

July 13, 2020

Vista Work Order No. 2000855

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

Dear Ms. Peterson,

Enclosed are the amended results for the sample set received at Vista Analytical Laboratory on April 10, 2020 under your Project Name 'Gasco PDI 000029-02.64'.

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. 2000855

Case Narrative

Sample Condition on Receipt:

Fifteen 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. The container for sample "PDI-49SC-A-11-12-191015" was received broken. The sample contents did not appear to be compromised and were transferred to a 120 mL amber jar. This report was amended to correct the date of analysis for sample "PDI-047SC-A-07-08-191001" and to add resolution checks to continuing calibration standards ST200701R2-1 and ST200705R4-1.

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. The confirmations for 2,3,7,8-TCDF were performed using a DB-225 GC column.

Holding Times

These 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 the sample quantitation limits in the Method Blanks. The OPR recoveries were within the method acceptance criteria.

As requested, a Duplicate was performed on sample "PDI-047SC-A-04-05-191001". The RPDs were greater than 25% for 1,2,3,4,6,7,8-HpCDD, OCDD and OCDF. The concentrations of these analytes were less than the quantitation limits.

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

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2000855-15	PDI-076SC-A-06-07-191013	EPA Method 1613B	13C-OCDD	H	10.5

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000855-01	PDI-047SC-A-04-05-191001	DUP01-Oct-19 10:32	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-02	PDI-047SC-A-05-06-191001	01-Oct-19 10:32	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-03	PDI-047SC-A-06-07-191001	01-Oct-19 10:32	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-04	PDI-047SC-A-07-08-191001	01-Oct-19 10:32	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-05	PDI-049SC-A-08-09-191015	15-Oct-19 13:29	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-06	PDI-049SC-A-09-10-191015	15-Oct-19 13:29	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-07	PDI-049SC-A-10-11-191015	15-Oct-19 13:29	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-08	PDI-049SC-A-11-12-191015	15-Oct-19 13:29	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-09	PDI-057SC-A-09-10-191023	23-Oct-19 13:01	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-10	PDI-057SC-A-10-11-191023	23-Oct-19 13:01	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-11	PDI-057SC-A-11-12-191023	23-Oct-19 13:01	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-12	PDI-057SC-A-12-13-191023	23-Oct-19 13:01	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-13	PDI-062SC-A-11-12-191023	23-Oct-19 09:33	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-14	PDI-062SC-A-12-13-191023	23-Oct-19 09:33	10-Apr-20 09:50	Amber Glass, 120 mL
2000855-15	PDI-076SC-A-06-07-191013	13-Oct-19 13:08	10-Apr-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: B0D0167 Date Extracted: 15-Apr-2020 14:07		Lab Sample: B0D0167-BLK1 Date Analyzed: 01-Jun-20 18:10 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0592			IS 13C-2,3,7,8-TCDD	87.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0519			13C-1,2,3,7,8-PeCDD	81.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0930			13C-1,2,3,4,7,8-HxCDD	83.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0908			13C-1,2,3,6,7,8-HxCDD	77.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.103			13C-1,2,3,7,8,9-HxCDD	81.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.156			13C-1,2,3,4,6,7,8-HpCDD	74.9	23 - 140	
OCDD	0.489			J	13C-OCDD	61.4	17 - 157	
2,3,7,8-TCDF	ND	0.0330			13C-2,3,7,8-TCDF	85.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0440			13C-1,2,3,7,8-PeCDF	85.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0408			13C-2,3,4,7,8-PeCDF	84.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0637			13C-1,2,3,4,7,8-HxCDF	83.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0590			13C-1,2,3,6,7,8-HxCDF	81.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0633			13C-2,3,4,6,7,8-HxCDF	86.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.0730			J	13C-1,2,3,7,8,9-HxCDF	84.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.101			13C-1,2,3,4,6,7,8-HpCDF	76.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.102			13C-1,2,3,4,7,8,9-HpCDF	81.1	26 - 138	
OCDF	ND	0.0848			13C-OCDF	68.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	100	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin	0.00745		
TOTALS								
Total TCDD	ND	0.0592						
Total PeCDD	ND	0.0519						
Total HxCDD	ND	0.103						
Total HpCDD	ND	0.156						
Total TCDF	ND	0.0330						
Total PeCDF	ND	0.0440						
Total HxCDF	0.0730		0.0917					
Total HpCDF	ND	0.102						

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 Sample Size: 10.0 g		QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07		Lab Sample: B0D0167-BS1 Date Analyzed: 02-Jun-20 09:19 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	18.2	20.0	91.0	67 - 158	IS 13C-2,3,7,8-TCDD	64.8	20 - 175
1,2,3,7,8-PeCDD	95.1	100	95.1	70 - 142	13C-1,2,3,7,8-PeCDD	71.3	21 - 227
1,2,3,4,7,8-HxCDD	96.8	100	96.8	70 - 164	13C-1,2,3,4,7,8-HxCDD	78.6	21 - 193
1,2,3,6,7,8-HxCDD	98.2	100	98.2	76 - 134	13C-1,2,3,6,7,8-HxCDD	74.4	25 - 163
1,2,3,7,8,9-HxCDD	98.5	100	98.5	64 - 162	13C-1,2,3,7,8,9-HxCDD	79.3	21 - 193
1,2,3,4,6,7,8-HpCDD	100	100	100	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	74.7	26 - 166
OCDD	197	200	98.7	78 - 144	13C-OCDD	62.3	13 - 199
2,3,7,8-TCDF	18.1	20.0	90.5	75 - 158	13C-2,3,7,8-TCDF	61.5	22 - 152
1,2,3,7,8-PeCDF	96.2	100	96.2	80 - 134	13C-1,2,3,7,8-PeCDF	72.0	21 - 192
2,3,4,7,8-PeCDF	96.4	100	96.4	68 - 160	13C-2,3,4,7,8-PeCDF	70.5	13 - 328
1,2,3,4,7,8-HxCDF	98.8	100	98.8	72 - 134	13C-1,2,3,4,7,8-HxCDF	73.4	19 - 202
1,2,3,6,7,8-HxCDF	96.0	100	96.0	84 - 130	13C-1,2,3,6,7,8-HxCDF	74.1	21 - 159
2,3,4,6,7,8-HxCDF	99.0	100	99.0	70 - 156	13C-2,3,4,6,7,8-HxCDF	79.4	22 - 176
1,2,3,7,8,9-HxCDF	97.3	100	97.3	78 - 130	13C-1,2,3,7,8,9-HxCDF	76.3	17 - 205
1,2,3,4,6,7,8-HpCDF	96.2	100	96.2	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	75.8	21 - 158
1,2,3,4,7,8,9-HpCDF	101	100	101	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	74.9	20 - 186
OCDF	196	200	98.2	63 - 170	13C-OCDF	68.5	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	70.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank	EPA Method 1613B
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Matrix: Solid	QC Batch: B0F0227	Lab Sample: B0F0227-BLK1
Sample Size: 10.0 g	Date Extracted: 23-Jun-2020 11:07	Date Analyzed : 01-Jul-20 19:11 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0314			IS 13C-2,3,7,8-TCDD	111	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0378			13C-1,2,3,7,8-PeCDD	113	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0527			13C-1,2,3,4,7,8-HxCDD	96.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0528			13C-1,2,3,6,7,8-HxCDD	95.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0591			13C-1,2,3,7,8,9-HxCDD	96.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0681			13C-1,2,3,4,6,7,8-HpCDD	96.9	23 - 140	
OCDD	ND	0.0895			13C-OCDD	79.0	17 - 157	
2,3,7,8-TCDF	ND	0.0199			13C-2,3,7,8-TCDF	102	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0258			13C-1,2,3,7,8-PeCDF	112	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0241			13C-2,3,4,7,8-PeCDF	109	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0316			13C-1,2,3,4,7,8-HxCDF	106	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0296			13C-1,2,3,6,7,8-HxCDF	103	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0326			13C-2,3,4,6,7,8-HxCDF	104	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.101		13C-1,2,3,7,8,9-HxCDF	104	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0573			13C-1,2,3,4,6,7,8-HpCDF	104	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0643			13C-1,2,3,4,7,8,9-HpCDF	103	26 - 138	
OCDF	ND	0.0640			13C-OCDF	79.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	115	35 - 197	

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

TEQMinWHO2005Dioxin 0.00

TOTALS								
Total TCDD	ND	0.0314						
Total PeCDD	ND	0.0378						
Total HxCDD	ND	0.0591						
Total HpCDD	ND	0.0681						
Total TCDF	ND	0.0199						
Total PeCDF	ND	0.0258						
Total HxCDF	ND		0.101					
Total HpCDF	ND	0.0643						

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: B0F0227	Lab Sample: B0F0227-BS1					
Sample Size: 10.0 g	Date Extracted: 23-Jun-2020 11:07	Date Analyzed: 01-Jul-20 17:38	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.7	20.0	104	67 - 158	IS 13C-2,3,7,8-TCDD	105	20 - 175
1,2,3,7,8-PeCDD	105	100	105	70 - 142	13C-1,2,3,7,8-PeCDD	112	21 - 227
1,2,3,4,7,8-HxCDD	105	100	105	70 - 164	13C-1,2,3,4,7,8-HxCDD	100	21 - 193
1,2,3,6,7,8-HxCDD	107	100	107	76 - 134	13C-1,2,3,6,7,8-HxCDD	96.1	25 - 163
1,2,3,7,8,9-HxCDD	107	100	107	64 - 162	13C-1,2,3,7,8,9-HxCDD	102	21 - 193
1,2,3,4,6,7,8-HpCDD	112	100	112	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	95.2	26 - 166
OCDD	221	200	110	78 - 144	13C-OCDD	82.5	13 - 199
2,3,7,8-TCDF	21.2	20.0	106	75 - 158	13C-2,3,7,8-TCDF	91.6	22 - 152
1,2,3,7,8-PeCDF	108	100	108	80 - 134	13C-1,2,3,7,8-PeCDF	109	21 - 192
2,3,4,7,8-PeCDF	106	100	106	68 - 160	13C-2,3,4,7,8-PeCDF	108	13 - 328
1,2,3,4,7,8-HxCDF	110	100	110	72 - 134	13C-1,2,3,4,7,8-HxCDF	108	19 - 202
1,2,3,6,7,8-HxCDF	107	100	107	84 - 130	13C-1,2,3,6,7,8-HxCDF	104	21 - 159
2,3,4,6,7,8-HxCDF	108	100	108	70 - 156	13C-2,3,4,6,7,8-HxCDF	105	22 - 176
1,2,3,7,8,9-HxCDF	109	100	109	78 - 130	13C-1,2,3,7,8,9-HxCDF	102	17 - 205
1,2,3,4,6,7,8-HpCDF	108	100	108	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	105	21 - 158
1,2,3,4,7,8,9-HpCDF	113	100	113	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	99.7	20 - 186
OCDF	220	200	110	63 - 170	13C-OCDF	83.1	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	107	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-047SC-A-04-05-191001 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-01 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 11.9 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 01-Oct-2019 10:32	% Solids: 85.0	Date Analyzed : 01-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	0.0526			IS 13C-2,3,7,8-TCDD	89.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.131			13C-1,2,3,7,8-PeCDD	88.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0857			13C-1,2,3,4,7,8-HxCDD	86.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0914			13C-1,2,3,6,7,8-HxCDD	78.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.102			13C-1,2,3,7,8,9-HxCDD	80.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.68			J	13C-1,2,3,4,6,7,8-HpCDD	76.1	23 - 140	
OCDD	11.3			B	13C-OCDD	63.8	17 - 157	
2,3,7,8-TCDF	ND	0.0584			13C-2,3,7,8-TCDF	85.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0549			13C-1,2,3,7,8-PeCDF	88.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0525			13C-2,3,4,7,8-PeCDF	86.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0692			13C-1,2,3,4,7,8-HxCDF	85.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0634			13C-1,2,3,6,7,8-HxCDF	81.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0674			13C-2,3,4,6,7,8-HxCDF	86.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0982			13C-1,2,3,7,8,9-HxCDF	84.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.179		13C-1,2,3,4,6,7,8-HpCDF	75.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.109			13C-1,2,3,4,7,8,9-HpCDF	79.3	26 - 138	
OCDF	0.274			J	13C-OCDF	66.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	104	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0203

TOTALS				
Total TCDD	0.212			
Total PeCDD	0.350			
Total HxCDD	2.13			
Total HpCDD	4.23			
Total TCDF	ND		0.501	
Total PeCDF	0.145			
Total HxCDF	0.0774			B
Total HpCDF	ND		0.179	

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-047SC-A-04-05-191001		QC Batch: B0D0167		Lab Sample: B0D0167-DUP1					
Source LabNumber: 2000855-01		Date Extracted: 15-Apr-2020 14:07		Date Analyzed: 01-Jun-20 18:56 Column: ZB-5MS					
Matrix: Solid									
Sample Size: 11.8 g									
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0447			IS 13C-2,3,7,8-TCDD	90.7	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0854			13C-1,2,3,7,8-PeCDD	83.9	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.109			13C-1,2,3,4,7,8-HxCDD	81.1	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.106			13C-1,2,3,6,7,8-HxCDD	76.2	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.123			13C-1,2,3,7,8,9-HxCDD	77.0	32 - 141		
1,2,3,4,6,7,8-HpCDD	0.889			J	13C-1,2,3,4,6,7,8-HpCDD	72.8	23 - 140		
OCDD	6.79			B	13C-OCDD	58.3	17 - 157		
2,3,7,8-TCDF	ND	0.0335			13C-2,3,7,8-TCDF	85.2	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0372			13C-1,2,3,7,8-PeCDF	85.4	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0365			13C-2,3,4,7,8-PeCDF	83.8	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0524			13C-1,2,3,4,7,8-HxCDF	81.3	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0535			13C-1,2,3,6,7,8-HxCDF	76.5	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0543			13C-2,3,4,6,7,8-HxCDF	83.6	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0795			13C-1,2,3,7,8,9-HxCDF	81.4	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0833			13C-1,2,3,4,6,7,8-HpCDF	72.1	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0836			13C-1,2,3,4,7,8,9-HpCDF	78.1	26 - 138		
OCDF	ND		0.101		13C-OCDF	63.8	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.0109		
TOTALS									
Total TCDD	0.145								
Total PeCDD	ND		0.112						
Total HxCDD	0.930								
Total HpCDD	2.53								
Total TCDF	ND	0.0335							
Total PeCDF	ND	0.0372							
Total HxCDF	ND	0.0795							
Total HpCDF	ND	0.0836							

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-047SC-A-04-05-191001					Duplicate Lab Sample: B0D0167-DUP1				
Source LabNumber: 2000855-01									
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	90.7	89.6	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	83.9	88.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	81.1	86.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDD	76.2	78.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDD	77.0	80.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.889	1.68	61.7	25	13C-1,2,3,4,6,7,8-HpCDD	72.8	76.1	23 - 140	
OCDD	6.79	11.3	50.1	25	13C-OCDD	58.3	63.8	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	85.2	85.6	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	25	13C-1,2,3,7,8-PeCDF	85.4	88.5	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	83.8	86.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDF	81.3	85.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDF	76.5	81.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	25	13C-2,3,4,6,7,8-HxCDF	83.6	86.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDF	81.4	84.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	ND	NA	25	13C-1,2,3,4,6,7,8-HpCDF	72.1	75.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25	13C-1,2,3,4,7,8,9-HpCDF	78.1	79.3	26 - 138	
OCDF	ND	0.274	#	25	13C-OCDF	63.8	66.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	104	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-047SC-A-05-06-191001 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-02 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 12.5 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 01-Oct-2019 10:32	% Solids: 80.7	Date Analyzed : 01-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		0.0568		IS 13C-2,3,7,8-TCDD	75.7	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0844		13C-1,2,3,7,8-PeCDD	78.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0956			13C-1,2,3,4,7,8-HxCDD	77.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0988			13C-1,2,3,6,7,8-HxCDD	72.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.106			13C-1,2,3,7,8,9-HxCDD	81.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.826		13C-1,2,3,4,6,7,8-HpCDD	74.7	23 - 140	
OCDD	5.84			B	13C-OCDD	65.0	17 - 157	
2,3,7,8-TCDF	ND	0.0414			13C-2,3,7,8-TCDF	70.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0400			13C-1,2,3,7,8-PeCDF	77.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0373			13C-2,3,4,7,8-PeCDF	76.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0493			13C-1,2,3,4,7,8-HxCDF	78.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0480			13C-1,2,3,6,7,8-HxCDF	75.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0464			13C-2,3,4,6,7,8-HxCDF	84.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0693			13C-1,2,3,7,8,9-HxCDF	82.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0756			13C-1,2,3,4,6,7,8-HpCDF	76.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0789			13C-1,2,3,4,7,8,9-HpCDF	80.1	26 - 138	
OCDF	ND	0.101			13C-OCDF	67.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	86.7	35 - 197	

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

TEQMinWHO2005Dioxin 0.00175

TOTALS			
Total TCDD	ND		0.138
Total PeCDD	0.246		0.515
Total HxCDD	1.05		
Total HpCDD	1.41		2.23
Total TCDF	ND	0.0414	
Total PeCDF	ND	0.0400	
Total HxCDF	ND	0.0693	
Total HpCDF	ND	0.0789	

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-047SC-A-06-07-191001 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-03 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 11.6 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 01-Oct-2019 10:32	% Solids: 86.6	Date Analyzed : 01-Jun-20 21:15 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0629			IS 13C-2,3,7,8-TCDD	89.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.107			13C-1,2,3,7,8-PeCDD	84.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.121			13C-1,2,3,4,7,8-HxCDD	84.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.124			13C-1,2,3,6,7,8-HxCDD	77.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.133			13C-1,2,3,7,8,9-HxCDD	81.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.675			J	13C-1,2,3,4,6,7,8-HpCDD	75.8	23 - 140	
OCDD	5.42			B	13C-OCDD	61.6	17 - 157	
2,3,7,8-TCDF	ND	0.0300			13C-2,3,7,8-TCDF	86.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0366			13C-1,2,3,7,8-PeCDF	86.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0356			13C-2,3,4,7,8-PeCDF	86.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0590			13C-1,2,3,4,7,8-HxCDF	83.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0552			13C-1,2,3,6,7,8-HxCDF	79.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0587			13C-2,3,4,6,7,8-HxCDF	86.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0445		13C-1,2,3,7,8,9-HxCDF	84.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0709			13C-1,2,3,4,6,7,8-HpCDF	76.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0670			13C-1,2,3,4,7,8,9-HpCDF	80.9	26 - 138	
OCDF	ND	0.105			13C-OCDF	66.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00838

TOTALS								
Total TCDD	0.183							
Total PeCDD	ND		0.128					
Total HxCDD	0.815							
Total HpCDD	1.80							
Total TCDF	ND	0.0300						
Total PeCDF	ND	0.0366						
Total HxCDF	ND		0.0445					
Total HpCDF	ND	0.0709						

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-047SC-A-07-08-191001 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-04 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 13.2 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 01-Oct-2019 10:32	% Solids: 76.1	Date Analyzed : 01-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	0.0715			IS 13C-2,3,7,8-TCDD	69.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0973			13C-1,2,3,7,8-PeCDD	77.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.119			13C-1,2,3,4,7,8-HxCDD	79.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.118			13C-1,2,3,6,7,8-HxCDD	74.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.125			13C-1,2,3,7,8,9-HxCDD	83.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.849			J	13C-1,2,3,4,6,7,8-HpCDD	78.9	23 - 140	
OCDD	7.37			B	13C-OCDD	68.3	17 - 157	
2,3,7,8-TCDF	ND	0.0396			13C-2,3,7,8-TCDF	65.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0544			13C-1,2,3,7,8-PeCDF	73.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0492			13C-2,3,4,7,8-PeCDF	73.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0446			13C-1,2,3,4,7,8-HxCDF	78.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0399			13C-1,2,3,6,7,8-HxCDF	76.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0386			13C-2,3,4,6,7,8-HxCDF	86.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0611			13C-1,2,3,7,8,9-HxCDF	83.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0999			13C-1,2,3,4,6,7,8-HpCDF	81.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.112			13C-1,2,3,4,7,8,9-HpCDF	81.4	26 - 138	
OCDF	ND	0.0968			13C-OCDF	75.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	78.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0107

TOTALS				
Total TCDD	0.0938			
Total PeCDD	ND	0.0973		
Total HxCDD	0.721			
Total HpCDD	0.849		2.18	
Total TCDF	ND	0.0396		
Total PeCDF	ND	0.0544		
Total HxCDF	ND	0.0611		
Total HpCDF	ND	0.112		

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-049SC-A-08-09-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-05 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 14.3 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 15-Oct-2019 13:29	% Solids: 69.8	Date Analyzed : 01-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	0.0625			IS 13C-2,3,7,8-TCDD	88.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0952			13C-1,2,3,7,8-PeCDD	82.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.107			13C-1,2,3,4,7,8-HxCDD	82.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.107			13C-1,2,3,6,7,8-HxCDD	76.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.125			13C-1,2,3,7,8,9-HxCDD	80.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.569			J	13C-1,2,3,4,6,7,8-HpCDD	76.3	23 - 140	
OCDD	4.46			J, B	13C-OCDD	61.9	17 - 157	
2,3,7,8-TCDF	ND	0.0395			13C-2,3,7,8-TCDF	85.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0446			13C-1,2,3,7,8-PeCDF	85.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0416			13C-2,3,4,7,8-PeCDF	86.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0446			13C-1,2,3,4,7,8-HxCDF	83.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0407			13C-1,2,3,6,7,8-HxCDF	79.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0444			13C-2,3,4,6,7,8-HxCDF	85.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0618			13C-1,2,3,7,8,9-HxCDF	84.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0778			13C-1,2,3,4,6,7,8-HpCDF	75.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0765			13C-1,2,3,4,7,8,9-HpCDF	79.4	26 - 138	
OCDF	ND	0.106			13C-OCDF	66.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

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

TEQMinWHO2005Dioxin 0.00703

TOTALS		
Total TCDD	0.589	
Total PeCDD	0.272	
Total HxCDD	0.830	
Total HpCDD	1.58	
Total TCDF	0.155	
Total PeCDF	ND	0.0446
Total HxCDF	ND	0.0618
Total HpCDF	ND	0.0778

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-049SC-A-09-10-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-06 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 12.7 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 15-Oct-2019 13:29	% Solids: 78.7	Date Analyzed : 01-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	0.0973			IS 13C-2,3,7,8-TCDD	53.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.115			13C-1,2,3,7,8-PeCDD	60.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.173			13C-1,2,3,4,7,8-HxCDD	63.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.167			13C-1,2,3,6,7,8-HxCDD	60.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.168			13C-1,2,3,7,8,9-HxCDD	73.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.32			J	13C-1,2,3,4,6,7,8-HpCDD	68.9	23 - 140	
OCDD	61.8			B	13C-OCDD	63.0	17 - 157	
2,3,7,8-TCDF	ND	0.0645			13C-2,3,7,8-TCDF	49.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0650			13C-1,2,3,7,8-PeCDF	58.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0670			13C-2,3,4,7,8-PeCDF	57.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0713			13C-1,2,3,4,7,8-HxCDF	63.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0694			13C-1,2,3,6,7,8-HxCDF	61.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0645			13C-2,3,4,6,7,8-HxCDF	70.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0999			13C-1,2,3,7,8,9-HxCDF	68.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0730			13C-1,2,3,4,6,7,8-HpCDF	69.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0792			13C-1,2,3,4,7,8,9-HpCDF	71.3	26 - 138	
OCDF	ND	0.102			13C-OCDF	67.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	60.6	35 - 197	

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

TEQMinWHO2005Dioxin 0.0417

TOTALS			
Total TCDD	0.510		0.645
Total PeCDD	0.414		0.613
Total HxCDD	2.05		2.96
Total HpCDD	6.77		
Total TCDF	ND	0.0645	
Total PeCDF	ND	0.0670	
Total HxCDF	ND	0.0999	
Total HpCDF	ND	0.0792	

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-049SC-A-10-11-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-07 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 15.0 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 15-Oct-2019 13:29	% Solids: 66.7	Date Analyzed : 02-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		0.328		IS 13C-2,3,7,8-TCDD	92.9	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0850		13C-1,2,3,7,8-PeCDD	90.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.181			13C-1,2,3,4,7,8-HxCDD	87.6	32 - 141	
1,2,3,6,7,8-HxCDD	0.228			J	13C-1,2,3,6,7,8-HxCDD	80.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.451			J	13C-1,2,3,7,8,9-HxCDD	86.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	5.13				13C-1,2,3,4,6,7,8-HpCDD	79.2	23 - 140	
OCDD	65.9			B	13C-OCDD	67.1	17 - 157	
2,3,7,8-TCDF	ND	0.0454			13C-2,3,7,8-TCDF	93.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0535			13C-1,2,3,7,8-PeCDF	93.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0486			13C-2,3,4,7,8-PeCDF	95.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0436			13C-1,2,3,4,7,8-HxCDF	87.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0411			13C-1,2,3,6,7,8-HxCDF	82.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0428			13C-2,3,4,6,7,8-HxCDF	89.4	28 - 136	
1,2,3,7,8,9-HxCDF	0.0651			J, B	13C-1,2,3,7,8,9-HxCDF	90.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0743			13C-1,2,3,4,6,7,8-HpCDF	80.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0783			13C-1,2,3,4,7,8,9-HpCDF	85.8	26 - 138	
OCDF	0.124			J	13C-OCDF	70.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	106	35 - 197	

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

TEQMinWHO2005Dioxin 0.146

TOTALS								
Total TCDD	3.86		4.31					
Total PeCDD	2.32		2.48					
Total HxCDD	7.17							
Total HpCDD	14.7							
Total TCDF	ND		0.0776					
Total PeCDF	ND	0.0535						
Total HxCDF	0.0651			B				
Total HpCDF	ND	0.0783						

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-049SC-A-11-12-191015 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-08 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 14.0 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 15-Oct-2019 13:29	% Solids: 72.2	Date Analyzed : 02-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	0.0716			IS 13C-2,3,7,8-TCDD	77.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.113			13C-1,2,3,7,8-PeCDD	78.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.102			13C-1,2,3,4,7,8-HxCDD	78.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.100			13C-1,2,3,6,7,8-HxCDD	73.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.105			13C-1,2,3,7,8,9-HxCDD	84.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.709			J	13C-1,2,3,4,6,7,8-HpCDD	77.9	23 - 140	
OCDD	7.25			B	13C-OCDD	64.4	17 - 157	
2,3,7,8-TCDF	ND	0.0514			13C-2,3,7,8-TCDF	72.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0479			13C-1,2,3,7,8-PeCDF	76.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0442			13C-2,3,4,7,8-PeCDF	77.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0453			13C-1,2,3,4,7,8-HxCDF	80.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0422			13C-1,2,3,6,7,8-HxCDF	76.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0416			13C-2,3,4,6,7,8-HxCDF	84.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0204		13C-1,2,3,7,8,9-HxCDF	84.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0676			13C-1,2,3,4,6,7,8-HpCDF	78.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0678			13C-1,2,3,4,7,8,9-HpCDF	81.8	26 - 138	
OCDF	ND	0.0884			13C-OCDF	69.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00927

TOTALS				
Total TCDD	0.496			
Total PeCDD	ND		0.267	
Total HxCDD	1.17			
Total HpCDD	2.43			
Total TCDF	0.131			
Total PeCDF	ND	0.0479		
Total HxCDF	ND		0.0547	
Total HpCDF	ND	0.0678		

