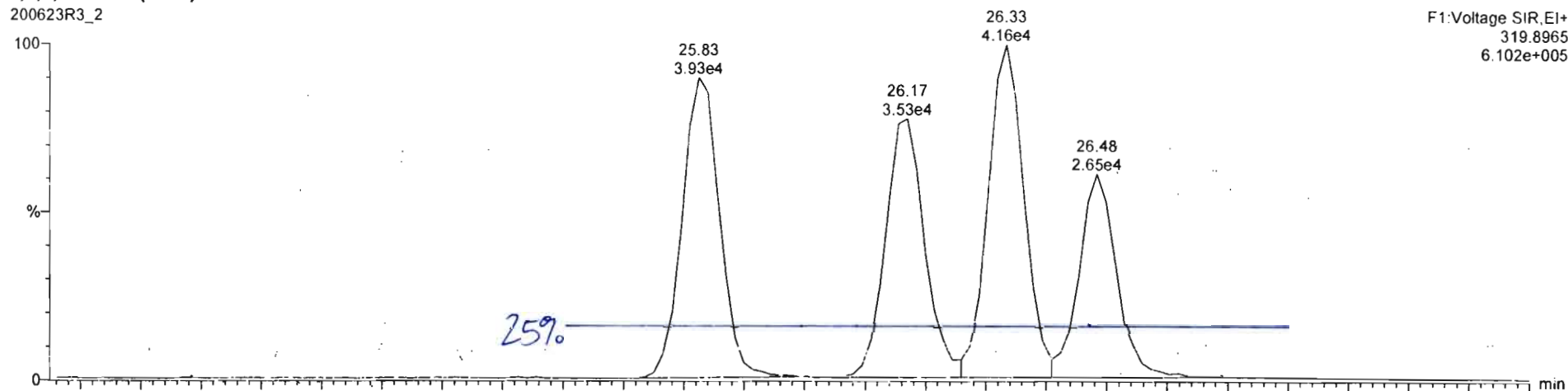
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GPB 06/24/2020

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Name: 200623R3_2, Date: 24-Jun-2020, Time: 04:19:50, ID: ST200623R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200623R3_2



Dataset: Untitled

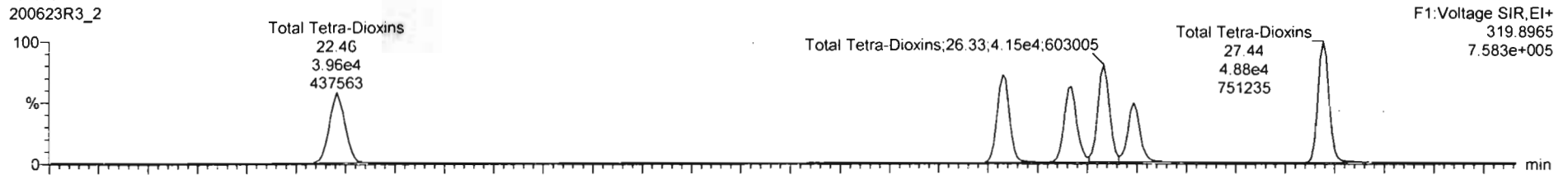
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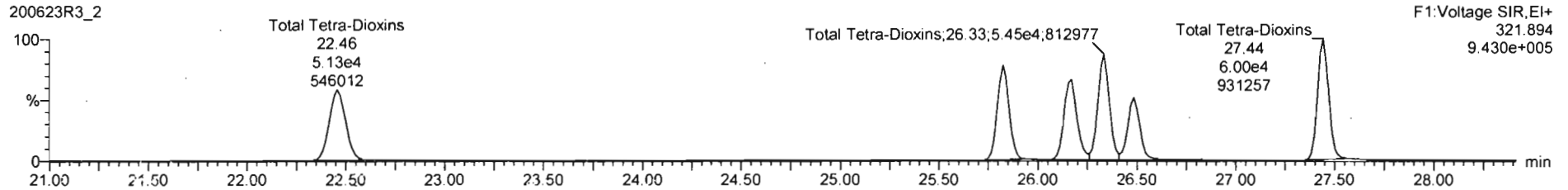
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2,3,7,8-TCDD

200623R3_2

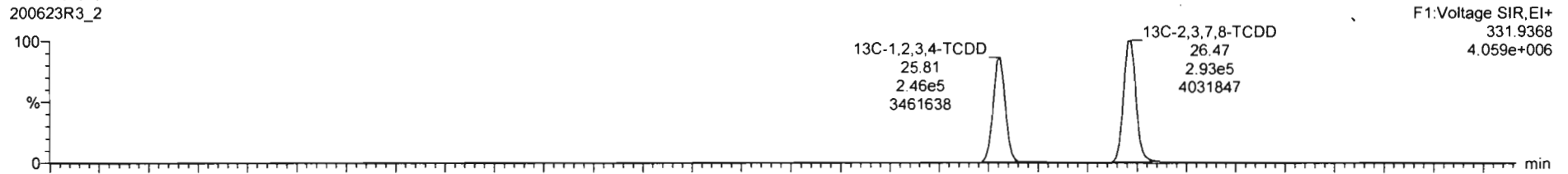


200623R3_2

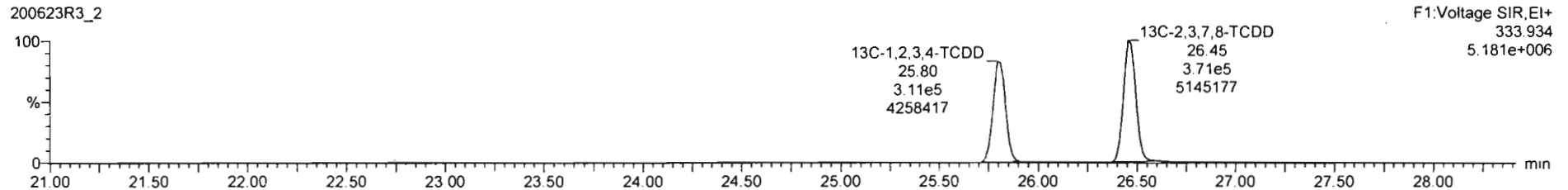


13C-2,3,7,8-TCDD

200623R3_2



200623R3_2



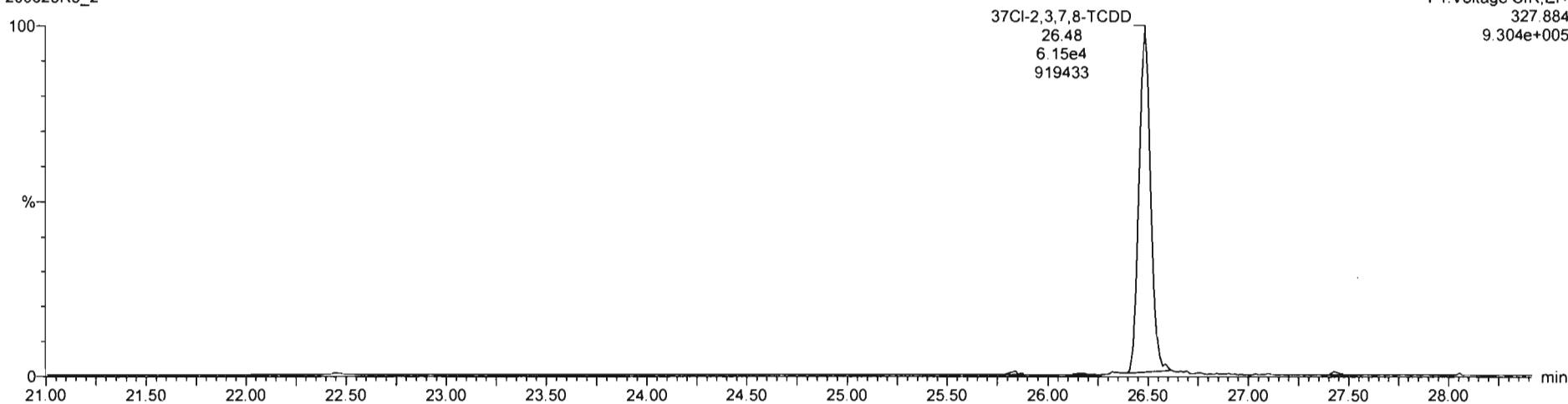
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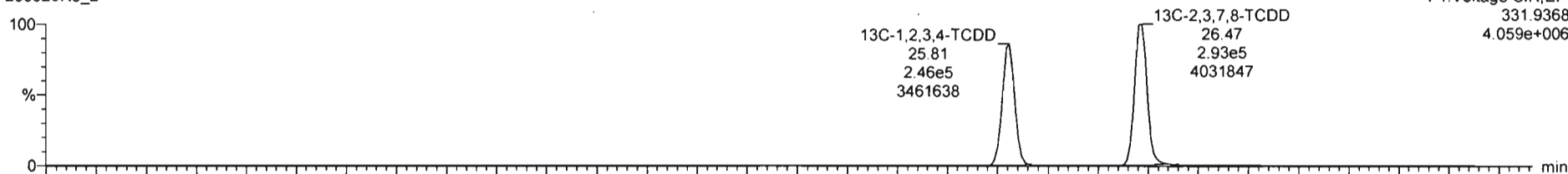
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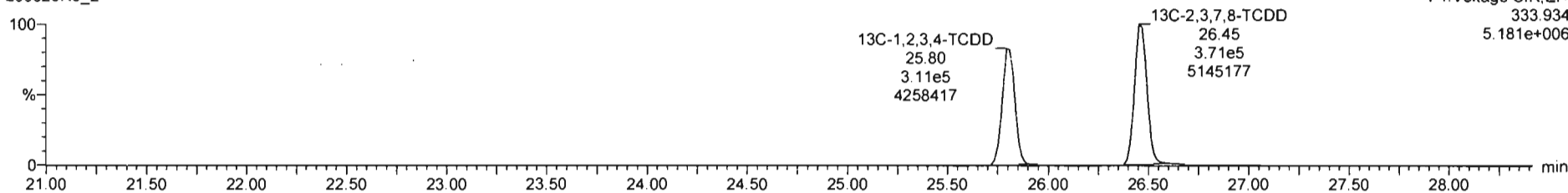


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200623R3_2



200623R3_2



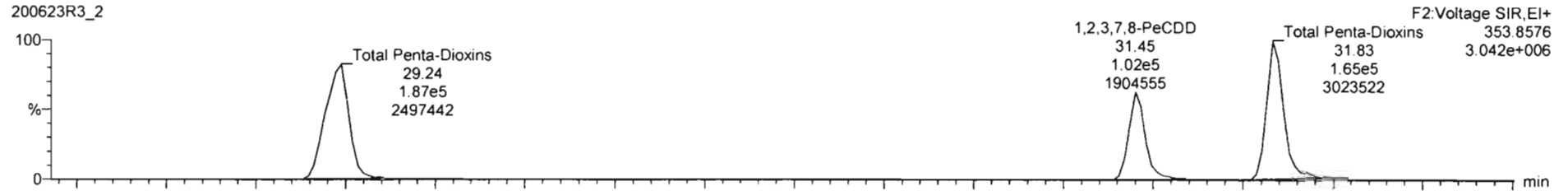
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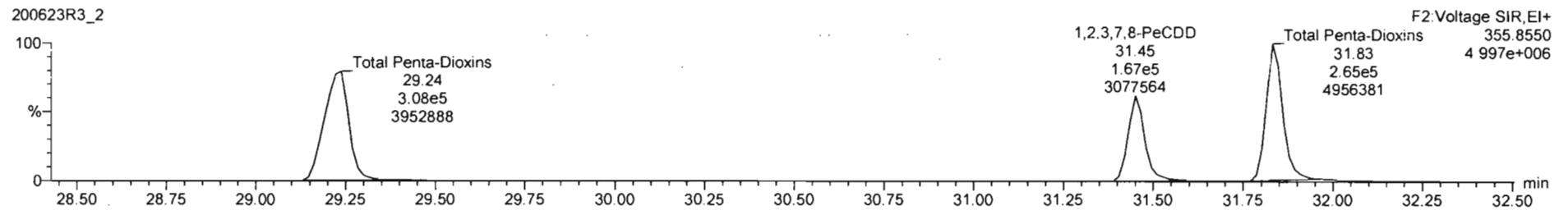
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1,2,3,7,8-PeCDD

200623R3_2

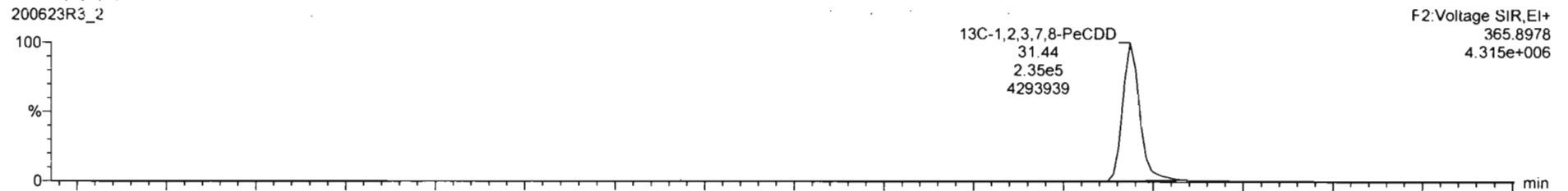


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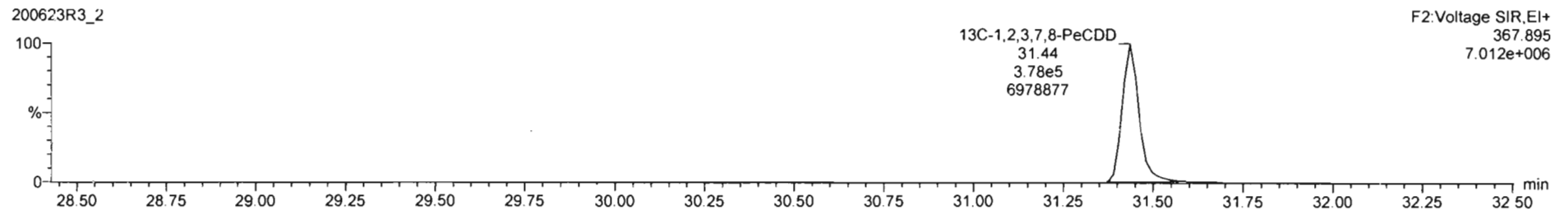


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200623R3_2



200623R3_2



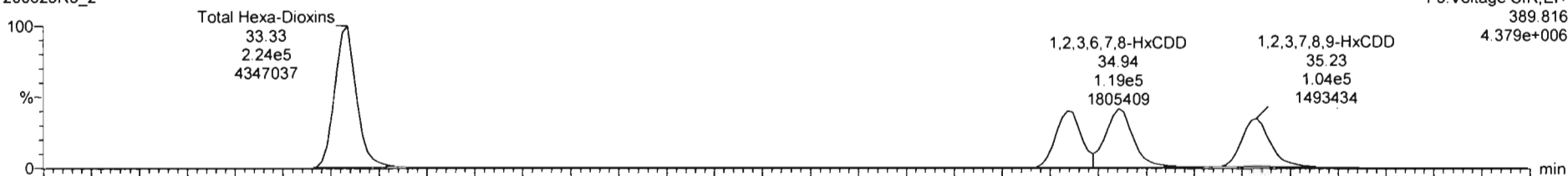
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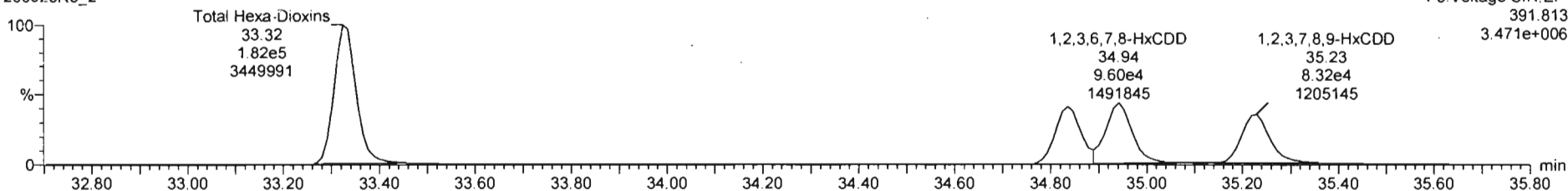
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1,2,3,4,7,8-HxCDD

200623R3_2

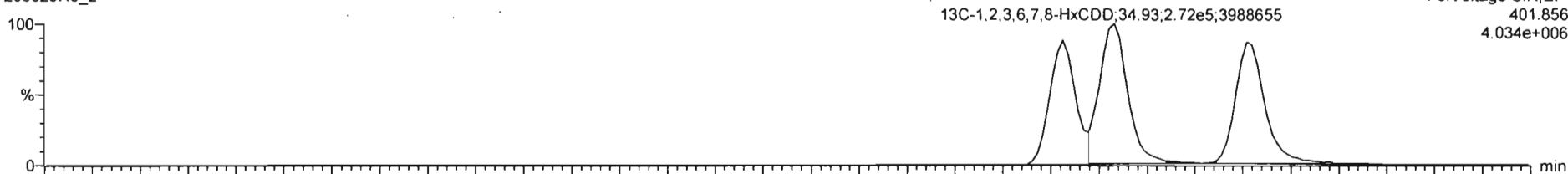


200623R3_2

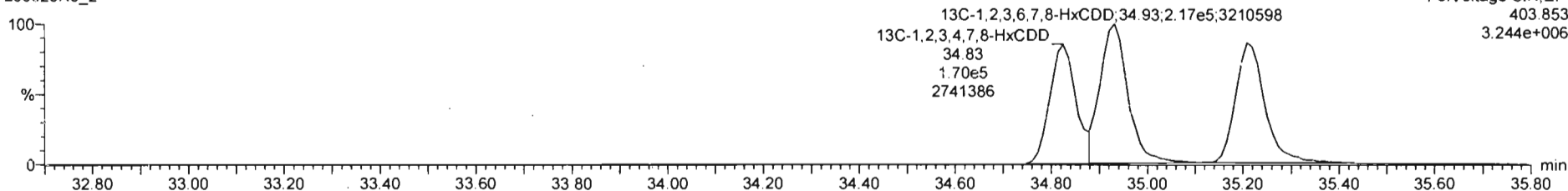


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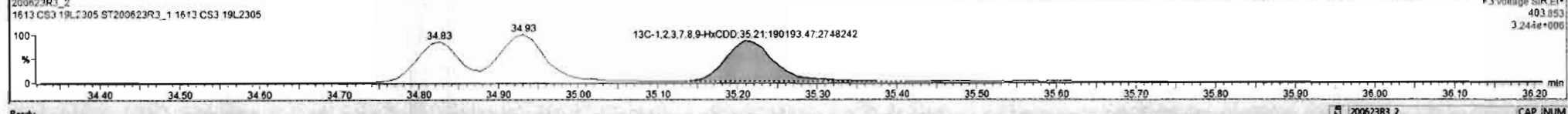
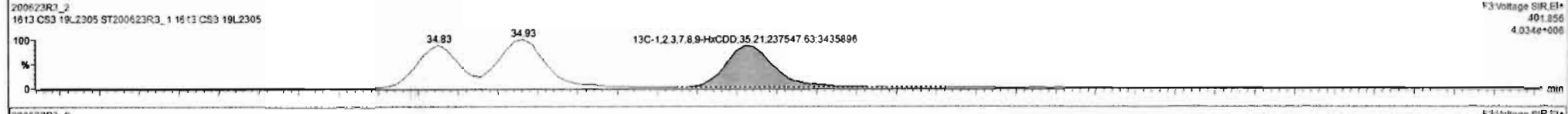
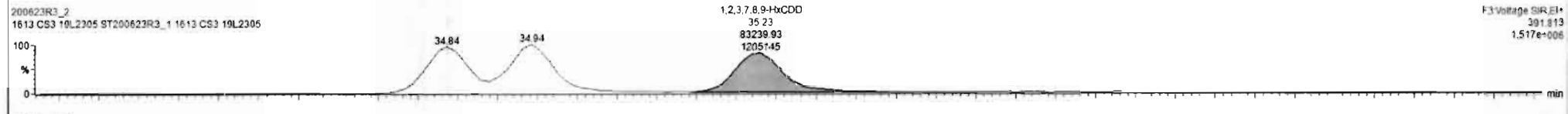
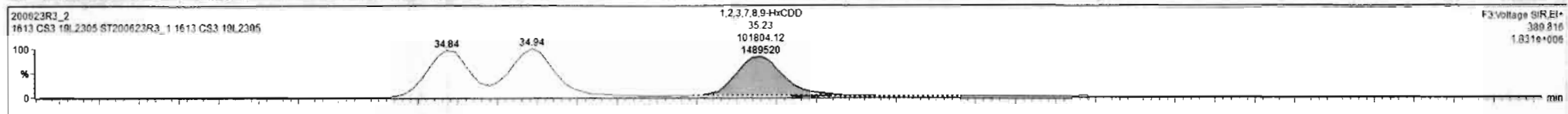
200623R3_2



200623R3_2



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	6.03e4	6.64e5	0.77	0.77	NO	0.8853	26.50	26.48	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	2.68e5	6.13e5	0.63	0.61	NO	0.9081	31.46	31.45	NO	1.001	1.000	48.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	1.94e5	3.89e5	1.24	1.23	NO	1.0324	34.84	34.84	NO	1.000	1.000	48.2	96.3	NO
4	1,2,3,6,7,8-HxCDD	2.15e5	4.88e5	1.24	1.24	NO	0.8923	34.93	34.94	NO	1.000	1.000	49.3	98.6	NO
5	1,2,3,7,8,9-HxCDD	1.85e5	4.26e5	1.24	1.22	NO	0.8869	35.22	35.23	NO	1.000	1.001	48.8	97.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.33e5	3.13e5	1.04	0.99	NO	0.8639	38.79	38.79	NO	1.000	1.000	49.3	98.6	NO
7	OCDD	2.32e5	5.12e5	0.89	0.91	NO	0.9138	41.79	41.80	NO	1.000	1.000	99.4	99.4	NO
8	1,2,3,7,8-TCDF	6.76e4	8.75e5	0.77	0.76	NO	0.7510	25.60	25.60	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	4.05e5	9.24e5	1.55	1.54	NO	0.8825	30.17	30.17	NO	1.001	1.001	49.2	98.3	NO
10	1,2,3,4,7,8-PeCDF	4.05e5	8.80e5	1.55	1.54	NO	0.9348	31.15	31.15	NO	1.001	1.000	49.3	98.5	NO
11	1,2,3,4,7,8-HxCDF	2.33e5	5.03e5	1.24	1.20	NO	0.8845	33.94	33.96	NO	1.000	1.001	52.4	105	NO
12	1,2,3,6,7,8-HxCDF	2.73e5	6.05e5	1.24	1.15	NO	0.8892	34.08	34.08	NO	1.000	1.000	50.7	101	NO
13	1,2,3,4,6,7,8-HxCDF	2.44e5	5.15e5	1.24	1.21	NO	0.9341	34.69	34.68	NO	1.001	1.001	50.7	101	NO
14	1,2,3,7,8,9-HxCDF	1.91e5	4.14e5	1.24	1.21	NO	0.8707	35.58	35.59	NO	1.000	1.000	52.9	106	NO
15	1,2,3,4,6,7,8-HpCDF	1.73e5	3.74e5	1.04	0.98	NO	0.8734	37.40	37.38	NO	1.001	1.001	53.1	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.17e5	2.21e5	1.04	0.99	NO	1.0128	39.32	39.33	NO	1.000	1.000	52.2	104	NO
17	OCDF	2.42e5	6.07e5	0.89	0.91	NO	0.8055	41.96	41.99	NO	1.000	1.000	99.0	99.0	NO
18	13C-2,3,7,8-TCDD	6.64e5	5.57e5	0.77	0.79	NO	1.1563	26.49	26.47	NO	1.026	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	6.13e5	5.57e5	0.63	0.62	NO	0.8490	31.67	31.44	NO	1.227	1.218	130	130	NO
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	5.17e5	1.24	1.26	NO	0.7790	34.83	34.83	NO	1.014	1.014	96.6	96.6	NO
21	13C-1,2,3,6,7,8-HxCDD	4.88e5	5.17e5	1.24	1.25	NO	1.0167	34.94	34.93	NO	1.017	1.017	93.0	93.0	NO



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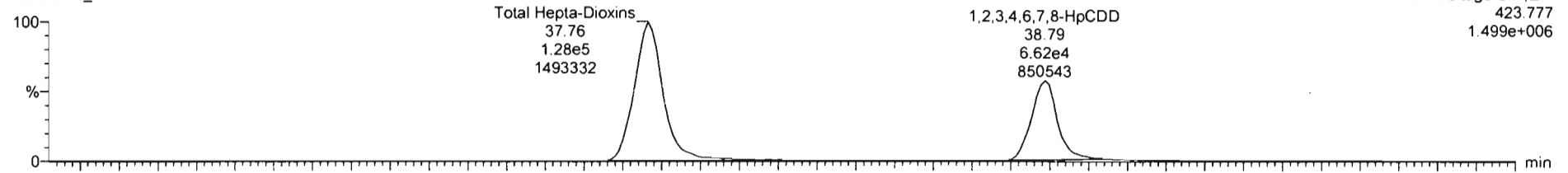
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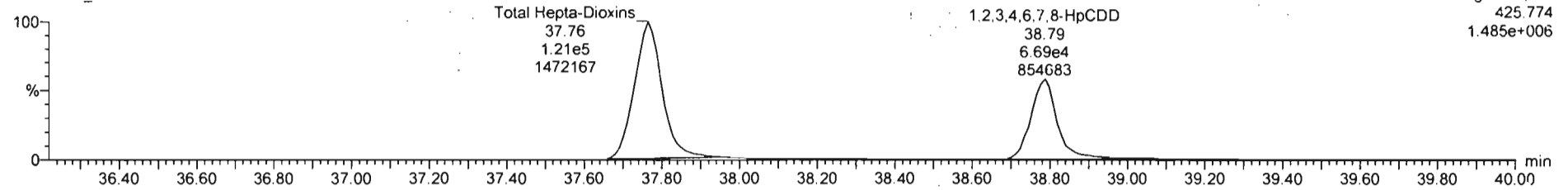
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1,2,3,4,6,7,8-HpCDD

200623R3_2

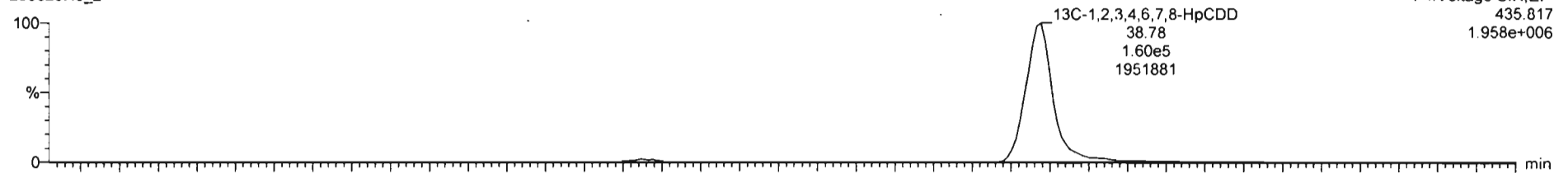


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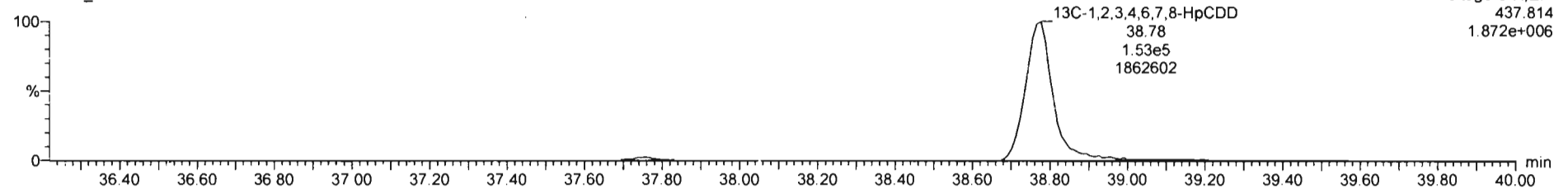


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200623R3_2



200623R3_2

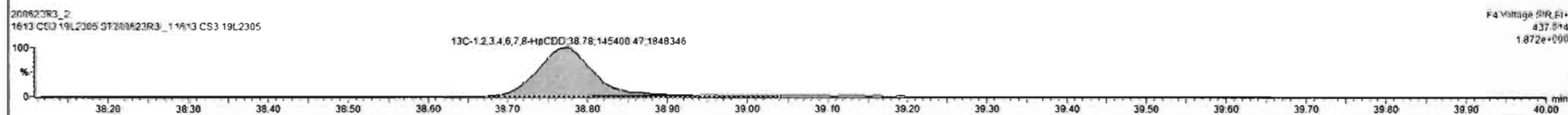
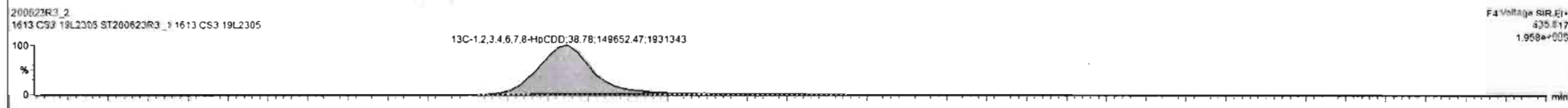
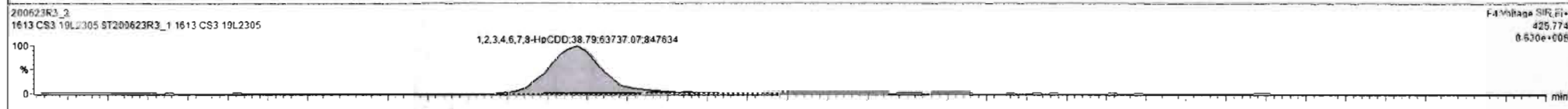
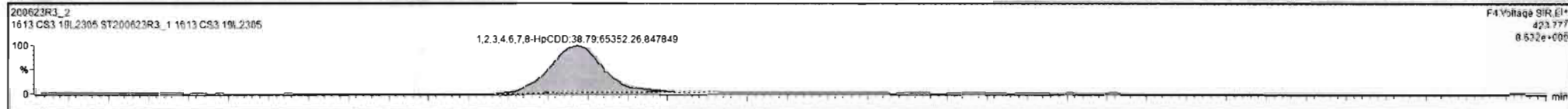


TargetLynx - untitled * - [Chromatogram]

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200623R3_2 ST200623R3_1 1613 CS3 19L2305 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RBF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	6.03e4	6.64e5	0.77	0.77	NO	0.8853	26.50	26.48	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	2.68e5	6.13e5	0.63	0.61	NO	0.9051	31.46	31.45	NO	1.001	1.000	48.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	1.94e5	3.89e5	1.24	1.23	NO	1.0334	34.84	34.84	NO	1.000	1.000	48.2	96.3	NO
4	1,2,3,6,7,8-HxCDD	2.15e5	4.88e5	1.24	1.24	NO	0.8923	34.93	34.94	NO	1.000	1.000	49.3	98.6	NO
5	1,2,3,7,8,9-HxCDD	1.85e5	4.26e5	1.24	1.22	NO	0.8869	35.22	35.23	NO	1.000	1.001	48.8	97.8	NO
6	1,2,3,4,6,7,8-HpCDD	1.29e5	2.95e5	1.94	1.93	NO	0.8639	38.79	38.79	NO	1.000	1.000	50.6	101	NO
7	OCDD	2.32e5	5.12e5	0.89	0.91	NO	0.9136	41.79	41.80	NO	1.000	1.000	99.4	99.4	NO
8	2,3,7,8-TCDF	6.78e4	8.75e5	0.77	0.76	NO	0.7510	26.60	26.60	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	4.05e5	9.24e5	1.55	1.54	NO	0.8925	30.17	30.17	NO	1.001	1.001	49.2	98.3	NO
10	2,3,4,7,8-PeCDF	4.05e5	8.80e5	1.55	1.54	NO	0.9348	31.16	31.15	NO	1.001	1.000	49.3	98.5	NO
11	1,2,3,4,7,8-HxCDF	2.33e5	5.03e5	1.24	1.20	NO	0.8845	33.94	33.96	NO	1.000	1.001	52.4	105	NO
12	1,2,3,6,7,8-HxCDF	2.73e5	6.05e5	1.24	1.15	NO	0.8892	34.08	34.08	NO	1.000	1.000	50.7	101	NO
13	2,3,4,6,7,8-HxCDF	2.44e5	5.15e5	1.24	1.21	NO	0.9341	34.69	34.68	NO	1.001	1.001	50.7	101	NO
14	1,2,3,7,8,9-HxCDF	1.91e5	4.14e5	1.24	1.21	NO	0.8707	35.58	35.59	NO	1.000	1.000	52.9	106	NO
15	1,2,3,4,6,7,8-HpCDF	1.73e5	3.74e5	1.04	0.98	NO	0.8734	37.40	37.38	NO	1.001	1.001	53.1	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.17e5	2.21e5	1.04	0.99	NO	1.0128	39.32	39.33	NO	1.000	1.000	52.2	104	NO
17	OCDF	2.42e5	8.07e5	0.89	0.91	NO	0.8865	41.98	41.99	NO	1.000	1.000	99.0	99.0	NO
18	13C-2,3,7,8-TCDD	6.64e5	5.57e5	0.77	0.78	NO	1.1563	26.49	26.47	NO	1.026	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	6.13e5	5.57e5	0.63	0.62	NO	0.8490	31.67	31.44	NO	1.227	1.218	130	130	NO
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	5.17e5	1.24	1.26	NO	0.7790	34.83	34.83	NO	1.014	1.014	96.6	96.6	NO
21	13C-1,2,3,6,7,8-HxCDD	4.88e5	5.17e5	1.24	1.25	NO	1.0167	34.94	34.93	NO	1.017	1.017	93.0	93.0	NO



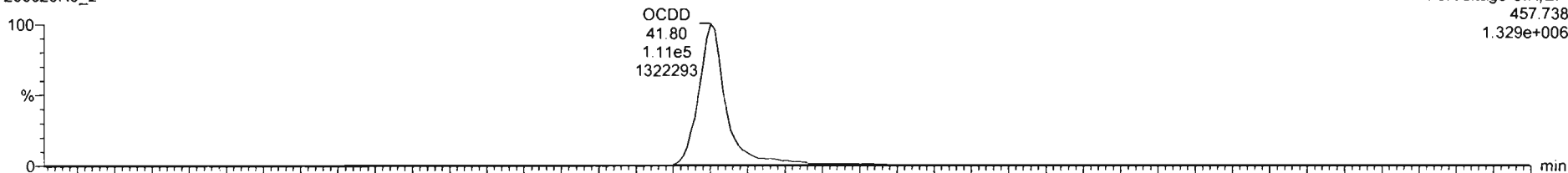
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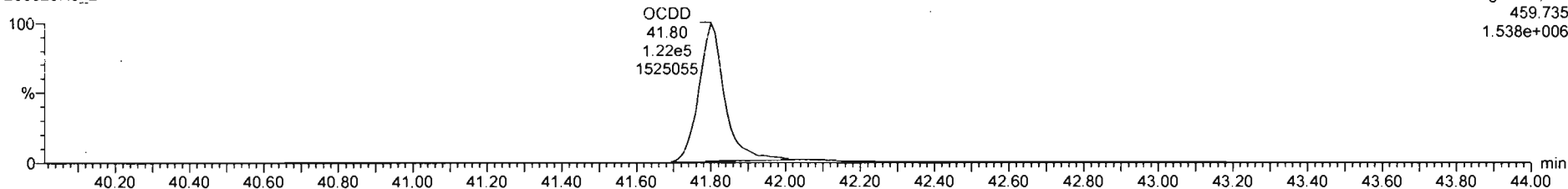
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OCDD

200623R3_2

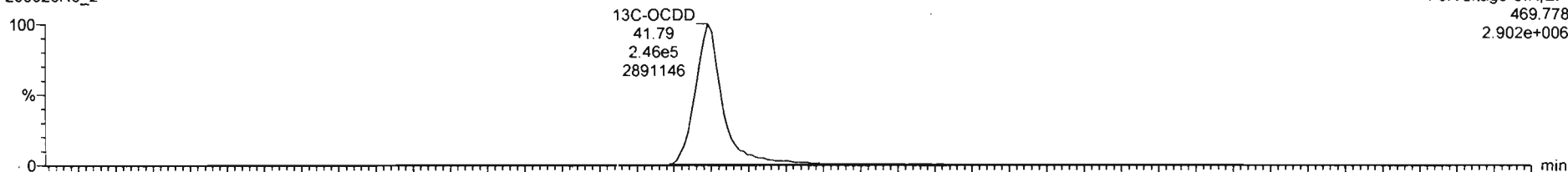


200623R3_2

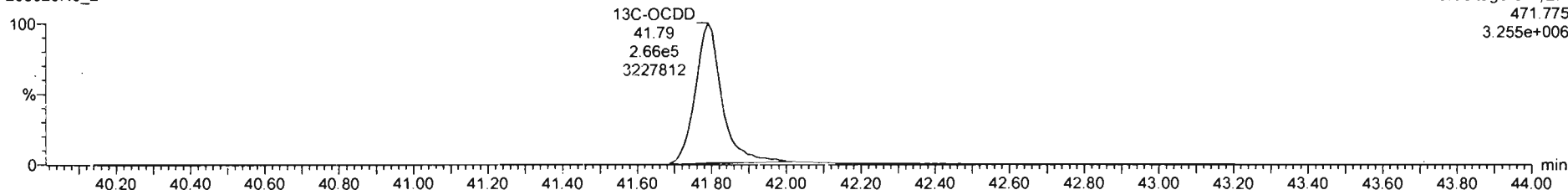


13C-OCDD

200623R3_2



200623R3_2



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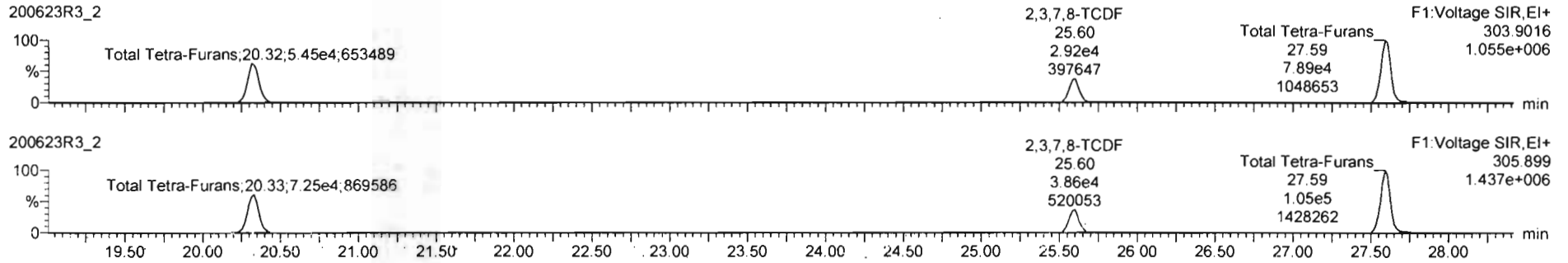
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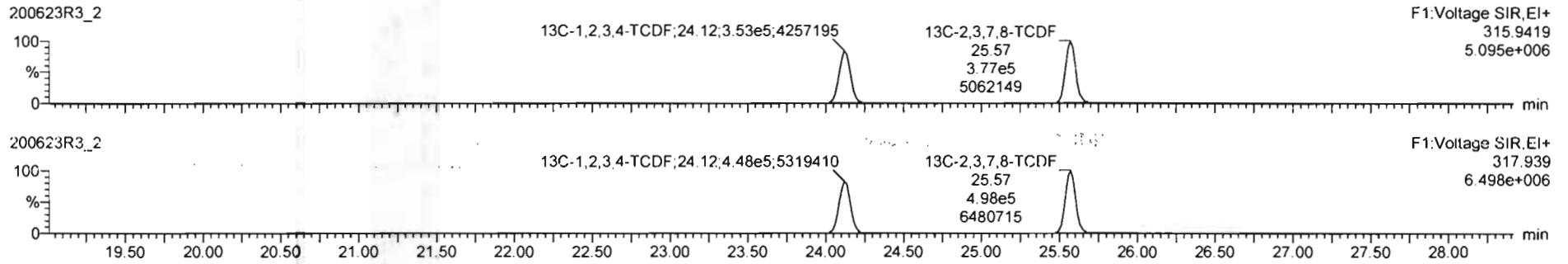
2,3,7,8-TCDF

200623R3_2



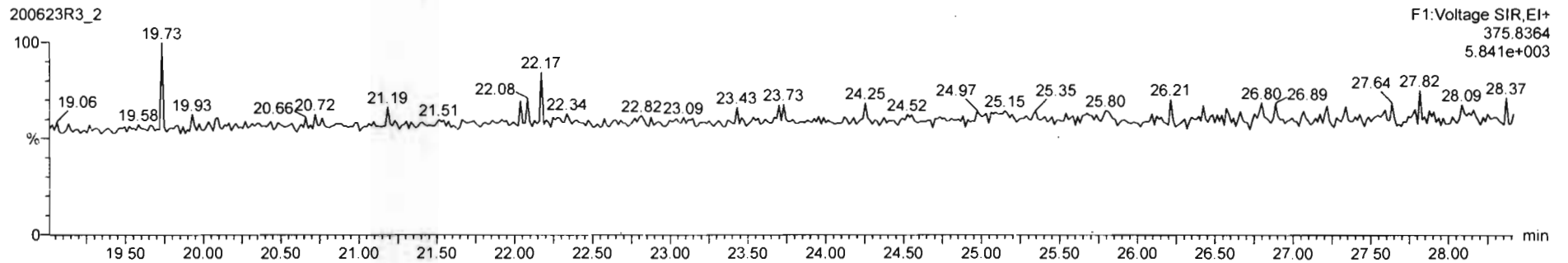
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200623R3_2



DPE1

200623R3_2



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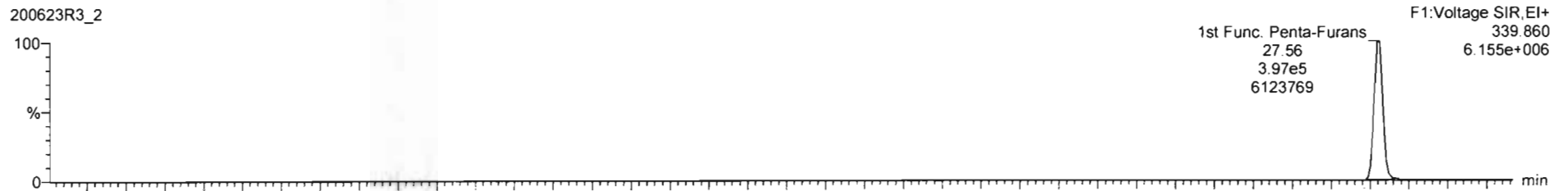
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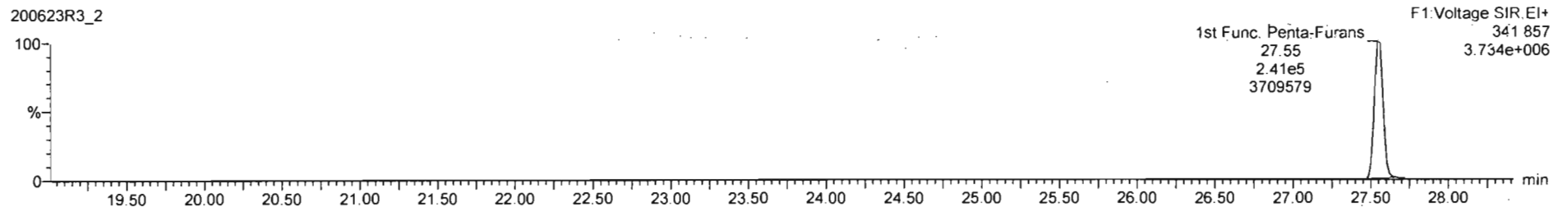
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1st Func. Penta-Furans

200623R3_2

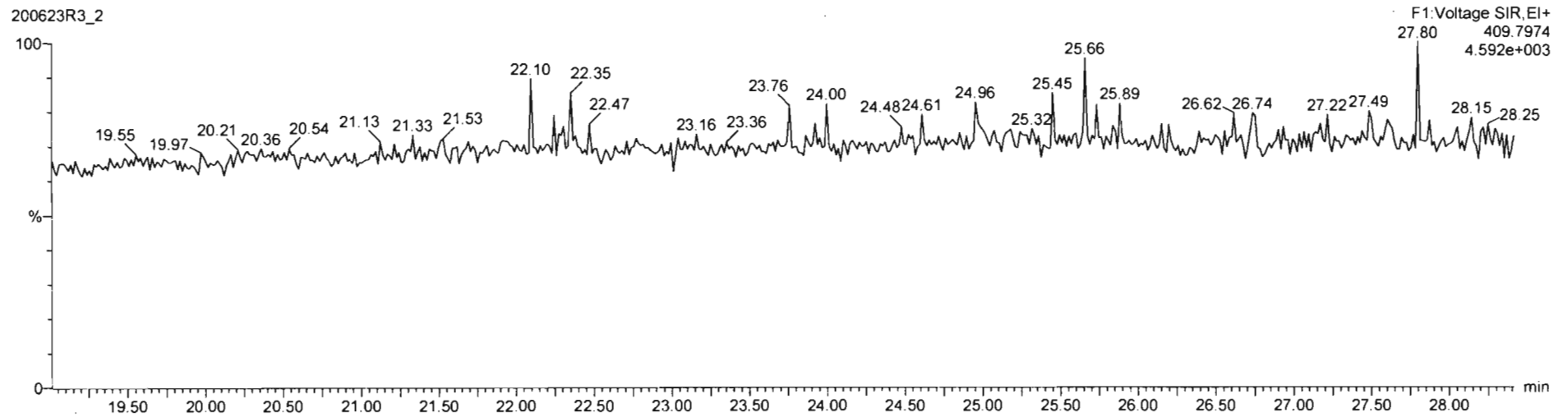


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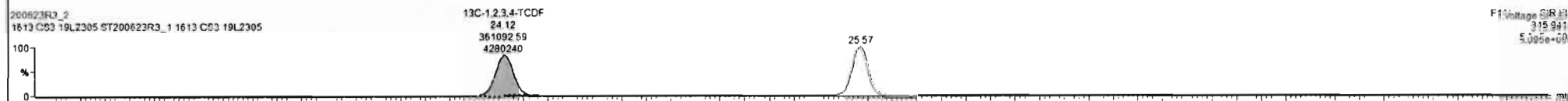
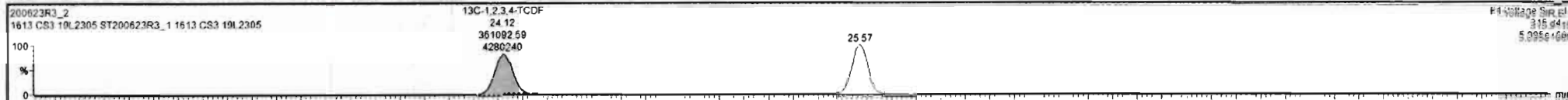


DPES

200623R3_2



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
24	13C-OCDD	5.12e5	5.17e5	0.89	0.93	NO	0.8521	41.76	41.79	NO	1.216	1.217	152	76.0	NO
25	13C-2,3,7,8-TCDF	8.75e5	8.21e5	0.77	0.76	NO	1.0590	25.53	25.57	NO	0.989	0.991	101	101	NO
26	13C-1,2,3,7,8-PeCDF	8.85e5	8.21e5	1.55	1.59	NO	0.8380	29.06	29.15	NO	1.165	1.168	129	129	NO
27	13C-2,3,4,7,8-PeCDF	8.56e5	8.21e5	1.55	1.58	NO	0.8166	31.01	31.13	NO	0.8166	0.8166	128	128	NO
28	13C-1,2,3,4,7,8-HxCDF	5.03e5	5.17e5	0.51	0.51	NO	1.0075	33.96	33.94	NO	0.989	0.988	96.7	96.7	NO
29	12C-1,2,3,6,7,8-HxCDF	6.05e5	5.17e5	0.51	0.50	NO	1.1670	34.08	34.07	NO	0.992	0.992	100	100	NO
30	13C-2,3,4,6,7,8-HxCDF	5.15e5	5.17e5	0.51	0.53	NO	1.0219	34.86	34.85	NO	1.009	1.009	97.8	97.6	NO
31	13C-1,2,3,7,8,9-HxCDF	4.09e5	5.17e5	0.51	0.50	NO	0.8595	35.56	35.58	NO	1.035	1.036	92.1	92.1	NO
32	13C-1,2,3,4,6,7,8-HpCDF	3.74e5	5.17e5	0.44	0.44	NO	0.7745	37.31	37.36	NO	1.086	1.088	93.4	93.4	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.21e5	5.17e5	0.44	0.44	NO	0.5210	39.34	39.32	NO	1.145	1.145	82.0	82.0	NO
34	13C-OCDF	6.07e5	5.17e5	0.89	0.89	NO	0.7457	41.93	41.98	NO	1.221	1.222	158	78.8	NO
35	37Cl-2,3,7,8-TCDD	6.15e4	5.57e5				1.0368	26.52	26.48	NO	1.028	1.028	10.6	106	NO
36	13C-1,2,3,4-TCDD	5.57e5	5.57e5	0.77	0.79	NO	1.0000	25.89	25.81	NO	1.000	1.000	100	100	NO
37	13C-1,2,3,4-TCDF	8.27e5	8.21e5	0.77	0.79	NO	1.0000	24.36	24.12	NO	1.000	1.000	100	100	NO
38	12C-1,2,3,4,6,9-HxCDF	5.17e5	5.17e5	0.51	0.51	NO	1.0000	34.42	34.35	NO	1.000	1.000	100	100	YES
39	Total Tetra-Dioxins	8.84e5					0.8883	24.62		NO	0.000		89.5		NO
40	Total Penta-Dioxins	8.13e5					0.9081	29.96		NO	0.000		214		NO
41	Total Hexa-Dioxins	0.00e0					0.8923	33.63		NO	0.000		252		NO
42	Total Hepta-Dioxins	2.96e5					0.8639	37.64		NO	0.000		148		NO
43	Total Tetra-Furans	8.75e5					0.7510	23.61		NO	0.000		57.7		NO
44	1st Func. Penta-Furans	0.00e0					0.8925	27.58		NO	0.000		82.2		NO



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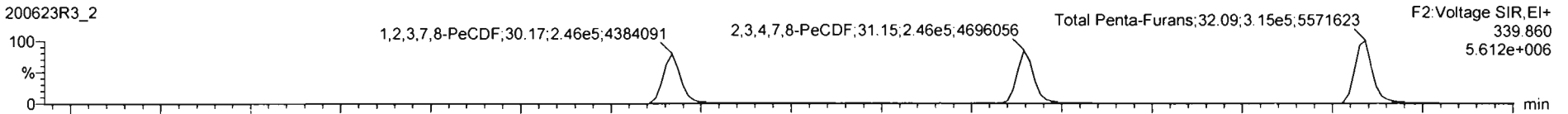
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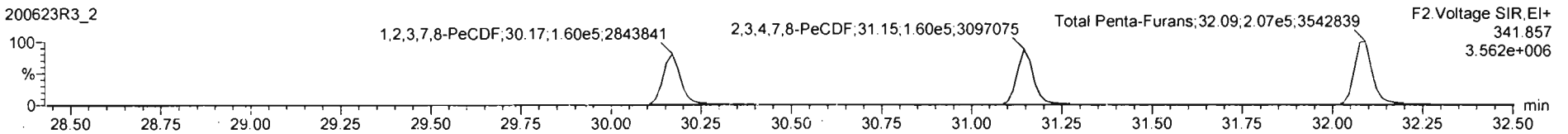
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1,2,3,7,8-PeCDF

200623R3_2

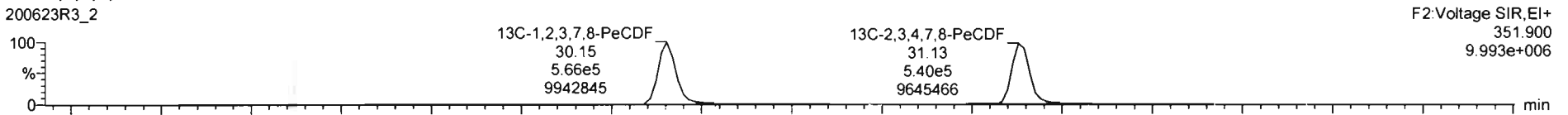


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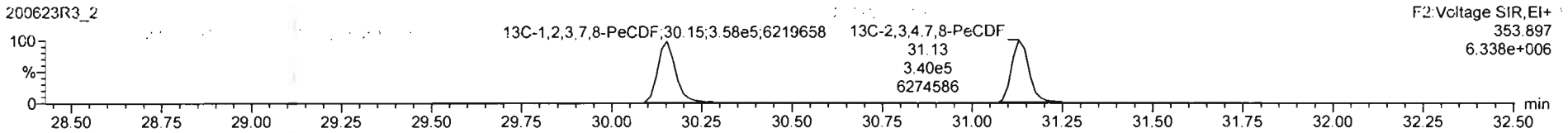


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200623R3_2

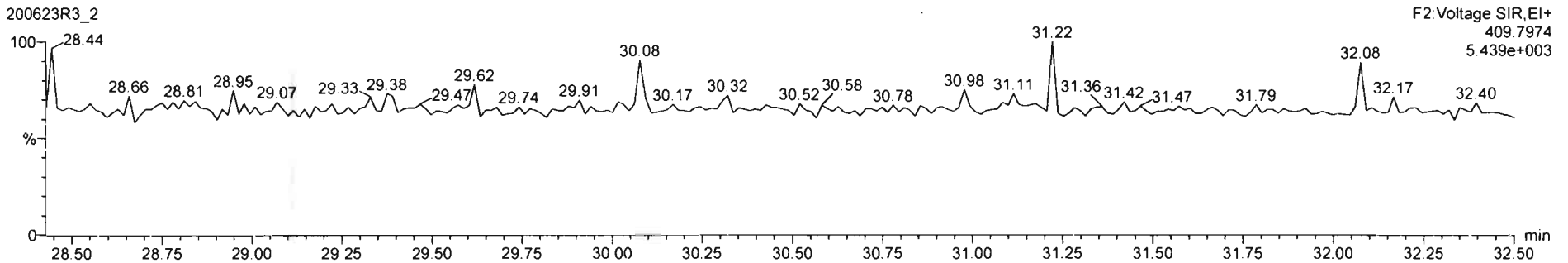


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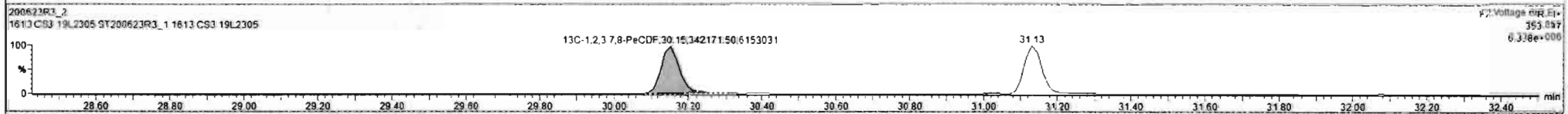
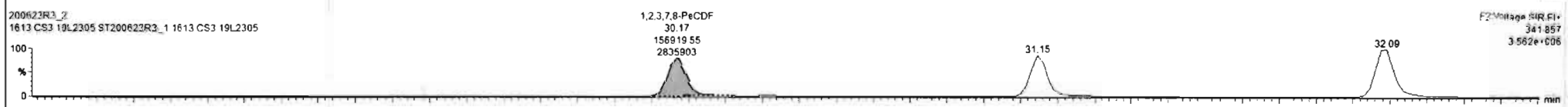
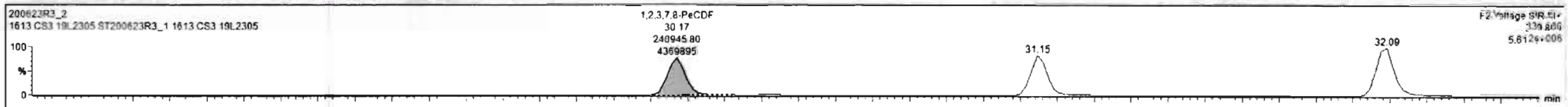


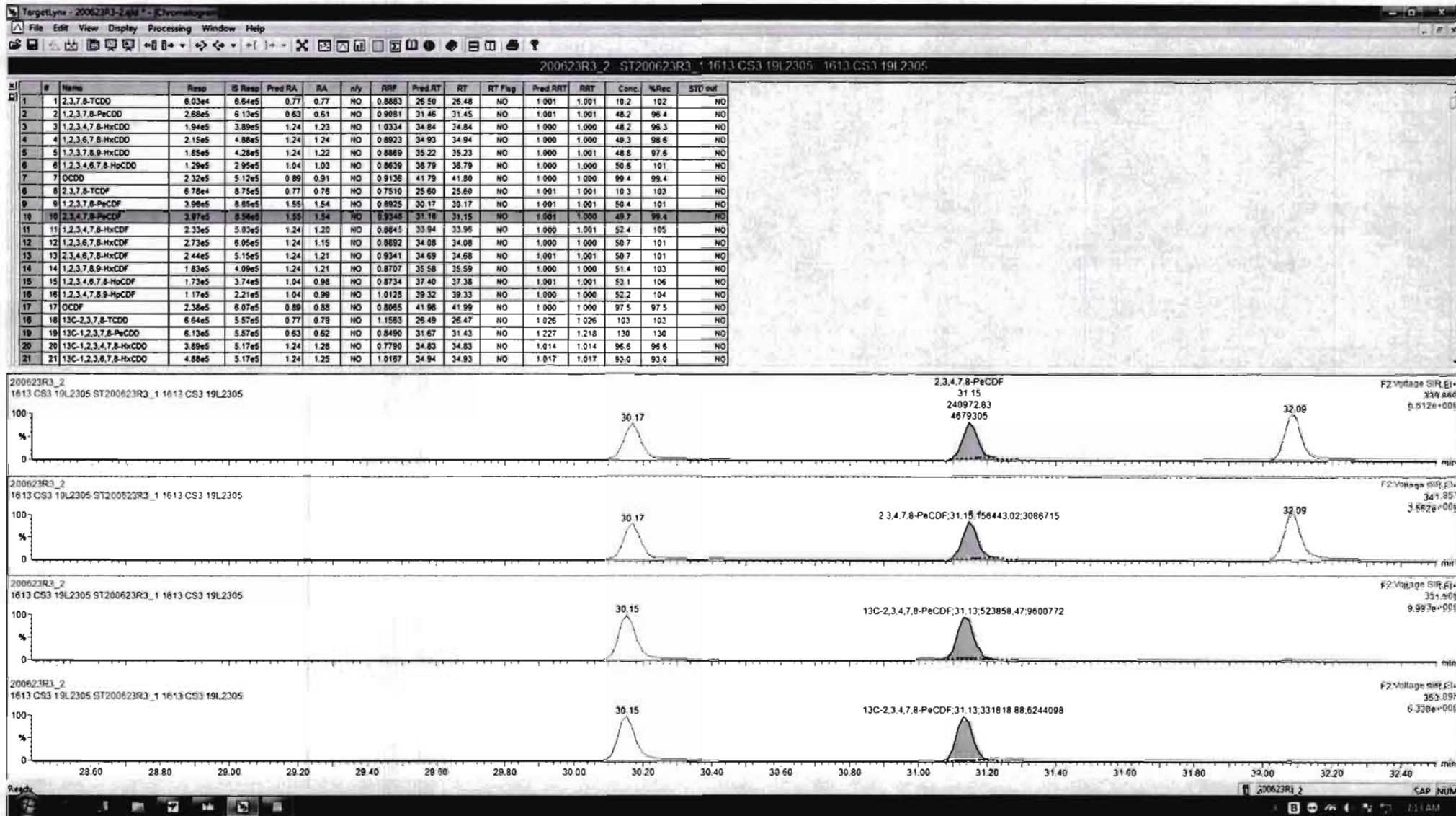
DPE2

200623R3_2



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD dev
1	1,2,3,7,8-TCDD	6.02e4	6.64e5	0.77	0.77	NO	0.8883	26.50	26.48	NO	1.001	1.001	16.2	102	NO
2	1,2,3,7,8-PeCDD	2.68e5	6.13e5	0.63	0.61	NO	0.9081	31.46	31.45	NO	1.001	1.001	48.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	1.94e5	3.89e5	1.24	1.23	NO	1.0334	34.84	34.84	NO	1.000	1.000	48.2	96.3	NO
4	1,2,3,6,7,8-HxCDD	2.15e5	4.88e5	1.24	1.24	NO	0.8923	34.80	34.94	NO	1.000	1.000	49.3	98.6	NO
5	1,2,3,7,8,9-HxCDD	1.85e5	4.28e5	1.24	1.22	NO	0.8889	35.22	35.23	NO	1.000	1.001	48.8	97.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.29e5	2.95e5	1.04	1.03	NO	0.8639	38.79	38.79	NO	1.000	1.000	50.6	101	NO
7	OCDD	2.32e5	5.12e5	0.89	0.91	NO	0.9136	41.79	41.80	NO	1.000	1.000	99.4	99.4	NO
8	2,3,7,8-TCDF	6.78e4	8.75e5	0.77	0.76	NO	0.7510	25.60	25.60	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	3.95e5	8.95e5	1.55	1.54	NO	0.8925	30.17	30.17	NO	1.001	1.001	50.4	101	NO
10	2,3,4,7,8-PeCDF	4.05e5	8.56e5	1.55	1.54	NO	0.9348	31.16	31.15	NO	1.001	1.001	50.7	101	NO
11	1,2,3,4,7,8-HxCDF	2.33e5	5.03e5	1.24	1.20	NO	0.8845	33.94	33.96	NO	1.000	1.001	52.4	105	NO
12	1,2,3,6,7,8-HxCDF	2.73e5	6.05e5	1.24	1.15	NO	0.8892	34.08	34.08	NO	1.000	1.000	50.7	101	NO
13	2,3,4,6,7,8-HxCDF	2.44e5	5.15e5	1.24	1.21	NO	0.9341	34.69	34.68	NO	1.001	1.001	50.7	101	NO
14	1,2,3,7,8,9-HxCDF	1.83e5	4.08e5	1.24	1.21	NO	0.8707	35.58	35.59	NO	1.000	1.000	51.4	103	NO
15	1,2,3,4,6,7,8-HpCDF	1.73e5	3.74e5	1.04	0.98	NO	0.8734	37.40	37.38	NO	1.001	1.001	53.1	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.17e5	2.21e5	1.04	0.99	NO	1.0128	39.32	39.33	NO	1.000	1.000	52.2	104	NO
17	OCDF	2.38e5	6.07e5	0.89	0.98	NO	0.8065	41.96	41.99	NO	1.000	1.000	97.5	97.5	NO
18	13C-2,3,7,8-TCDD	6.64e5	5.57e5	0.77	0.79	NO	1.1563	26.49	26.47	NO	1.026	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	6.13e5	5.57e5	0.63	0.62	NO	0.8490	31.67	31.43	NO	1.227	1.218	130	130	NO
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	5.17e5	1.24	1.26	NO	0.7790	34.83	34.63	NO	1.014	1.014	96.6	96.6	NO
21	13C-1,2,3,6,7,8-HxCDD	4.88e5	5.17e5	1.24	1.25	NO	1.0167	34.94	34.93	NO	1.017	1.017	93.0	93.0	NO



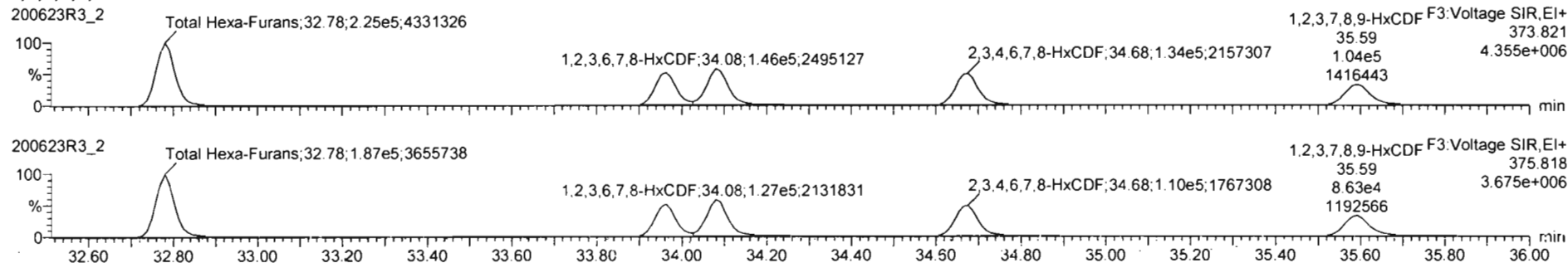


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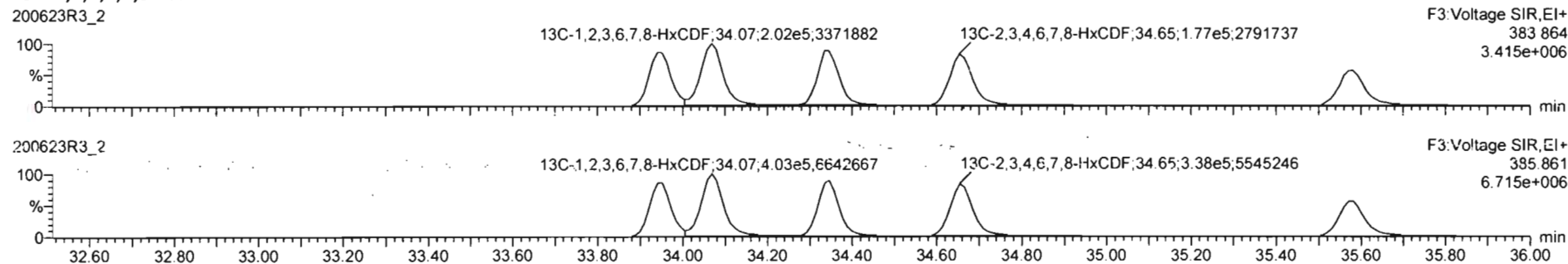
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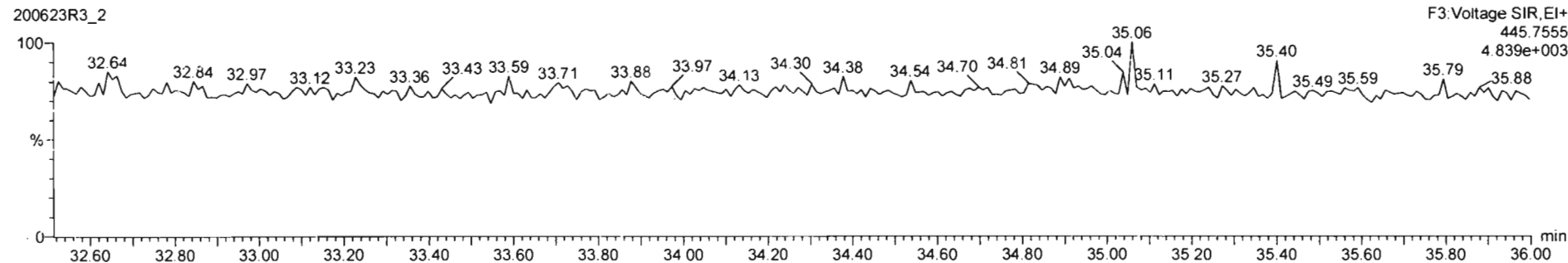
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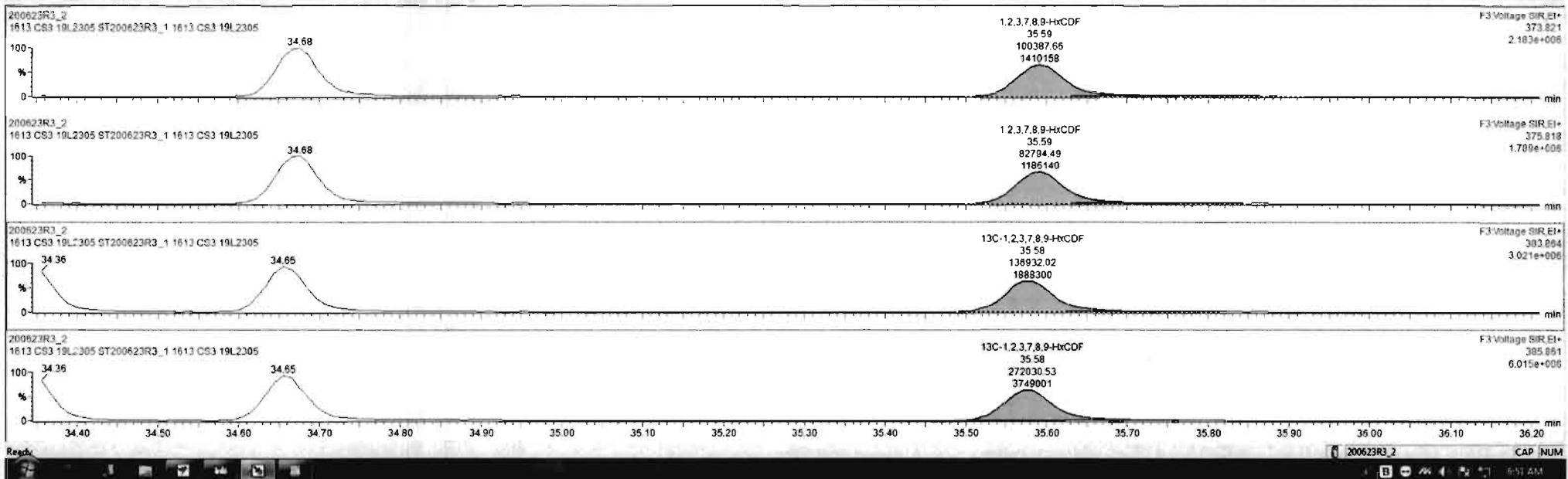
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	6.03e4	6.64e5	0.77	0.77	NO	0.8883	26.50	26.48	NO	1.001	1.001	16.2	102	NO
2	1,2,3,7,8-PeCDD	2.88e5	6.13e5	0.63	0.61	NO	0.9081	31.46	31.45	NO	1.001	1.000	48.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	1.94e5	3.89e5	1.24	1.23	NO	1.0324	34.84	34.84	NO	1.000	1.000	48.2	96.3	NO
4	1,2,3,6,7,8-HxCDD	2.15e5	4.88e5	1.24	1.24	NO	0.8923	34.93	34.94	NO	1.000	1.000	49.3	98.6	NO
5	1,2,3,7,8,9-HxCDD	1.85e5	4.28e5	1.24	1.22	NO	0.8889	35.22	35.23	NO	1.000	1.001	48.6	97.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.29e5	2.95e5	1.04	1.03	NO	0.8639	38.79	38.79	NO	1.000	1.000	50.6	101	NO
7	OCDF	2.32e5	5.12e5	0.89	0.91	NO	0.9136	41.79	41.80	NO	1.000	1.000	99.4	99.4	NO
8	2,3,7,8-TCDF	6.78e4	8.75e5	0.77	0.76	NO	0.7510	25.60	25.60	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	4.05e5	9.24e5	1.55	1.54	NO	0.8925	30.17	30.17	NO	1.001	1.001	49.2	98.3	NO
10	2,3,4,7,8-PeCDF	4.05e5	8.80e5	1.55	1.54	NO	0.9348	31.16	31.15	NO	1.001	1.000	49.3	98.5	NO
11	1,2,3,4,7,8-HxCDF	2.33e5	5.03e5	1.24	1.20	NO	0.8645	33.94	33.96	NO	1.000	1.001	52.4	105	NO
12	1,2,3,6,7,8-HxCDF	2.73e5	6.05e5	1.24	1.15	NO	0.8892	34.08	34.08	NO	1.000	1.000	50.7	101	NO
13	2,3,4,6,7,8-HxCDF	2.44e5	5.15e5	1.24	1.21	NO	0.9341	34.68	34.68	NO	1.001	1.001	50.7	101	NO
14	1,2,3,7,8,9-HxCDF	1.83e5	4.09e5	1.24	1.21	NO	0.8707	35.56	35.58	NO	1.000	1.000	51.8	103	NO
15	1,2,3,4,6,7,8-HpCDF	1.73e5	3.74e5	1.04	0.98	NO	0.8734	37.40	37.38	NO	1.001	1.001	53.1	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.17e5	2.21e5	1.04	0.99	NO	1.0128	39.32	39.33	NO	1.000	1.000	52.2	104	NO
17	OCDF	2.42e5	6.07e5	0.89	0.91	NO	0.8065	41.98	41.99	NO	1.000	1.000	99.0	99.0	NO
18	13C-2,3,7,8-TCDD	6.84e5	5.57e5	0.77	0.79	NO	1.1583	26.49	26.47	NO	1.026	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	6.13e5	5.57e5	0.63	0.62	NO	0.8490	31.67	31.44	NO	1.227	1.218	130	130	NO
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	5.17e5	1.24	1.28	NO	0.7790	34.83	34.83	NO	1.014	1.014	96.6	96.6	NO
21	13C-1,2,3,6,7,8-HxCDD	4.88e5	5.17e5	1.24	1.25	NO	1.0187	34.94	34.93	NO	1.017	1.017	93.0	93.0	NO



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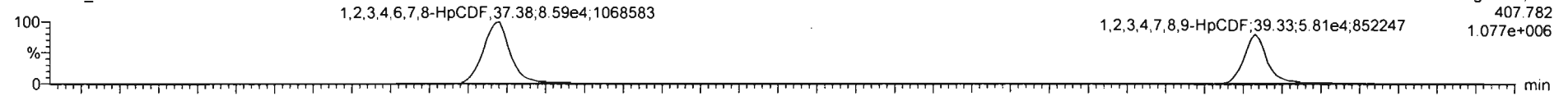
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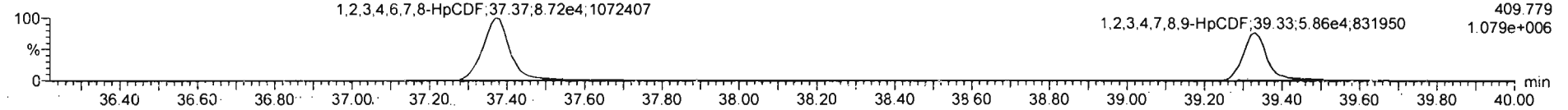
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200623R3_2

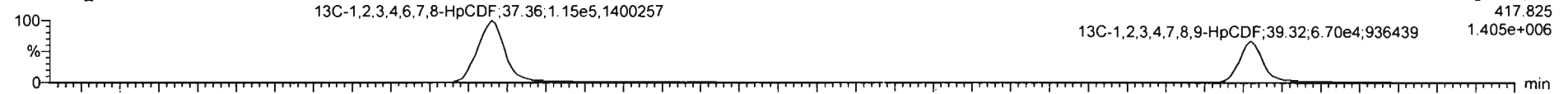


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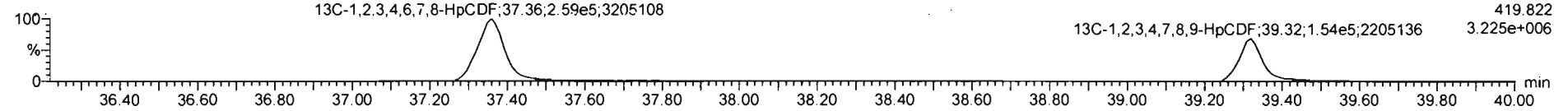


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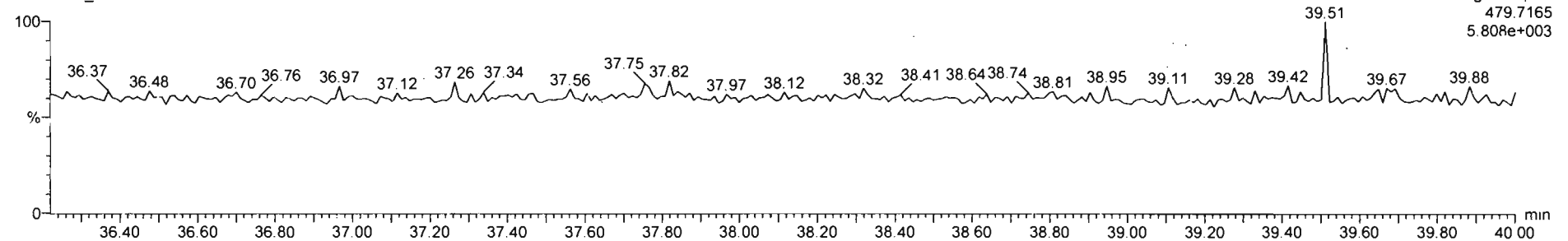


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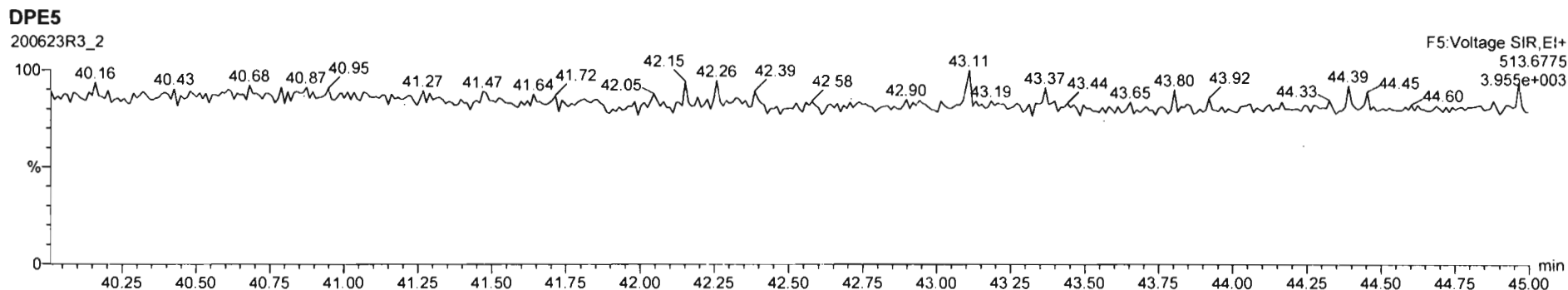
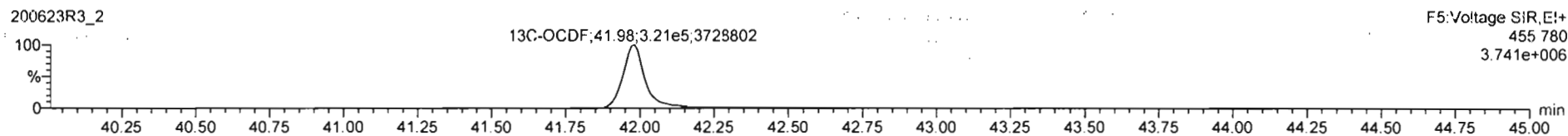
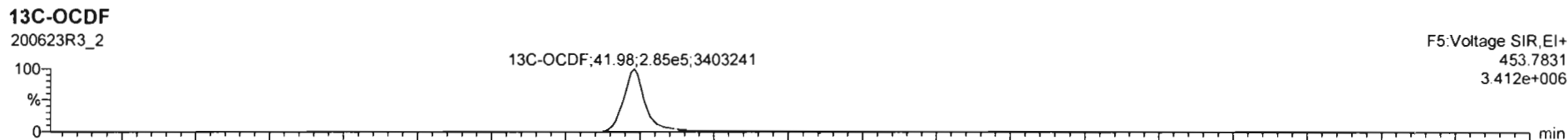
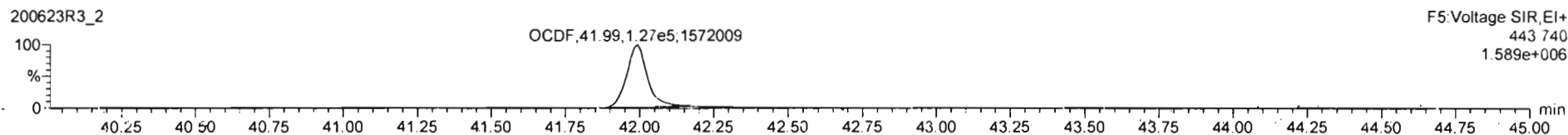
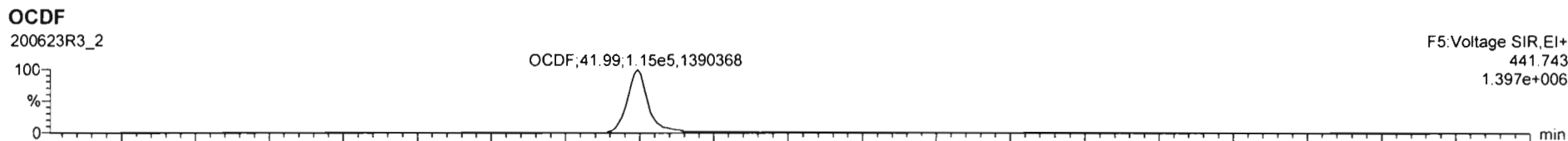
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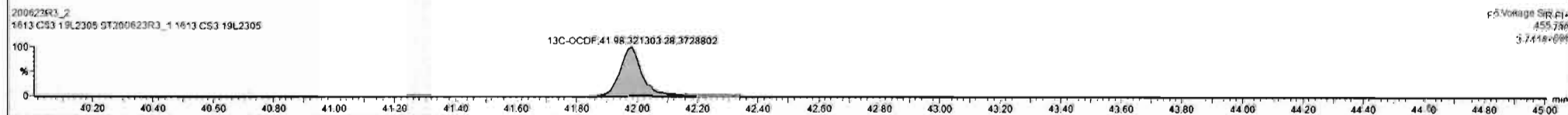


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200623R3_2 ST200623R3_1 1613 CS3 19L2305 1613 CS3 19L2305

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1	1,2,3,7,8-TCDD	6.02e4	6.64e5	0.77	0.77	NO	0.8803	26.50	26.48	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	2.68e5	6.13e5	0.63	0.61	NO	0.9081	31.46	31.45	NO	1.001	1.000	48.2	96.4	NO
3	1,2,3,4,7,8-HxCDD	1.94e5	3.89e5	1.24	1.23	NO	1.0334	24.84	24.84	NO	1.000	1.000	48.2	96.3	NO
4	1,2,3,6,7,8-HxCDD	2.15e5	4.86e5	1.24	1.24	NO	0.8923	34.93	34.94	NO	1.000	1.000	49.3	98.5	NO
5	1,2,3,7,8,9-HxCDD	1.85e5	4.26e5	1.24	1.22	NO	0.8869	35.22	35.23	NO	1.000	1.001	48.6	97.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.29e5	2.95e5	1.04	1.03	NO	0.8639	36.79	36.79	NO	1.000	1.000	50.6	101	NO
7	OCDD	2.32e5	5.12e5	0.89	0.91	NO	0.9136	41.79	41.80	NO	1.000	1.000	99.4	99.4	NO
8	2,3,7,8-TCDF	6.76e4	8.75e5	0.77	0.76	NO	0.7510	25.60	25.60	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	4.05e5	9.24e5	1.55	1.54	NO	0.8925	30.17	30.17	NO	1.001	1.001	49.2	98.3	NO
10	2,3,4,7,8-PeCDF	4.05e5	8.80e5	1.55	1.54	NO	0.9348	31.16	31.15	NO	1.001	1.000	49.3	98.5	NO
11	1,2,3,4,7,8-HxCDF	2.33e5	5.03e5	1.24	1.20	NO	0.8845	33.94	33.96	NO	1.000	1.001	52.4	105	NO
12	1,2,3,6,7,8-HxCDF	2.73e5	6.05e5	1.24	1.15	NO	0.8892	34.08	34.08	NO	1.000	1.000	50.7	101	NO
13	2,3,4,6,7,8-HxCDF	2.44e5	5.15e5	1.24	1.21	NO	0.9241	34.69	34.68	NO	1.001	1.001	50.7	101	NO
14	1,2,3,7,8,9-HxCDF	1.83e5	4.09e5	1.24	1.21	NO	0.8707	35.58	35.59	NO	1.000	1.000	51.4	103	NO
15	1,2,3,4,6,7,8-HpCDF	1.73e5	3.74e5	1.04	0.98	NO	0.8734	37.40	37.38	NO	1.001	1.001	53.1	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.17e5	2.21e5	1.04	0.99	NO	1.0128	39.32	39.33	NO	1.000	1.000	52.2	104	NO
17	OCDF	2.39e5	6.97e5	0.90	0.88	NO	0.8665	41.98	41.98	NO	1.000	1.000	97.5	97.5	NO
18	13C-2,3,7,8-TCDD	6.64e5	5.57e5	0.77	0.79	NO	1.1563	26.49	26.47	NO	1.026	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	6.13e5	5.57e5	0.63	0.62	NO	0.8490	31.67	31.44	NO	1.227	1.216	130	130	NO
20	13C-1,2,3,4,7,8-HxCDD	3.89e5	5.17e5	1.24	1.28	NO	0.7790	34.83	34.83	NO	1.014	1.014	96.6	96.6	NO
21	13C-1,2,3,6,7,8-HxCDD	4.86e5	5.17e5	1.24	1.25	NO	1.0167	34.94	34.93	NO	1.017	1.017	93.0	93.0	NO

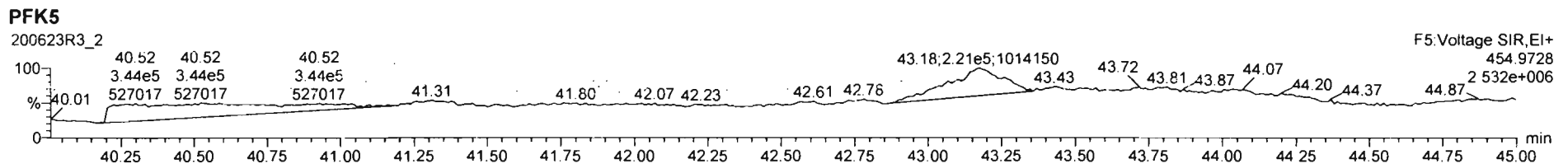
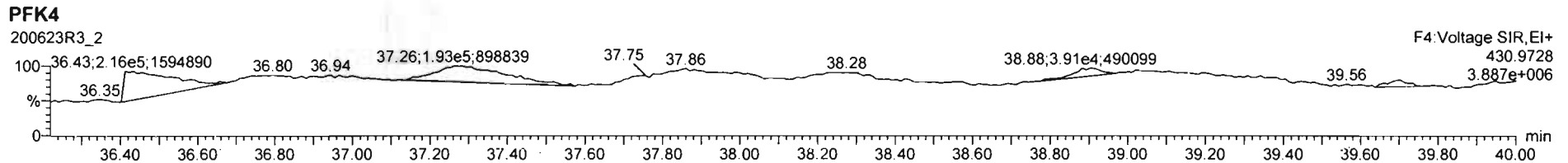
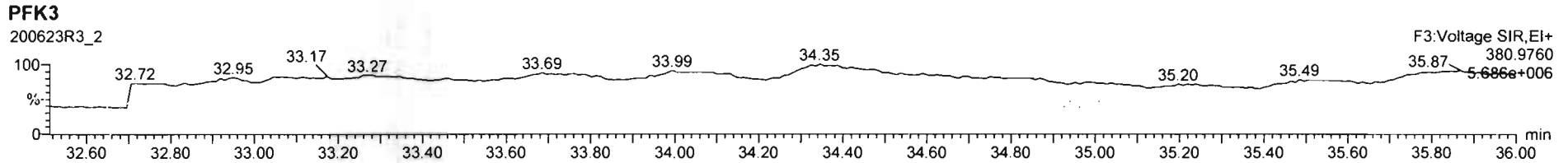
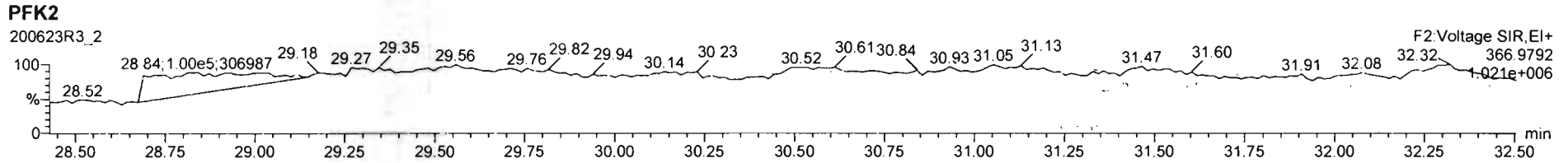
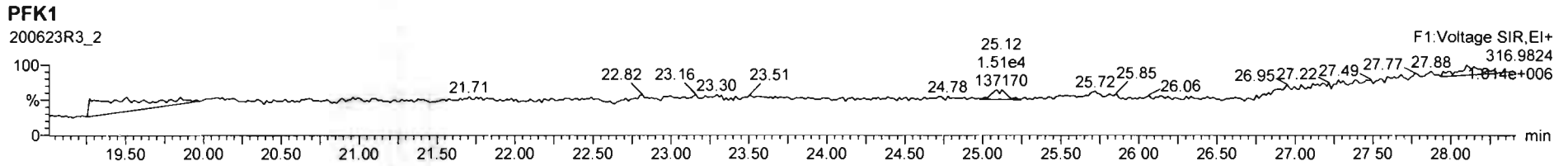


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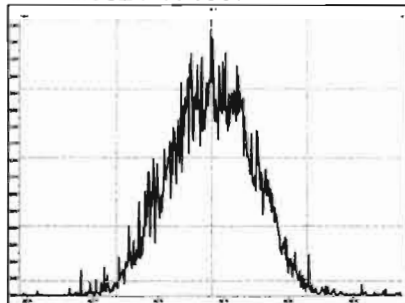
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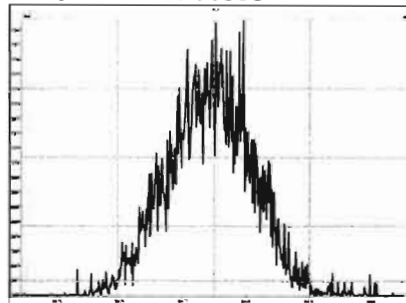


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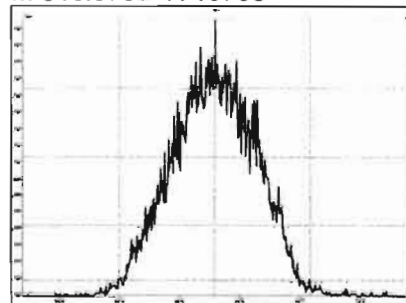
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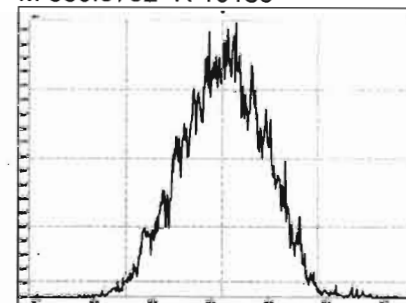
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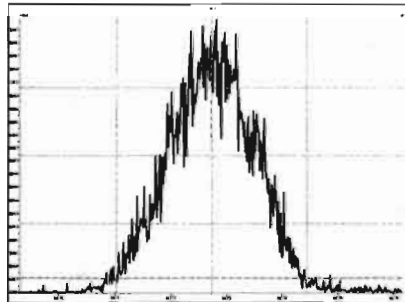
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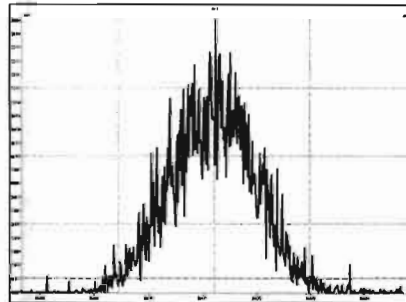
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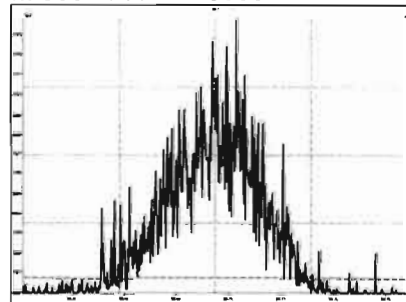
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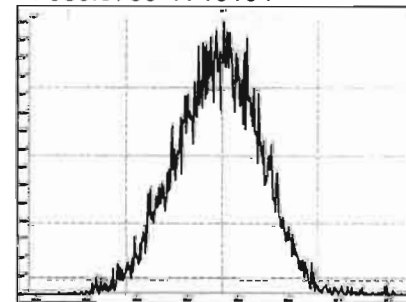
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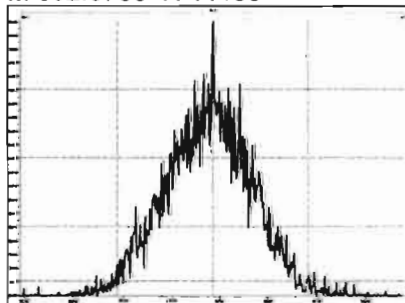
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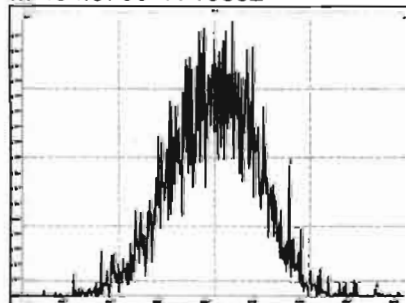
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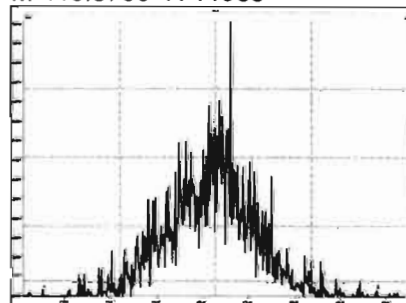
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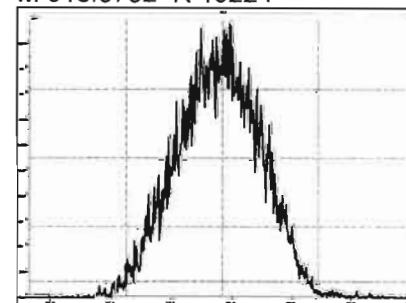
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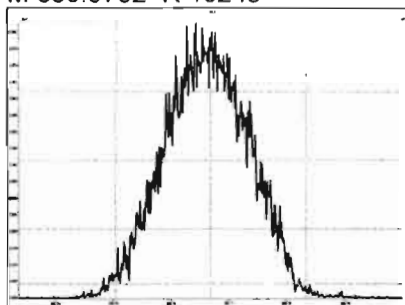


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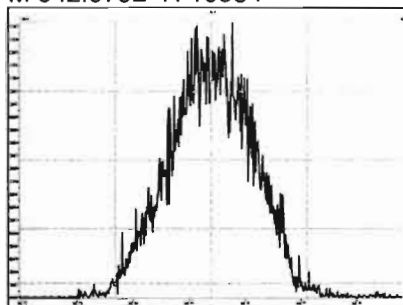


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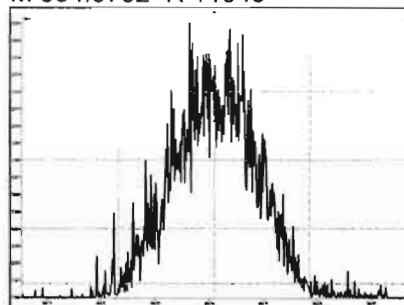
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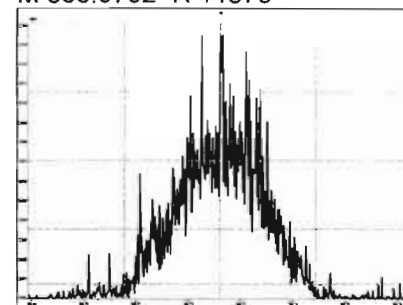
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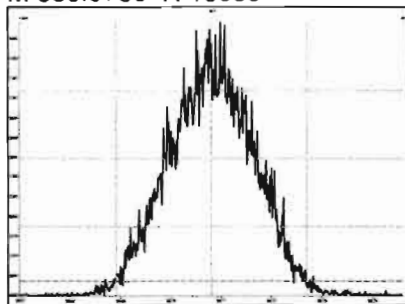
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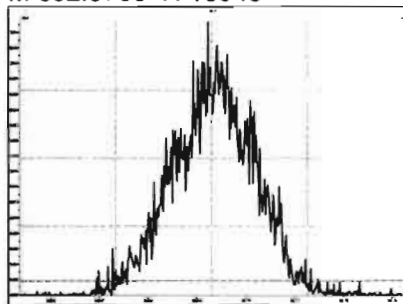
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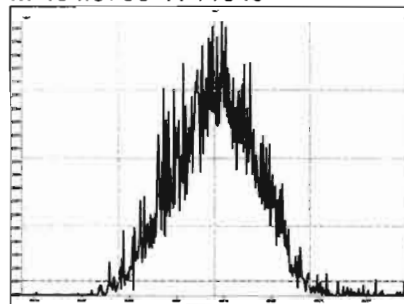
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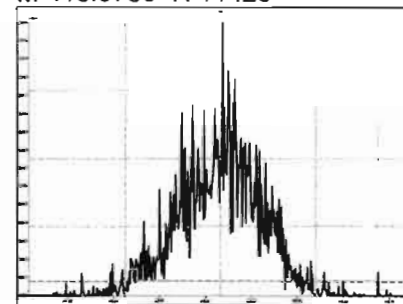
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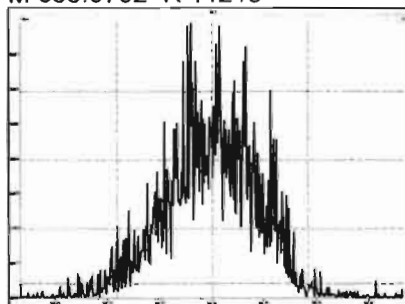
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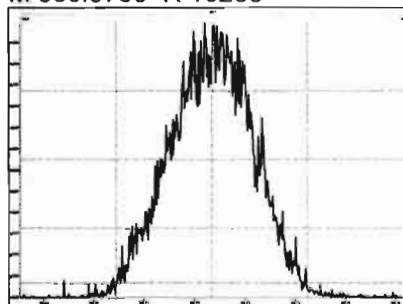
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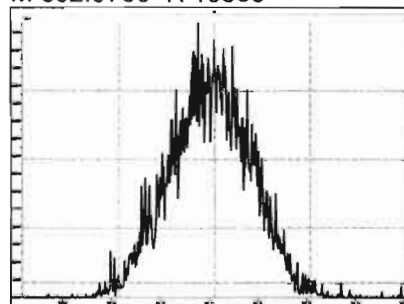
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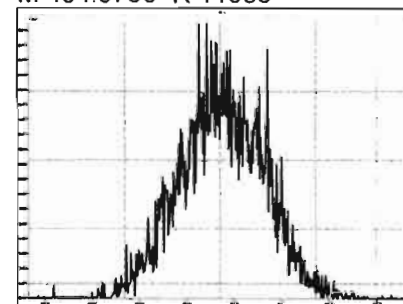
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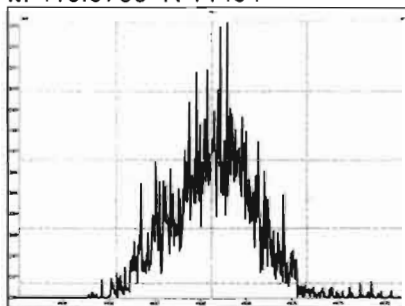


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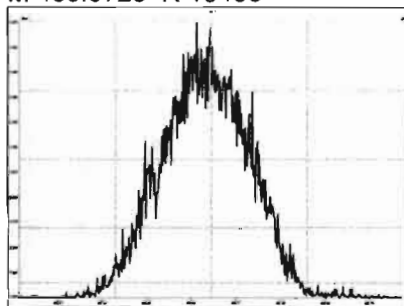


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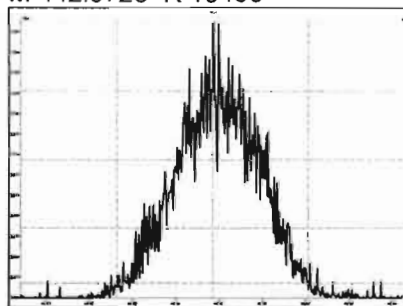
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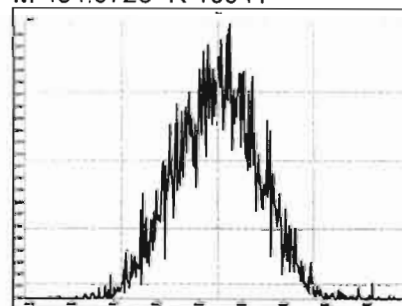
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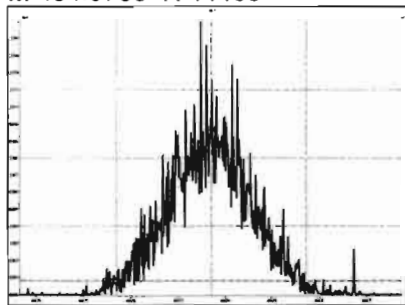
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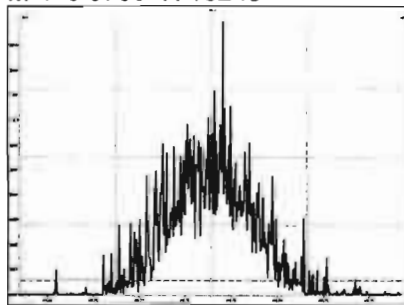
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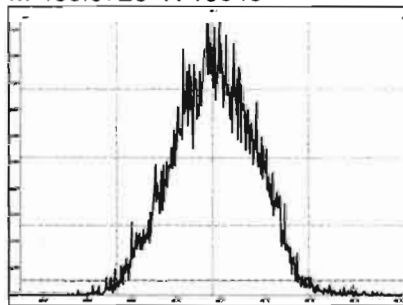
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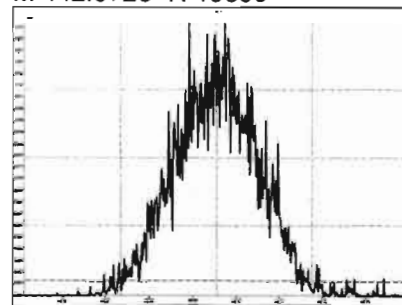
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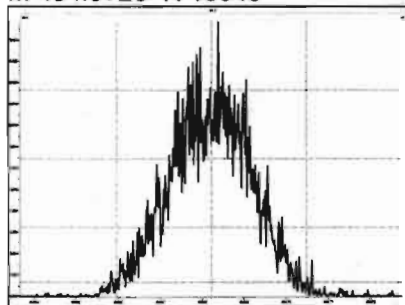
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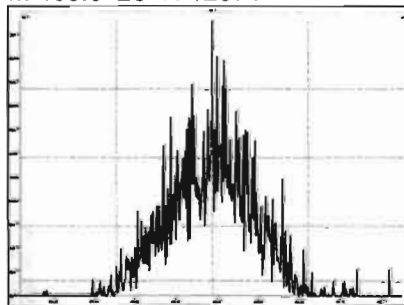
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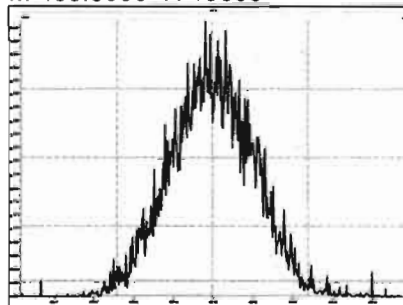
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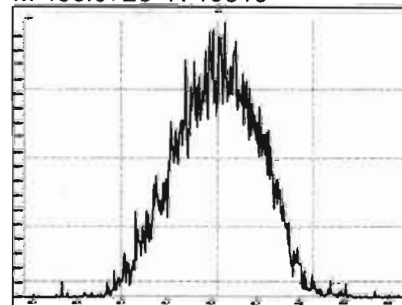
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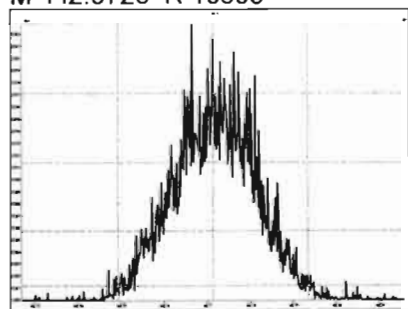


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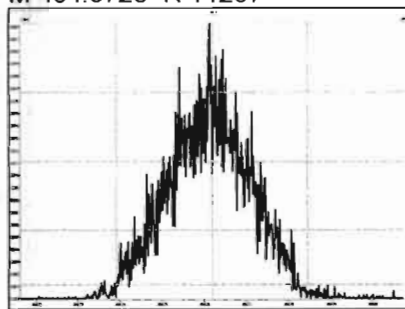


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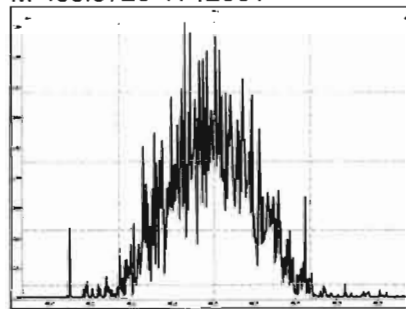
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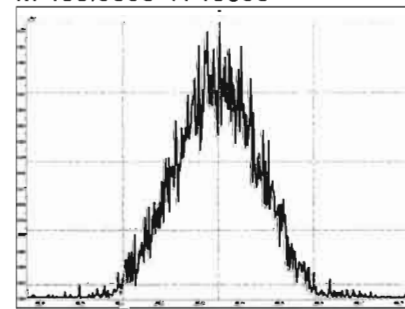
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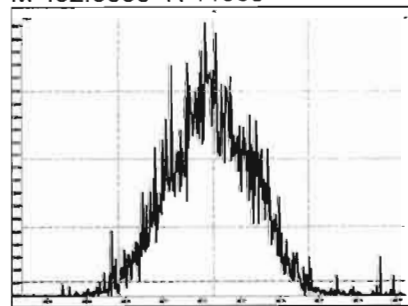
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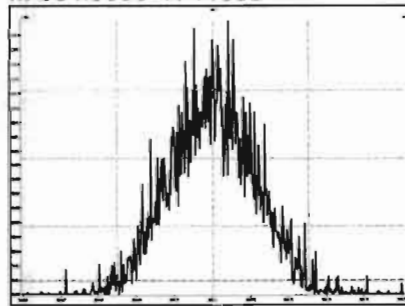
M 480.9696 R 10396



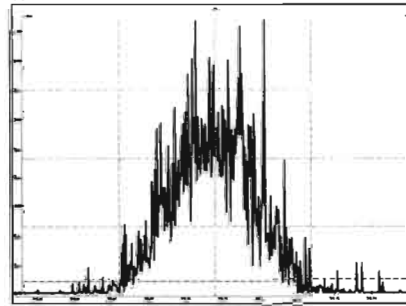
M 492.9696 R 11350



M 504.9696 R 11363



M 516.9697 R 12502



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Reg. Calibration ID: ST200107R2-1

Reviewed By: CJ 07/08/2020
Initials & Date

End Calibration ID: NA

	<u>Reg.</u>	<u>End</u>		<u>Reg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Integrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%		<input type="checkbox"/> <u>NA</u>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> <u>NA</u>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments: 		
Correct ICAL referenced?	<u>GRB</u>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> <u>(Y)</u>	<input type="checkbox"/> <u>N</u>			
- Bottle position verified?		<u>GRB</u>			

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-1.qld

Last Altered: Tuesday, July 07, 2020 1:53:33 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:53:59 PM Pacific Daylight Time

GRB 07/07/2020

CT 07/08/2020

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	ny	RF	Pred RT	RT	RT Flag	Pred RT	RT	Area	Height	ID
1	2,3,7,8-TCDD	4.40e4	5.28e5	0.72	NO	0.888	26.49	26.48	NO	1.001	1.001	9.3724	93.7	NO
2	1,2,3,7,8-PeCDD	1.53e5	3.74e5	0.61	NO	0.908	31.46	31.45	NO	1.001	1.000	45.033	90.1	NO
3	1,2,3,4,7,8-HxCDD	1.19e5	2.47e5	1.25	NO	1.03	34.84	34.84	NO	1.000	1.000	46.835	93.7	NO
4	1,2,3,6,7,8-HxCDD	1.52e5	3.32e5	1.36	NO	0.892	34.93	34.94	NO	1.000	1.000	51.451	103	NO
5	1,2,3,7,8,9-HxCDD	1.11e5	2.63e5	1.21	NO	0.887	35.24	35.23	NO	1.001	1.001	47.559	95.1	NO
6	1,2,3,4,6,7,8-HpCDD	8.55e4	2.03e5	1.01	NO	0.864	38.78	38.79	NO	1.000	1.001	48.684	97.4	NO
7	OCDD	1.69e5	3.75e5	0.86	NO	0.914	41.78	41.79	NO	1.000	1.000	98.370	98.4	NO
8	2,3,7,8-TCDF	4.32e4	6.45e5	0.74	NO	0.751	25.60	25.59	NO	1.001	1.001	8.9195	89.2	NO
9	1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.50	NO	0.893	30.17	30.17	NO	1.001	1.001	47.402	94.8	NO
10	2,3,4,7,8-PeCDF	2.13e5	4.79e5	1.54	NO	0.935	31.15	31.15	NO	1.001	1.000	47.631	95.3	NO
11	1,2,3,4,7,8-HxCDF	1.24e5	2.88e5	1.21	NO	0.884	33.95	33.96	NO	1.000	1.000	48.561	97.1	NO
12	1,2,3,6,7,8-HxCDF	1.52e5	3.50e5	1.21	NO	0.889	34.08	34.08	NO	1.000	1.000	48.921	97.8	NO
13	2,3,4,6,7,8-HxCDF	1.39e5	3.11e5	1.22	NO	0.934	34.69	34.68	NO	1.001	1.000	47.830	95.7	NO
14	1,2,3,7,8,9-HxCDF	1.01e5	2.41e5	1.22	NO	0.871	35.60	35.59	NO	1.001	1.000	48.069	96.1	NO
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	0.99	NO	0.873	37.40	37.38	NO	1.001	1.001	48.684	97.4	NO
16	1,2,3,4,7,8,9-HpCDF	7.38e4	1.40e5	0.96	NO	1.01	39.32	39.33	NO	1.000	1.000	52.017	104	NO
17	OCDF	1.57e5	4.02e5	0.86	NO	0.806	41.97	41.98	NO	1.000	1.000	96.792	96.8	NO
18	13C-2,3,7,8-TCDD	5.28e5	4.62e5	0.76	NO	1.16	26.45	26.45	NO	1.025	1.026	96.991	99.0	NO
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5	0.62	NO	0.849	31.46	31.44	NO	1.219	1.219	95.444	95.4	NO
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.99e5	1.26	NO	0.779	34.82	34.83	NO	1.014	1.014	105.87	106	NO
21	13C-1,2,3,6,7,8-HxCDD	3.32e5	2.99e5	1.25	NO	1.02	34.92	34.93	NO	1.017	1.017	109.13	109	NO
22	13C-1,2,3,7,8,9-HxCDD	2.63e5	2.99e5	1.23	NO	0.903	35.23	35.21	NO	1.026	1.025	97.355	97.4	NO
23	13C-1,2,3,4,6,7,8-HpCDD	2.03e5	2.99e5	1.00	NO	0.689	38.77	38.77	NO	1.129	1.129	96.488	96.5	NO
24	13C-OCDD	3.75e5	2.99e5	0.88	NO	0.652	41.78	41.78	NO	1.216	1.216	192.14	96.1	NO
25	13C-2,3,7,8-TCDF	6.45e5	5.93e5	0.73	NO	1.08	25.56	25.57	NO	0.991	0.991	102.83	103	NO
26	13C-1,2,3,7,8-PeCDF	5.03e5	5.93e5	1.57	NO	0.838	30.17	30.15	NO	1.170	1.169	101.23	101	NO
27	13C-2,3,4,7,8-PeCDF	4.79e5	5.93e5	1.57	NO	0.817	31.15	31.13	NO	1.207	1.207	98.989	99.0	NO
28	13C-1,2,3,4,7,8-HxCDF	2.88e5	2.99e5	0.50	NO	1.01	33.95	33.95	NO	0.989	0.989	95.473	95.5	NO
29	13C-1,2,3,6,7,8-HxCDF	3.50e5	2.99e5	0.50	NO	1.17	34.07	34.07	NO	0.992	0.992	100.09	100	NO
30	13C-2,3,4,6,7,8-HxCDF	3.11e5	2.99e5	0.50	NO	1.02	34.65	34.67	NO	1.009	1.009	101.67	102	NO

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-1.qld

Last Altered: Tuesday, July 07, 2020 1:53:33 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:53:59 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Area	Area Ratio	RA	Qty	RRF	Pred.RT	RT	RT Flag	Area	Area Ratio	Conc.	Conc. Ratio	Std. Dev.
31	13C-1,2,3,7,8,9-HxCDF	2.41e5	2.99e5	0.48	NO	0.860	35.58	35.58	NO	1.036	1.036	93.515	93.5	NO
32	13C-1,2,3,4,6,7,8-HpCDF	2.22e5	2.99e5	0.43	NO	0.774	37.36	37.36	NO	1.088	1.088	95.568	95.6	NO
33	13C-1,2,3,4,7,8,9-HpCDF	1.40e5	2.99e5	0.45	NO	0.521	39.33	39.32	NO	1.145	1.145	89.794	89.8	NO
34	13C-OCDF	4.02e5	2.99e5	0.87	NO	0.746	41.97	41.97	NO	1.222	1.222	160.03	90.0	NO
35	37Cl-2,3,7,8-TCDD	4.46e4	4.62e5			1.04	26.47	26.48	NO	1.026	1.027	9.3171	93.2	NO
36	13C-1,2,3,4-TCDD	4.62e5	4.62e5	0.77	NO	1.00	25.74	25.80	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	5.93e5	5.93e5	0.78	NO	1.00	24.03	24.10	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	2.99e5	2.99e5	0.50	NO	1.00	34.29	34.35	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Wednesday, July 08, 2020 7:10:35 AM Pacific Daylight Time
Printed: Wednesday, July 08, 2020 7:10:40 AM Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21
Calibration: U:\VG12.PRO\CurveDB\vb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

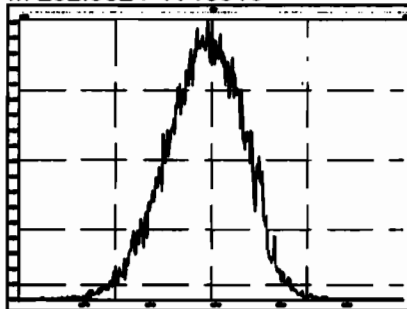
Compound name: 2,3,7,8-TCDD

Name	ID	Abq.Date	Abq.Time
200707R2_1	ST200707R2_1 1613 CS3 19L2305	07-Jul-20	12:59:11
200707R2_2	B0F0283-BS1 OPR 1	07-Jul-20	13:47:43
200707R2_3	B0F0280-BS1 OPR 10	07-Jul-20	14:34:04
200707R2_4	SOLVENT BLANK	07-Jul-20	15:19:31
200707R2_5	B0F0283-BLK1 Method Blank 1	07-Jul-20	16:04:56
200707R2_6	B0F0280-BLK1 Method Blank 10	07-Jul-20	16:50:19
200707R2_7	2001274-02 Field Blank 177-06Jun2020 0.948...	07-Jul-20	17:35:44
200707R2_8	2001274-04 Field Blank 919-06Jun 2020 0.94...	07-Jul-20	18:21:08
200707R2_9	2001274-06 Field Blank ATG160-06Jun2020 0...	07-Jul-20	19:08:31
200707R2_10	2001347-01 Bleach Plant Effluent 0.84451	07-Jul-20	19:51:55
200707R2_11	2001274-01 177-06Jun2020 0.9589	07-Jul-20	20:37:19
200707R2_12	2001274-03 919-06Jun2020 0.94562	07-Jul-20	21:22:42
200707R2_13	2001274-05 ATG160-06Jun2020 1.03714	07-Jul-20	22:08:08
200707R2_14	2001155-01 PDI-1175SC-A-01-02-200522 11.08	07-Jul-20	22:53:30
200707R2_15	2001035-01RE1 PDI-050SC-A-00-01-200508 ...	07-Jul-20	23:38:54

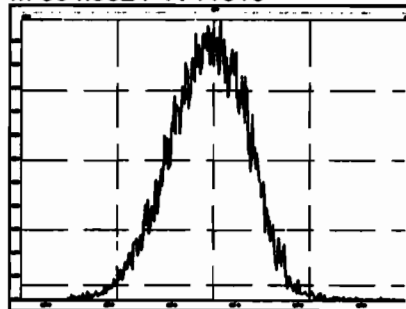
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, July 07, 2020 12:55:21 Pacific Daylight Time

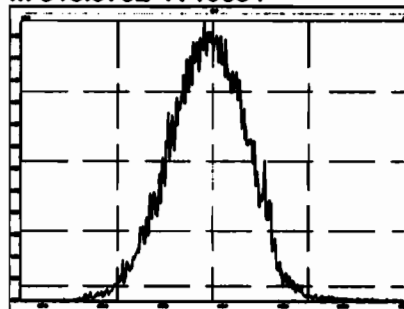
M 292.9824 R 10916



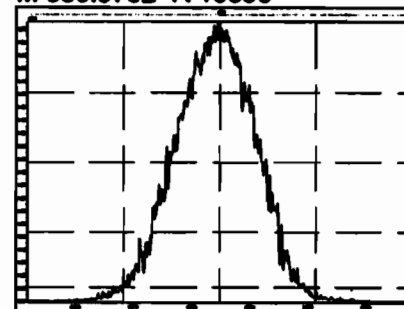
M 304.9824 R 11010



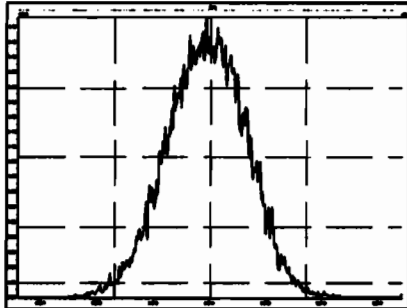
M 318.9792 R 10684



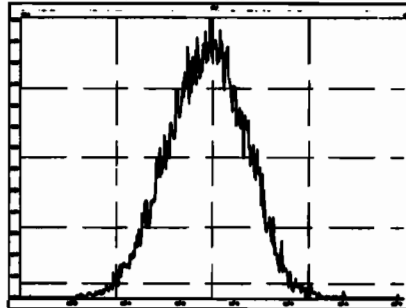
M 330.9792 R 10596



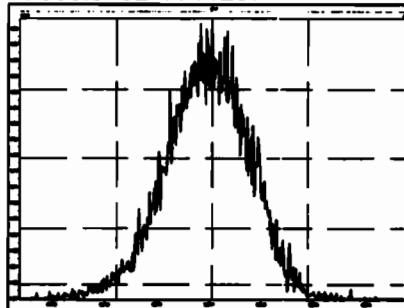
M 342.9792 R 10639



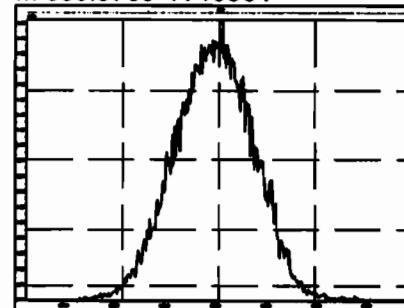
M 354.9792 R 10968



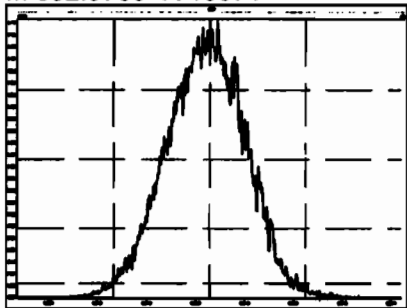
M 366.9792 R 11207



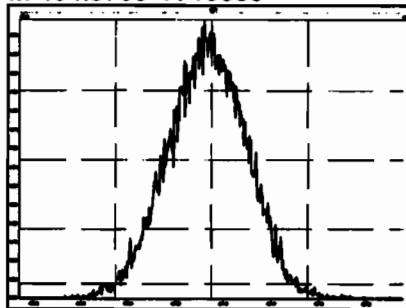
M 380.9760 R 10964



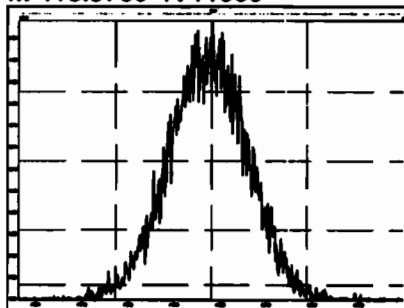
M 392.9760 R 10871



M 404.9760 R 10638



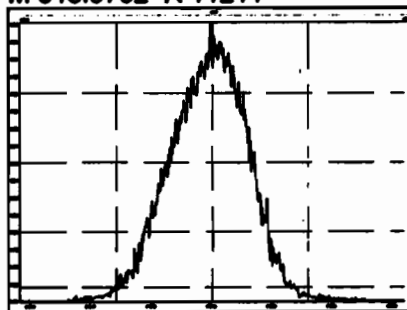
M 416.9760 R 11060



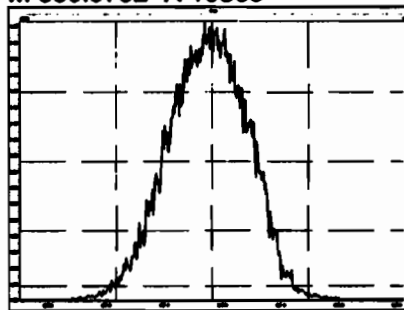
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, July 07, 2020 12:55:46 Pacific Daylight Time

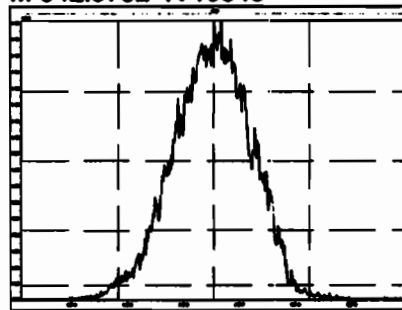
M 318.9792 R 11211



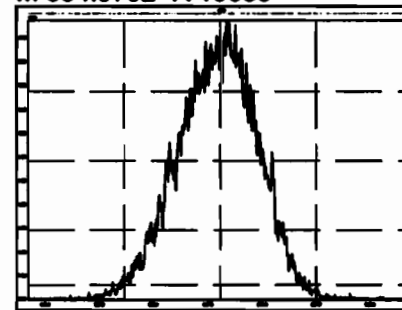
M 330.9792 R 10868



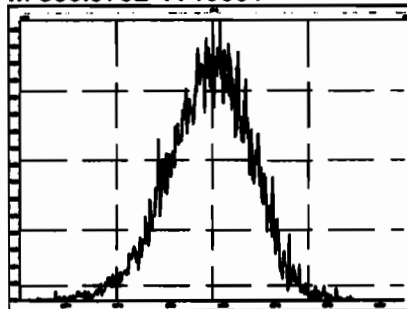
M 342.9792 R 10545



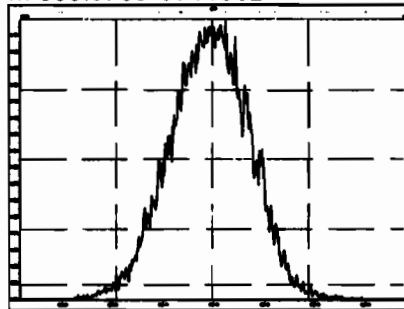
M 354.9792 R 10683



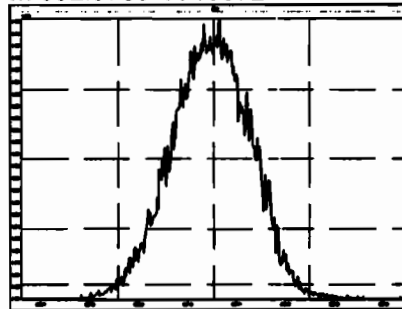
M 366.9792 R 10501



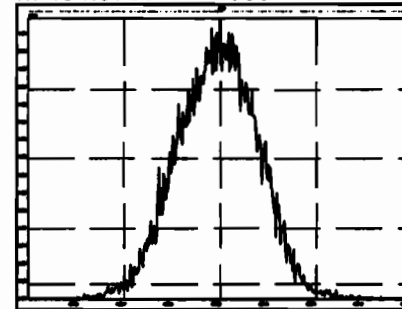
M 380.9760 R 11062



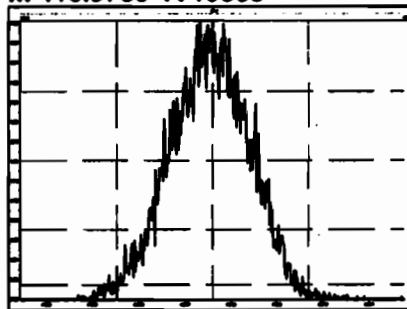
M 392.9760 R 10872



M 404.9760 R 11009



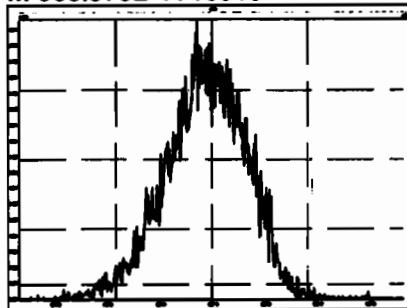
M 416.9760 R 10868



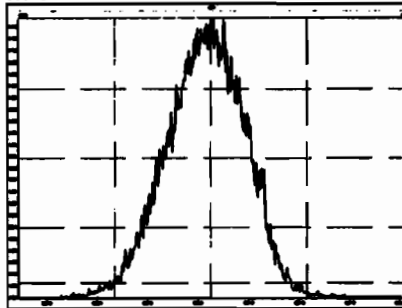
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, July 07, 2020 12:56:08 Pacific Daylight Time

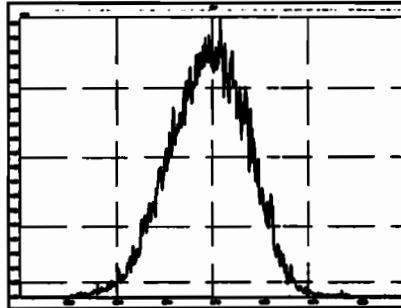
M 366.9792 R 10919



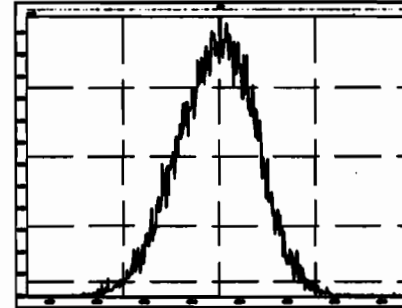
M 380.9760 R 10776



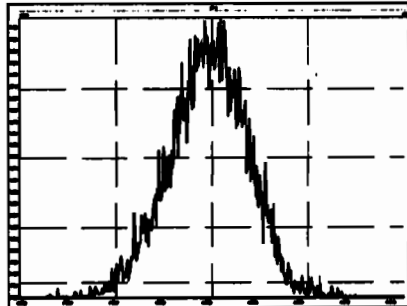
M 392.9760 R 10637



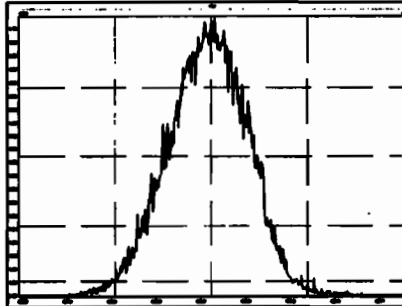
M 404.9760 R 10684



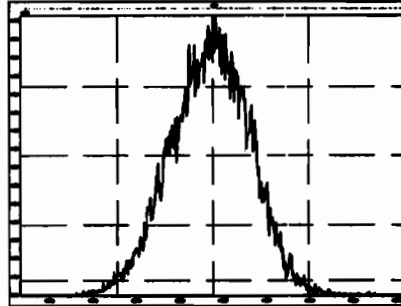
M 416.9760 R 10872



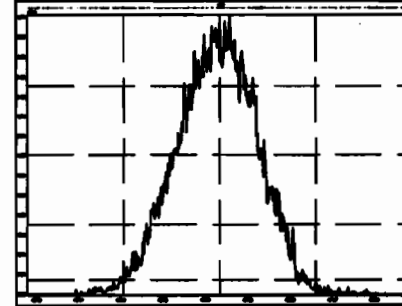
M 430.9728 R 10591



M 442.9728 R 10638



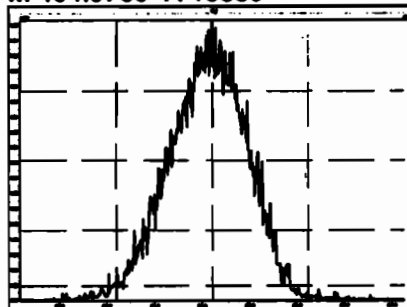
M 454.9728 R 11158



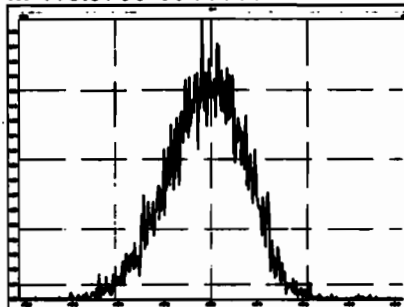
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Printed: Tuesday, July 07, 2020 12:56:27 Pacific Daylight Time

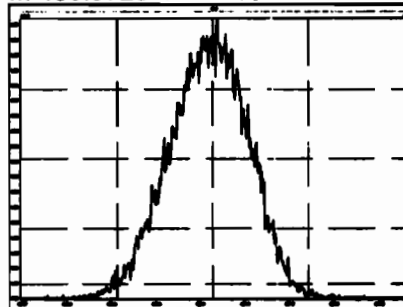
M 404.9760 R 10550



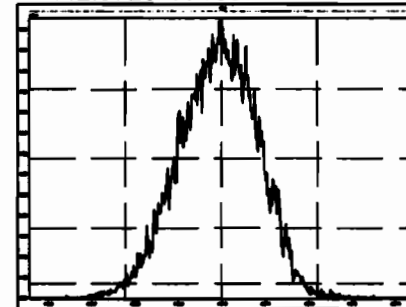
M 416.9760 R 11111



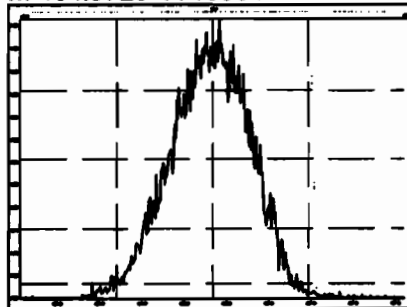
M 430.9728 R 11159



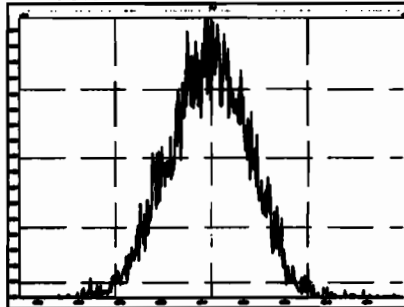
M 442.9728 R 10965



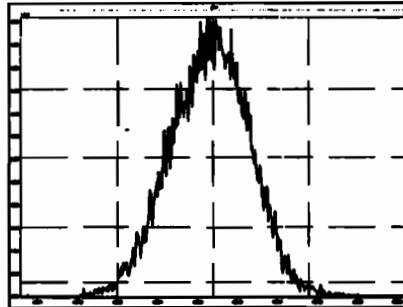
M 454.9728 R 10964



M 466.9728 R 10966



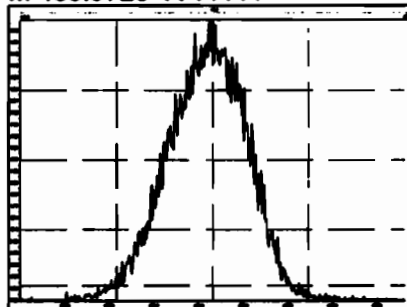
M 480.9696 R 10775



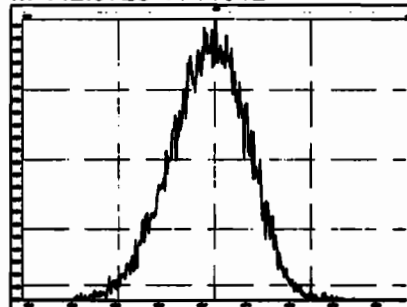
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Printed: Tuesday, July 07, 2020 12:56:43 Pacific Daylight Time