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-057SC-A-09-10-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-09 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 13.8 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 23-Oct-2019 13:01	% Solids: 72.7	Date Analyzed : 02-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	0.0724			IS 13C-2,3,7,8-TCDD	91.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0779			13C-1,2,3,7,8-PeCDD	86.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.113			13C-1,2,3,4,7,8-HxCDD	83.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.120			13C-1,2,3,6,7,8-HxCDD	79.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.132			13C-1,2,3,7,8,9-HxCDD	83.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.905			J	13C-1,2,3,4,6,7,8-HpCDD	77.5	23 - 140	
OCDD	8.84			B	13C-OCDD	67.6	17 - 157	
2,3,7,8-TCDF	0.0675			J	13C-2,3,7,8-TCDF	89.2	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0534			13C-1,2,3,7,8-PeCDF	89.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0508			13C-2,3,4,7,8-PeCDF	91.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0443			13C-1,2,3,4,7,8-HxCDF	87.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0439			13C-1,2,3,6,7,8-HxCDF	80.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0441			13C-2,3,4,6,7,8-HxCDF	87.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0631			13C-1,2,3,7,8,9-HxCDF	88.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0818			13C-1,2,3,4,6,7,8-HpCDF	81.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0840			13C-1,2,3,4,7,8,9-HpCDF	82.8	26 - 138	
OCDF	0.228			J	13C-OCDF	71.3	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	0.140		
Total PeCDD	ND		0.0604
Total HxCDD	0.567		
Total HpCDD	2.48		
Total TCDF	0.0675		0.227
Total PeCDF	ND	0.0534	
Total HxCDF	ND	0.0631	
Total HpCDF	ND	0.0840	

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-057SC-A-10-11-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-10 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 14.5 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 23-Oct-2019 13:01	% Solids: 69.4	Date Analyzed : 02-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	ND	0.0461			IS 13C-2,3,7,8-TCDD	94.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.109			13C-1,2,3,7,8-PeCDD	95.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0853			13C-1,2,3,4,7,8-HxCDD	88.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0866			13C-1,2,3,6,7,8-HxCDD	80.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0958			13C-1,2,3,7,8,9-HxCDD	83.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.452			J	13C-1,2,3,4,6,7,8-HpCDD	77.4	23 - 140	
OCDD	3.32			J, B	13C-OCDD	64.5	17 - 157	
2,3,7,8-TCDF	ND	0.0566			13C-2,3,7,8-TCDF	92.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0472			13C-1,2,3,7,8-PeCDF	94.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0426			13C-2,3,4,7,8-PeCDF	96.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0450			13C-1,2,3,4,7,8-HxCDF	88.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0428			13C-1,2,3,6,7,8-HxCDF	83.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0448			13C-2,3,4,6,7,8-HxCDF	90.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0657			13C-1,2,3,7,8,9-HxCDF	88.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0612			13C-1,2,3,4,6,7,8-HpCDF	82.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0650			13C-1,2,3,4,7,8,9-HpCDF	85.4	26 - 138	
OCDF	ND	0.0913			13C-OCDF	70.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	108	35 - 197	

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

TEQMinWHO2005Dioxin 0.00552

TOTALS			
Total TCDD	ND		0.177
Total PeCDD	ND	0.109	
Total HxCDD	0.276		
Total HpCDD	1.13		
Total TCDF	0.174		
Total PeCDF	ND	0.0472	
Total HxCDF	ND	0.0657	
Total HpCDF	ND	0.0650	

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-057SC-A-11-12-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-11 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 13.6 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 23-Oct-2019 13:01	% Solids: 73.7	Date Analyzed : 02-Jun-20 03:24 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0631			IS 13C-2,3,7,8-TCDD	83.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0703			13C-1,2,3,7,8-PeCDD	86.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0832			13C-1,2,3,4,7,8-HxCDD	87.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0825			13C-1,2,3,6,7,8-HxCDD	81.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0922			13C-1,2,3,7,8,9-HxCDD	87.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.792			J	13C-1,2,3,4,6,7,8-HpCDD	82.5	23 - 140	
OCDD	6.01			B	13C-OCDD	71.2	17 - 157	
2,3,7,8-TCDF	ND	0.0426			13C-2,3,7,8-TCDF	78.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0358			13C-1,2,3,7,8-PeCDF	85.6	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0320			13C-2,3,4,7,8-PeCDF	88.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0463			13C-1,2,3,4,7,8-HxCDF	86.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0432			13C-1,2,3,6,7,8-HxCDF	81.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0423			13C-2,3,4,6,7,8-HxCDF	90.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0588			13C-1,2,3,7,8,9-HxCDF	90.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0659			13C-1,2,3,4,6,7,8-HpCDF	83.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0652			13C-1,2,3,4,7,8,9-HpCDF	90.5	26 - 138	
OCDF	ND	0.0769			13C-OCDF	75.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00972

TOTALS			
Total TCDD	ND		0.0646
Total PeCDD	ND	0.0703	
Total HxCDD	0.490		
Total HpCDD	2.10		
Total TCDF	ND	0.0426	
Total PeCDF	ND	0.0358	
Total HxCDF	ND	0.0588	
Total HpCDF	ND	0.0659	

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-057SC-A-12-13-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-12 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 15.2 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 23-Oct-2019 13:01	% Solids: 66.2	Date Analyzed : 02-Jun-20 10:52 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.114			IS 13C-2,3,7,8-TCDD	88.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.227			13C-1,2,3,7,8-PeCDD	89.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.163			13C-1,2,3,4,7,8-HxCDD	90.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.169			13C-1,2,3,6,7,8-HxCDD	89.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.185			13C-1,2,3,7,8,9-HxCDD	92.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.650			J	13C-1,2,3,4,6,7,8-HpCDD	87.3	23 - 140	
OCDD	4.45			J, B	13C-OCDD	72.7	17 - 157	
2,3,7,8-TCDF	ND	0.141			13C-2,3,7,8-TCDF	89.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.109			13C-1,2,3,7,8-PeCDF	94.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0998			13C-2,3,4,7,8-PeCDF	93.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.207			13C-1,2,3,4,7,8-HxCDF	89.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.190			13C-1,2,3,6,7,8-HxCDF	86.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.202			13C-2,3,4,6,7,8-HxCDF	92.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.291			13C-1,2,3,7,8,9-HxCDF	92.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.194			13C-1,2,3,4,6,7,8-HpCDF	82.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.195			13C-1,2,3,4,7,8,9-HpCDF	85.7	26 - 138	
OCDF	0.213			J	13C-OCDF	71.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00790

TOTALS				
Total TCDD	0.511			
Total PeCDD	ND	0.227		
Total HxCDD	0.525			
Total HpCDD	0.650		1.61	
Total TCDF	0.436			
Total PeCDF	ND	0.109		
Total HxCDF	ND	0.291		
Total HpCDF	ND	0.195		

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-062SC-A-11-12-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-13 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 12.9 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 23-Oct-2019 9:33	% Solids: 77.9	Date Analyzed : 02-Jun-20 11:40 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.114			IS 13C-2,3,7,8-TCDD	86.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.109			13C-1,2,3,7,8-PeCDD	87.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.135			13C-1,2,3,4,7,8-HxCDD	86.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.134			13C-1,2,3,6,7,8-HxCDD	83.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.154			13C-1,2,3,7,8,9-HxCDD	87.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.452			J	13C-1,2,3,4,6,7,8-HpCDD	82.8	23 - 140	
OCDD	3.77			J, B	13C-OCDD	73.5	17 - 157	
2,3,7,8-TCDF	ND	0.0976			13C-2,3,7,8-TCDF	82.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0660			13C-1,2,3,7,8-PeCDF	92.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0627			13C-2,3,4,7,8-PeCDF	90.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0885			13C-1,2,3,4,7,8-HxCDF	84.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0857			13C-1,2,3,6,7,8-HxCDF	80.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0897			13C-2,3,4,6,7,8-HxCDF	86.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.131			13C-1,2,3,7,8,9-HxCDF	83.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.125			13C-1,2,3,4,6,7,8-HpCDF	78.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.123			13C-1,2,3,4,7,8,9-HpCDF	83.6	26 - 138	
OCDF	ND	0.131			13C-OCDF	72.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	86.7	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00565

TOTALS			
Total TCDD	ND	0.114	
Total PeCDD	ND	0.109	
Total HxCDD	0.291		
Total HpCDD	1.17		
Total TCDF	ND	0.0976	
Total PeCDF	ND	0.0660	
Total HxCDF	ND	0.131	
Total HpCDF	ND	0.125	

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-062SC-A-12-13-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-14 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 13.3 g	QC Batch: B0D0167 Date Extracted: 15-Apr-2020 14:07
Date Collected: 23-Oct-2019 9:33	% Solids: 75.6	Date Analyzed : 02-Jun-20 12:27 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.104			IS 13C-2,3,7,8-TCDD	92.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0900			13C-1,2,3,7,8-PeCDD	93.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.110			13C-1,2,3,4,7,8-HxCDD	91.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.113			13C-1,2,3,6,7,8-HxCDD	86.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.127			13C-1,2,3,7,8,9-HxCDD	87.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.766			J	13C-1,2,3,4,6,7,8-HpCDD	82.8	23 - 140	
OCDD	3.94			J, B	13C-OCDD	69.8	17 - 157	
2,3,7,8-TCDF	ND	0.109			13C-2,3,7,8-TCDF	87.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0534			13C-1,2,3,7,8-PeCDF	99.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0511			13C-2,3,4,7,8-PeCDF	98.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0420			13C-1,2,3,4,7,8-HxCDF	87.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0414			13C-1,2,3,6,7,8-HxCDF	83.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0447			13C-2,3,4,6,7,8-HxCDF	88.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0221		13C-1,2,3,7,8,9-HxCDF	89.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0578			13C-1,2,3,4,6,7,8-HpCDF	81.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0626			13C-1,2,3,4,7,8,9-HpCDF	85.1	26 - 138	
OCDF	ND	0.0818			13C-OCDF	70.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	101	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00884

TOTALS								
Total TCDD	0.179							
Total PeCDD	0.0777							
Total HxCDD	0.383		0.633					
Total HpCDD	1.78							
Total TCDF	ND	0.109						
Total PeCDF	ND	0.0534						
Total HxCDF	ND		0.0623					
Total HpCDF	ND	0.0626						

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-076SC-A-06-07-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000855-15 Date Received: 10-Apr-2020 9:50
Project: Gasco PDI 000029-02.64	Sample Size: 15.8 g	QC Batch: B0F0227 Date Extracted: 23-Jun-2020 11:07
Date Collected: 13-Oct-2019 13:08	% Solids: 64.3	Date Analyzed : 02-Jul-20 13:03 Column: ZB-5MS 08-Jul-20 19:40 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	3.20				IS 13C-2,3,7,8-TCDD	113	25 - 164	
1,2,3,7,8-PeCDD	3.48				13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	3.26				13C-1,2,3,4,7,8-HxCDD	91.8	32 - 141	
1,2,3,6,7,8-HxCDD	16.9				13C-1,2,3,6,7,8-HxCDD	90.8	28 - 130	
1,2,3,7,8,9-HxCDD	8.37				13C-1,2,3,7,8,9-HxCDD	90.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	547				13C-1,2,3,4,6,7,8-HpCDD	82.5	23 - 140	
OCDD	5910			D	13C-OCDD	10.5	17 - 157	D, H
2,3,7,8-TCDF	201				13C-2,3,7,8-TCDF	101	24 - 169	
1,2,3,7,8-PeCDF	323				13C-1,2,3,7,8-PeCDF	110	24 - 185	
2,3,4,7,8-PeCDF	183				13C-2,3,4,7,8-PeCDF	104	21 - 178	
1,2,3,4,7,8-HxCDF	637				13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	199				13C-1,2,3,6,7,8-HxCDF	95.3	26 - 123	
2,3,4,6,7,8-HxCDF	38.4				13C-2,3,4,6,7,8-HxCDF	90.3	28 - 136	
1,2,3,7,8,9-HxCDF	21.0				13C-1,2,3,7,8,9-HxCDF	95.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	312				13C-1,2,3,4,6,7,8-HpCDF	88.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	117				13C-1,2,3,4,7,8,9-HpCDF	90.9	26 - 138	
OCDF	631				13C-OCDF	31.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	112	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 195

TOTALS			
Total TCDD	21.8		23.0
Total PeCDD	29.6		
Total HxCDD	172		
Total HpCDD	1370		
Total TCDF	857		881
Total PeCDF	973		
Total HxCDF	1180		
Total HpCDF	863		

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

KS 04/13/20
~~2000854~~ 2000855
 0.3°C

Chain of Custody Record & Laboratory Analysis Request

Laboratory Number:				Test Parameters																					
Date: 4.8.20				No. of Containers	Dioxin/furans (1613B)	Total solids (SM 2540G)																			
Project Name: Gasco PDI							Line	Field Sample ID	Collection Date/Time	Matrix															Comments/Preservation
Project Number: 000029-02.64				1	PDI-047SC-A-04-05-191001	10/01/2019 10:32:00	SE	1	X	X															Please analyze lab duplicate
Project Manager: Delaney Peterson				2	PDI-047SC-A-05-06-191001	10/01/2019 10:32:00	SE	1	X	X															
Phone Number: 360.715.2707				3	PDI-047SC-A-06-07-191001	10/01/2019 10:32:00	SE	1	X	X															
Shipment Method: FedEx				4	PDI-047SC-A-07-08-191001	10/01/2019 10:32:00	SE	1	X	X															
Samplers: dep				5	PDI-049SC-A-08-09-191015	10/15/2019 13:29:00	SE	1	X	X															
				6	PDI-049SC-A-09-10-191015	10/15/2019 13:29:00	SE	1	X	X															
				7	PDI-049SC-A-10-11-191015	10/15/2019 13:29:00	SE	1	X	X															
				8	PDI-049SC-A-11-12-191015	10/15/2019 13:29:00	SE	1	X	X															
				9	PDI-057SC-A-09-10-191023	10/23/2019 13:01:00	SE	1	X	X															
				10	PDI-057SC-A-10-11-191023	10/23/2019 13:01:00	SE	1	X	X															
				11	PDI-057SC-A-11-12-191023	10/23/2019 13:01:00	SE	1	X	X															
				12	PDI-057SC-A-12-13-191023	10/23/2019 13:01:00	SE	1	X	X															
				13	PDI-062SC-A-11-12-191023	10/23/2019 09:33:00	SE	1	X	X															
				14	PDI-062SC-A-12-13-191023	10/23/2019 09:33:00	SE	1	X	X															
				15	PDI-076SC-A-06-07-191013	10/13/2019 13:08:00	SE	1	X	X															

Relinquished By: Anthony Dalton-Alex Company: Anchor QEA LLC
 Signature/Printed Name: [Signature] Date/Time: 4/9/2020 1105

Relinquished By: _____ Company: _____
 Signature/Printed Name: _____ Date/Time: _____

Received By: Beth Benedict Company: VAC
 Signature/Printed Name: Beth Benedict Date/Time: 04/09/2020

Received By: _____ Company: _____
 Signature/Printed Name: _____ Date/Time: _____

Chain of Custody Record & Laboratory Analysis Request

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2000855

TAT Std

Samples Arrival:	Date/Time <u>04/10/20 0950</u>		Initials: <u>RSB</u>		Location: <u>WR-2</u>	
					Shelf/Rack: <u>NA</u>	
Delivered By:	<input checked="" type="radio"/> FedEx	<input type="radio"/> UPS	<input type="radio"/> On Trac	<input type="radio"/> GLS	<input type="radio"/> DHL	<input type="radio"/> Hand Delivered
Preservation:	<input checked="" type="radio"/> Ice		<input type="radio"/> Blue Ice		<input type="radio"/> Dry Ice	
Temp °C: <u>0.3</u> (uncorrected)	Probe used: Y <input checked="" type="radio"/> N			Thermometer ID: <u>IR-4</u>		
Temp °C: <u>0.3</u> (corrected)						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u>—</u> Trk # <u>7702 8046 6040</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 <input type="radio"/> Vista <input checked="" type="radio"/> Client <input checked="" type="radio"/> Retain <input type="radio"/> Return <input type="radio"/> 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 <u>04/13/20 1131</u>		Initials: <u>KS</u>
			Location: <u>WR-2</u>
			Shelf/Rack: <u>G-4</u>
COC Anomaly/Sample Acceptance Form completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2000855

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000855-01	A PDI-047SC-A-04-05-191001	<input checked="" type="checkbox"/>	01-Oct-19 10:32	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid DUP
2000855-02	A PDI-047SC-A-05-06-191001	<input checked="" type="checkbox"/>	01-Oct-19 10:32	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-03	A PDI-047SC-A-06-07-191001	<input checked="" type="checkbox"/>	01-Oct-19 10:32	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-04	A PDI-047SC-A-07-08-191001	<input checked="" type="checkbox"/>	01-Oct-19 10:32	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-05	A PDI-049SC-A-08-09-191015	<input checked="" type="checkbox"/>	15-Oct-19 13:29	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-06	A PDI-049SC-A-09-10-191015	<input checked="" type="checkbox"/>	15-Oct-19 13:29	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-07	A PDI-049SC-A-10-11-191015	<input checked="" type="checkbox"/>	15-Oct-19 13:29	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-08	A PDI-049SC-A-11-12-191015 <i>KL</i>	<input checked="" type="checkbox"/>	15-Oct-19 13:29	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-09	A PDI-057SC-A-09-10-191023	<input checked="" type="checkbox"/>	23-Oct-19 13:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-10	A PDI-057SC-A-10-11-191023	<input checked="" type="checkbox"/>	23-Oct-19 13:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-11	A PDI-057SC-A-11-12-191023	<input checked="" type="checkbox"/>	23-Oct-19 13:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-12	A PDI-057SC-A-12-13-191023	<input checked="" type="checkbox"/>	23-Oct-19 13:01	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-13	A PDI-062SC-A-11-12-191023	<input checked="" type="checkbox"/>	23-Oct-19 09:33	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-14	A PDI-062SC-A-12-13-191023	<input checked="" type="checkbox"/>	23-Oct-19 09:33	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2000855-15	A PDI-076SC-A-06-07-191013	<input checked="" type="checkbox"/>	13-Oct-19 13:08	<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:

Sample was received broken; transferred into new jar

Verified by/Date: *KS 04/13/20*



ANOMALY FORM

Vista Work Order 2000855

Initial/Date _____ The following checked issues were noted during sample receipt and login:

- 1. The samples were received out of temperature at (WI-PHT): _____
Was Ice present: Yes No Melted Blue Ice
- 2. The Chain-of-Custody (CoC) was not relinquished properly.
- 3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.
- 4. The sample(s) did not include a sample collection time. All or Sample Name: _____
- 5. A sample ID discrepancy was found. See the Reconciliation report.
The CoC Sample ID will be used unless notified otherwise.
- 6. A sample date and/or time discrepancy was found. See the Reconciliation report.
The CoC Sample date/time will be used unless notified otherwise.
- 7. The CoC did not include a sample matrix. The following sample matrix will be used: _____
- 8. Insufficient volume received for analysis. All or Sample Name: _____
- 9. The backup bottle was received broken. Sample Name: _____
- 10. CoC not received, illegible or destroyed.
- 11. The sample(s) were received out of holding time. All or Sample Name: _____
- 12. The CoC did not include an analysis. All or Sample Name: _____
- 13. Sample(s) received without collection date. All or Sample Name: _____
- 14. Sample(s) not received. All or Sample Name: _____
- KS 04/13/20 15. Sample(s) received broken. All or Sample Name: PDI-495C-A-11-12-191015
- 16. An incorrect container-type was used. All or Sample Name: _____
- 17. Other:

Bolded items require sign-off

Client Contacted: 04/14/20

Date of Contact: _____

Vista Client Manager: _____

Resolution: Per Client instructions okay to proceed.

EXTRACTION INFORMATION

PRIORITY

Process Sheet

Workorder: **2000855**

Prep Expiration: 2020-09-30
Client: Anchor QEA, LLC

Workorder Due: **01-May-20 00:00**

TAT: 21

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

Prep Batch: BOD 0167

Prep Data Entered: 00 04/19/20
Date and Initials

Initial Sequence: SOE0012

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000855-01	<input checked="" type="checkbox"/>	PDI-047SC-A-04-05-191001	10-Apr-20 09:50	WR-2 G-4	DUP
2000855-02	<input checked="" type="checkbox"/>	PDI-047SC-A-05-06-191001	10-Apr-20 09:50	WR-2 G-4	
2000855-03	<input checked="" type="checkbox"/>	PDI-047SC-A-06-07-191001	10-Apr-20 09:50	WR-2 G-4	
2000855-04	<input checked="" type="checkbox"/>	PDI-047SC-A-07-08-191001	10-Apr-20 09:50	WR-2 G-4	
2000855-05	<input checked="" type="checkbox"/>	PDI-049SC-A-08-09-191015	10-Apr-20 09:50	WR-2 G-4	
2000855-06	<input checked="" type="checkbox"/>	PDI-049SC-A-09-10-191015	10-Apr-20 09:50	WR-2 G-4	
2000855-07	<input checked="" type="checkbox"/>	PDI-049SC-A-10-11-191015	10-Apr-20 09:50	WR-2 G-4	
2000855-08	<input checked="" type="checkbox"/>	PDI-049SC-A-11-12-191015	10-Apr-20 09:50	WR-2 G-4	
2000855-09	<input checked="" type="checkbox"/>	PDI-057SC-A-09-10-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-10	<input checked="" type="checkbox"/>	PDI-057SC-A-10-11-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-11	<input checked="" type="checkbox"/>	PDI-057SC-A-11-12-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-12	<input checked="" type="checkbox"/>	PDI-057SC-A-12-13-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-13	<input checked="" type="checkbox"/>	PDI-062SC-A-11-12-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-14	<input checked="" type="checkbox"/>	PDI-062SC-A-12-13-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-15	<input checked="" type="checkbox"/>	PDI-076SC-A-06-07-191013	10-Apr-20 09:50	WR-2 G-4	

WO Comments: **Dioxin - 10g (dry weight)**

DF 04/15/20

RR 04/15/20

Pre-Prep Check Out: _____

Prep Check Out: EM 04/15/20

Prep Reconciled Initials/Date: EM 04/15/20

Pre-Prep Check In: _____

Prep Check In: EM 04/15/20

Spike Reconciled Initials/Date: AF 04/15/20

VialBoxID: No name

PREPARATION BENCH SHEET

Matrix: Solid

B0D0167

Chemist: EM

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 14-Apr-20 14:07

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"/>	B0D0167-BLK1	NA	(10.00)	RR 04/15/20	AO 04/15/20	NA	AO 04/19/20	AO 04/19/20	AO 04/19/20	AO 04/19/20
<input type="checkbox"/>	B0D0167-BS1	J	(10.00)							
<input type="checkbox"/>	B0D0167-DUP1									
<input type="checkbox"/>	2000855-01	11.710	11.77							
<input type="checkbox"/>	2000855-02	11.76	11.86							
<input type="checkbox"/>	2000855-03	12.39	12.48							
<input type="checkbox"/>	2000855-04	11.54	11.57							
<input type="checkbox"/>	2000855-05	13.14	13.16							
<input type="checkbox"/>	2000855-06	14.32	14.33							
<input type="checkbox"/>	2000855-07	12.71	12.72							
<input type="checkbox"/>	2000855-08	15.00	15.02							
<input type="checkbox"/>	2000855-09	13.85	13.96							
<input type="checkbox"/>	2000855-10	13.76	13.78							
<input type="checkbox"/>	2000855-11	14.42	14.54							
<input type="checkbox"/>	2000855-12	13.67	13.63							
<input type="checkbox"/>	2000855-12	15.10	15.15							

IS Name	NS Name	CRS Name	RS Name	Cycle Time	APP: <u>SELEN</u> SOX <u>SDS</u>	Check Out: <u>EM 04/15/20</u>
PCDD/F <u>9L2301, 10mL</u>	PCDD/F <u>1BF1913, 10mL</u>	PCDD/F <u>19F1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time <u>04/15/20 1452</u>	SOLV: <u>Toluene</u>	Check In: <u>EM 04/15/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>04/16/20</u>	Other <u>NA</u>	Balance ID: <u>HRMS-09</u>
PAH	PAH	PAH	PAH		Final Volume(s) <u>C14 20mL</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

0720 (A) Channels formed in ABSG column, causing it to slow down AO 04/19/20

PREPARATION BENCH SHEET

Matrix: Solid

B0D0167

Chemist: YIM

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 14-Apr-20 14:07

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"/>	2000855-13	12.84	12.90	RR 04/15/20	AO 04/19/20	NA	AO 04/19/20	AO 04/19/20	AO 04/19/20	AO 04/19/20
<input type="checkbox"/>	2000855-14	13.22	13.27	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000855-15	15.54	15.57	↓	↓	↓	↓ black	↓	↓	↓

IS Name <u>V1</u>	NS Name <u>V2</u>	CRS Name <u>V2</u>	RS Name <u>V2</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>YIM 04/15/20</u>
PCDD/F <u>1912301, 10mL</u>	PCDD/F <u>18F1913, 10mL</u>	PCDD/F <u>1951602, 10mL</u>	PCDD/F <u>1951603, 10mL</u>	Start Date/Time <u>04/15/20</u>	SOLV: <u>Toluene</u>	Chemist/Date: <u>YIM 04/15/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>04/16/20</u>	Other <u>NA</u>	Check In: <u>YIM 04/15/20</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14</u>	<u>20mL</u>	Balance ID: <u>HRMS-09</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

0720

Analyst: AO Analyte: Oven ID: 01 02	Test Code: %Moist/%Solids Units: % Dried at 110°C±5°C	Data Entry Verified by: (Initial and Date) <i>AO 04/14/20</i>
---	---	--

Inst HRMS-9 Date/Time IN: 04/13/20 1452 Date/Time OUT: 04/14/20 0702

Particle Size	SampID	SampType	Initial and Date:		G		Dry Sample Weight (g)	%Solids RawVal	AO 04/13/20				Sample Homogenized*
			Pan Tare WL (gms)	Wet Pan and Sample Weight (g)	EM 04/14/20	Dry Pan and Sample Weight (g)			Visual Inspection	Cl-	pH Before	pH After	
	2000855-01	Sample	1.2900	9.0300	7.8700	6.5800	85.01	MUD	NA	NA	NA	NA	X
	2000855-02	Sample	1.3200	9.1900	7.6700	6.3500	80.69	MUD	NA	NA	NA	NA	X
	2000855-03	Sample	1.3100	7.6000	6.7600	5.4500	86.65	MUD	NA	NA	NA	NA	X
	2000855-04	Sample	1.3100	14.3300	11.2200	9.9100	76.11	MUD	NA	NA	NA	NA	X
	2000855-05	Sample	1.3000	14.1000	10.2400	8.9400	89.84	MUD	NA	NA	NA	NA	X
	2000855-06	Sample	1.3000	10.1700	8.2800	6.9800	78.69	MUD	NA	NA	NA	NA	X
	2000855-07	Sample	1.3100	12.5000	8.7700	7.4600	86.67	MUD	NA	NA	NA	NA	X
	2000855-08	Sample	1.2800	14.8400	11.0700	9.7900	72.20	MUD	NA	NA	NA	NA	X
	2000855-09	Sample	1.3200	11.7800	8.9200	7.6000	72.66	MUD	NA	NA	NA	NA	X
	2000855-10	Sample	1.3100	9.8300	7.2200	5.9100	69.37	MUD	NA	NA	NA	NA	X
	2000855-11	Sample	1.3100	10.5800	8.1400	6.8300	73.68	MUD	NA	NA	NA	NA	X
	2000855-12	Sample	1.2900	13.0200	9.0600	7.7700	66.24	MUD	NA	NA	NA	NA	X
	2000855-13	Sample	1.3100	10.3100	8.3200	7.0100	77.89	MUD	NA	NA	NA	NA	X
	2000855-14	Sample	1.3100	12.5900	9.8400	8.5300	75.62	MUD	NA	NA	NA	NA	X
	2000855-15	Sample	1.3100	12.0500	8.2200	6.9100	64.34	MUD	NA	NA	NA	NA	X
	2000856-01	Sample	1.2800	12.5300	7.5700	6.2900	55.91	MUD	NA	NA	NA	NA	X
	2000856-02	Sample	1.3000	13.0100	7.9200	6.6200	56.53	MUD	NA	NA	NA	NA	X
	2000856-03	Sample	1.2900	16.0200	9.0100	7.7200	52.41	MUD	NA	NA	NA	NA	X
	2000856-04	Sample	1.3100	25.1400	14.8500	13.5400	56.82	MUD	NA	NA	NA	NA	X
	2000856-05	Sample	1.3200	10.5800	7.0500	5.7300	61.88	MUD	NA	NA	NA	NA	X
	2000856-06	Sample	1.3000	11.7500	7.1300	5.8300	55.79	MUD	NA	NA	NA	NA	X
	2000856-07	Sample	1.2900	11.8800	7.7500	6.4600	61.00	MUD	NA	NA	NA	NA	X
	2000856-08	Sample	1.2800	8.9400	7.3400	6.0600	79.11	MUD	NA	NA	NA	NA	X
	2000856-09	Sample	1.2900	9.0800	7.4000	6.1100	78.43	MUD	NA	NA	NA	NA	X
	2000856-10	Sample	1.3200	9.2500	7.4400	6.1200	77.18	MUD	NA	NA	NA	NA	X

*Sample homogenized in sample container unless otherwise noted.