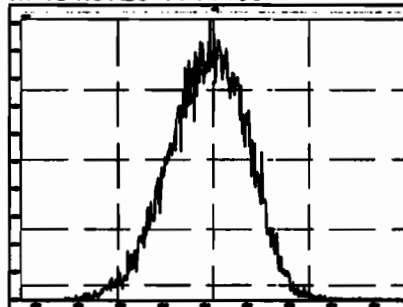
M 430.9728 R 11111



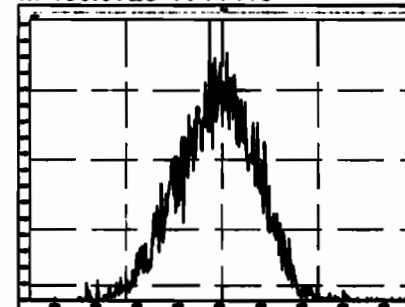
M 442.9728 R 11012



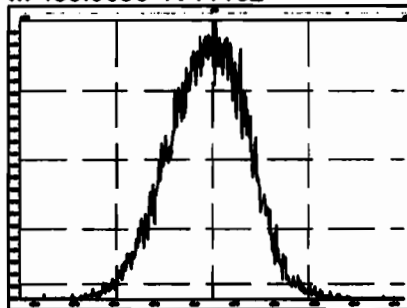
M 454.9728 R 11465



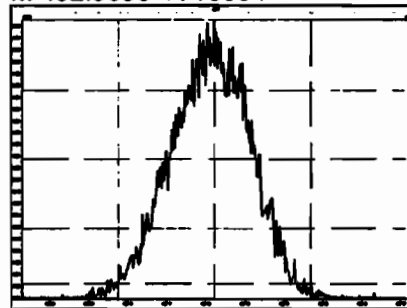
M 466.9728 R 11415



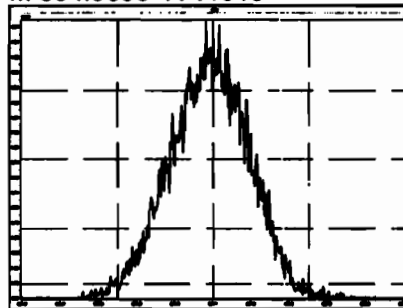
M 480.9696 R 11162



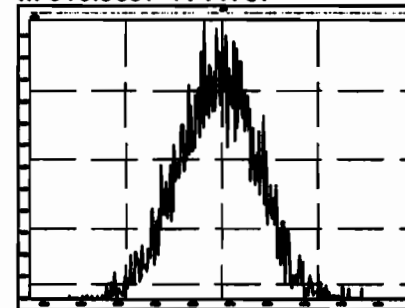
M 492.9696 R 10684



M 504.9696 R 11015



M 516.9697 R 11737



Dataset: Untitled

Last Altered: Tuesday, July 07, 2020 1:46:38 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:46:59 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\vb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	
1	1,3,6,8-TCDD (First)	22.44
2	1,2,8,9-TCDD (Last)	27.44
3	1,2,4,7,9-PeCDD (First)	29.22
4	1,2,3,8,9-PeCDD (Last)	31.83
5	1,2,4,6,7,9-HxCDD (First)	33.33
6	1,2,3,7,8,9-HxCDD (Last)	35.23
7	1,2,3,4,6,7,9-HpCDD (First)	37.78
8	1,2,3,4,6,7,8-HpCDD (Last)	38.79
9	1,3,6,8-TCDF (First)	20.33
10	1,2,8,9-TCDF (Last)	27.59
11	1,3,4,6,8-PeCDF (First)	27.55
12	1,2,3,8,9-PeCDF (Last)	32.09
13	1,2,3,4,6,8-HxCDF (First)	32.78
14	1,2,3,7,8,9-HxCDF (Last)	35.59
15	1,2,3,4,6,7,8-HpCDF (First)	37.38
16	1,2,3,4,7,8,9-HpCDF (Last)	39.33

Dataset: Untitled

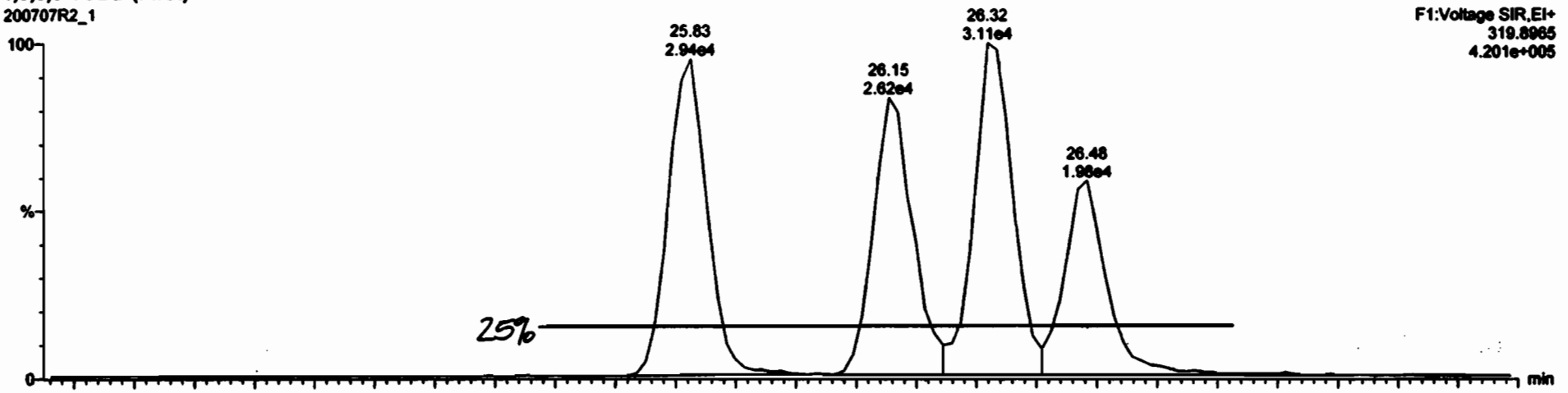
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Printed: Tuesday, July 07, 2020 1:46:59 PM Pacific Daylight Time

GRB 07/07/2020

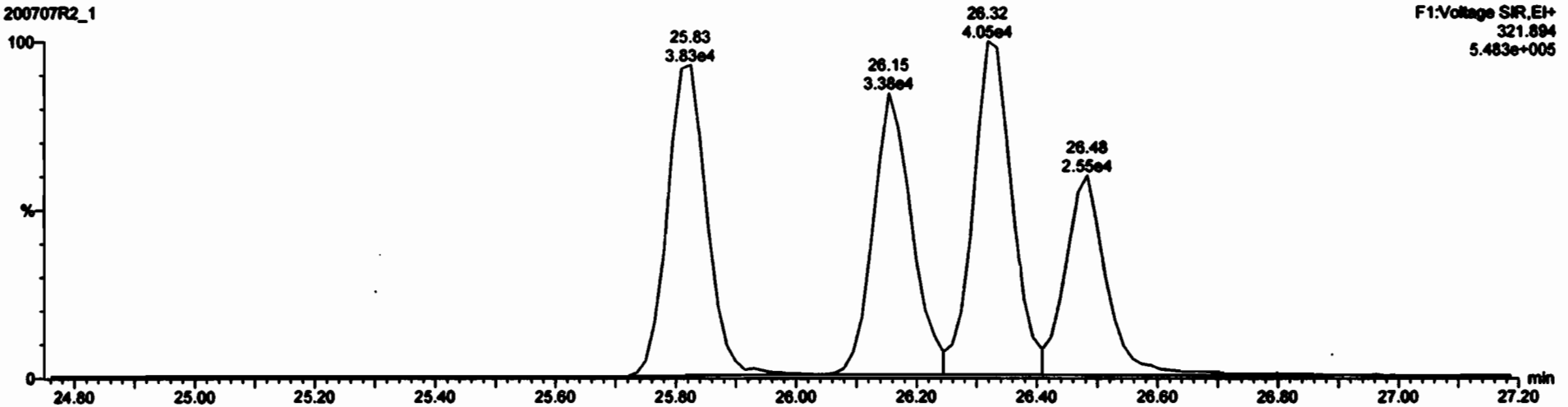
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200707R2_1



200707R2_1



Dataset: Untitled

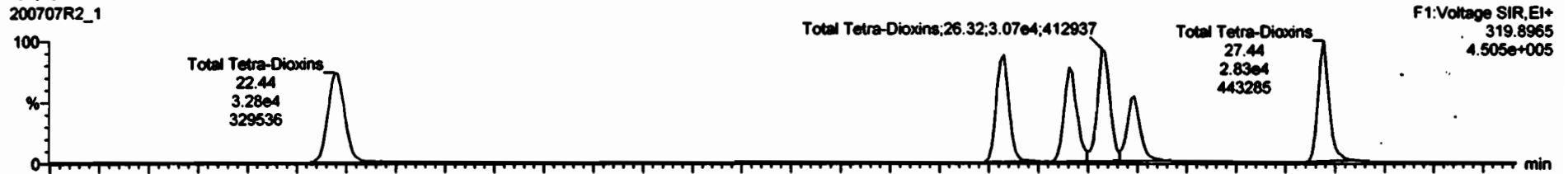
Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613_rtt-7-3-20.mdb 03 Jul 2020 12:13:21
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

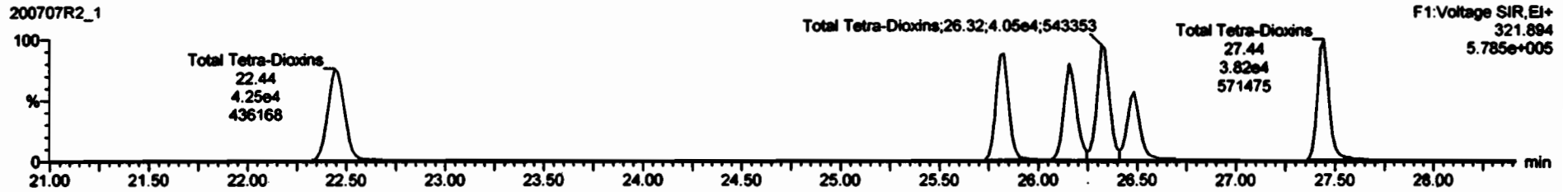
Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200707R2_1

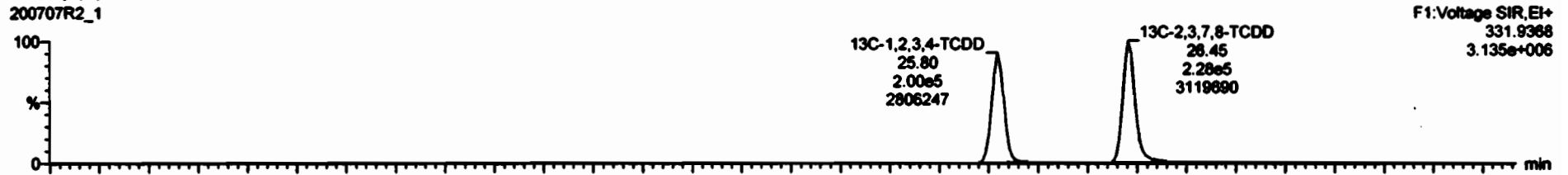


200707R2_1

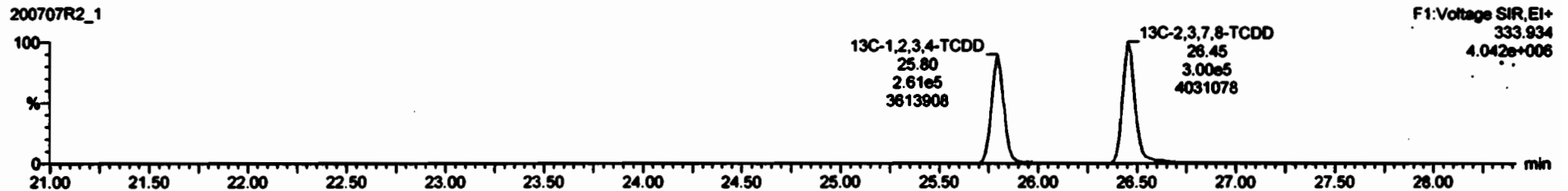


13C-2,3,7,8-TCDD

200707R2_1



200707R2_1

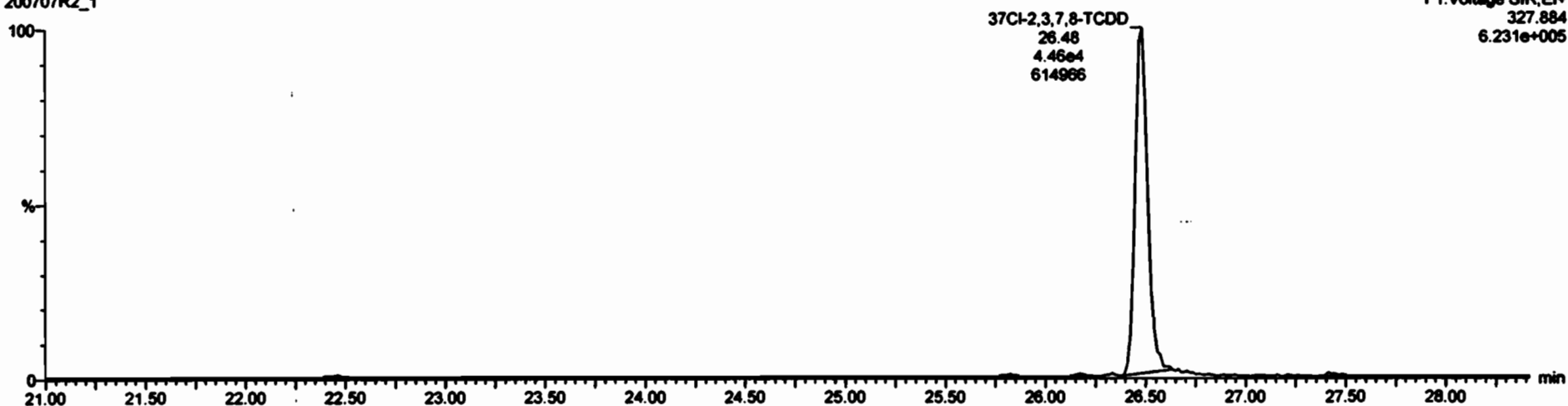


Dataset: Untitled

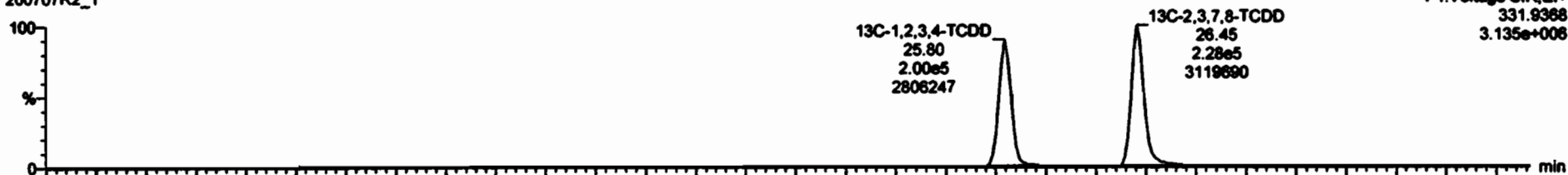
Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

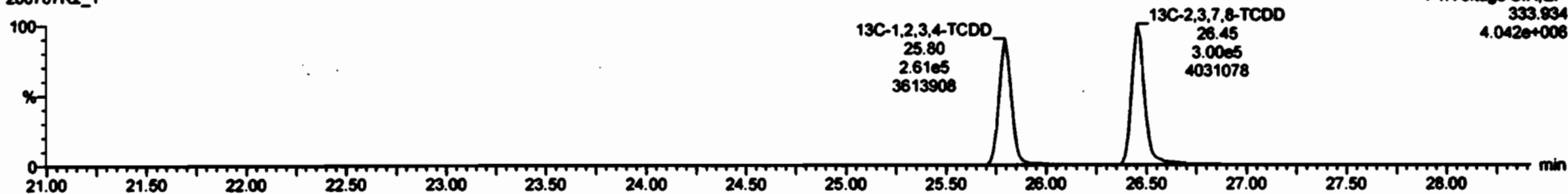
37Cl-2,3,7,8-TCDD
200707R2_1



13C-1,2,3,4-TCDD
200707R2_1



200707R2_1



Dataset: Untitled

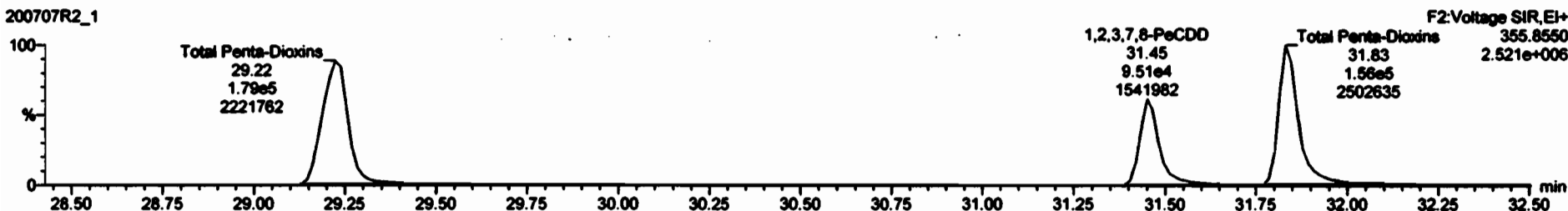
Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD
200707R2_1



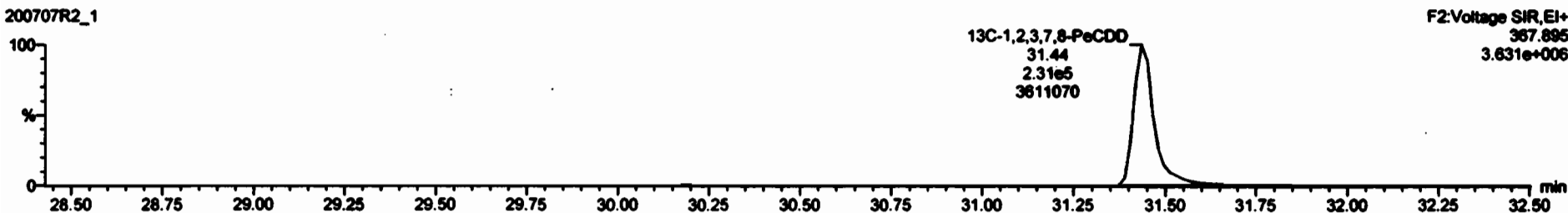
200707R2_1



13C-1,2,3,7,8-PeCDD
200707R2_1



200707R2_1



Dataset: Untitled

Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

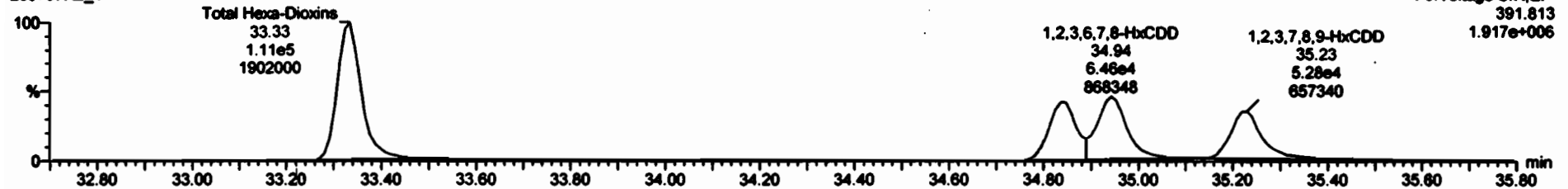
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1,2,3,4,7,8-HxCDD

200707R2_1



200707R2_1

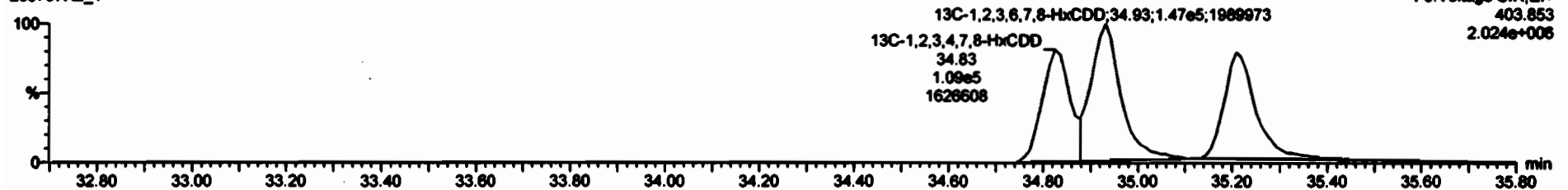


13C-1,2,3,4,7,8-HxCDD

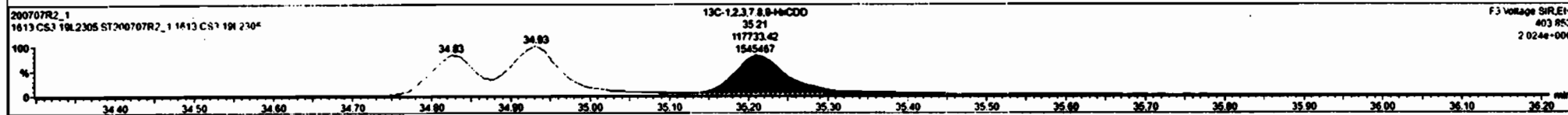
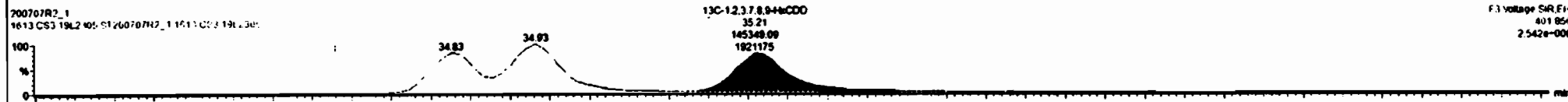
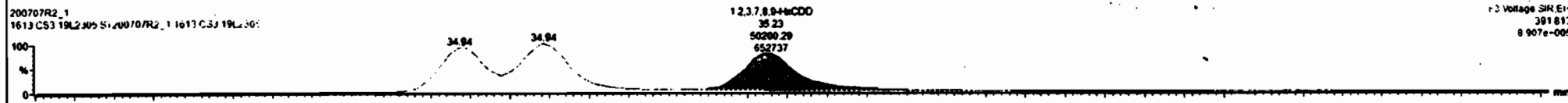
200707R2_1



200707R2_1



Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	
1	12.3.7.8-TCDD	4.48e4	5.28e5	0.77	0.72	NO	0.0003	28.48	28.48	NO	1.001	1.001	0.37	93.7	NO							
2	12.3.7.8-PeCDD	1.53e5	3.74e5	0.83	0.81	NO	0.0001	31.48	31.48	NO	1.001	1.000	45.9	96.1	NO							
3	12.3.4.7.8-HxCDD	1.18e5	2.47e5	1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	46.8	93.7	NO							
4	12.3.6.7.8-HxCDD	1.52e5	3.32e5	1.24	1.38	NO	0.0023	34.95	34.94	NO	1.000	1.000	51.5	103	NO							
6	12.3.4.6.7.8-HxCDD	8.94e4	2.18e5	1.04	1.01	NO	0.0030	36.78	36.79	NO	1.000	1.001	49.3	96.6	NO							
7	OCDD	1.74e5	3.81e5	0.88	0.88	NO	0.0130	41.78	41.78	NO	1.000	1.000	99.0	99.0	NO							
8	2.3.7.8-TCDF	4.32e4	6.45e5	0.77	0.74	NO	0.7510	28.99	28.99	NO	1.001	1.001	0.82	89.2	NO							
9	12.3.7.8-PeCDF	2.13e5	5.03e5	1.55	1.50	NO	0.0025	30.17	30.17	NO	1.001	1.001	47.4	94.8	NO							
10	2.3.4.7.8-PeCDF	2.13e5	4.78e5	1.55	1.54	NO	0.0348	31.15	31.15	NO	1.001	1.000	47.6	95.3	NO							
11	12.3.4.7.8-HxCDF	1.24e5	2.88e5	1.24	1.21	NO	0.0046	33.96	33.96	NO	1.000	1.000	48.8	97.1	NO							
12	12.3.6.7.8-HxCDF	1.57e5	3.50e5	1.24	1.22	NO	0.0002	34.88	34.88	NO	1.000	1.000	50.6	101	NO							
13	2.3.4.6.7.8-HxCDF	1.41e5	3.11e5	1.24	1.24	NO	0.0341	34.88	34.88	NO	1.001	1.000	48.8	97.3	NO							
14	12.3.7.8-HxCDF	1.88e5	2.48e5	1.24	1.22	NO	0.0707	35.88	35.90	NO	1.001	1.000	49.0	97.9	NO							
15	12.3.4.6.7.8-HxCDF	9.42e4	2.22e5	1.04	0.99	NO	0.0734	37.40	37.38	NO	1.001	1.001	48.7	97.4	NO							
16	12.3.4.7.8-HxCDF	7.38e4	1.40e5	1.04	0.98	NO	1.0428	38.32	38.33	NO	1.000	1.000	52.0	104	NO							
17	OCDF	1.58e5	4.07e5	0.88	0.83	NO	0.0005	41.87	41.86	NO	1.000	1.000	95.4	95.4	NO							
18	13C-2.3.7.8-TCDD	5.28e5	4.82e5	0.77	0.76	NO	1.1583	28.45	28.45	NO	1.025	1.025	98.0	98.0	NO							
19	13C-12.3.7.8-PeCDD	3.74e5	4.82e5	0.83	0.82	NO	0.0490	31.48	31.44	NO	1.219	1.219	95.4	95.4	NO							
20	13C-12.3.4.7.8-HxCDD	2.47e5	2.88e5	1.24	1.28	NO	0.7700	34.82	34.83	NO	1.014	1.014	106	106	NO							
21	13C-12.3.6.7.8-HxCDD	3.32e5	2.90e5	1.24	1.25	NO	1.0167	34.92	34.93	NO	1.017	1.017	109	109	NO							



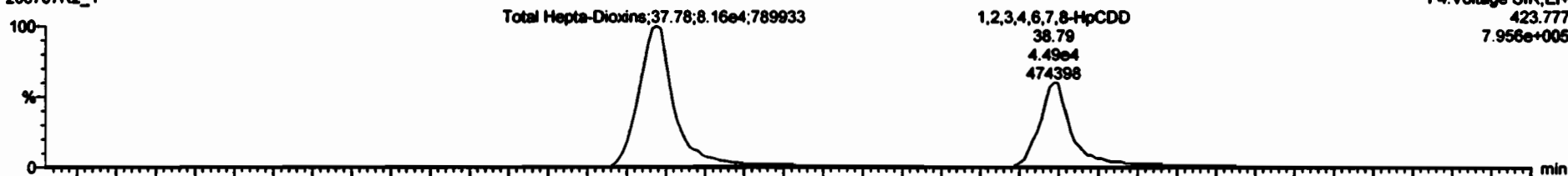
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Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

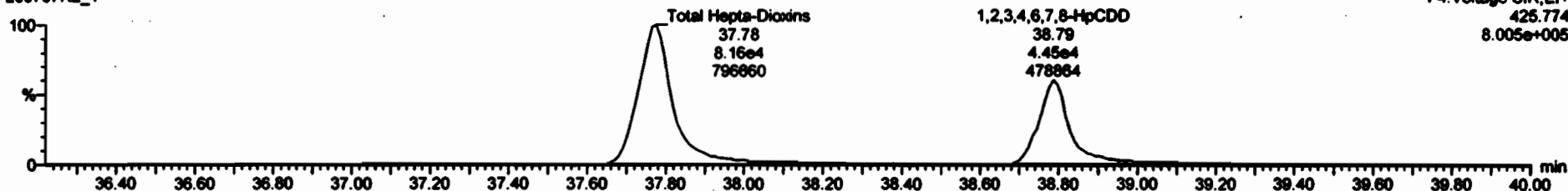
Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200707R2_1

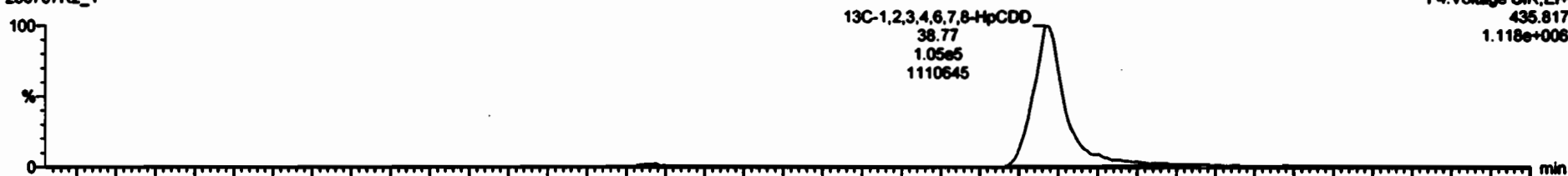


200707R2_1

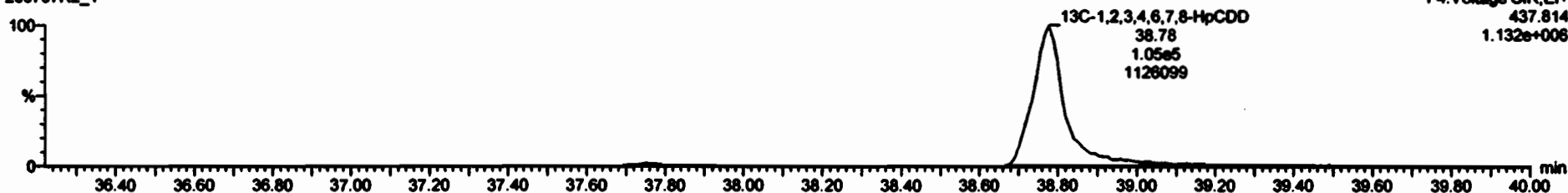


13C-1,2,3,4,6,7,8-HpCDD

200707R2_1



200707R2_1

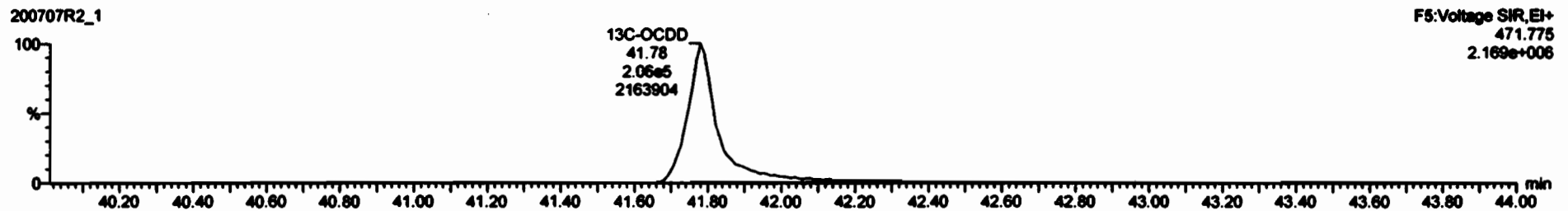
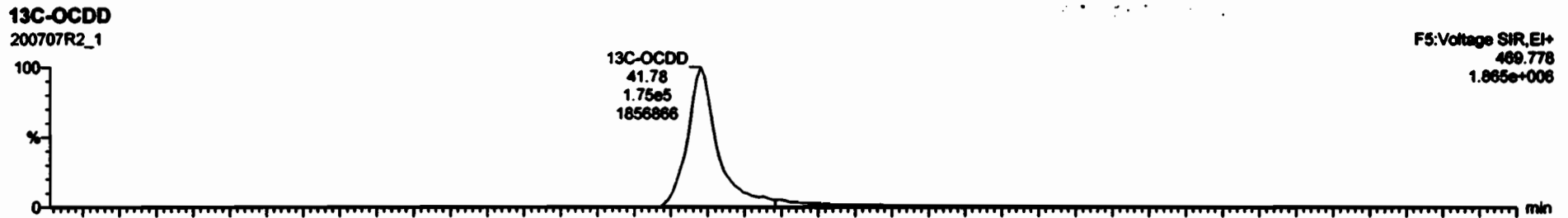
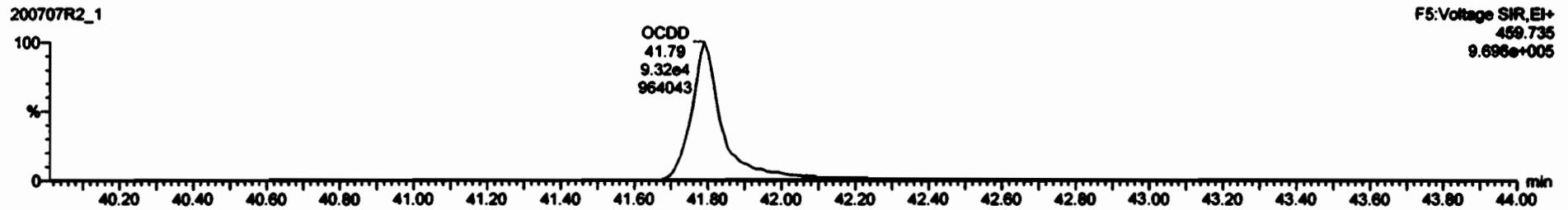
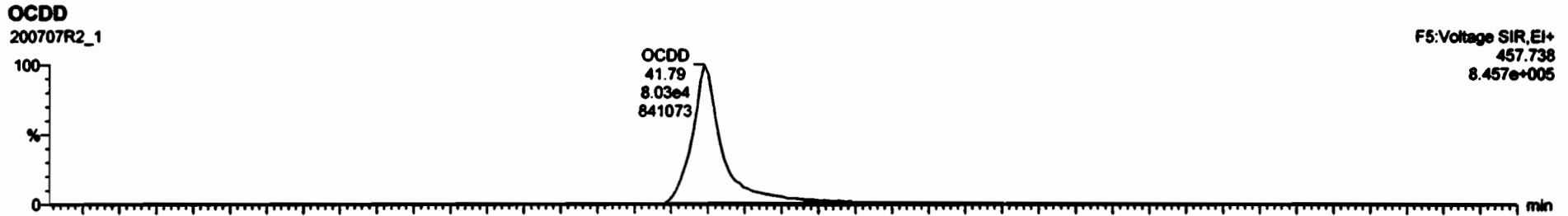


Dataset: Untitled

Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time

Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



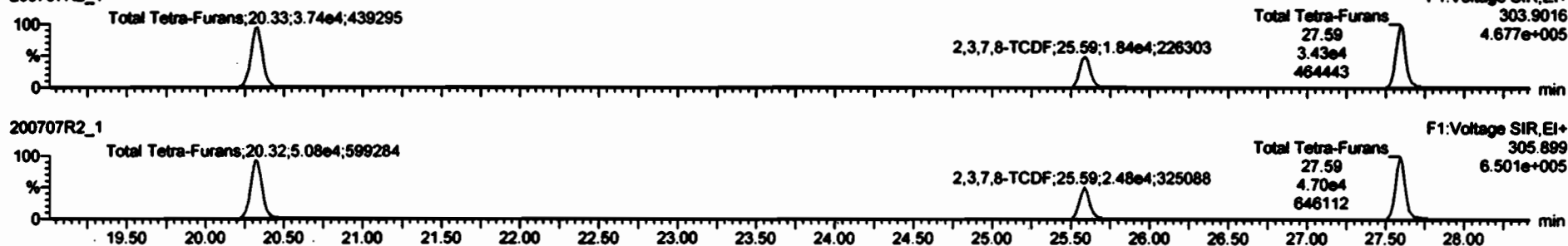
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Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

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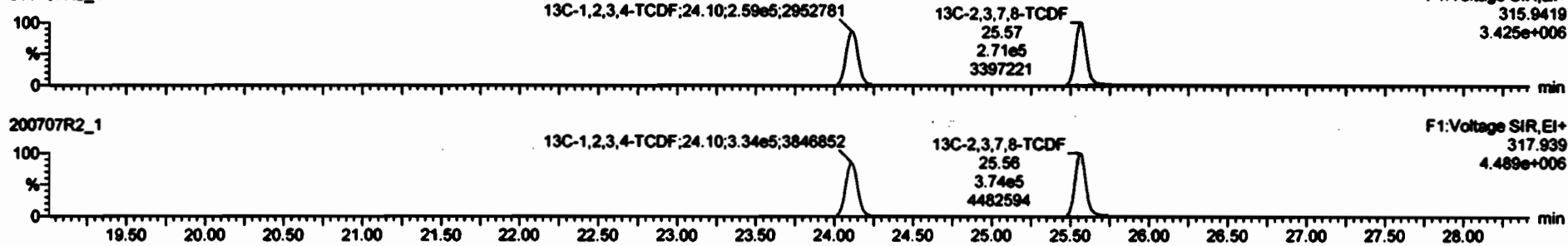
2,3,7,8-TCDF

200707R2_1



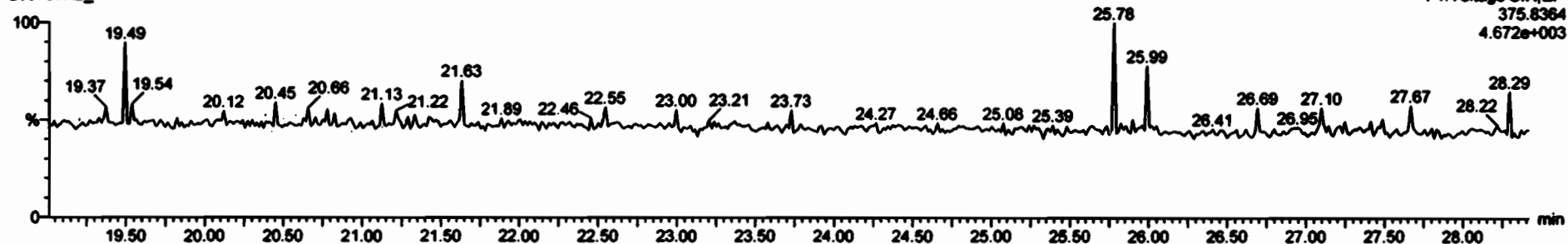
13C-2,3,7,8-TCDF

200707R2_1



DPE1

200707R2_1



Dataset: Untitled

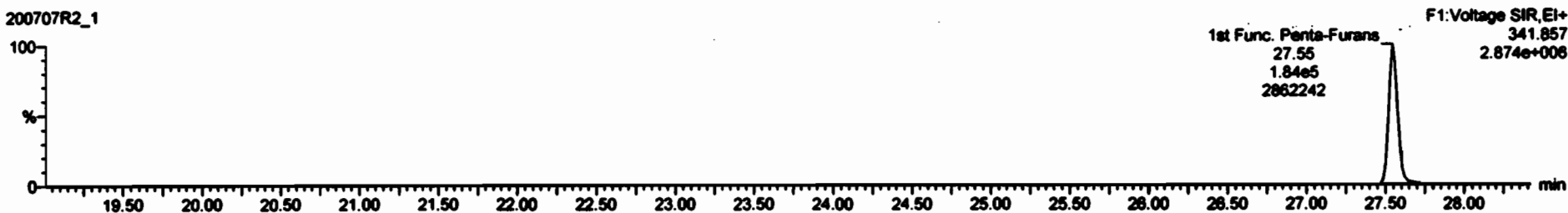
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Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans
200707R2_1

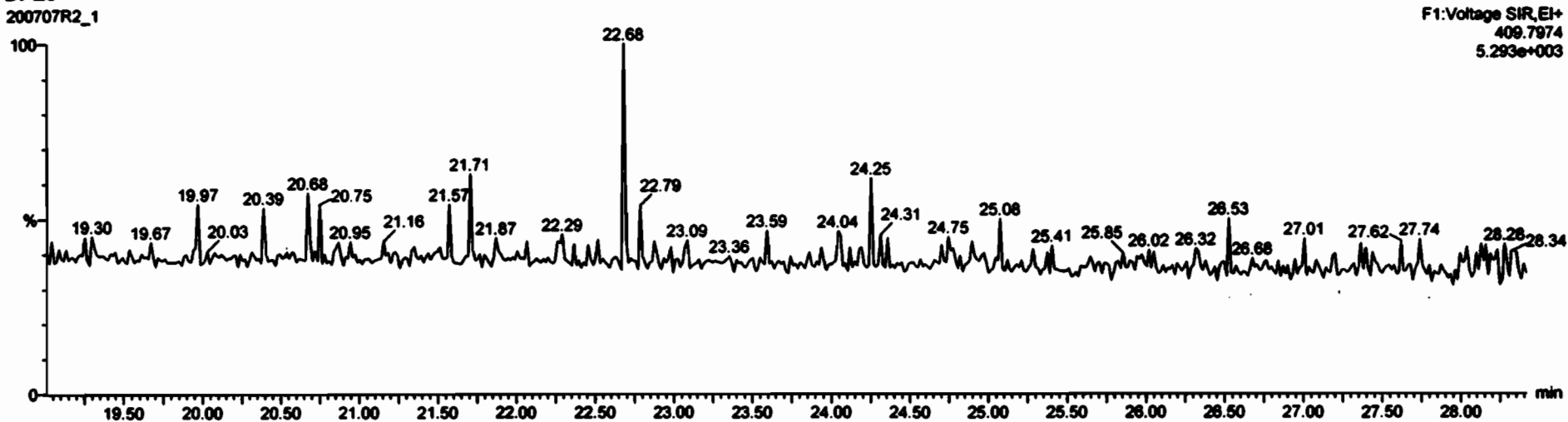


200707R2_1



DPES

200707R2_1

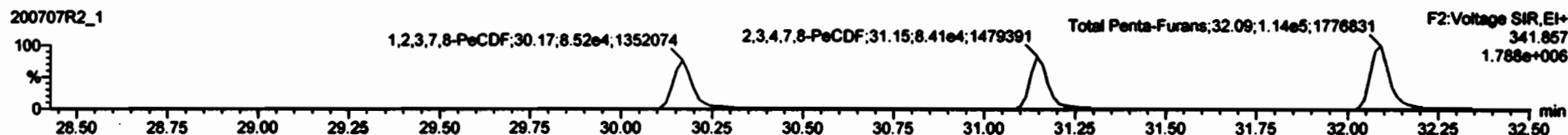
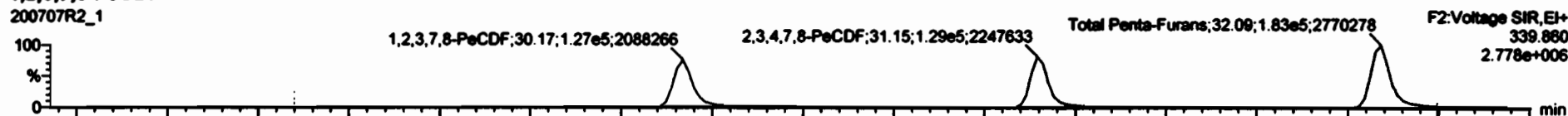


Dataset: Untitled

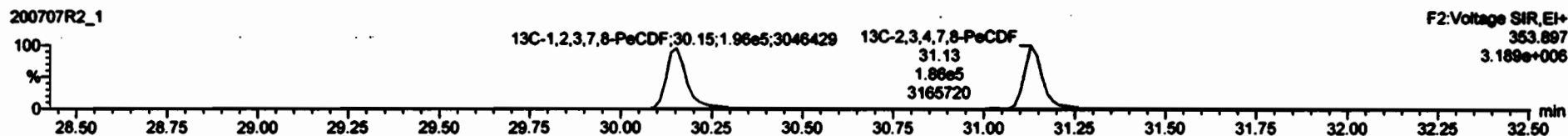
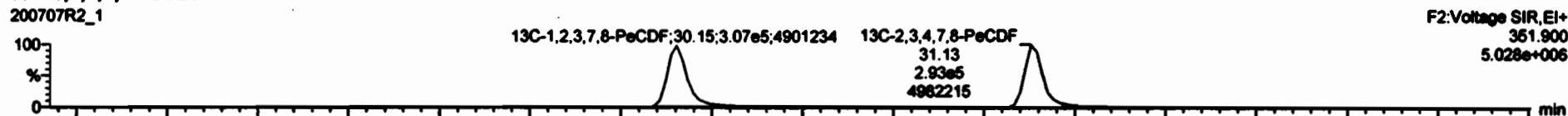
Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

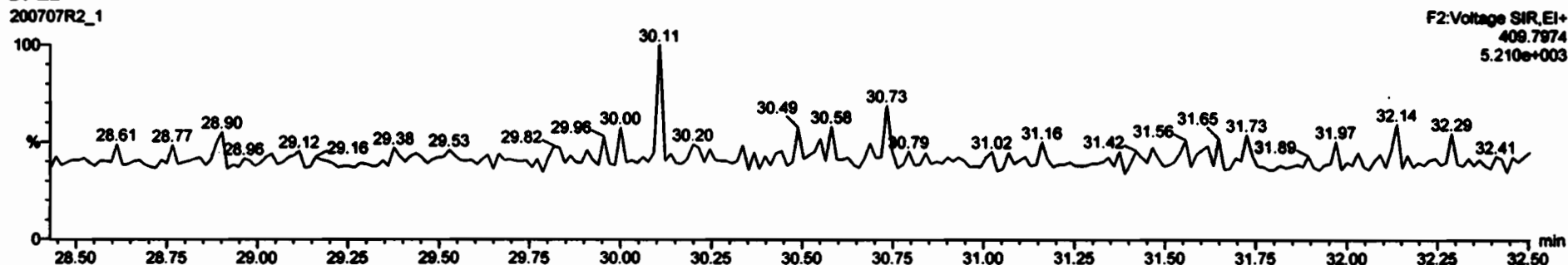
1,2,3,7,8-PeCDF



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



DPE2

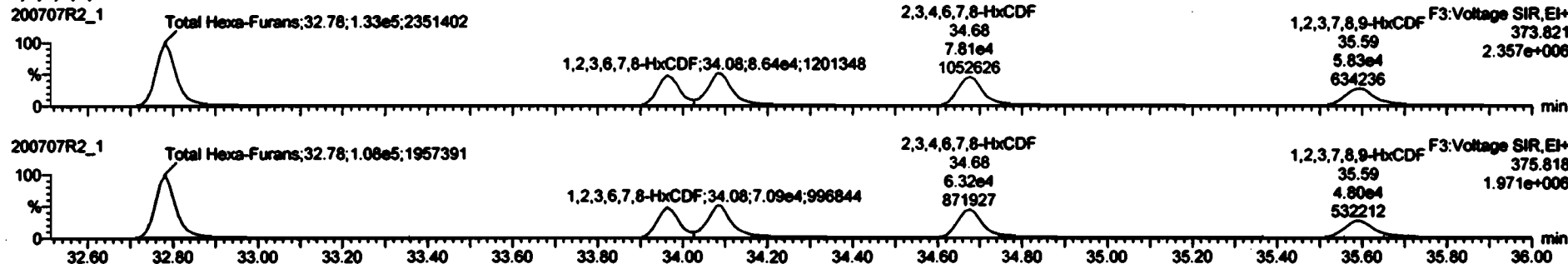


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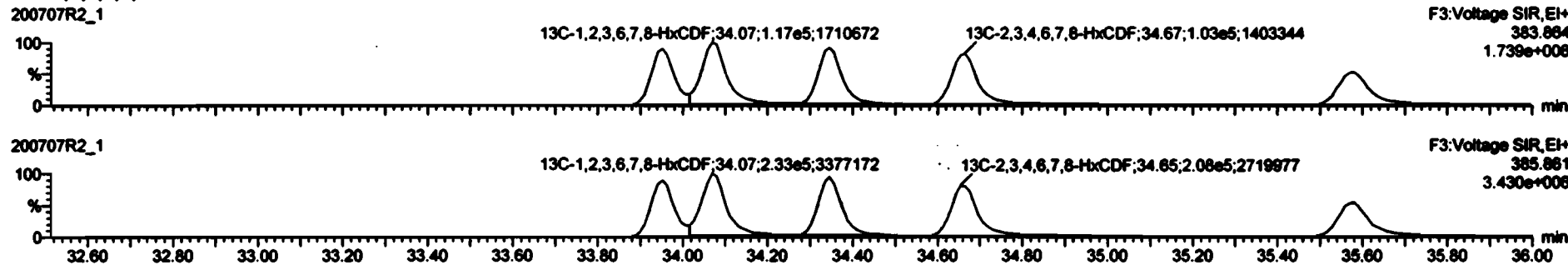
Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

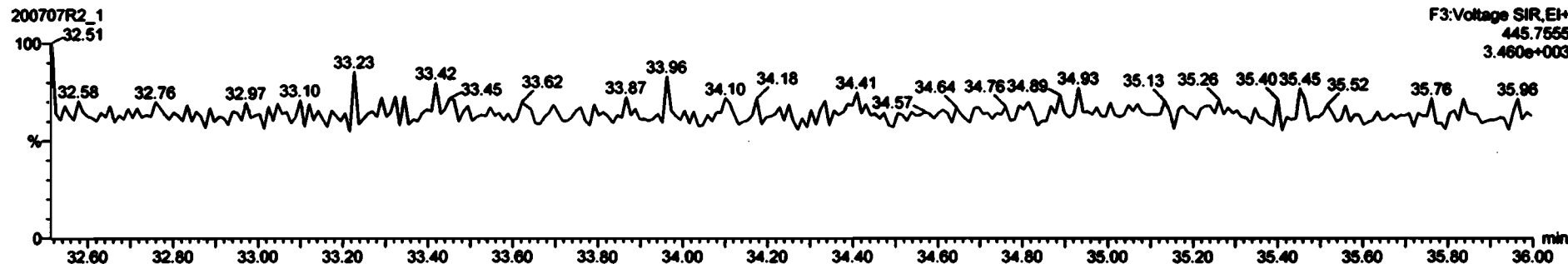
1,2,3,4,7,8-HxCDF



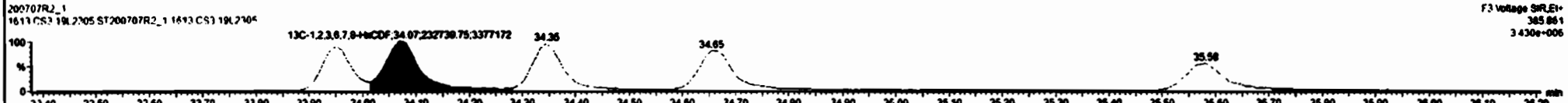
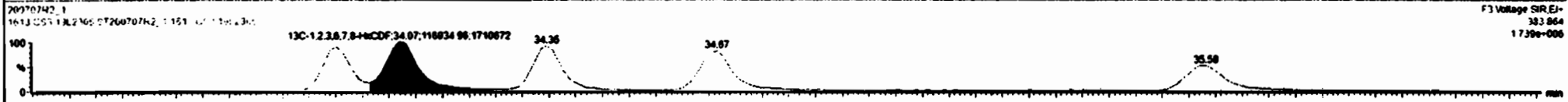
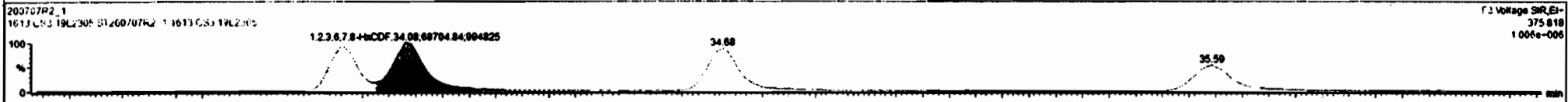
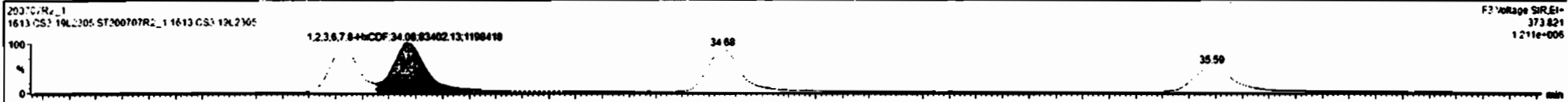
13C-1,2,3,4,7,8-HxCDF



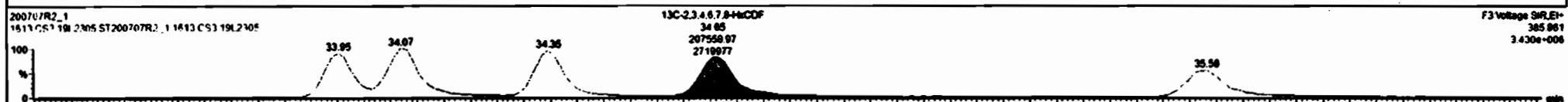
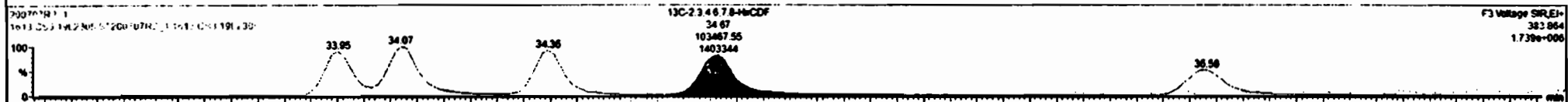
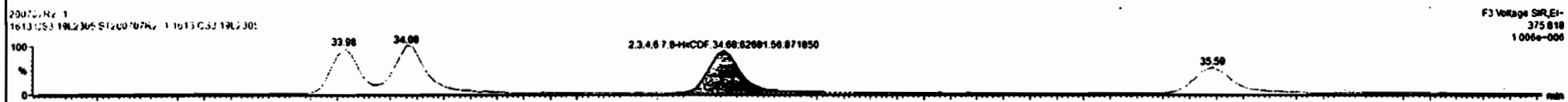
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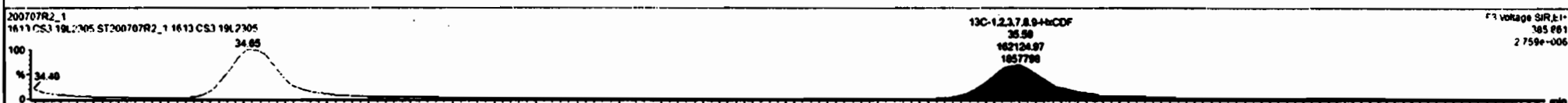
Peak	Retention	Area	Height	Width	Skew	Asym	Resolution	Signal	SNR	Quality	Integration	Integration	Integration	Integration
1	1.2,3,7,8-TCDD	4.48e4	5.28e5	0.77	0.72	NO	0.8883	28.48	28.48	NO	1.001	1.001	0.37	90.7
2	1,2,3,7,8-PeCDD	1.53e5	3.74e5	0.63	0.61	NO	0.8881	31.46	31.46	NO	1.001	1.000	45.0	90.1
3	1,2,3,4,7,8-HxCDD	1.18e5	2.47e5	1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	48.8	93.7
4	1,2,3,4,7,8-HxCDF	1.52e5	3.32e5	1.24	1.28	NO	0.8823	34.93	34.94	NO	1.000	1.000	51.5	103
5	1,2,3,7,8-HxCDD	1.11e5	2.63e5	1.24	1.21	NO	0.8880	35.24	35.23	NO	1.001	1.001	47.6	95.1
6	1,2,3,4,8,7,8-HpCDD	8.55e4	2.03e5	1.04	1.01	NO	0.8830	38.78	38.79	NO	1.000	1.001	48.7	97.4
7	OCDD	1.06e5	3.75e5	0.88	0.88	NO	0.9130	41.78	41.79	NO	1.000	1.000	98.4	98.4
8	2,3,7,8-TCDF	4.32e4	8.45e5	0.77	0.74	NO	0.7510	25.08	25.08	NO	1.001	1.001	8.82	89.2
9	1,2,3,7,8-PeCDF	2.13e5	6.03e5	1.55	1.50	NO	0.8825	38.17	38.17	NO	1.001	1.001	47.4	94.8
10	2,3,4,7,8-PeCDF	2.13e5	4.70e5	1.55	1.54	NO	0.9348	31.15	31.15	NO	1.001	1.000	47.6	95.3
11	1,2,3,4,7,8-HxCDF	1.24e5	2.88e5	1.24	1.21	NO	0.8846	33.86	33.86	NO	1.000	1.000	48.8	97.1
12														
13	2,3,4,6,7,8-HxCDF	1.41e5	3.11e5	1.24	1.24	NO	0.9341	34.88	34.88	NO	1.001	1.000	48.8	97.3
14	1,2,3,7,8-HxCDF	1.06e5	2.40e5	1.24	1.22	NO	0.8767	35.68	35.59	NO	1.001	1.000	49.9	97.9
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	1.04	0.99	NO	0.8734	37.48	37.38	NO	1.001	1.001	48.7	97.4
16	1,2,3,4,7,8,9-HpCDF	7.38e4	1.48e5	1.04	0.98	NO	1.0128	39.32	39.33	NO	1.000	1.000	52.0	104
17	OCDF	1.58e5	4.07e5	0.88	0.83	NO	0.8885	41.87	41.86	NO	1.000	1.000	95.4	95.4
18	13C-2,3,7,8-TCDD	5.28e5	4.62e5	0.77	0.78	NO	1.1583	28.45	28.46	NO	1.825	1.028	99.0	99.0
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5	0.63	0.62	NO	0.8480	31.46	31.44	NO	1.219	1.219	95.4	95.4
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.96e5	1.24	1.28	NO	0.7780	34.82	34.83	NO	1.014	1.014	106	106
21	13C-1,2,3,6,7,8-HxCDD	3.32e5	2.96e5	1.24	1.25	NO	1.0167	34.82	34.83	NO	1.017	1.017	109	109



Comp	Wt%	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%
1	2,3,7,8-TCDD	4.46e4	5.28e5	0.77	0.72	NO	0.0003	28.48	28.48	NO	1.001	1.001	0.37	83.7	NO				
2	1,2,3,7,8-PeCDD	1.53e5	3.74e6	0.63	0.61	NO	0.0001	31.46	31.46	NO	1.001	1.000	45.0	99.1	NO				
3	1,2,3,4,7,8-HxCDD	1.19e5	2.47e5	1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	46.8	93.7	NO				
4	1,2,3,6,7,8-HxCDD	1.52e5	3.33e5	1.24	1.26	NO	0.0023	34.93	34.94	NO	1.000	1.000	51.5	103	NO				
5	1,2,3,7,8-HxCDD	1.11e5	2.63e5	1.24	1.21	NO	0.0009	35.24	35.23	NO	1.001	1.001	47.6	95.1	NO				
6	1,2,3,4,6,7,8-HpCDD	8.95e4	2.93e5	1.04	1.01	NO	0.0030	36.78	36.79	NO	1.000	1.001	46.7	97.4	NO				
7	OCDD	1.09e5	3.75e5	0.89	0.88	NO	0.0136	41.78	41.78	NO	1.000	1.000	96.4	98.4	NO				
8	2,3,7,8-TCDF	4.32e4	6.45e5	0.77	0.74	NO	0.0710	25.80	25.56	NO	1.001	1.001	8.82	89.2	NO				
9	1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.55	1.50	NO	0.0025	36.17	36.17	NO	1.001	1.001	47.4	94.8	NO				
10	2,3,6,7,8-PeCDF	2.13e5	4.79e5	1.55	1.54	NO	0.0040	31.15	31.15	NO	1.001	1.000	47.8	95.3	NO				
11	1,2,3,4,7,8-HxCDF	1.24e5	2.88e5	1.24	1.21	NO	0.0045	33.95	33.98	NO	1.000	1.000	48.6	97.1	NO				
12	1,2,3,6,7,8-HxCDF	1.52e5	3.50e5	1.24	1.21	NO	0.0002	34.88	34.88	NO	1.000	1.000	48.9	97.8	NO				
14	1,2,3,7,8-HxCDF	1.06e5	2.49e5	1.24	1.22	NO	0.0707	35.90	35.90	NO	1.001	1.000	49.9	97.9	NO				
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	1.04	0.99	NO	0.0734	37.40	37.38	NO	1.001	1.001	48.7	97.4	NO				
16	1,2,3,4,7,8-HxCDF	7.38e4	1.40e5	1.04	0.98	NO	1.0126	39.32	39.33	NO	1.000	1.000	52.0	104	NO				
17	OCDF	1.56e5	4.07e5	0.80	0.83	NO	0.0005	41.97	41.98	NO	1.000	1.000	95.4	95.4	NO				
18	13C-2,3,7,8-TCDD	5.28e5	4.82e5	0.77	0.76	NO	1.1983	28.45	28.46	NO	1.025	1.028	99.9	99.9	NO				
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5	0.63	0.62	NO	0.8489	31.46	31.44	NO	1.219	1.219	95.4	95.4	NO				
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.99e5	1.24	1.26	NO	0.7798	34.82	34.83	NO	1.014	1.014	106	106	NO				
21	13C-1,2,3,6,7,8-HxCDD	3.32e5	2.99e5	1.24	1.25	NO	1.0707	34.82	34.90	NO	1.017	1.017	109	109	NO				



PKT	NAME	CONC	UNIT	REMARKS	LAB	DATE	TIME	STATUS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS	REMARKS
1	2,3,7,8-TCDD	4.40e4	5.20e5		0.77	0.72	NO	0.0003	28.48	28.48	NO	1.001	1.001	0.37	93.7	NO	
2	1,2,3,7,8-PeCDD	1.63e5	3.74e5		0.63	0.61	NO	0.0001	31.46	31.46	NO	1.001	1.000	45.8	96.1	NO	
3	1,2,3,4,7,8-HxCDD	1.10e5	2.47e5		1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	46.8	93.7	NO	
4	1,2,3,6,7,8-HxCDD	1.52e5	3.52e5		1.24	1.36	NO	0.0023	34.93	34.94	NO	1.000	1.000	51.5	103	NO	
5	1,2,3,7,8,9-HxCDD	1.11e5	2.63e5		1.24	1.21	NO	0.0009	35.24	35.23	NO	1.001	1.001	47.6	95.1	NO	
6	1,2,3,4,6,7,8-HpCDD	8.95e4	2.03e5		1.84	1.81	NO	0.0030	36.78	36.79	NO	1.000	1.001	46.7	97.4	NO	
7	OCDD	1.00e5	3.75e5		0.89	0.88	NO	0.9136	41.76	41.79	NO	1.000	1.000	96.4	96.4	NO	
8	2,3,7,8-TCDF	4.32e4	6.48e5		0.77	0.74	NO	0.7519	25.66	25.59	NO	1.001	1.001	8.82	88.2	NO	
9	1,2,3,7,8-PeCDF	2.13e5	5.83e5		1.56	1.56	NO	0.0025	30.17	30.17	NO	1.001	1.001	47.4	94.8	NO	
10	2,3,4,7,8-PeCDF	2.13e5	4.70e5		1.56	1.54	NO	0.9348	31.15	31.15	NO	1.001	1.000	47.6	95.3	NO	
11	1,2,3,4,7,8-HxCDF	1.24e5	2.98e5		1.24	1.21	NO	0.0045	33.98	33.98	NO	1.000	1.000	48.8	97.1	NO	
12	1,2,3,6,7,8-HxCDF	1.52e5	3.50e5		1.24	1.21	NO	0.0082	34.08	34.08	NO	1.000	1.000	48.9	97.8	NO	
13	2,3,4,6,7,8-HpCDF	1.38e5	3.11e5		1.24	1.22	NO	0.9341	34.89	34.89	NO	1.001	1.000	47.8	95.7	NO	
14																	
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5		1.84	0.99	NO	0.8734	37.49	37.36	NO	1.001	1.001	48.7	97.4	NO	
16	1,2,3,4,7,8,9-HpCDF	7.38e4	1.40e5		1.04	0.98	NO	1.0128	36.32	36.33	NO	1.000	1.000	52.0	104	NO	
17	OCDF	1.96e5	4.87e5		0.80	0.83	NO	0.8005	41.97	41.98	NO	1.000	1.000	95.4	95.4	NO	
18	13C-2,3,7,8-TCDD	5.28e5	4.62e5		0.77	0.78	NO	1.1583	28.45	28.45	NO	1.025	1.028	99.9	99.9	NO	
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5		0.63	0.62	NO	0.8490	31.46	31.44	NO	1.219	1.219	95.4	95.4	NO	
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.98e5		1.24	1.26	NO	0.7780	34.82	34.83	NO	1.014	1.014	106	106	NO	
21	13C-1,2,3,6,7,8-HxCDD	3.32e5	2.88e5		1.24	1.25	NO	1.0167	34.92	34.93	NO	1.017	1.017	109	109	NO	



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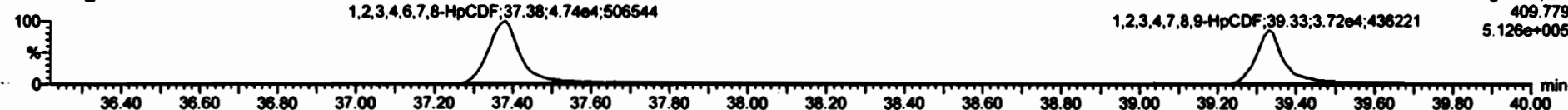
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200707R2_1



200707R2_1

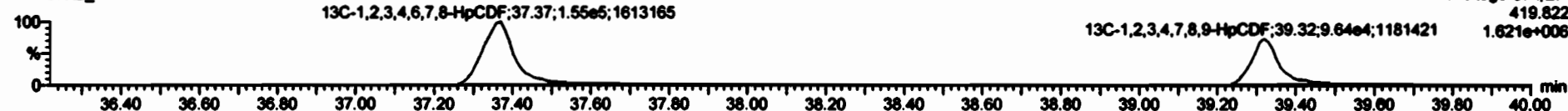


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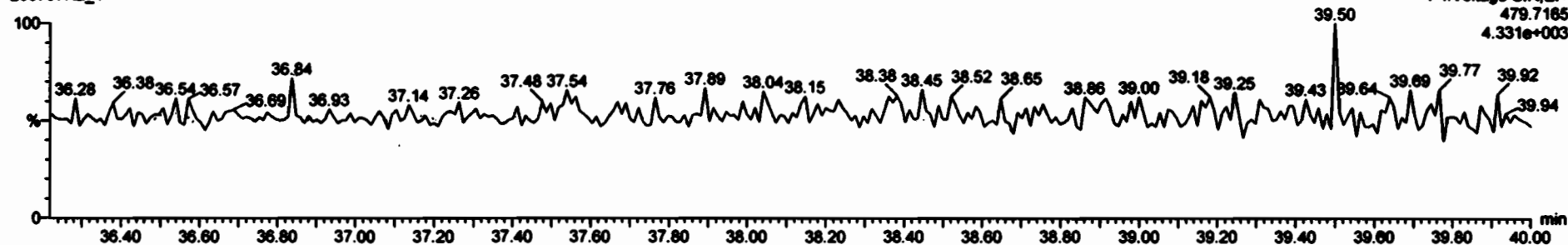


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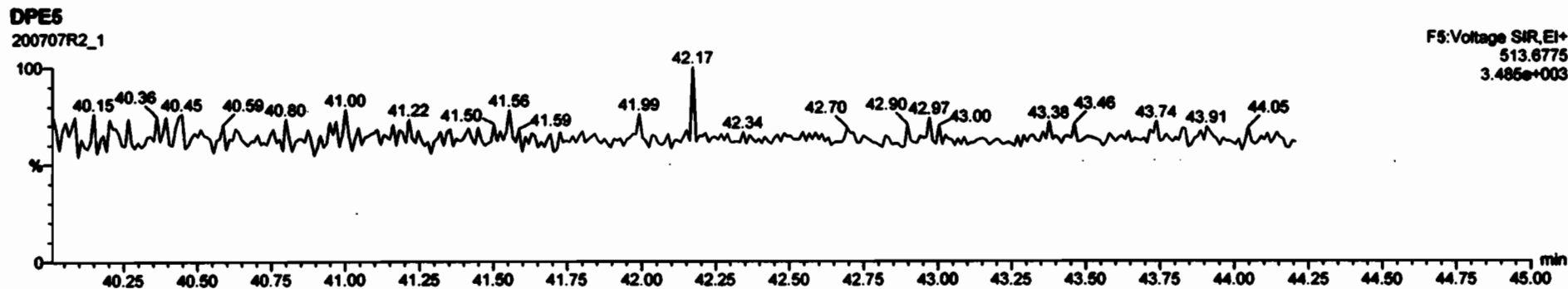
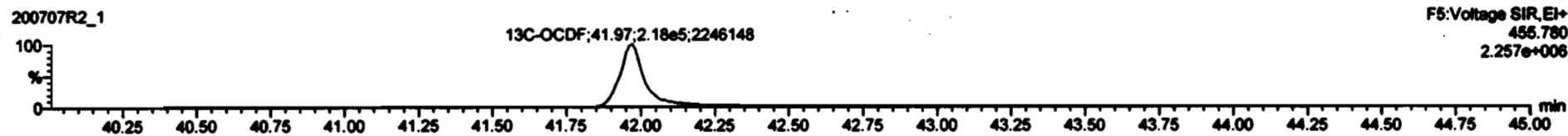
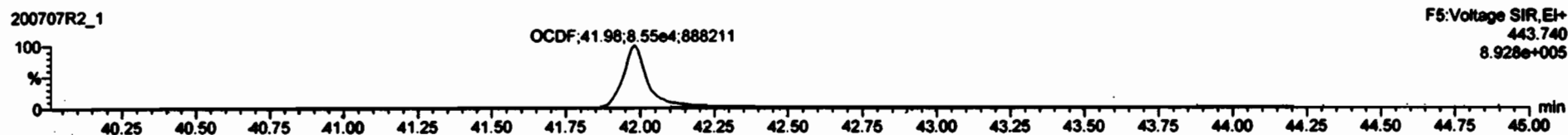
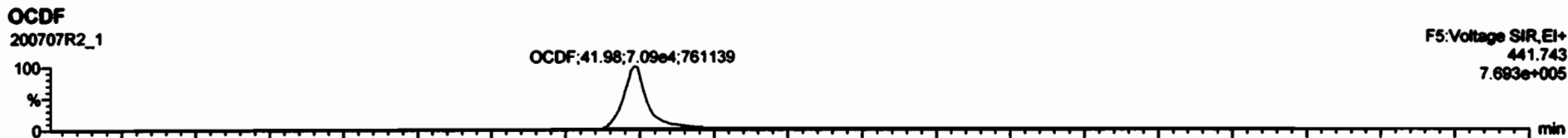
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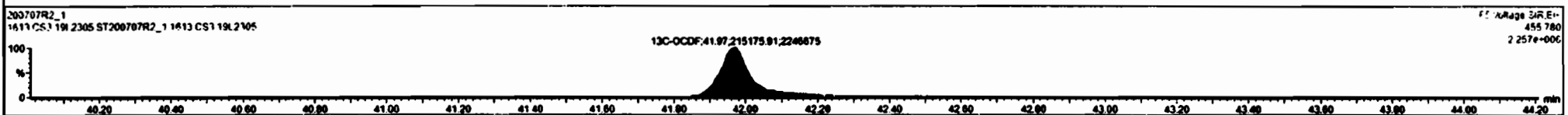
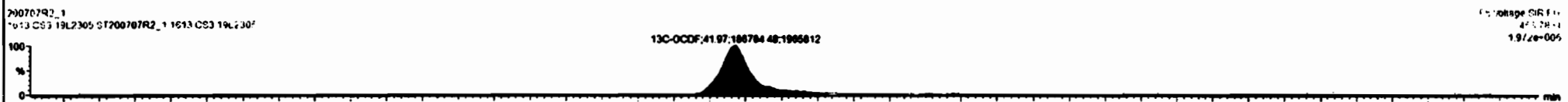
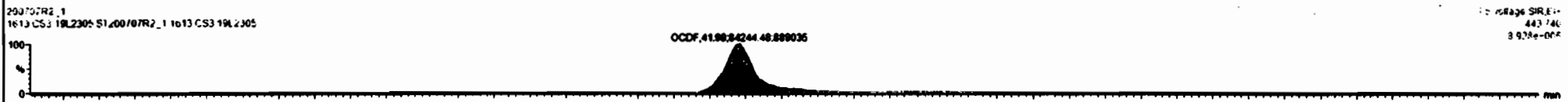
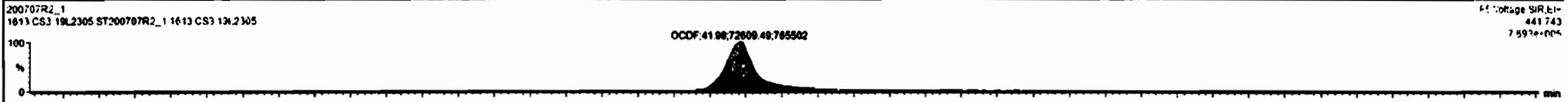
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Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Comp	Chemical Name	Range	Q Range	Peak Ratio	Area Ratio	Response	RT	RT Error	Peak Ratio	Area Ratio	Response	RT	RT Error	Peak Ratio	Area Ratio	Response
1	2,3,7,8-TCDD	4.48e4	5.28e5	0.77	0.72	NO	0.0003	28.48	28.48	NO	1.001	1.001	0.37	93.7	NO	
2	1,2,3,7,8-PeCDD	1.53e5	3.74e5	0.63	0.61	NO	0.0001	31.48	31.45	NO	1.001	1.000	46.0	96.1	NO	
3	1,2,3,4,7,8-HxCDD	1.19e5	2.47e5	1.24	1.25	NO	1.0334	34.84	34.84	NO	1.000	1.000	46.8	93.7	NO	
4	1,2,3,6,7,8-HxCDD	1.52e5	3.32e5	1.24	1.38	NO	0.0023	34.93	34.94	NO	1.000	1.000	51.3	103	NO	
5	1,2,3,7,8,9-HxCDD	1.11e5	2.63e5	1.24	1.21	NO	0.0000	35.34	35.23	NO	1.001	1.001	47.6	95.1	NO	
6	1,2,3,4,6,7,8-HpCDD	0.55e4	2.03e5	1.04	1.01	NO	0.0030	38.79	38.79	NO	1.000	1.001	48.7	97.4	NO	
7	OCDD	1.09e5	3.75e5	0.80	0.80	NO	0.0136	41.78	41.79	NO	1.000	1.000	98.4	98.4	NO	
8	2,3,7,8-TCDF	4.32e4	8.48e5	0.77	0.74	NO	0.7510	25.00	25.50	NO	1.001	1.001	0.82	88.2	NO	
9	1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.55	1.50	NO	0.0025	38.17	38.17	NO	1.001	1.001	47.4	94.8	NO	
10	2,3,4,7,8-PeCDF	2.13e5	4.78e5	1.55	1.54	NO	0.0048	31.15	31.15	NO	1.001	1.000	47.6	95.3	NO	
11	1,2,3,4,7,8-HxCDF	1.24e5	2.88e5	1.24	1.21	NO	0.0045	33.86	33.86	NO	1.000	1.000	46.8	97.1	NO	
12	1,2,3,6,7,8-HxCDF	1.52e5	3.50e5	1.24	1.21	NO	0.0002	34.00	34.00	NO	1.000	1.000	46.9	97.8	NO	
13	2,3,4,6,7,8-HxCDF	1.38e5	3.11e5	1.24	1.22	NO	0.0341	34.00	34.00	NO	1.001	1.000	47.8	95.7	NO	
14	1,2,3,7,8,9-HxCDF	1.01e5	2.41e5	1.24	1.22	NO	0.0707	35.00	35.50	NO	1.001	1.000	48.1	96.1	NO	
15	1,2,3,4,6,7,8-HpCDF	9.42e4	2.22e5	1.04	0.99	NO	0.0734	37.40	37.30	NO	1.001	1.001	48.7	97.4	NO	
16	1,2,3,4,7,8,9-HpCDF	7.38e4	1.40e5	1.04	0.98	NO	1.0128	39.32	39.32	NO	1.000	1.000	52.0	104	NO	
17																
18	13C-2,3,7,8-TCDD	5.28e5	4.62e5	0.77	0.76	NO	1.1583	28.45	28.45	NO	1.025	1.028	88.0	98.9	NO	
19	13C-1,2,3,7,8-PeCDD	3.74e5	4.62e5	0.63	0.62	NO	0.8490	31.46	31.44	NO	1.219	1.219	95.4	95.4	NO	
20	13C-1,2,3,4,7,8-HxCDD	2.47e5	2.99e5	1.24	1.28	NO	0.7780	34.82	34.83	NO	1.014	1.014	100	100	NO	
21	13C-1,2,3,6,7,8-HxCDD	3.32e5	2.99e5	1.24	1.25	NO	1.0167	34.92	34.93	NO	1.017	1.017	100	100	NO	

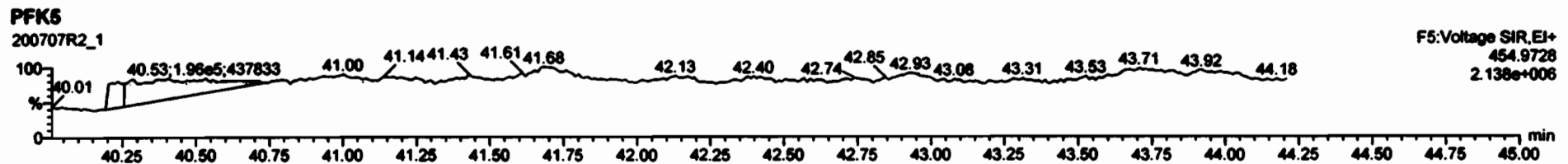
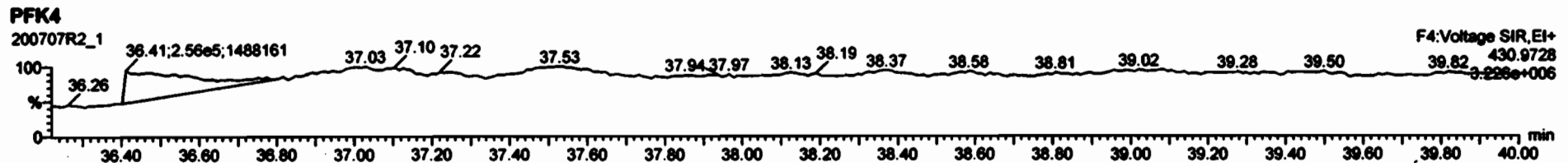
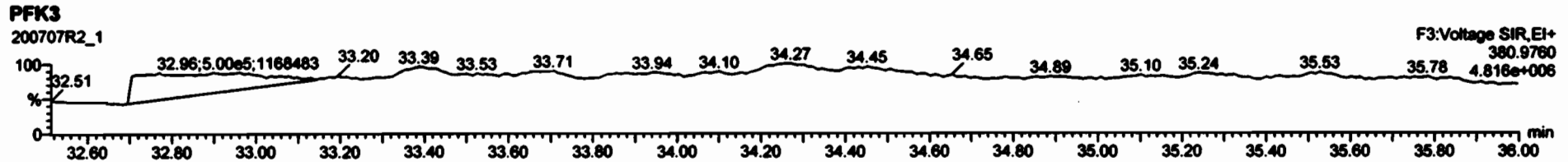
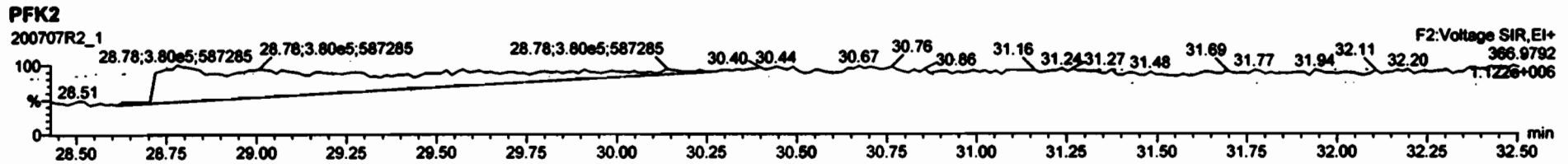
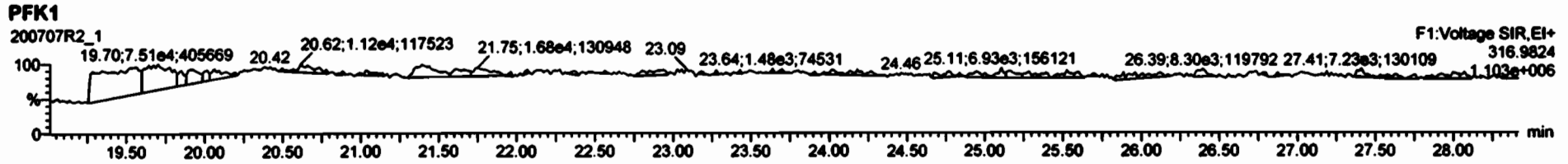


Dataset: Untitled

Last Altered: Tuesday, July 07, 2020 1:49:24 PM Pacific Daylight Time

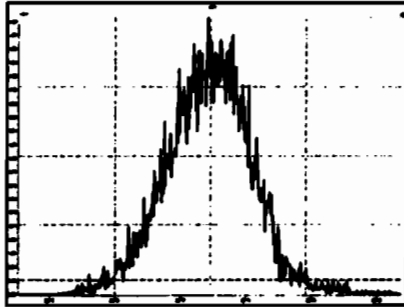
Printed: Tuesday, July 07, 2020 1:49:27 PM Pacific Daylight Time

Name: 200707R2_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

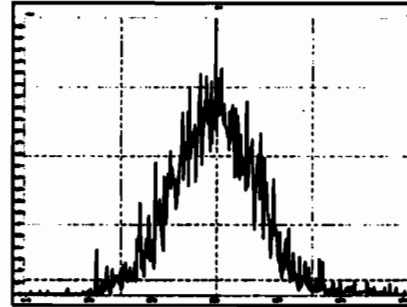


Printed: Wednesday, July 08, 2020 00:33:09 Pacific Daylight Time

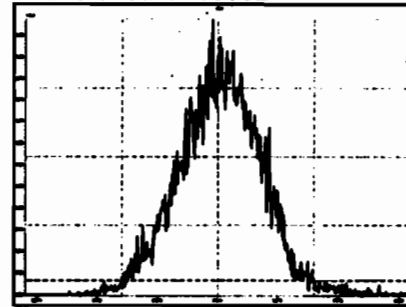
M 292.9824 R 10571



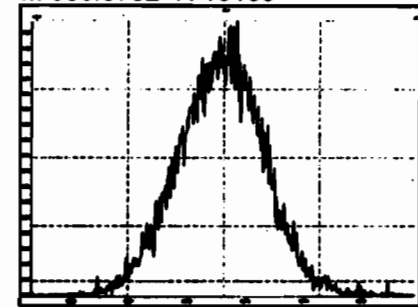
M 304.9824 R 11013



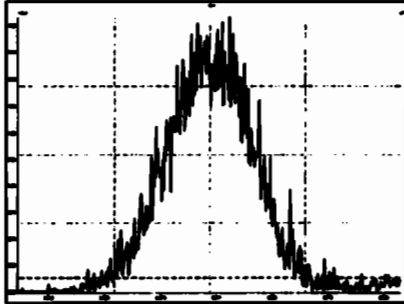
M 318.9792 R 10832



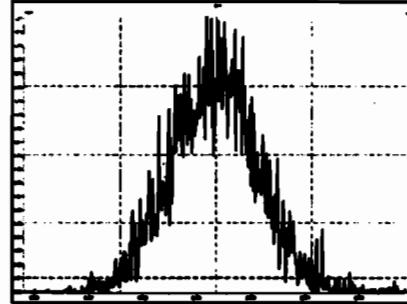
M 330.9792 R 10183



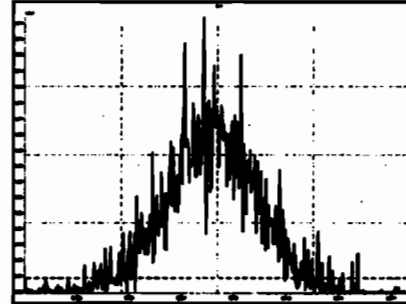
M 342.9792 R 10162



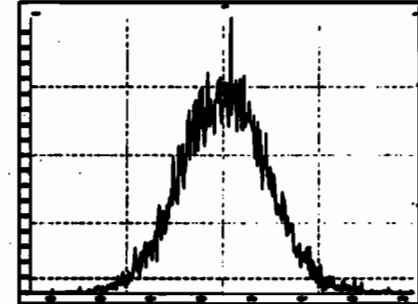
M 354.9792 R 10336



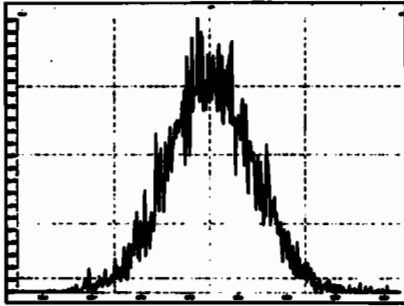
M 366.9792 R 11410



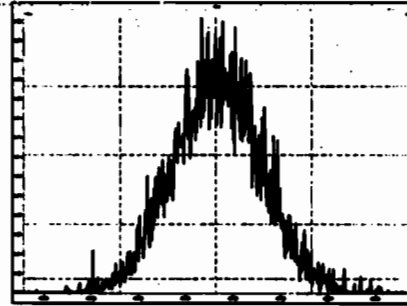
M 380.9760 R 9920 *ok*



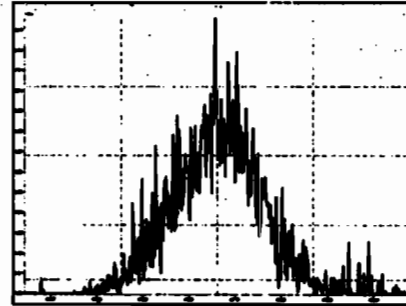
M 392.9760 R 10065



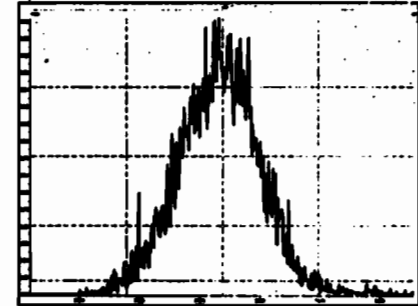
M 404.9760 R 10650



M 416.9760 R 12886

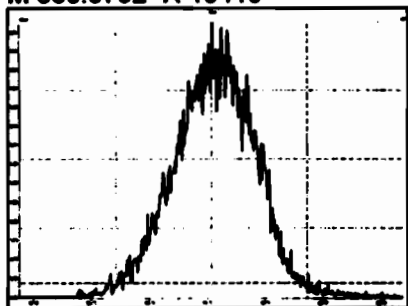


M 318.9792 R 11286

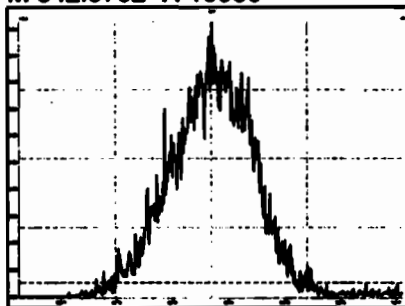


Printed: Wednesday, July 08, 2020 00:33:09 Pacific Daylight Time

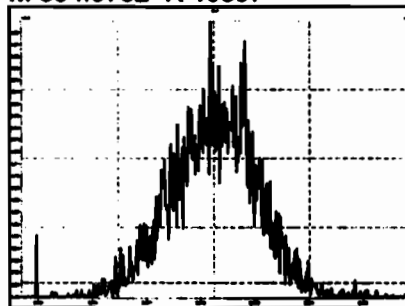
M 330.9792 R 10410



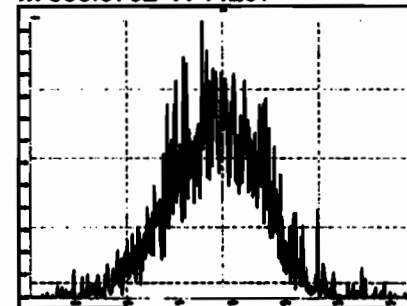
M 342.9792 R 10660



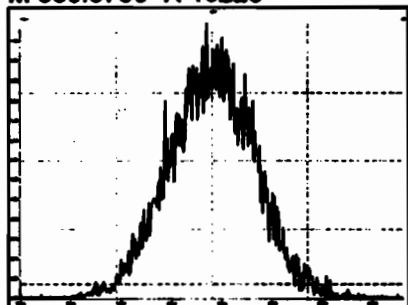
M 354.9792 R 10897



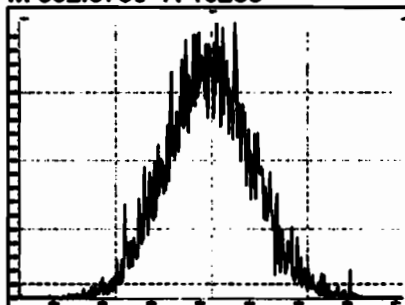
M 366.9792 R 11297



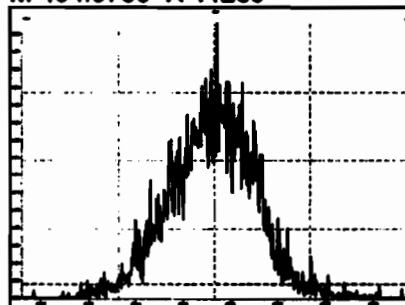
M 380.9760 R 10226



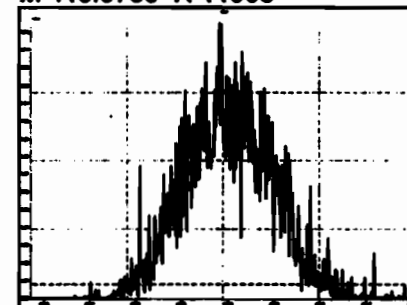
M 392.9760 R 10256



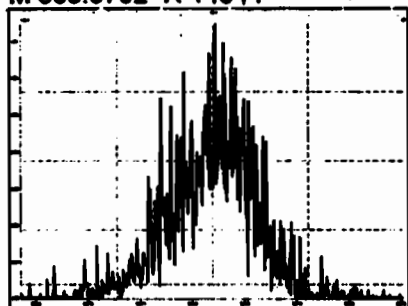
M 404.9760 R 11289



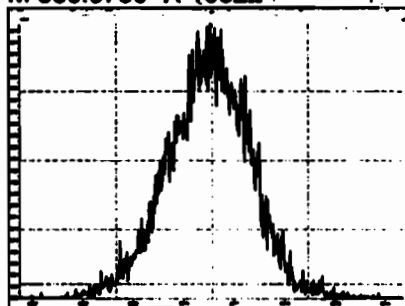
M 416.9760 R 11908



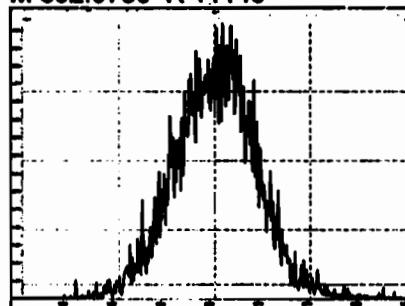
M 366.9792 R 14544



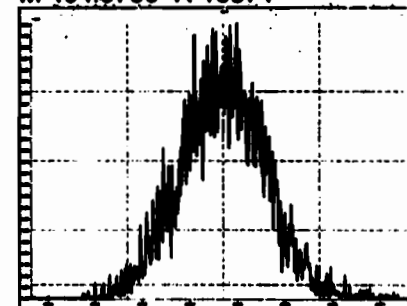
M 380.9760 R 10822



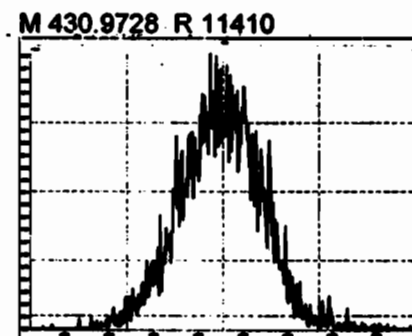
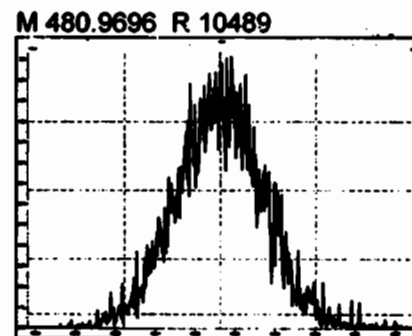
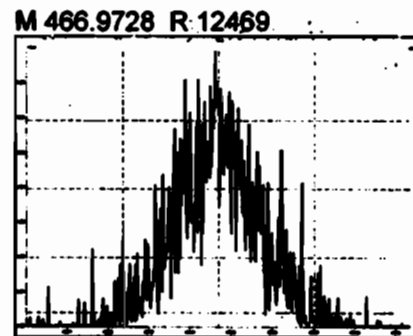
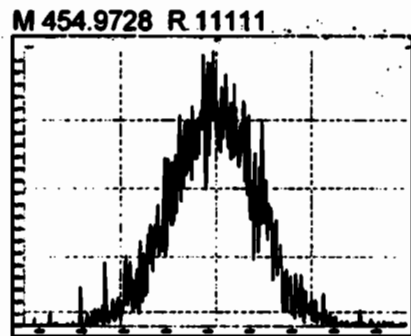
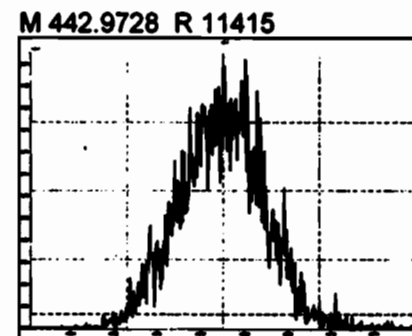
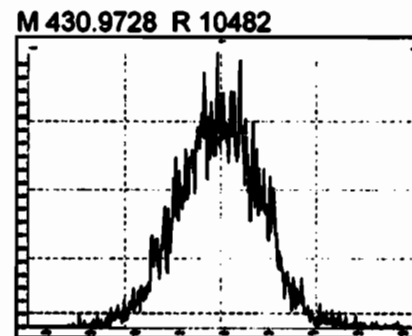
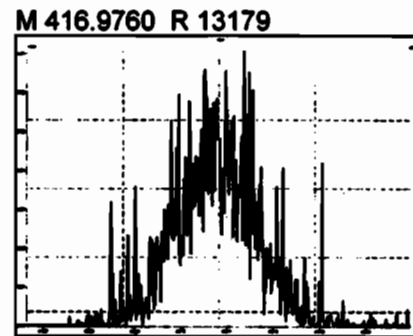
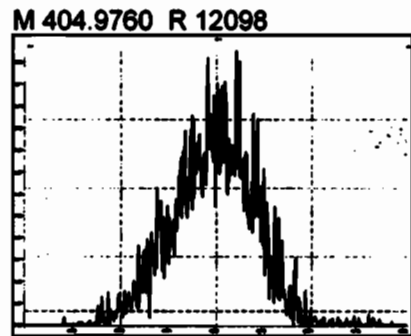
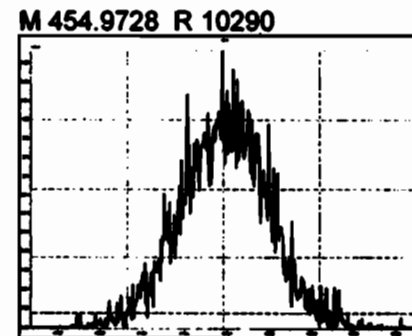
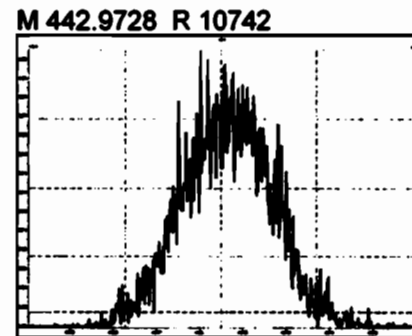
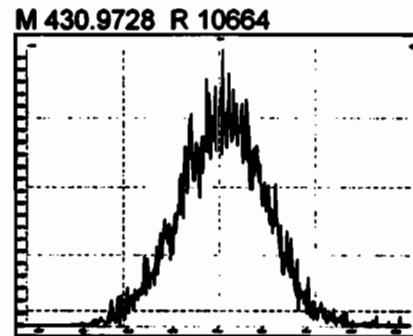
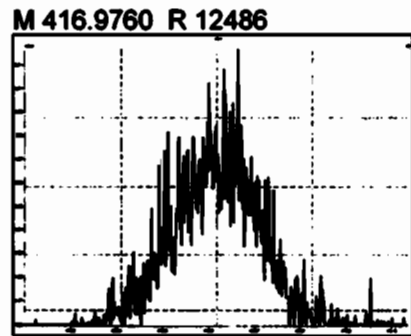
M 392.9760 R 11140



M 404.9760 R 10871

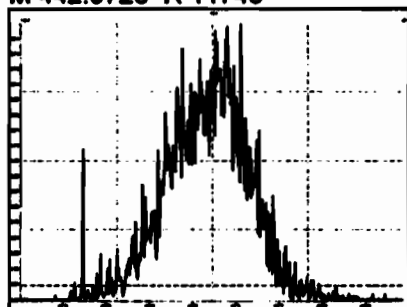


Printed: Wednesday, July 08, 2020 00:33:09 Pacific Daylight Time

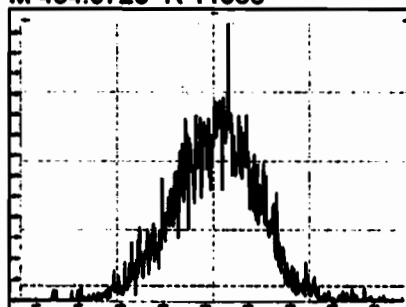


Printed: Wednesday, July 08, 2020 00:33:09 Pacific Daylight Time

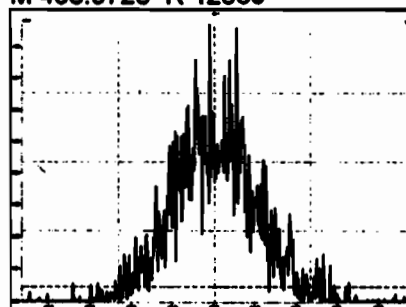
M 442.9728 R 11743



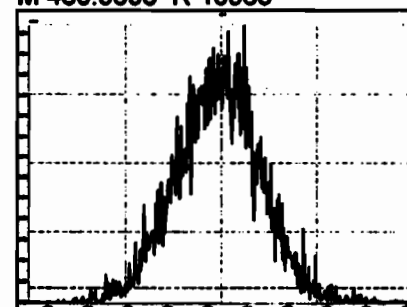
M 454.9728 R 11568



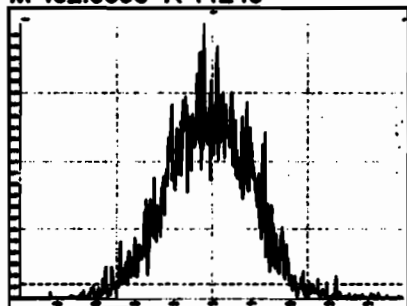
M 466.9728 R 12530



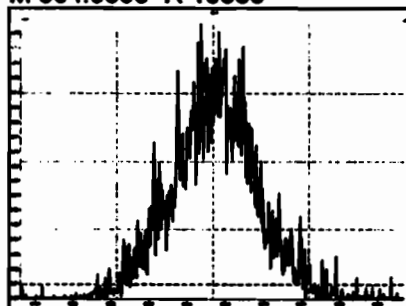
M 480.9696 R 10965



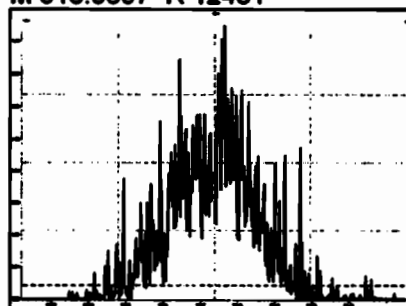
M 492.9696 R 11245



M 504.9696 R 10333



M 516.9697 R 12481



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

|| Beg. Calibration ID: ST20070921-1

Reviewed By: CT 07/10/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> V
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> Y	N
- Bottle position verified?	<input type="checkbox"/>	<u>GRB</u>

	<u>Beg.</u>	<u>End</u>
Mass resolution ≥	<input checked="" type="checkbox"/>	<input type="checkbox"/> A
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
GC Break <20%		<input type="checkbox"/> NA
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:

A) FILAMENT WENT OUT DURING RUN, END RES CHECK DID NOT PRINT
 FILAMENT REPLACED & END RES CHECK PROCESSED MANUALLY

Dataset: U:\VG12.PRO\Results\200709R1\200709R1-1.qld

Last Altered: Thursday, July 09, 2020 10:00:09 AM Pacific Daylight Time

Printed: Thursday, July 09, 2020 10:00:24 AM Pacific Daylight Time

GPB 07/09/2020

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

CT 07/10/2020

Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# 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	6.52e4	7.15e5	0.74	NO	0.888	26.52	26.50	NO	1.001	1.001	10.266	103	NO
2	2 1,2,3,7,8-PeCDD	2.57e5	5.83e5	0.61	NO	0.908	31.49	31.48	NO	1.001	1.000	48.464	96.9	NO
3	3 1,2,3,4,7,8-HxCDD	2.22e5	4.32e5	1.24	NO	1.03	34.86	34.86	NO	1.000	1.000	49.650	99.3	NO
4	4 1,2,3,6,7,8-HxCDD	2.77e5	6.09e5	1.24	NO	0.892	34.95	34.96	NO	1.000	1.000	51.005	102	NO
5	5 1,2,3,7,8,9-HxCDD	2.25e5	5.16e5	1.24	NO	0.887	35.28	35.25	NO	1.001	1.000	49.279	98.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.80e5	4.11e5	1.03	NO	0.864	38.80	38.81	NO	1.000	1.001	50.828	102	NO
7	7 OCDD	3.38e5	7.38e5	0.87	NO	0.914	41.79	41.80	NO	1.000	1.000	100.26	100	NO
8	8 2,3,7,8-TCDF	7.07e4	9.10e5	0.74	NO	0.751	25.62	25.60	NO	1.001	1.001	10.342	103	NO
9	9 1,2,3,7,8-PeCDF	3.53e5	7.93e5	1.64	NO	0.893	30.19	30.18	NO	1.001	1.000	49.914	99.8	NO
10	10 2,3,4,7,8-PeCDF	3.83e5	8.11e5	1.50	NO	0.935	31.18	31.18	NO	1.001	1.000	50.447	101	NO
11	11 1,2,3,4,7,8-HxCDF	2.46e5	5.37e5	1.20	NO	0.884	33.97	33.98	NO	1.000	1.000	51.736	103	NO
12	12 1,2,3,6,7,8-HxCDF	2.94e5	6.42e5	1.19	NO	0.889	34.10	34.11	NO	1.000	1.001	51.529	103	NO
13	13 2,3,4,6,7,8-HxCDF	2.88e5	6.07e5	1.22	NO	0.934	34.70	34.70	NO	1.001	1.001	50.856	102	NO
14	14 1,2,3,7,8,9-HxCDF	2.28e5	5.11e5	1.22	NO	0.871	35.62	35.61	NO	1.001	1.000	51.237	102	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.12e5	4.63e5	1.00	NO	0.873	37.42	37.39	NO	1.001	1.000	52.319	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.61e5	3.07e5	1.00	NO	1.01	39.33	39.34	NO	1.000	1.000	51.822	104	NO
17	17 OCDF	3.36e5	8.09e5	0.87	NO	0.806	41.98	41.99	NO	1.000	1.000	103.03	103	NO
18	18 13C-2,3,7,8-TCDD	7.15e5	6.15e5	0.78	NO	1.16	26.46	26.48	NO	1.025	1.026	100.52	101	NO
19	19 13C-1,2,3,7,8-PeCDD	5.83e5	6.15e5	0.62	NO	0.849	31.48	31.47	NO	1.219	1.219	111.60	112	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.32e5	5.58e5	1.27	NO	0.779	34.84	34.85	NO	1.014	1.014	99.414	99.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.09e5	5.58e5	1.26	NO	1.02	34.94	34.95	NO	1.017	1.017	107.39	107	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.16e5	5.58e5	1.24	NO	0.903	35.25	35.24	NO	1.026	1.025	102.40	102	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.11e5	5.58e5	1.06	NO	0.689	38.80	38.79	NO	1.129	1.129	106.87	107	NO
24	24 13C-OCDD	7.38e5	5.58e5	0.90	NO	0.652	41.80	41.79	NO	1.216	1.216	202.91	101	NO
25	25 13C-2,3,7,8-TCDF	9.10e5	8.79e5	0.77	NO	1.06	25.57	25.59	NO	0.991	0.991	97.759	97.8	NO
26	26 13C-1,2,3,7,8-PeCDF	7.93e5	8.79e5	1.53	NO	0.838	30.19	30.17	NO	1.170	1.169	107.66	108	NO
27	27 13C-2,3,4,7,8-PeCDF	8.11e5	8.79e5	1.57	NO	0.817	31.17	31.16	NO	1.207	1.207	112.99	113	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.37e5	5.58e5	0.51	NO	1.01	33.98	33.97	NO	0.989	0.989	95.569	95.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.42e5	5.58e5	0.52	NO	1.17	34.09	34.09	NO	0.992	0.992	98.588	98.6	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.07e5	5.58e5	0.53	NO	1.02	34.67	34.68	NO	1.009	1.009	106.45	106	NO

Dataset: U:\VG12.PRO\Results\200709R1\200709R1-1.qld

Last Altered: Thursday, July 09, 2020 10:00:09 AM Pacific Daylight Time

Printed: Thursday, July 09, 2020 10:00:24 AM Pacific Daylight Time

Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	5.11e5	5.58e5	0.50	NO	0.860	35.60	35.60	NO	1.036	1.036	106.56	107	NO
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.63e5	5.58e5	0.44	NO	0.774	37.38	37.38	NO	1.088	1.088	107.17	107	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.07e5	5.58e5	0.42	NO	0.521	39.36	39.33	NO	1.145	1.144	105.65	106	NO
34	34 13C-OCDF	8.09e5	5.58e5	0.89	NO	0.746	41.99	41.98	NO	1.222	1.222	194.37	97.2	NO
35	35 37Cl-2,3,7,8-TCDD	6.65e4	6.15e5			1.04	26.48	26.50	NO	1.026	1.027	10.431	104	NO
36	36 13C-1,2,3,4-TCDD	6.15e5	6.15e5	0.78	NO	1.00	25.74	25.81	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.79e5	8.79e5	0.78	NO	1.00	24.03	24.12	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.58e5	5.58e5	0.52	NO	1.00	34.29	34.37	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Friday, July 10, 2020 7:46:32 AM Pacific Daylight Time
Printed: Friday, July 10, 2020 7:46:58 AM Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21
Calibration: U:\VG12.PRO\CurveDB\1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

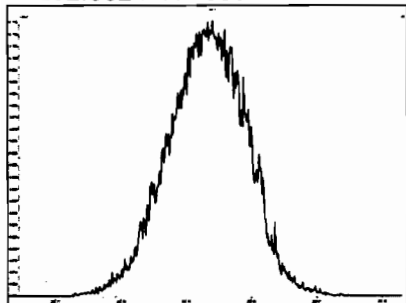
	Name	ID	Acq.Date	Acq.Time
1	200709R1_1	ST200709R1_1 1613 CS3 19L2305	09-Jul-20	07:50:04
2	200709R1_2	B0F0280-BS1 OPR 10	09-Jul-20	08:38:20
3	200709R1_3	B0F0240-BS1 OPR 1	09-Jul-20	09:23:58
4	200709R1_4	B0G0022-BS1 OPR 1	09-Jul-20	10:09:26
5	200709R1_5	B0G0028-BS1 OPR 1	09-Jul-20	10:54:54
6	200709R1_6	SOLVENT BLANK	09-Jul-20	11:41:15
7	200709R1_7	B0F0240-BLK1 Method Blank 1	09-Jul-20	12:26:38
8	200709R1_8	B0G0022-BLK1 Method Blank 1	09-Jul-20	13:12:05
9	200709R1_9	B0G0028-BLK1 Method Blank 1	09-Jul-20	13:57:31
10	200709R1_10	HRMS-200701-01	09-Jul-20	14:43:45
11	200709R1_11	2001331-01 Greenock Lane, Ventura - DH-1 1...	09-Jul-20	15:29:12
12	200709R1_12	2001297-01 Effluent 001 1.02497	09-Jul-20	16:14:35
13	200709R1_13	2001081-01RE1 B 108-20200514 0.2	09-Jul-20	17:00:00
14	200709R1_14	2001081-02RE1 B 108-20200514-FD 0.2	09-Jul-20	17:45:24
15	200709R1_15	2001211-01 TMW-C02 0.91416	09-Jul-20	18:30:46
16	200709R1_16	2001211-02 TMW-C01 0.99296	09-Jul-20	19:16:11

ⓐ FILAMENT WENT OUT
GRB 07/10/2020

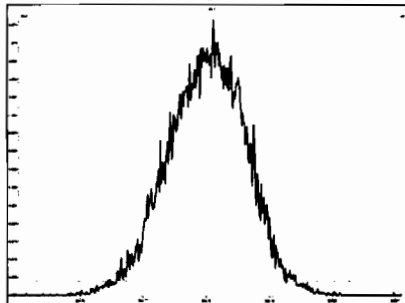
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, July 09, 2020 07:44:59 Pacific Daylight Time

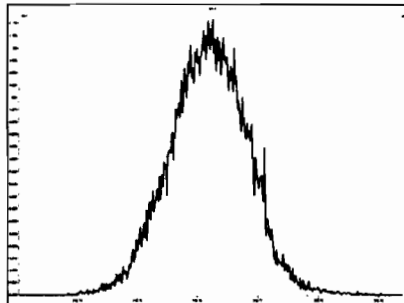
M 292.9824 R 10868



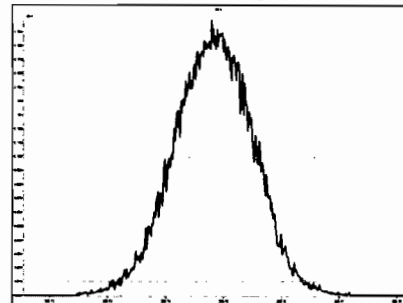
M 304.9824 R 10731



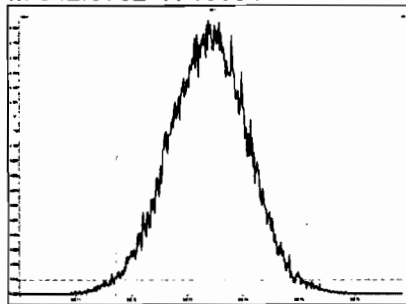
M 318.9792 R 11210



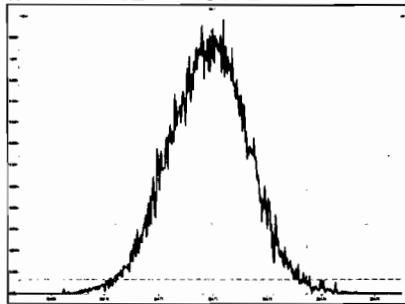
M 330.9792 R 10546



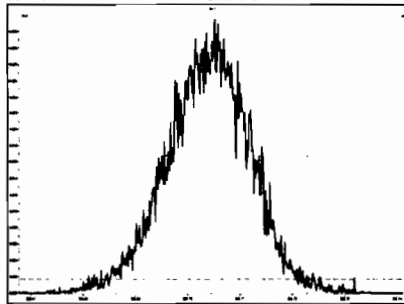
M 342.9792 R 10684



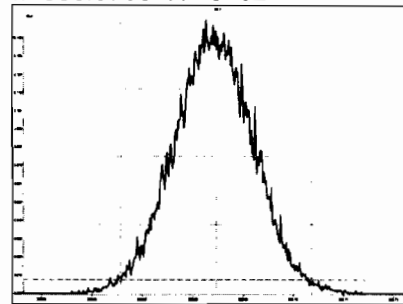
M 354.9792 R 10372



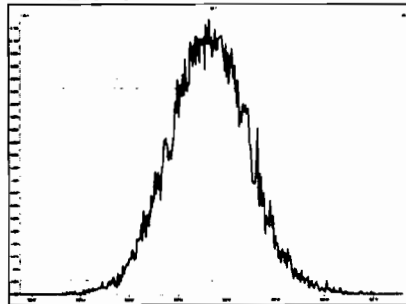
M 366.9792 R 10205



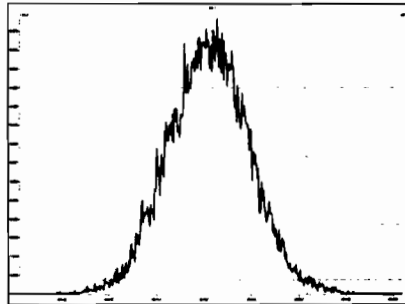
M 380.9760 R 10162



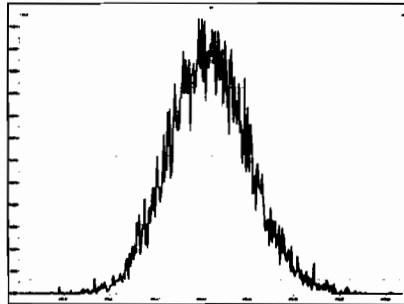
M 392.9760 R 10685



M 404.9760 R 10416



M 416.9760 R 10205



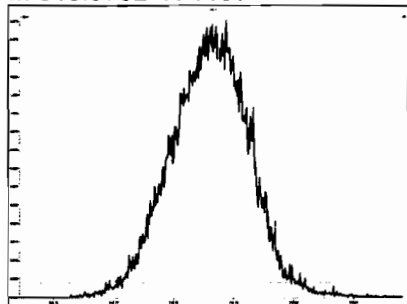
Experiment Calibration Report

MassLynx 4.1 SCN815

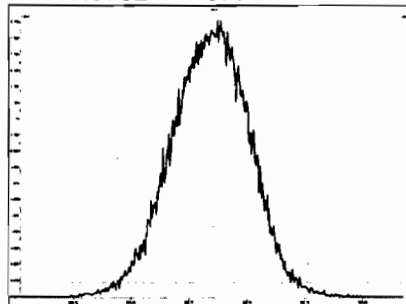
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, July 09, 2020 07:45:34 Pacific Daylight Time

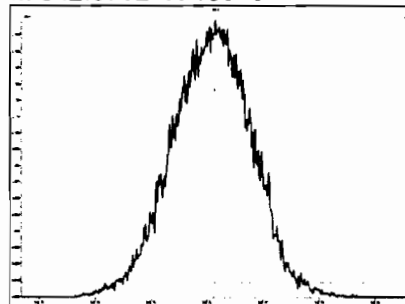
M 318.9792 R 11364



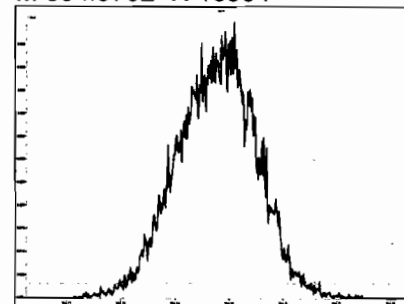
M 330.9792 R 10774



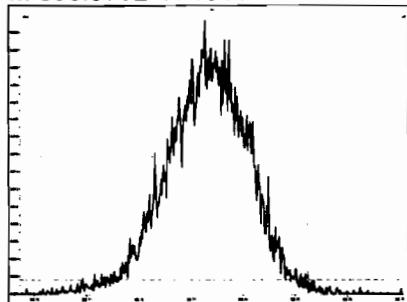
M 342.9792 R 10545



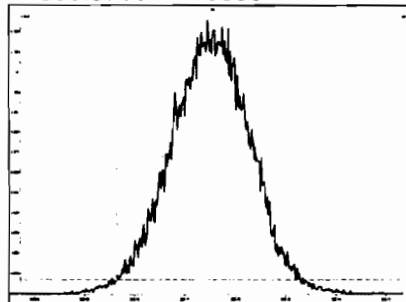
M 354.9792 R 10964



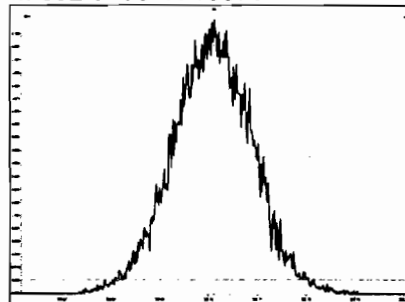
M 366.9792 R 10414



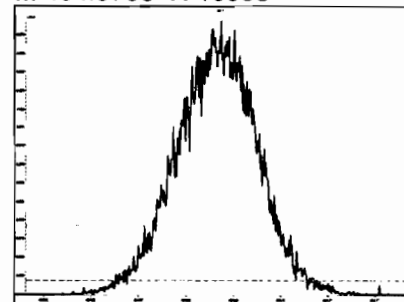
M 380.9760 R 10330



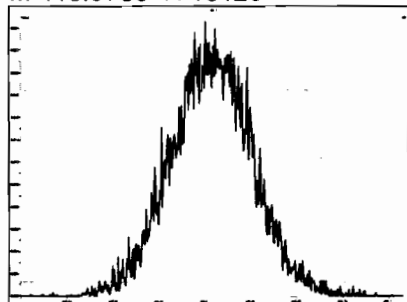
M 392.9760 R 10079



M 404.9760 R 10638



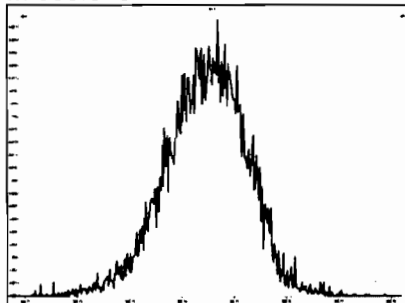
M 416.9760 R 10120



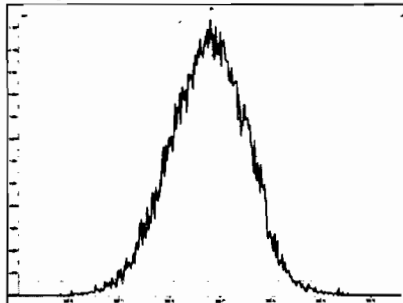
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, July 09, 2020 07:46:12 Pacific Daylight Time

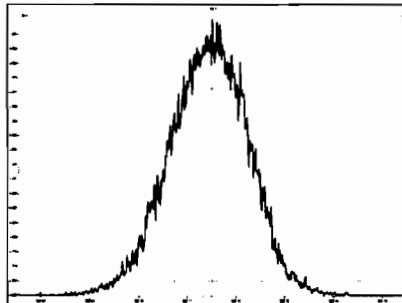
M 366.9792 R 11213



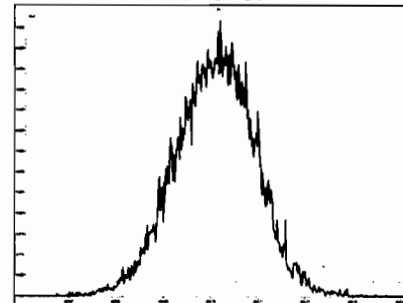
M 380.9760 R 11161



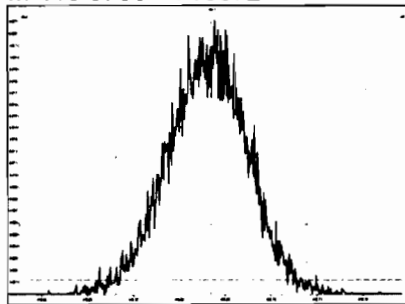
M 392.9760 R 10286



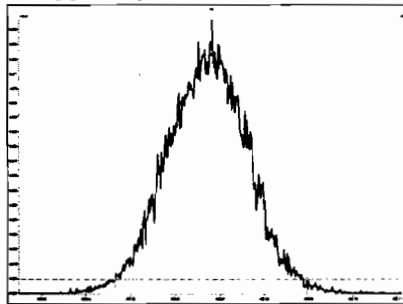
M 404.9760 R 10457



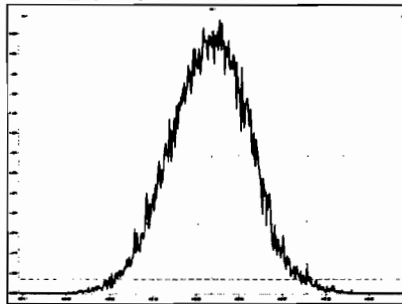
M 416.9760 R 10872



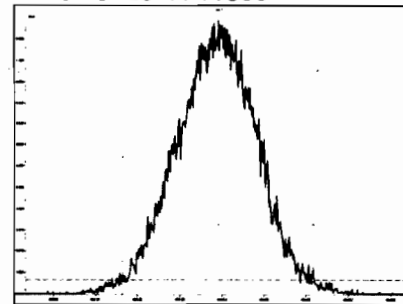
M 430.9728 R 10119



M 442.9728 R 10330



M 454.9728 R 11063



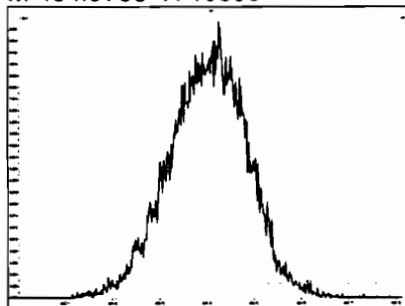
Experiment Calibration Report

MassLynx 4.1 SCN815

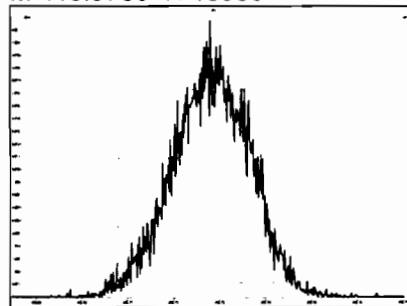
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, July 09, 2020 07:46:31 Pacific Daylight Time

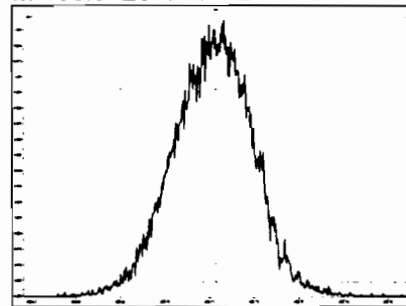
M 404.9760 R 10506



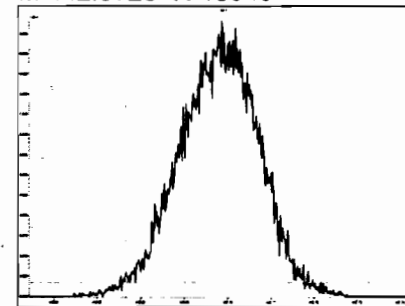
M 416.9760 R 10965



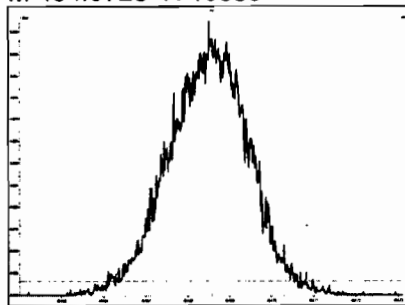
M 430.9728 R 10821



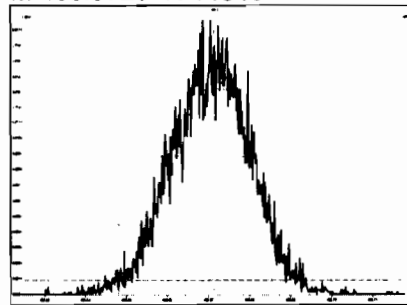
M 442.9728 R 10545



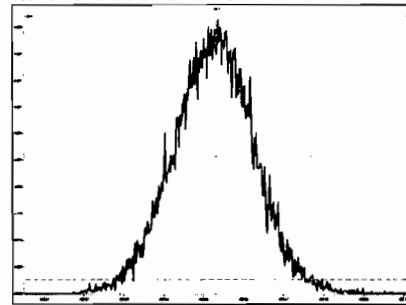
M 454.9728 R 10683



M 466.9728 R 11313



M 480.9696 R 10504



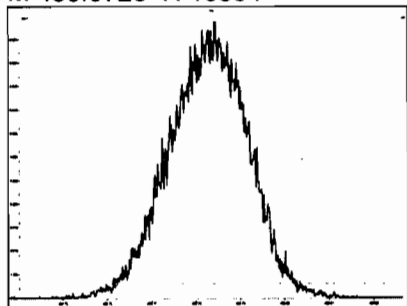
Experiment Calibration Report

MassLynx 4.1 SCN815

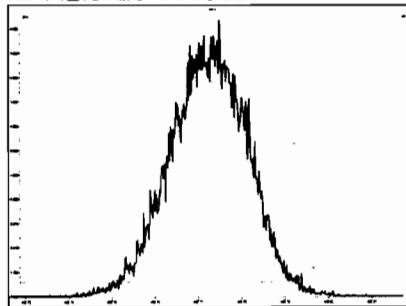
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Printed: Thursday, July 09, 2020 07:46:51 Pacific Daylight Time

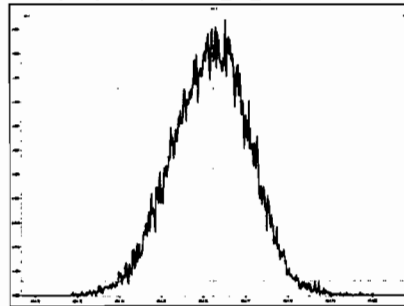
M 430.9728 R 10684



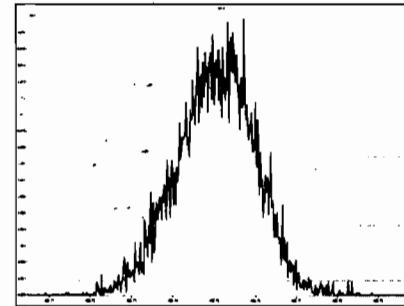
M 442.9728 R 10637



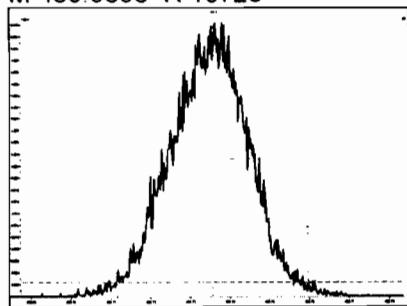
M 454.9728 R 11262



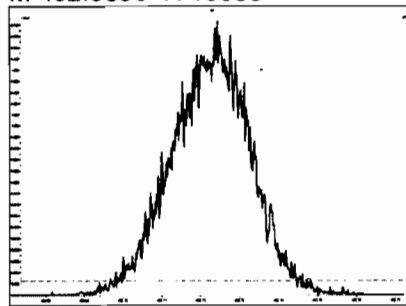
M 466.9728 R 11311



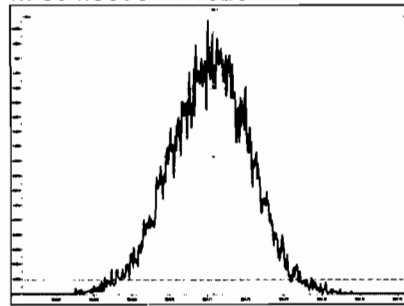
M 480.9696 R 10728



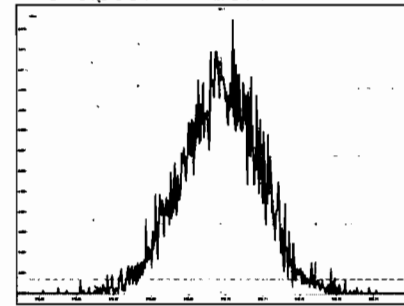
M 492.9696 R 10638



M 504.9696 R 10287



M 516.9697 R 12377



Dataset: Untitled

Last Altered: Thursday, July 09, 2020 8:36:04 AM Pacific Daylight Time
Printed: Thursday, July 09, 2020 8:37:12 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.46
2	2 1,2,8,9-TCDD (Last)	27.46
3	3 1,2,4,7,9-PeCDD (First)	29.25
4	4 1,2,3,8,9-PeCDD (Last)	31.86
5	5 1,2,4,6,7,9-HxCDD (First)	33.34
6	6 1,2,3,7,8,9-HxCDD (Last)	35.25
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.80
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.81
9	9 1,3,6,8-TCDF (First)	20.32
10	10 1,2,8,9-TCDF (Last)	27.62
11	11 1,3,4,6,8-PeCDF (First)	27.58
12	12 1,2,3,8,9-PeCDF (Last)	32.11
13	13 1,2,3,4,6,8-HxCDF (First)	32.80
14	14 1,2,3,7,8,9-HxCDF (Last)	35.61
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.39
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.34

Dataset: Untitled

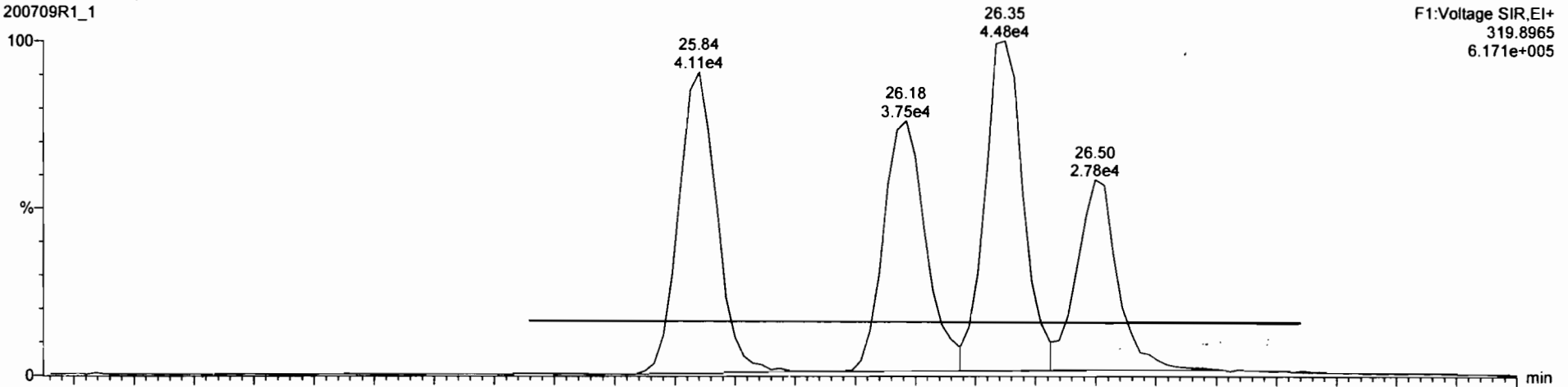
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Printed: Thursday, July 09, 2020 8:37:12 AM Pacific Daylight Time

GRB 07/09/2020

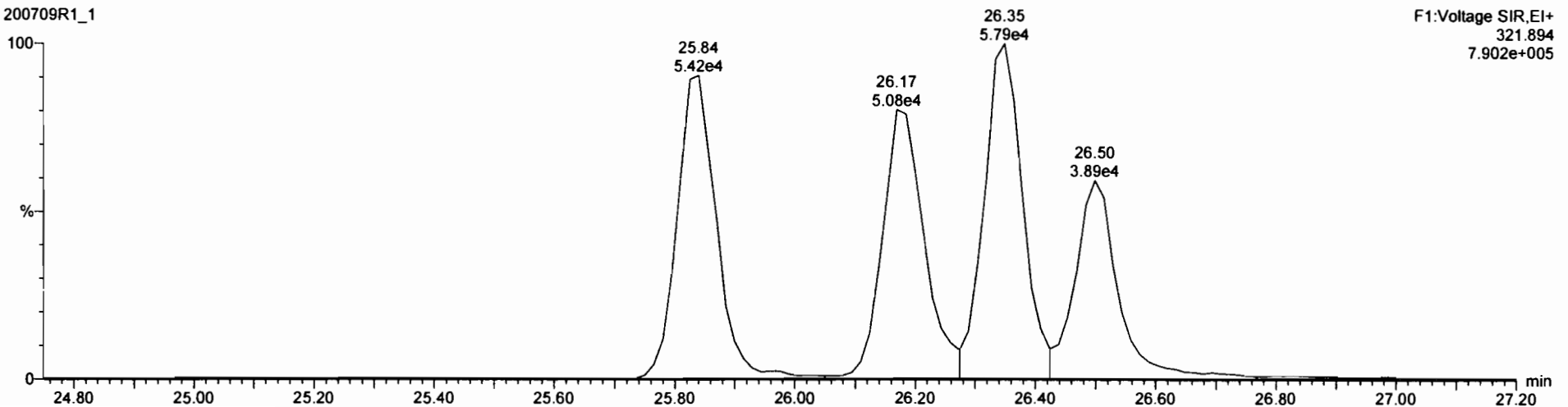
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200709R1_1



200709R1_1



Dataset: Untitled

Last Altered: Thursday, July 09, 2020 9:12:14 AM Pacific Daylight Time

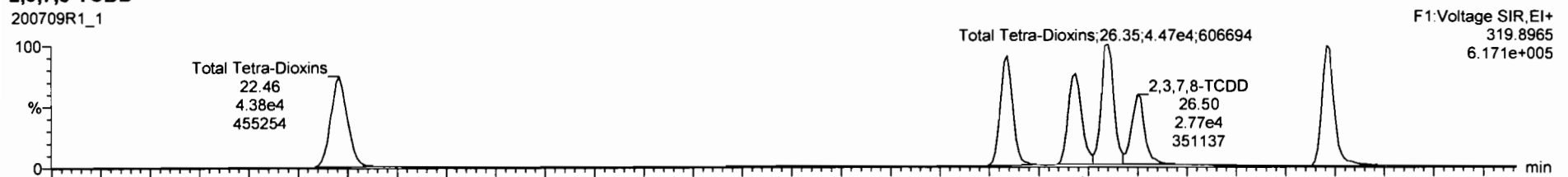
Printed: Thursday, July 09, 2020 9:12:19 AM Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt-7-3-20.mdb 03 Jul 2020 12:13:21
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

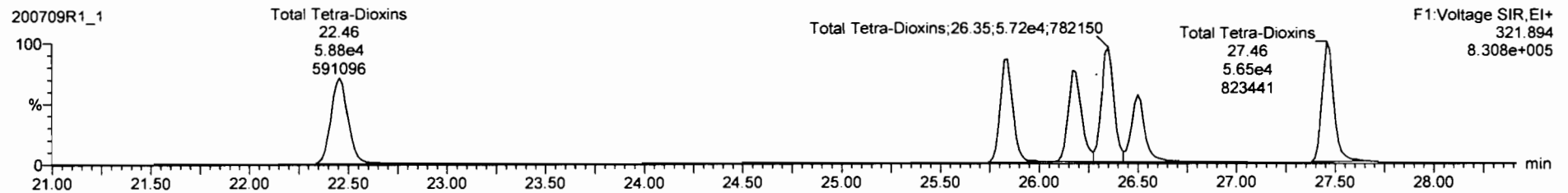
Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200709R1_1