D2216-90

BATCH ID B0D0151

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

Inst HRMS-9 Date/Time IN: 04/13/20 Date/Time OUT: 04/14/20
17:32 07:02

Particle Size	SampleID	SampType	Initial and Date: <u>AO 04/13/20</u>		Date/Time IN: <u>04/13/20</u>		Date/Time OUT: <u>04/14/20</u>		Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal							
	2000855-01	Sample	1.29	9.03	7.87				MUD					X
	2000855-02	Sample	1.32	9.19	7.67									
	2000855-03	Sample	1.31	7.60	6.76									
	2000855-04	Sample	1.31	14.30	11.22									
	2000855-05	Sample	1.30	14.10	10.24									
	2000855-06	Sample	1.30	10.17	8.28									
	2000855-07	Sample	1.31	12.50	8.77									
	2000855-08	Sample	1.28	14.84	11.07									
	2000855-09	Sample	1.32	11.78	8.92									
	2000855-10	Sample	1.31	9.83	7.22									
	2000855-11	Sample	1.31	10.58	8.14									
	2000855-12	Sample	1.29	13.02	9.06									
	2000855-13	Sample	1.31	10.31	8.32									
	2000855-14	Sample	1.31	17.59	9.84									
	2000855-15	Sample	1.31	12.05	8.22									
	2000856-01	Sample	1.28	12.53	7.57									
	2000856-02	Sample	1.30	13.01	7.92									
	2000856-03	Sample	1.29	16.02	9.01									
	2000856-04	Sample	1.31	25.14	14.85									
	2000856-05	Sample	1.32	10.58	7.05									
	2000856-06	Sample	1.30	11.72	7.13									
	2000856-07	Sample	1.29	11.88	7.75									
	2000856-08	Sample	1.28	8.94	7.34									
	2000856-09	Sample	1.29	9.08	7.40									
	2000856-10	Sample	1.32	9.25	7.44									

*Sample homogenized in sample container unless otherwise noted.

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000855-01	11.86	85.01292	10.0825	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-02	12.48	80.68616	10.0696	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-03	11.57	86.64548	10.0249	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-04	13.16	76.11367	10.0166	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-05	14.33	69.84375	10.0086	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-06	12.72	78.69221	10.0096	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-07	15.02	66.66667	10.0133	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-08	13.96	72.19764	10.0788	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-09	13.78	72.65775	10.0122	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-10	14.54	69.3662	10.0858	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-11	13.63	73.67854	10.0424	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-12	15.15	66.24041	10.0354	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-13	12.9	77.88889	10.0477	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-14	13.27	75.62057	10.0348	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
2000855-15	15.57	64.33892	10.0176	20	15-Apr-20 14:07	ACO			Sediment	1613 Full List
B0D0167-BLK1	10			20	15-Apr-20 14:07	ACO				QC
B0D0167-BS1	10			20	15-Apr-20 14:07	ACO	18F1913	10		QC
B0D0167-DUP1	11.77	85.01292	10.0060207	20	15-Apr-20 14:07	ACO				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 04/19/20

Process Sheet
 Workorder: **2000855**

RX²

07 04/24/2020
 Workorder Due: 08-May-20 00:00

Prep Expiration: 2020-09-30
 Client: Anchor QEA, LLC

TAT: 28

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

Prep Batch: **BOF0227**

Prep Data Entered: **06/26/20 RD**
Date and Initials

Initial Sequence: **SOFO091**

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000855-01	<input type="checkbox"/>	PDI-047SC-A-04-05-191001	10-Apr-20 09:50	WR-2 G-4	DUP
2000855-02	<input type="checkbox"/>	PDI-047SC-A-05-06-191001	10-Apr-20 09:50	WR-2 G-4	
2000855-03	<input type="checkbox"/>	PDI-047SC-A-06-07-191001	10-Apr-20 09:50	WR-2 G-4	
2000855-04	<input type="checkbox"/>	PDI-047SC-A-07-08-191001	10-Apr-20 09:50	WR-2 G-4	
2000855-05	<input type="checkbox"/>	PDI-049SC-A-08-09-191015	10-Apr-20 09:50	WR-2 G-4	
2000855-06	<input type="checkbox"/>	PDI-049SC-A-09-10-191015	10-Apr-20 09:50	WR-2 G-4	
2000855-07	<input type="checkbox"/>	PDI-049SC-A-10-11-191015	10-Apr-20 09:50	WR-2 G-4	
2000855-08	<input type="checkbox"/>	PDI-049SC-A-11-12-191015	10-Apr-20 09:50	WR-2 G-4	
2000855-09	<input type="checkbox"/>	PDI-057SC-A-09-10-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-10	<input type="checkbox"/>	PDI-057SC-A-10-11-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-11	<input type="checkbox"/>	PDI-057SC-A-11-12-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-12	<input checked="" type="checkbox"/>	PDI-057SC-A-12-13-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-13	<input type="checkbox"/>	PDI-062SC-A-11-12-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-14	<input type="checkbox"/>	PDI-062SC-A-12-13-191023	10-Apr-20 09:50	WR-2 G-4	
2000855-15	A <input checked="" type="checkbox"/>	PDI-076SC-A-06-07-191013	10-Apr-20 09:50	WR-2 G-4	

WO Comments: Dioxin - 10g (dry weight)

Pre-Prep Check Out: NA Prep Check Out: AO 06/23/20 Prep Reconciled Inits/Date: AO 06/23/20
 Pre-Prep Check In: NA Prep Check In: AO 06/23/20 Spike Reconciled Inits/Date: *E 06/23/20
 VialBoxID: V-22

PREPARATION BENCH SHEET

Matrix: Solid

B0F0227

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 23-Jun-20 11:07

Method: 8290 Full DoD (LOO as RL)

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	Florisil CHEM/ DATE	RS CHEM/WIT DATE
	B0F0227-BLK1	NA	(10.00)	PF RR 06/24/20	DF 06/25/20	NA	RN 06/25/20	RN 06/25/20	DF 06/25/20	RR ME 06/26/20
	B0F0227-BS1	↑	(10.00)	↓	↓	↓	↓	↓	↓	↓
	B0F0227-BS2	(A)	(10.00)	↓	↓	↓	↓	↓	↓	↓
	B0F0227-BS3	(B)	(10.00)	↓	↓	↓	↓	↓	↓	↓
	2000855-15RE3	15.94	15.83	PF 06/24/20	DF 06/25/20	NA	06/25/20	Yellow 06/25/20	DF 06/26/20	RR ME 06/26/20
	2001207-01	10.47	10.85	↓	↓	↓	ZN	ZN	↓	↓
	2001207-02	10.97	11.15	↓	↓	↓	↓	yellow	↓	↓
	2001207-03	15.57	15.85	↓	↓	↓	↓	↓	↓	↓
	2001207-04	12.33	12.79	↓	↓	↓	↓	↓	↓	↓
	2001243-03	20.20	21.23	↓	↓	↓	↓	↓	↓	↓
	2001243-10	19.51	21.03	↓	↓	↓	↓	↓	↓	↓

~~(A) LOD spiked w/ 2000701, 30ul AO 06/23/20 * *~~
~~(B) LOQ spiked at 40ul w/ 2000701 AO 06/23/20 * *~~

IS: 19L2301, 10uL (V1)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: AO 06/23/20	Soxhlet Siphoned Chemist/Date: DF 06/24/20	Notes: * AO 06/23/20
NS: 18F1913, 10uL (Vc)	Start Date/Time: 06/24/20	SOLV: Toluene	Check In: Chemist/Date: AO 06/23/20		** DF 06/24/20
PS/CRS: 20E0701, 10uL (V5)	Stop Date/Time: 06/23/20	Other: NA	Balance ID: HRMS-9	Vial Transfer Chemist/Date: RR 06/26/20	** RR 06/25/20
RS: 20E0702, 10uL (V5)	Final Volume(s): C14 20uL				
Diox/F PCB PAH PEST PBDE HCB	06/25/20				

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: B0F0227

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000855-15RE3	15.83 ✓	64.33892	10.1849	20 ✓	23-Jun-20 11:07 ✓	ACO ✓			Sediment	1613 Full List
2001207-01	10.85 ✓	96.08109	10.4248	20	23-Jun-20 11:07	ACO			Solid	8290 Full DoD (LOQ as RL)
2001207-02	11.15 ✓	91.14285	10.1624	20	23-Jun-20 11:07	ACO			Solid	8290 Full DoD (LOQ as RL)
2001207-03	15.85 ✓	64.21404	10.1779	20	23-Jun-20 11:07	ACO			Solid	8290 Full DoD (LOQ as RL)
2001207-04	12.79 ✓	81.07735	10.3698	20	23-Jun-20 11:07	ACO			Solid	8290 Full DoD (LOQ as RL)
2001243-03	21.23 ✓	49.49785	10.5084	20	23-Jun-20 11:07	ACO			Soil	8290 Full DoD (LOQ as RL)
2001243-10	21.03 ✓	51.24688	10.7772	20	23-Jun-20 11:07	ACO			Solid	8290 Full DoD (LOQ as RL)
B0F0227-BLK1	10 ✓			20	23-Jun-20 11:07	ACO				QC
B0F0227-BS1	10 ✓			20	23-Jun-20 11:07	ACO	18F1913 ✓	10 ✓		QC
B0F0227-BS2	10			20	23-Jun-20 11:07	ACO				QC
B0F0227-BS3	10			20 ✓	23-Jun-20 11:07 ✓	ACO ✓				QC

All bolded data on report verified against written benchsheet by (initial/date) RR / 06/26/20

Printed: 6/26/2020 11:18:55AM
Page 1 of 1

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-5.qld

Last Altered: Tuesday, June 02, 2020 09:07:36 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:08:28 Pacific Daylight Time

GRB 6/6/2020

LY 06/05/2020

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: 200601R3_5, Date: 01-Jun-2020, Time: 18:10:21, ID: B0D0167-BLK1 Method Blank 10, Description: Method Blank

1	2,3,7,8-TCDD			NO	0.888	10.000	26.546		1.001					0.0592	
2	1,2,3,7,8-PeCDD			NO	0.908	10.000	31.488		1.001					0.0519	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.000	34.846		1.000					0.0930	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.000	34.943		1.000					0.0908	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.000	35.231		1.000					0.103	
6	1,2,3,4,6,7,8-HpCDD			NO	0.864	10.000	38.768		1.000					0.156	
7	OCDD	5.77e2	0.94	NO	0.914	10.000	41.748	41.75	1.000	1.000	0.48876			0.153	0.489
8	2,3,7,8-TCDF			NO	0.751	10.000	25.641		1.001					0.0330	
9	1,2,3,7,8-PeCDF			NO	0.893	10.000	30.205		1.001					0.0440	
10	2,3,4,7,8-PeCDF			NO	0.935	10.000	31.192		1.001					0.0408	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.000	33.963		1.000					0.0637	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.000	34.090		1.000					0.0590	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.000	34.701		1.001					0.0633	
14	1,2,3,7,8,9-HxCDF	1.50e2	1.22	NO	0.871	10.000	35.582	35.60	1.000	1.001	0.073011			0.0417	0.0730
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.000	37.387		1.001					0.101	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	39.299		1.000					0.102	
17	OCDF			NO	0.806	10.000	41.940		1.000					0.0848	
18	13C-2,3,7,8-TCDD	7.90e5	0.79	NO	1.16	10.000	26.538	26.51	1.026	1.025	175.82	87.9		0.197	
19	13C-1,2,3,7,8-PeCDD	5.37e5	0.65	NO	0.849	10.000	31.729	31.47	1.227	1.217	162.78	81.4		0.241	
20	13C-1,2,3,4,7,8-HxCDD	4.18e5	1.28	NO	0.779	10.000	34.841	34.84	1.014	1.014	166.09	83.0		0.299	
21	13C-1,2,3,6,7,8-HxCDD	5.07e5	1.30	NO	1.02	10.000	34.955	34.94	1.017	1.017	154.55	77.3		0.229	
22	13C-1,2,3,7,8,9-HxCDD	4.77e5	1.25	NO	0.903	10.000	35.226	35.22	1.025	1.025	163.58	81.8		0.258	
23	13C-1,2,3,4,6,7,8-HpCDD	3.33e5	1.02	NO	0.689	10.000	38.751	38.76	1.128	1.128	149.88	74.9		0.319	
24	13C-OCDD	5.17e5	0.94	NO	0.652	10.000	41.775	41.75	1.216	1.215	245.41	61.4		0.377	
25	13C-2,3,7,8-TCDF	1.09e6	0.77	NO	1.06	10.000	25.578	25.61	0.989	0.991	171.25	85.6		0.241	
26	13C-1,2,3,7,8-PeCDF	8.61e5	1.61	NO	0.838	10.000	30.111	30.18	1.165	1.167	171.10	85.5		0.433	
27	13C-2,3,4,7,8-PeCDF	8.30e5	1.61	NO	0.817	10.000	31.065	31.16	1.202	1.205	169.26	84.6		0.445	
28	13C-1,2,3,4,7,8-HxCDF	5.46e5	0.51	NO	1.01	10.000	33.972	33.96	0.989	0.989	167.88	83.9		0.528	
29	13C-1,2,3,6,7,8-HxCDF	6.17e5	0.50	NO	1.17	10.000	34.096	34.08	0.992	0.992	163.76	81.9		0.456	
30	13C-2,3,4,6,7,8-HxCDF	5.68e5	0.50	NO	1.02	10.000	34.670	34.67	1.009	1.009	172.26	86.1		0.521	
31	13C-1,2,3,7,8,9-HxCDF	4.71e5	0.53	NO	0.860	10.000	35.570	35.58	1.035	1.036	169.80	84.9		0.619	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-5.qld

Last Altered: Tuesday, June 02, 2020 09:07:36 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 09:08:28 Pacific Daylight Time

Name: 200601R3_5, Date: 01-Jun-2020, Time: 18:10:21, ID: B0D0167-BLK1 Method Blank 10, Description: Method Blank

Item	Concentration	Yield	NO	FR	Wt%	FR	FR	FR	FR	FR	FR	FR	FR
32 13C-1,2,3,4,6,7,8-HpCDF	3.84e5	0.43	NO	0.774	10.000	37.319	37.35	1.086	1.087	153.62	76.8	0.413	
33 13C-1,2,3,4,7,8,9-HpCDF	2.73e5	0.43	NO	0.521	10.000	39.349	39.30	1.145	1.144	162.13	81.1	0.614	
34 13C-OCDF	6.56e5	0.85	NO	0.746	10.000	41.946	41.94	1.221	1.221	272.39	68.1	0.387	
35 37Cl-2,3,7,8-TCDD	3.23e5			1.04	10.000	26.569	26.53	1.028	1.026	80.145	100	0.0395	
36 13C-1,2,3,4-TCDD	7.77e5	0.81	NO	1.00	10.000	25.890	25.85	1.000	1.000	200.00	100	0.228	
37 13C-1,2,3,4-TCDF	1.20e6	0.81	NO	1.00	10.000	24.360	24.18	1.000	1.000	200.00	100	0.255	
38 13C-1,2,3,4,6,9-HxCDF	6.46e5	0.51	NO	1.00	10.000	34.420	34.36	1.000	1.000	200.00	100	0.532	
39 Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0391	
40 Total Penta-Dioxins				0.908	10.000	29.960		0.000				0.0229	
41 Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.0455	
42 Total Hepta-Dioxins				0.864	10.000	37.640		0.000				0.0892	
43 Total Tetra-Furans				0.751	10.000	23.610		0.000				0.0169	
44 1st Func. Penta-Furans				0.893	10.000	27.580		0.000				0.00793	
45 Total Penta-Furans				0.893	10.000	29.275		0.000				0.0199	
46 Total Hexa-Furans				0.934	10.000	33.555		0.000		0.073011		0.0296	0.0917
47 Total Hepta-Furans				0.873	10.000	37.835		0.000				0.0531	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-5.qld

Last Altered: Tuesday, June 02, 2020 09:07:36 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:08:28 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: 200601R3_5, Date: 01-Jun-2020, Time: 18:10:21, ID: B0D0167-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

Name	RT	Height	m1 Resp	m2 Resp	RA	Area	Area	Area	Area	Area

Penta-Dioxins

Name	RT	Height	m1 Resp	m2 Resp	RA	Area	Area	Area	Area	Area

Hexa-Dioxins

Name	RT	Height	m1 Resp	m2 Resp	RA	Area	Area	Area	Area	Area

Hepta-Dioxins

Name	RT	Height	m1 Resp	m2 Resp	RA	Area	Area	Area	Area	Area

Tetra-Furans

Name	RT	Height	m1 Resp	m2 Resp	RA	Area	Area	Area	Area	Area

Penta-Furans function 1

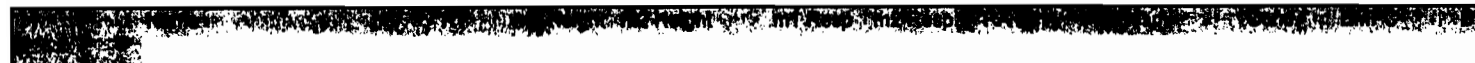
Name	RT	Height	m1 Resp	m2 Resp	RA	Area	Area	Area	Area	Area

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-5.qld

Last Altered: Tuesday, June 02, 2020 09:07:36 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:08:28 Pacific Daylight Time

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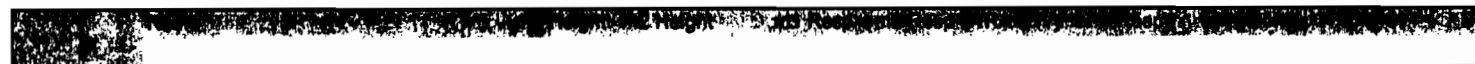
Penta-Furans



Hexa-Furans

1,2,3,7,8,9-HxCDF	35.60	2.421e3	1.822e3	8.222e1	6.752e1	1.22	NO	1.497e2	0.073011	0.073011	0.0417
Total Hexa-Furans	35.63	1.405e3	1.284e3	2.658e1	3.176e1	0.84	YES	0.000e0	0.00000	0.018676	0.0296

Hepta-Furans



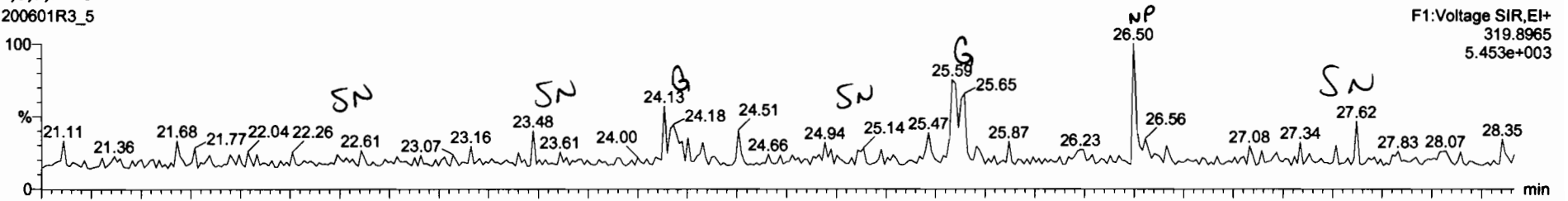
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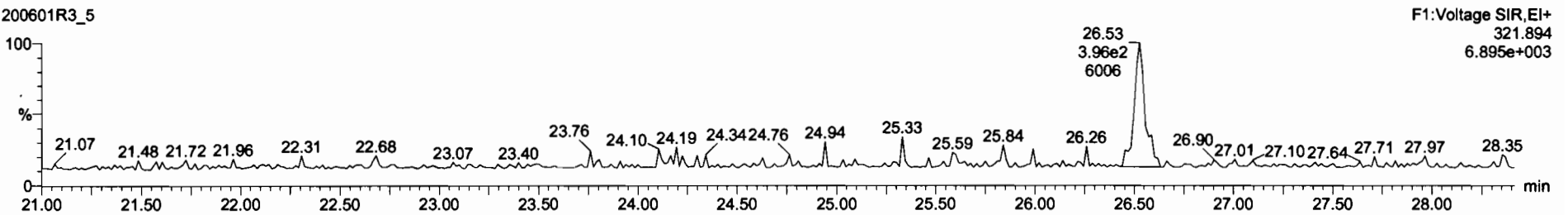
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2,3,7,8-TCDD

200601R3_5

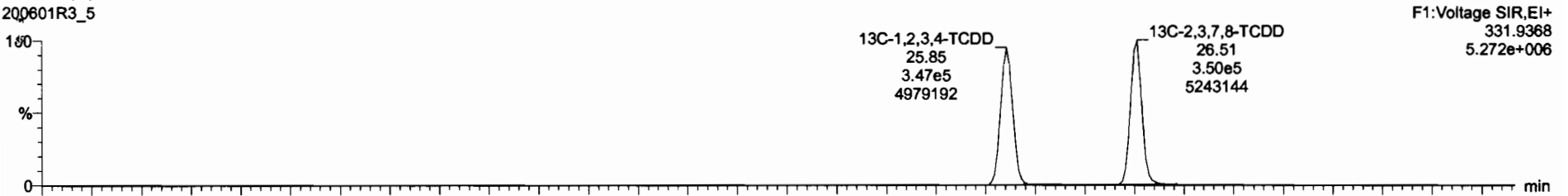


200601R3_5

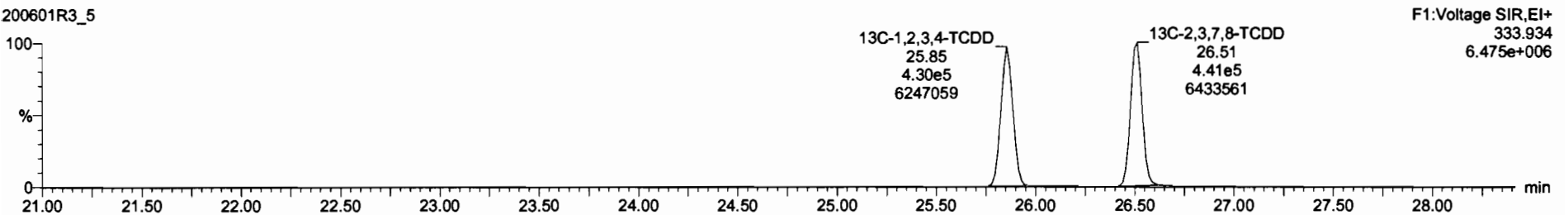


13C-2,3,7,8-TCDD

200601R3_5



200601R3_5



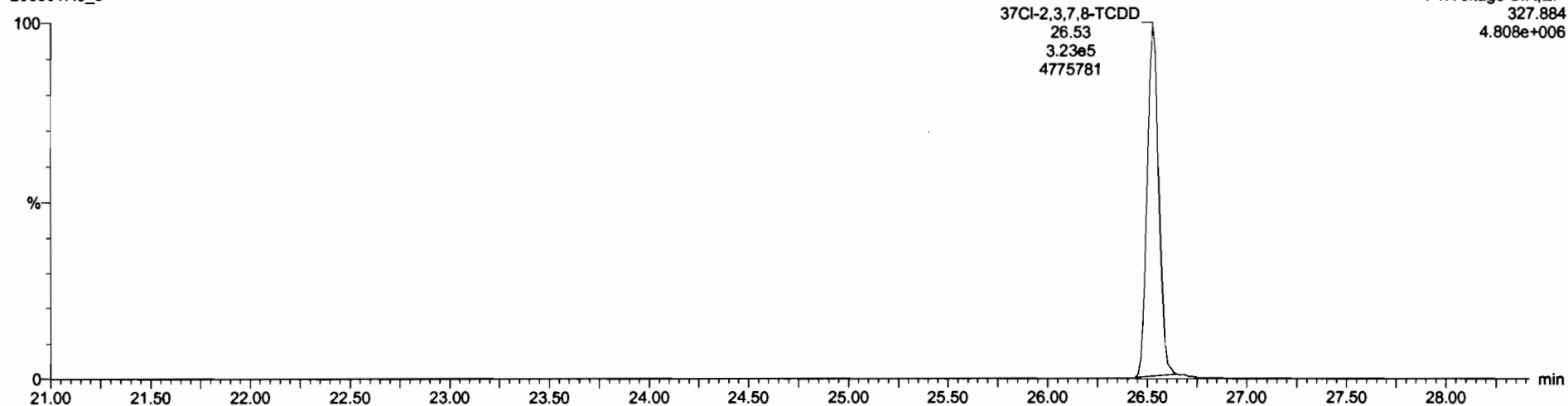
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
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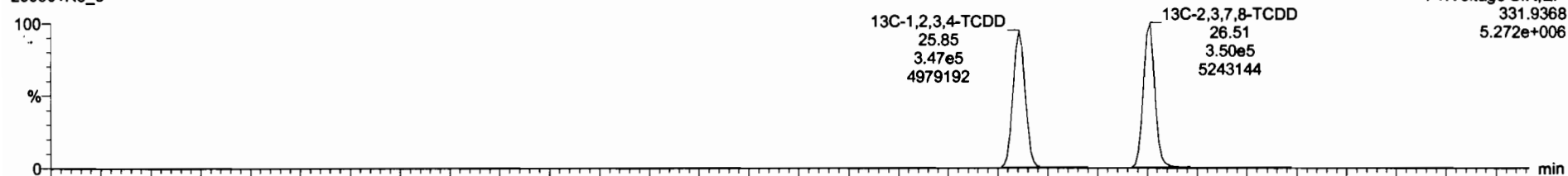
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200601R3_5