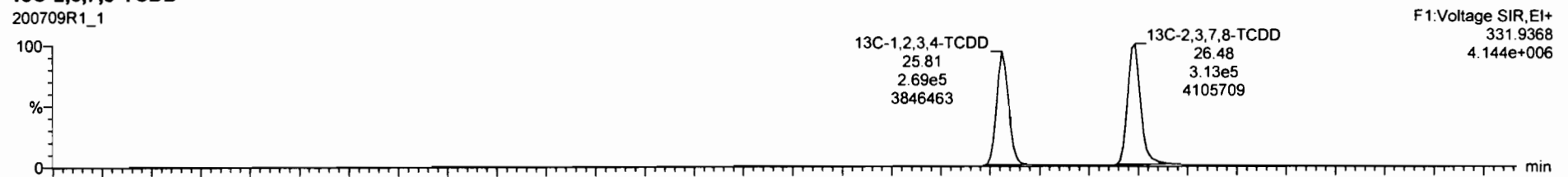


200709R1_1

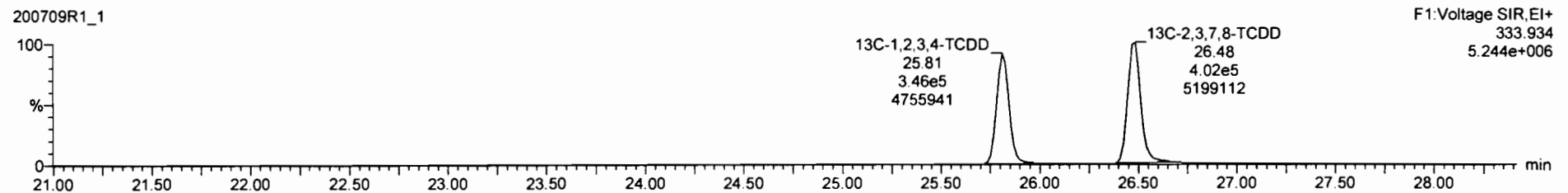


13C-2,3,7,8-TCDD

200709R1_1



200709R1_1



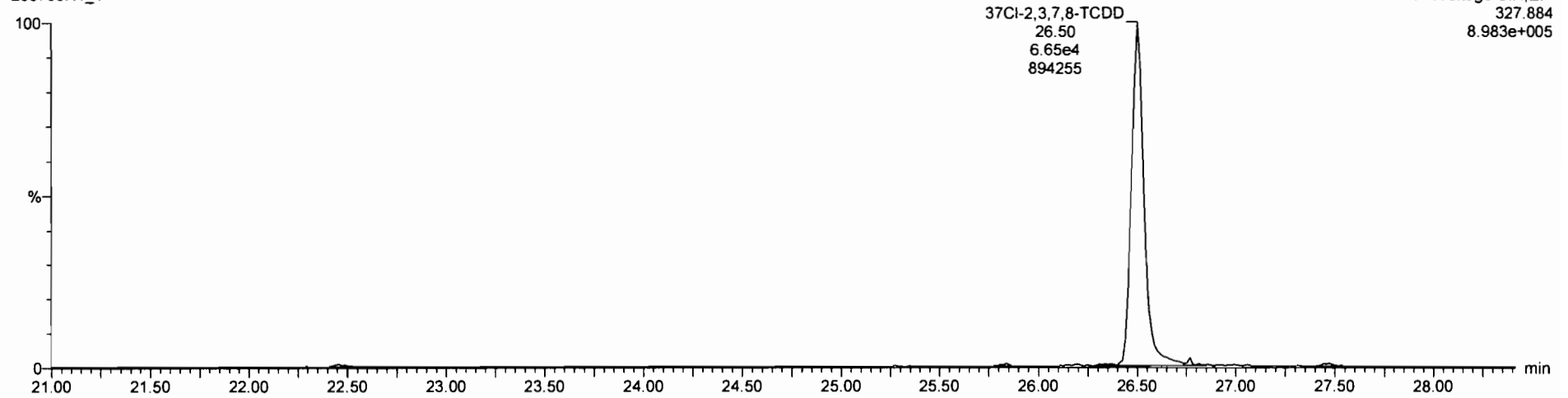
Dataset: Untitled

Last Altered: Thursday, July 09, 2020 9:12:14 AM Pacific Daylight Time
Printed: Thursday, July 09, 2020 9:12:19 AM Pacific Daylight Time

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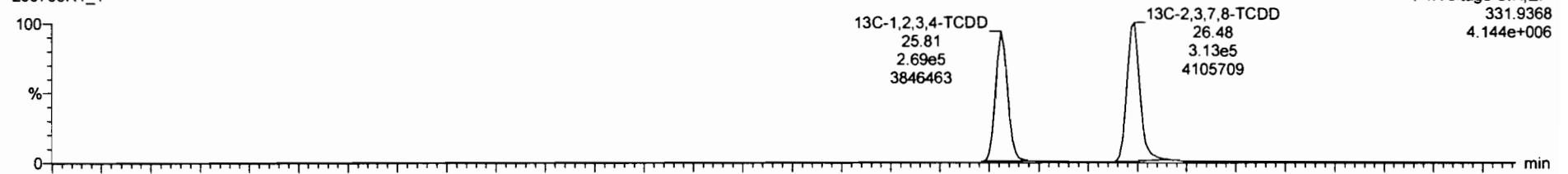
37Cl-2,3,7,8-TCDD

200709R1_1

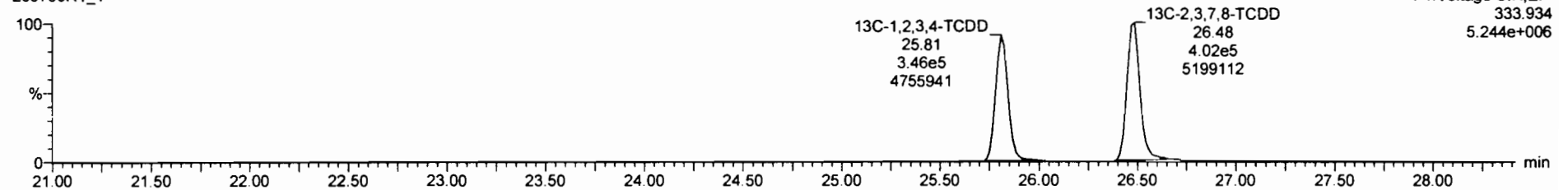


13C-1,2,3,4-TCDD

200709R1_1



200709R1_1



Dataset: Untitled

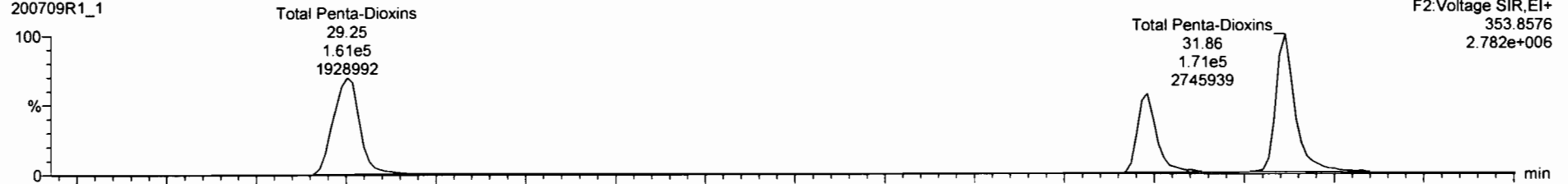
Last Altered: Thursday, July 09, 2020 9:12:14 AM Pacific Daylight Time

Printed: Thursday, July 09, 2020 9:12:19 AM Pacific Daylight Time

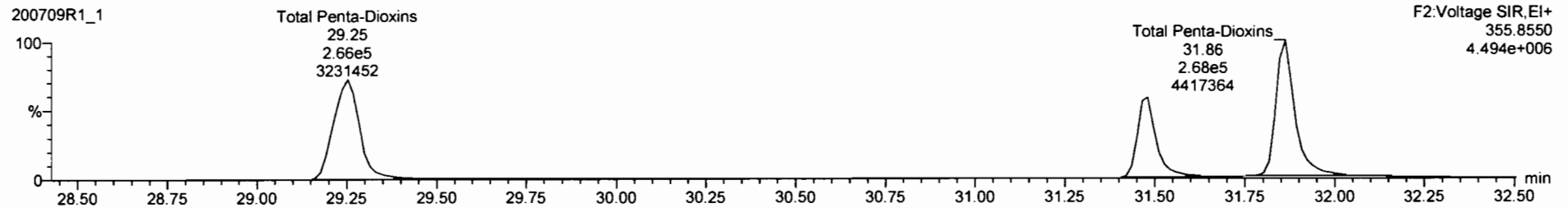
Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200709R1_1

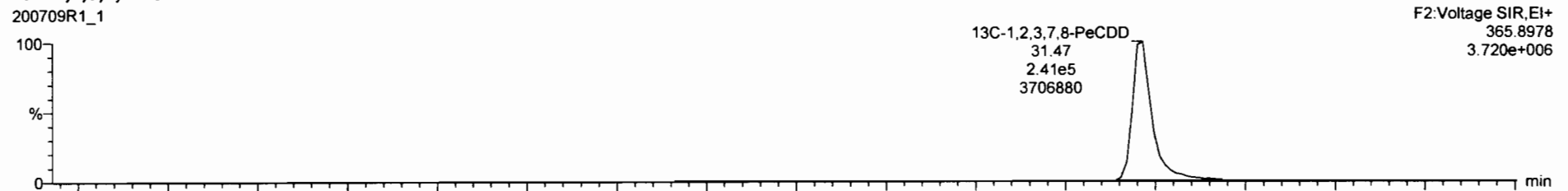


200709R1_1

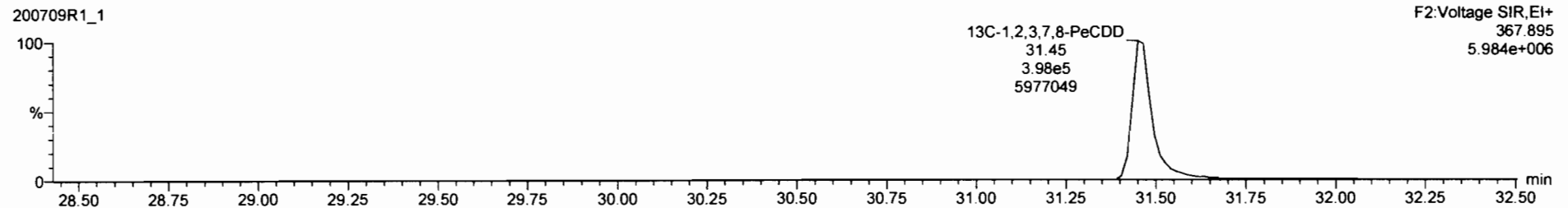


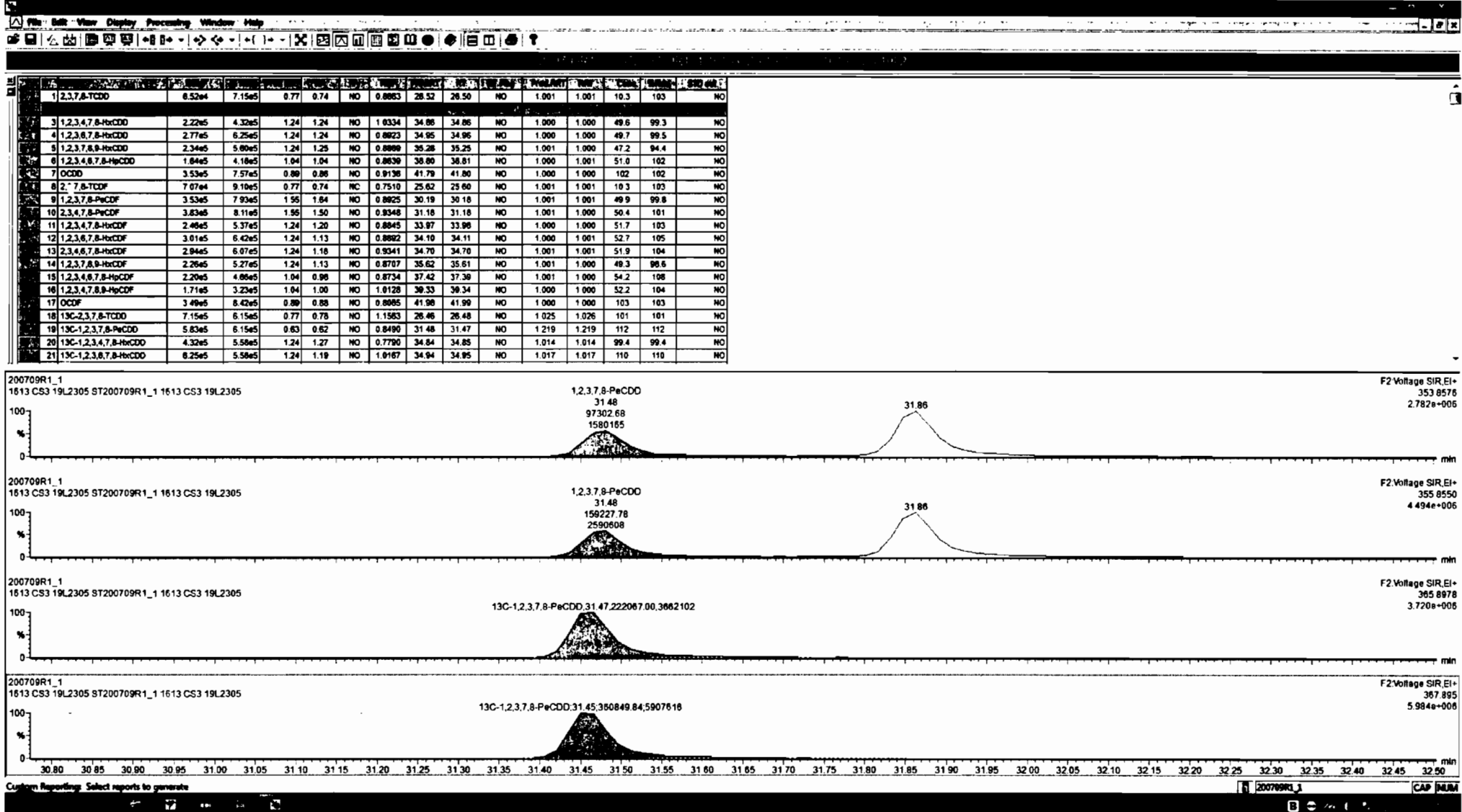
¹³C-1,2,3,7,8-PeCDD

200709R1_1



200709R1_1





Dataset: Untitled

Last Altered: Thursday, July 09, 2020 9:12:14 AM Pacific Daylight Time
Printed: Thursday, July 09, 2020 9:12:19 AM Pacific Daylight Time

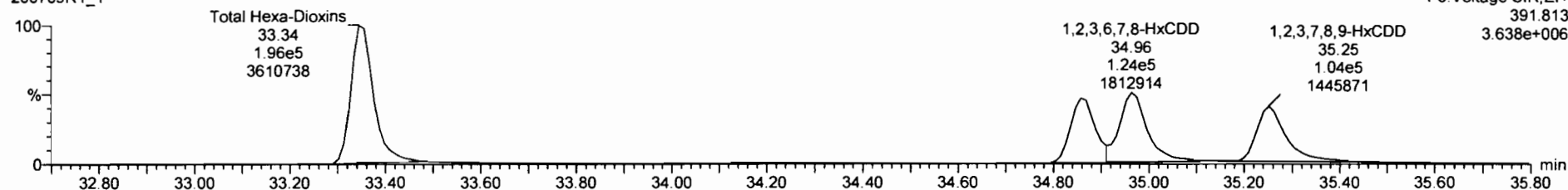
Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200709R1_1



200709R1_1

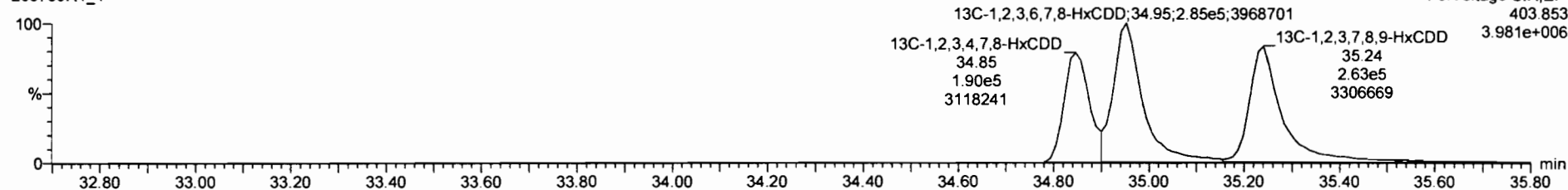


13C-1,2,3,4,7,8-HxCDD

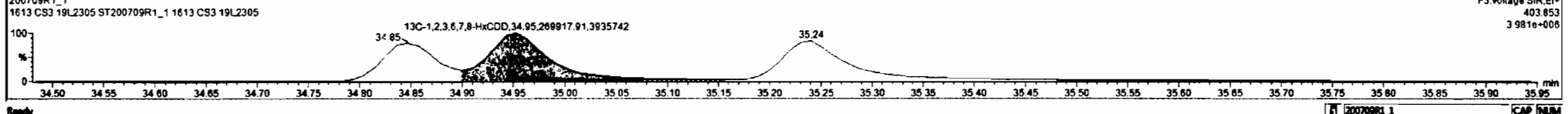
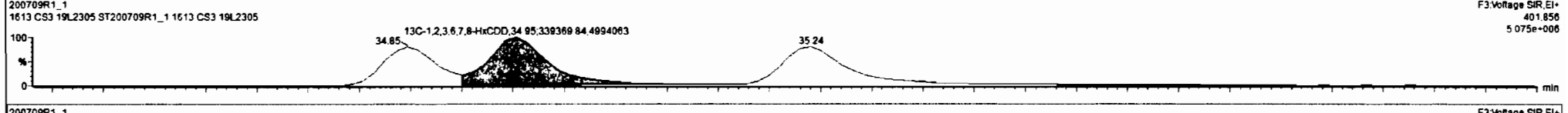
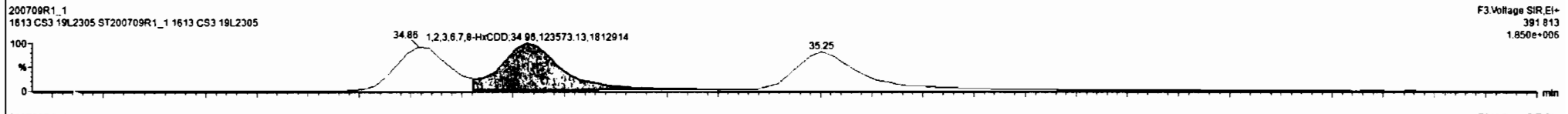
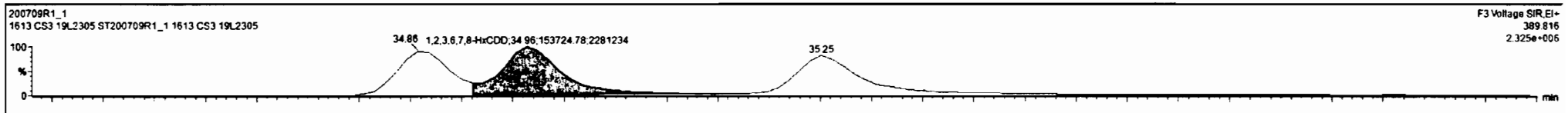
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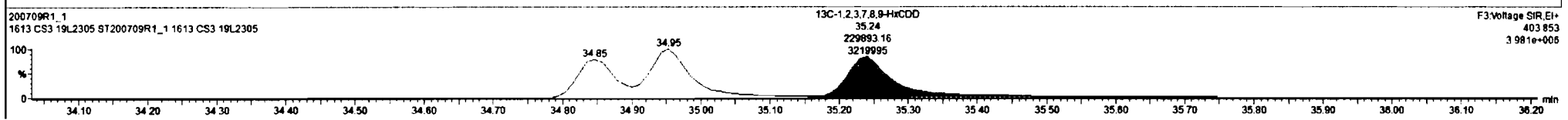
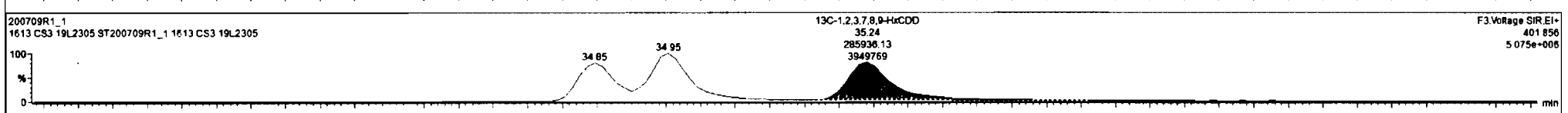
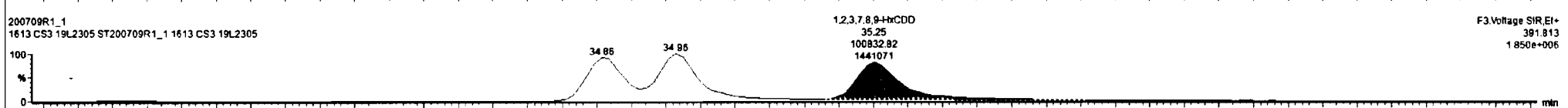
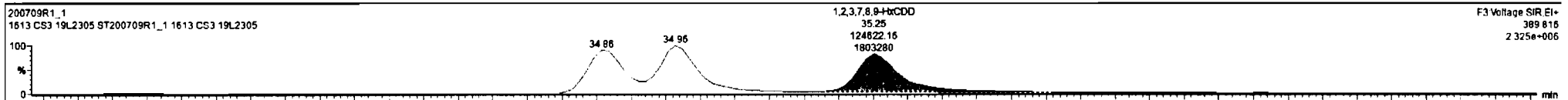
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NO	NAME	CONC	UNIT	RECOVERY	PRECISION	ACCURACY	REMARKS	DATE	TIME	LAB	ANALYST	INSTR	METHOD	STATUS	REMARKS
1	2,3,7,8-TCDD	8.52e4	7.15e5	0.77	0.74	NO	0.8883	28.52	28.50	NO	1.001	1.001	10.3	103	NO
2	1,2,3,7,8-PeCDD	2.57e5	5.83e5	0.63	0.61	NO	0.9081	31.49	31.48	NO	1.001	1.000	48.5	98.9	NO
3	1,2,3,4,7,8-HxCDD	2.22e5	4.32e5	1.24	1.24	NO	1.0334	34.86	34.86	NO	1.000	1.000	49.6	99.3	NO
5	1,2,3,7,8,9-HxCDD	2.34e5	5.80e5	1.24	1.25	NO	0.8889	35.28	35.25	NO	1.001	1.000	47.2	94.4	NO
6	1,2,3,4,6,7,8-HpCDD	1.84e5	4.18e5	1.04	1.04	NO	0.8639	38.80	38.81	NO	1.000	1.001	51.0	102	NO
7	OCDD	3.53e5	7.57e5	0.80	0.88	NO	0.9138	41.79	41.80	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	7.07e4	9.10e5	0.77	0.74	NO	0.7510	25.62	25.60	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	3.53e5	7.80e5	1.55	1.64	NO	0.8825	30.19	30.18	NO	1.001	1.001	49.9	99.8	NO
10	2,3,4,7,8-PeCDF	3.83e5	8.11e5	1.55	1.50	NO	0.8348	31.18	31.18	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	2.46e5	5.37e5	1.24	1.20	NO	0.8645	33.87	33.88	NO	1.000	1.000	51.7	103	NO
12	1,2,3,6,7,8-HxCDF	3.01e5	6.42e5	1.24	1.13	NO	0.8892	34.10	34.11	NO	1.000	1.001	52.7	105	NO
13	2,3,4,6,7,8-HxCDF	2.94e5	6.87e5	1.24	1.16	NO	0.9341	34.70	34.70	NO	1.001	1.001	51.9	104	NO
14	1,2,3,7,8,9-HxCDF	2.28e5	5.27e5	1.24	1.13	NO	0.8707	35.62	35.61	NO	1.001	1.000	49.3	98.6	NO
15	1,2,3,4,6,7,8-HpCDF	2.20e5	4.88e5	1.04	0.86	NO	0.8734	37.42	37.39	NO	1.001	1.000	54.2	108	NO
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.23e5	1.04	1.00	NO	1.0128	39.33	39.34	NO	1.000	1.000	52.2	104	NO
17	OCDF	3.48e5	8.42e5	0.80	0.88	NO	0.8085	41.98	41.99	NO	1.000	1.000	103	103	NO
18	13C-2,3,7,8-TCDD	7.15e5	6.15e5	0.77	0.78	NO	1.1583	26.48	26.48	NO	1.025	1.026	101	101	NO
19	13C-1,2,3,7,8-PeCDD	5.83e5	6.15e5	0.63	0.62	NO	0.8480	31.48	31.47	NO	1.219	1.219	112	112	NO
20	13C-1,2,3,4,7,8-HxCDD	4.32e5	5.58e5	1.24	1.27	NO	0.7790	34.84	34.85	NO	1.014	1.014	99.4	99.4	NO
21	13C-1,2,3,6,7,8-HxCDD	6.09e5	5.58e5	1.24	1.26	NO	1.0167	34.94	34.95	NO	1.017	1.017	107	107	NO



NO	NAME	CONC	UNIT	RECOVERY	PRECISION	ACCURACY	REMARKS	DATE	TIME	ANALYST	LAB	PROJECT	STATUS	REVISION	APPROVAL
1	2,3,7,8-TCDD	6.52e4	7.15e5	0.77	0.74	NO	0.8883	26.52	26.50	NO	1.001	1.001	10.3	103	NO
2	1,2,3,7,8-PeCDD	2.57e5	5.83e5	0.63	0.81	NO	0.9061	31.49	31.48	NO	1.001	1.000	48.5	98.9	NO
3	1,2,3,4,7,8-HxCDD	2.22e5	4.32e5	1.24	1.24	NO	1.0334	34.86	34.86	NO	1.000	1.000	49.6	99.3	NO
4	1,2,3,6,7,8-HxCDD	2.77e5	6.69e5	1.24	1.24	NO	0.8623	34.95	34.95	NO	1.000	1.000	51.0	102	NO
6	1,2,3,4,6,7,8-HpCDD	1.84e5	4.18e5	1.04	1.04	NO	0.8639	38.80	38.81	NO	1.000	1.001	51.0	102	NO
7	OCDD	3.53e5	7.57e5	0.88	0.88	NO	0.9136	41.79	41.80	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	7.07e4	9.10e5	0.77	0.74	NO	0.7510	25.62	25.60	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	3.53e5	7.83e5	1.55	1.64	NO	0.8925	30.19	30.18	NO	1.001	1.001	49.9	99.8	NO
10	2,3,4,7,8-PeCDF	3.83e5	8.11e5	1.55	1.50	NO	0.9348	31.18	31.18	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	2.46e5	5.37e5	1.24	1.20	NO	0.8845	33.97	33.98	NO	1.000	1.000	51.7	103	NO
12	1,2,3,6,7,8-HxCDF	3.01e5	6.43e5	1.24	1.13	NO	0.8882	34.10	34.11	NO	1.000	1.001	52.7	105	NO
13	2,3,4,6,7,8-HxCDF	2.94e5	6.07e5	1.24	1.16	NO	0.9341	34.70	34.70	NO	1.001	1.001	51.9	104	NO
14	1,2,3,7,8,9-HxCDF	2.26e5	5.27e5	1.24	1.13	NO	0.8707	35.82	35.81	NO	1.001	1.000	49.3	98.8	NO
15	1,2,3,4,6,7,8-HpCDF	2.20e5	4.68e5	1.04	0.96	NO	0.8734	37.42	37.38	NO	1.001	1.000	54.2	106	NO
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.23e5	1.04	1.00	NO	1.0128	39.33	39.34	NO	1.000	1.000	52.2	104	NO
17	OCDF	3.49e5	8.42e5	0.88	0.88	NO	0.8065	41.98	41.99	NO	1.000	1.000	103	103	NO
18	13C-2,3,7,8-TCDD	7.15e5	6.15e5	0.77	0.78	NO	1.1563	26.46	26.48	NO	1.025	1.026	101	101	NO
19	13C-1,2,3,7,8-PeCDD	5.83e5	6.15e5	0.63	0.62	NO	0.8480	31.48	31.47	NO	1.219	1.219	112	112	NO
20	13C-1,2,3,4,7,8-HxCDD	4.32e5	5.58e5	1.24	1.27	NO	0.7790	34.84	34.85	NO	1.014	1.014	99.4	99.4	NO
21	13C-1,2,3,6,7,8-HxCDD	6.09e5	5.58e5	1.24	1.28	NO	1.0167	34.94	34.95	NO	1.017	1.017	107	107	NO



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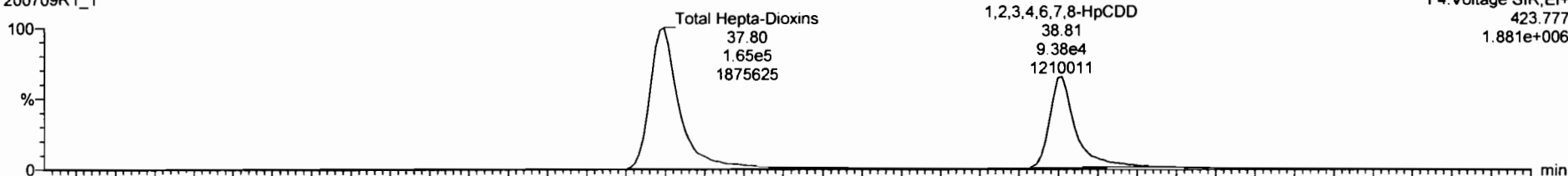
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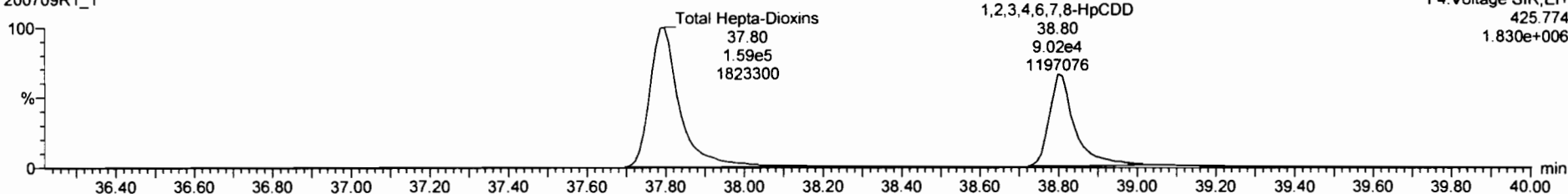
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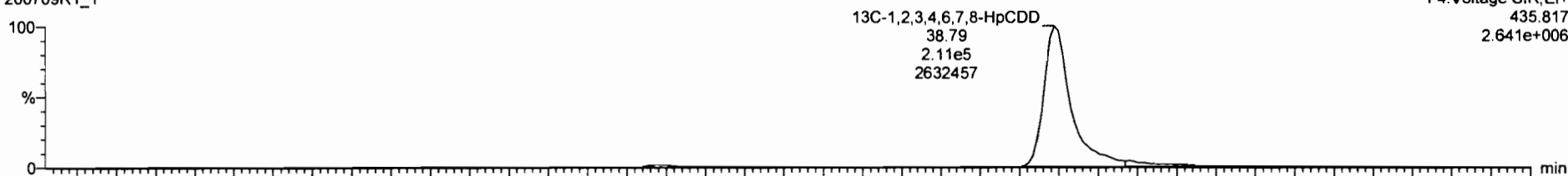


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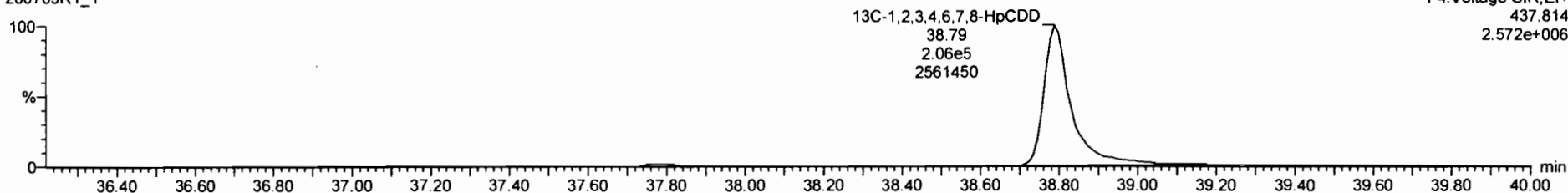


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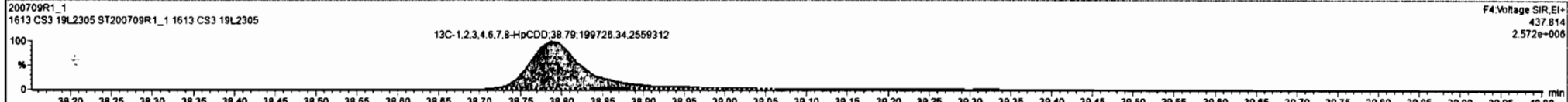
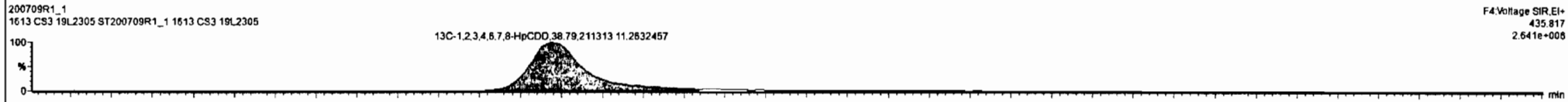
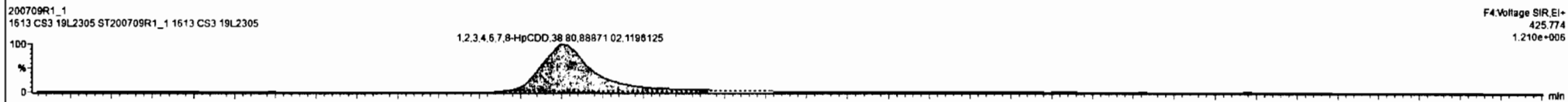
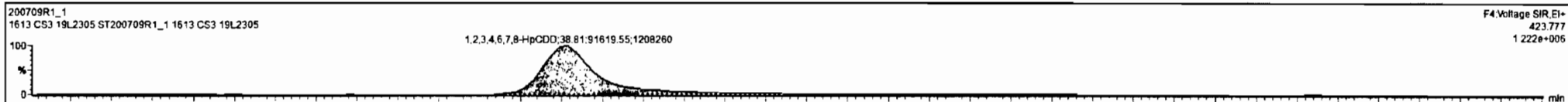
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200709R1_1



Peak #	Retention Time (min)	Area	Height	Width	Height/Width	Resolution	Resolution	Resolution	Resolution	Resolution	Resolution	Resolution	Resolution	Resolution	Resolution	Resolution	Resolution	Resolution	Resolution
1	2.3,7,8-TCDD	6.52e4	7.15e5	0.77	0.74	NO	0.8883	26.52	26.50	NO	1.001	1.001	10.3	103	NO				
2	1,2,3,7,8-PeCDD	2.57e5	5.83e5	0.63	0.61	NO	0.9661	31.49	31.48	NO	1.001	1.000	48.5	96.9	NO				
3	1,2,3,4,7,8-HxCDD	2.22e5	4.32e5	1.24	1.24	NO	1.0334	34.86	34.86	NO	1.000	1.000	49.8	99.3	NO				
4	1,2,3,6,7,8-HxCDD	2.77e5	6.09e5	1.24	1.24	NO	0.8823	34.95	34.95	NO	1.000	1.000	51.0	102	NO				
5	1,2,3,7,8,9-HxCDD	2.25e5	5.16e5	1.24	1.24	NO	0.8889	35.28	35.25	NO	1.001	1.000	49.3	98.6	NO				
7	OCDD	3.53e5	7.57e5	0.89	0.86	NO	0.9138	41.79	41.80	NO	1.000	1.000	102	102	NO				
8	2,3,7,8-TCDF	7.07e4	9.10e5	0.77	0.74	NO	0.7510	25.62	25.60	NO	1.001	1.001	10.3	103	NO				
9	1,2,3,7,8-PeCDF	3.53e5	7.93e5	1.55	1.64	NO	0.8925	30.19	30.18	NO	1.001	1.000	49.9	99.8	NO				
10	2,3,4,6,8-PeCDF	3.83e5	8.11e5	1.55	1.50	NO	0.9348	31.18	31.18	NO	1.001	1.000	50.4	101	NO				
11	1,2,3,4,7,8-HxCDF	2.46e5	5.37e5	1.24	1.20	NO	0.8845	33.97	33.98	NO	1.000	1.000	51.7	103	NO				
12	1,2,3,6,7,8-HxCDF	3.01e5	6.42e5	1.24	1.13	NO	0.8892	34.10	34.11	NO	1.000	1.001	52.7	105	NO				
13	2,3,4,6,7,8-HxCDF	2.94e5	6.07e5	1.24	1.16	NO	0.9341	34.70	34.70	NO	1.001	1.001	51.9	104	NO				
14	1,2,3,7,8,9-HxCDF	2.28e5	5.27e5	1.24	1.13	NO	0.8707	35.62	35.61	NO	1.001	1.000	49.3	98.6	NO				
15	1,2,3,4,6,7,8-HpCDF	2.20e5	4.96e5	1.04	0.98	NO	0.8734	37.42	37.39	NO	1.001	1.000	54.2	108	NO				
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.25e5	1.04	1.00	NO	1.0128	39.33	39.34	NO	1.000	1.000	52.2	104	NO				
17	OCDF	3.49e5	8.42e5	0.89	0.88	NO	0.8065	41.98	41.99	NO	1.000	1.000	103	103	NO				
18	13C-2,3,7,8-TCDD	7.15e5	6.15e5	0.77	0.78	NO	1.1563	26.46	26.48	NO	1.025	1.026	101	101	NO				
19	13C-1,2,3,7,8-PeCDD	5.83e5	6.15e5	0.63	0.62	NO	0.8490	31.48	31.47	NO	1.219	1.219	112	112	NO				
20	13C-1,2,3,4,7,8-HxCDD	4.32e5	5.58e5	1.24	1.27	NO	0.7790	34.84	34.85	NO	1.014	1.014	99.4	99.4	NO				
21	13C-1,2,3,6,7,8-HxCDD	6.09e5	5.58e5	1.24	1.26	NO	1.0167	34.94	34.95	NO	1.017	1.017	107	107	NO				

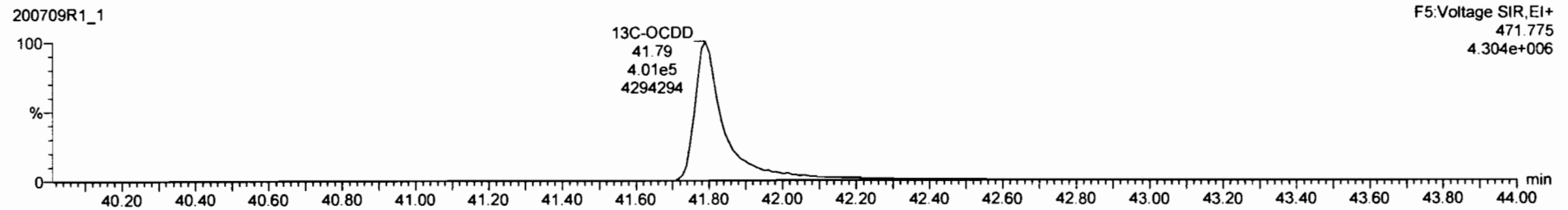
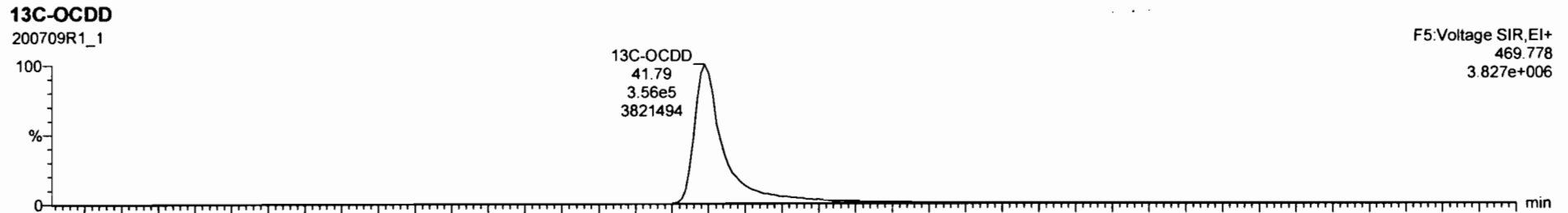
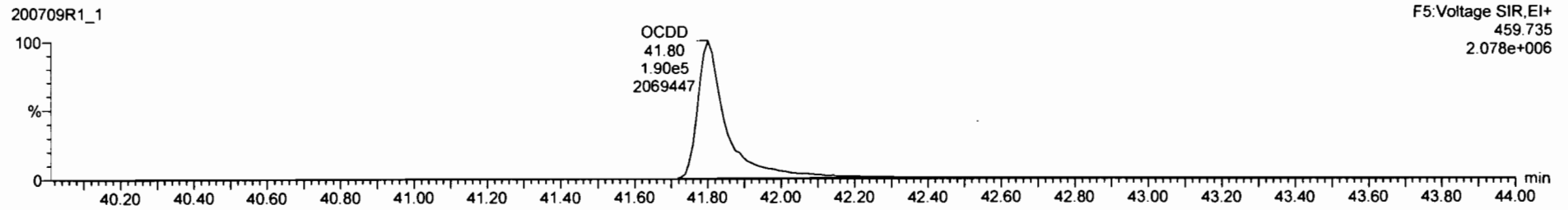
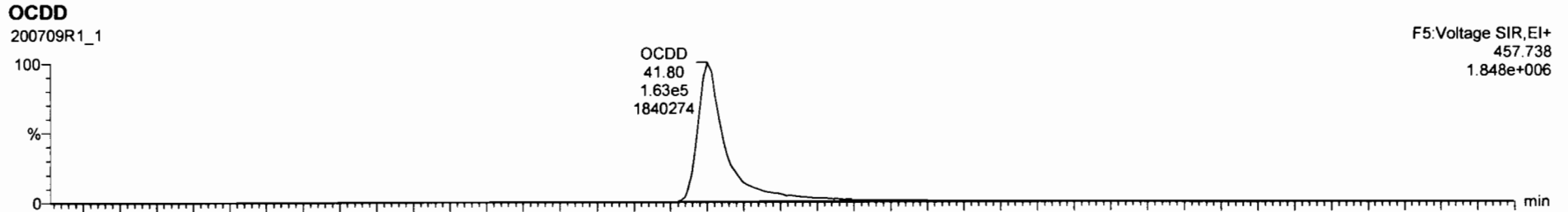


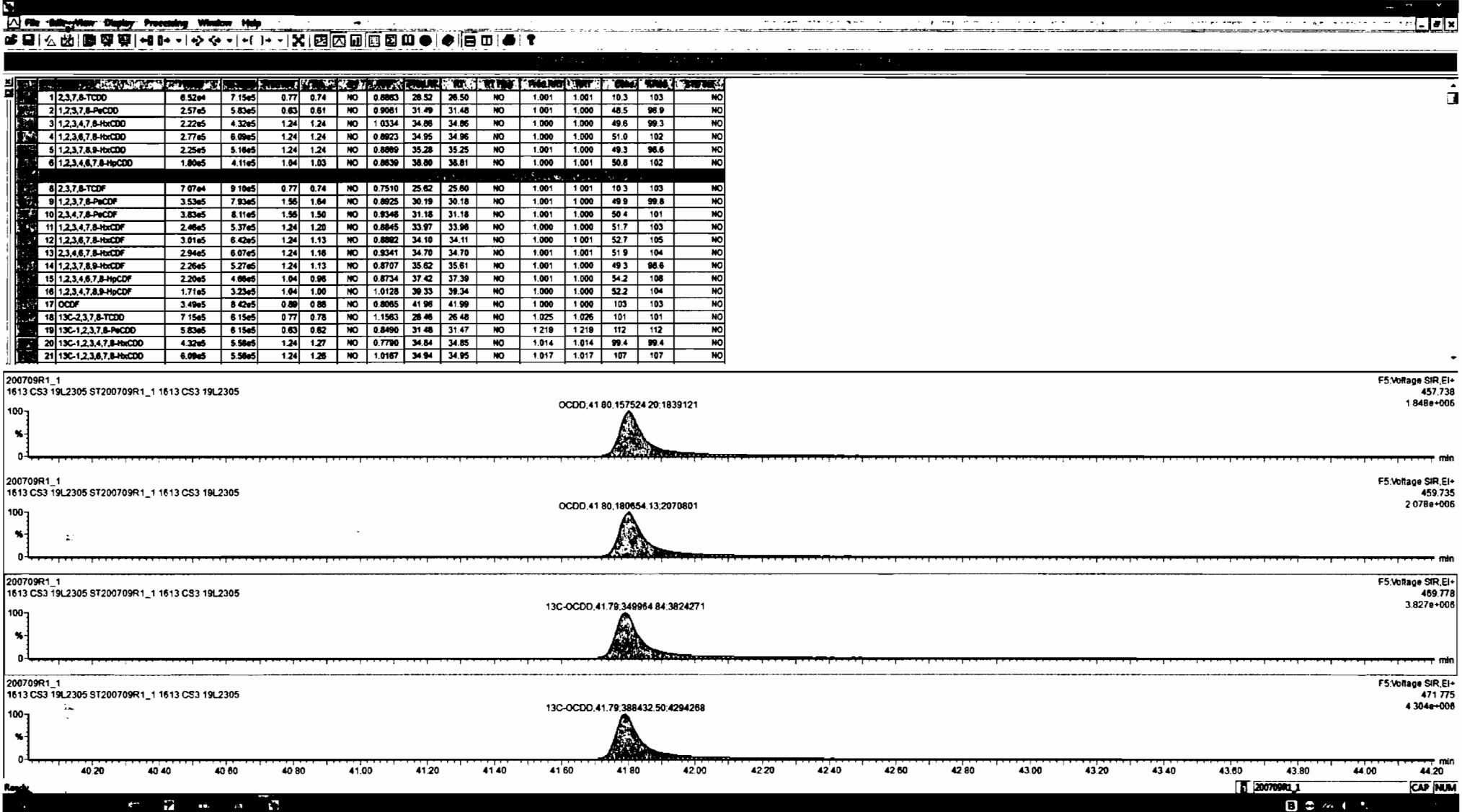
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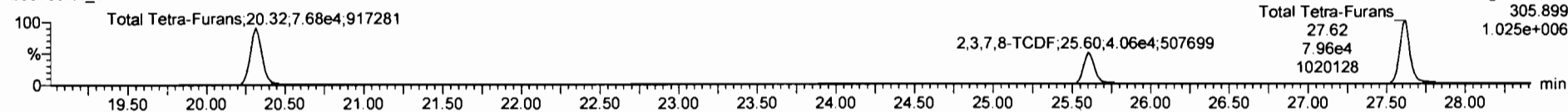
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2,3,7,8-TCDF

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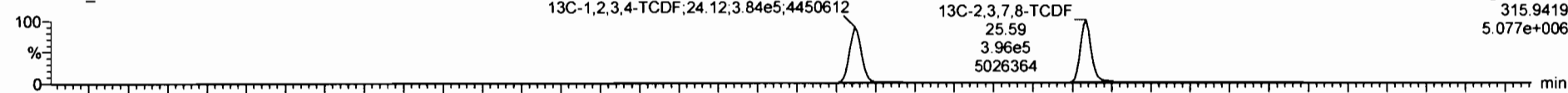


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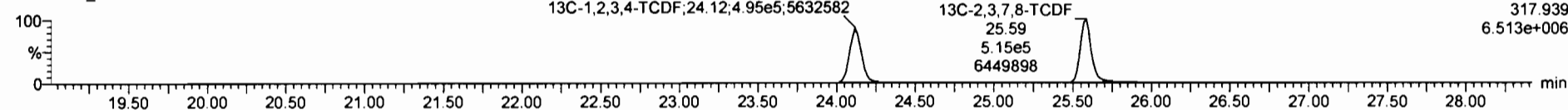


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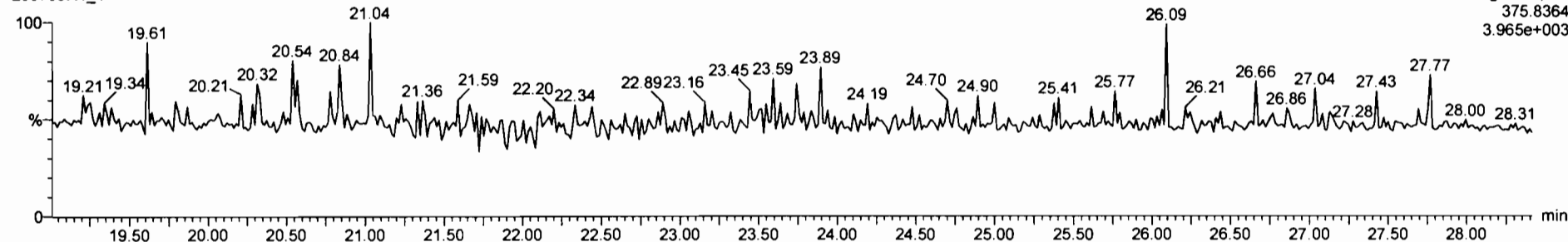


200709R1_1



DPE1

200709R1_1



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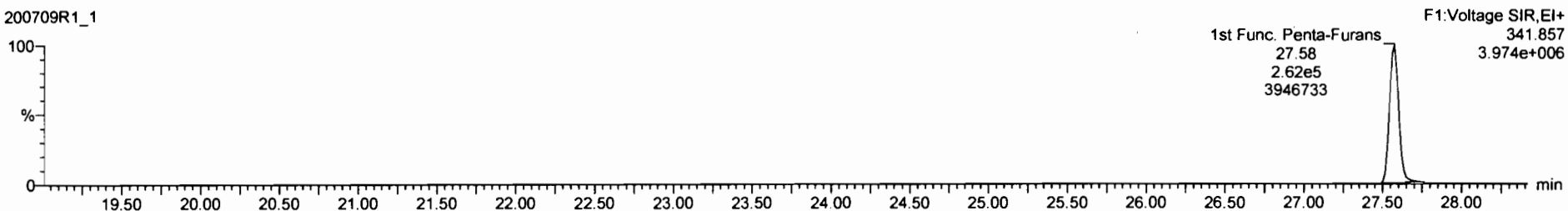
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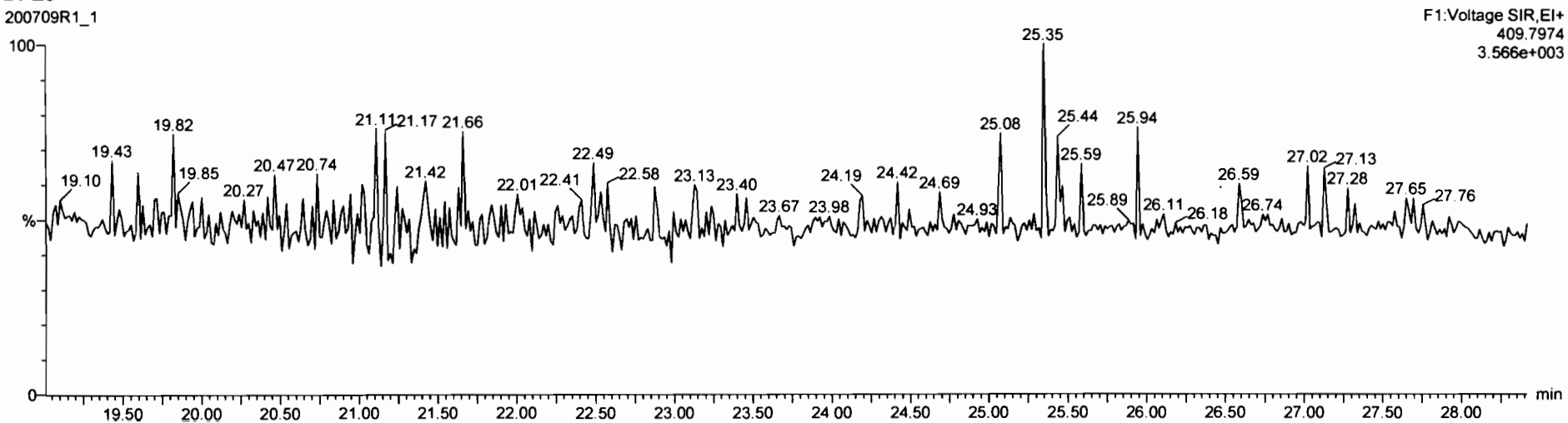


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DPE6

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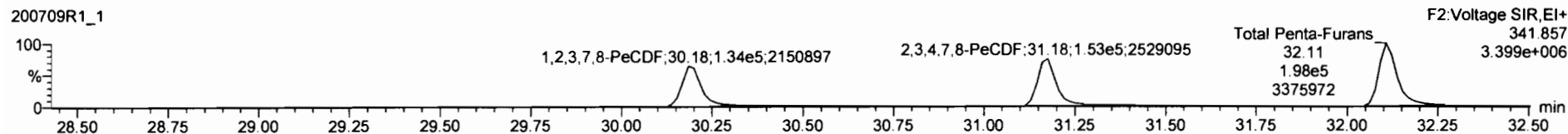
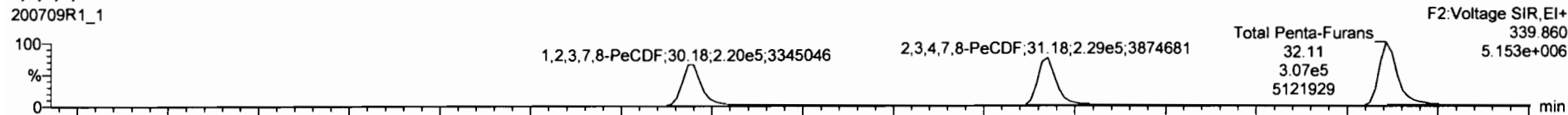


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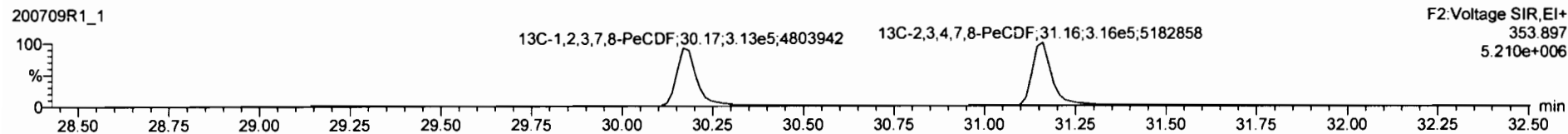
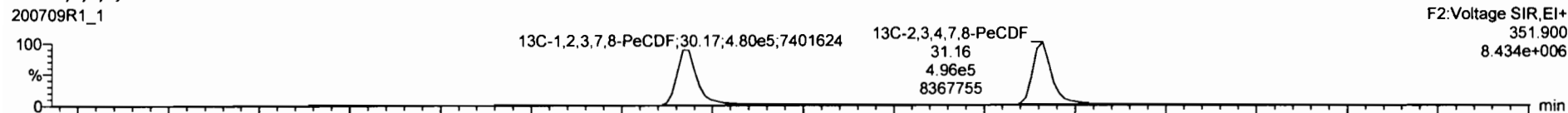
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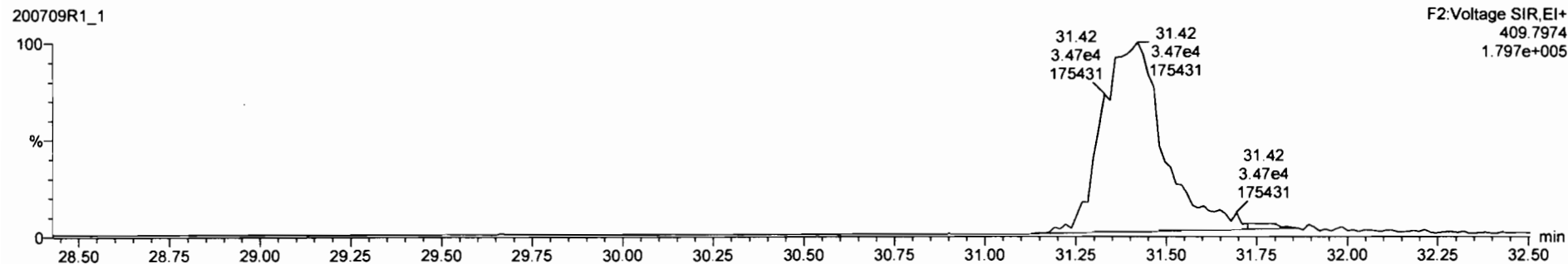
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13C-1,2,3,7,8-PeCDF



DPE2



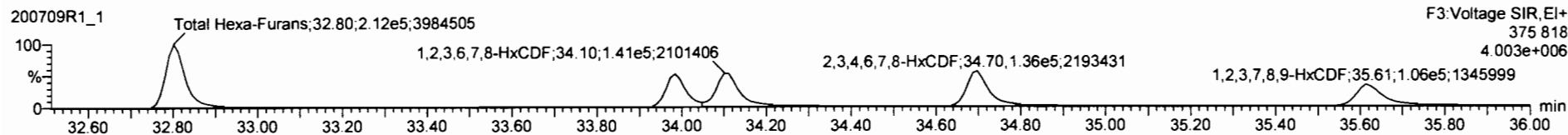
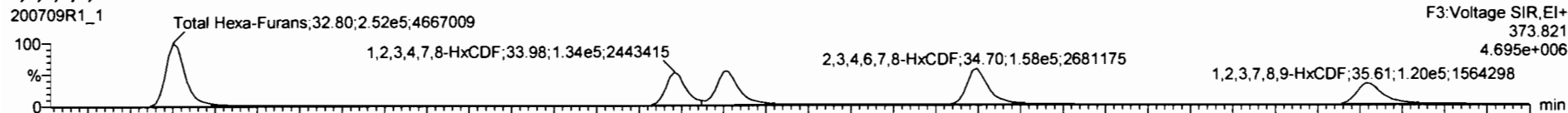
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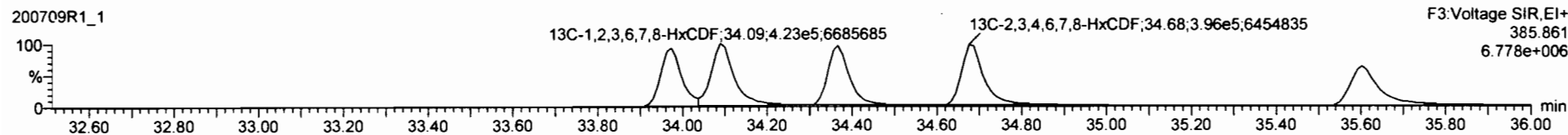
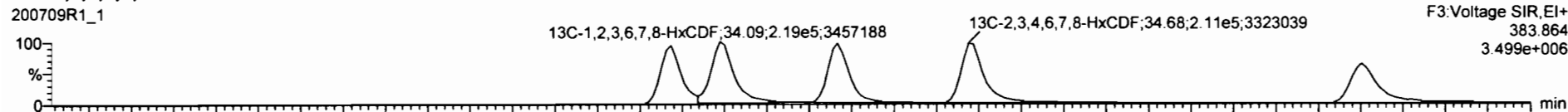
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Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

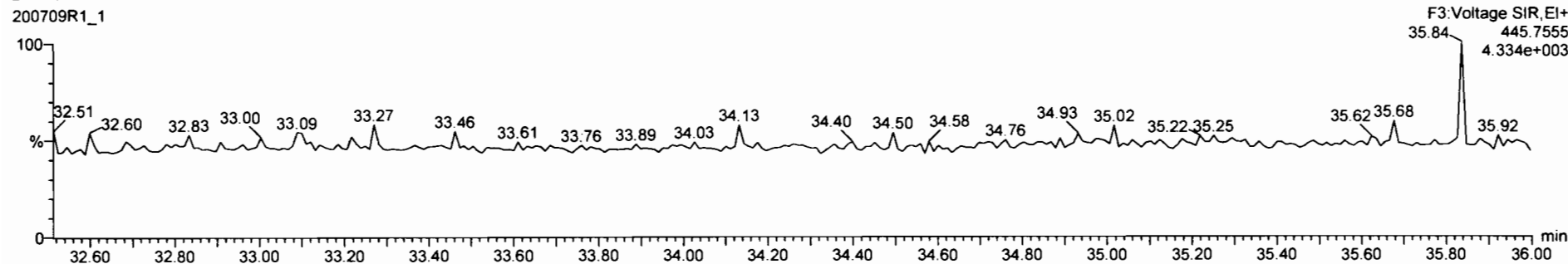
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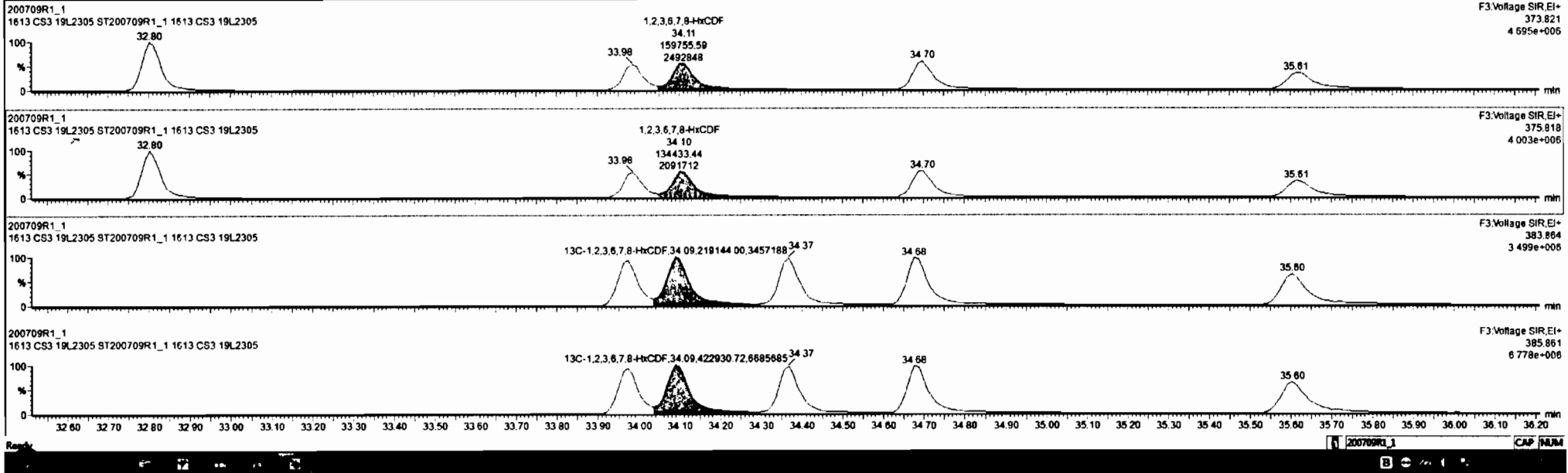
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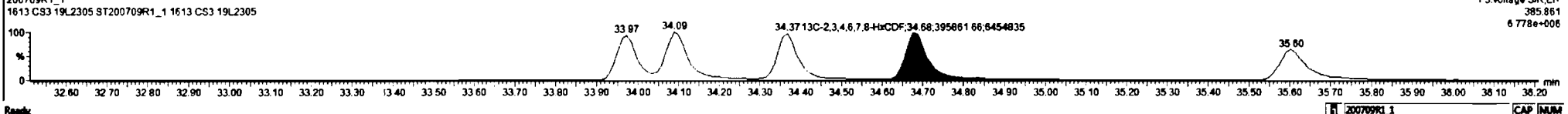
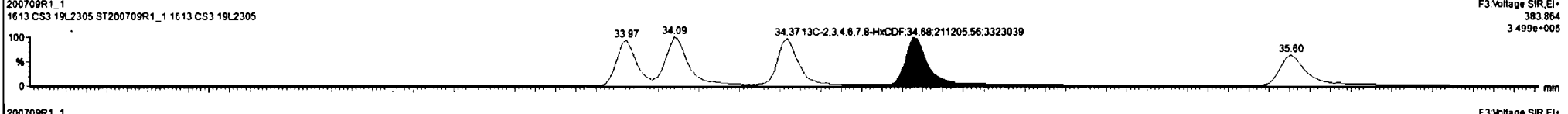
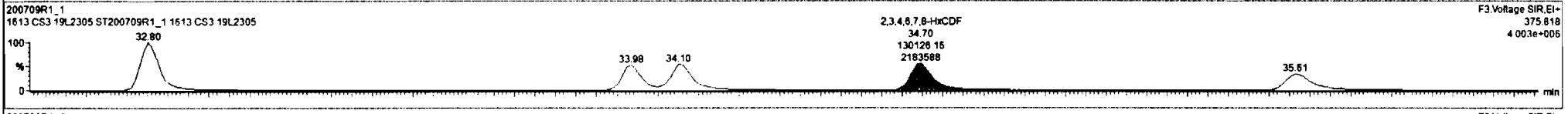
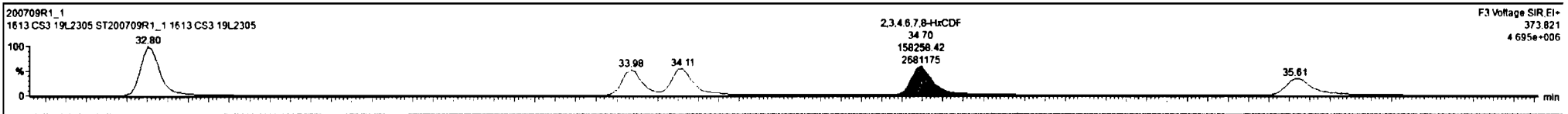
DPE3



Peak	Retention	Area	Height	Width	Asym	Tail	SN	Ident	Library	Ref	Library	Ref	Library	Ref	Library	Ref	Library	Ref
1	1,2,3,7,8-TCDD	6.52e4	7.15e5	0.77	0.74	NO	0.8683	26.52	26.50	NO	1.001	1.001	10.3	103	NO			
2	1,2,3,7,8-PeCDD	2.57e5	5.83e5	0.83	0.61	NO	0.9061	31.49	31.48	NO	1.001	1.000	48.5	98.9	NO			
3	1,2,3,4,7,8-HxCDD	2.22e5	4.32e5	1.24	1.24	NO	1.0334	34.86	34.86	NO	1.000	1.000	49.6	99.3	NO			
4	1,2,3,6,7,8-HxCDD	2.77e5	6.99e5	1.24	1.24	NO	0.8623	34.95	34.96	NO	1.000	1.000	51.0	102	NO			
5	1,2,3,7,8,9-HxCDD	2.25e5	5.18e5	1.24	1.24	NO	0.8899	35.26	35.25	NO	1.001	1.000	49.3	98.6	NO			
6	1,2,3,4,6,7,8-HpCDD	1.80e5	4.11e5	1.04	1.03	NO	0.8639	36.80	36.81	NO	1.000	1.001	50.6	102	NO			
7	OCDD	3.38e5	7.38e5	0.80	0.87	NO	0.9136	41.79	41.80	NO	1.000	1.000	100	100	NO			
8	2,3,7,8-TCDF	7.07e4	9.10e5	0.77	0.74	NO	0.7510	25.62	25.60	NO	1.001	1.001	10.3	103	NO			
9	1,2,3,7,8-PeCDF	3.53e5	7.93e5	1.55	1.64	NO	0.8625	30.19	30.18	NO	1.001	1.000	49.9	99.8	NO			
10	2,3,4,7,8-PeCDF	3.83e5	8.11e5	1.55	1.50	NO	0.9348	31.18	31.18	NO	1.001	1.000	50.4	101	NO			
11	1,2,3,4,7,8-HxCDF	2.46e5	5.37e5	1.24	1.20	NO	0.8845	33.97	33.96	NO	1.000	1.000	51.7	103	NO			
13	2,3,4,6,7,8-HxCDF	2.94e5	6.07e5	1.24	1.16	NO	0.9341	34.70	34.70	NO	1.001	1.001	51.9	104	NO			
14	1,2,3,7,8,9-HxCDF	2.26e5	5.27e5	1.24	1.13	NO	0.8707	35.62	35.61	NO	1.001	1.000	49.3	98.6	NO			
15	1,2,3,4,6,7,8-HpCDF	2.20e5	4.66e5	1.04	0.98	NO	0.8734	37.42	37.38	NO	1.001	1.000	54.2	108	NO			
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.23e5	1.04	1.00	NO	1.0128	39.33	39.34	NO	1.000	1.000	52.2	104	NO			
17	OCDF	3.49e5	8.42e5	0.89	0.88	NO	0.8685	41.98	41.99	NO	1.000	1.000	103	103	NO			
18	13C-2,3,7,8-TCDD	7.15e5	8.15e5	0.77	0.78	NO	1.1563	26.46	26.48	NO	1.025	1.026	101	101	NO			
19	13C-1,2,3,7,8-PeCDD	5.63e5	8.15e5	0.83	0.62	NO	0.8490	31.48	31.47	NO	1.219	1.219	112	112	NO			
20	13C-1,2,3,4,7,8-HxCDD	4.32e5	5.98e5	1.24	1.27	NO	0.7790	34.84	34.85	NO	1.014	1.014	99.4	99.4	NO			
21	13C-1,2,3,6,7,8-HxCDD	6.09e5	5.58e5	1.24	1.26	NO	1.0167	34.94	34.95	NO	1.017	1.017	107	107	NO			



NO	NAME	CONC	UNIT	RECOVER	RECOVERY	NO	CONC	UNIT	RECOVER	RECOVERY	NO	CONC	UNIT	RECOVER	RECOVERY	NO	CONC	UNIT	RECOVER	RECOVERY
1	2,3,7,8-TCDD	6.52e4	7.15e5	0.77	0.74	NO	0.6663	26.52	26.50	NO	1.001	1.001	10.3	103	NO					
2	1,2,3,7,8-PeCDD	2.57e5	5.83e5	0.83	0.81	NO	0.9981	31.49	31.48	NO	1.001	1.000	46.5	96.9	NO					
3	1,2,3,4,7,8-HxCDD	2.22e5	4.32e5	1.24	1.24	NO	1.0334	34.86	34.86	NO	1.000	1.000	49.6	99.3	NO					
4	1,2,3,6,7,8-HxCDD	2.77e5	8.09e5	1.24	1.24	NO	0.8823	34.95	34.96	NO	1.000	1.000	51.0	102	NO					
5	1,2,3,7,8,9-HxCDD	2.25e5	5.16e5	1.24	1.24	NO	0.8899	35.28	35.25	NO	1.001	1.000	49.3	98.6	NO					
6	1,2,3,4,6,7,8-HpCDD	1.80e5	4.11e5	1.84	1.03	NO	0.8639	38.80	38.81	NO	1.000	1.001	50.8	102	NO					
7	OCDD	3.38e5	7.38e5	0.88	0.87	NO	0.9136	41.79	41.80	NO	1.000	1.000	100	100	NO					
8	2,3,7,8-TCDF	7.07e4	9.10e5	0.77	0.74	NO	0.7510	25.62	25.60	NO	1.001	1.001	10.3	103	NO					
9	1,2,3,7,8-PeCDF	3.53e5	7.90e5	1.55	1.84	NO	0.8825	30.19	30.18	NO	1.001	1.000	49.9	99.8	NO					
10	2,3,4,7,8-PeCDF	3.83e5	8.11e5	1.55	1.50	NO	0.9348	31.18	31.18	NO	1.001	1.000	50.4	101	NO					
11	1,2,3,4,7,8-HxCDF	2.46e5	5.37e5	1.24	1.20	NO	0.8845	33.97	33.98	NO	1.000	1.000	51.7	103	NO					
12	1,2,3,6,7,8-HxCDF	2.94e5	6.42e5	1.24	1.19	NO	0.8892	34.10	34.11	NO	1.000	1.001	51.5	103	NO					
14	1,2,3,7,8,9-HxCDF	2.26e5	5.27e5	1.24	1.13	NO	0.8707	35.62	35.61	NO	1.001	1.000	49.3	98.6	NO					
15	1,2,3,4,6,7,8-HpCDF	2.20e5	4.89e5	1.04	0.98	NO	0.8734	37.42	37.39	NO	1.001	1.000	54.2	108	NO					
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.23e5	1.04	1.00	NO	1.0128	39.33	39.34	NO	1.000	1.000	52.2	104	NO					
17	DCDF	3.49e5	8.42e5	0.89	0.88	NO	0.8085	41.98	41.99	NO	1.000	1.000	103	103	NO					
18	13C-2,3,7,8-TCDD	7.15e5	6.15e5	0.77	0.78	NO	1.1563	26.46	26.48	NO	1.025	1.026	101	101	NO					
19	13C-1,2,3,7,8-PeCDD	5.83e5	6.15e5	0.83	0.82	NO	0.8490	31.48	31.47	NO	1.219	1.219	112	112	NO					
20	13C-1,2,3,4,7,8-HxCDD	4.32e5	5.58e5	1.24	1.27	NO	0.7790	34.84	34.85	NO	1.014	1.014	99.4	99.4	NO					
21	13C-1,2,3,6,7,8-HxCDD	6.09e5	5.58e5	1.24	1.26	NO	1.0167	34.94	34.95	NO	1.017	1.017	107	107	NO					



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Last Altered: Thursday, July 09, 2020 9:12:14 AM Pacific Daylight Time

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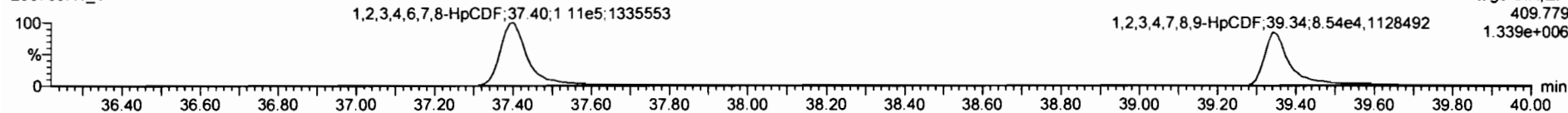
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1,2,3,4,6,7,8-HpCDF

200709R1_1



200709R1_1

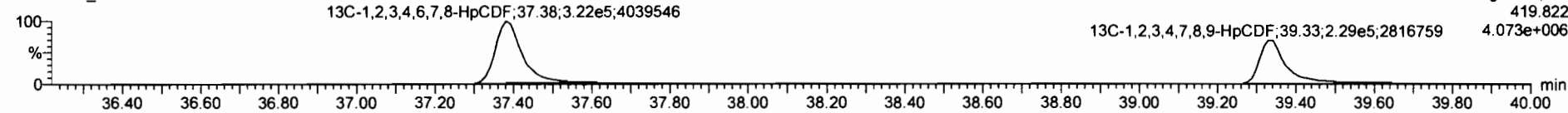


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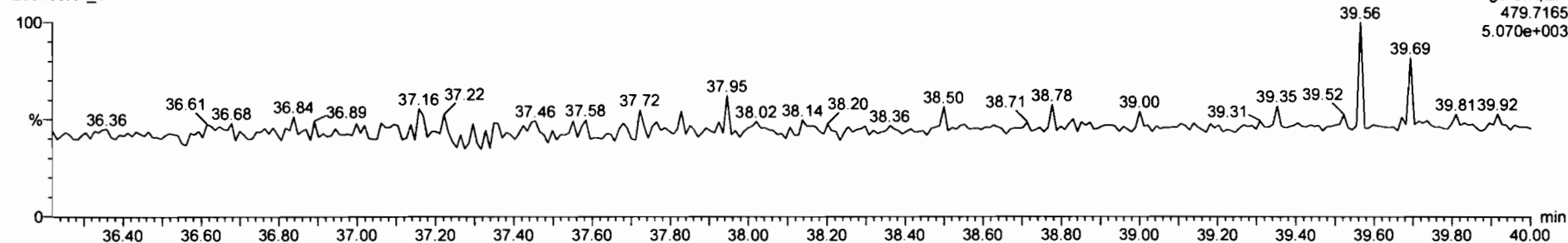


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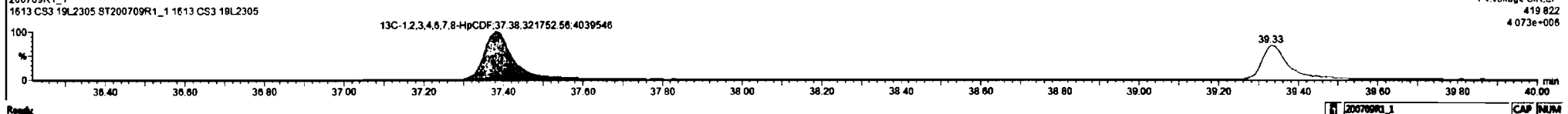
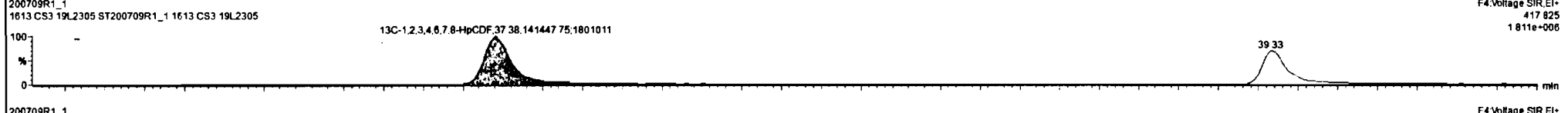
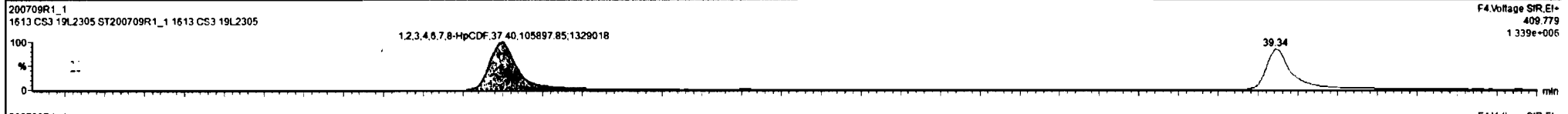
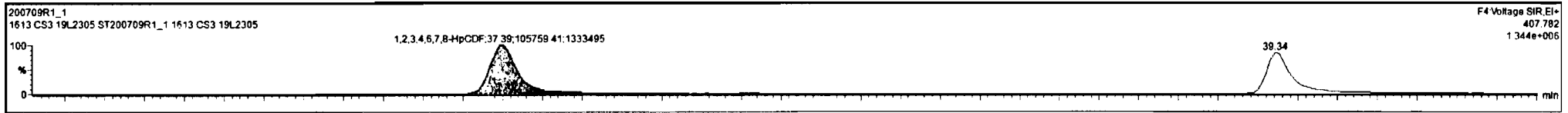


DPE4

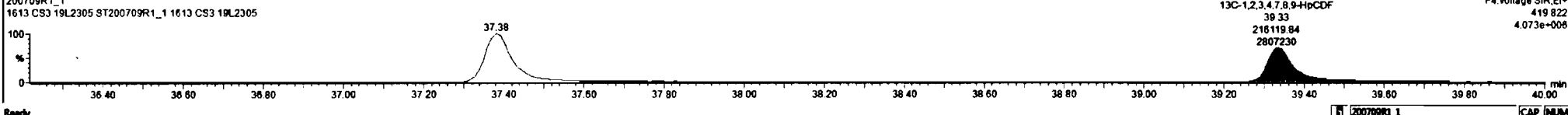
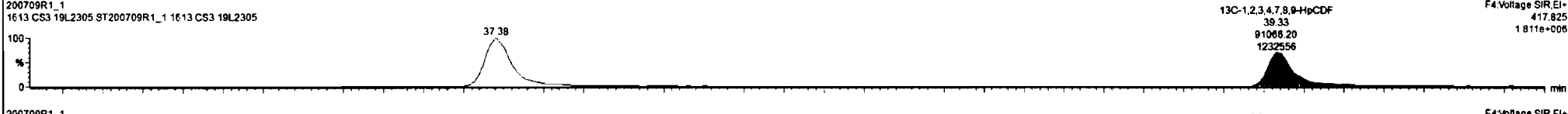
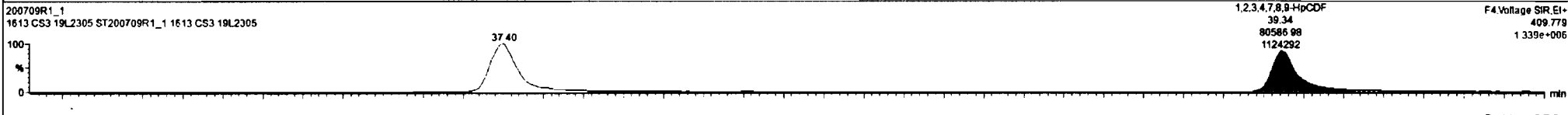
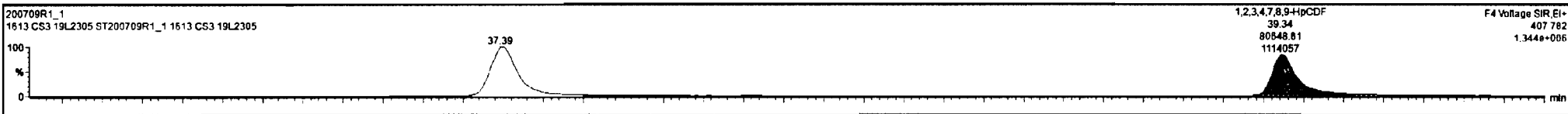
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NO.	NAME	CONC	UNIT	RECOVER	REJECT	NO.	NAME	CONC	UNIT	RECOVER	REJECT	NO.	NAME	CONC	UNIT	RECOVER	REJECT
1	2,3,7,8-TCDD	6.52e4	7.15e5	0.77	0.74	NO	0.8853	26.52	26.50	NO	1.001	1.001	10.3	103	NO		
2	1,2,3,7,8-PeCDD	2.57e5	5.83e5	0.63	0.61	NO	0.9061	31.49	31.48	NO	1.001	1.000	48.5	98.9	NO		
3	1,2,3,4,7,8-HxCDD	2.22e5	4.32e5	1.24	1.24	NO	1.0334	34.86	34.86	NO	1.000	1.000	49.6	99.3	NO		
4	1,2,3,6,7,8-HxCDD	2.77e5	6.09e5	1.24	1.24	NO	0.8923	34.95	34.95	NO	1.000	1.000	51.0	102	NO		
9	1,2,3,7,8,9-HxCDD	2.25e5	5.16e5	1.24	1.24	NO	0.8969	35.28	35.25	NO	1.001	1.000	49.3	98.8	NO		
6	1,2,3,4,6,7,8-HpCDD	1.60e5	4.11e5	1.84	1.83	NO	0.8639	36.80	36.81	NO	1.000	1.001	50.8	102	NO		
7	OCDD	3.38e5	7.38e5	0.80	0.87	NO	0.9136	41.79	41.80	NO	1.000	1.000	100	100	NO		
8	2,3,7,8-TCDF	7.07e4	9.10e5	0.77	0.74	NO	0.7510	25.62	25.60	NO	1.001	1.001	10.3	103	NO		
9	1,2,3,7,8-PeCDF	3.53e5	7.93e5	1.55	1.64	NO	0.8625	30.19	30.18	NO	1.001	1.000	49.9	99.8	NO		
10	2,3,4,7,8-PeCDF	3.83e5	8.11e5	1.55	1.50	NO	0.8348	31.18	31.18	NO	1.001	1.000	50.4	101	NO		
11	1,2,3,4,7,8-HxCDF	2.46e5	5.37e5	1.24	1.20	NO	0.8845	33.97	33.98	NO	1.000	1.000	51.7	103	NO		
12	1,2,3,6,7,8-HxCDF	2.94e5	6.43e5	1.24	1.19	NO	0.8882	34.10	34.11	NO	1.000	1.001	51.5	103	NO		
13	2,3,4,6,7,8-HxCDF	2.88e5	6.07e5	1.24	1.22	NO	0.9341	34.70	34.70	NO	1.001	1.001	50.9	102	NO		
14	1,2,3,7,8,9-HxCDF	2.28e5	5.11e5	1.24	1.22	NO	0.8707	35.62	35.61	NO	1.001	1.000	51.2	102	NO		
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.23e5	1.04	1.00	NO	1.0128	39.33	39.34	NO	1.000	1.000	52.2	104	NO		
17	OCDF	3.49e5	8.42e5	0.80	0.88	NO	0.8085	41.98	41.99	NO	1.000	1.000	103	103	NO		
18	13C-2,3,7,8-TCDD	7.15e5	6.15e5	0.77	0.78	NO	1.1563	26.46	26.48	NO	1.025	1.026	101	101	NO		
19	13C-1,2,3,7,8-PeCDD	5.83e5	6.15e5	0.63	0.62	NO	0.8490	31.48	31.47	NO	1.219	1.219	112	112	NO		
20	13C-1,2,3,4,7,8-HxCDD	4.32e5	5.58e5	1.24	1.27	NO	0.7790	34.64	34.85	NO	1.014	1.014	99.4	99.4	NO		
21	13C-1,2,3,6,7,8-HxCDD	6.09e5	5.58e5	1.24	1.26	NO	1.0167	34.84	34.95	NO	1.017	1.017	107	107	NO		



NO	NAME	CONC	UNIT	RECOVERY	PRECISION	ACCURACY	REMARKS	DATE	TIME	ANALYST	LAB	CLIENT	PROJECT	STATUS	
1	2,3,7,8-TCDD	6.52e4	7.15e5	0.77	0.74	NO	0.8863	28.52	26.50	NO	1.001	1.001	10.3	103	NO
2	1,2,3,7,8-PeCDD	2.57e5	5.83e5	0.63	0.61	NO	0.9081	31.49	31.48	NO	1.001	1.000	46.5	96.9	NO
3	1,2,3,4,7,8-HxCDD	2.22e5	4.32e5	1.24	1.24	NO	1.0334	34.86	34.86	NO	1.000	1.000	49.6	99.3	NO
4	1,2,3,6,7,8-HxCDD	2.77e5	6.09e5	1.24	1.24	NO	0.8823	34.95	34.96	NO	1.000	1.000	51.0	102	NO
5	1,2,3,7,8,9-HxCDD	2.25e5	5.18e5	1.24	1.24	NO	0.8889	35.28	35.25	NO	1.001	1.000	49.3	98.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.80e5	4.11e5	1.04	1.03	NO	0.8839	36.80	36.81	NO	1.000	1.001	50.8	102	NO
7	OCDD	3.38e5	7.38e5	0.88	0.87	NO	0.9138	41.79	41.80	NO	1.000	1.000	100	100	NO
8	2,3,7,8-TCDF	7.07e4	9.10e5	0.77	0.74	NO	0.7510	28.62	26.60	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	3.53e5	7.93e5	1.56	1.64	NO	0.8825	30.19	30.18	NO	1.001	1.000	49.9	99.8	NO
10	2,3,4,7,8-PeCDF	3.83e5	8.11e5	1.56	1.50	NO	0.9348	31.18	31.18	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	2.48e5	5.37e5	1.24	1.20	NO	0.8845	33.97	33.98	NO	1.000	1.000	51.7	103	NO
12	1,2,3,6,7,8-HxCDF	2.84e5	6.42e5	1.24	1.19	NO	0.8882	34.10	34.11	NO	1.000	1.001	51.5	103	NO
13	2,3,4,6,7,8-HxCDF	2.88e5	6.07e5	1.24	1.22	NO	0.9341	34.70	34.70	NO	1.001	1.001	50.9	102	NO
14	1,2,3,7,8,9-HxCDF	2.28e5	5.11e5	1.24	1.22	NO	0.8707	35.62	35.61	NO	1.001	1.000	51.2	102	NO
15	1,2,3,4,6,7,8-HpCDF	2.12e5	4.83e5	1.04	1.00	NO	0.8734	37.42	37.39	NO	1.001	1.000	52.3	105	NO
17	OCDF	3.49e5	8.42e5	0.88	0.88	NO	0.8885	41.88	41.99	NO	1.000	1.000	103	103	NO
18	13C-2,3,7,8-TCDD	7.15e5	6.15e5	0.77	0.78	NO	1.1563	28.46	26.48	NO	1.025	1.026	101	101	NO
19	13C-1,2,3,7,8-PeCDD	5.83e5	6.15e5	0.63	0.62	NO	0.8480	31.48	31.47	NO	1.219	1.219	112	112	NO
20	13C-1,2,3,4,7,8-HxCDD	4.32e5	5.58e5	1.24	1.27	NO	0.7790	34.84	34.85	NO	1.014	1.014	99.4	99.4	NO
21	13C-1,2,3,6,7,8-HxCDD	6.09e5	5.58e5	1.24	1.28	NO	1.0167	34.94	34.95	NO	1.017	1.017	107	107	NO

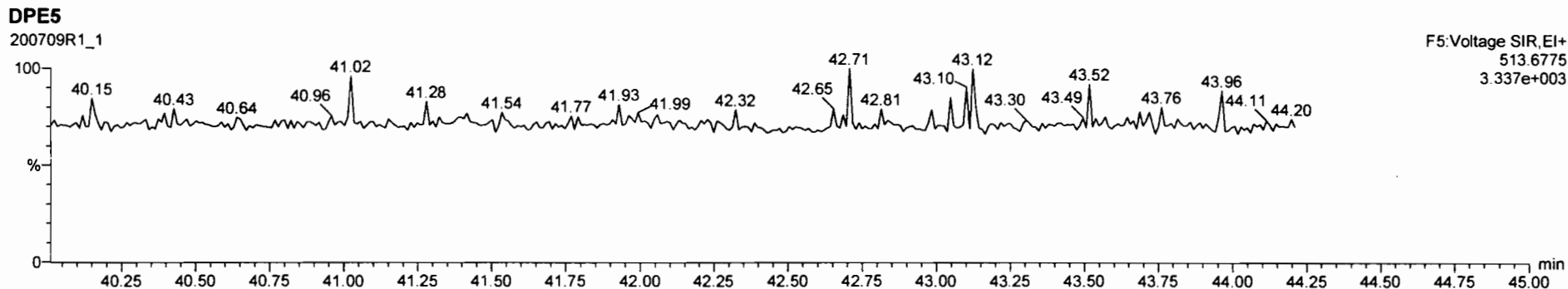
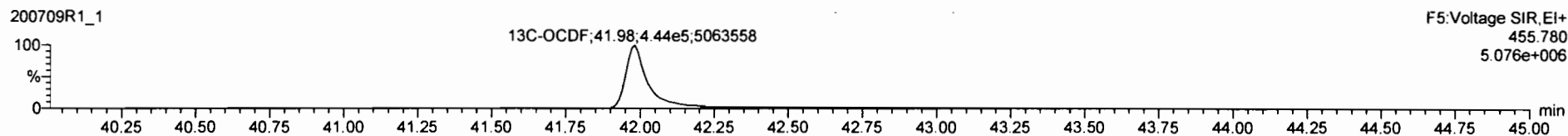
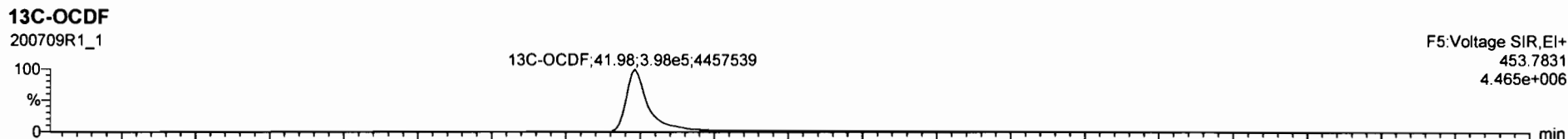
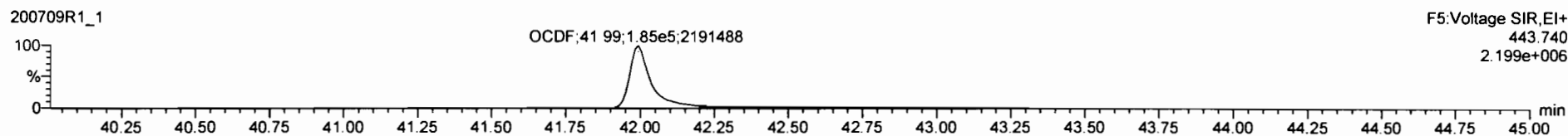
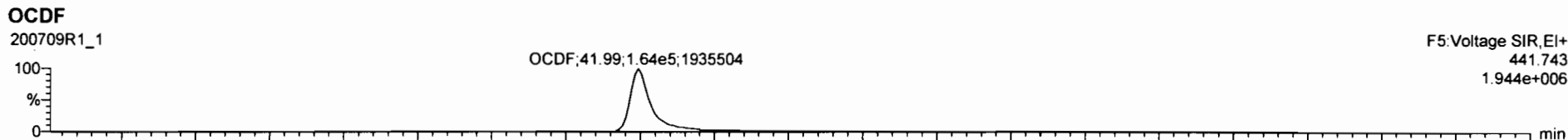


Dataset: Untitled

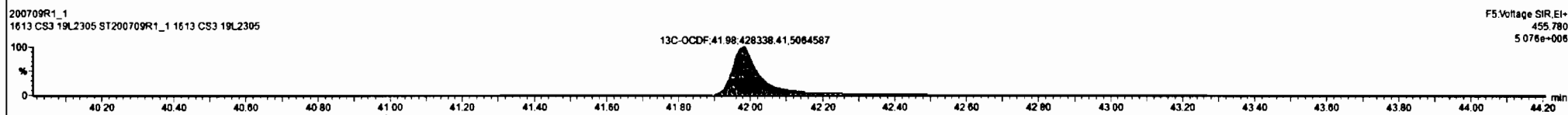
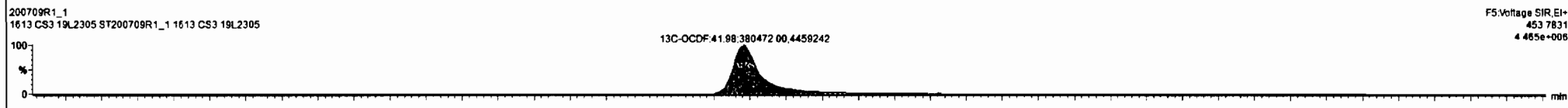
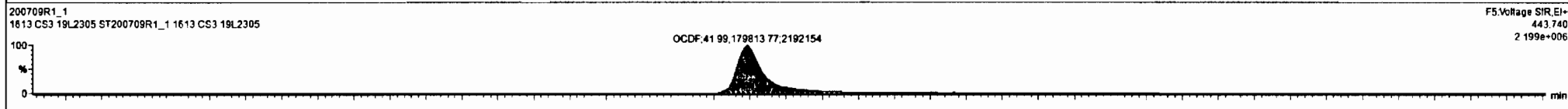
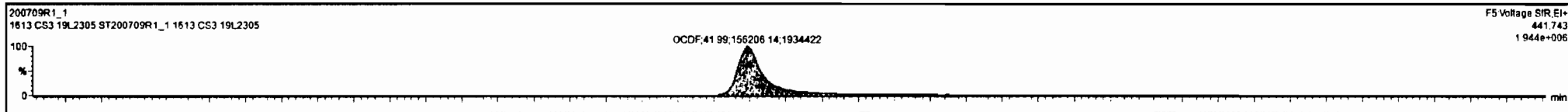
Last Altered: Thursday, July 09, 2020 9:12:14 AM Pacific Daylight Time

Printed: Thursday, July 09, 2020 9:12:19 AM Pacific Daylight Time

Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



ID	Compound	Area	Height	Width	Retention	Response	Concentration	Recovery	Method	Unit	Std	Std	Std		
1	2,3,7,8-TCDD	6.52e5	7.15e5	0.77	0.74	NO	0.8883	28.52	28.50	NO	1.001	1.001	10.3	103	NO
2	1,2,3,7,8-PeCDD	2.57e5	5.83e5	0.63	0.61	NO	0.9081	31.49	31.48	NO	1.001	1.000	48.5	98.9	NO
3	1,2,3,4,7,8-HxCDD	2.22e5	4.32e5	1.24	1.24	NO	1.0334	34.86	34.86	NO	1.000	1.000	49.6	99.3	NO
4	1,2,3,6,7,8-HxCDD	2.77e5	6.09e5	1.24	1.24	NO	0.8623	34.95	34.96	NO	1.000	1.000	51.0	102	NO
5	1,2,3,7,8,9-HxCDD	2.25e5	5.18e5	1.24	1.24	NO	0.8899	35.28	35.25	NO	1.001	1.000	49.3	98.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.80e5	4.11e5	1.04	1.03	NO	0.8639	36.80	36.81	NO	1.000	1.001	50.8	102	NO
7	OCDD	3.38e5	7.38e5	0.89	0.87	NO	0.9136	41.79	41.80	NO	1.000	1.000	100	100	NO
8	2,3,7,8-TCDF	7.07e4	9.10e5	0.77	0.74	NO	0.7510	25.62	25.60	NO	1.001	1.001	10.3	103	NO
9	1,2,3,7,8-PeCDF	3.53e5	7.93e5	1.56	1.64	NO	0.8925	30.19	30.18	NO	1.001	1.000	49.9	99.8	NO
10	2,3,4,7,8-PeCDF	3.83e5	8.11e5	1.56	1.50	NO	0.9348	31.18	31.18	NO	1.001	1.000	50.4	101	NO
11	1,2,3,4,7,8-HxCDF	2.46e5	5.37e5	1.24	1.20	NO	0.8645	33.97	33.96	NO	1.000	1.000	51.7	103	NO
12	1,2,3,6,7,8-HxCDF	2.94e5	6.42e5	1.24	1.19	NO	0.8982	34.10	34.11	NO	1.000	1.001	51.5	103	NO
13	2,3,4,6,7,8-HxCDF	2.88e5	6.67e5	1.24	1.22	NO	0.9341	34.70	34.70	NO	1.001	1.001	50.9	102	NO
14	1,2,3,7,8,9-HxCDF	2.28e5	5.11e5	1.24	1.22	NC	0.8707	35.62	35.61	NO	1.001	1.000	51.2	102	NO
15	1,2,3,4,6,7,8-HpCDF	2.12e5	4.83e5	1.04	1.00	NC	0.8734	37.42	37.39	NO	1.001	1.000	52.3	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.61e5	3.97e5	1.04	1.00	NO	1.0128	38.33	38.34	NO	1.000	1.000	51.6	104	NO
18	13C-2,3,7,8-TCDD	7.15e5	6.15e5	0.77	0.78	NO	1.1583	28.48	28.48	NO	1.025	1.026	101	101	NO
19	13C-1,2,3,7,8-PeCDD	5.83e5	6.15e5	0.63	0.62	NO	0.8490	31.48	31.47	NO	1.219	1.219	112	112	NO
20	13C-1,2,3,4,7,8-HxCDD	4.32e5	5.58e5	1.24	1.27	NO	0.7790	34.84	34.85	NO	1.014	1.014	99.4	99.4	NO
21	13C-1,2,3,6,7,8-HxCDD	6.09e5	5.58e5	1.24	1.26	NO	1.0167	34.94	34.95	NO	1.017	1.017	107	107	NO

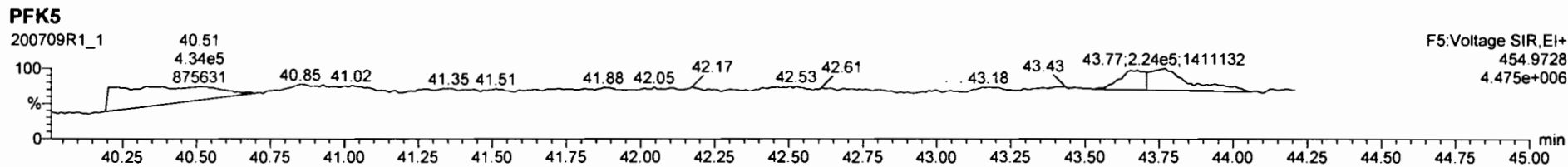
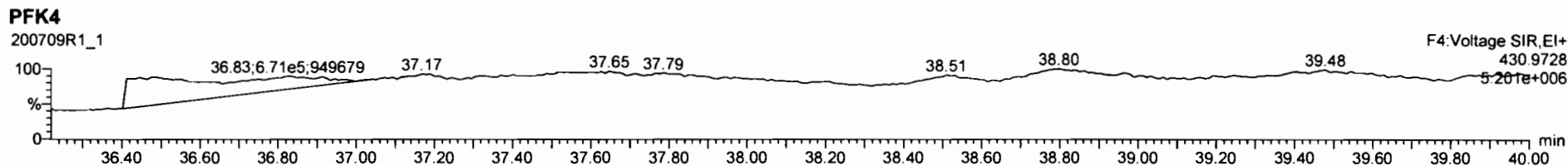
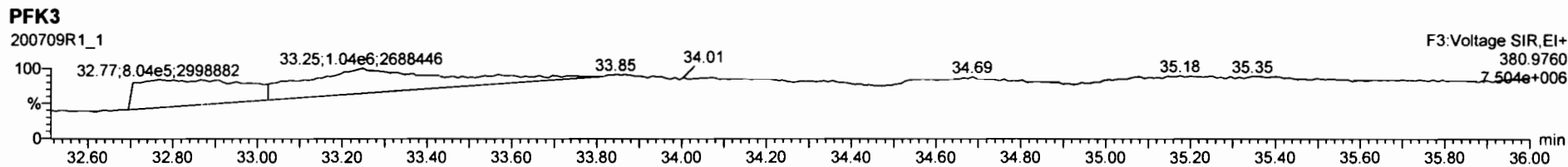
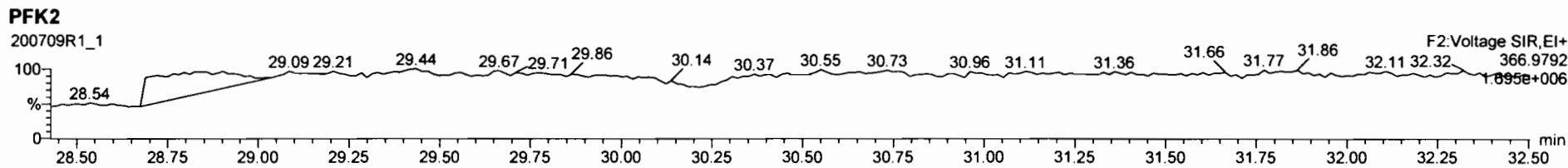
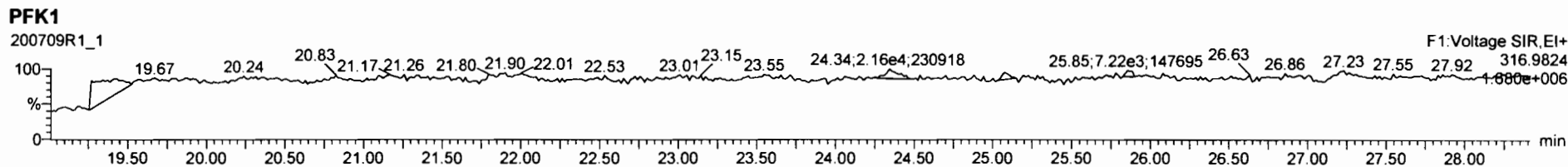


Dataset: Untitled

Last Altered: Thursday, July 09, 2020 9:12:14 AM Pacific Daylight Time

Printed: Thursday, July 09, 2020 9:12:19 AM Pacific Daylight Time

Name: 200709R1_1, Date: 09-Jul-2020, Time: 07:50:04, ID: ST200709R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



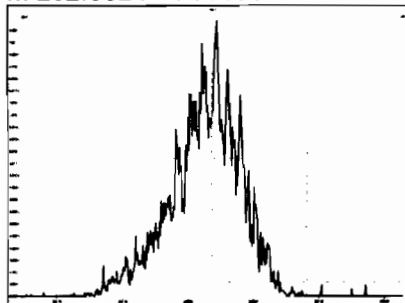
Experiment Calibration Report

MassLynx 4.1 SCN815

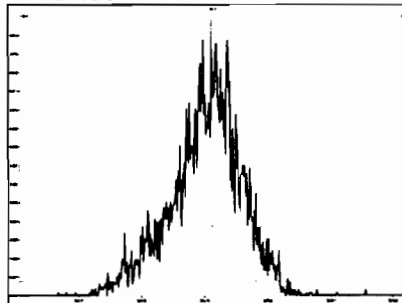
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, July 10, 2020 07:42:41 Pacific Daylight Time

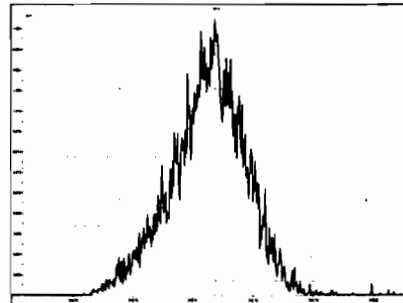
M 292.9824 R 11414



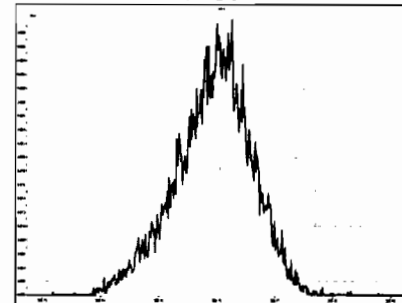
M 304.9824 R 11845



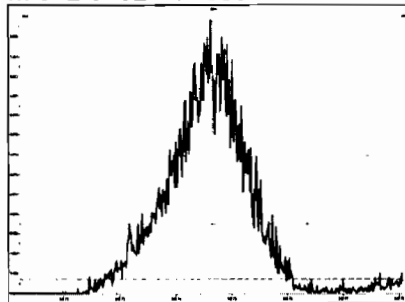
M 318.9792 R 11737



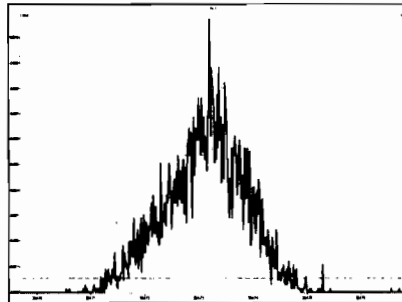
M 330.9792 R 10872



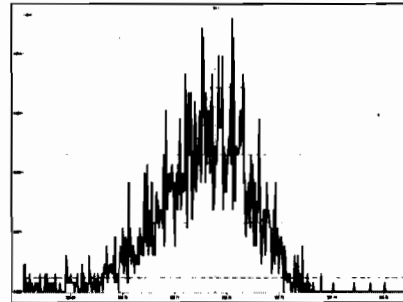
M 342.9792 R 10594



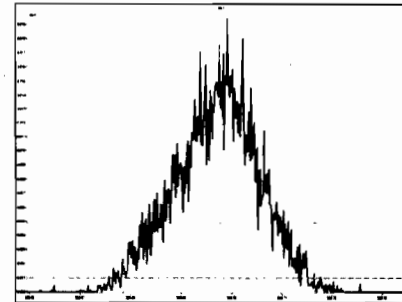
M 354.9792 R 11109



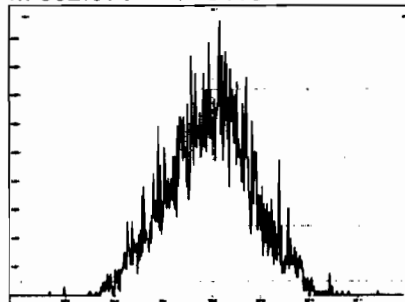
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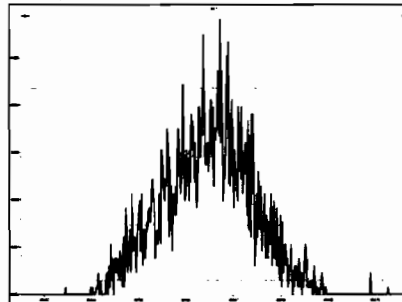
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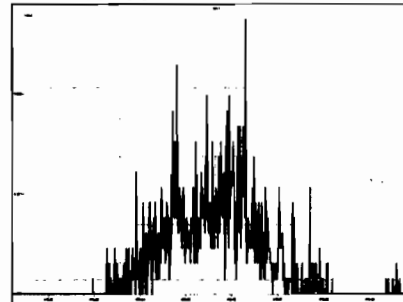
M 392.9760 R 10418



M 404.9760 R 10775



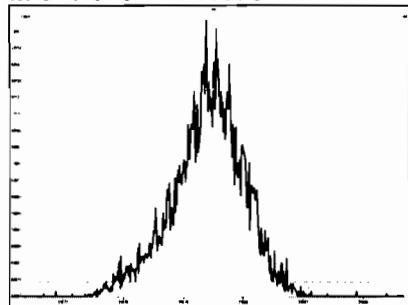
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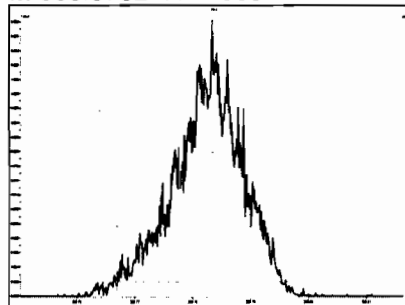
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, July 10, 2020 07:43:11 Pacific Daylight Time

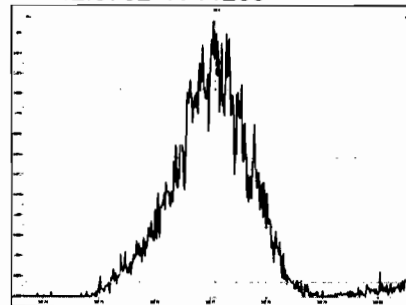
M 318.9792 R 11678



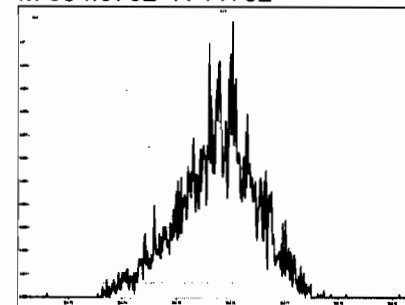
M 330.9792 R 11066



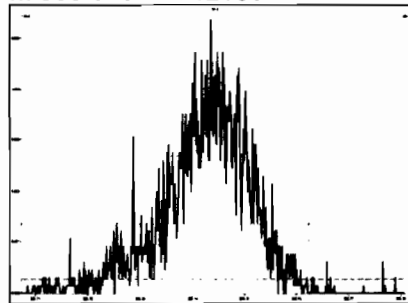
M 342.9792 R 11263



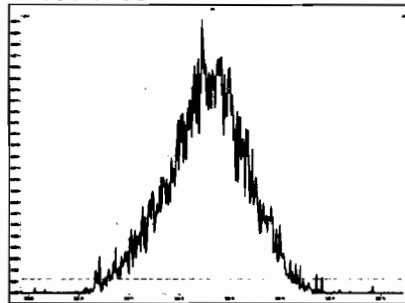
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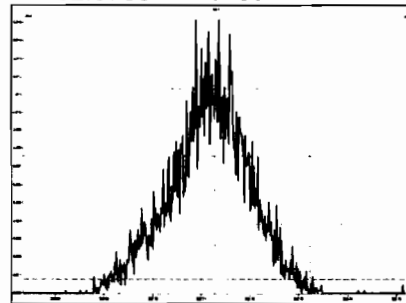
M 366.9792 R 12889



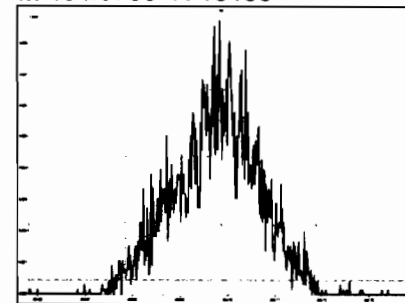
M 380.9760 R 10373



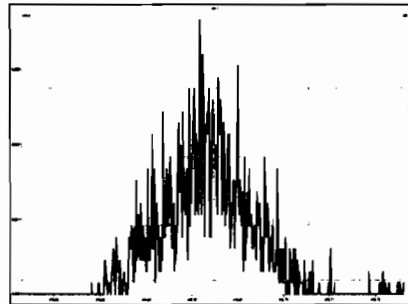
M 392.9760 R 11109



M 404.9760 R 10163



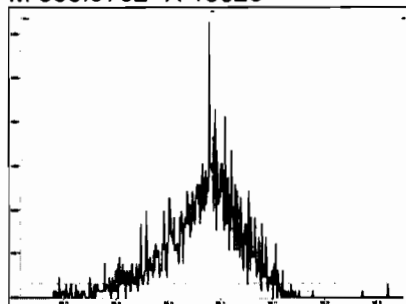
M 416.9760 R 11960



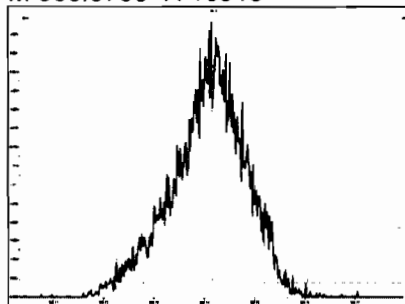
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Printed: Friday, July 10, 2020 07:44:09 Pacific Daylight Time

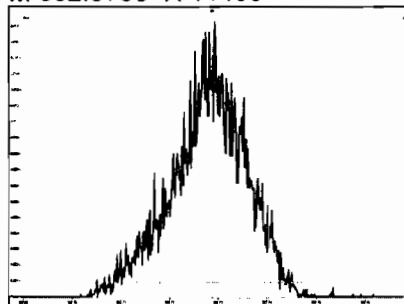
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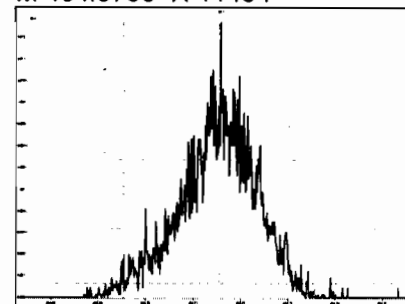
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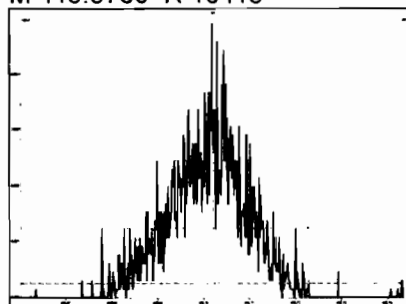
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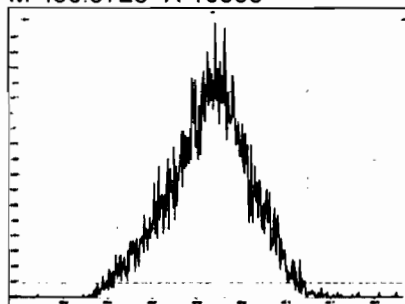
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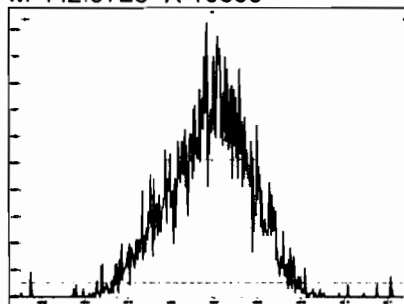
M 416.9760 R 10416



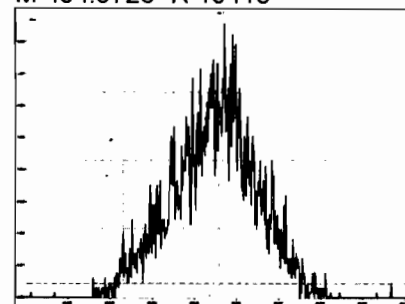
M 430.9728 R 10595



M 442.9728 R 10869



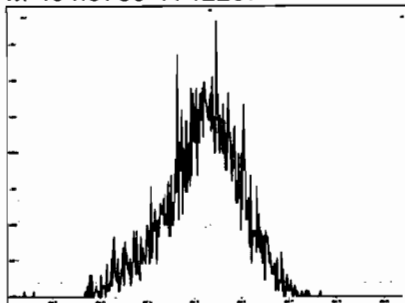
M 454.9728 R 10415



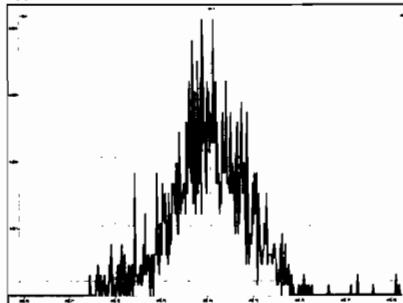
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, July 10, 2020 07:44:35 Pacific Daylight Time

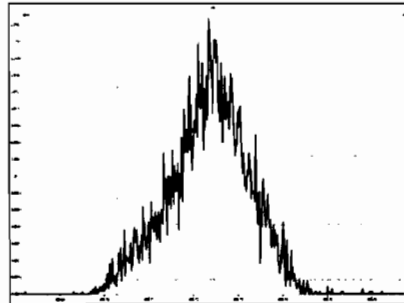
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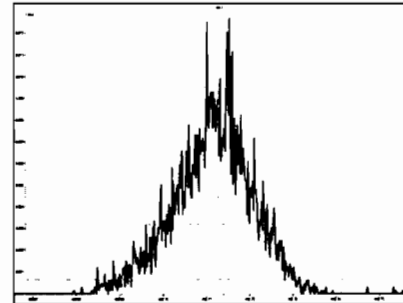
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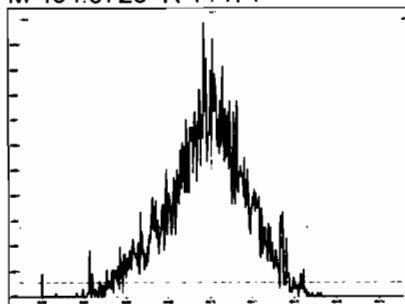
M 430.9728 R 11362



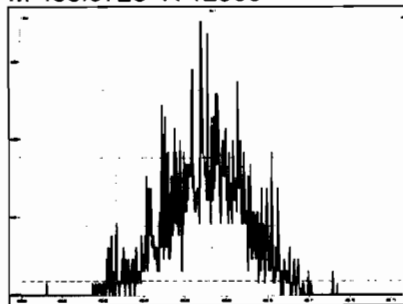
M 442.9728 R 11625



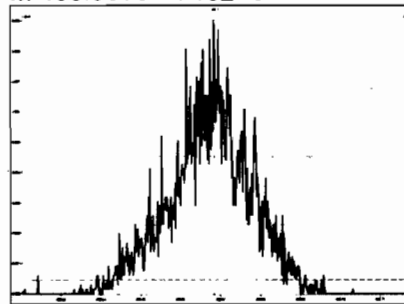
M 454.9728 R 11471



M 466.9728 R 12955



M 480.9696 R 10246



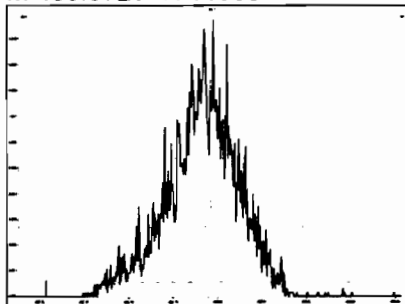
Experiment Calibration Report

MassLynx 4.1 SCN815

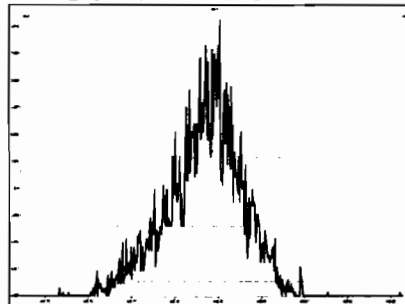
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Printed: Friday, July 10, 2020 07:44:52 Pacific Daylight Time

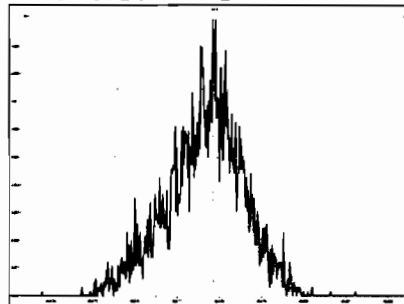
M 430.9728 R 11905



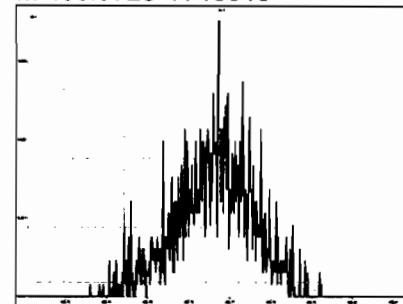
M 442.9728 R 11210



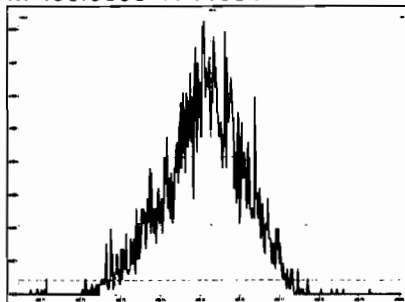
M 454.9728 R 11262



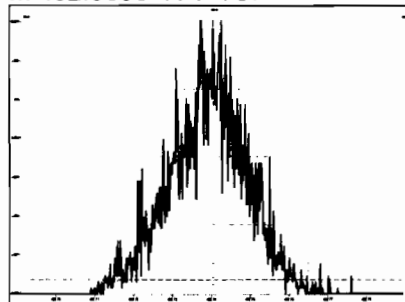
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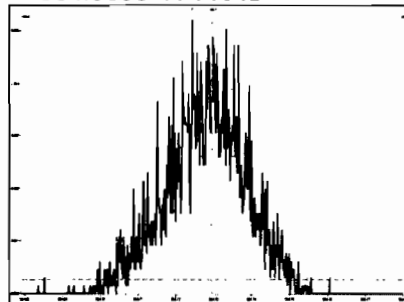
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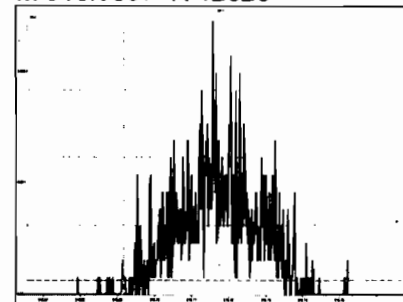
M 492.9696 R 11737



M 504.9696 R 11012



M 516.9697 R 12020



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

||
Beg. Calibration ID: ST200708D1-1

Reviewed By: C707/09/2020
Initials & Date

End Calibration ID: ST200708D1-2

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> NA	<input type="checkbox"/> NA	GC Break <20%	<input type="checkbox"/> NA	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments:		
Correct ICAL referenced?	<input type="checkbox"/> DB	<input type="checkbox"/> DB			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> (Y)	<input type="checkbox"/> N			
- Bottle position verified?	<input type="checkbox"/> DB				

Dataset: U:\VG7.PRO\Results\200708D1\200708D1_2.qld

Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:11:05 Pacific Daylight Time

DB 7/8/20 C707/09/2020

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1613 8290

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	RRF	RRF	Conc			
1	2,3,7,8-TCDF	1.40e4	0.81	NO	0.982	1.000	16.925	16.95	1.000	1.001	8.7821	<i>87.884-120</i>	<i>0.12080-120</i>	8.78
2	13C-2,3,7,8-TCDF	1.62e5	0.75	NO	1.08	1.000	16.882	16.92	1.133	1.135	102.00	<i>102.71-140</i>	<i>0.36170-130</i>	
3	13C-1,2,3,4-TCDF	1.47e5	0.76	NO	1.00	1.000	15.060	14.91	1.000	1.000	100.00	100	0.391	

Dataset: Untitled

Last Altered: Thursday, July 09, 2020 09:30:53 Pacific Daylight Time
Printed: Thursday, July 09, 2020 09:30:58 Pacific Daylight Time

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

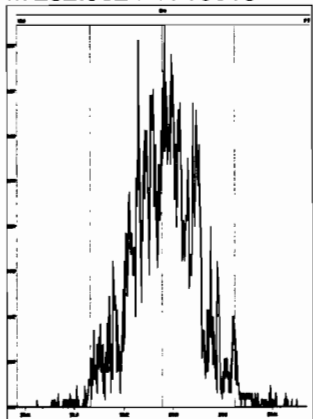
Compound name: 2,3,7,8-TCDF

Name	ID	Acq.Date	Acq.Time
200708D1_1	CP200708D1-1 DB-225 CPSM	08-Jul-20	10:08:20
200708D1_2	ST200708D1-1 1613 CS3 19L2305	08-Jul-20	10:38:29
200708D1_3	SOLVENT BLANK	08-Jul-20	11:10:12
200708D1_4	2001022-11RE1 PDI-051SC-B-02-04-200506 ...	08-Jul-20	11:41:57
200708D1_5	2001243-03RE1 ISUXO20SS500001 21.23	08-Jul-20	12:13:38
200708D1_6	2001243-10RE1 ISUXO20SSP50P0001 21.03	08-Jul-20	12:45:20
200708D1_7	2001033-01RE2 PDI-087SC-B-00-02-200509 ...	08-Jul-20	13:17:06
200708D1_8	2001207-02RE1 ISUXO20SB350102 11.15	08-Jul-20	13:48:46
200708D1_9	2001207-03RE1 ISUXO20SS390001 15.85	08-Jul-20	14:20:29
200708D1_10	2001207-04RE1 ISUXO20SB390102 12.79	08-Jul-20	14:52:11
200708D1_11	2001035-02RE1 PDI-050SC-A-01-02-200508 ...	08-Jul-20	15:27:49
200708D1_12	2001035-08RE1 PDI-050SC-B-00-02-200508 ...	08-Jul-20	15:57:51
200708D1_13	2001035-11RE1 PDI-093SC-B-00-02-200508 ...	08-Jul-20	16:29:33
200708D1_14	2001035-12RE1 PDI-093SC-B-02-05-200508 ...	08-Jul-20	17:01:15
200708D1_15	2001035-13RE1 PDI-093SC-B-05-8.8-200508 ...	08-Jul-20	17:32:52
200708D1_16	2001155-01RE1 PDI-1175SC-A-01-02-200522...	08-Jul-20	18:04:33
200708D1_17	2001155-02RE1 PDI-175SC-A-00-01-200522 ...	08-Jul-20	18:36:13
200708D1_18	2001155-03RE1 PDI-175SC-A-01-02-200522 ...	08-Jul-20	19:07:55
200708D1_19	2000855-15RE4 PDI-076SC-A-06-07-191013 ...	08-Jul-20	19:40:02
200708D1_20	SOLVENT BLANK	08-Jul-20	20:11:45
200708D1_21	ST200708D1-2 1613 CS3 19L2305	08-Jul-20	20:43:29

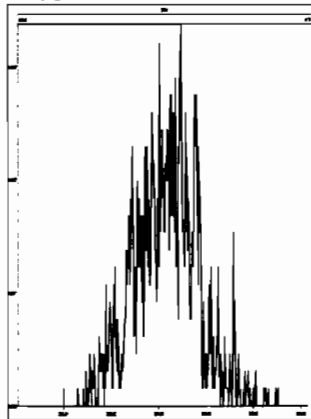
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, July 08, 2020 10:07:19 Pacific Daylight Time

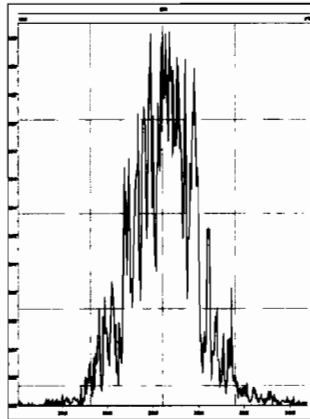
M 292.9824 R 13016



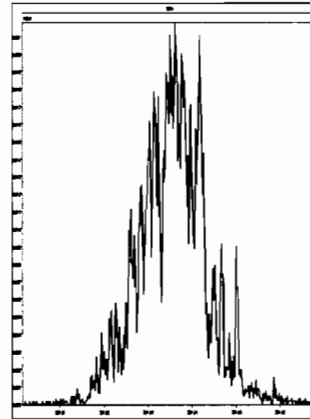
M 304.9824 R 11682



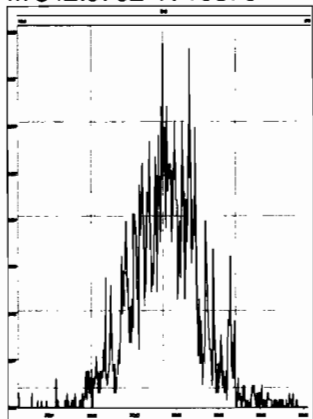
M 318.9792 R 11681



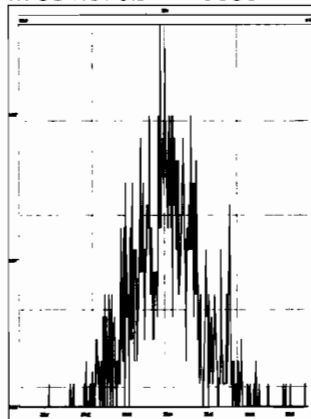
M 330.9792 R 10201



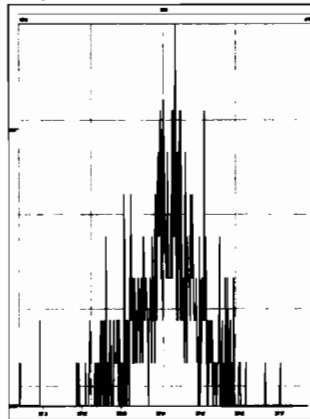
M 342.9792 R 10870



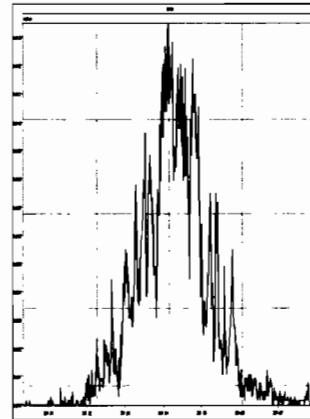
M 354.9792 R 16030

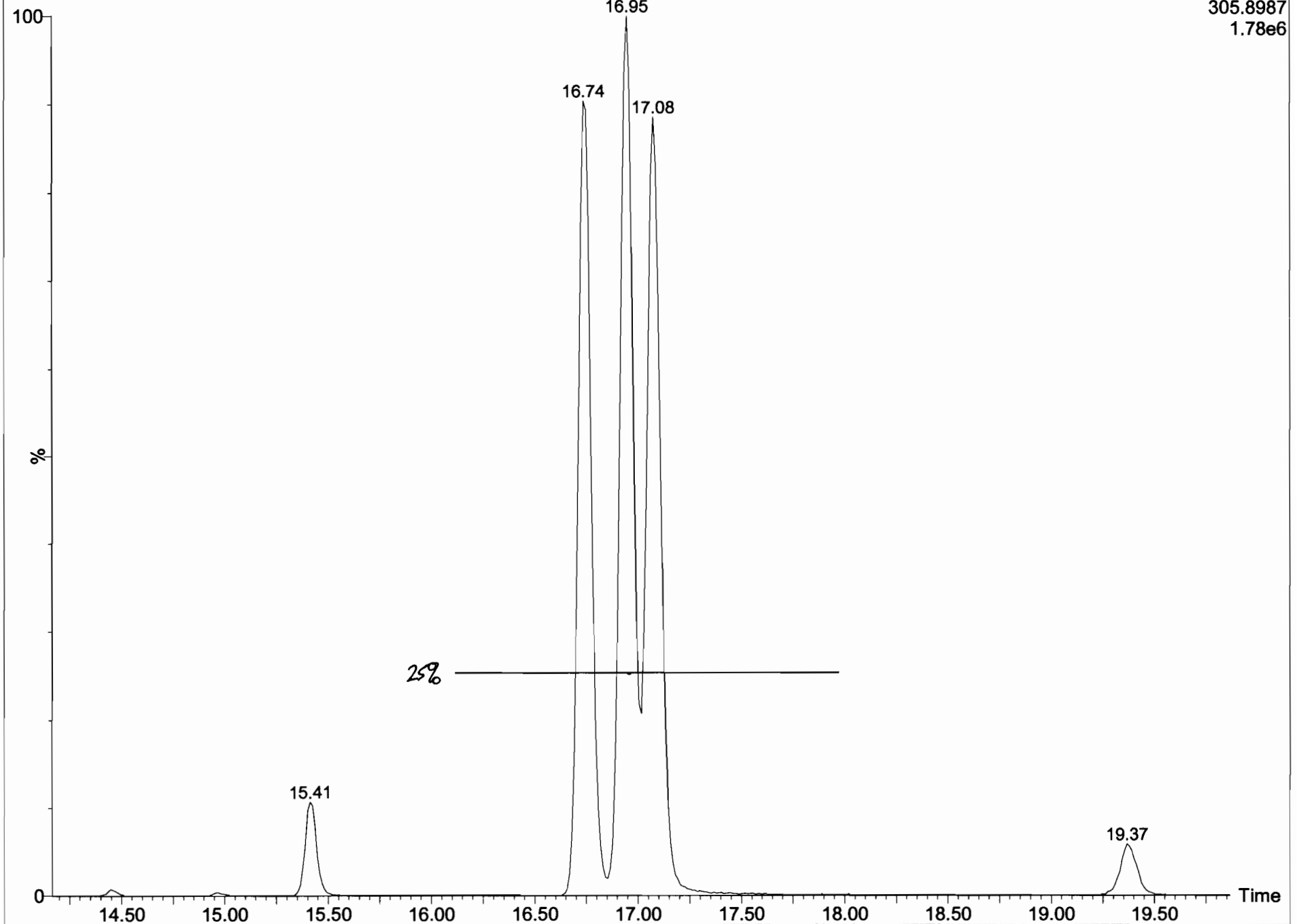


M 366.9792 R 12251



M 380.9760 R 11962





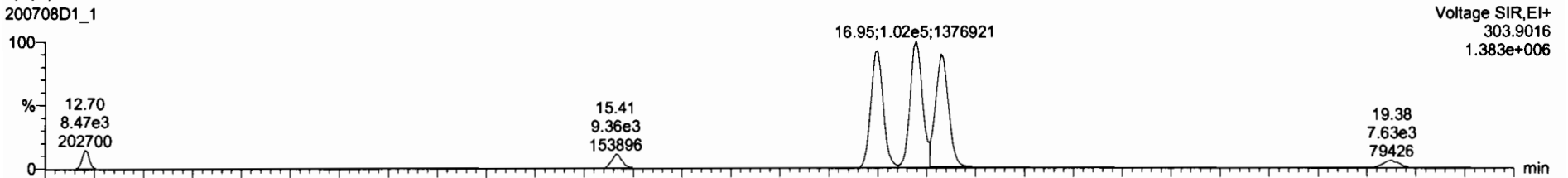
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_1.qld

Last Altered: Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:12:35 Pacific Daylight Time

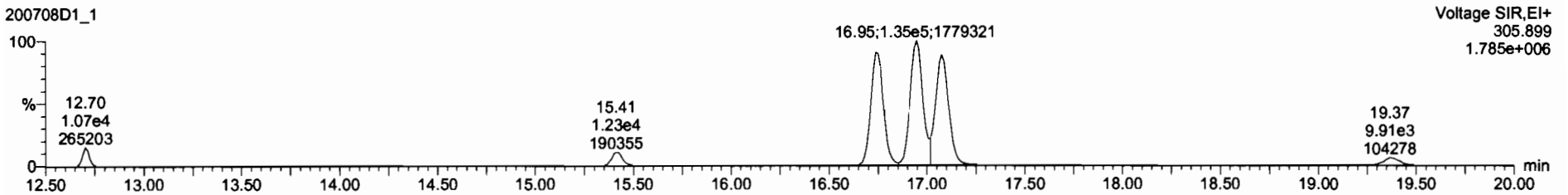
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_1, Date: 08-Jul-2020, Time: 10:08:20, ID: CP200708D1-1 DB-225 CPSM, Description: DB-225 CPSM

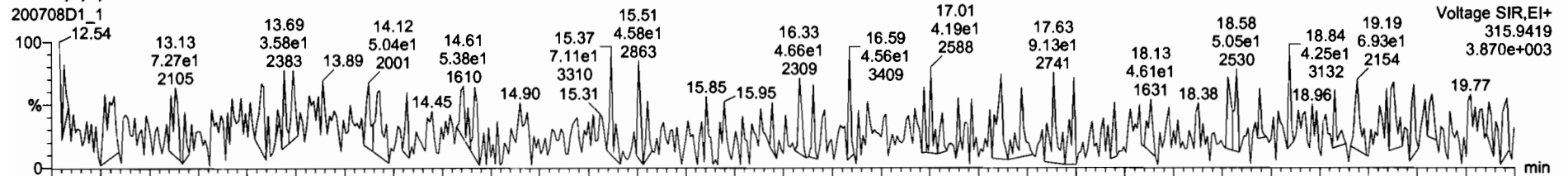
2,3,7,8-TCDF
200708D1_1



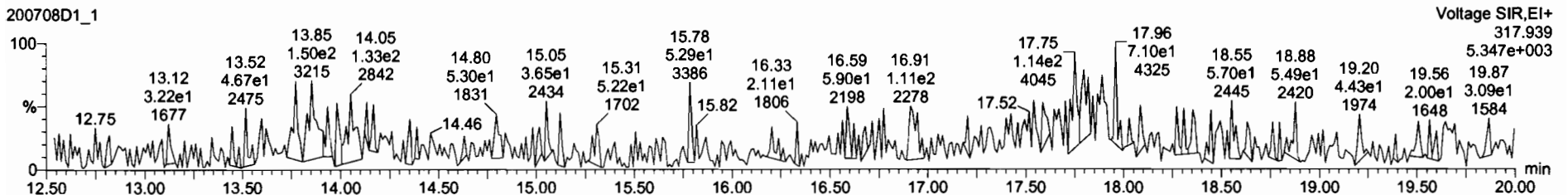
200708D1_1



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



200708D1_1

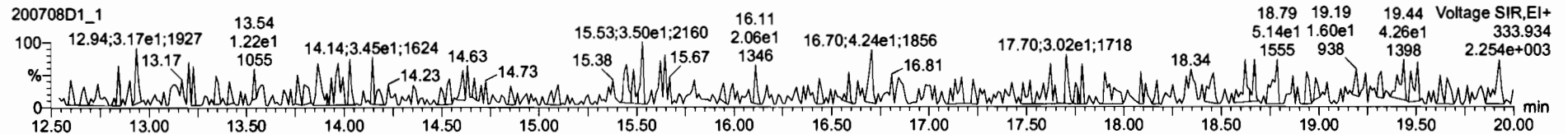
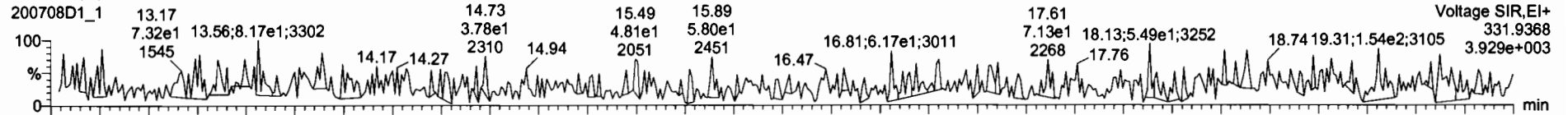


Dataset: U:\VG7.PRO\Results\200708D1\200708D1_1.qld

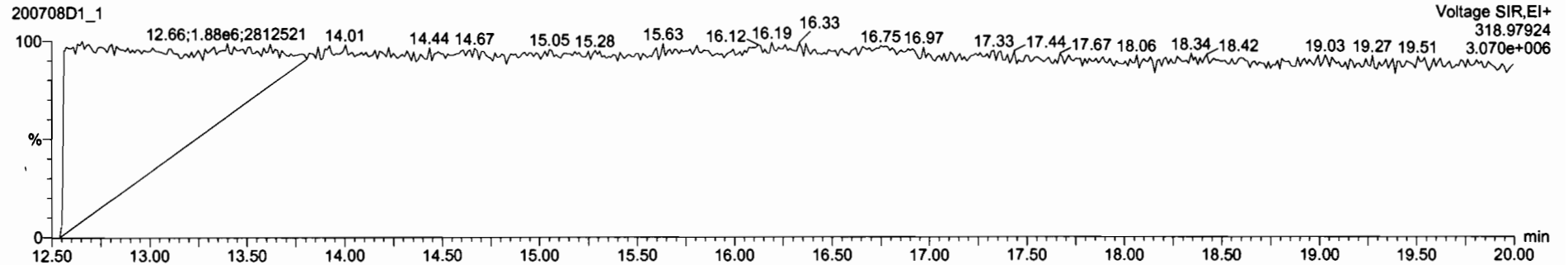
Last Altered: Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:12:35 Pacific Daylight Time

Name: 200708D1_1, Date: 08-Jul-2020, Time: 10:08:20, ID: CP200708D1-1 DB-225 CPSM, Description: DB-225 CPSM

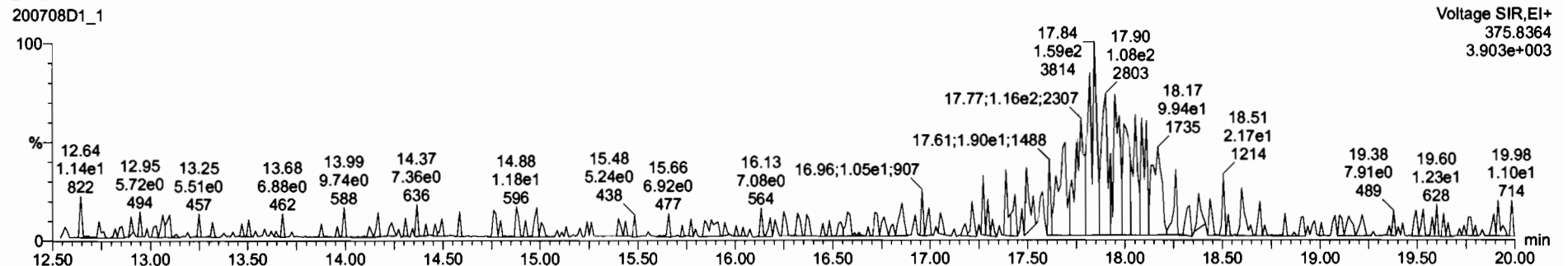
13C-1,2,3,4-TCDD



PFK1



DPE1



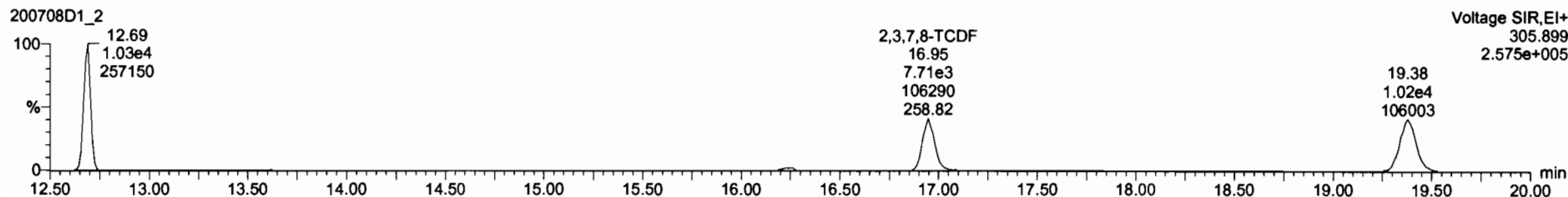
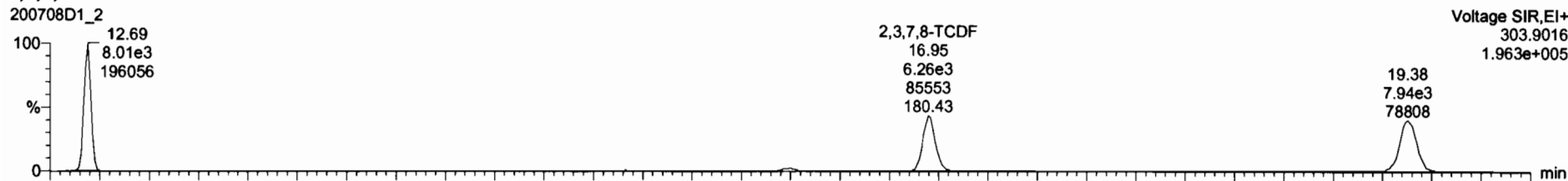
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_2.qld

Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:11:31 Pacific Daylight Time

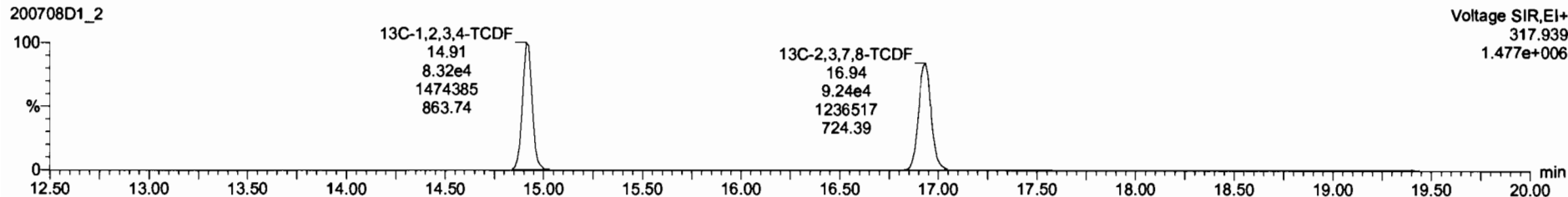
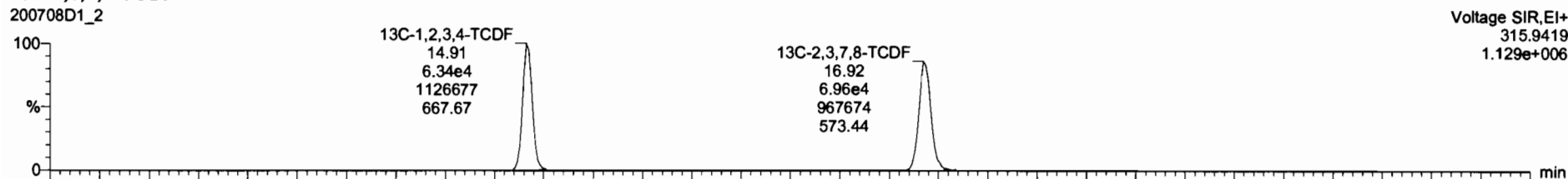
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\ldb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



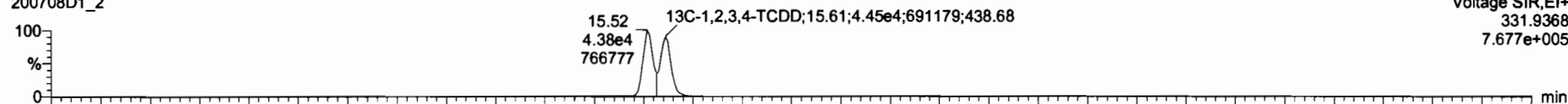
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_2.qld

Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:11:31 Pacific Daylight Time

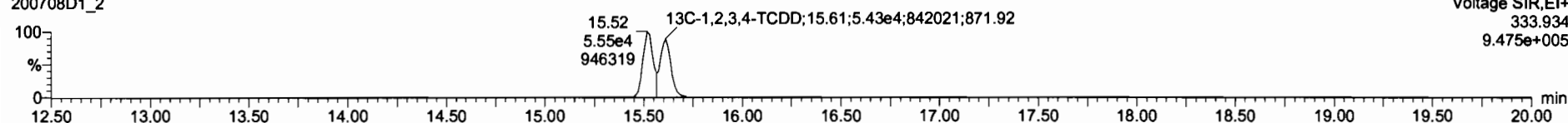
Name: 200708D1_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200708D1_2

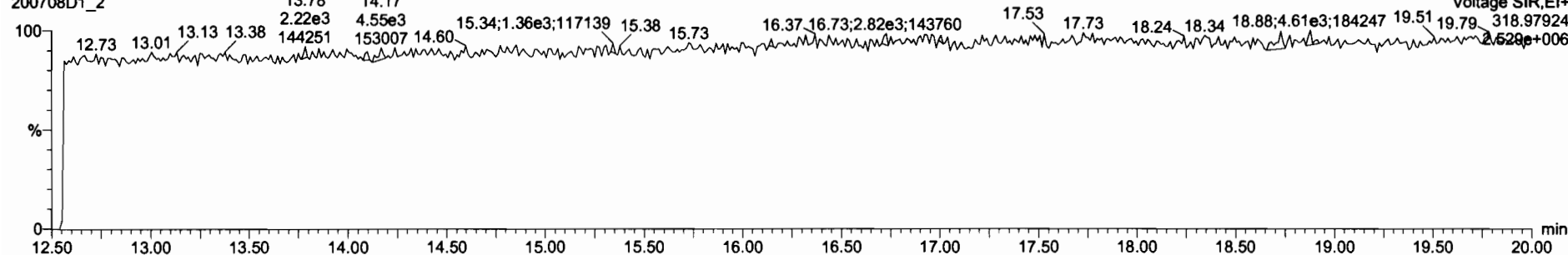


200708D1_2



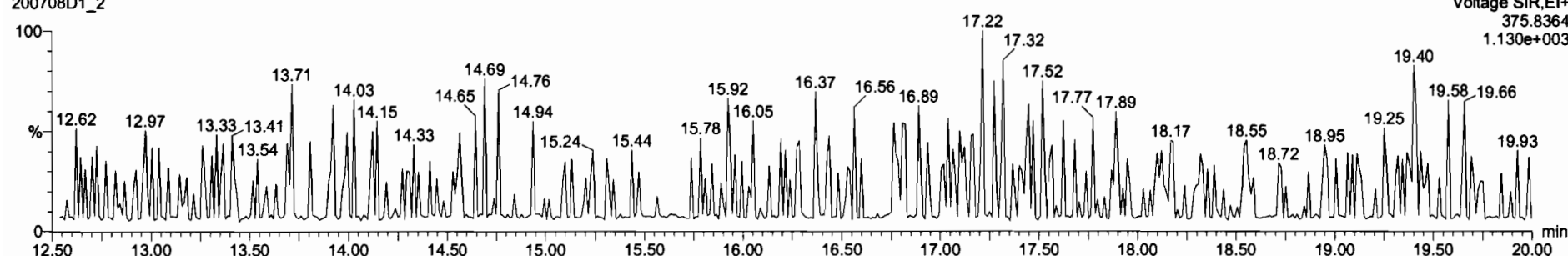
PFK1

200708D1_2



DPE1

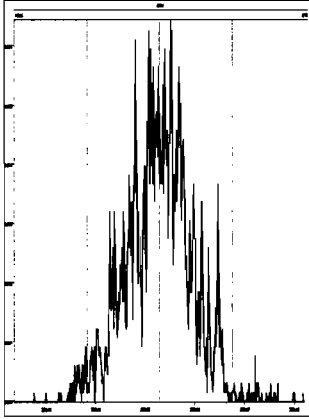
200708D1_2



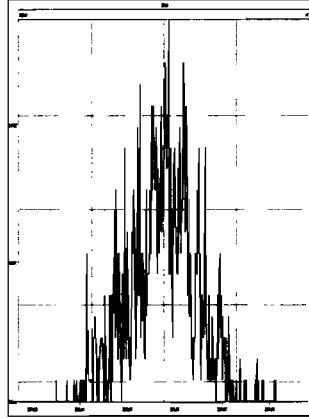
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, July 08, 2020 21:16:53 Pacific Daylight Time

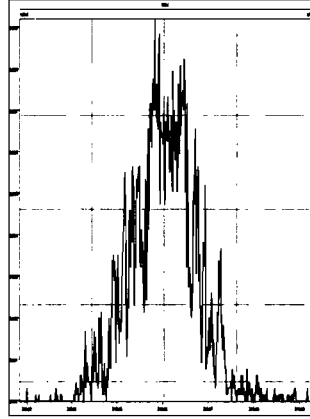
M 292.9824 R 11740



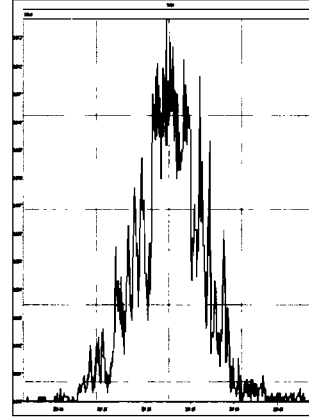
M 304.9824 R 12433



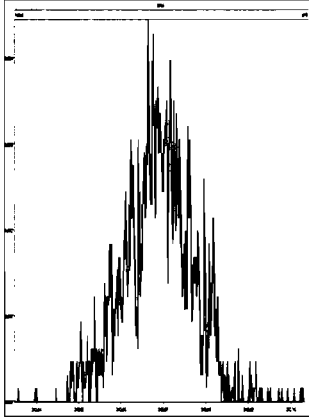
M 318.9792 R 12195



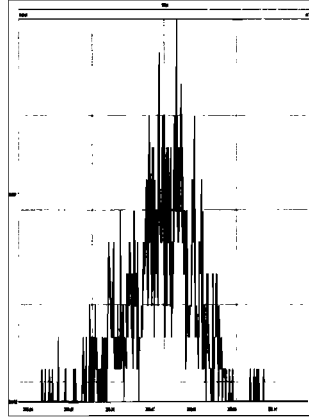
M 330.9792 R 11902



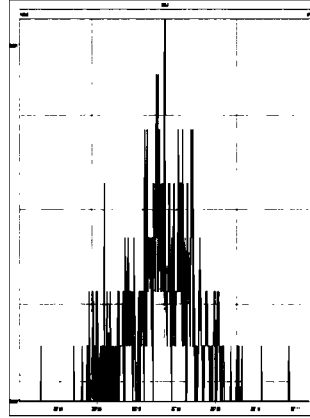
M 342.9792 R 11850



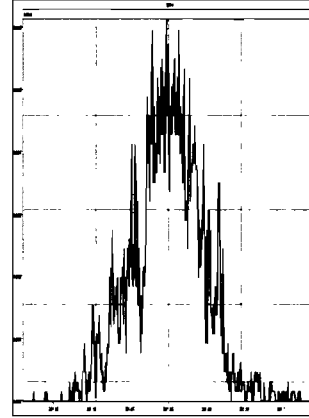
M 354.9792 R 13736



M 366.9792 R 15820



M 380.9760 R 10966



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

II
Beg. Calibration ID: ST700709DZ7

Reviewed By: CT 07/10/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
First and last eluters present?	<input type="checkbox"/> NA	<input type="checkbox"/>	GC Break <20%	<input type="checkbox"/> NA	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:	<div style="height: 150px;"></div>	
Correct ICAL referenced?	<input type="checkbox"/> DB	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N			
- Samples within 12 hour clock?	<input type="checkbox"/> (Y)	<input type="checkbox"/> N			
- Bottle position verified?	<input type="checkbox"/>	<input type="checkbox"/>			

Dataset: U:\VG7.PRO\Results\200709D2\200709D2_2.qld

Last Altered: Thursday, July 09, 2020 17:13:40 Pacific Daylight Time
Printed: Thursday, July 09, 2020 17:15:35 Pacific Daylight Time

DB 7/9/20 07 07/10/2020

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52

Calibration: U:\VG7.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 15:52:18

Name: 200709D2_2, Date: 09-Jul-2020, Time: 16:38:11, ID: ST200709D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred RRT	RRT	Conc	Peak	Area
1	2,3,7,8-TCDF	6.55e3	0.76	NO	0.855	1.000	16.948	16.97	1.000	1.001	10.500	105	84-120 0.249 10.5
2	13C-2,3,7,8-TCDF	7.30e4	0.74	NO	1.10	1.000	16.906	16.95	1.133	1.135	90.574	90.6	71-140 0.573
3	13C-1,2,3,4-TCDF	7.35e4	0.81	NO	1.00	1.000	15.060	14.94	1.000	1.000	100.00	100	0.627

Dataset: Untitled

Last Altered: Friday, July 10, 2020 11:09:57 Pacific Daylight Time
Printed: Friday, July 10, 2020 11:10:12 Pacific Daylight Time

Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 15:52:18

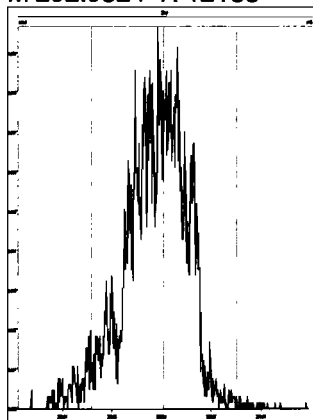
Compound name: 2,3,7,8-TCDF

		Acq. Date	Acq. Time
200709D2_1	CP200709D2-1 DB-225 CPSM	09-Jul-20	16:08:03
200709D2_2	ST200709D2-1 1613 CS3 19L2305	09-Jul-20	16:38:11
200709D2_3	SOLVENT BLANK	09-Jul-20	17:09:54
200709D2_4	2001102-07RE1 SO-B02-0.0-0.5 3.06	09-Jul-20	17:41:41
200709D2_5	2001102-08RE1 SO-B02-0.5-1.0 2.93	09-Jul-20	18:13:20
200709D2_6	2001102-09RE1 SO-B02-1.0-2.0 3.09	09-Jul-20	18:45:02
200709D2_7	2001102-11RE1 SO-B02-2.0-3.0 3.04	09-Jul-20	19:16:44
200709D2_8	2001035-01RE2 PDI-050SC-A-00-01-200508 ...	09-Jul-20	19:48:26

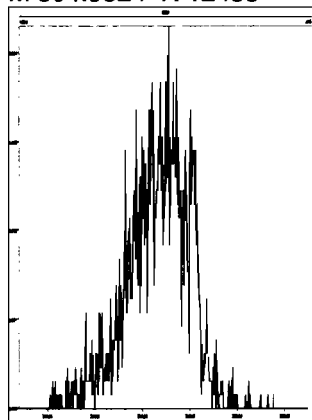
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, July 09, 2020 16:06:55 Pacific Daylight Time

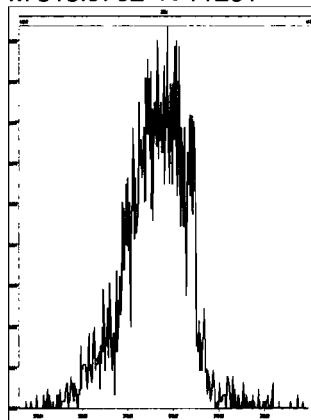
M 292.9824 R 12133



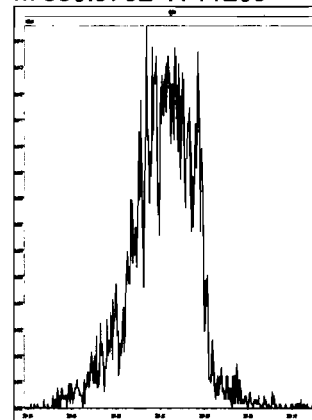
M 304.9824 R 12433



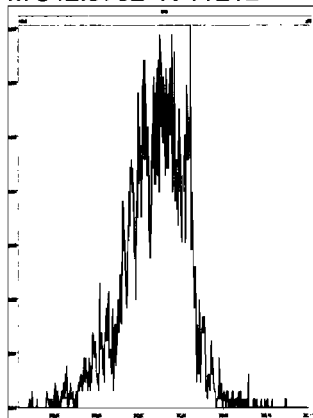
M 318.9792 R 11261



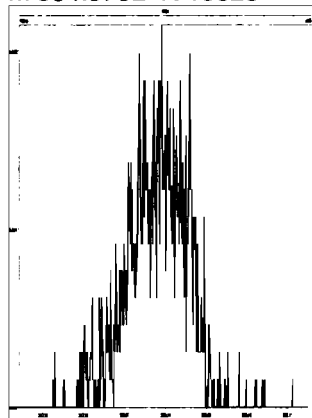
M 330.9792 R 11209



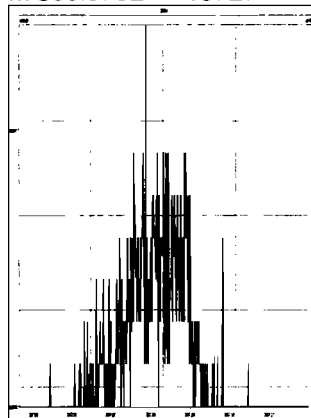
M 342.9792 R 11212



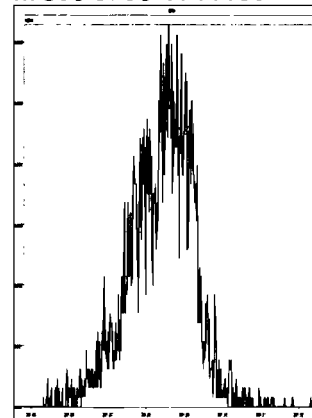
M 354.9792 R 15823

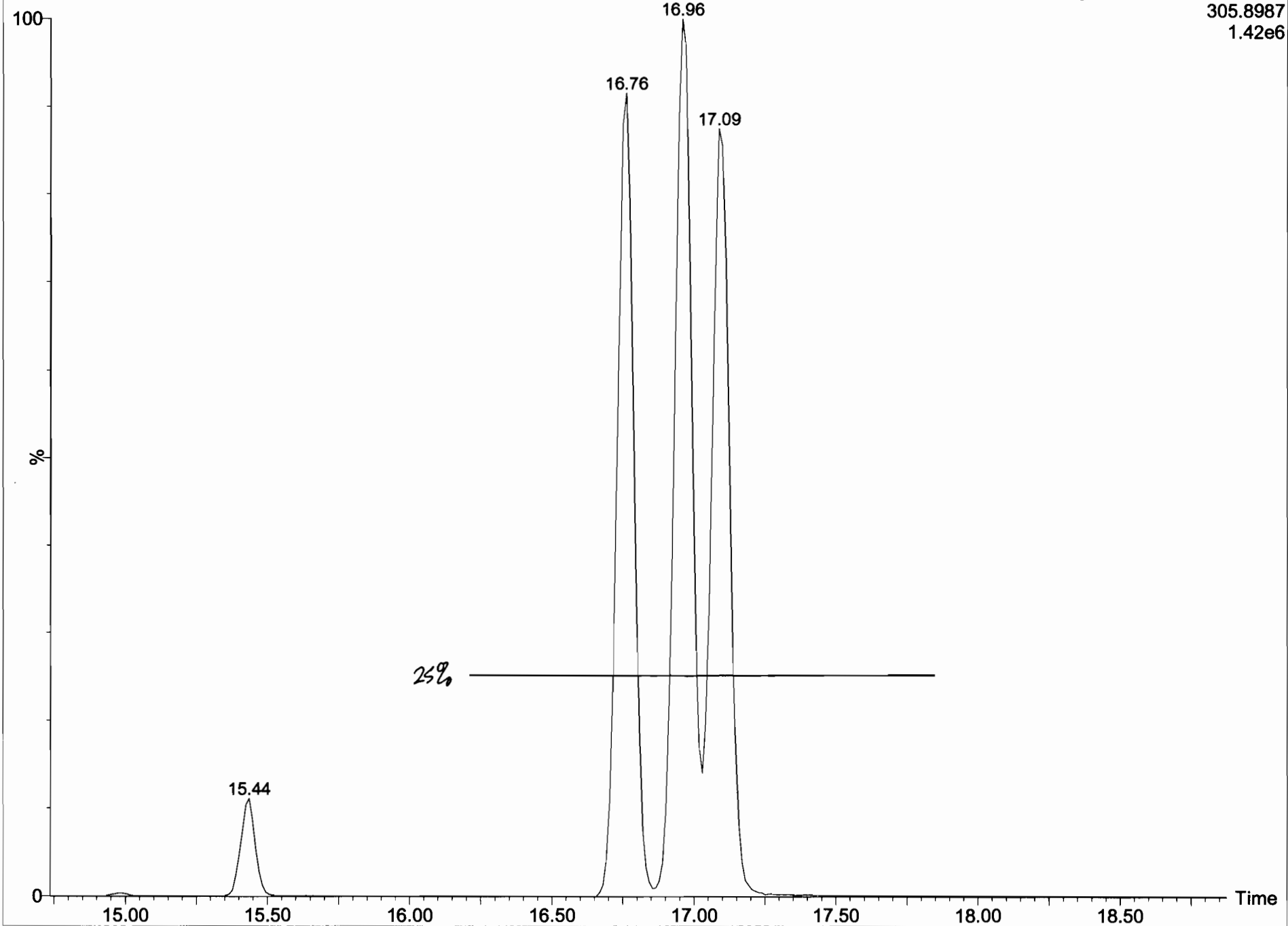


M 366.9792 R 15727



M 380.9760 R 11108





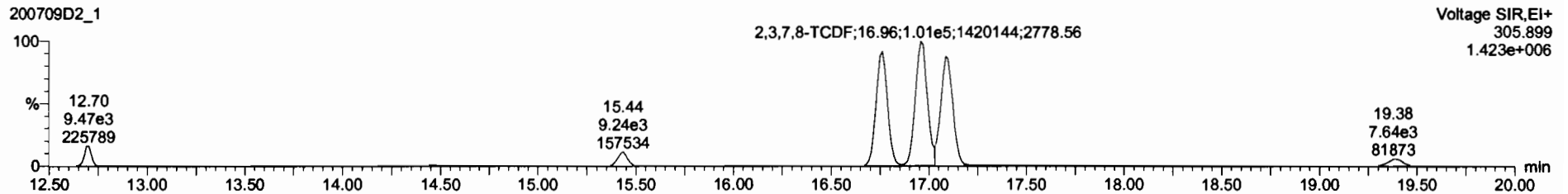
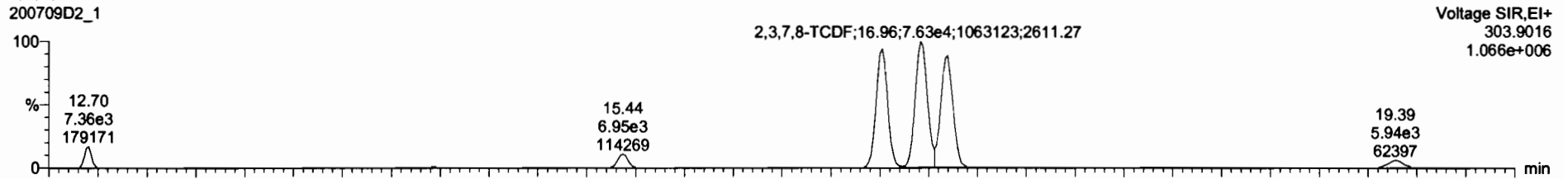
Dataset: U:\VG7.PRO\Results\200709D2\200709D2_1.qld

Last Altered: Thursday, July 09, 2020 17:11:58 Pacific Daylight Time
Printed: Thursday, July 09, 2020 17:16:10 Pacific Daylight Time

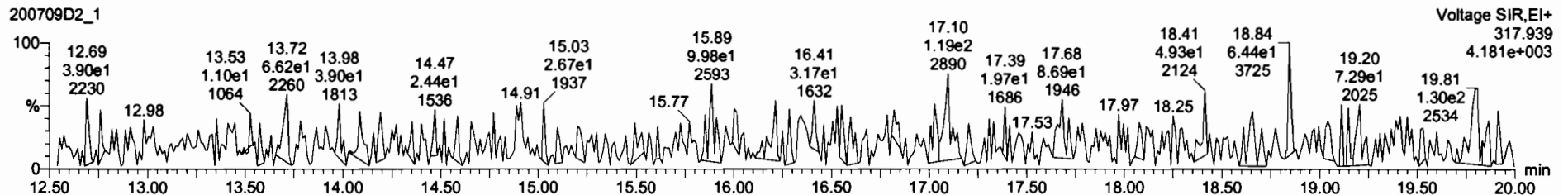
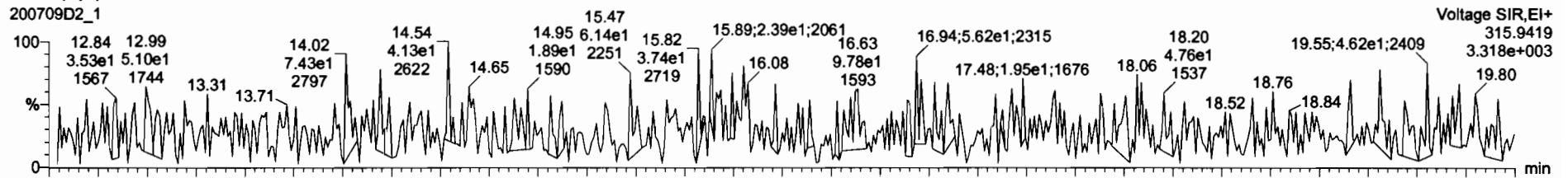
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 15:52:18

Name: 200709D2_1, Date: 09-Jul-2020, Time: 16:08:03, ID: CP200709D2-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF



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

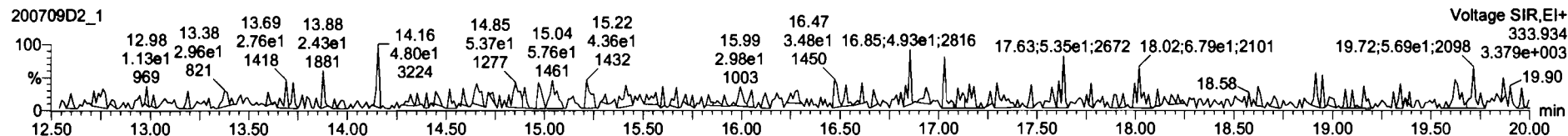
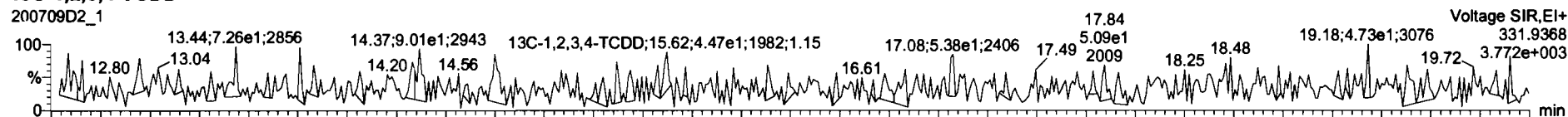


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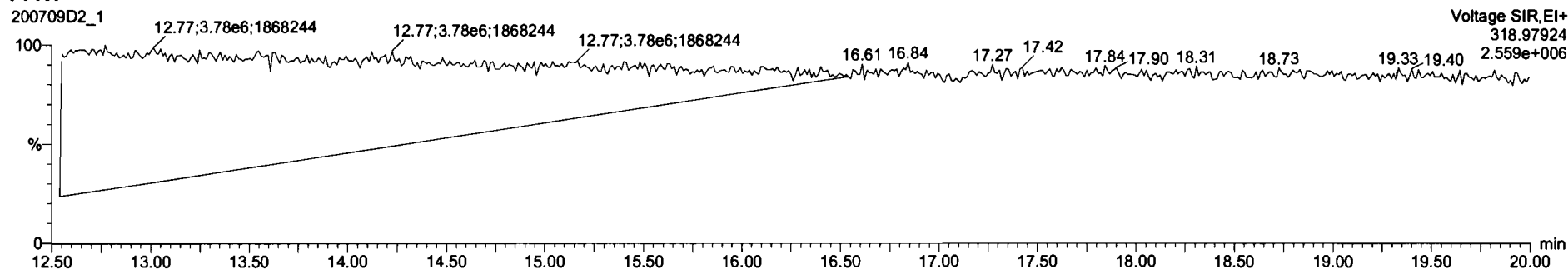
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Printed: Thursday, July 09, 2020 17:16:10 Pacific Daylight Time

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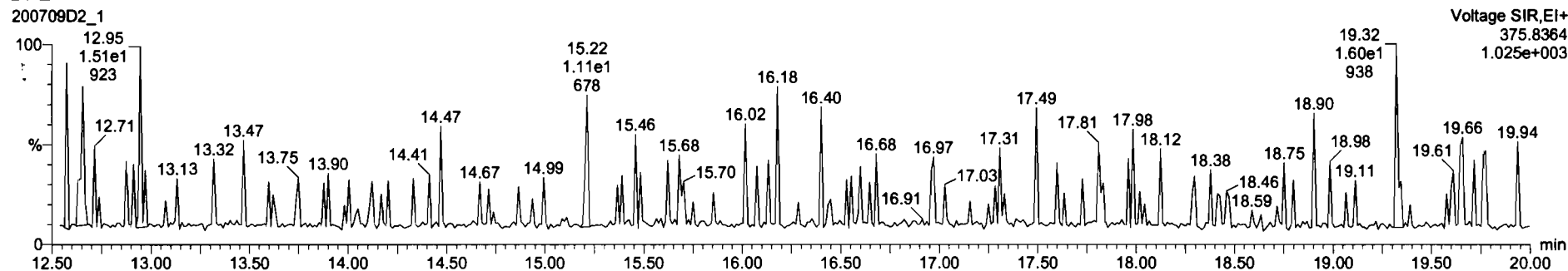
13C-1,2,3,4-TCDD



PFK1



DPE1



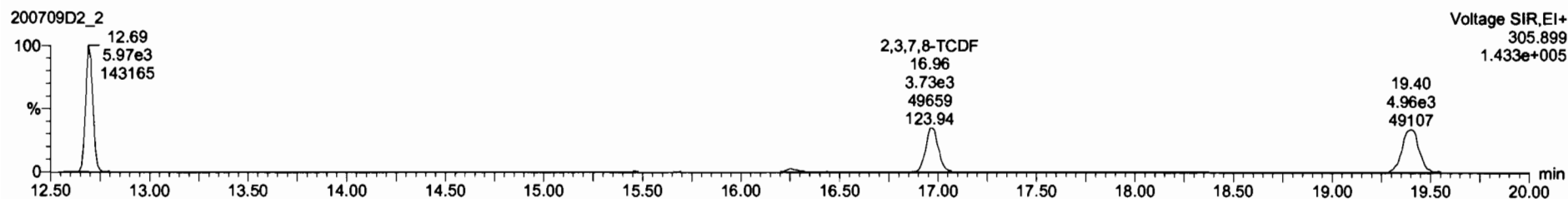
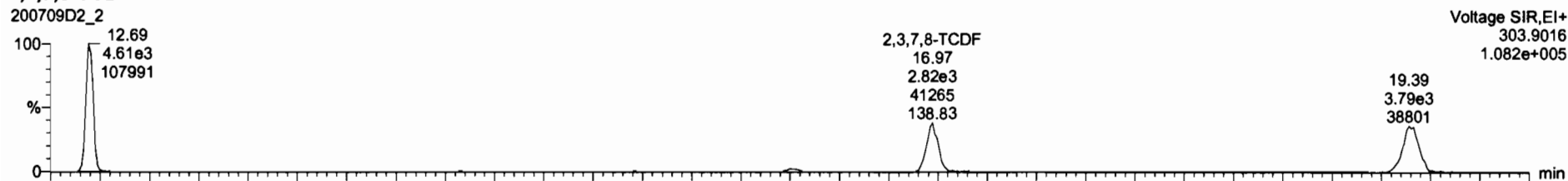
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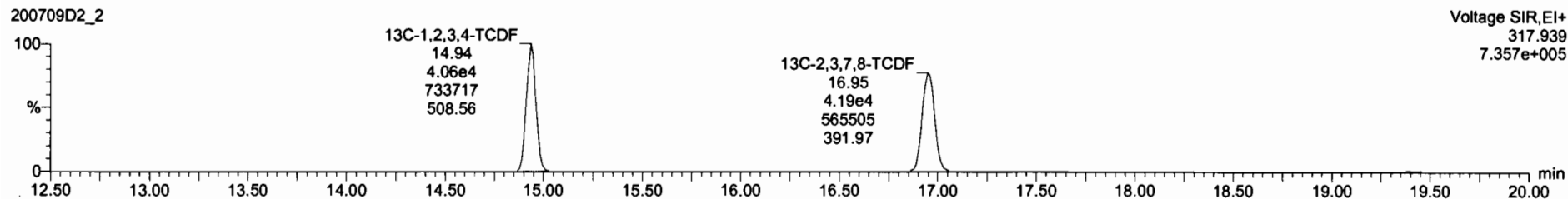
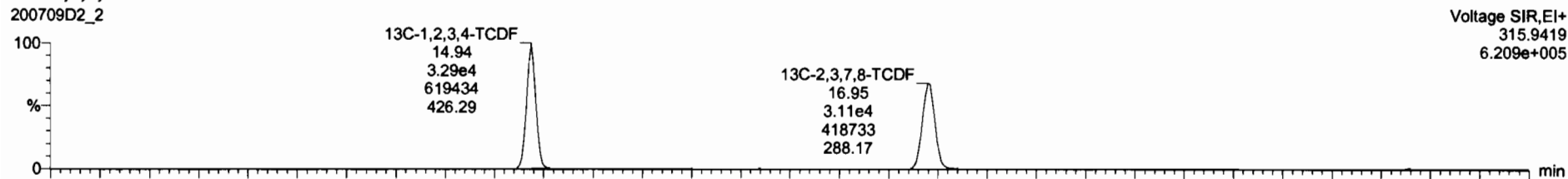
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Calibration: U:\VG7.PRO\CurveDB\ldb-225_m23tcdfvg-2-11-20.cdb 11 Feb 2020 15:52:18

Name: 200709D2_2, Date: 09-Jul-2020, Time: 16:38:11, ID: ST200709D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



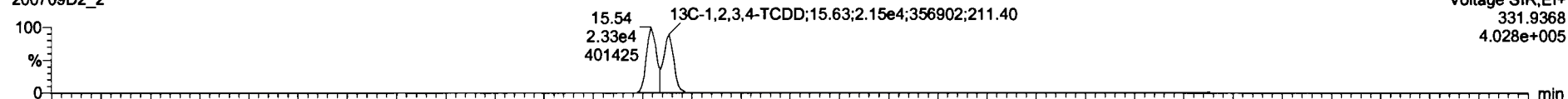
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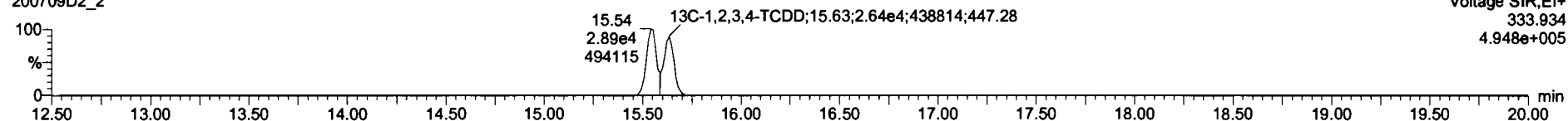
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13C-1,2,3,4-TCDD

200709D2_2

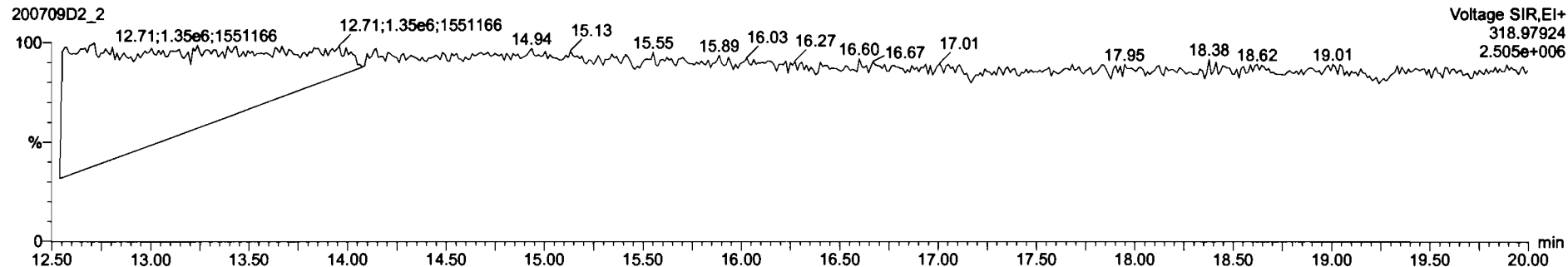


200709D2_2



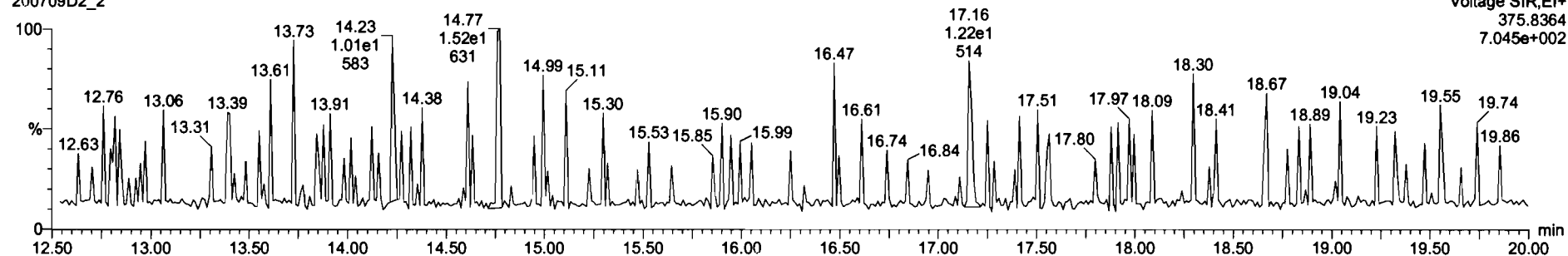
PFK1

200709D2_2



DPE1

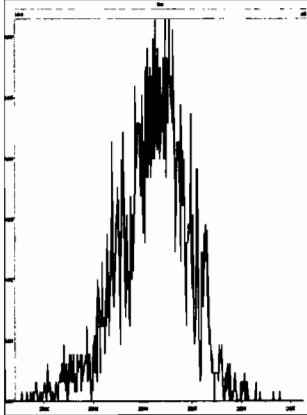
200709D2_2



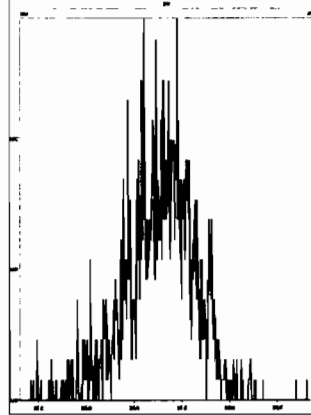
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Printed: Thursday, July 09, 2020 20:21:54 Pacific Daylight Time

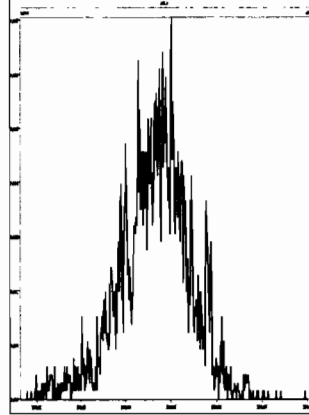
M 292.9824 R 11845



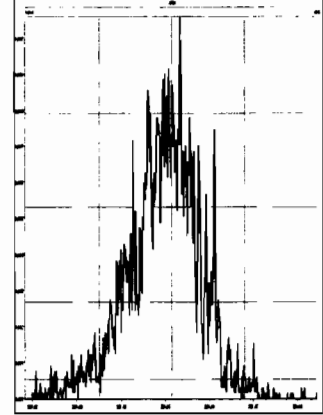
M 304.9824 R 15338



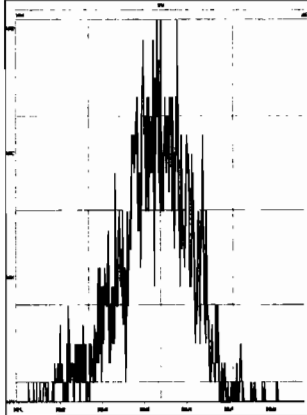
M 318.9792 R 11961



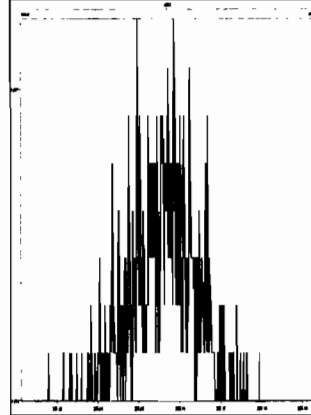
M 330.9792 R 11630



M 342.9792 R 11009



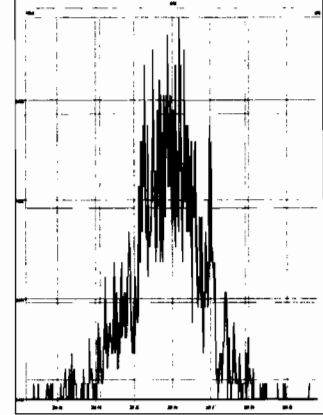
M 354.9792 R 15243



M 366.9792 R 32058



M 380.9760 R 12196



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time
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GRB 05/29/2020

CI 05/29/2020

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17
 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

Response Factor: 0.88831
 RRF SD: 0.0677802, Relative SD: 7.63025
 Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250	0.68	NO	26.54	1.000	2.70e3	1.43e6	0.213	-14.8	0.757	bb
2	200528R2_2	0.500	0.78	NO	26.57	1.001	5.69e3	1.29e6	0.497	-0.6	0.883	bb
3	200528R2_3	2.00	0.80	NO	26.57	1.001	2.40e4	1.31e6	2.06	3.1	0.916	bb
4	200528R2_4	40.0	0.78	NO	26.56	1.001	5.50e5	1.50e6	41.2	3.0	0.915	bb
5	200528R2_5	300	0.78	NO	26.59	1.001	4.32e6	1.52e6	321	6.9	0.949	bb
6	200528R2_6	10.0	0.81	NO	26.59	1.001	1.06e5	1.16e6	10.2	2.4	0.910	dd

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.908065
 RRF SD: 0.0455724, Relative SD: 5.01862
 Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.66	NO	31.50	1.000	1.03e4	1.00e6	1.12	-10.0	0.817	bb
2	200528R2_2	2.50	0.64	NO	31.51	1.000	2.12e4	9.36e5	2.50	-0.1	0.908	bb
3	200528R2_3	10.0	0.63	NO	31.51	1.000	8.60e4	9.29e5	10.2	1.9	0.926	bb
4	200528R2_4	200	0.63	NO	31.51	1.000	2.06e6	1.11e6	205	2.4	0.930	bb
5	200528R2_5	1500	0.63	NO	31.51	1.000	1.69e7	1.21e6	1550	3.0	0.935	bb
6	200528R2_6	50.0	0.62	NO	31.53	1.001	3.95e5	8.48e5	51.3	2.7	0.932	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

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Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.03343

RRF SD: 0.0545572, Relative SD: 5.27925

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.27	NO	34.86	1.000	8.03e3	6.95e5	1.12	-10.6	0.924	MM
2	200528R2_2	2.50	1.27	NO	34.88	1.000	1.69e4	6.46e5	2.53	1.2	1.05	bd
3	200528R2_3	10.0	1.24	NO	34.88	1.000	6.94e4	6.61e5	10.2	1.6	1.05	bd
4	200528R2_4	200	1.23	NO	34.88	1.001	1.67e6	7.89e5	204	2.1	1.06	MM
5	200528R2_5	1500	1.23	NO	34.88	1.000	1.47e7	9.34e5	1520	1.5	1.05	bd
6	200528R2_6	50.0	1.23	NO	34.89	1.000	3.25e5	6.04e5	52.1	4.1	1.08	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.892293

RRF SD: 0.0561127, Relative SD: 6.28859

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.23	NO	34.97	1.001	9.27e3	9.27e5	1.12	-10.3	0.800	db
2	200528R2_2	2.50	1.25	NO	34.99	1.001	1.90e4	8.61e5	2.47	-1.1	0.883	db
3	200528R2_3	10.0	1.24	NO	34.99	1.000	8.01e4	8.39e5	10.7	7.0	0.954	db
4	200528R2_4	200	1.22	NO	34.99	1.001	1.92e6	1.03e6	209	4.3	0.931	MM
5	200528R2_5	1500	1.23	NO	34.99	1.000	1.61e7	1.17e6	1550	3.5	0.923	db
6	200528R2_6	50.0	1.24	NO	35.00	1.001	3.51e5	8.15e5	48.3	-3.4	0.862	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.886936

RRF SD: 0.0582559, Relative SD: 6.56822

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.20	NO	35.25	1.000	8.14e3	8.33e5	1.10	-11.9	0.782	bb
2	200528R2_2	2.50	1.21	NO	35.27	1.001	1.62e4	7.48e5	2.44	-2.3	0.866	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.26	NO	35.26	1.000	7.01e4	7.53e5	10.5	4.9	0.931	bb
4	200528R2_4	200	1.20	NO	35.26	1.000	1.70e6	9.12e5	210	4.9	0.931	bb
5	200528R2_5	1500	1.22	NO	35.27	1.000	1.47e7	1.06e6	1570	4.5	0.927	bb
6	200528R2_6	50.0	1.24	NO	35.27	1.000	3.12e5	7.05e5	49.9	-0.2	0.886	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.863903

RRF SD: 0.0694586, Relative SD: 8.04009

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	38.78	1.000	6.10e3	6.48e5	1.09	-12.8	0.753	MM
2	200528R2_2	2.50	1.05	NO	38.81	1.001	1.21e4	6.01e5	2.33	-6.7	0.806	bb
3	200528R2_3	10.0	1.03	NO	38.80	1.000	4.99e4	5.57e5	10.4	3.7	0.896	bd
4	200528R2_4	200	1.02	NO	38.80	1.000	1.25e6	6.86e5	211	5.5	0.911	bb
5	200528R2_5	1500	1.01	NO	38.81	1.000	1.15e7	8.18e5	1620	8.0	0.933	bb
6	200528R2_6	50.0	1.03	NO	38.81	1.000	2.29e5	5.18e5	51.2	2.4	0.884	MM

Compound name: OCDD

Response Factor: 0.913637

RRF SD: 0.0452527, Relative SD: 4.95303

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.85	NO	41.76	1.000	1.23e4	1.18e6	2.27	-9.1	0.831	bd
2	200528R2_2	5.00	0.83	NO	41.77	1.000	2.39e4	1.05e6	4.97	-0.6	0.908	bd
3	200528R2_3	20.0	0.89	NO	41.78	1.000	9.89e4	1.03e6	21.0	4.9	0.959	MM
4	200528R2_4	400	0.87	NO	41.77	1.000	2.45e6	1.35e6	397	-0.6	0.908	MM
5	200528R2_5	3000	0.84	NO	41.79	1.000	2.37e7	1.67e6	3100	3.2	0.943	MM
6	200528R2_6	100	0.88	NO	41.78	1.000	4.53e5	9.71e5	102	2.2	0.933	MM

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

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

Response Factor: 0.75098

RF SD: 0.0524401, Relative SD: 6.98288

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250	0.73	NO	25.67	1.001	3.27e3	1.95e6	0.223	-10.9	0.669	bb
2	200528R2_2	0.500	0.75	NO	25.67	1.001	6.53e3	1.78e6	0.488	-2.3	0.733	bb
3	200528R2_3	2.00	0.74	NO	25.68	1.001	2.67e4	1.80e6	1.97	-1.4	0.740	bb
4	200528R2_4	40.0	0.76	NO	25.68	1.001	6.52e5	2.04e6	42.6	6.5	0.800	bb
5	200528R2_5	300	0.75	NO	25.69	1.001	5.00e6	2.04e6	326	8.6	0.816	bb
6	200528R2_6	10.0	0.74	NO	25.69	1.001	1.19e5	1.59e6	9.96	-0.4	0.748	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.892531

RRF SD: 0.0599961, Relative SD: 6.72201

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.61	NO	30.20	1.000	1.46e4	1.50e6	1.09	-12.9	0.777	bb
2	200528R2_2	2.50	1.55	NO	30.23	1.000	3.08e4	1.37e6	2.52	0.8	0.900	bd
3	200528R2_3	10.0	1.55	NO	30.23	1.000	1.31e5	1.38e6	10.7	7.0	0.955	bb
4	200528R2_4	200	1.54	NO	30.23	1.000	2.94e6	1.63e6	203	1.4	0.905	bb
5	200528R2_5	1500	1.54	NO	30.23	1.000	2.38e7	1.75e6	1520	1.3	0.904	bb
6	200528R2_6	50.0	1.57	NO	30.25	1.000	5.72e5	1.25e6	51.2	2.5	0.915	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 0.934777

RRF SD: 0.0507076, Relative SD: 5.42456

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.56	NO	31.19	1.000	1.48e4	1.42e6	1.12	-10.8	0.834	bb
2	200528R2_2	2.50	1.55	NO	31.21	1.000	3.19e4	1.35e6	2.52	0.8	0.943	bd

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

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Compound name: 2,3,4,7,8-PeCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.55	NO	31.21	1.000	1.34e5	1.38e6	10.4	3.7	0.969	bb
4	200528R2_4	200	1.54	NO	31.21	1.000	3.00e6	1.57e6	204	2.2	0.955	bb
5	200528R2_5	1500	1.53	NO	31.21	1.000	2.45e7	1.69e6	1550	3.4	0.967	bb
6	200528R2_6	50.0	1.57	NO	31.22	1.000	5.81e5	1.24e6	50.3	0.7	0.941	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.884459
 RRF SD: 0.0674086, Relative SD: 7.62145
 Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.25	NO	33.99	1.001	8.98e3	9.42e5	1.08	-13.8	0.762	bd
2	200528R2_2	2.50	1.19	NO	33.99	1.000	1.81e4	8.49e5	2.41	-3.7	0.852	bd
3	200528R2_3	10.0	1.22	NO	34.01	1.001	7.91e4	8.47e5	10.6	5.6	0.934	bd
4	200528R2_4	200	1.18	NO	33.99	1.000	1.87e6	1.02e6	208	3.9	0.919	bd
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bd
6	200528R2_6	50.0	1.21	NO	34.01	1.000	3.56e5	7.87e5	51.1	2.2	0.904	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 0.889174
 RRF SD: 0.0479606, Relative SD: 5.39384
 Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.16	NO	34.11	1.001	1.07e4	1.07e6	1.12	-10.7	0.794	MM
2	200528R2_2	2.50	1.25	NO	34.12	1.000	2.16e4	9.70e5	2.50	0.1	0.890	MM
3	200528R2_3	10.0	1.28	NO	34.12	1.000	9.20e4	1.01e6	10.3	2.7	0.914	MM
4	200528R2_4	200	1.18	NO	34.12	1.001	2.16e6	1.18e6	206	2.8	0.914	db
5	200528R2_5	1500	1.19	NO	34.12	1.000	1.80e7	1.33e6	1520	1.2	0.900	db
6	200528R2_6	50.0	1.25	NO	34.13	1.000	4.22e5	9.14e5	51.9	3.8	0.923	MM

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 0.934102
 RRF SD: 0.0631666, Relative SD: 6.76228
 Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.09	NO	34.70	1.001	9.51e3	9.22e5	1.10	-11.7	0.825	bb
2	200528R2_2	2.50	1.26	NO	34.71	1.001	1.93e4	8.66e5	2.38	-4.7	0.890	bb
3	200528R2_3	10.0	1.25	NO	34.71	1.000	8.53e4	8.69e5	10.5	5.2	0.982	bd
4	200528R2_4	200	1.19	NO	34.71	1.001	2.00e6	1.04e6	207	3.3	0.965	bb
5	200528R2_5	1500	1.19	NO	34.72	1.001	1.72e7	1.18e6	1560	4.1	0.972	bb
6	200528R2_6	50.0	1.25	NO	34.72	1.000	3.88e5	8.00e5	51.9	3.9	0.971	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.870707
 RRF SD: 0.0533625, Relative SD: 6.12863
 Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.19	NO	35.61	1.001	7.48e3	7.73e5	1.11	-11.0	0.775	bb
2	200528R2_2	2.50	1.12	NO	35.61	1.000	1.48e4	7.04e5	2.42	-3.1	0.844	bb
3	200528R2_3	10.0	1.24	NO	35.62	1.000	6.49e4	7.27e5	10.3	2.5	0.892	bd
4	200528R2_4	200	1.20	NO	35.62	1.001	1.60e6	8.84e5	208	3.9	0.904	bb
5	200528R2_5	1500	1.20	NO	35.63	1.000	1.40e7	1.02e6	1580	5.6	0.919	bb
6	200528R2_6	50.0	1.22	NO	35.63	1.000	2.98e5	6.70e5	51.1	2.2	0.890	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 0.873391
 RRF SD: 0.0600077, Relative SD: 6.87065
 Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.03	NO	37.37	1.000	6.77e3	7.13e5	1.09	-13.1	0.759	bb
2	200528R2_2	2.50	0.94	NO	37.40	1.001	1.40e4	6.49e5	2.48	-0.9	0.866	bb

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.00	NO	37.40	1.001	5.72e4	6.48e5	10.1	1.0	0.883	bd
4	200528R2_4	200	0.99	NO	37.39	1.000	1.43e6	7.67e5	213	6.5	0.930	bb
5	200528R2_5	1500	1.00	NO	37.40	1.000	1.28e7	9.39e5	1560	3.7	0.906	bb
6	200528R2_6	50.0	0.98	NO	37.41	1.001	2.64e5	5.89e5	51.4	2.7	0.897	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.01285

RRF SD: 0.106215, Relative SD: 10.4867

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	39.33	1.001	5.26e3	5.09e5	1.02	-18.4	0.827	bb
2	200528R2_2	2.50	0.98	NO	39.33	1.000	1.03e4	4.36e5	2.33	-6.7	0.945	bb
3	200528R2_3	10.0	1.01	NO	39.34	1.000	4.43e4	4.19e5	10.4	4.3	1.06	MM
4	200528R2_4	200	0.98	NO	39.33	1.000	1.13e6	5.18e5	214	7.2	1.09	bb
5	200528R2_5	1500	1.00	NO	39.34	1.000	1.05e7	6.39e5	1620	8.2	1.10	bb
6	200528R2_6	50.0	0.98	NO	39.34	1.000	2.00e5	3.75e5	52.7	5.4	1.07	bb

Compound name: OCDF

Response Factor: 0.806476

RRF SD: 0.0306481, Relative SD: 3.80025

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.87	NO	41.96	1.000	1.27e4	1.35e6	2.33	-6.6	0.753	bb
2	200528R2_2	5.00	0.84	NO	41.96	1.000	2.40e4	1.22e6	4.89	-2.2	0.789	bb
3	200528R2_3	20.0	0.86	NO	41.96	1.000	9.80e4	1.18e6	20.6	3.0	0.831	bb
4	200528R2_4	400	0.87	NO	41.96	1.000	2.54e6	1.57e6	402	0.5	0.810	bb
5	200528R2_5	3000	0.88	NO	41.98	1.000	2.39e7	1.92e6	3090	3.1	0.831	bb
6	200528R2_6	100	0.85	NO	41.97	1.000	4.44e5	1.08e6	102	2.3	0.825	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.15633

RRF SD: 0.0999567, Relative SD: 8.64433

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	26.54	1.026	1.43e6	1.11e6	111	11.2	1.29	bb
2	200528R2_2	100	0.79	NO	26.54	1.025	1.29e6	1.24e6	89.8	-10.2	1.04	bb
3	200528R2_3	100	0.79	NO	26.54	1.025	1.31e6	1.26e6	89.8	-10.2	1.04	bb
4	200528R2_4	100	0.79	NO	26.54	1.025	1.50e6	1.26e6	103	2.8	1.19	bb
5	200528R2_5	100	0.78	NO	26.56	1.025	1.52e6	1.24e6	106	5.5	1.22	bb
6	200528R2_6	100	0.79	NO	26.56	1.025	1.16e6	9.95e5	101	0.8	1.17	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.848975

RRF SD: 0.0899186, Relative SD: 10.5914

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.64	NO	31.48	1.216	1.00e6	1.11e6	107	6.6	0.905	bb
2	200528R2_2	100	0.63	NO	31.50	1.216	9.36e5	1.24e6	88.7	-11.3	0.753	bb
3	200528R2_3	100	0.63	NO	31.50	1.216	9.29e5	1.26e6	86.8	-13.2	0.737	bb
4	200528R2_4	100	0.64	NO	31.50	1.216	1.11e6	1.26e6	103	3.3	0.877	bb
5	200528R2_5	100	0.64	NO	31.50	1.215	1.21e6	1.24e6	114	14.3	0.970	bb
6	200528R2_6	100	0.64	NO	31.50	1.215	8.48e5	9.95e5	100	0.3	0.852	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.778953

RRF SD: 0.096377, Relative SD: 12.3726

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.85	1.014	6.95e5	8.40e5	106	6.2	0.827	bd
2	200528R2_2	100	1.28	NO	34.87	1.014	6.46e5	9.66e5	85.9	-14.1	0.669	bd

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Compound name: 13C-1,2,3,4,7,8-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	1.27	NO	34.87	1.014	6.61e5	9.75e5	87.0	-13.0	0.678	bd
4	200528R2_4	100	1.28	NO	34.86	1.014	7.89e5	9.81e5	103	3.4	0.805	bd
5	200528R2_5	100	1.28	NO	34.87	1.014	9.34e5	1.01e6	119	18.6	0.924	bd
6	200528R2_6	100	1.27	NO	34.88	1.014	6.04e5	7.84e5	98.9	-1.1	0.770	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 1.01669

RRF SD: 0.116266, Relative SD: 11.4358

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.95	1.017	9.27e5	8.40e5	108	8.5	1.10	db
2	200528R2_2	100	1.27	NO	34.96	1.017	8.61e5	9.66e5	87.7	-12.3	0.891	db
3	200528R2_3	100	1.26	NO	34.97	1.017	8.39e5	9.75e5	84.7	-15.3	0.861	db
4	200528R2_4	100	1.25	NO	34.96	1.017	1.03e6	9.81e5	104	3.5	1.05	db
5	200528R2_5	100	1.27	NO	34.97	1.017	1.17e6	1.01e6	113	13.4	1.15	db
6	200528R2_6	100	1.23	NO	34.97	1.017	8.15e5	7.84e5	102	2.3	1.04	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.902653

RRF SD: 0.11238, Relative SD: 12.45

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.23	NO	35.24	1.025	8.33e5	8.40e5	110	9.8	0.991	bb
2	200528R2_2	100	1.26	NO	35.25	1.025	7.48e5	9.66e5	85.8	-14.2	0.774	bb
3	200528R2_3	100	1.28	NO	35.25	1.025	7.53e5	9.75e5	85.6	-14.4	0.773	bd
4	200528R2_4	100	1.23	NO	35.25	1.025	9.12e5	9.81e5	103	3.1	0.930	MM
5	200528R2_5	100	1.26	NO	35.26	1.025	1.06e6	1.01e6	116	16.1	1.05	bb
6	200528R2_6	100	1.18	NO	35.26	1.025	7.05e5	7.84e5	99.6	-0.4	0.899	bb

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

Response Factor: 0.689179
 RRF SD: 0.0899136, Relative SD: 13.0465
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.06	NO	38.77	1.128	6.48e5	8.40e5	112	11.9	0.771	MM
2	200528R2_2	100	1.04	NO	38.78	1.128	6.01e5	9.66e5	90.2	-9.8	0.622	bd
3	200528R2_3	100	1.12	NO	38.79	1.128	5.57e5	9.75e5	83.0	-17.0	0.572	bd
4	200528R2_4	100	1.04	NO	38.78	1.128	6.86e5	9.81e5	102	1.6	0.700	MM
5	200528R2_5	100	1.03	NO	38.80	1.128	8.18e5	1.01e6	117	17.4	0.809	bb
6	200528R2_6	100	1.04	NO	38.80	1.128	5.18e5	7.84e5	95.9	-4.1	0.661	bd

Compound name: 13C-OCDD

Response Factor: 0.652099
 RRF SD: 0.111511, Relative SD: 17.1002
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.89	NO	41.75	1.215	1.18e6	8.40e5	216	7.8	0.703	MM
2	200528R2_2	200	0.89	NO	41.76	1.215	1.05e6	9.66e5	167	-16.3	0.546	MM
3	200528R2_3	200	0.91	NO	41.76	1.214	1.03e6	9.75e5	162	-18.9	0.529	bd
4	200528R2_4	200	0.90	NO	41.76	1.215	1.35e6	9.81e5	211	5.7	0.689	bd
5	200528R2_5	200	0.93	NO	41.78	1.215	1.67e6	1.01e6	254	26.9	0.827	bd
6	200528R2_6	200	0.88	NO	41.77	1.215	9.71e5	7.84e5	190	-5.1	0.619	bd

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.05898
 RRF SD: 0.0854755, Relative SD: 8.07146
 Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.76	NO	25.65	0.991	1.95e6	1.65e6	112	12.1	1.19	bb
2	200528R2_2	100	0.77	NO	25.66	0.991	1.78e6	1.83e6	92.1	-7.9	0.975	bb

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Compound name: 13C-2,3,7,8-TCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.78	NO	25.66	0.991	1.80e6	1.89e6	90.1	-9.9	0.955	bb
4	200528R2_4	100	0.78	NO	25.66	0.991	2.04e6	1.91e6	101	1.0	1.07	bb
5	200528R2_5	100	0.78	NO	25.67	0.991	2.04e6	1.85e6	104	4.2	1.10	bb
6	200528R2_6	100	0.77	NO	25.68	0.991	1.59e6	1.49e6	101	0.5	1.06	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.837982

RRF SD: 0.0870192, Relative SD: 10.3844

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.59	NO	30.20	1.167	1.50e6	1.65e6	109	9.0	0.913	bb
2	200528R2_2	100	1.59	NO	30.22	1.167	1.37e6	1.83e6	89.3	-10.7	0.748	bb
3	200528R2_3	100	1.59	NO	30.22	1.167	1.38e6	1.89e6	86.9	-13.1	0.728	bb
4	200528R2_4	100	1.61	NO	30.22	1.167	1.63e6	1.91e6	102	1.9	0.854	bb
5	200528R2_5	100	1.63	NO	30.22	1.166	1.75e6	1.85e6	113	12.9	0.946	bb
6	200528R2_6	100	1.60	NO	30.23	1.166	1.25e6	1.49e6	100	0.0	0.838	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.816557

RRF SD: 0.0702322, Relative SD: 8.60101

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.60	NO	31.18	1.204	1.42e6	1.65e6	106	5.9	0.865	db
2	200528R2_2	100	1.57	NO	31.19	1.204	1.35e6	1.83e6	90.7	-9.3	0.741	db
3	200528R2_3	100	1.61	NO	31.19	1.204	1.38e6	1.89e6	89.4	-10.6	0.730	db
4	200528R2_4	100	1.61	NO	31.19	1.204	1.57e6	1.91e6	101	1.0	0.825	db
5	200528R2_5	100	1.60	NO	31.19	1.204	1.69e6	1.85e6	112	11.5	0.911	bb
6	200528R2_6	100	1.59	NO	31.21	1.204	1.24e6	1.49e6	101	1.4	0.828	db

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.00752

RRF SD: 0.115021, Relative SD: 11.4162

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	33.97	0.988	9.42e5	8.40e5	111	11.3	1.12	bd
2	200528R2_2	100	0.50	NO	33.98	0.988	8.49e5	9.66e5	87.2	-12.8	0.878	bd
3	200528R2_3	100	0.50	NO	33.98	0.988	8.47e5	9.75e5	86.2	-13.8	0.869	bd
4	200528R2_4	100	0.50	NO	33.98	0.988	1.02e6	9.81e5	103	3.0	1.04	bd
5	200528R2_5	100	0.50	NO	33.99	0.988	1.15e6	1.01e6	113	12.7	1.14	bd
6	200528R2_6	100	0.50	NO	33.99	0.988	7.87e5	7.84e5	99.6	-0.4	1.00	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.16702

RRF SD: 0.127304, Relative SD: 10.9085

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.09	0.992	1.07e6	8.40e5	110	9.5	1.28	db
2	200528R2_2	100	0.51	NO	34.11	0.992	9.70e5	9.66e5	86.1	-13.9	1.00	db
3	200528R2_3	100	0.51	NO	34.11	0.992	1.01e6	9.75e5	88.5	-11.5	1.03	db
4	200528R2_4	100	0.51	NO	34.10	0.992	1.18e6	9.81e5	103	3.1	1.20	db
5	200528R2_5	100	0.51	NO	34.11	0.992	1.33e6	1.01e6	113	13.0	1.32	db
6	200528R2_6	100	0.50	NO	34.12	0.992	9.14e5	7.84e5	99.8	-0.2	1.17	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 1.02186

RRF SD: 0.110658, Relative SD: 10.829

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	34.68	1.009	9.22e5	8.40e5	107	7.4	1.10	bb
2	200528R2_2	100	0.50	NO	34.69	1.009	8.66e5	9.66e5	87.7	-12.3	0.896	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

Compound name: 13C-2,3,4,6,7,8-HxCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.51	NO	34.70	1.009	8.69e5	9.75e5	87.2	-12.8	0.891	bb
4	200528R2_4	100	0.51	NO	34.69	1.009	1.04e6	9.81e5	104	3.6	1.06	bb
5	200528R2_5	100	0.50	NO	34.70	1.009	1.18e6	1.01e6	114	14.3	1.17	bb
6	200528R2_6	100	0.51	NO	34.71	1.009	8.00e5	7.84e5	99.8	-0.2	1.02	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.859541

RRF SD: 0.107178, Relative SD: 12.4692

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	35.59	1.036	7.73e5	8.40e5	107	7.0	0.919	MM
2	200528R2_2	100	0.50	NO	35.61	1.036	7.04e5	9.66e5	84.8	-15.2	0.729	MM
3	200528R2_3	100	0.50	NO	35.61	1.036	7.27e5	9.75e5	86.8	-13.2	0.746	MM
4	200528R2_4	100	0.49	NO	35.60	1.036	8.84e5	9.81e5	105	4.9	0.902	bb
5	200528R2_5	100	0.51	NO	35.62	1.036	1.02e6	1.01e6	117	17.3	1.01	bb
6	200528R2_6	100	0.51	NO	35.63	1.036	6.70e5	7.84e5	99.3	-0.7	0.854	bd

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

Response Factor: 0.774499

RRF SD: 0.102271, Relative SD: 13.2048

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.44	NO	37.37	1.087	7.13e5	8.40e5	110	9.6	0.849	bd
2	200528R2_2	100	0.42	NO	37.38	1.087	6.49e5	9.66e5	86.7	-13.3	0.672	bb
3	200528R2_3	100	0.44	NO	37.38	1.087	6.48e5	9.75e5	85.9	-14.1	0.665	bd
4	200528R2_4	100	0.44	NO	37.38	1.087	7.67e5	9.81e5	101	0.9	0.782	bb
5	200528R2_5	100	0.44	NO	37.39	1.087	9.39e5	1.01e6	120	19.9	0.928	bd
6	200528R2_6	100	0.43	NO	37.39	1.087	5.89e5	7.84e5	97.0	-3.0	0.751	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.520991

RRF SD: 0.083066, Relative SD: 15.9439

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.43	NO	39.31	1.144	5.09e5	8.40e5	116	16.3	0.606	MM
2	200528R2_2	100	0.42	NO	39.32	1.144	4.36e5	9.66e5	86.7	-13.3	0.452	bb
3	200528R2_3	100	0.42	NO	39.33	1.144	4.19e5	9.75e5	82.5	-17.5	0.430	MM
4	200528R2_4	100	0.42	NO	39.32	1.144	5.18e5	9.81e5	101	1.4	0.529	MM
5	200528R2_5	100	0.44	NO	39.33	1.144	6.39e5	1.01e6	121	21.3	0.632	bb
6	200528R2_6	100	0.43	NO	39.34	1.144	3.75e5	7.84e5	91.8	-8.2	0.478	bd

Compound name: 13C-OCDF

Response Factor: 0.745653

RRF SD: 0.129429, Relative SD: 17.3579

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.87	NO	41.94	1.220	1.35e6	8.40e5	215	7.6	0.803	bb
2	200528R2_2	200	0.83	NO	41.95	1.220	1.22e6	9.66e5	169	-15.4	0.631	bb
3	200528R2_3	200	0.90	NO	41.96	1.220	1.18e6	9.75e5	162	-18.8	0.605	bd
4	200528R2_4	200	0.88	NO	41.95	1.220	1.57e6	9.81e5	215	7.3	0.800	MM
5	200528R2_5	200	0.88	NO	41.97	1.220	1.92e6	1.01e6	254	27.2	0.949	bb
6	200528R2_6	200	0.90	NO	41.96	1.220	1.08e6	7.84e5	184	-7.9	0.687	MM

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.03685

RRF SD: 0.126311, Relative SD: 12.1822

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250			26.57	1.027	2.71e3	1.11e6	0.235	-5.9	0.976	bb
2	200528R2_2	0.500			26.56	1.025	5.67e3	1.24e6	0.440	-11.9	0.913	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	2.00			26.57	1.026	2.30e4	1.26e6	1.76	-12.0	0.912	bd
4	200528R2_4	40.0			26.56	1.025	5.78e5	1.26e6	44.1	10.2	1.14	bb
5	200528R2_5	200			26.57	1.025	3.03e6	1.24e6	235	17.7	1.22	bb
6	200528R2_6	10.0			26.59	1.026	1.05e5	9.95e5	10.2	2.1	1.06	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	25.89	1.000	1.11e6	1.11e6	100	0.0	1.00	bb
2	200528R2_2	100	0.81	NO	25.90	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
3	200528R2_3	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
4	200528R2_4	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
5	200528R2_5	100	0.80	NO	25.92	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
6	200528R2_6	100	0.80	NO	25.92	1.000	9.95e5	9.95e5	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.78	NO	24.22	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	200528R2_2	100	0.78	NO	24.22	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
3	200528R2_3	100	0.78	NO	24.22	1.000	1.89e6	1.89e6	100	0.0	1.00	bb
4	200528R2_4	100	0.79	NO	24.22	1.000	1.91e6	1.91e6	100	0.0	1.00	bb
5	200528R2_5	100	0.79	NO	24.24	1.000	1.85e6	1.85e6	100	0.0	1.00	bb
6	200528R2_6	100	0.77	NO	24.24	1.000	1.49e6	1.49e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.37	1.000	8.40e5	8.40e5	100	0.0	1.00	bb
2	200528R2_2	100	0.51	NO	34.38	1.000	9.66e5	9.66e5	100	0.0	1.00	bb
3	200528R2_3	100	0.51	NO	34.39	1.000	9.75e5	9.75e5	100	0.0	1.00	bb
4	200528R2_4	100	0.51	NO	34.38	1.000	9.81e5	9.81e5	100	0.0	1.00	bb
5	200528R2_5	100	0.51	NO	34.39	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
6	200528R2_6	100	0.50	NO	34.39	1.000	7.84e5	7.84e5	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.59
2	2 1,2,8,9-TCDD (Last)	27.53
3	3 1,2,4,7,9-PeCDD (First)	29.32
4	4 1,2,3,8,9-PeCDD (Last)	31.89
5	5 1,2,4,6,7,9-HxCDD (First)	33.39
6	6 1,2,3,7,8,9-HxCDD (Last)	35.27
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.81
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.81
9	9 1,3,6,8-TCDF (First)	20.44
10	10 1,2,8,9-TCDF (Last)	27.68
11	11 1,3,4,6,8-PeCDF (First)	27.64
12	12 1,2,3,8,9-PeCDF (Last)	32.14
13	13 1,2,3,4,6,8-HxCDF (First)	32.83
14	14 1,2,3,7,8,9-HxCDF (Last)	35.63
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.41
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.34

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

GRB 05/29/2020

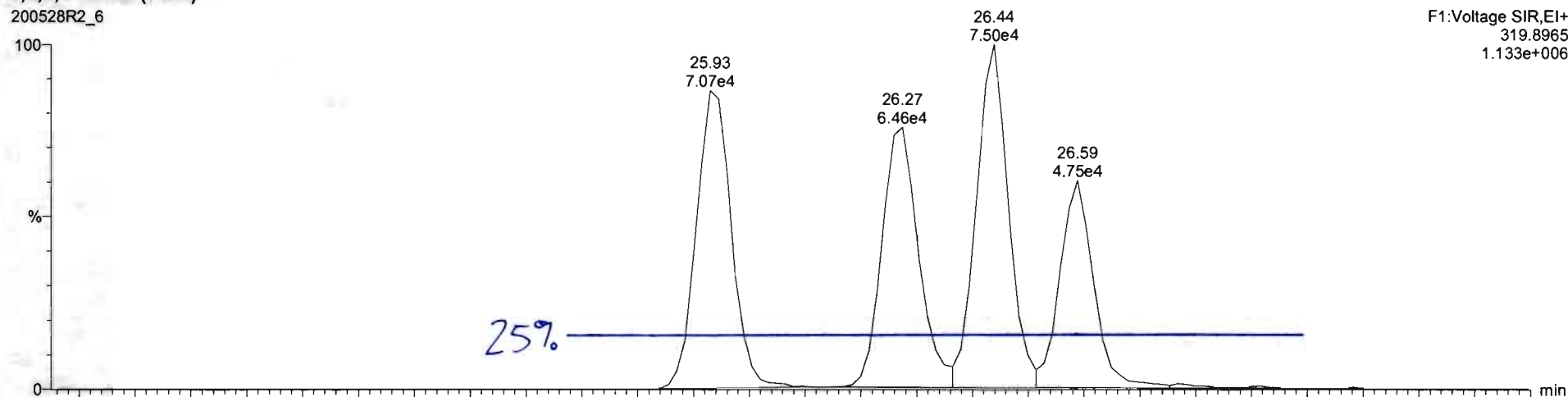
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

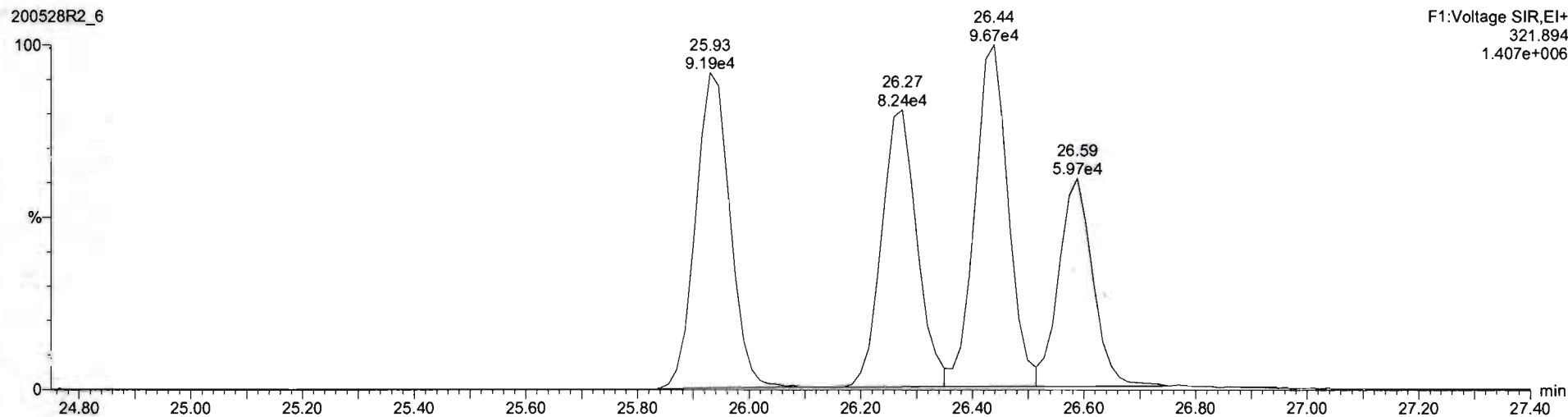
Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200528R2_6



200528R2_6



Dataset: Untitled

Last Altered: Friday, May 29, 2020 8:08:41 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 8:08:46 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

	Name	ID	Acq.Date	Acq.Time
1	200528R2_1	ST200528R2_1 1613 CS0 19L2302	28-May-20	11:53:52
2	200528R2_2	ST200528R2_2 1613 CS1 19L2303	28-May-20	12:41:31
3	200528R2_3	ST200528R2_3 1613 CS2 19L2304	28-May-20	13:28:43
4	200528R2_4	ST200528R2_4 1613 CS4 19L2306	28-May-20	14:15:50
5	200528R2_5	ST200528R2_5 1613 CS5 19L2307	28-May-20	15:02:56
6	200528R2_6	ST200528R2_6 1613 CS3 19L2305	28-May-20	15:50:32
7	200528R2_7	SOLVENT BLANK	28-May-20	16:37:46
8	200528R2_8	SS200528R2_1 1613 SSS 19L2308	28-May-20	17:24:01
9	200528R2_9	B0E0131-BS1 OPR 1	28-May-20	18:10:13
10	200528R2_10	B0E0165-BS1 OPR 1	28-May-20	18:56:26
11	200528R2_11	B0E0127-BS1 OPR 1	28-May-20	19:42:36
12	200528R2_12	B0E0180-BS1 OPR 10	28-May-20	20:28:48
13	200528R2_13	SOLVENT BLANK	28-May-20	21:15:00
14	200528R2_14	B0E0180-BLK1 Method Blank 10	28-May-20	22:01:12
15	200528R2_15	B0E0131-BLK1 Method Blank 1	28-May-20	22:47:24
16	200528R2_16	B0E0165-BLK1 Method Blank 1	28-May-20	23:33:37
17	200528R2_17	B0E0127-BLK1 Method Blank 1	29-May-20	00:19:48
18	200528R2_18	2001052-01 ZID-001 1.00002	29-May-20	01:06:00
19	200528R2_19	2001031-01 Forebay Composite (24hr) 0.95078	29-May-20	01:52:12
20	200528R2_20	2001092-01 OF-031A BiWeekly Composite D/...	29-May-20	02:38:24

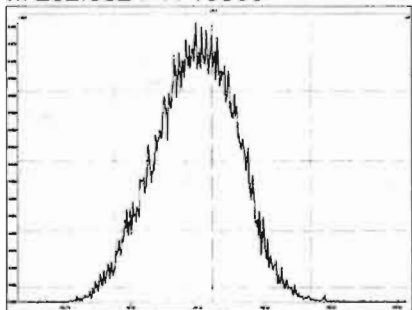
Experiment Calibration Report

MassLynx 4.1 SCN815

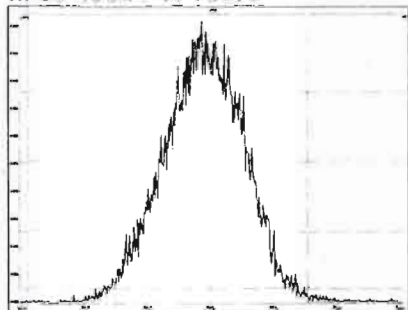
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Printed: Thursday, May 28, 2020 11:48:59 Pacific Daylight Time

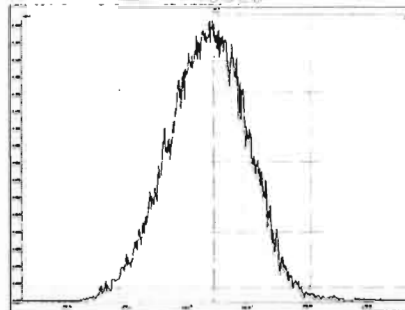
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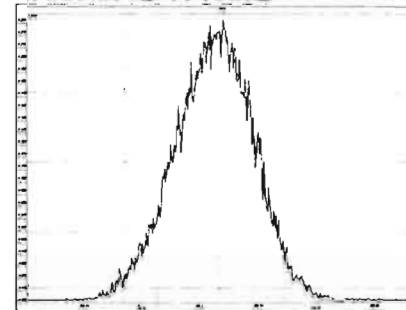
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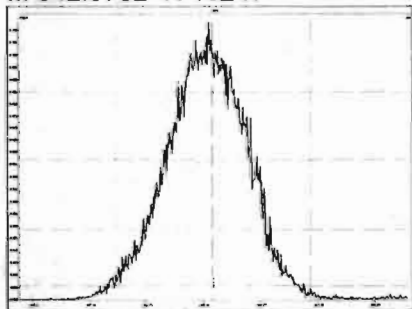
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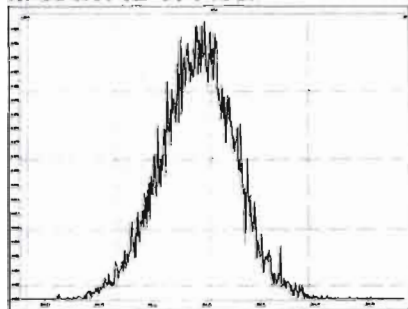
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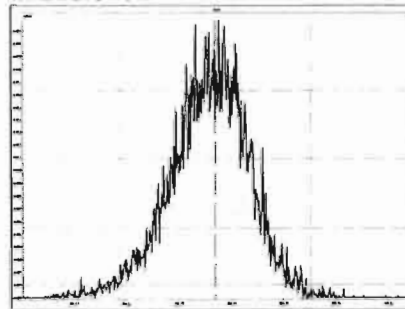
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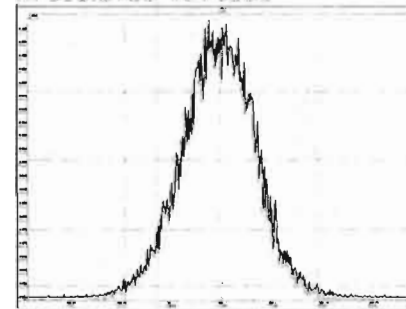
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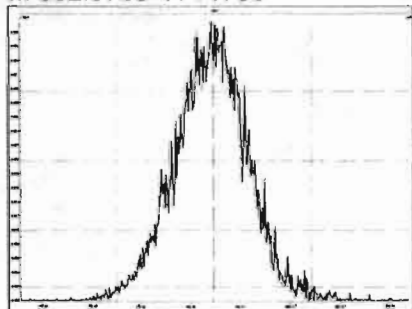
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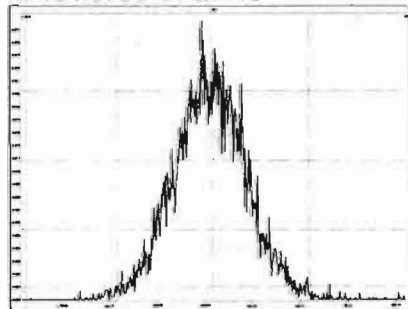
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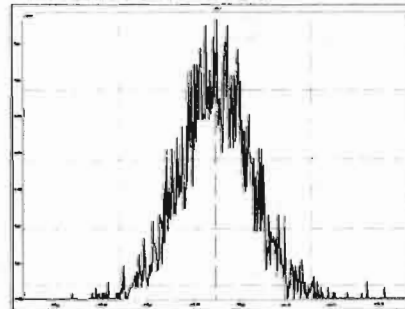
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M 404.9760 R 12316



M 416.9760 R 12754



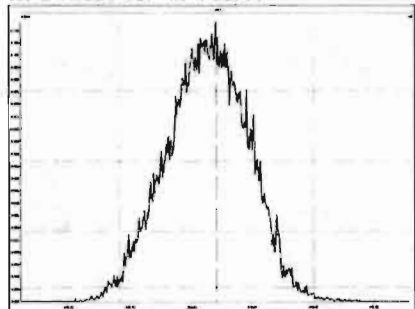
Experiment Calibration Report

MassLynx 4.1 SCN815

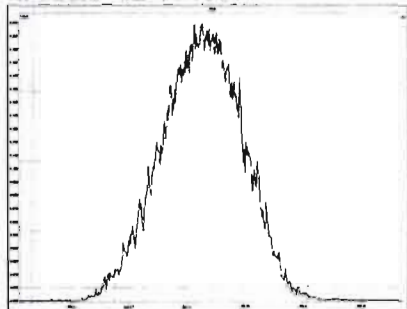
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Printed: Thursday, May 28, 2020 11:49:33 Pacific Daylight Time

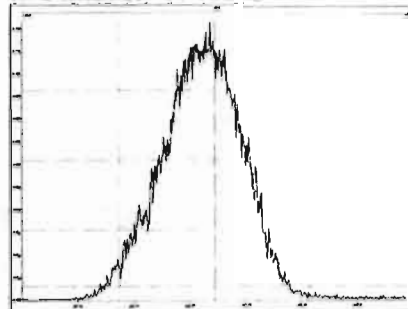
M 318.9792 R 10247



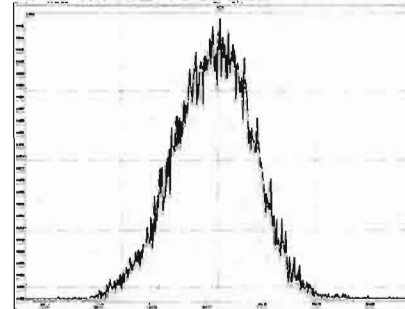
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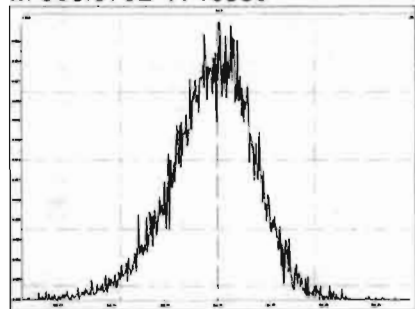
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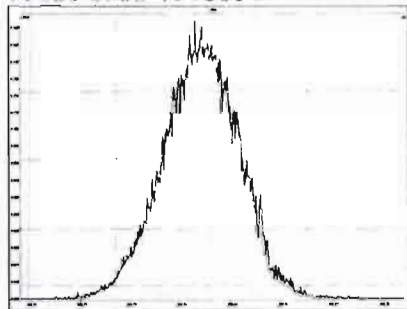
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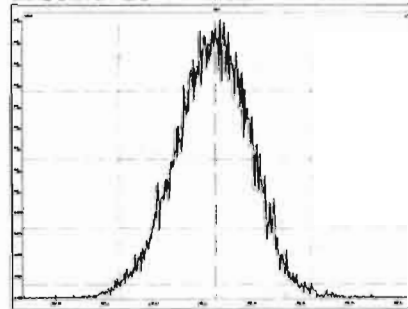
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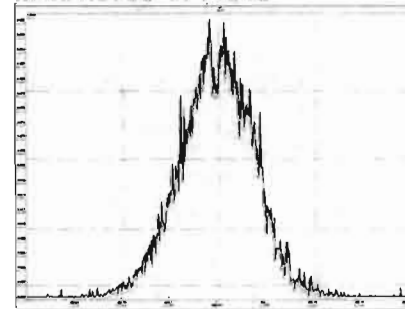
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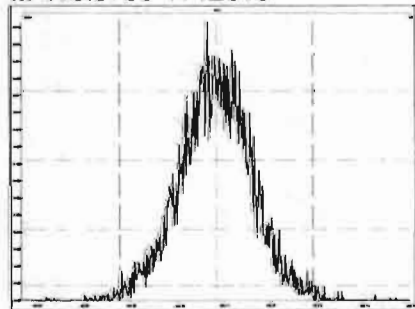
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M 416.9760 R 12018



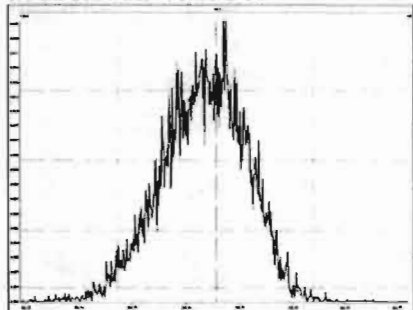
Experiment Calibration Report

MassLynx 4.1 SCN815

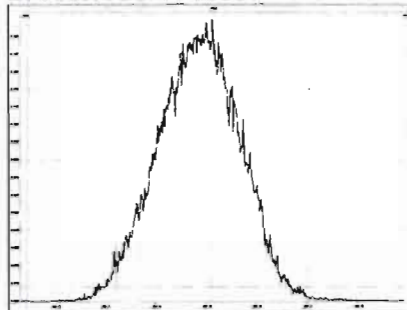
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:50:12 Pacific Daylight Time

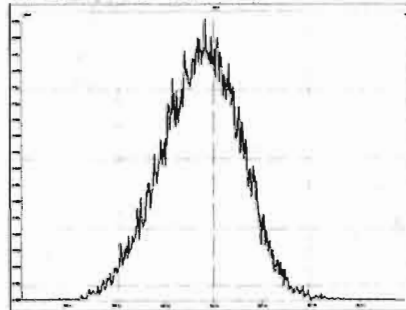
M 366.9792 R 10641



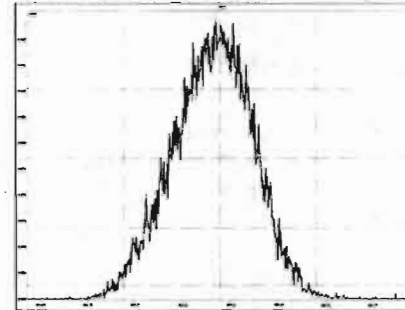
M 380.9760 R 10331



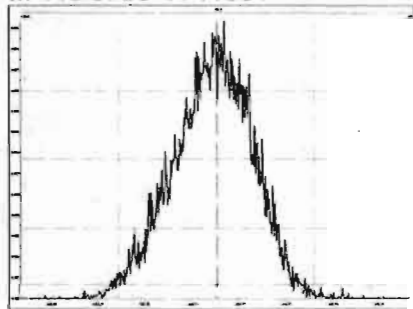
M 392.9760 R 10459



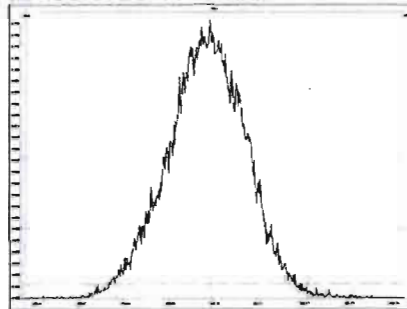
M 404.9760 R 10505



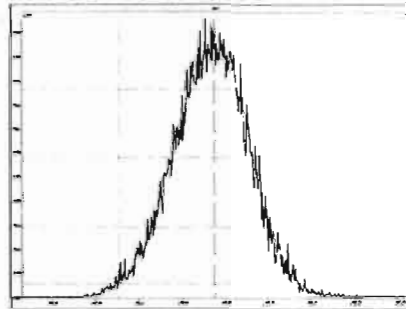
M 416.9760 R 11061



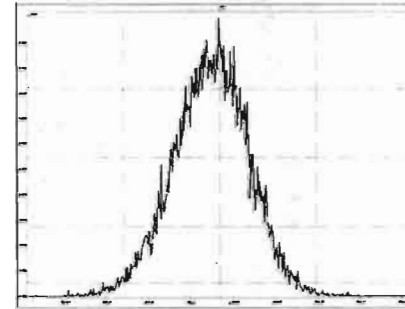
M 430.9728 R 10290



M 442.9728 R 10593



M 454.9728 R 10919



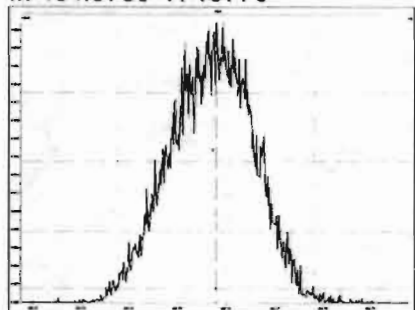
Experiment Calibration Report

MassLynx 4.1 SCN815

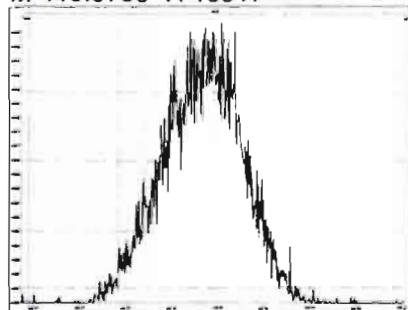
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time

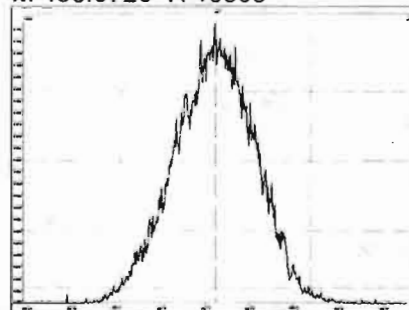
M 404.9760 R 10778



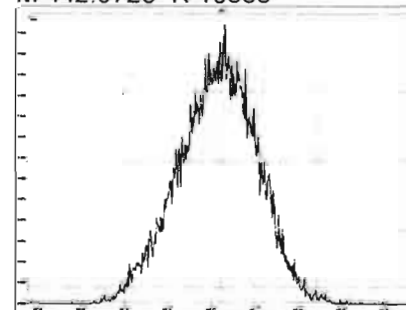
M 416.9760 R 10917



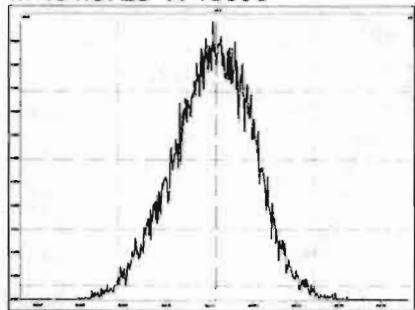
M 430.9728 R 10503



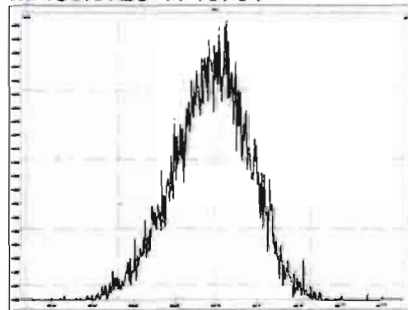
M 442.9728 R 10636



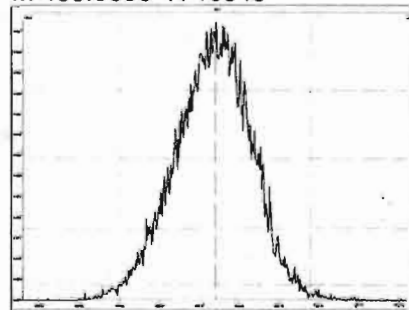
M 454.9728 R 10638



M 466.9728 R 10731



M 480.9696 R 10545



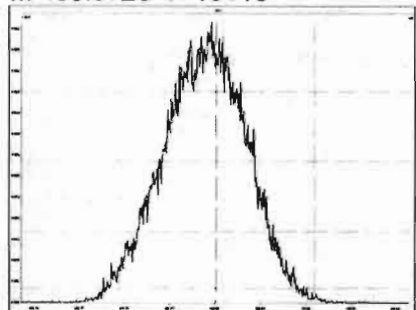
Experiment Calibration Report

MassLynx 4.1 SCN815

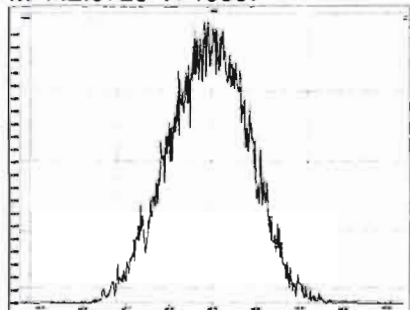
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:51:45 Pacific Daylight Time

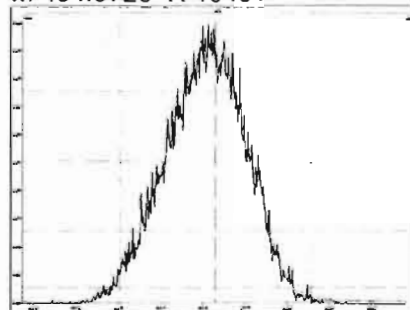
M 430.9728 R 10118



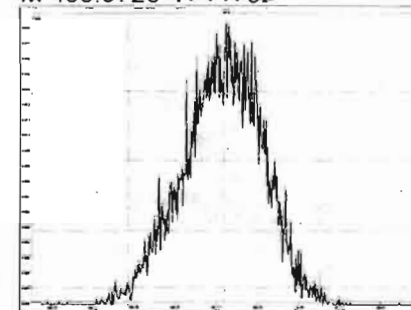
M 442.9728 R 10637



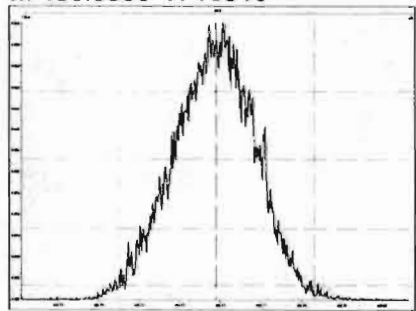
M 454.9728 R 10461



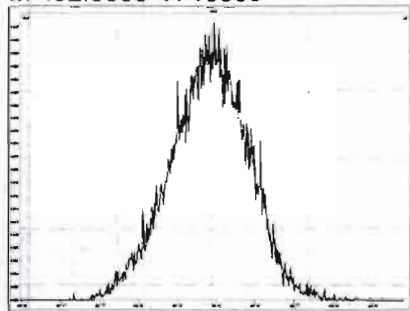
M 466.9728 R 11792



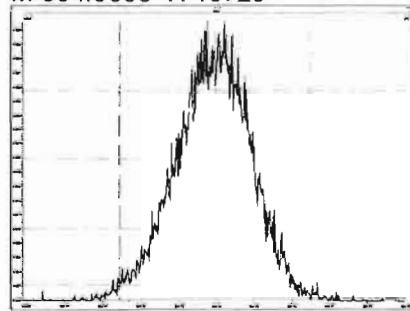
M 480.9696 R 10915



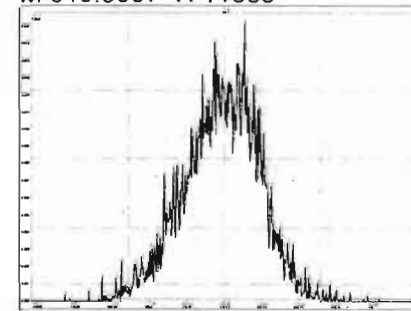
M 492.9696 R 10639



M 504.9696 R 10729



M 516.9697 R 11683



Dataset: Untitled

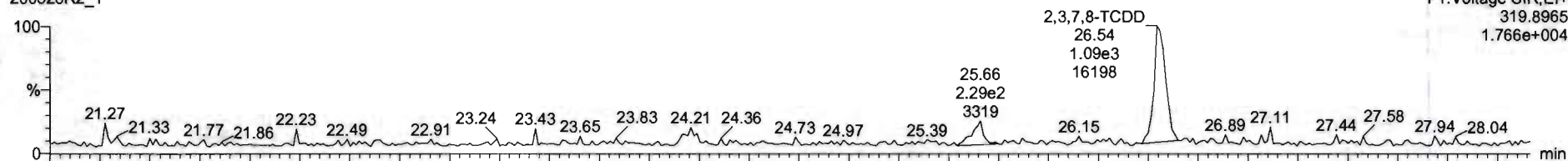
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Calibration: 29 May 2020 07:49:30

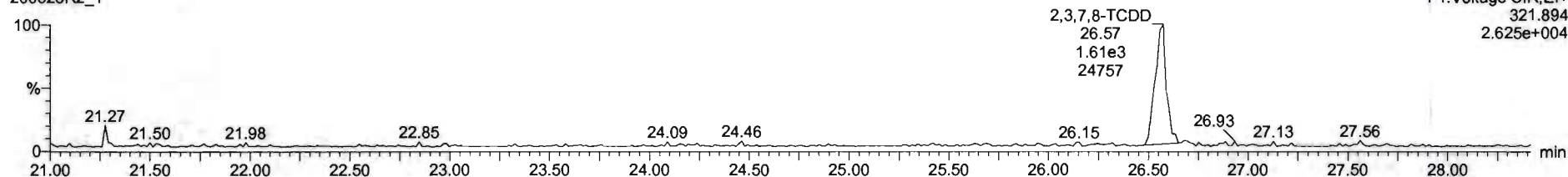
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2,3,7,8-TCDD

200528R2_1

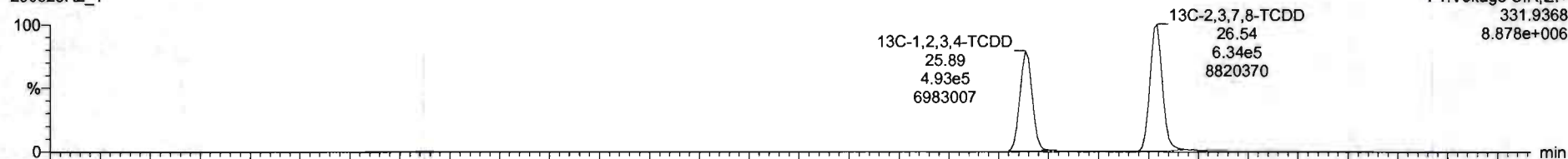


200528R2_1

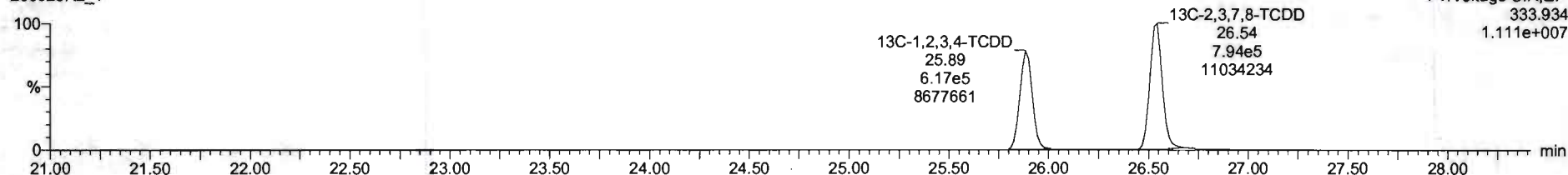


13C-2,3,7,8-TCDD

200528R2_1



200528R2_1



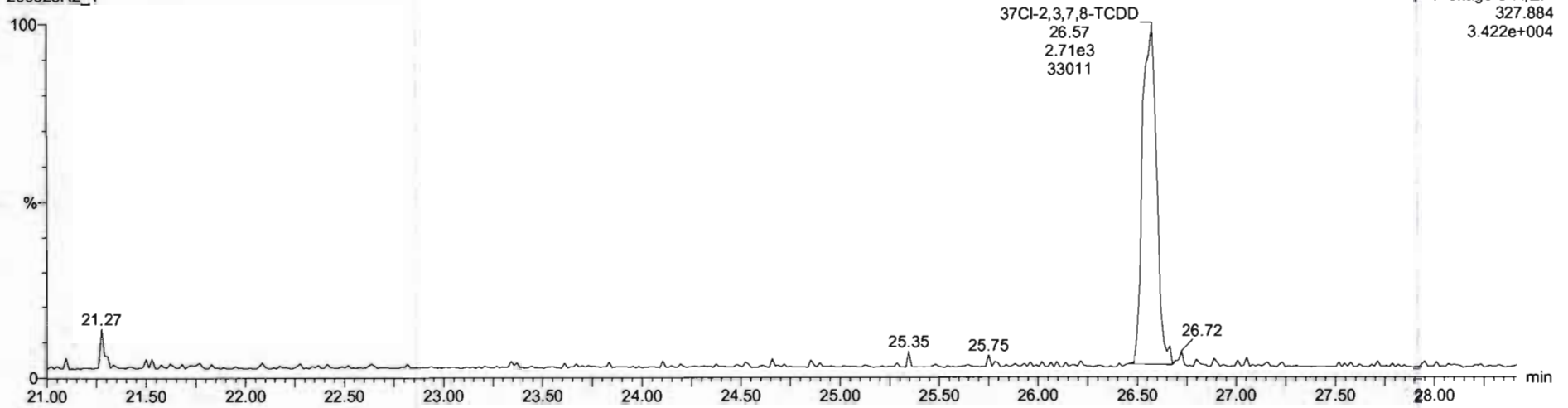
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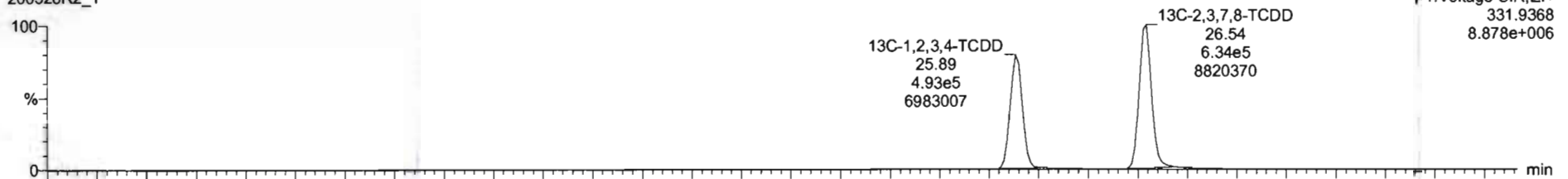
37Cl-2,3,7,8-TCDD

200528R2_1

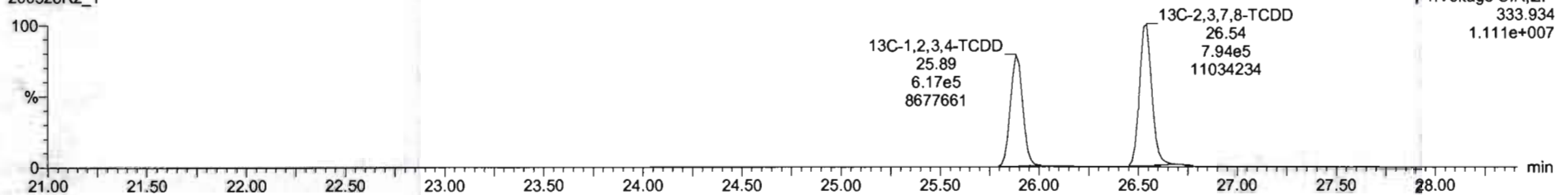


13C-1,2,3,4-TCDD

200528R2_1



200528R2_1



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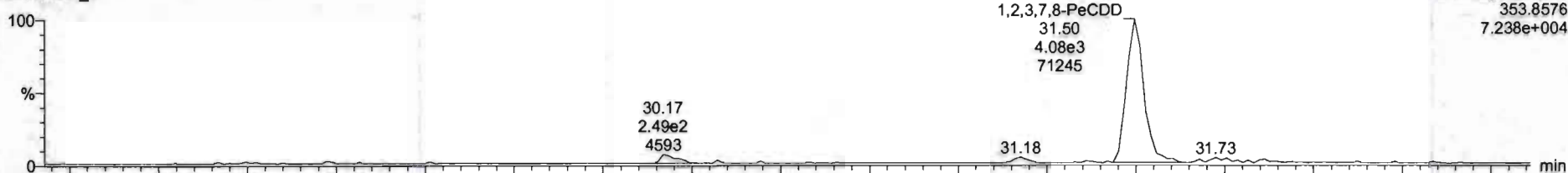
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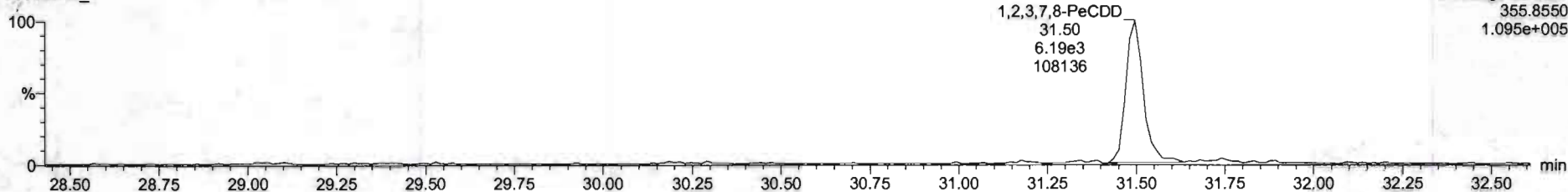
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1,2,3,7,8-PeCDD

200528R2_1

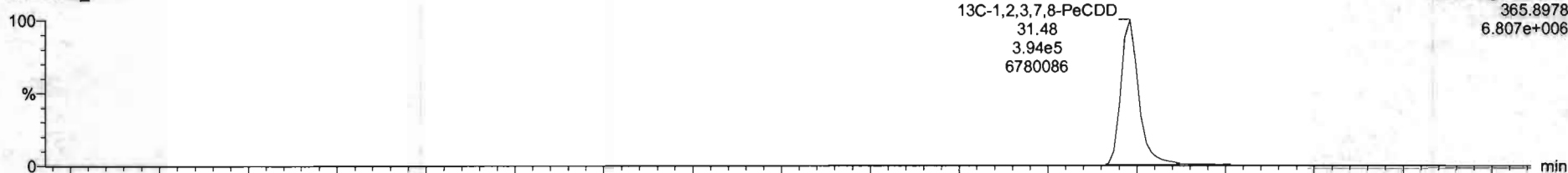


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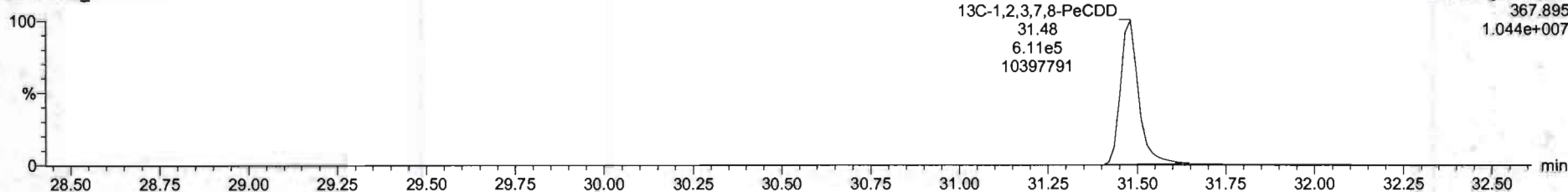


13C-1,2,3,7,8-PeCDD

200528R2_1



200528R2_1



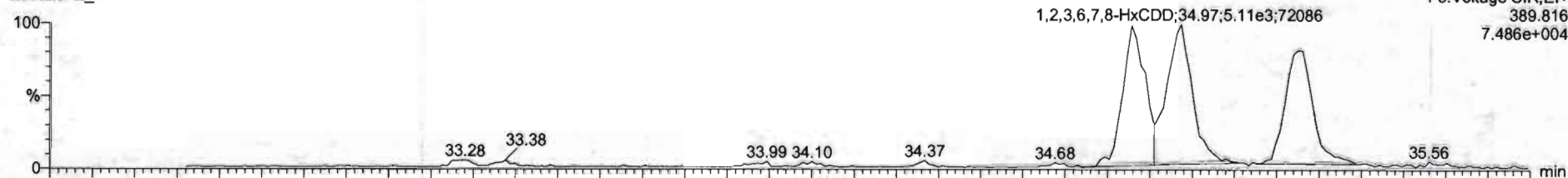
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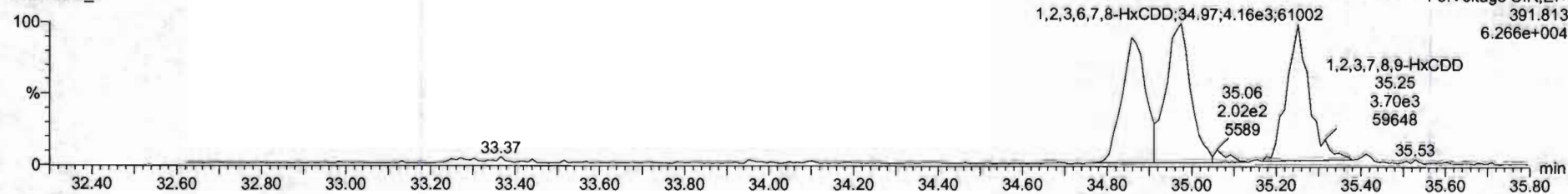
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1,2,3,4,7,8-HxCDD

200528R2_1

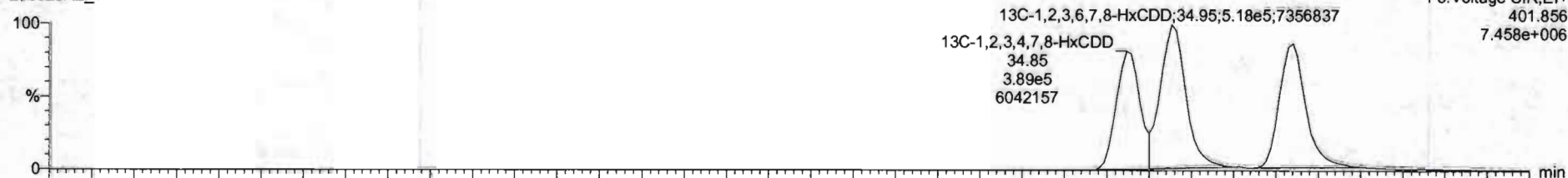


200528R2_1

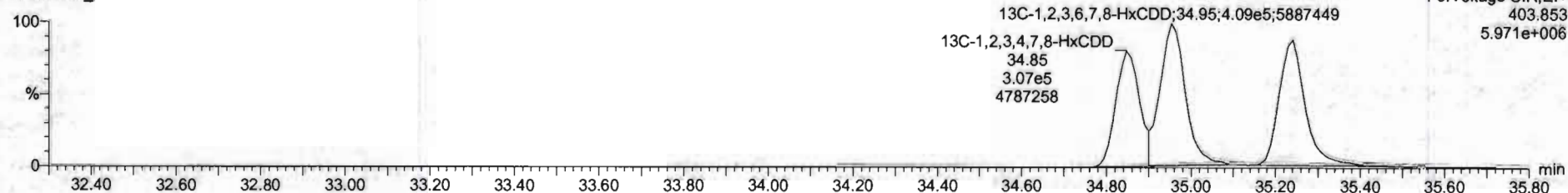


13C-1,2,3,4,7,8-HxCDD

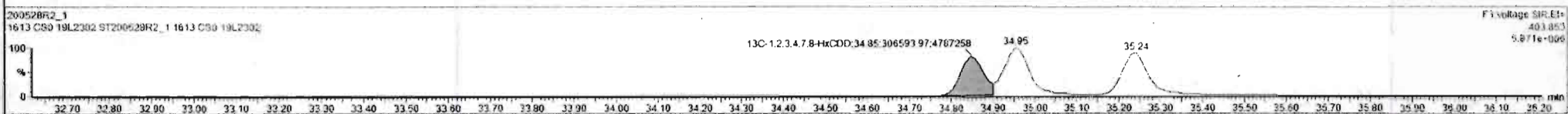
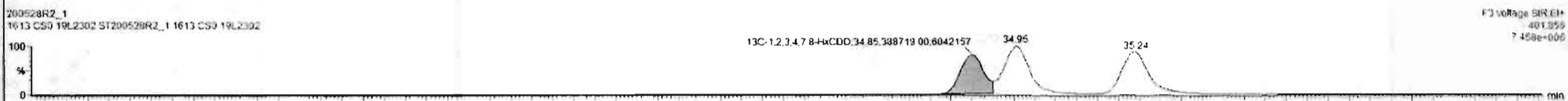
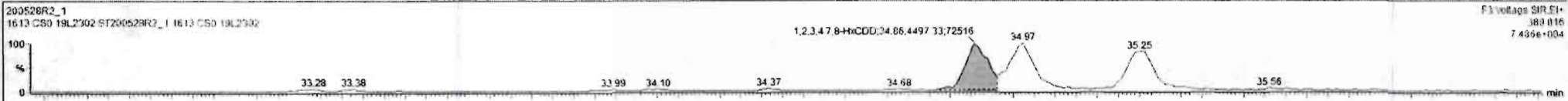
200528R2_1



200528R2_1



Name	Resp	RA	Rel	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.78e3	0.56	NO	0.8583	1.000	26.54	1.000	0.213	35.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0428	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8539	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.23e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	39.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0369	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8562	1.000	34.11	1.001	1.12	89.2	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8787	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19 13C-1,2,3,7,8-PeCDD	1.06e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



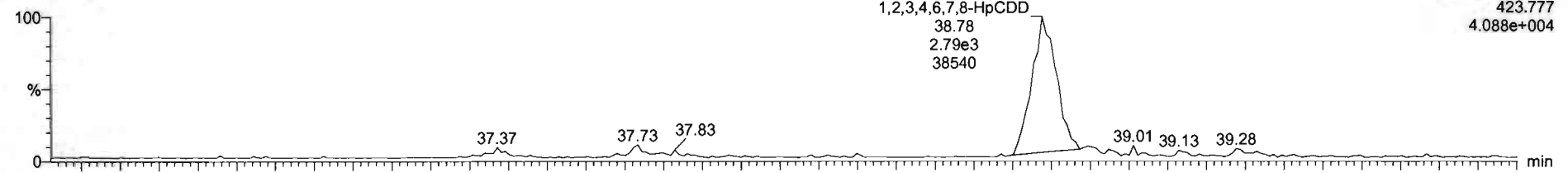
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

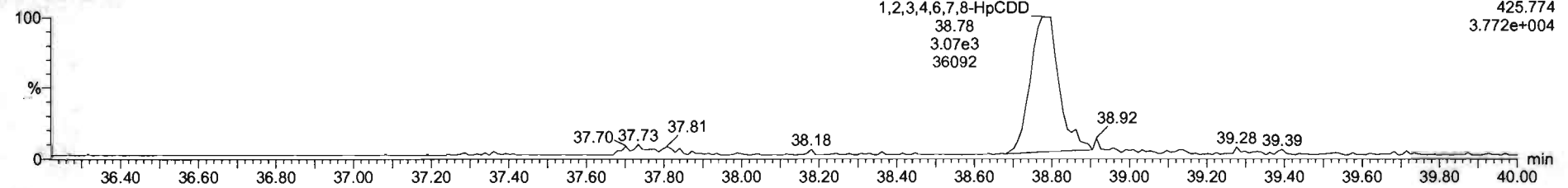
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1,2,3,4,6,7,8-HpCDD

200528R2_1

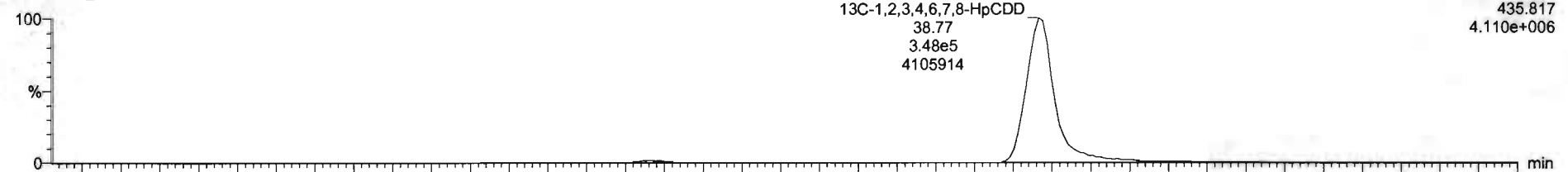


200528R2_1

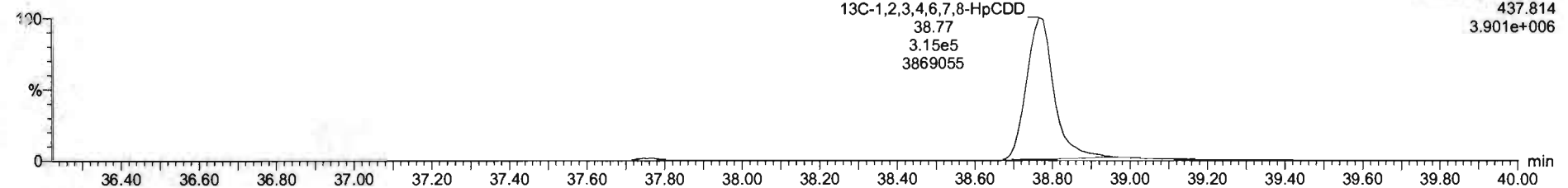


13C-1,2,3,4,6,7,8-HpCDD

200528R2_1



200528R2_1



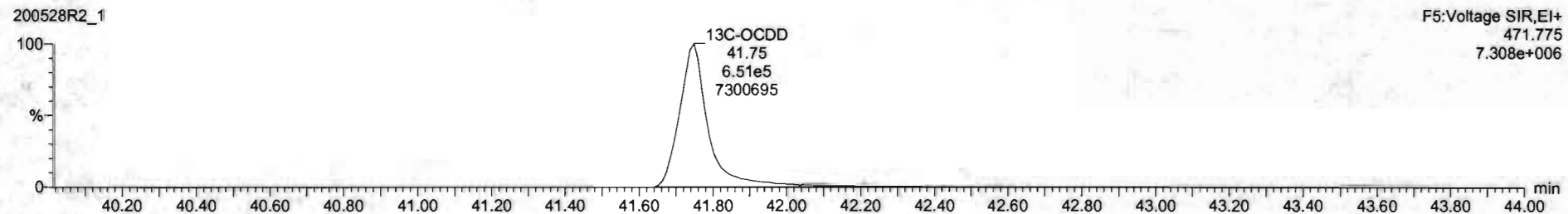
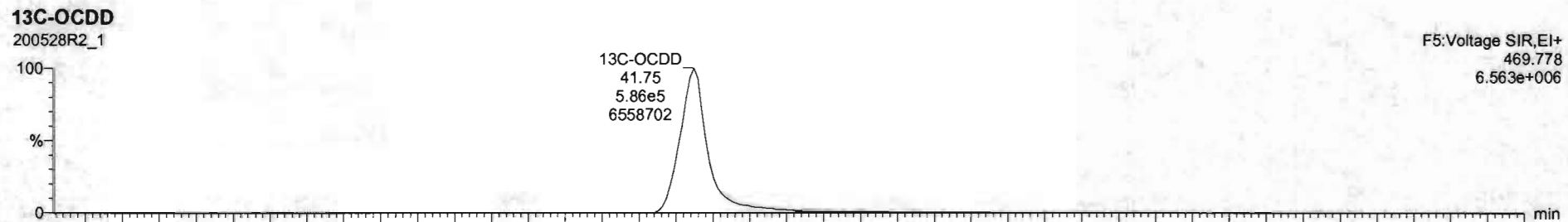
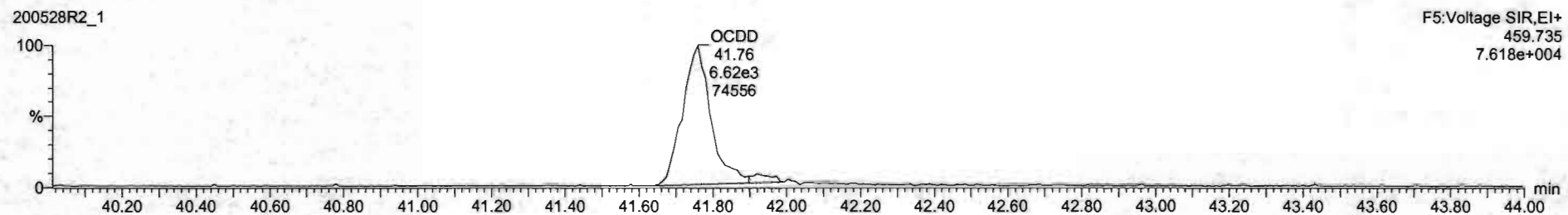
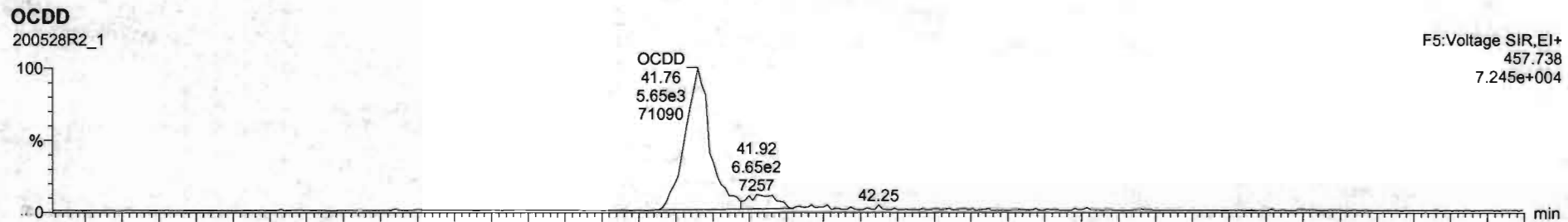
SI	Name	Reap	RA	nty	RRF	wtdvol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.58	NO	0.8583	1.000	26.54	1.000	0.212	88.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0282	1.12
3	1,2,3,4,7,8-HxCDD	5.02e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	69.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	6.14e3	1.30	NO	0.8065	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8839	1.000	36.70	1.000	1.09	87.2	0.0506	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.70	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.323	89.1	0.0142	0.222
9	1,2,3,7,8-PeCDF	1.46e4	1.51	NO	0.8925	1.000	30.20	1.000	1.09	67.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8052	1.000	34.11	1.001	1.12	89.2	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HxCDF	5.26e3	0.99	NO	1.0128	1.000	39.32	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e8	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8450	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