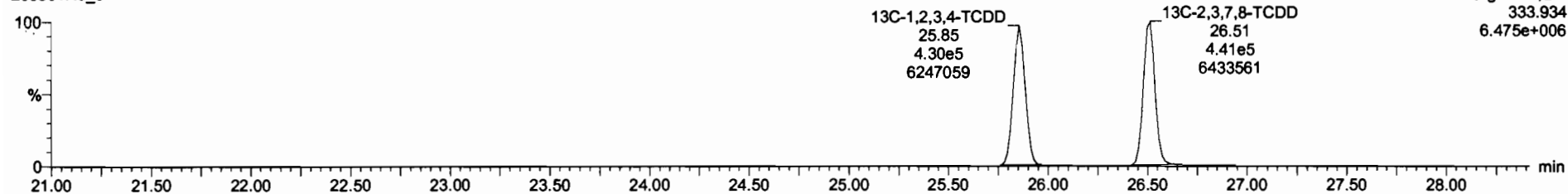


13C-1,2,3,4-TCDD

200601R3_5



200601R3_5



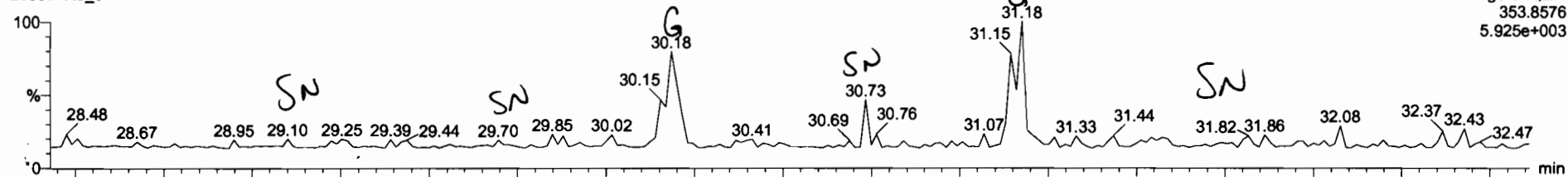
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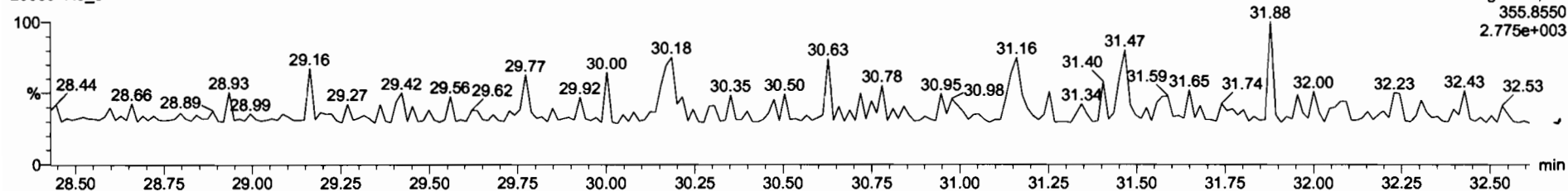
1,2,3,7,8-PeCDD

200601R3_5



F2: Voltage SIR, EI+
353.8576
5.925e+003

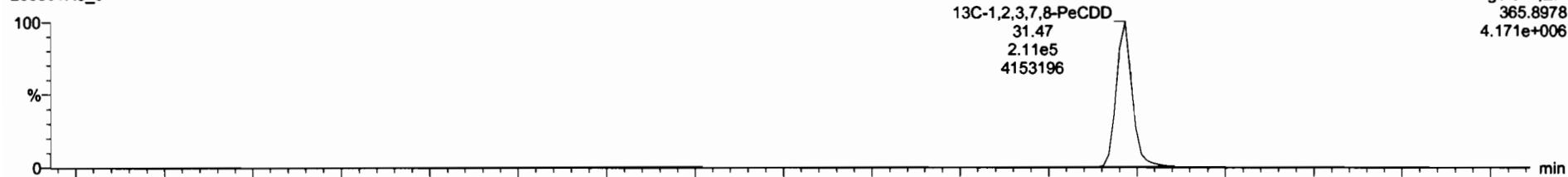
200601R3_5



F2: Voltage SIR, EI+
355.8550
2.775e+003

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

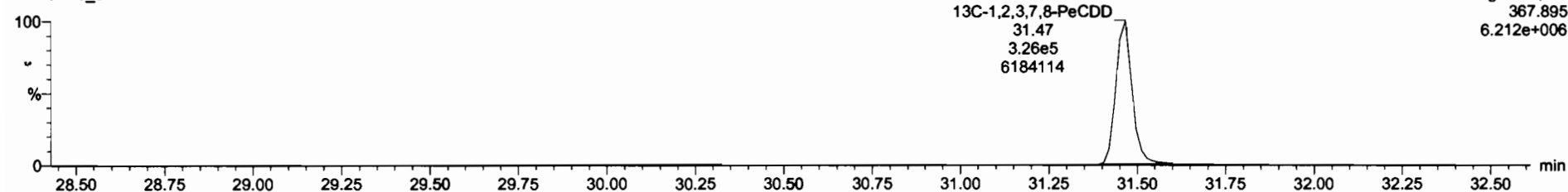
200601R3_5



13C-1,2,3,7,8-PeCDD
31.47
2.11e5
4153196

F2: Voltage SIR, EI+
365.8978
4.171e+006

200601R3_5



13C-1,2,3,7,8-PeCDD
31.47
3.26e5
6184114

F2: Voltage SIR, EI+
367.895
6.212e+006

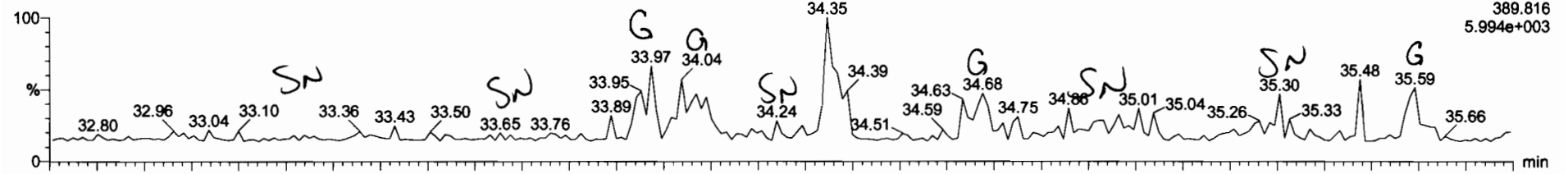
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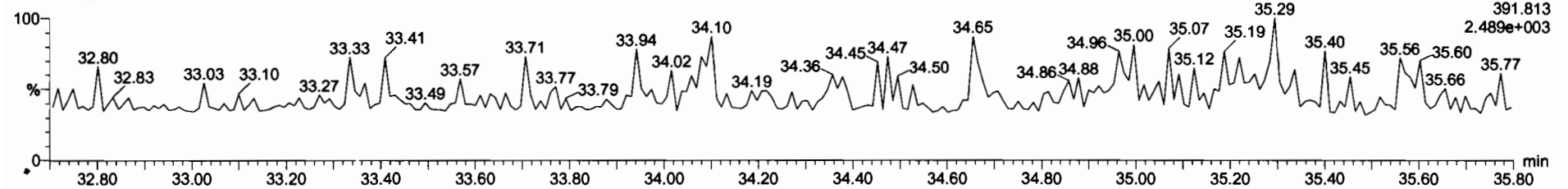
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1,2,3,4,7,8-HxCDD

200601R3_5

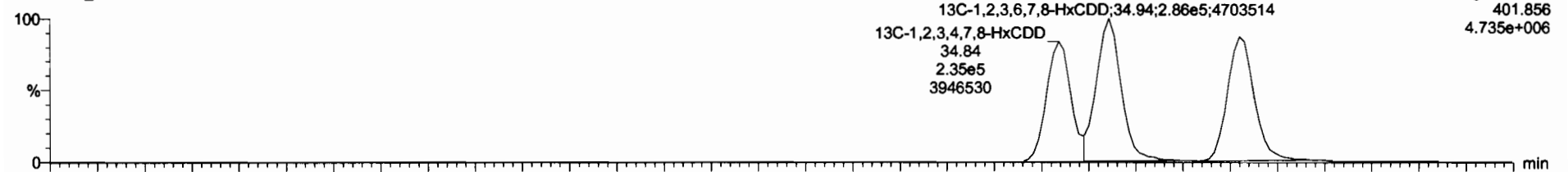


200601R3_5

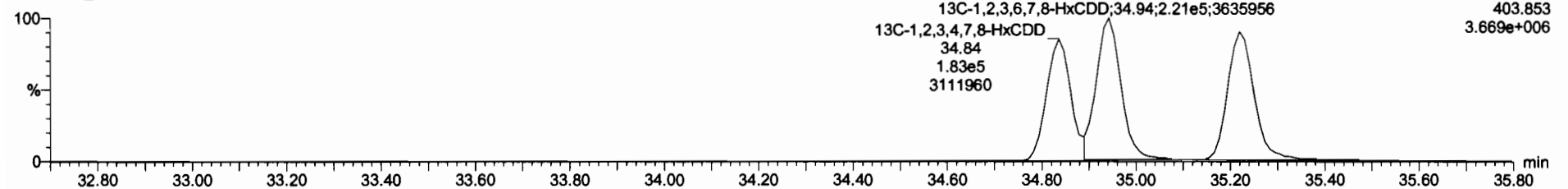


13C-1,2,3,4,7,8-HxCDD

200601R3_5



200601R3_5



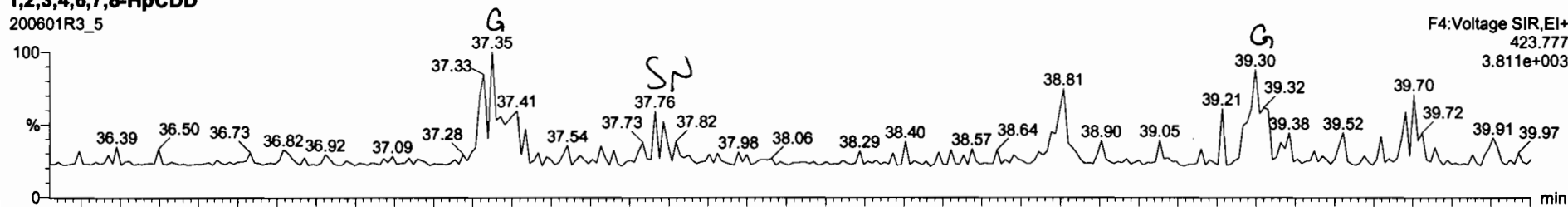
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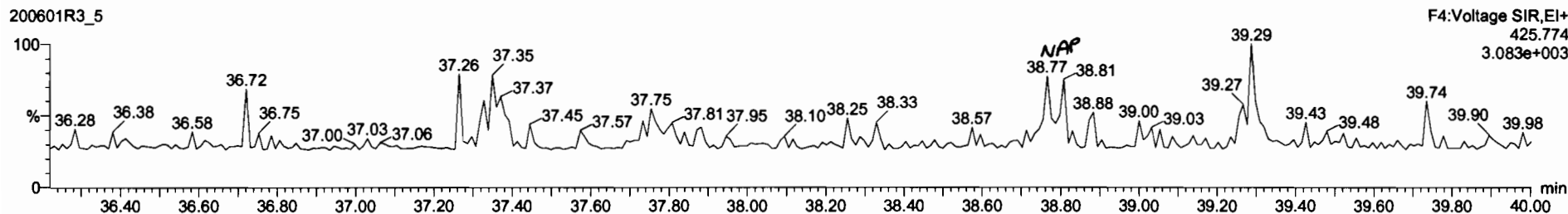
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1,2,3,4,6,7,8-HpCDD

200601R3_5

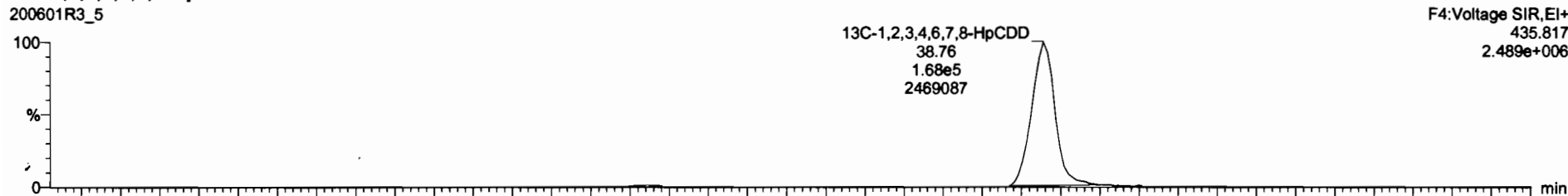


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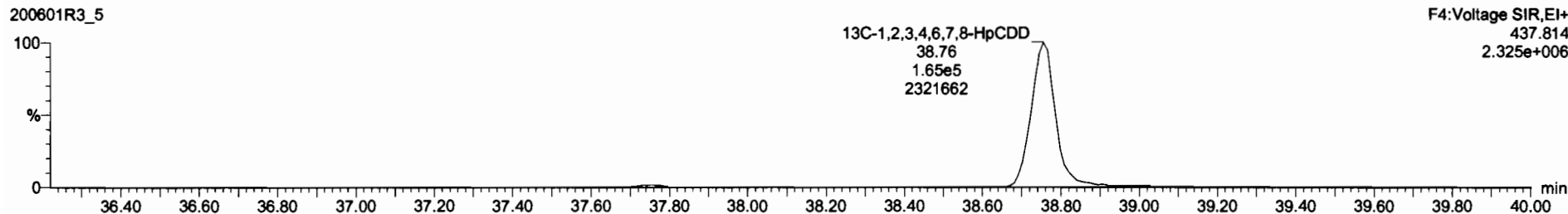


13C-1,2,3,4,6,7,8-HpCDD

200601R3_5



200601R3_5

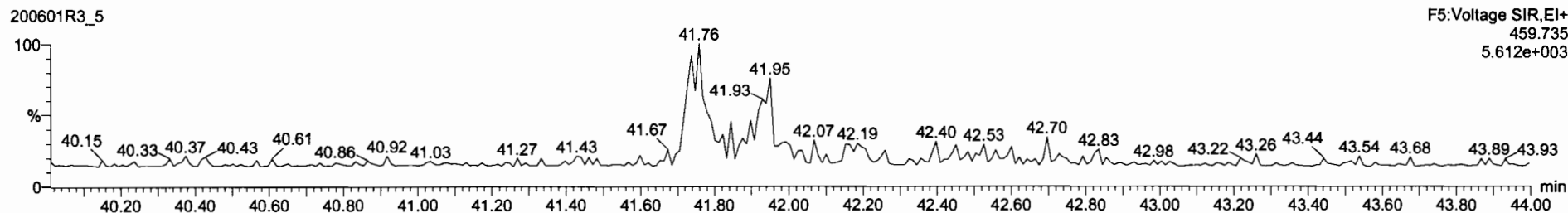
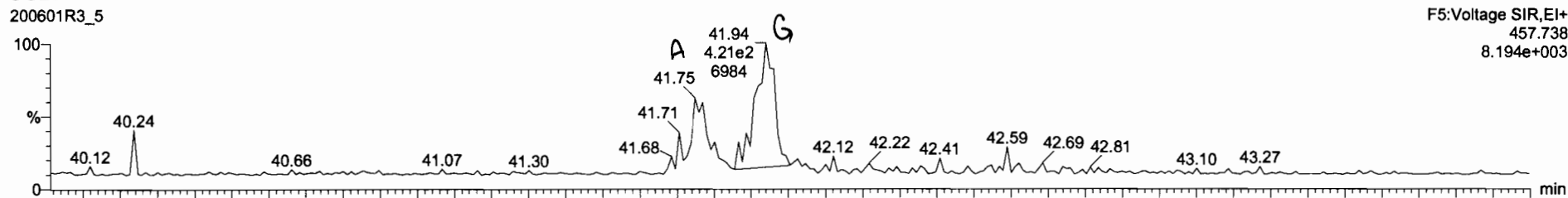


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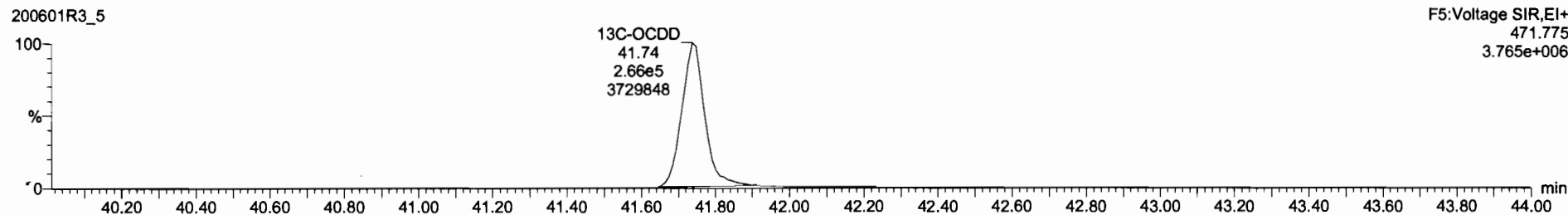
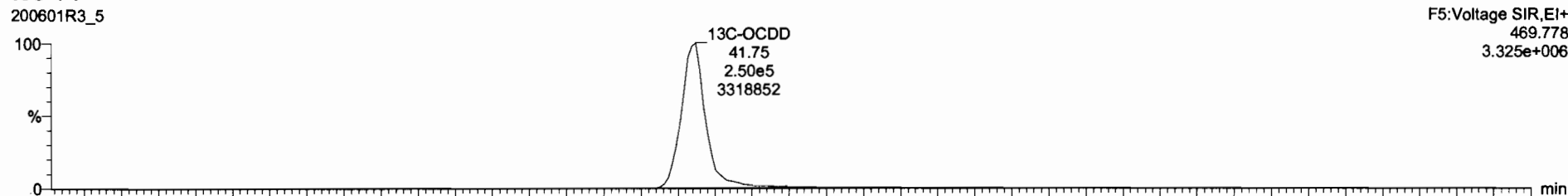
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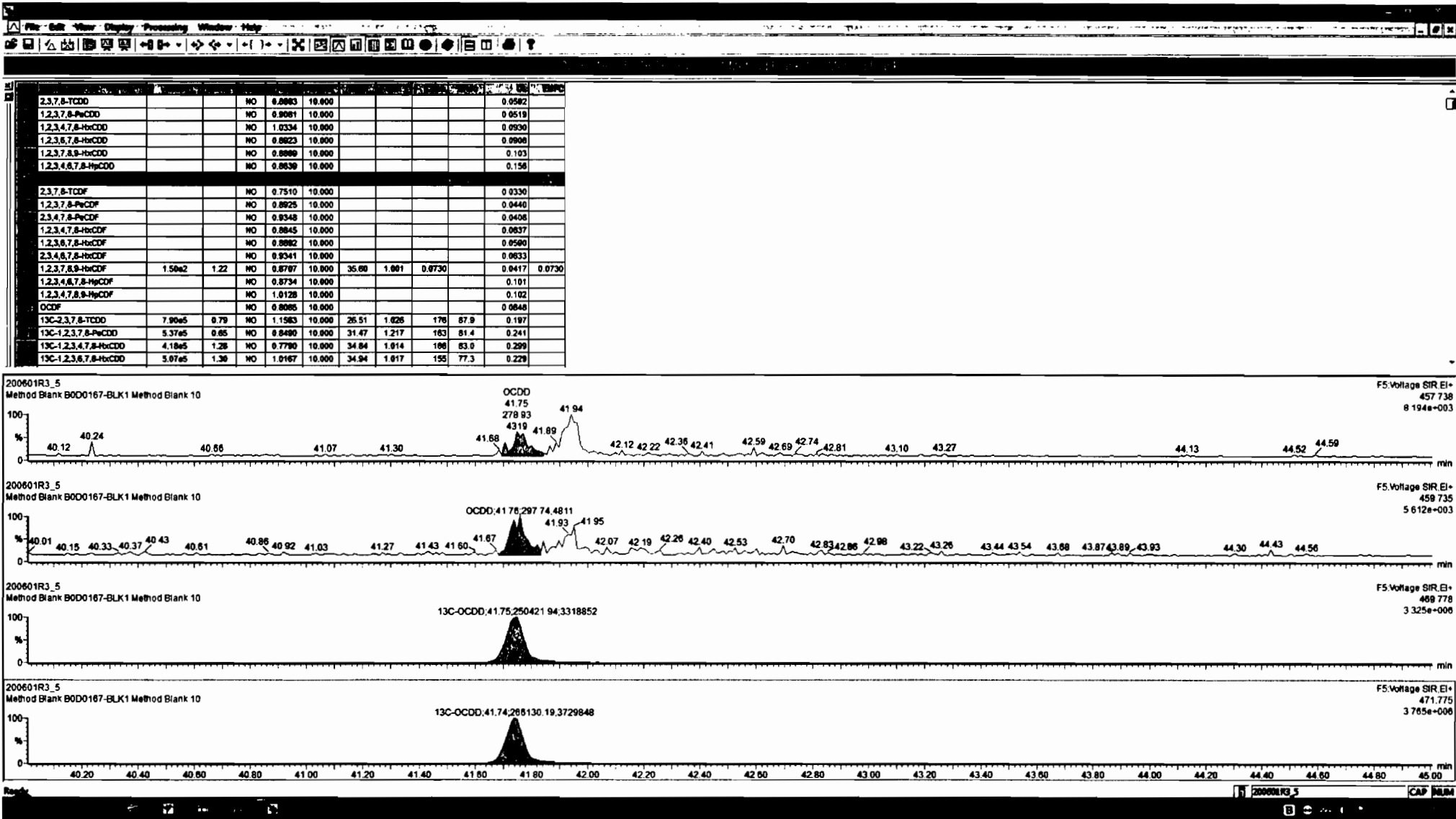
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OCDD



13C-OCDD



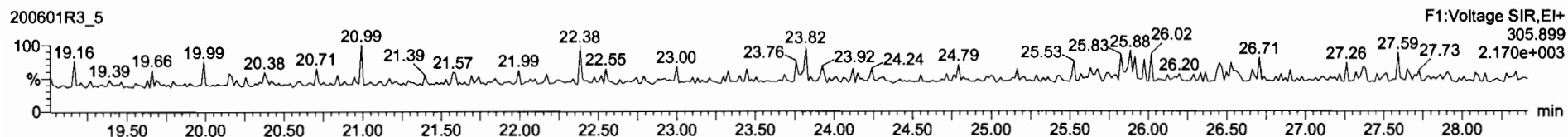
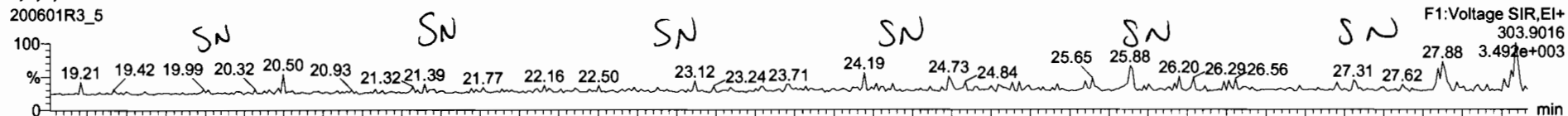


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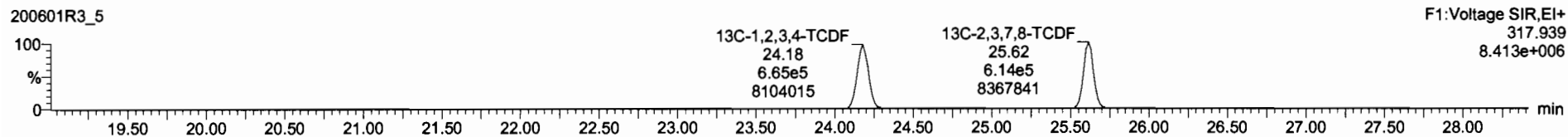
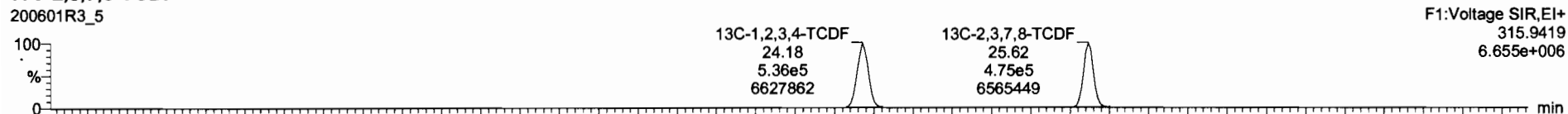
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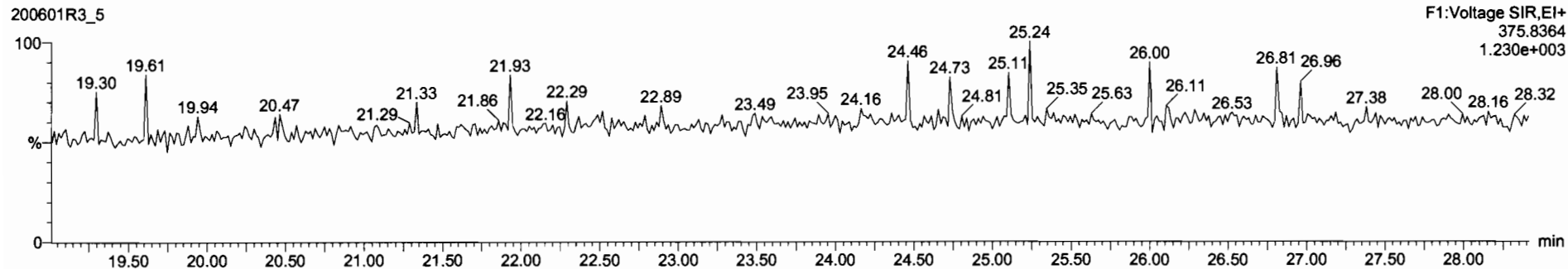
2,3,7,8-TCDF



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



DPE1



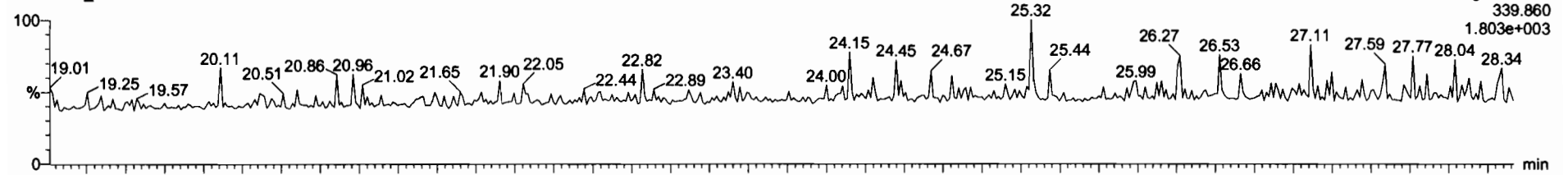
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

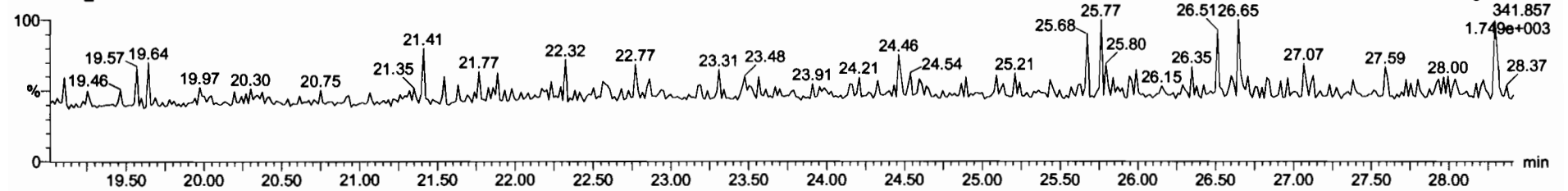
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1st Func. Penta-Furans