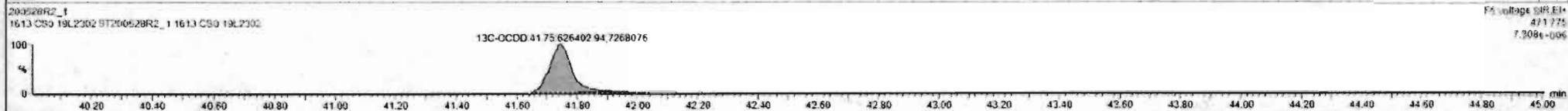
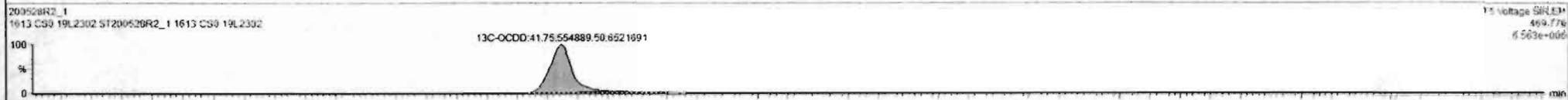
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Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



#	Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8863	1.000	26.54	1.000	0.212	85.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	34.06	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9138	1.000	41.78	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.03
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8552	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	28.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	8.95e5	1.27	NO	0.7750	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



Custom Reporting: Select reports to generate

200528R2_1

CAP NUM

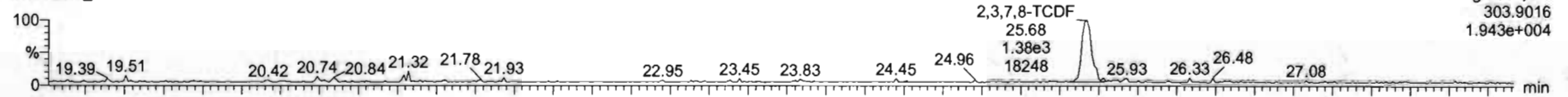
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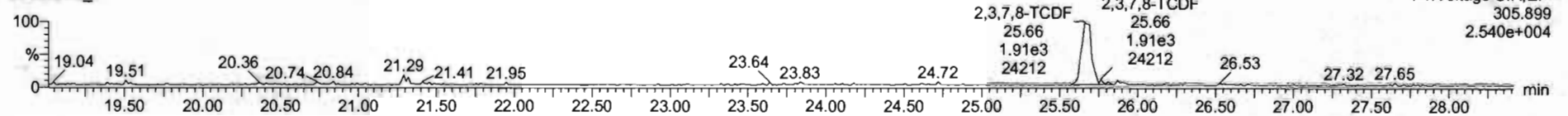
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2,3,7,8-TCDF

200528R2_1

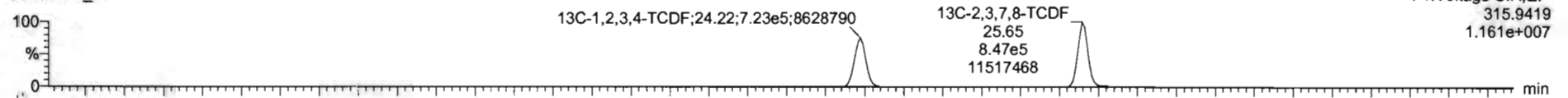


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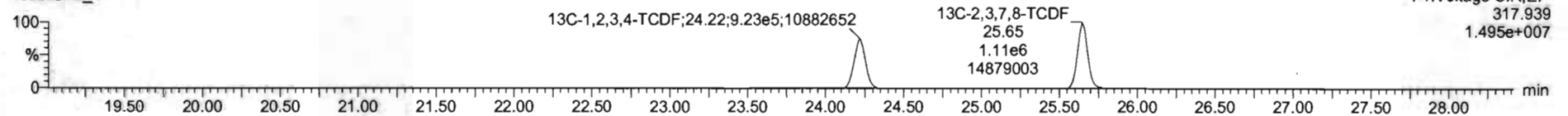


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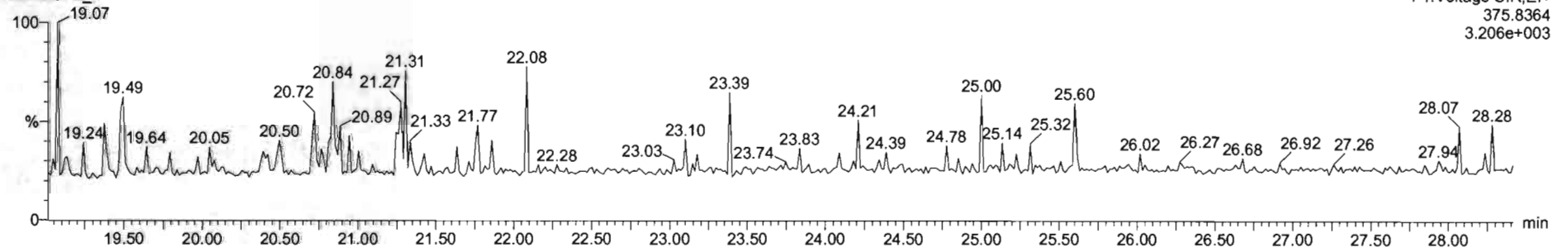


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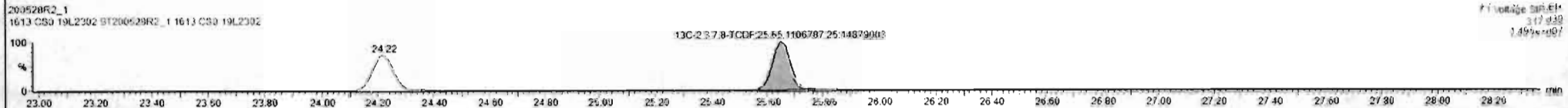
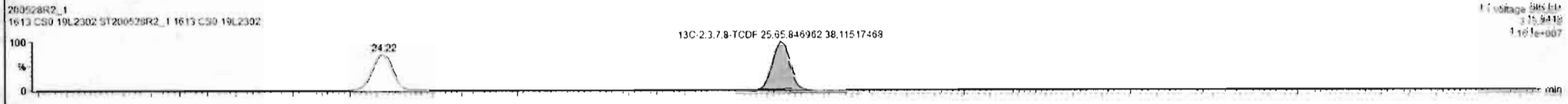
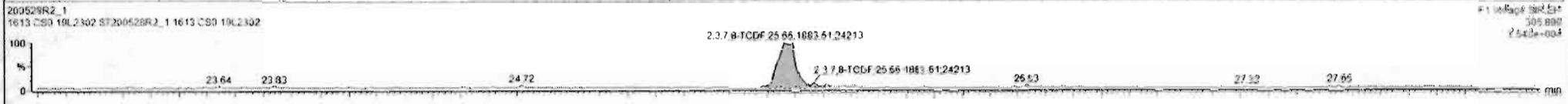
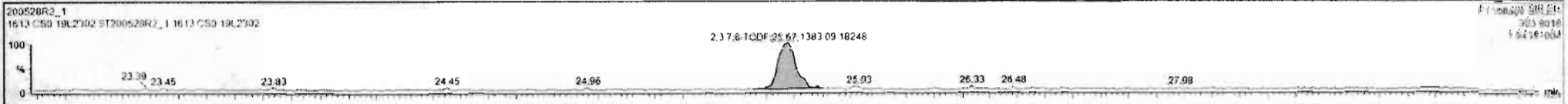


DPE1

200528R2_1



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8883	1.000	26.54	1.000	0.212	95.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	21.50	1.000	1.12	90.6	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e2	1.27	NO	1.0334	1.000	34.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.13	89.7	0.0465	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0140	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	20.20	1.006	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.95e3	1.25	NO	0.8845	1.000	33.99	1.001	1.00	86.2	0.0369	1.00
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8862	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0624	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.33	1.001	1.02	61.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.23	92.4	0.0409	2.23
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1583	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	168	168	0.243	



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200528R2_1 CAP NUM

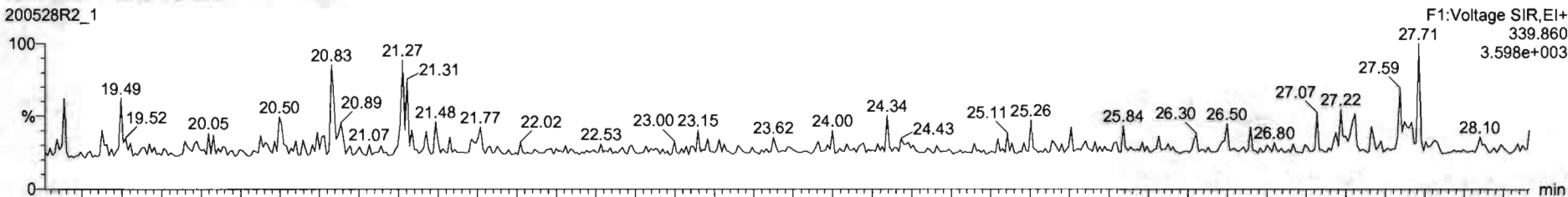
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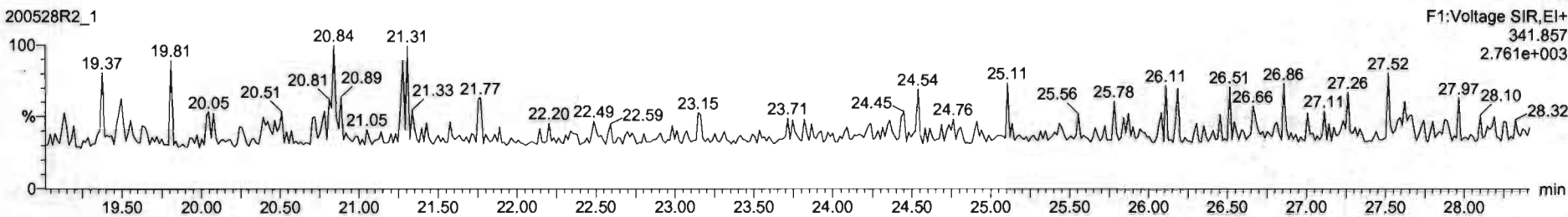
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1st Func. Penta-Furans

200528R2_1

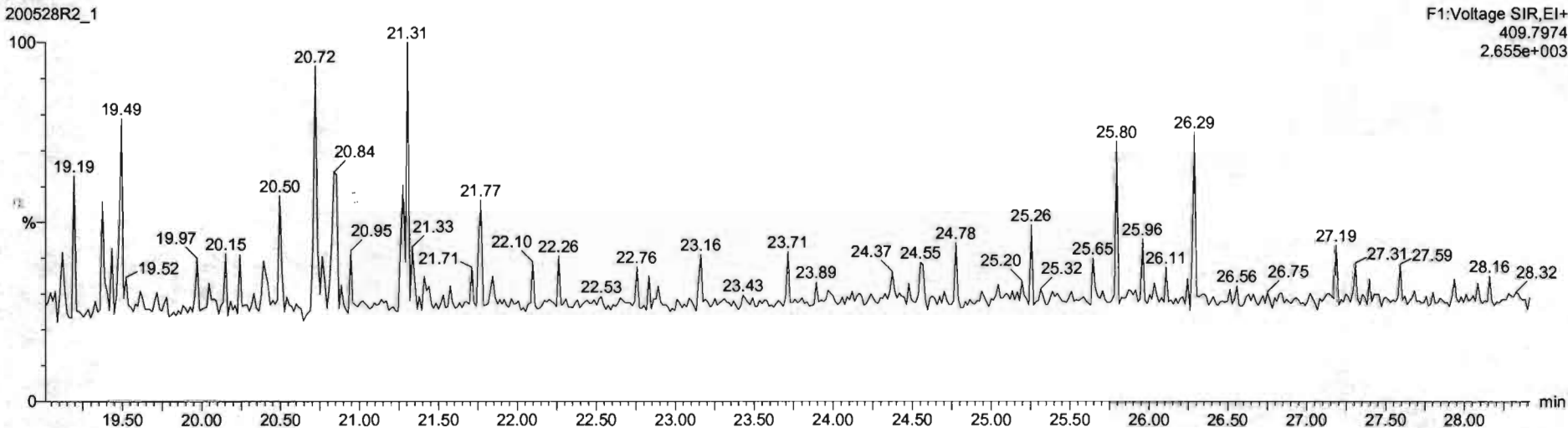


200528R2_1



DPE6

200528R2_1



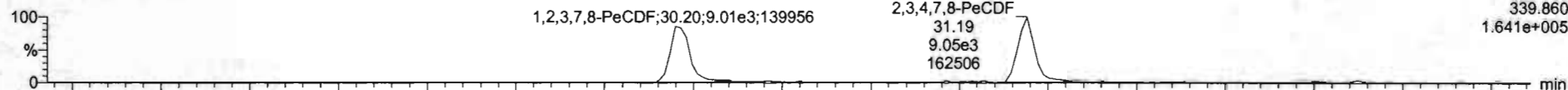
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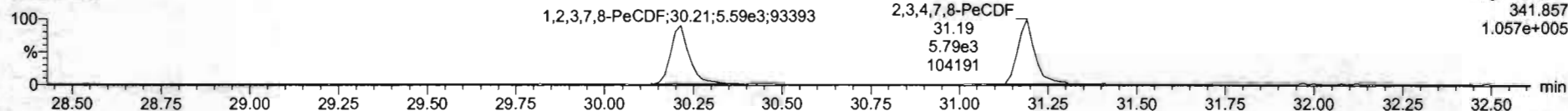
1,2,3,7,8-PeCDF

200528R2_1



F2:Voltage SIR,EI+
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1.641e+005

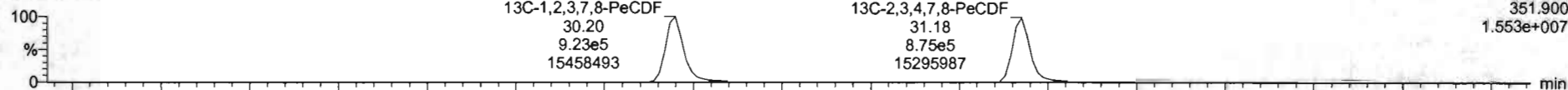
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F2:Voltage SIR,EI+
341.857
1.057e+005

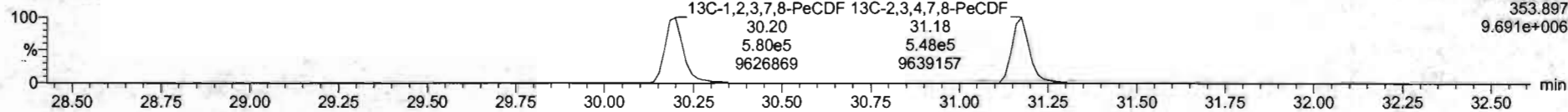
13C-1,2,3,7,8-PeCDF

200528R2_1



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1.553e+007

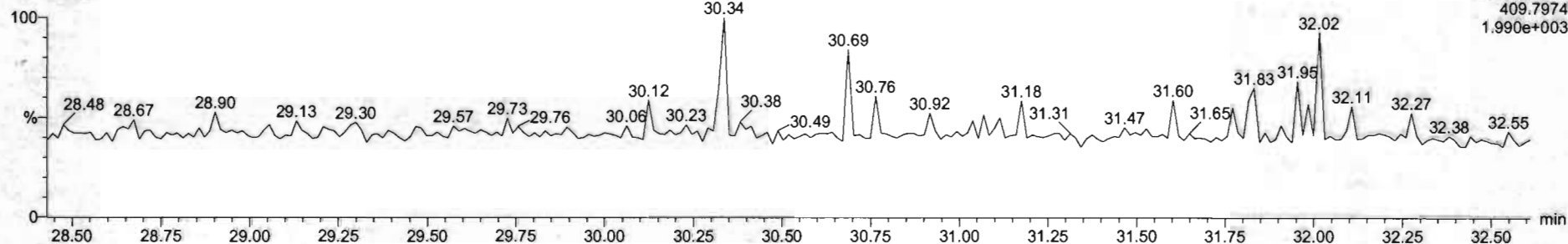
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F2:Voltage SIR,EI+
353.897
9.691e+006

DPE2

200528R2_1



F2:Voltage SIR,EI+
409.7974
1.990e+003

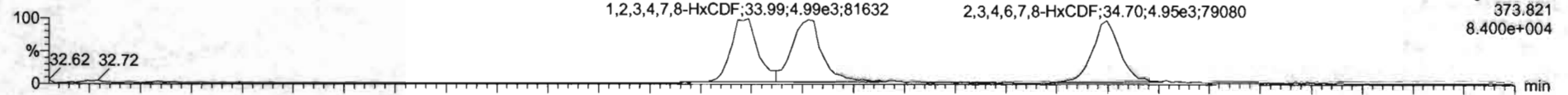
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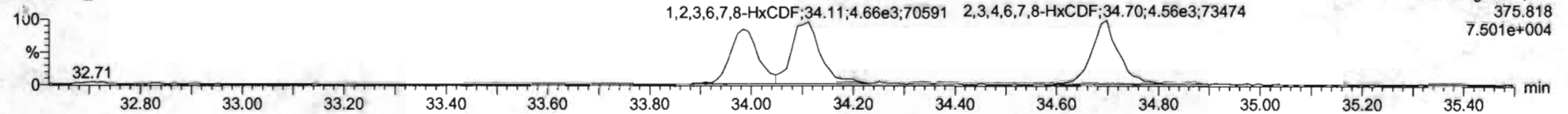
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1,2,3,4,7,8-HxCDF

200528R2_1

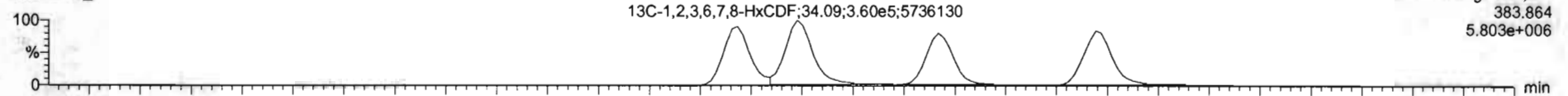


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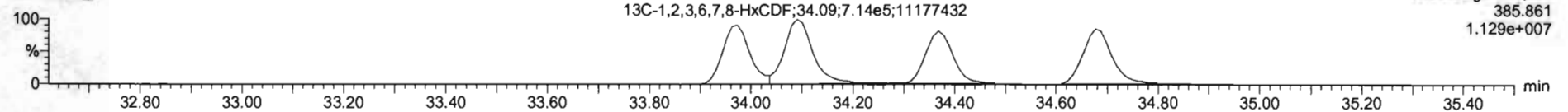


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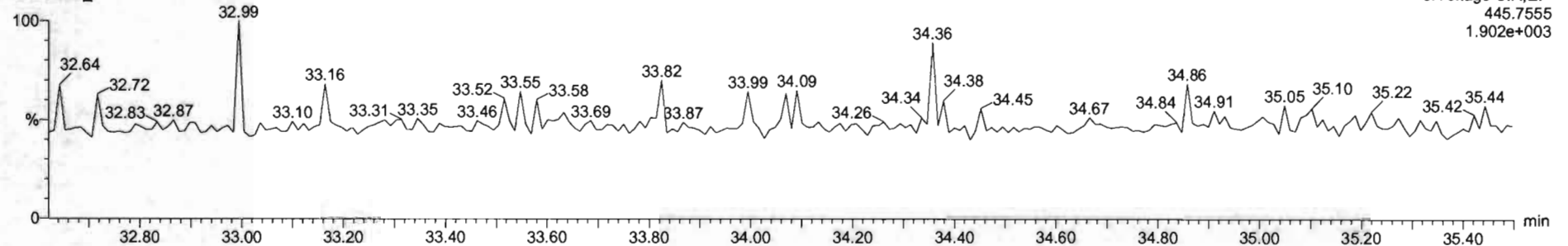


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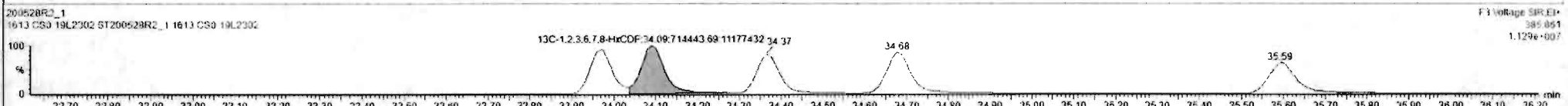
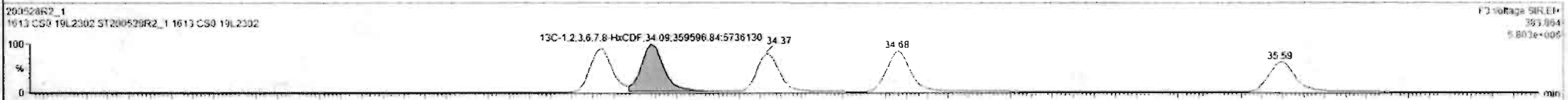
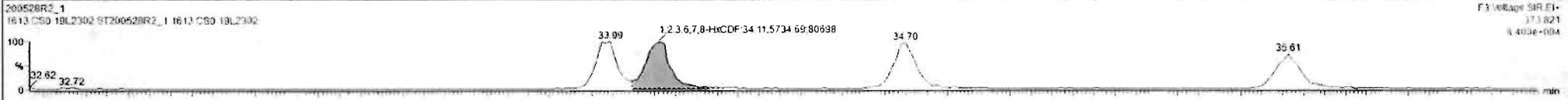


DPE3

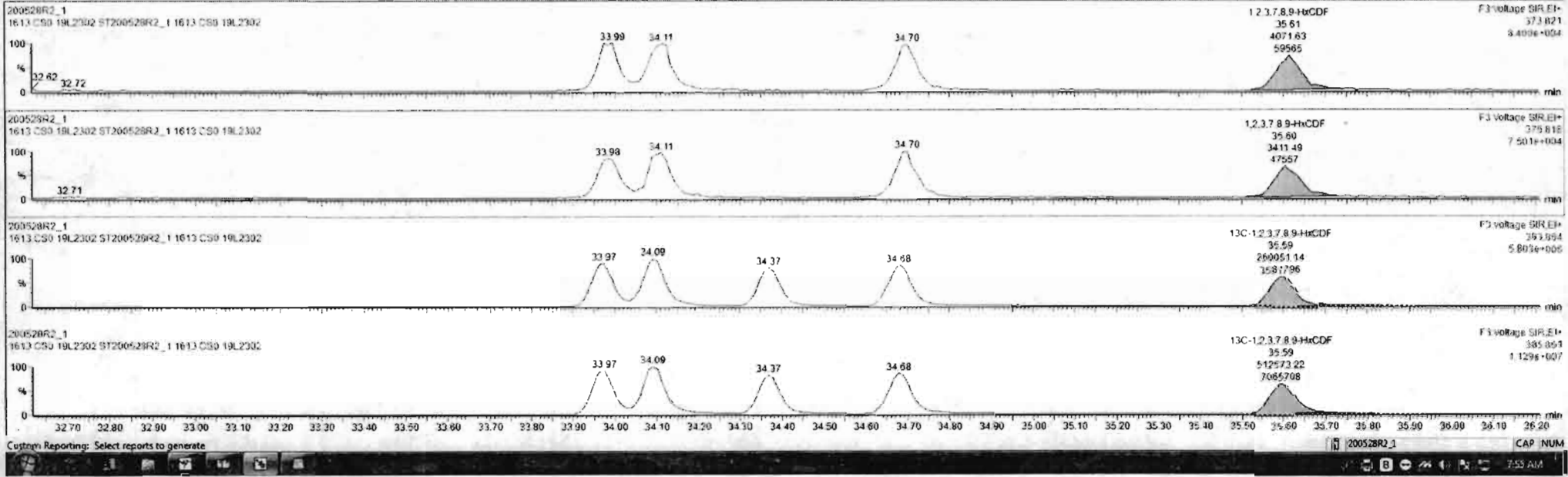
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Name	Resp	RA	inj	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.58	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6051	1.000	31.50	1.000	1.12	90.0	0.0292	1.12
3 1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0324	1.000	24.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	5.14e3	1.20	NO	0.8265	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	38.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	26.67	1.001	0.223	89.1	0.0147	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.81	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0709	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.56e3	1.25	NO	0.8845	1.000	33.99	1.001	1.05	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8082	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.62	81.8	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.009	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e6	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21 13C-1,2,3,6,7,8-HxCDD	9.27e6	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.76e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	95.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.55	1.000	1.12	96.0	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	24.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	24.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8265	1.000	25.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.16e3	0.99	NO	0.8630	1.000	26.72	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.225	89.1	0.0142	0.225
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8325	1.000	20.20	1.000	1.09	87.1	0.0265	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8545	1.000	23.95	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8252	1.000	24.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	24.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	25.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	27.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	20.33	1.001	1.02	81.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0832	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	24.95	1.017	108	108	0.243	



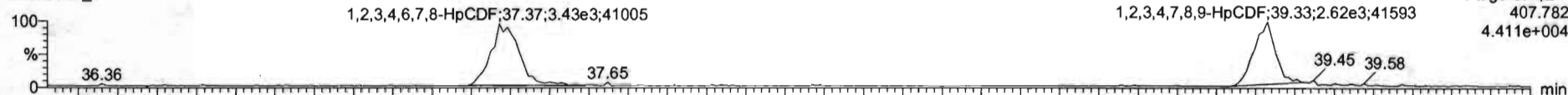
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

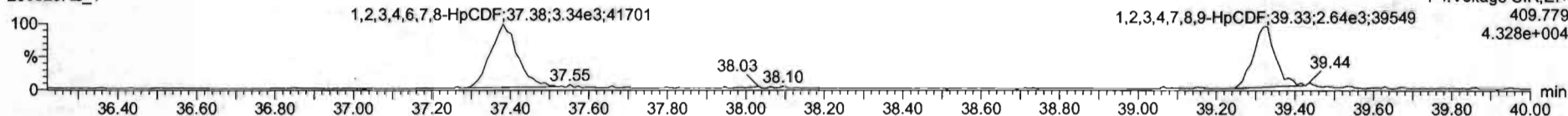
1,2,3,4,6,7,8-HpCDF

200528R2_1



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407.782
4.411e+004

200528R2_1



F4: Voltage SIR, EI+
409.779
4.328e+004

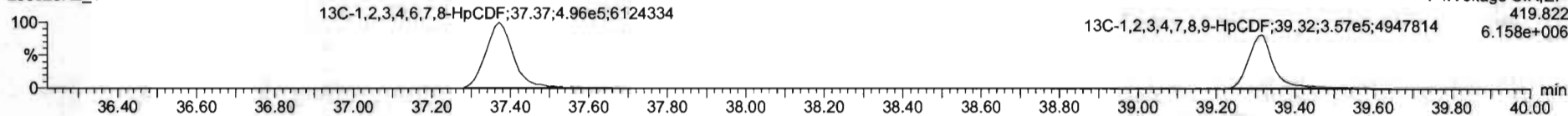
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200528R2_1



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2.595e+006

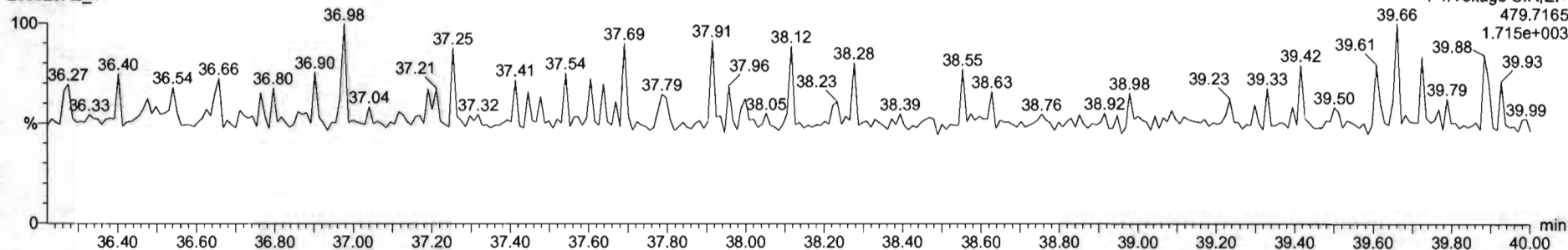
200528R2_1



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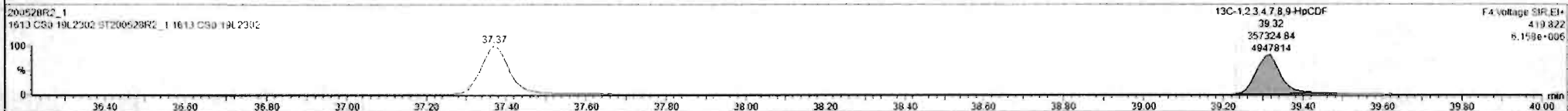
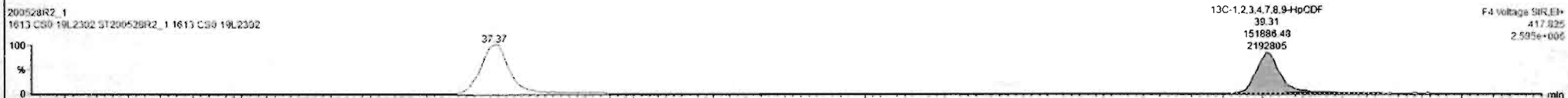
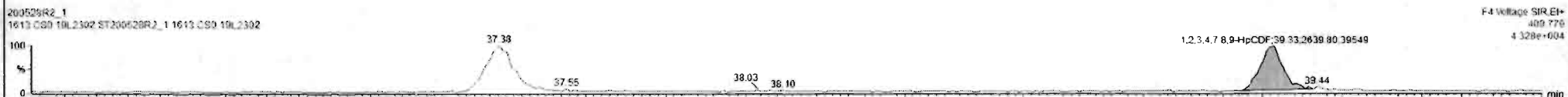
CPE4

200528R2_1



F4: Voltage SIR, EI+
479.7165
1.715e+003

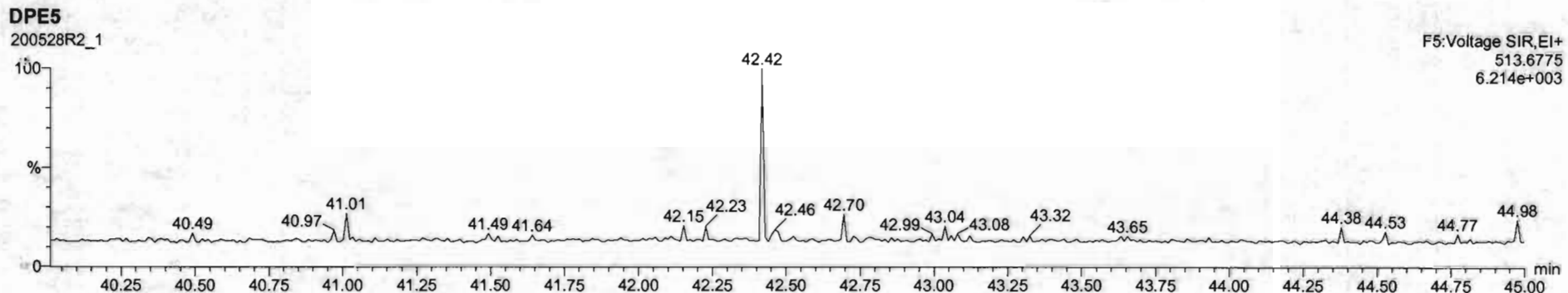
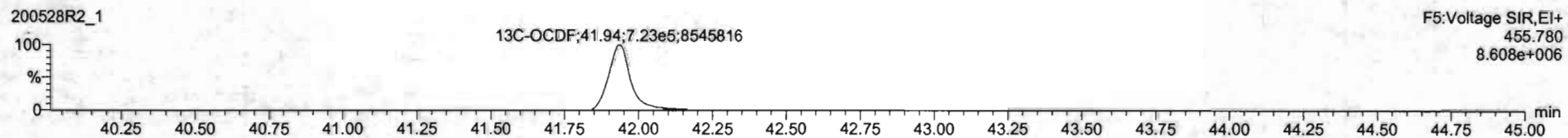
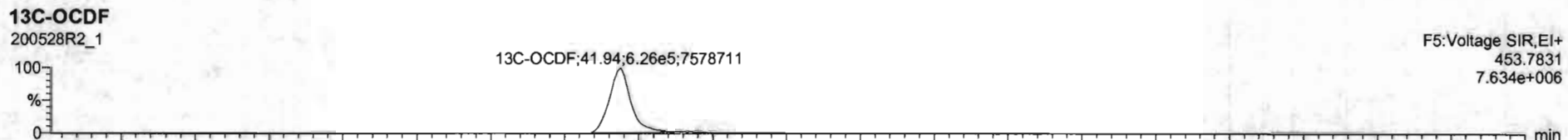
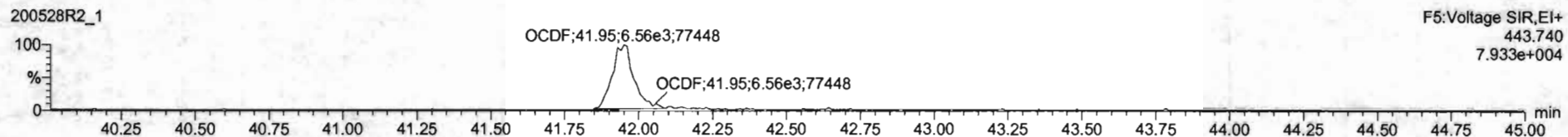
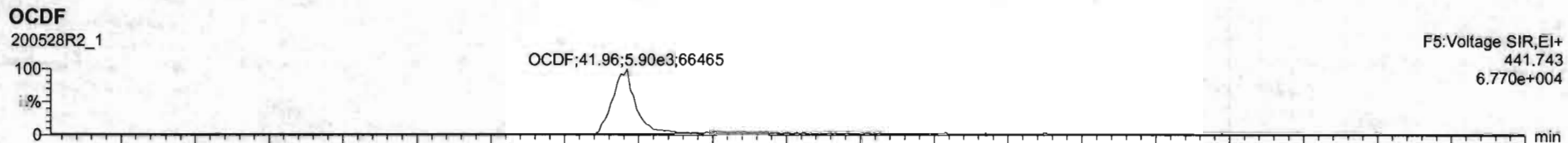
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1 2,3,7,8-TCDD	2.79e3	0.68	NO	0.8983	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	8.02e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDF	8.14e3	1.20	NO	0.8869	1.000	35.25	1.000	1.10	88.1	0.0404	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.9639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.6	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8852	1.000	34.11	1.001	1.12	89.0	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8797	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	88.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.35	1.001	1.02	81.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	92.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.218	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



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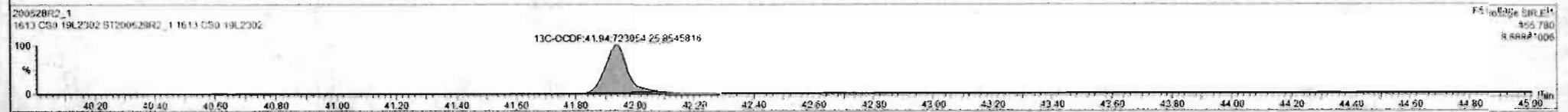
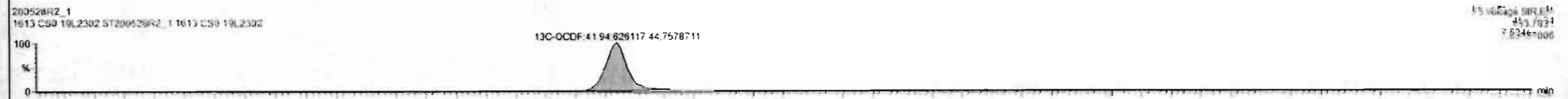
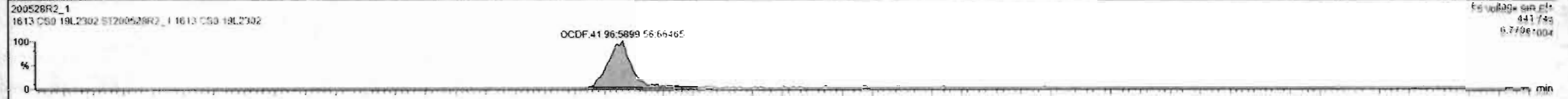
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Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



200528R2_1 1613 CSD 19L2302-1 1613 CSD 19L2302

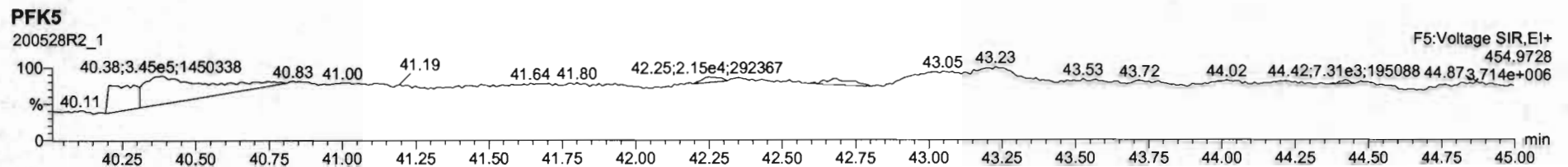
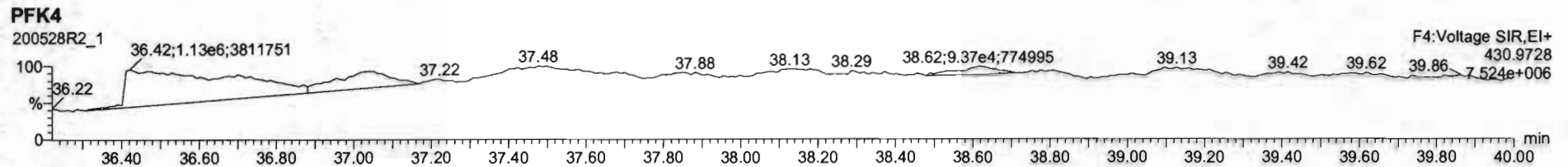
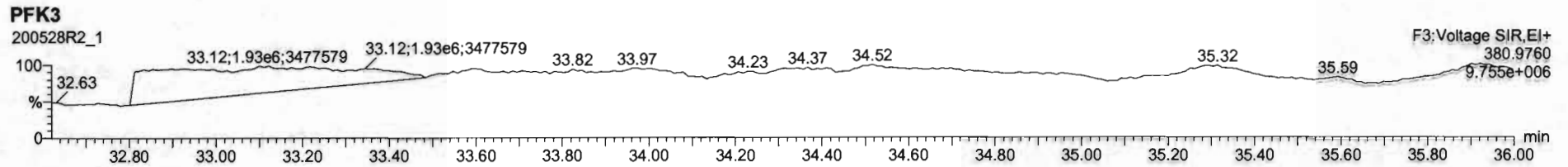
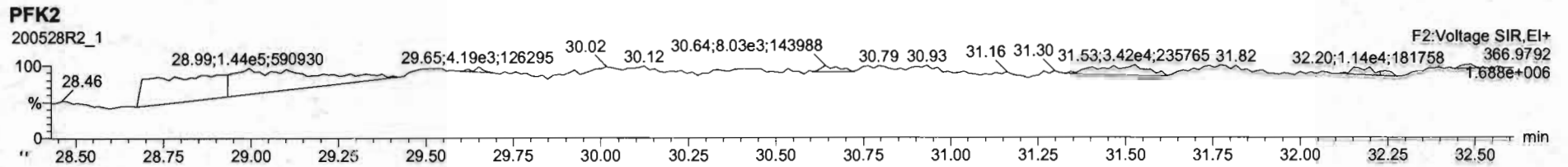
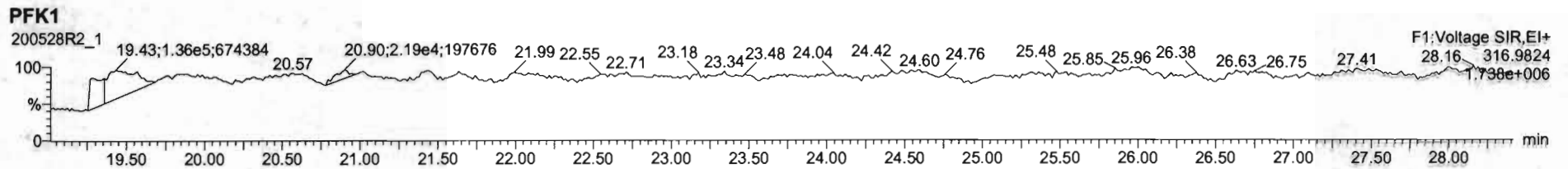
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2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9041	1.000	31.60	1.000	1.12	90.0	0.0202	1.12
3	1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	89.4	0.042E	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.9523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.9205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.056E	1.09
7	OCDD	1.23e4	0.88	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.75	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8892	1.000	24.11	1.001	1.12	89.7	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.95	NO	1.0126	1.000	39.33	1.001	1.02	81.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8685	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.218	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



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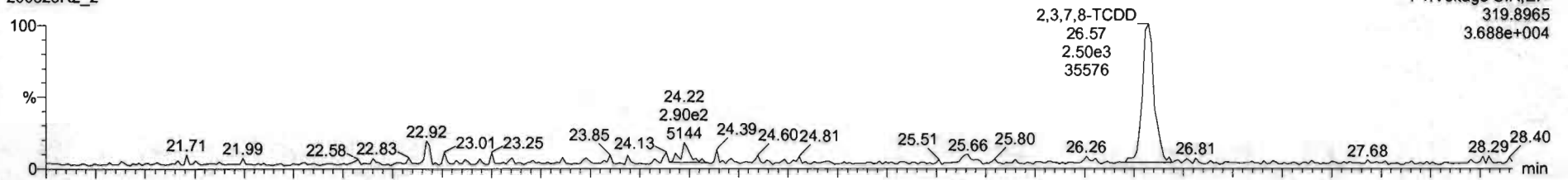
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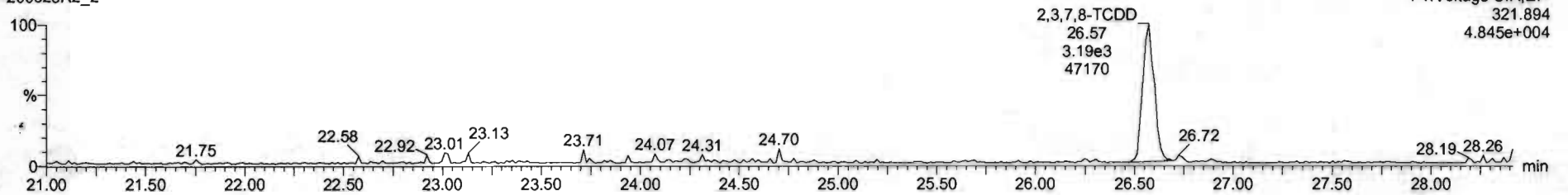
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2,3,7,8-TCDD

200528R2_2

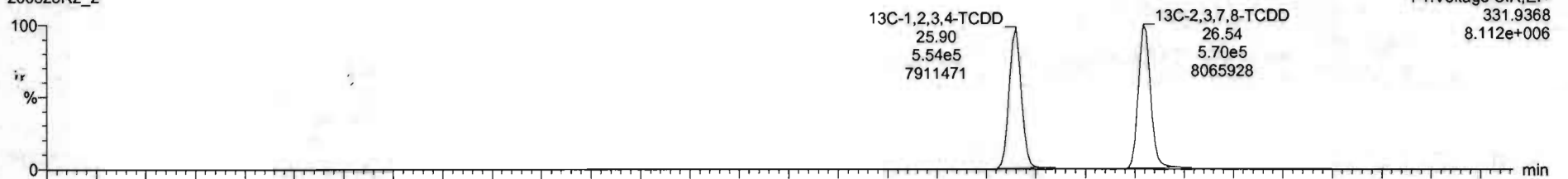


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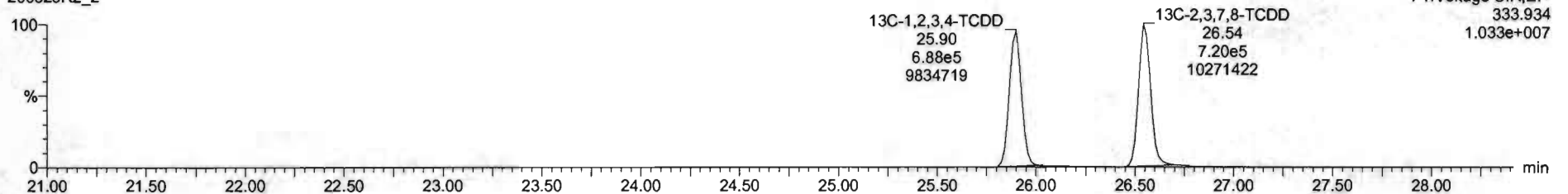


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200528R2_2



200528R2_2



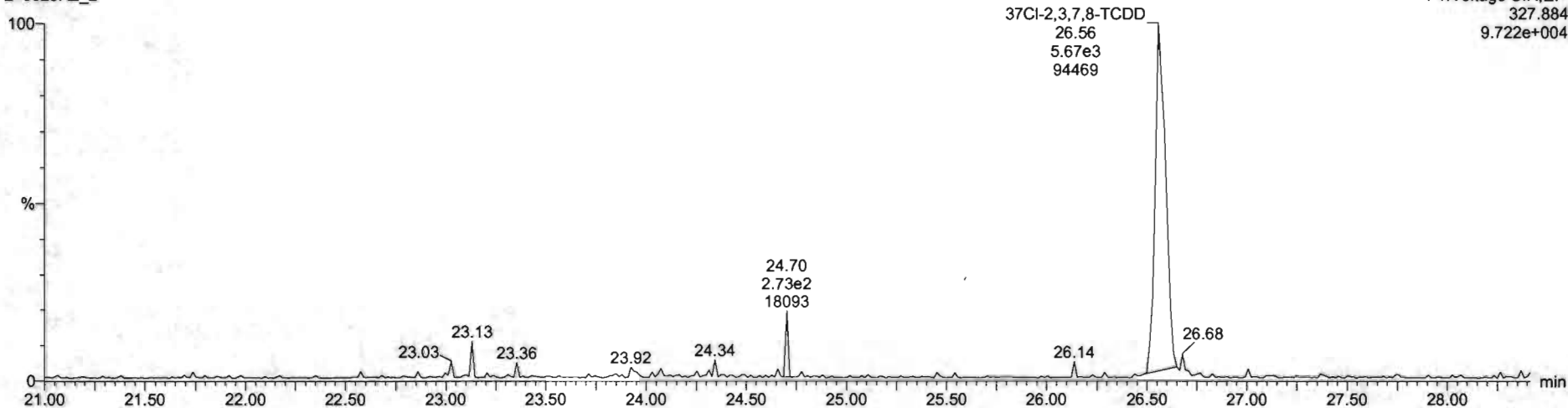
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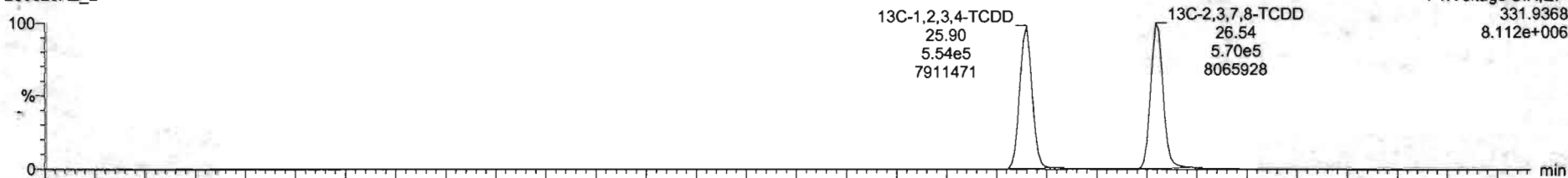
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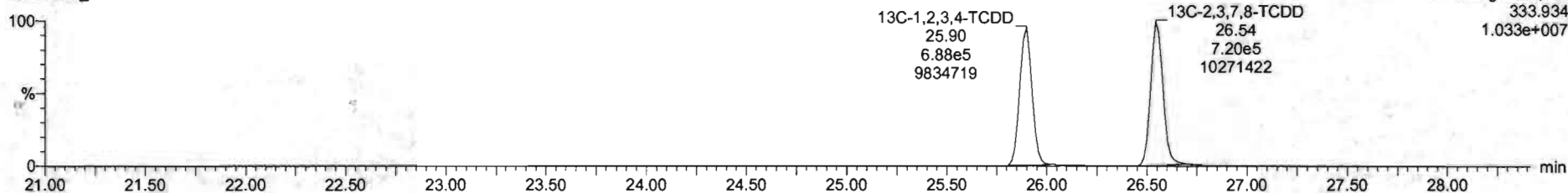


13C-1,2,3,4-TCDD

200528R2_2



200528R2_2



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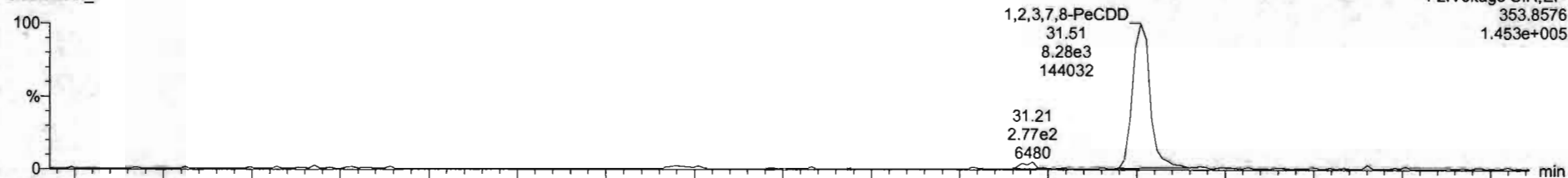
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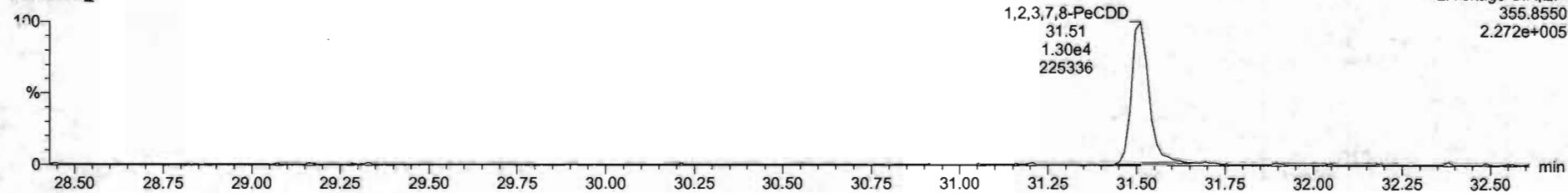
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1,2,3,7,8-PeCDD

200528R2_2

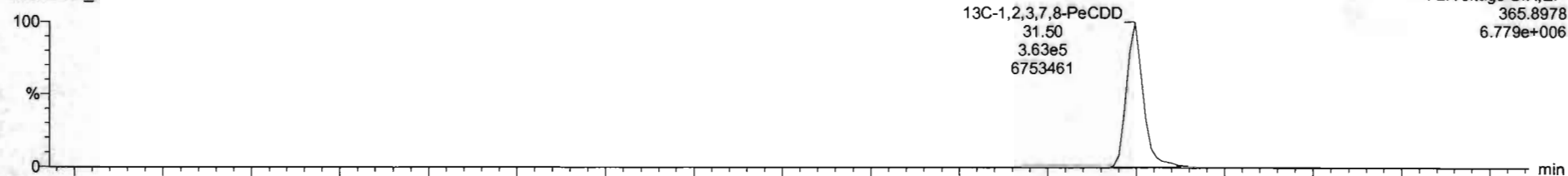


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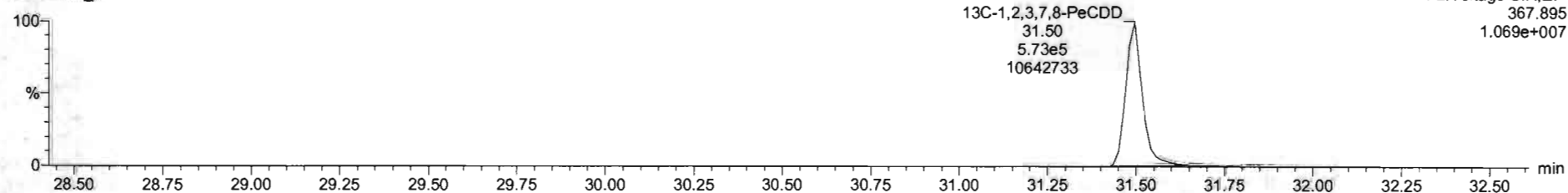


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200528R2_2



200528R2_2



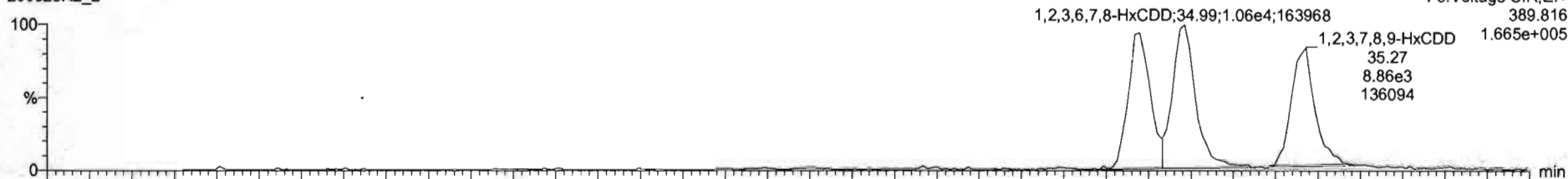
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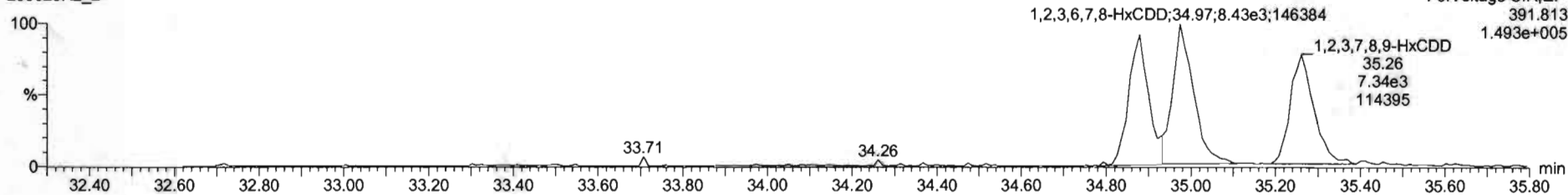
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1,2,3,4,7,8-HxCDD

200528R2_2

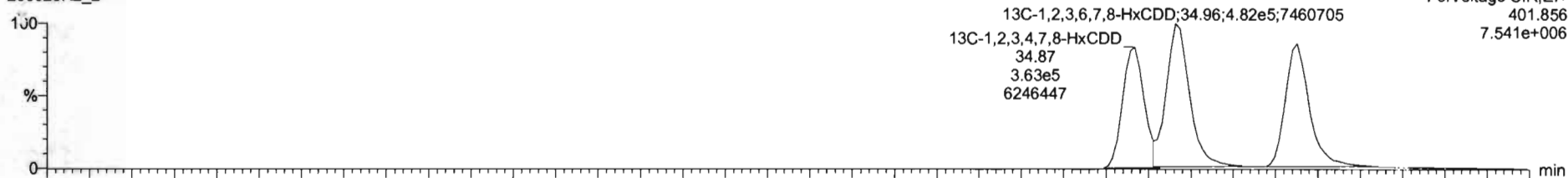


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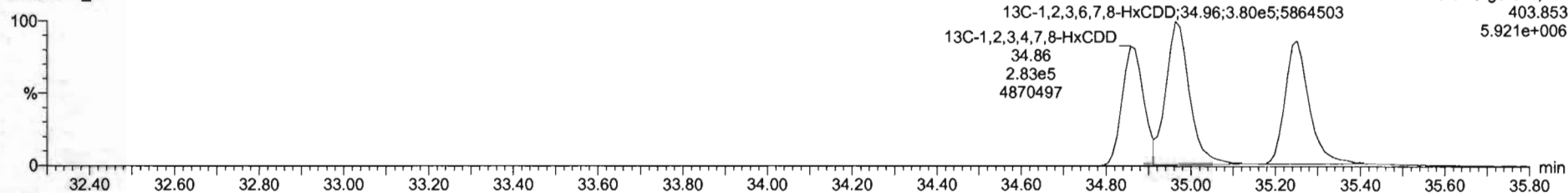


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200528R2_2



200528R2_2



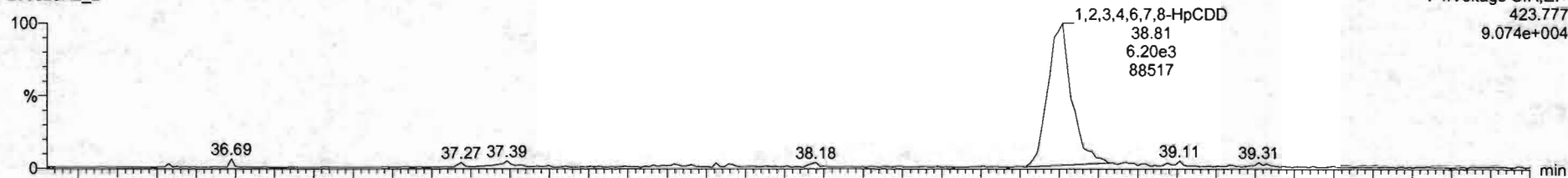
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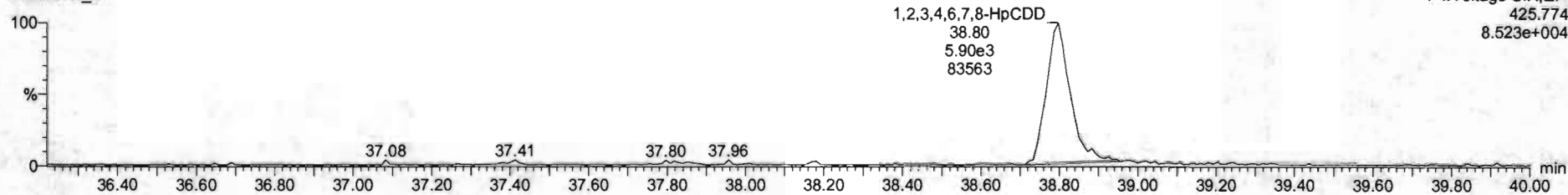
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1,2,3,4,6,7,8-HpCDD

200528R2_2

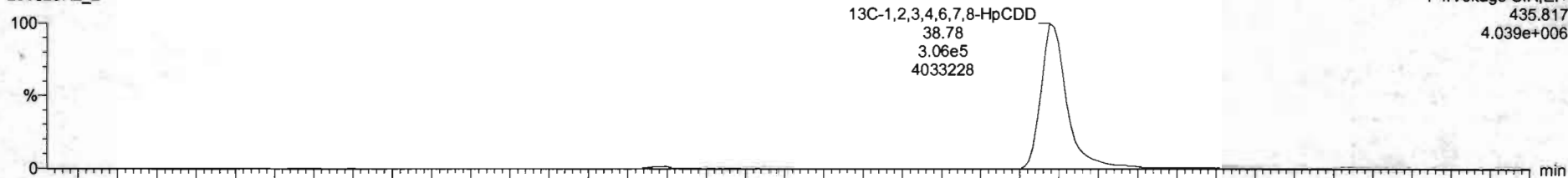


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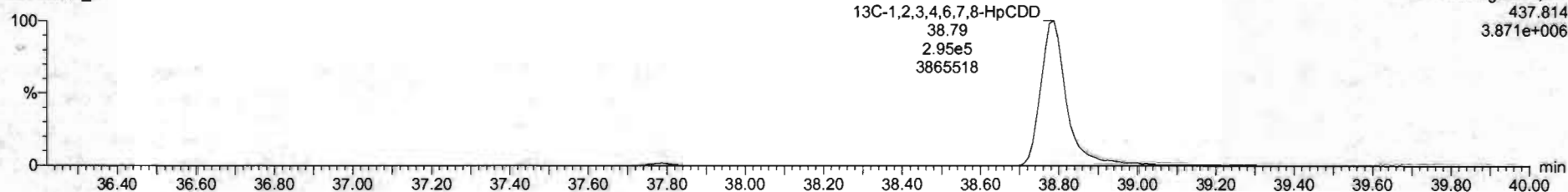


13C-1,2,3,4,6,7,8-HpCDD

200528R2_2



200528R2_2

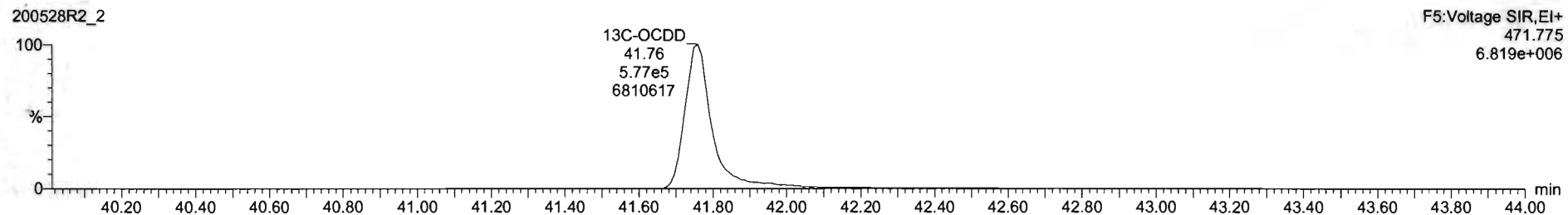
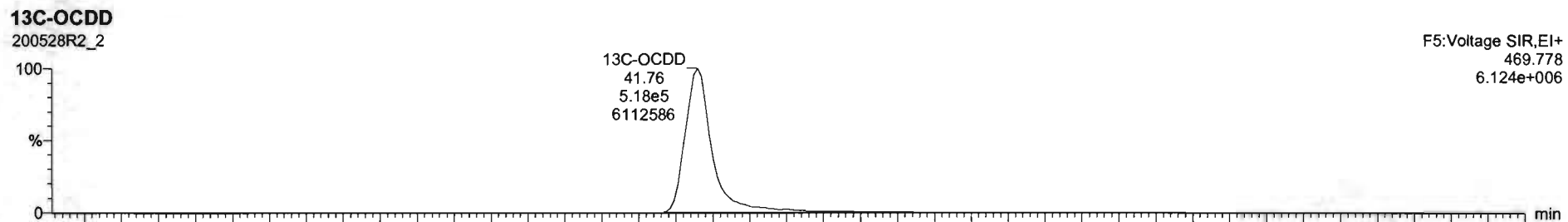
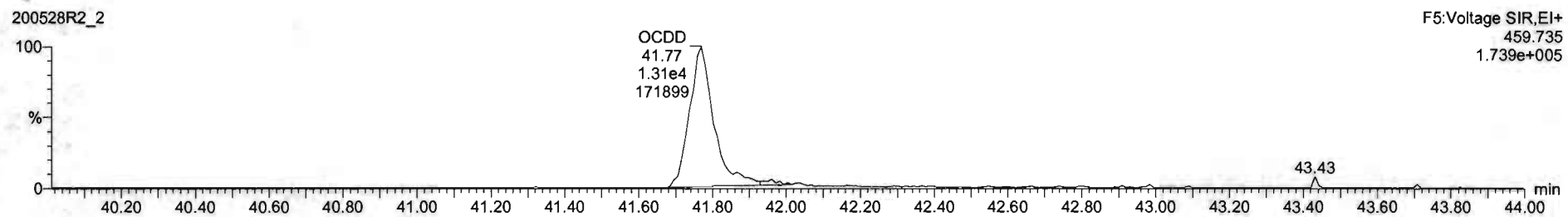
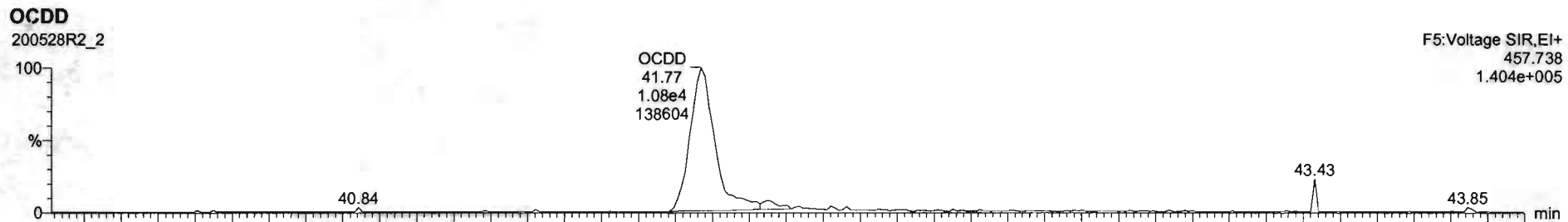


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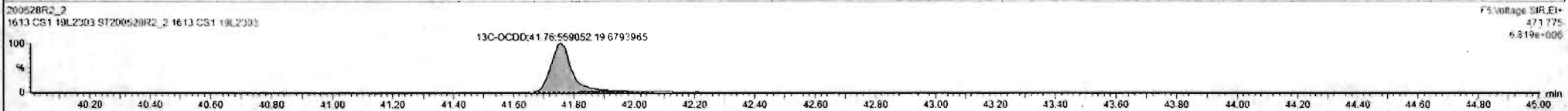
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Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



Name	Resp	RA	nJY	RRF	wIvol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0324	1.000	34.86	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.50e4	1.25	NO	0.8923	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8865	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.61	1.001	2.33	93.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	98.4	0.149	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.483	97.7	0.0670	0.483
9 1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9241	1.000	34.71	1.001	2.38	96.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.32	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8065	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1563	1.000	26.54	1.025	89.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.83	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7790	1.000	34.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.81e5	1.27	NO	1.0187	1.000	34.95	1.017	87.7	87.7	0.140	



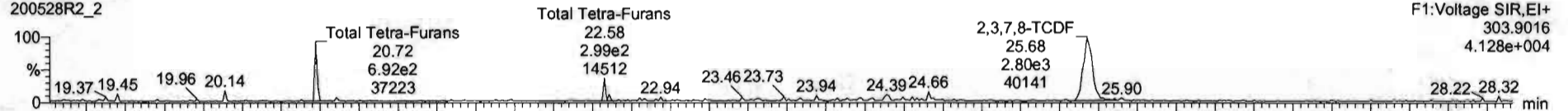
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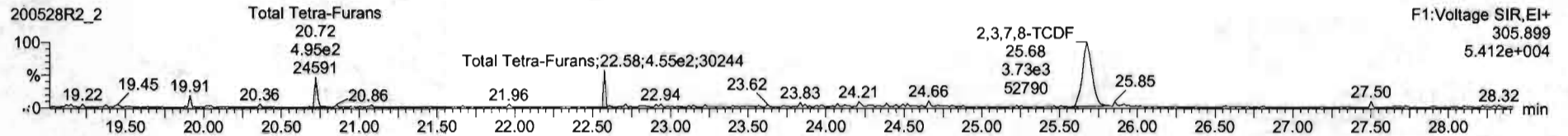
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2,3,7,8-TCDF

200528R2_2

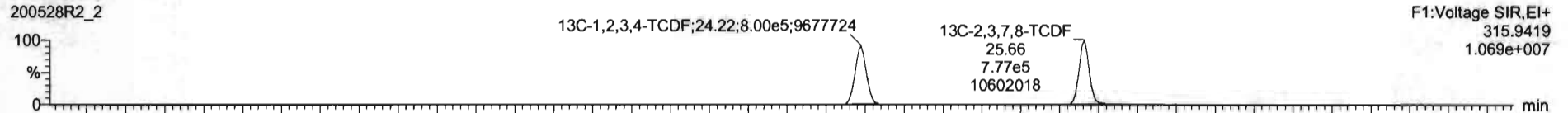


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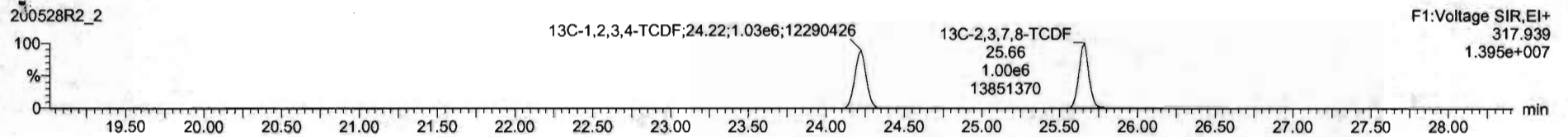


13C-2,3,7,8-TCDF

200528R2_2

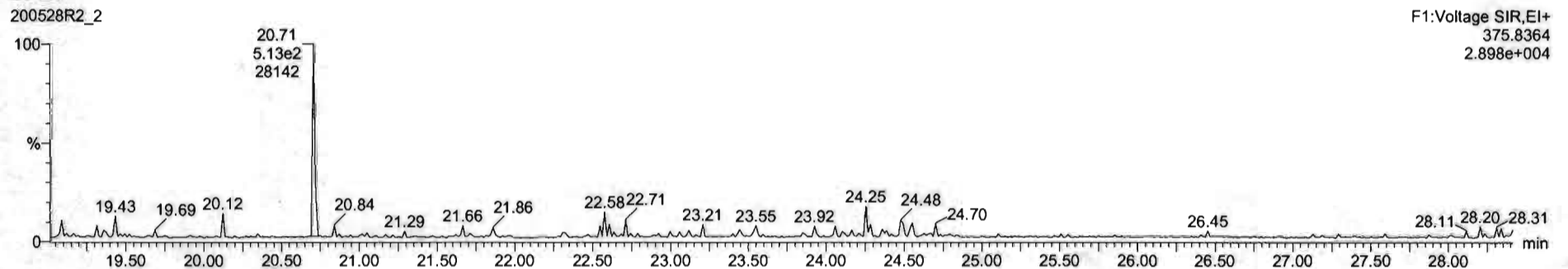


200528R2_2



DPE1

200528R2_2



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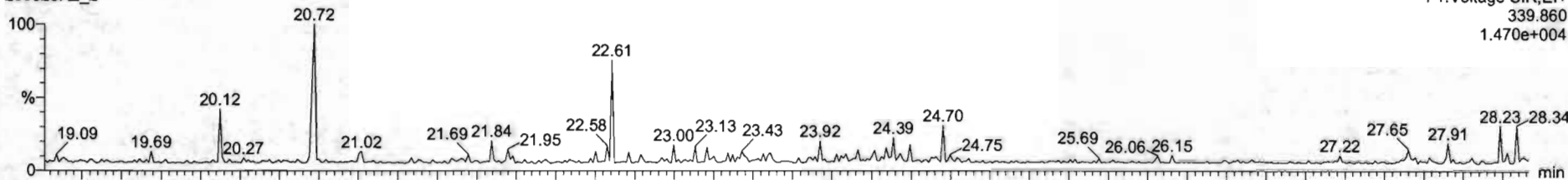
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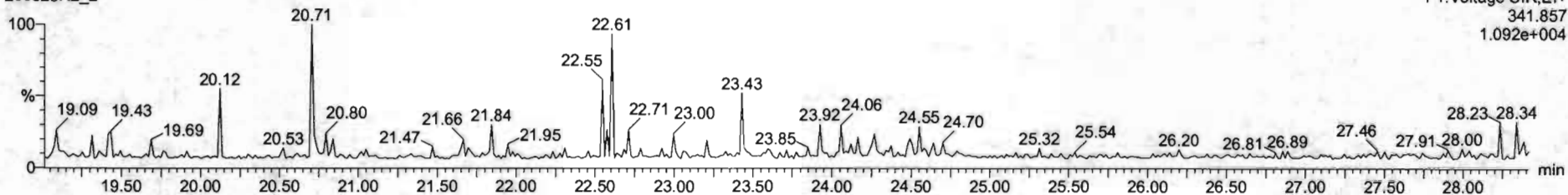
200528R2_2

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1.470e+004



200528R2_2

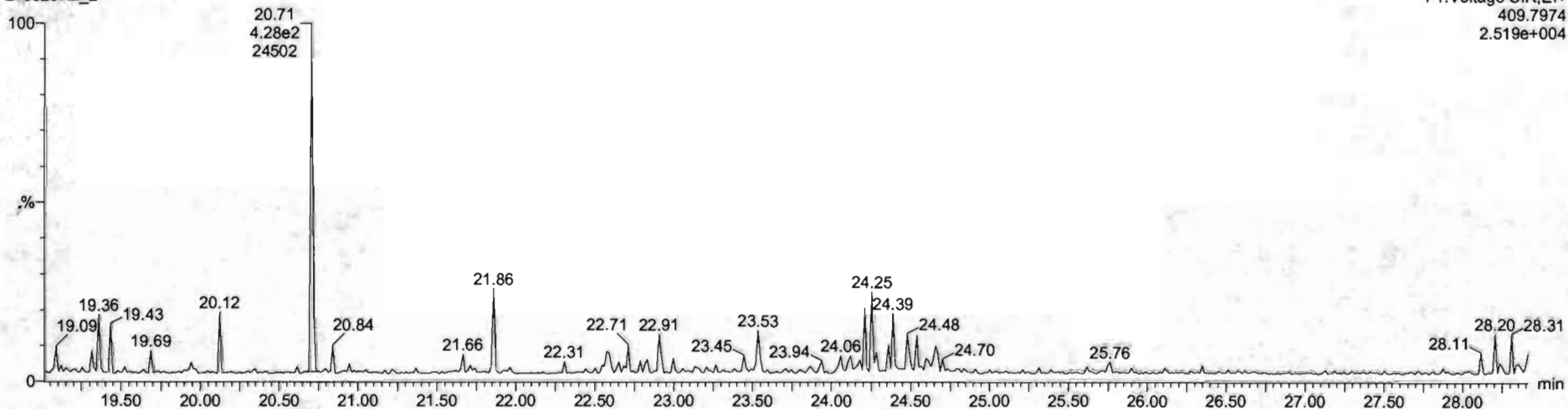
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1.092e+004



DPE6

200528R2_2

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2.519e+004



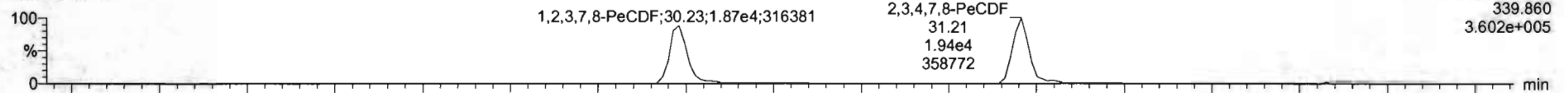
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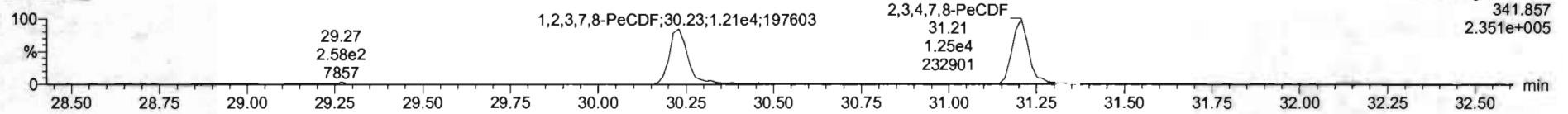
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1,2,3,7,8-PeCDF

200528R2_2

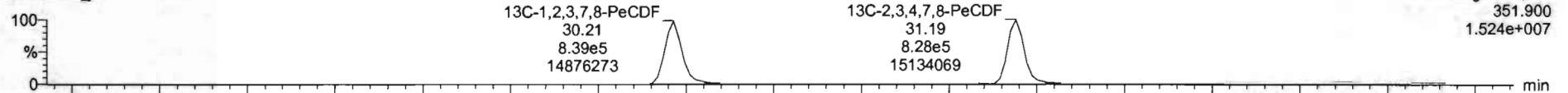


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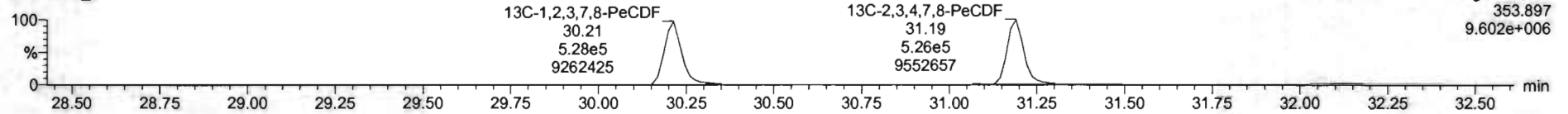


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200528R2_2

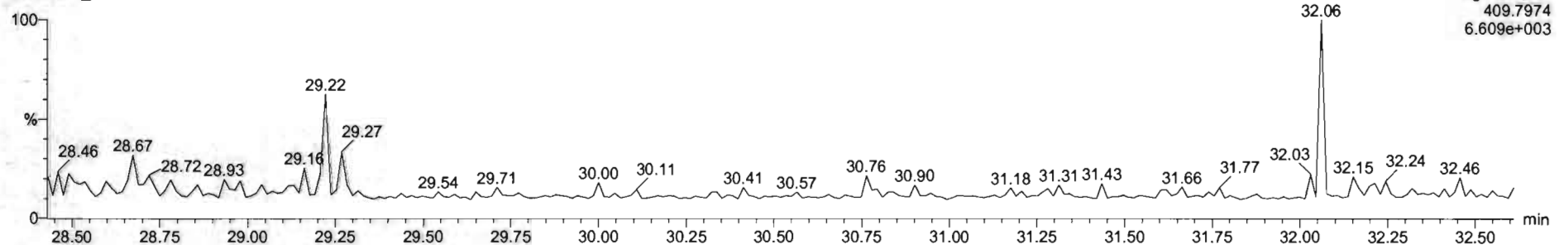


200528R2_2



DPE2

200528R2_2



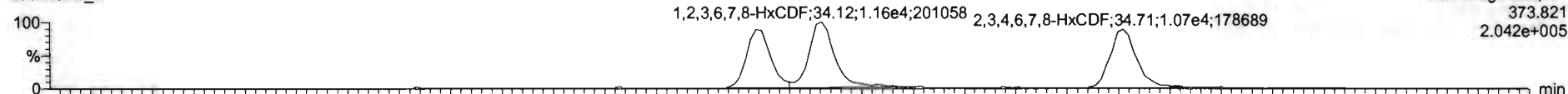
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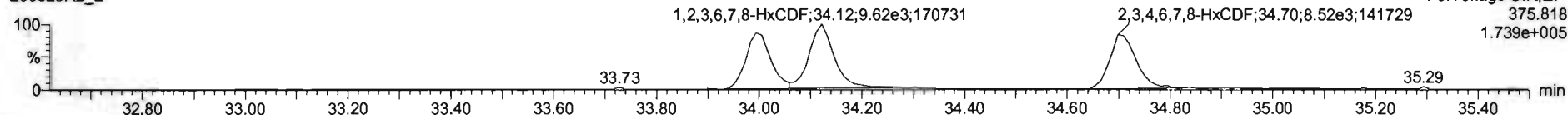
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1,2,3,4,7,8-HxCDF

200528R2_2

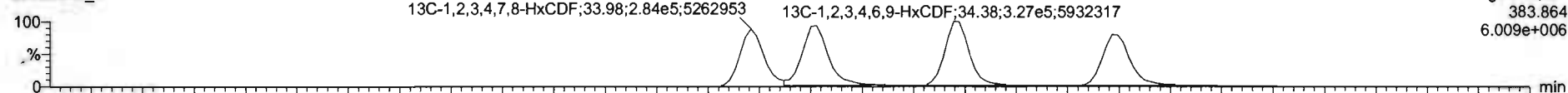


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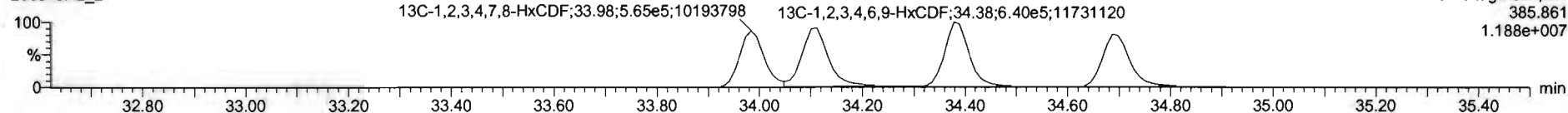


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200528R2_2

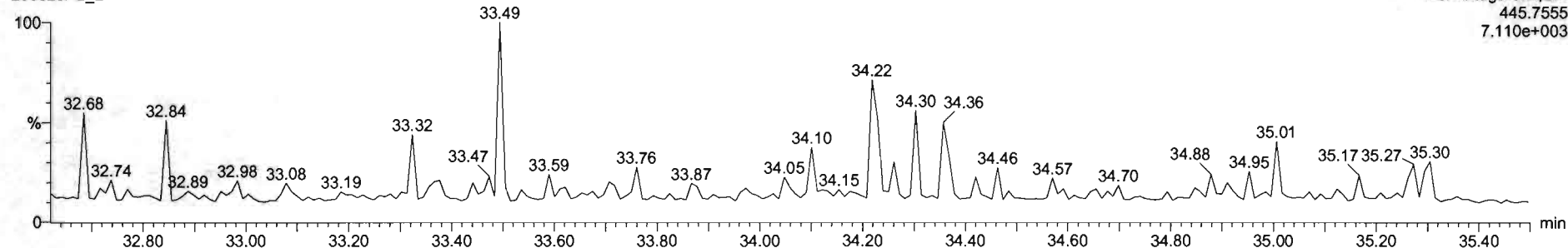


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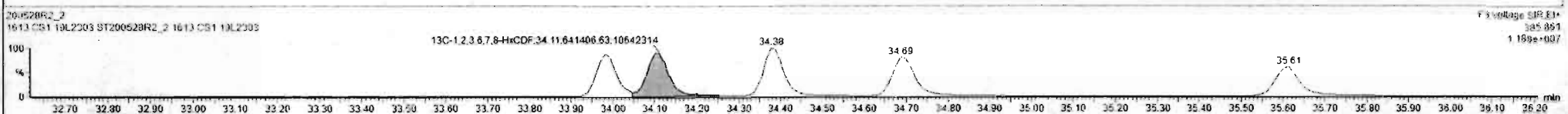
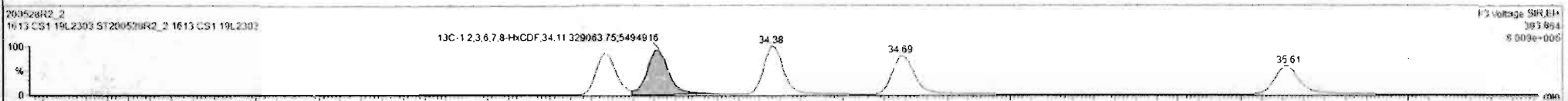


DPE3

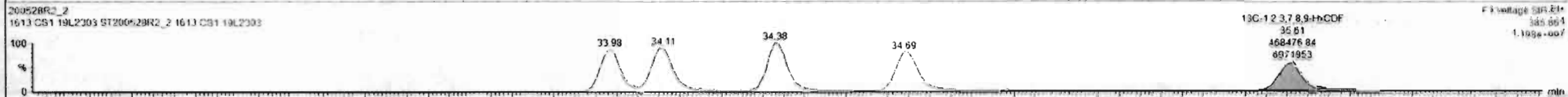
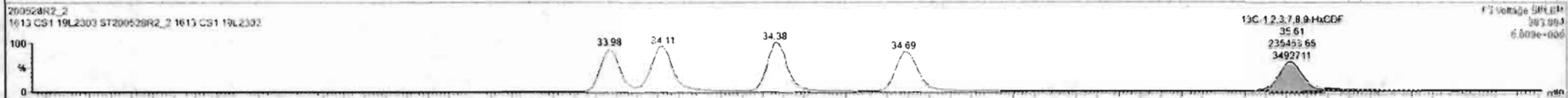
200528R2_2



#	Name	Resp	RA	nby	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.69e3	0.76	NO	0.8963	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9051	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0334	1.000	34.86	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8973	1.000	34.99	1.001	2.47	98.5	0.0747	3.47
5	1,2,3,7,9-HxCDD	1.62e4	1.21	NO	0.8969	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8939	1.000	36.51	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9126	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9340	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	3.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.6552	1.000	34.12	1.000	2.50	100	0.0542	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.38	95.3	0.0702	2.38
14	1,2,3,7,8,9-HxCDF	1.46e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	1,2,3,7,8-TCDF	1.79e6	0.79	NO	1.1563	1.000	26.54	1.025	89.8	89.8	0.0928	
19	1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	68.7	68.7	0.113	
20	1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.99e3	0.76	NO	0.8843	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9051	1.000	31.51	1.000	2.50	99.3	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.05e4	1.27	NO	1.0334	1.000	34.85	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8973	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5	1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8565	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9126	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.05e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	0.15e4	1.55	NO	0.9346	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8882	1.000	34.12	1.000	2.50	100	0.0642	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.36	96.3	0.0702	2.36
14	1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8787	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8565	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1562	1.000	26.54	1.025	89.8	89.8	0.0528	
19	13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20	13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0157	1.000	34.96	1.017	87.7	87.7	0.140	



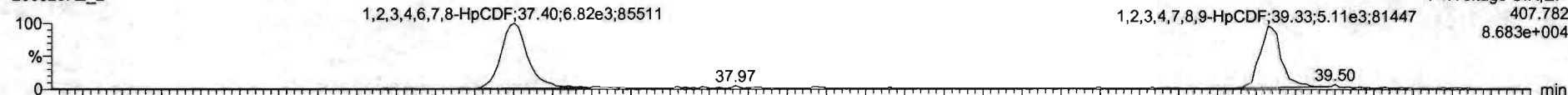
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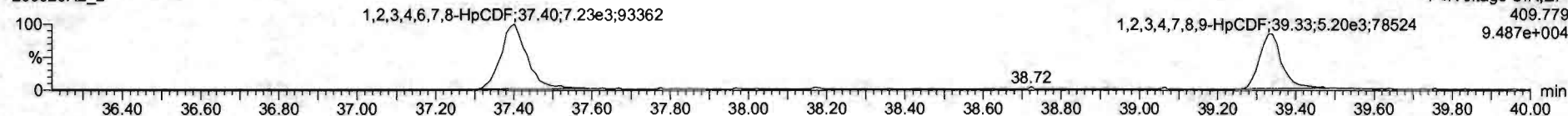
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1,2,3,4,6,7,8-HpCDF

200528R2_2



200528R2_2

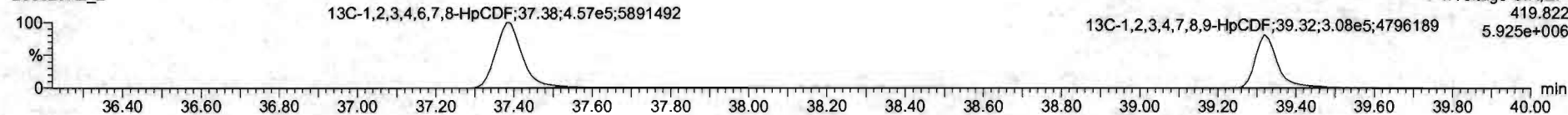


13C-1,2,3,4,6,7,8-HpCDF

200528R2_2

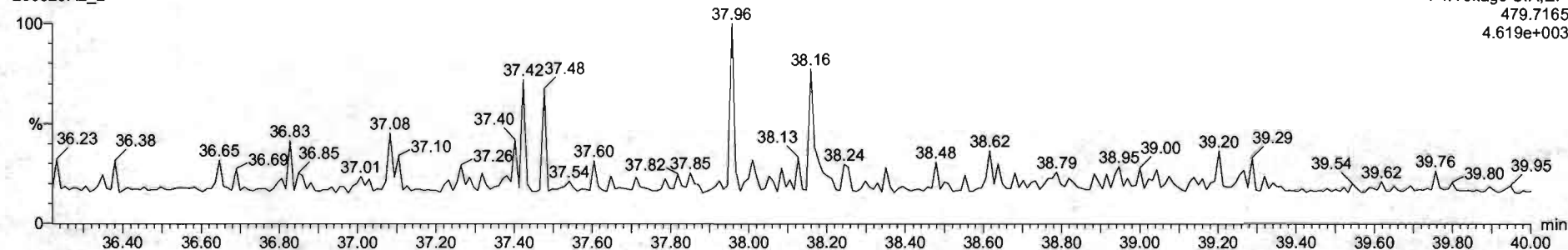


200528R2_2



DPE4

200528R2_2



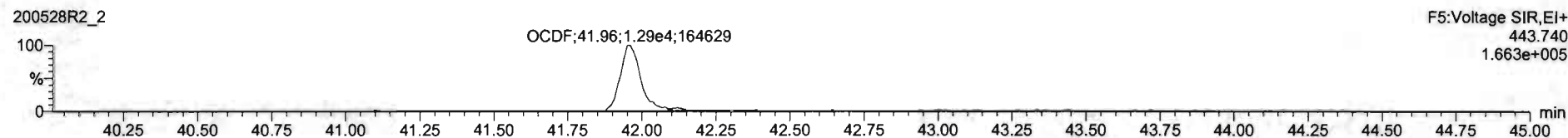
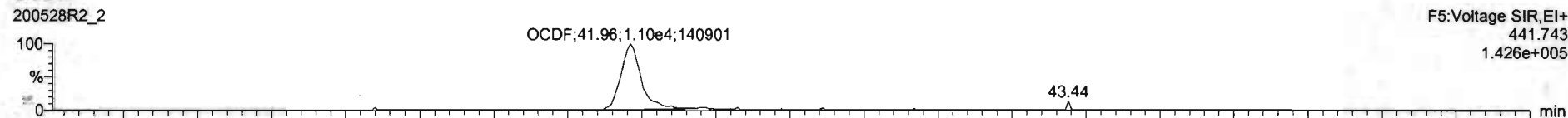
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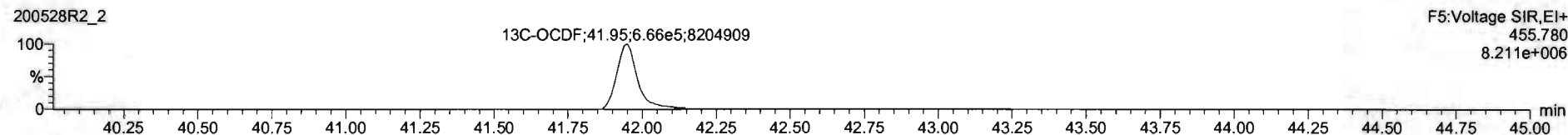
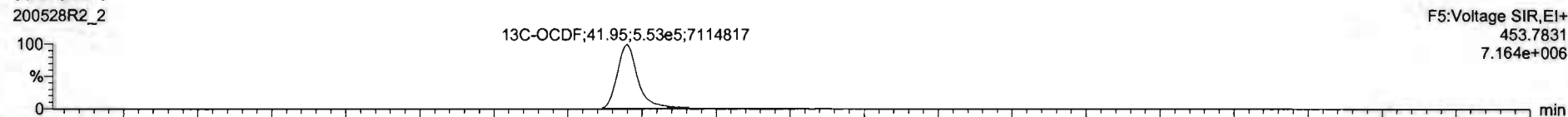
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

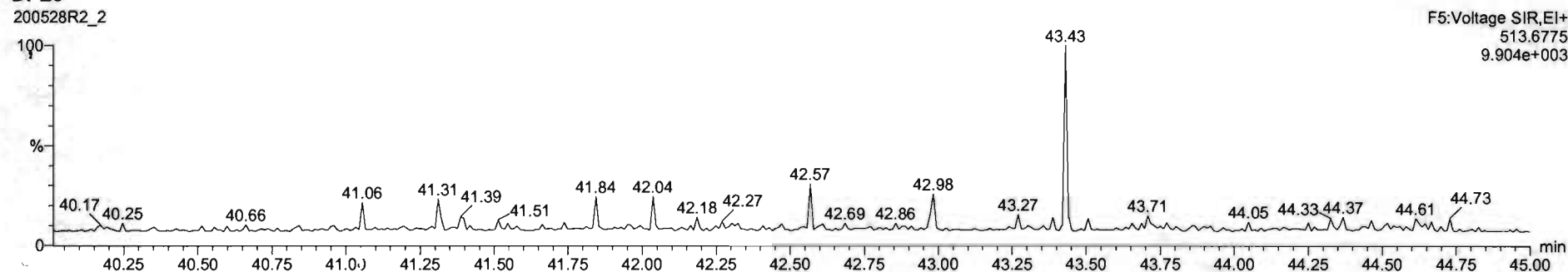
OCDF



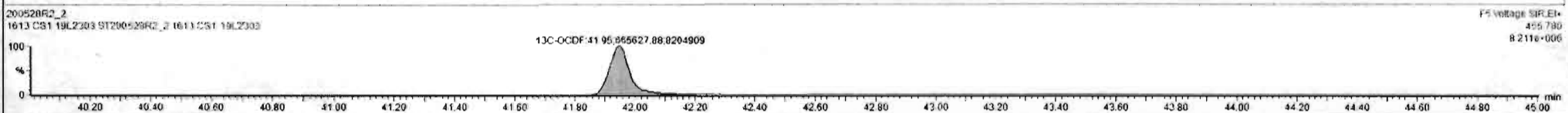
13C-OCDF



DPE5



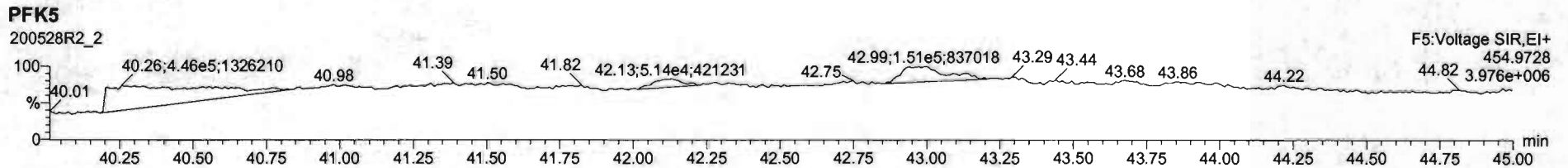
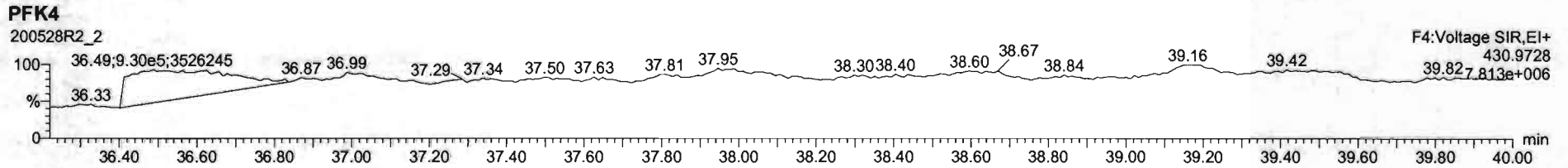
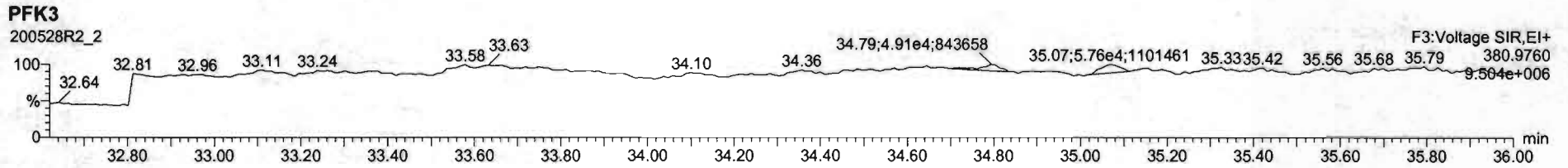
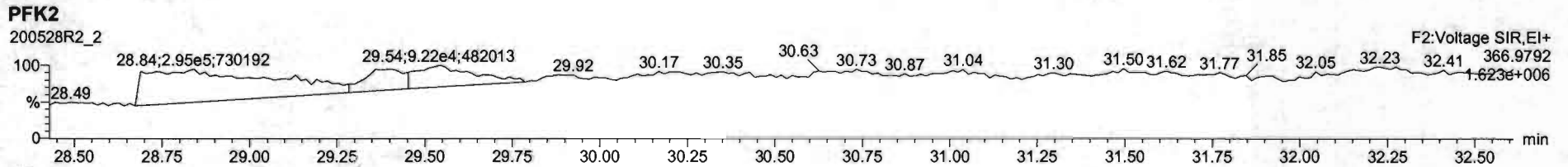
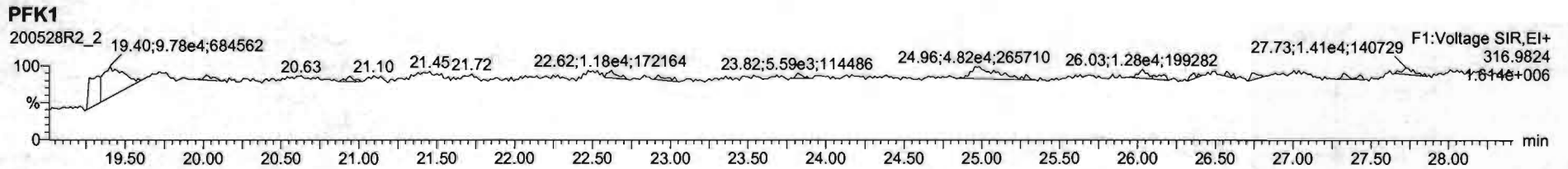
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.85e4	1.27	NO	1.0334	1.000	24.85	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.96e4	1.25	NO	0.8923	1.000	24.99	1.001	2.47	96.9	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8869	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	92.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.148	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.488	97.7	0.0670	0.488
9 1,2,3,7,8-PeCDF	3.09e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.28	NO	0.9341	1.000	34.21	1.001	2.38	95.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.42e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0126	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e0	0.79	NO	1.1563	1.000	26.54	1.025	39.3	89.8	0.0926	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	5.46e5	1.28	NO	0.7790	1.000	24.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



Dataset: Untitled

Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



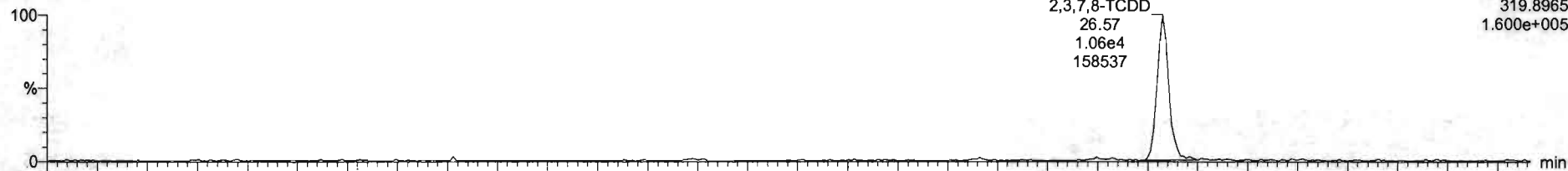
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

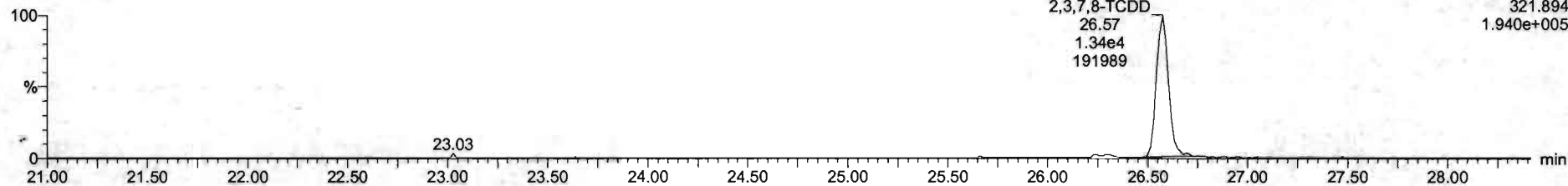
2,3,7,8-TCDD

200528R2_3



F1:Voltage SIR,EI+
319.8965
1.600e+005

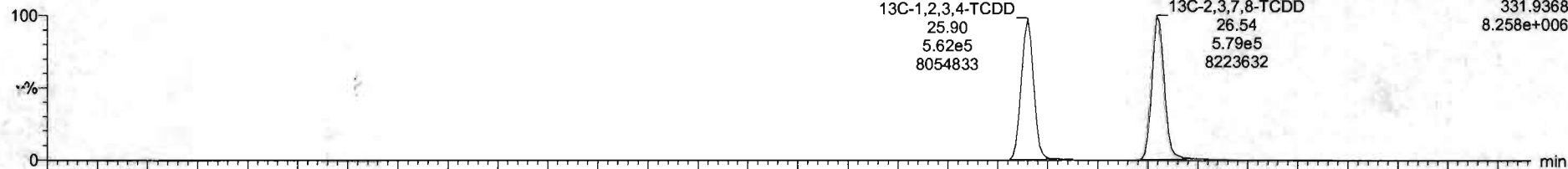
200528R2_3



F1:Voltage SIR,EI+
321.894
1.940e+005

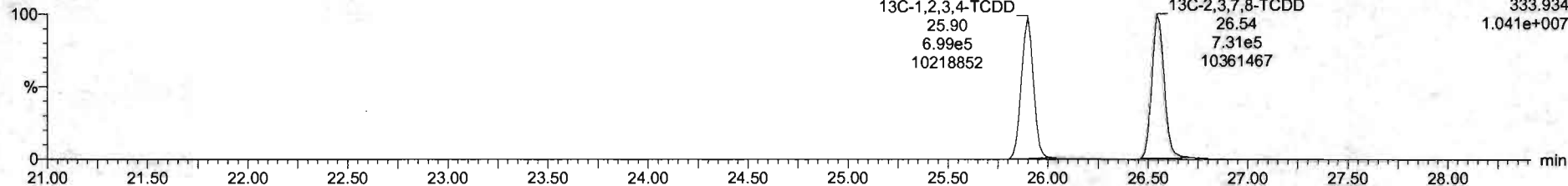
13C-2,3,7,8-TCDD

200528R2_3



F1:Voltage SIR,EI+
331.9368
8.258e+006

200528R2_3



F1:Voltage SIR,EI+
333.934
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Dataset: Untitled

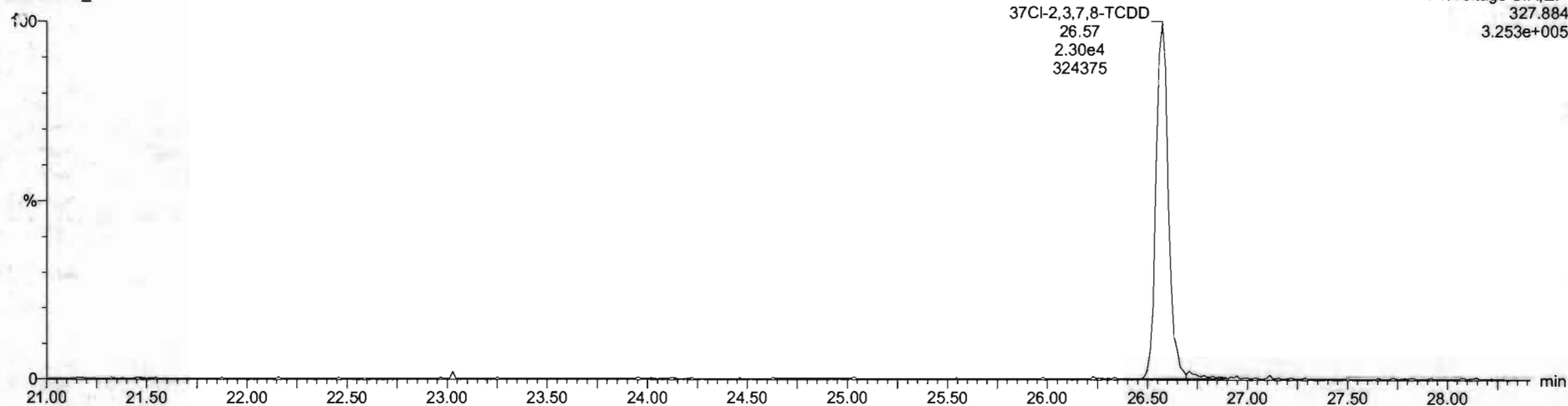
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

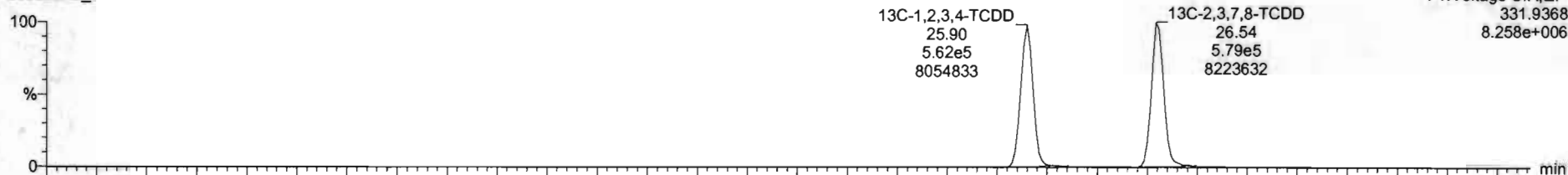
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200528R2_3

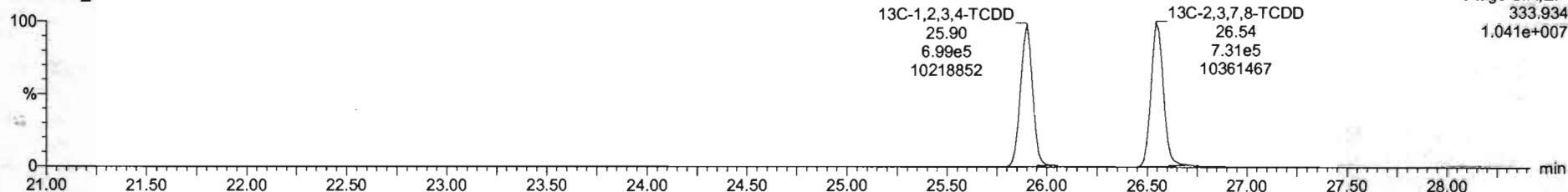


13C-1,2,3,4-TCDD

200528R2_3



200528R2_3



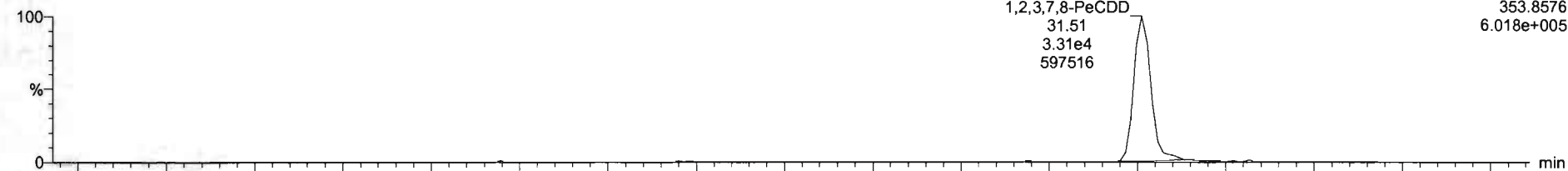
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Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
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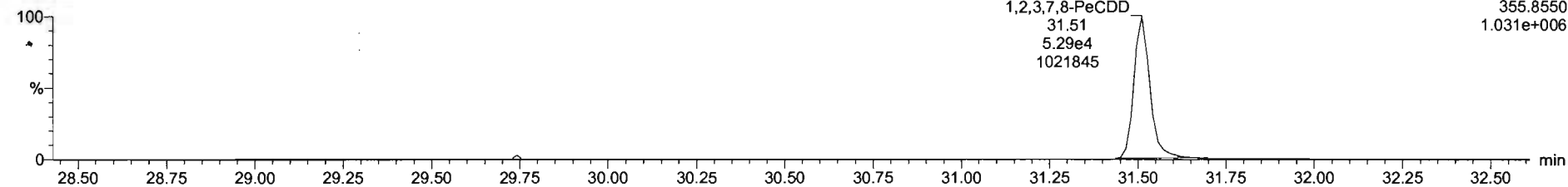
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1,2,3,7,8-PeCDD

200528R2_3

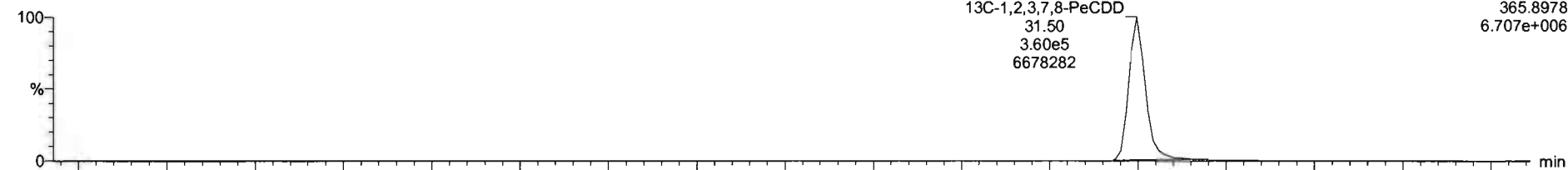


200528R2_3

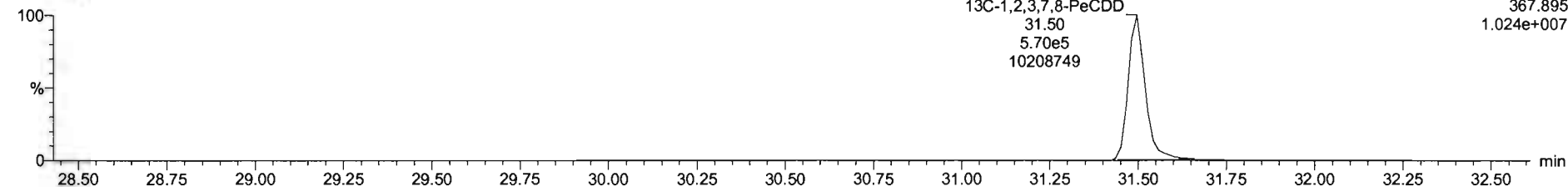


13C-1,2,3,7,8-PeCDD

200528R2_3



200528R2_3



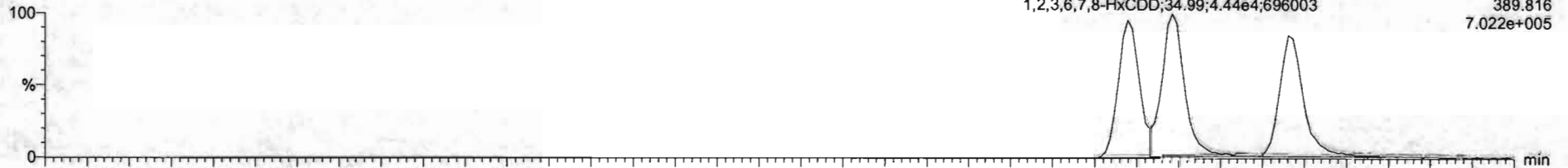
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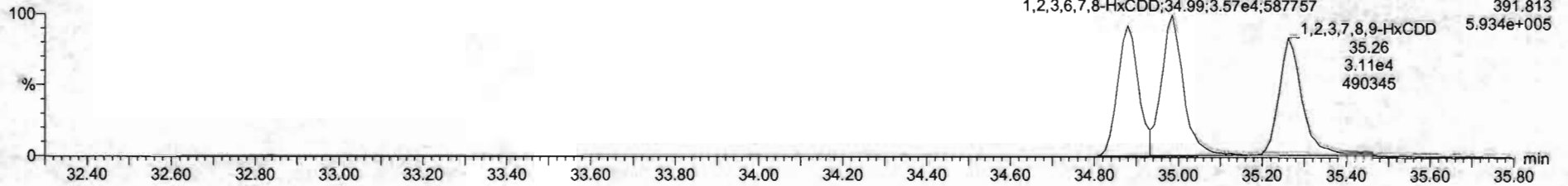
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1,2,3,4,7,8-HxCDD

200528R2_3

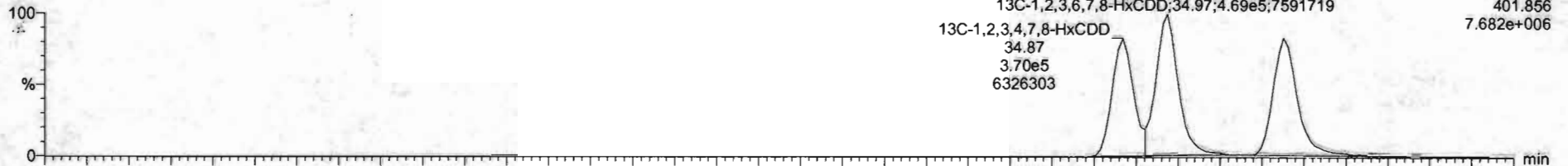


200528R2_3

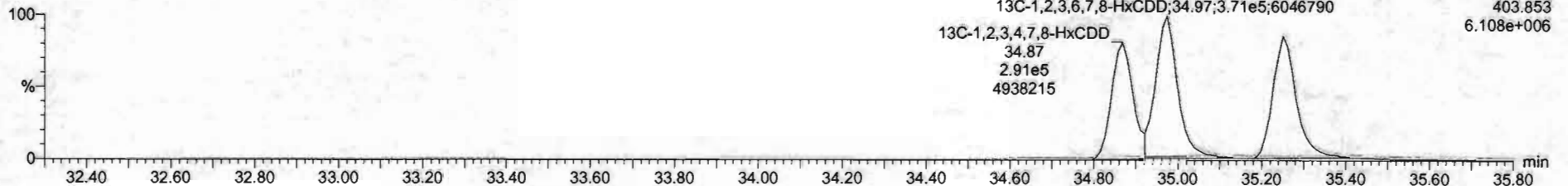


13C-1,2,3,4,7,8-HxCDD

200528R2_3



200528R2_3



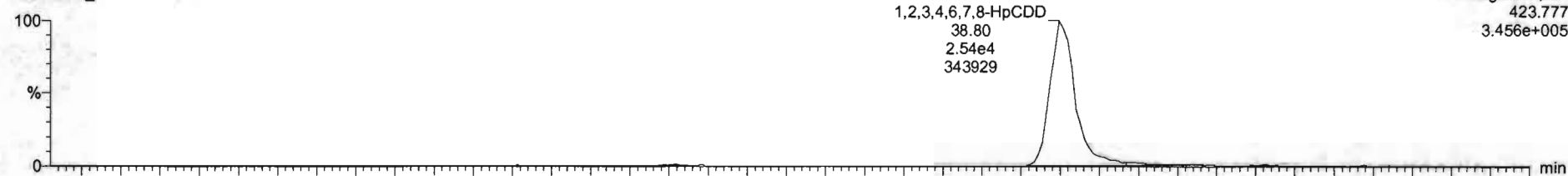
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

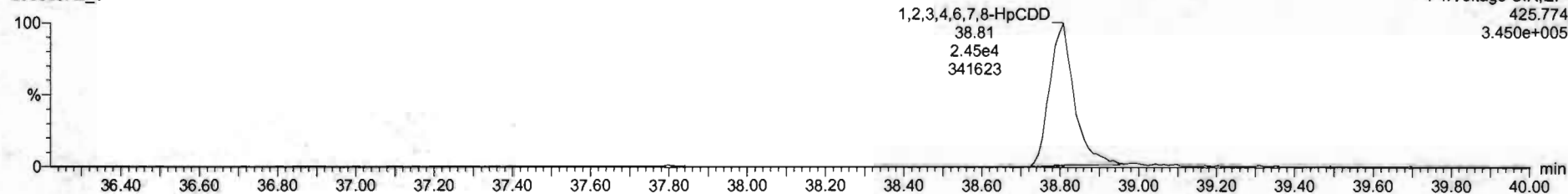
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1,2,3,4,6,7,8-HpCDD

200528R2_3

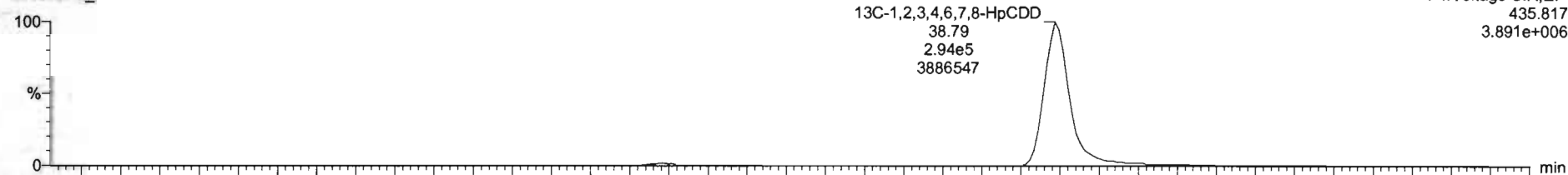


200528R2_3

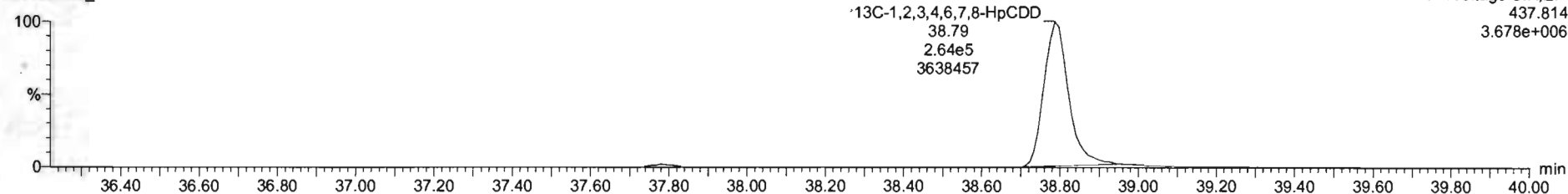


13C-1,2,3,4,6,7,8-HpCDD

200528R2_3



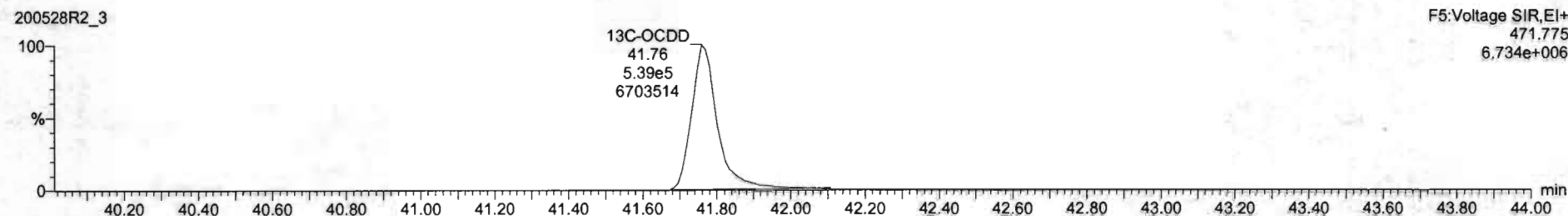
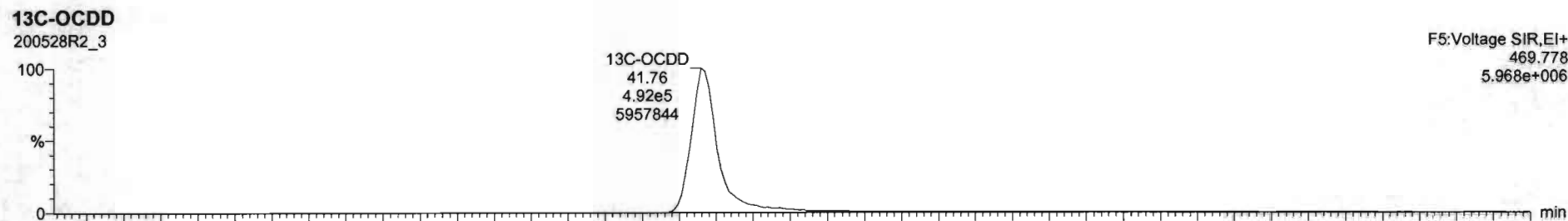
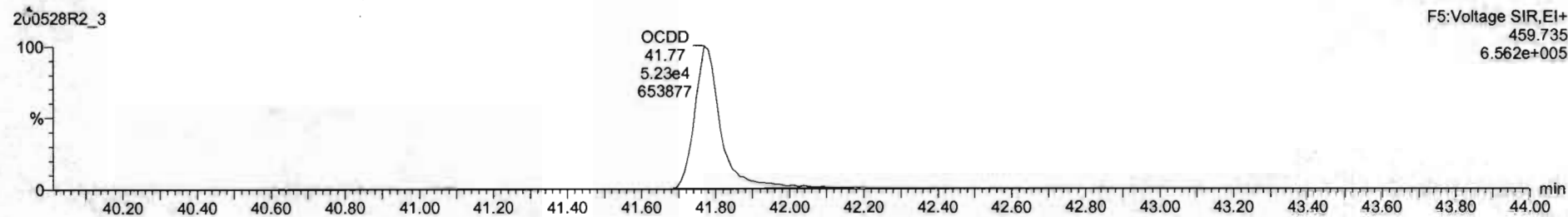
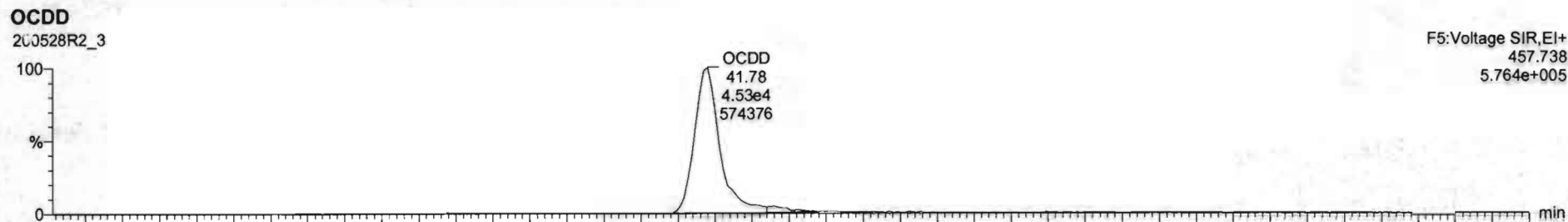
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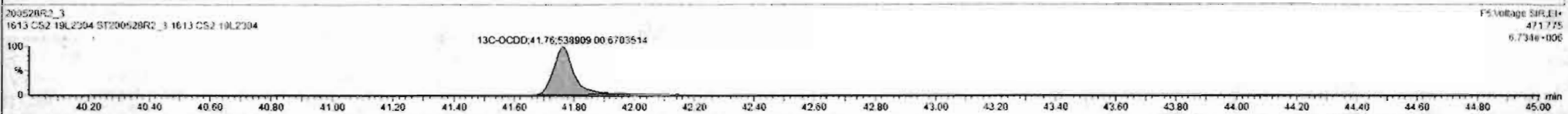
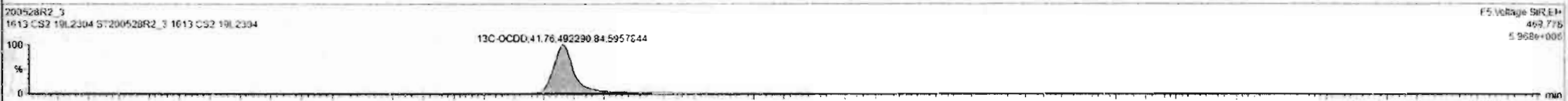
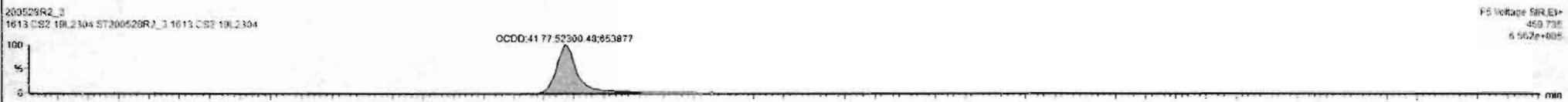
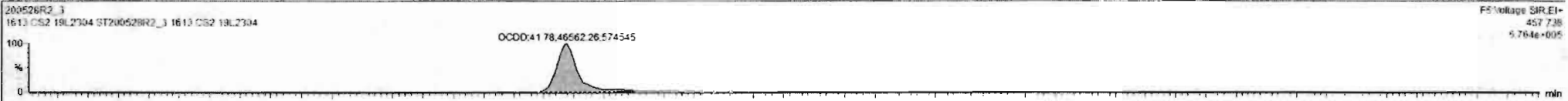
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



Name	Resp	RA	n/y	RHF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.40e4	0.30	NO	0.8983	1.000	26.57	1.001	2.05	103	0.0278	2.96
2 1,2,3,7,8-PeCDD	5.50e4	0.63	NO	0.9081	1.000	31.51	1.000	10.2	102	0.0400	10.2
3 1,2,3,4,7,8-HxCDD	6.94e4	1.24	NO	1.0324	1.000	34.88	1.000	10.2	102	0.0561	10.2
4 1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8523	1.000	34.99	1.000	10.7	107	0.0559	10.7
5 1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.8265	1.000	35.26	1.000	10.5	105	0.0679	10.5
6 1,2,3,4,6,7,8-HpCDD	4.99e4	1.93	NO	0.8639	1.000	38.50	1.000	10.4	104	0.0797	10.4
7 OCDD	9.65e4	0.39	NO	0.9136	1.000	41.76	1.000	21.0	105	0.109	21.0
8 2,3,7,8-TCDF	2.67e4	0.74	NO	0.7510	1.000	26.88	1.001	1.97	96.6	0.0321	1.97
9 1,2,3,7,8-PeCDF	1.31e5	1.55	NO	0.8925	1.000	30.23	1.000	10.7	107	0.0517	10.7
10 2,3,4,7,8-PeCDF	1.34e5	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11 1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.81	1.001	10.6	106	0.0661	10.6
12 1,2,3,6,7,8-HxCDF	5.20e4	1.28	NO	0.8892	1.000	34.12	1.000	10.3	103	0.0595	10.3
13 2,3,4,6,7,8-HxCDF	6.53e4	1.25	NO	0.9341	1.000	34.71	1.000	10.5	105	0.0660	10.5
14 1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8707	1.000	35.62	1.000	10.3	103	0.0661	10.3
15 1,2,3,4,6,7,8-HpCDF	5.72e4	1.00	NO	0.6734	1.000	37.40	1.001	10.1	101	0.0528	10.1
16 1,2,3,4,7,8,9-HpCDF	4.43e4	1.91	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0561	10.4
17 OCDF	3.85e4	0.66	NO	0.8085	1.000	41.96	1.000	20.6	103	0.0967	20.6
18 13C-2,3,7,8-TCDD	1.31e6	0.79	NO	1.1583	1.000	26.54	1.025	29.3	89.6	0.0659	
19 13C-1,2,3,7,8-PeCDD	9.29e5	0.63	NO	0.8450	1.000	31.50	1.216	86.8	86.8	0.123	
20 13C-1,2,3,4,7,8-HxCDD	6.61e5	1.27	NO	0.7790	1.000	34.87	1.014	87.0	87.0	0.189	
21 13C-1,2,3,6,7,8-HxCDD	6.39e5	1.26	NO	1.0167	1.000	34.97	1.017	84.7	84.7	0.145	



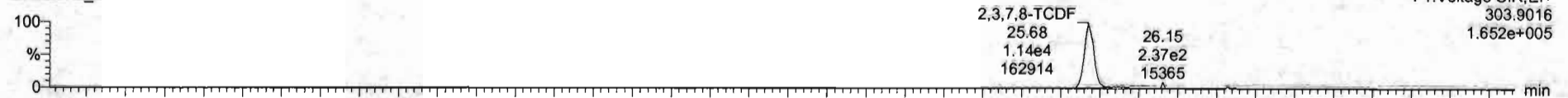
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

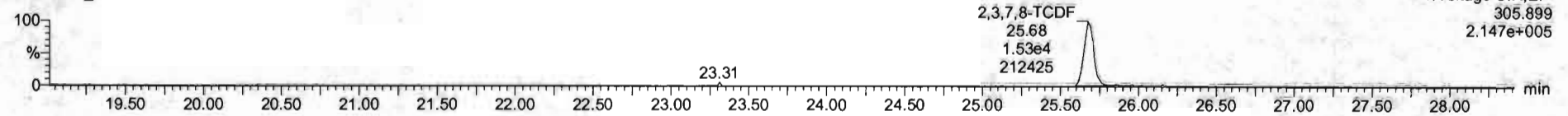
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2,3,7,8-TCDF

200528R2_3

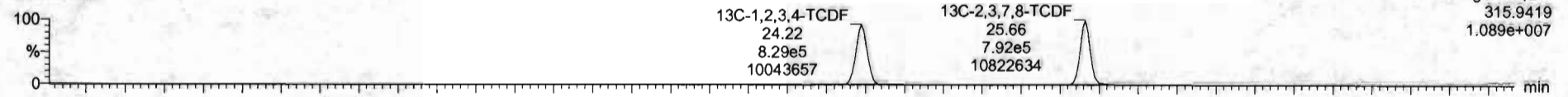


200528R2_3

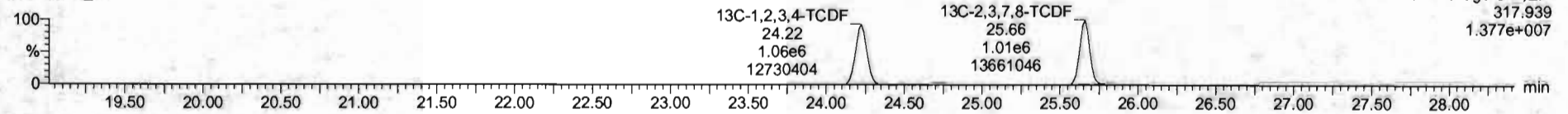


13C-2,3,7,8-TCDF

200528R2_3

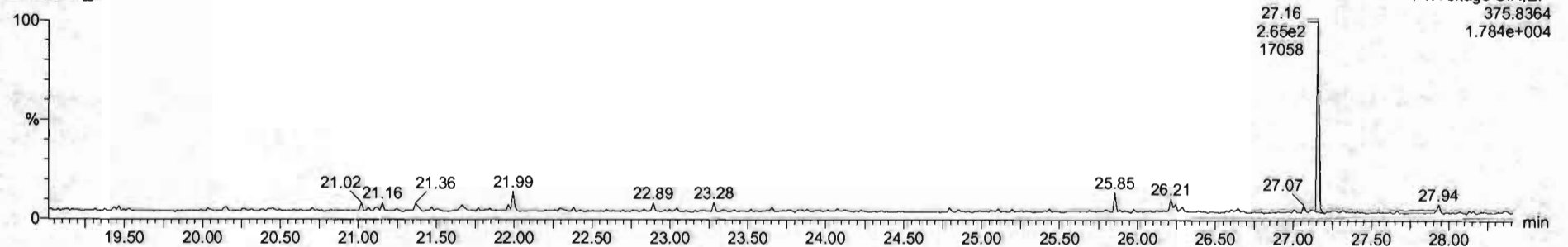


200528R2_3



DPE1

200528R2_3



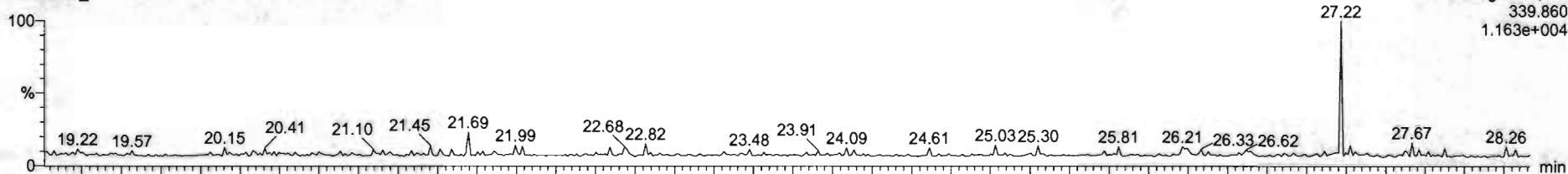
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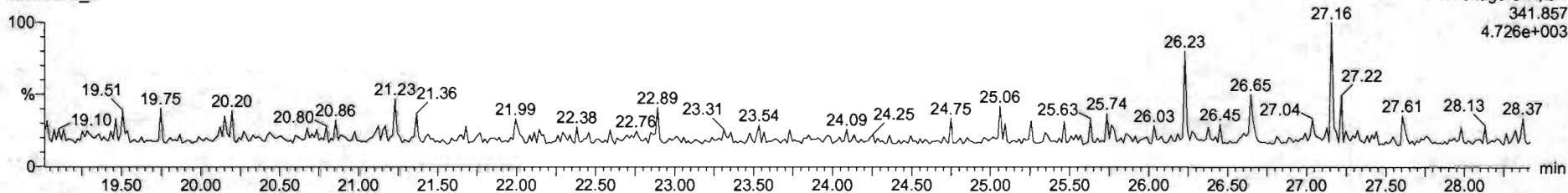
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1st Func. Penta-Furans

200528R2_3

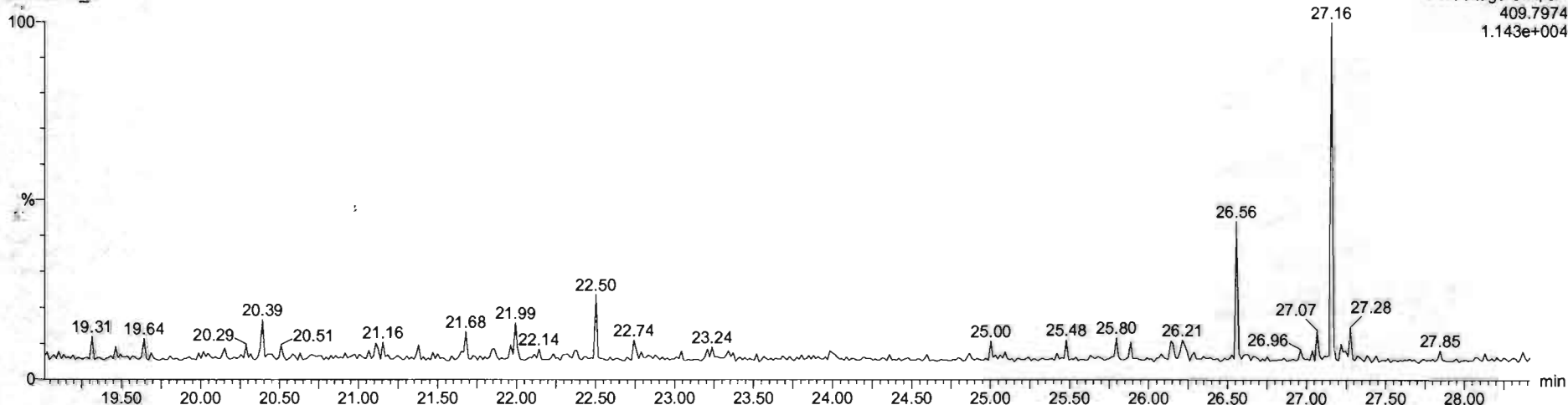


200528R2_3



DPE6

200528R2_3



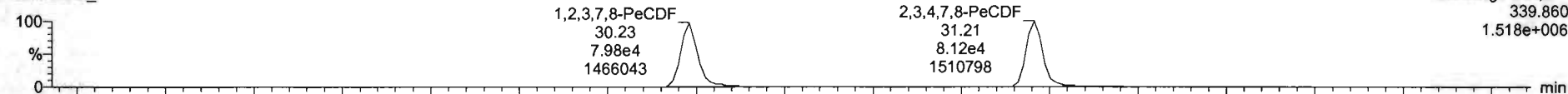
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

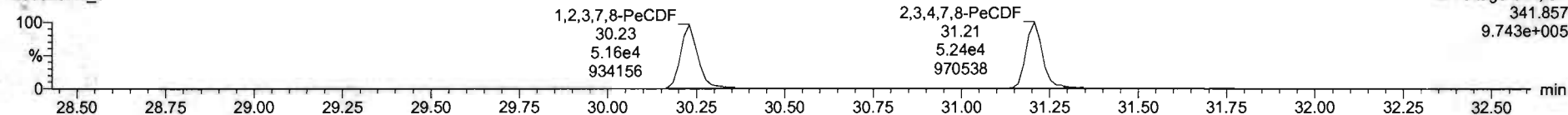
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1,2,3,7,8-PeCDF

200528R2_3

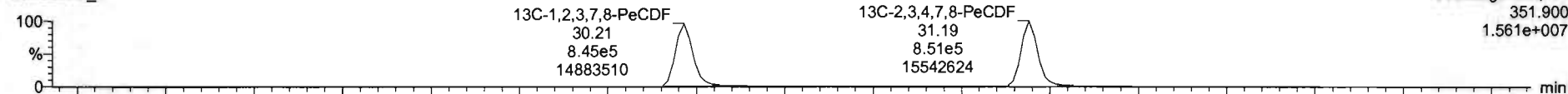


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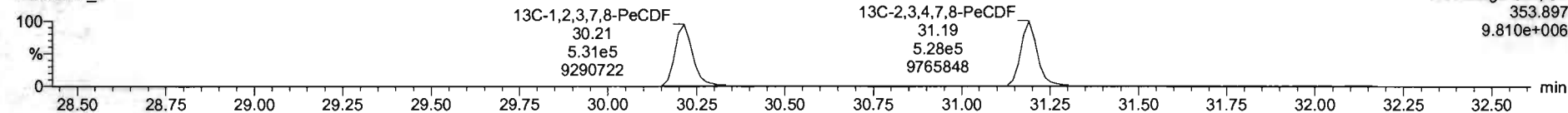


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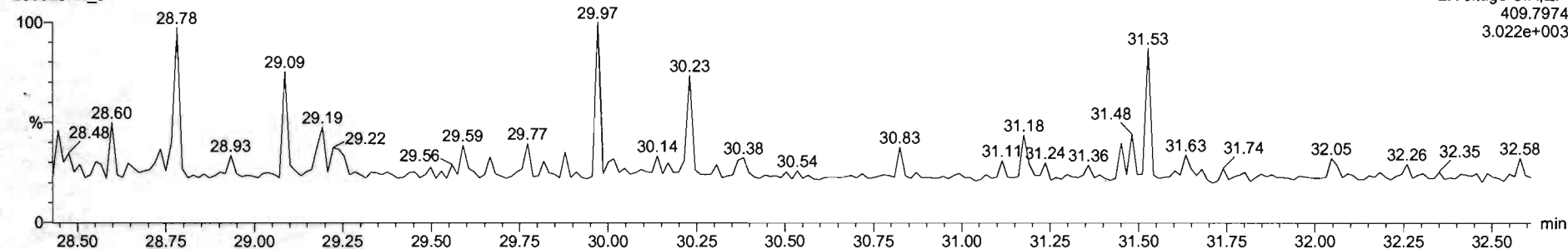


200528R2_3



DPE2

200528R2_3



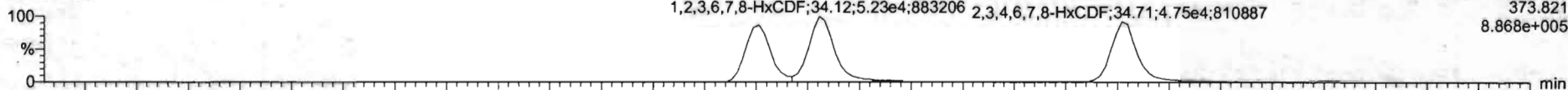
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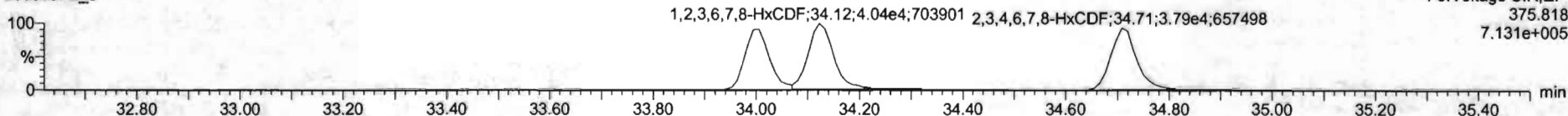
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1,2,3,4,7,8-HxCDF

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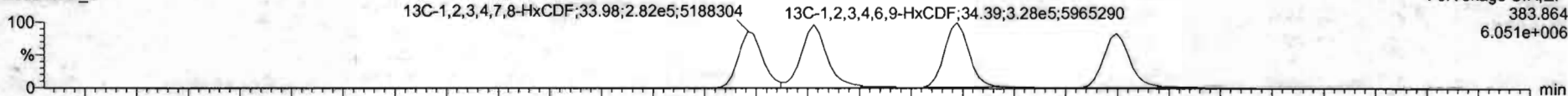


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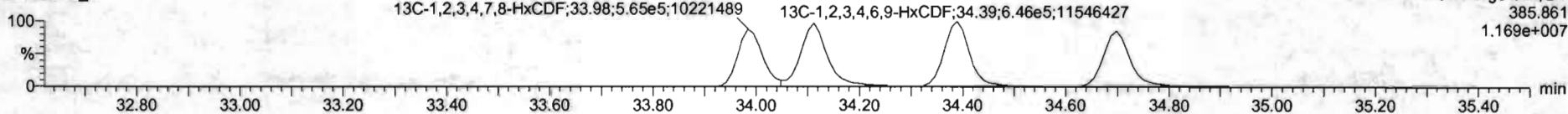


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200528R2_3

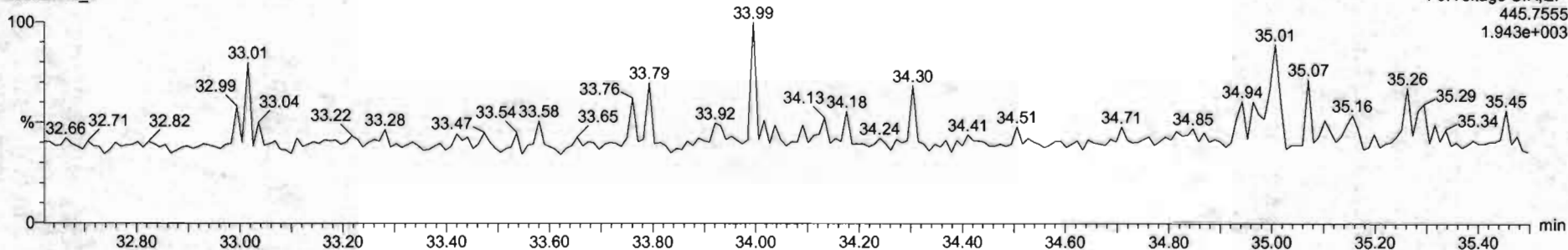


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DPE3

200528R2_3

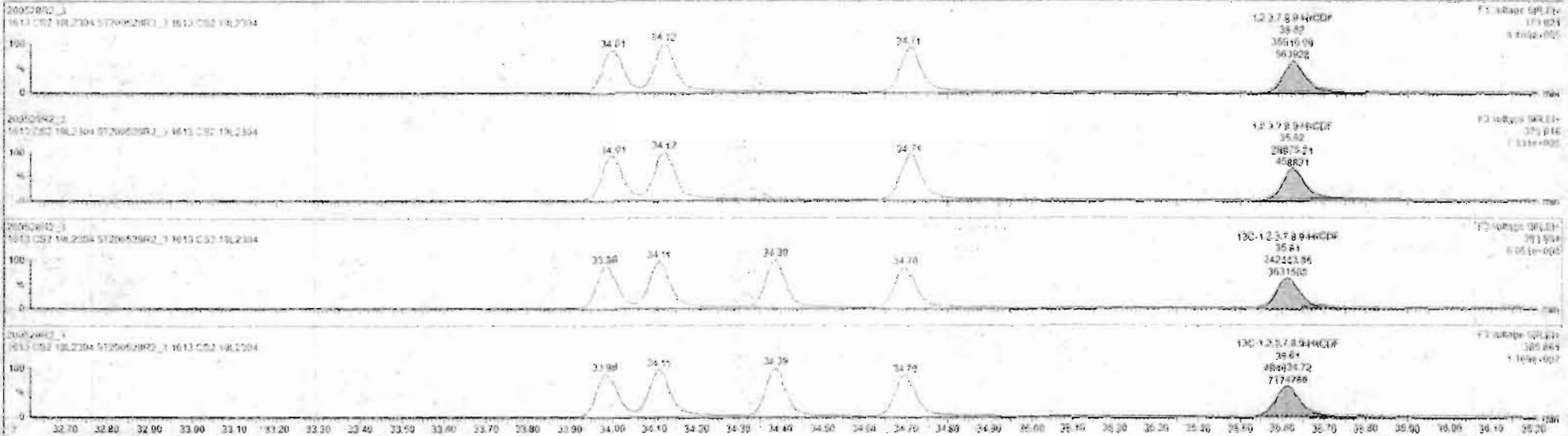


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2	1,2,3,7,8-PeCDD	5.58e4	0.43	NO	0.9051	1.000	31.51	1.000	10.2	102	0.0400	10.2
3	1,2,3,4,7,8-HxCDD	5.94e4	1.24	NO	1.0334	1.000	34.88	1.000	16.2	102	0.0501	16.2
4	1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8923	1.000	34.95	1.000	16.7	107	0.0559	16.7
5	1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.9269	1.000	35.26	1.000	16.1	105	0.0670	16.1
6	1,2,3,4,6,7,8-HpCDD	1.99e4	1.02	NO	0.8839	1.000	39.80	1.000	16.4	104	0.0797	16.4
7	OCDD	9.89e4	0.39	NO	0.9136	1.000	41.75	1.000	21.0	105	0.1169	21.0
8	1,2,3,6,7,8-PeCDF	2.87e4	0.74	NO	0.7510	1.000	35.60	1.001	1.91	98.8	0.0511	1.91
9	1,2,3,7,8-PeCDF	1.31e5	1.58	NO	0.8025	1.000	36.23	1.000	10.7	107	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.34e4	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11	1,2,3,4,7,8-HpCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	106	0.0611	10.4
12	1,2,3,6,7,8-HpCDF	9.26e4	1.28	NO	0.8852	1.000	34.12	1.000	11.3	103	0.0595	10.3
13	1,2,3,6,7,8-HxCDF	8.03e4	1.21	NO	0.9191	1.000	34.71	1.000	10.5	105	0.0693	10.5
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.9707	1.000	35.62	1.000	10.3	102	0.0691	10.3
15	1,2,3,4,6,7,8-HpCDF	3.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0628	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0681	10.4
17	OCDF	5.58e4	0.36	NO	0.8055	1.000	41.90	1.000	26.3	103	0.0967	26.3
18	1,2,3,6,7,8-PeCDD	1.31e5	0.79	NO	1.1562	1.000	26.04	1.025	39.0	99.8	0.0809	39.0
19	1,2,3,7,8-PeCDF	9.26e4	0.63	NO	0.8499	1.000	31.50	1.216	98.0	98.1	0.123	98.0
20	1,2,3,4,7,8-HxCDD	6.61e5	1.27	NO	0.7790	1.000	24.97	1.014	37.0	102.0	0.148	37.0
21	1,2,3,6,7,8-HpCDD	6.19e4	1.38	NO	1.0167	1.000	24.97	1.017	64.7	54.7	0.146	64.7





#	Name	Range	ISA	Qty	RFP	wtVol	RT	RRT	Conc	%Rec	DI	EMPC
1	1,2,3,7,8-HxCDD	2.48e4	0.30	NO	0.8853	1.000	26.17	1.001	3.28	101	0.0079	2.01
2	1,2,3,7,8-PeCDD	5.55e4	0.50	NO	0.9041	1.000	31.21	1.002	10.2	102	0.0430	10.2
3	1,2,3,4,7,8-HxCDD	5.89e4	1.24	NO	1.0334	1.000	34.00	1.000	10.2	102	0.0511	10.2
4	1,2,3,6,7,8-HxCDD	5.81e4	1.24	NO	0.8927	1.000	34.99	1.000	10.7	101	0.0569	10.7
5	1,2,3,7,8,9-HxCDD	7.51e4	1.25	NO	0.8905	1.000	35.20	1.000	10.5	101	0.0670	10.5
6	1,2,3,4,6,7,8-HpCDD	4.99e4	1.03	NO	0.8838	1.000	28.00	1.000	10.4	104	0.0197	10.4
7	COCDD	3.89e4	0.39	NO	0.9130	1.000	41.75	1.000	21.0	105	0.1005	21.0
8	1,2,3,7,8-HxCDF	2.87e4	0.74	NO	0.7510	1.000	25.09	1.001	1.97	98.6	0.0231	1.97
9	1,2,3,7,8-PeCDF	1.31e4	1.55	NO	0.6525	1.000	30.21	1.000	18.7	101	0.0817	18.7
10	1,2,3,4,7,8-HxCDF	1.38e4	1.55	NO	0.9245	1.000	31.21	1.000	10.5	104	0.0475	10.4
11	1,2,3,4,7,8-HpCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	102	0.0683	10.5
12	1,2,3,6,7,8-HxCDF	4.26e4	1.25	NO	0.9892	1.000	34.12	1.000	10.2	103	0.0595	10.2
13	1,2,3,6,7,8-HpCDF	8.51e4	1.25	NO	0.9341	1.000	34.71	1.000	10.3	103	0.0600	10.3
14	1,2,3,7,8,9-HpCDF	6.49e4	1.24	NO	0.8787	1.000	35.81	1.000	10.3	103	0.0601	10.3
15	1,2,3,4,6,7,8-HpCDF	5.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0820	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	0.8128	1.000	39.38	1.000	10.4	104	0.0601	10.4
17	OCDF	3.58e4	0.50	NO	0.8985	1.000	41.96	1.000	25.4	103	0.0963	25.4
18	1,2,3,4,6,7,8,9-HxCDF	1.31e4	0.79	NO	1.1560	1.000	26.54	1.025	19.0	99.5	0.0663	
19	1,2,3,6,7,8,9-HxCDF	9.29e4	0.83	NO	0.9420	1.000	31.08	1.216	20.0	96.8	0.123	
20	1,2,3,4,7,8,9-HpCDD	2.61e4	1.27	NO	0.7798	1.000	34.07	1.034	57.0	97.0	0.159	
21	1,2,3,4,6,7,8-HpCDD	6.20e4	1.26	NO	1.0187	1.000	24.97	1.017	34.7	94.7	0.145	



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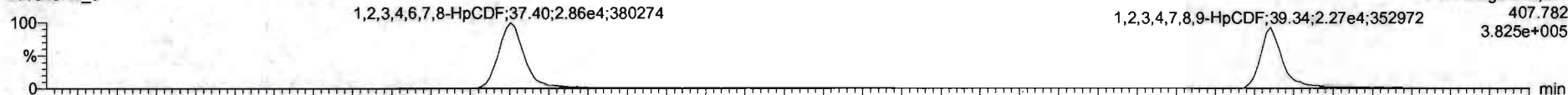
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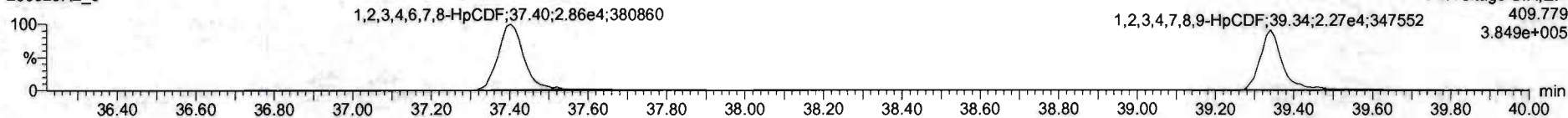
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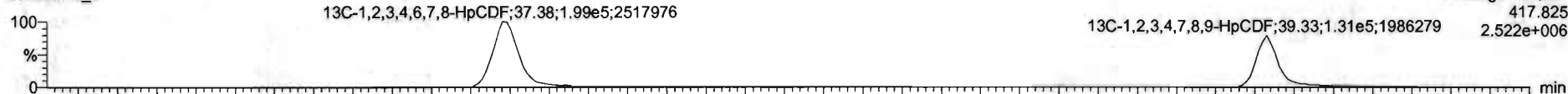


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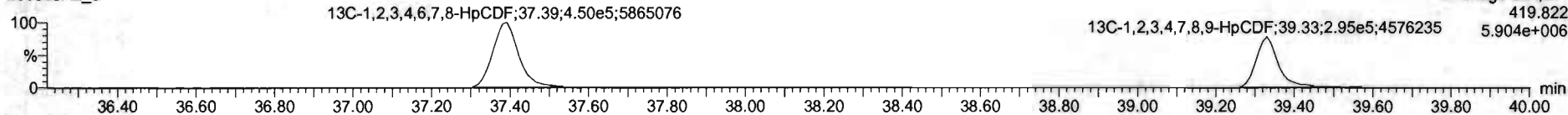


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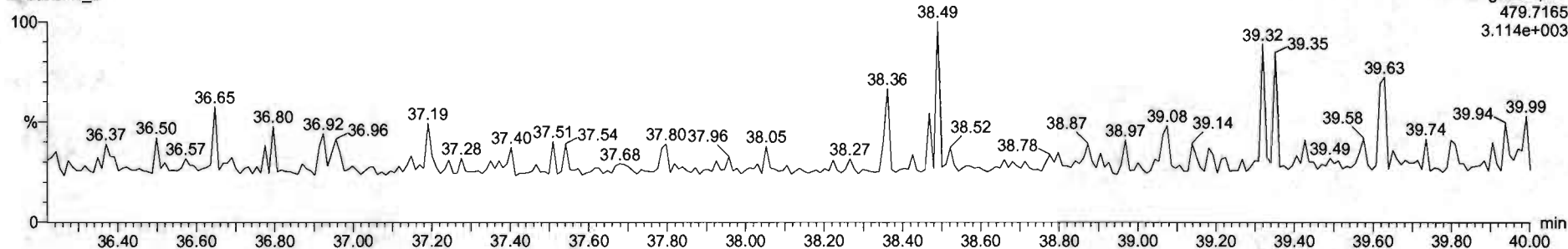


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DPE4

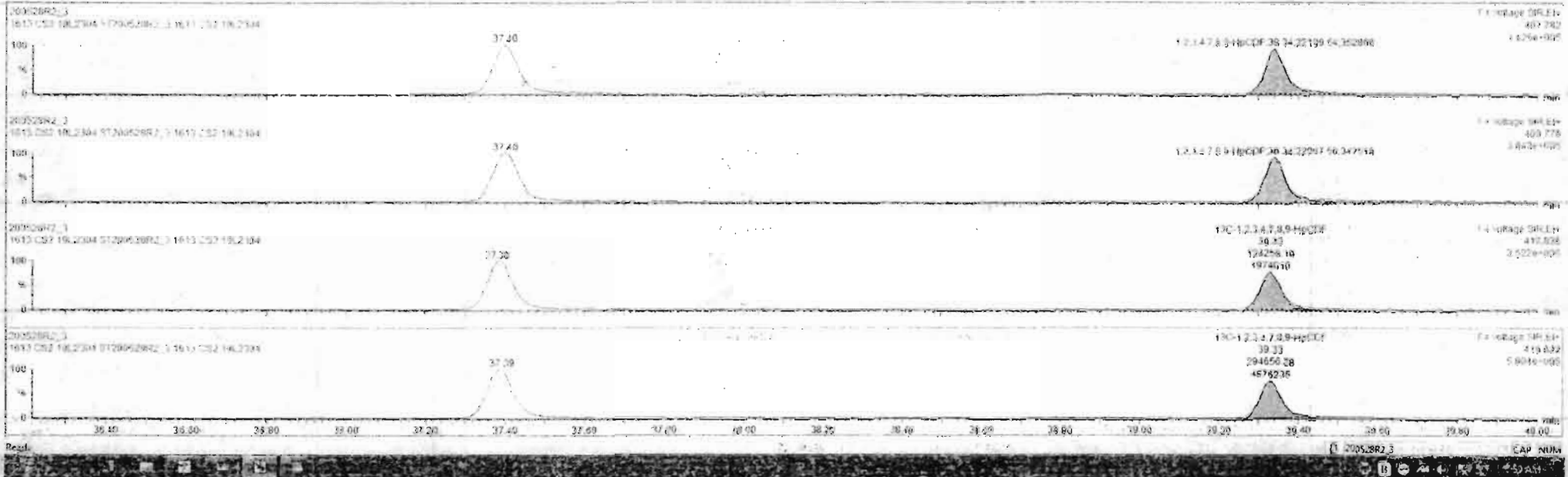
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1613 CS2 19.2304

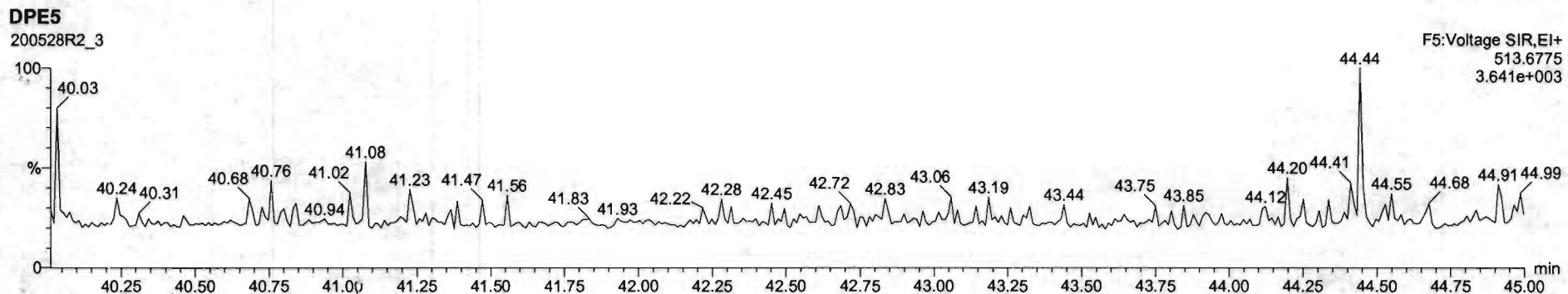
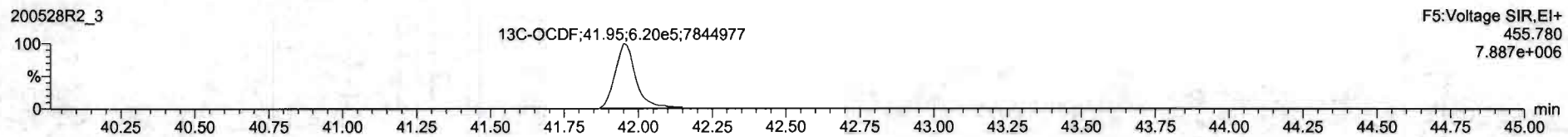
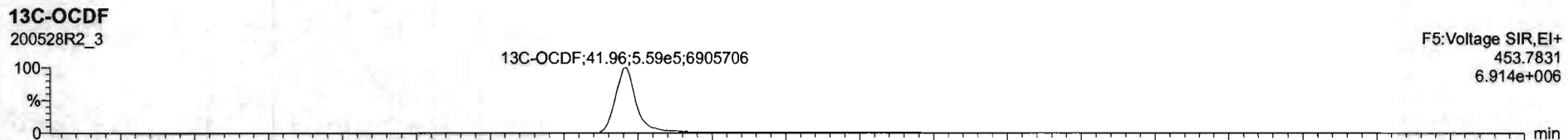
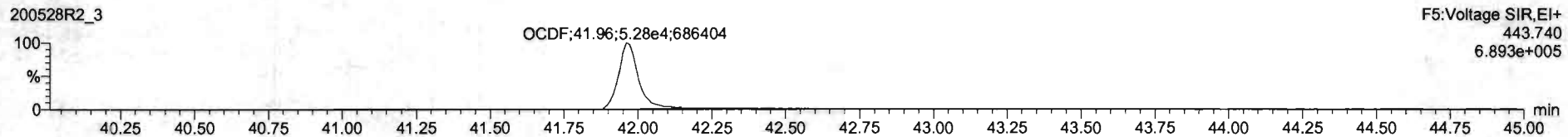
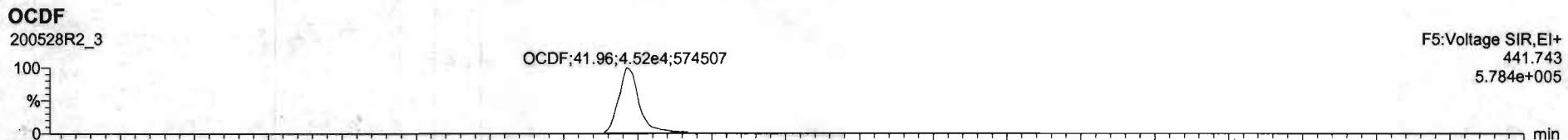
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2	1.2.3.7.8-PCDD	1.58e4	0.83	NO	0.9091	1.000	31.51	1.000	10.2	107	0.0400	10.2
3	1.2.3.4.7.8-HxCDF	8.9e4	1.24	NO	1.0334	1.000	34.55	1.000	10.2	107	0.0501	10.2
4	1.2.3.6.7.8-HxCDF	8.01e4	1.24	NO	0.9621	1.000	34.96	1.000	10.7	107	0.0559	10.7
5	1.2.3.7.8-HxCDF	7.01e4	1.26	NO	0.8899	1.007	35.26	1.000	10.5	107	0.0579	10.5
6	1.2.3.4.6.7.8-HxCDF	1.96e4	1.02	NO	0.8639	1.000	35.96	1.000	10.4	104	0.0792	10.4
7	OCDF	0.59e4	0.89	NO	0.9126	1.000	31.75	1.000	21.0	105	0.109	21.0
8	1.2.3.5.7-TCDF	2.77e4	0.74	NO	0.7510	1.000	25.56	1.001	1.97	96.8	0.0121	1.97
9	1.2.3.7.8-HxCDF	7.35e4	1.16	NO	0.8902	1.000	35.23	1.000	10.7	107	0.0517	10.7
10	1.2.3.4.7.8-HxCDF	1.76e4	1.05	NO	0.9140	1.000	31.41	1.000	10.4	104	0.0175	10.4
11	1.2.3.4.7.8-HxCDF	7.91e4	1.22	NO	0.8945	1.000	34.05	1.001	10.6	106	0.0651	10.6
12	1.2.3.6.7.8-HxCDF	1.28e4	1.28	NO	0.9242	1.000	34.12	1.000	10.3	103	0.0595	10.3
13	1.2.3.4.7.8-HxCDF	8.53e4	1.25	NO	0.9341	1.000	34.71	1.000	10.5	105	0.0690	10.5
14	1.2.3.7.8-HxCDF	8.49e4	1.24	NO	0.9257	1.000	35.42	1.000	10.3	103	0.0661	10.3
15	1.2.3.4.6.7.8-HxCDF	1.72e4	1.00	NO	0.9224	1.000	37.40	1.001	10.1	101	0.0626	10.1
16	1.2.3.4.7.8.9-HpCDF	4.43e4	1.03	NO	1.0126	1.000	39.34	1.000	10.4	104	0.0681	10.4
17	OCDF	9.8e+1	0.90	NO	0.9065	1.000	41.30	1.000	26.6	103	0.0847	26.6
18	1.2.3.4.7.8-TCDF	1.31e4	0.76	NO	1.1563	1.000	26.54	1.005	55.0	39.5	0.0859	55.0
19	1.2.3.4.7.8-PCDF	9.38e3	0.85	NO	0.8950	1.000	35.10	1.016	20.0	80.0	0.123	20.0
20	1.2.3.4.7.8-HxCDF	8.61e3	1.27	NO	0.7790	1.000	34.87	1.014	67.0	67.0	0.109	67.0
21	1.2.3.4.6.7.8-HxCDF	6.39e3	1.26	NO	1.0167	1.000	34.07	1.017	34.7	34.7	0.140	34.7



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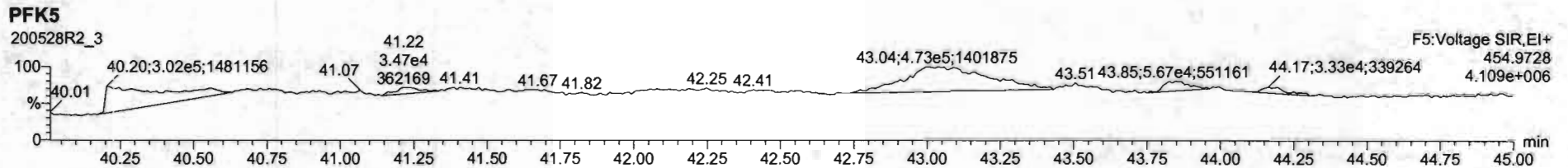
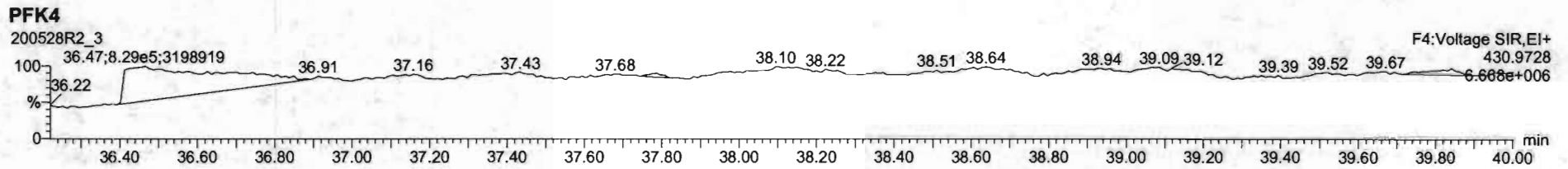
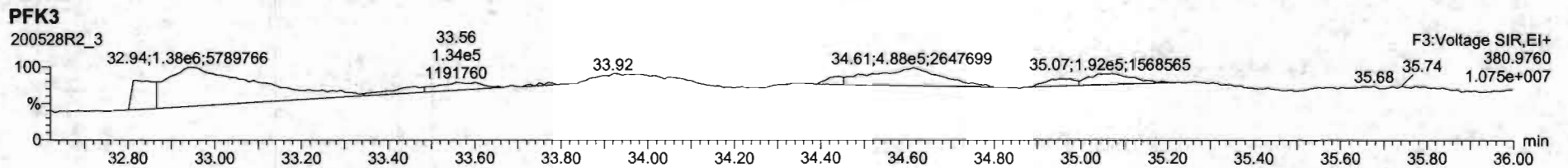
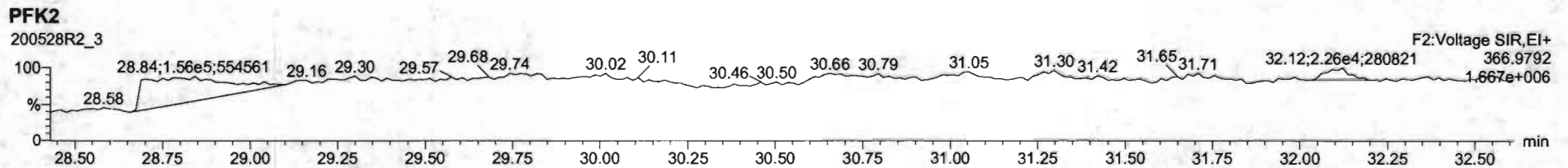
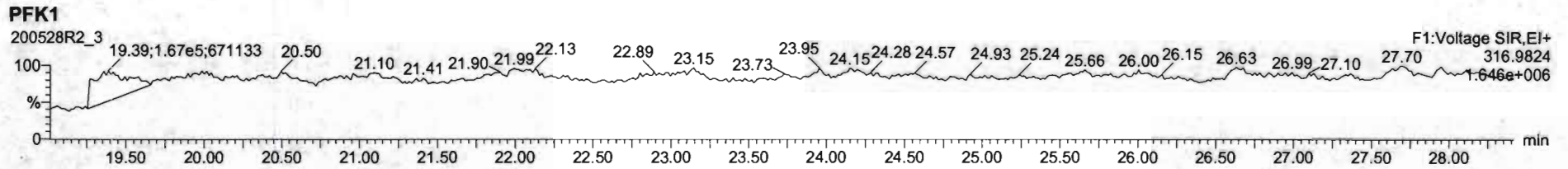


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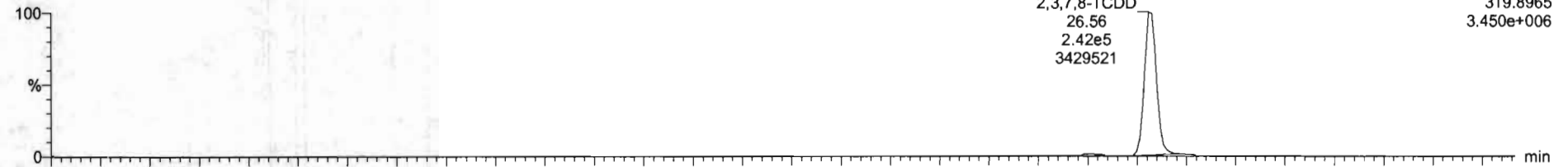
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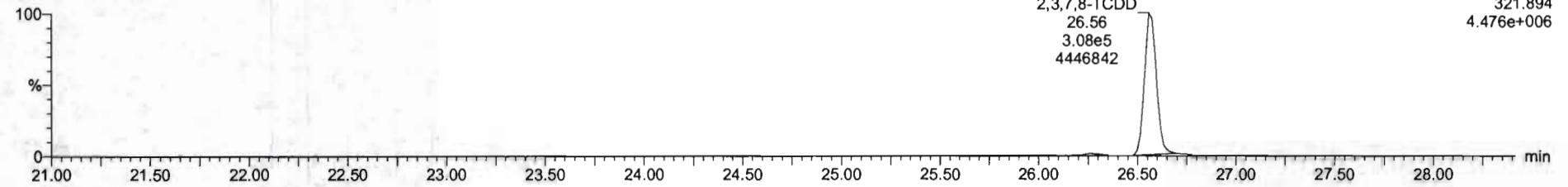
2,3,7,8-TCDD

200528R2_4



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3.450e+006

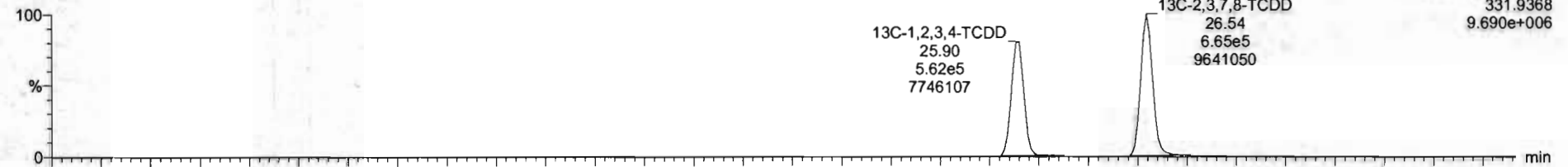
200528R2_4



F1:Voltage SIR,EI+
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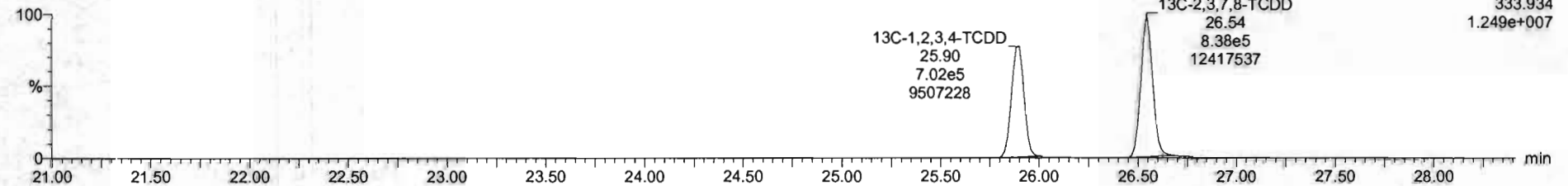
13C-2,3,7,8-TCDD

200528R2_4



F1:Voltage SIR,EI+
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200528R2_4



F1:Voltage SIR,EI+
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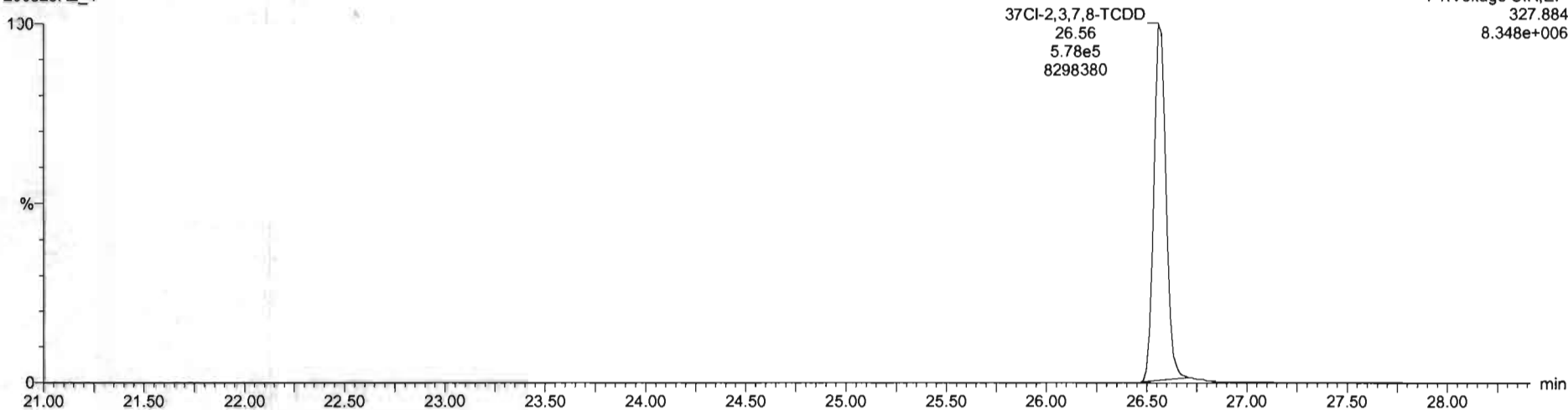
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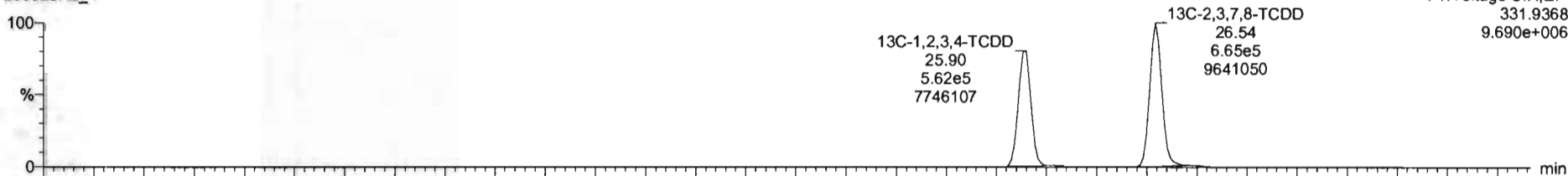
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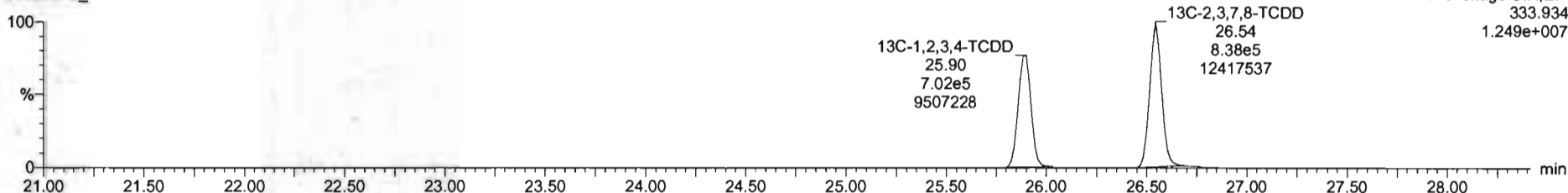


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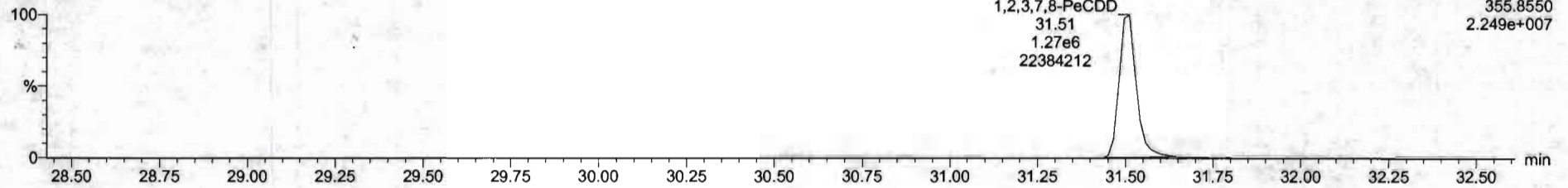
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1,2,3,7,8-PeCDD

200528R2_4

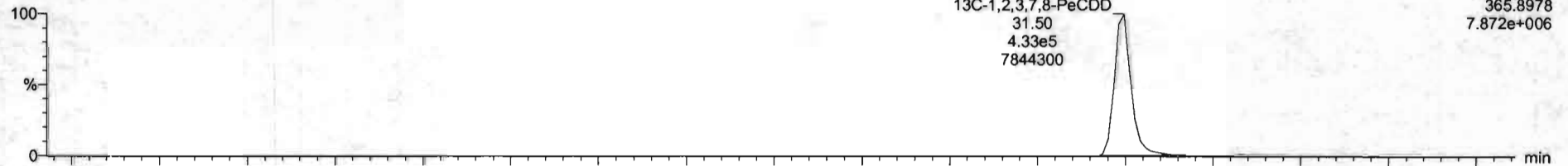


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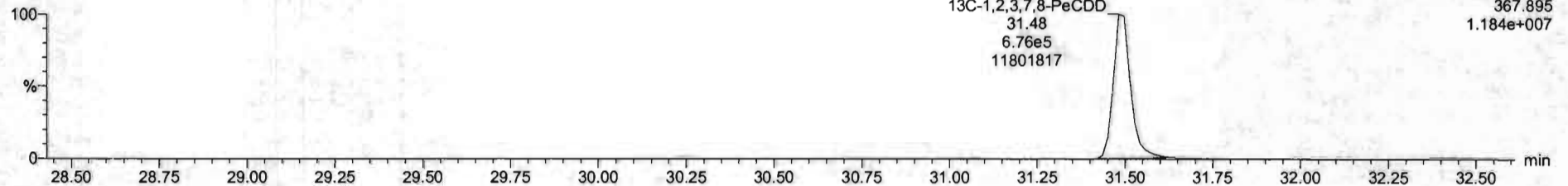


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200528R2_4



200528R2_4



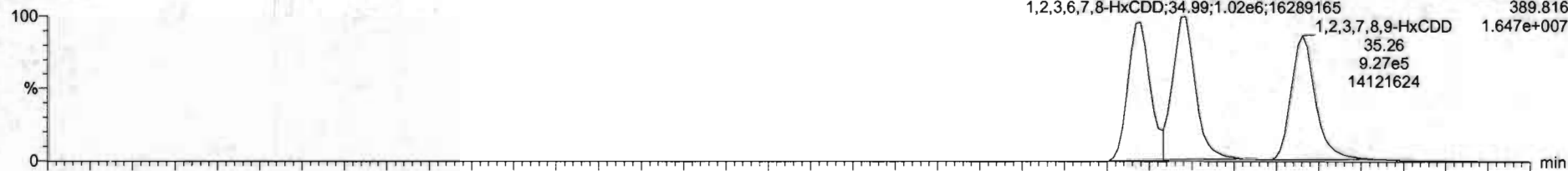
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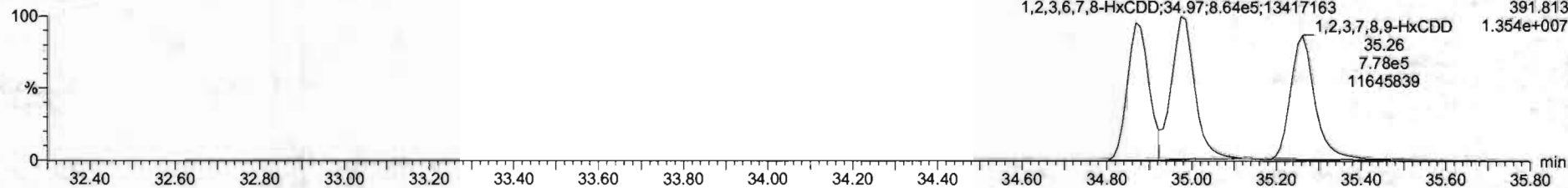
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1,2,3,4,7,8-HxCDD

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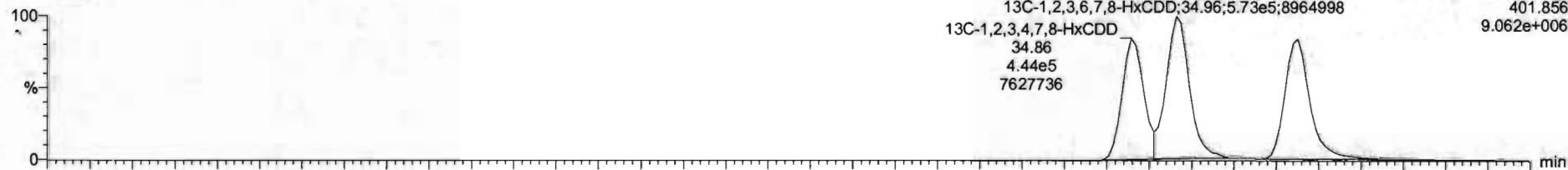


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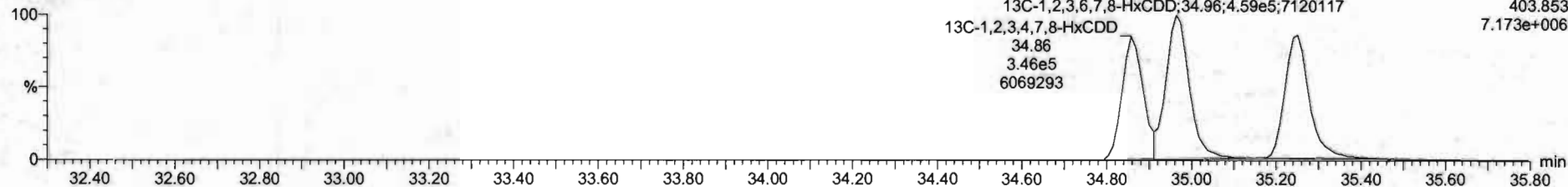


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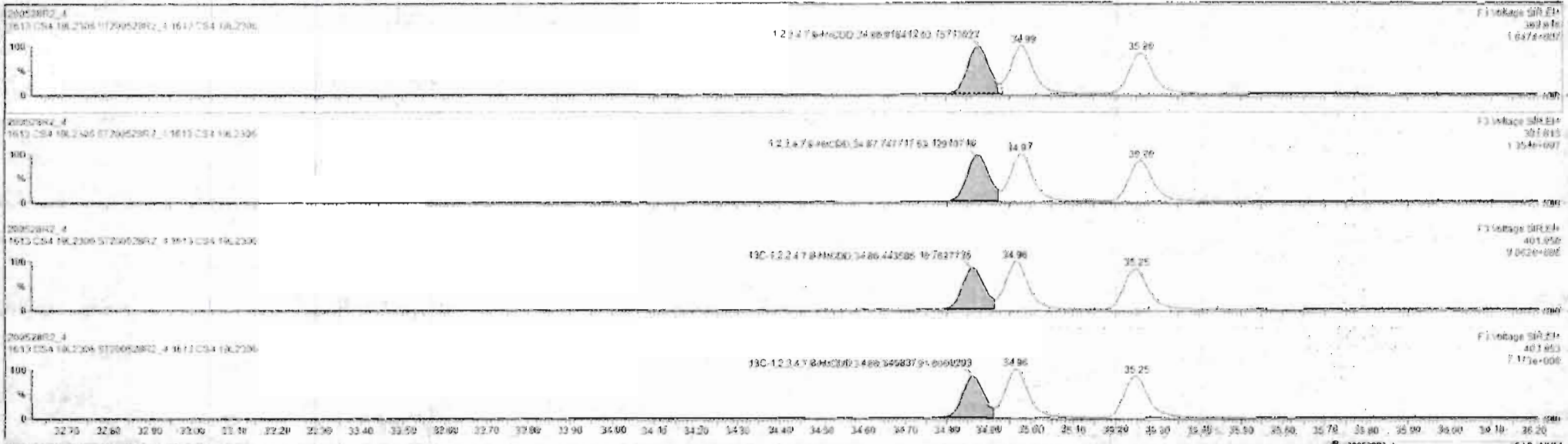


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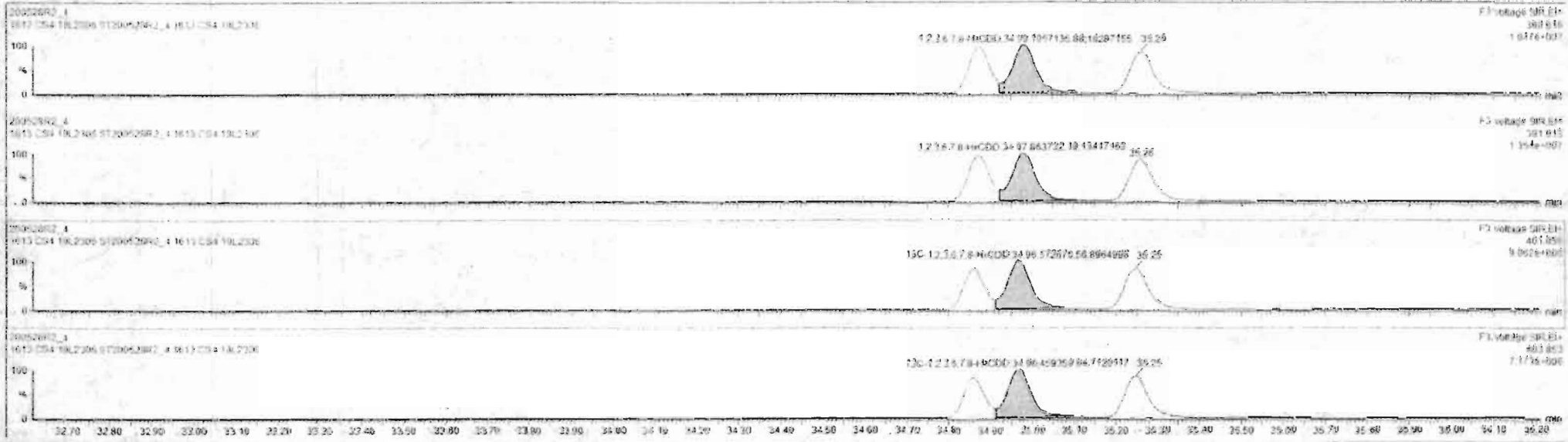


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1	1.2.3.7.8-TCDD	2.50e6	0.78	NO	0.882	1.000	26.99	1.001	41.2	101	0.129	41.2
2	1.2.3.7.8-HxCDD	2.25e6	0.83	NO	0.6091	1.000	31.51	1.000	205	102	0.0837	205
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0394	1.000	34.86	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8921	1.000	34.98	1.001	200	104	0.111	200
5	1.2.3.7.8.9-HxCDD	1.70e6	1.26	NO	0.8865	1.000	35.25	1.000	210	105	0.113	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.6839	1.000	36.80	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.27	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	1.2.3.6-TCDF	6.52e6	0.76	NO	0.7019	1.000	25.88	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	28.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	3.50e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.223	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8812	1.000	33.12	1.001	206	103	0.203	206
13	2.3.4.6.7.8-HxCDF	2.96e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.26	NO	0.8701	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8065	1.000	41.96	1.000	402	100	0.171	402
18	13C-1.2.3.7.8-TCDD	1.58e6	0.79	NO	1.1563	1.000	26.64	1.025	103	103	0.164	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.84	NO	0.8489	1.000	31.58	1.216	103	103	0.138	
20	13C-1.2.3.4.7.8-HxCDD	7.89e6	1.28	NO	0.7736	1.000	34.96	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.07e6	1.25	NO	1.0147	1.000	34.96	1.017	104	104	0.121	

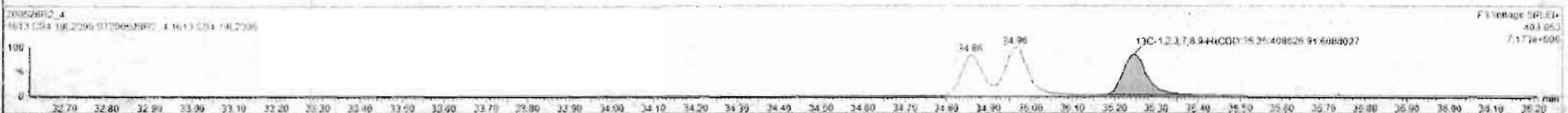
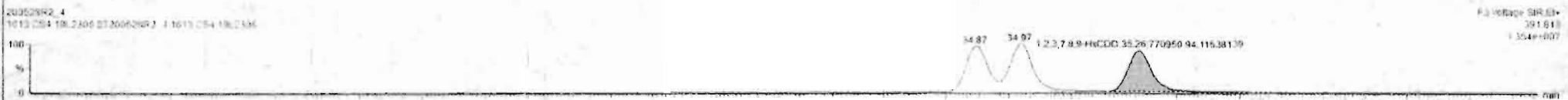


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#	Name	Keep	RA	RY	RF	WRet	RT	RRT	Conc	WRet	DL	EMPU
1	1.2.3.7.8-TCDF	1.50e6	0.18	NO	0.0061	1.000	36.96	1.001	41.2	101	0.124	41.1
2	1.2.3.7.8-HxCDD	2.56e6	0.43	NO	0.0041	1.000	31.51	1.000	205	102	0.0017	204
3	1.2.3.7.8-HxCDF	1.87e6	1.23	NO	1.0714	1.000	34.80	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.0020	1.000	34.96	1.001	394	104	0.119	395
5	1.2.3.7.8-HxCDF	1.19e6	1.20	NO	0.0065	1.000	35.26	1.000	210	102	0.133	210
6	1.2.3.4.6.7.8-HxCDD	1.25e6	1.02	NO	0.0033	1.000	36.60	1.000	211	104	0.218	211
7	OCDD	2.45e6	0.97	NO	0.0136	1.000	41.77	1.000	307	104	0.192	307
8	1.2.3.7.8-TCDF	4.12e6	0.76	NO	0.0140	1.000	25.88	1.001	42.0	107	0.123	42.0
9	1.2.3.7.8-HxCDF	1.19e6	1.14	NO	0.0025	1.000	30.23	1.000	203	101	0.100	203
10	1.2.3.4.7.8-HxCDF	1.08e6	1.14	NO	0.0346	1.000	31.21	1.000	204	102	0.169	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.0041	1.000	33.99	1.000	200	104	0.221	200
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.0092	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.6.7.8-HxCDF	2.68e6	1.19	NO	0.0041	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8-HxCDF	1.68e6	1.20	NO	0.0007	1.000	35.62	1.001	208	104	0.215	208
15	1.2.3.4.6.7.8-HxCDF	1.43e6	0.99	NO	0.0034	1.000	37.59	1.000	213	106	0.213	213
16	1.2.3.4.7.8-HxCDF	1.13e6	0.90	NO	1.0120	1.000	30.33	1.000	214	107	0.227	214
17	OCDF	2.34e6	0.97	NO	0.0254	1.000	41.96	1.000	400	100	0.171	400
18	1.2.3.7.8-TCDD	1.19e6	0.79	NO	1.1563	1.000	26.94	1.000	163	103	0.114	163
19	1.2.3.1.2.7.8-HxCDD	1.11e6	0.84	NO	0.0490	1.000	31.00	1.210	103	103	0.170	103
20	1.2.3.1.2.4.7.8-HxCDD	7.39e6	1.25	NO	0.0790	1.000	34.06	1.014	103	103	0.172	103
21	1.2.3.1.2.3.7.8-HxCDD	1.02e6	1.25	NO	1.0107	1.000	34.96	1.017	104	104	0.171	104



#	Name	Resp	RA	ny	RRF	wtdwt	RT	RRT	Coef	%Rec	DL	104PC
1	1,2,3,6,7-CDD	1.56e6	0.76	NO	0.8863	1.000	26.56	1.091	41.7	102	0.124	41.4
2	1,2,3,7,8-HxCDD	2.36e6	0.83	NO	0.8051	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,7,8-HxCDF	1.67e6	1.22	NO	1.0334	1.000	34.55	1.001	204	102	0.115	204
4	1,2,3,7,8-HxCDF	1.92e6	1.22	NO	0.9923	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.70e6	1.20	NO	0.6868	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDD	1.25e6	1.62	NO	0.8830	1.000	38.50	1.000	211	105	0.123	211
7	COCDF	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.100	397
8	1,2,3,6,7-CDF	6.53e6	0.76	NO	0.7510	1.000	25.68	1.001	42.0	101	0.123	42.0
9	1,2,3,7,8-HxCDF	2.84e6	1.54	NO	0.8920	1.000	30.21	1.000	207	101	0.119	207
10	1,2,3,7,8-HxCDF	2.06e6	1.54	NO	0.9345	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,7,8-HxCDF	1.67e6	1.16	NO	0.8845	1.000	33.95	1.000	202	104	0.221	202
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8292	1.000	34.12	1.001	206	103	0.203	206
13	1,2,3,6,7,8-HxCDF	2.00e6	1.19	NO	0.9241	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8157	1.000	35.42	1.001	203	104	0.313	203
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0126	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	3.54e6	0.87	NO	0.8095	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8,9-HxCDF	1.56e6	0.75	NO	1.1587	1.000	28.54	1.025	103	103	0.164	
19	1,2,3,7,8,9-HxCDF	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.139	
20	1,2,3,7,8-HxCDF	7.89e6	1.28	NO	0.7798	1.000	34.96	1.014	103	103	0.172	
21	1,2,3,7,8,9-HxCDF	1.03e6	1.35	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



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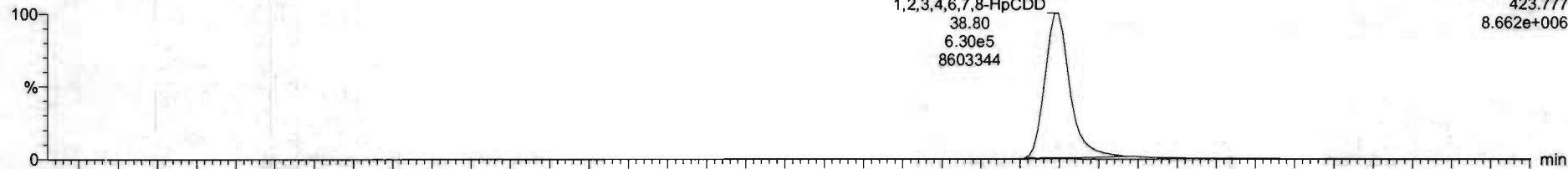
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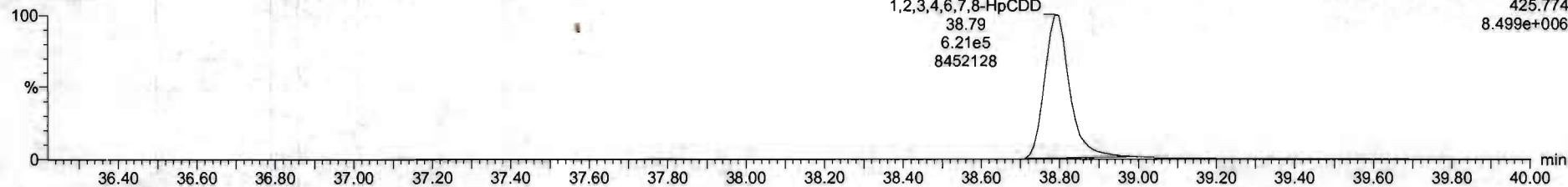
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1,2,3,4,6,7,8-HpCDD

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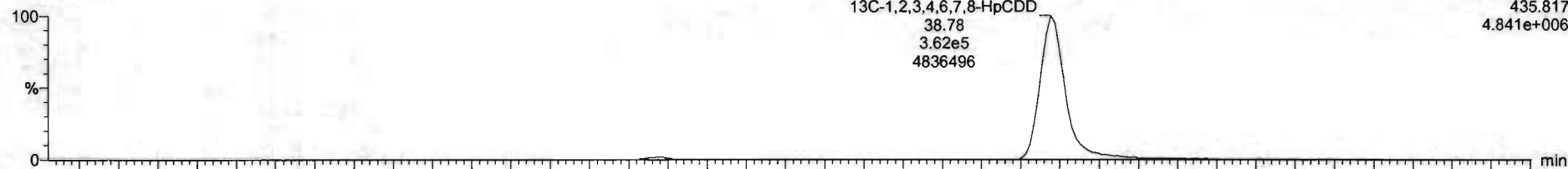


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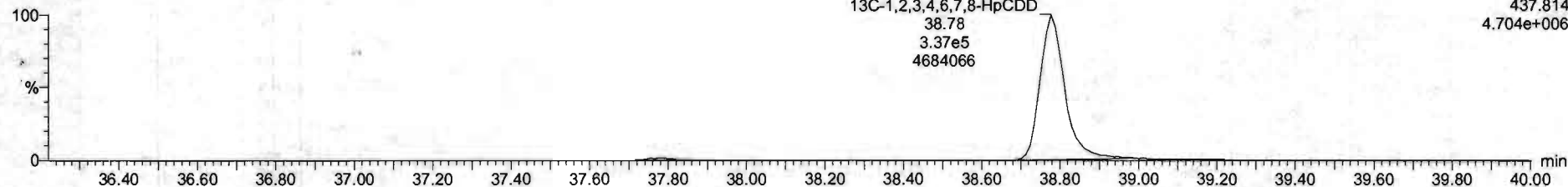


13C-1,2,3,4,6,7,8-HpCDD

200528R2_4



200528R2_4



#	Name	Resp	RA	n/y	RRF	Intval	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.50e6	0.76	NO	0.8983	1.000	26.96	1.001	41.2	103	0.124	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.83	NO	0.8081	1.000	31.51	1.000	205	102	0.5837	205
3	1,2,3,4,7,8-HxCDD	1.67e6	1.23	NO	1.0334	1.000	34.80	1.001	204	102	0.115	204
4	1,2,3,6,7,8-HxCDD	1.92e6	1.22	NO	0.8927	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.76e6	1.26	NO	0.8665	1.000	35.25	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDD	1.25e6	1.02	NO	0.8839	1.000	36.80	1.000	211	105	0.210	211
7	CDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	2,3,7,8-TCDF	6.52e6	0.76	NO	0.7510	1.000	26.68	1.001	42.0	107	0.123	42.0
9	1,2,3,7,8-HxCDF	3.94e6	1.54	NO	0.8325	1.000	30.21	1.000	203	101	0.118	203
10	1,2,3,4,7,8-PeCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.221	208
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8062	1.000	34.12	1.001	208	103	0.203	208
13	1,2,3,4,7,8,9-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.313	208
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	38.32	1.000	214	107	0.227	214
17	CDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	103	103	0.164	
19	1,2,3,4,6,7,8-HpCDF	1.11e6	0.84	NO	0.8460	1.000	31.30	1.216	103	103	0.139	
20	1,2,3,4,7,8,9-HxCDF	7.98e6	1.28	NO	0.7790	1.000	34.80	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HpCDF	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.131	



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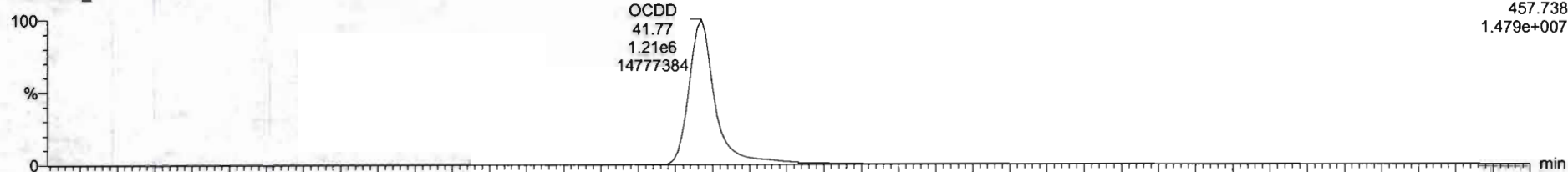
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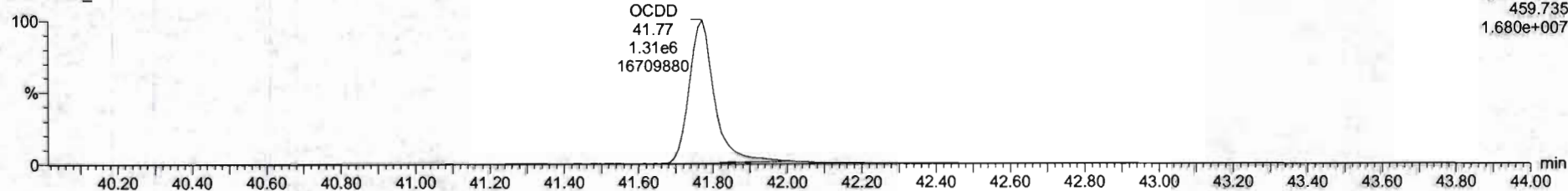
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OCDD

200528R2_4

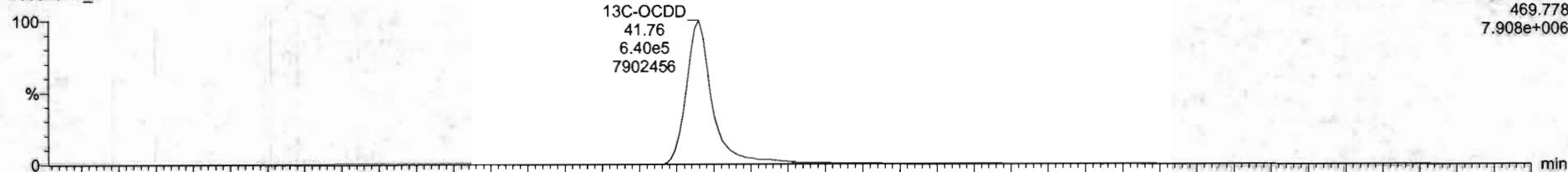


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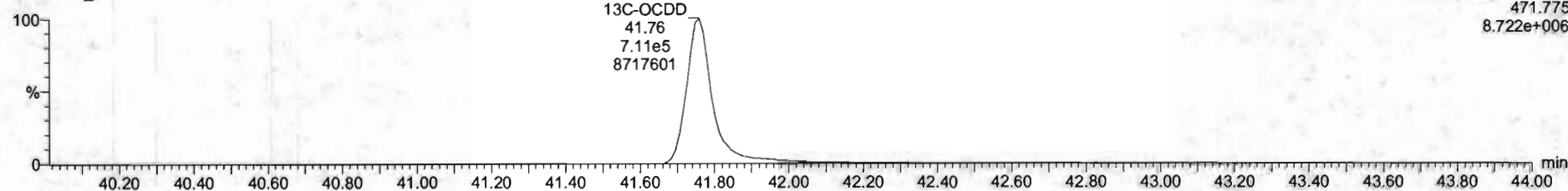


13C-OCDD

200528R2_4



200528R2_4



Sl	Name	Resp	RA	inj	RRF	wt/vol	RT	NRT	Conc	%Rec	DL	SI/PC
1	2.3.7.6-TCDD	3.56e5	0.76	NO	0.8883	1.000	28.56	1.001	41.2	101	0.134	41.2
2	1.2.3.7.5-PeCDD	2.06e6	0.63	NO	0.9051	1.000	31.01	1.000	205	102	0.6837	205
3	1.2.3.4.7.8-HxCD	1.07e6	1.23	NO	1.0334	1.000	34.80	1.001	284	102	0.115	284
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8923	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.70e6	1.20	NO	0.8669	1.000	35.26	1.000	210	105	0.133	210
6	1.2.3.4.7.8.9-HpCDD	1.25e6	1.02	NO	0.8639	1.000	36.80	1.000	211	105	0.115	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	307	99.4	0.192	307
8	2.3.7.6-TCDF	6.52e5	0.76	NO	0.7510	1.000	28.65	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.8905	1.000	30.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	1.00e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.100	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8545	1.000	33.99	1.000	205	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8862	1.000	34.12	1.001	206	103	0.205	206
13	1.2.3.4.7.8-HxCDF	2.00e6	1.19	NO	0.9383	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.7.8.9-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.55	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.90	NO	1.0126	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2.3.7.6-TCDD	1.58e6	0.75	NO	1.1583	1.000	28.54	1.025	103	103	0.184	
19	13C-1.2.3.7.8-PeCDD	1.11e6	0.64	NO	0.8490	1.000	31.58	1.216	103	103	0.136	
20	13C-1.2.3.4.7.8-HxCDD	7.88e5	1.28	NO	0.7790	1.000	34.86	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.131	



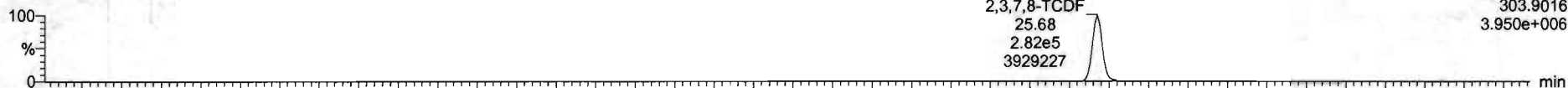
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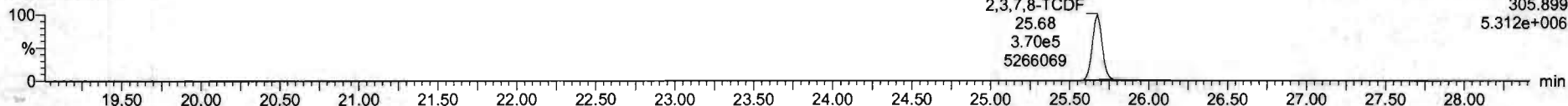
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2,3,7,8-TCDF

200528R2_4

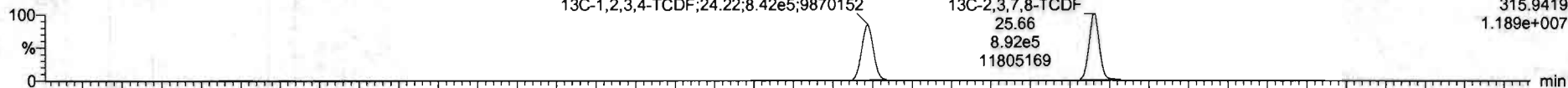


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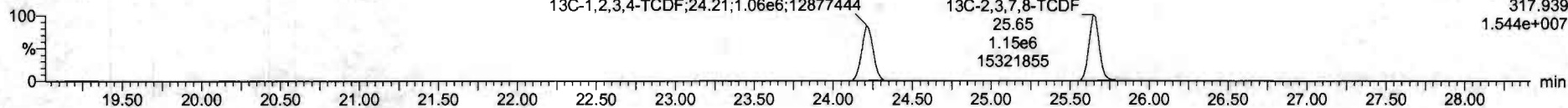


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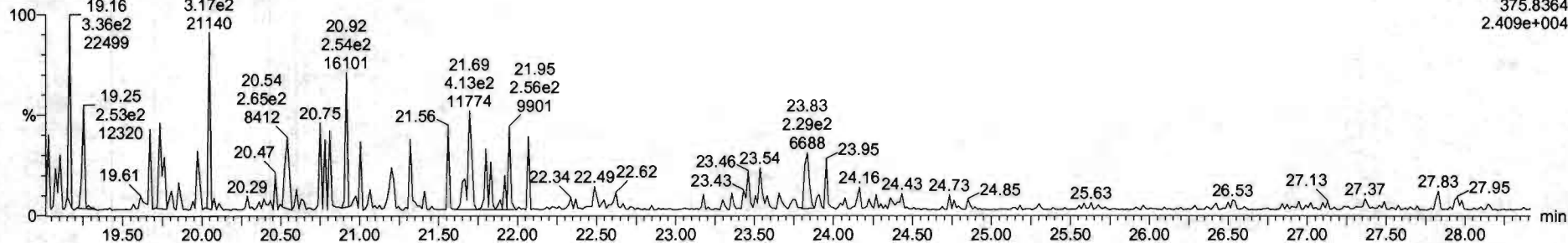


200528R2_4



DPE1

200528R2_4

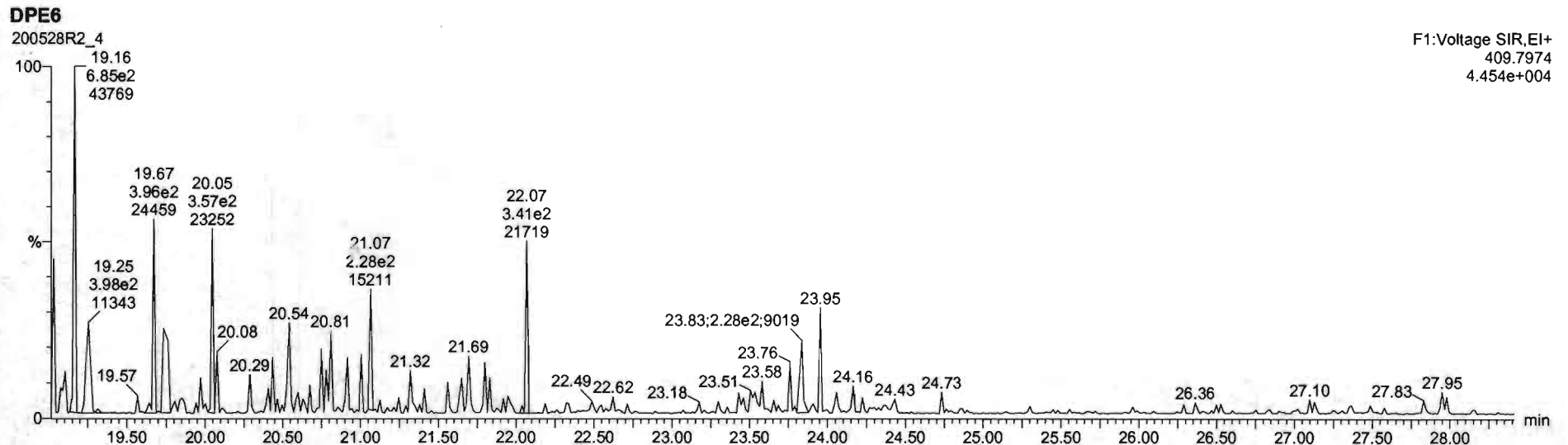
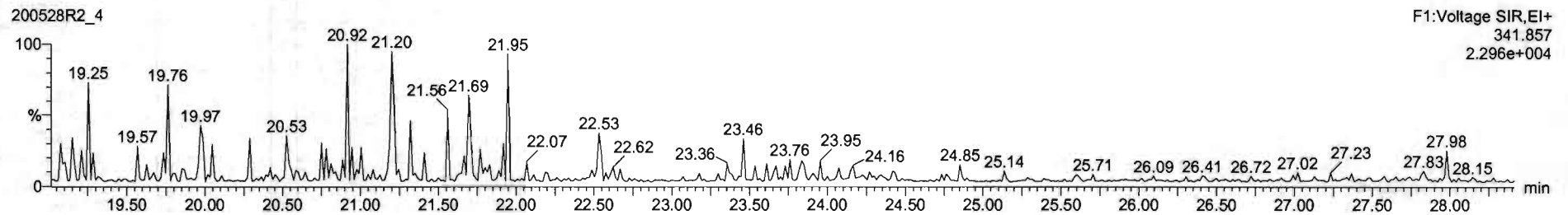
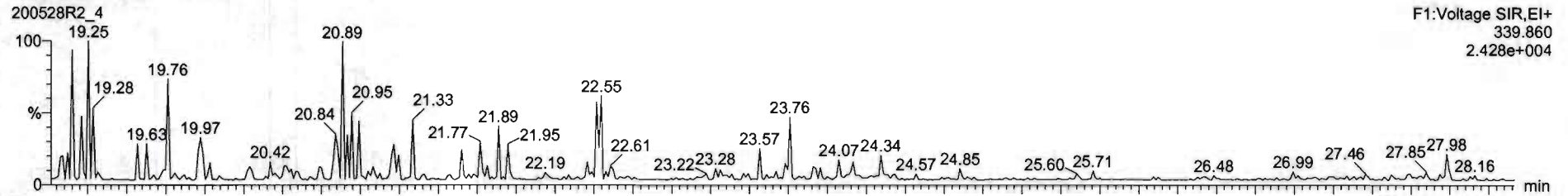


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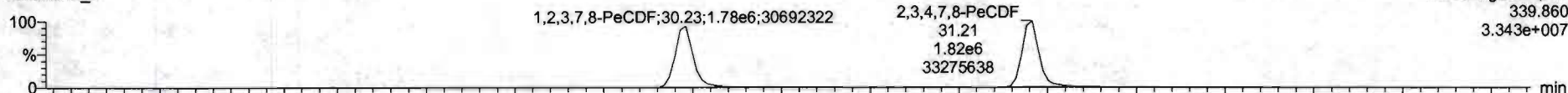
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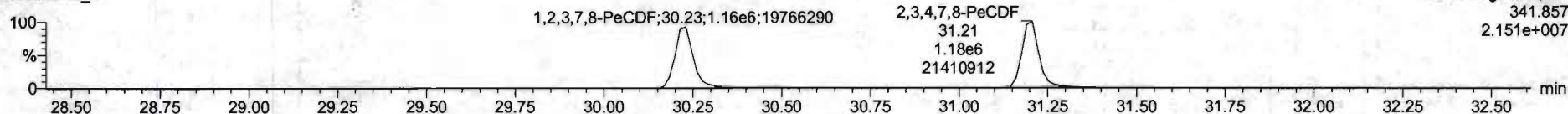
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1,2,3,7,8-PeCDF

200528R2_4

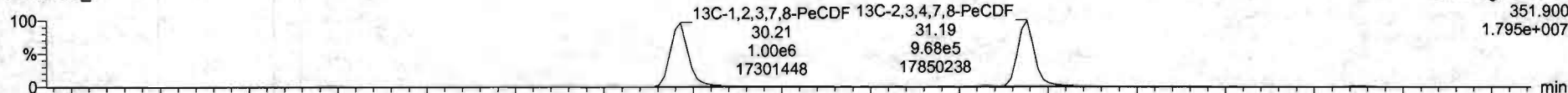


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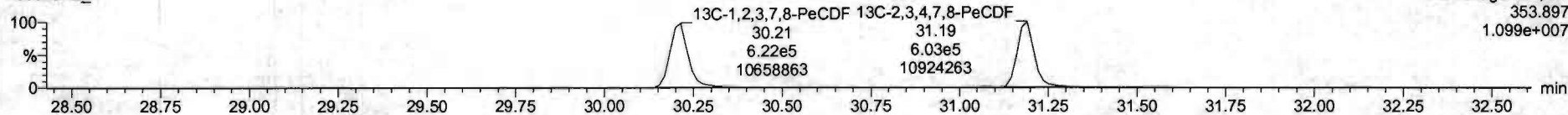


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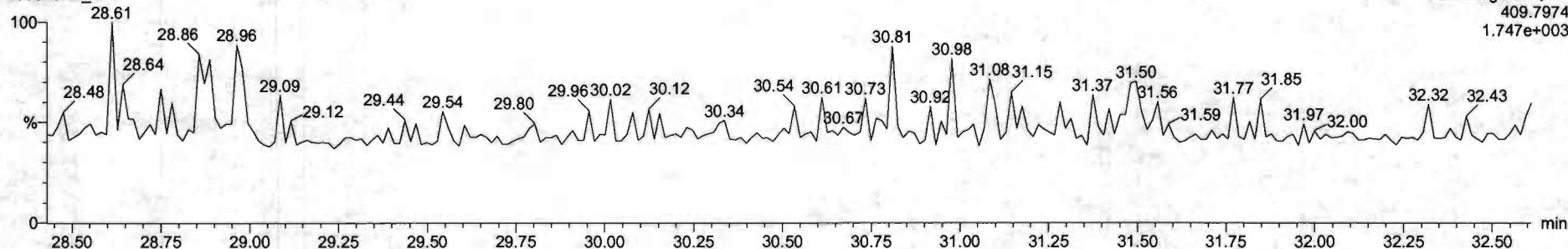


200528R2_4



DPE2

200528R2_4



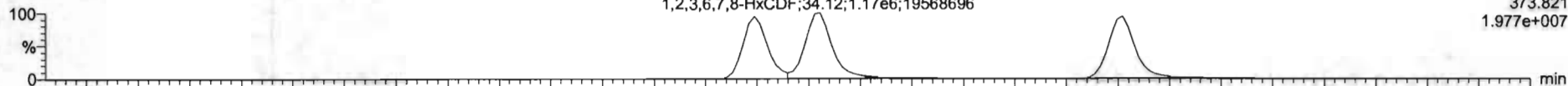
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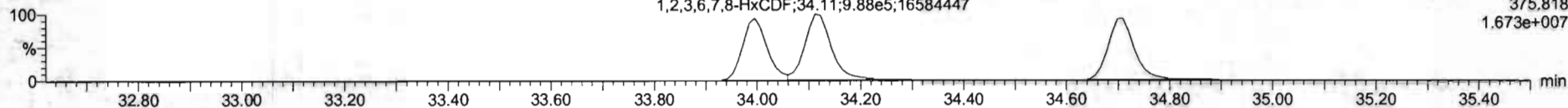
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1,2,3,4,7,8-HxCDF

200528R2_4

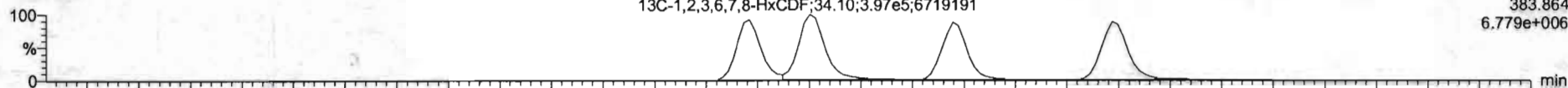


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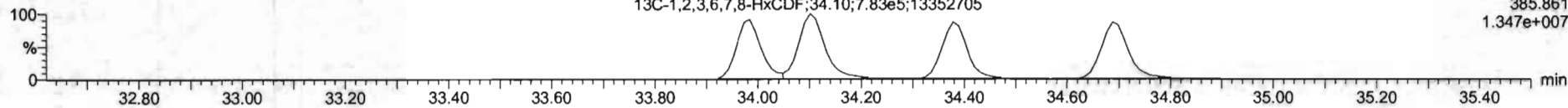


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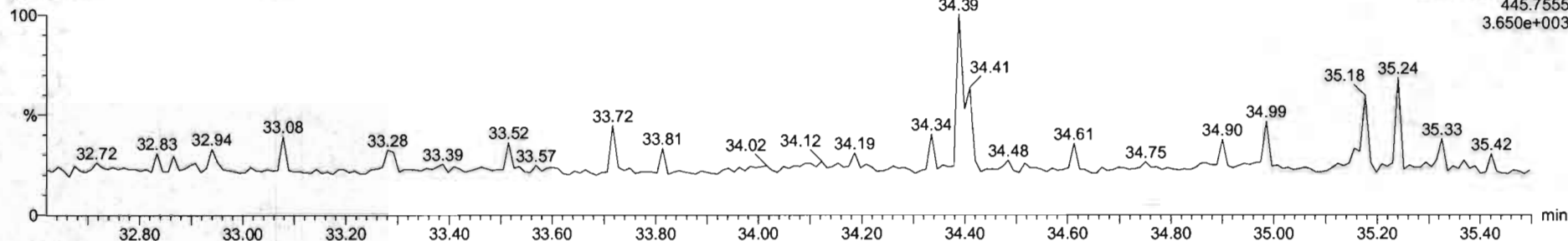


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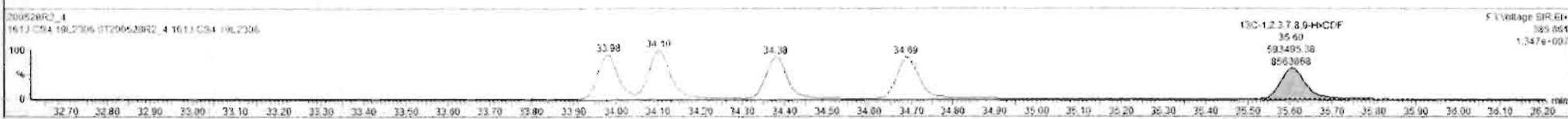
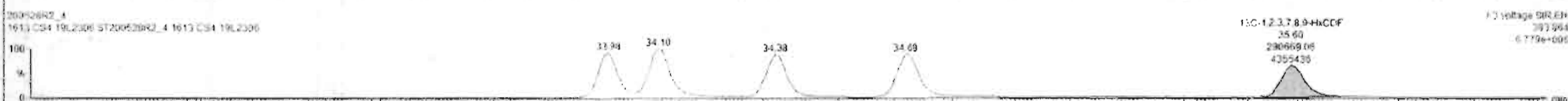


DPE3

200528R2_4



#	Name	Resp	RA	ntf	RRF	wf/wr	RT	RRT	Conc	%Rec	DL	ERFC
1	1.2.3.7.8-1CDF	3.56e5	0.78	NO	0.2883	1.000	26.96	1.001	41.2	103	0.124	11.2
2	1.2.3.7.8-HxCDD	2.06e6	0.83	NO	0.9081	1.000	31.91	1.000	285	100	0.0837	209
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0324	1.000	34.88	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8523	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.78e6	1.20	NO	0.8865	1.000	35.26	1.000	240	105	0.133	240
6	1.2.3.4.7.8.9-HxCDD	1.25e6	1.02	NO	0.8639	1.000	36.86	1.000	211	106	0.128	211
7	CDD	2.45e6	0.87	NO	0.9136	1.000	41.27	1.000	397	99.4	0.182	397
8	1.2.3.7.8-1CDF	6.52e5	0.76	NO	0.7510	1.000	25.68	1.001	42.6	107	0.123	42.6
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	35.23	1.000	283	101	0.118	283
10	1.2.3.4.7.8-HxCDF	3.06e6	1.54	NO	0.9348	1.000	35.21	1.000	204	105	0.199	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.95	1.000	268	104	0.221	268
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8892	1.000	34.12	1.001	200	103	0.200	200
13	1.2.3.4.7.8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	102	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.28	NO	0.6787	1.000	25.62	1.001	290	104	0.313	290
15	1.2.3.4.7.8.9-HxCDF	1.43e6	0.99	NO	0.8714	1.000	37.39	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HxCDF	1.13e6	0.98	NO	1.0128	1.000	39.32	1.000	214	107	0.221	214
17	CDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	403	100	0.178	402
18	13C-1.2.3.7.8-1CDF	1.50e6	0.75	NO	1.1563	1.000	26.54	1.026	103	101	0.194	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.64	NO	0.6468	1.000	31.90	1.216	193	103	0.130	
20	13C-1.2.3.4.7.8-HxCDD	7.09e5	1.28	NO	0.7790	1.000	34.96	1.014	103	102	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.96	1.013	104	104	0.124	



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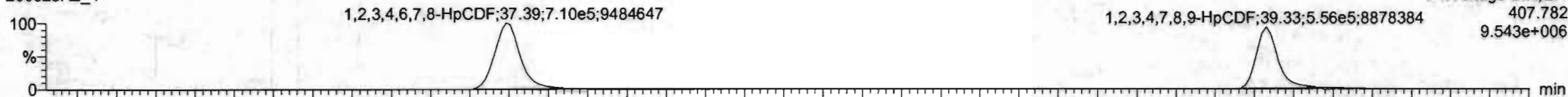
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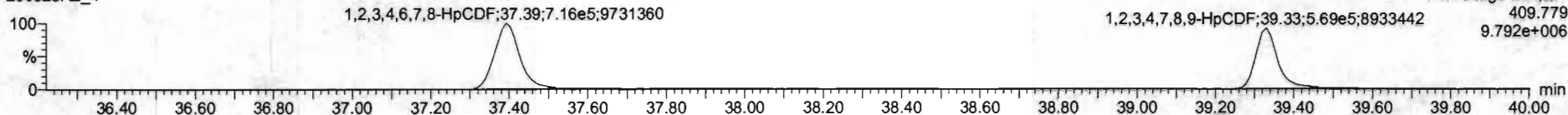
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1,2,3,4,6,7,8-HpCDF

200528R2_4

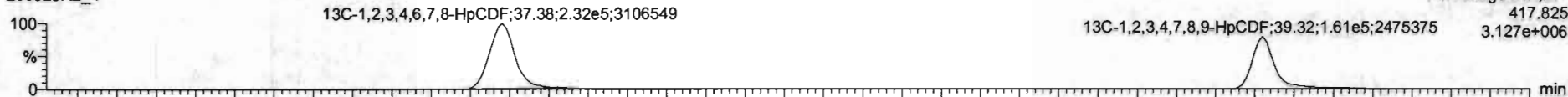


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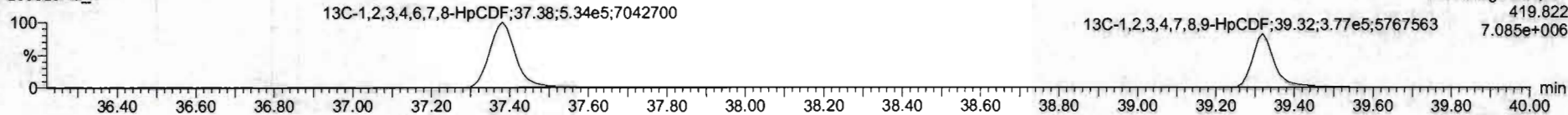


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200528R2_4

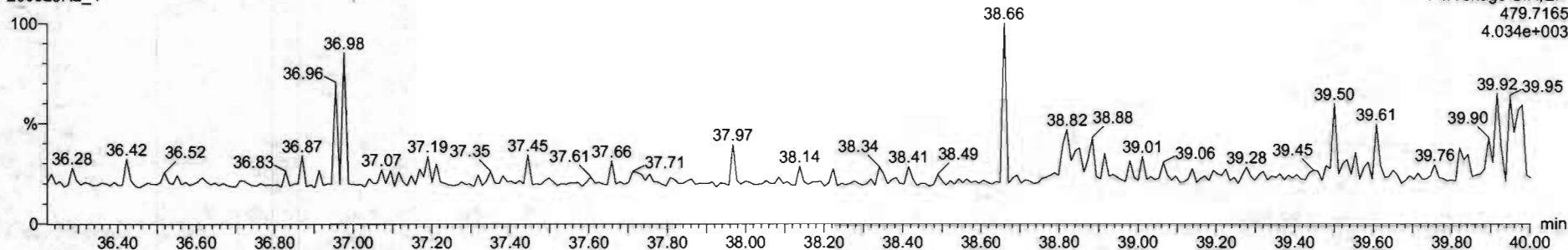


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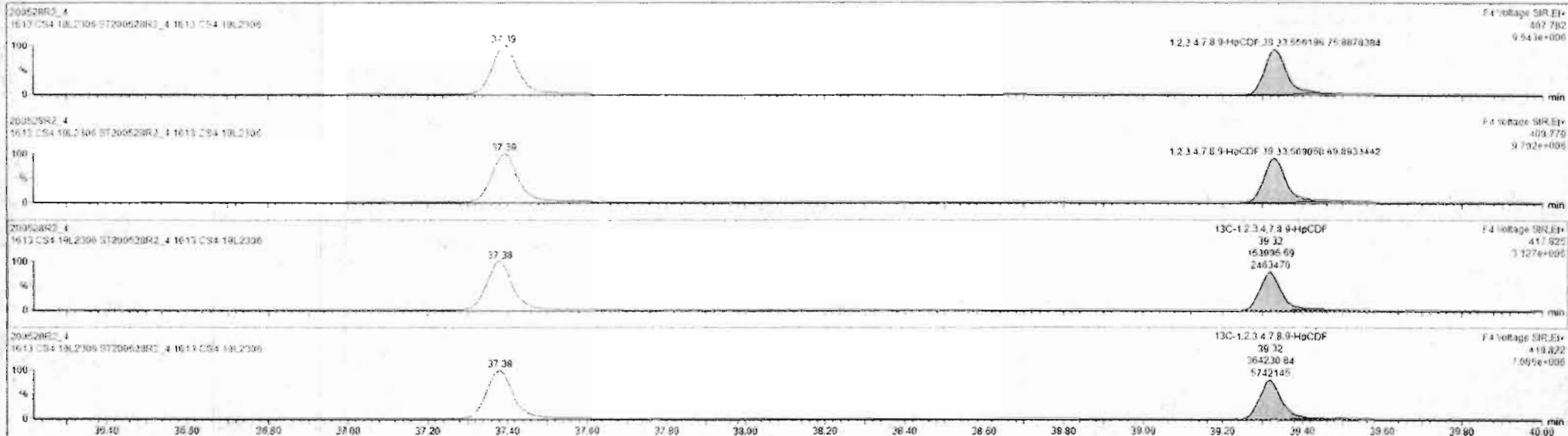


DPE4

200528R2_4



#	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.56e5	0.78	NO	0.8583	1.000	26.56	1.001	41.3	103	0.134	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.63	NO	0.9081	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,4,7,8-HxCDD	1.87e6	1.23	NO	1.0334	1.000	34.86	1.001	204	102	0.115	204
4	1,2,3,8,7,8-HxCDD	1.82e6	1.22	NO	0.8521	1.000	34.90	1.001	200	104	0.111	200
5	1,2,3,7,9,8-HxCDD	1.70e6	1.20	NO	0.8963	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HxCDD	1.25e6	1.02	NO	0.8633	1.000	36.90	1.000	211	105	0.219	211
7	OCDD	2.45e8	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.190	397
8	2,3,7,8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.66	1.001	42.6	107	0.123	42.2
9	1,2,3,7,9-PeCDF	2.54e5	1.54	NO	0.8925	1.000	30.23	1.000	203	101	0.110	203
10	1,2,3,4,7,8-HxCDF	3.00e5	1.54	NO	0.9345	1.000	31.21	1.000	204	107	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e5	1.18	NO	0.8845	1.000	33.99	1.000	203	104	0.221	206
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8867	1.000	34.12	1.001	206	103	0.203	206
13	2,3,4,6,7,8-HxCDF	2.06e6	1.19	NO	0.9341	1.000	34.71	1.001	207	107	0.219	207
14	1,2,3,7,9,8-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.213	208
15	1,2,3,4,6,7,9-HxCDF	1.43e6	0.95	NO	0.8734	1.000	37.35	1.000	215	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.15e6	0.60	NO	1.0128	1.000	39.33	1.000	214	107	5.327	214
17	OCDF	2.54e8	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2,3,7,8-TCDD	1.54e5	0.75	NO	1.1563	1.000	26.54	1.025	107	103	0.164	
19	13C-1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.138	
20	13C-1,2,3,4,7,8-HxCDD	7.89e5	1.26	NO	0.7790	1.000	34.96	1.014	103	103	0.132	
21	13C-1,2,3,6,7,8-HxCDD	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.121	



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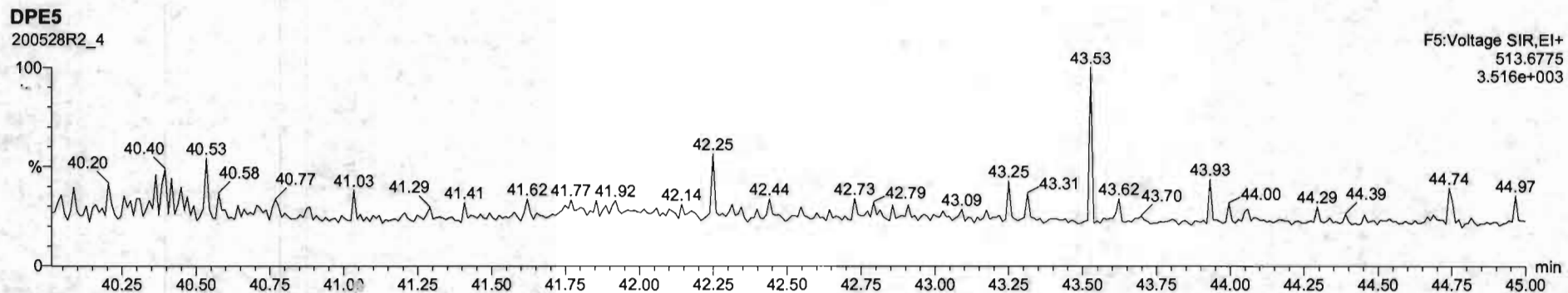
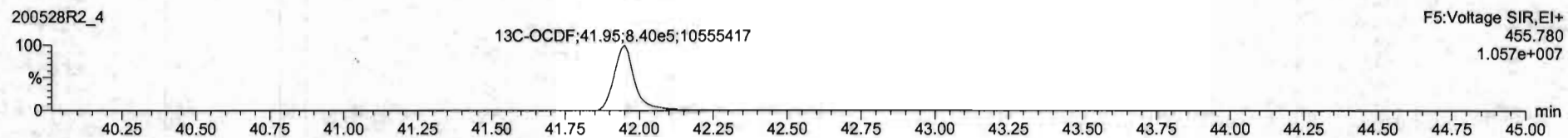
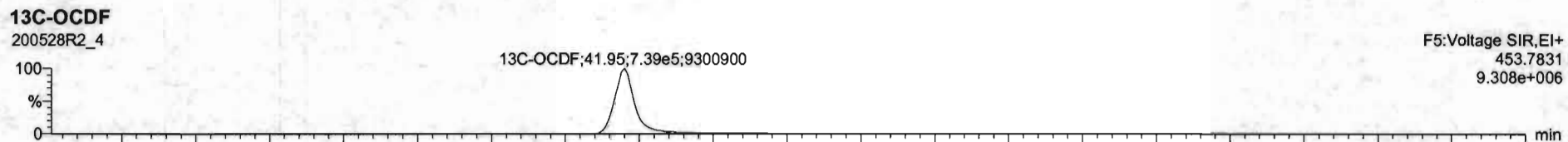
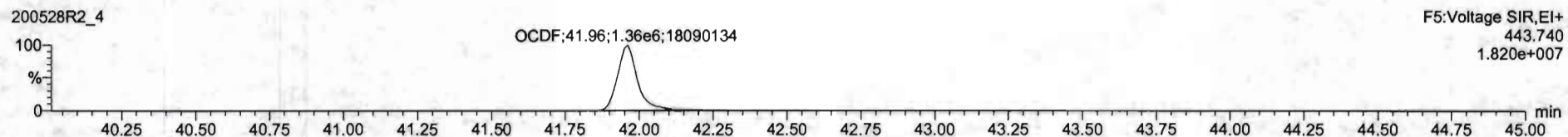
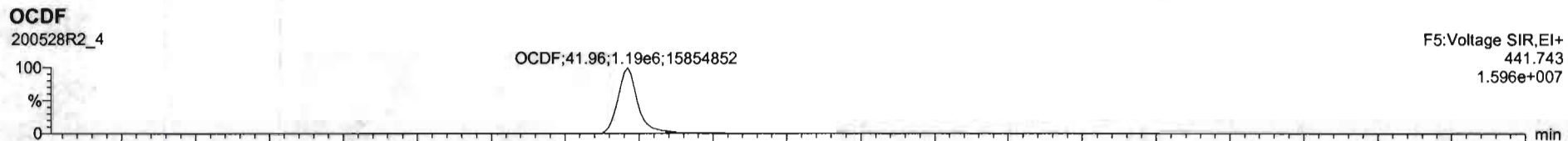
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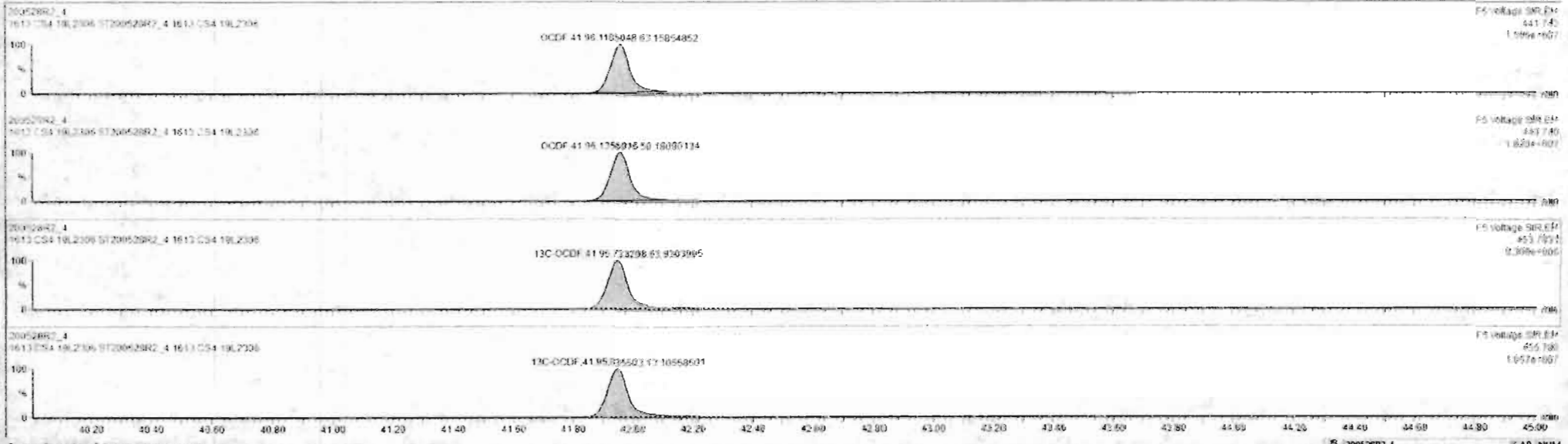
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1	2.3.1.6-TCDD	1.50e5	0.78	NO	0.8863	1.000	26.56	1.001	41.2	101	0.124	41.2
2	1.2.3.7.5-PeCDD	2.06e6	0.83	NO	0.9081	1.000	31.51	1.000	205	102	0.0827	205
3	1.2.3.4.7.8-HxCDD	1.07e6	1.23	NO	1.0334	1.000	34.85	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDF	1.92e6	1.22	NO	0.9521	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.76e6	1.20	NO	0.9265	1.000	35.26	1.000	210	105	0.123	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.9633	1.000	36.40	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.102	397
8	2.3.7.6-TCDF	0.52e5	0.76	NO	0.7510	1.000	25.05	1.001	42.0	107	0.127	42.0
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.8925	1.000	36.21	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	2.00e6	1.54	NO	0.9349	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8945	1.000	32.99	1.000	208	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8952	1.000	34.12	1.001	206	103	0.203	206
13	2.3.4.6.7.8-HxCDF	2.05e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.20	NO	0.8757	1.000	35.42	1.001	205	104	0.213	205
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.96	NO	0.8734	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.93	NO	1.0120	1.000	39.32	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8055	1.000	41.96	1.000	402	100	0.171	402
18	1.2.3.2.3.7.8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	102	101	0.164	
19	1.2.3.1.2.3.7.8-PeCDD	0.11e6	0.84	NO	0.8496	1.000	31.50	1.216	103	103	0.130	
20	1.2.3.1.2.3.4.7.8-HpCDD	7.89e6	1.20	NO	0.7750	1.000	34.96	1.214	103	103	0.172	
21	1.2.3.1.2.3.6.7.8-HpCDD	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



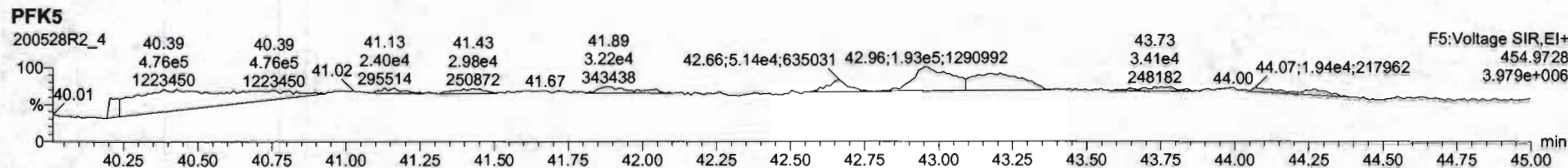
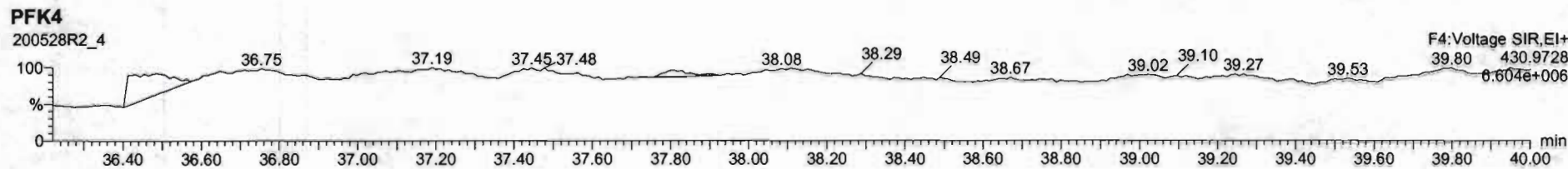
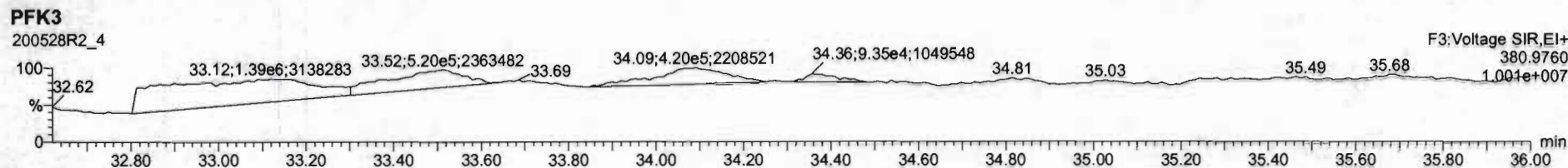
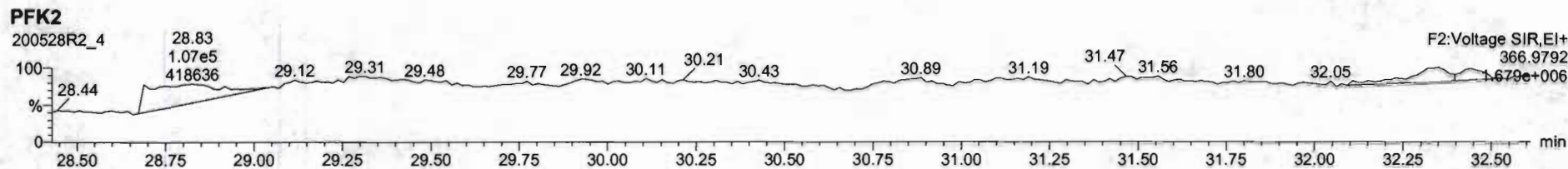
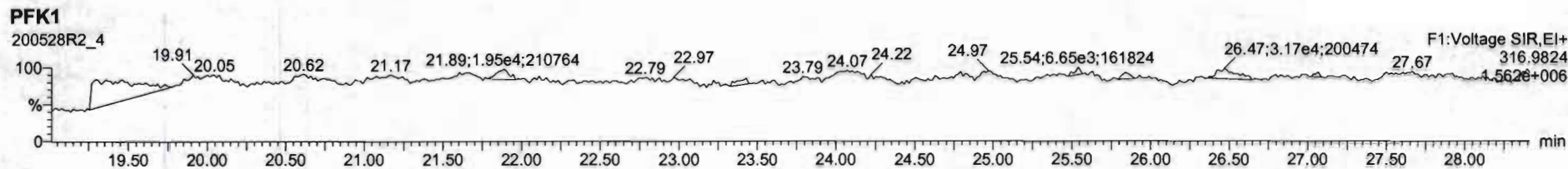
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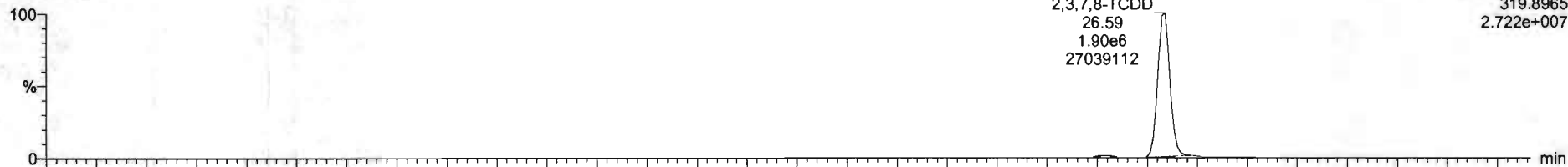
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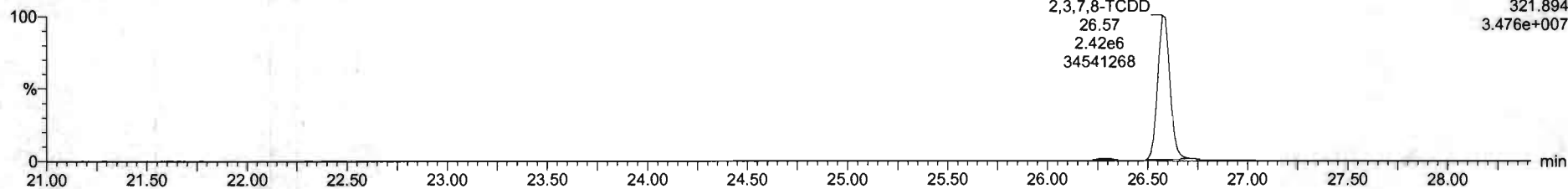
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2,3,7,8-TCDD

200528R2_5

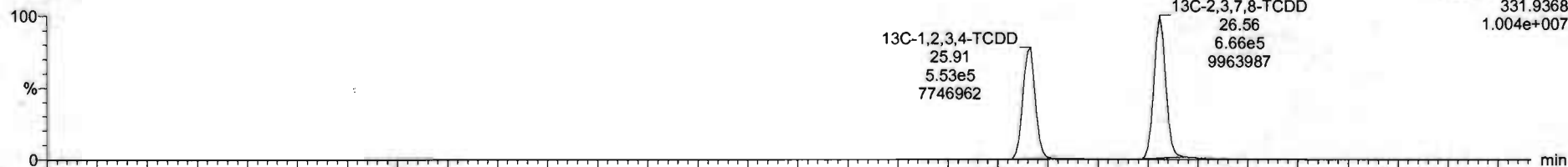


200528R2_5

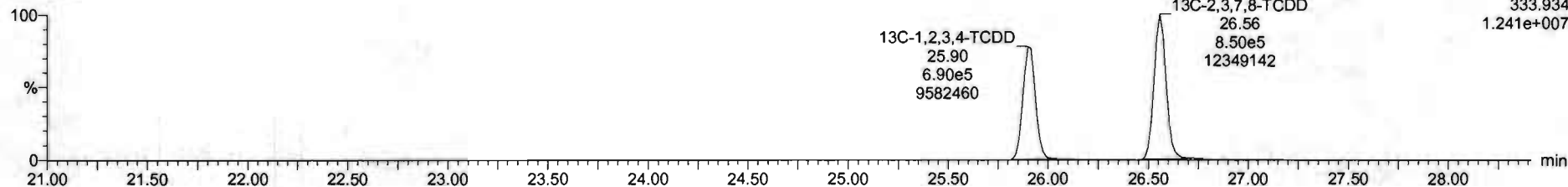


13C-2,3,7,8-TCDD

200528R2_5



200528R2_5



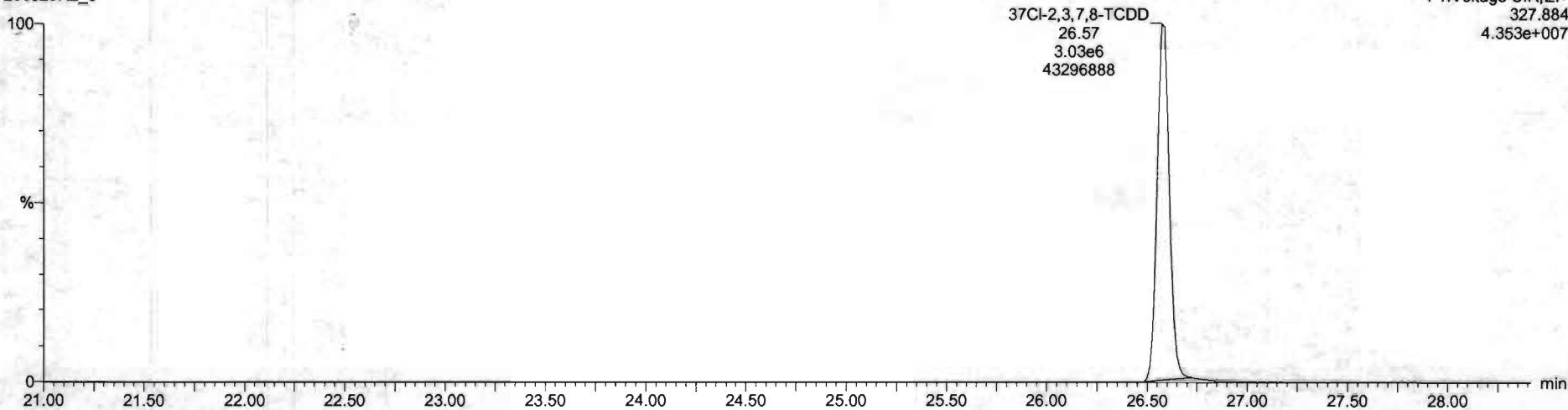
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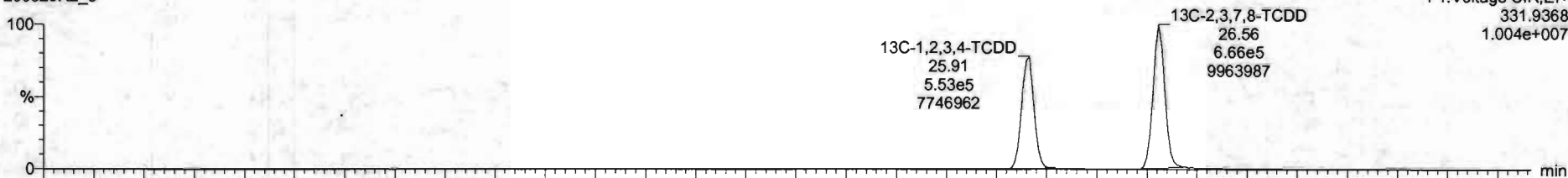
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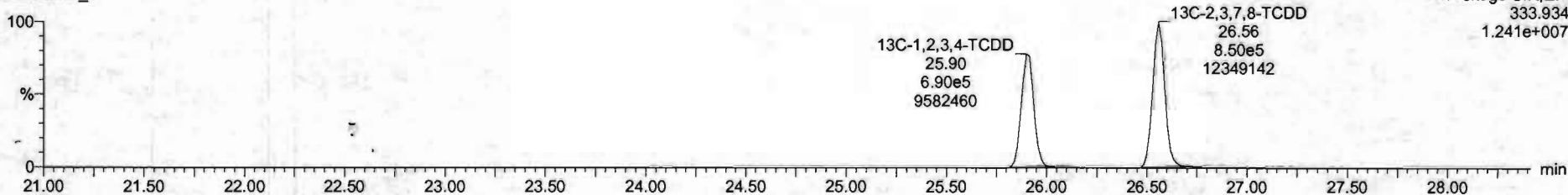


13C-1,2,3,4-TCDD

200528R2_5



200528R2_5



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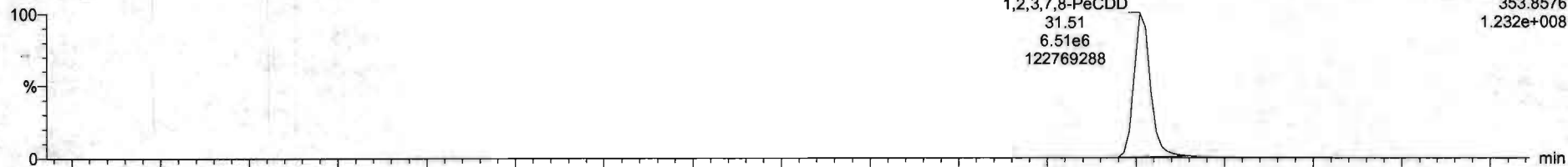
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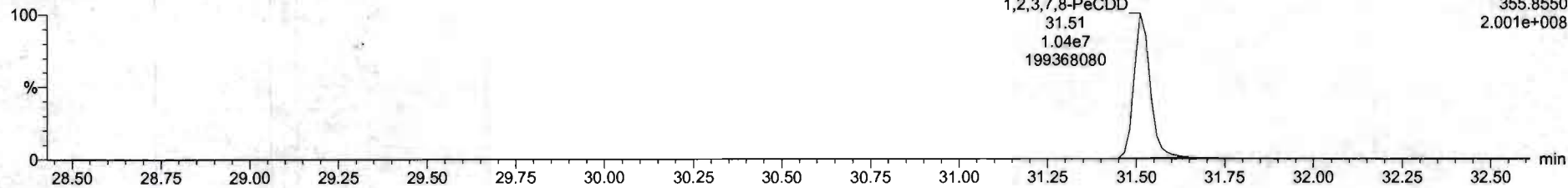
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1,2,3,7,8-PeCDD

200528R2_5

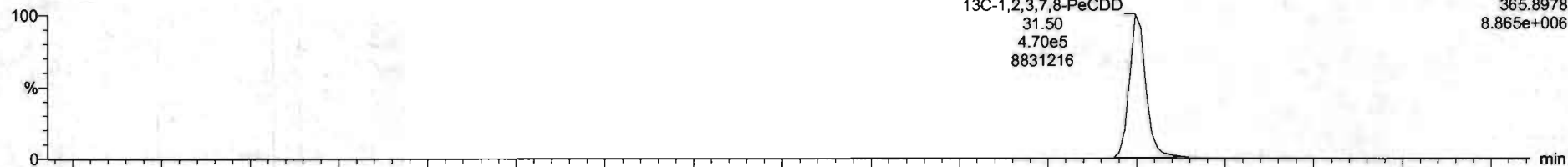


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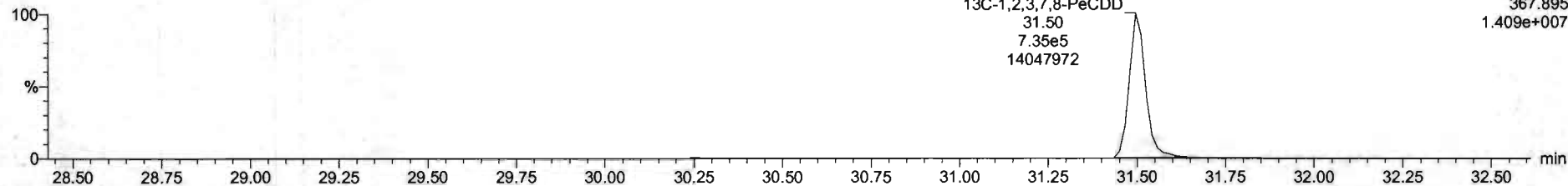


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200528R2_5



200528R2_5



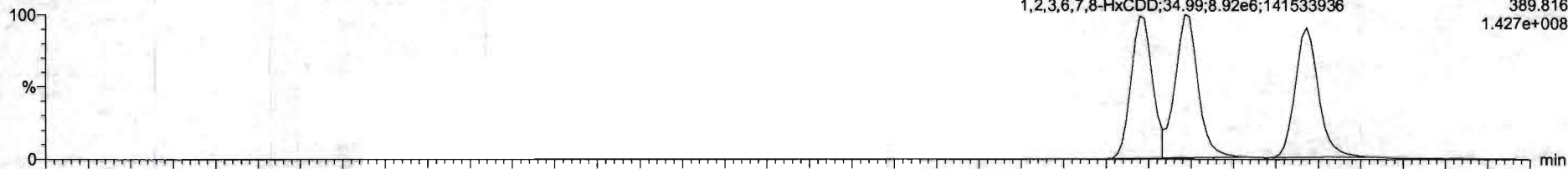
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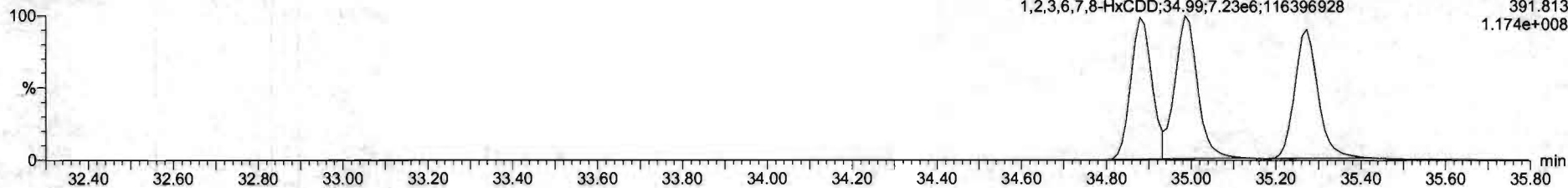
1,2,3,4,7,8-HxCDD

200528R2_5



F3:Voltage SIR,EI+
389.816
1.427e+008

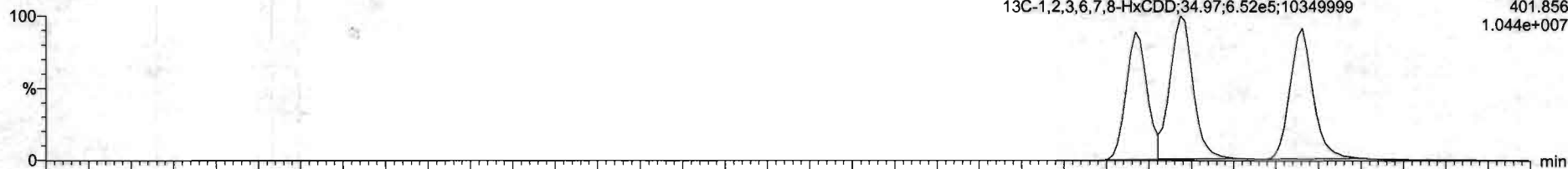
200528R2_5



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391.813
1.174e+008

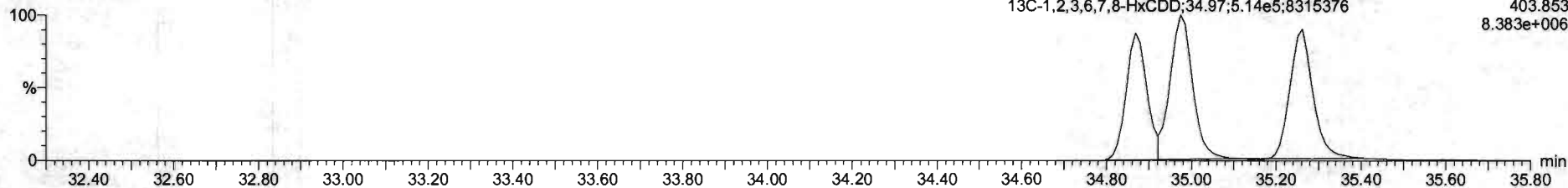
13C-1,2,3,4,7,8-HxCDD

200528R2_5



F3:Voltage SIR,EI+
401.856
1.044e+007

200528R2_5



F3:Voltage SIR,EI+
403.853
8.383e+006

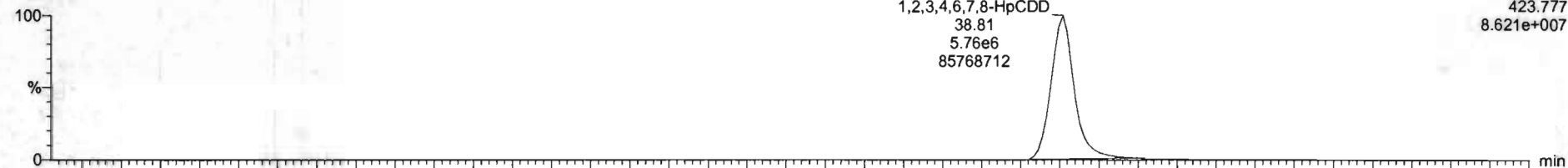
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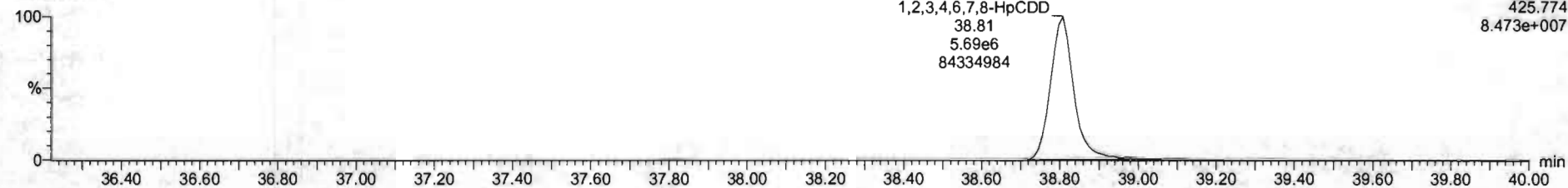
1,2,3,4,6,7,8-HpCDD

200528R2_5



F4:Voltage SIR,EI+
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8.621e+007

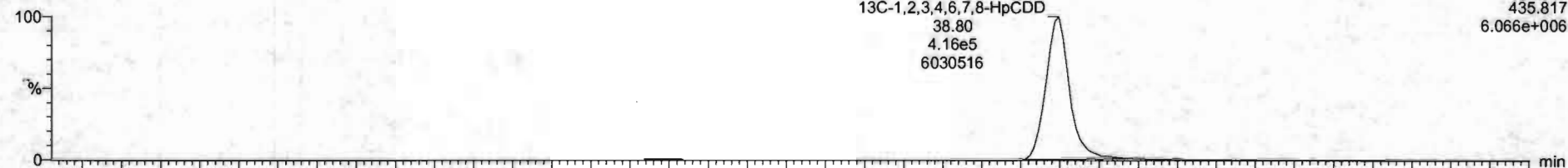
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425.774
8.473e+007

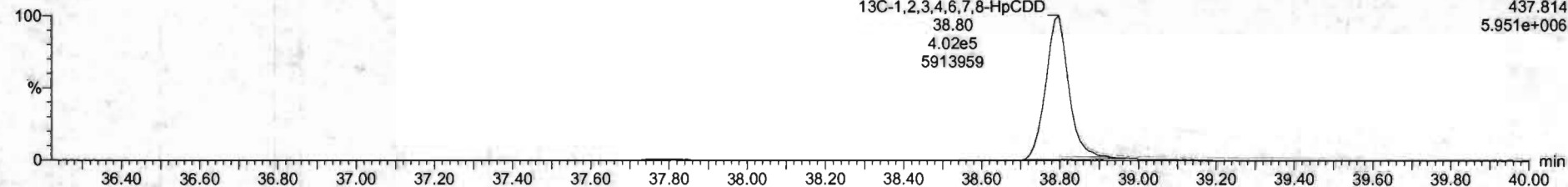
13C-1,2,3,4,6,7,8-HpCDD

200528R2_5



F4:Voltage SIR,EI+
435.817
6.066e+006

200528R2_5



F4:Voltage SIR,EI+
437.814
5.951e+006

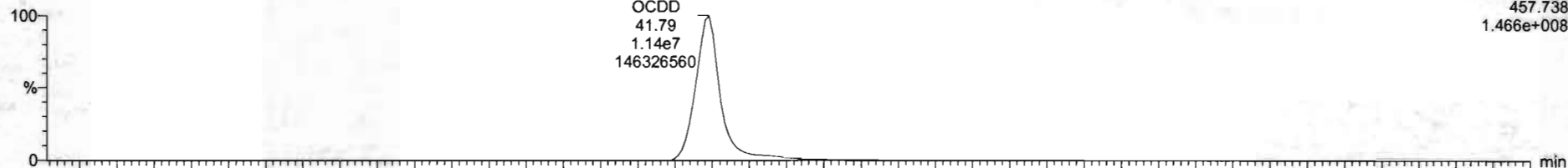
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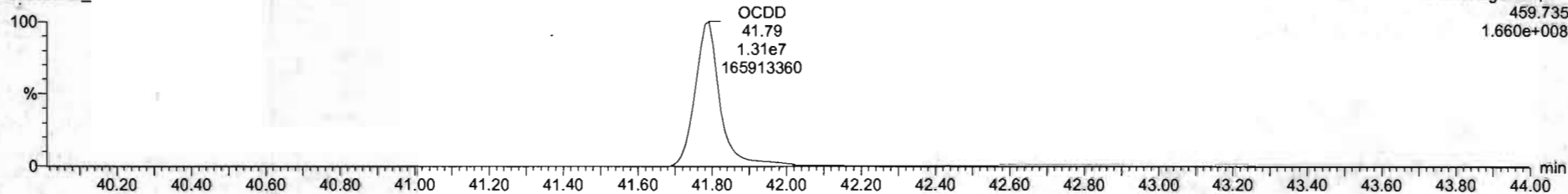
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OCDD