200601R3_5

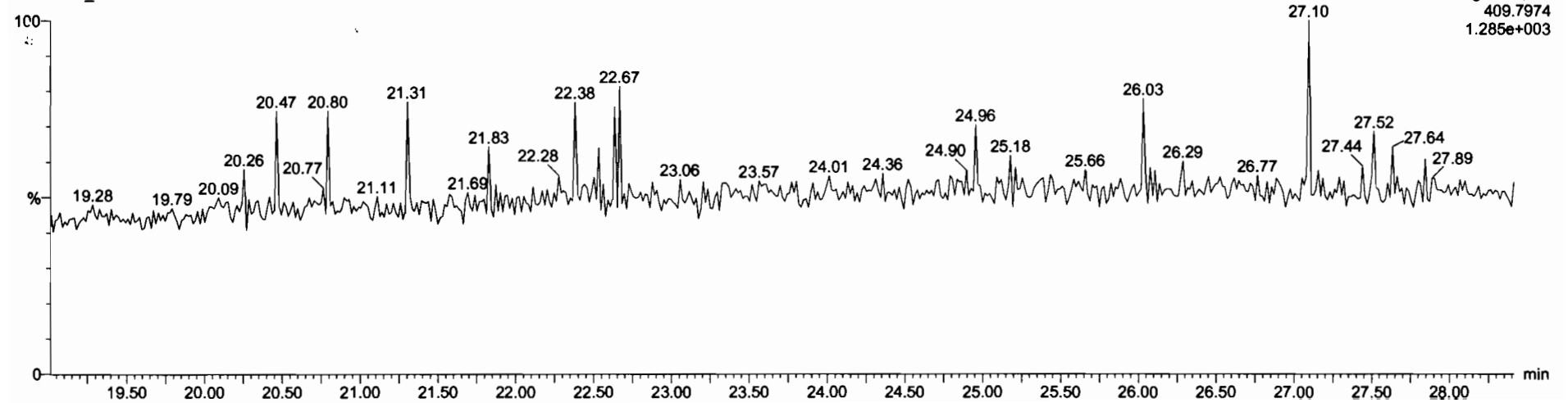


200601R3_5



DPE6

200601R3_5

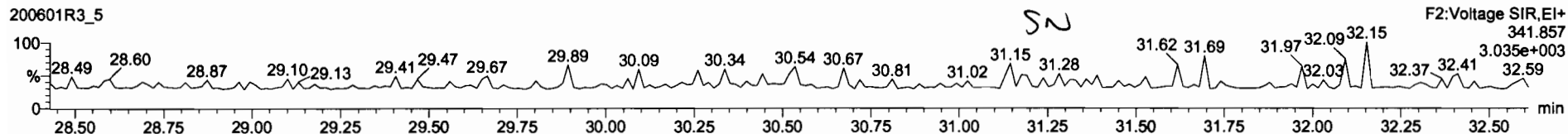
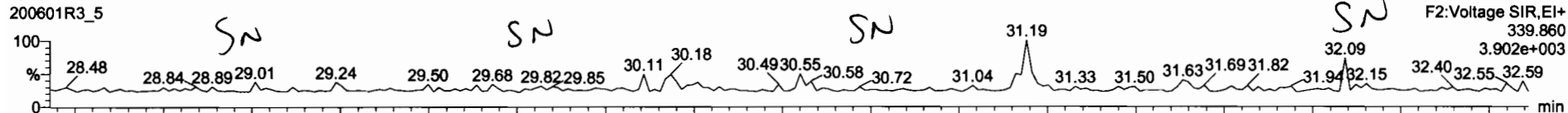


Dataset: Untitled

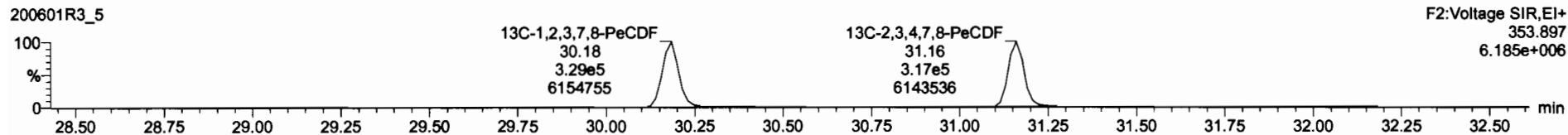
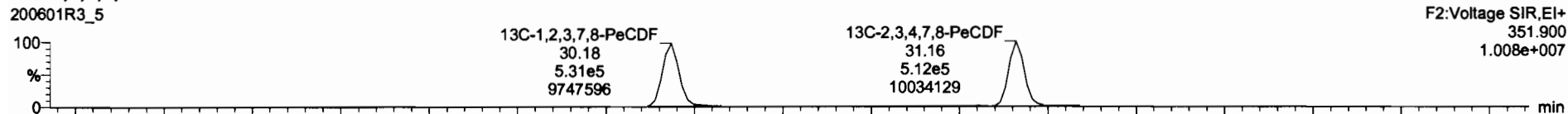
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

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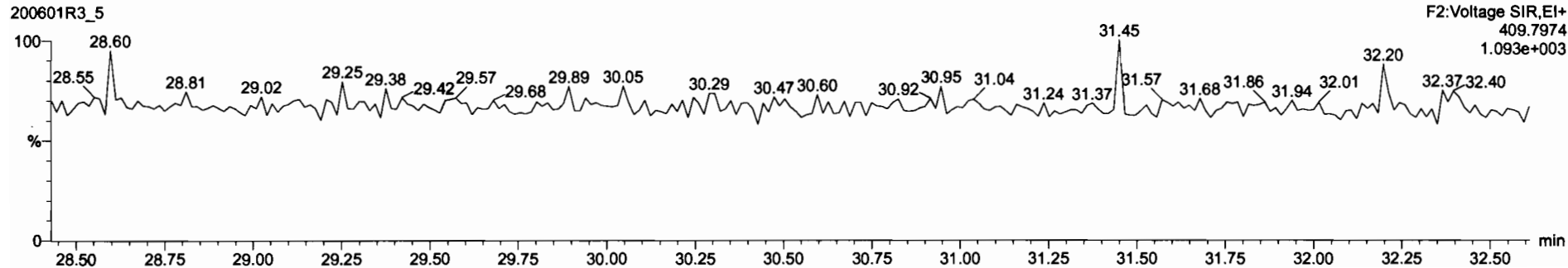
1,2,3,7,8-PeCDF



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



DPE2

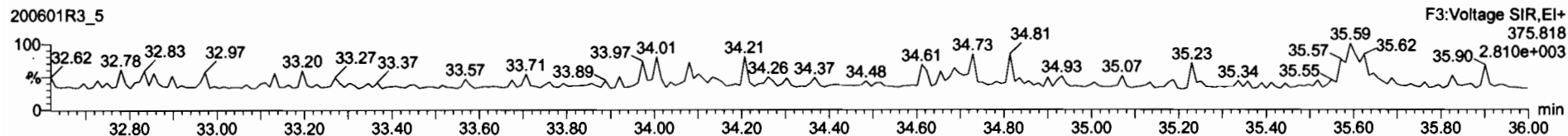
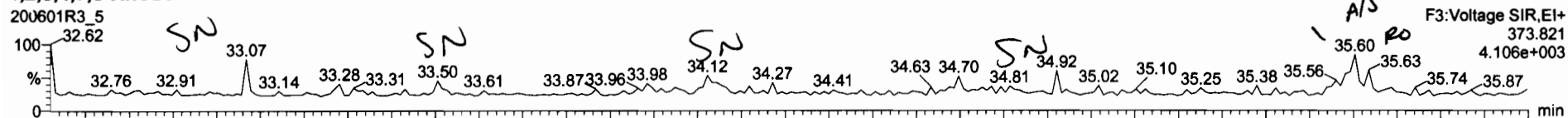


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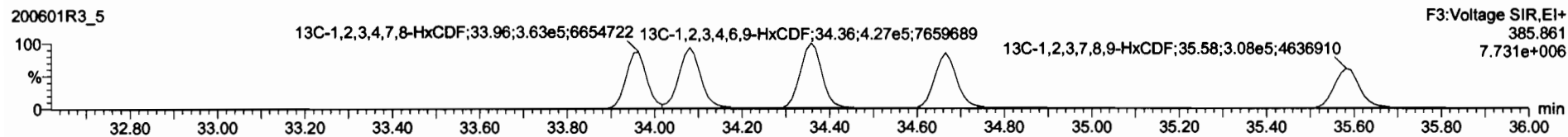
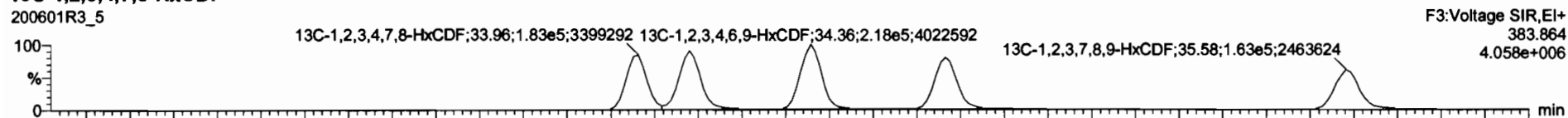
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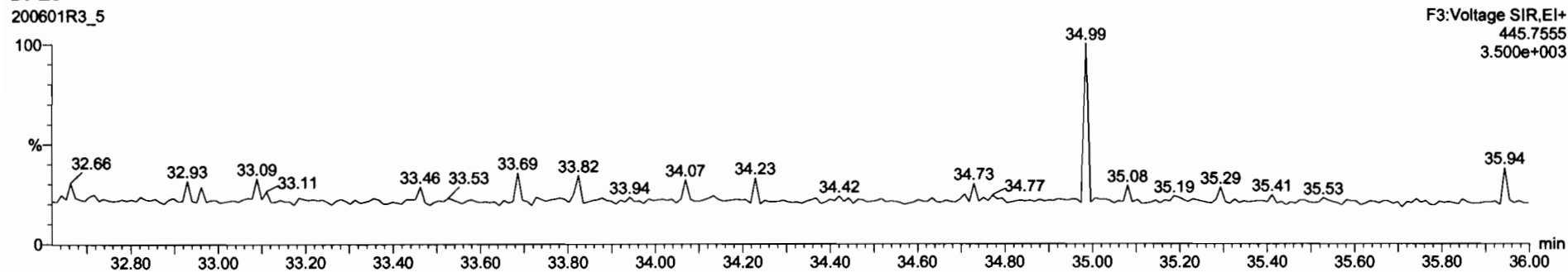
1,2,3,4,7,8-HxCDF



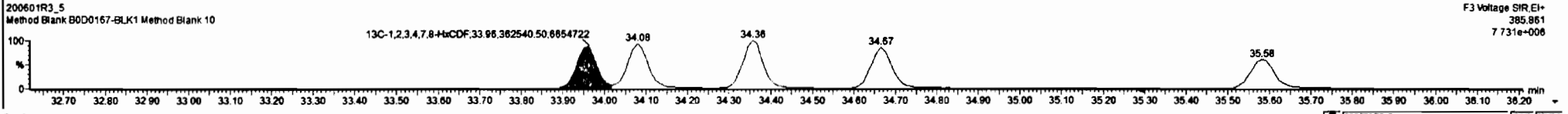
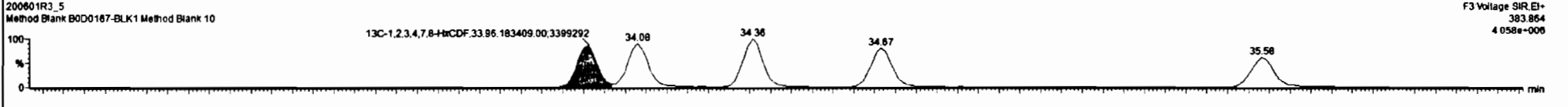
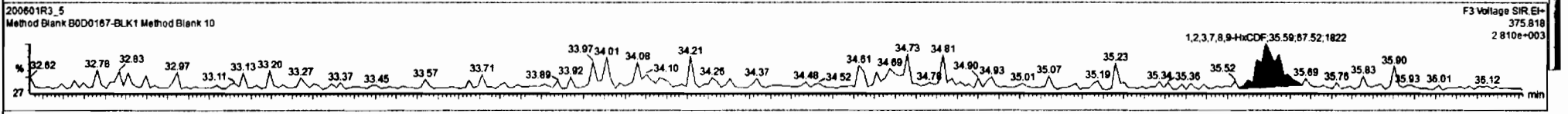
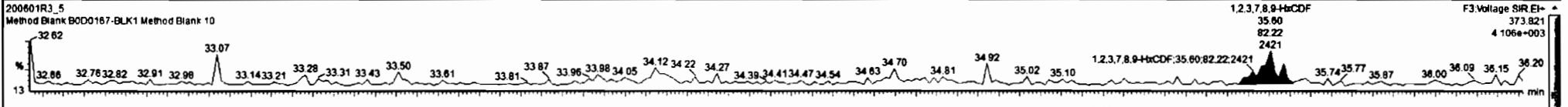
13C-1,2,3,4,7,8-HxCDF



DPE3



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Total Tetra-Dioxins				0.8883	10.000					0.6301
Total Penta-Dioxins				0.9081	10.000					0.6229
Total Hexa-Dioxins				0.8823	10.000					0.6455
Total Hepta-Dioxins				0.8839	10.000					0.6862
Total Tetra-Furans				0.7510	10.000					0.6189
1st Func. Penta-Furans				0.8825	10.000					0.0793
Total Penta-Furans				0.8825	10.000					0.0199
Total Hepta-Furans				0.8734	10.000					0.0531
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



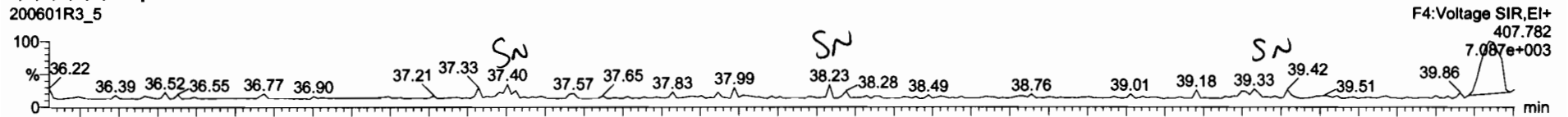
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

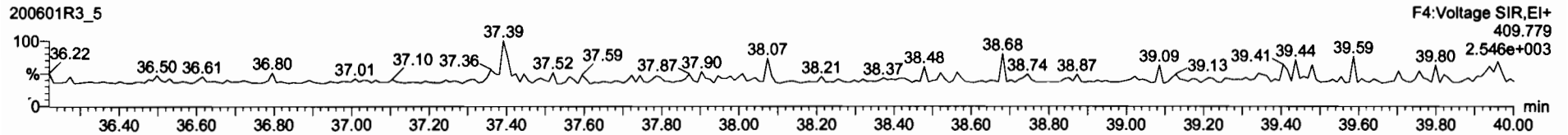
Name: 200601R3_5, Date: 01-Jun-2020, Time: 18:10:21, ID: B0D0167-BLK1 Method Blank 10, Description: Method Blank

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

200601R3_5

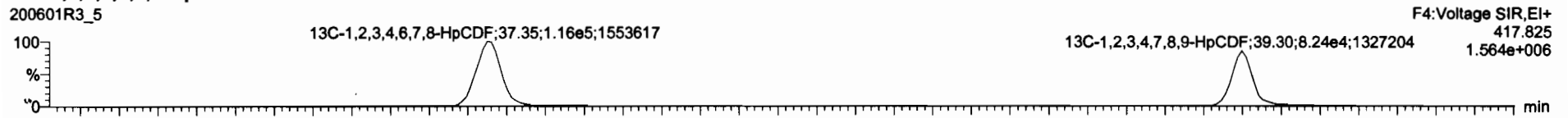


200601R3_5

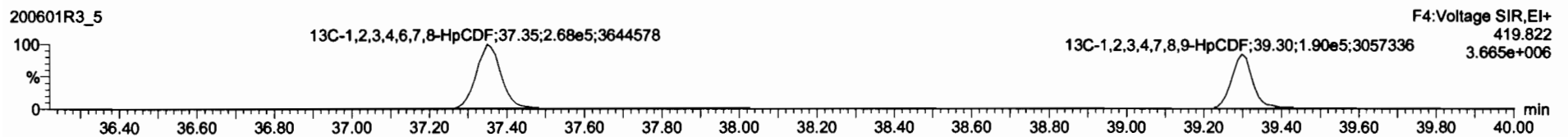


13C-1,2,3,4,6,7,8-HpCDF

200601R3_5

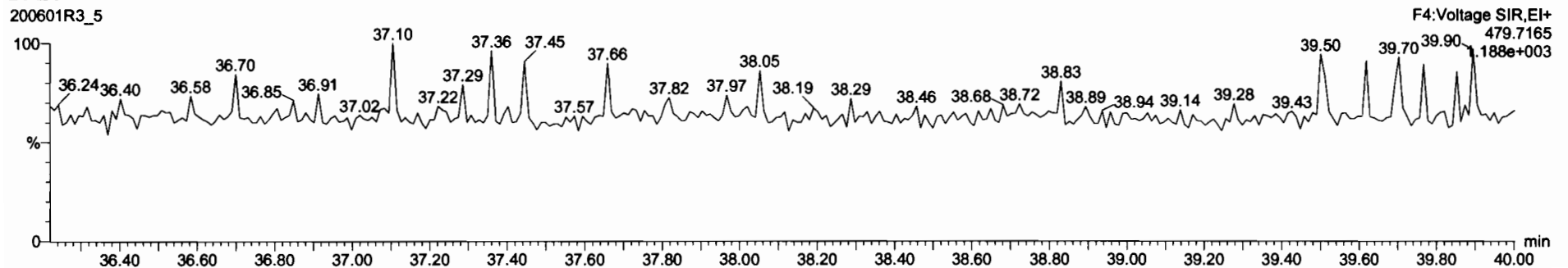


200601R3_5



DPE4

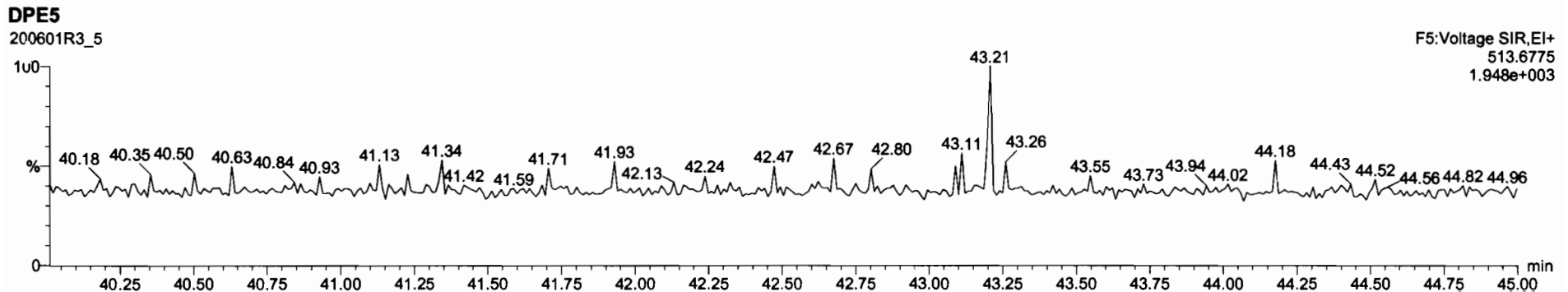
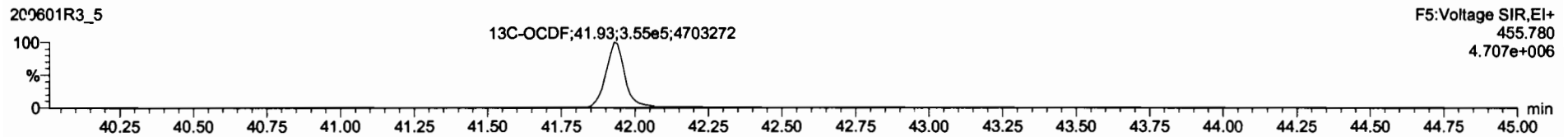
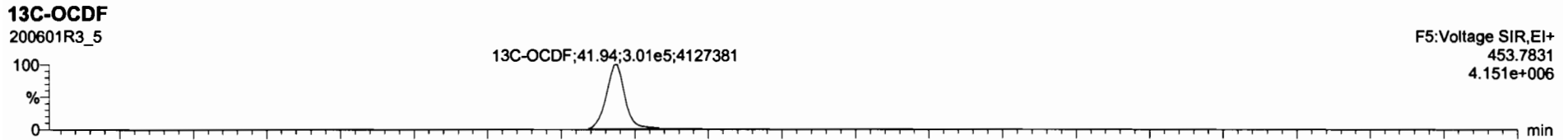
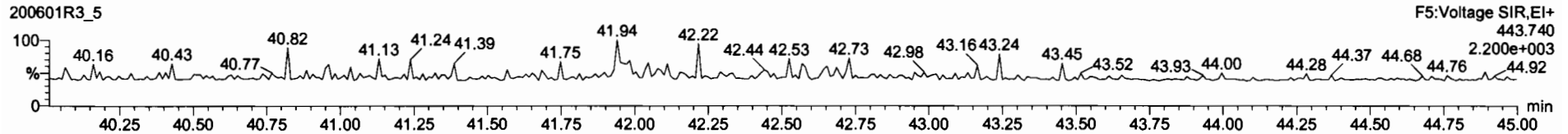
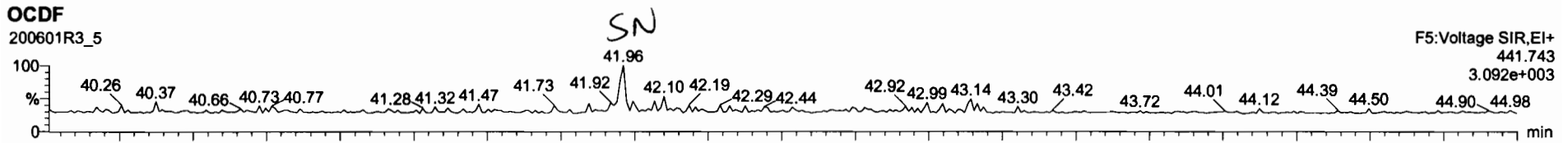
200601R3_5



Dataset: Untitled

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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

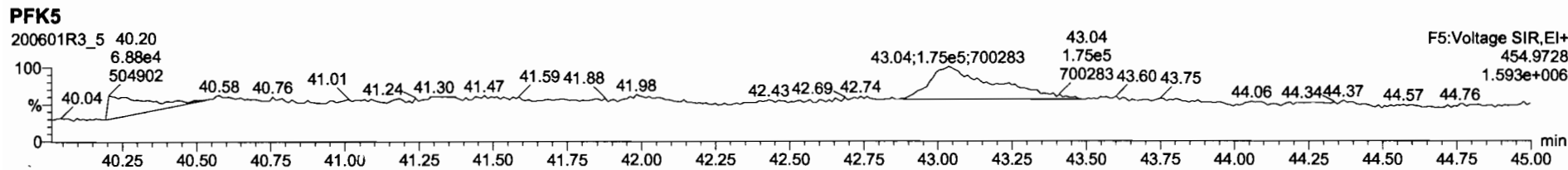
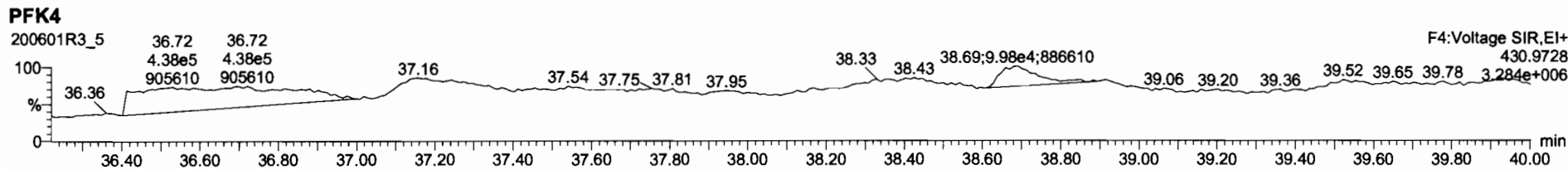
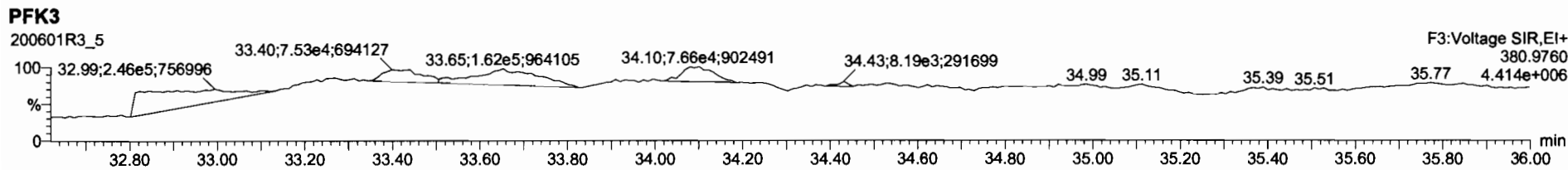
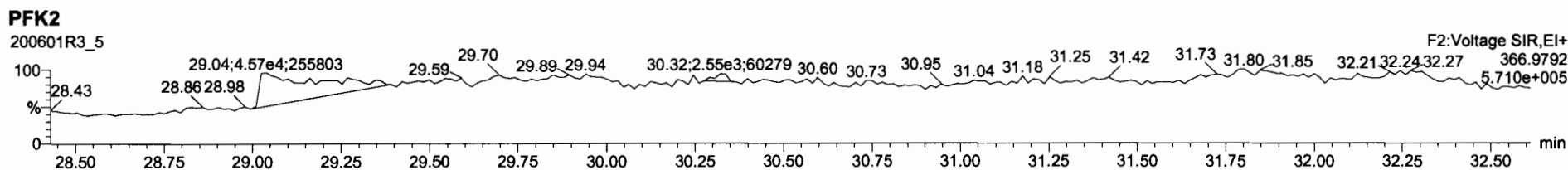
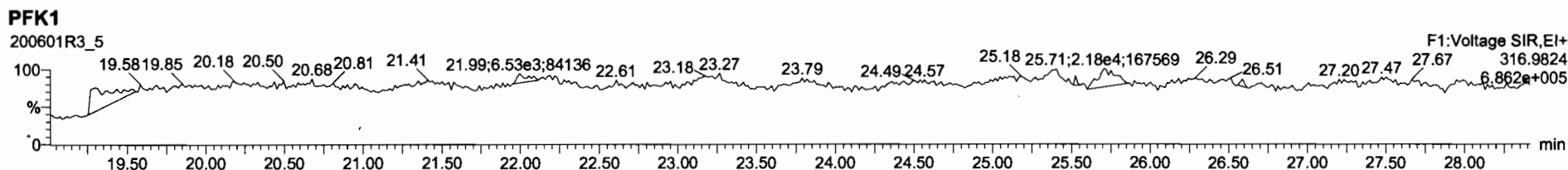
Name: 200601R3_5, Date: 01-Jun-2020, Time: 18:10:21, ID: B0D0167-BLK1 Method Blank 10, Description: Method Blank



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_5, Date: 01-Jun-2020, Time: 18:10:21, ID: B0D0167-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200602R1\200602R1-2.qld

Last Altered: Tuesday, June 02, 2020 10:40:59 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 10:41:26 AM Pacific Daylight Time

GPB 06/02/2020

CT 06/05/2020

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: 200602R1_2, Date: 02-Jun-2020, Time: 09:19:25, ID: B0D0167-BS1 OPR 10, Description: OPR

1	2,3,7,8-TCDD	5.72e4	0.75	NO	0.888	10.000	26.560	26.54	1.001	1.001	18.199	0.120	18.2
2	1,2,3,7,8-PeCDD	2.47e5	0.63	NO	0.908	10.000	31.503	31.50	1.001	1.000	95.086	0.162	95.1
3	1,2,3,4,7,8-HxCDD	2.20e5	1.24	NO	1.03	10.000	34.857	34.86	1.000	1.000	96.823	0.206	96.8
4	1,2,3,6,7,8-HxCDD	2.38e5	1.24	NO	0.892	10.000	34.943	34.96	1.000	1.001	98.230	0.207	98.2
5	1,2,3,7,8,9-HxCDD	2.24e5	1.23	NO	0.887	10.000	35.241	35.24	1.000	1.000	98.518	0.219	98.5
6	1,2,3,4,6,7,8-HpCDD	1.60e5	1.03	NO	0.864	10.000	38.768	38.78	1.000	1.001	100.14	0.301	100
7	OCDD	2.63e5	0.88	NO	0.914	10.000	41.727	41.74	1.000	1.000	197.48	0.428	197
8	2,3,7,8-TCDF	6.14e4	0.74	NO	0.751	10.000	25.657	25.65	1.001	1.001	18.091	0.0907	18.1
9	1,2,3,7,8-PeCDF	3.60e5	1.58	NO	0.893	10.000	30.220	30.22	1.001	1.001	96.189	0.180	96.2
10	2,3,4,7,8-PeCDF	3.60e5	1.56	NO	0.935	10.000	31.207	31.19	1.001	1.000	96.375	0.168	96.4
11	1,2,3,4,7,8-HxCDF	2.32e5	1.21	NO	0.884	10.000	33.963	33.98	1.000	1.001	98.806	0.330	98.8
12	1,2,3,6,7,8-HxCDF	2.65e5	1.21	NO	0.889	10.000	34.101	34.10	1.000	1.000	96.028	0.311	96.0
13	2,3,4,6,7,8-HxCDF	2.69e5	1.20	NO	0.934	10.000	34.711	34.69	1.001	1.000	98.957	0.307	99.0
14	1,2,3,7,8,9-HxCDF	1.99e5	1.17	NO	0.871	10.000	35.592	35.60	1.000	1.000	97.284	0.486	97.3
15	1,2,3,4,6,7,8-HpCDF	1.77e5	0.99	NO	0.873	10.000	37.397	37.37	1.001	1.000	96.151	0.370	96.2
16	1,2,3,4,7,8,9-HpCDF	1.43e5	1.00	NO	1.01	10.000	39.299	39.32	1.000	1.001	100.58	0.414	101
17	OCDF	2.90e5	0.87	NO	0.806	10.000	41.929	41.94	1.000	1.000	196.48	0.299	196
18	13C-2,3,7,8-TCDD	7.07e5	0.79	NO	1.16	10.000	26.553	26.53	1.026	1.025	129.64	64.8	0.178
19	13C-1,2,3,7,8-PeCDD	5.71e5	0.64	NO	0.849	10.000	31.748	31.48	1.227	1.217	142.67	71.3	0.201
20	13C-1,2,3,4,7,8-HxCDD	4.39e5	1.27	NO	0.779	10.000	34.853	34.85	1.014	1.014	157.28	78.6	0.351
21	13C-1,2,3,6,7,8-HxCDD	5.43e5	1.28	NO	1.02	10.000	34.966	34.94	1.017	1.017	148.82	74.4	0.269
22	13C-1,2,3,7,8,9-HxCDD	5.13e5	1.27	NO	0.903	10.000	35.238	35.23	1.025	1.025	158.52	79.3	0.303
23	13C-1,2,3,4,6,7,8-HpCDD	3.70e5	1.03	NO	0.689	10.000	38.764	38.76	1.128	1.128	149.48	74.7	0.313
24	13C-OCDD	5.83e5	0.91	NO	0.652	10.000	41.788	41.73	1.216	1.214	249.14	62.3	0.430
25	13C-2,3,7,8-TCDF	9.04e5	0.78	NO	1.06	10.000	25.593	25.63	0.989	0.991	122.90	61.5	0.279
26	13C-1,2,3,7,8-PeCDF	8.38e5	1.58	NO	0.838	10.000	30.128	30.20	1.165	1.167	143.95	72.0	0.301
27	13C-2,3,4,7,8-PeCDF	8.00e5	1.61	NO	0.817	10.000	31.083	31.18	1.202	1.205	140.97	70.5	0.309
28	13C-1,2,3,4,7,8-HxCDF	5.30e5	0.49	NO	1.01	10.000	33.983	33.96	0.989	0.988	146.78	73.4	0.601
29	13C-1,2,3,6,7,8-HxCDF	6.20e5	0.50	NO	1.17	10.000	34.107	34.09	0.992	0.992	148.10	74.1	0.519
30	13C-2,3,4,6,7,8-HxCDF	5.82e5	0.51	NO	1.02	10.000	34.681	34.68	1.009	1.009	158.72	79.4	0.592
31	13C-1,2,3,7,8,9-HxCDF	4.71e5	0.52	NO	0.860	10.000	35.581	35.59	1.035	1.036	152.67	76.3	0.704

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-2.qld

Last Altered: Tuesday, June 02, 2020 10:40:59 AM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 10:41:26 AM Pacific Daylight Time

Name: 200602R1_2, Date: 02-Jun-2020, Time: 09:19:25, ID: B0D0167-BS1 OPR 10, Description: OPR

32	13C-1,2,3,4,6,7,8-HpCDF	4.21e5	0.41	NO	0.774	10.000	37.331	37.36	1.086	1.087	151.66	75.8	0.323
33	13C-1,2,3,4,7,8,9-HpCDF	2.80e5	0.43	NO	0.521	10.000	39.362	39.30	1.145	1.143	149.78	74.9	0.481
34	13C-OCDF	7.33e5	0.89	NO	0.746	10.000	41.960	41.93	1.221	1.220	274.16	68.5	0.431
35	37Cl-2,3,7,8-TCDD	2.76e5			1.04	10.000	26.584	26.54	1.028	1.026	56.427	70.5	0.0562
36	13C-1,2,3,4-TCDD	9.43e5	0.79	NO	1.00	10.000	25.890	25.87	1.000	1.000	200.00	100	0.205
37	13C-1,2,3,4-TCDF	1.39e6	0.79	NO	1.00	10.000	24.360	24.19	1.000	1.000	200.00	100	0.295
38	13C-1,2,3,4,6,9-HxCDF	7.17e5	0.50	NO	1.00	10.000	34.420	34.37	1.000	1.000	200.00	100	0.605

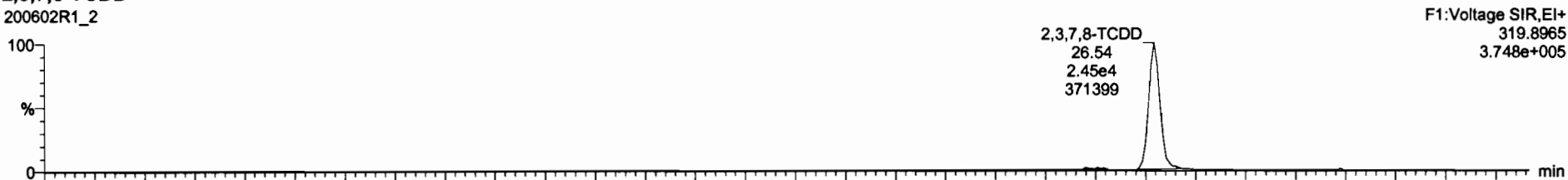
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Last Altered: Tuesday, June 02, 2020 10:05:40 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 10:07:21 Pacific Daylight Time

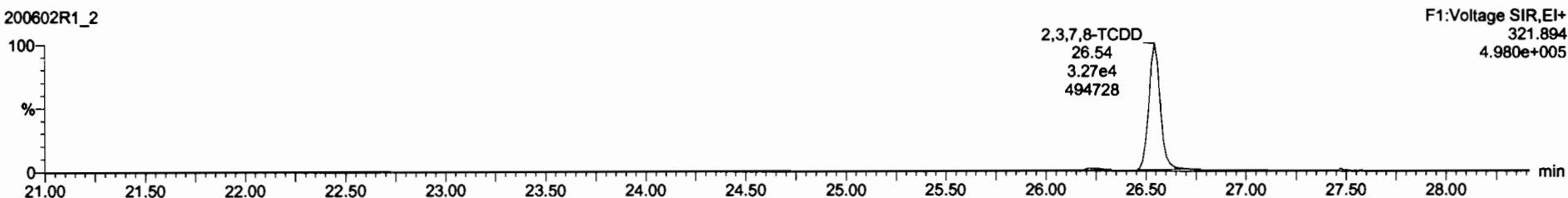
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200602R1_2, Date: 02-Jun-2020, Time: 09:19:25, ID: B0D0167-BS1 OPR 10, Description: OPR

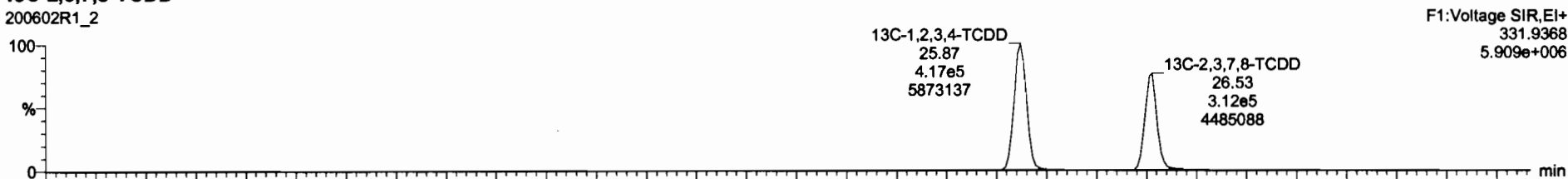
2,3,7,8-TCDD
200602R1_2



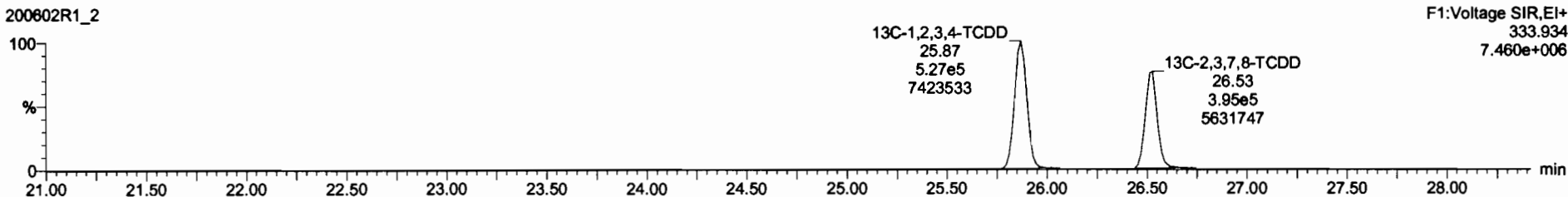
200602R1_2



13C-2,3,7,8-TCDD
200602R1_2



200602R1_2



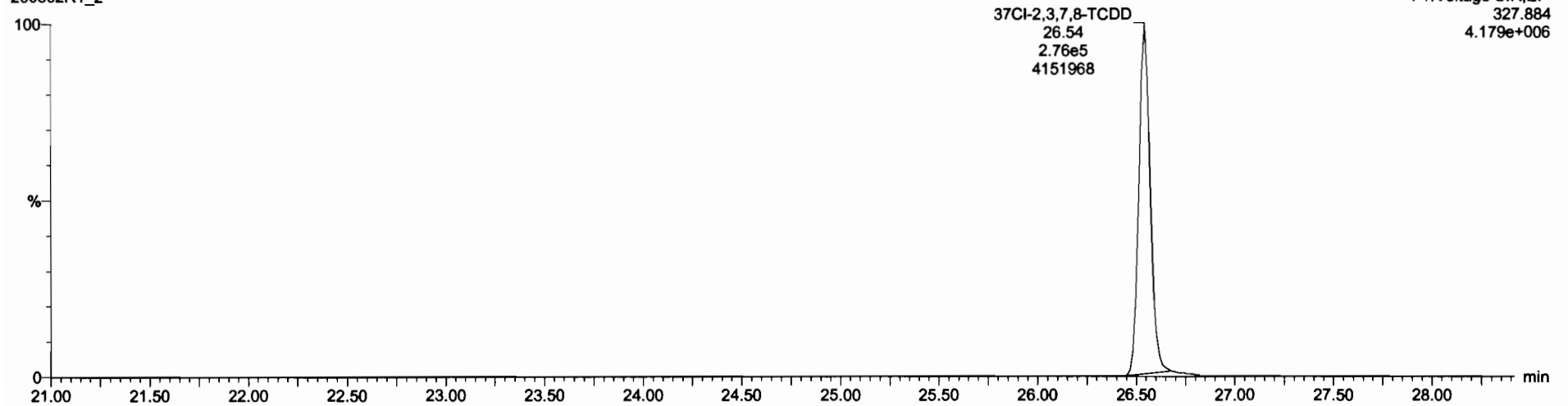
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Printed: Tuesday, June 02, 2020 10:07:21 Pacific Daylight Time

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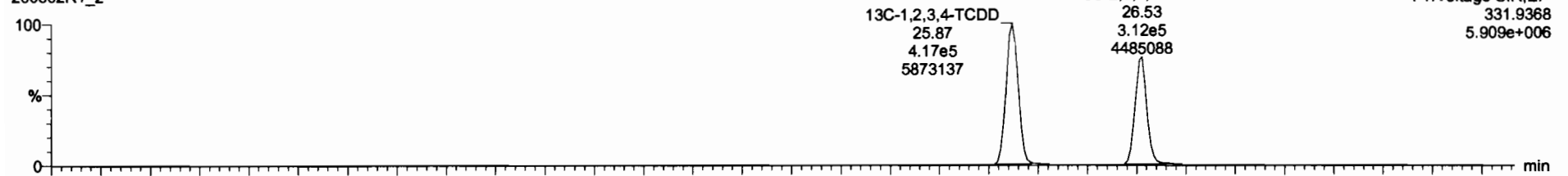
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200602R1_2

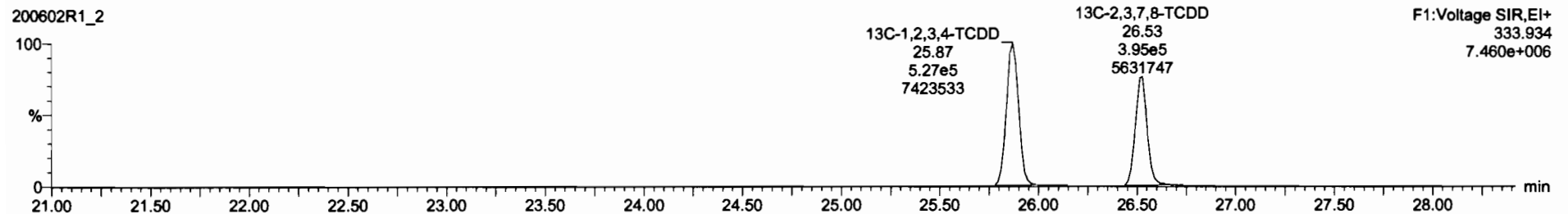


13C-1,2,3,4-TCDD

200602R1_2



200602R1_2



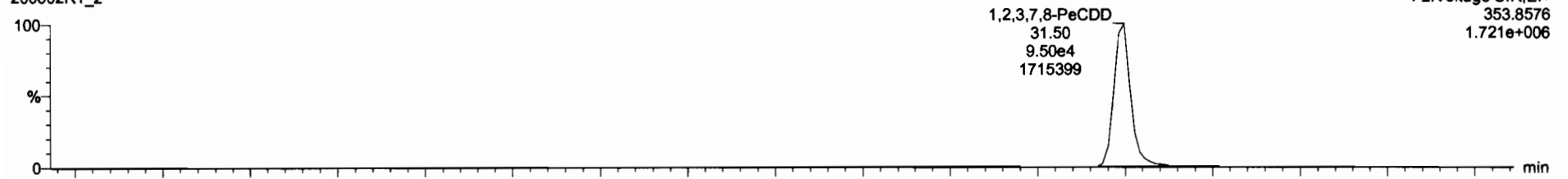
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Printed: Tuesday, June 02, 2020 10:07:21 Pacific Daylight Time

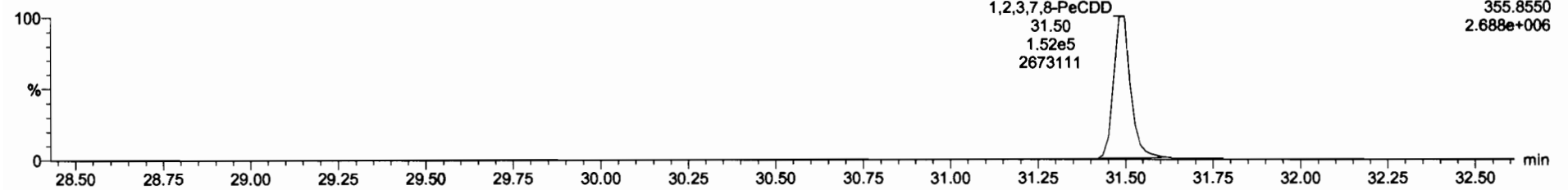
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1,2,3,7,8-PeCDD

200602R1_2

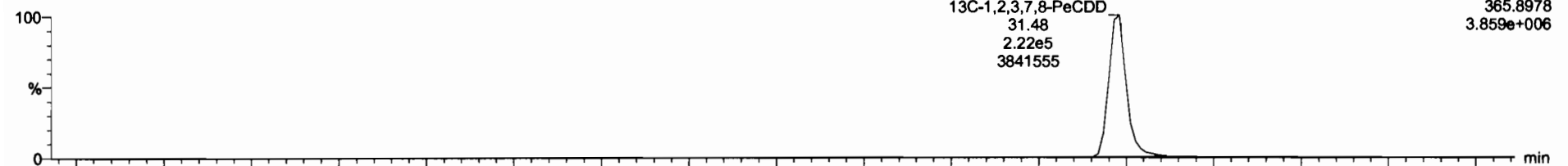


200602R1_2

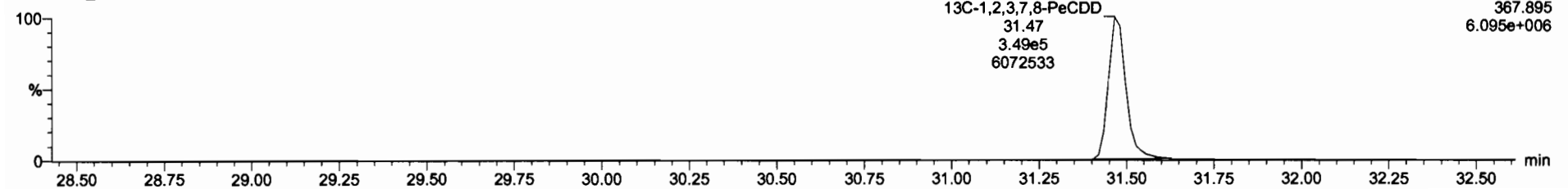


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200602R1_2



200602R1_2



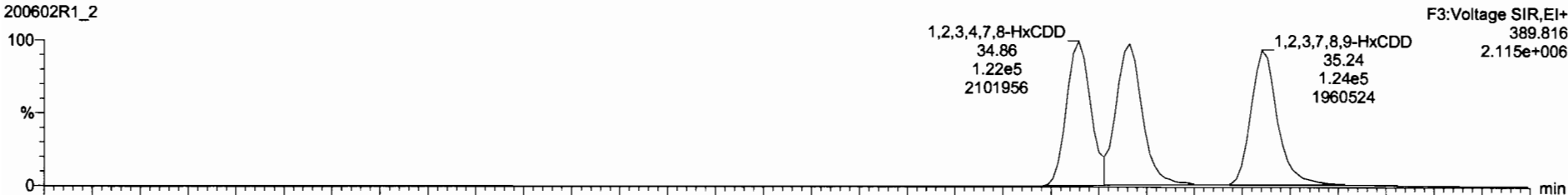
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Last Altered: Tuesday, June 02, 2020 10:05:40 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 10:07:21 Pacific Daylight Time

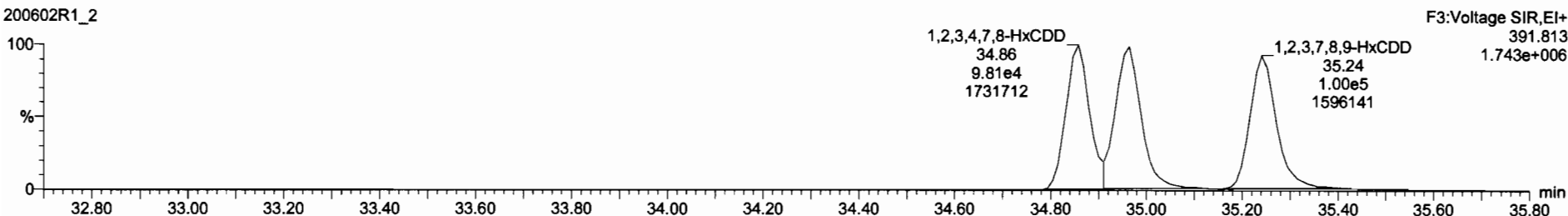
Name: 200602R1_2, Date: 02-Jun-2020, Time: 09:19:25, ID: B0D0167-BS1 OPR 10, Description: OPR

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

200602R1_2

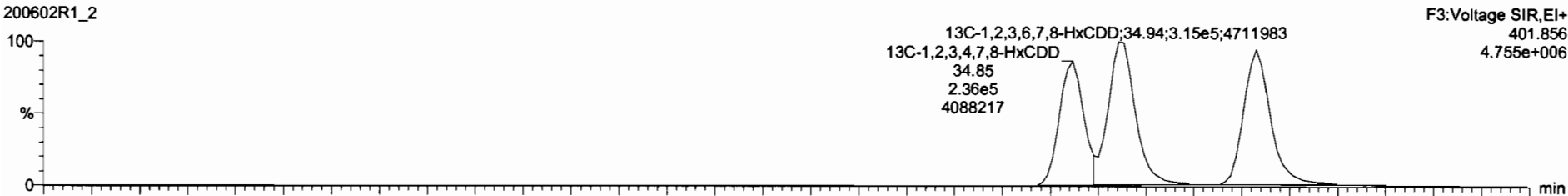


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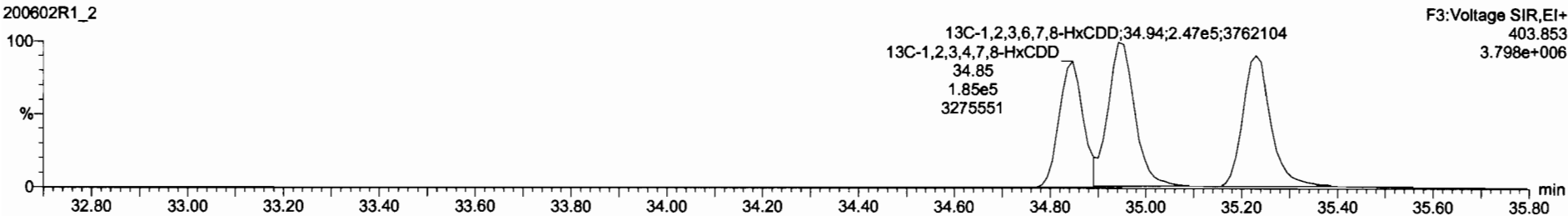


13C-1,2,3,4,7,8-HxCDD

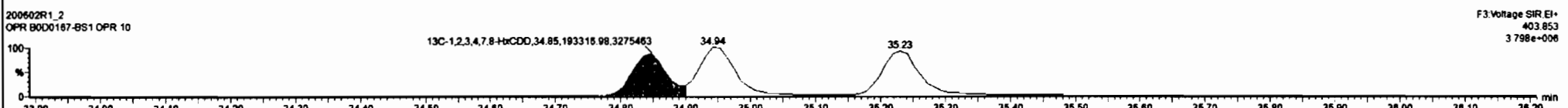
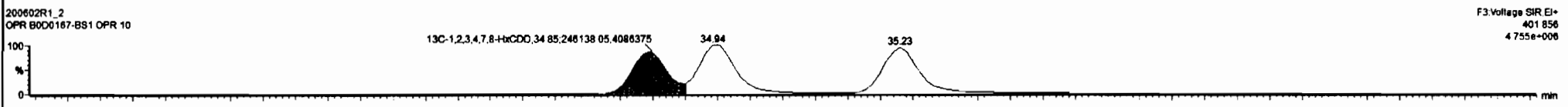
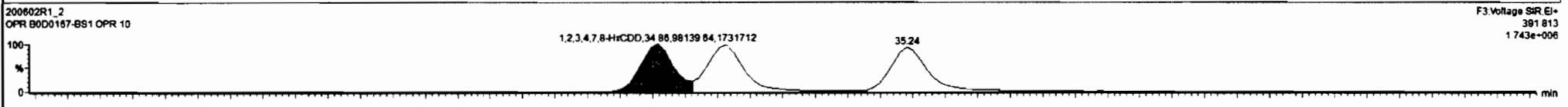
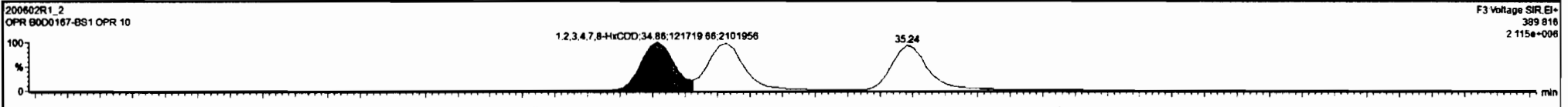
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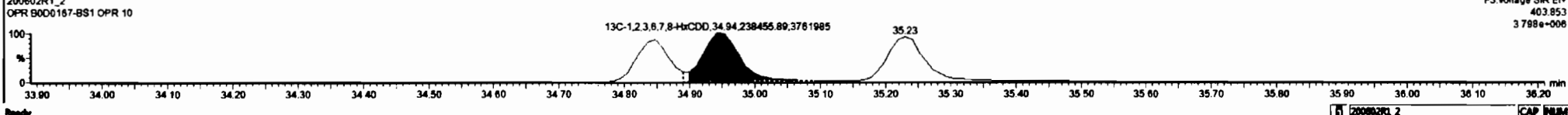
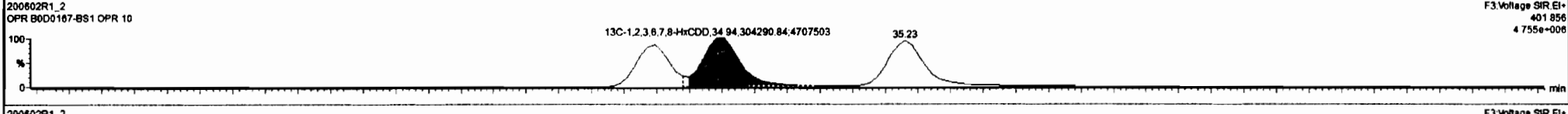
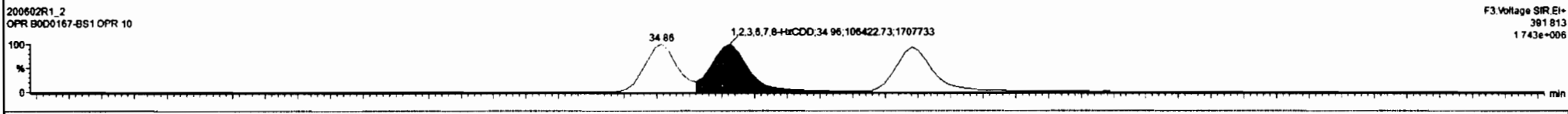
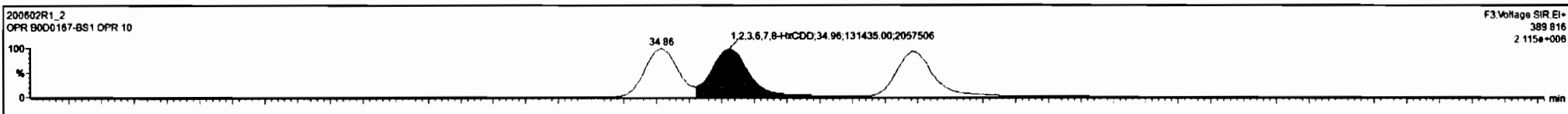
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1,2,3,7,8-PeCDD	2.47e5	0.83	NO	0.9061	10.000	31.56	1.000	85.1		0.162	85.1
1,2,3,6,7,8-HxCDD	2.38e5	1.24	NO	0.8823	10.000	34.98	1.001	86.2		0.207	86.2
1,2,3,7,8,9-HxCDD	2.24e5	1.23	NO	0.8880	10.000	35.24	1.000	86.5		0.219	86.5
1,2,3,4,6,7,8-HpCDD	1.80e5	1.03	NO	0.8630	10.000	38.78	1.000	100		0.301	100
OCDD	2.63e5	0.88	NO	0.9136	10.000	41.74	1.000	197		0.428	197
2,3,7,8-TCDF	6.14e4	0.74	NO	0.7510	10.000	25.65	1.001	18.1		0.0907	18.1
1,2,3,7,8-PeCDF	3.80e5	1.58	NO	0.8825	10.000	30.22	1.000	86.2		0.180	86.2
2,3,4,7,8-PeCDF	3.90e5	1.57	NO	0.9348	10.000	31.19	1.000	86.4		0.188	86.4
1,2,3,4,7,8-HxCDF	2.32e5	1.21	NO	0.8845	10.000	33.98	1.001	88.8		0.330	88.8
1,2,3,6,7,8-HxCDF	2.85e5	1.22	NO	0.8882	10.000	34.10	1.000	86.0		0.311	86.0
2,3,4,6,7,8-HxCDF	2.69e5	1.20	NO	0.9341	10.000	34.89	1.000	89.0		0.307	89.0
1,2,3,7,8,9-HxCDF	1.99e5	1.17	NO	0.8797	10.000	35.60	1.000	97.3		0.486	97.3
1,2,3,4,6,7,8-HpCDF	1.77e5	0.99	NO	0.8734	10.000	37.37	1.000	98.2		0.370	98.2
1,2,3,4,7,8,9-HpCDF	1.43e5	1.00	NO	1.0128	10.000	38.32	1.000	101		0.414	101
OCDF	2.90e5	0.87	NO	0.8085	10.000	41.94	1.000	198		0.299	198
13C-2,3,7,8-TCDD	7.87e5	0.79	NO	1.1583	10.000	25.53	1.025	130	64.8	0.178	
13C-1,2,3,7,8-PeCDD	5.71e5	0.84	NO	0.8480	10.000	31.48	1.217	143	71.3	0.201	
13C-1,2,3,4,7,8-HxCDD	4.39e5	1.27	NO	0.7780	10.000	34.85	1.014	157	78.6	0.351	
13C-1,2,3,6,7,8-HxCDD	5.43e5	1.28	NO	1.0167	10.000	34.84	1.017	149	74.4	0.289	