200528R2_5

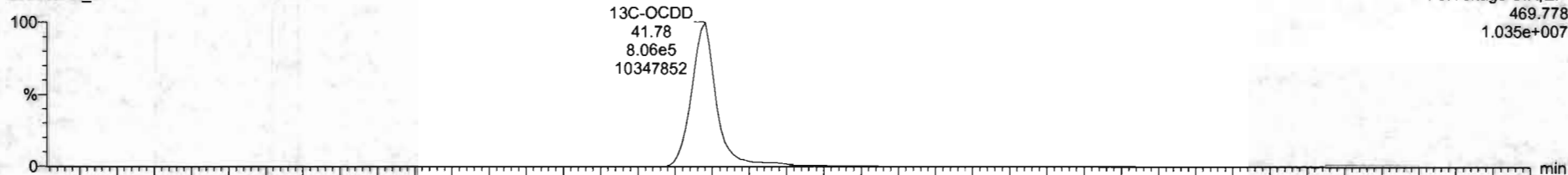


200528R2_5

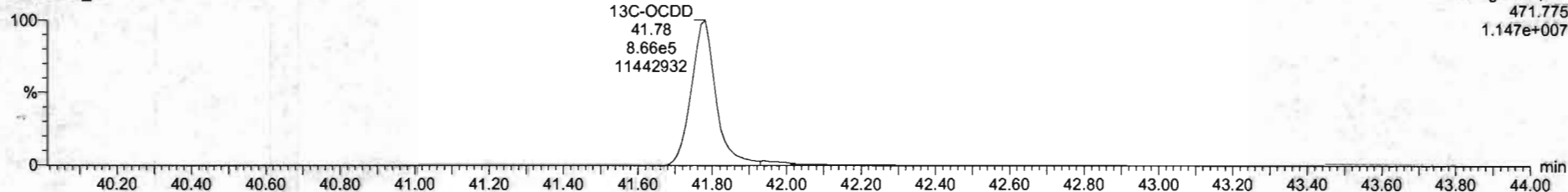


13C-OCDD

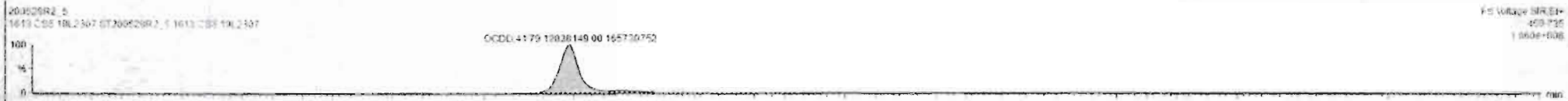
200528R2_5



200528R2_5



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2	1.2.3.7.8-PCDD	1.58e7	0.63	NO	0.9051	1.000	31.61	1.000	1550	103	0.124	1550
3	1.2.3.4.7.8-HxCDD	1.47e7	1.23	NO	1.0234	1.000	34.08	1.000	1520	101	0.130	1520
4	1.2.3.6.7.8-HxCDD	1.61e7	1.21	NO	0.9523	1.000	34.99	1.000	1550	103	0.142	1550
5	1.2.3.7.8.9-HxCDD	1.47e7	1.22	NO	0.9265	1.000	35.27	1.000	1570	104	0.107	1570
6	1.2.3.4.6.7.8-HpCDD	1.15e7	1.01	NO	0.8639	1.000	36.61	1.000	1620	105	0.161	1620
7	OCDD	2.37e7	0.84	NO	0.9138	1.000	41.79	1.000	3100	103	0.379	3100
8	2.3.7.8-TCDF	0.00e0	0.75	NO	0.7510	1.000	25.65	1.001	320	105	0.0600	320
9	1.2.3.7.8-PeCDF	2.38e7	1.14	NO	0.8925	1.000	30.23	1.000	1570	101	0.231	1570
10	2.3.4.7.8-PeCDF	0.40e7	1.53	NO	0.9348	1.000	31.21	1.000	1550	101	0.213	1550
11	1.2.3.4.7.8-HxCDF	1.61e7	1.19	NO	0.8644	1.000	34.01	1.000	1590	106	0.103	1590
12	1.2.3.6.7.8-HxCDF	1.56e7	1.19	NO	0.8092	1.000	34.72	1.000	1530	101	0.0927	1530
13	2.3.4.6.7.8-HxCDF	1.72e7	1.19	NO	0.9341	1.000	34.72	1.001	1560	104	0.152	1560
14	1.2.3.7.8.9-HxCDF	1.49e7	1.26	NO	0.6707	1.000	35.63	1.000	1560	106	0.145	1560
15	1.2.3.4.6.7.8-HpCDF	1.28e7	1.09	NO	0.8734	1.000	37.40	1.000	1560	104	0.303	1560
16	1.2.3.4.7.8.9-HpCDF	1.05e7	1.00	NO	1.0172	1.000	38.34	1.000	1620	103	0.215	1620
17	OCDF	2.38e7	0.85	NO	0.8085	1.000	41.95	1.000	3090	101	0.250	3090
18	13C-2.3.7.8-TCDD	1.52e6	0.76	NO	1.1583	1.000	26.96	1.026	100	106	0.0720	
19	13C-1.2.3.7.8-PCDD	1.21e6	0.64	NO	0.8499	1.000	31.58	1.215	114	114	0.130	
20	13C-1.2.3.4.7.8-PeCDD	6.34e5	1.28	NO	0.7750	1.000	34.97	1.014	110	110	0.191	
21	13C-1.2.3.6.7.8-HpCDD	1.17e6	1.27	NO	1.0167	1.000	34.97	1.017	113	113	0.146	



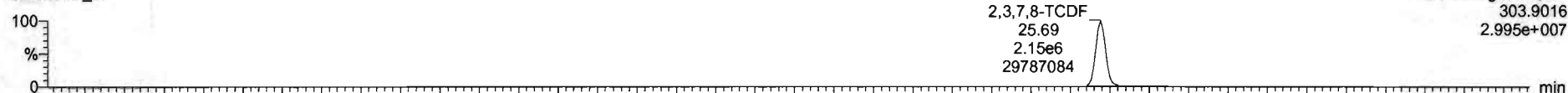
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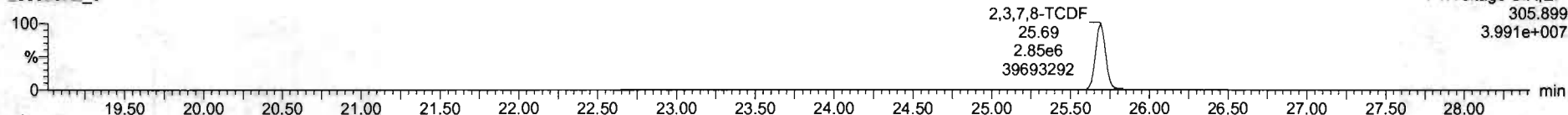
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2,3,7,8-TCDF

200528R2_5

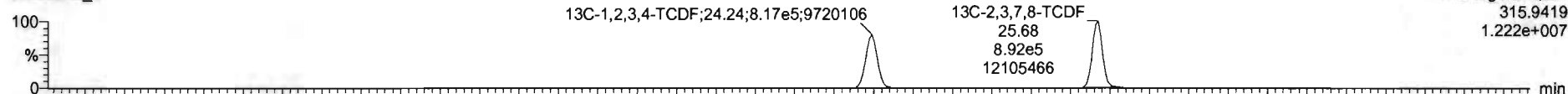


200528R2_5

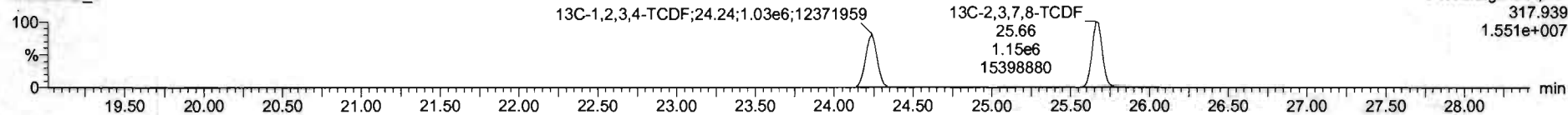


13C-2,3,7,8-TCDF

200528R2_5

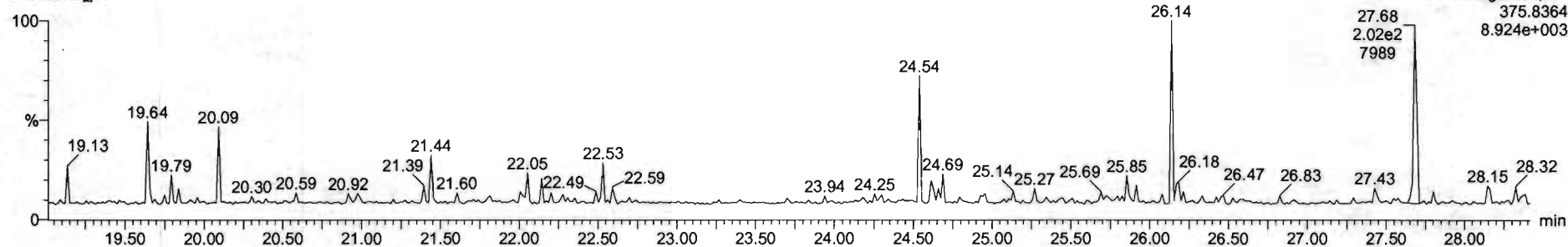


200528R2_5



DPE1

200528R2_5



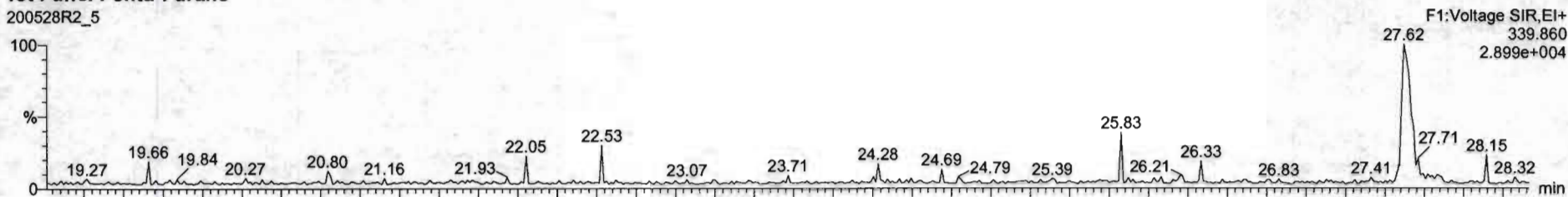
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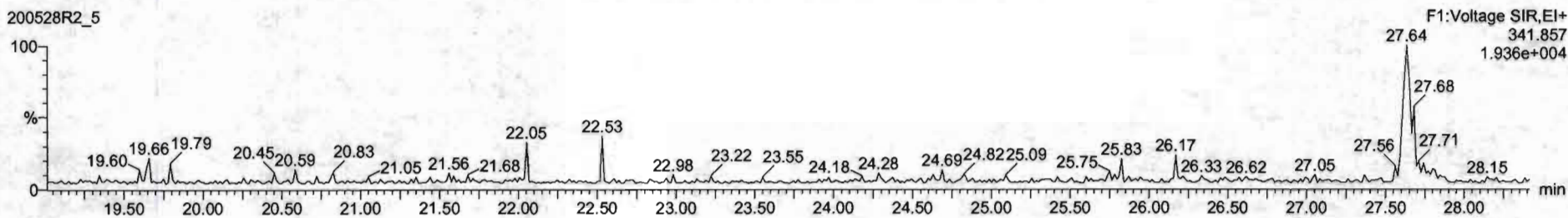
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1st Func. Penta-Furans

200528R2_5

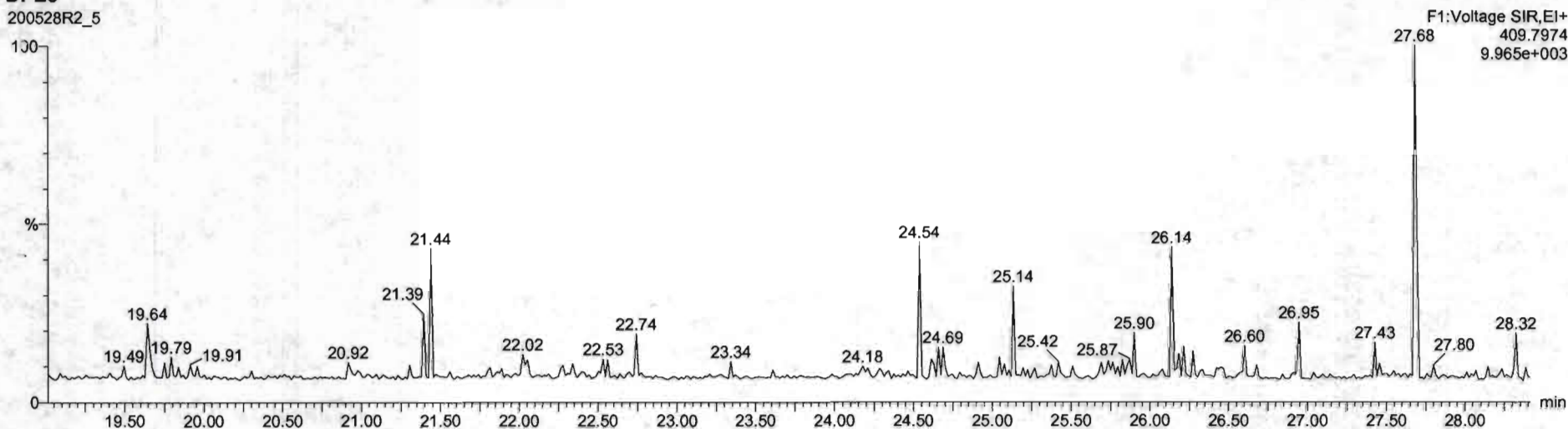


200528R2_5



DPE6

200528R2_5



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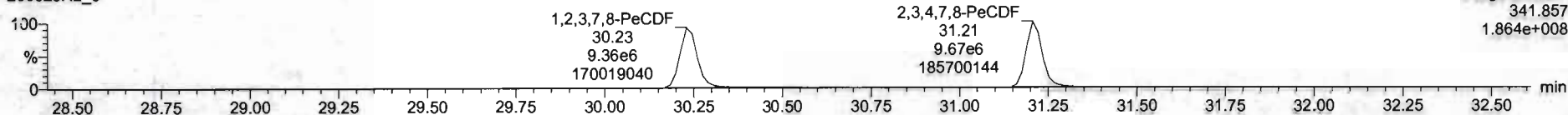
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1,2,3,7,8-PeCDF

200528R2_5



200528R2_5

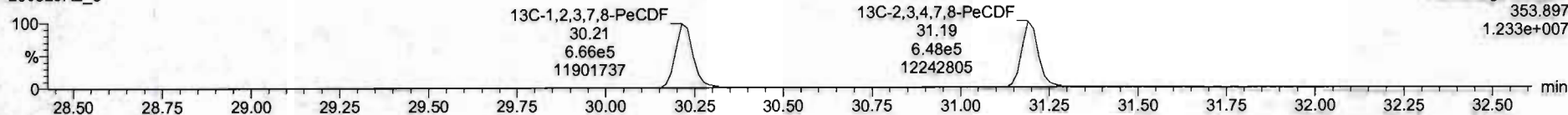


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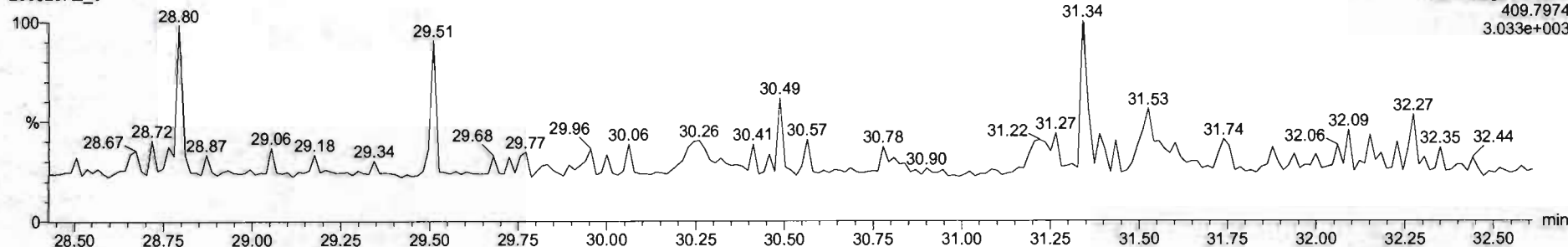


200528R2_5



DPE2

200528R2_5



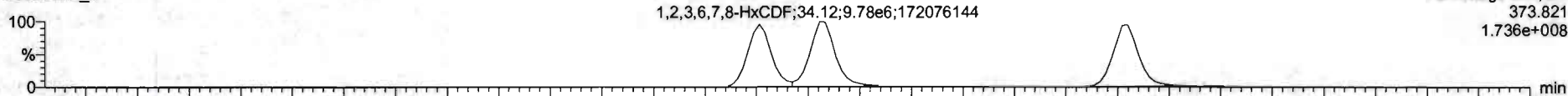
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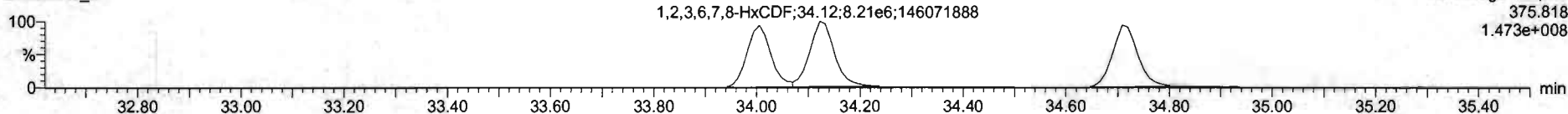
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1,2,3,4,7,8-HxCDF

200528R2_5

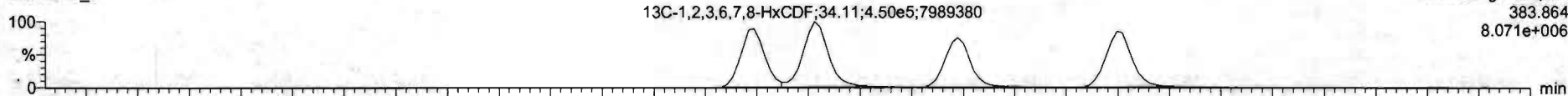


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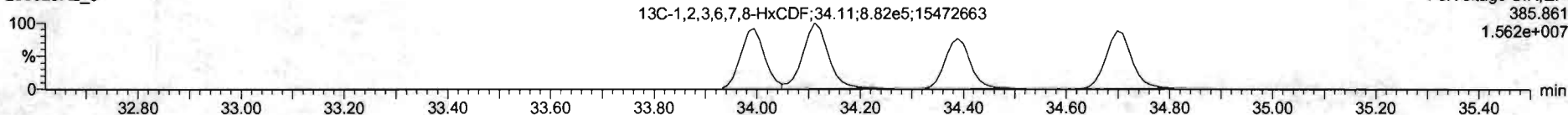


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200528R2_5

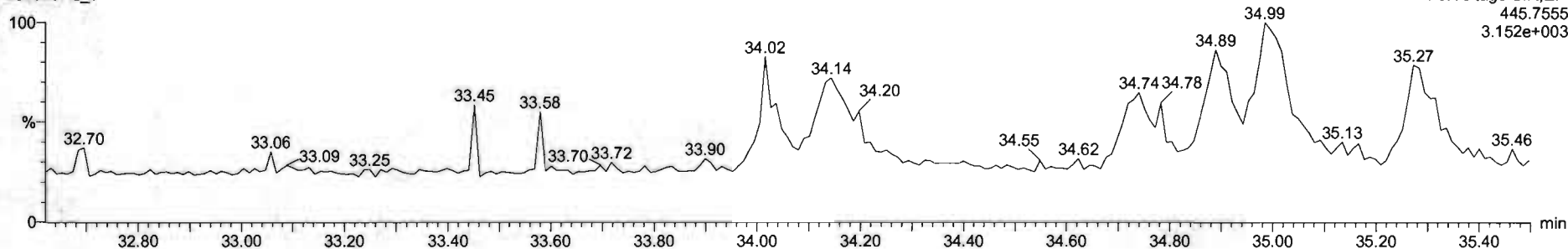


200528R2_5



DPE3

200528R2_5



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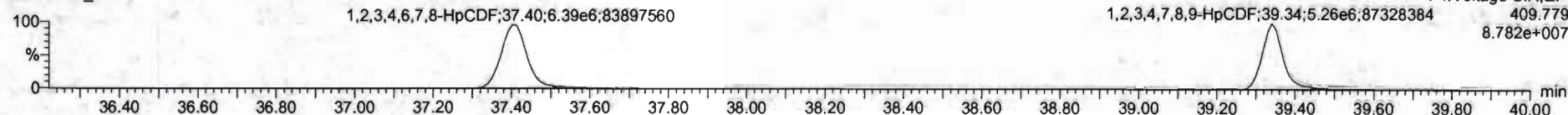
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1,2,3,4,6,7,8-HpCDF

200528R2_5

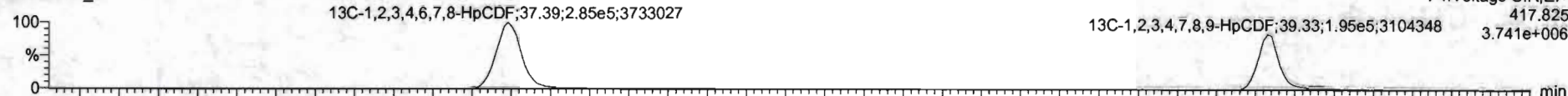


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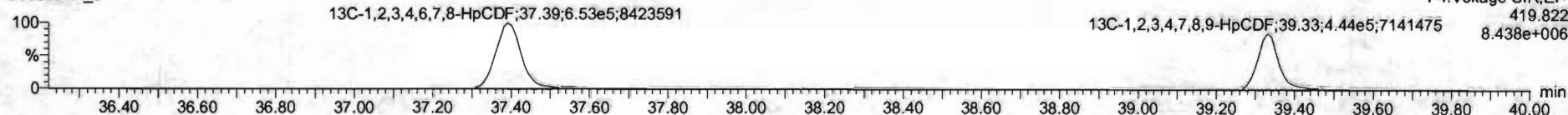


13C-1,2,3,4,6,7,8-HpCDF

200528R2_5

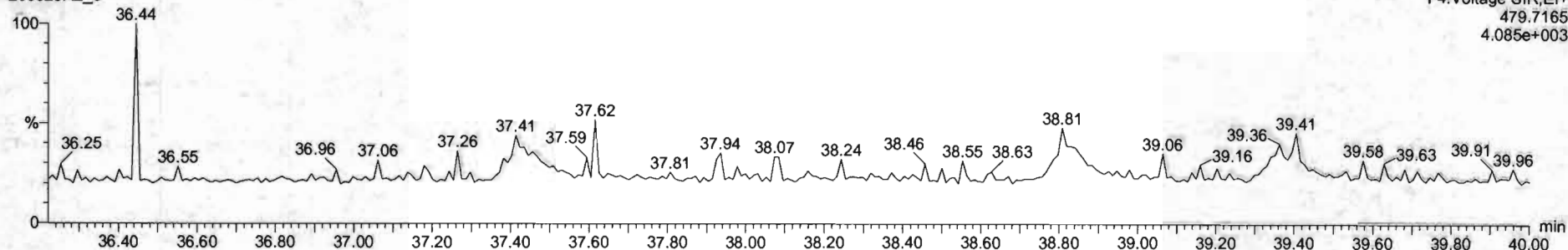


200528R2_5



DPE4

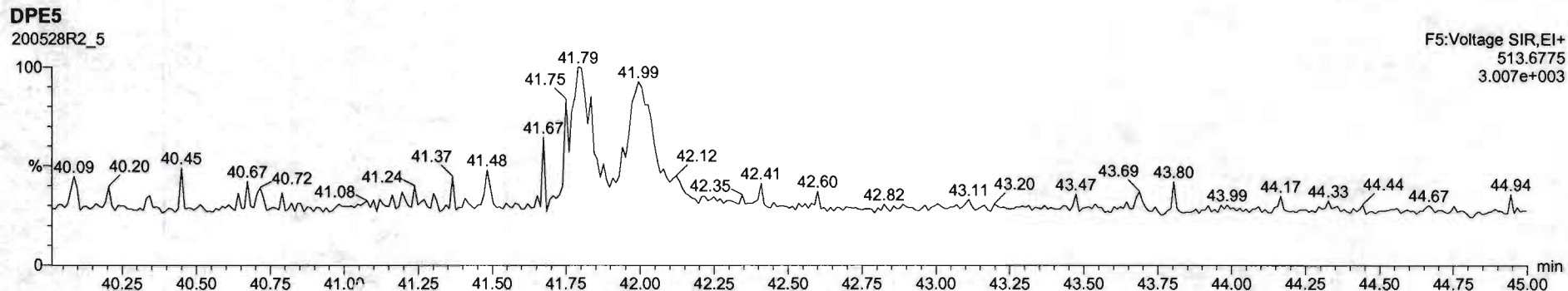
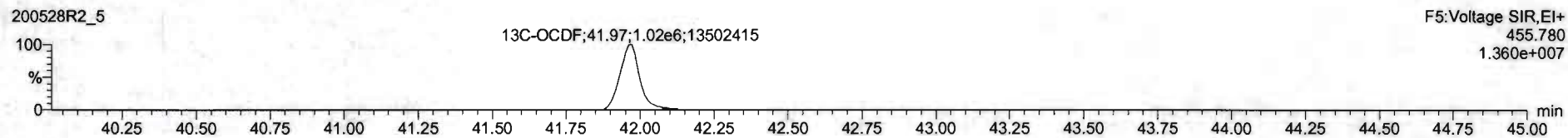
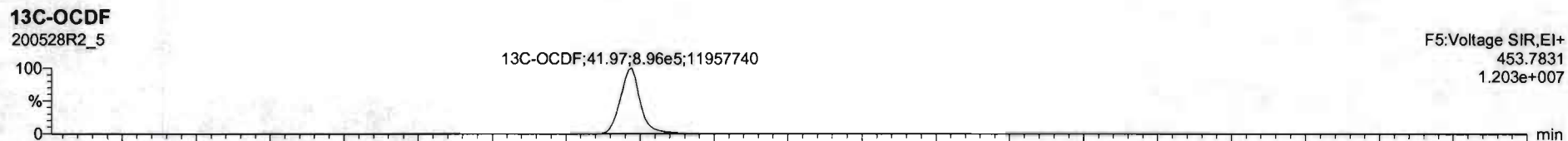
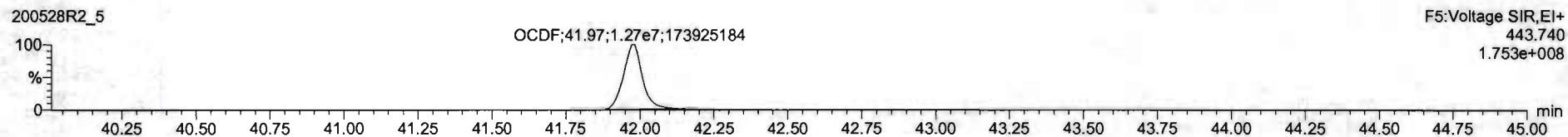
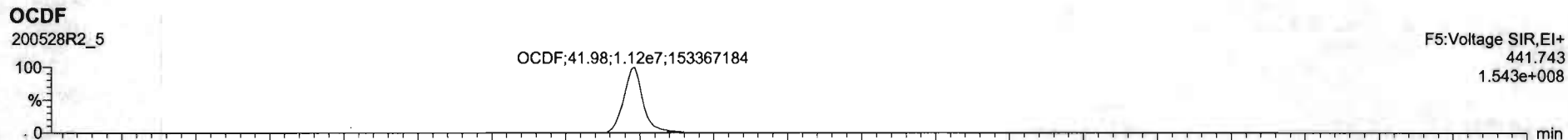
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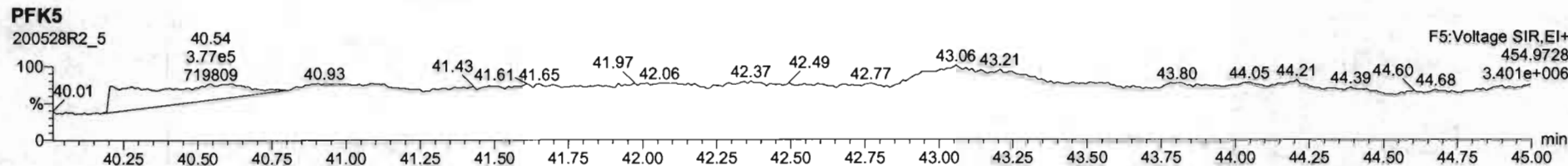
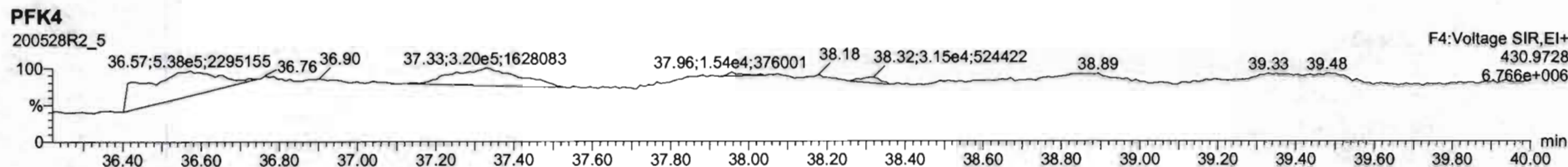
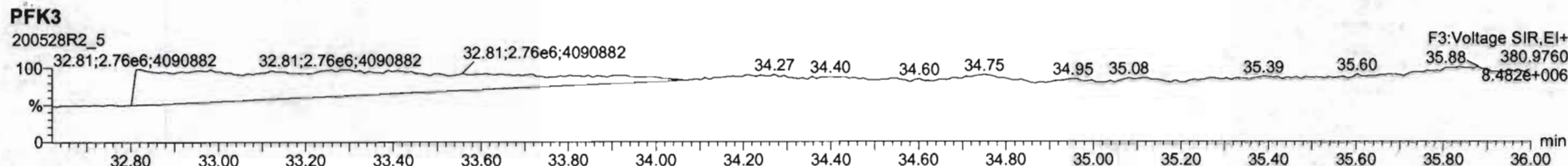
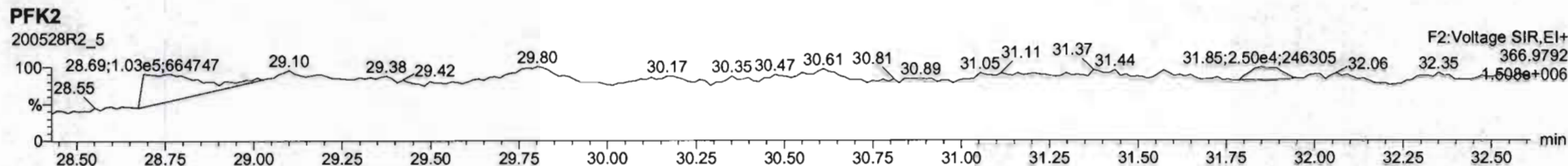
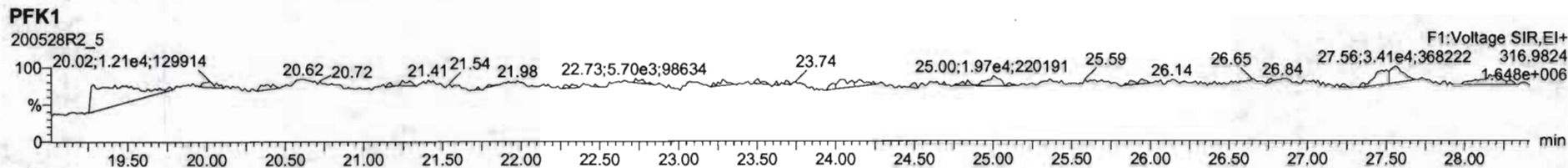
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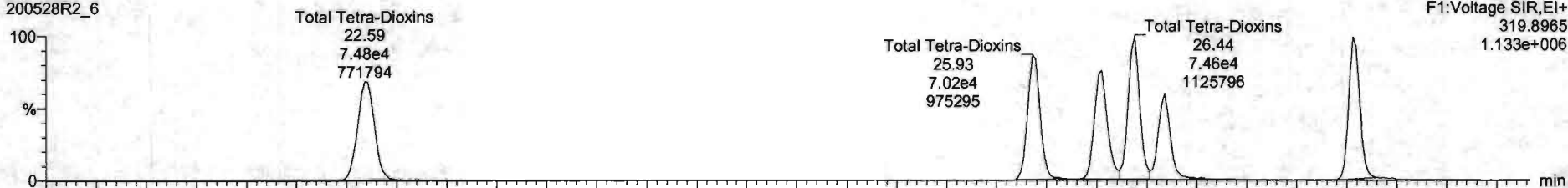
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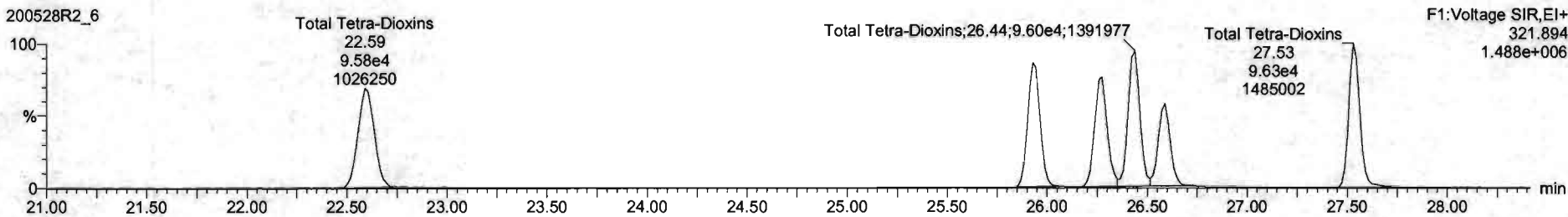
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2,3,7,8-TCDD

200528R2_6

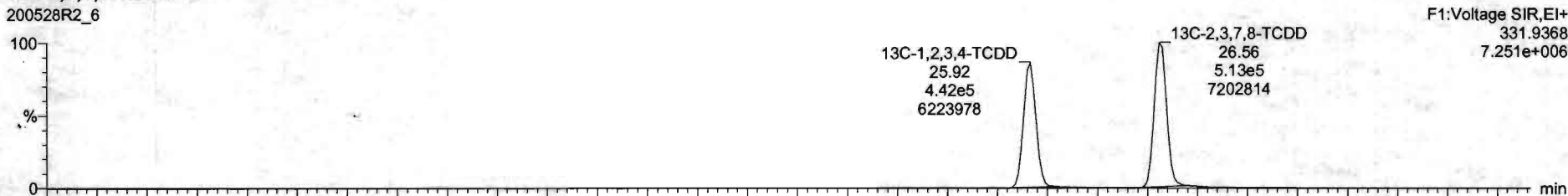


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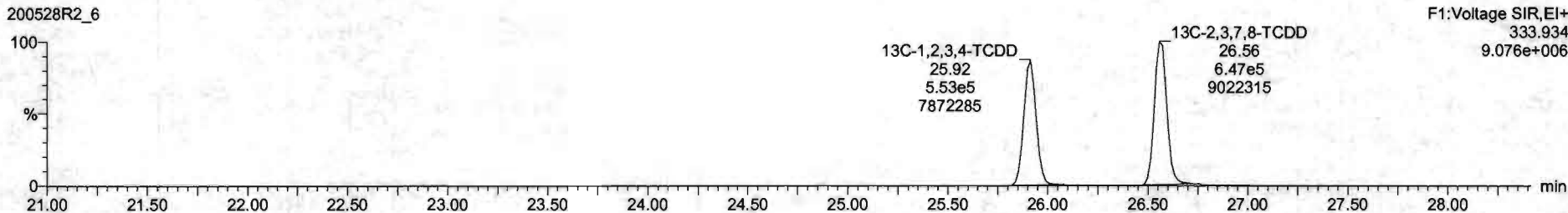


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200528R2_6



200528R2_6



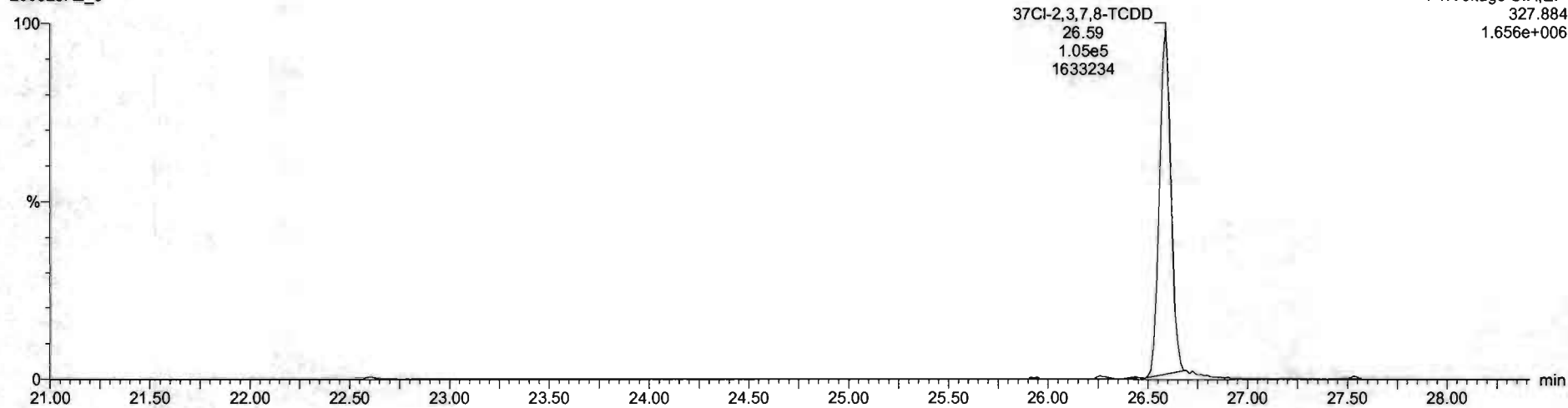
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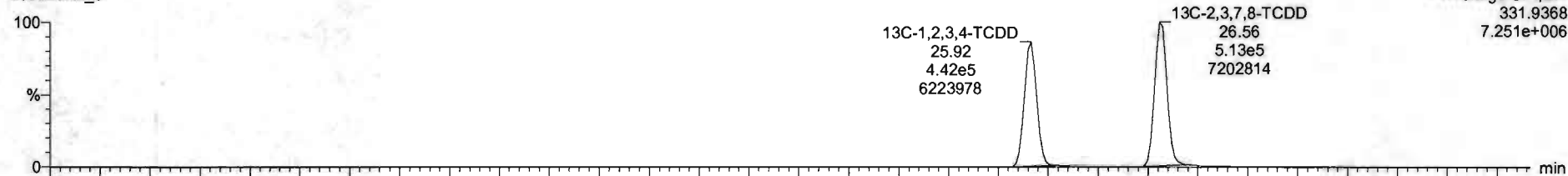
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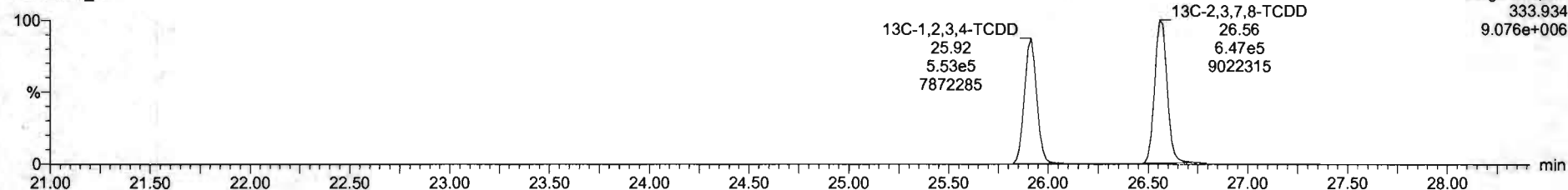


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200528R2_6



200528R2_6



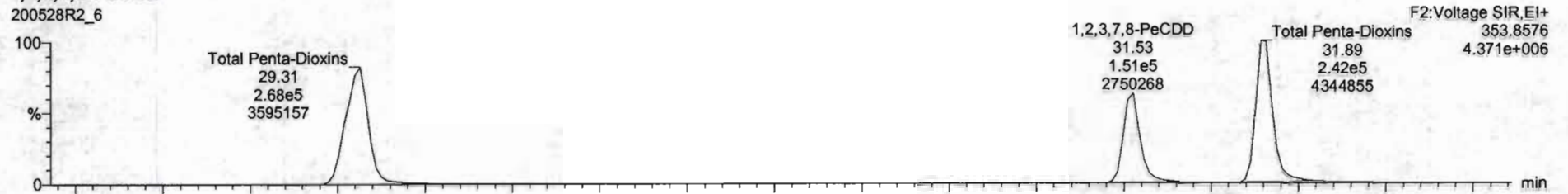
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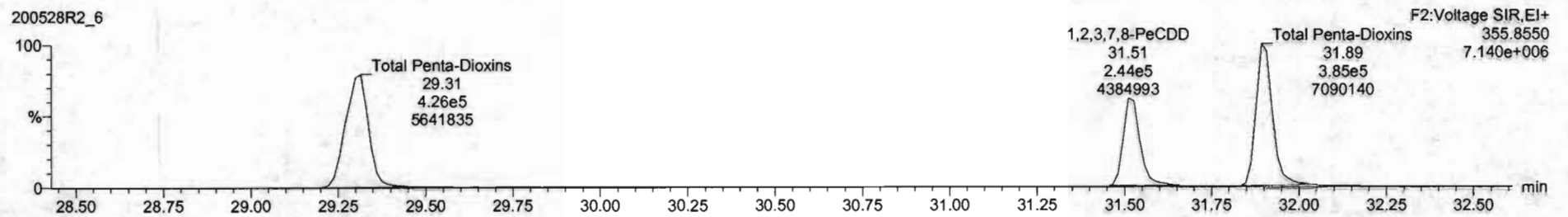
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1,2,3,7,8-PeCDD

200528R2_6

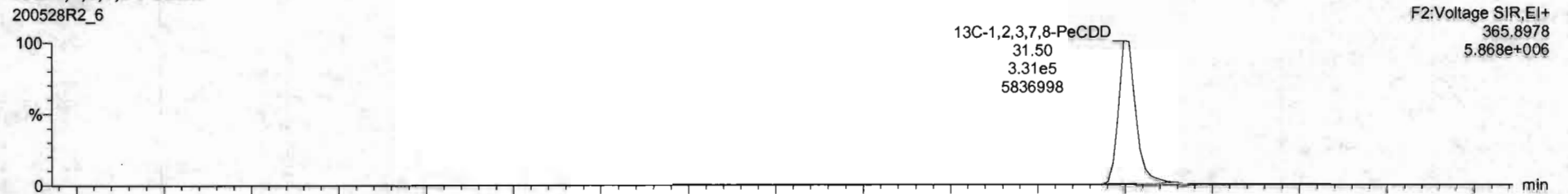


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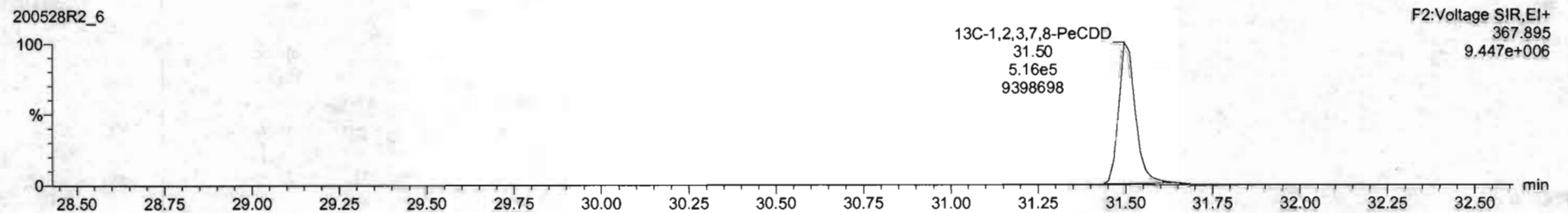


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200528R2_6



200528R2_6



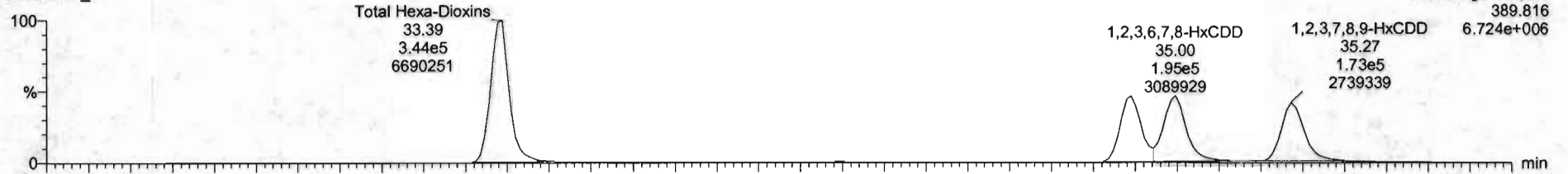
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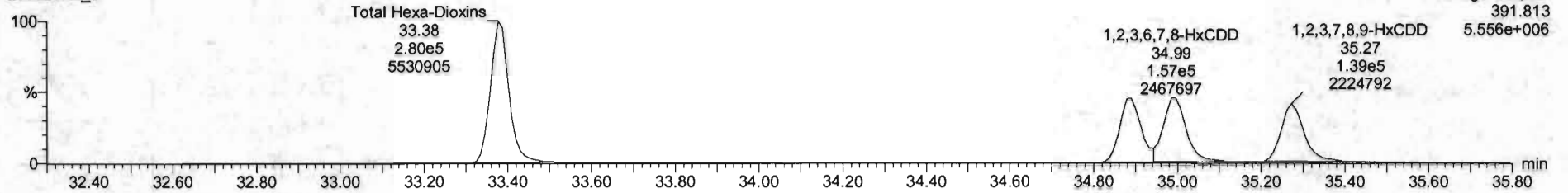
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1,2,3,4,7,8-HxCDD

200528R2_6

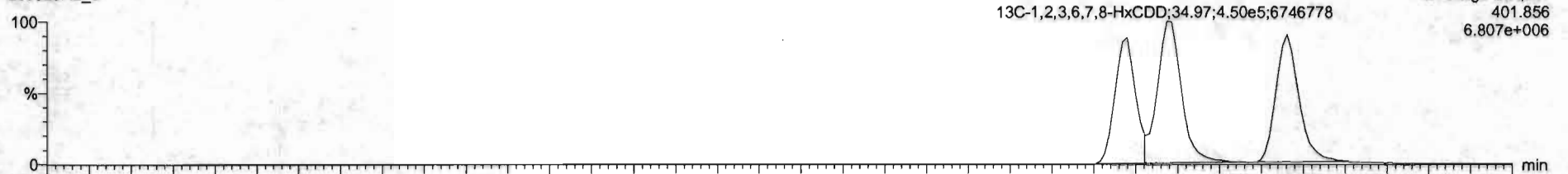


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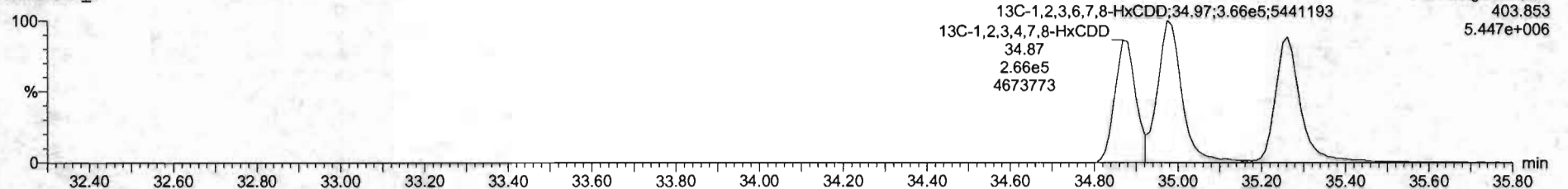


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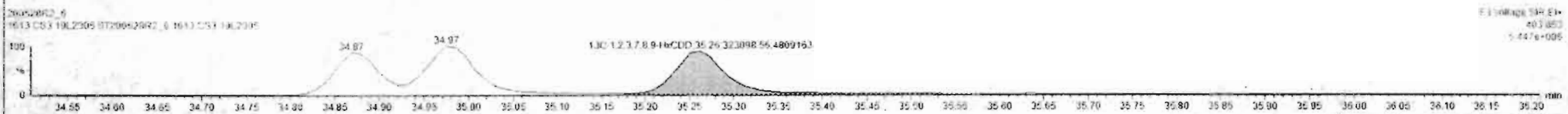
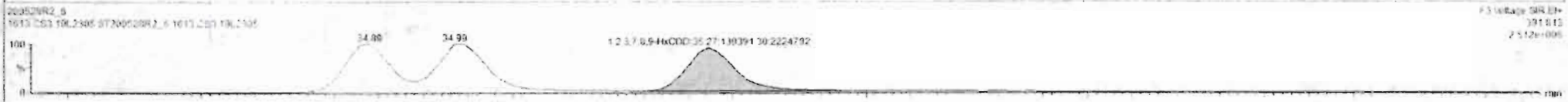
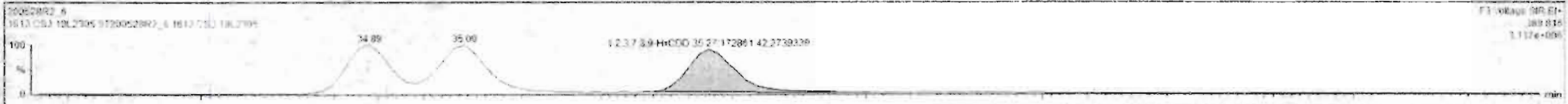
200528R2_6



200528R2_6



#	Name	Res#	RA	aly	RRT	sd/vol	RT	RRT	Conc.	%Rec	DL	LHPC
1	2,3,7,8-TCDD	1.06e5	0.91	NO	0.6203	1.000	26.59	1.001	10.2	102	0.0674	10.2
2	1,2,3,7,8-PeCDD	3.96e5	0.62	NO	0.9041	1.000	31.43	1.001	51.3	103	2.19e	51.3
3	1,2,3,4,7,8-HxCDD	7.25e5	1.22	NO	1.6334	1.000	34.89	1.000	52.1	104	0.220	52.1
4	1,2,3,6,7,8-HxCDD	3.51e5	1.24	NO	0.8921	1.000	36.20	1.001	48.3	96.8	0.271	48.3
5	1,2,3,7,8,9-HxCDD	3.12e5	1.24	NO	0.6669	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HxCDD	2.29e5	1.02	NO	0.9618	1.000	30.81	1.000	51.2	102	2.209	51.2
7	CDDX	4.53e5	0.38	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.68	1.001	9.96	99.8	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8905	1.000	30.25	1.000	51.2	102	0.130	51.2
10	1,2,3,7,8-PeCDF	4.81e5	1.57	NO	0.9348	1.000	31.22	1.000	49.3	101	0.130	49.3
11	1,2,3,4,7,8-HxCDF	3.98e5	1.21	NO	0.9548	1.000	34.07	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8622	1.000	34.13	1.000	51.9	104	0.179	51.9
13	1,2,3,4,6,7,8-HxCDF	3.88e5	1.25	NO	0.9341	1.000	34.72	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8767	1.000	35.63	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,6,5-HpCDF	2.00e5	0.80	NO	1.0123	1.000	38.34	1.000	52.7	105	0.258	52.7
17	CDFX	4.44e5	0.86	NO	0.8505	1.000	41.97	1.000	102	102	0.161	102
18	1,2,3,7,8,9-TCDF	1.16e5	0.79	NO	1.1503	1.000	28.96	1.025	101	101	0.0990	
19	1,3C-1,2,3,7,8-HxCDF	6.48e5	0.64	NO	0.8450	1.000	31.60	1.215	100	100	0.225	
20	1,3C-1,2,3,4,7,8-HxCDF	6.04e5	1.27	NO	0.7790	1.000	34.86	1.014	98.9	98.9	0.188	
21	1,3C-1,2,3,6,7,8-HxCDF	6.19e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



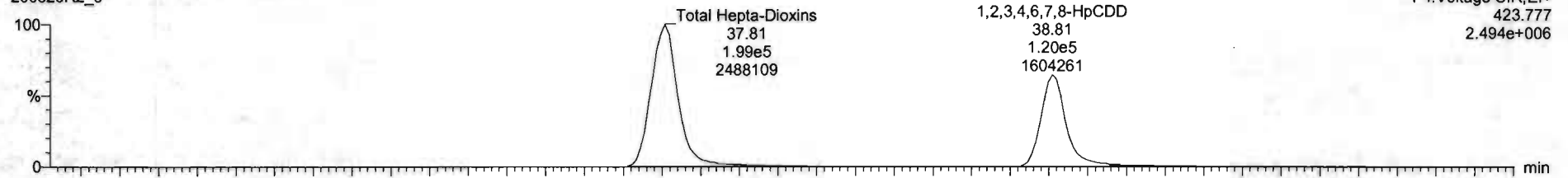
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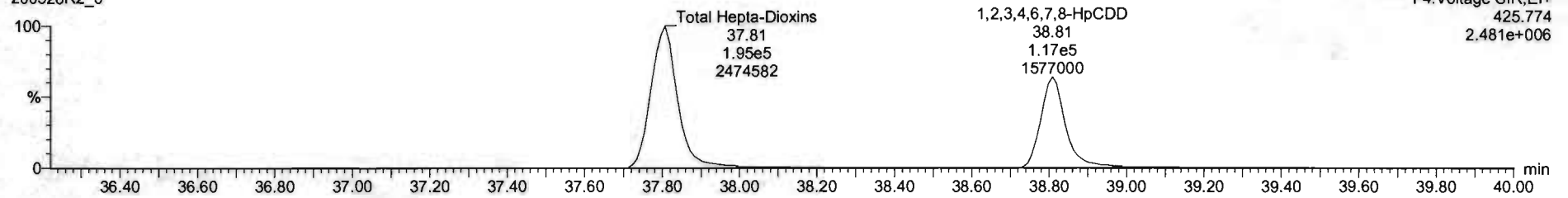
1,2,3,4,6,7,8-HpCDD

200528R2_6



F4:Voltage SIR,EI+
423.777
2.494e+006

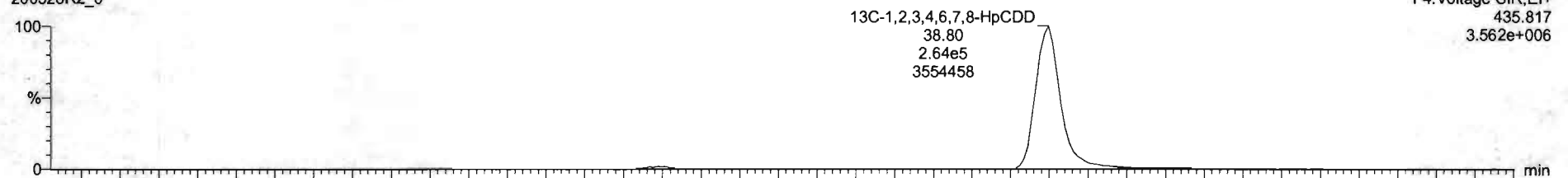
200528R2_6



F4:Voltage SIR,EI+
425.774
2.481e+006

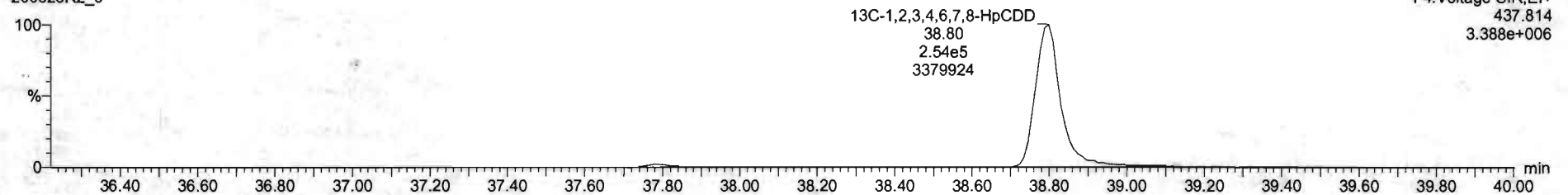
13C-1,2,3,4,6,7,8-HpCDD

200528R2_6



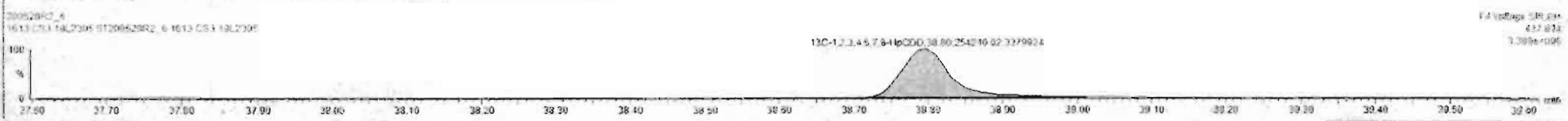
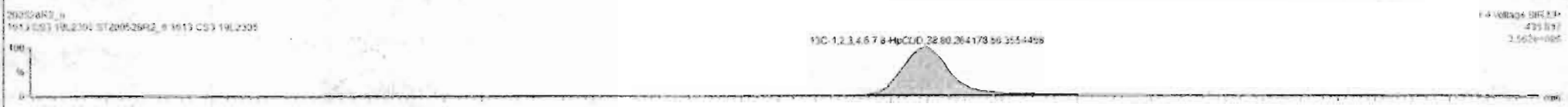
F4:Voltage SIR,EI+
435.817
3.562e+006

200528R2_6



F4:Voltage SIR,EI+
437.814
3.388e+006

#	Name	Resp	RA	inj	RRF	wtvol	HT	RR1	Conc	%Rec	OL	EMPC
1	1,2,3,4,5-HpCDD	1.96e5	0.81	NO	0.880	1.000	26.19	1.001	10.2	102	0.0664	10.0
2	1,2,3,4,6,7,8-HpCDD	3.95e5	0.82	NO	0.900	1.000	31.53	1.001	51.3	102	0.195	51.3
3	1,2,3,4,7,8-HpCDD	3.25e5	1.23	NO	1.034	1.000	34.89	1.006	52.1	104	0.255	52.1
4	1,2,3,4,7,8-HxCDD	0.51e5	1.24	NO	0.890	1.000	35.35	1.001	48.2	96.4	0.251	48.2
5	1,2,3,4,7,8,9-HxCDD	0.12e5	1.24	NO	1.525	1.000	35.27	1.000	49.9	99.8	0.204	49.9
6	1,2,3,4,6,7,8-HxCDD	0.95e5	1.03	NO	0.890	1.000	35.81	1.000	51.2	102	0.269	51.2
7	OCDF	4.53e5	0.98	NO	0.916	1.000	41.75	1.000	102	102	0.208	102
8	1,1,1,6-TCDF	1.19e5	0.74	NO	0.710	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.890	1.000	30.25	1.000	51.0	102	0.150	51.0
10	1,2,3,7,8-PeCDF	5.81e5	1.57	NO	0.930	1.000	31.00	1.000	50.3	101	0.150	50.3
11	1,2,3,4,7,8-HxCDF	3.58e5	1.21	NO	0.850	1.000	34.01	1.000	51.1	102	0.251	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.850	1.000	34.13	1.000	51.9	104	0.170	51.9
13	1,2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.904	1.000	34.72	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8-HxCDF	3.98e5	1.22	NO	0.870	1.000	35.03	1.000	51.1	102	0.209	51.1
15	1,2,3,4,6,7,8-HpCDF	2.84e5	0.98	NO	0.870	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.30e5	0.98	NO	1.012	1.000	38.14	1.000	52.7	108	0.288	52.7
17	OCDF	4.44e5	0.95	NO	0.800	1.000	41.87	1.000	102	102	0.161	102
18	13C-1,2,3,7,8-12CD	1.16e5	0.79	NO	1.150	1.000	29.56	1.026	101	101	0.0980	
19	13C-1,2,3,7,8-HpCDD	0.48e5	0.84	NO	0.940	1.000	33.50	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HpCDD	8.04e5	1.27	NO	0.770	1.000	34.88	1.014	98.9	98.9	0.188	
21	13C-1,2,3,6,7,8-HxCDD	8.15e5	1.23	NO	1.040	1.000	34.97	1.017	102	102	0.144	



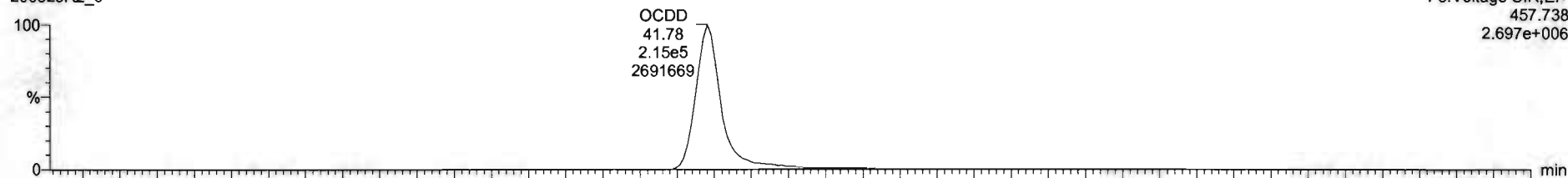
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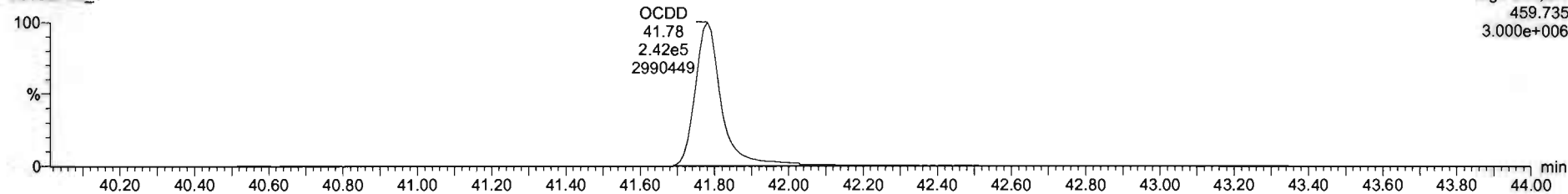
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OCDD

200528R2_6

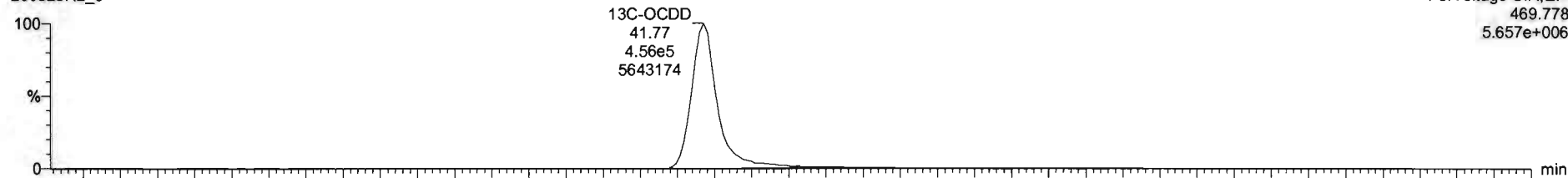


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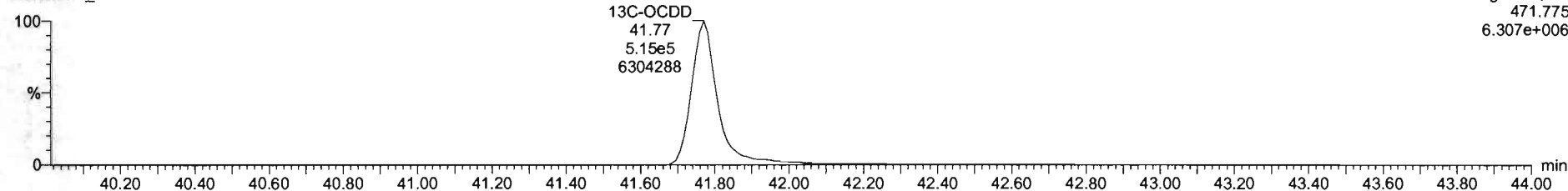


13C-OCDD

200528R2_6



200528R2_6



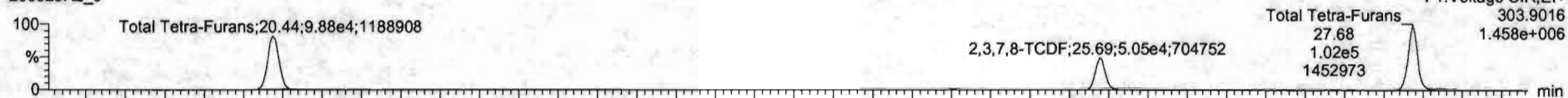
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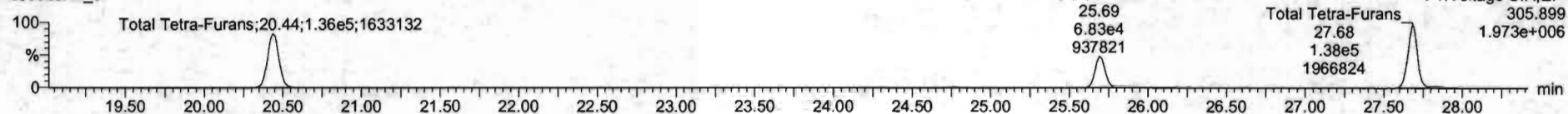
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2,3,7,8-TCDF

200528R2_6

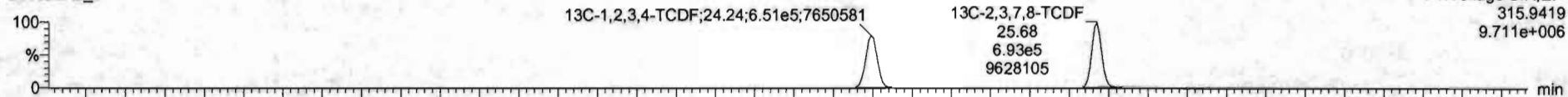


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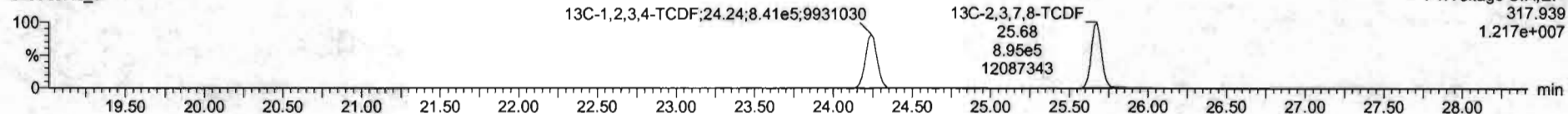


13C-2,3,7,8-TCDF

200528R2_6

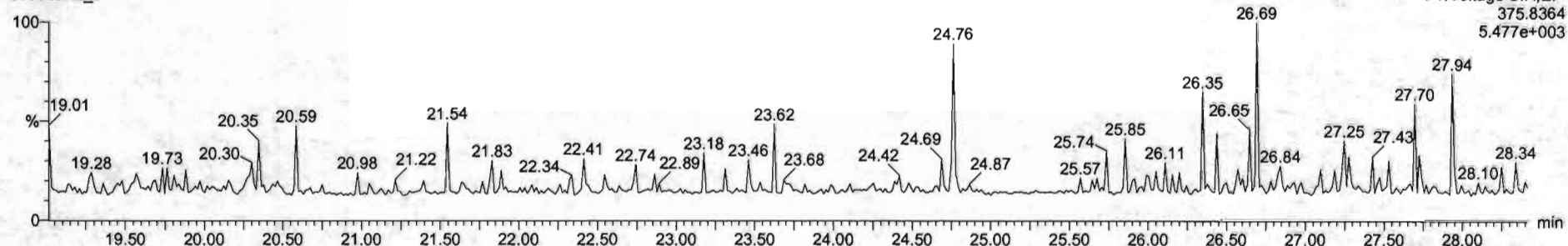


200528R2_6



DPE1

200528R2_6



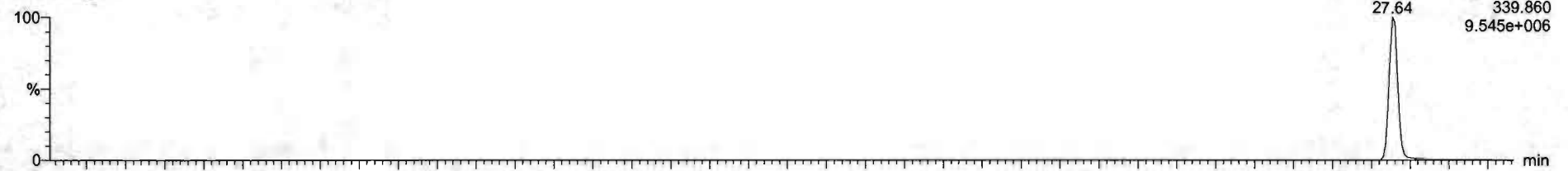
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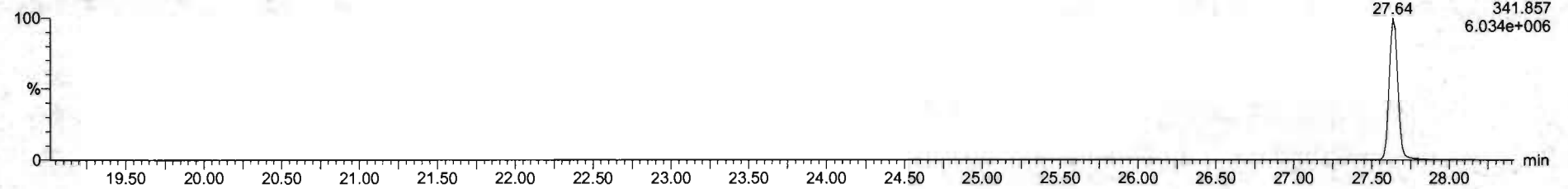
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200528R2_6

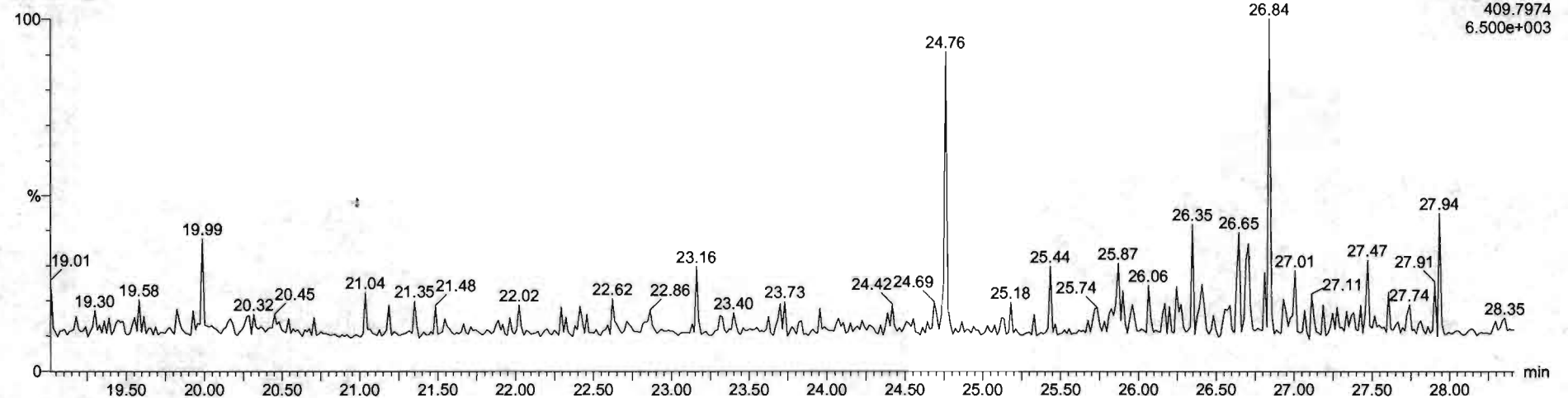


200528R2_6



DPE6

200528R2_6



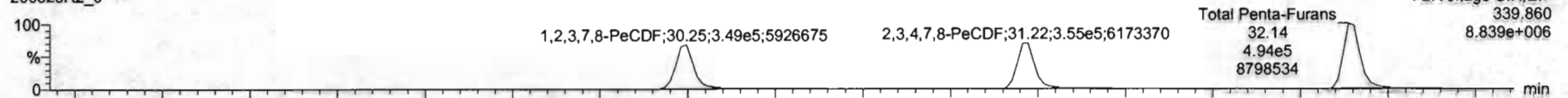
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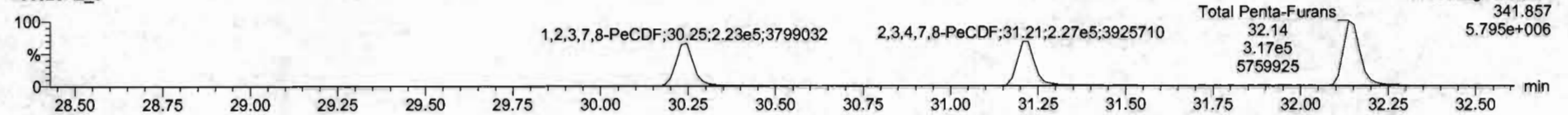
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1,2,3,7,8-PeCDF

200528R2_6

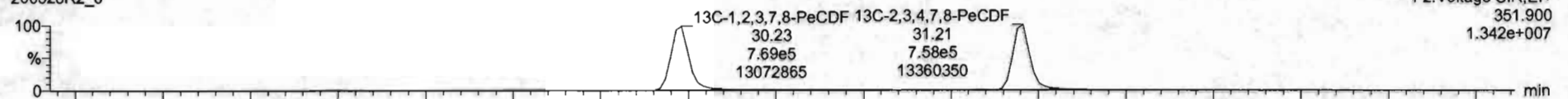


200528R2_6

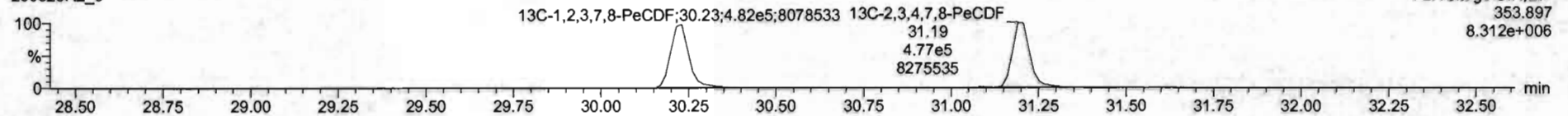


13C-1,2,3,7,8-PeCDF

200528R2_6

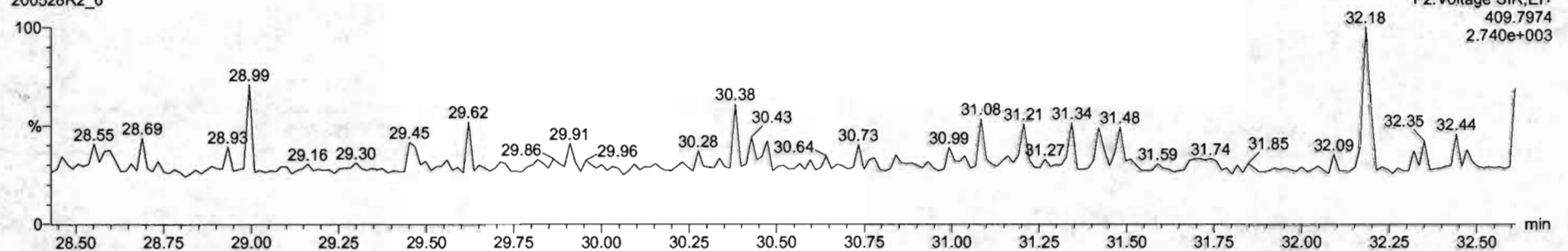


200528R2_6



DPE2

200528R2_6

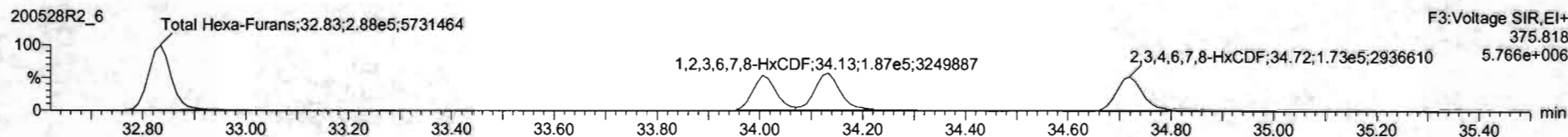
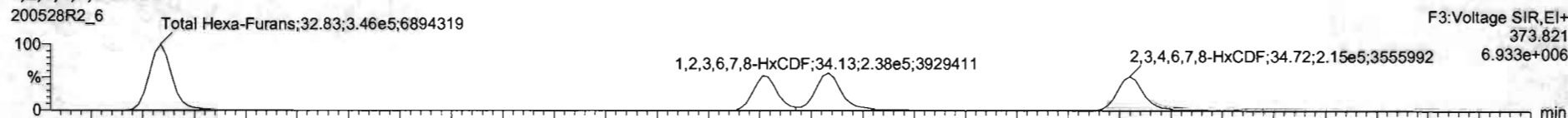


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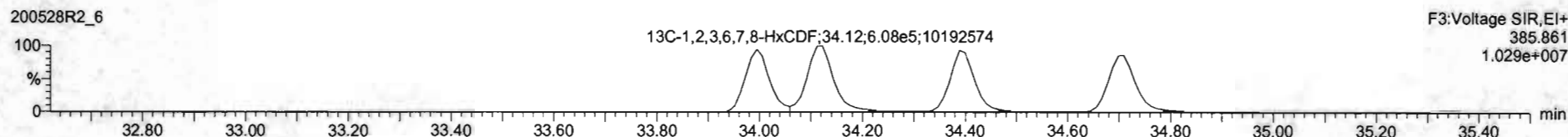
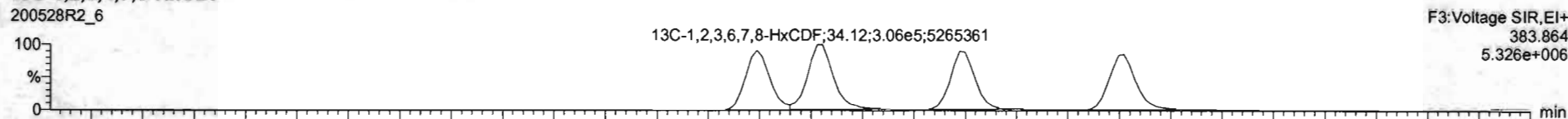
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

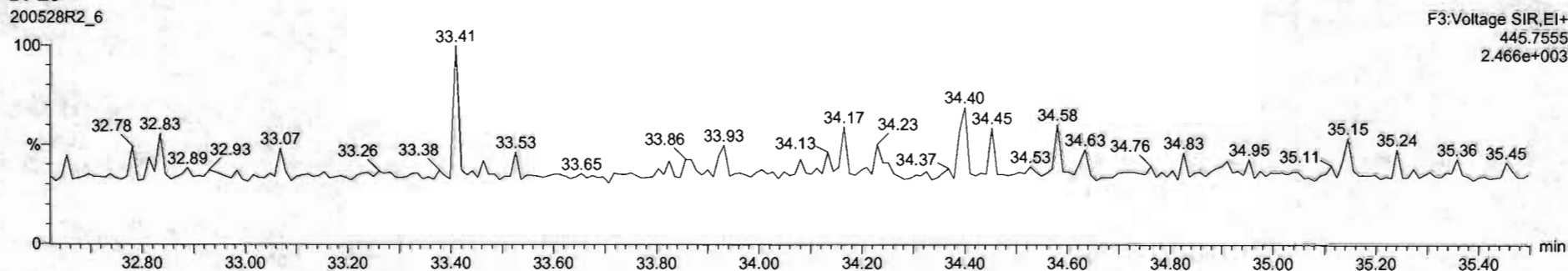
1,2,3,4,7,8-HxCDF



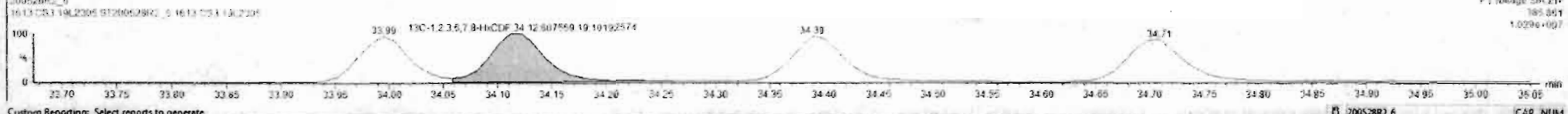
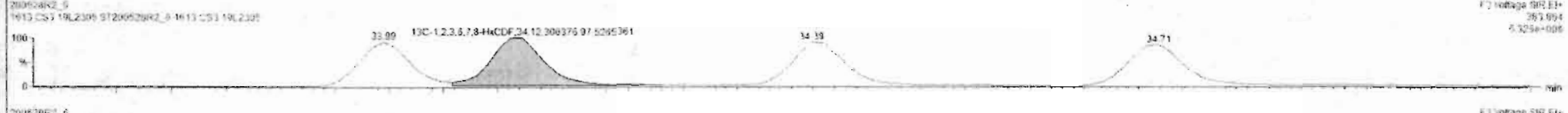
13C-1,2,3,4,7,8-HxCDF



DPE3



Name	Resp	RA	WV	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMFC
1 2,3,7,8-TCDD	1.06e5	0.81	NO	0.6082	1.000	26.55	1.001	102	102	0.0664	10.2
2 1,2,3,7,8-PeCDD	1.56e5	0.82	NO	0.6081	1.000	31.53	1.001	51.3	103	0.194	51.3
3 1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.89	1.000	52.1	104	0.220	52.1
4 1,2,3,6,7,8-HxCDD	0.31e5	1.24	NO	0.8923	1.000	25.00	1.001	48.3	96.6	0.231	48.3
5 1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.9269	1.000	35.27	1.000	49.9	99.8	0.264	49.9
6 1,2,3,4,6,7,8-HpCDD	0.26e5	1.01	NO	0.8838	1.000	26.61	1.000	51.2	102	0.209	51.2
7 OCDD	1.53e5	0.86	NO	0.5136	1.000	41.78	1.000	102	102	0.290	102
8 2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9 1,2,3,7,8-PeCDF	0.72e5	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.139	51.2
10 1,2,3,4,7,8-HxCDF	0.91e5	1.57	NO	0.9248	1.000	31.22	1.000	50.3	101	0.130	50.3
11 1,2,3,4,7,8-HxCDF	0.56e5	1.21	NO	0.8845	1.000	34.01	1.000	51.1	102	0.191	51.1
12 1,2,3,6,7,8-HxCDF	0.42e5	1.25	NO	0.8092	1.000	34.13	1.000	51.9	104	0.170	51.9
13 2,3,4,6,7,8-HxCDF	1.58e5	1.25	NO	0.9241	1.000	34.72	1.000	51.9	104	0.197	51.9
14 1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8707	1.000	35.83	1.000	51.1	102	0.201	51.1
15 1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16 1,2,3,4,7,8,9-HpCDF	0.20e5	0.86	NO	1.0100	1.000	39.34	1.000	52.7	105	0.268	52.7
17 OCDF	1.44e5	0.86	NO	0.8085	1.000	41.97	1.000	102	102	0.141	102
18 13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1583	1.000	26.56	1.026	101	101	0.0890	
19 13C-1,2,3,7,8-PeCDD	0.48e5	0.64	NO	0.8490	1.000	31.50	1.215	100	100	0.235	
20 13C-1,2,3,4,7,8-HxCDD	0.04e5	1.27	NO	0.7790	1.000	34.86	1.014	98.9	98.9	0.188	
21 13C-1,2,3,6,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



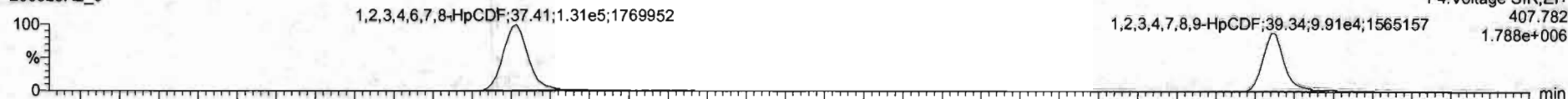
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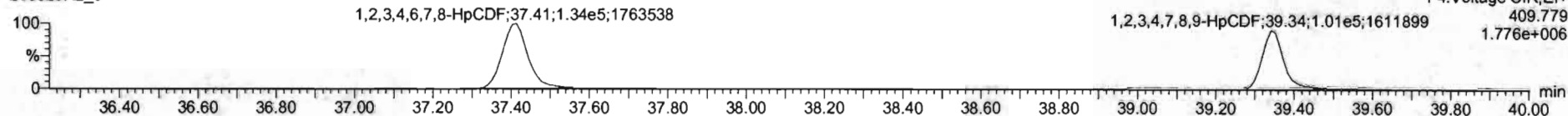
Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200528R2_6

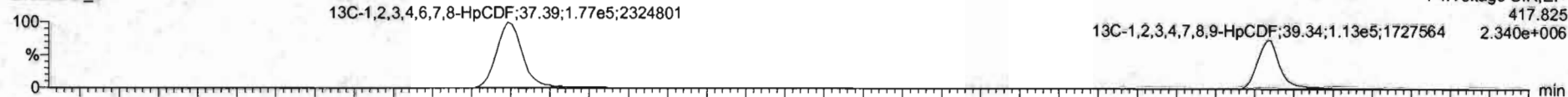


200528R2_6

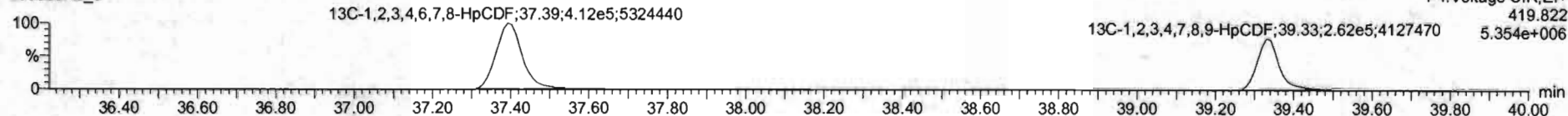


13C-1,2,3,4,6,7,8-HpCDF

200528R2_6

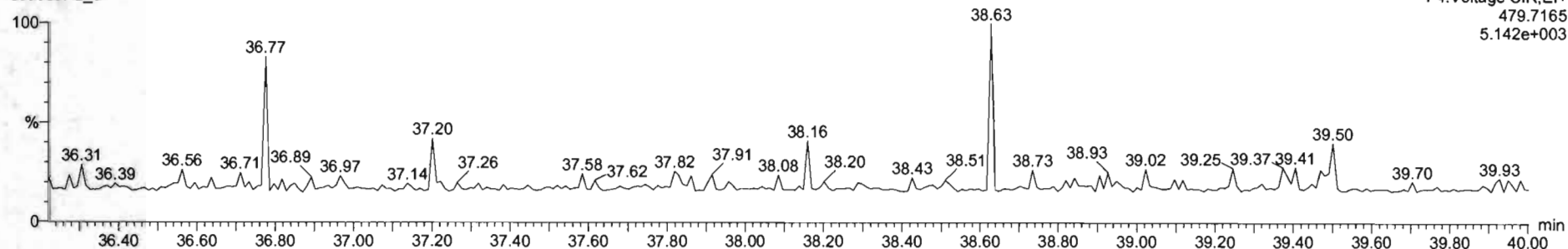


200528R2_6



DPE4

200528R2_6

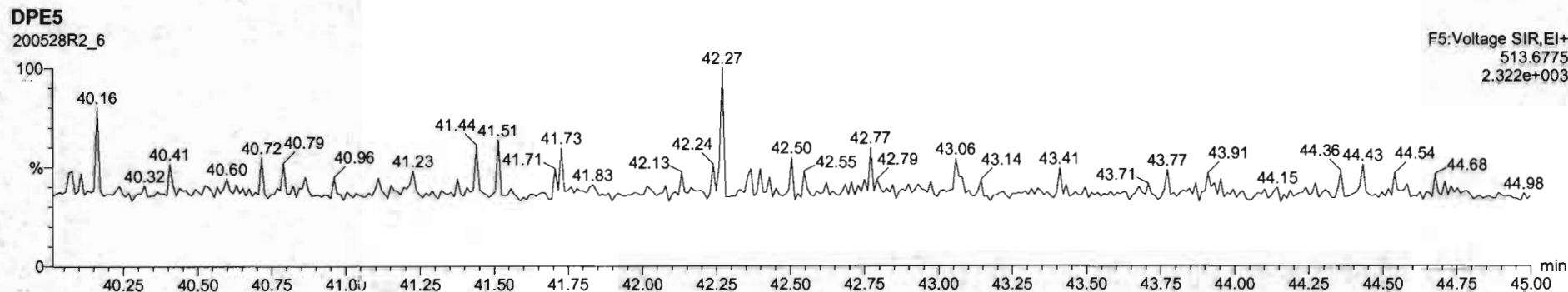
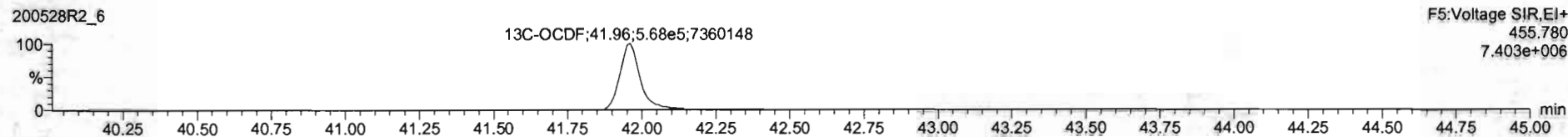
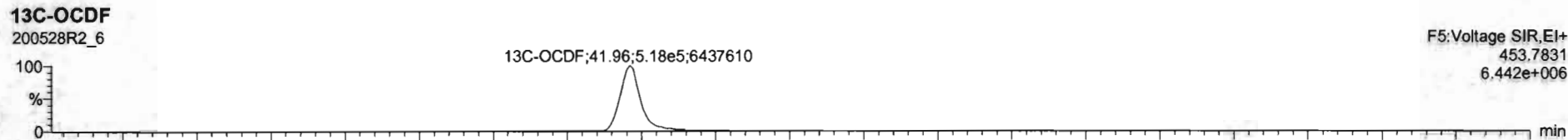
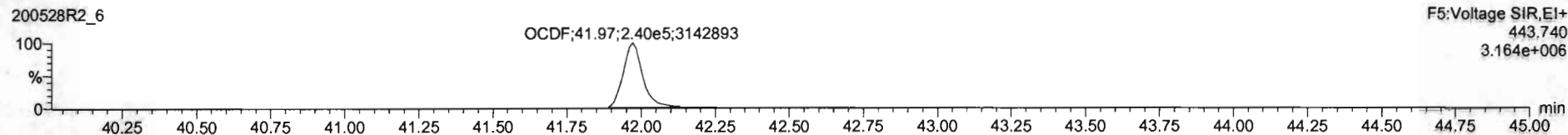
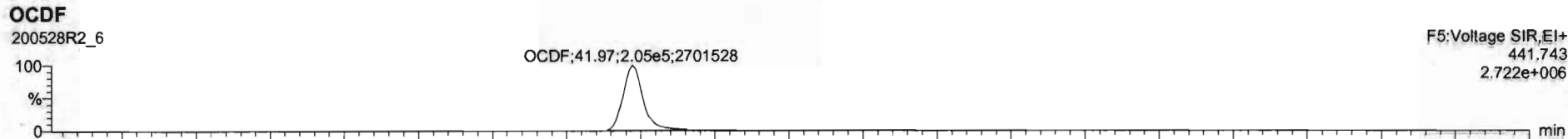


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Name: 200528R2_6, Date: 28-May-2020, Time: 15:58:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



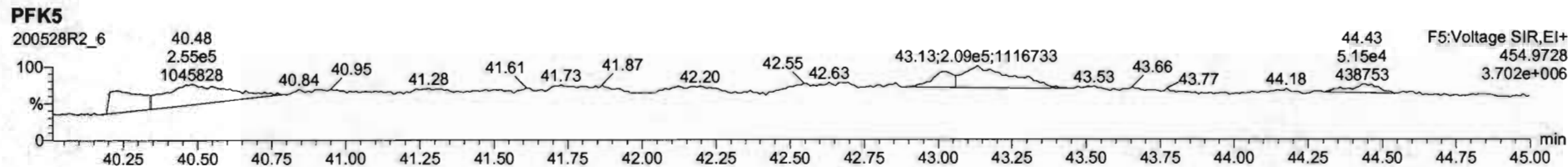
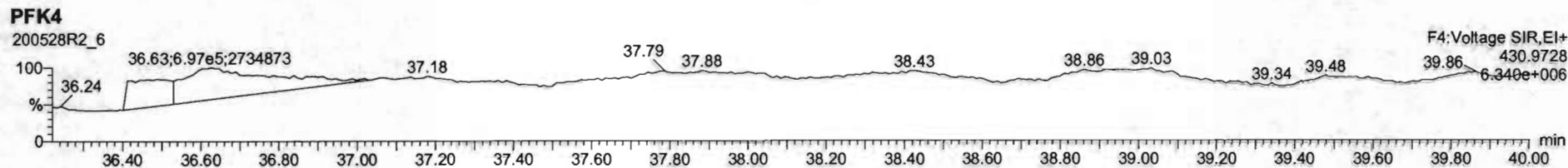
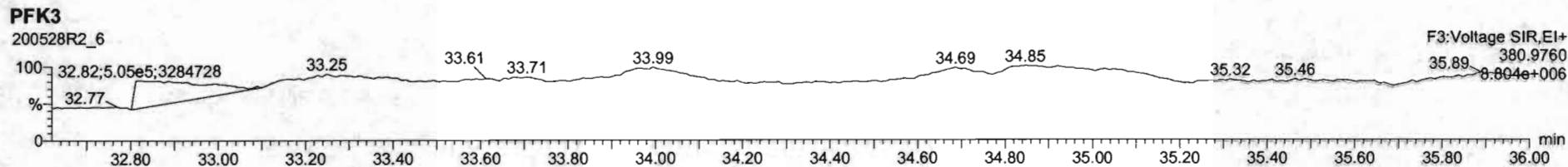
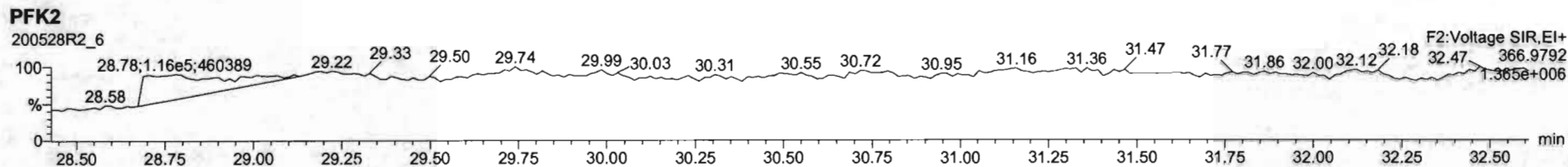
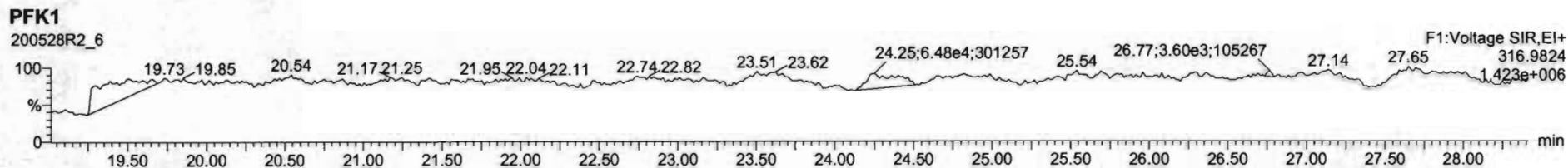
#	Name	Resp	RA	Qty	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDF	1.06e5	0.81	NO	0.8503	1.000	26.19	1.001	10.2	102	0.0664	10.2
2	1,2,3,7,8-PeCDF	3.56e5	0.62	NO	0.8091	1.000	31.53	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDF	0.25e5	1.23	NO	1.0334	1.000	34.99	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDF	7.51e5	1.38	NO	0.8521	1.000	35.00	1.001	48.3	96.6	0.231	48.3
5	1,2,3,7,8,9-HxCDF	0.12e5	1.24	NO	0.8265	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HxCDD	1.06e5	1.01	NO	1.9839	1.000	35.91	1.000	73.2	102	0.109	73.2
7	OCDF	4.53e5	0.68	NO	0.9136	1.000	41.75	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.98	99.8	0.0613	9.96
9	1,2,3,7,8-PeCDF	1.72e5	1.57	NO	0.8925	1.000	30.24	1.000	51.2	102	0.139	51.2
10	1,2,3,4,7,8-HxCDF	5.61e5	1.57	NO	0.9348	1.000	31.22	1.000	40.3	101	0.150	40.3
11	1,2,3,4,7,8-HxCDF	3.56e5	1.31	NO	0.8545	1.000	34.81	1.000	51.1	103	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8282	1.000	34.13	1.000	51.9	104	0.176	51.9
13	2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.9341	1.000	34.72	1.000	51.8	104	0.187	51.8
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8787	1.000	34.83	1.000	51.1	102	0.291	51.1
15	1,2,3,4,6,7,8-HxCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HxCDF	2.00e5	0.98	NO	1.0128	1.000	39.34	1.000	52.7	102	0.258	52.7
17	OCDF	4.44e5	0.85	NO	0.6085	1.000	41.97	1.000	102	102	0.191	102
18	13C-2,3,7,8-TCDF	1.16e6	0.79	NO	1.1523	1.000	26.96	1.024	101	101	0.0680	
19	13C-1,2,3,7,8-PeCDF	6.48e5	0.84	NO	0.9450	1.000	31.50	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	6.04e5	1.27	NO	0.7750	1.000	34.88	1.014	95.9	95.9	0.168	
21	13C-1,2,3,6,7,8-HxCDD	6.15e5	1.23	NO	1.8187	1.000	34.97	1.017	102	102	0.144	



Dataset: Untitled

Last Altered: Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

GRB 05/29/2020

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.888	1.000	26.575	26.57	1.001	1.001	11.080	111	0.0262	11.1
2	2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.908	1.000	31.518	31.51	1.001	1.000	56.429	113	0.0622	56.4
3	3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.03	1.000	34.879	34.88	1.000	1.000	58.033	116	0.101	58.0
4	4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.892	1.000	34.975	34.99	1.000	1.000	57.963	116	0.105	58.0
5	5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.887	1.000	35.262	35.26	1.000	1.000	57.107	114	0.119	57.1
6	6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.864	1.000	38.799	38.80	1.000	1.000	55.832	112	0.168	55.8
7	7 OCDD	5.15e5	0.88	NO	0.914	1.000	41.759	41.78	1.000	1.001	111.26	111	0.171	111
8	8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.751	1.000	25.671	25.68	1.001	1.001	11.386	114	0.0333	11.4
9	9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.893	1.000	30.236	30.23	1.001	1.001	55.728	111	0.0942	55.7
10	10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.935	1.000	31.222	31.21	1.001	1.000	60.229	120	0.0851	60.2
11	11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.884	1.000	33.984	33.99	1.000	1.000	55.936	112	0.113	55.9
12	12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.889	1.000	34.122	34.12	1.000	1.000	56.761	114	0.107	56.8
13	13 2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.934	1.000	34.732	34.71	1.001	1.000	56.468	113	0.117	56.5
14	14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.871	1.000	35.614	35.62	1.000	1.000	55.299	111	0.174	55.3
15	15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.873	1.000	37.430	37.40	1.001	1.000	54.506	109	0.182	54.5
16	16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.01	1.000	39.331	39.34	1.000	1.000	57.740	115	0.198	57.7
17	17 OCDF	5.22e5	0.87	NO	0.806	1.000	41.951	41.96	1.000	1.000	113.77	114	0.201	114
18	18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.16	1.000	26.584	26.54	1.026	1.025	91.859	91.9	0.0837	
19	19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.849	1.000	31.784	31.50	1.227	1.216	88.503	88.5	0.117	
20	20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.779	1.000	34.874	34.87	1.014	1.014	88.587	88.6	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.02	1.000	34.987	34.97	1.017	1.017	88.739	88.7	0.138	
22	22 13C-1,2,3,7,8,9-HxCDD	7.39e5	1.24	NO	0.903	1.000	35.259	35.25	1.025	1.025	87.785	87.8	0.155	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.53e5	1.04	NO	0.689	1.000	38.787	38.79	1.128	1.128	86.116	86.1	0.160	
24	24 13C-OCDD	1.01e6	0.89	NO	0.652	1.000	41.813	41.76	1.216	1.214	166.64	83.3	0.212	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.06	1.000	25.623	25.65	0.989	0.990	90.815	90.8	0.116	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.61	NO	0.838	1.000	30.163	30.21	1.165	1.167	89.693	89.7	0.169	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.57	NO	0.817	1.000	31.119	31.19	1.202	1.204	90.666	90.7	0.174	
28	28 13C-1,2,3,4,7,8-HxCDF	8.51e5	0.51	NO	1.01	1.000	34.004	33.98	0.989	0.988	90.589	90.6	0.222	
29	29 13C-1,2,3,6,7,8-HxCDF	1.01e6	0.51	NO	1.17	1.000	34.127	34.11	0.992	0.992	92.509	92.5	0.191	
30	30 13C-2,3,4,6,7,8-HxCDF	8.50e5	0.51	NO	1.02	1.000	34.702	34.70	1.009	1.009	89.276	89.3	0.219	
31	31 13C-1,2,3,7,8,9-HxCDF	7.33e5	0.50	NO	0.860	1.000	35.603	35.61	1.035	1.036	91.476	91.5	0.260	

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.33e5	0.43	NO	0.774	1.000	37.353	37.39	1.086	1.087	87.682	87.7	0.235	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	0.42	NO	0.521	1.000	39.386	39.33	1.145	1.144	83.716	83.7	0.350	
34	34 13C-OCDF	1.14e6	0.88	NO	0.746	1.000	41.985	41.95	1.221	1.220	163.83	81.9	0.148	
35	35 37Cl-2,3,7,8-TCDD	1.28e5			1.04	1.000	26.615	26.57	1.028	1.026	10.416	104	0.0149	
36	36 13C-1,2,3,4-TCDD	1.19e6	0.81	NO	1.00	1.000	26.000	25.90	1.000	1.000	100.00	100	0.0967	
37	37 13C-1,2,3,4-TCDF	1.80e6	0.79	NO	1.00	1.000	24.360	24.22	1.000	1.000	100.00	100	0.123	
38	38 13C-1,2,3,4,6,9-HxCDF	9.32e5	0.51	NO	1.00	1.000	34.420	34.39	1.000	1.000	100.00	100	0.223	

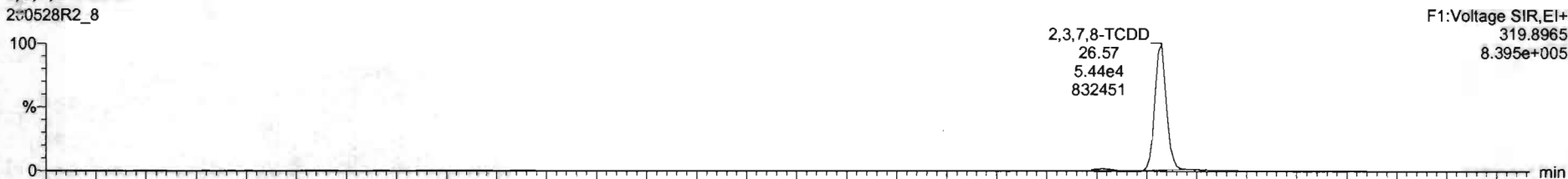
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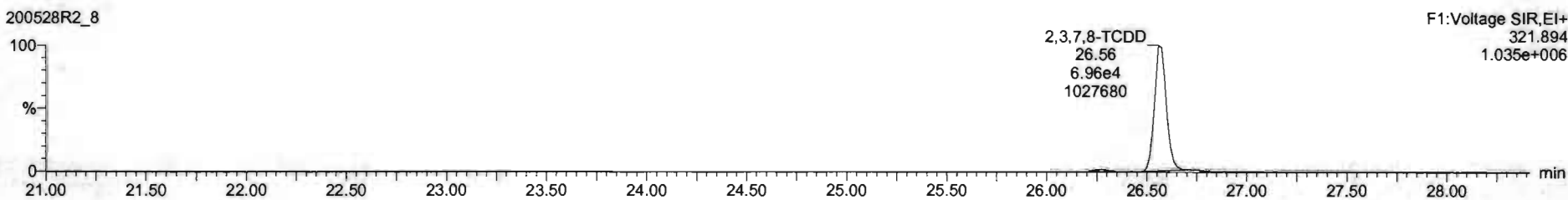
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

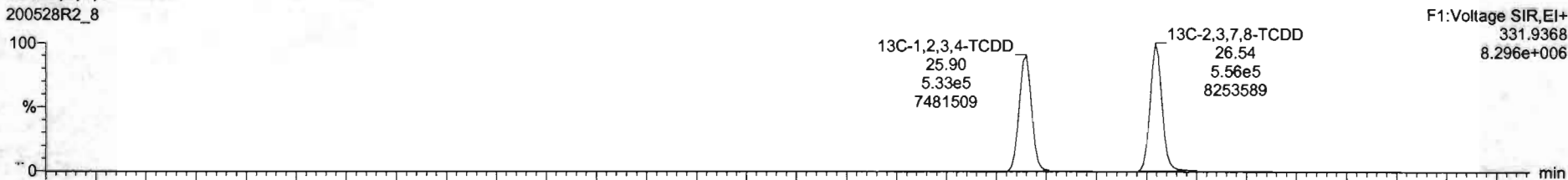
2,3,7,8-TCDD
200528R2_8



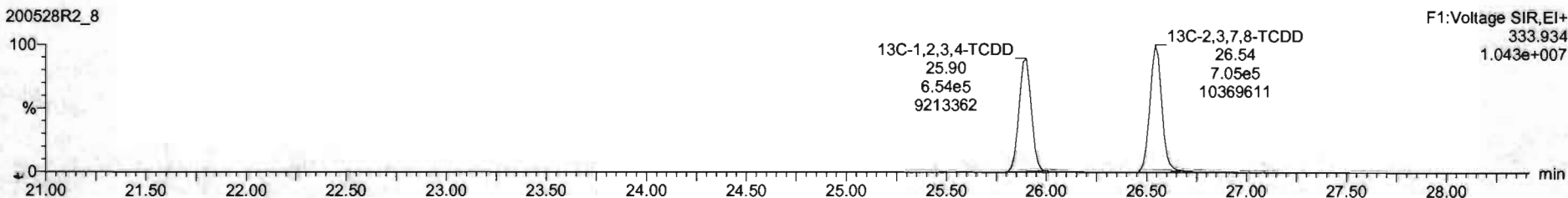
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13C-2,3,7,8-TCDD
200528R2_8



200528R2_8



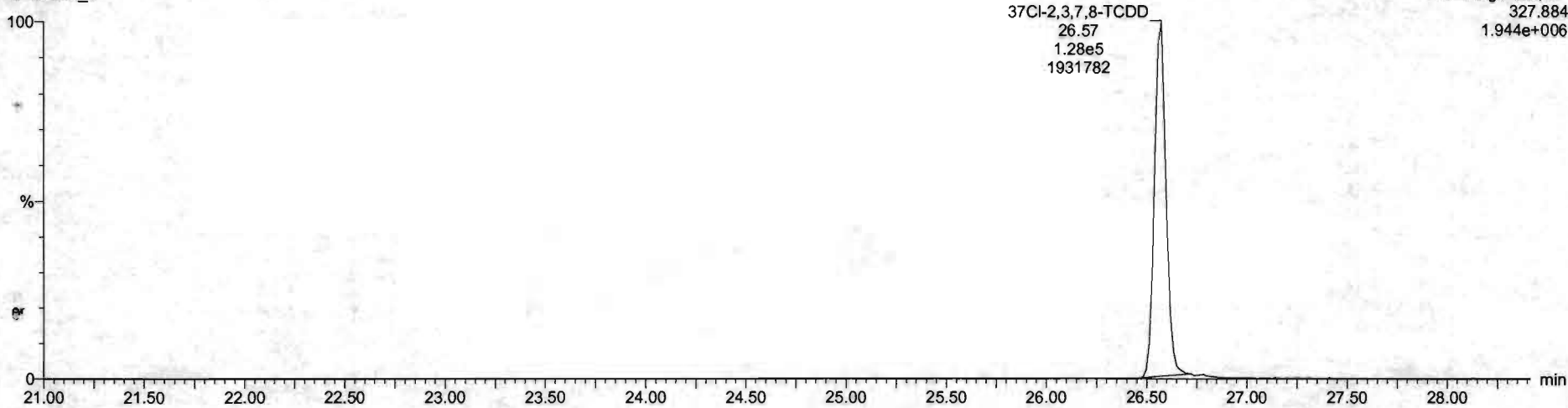
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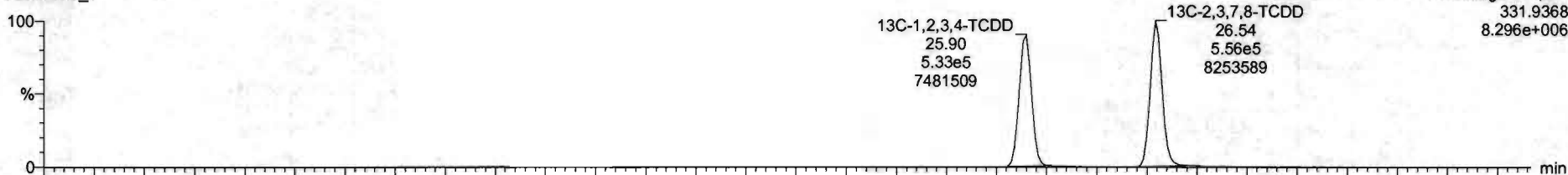
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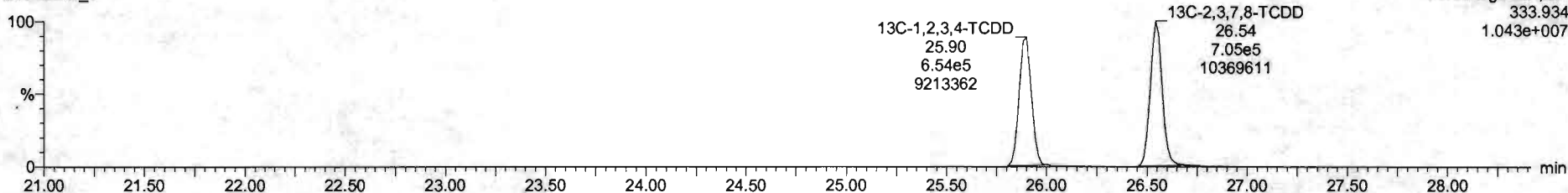


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200528R2_8



200528R2_8



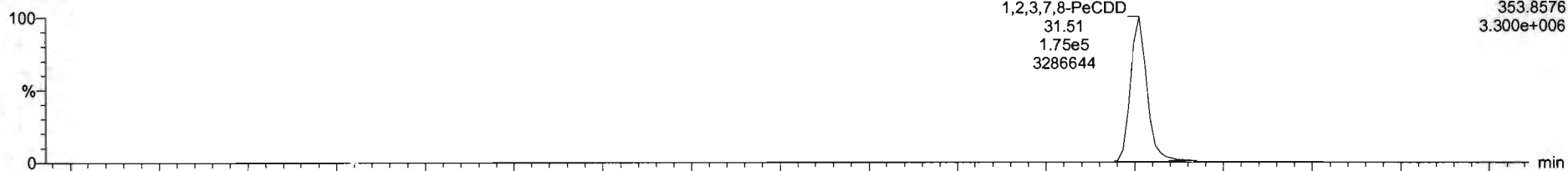
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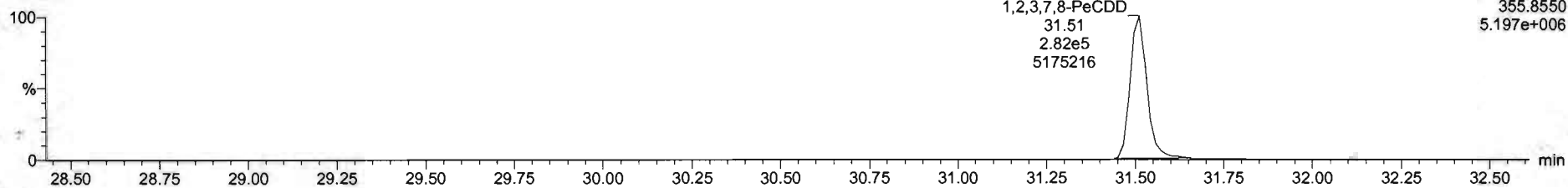
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1,2,3,7,8-PeCDD

200528R2_8

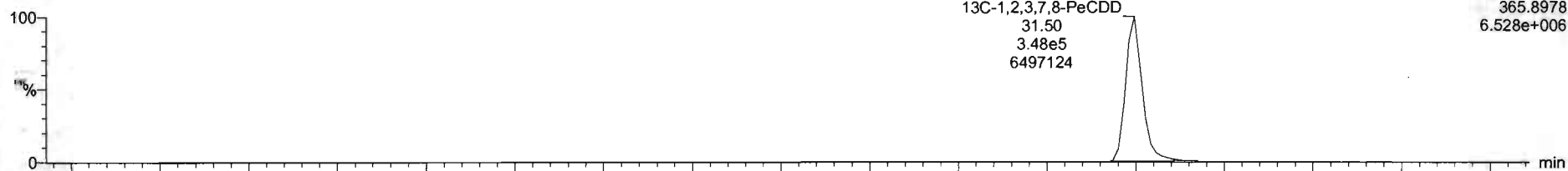


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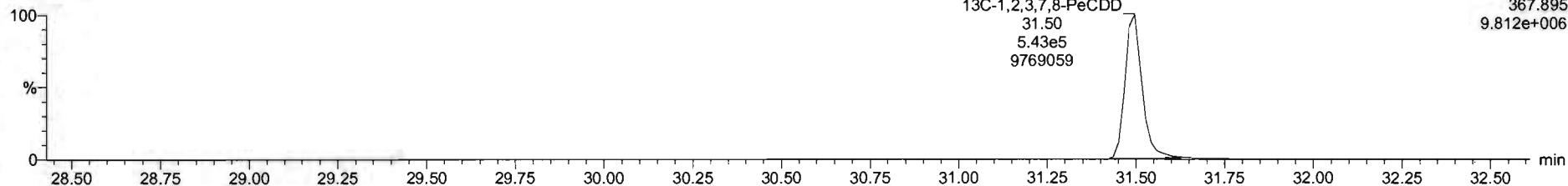


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200528R2_8



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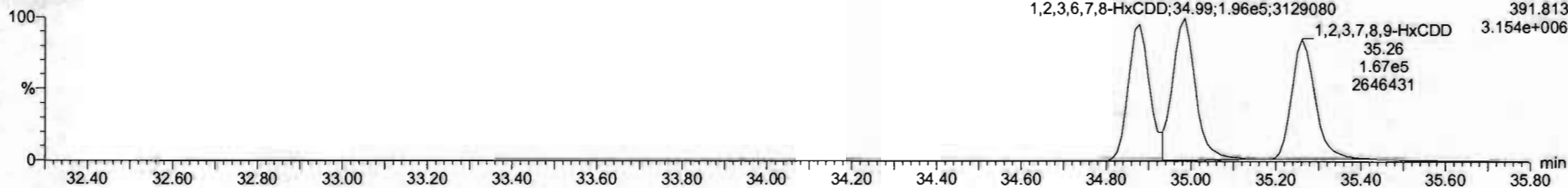
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1,2,3,4,7,8-HxCDD

200528R2_8

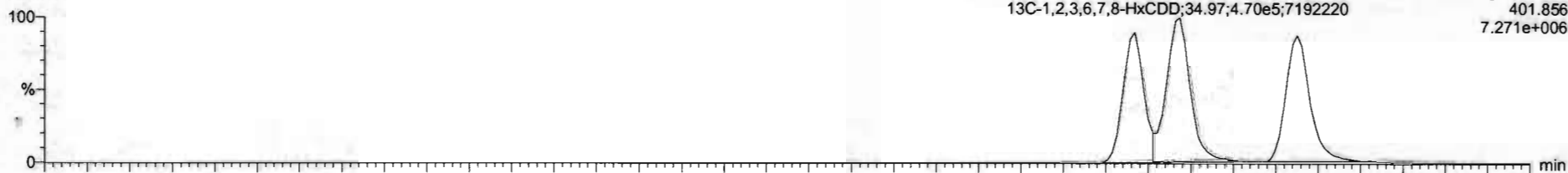


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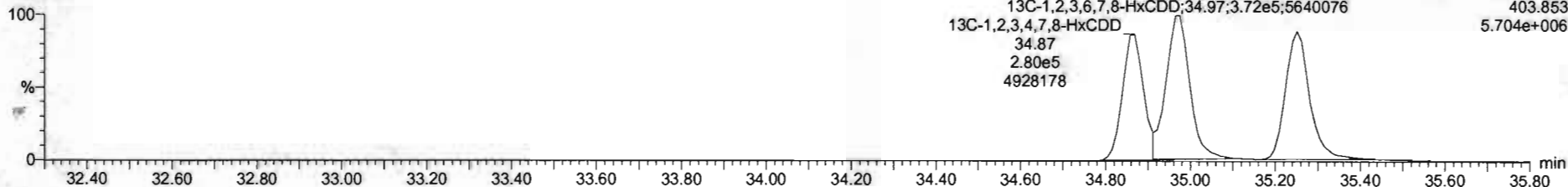


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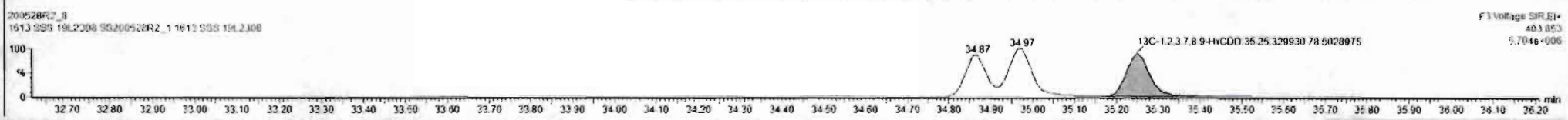
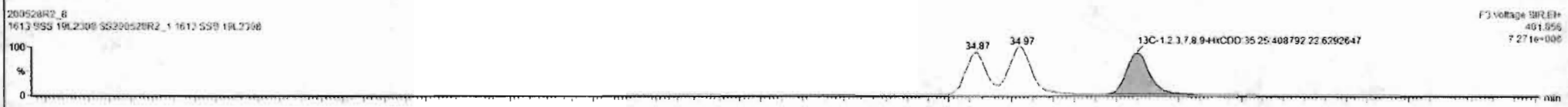
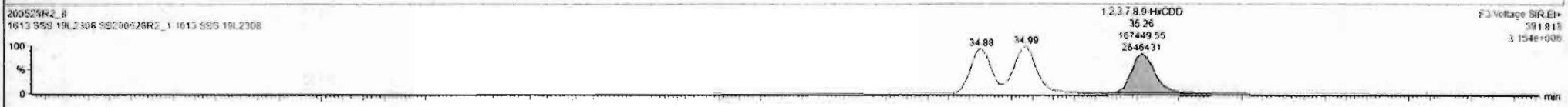
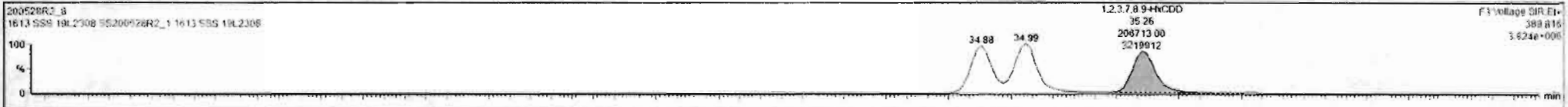
200528R2_8



200528R2_8



#	Name	Resp	RA	nby	RRF	wthvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.6883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.72	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.6969	1.000	35.26	1.009	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.57e5	1.02	NO	0.8639	1.000	36.50	1.000	55.6	112	0.160	55.6
7	OCDD	5.24e5	0.85	NO	0.9136	1.000	41.78	1.001	113	113	0.171	113
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	113	0.0942	55.7
10	2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	21.21	1.000	62.1	124	0.0853	62.1
11	1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	115	0.114	58.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8892	1.000	34.12	1.000	59.1	116	0.108	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.52e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	115	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.190	59.2
17	OCDF	5.22e5	0.97	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1583	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7750	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.28	NO	1.0187	1.000	34.97	1.017	88.7	88.7	0.136	



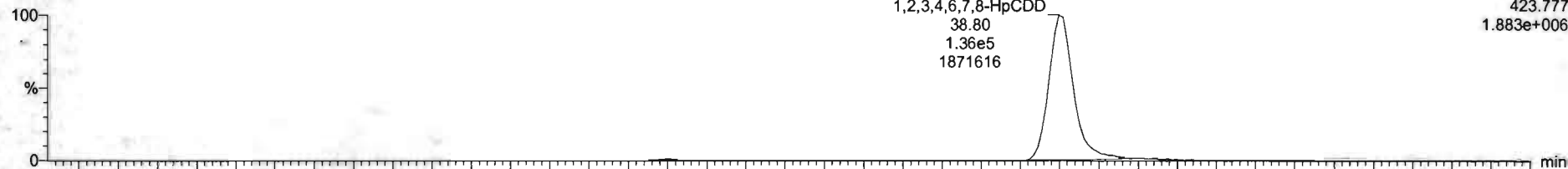
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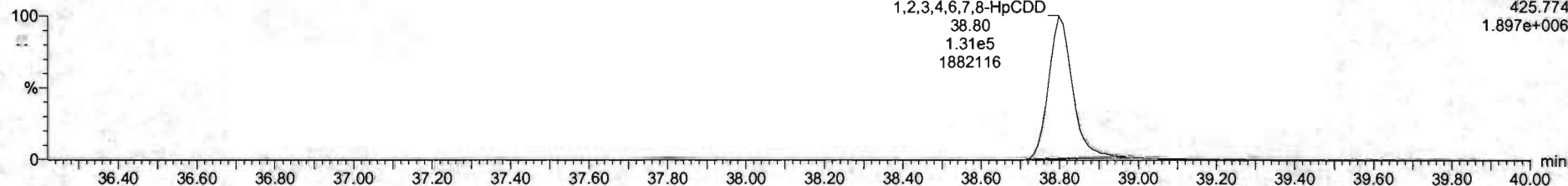
1,2,3,4,6,7,8-HpCDD

200528R2_8



F4:Voltage SIR,EI+
423.777
1.883e+006

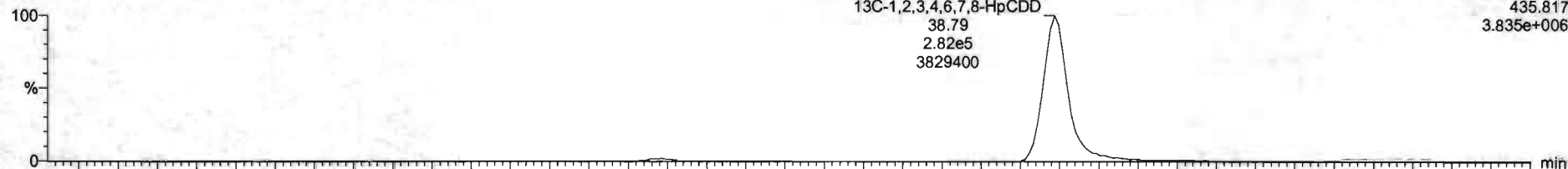
200528R2_8



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1.897e+006

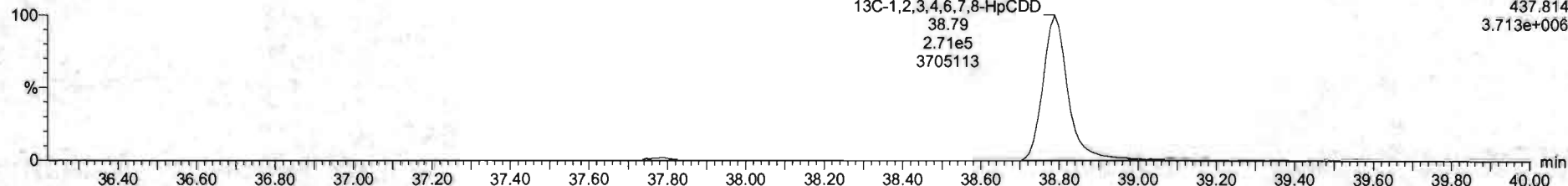
13C-1,2,3,4,6,7,8-HpCDD

200528R2_8



F4:Voltage SIR,EI+
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3.835e+006

200528R2_8



F4:Voltage SIR,EI+
437.814
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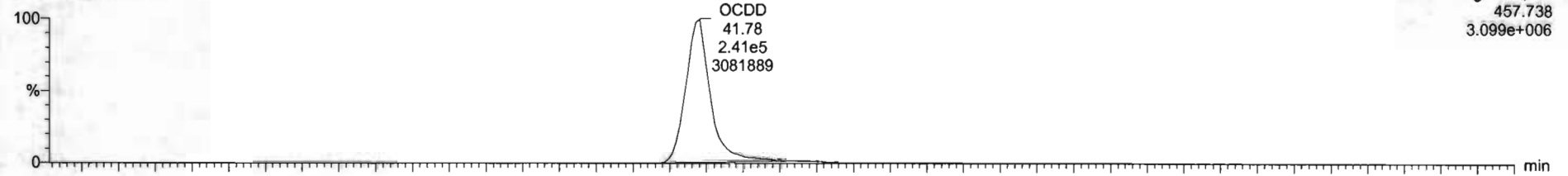
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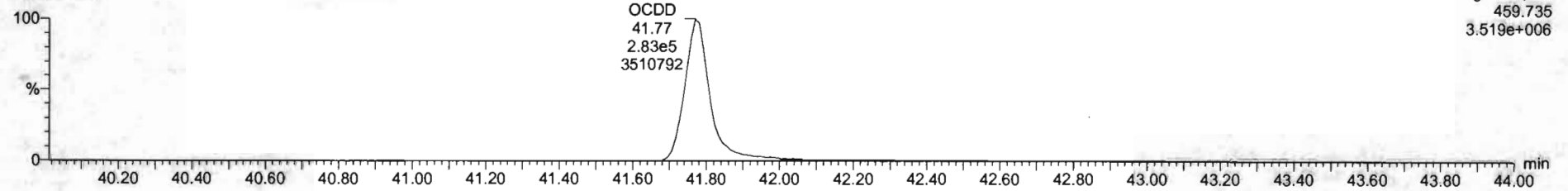
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OCDD

200528R2_8

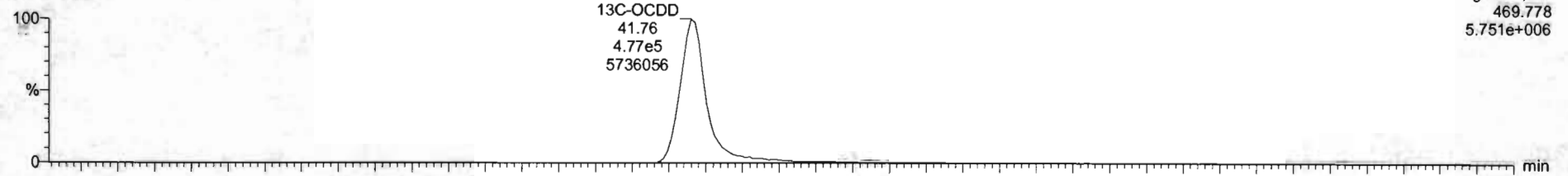


200528R2_8

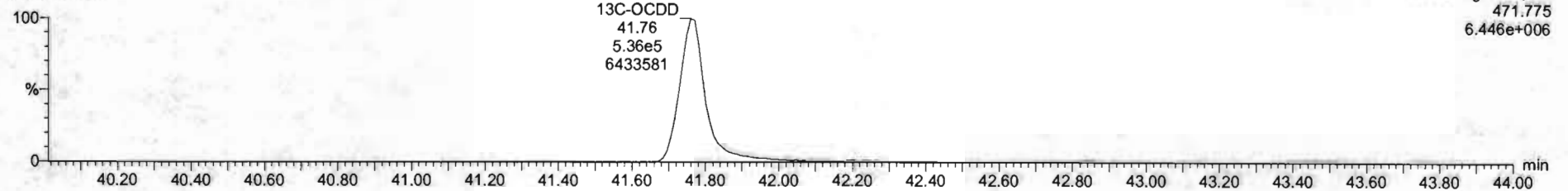


13C-OCDD

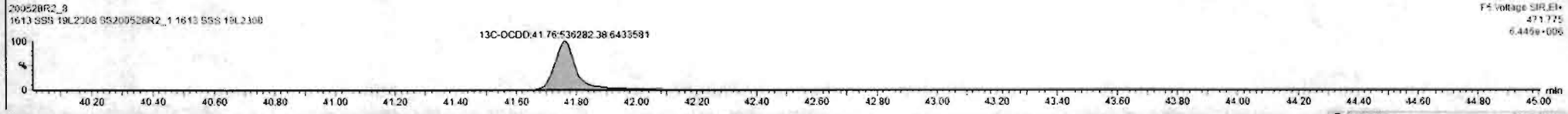
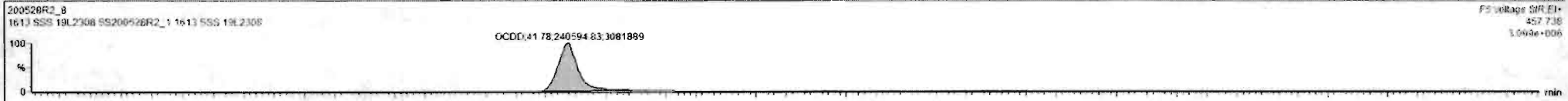
200528R2_8



200528R2_8



Name	Resp	RA	dy	RRF	wtVol	RT	RRT	Conc	%Rec	OL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.1
3 1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	58.0
4 1,2,3,6,7,8-HxCDD	4.38e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	56.6
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.88	NO	0.9138	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.46e5	0.75	NO	0.7510	1.000	25.88	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.77e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10 2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	31.21	1.000	62.1	124	0.0853	62.1
11 1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8545	1.000	33.99	1.000	58.9	115	0.114	58.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8852	1.000	34.12	1.000	59.1	115	0.100	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.21	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	119	0.193	59.2
17 OCDF	5.22e5	0.87	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0627	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



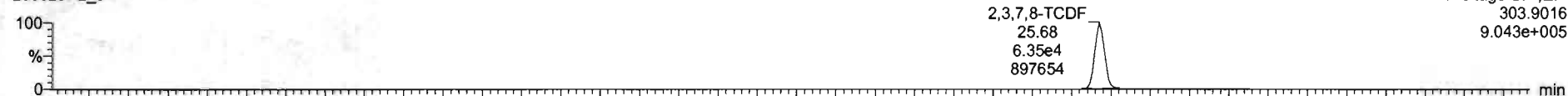
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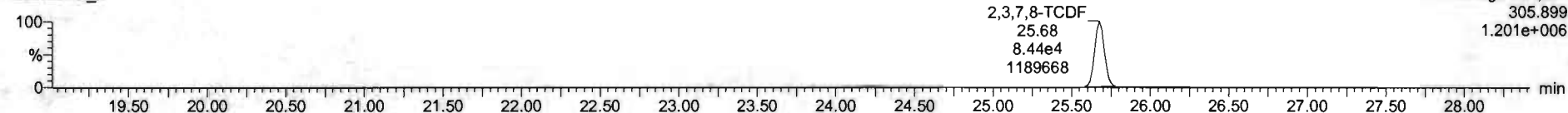
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2,3,7,8-TCDF

200528R2_8

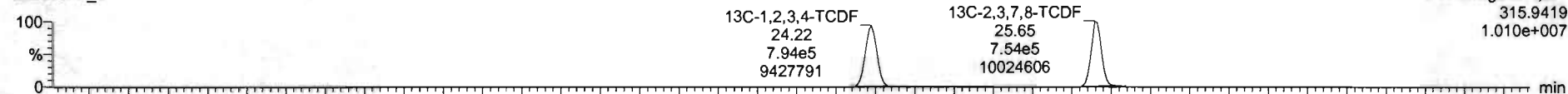


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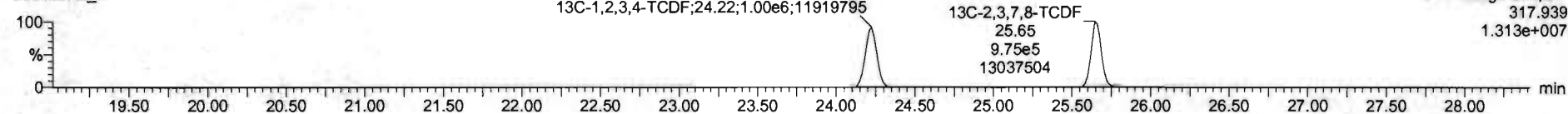


13C-2,3,7,8-TCDF

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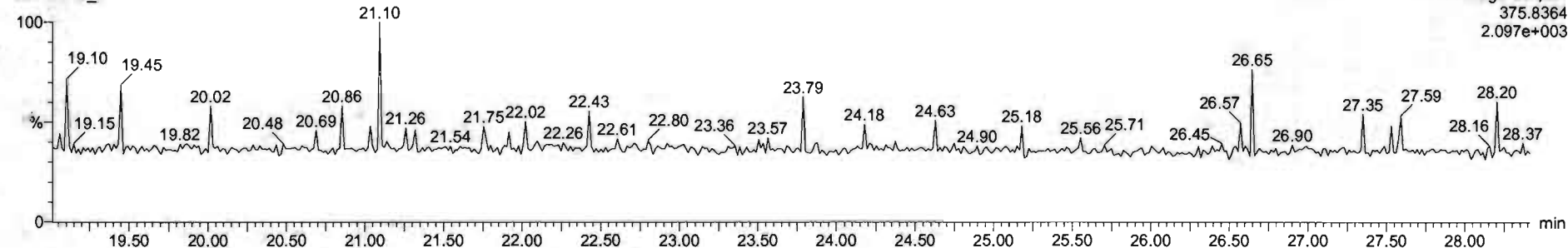