2,3,7,8-TCDD	5.72e4	0.75	NO	0.0083	10.000	28.54	1.001	18.2		0.120	18.2
1,2,3,7,8-PeCDD	2.47e5	0.63	NO	0.0081	10.000	31.50	1.000	95.1		0.182	95.1
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1,2,3,7,8,9-HxCDD	2.24e5	1.23	NO	0.0089	10.000	35.24	1.000	98.5		0.219	98.5
1,2,3,4,6,7,8-HpCDD	1.80e5	1.03	NO	0.0639	10.000	36.78	1.000	100		0.301	100
OCDD	2.63e5	0.88	NO	0.9136	10.000	41.74	1.000	197		0.428	197
2,3,7,8-TCDF	6.14e4	0.74	NO	0.7510	10.000	25.65	1.001	18.1		0.0907	18.1
1,2,3,7,8-PeCDF	3.80e5	1.58	NO	0.0625	10.000	30.22	1.000	98.2		0.180	98.2
2,3,4,7,8-PeCDF	3.80e5	1.57	NO	0.9348	10.000	31.19	1.000	98.4		0.188	98.4
1,2,3,4,7,8-HxCDF	2.32e5	1.21	NO	0.0845	10.000	33.08	1.001	98.8		0.330	98.8
1,2,3,6,7,8-HxCDF	2.85e5	1.22	NO	0.0892	10.000	34.10	1.000	98.0		0.311	98.0
2,3,4,6,7,8-HxCDF	2.89e5	1.20	NO	0.9341	10.000	34.89	1.000	99.0		0.307	99.0
1,2,3,7,8,9-HxCDF	1.98e5	1.17	NO	0.0707	10.000	35.80	1.000	97.3		0.486	97.3
1,2,3,4,6,8-HpCDF	1.77e5	0.99	NO	0.0734	10.000	37.37	1.000	98.2		0.370	98.2
1,2,3,4,7,8,9-HpCDF	1.43e5	1.00	NO	1.0128	10.000	38.32	1.000	101		0.414	101
OCDF	2.90e5	0.87	NO	0.0085	10.000	41.94	1.000	196		0.299	196
13C-2,3,7,8-TCDD	7.07e5	0.79	NO	1.1583	10.000	26.53	1.025	130	64.8	0.178	
13C-1,2,3,7,8-PeCDD	5.71e5	0.64	NO	0.8480	10.000	31.48	1.217	143	71.3	0.201	
13C-1,2,3,4,7,8-HxCDD	4.38e5	1.27	NO	0.7790	10.000	34.85	1.014	157	78.6	0.351	
13C-1,2,3,6,7,8-HxCDD	5.43e5	1.28	NO	1.0187	10.000	34.94	1.017	149	74.4	0.289	



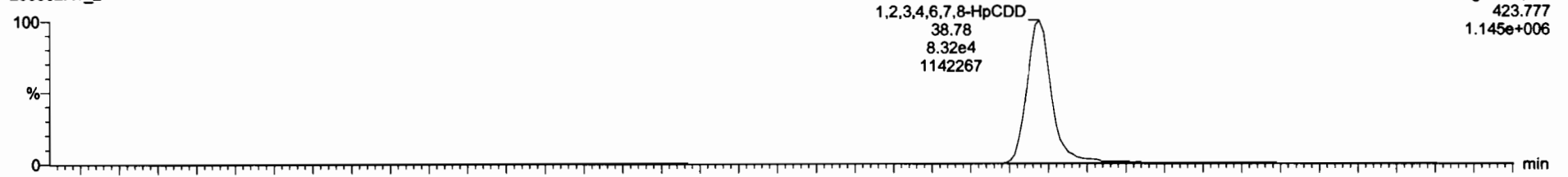
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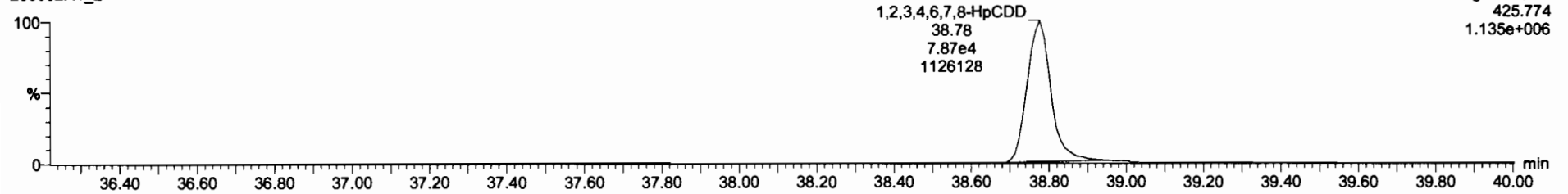
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1,2,3,4,6,7,8-HpCDD

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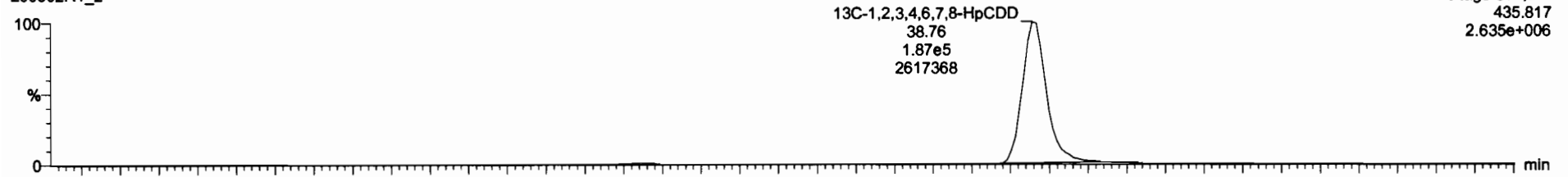


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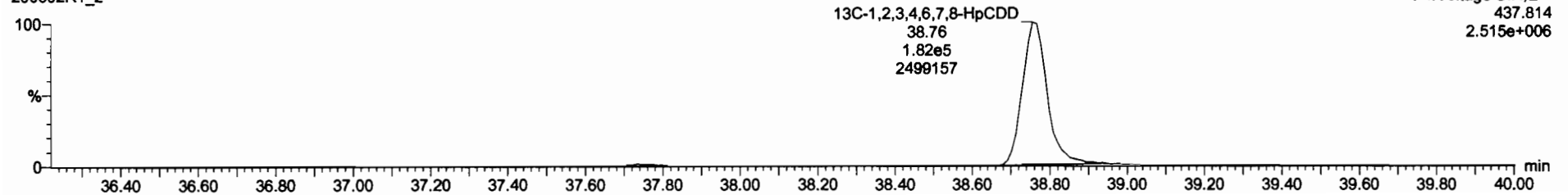


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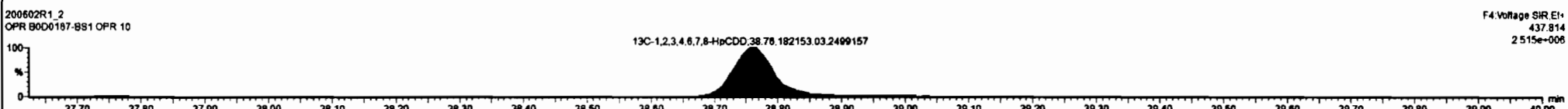
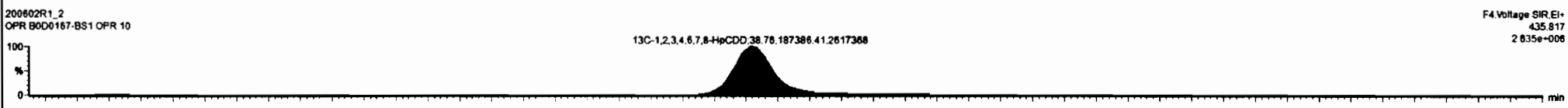
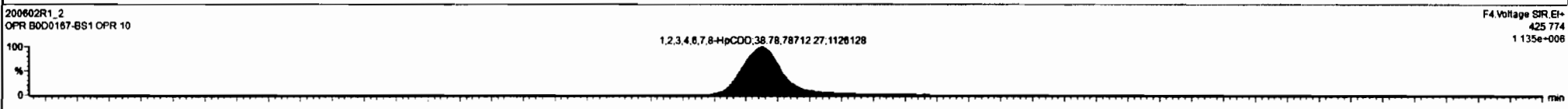
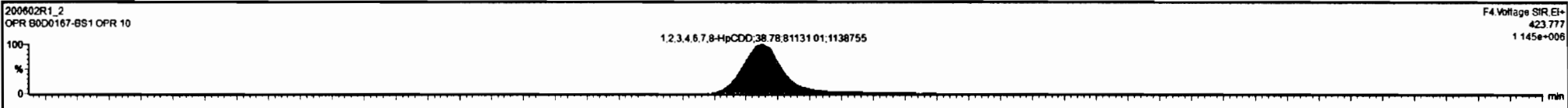
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200602R1_2



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1,2,3,7,8-PeCDD	2.47e5	0.83	NO	0.0081	10.000	31.50	1.000	95.1		0.162	95.1
1,2,3,4,7,8-HxCDD	2.20e5	1.24	NO	1.0334	10.000	34.86	1.000	96.8		0.206	96.8
1,2,3,6,7,8-HxCDD	2.38e5	1.24	NO	0.0023	10.000	34.98	1.001	98.2		0.207	98.2
1,2,3,7,8,9-HxCDD	2.24e5	1.23	NO	0.0090	10.000	35.24	1.000	98.5		0.219	98.5
OCDD	2.63e5	0.88	NO	0.0136	10.000	41.74	1.000	197		0.428	197
2,3,7,8-TCDF	6.14e4	0.74	NO	0.7510	10.000	25.85	1.001	18.1		0.0907	18.1
1,2,3,7,8-PeCDF	3.80e5	1.58	NO	0.0025	10.000	30.22	1.000	98.2		0.180	98.2
2,3,4,7,8-PeCDF	3.80e5	1.57	NO	0.0048	10.000	31.19	1.000	98.4		0.188	98.4
1,2,3,4,7,8-HxCDF	2.32e5	1.21	NO	0.0045	10.000	33.96	1.001	98.8		0.330	98.8
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2,3,4,6,7,8-HxCDF	2.89e5	1.20	NO	0.0041	10.000	34.69	1.000	99.0		0.307	99.0
1,2,3,4,8,9-HxCDF	1.99e5	1.17	NO	0.0707	10.000	35.60	1.000	97.3		0.408	97.3
1,2,3,4,6,8,9-HxCDF	1.77e5	0.99	NO	0.0734	10.000	37.37	1.000	98.2		0.370	98.2
1,2,3,4,7,8,9-HpCDF	1.43e6	1.00	NO	1.0128	10.000	38.32	1.000	101		0.414	101
OCDF	2.90e5	0.87	NO	0.0085	10.000	41.94	1.000	196		0.299	196
13C-2,3,7,8-TCDD	7.87e5	0.79	NO	1.1583	10.000	25.53	1.025	130	64.8	0.178	
13C-1,2,3,7,8-PeCDD	5.71e5	0.84	NO	0.8490	10.000	31.48	1.217	143	71.3	0.201	
13C-1,2,3,4,7,8-HxCDD	4.39e5	1.27	NO	0.7790	10.000	34.85	1.014	157	78.6	0.351	
13C-1,2,3,6,7,8-HxCDD	5.43e5	1.28	NO	1.0167	10.000	34.94	1.017	149	74.4	0.299	



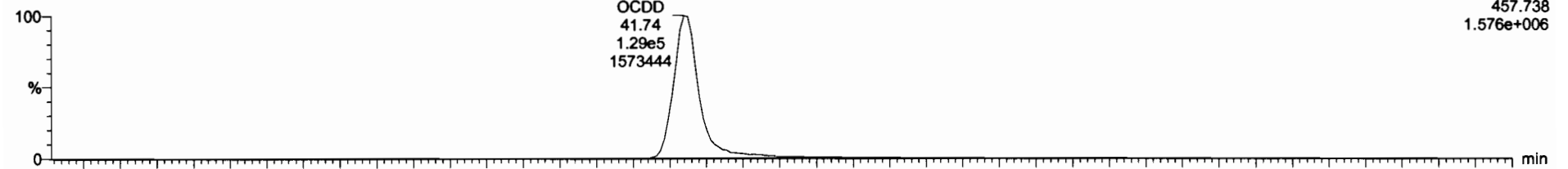
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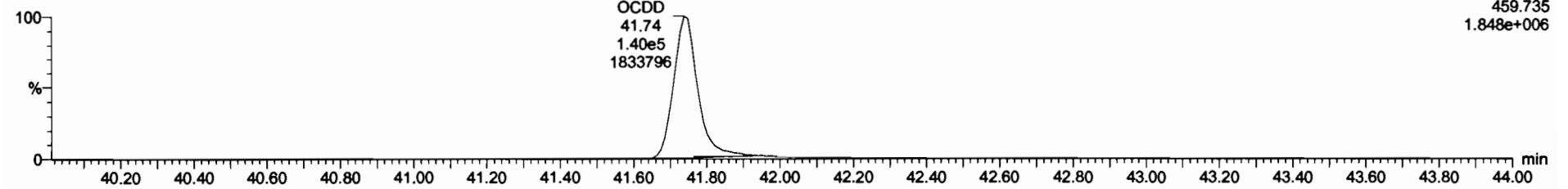
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OCDD

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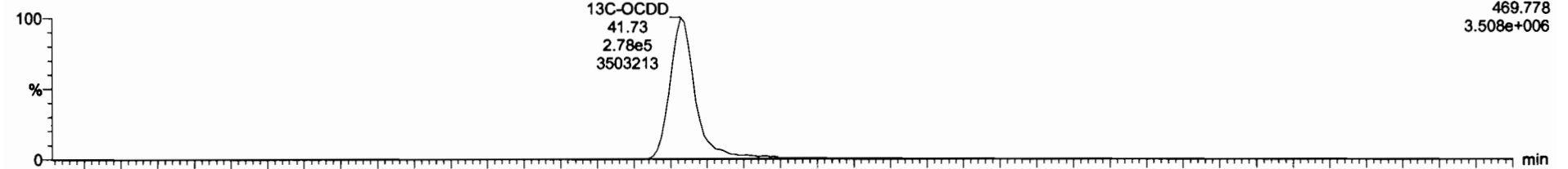


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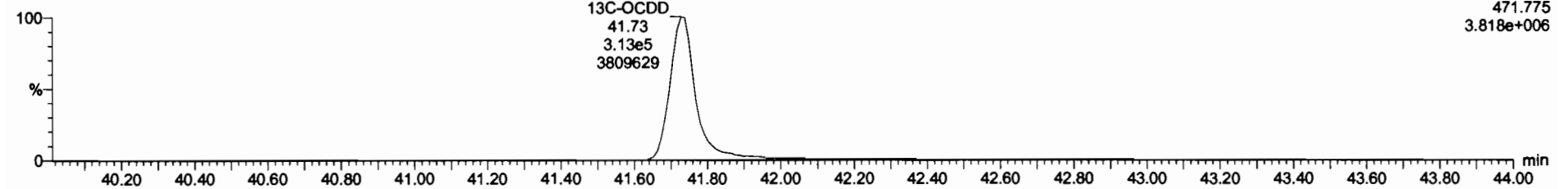


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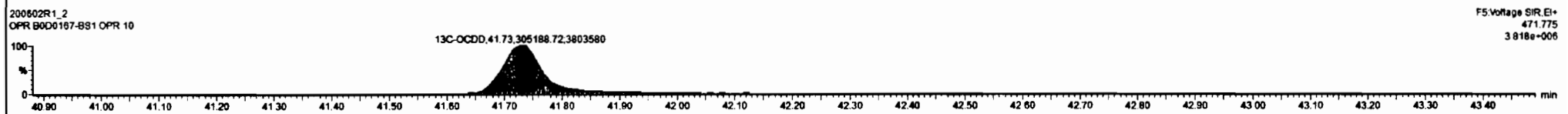
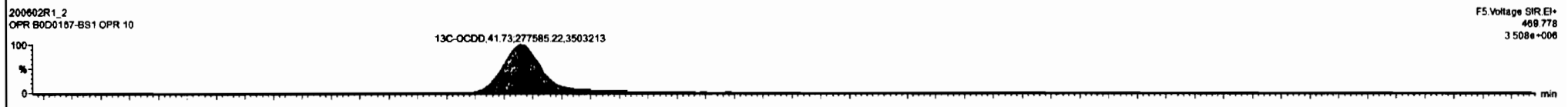
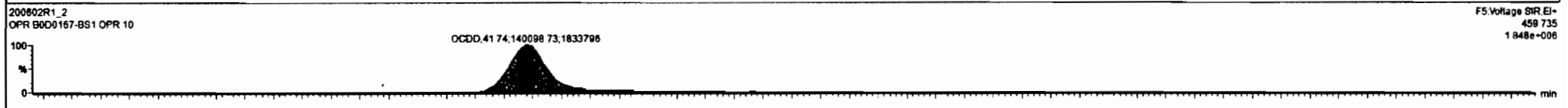
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200602R1_2



2,3,7,8-TCDD	5.72e4	0.75	NO	0.8883	10.000	28.54	1.001	18.2		0.120	18.2
1,2,3,7,8-PeCDD	2.47e5	0.83	NO	0.9081	10.000	31.50	1.000	95.1		0.182	95.1
1,2,3,4,7,8-HxCDD	2.20e5	1.24	NO	1.0334	10.000	34.88	1.000	98.8		0.208	98.8
1,2,3,6,7,8-HxCDD	2.38e5	1.24	NO	0.8823	10.000	34.98	1.001	98.2		0.207	98.2
1,2,3,7,8,9-HxCDD	2.24e5	1.23	NO	0.8889	10.000	35.24	1.000	98.5		0.219	98.5
1,2,3,4,6,7,8-HpCDD	1.80e5	1.03	NO	0.8830	10.000	38.78	1.000	100		0.301	100
2,3,7,8-TCDF	6.14e4	0.74	NO	0.7510	10.000	25.65	1.001	18.1		0.0907	18.1
1,2,3,7,8-PeCDF	3.60e5	1.58	NO	0.8825	10.000	30.22	1.000	98.2		0.180	98.2
2,3,4,7,8-PeCDF	3.60e5	1.57	NO	0.9348	10.000	31.19	1.000	98.4		0.158	98.4
1,2,3,4,7,8-HxCDF	2.32e5	1.21	NO	0.8845	10.000	33.98	1.001	98.8		0.330	98.8
1,2,3,6,7,8-HxCDF	2.85e5	1.22	NO	0.8892	10.000	34.18	1.000	99.0		0.311	99.0
2,3,4,6,7,8-HxCDF	2.69e5	1.20	NO	0.9341	10.000	34.69	1.000	99.0		0.307	99.0
1,2,3,7,8,9-HxCDF	1.98e5	1.17	NO	0.8707	10.000	35.68	1.000	97.3		0.486	97.3
1,2,3,4,6,7,8-HpCDF	1.77e6	0.89	NO	0.8734	10.000	37.37	1.000	98.2		0.370	98.2
1,2,3,4,7,8,9-HpCDF	1.43e6	1.00	NO	1.0128	10.000	39.32	1.000	101		0.414	101
OCDF	2.90e5	0.87	NO	0.8085	10.000	41.94	1.000	198		0.299	198
13C-2,3,7,8-TCDD	7.07e5	0.79	NO	1.1563	10.000	28.53	1.025	130	64.8	0.178	
13C-1,2,3,7,8-PeCDD	5.71e5	0.84	NO	0.8490	10.000	31.48	1.217	143	71.3	0.201	
13C-1,2,3,4,7,8-HxCDD	4.39e5	1.27	NO	0.7780	10.000	34.85	1.014	157	78.6	0.351	
13C-1,2,3,6,7,8-HxCDD	5.43e5	1.28	NO	1.0187	10.000	34.94	1.017	149	74.4	0.289	



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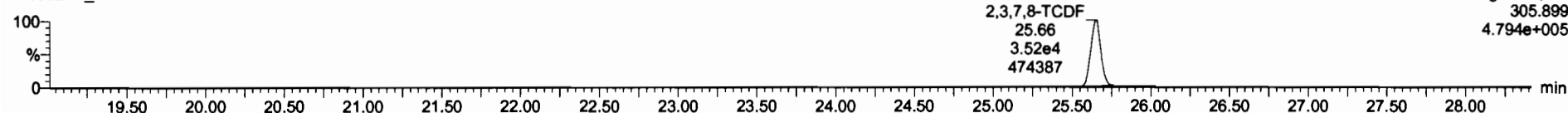
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2,3,7,8-TCDF

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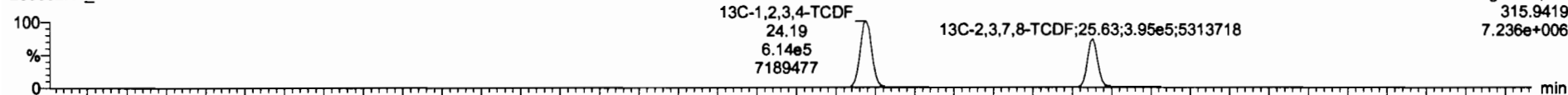


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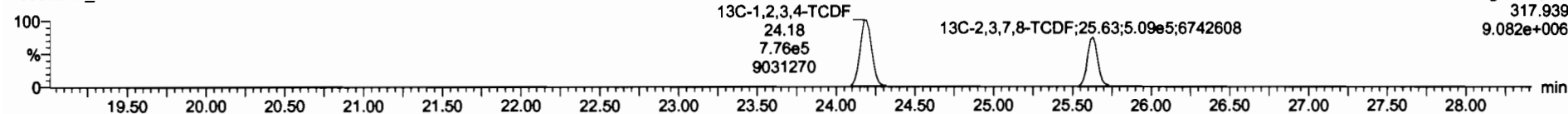


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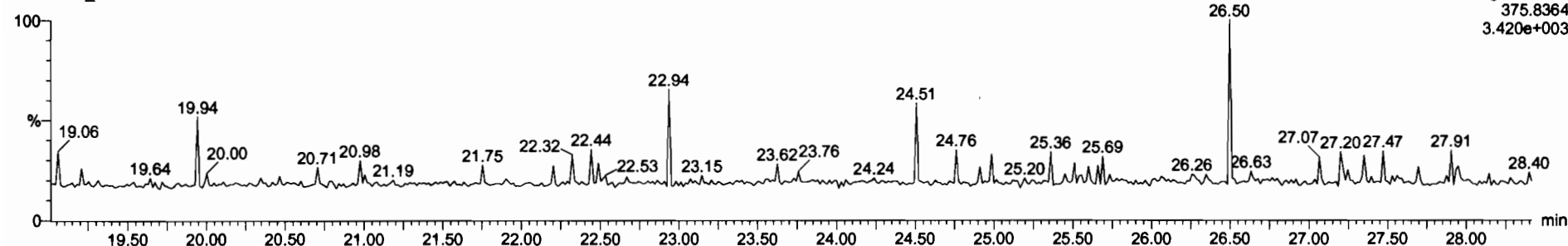


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DPE1

200602R1_2



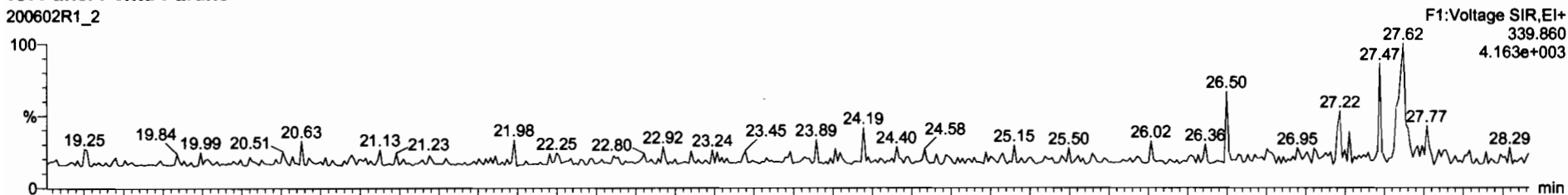
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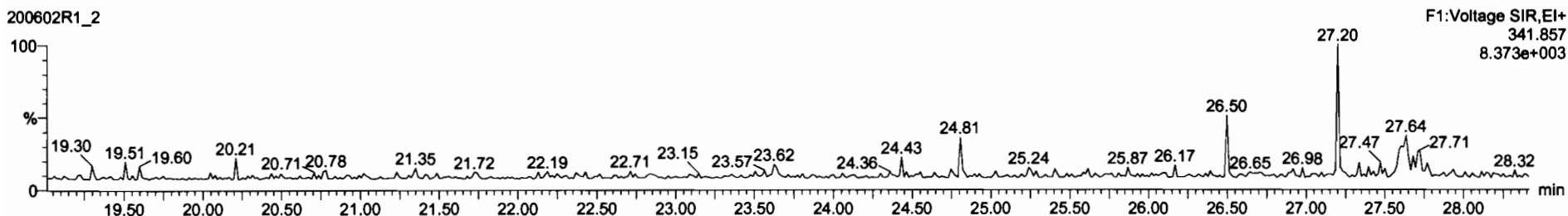
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200602R1_2