200528R2_8



DPE1

200528R2_8



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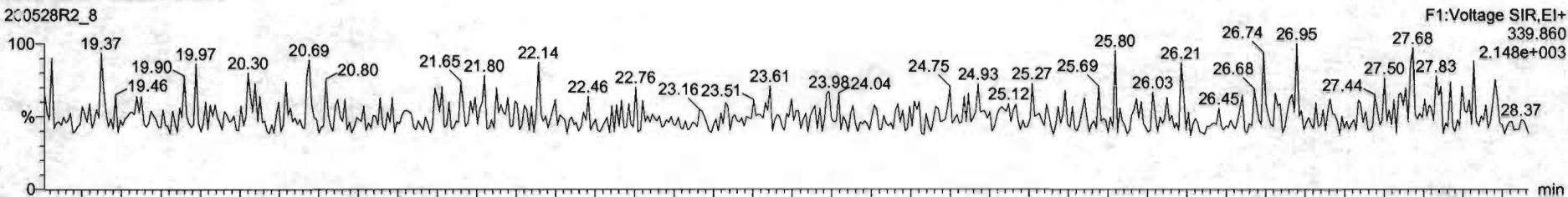
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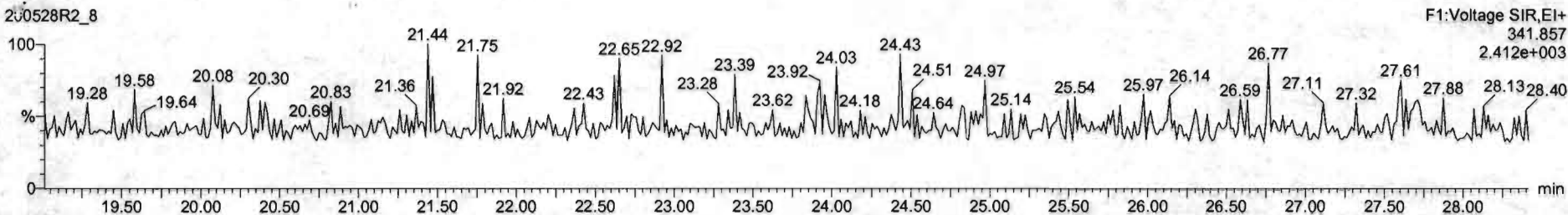
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200528R2_8

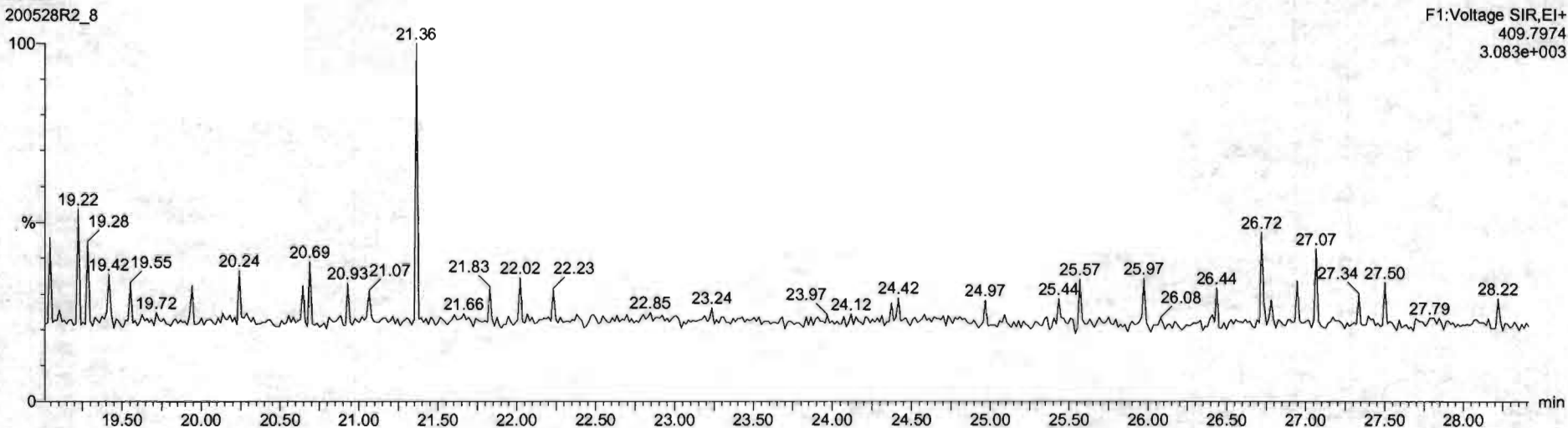


200528R2_8



DPE6

200528R2_8



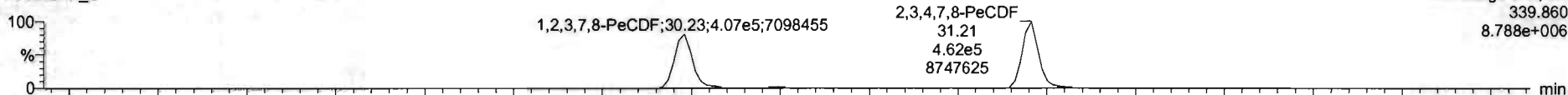
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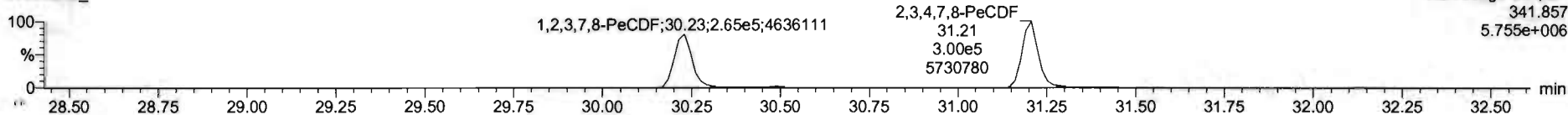
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1,2,3,7,8-PeCDF

200528R2_8

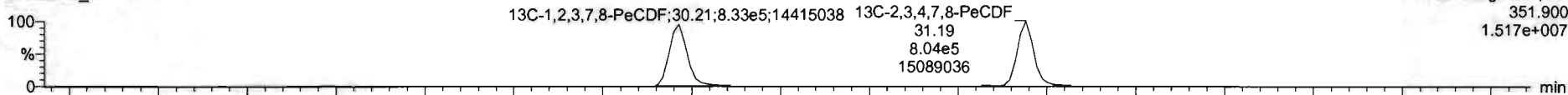


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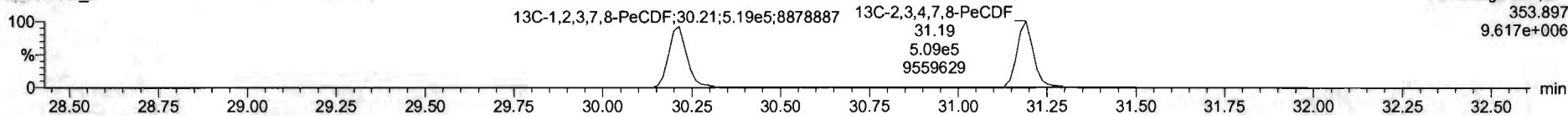


13C-1,2,3,7,8-PeCDF

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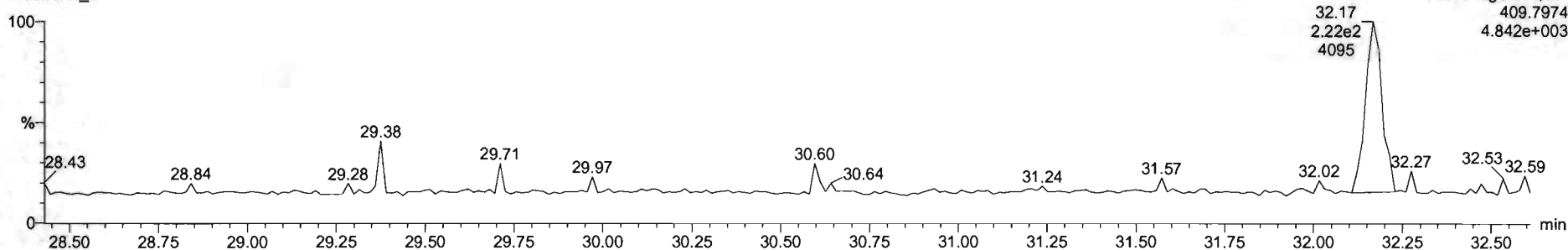


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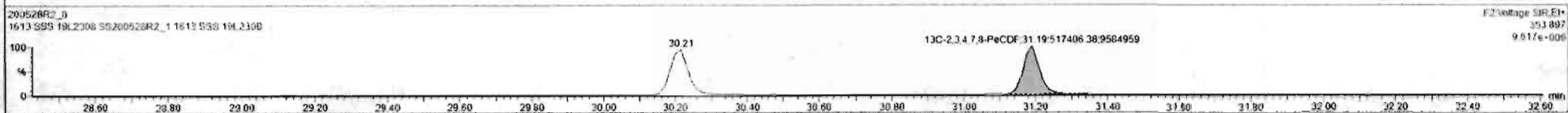
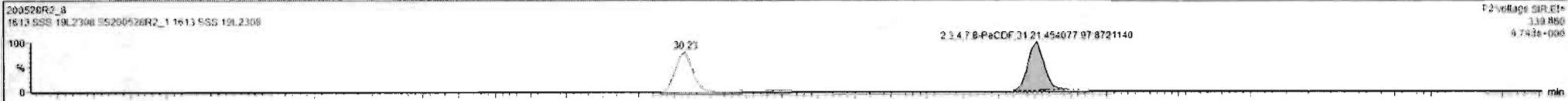


DPE2

200528R2_8



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.85	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	34.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8264	1.000	35.05	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.87e5	1.02	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.38	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0323	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	20.23	1.001	55.7	111	0.0947	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.36e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	118	0.114	56.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8852	1.000	34.12	1.000	59.1	118	0.108	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.128	



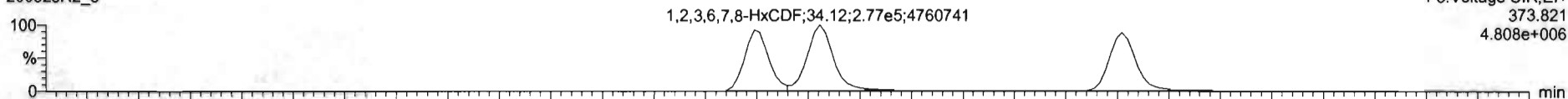
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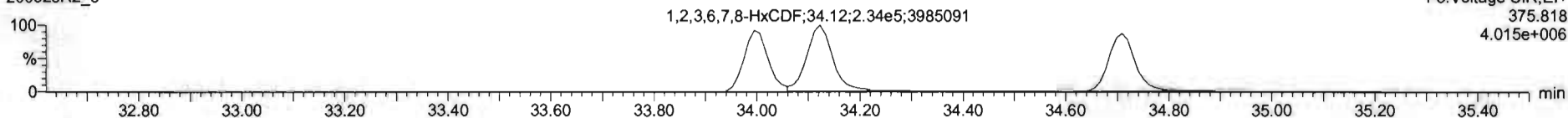
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200528R2_8

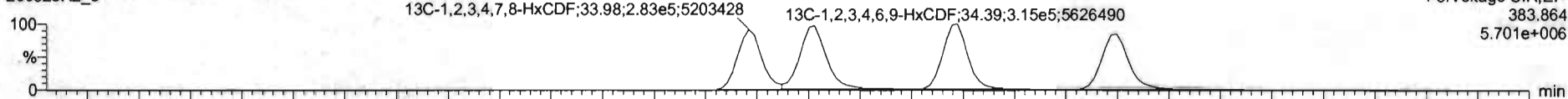


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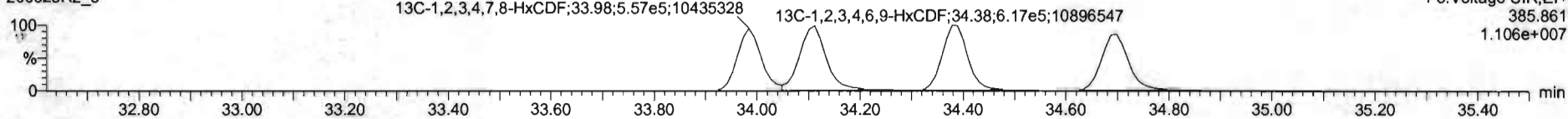


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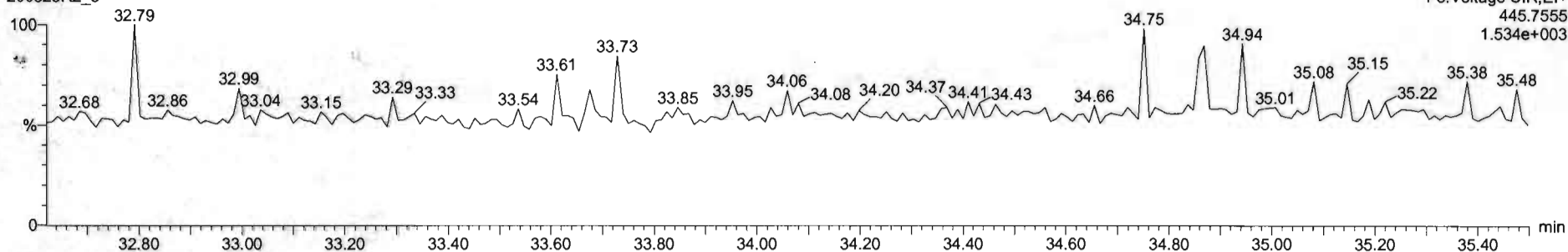


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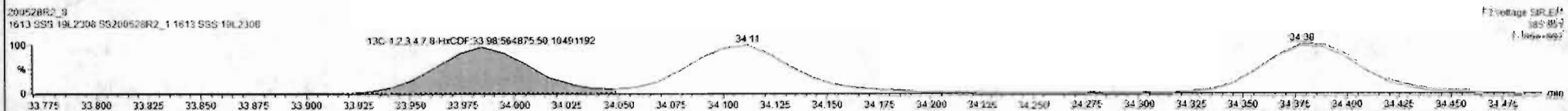
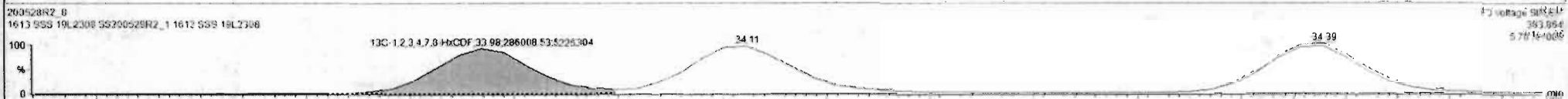
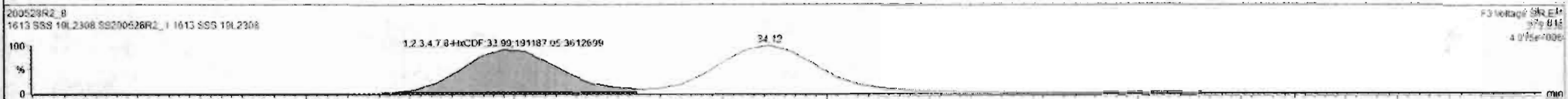
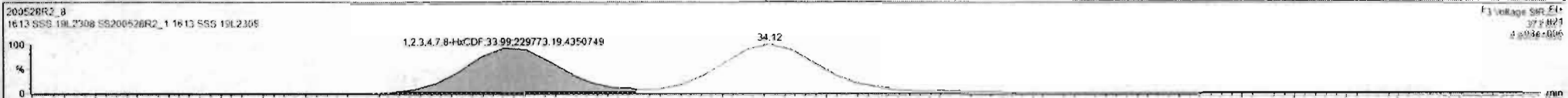


DPE3

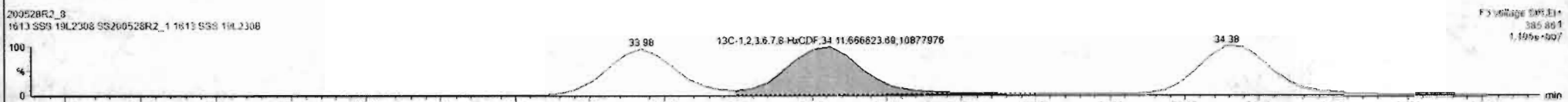
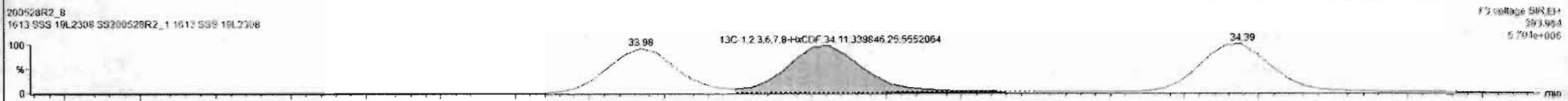
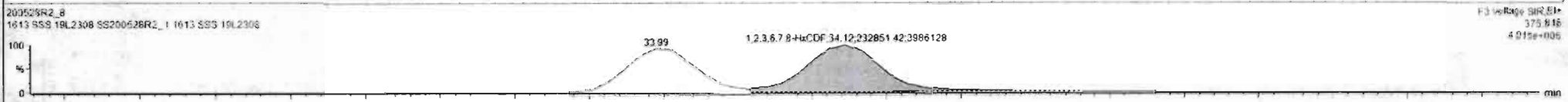
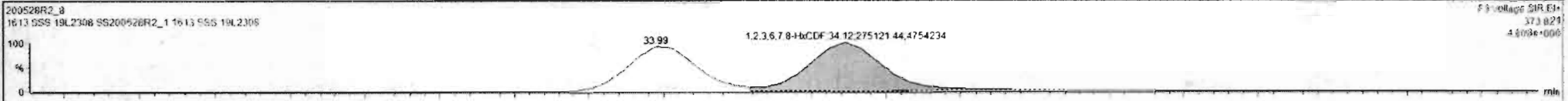
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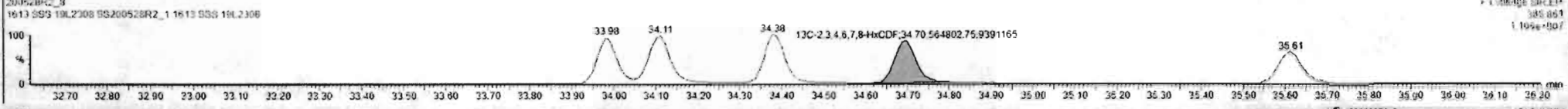
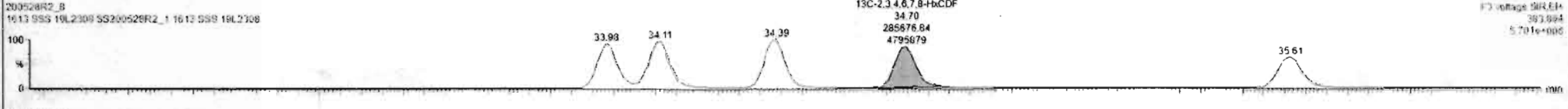
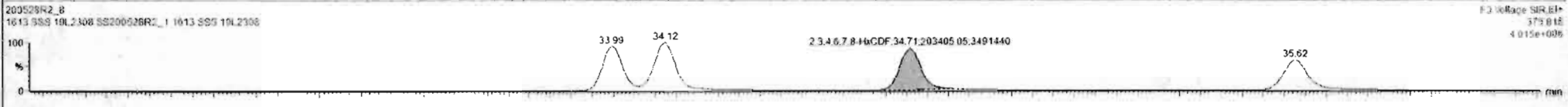
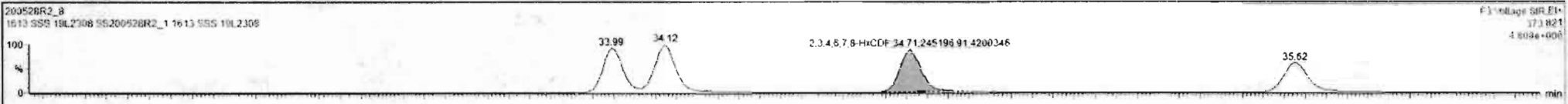
Name	Resp	RA	nly	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.8981	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	24.86	1.000	56.0	116	0.1011	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8929	1.000	24.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	25.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	26.50	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.68	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7519	1.000	25.65	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10 1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9346	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	23.99	1.000	55.9	112	0.119	55.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8882	1.000	24.12	1.000	59.1	118	0.100	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	24.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	27.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0120	1.000	39.34	1.000	59.2	118	0.199	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	85.6	88.6	0.160	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.36	NO	1.0187	1.000	24.97	1.017	88.7	88.7	0.138	



Name	Reap	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.67	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.53	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8973	1.000	34.99	1.000	58.0	116	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8969	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,5,7,8-HpCDD	2.67e5	1.02	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0542	55.7
10 1,2,3,7,8,9-HxCDF	7.50e5	1.54	NO	0.9348	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.6845	1.000	23.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.06e5	1.18	NO	0.6892	1.000	34.12	1.000	56.3	114	0.127	56.3
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.76e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.5	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.176	



Name	Resp	RA	Adj	RF	WVol	RT	RRT	Conc	%Rec	DL	EMFC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.66e5	1.22	NO	1.0314	1.000	34.88	1.000	56.0	116	0.101	58.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.100	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8039	1.000	38.80	1.000	55.8	112	0.160	55.8
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.66	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10 1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9146	1.000	31.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8545	1.000	33.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.06e5	1.16	NO	0.8262	1.000	34.12	1.000	56.8	114	0.107	56.8
13 2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.196	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.75	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0637	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.84	NO	0.8490	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



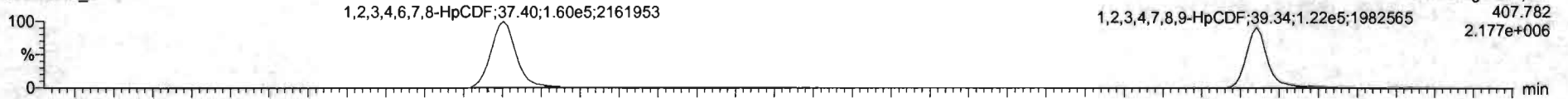
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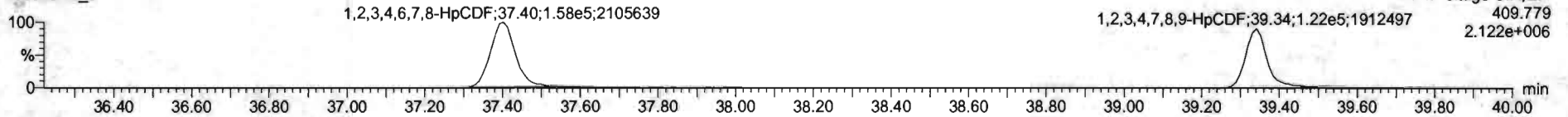
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200528R2_8



200528R2_8

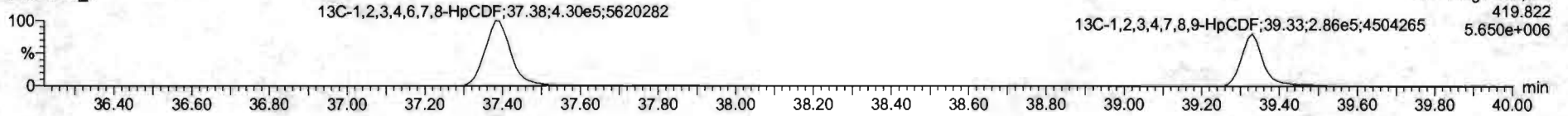


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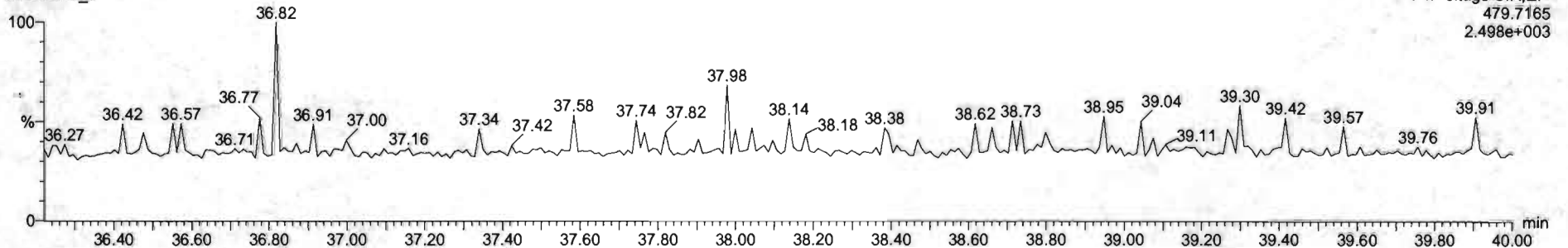


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DPE4

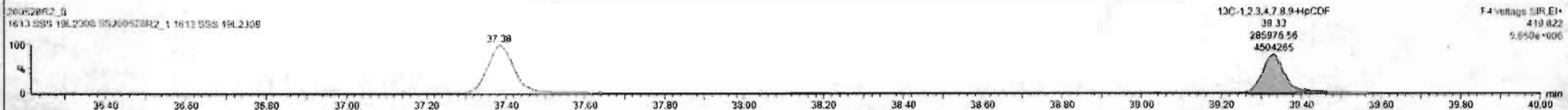
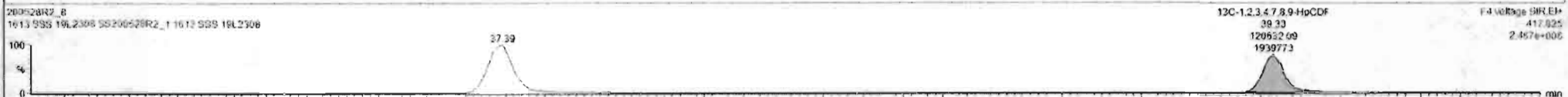
200528R2_8



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2	1,2,3,7,8-PeCDD	5.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	58.4
3	1,2,3,4,7,8-HxCDD	3.56e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8523	1.000	34.99	1.000	58.0	118	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0533	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8025	1.000	30.21	1.001	25.7	111	0.0542	25.7
10	2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	50.2	120	0.0851	60.2
11	1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	33.95	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.8862	1.000	34.12	1.000	56.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.45e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.48	1.000	54.5	108	0.152	54.5
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.09	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17	OCDF	5.27e5	0.87	NO	0.8055	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e8	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0637	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	66.5	68.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.0167	1.000	34.97	1.017	86.7	86.7	0.138	



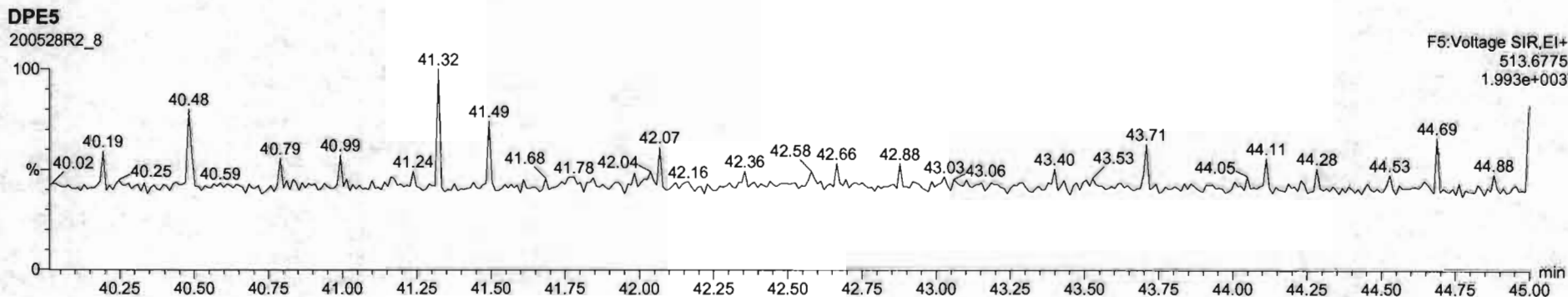
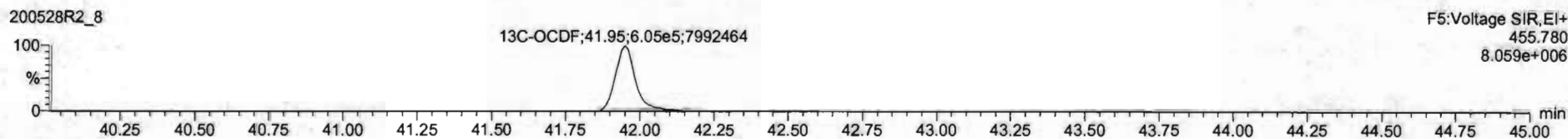
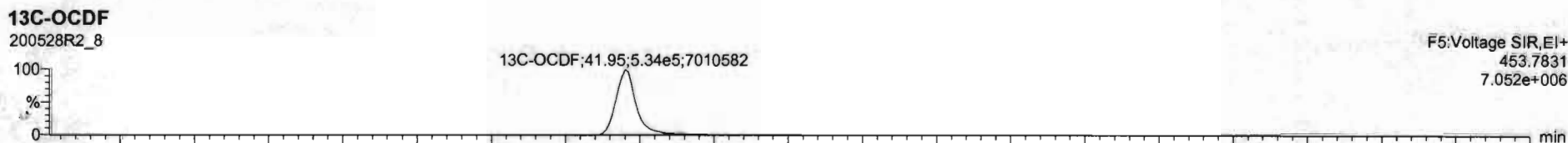
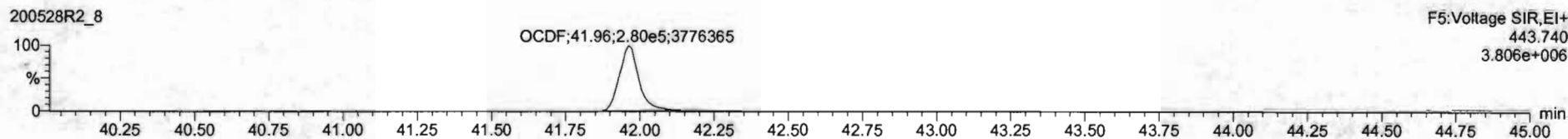
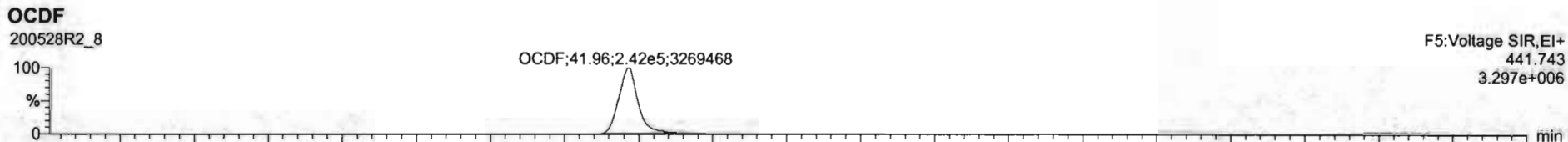
SL	Name	Resp	RA	nfy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.82	NO	0.9081	1.000	31.01	1.000	58.4	113	0.0622	58.4
3	1,2,3,4,7,8-HxCDD	2.56e5	1.22	NO	1.0334	1.000	24.86	1.000	58.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	24.99	1.000	58.0	116	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	26.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.61e5	1.03	NO	0.8639	1.000	26.60	1.000	58.6	112	0.168	58.6
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0303	11.4
9	1,2,3,7,8-PeCDF	4.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10	2,3,4,7,8-PeCDF	7.58e5	1.54	NO	0.9346	1.000	31.21	1.000	50.2	126	0.0851	60.2
11	1,2,2',4,7,8-HxCDF	4.21e5	1.20	NO	0.8545	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	2.08e5	1.18	NO	0.8892	1.000	34.12	1.000	58.8	114	0.107	58.8
13	2,3,4,6,7,8-HxCDF	4.48e5	1.21	NO	0.9341	1.000	24.71	1.000	58.5	113	0.117	58.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.82	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.40	1.000	54.5	109	0.182	54.5
16	1,2,3,4,7,8,9-HpCDF	2.35e5	1.00	NO	1.0128	1.000	39.24	1.000	57.3	115	0.198	57.3
17	OCDF	5.27e5	0.67	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	88.6	88.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	24.97	1.017	88.7	88.7	0.138	



Dataset: Untitled

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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

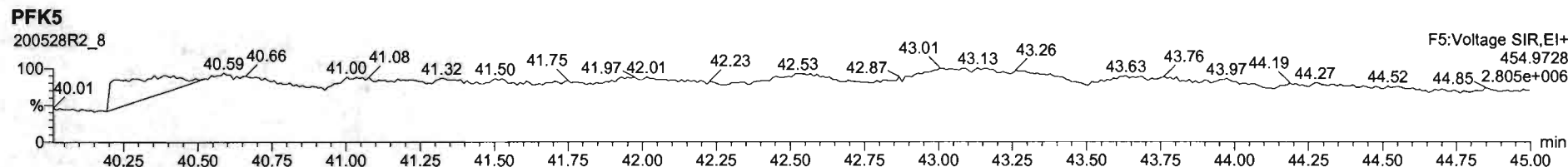
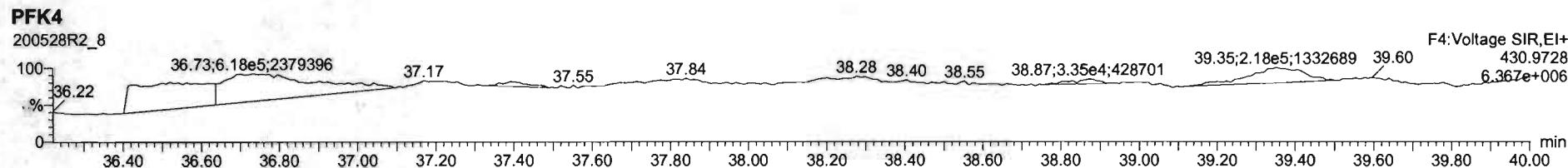
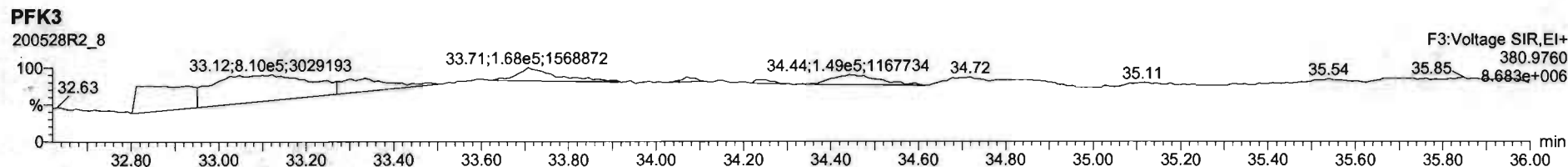
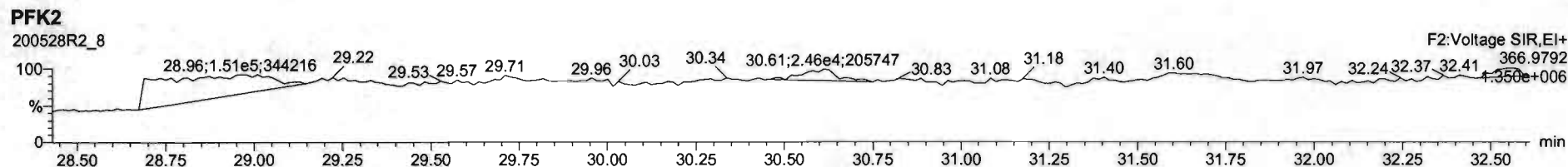
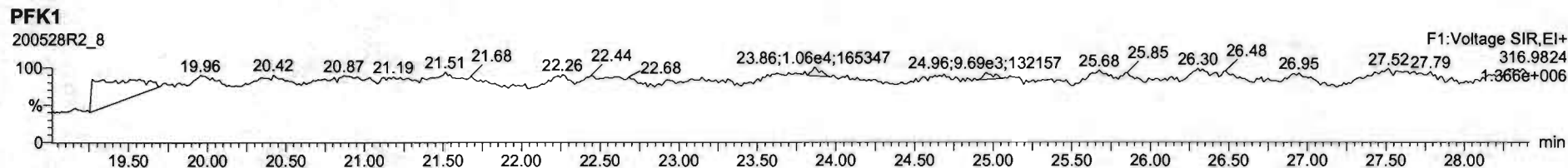
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Dataset: Untitled

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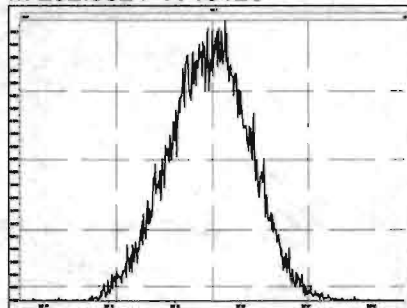
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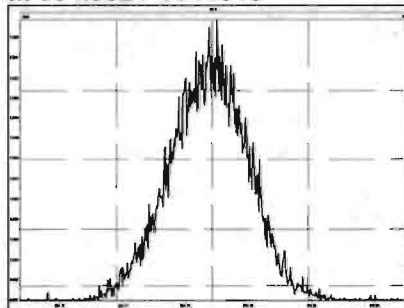
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Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

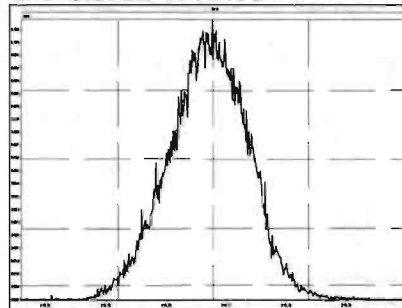
M 292.9824 R 10120



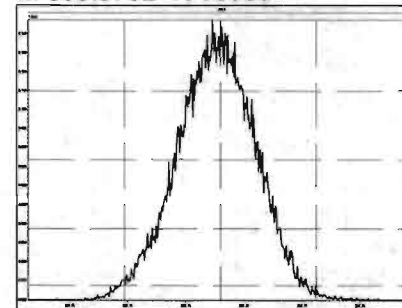
M 304.9824 R 11015



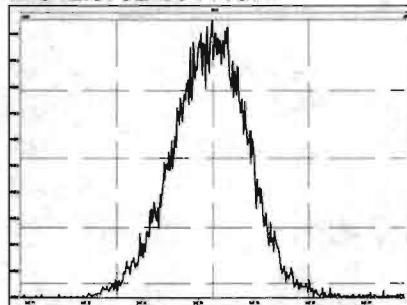
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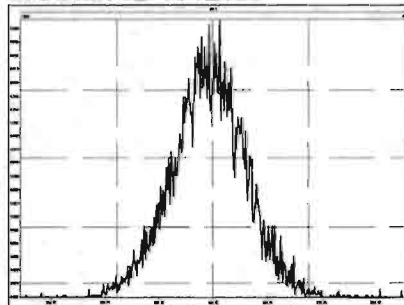
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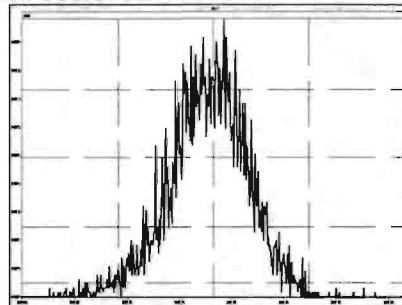
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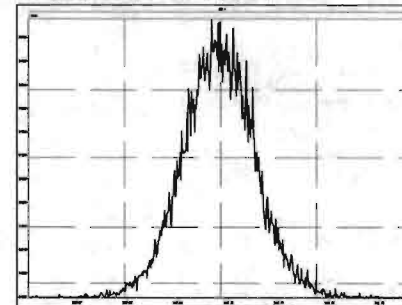
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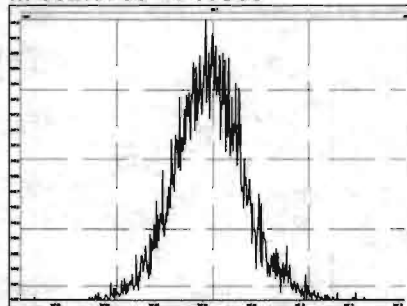
M 366.9792 R 12311



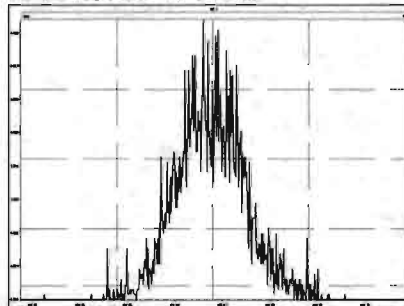
M 380.9760 R 11904



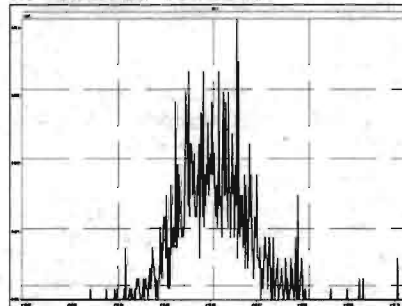
M 392.9760 R 13589



M 404.9760 R 14045



M 416.9760 R 18245



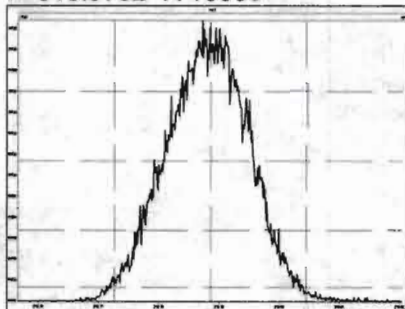
Experiment Calibration Report

MassLynx 4.1 SCN815

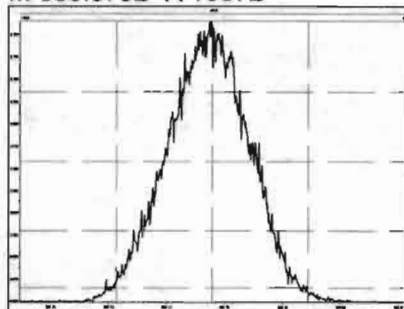
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Printed: Friday, May 29, 2020 07:19:21 Pacific Daylight Time

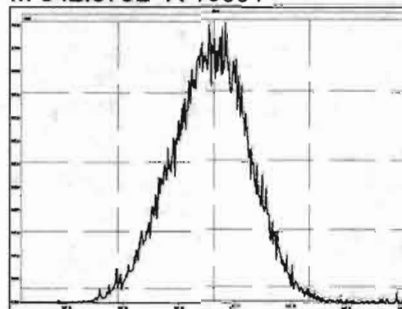
M 318.9792 R 10000



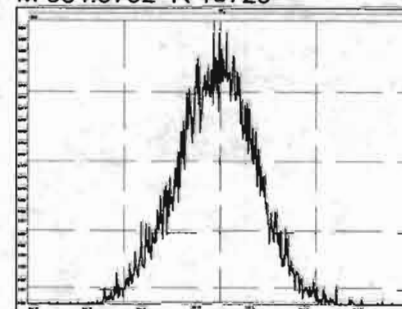
M 330.9792 R 10372



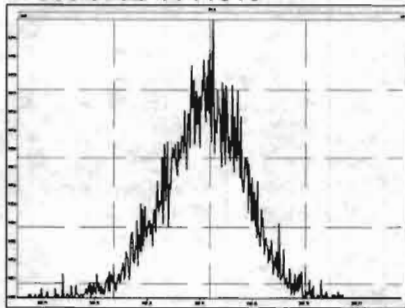
M 342.9792 R 10001



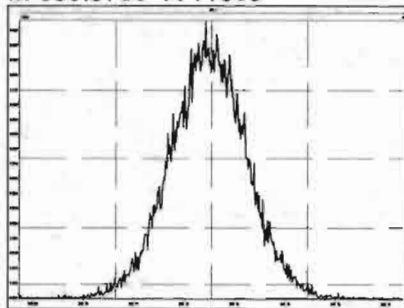
M 354.9792 R 10729



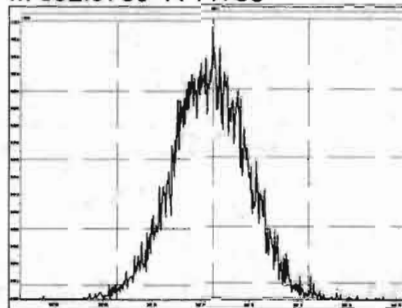
M 366.9792 R 11015



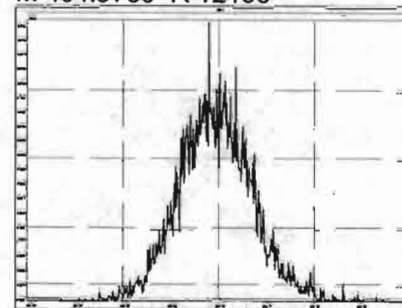
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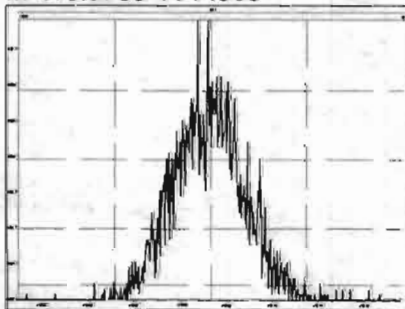
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M 404.9760 R 12196



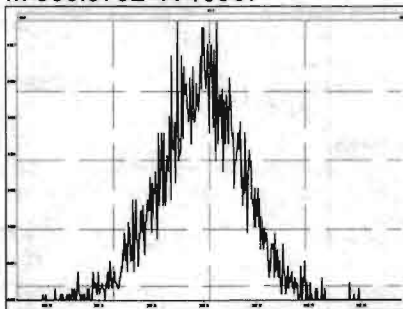
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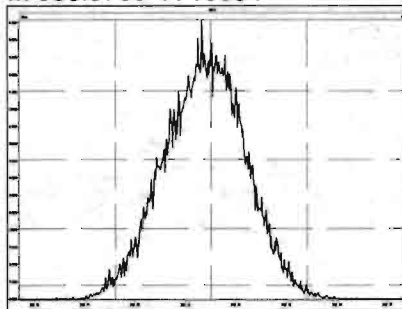
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Printed: Friday, May 29, 2020 07:19:38 Pacific Daylight Time

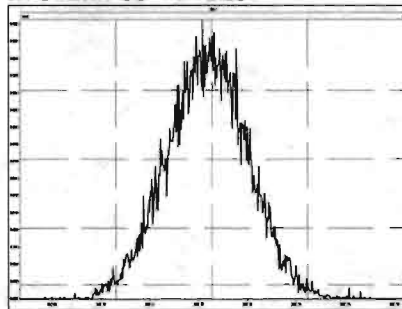
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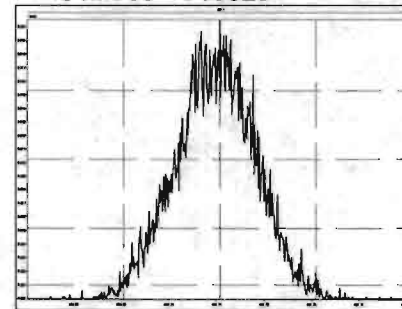
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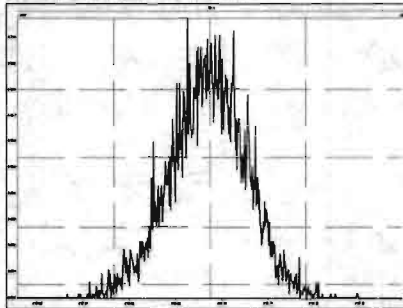
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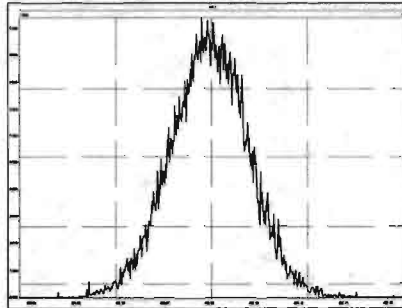
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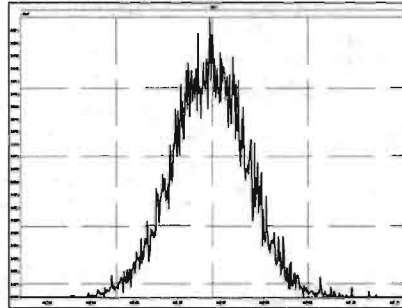
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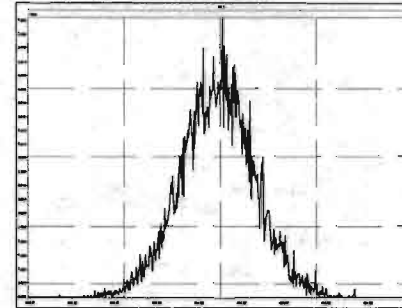
M 430.9728 R 11208



M 442.9728 R 12195



M 454.9728 R 10963



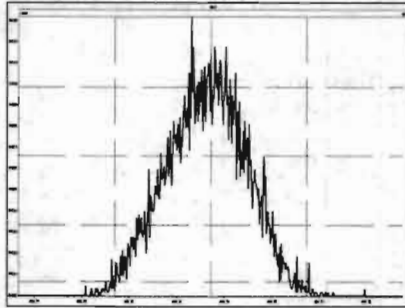
Experiment Calibration Report

MassLynx 4.1 SCN815

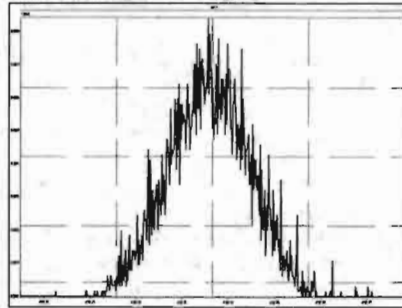
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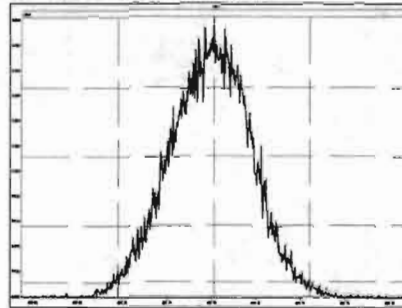
M 404.9760 R 10963



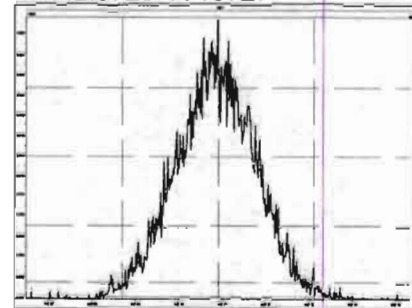
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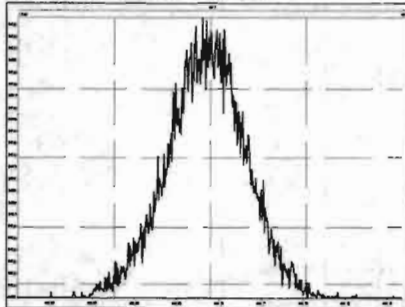
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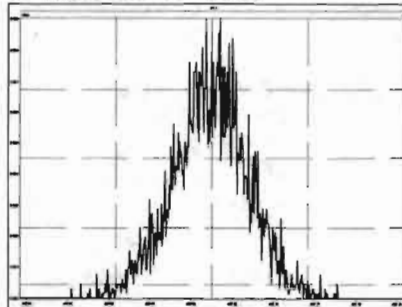
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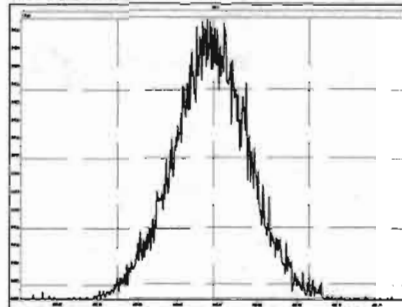
M 454.9728 R 11792



M 466.9728 R 12628



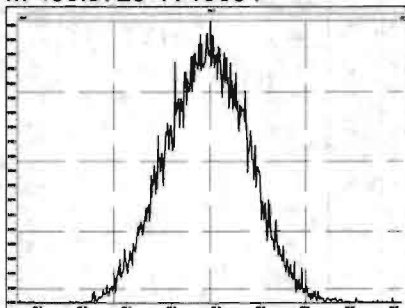
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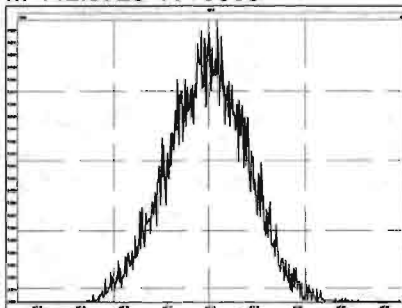
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Printed: Friday, May 29, 2020 07:20:18 Pacific Daylight Time

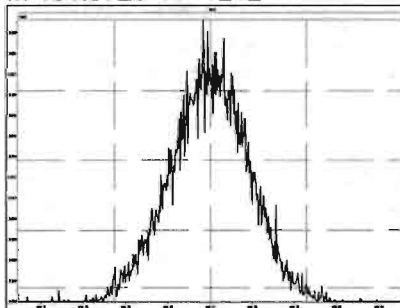
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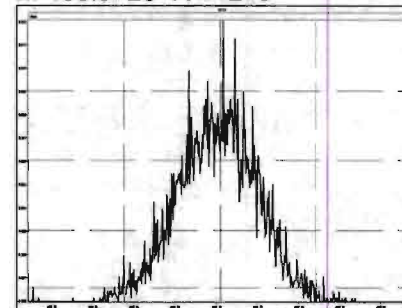
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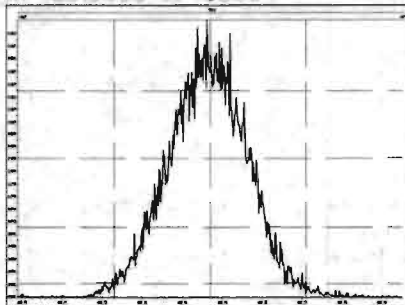
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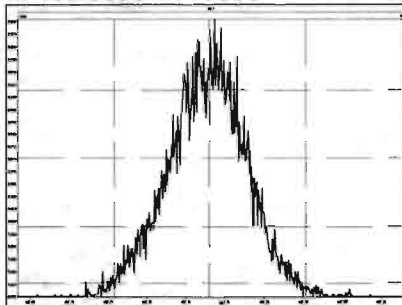
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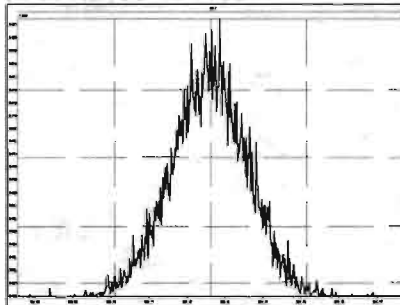
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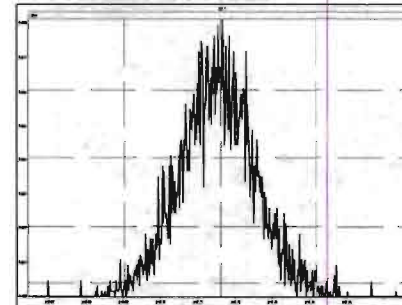
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M 504.9696 R 11681



M 516.9697 R 11905



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 02/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

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

Response Factor: 0.9819
RRF SD: 0.0791981, Relative SD: 8.06581
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.08271
RRF SD: 0.0939058, Relative SD: 8.67318
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Vista Analytical Laboratory VG-9

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

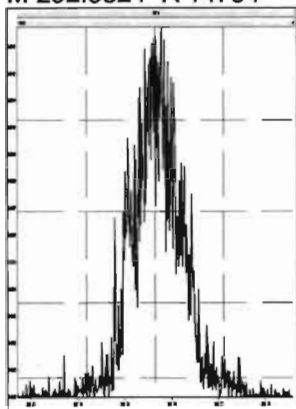
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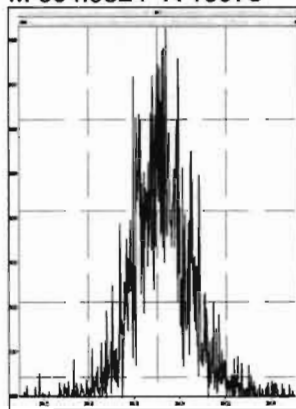
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2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
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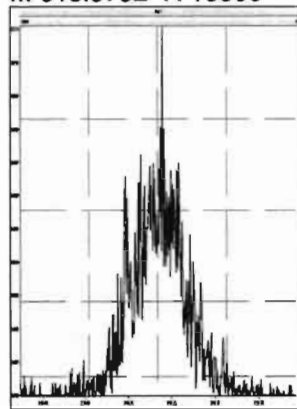
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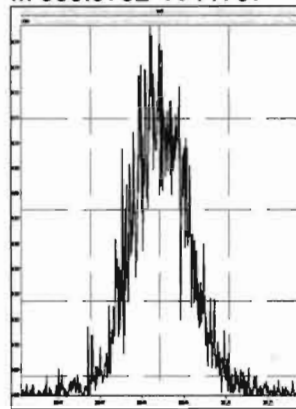
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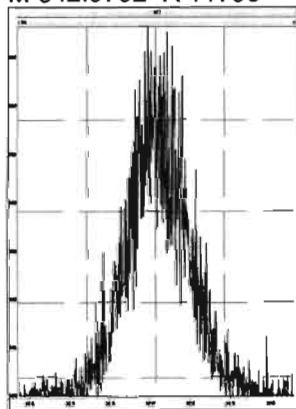
M 318.9792 R 15503



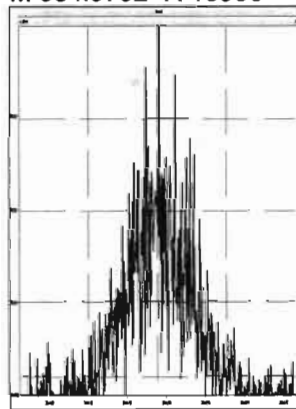
M 330.9792 R 11737



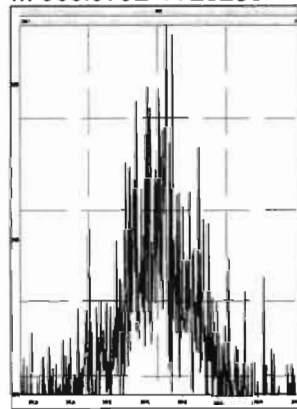
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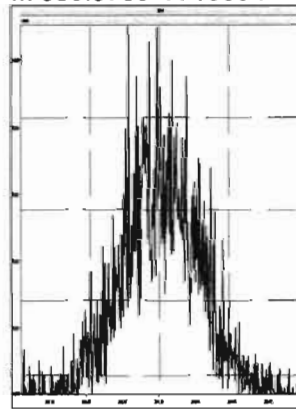
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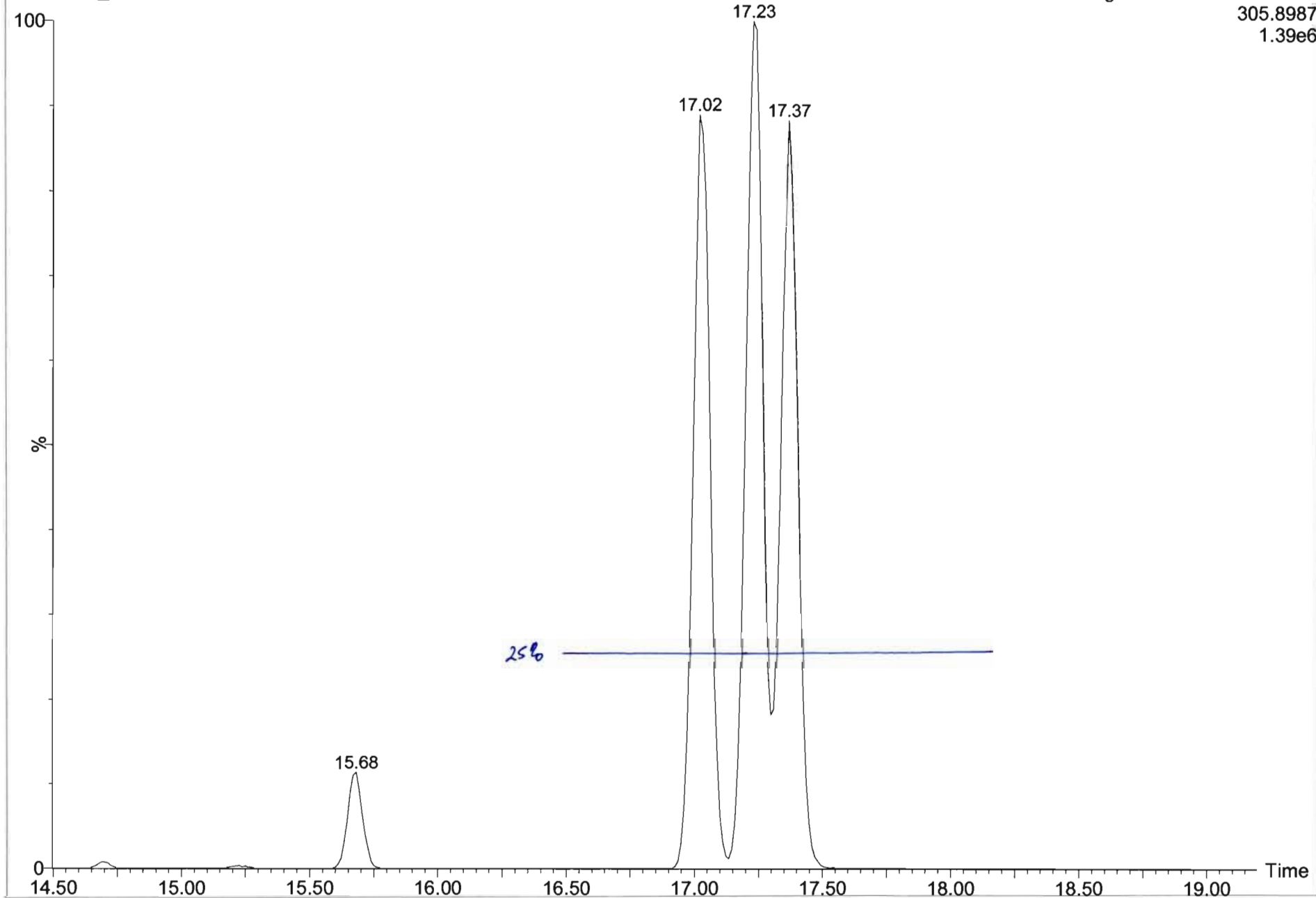


M 366.9792 R 28256



M 380.9760 R 13094





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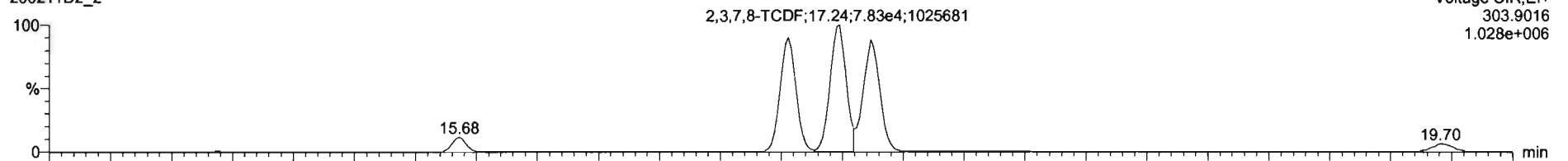
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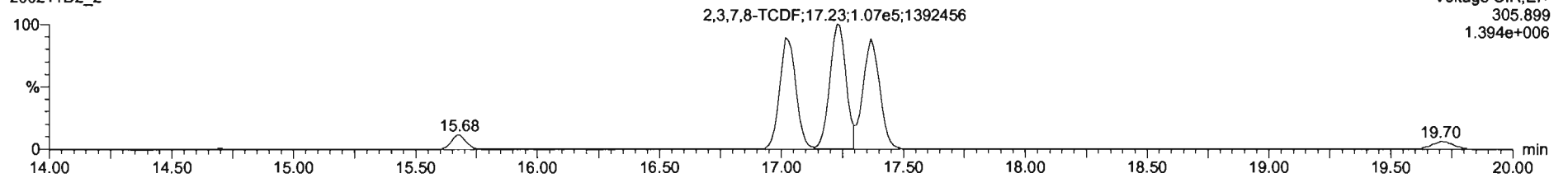
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2,3,7,8-TCDF

200211D2_2

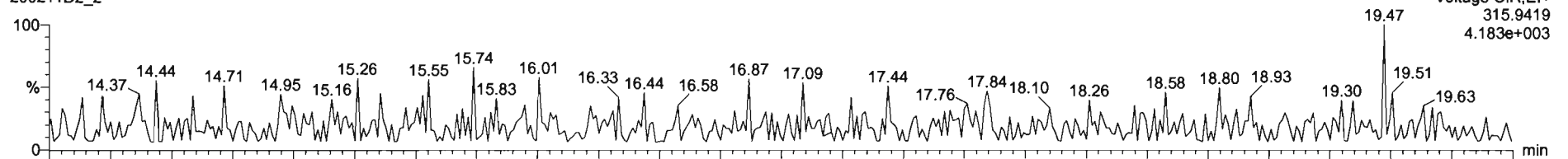


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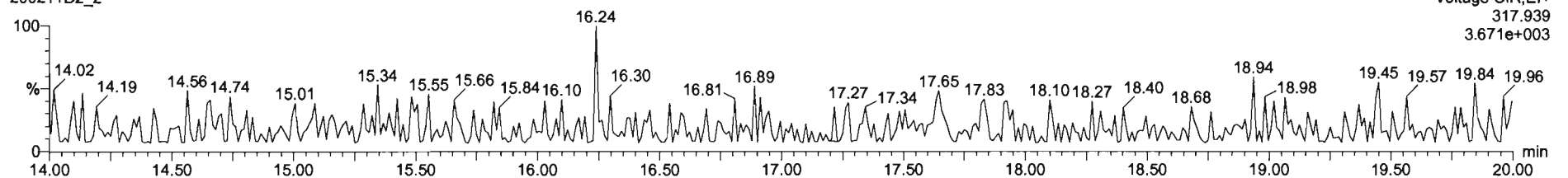


13C-2,3,7,8-TCDF

200211D2_2



200211D2_2

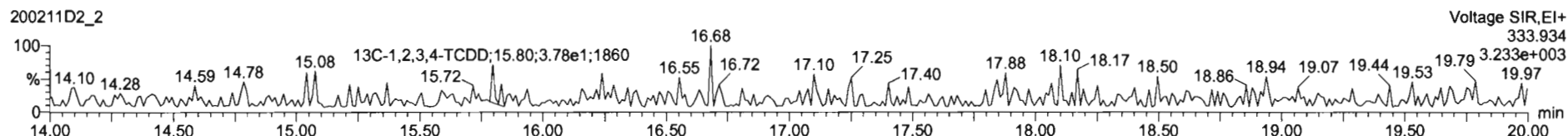
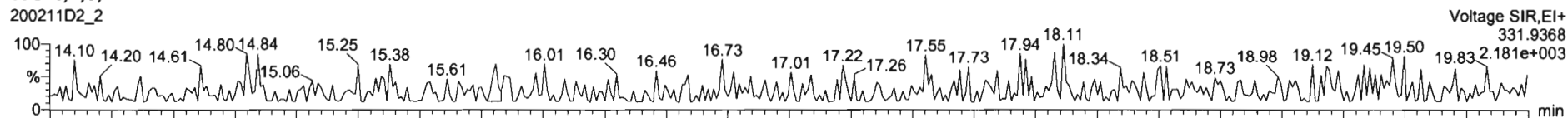


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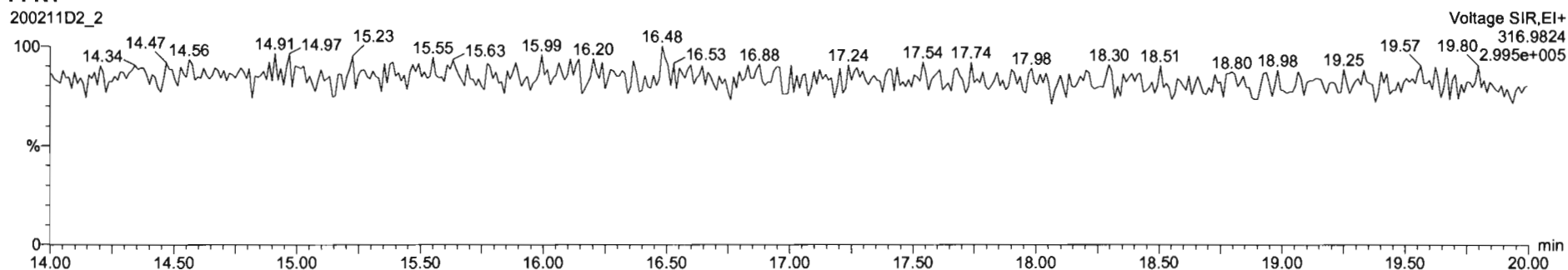
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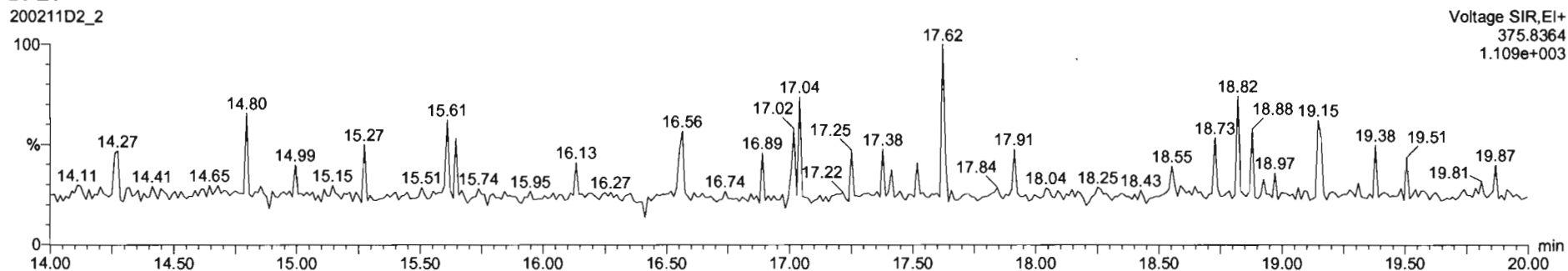
13C-1,2,3,4-TCDD



PFK1



DPE1



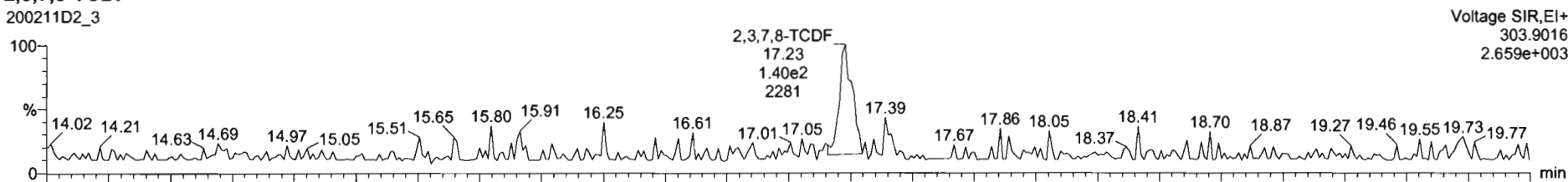
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

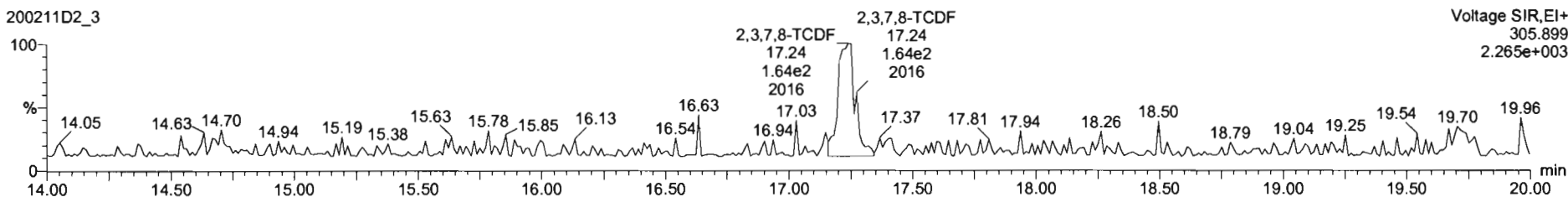
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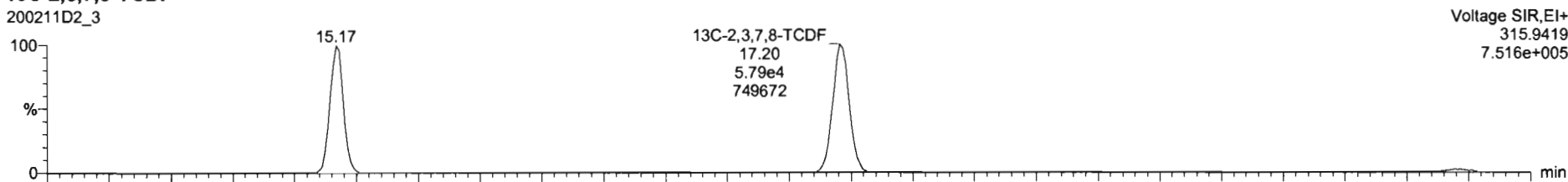
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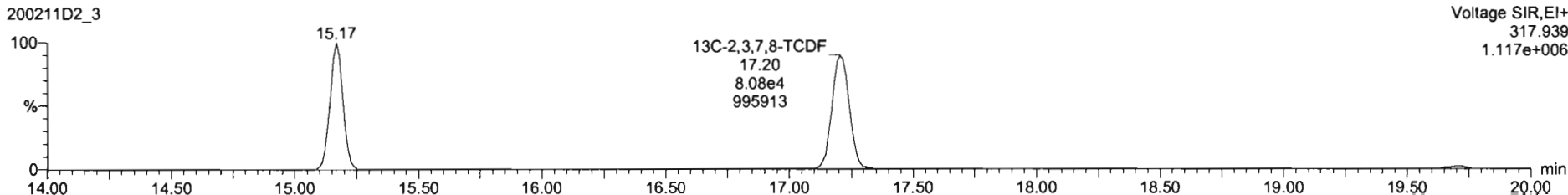
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13C-2,3,7,8-TCDF
200211D2_3



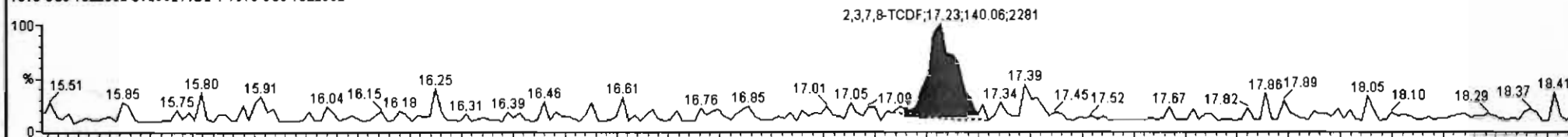
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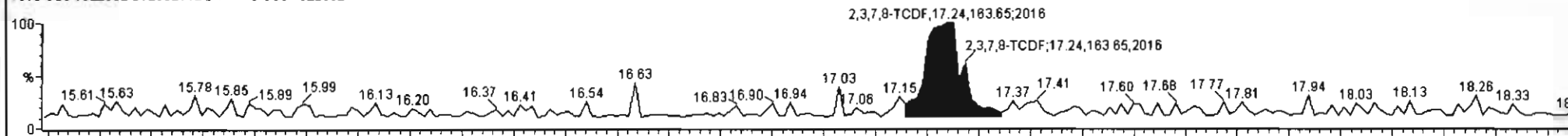
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							

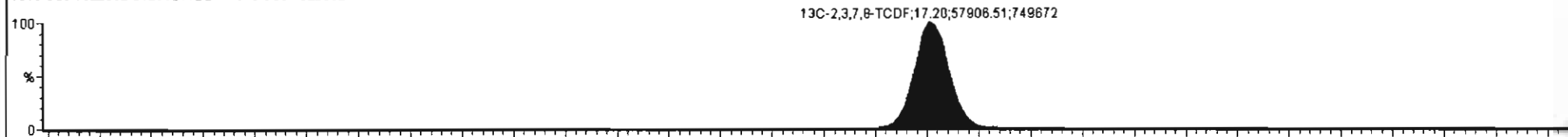
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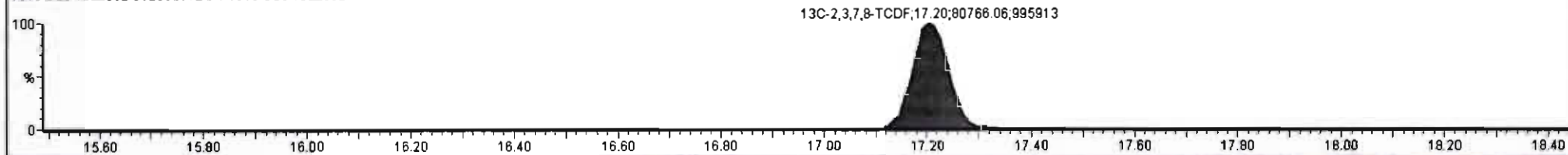
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200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



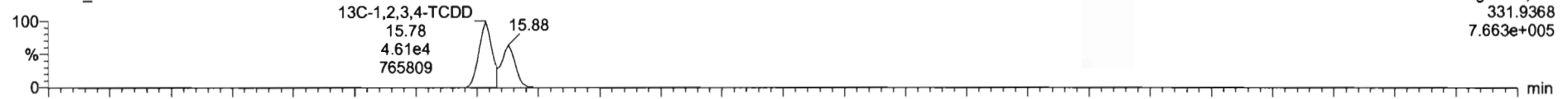
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

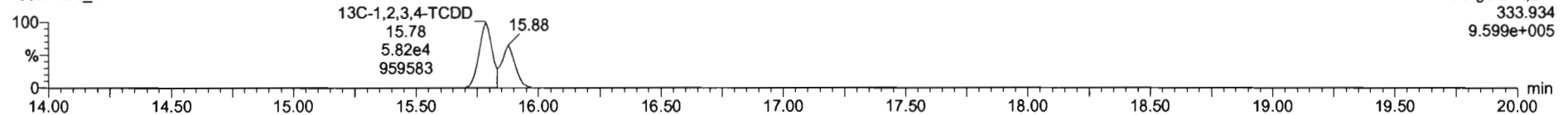
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13C-1,2,3,4-TCDD

200211D2_3

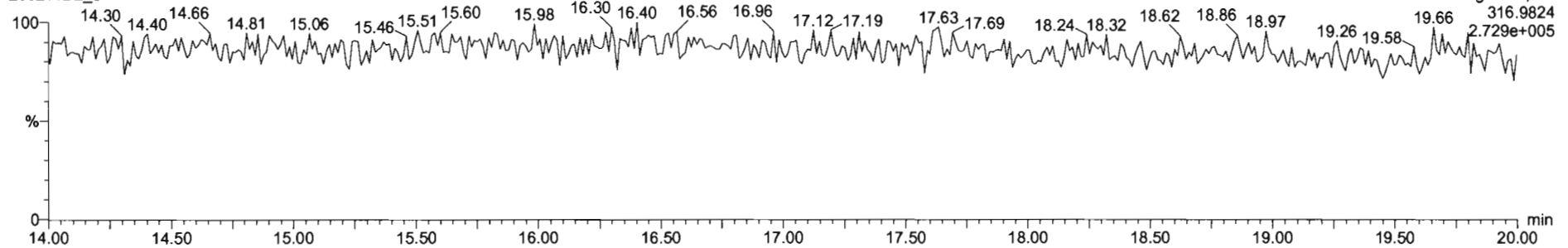


200211D2_3



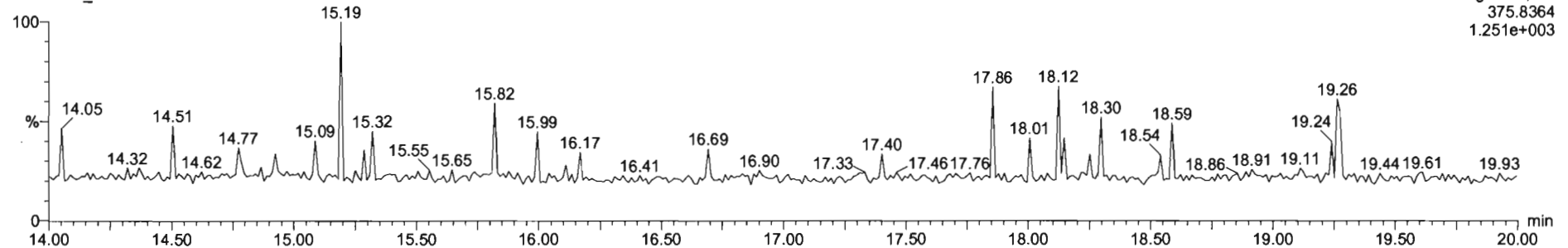
PFK1

200211D2_3



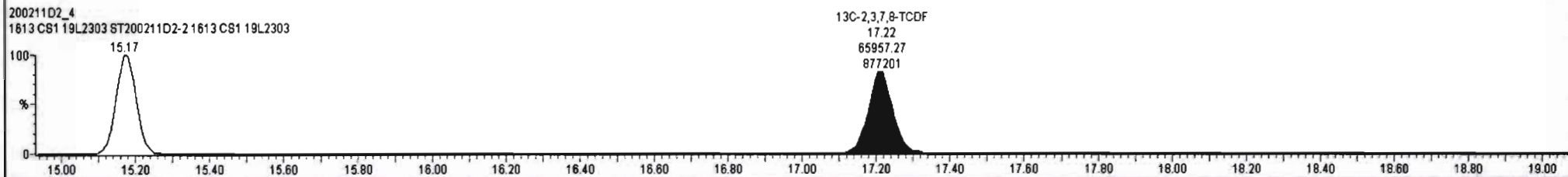
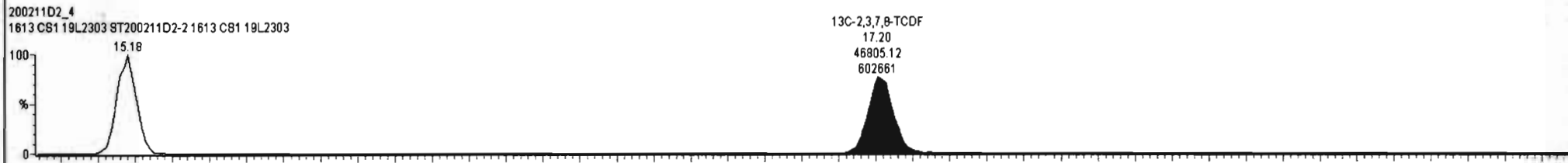
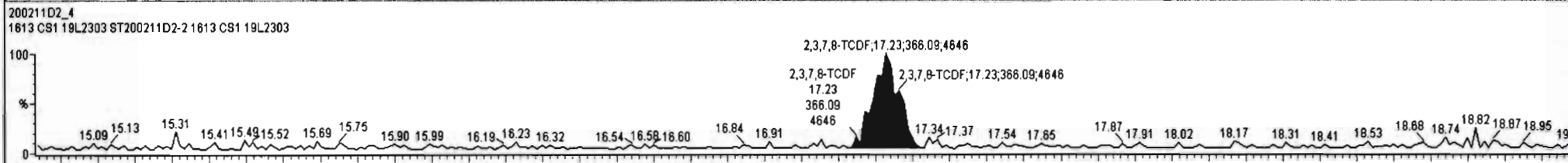
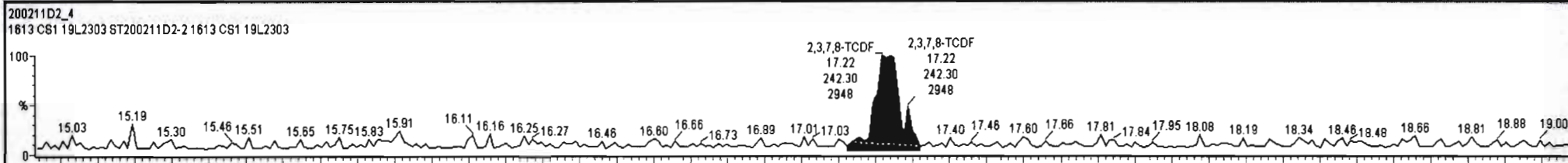
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.08e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.549
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



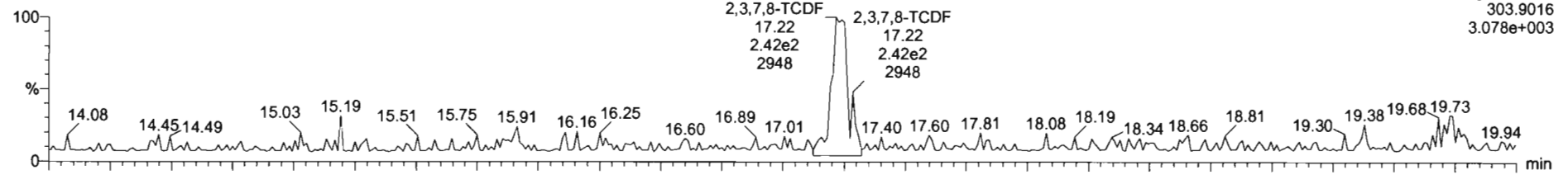
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

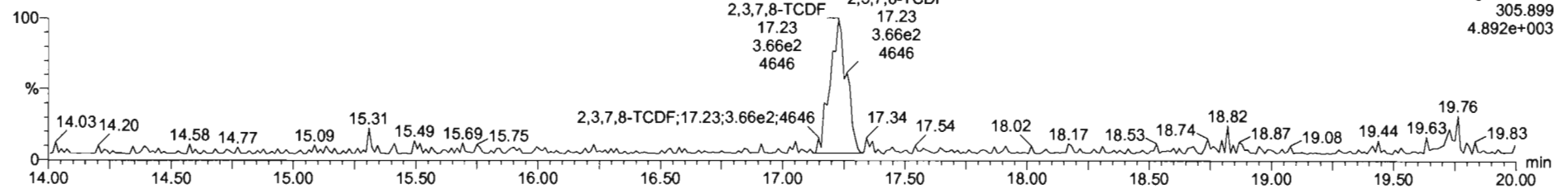
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200211D2_4

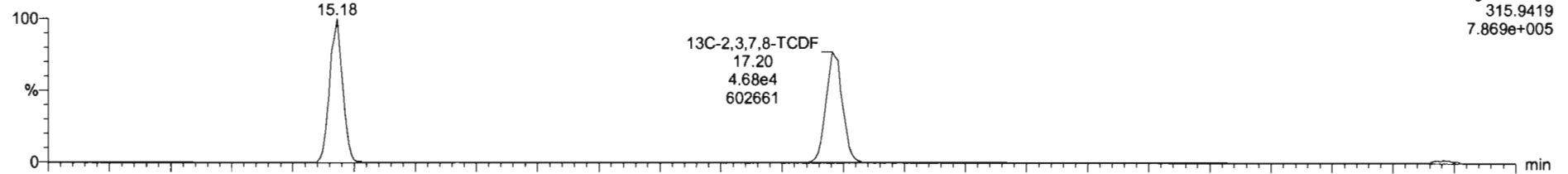


200211D2_4

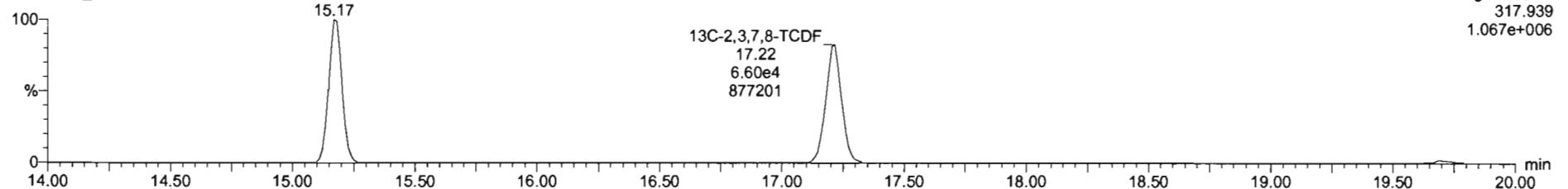


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



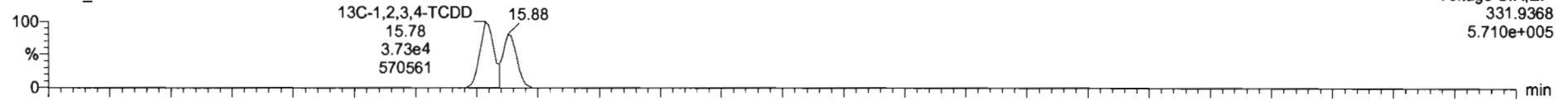
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

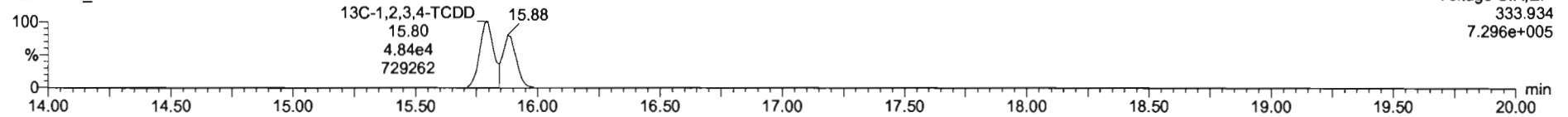
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2_4

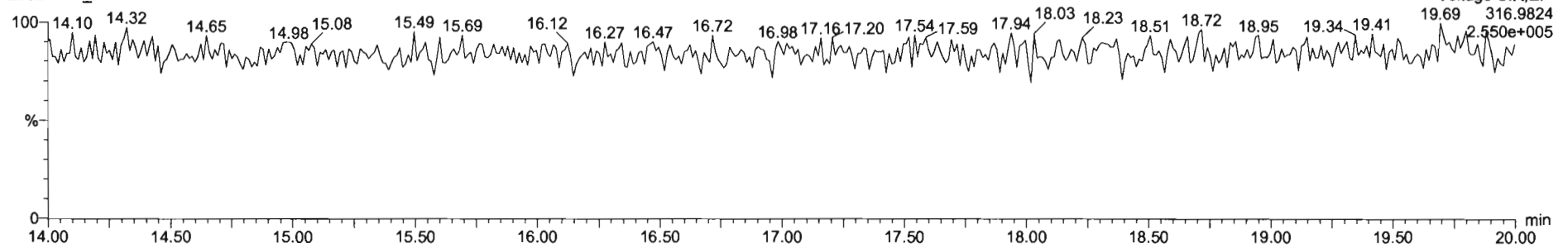


200211D2_4



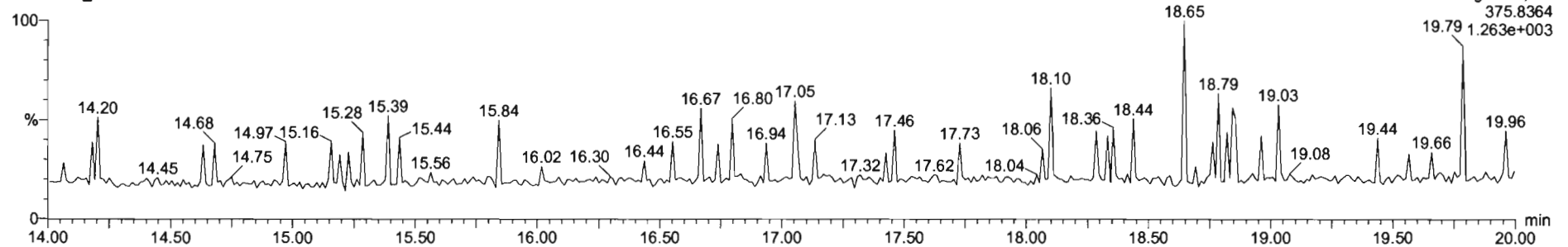
PFK1

200211D2_4



DPE1

200211D2_4



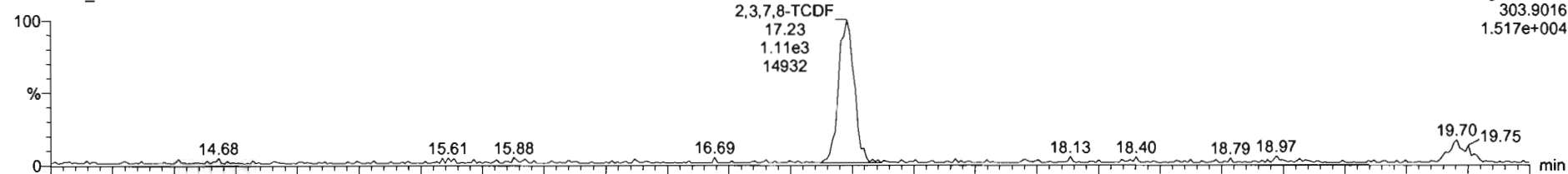
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

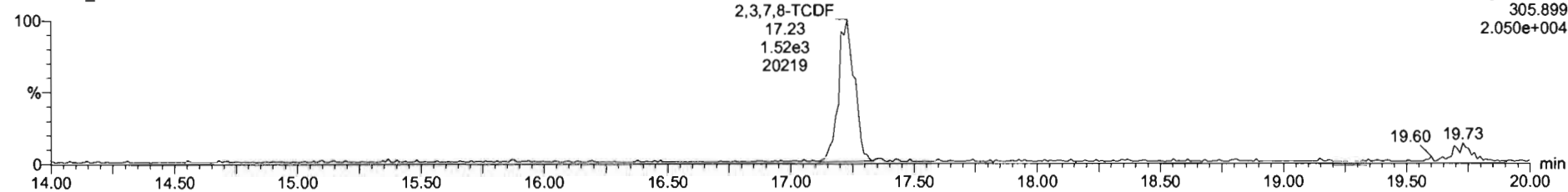
2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
303.9016
1.517e+004

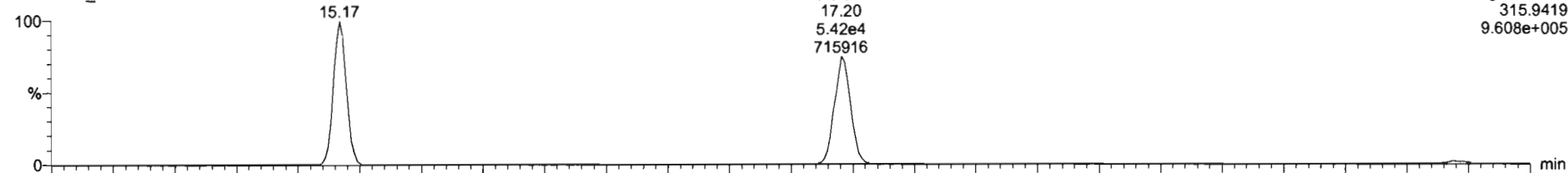
200211D2_5



Voltage SIR,EI+
305.899
2.050e+004

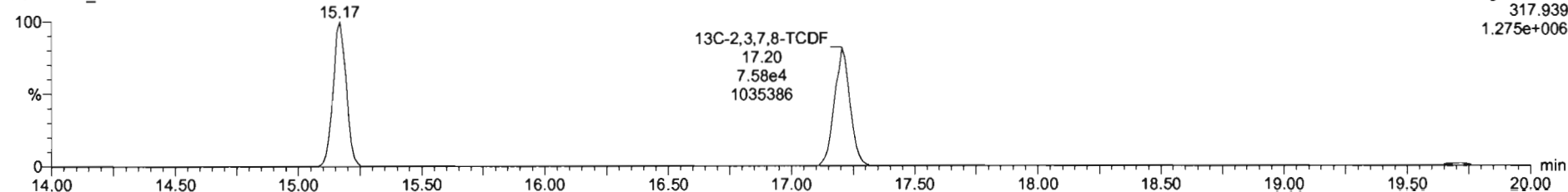
13C-2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
315.9419
9.608e+005

200211D2_5



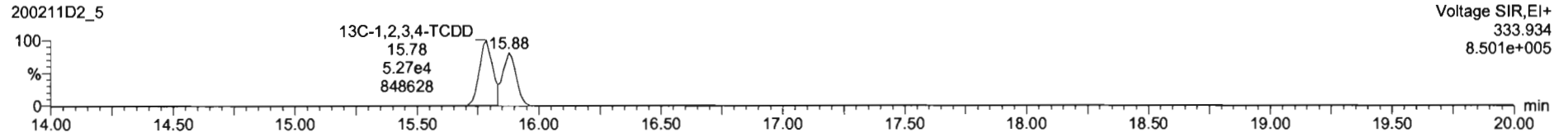
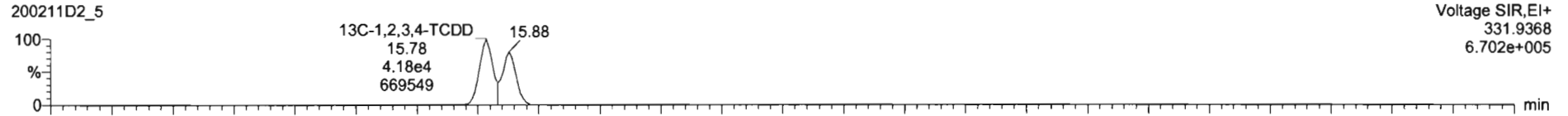
Voltage SIR,EI+
317.939
1.275e+006

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

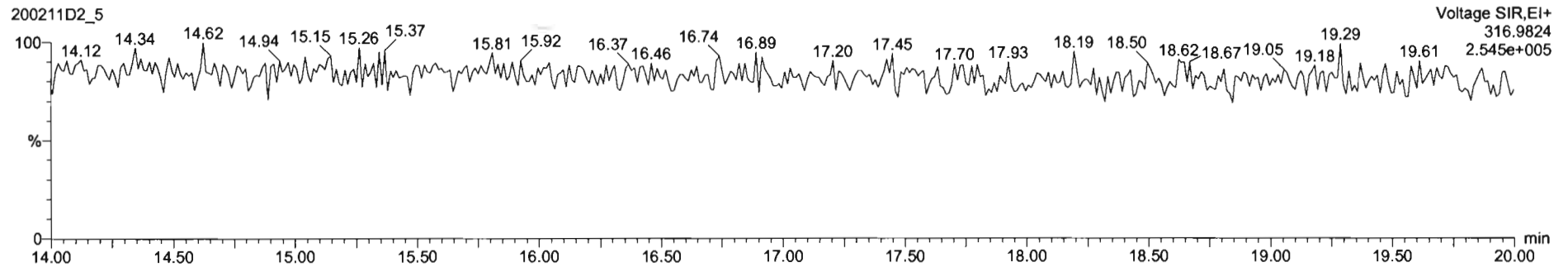
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

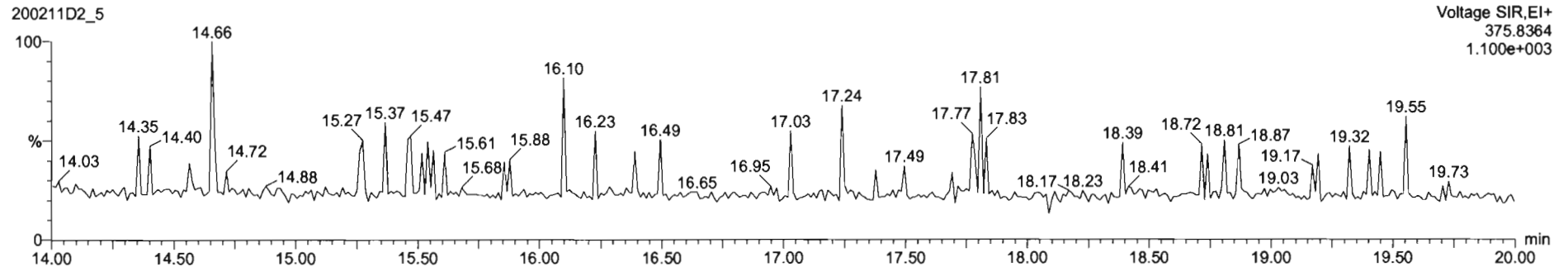
13C-1,2,3,4-TCDD



PFK1



DPE1



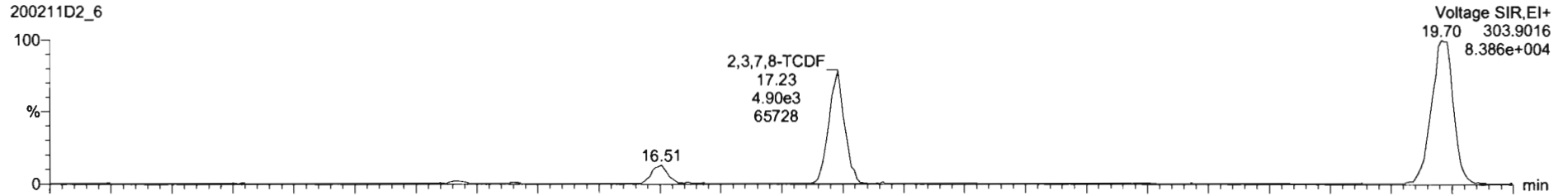
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

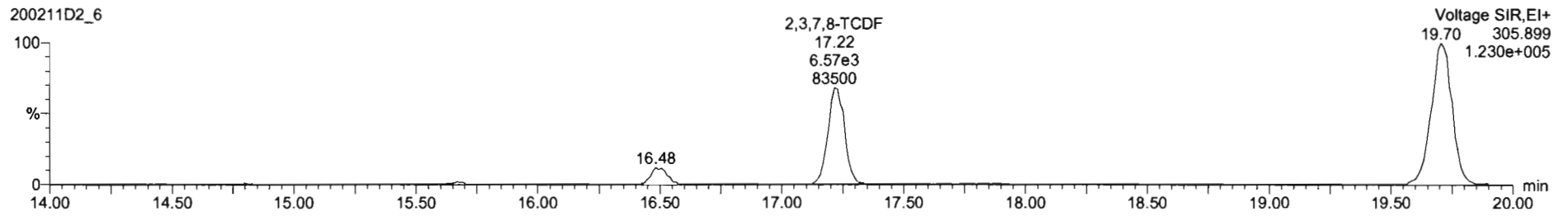
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

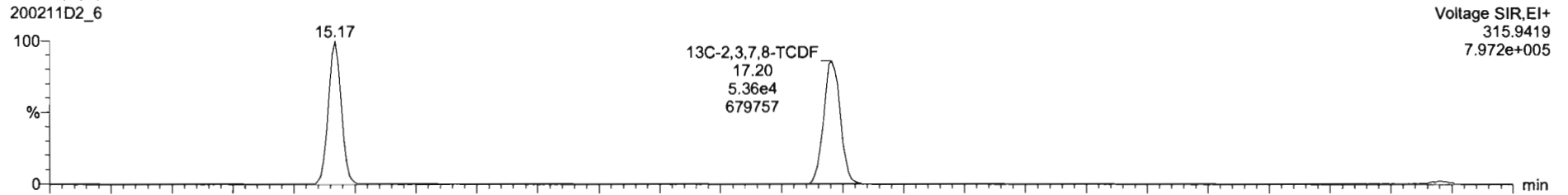


200211D2_6

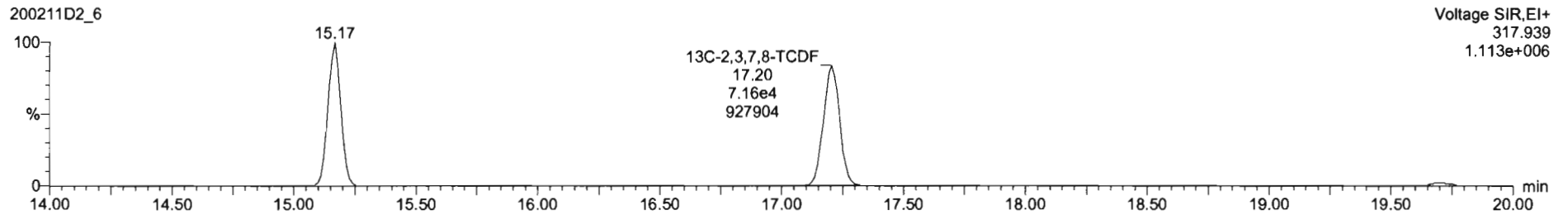


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



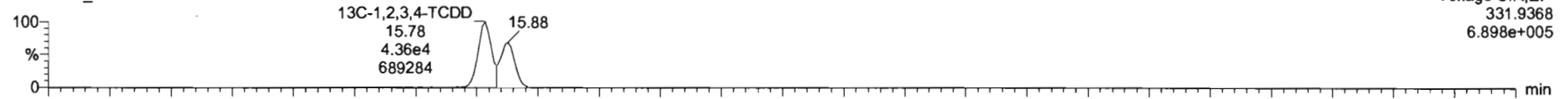
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

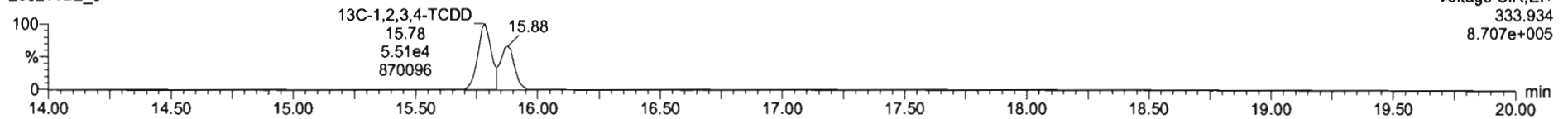
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2_6

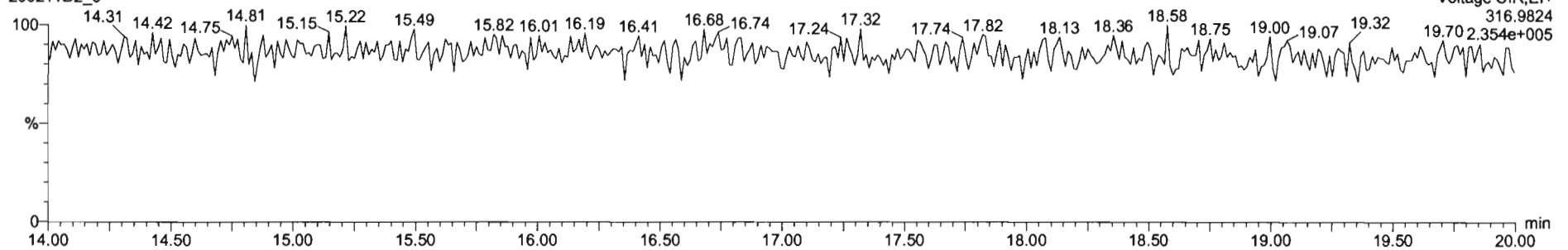


200211D2_6



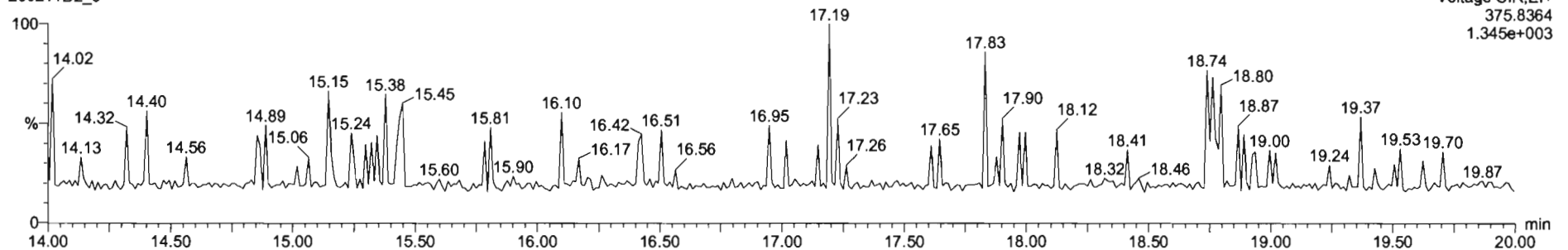
PFK1

200211D2_6



DPE1

200211D2_6



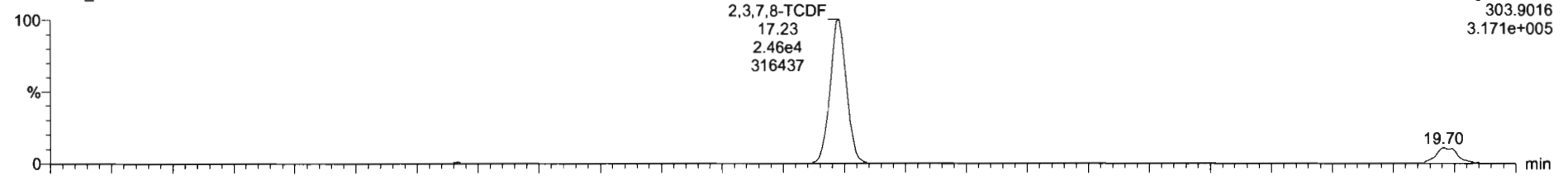
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

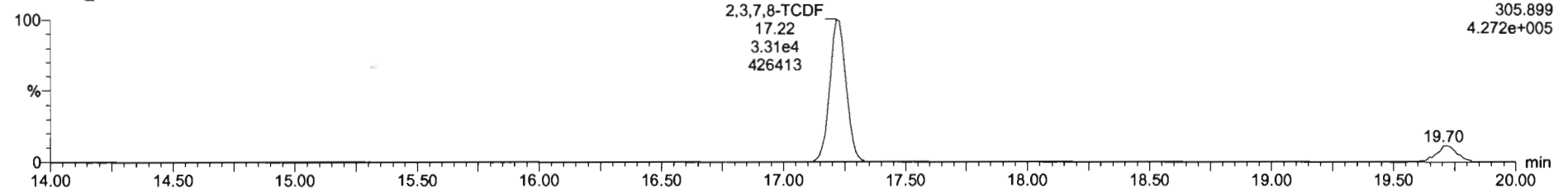
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

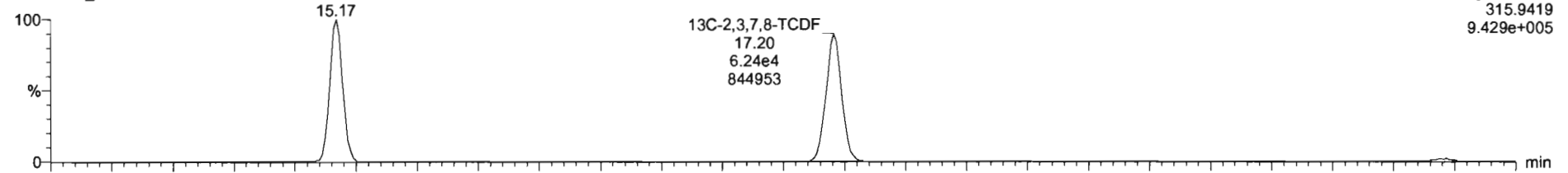


200211D2_7

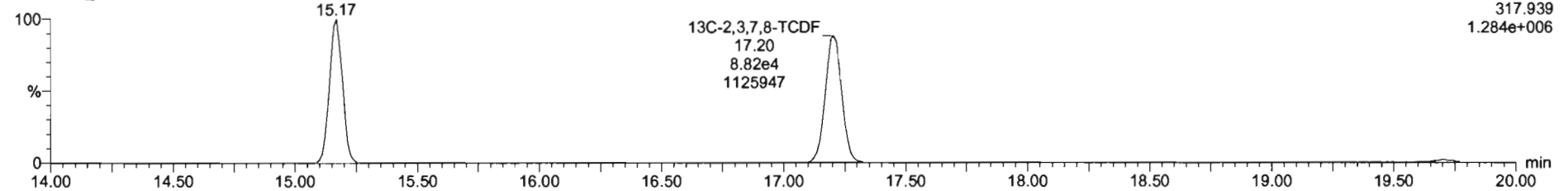


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



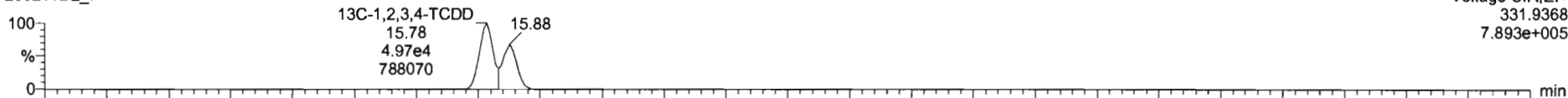
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

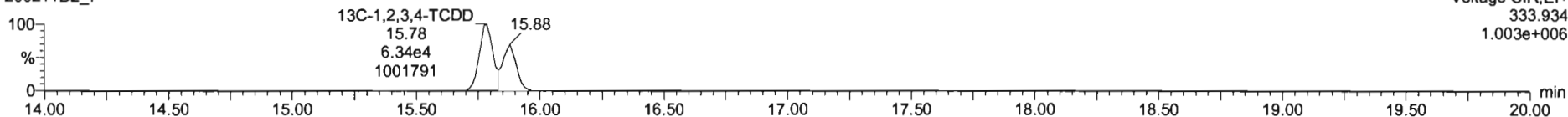
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2_7

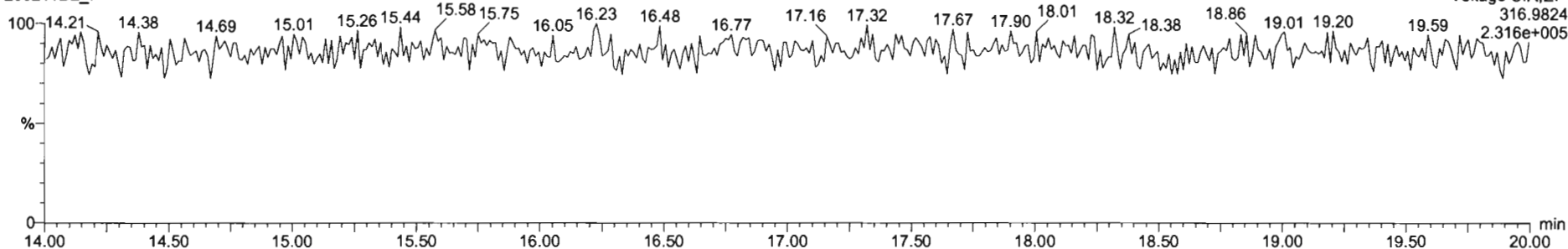


200211D2_7



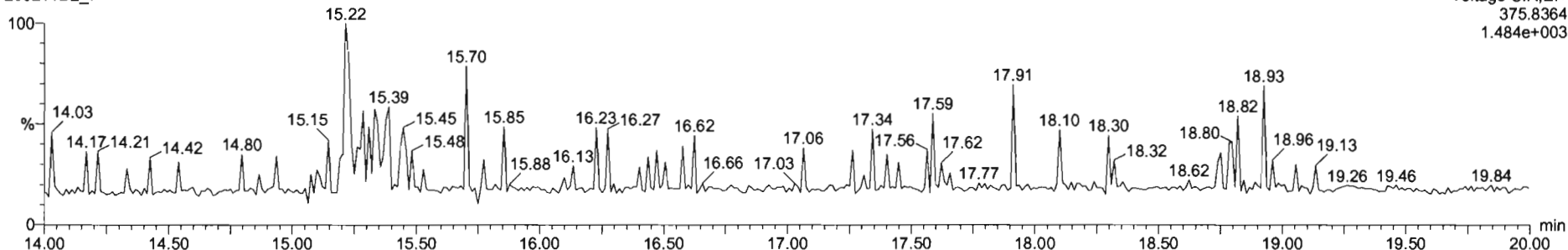
PFK1

200211D2_7



DPE1

200211D2_7



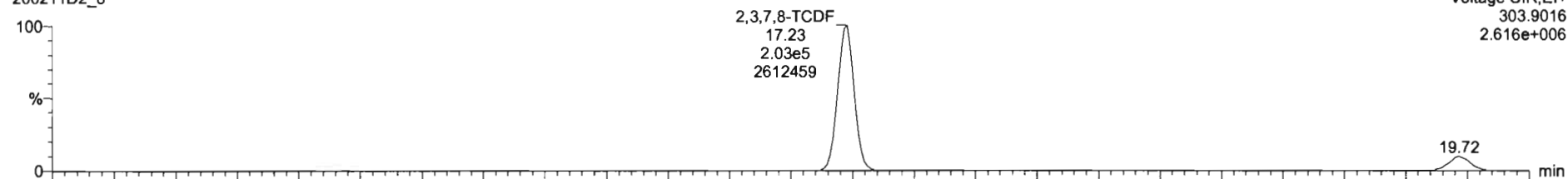
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

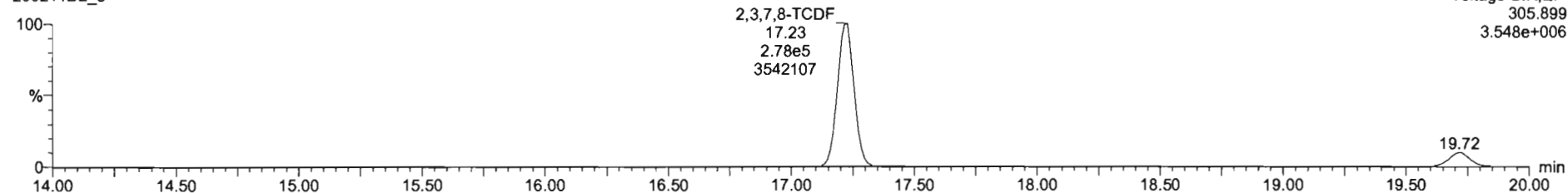
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

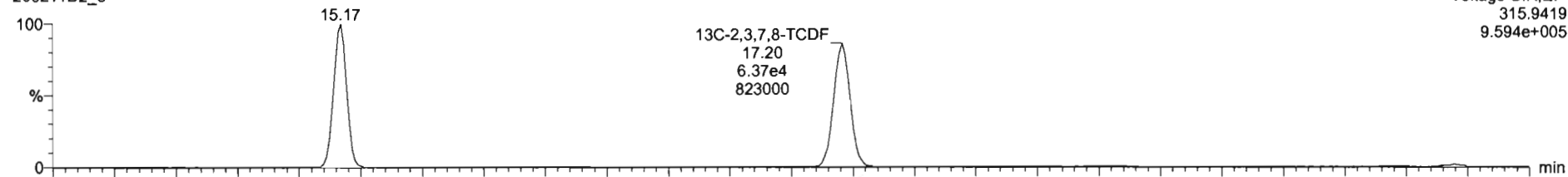
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

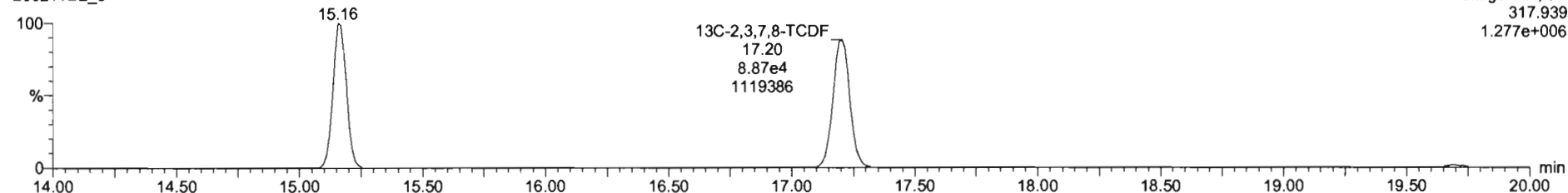
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

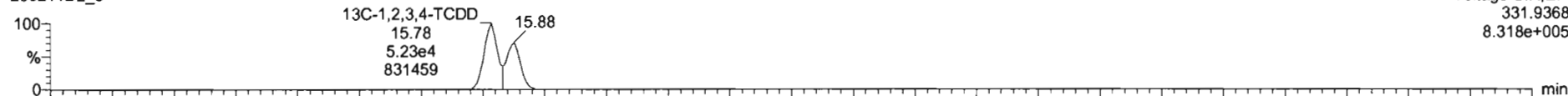
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

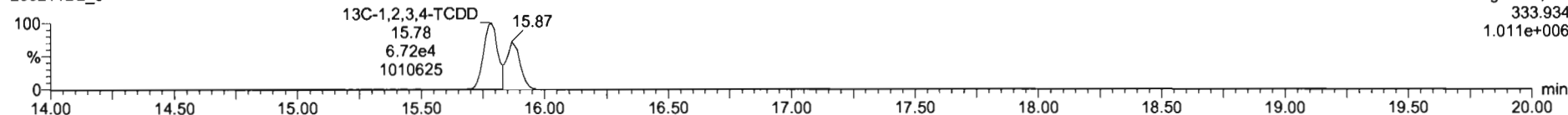
Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2_8

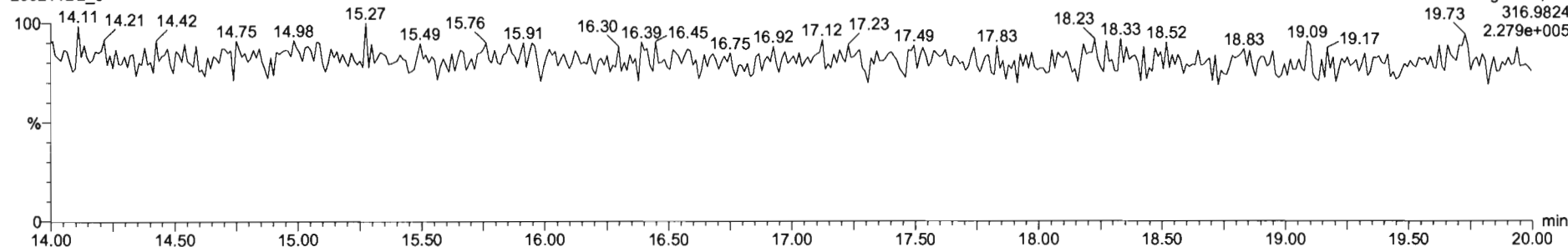


200211D2_8



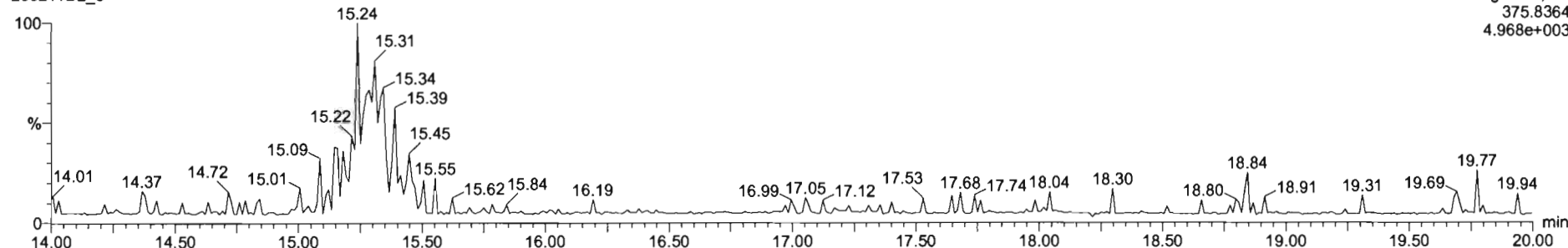
PFK1

200211D2_8

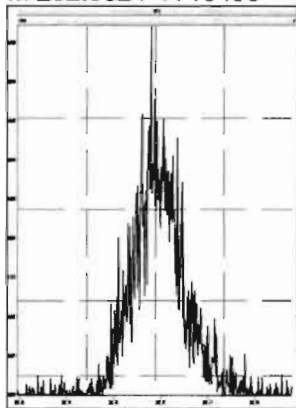


DPE1

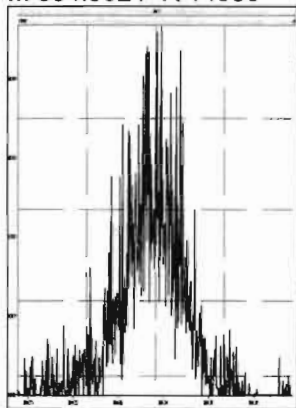
200211D2_8



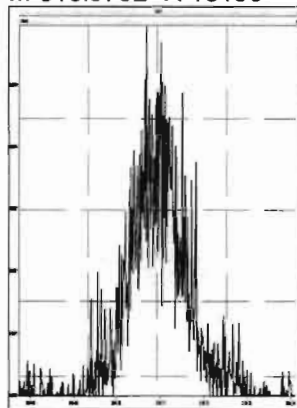
M 292.9824 R 13493



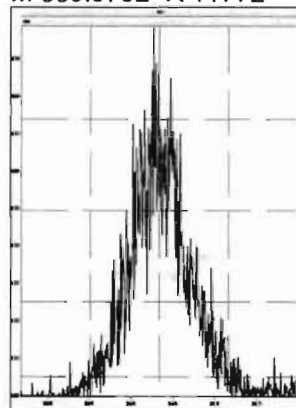
M 304.9824 R 14983



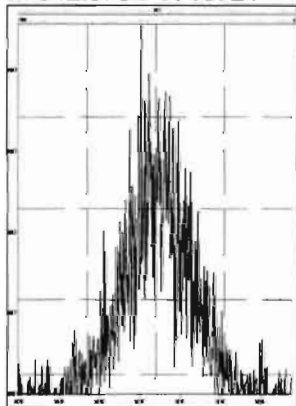
M 318.9792 R 15196



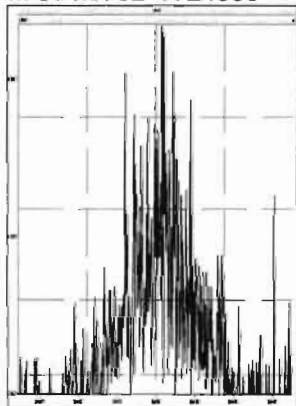
M 330.9792 R 11772



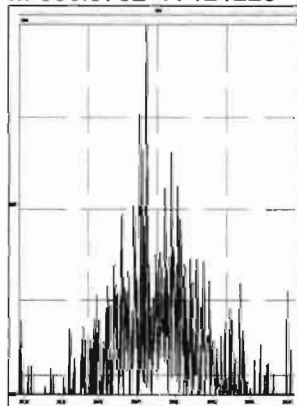
M 342.9792 R 13721



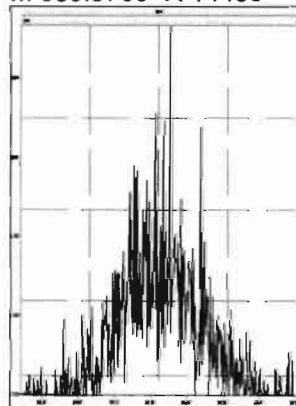
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

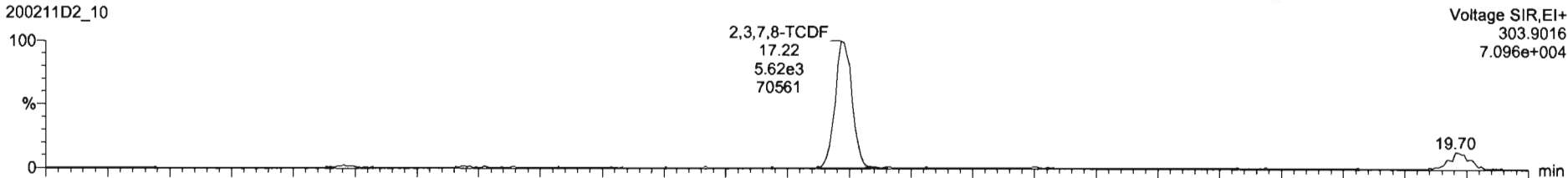
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

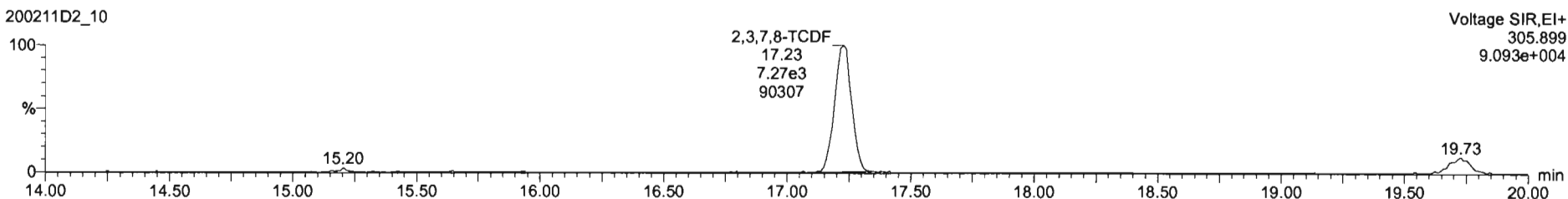
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

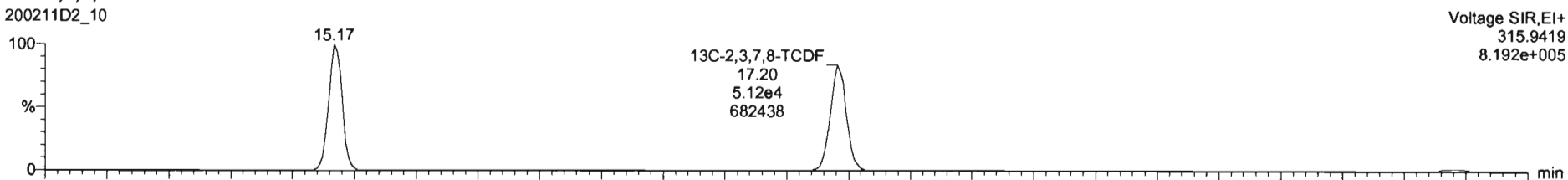


200211D2_10

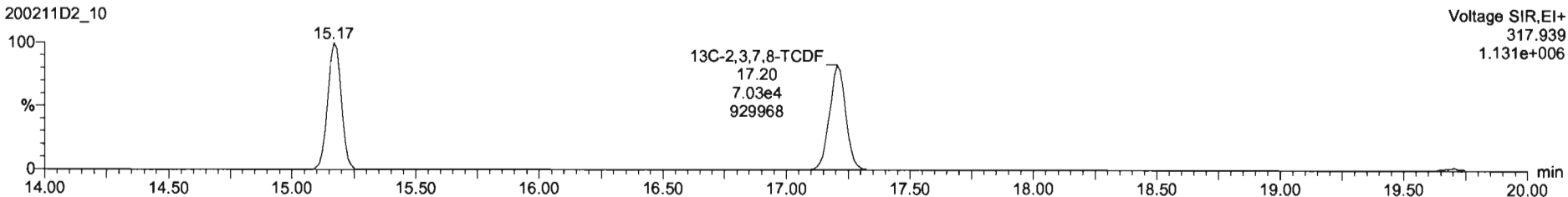


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



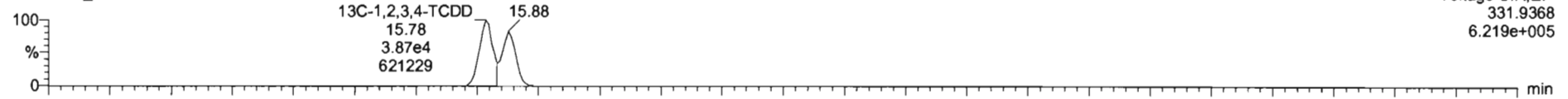
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Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

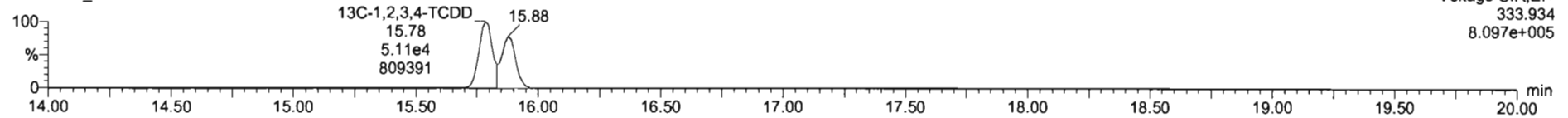
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13C-1,2,3,4-TCDD

200211D2_10

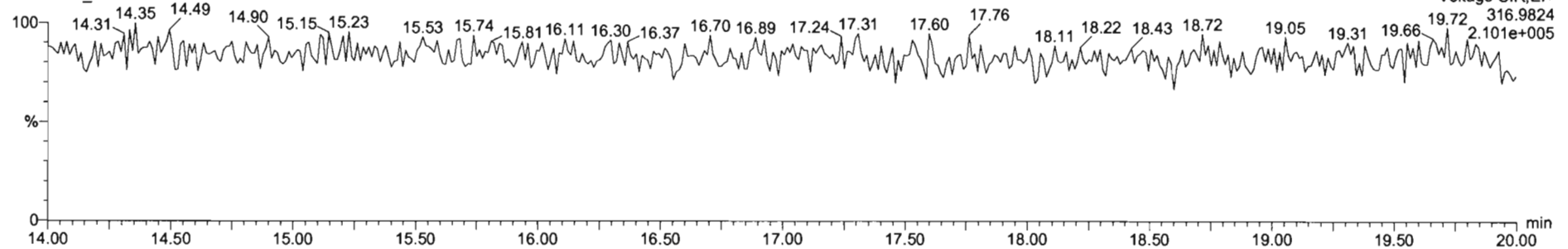


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