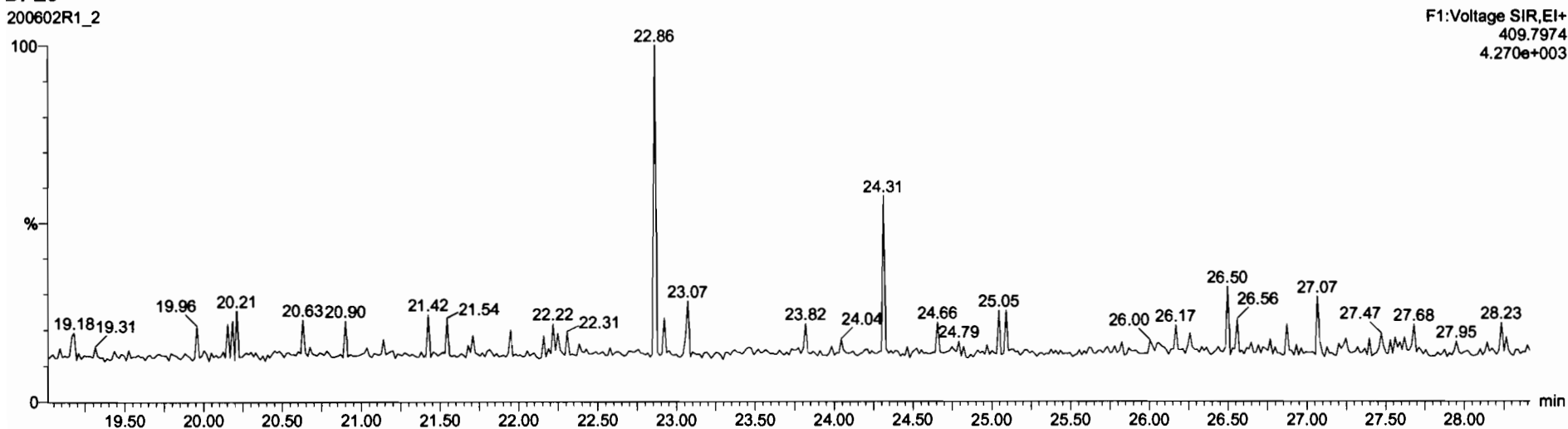


200602R1_2



DPE6

200602R1_2



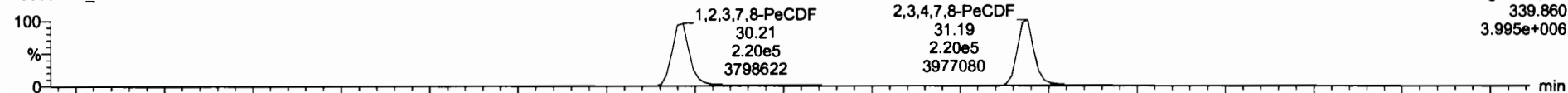
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Last Altered: Tuesday, June 02, 2020 10:05:40 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 10:07:21 Pacific Daylight Time

Name: 200602R1_2, Date: 02-Jun-2020, Time: 09:19:25, ID: B0D0167-BS1 OPR 10, Description: OPR

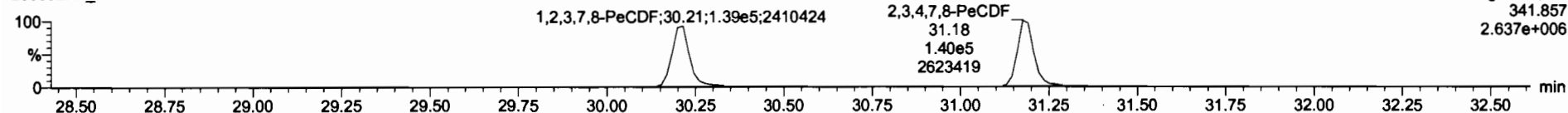
1,2,3,7,8-PeCDF

200602R1_2



F2:Voltage SIR,EI+
339.860
3.995e+006

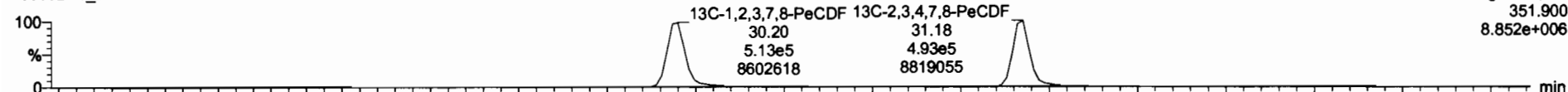
200602R1_2



F2:Voltage SIR,EI+
341.857
2.637e+006

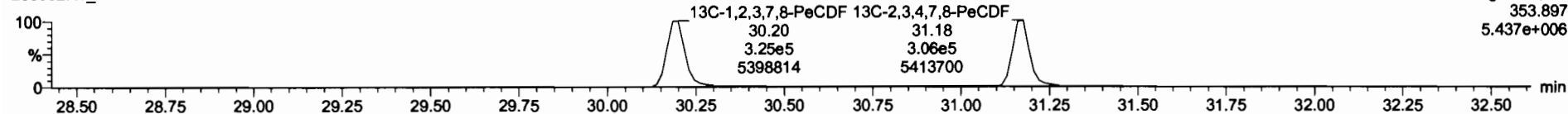
13C-1,2,3,7,8-PeCDF

200602R1_2



F2:Voltage SIR,EI+
351.900
8.852e+006

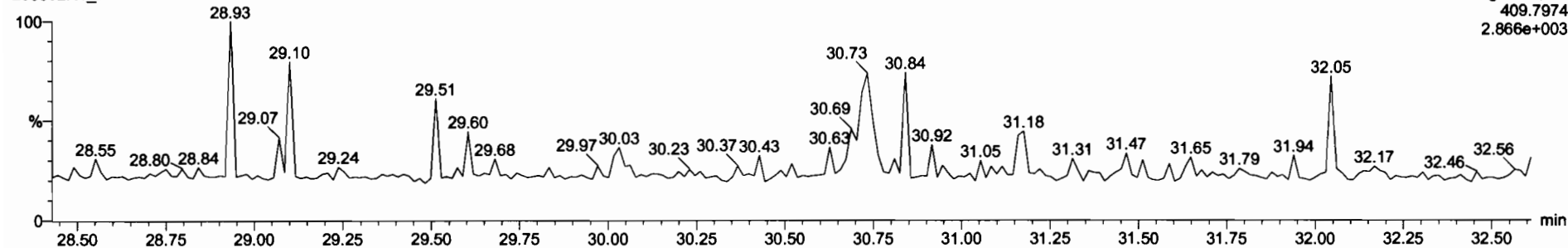
200602R1_2



F2:Voltage SIR,EI+
353.897
5.437e+006

DPE2

200602R1_2



F2:Voltage SIR,EI+
409.7974
2.866e+003

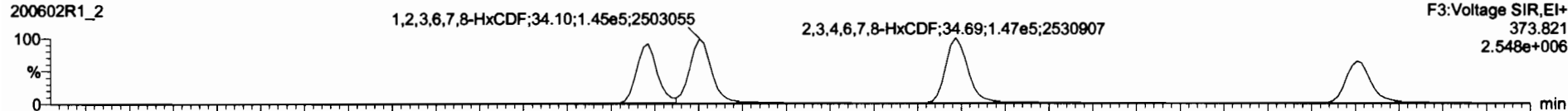
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Printed: Tuesday, June 02, 2020 10:07:21 Pacific Daylight Time

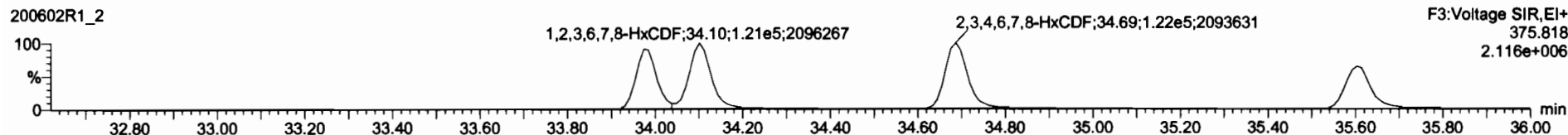
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1,2,3,4,7,8-HxCDF

200602R1_2

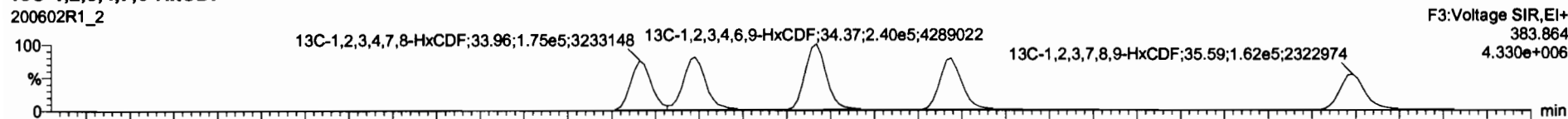


200602R1_2

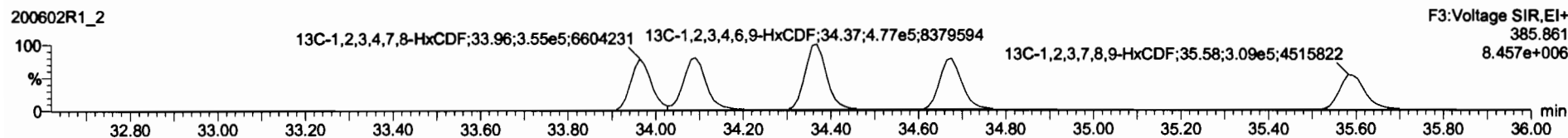


13C-1,2,3,4,7,8-HxCDF

200602R1_2

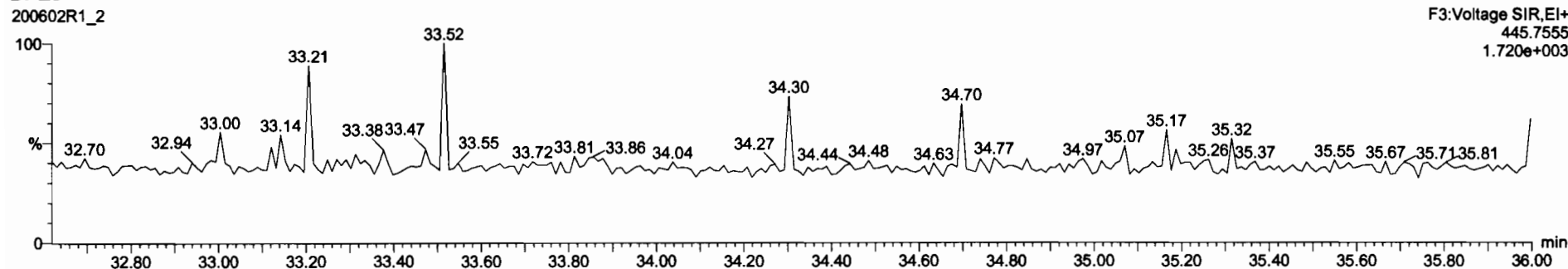


200602R1_2

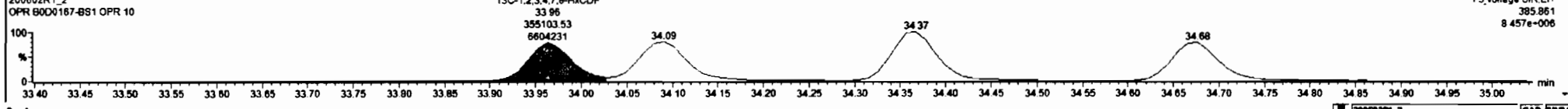
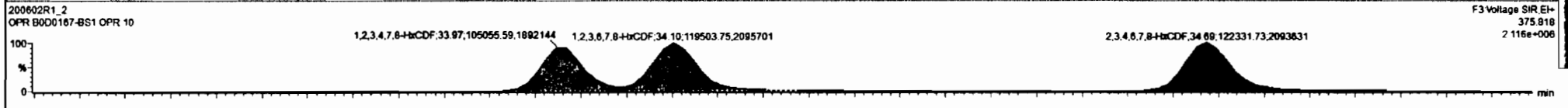
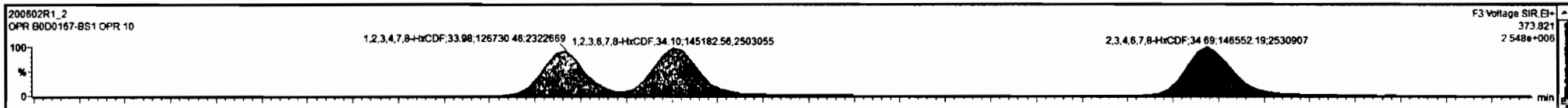


DPE3

200602R1_2



13C-1,2,3,4,6,8-HxCDF	7.17e5	0.50	NO	1.0000	10.000	34.37	1.000	200	100	0.605
Total Tetra-Dioxine	0.8883	10.000						18.2		0.120 18.5
Total Penta-Dioxine	0.9001	10.000						95.1		0.162 95.1
Total Hexa-Dioxine	0.8823	10.000						294		0.220 294
Total Hepta-Dioxine	0.8630	10.000						101		0.301 101
Total Tetra-Furane	0.7510	10.000						18.1		0.0907 18.1
1st Func. Penta-Furane	0.8825	10.000								0.0152
Total Penta-Furane	0.8825	10.000						194		0.178 194
Total Hepta-Furane	0.8734	10.000						197		0.414 197
PPK1										
PPK2										
PPK3										
PPK4										
PPK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 10:05:40 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 10:07:21 Pacific Daylight Time

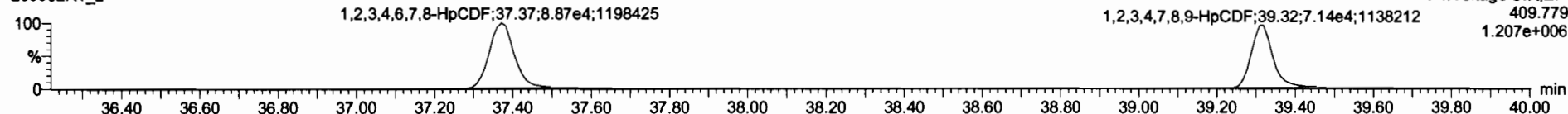
Name: 200602R1_2, Date: 02-Jun-2020, Time: 09:19:25, ID: B0D0167-BS1 OPR 10, Description: OPR

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

200602R1_2



200602R1_2

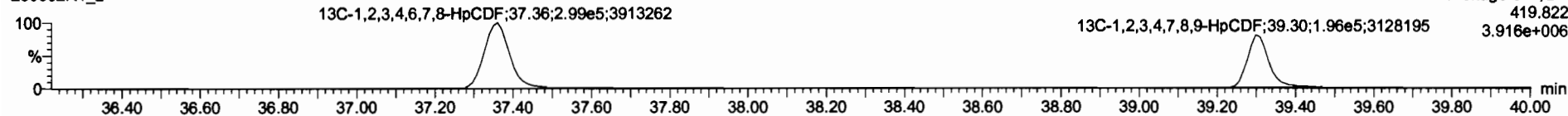


13C-1,2,3,4,6,7,8-HpCDF

200602R1_2

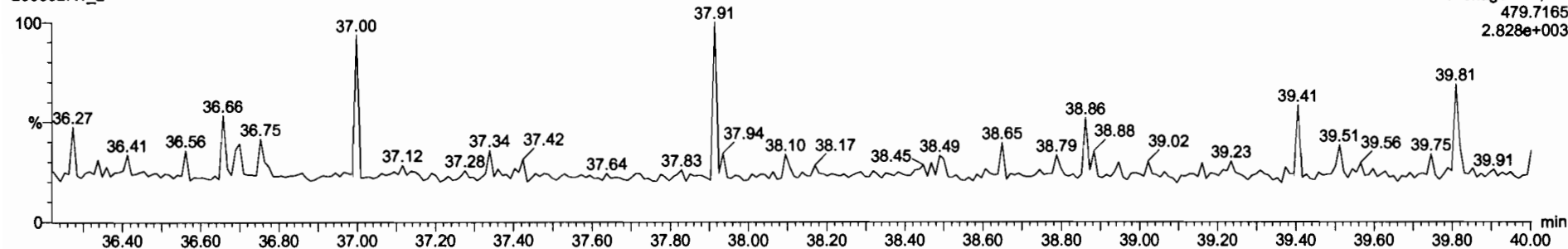


200602R1_2



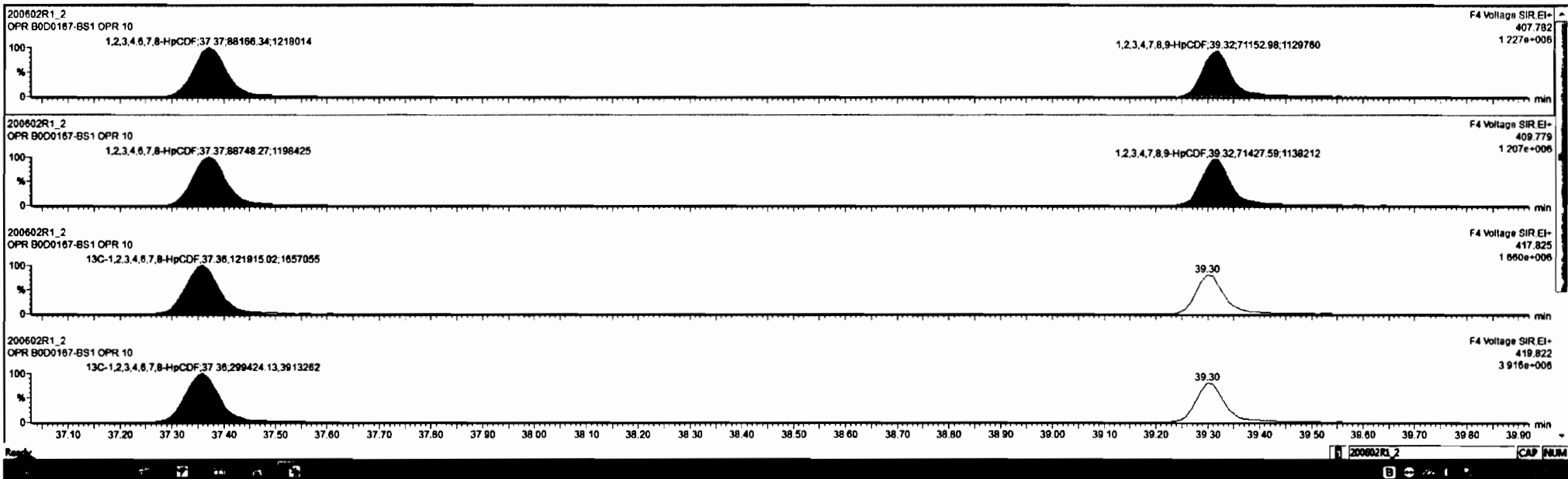
DPE4

200602R1_2



13C-1,2,3,4,6,8,9-HpCDF	7.17e5	0.50	NO	1.0000	10.000	34.37	1.900	200	100	0.805
Total Tetra-Dioxins				0.8883	10.000			18.2		0.120 18.5
Total Penta-Dioxins				0.8061	10.000			95.1		0.182 95.1
Total Hexa-Dioxins				0.8823	10.000			294		0.220 294
Total Hepta-Dioxins				0.8639	10.000			101		0.301 101
Total Tetra-Furans				0.7510	10.000			18.1		0.0907 18.1
1st Func. Penta-Furans				0.8825	10.000					0.0152
Total Penta-Furans				0.8825	10.000			194		0.178 194
Total Hexa-Furans				0.9341	10.000			301		0.336 301

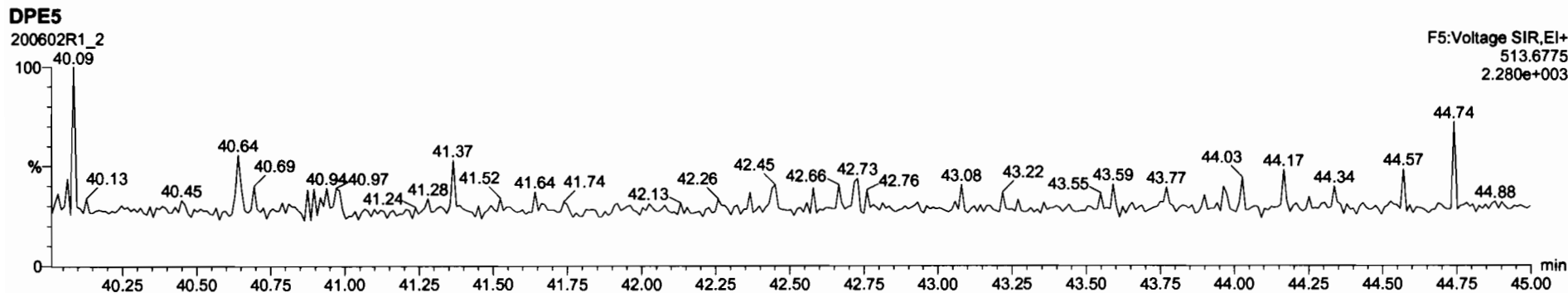
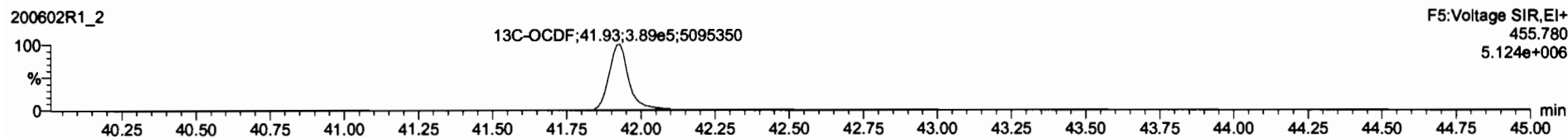
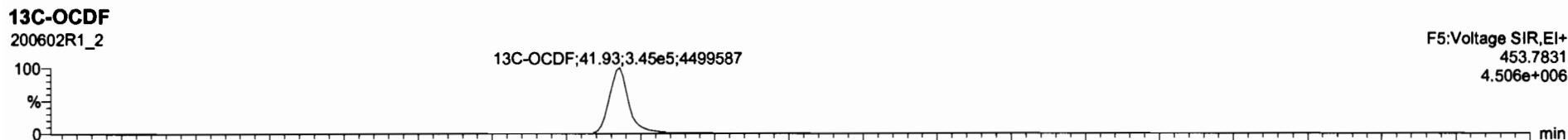
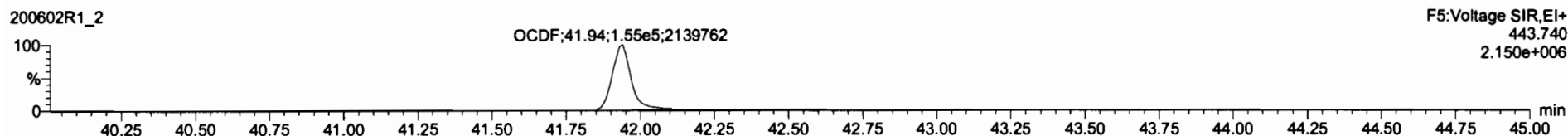
PPK1										
PPK2										
PPK3										
PPK4										
PPK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 10:05:40 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 10:07:21 Pacific Daylight Time

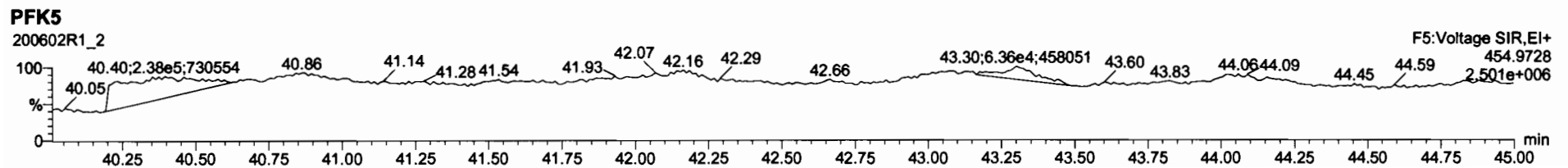
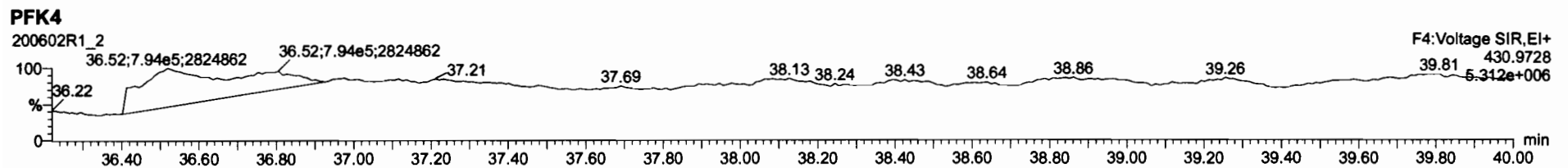
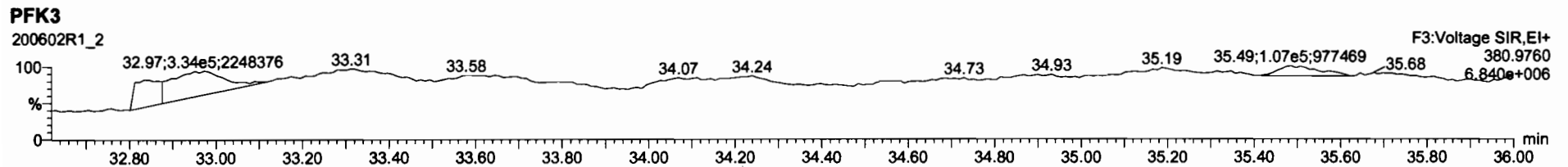
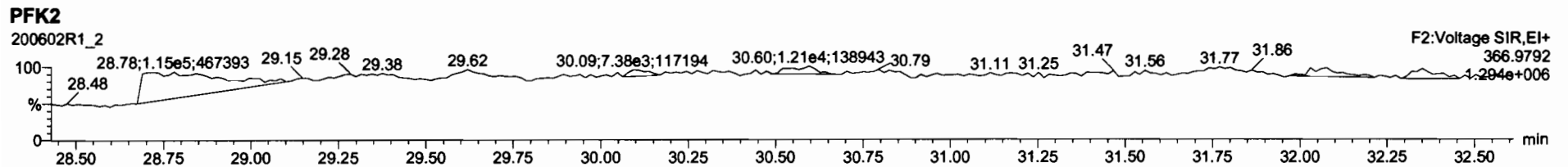
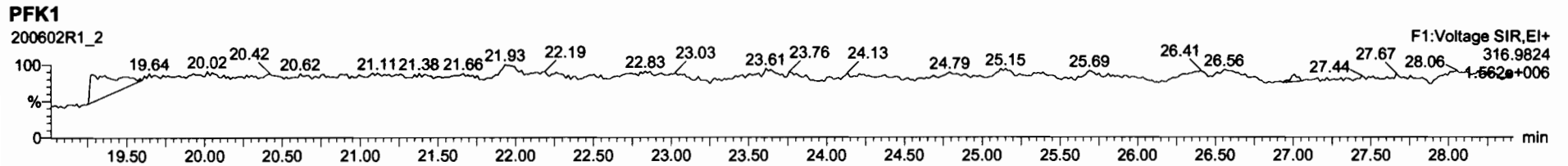
Name: 200602R1_2, Date: 02-Jun-2020, Time: 09:19:25, ID: B0D0167-BS1 OPR 10, Description: OPR



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 10:05:40 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 10:07:21 Pacific Daylight Time

Name: 200602R1_2, Date: 02-Jun-2020, Time: 09:19:25, ID: B0D0167-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

Last Altered: Thursday, July 09, 2020 10:42:12 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:42:37 Pacific Daylight Time

DB 7/9/20 CH 07/09/2020

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-1-20.mdb 01 Jul 2020 12:59:26
Callbration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200701R1_7, Date: 01-Jul-2020, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	w/wol	Pred.RT	RT	Pred.RRT	RRT	Conc	Area	Std
1	2,3,7,8-TCDD			NO	0.888	10.000	26.456		1.001				0.0314
2	1,2,3,7,8-PeCDD			NO	0.908	10.000	31.442		1.001				0.0378
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.000	34.803		1.000				0.0527
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.000	34.900		1.000				0.0528
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.000	35.223		1.001				0.0591
6	1,2,3,4,6,7,8-HpCDD			NO	0.864	10.000	38.746		1.000				0.0681
7	OCDD			NO	0.914	10.000	41.716		1.000				0.0895
8	2,3,7,8-TCDF			NO	0.751	10.000	25.552		1.001				0.0199
9	1,2,3,7,8-PeCDF			NO	0.893	10.000	30.160		1.001				0.0258
10	2,3,4,7,8-PeCDF			NO	0.935	10.000	31.146		1.001				0.0241
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.000	33.931		1.000				0.0316
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.000	34.058		1.000				0.0296
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.000	34.669		1.001				0.0326
14	1,2,3,7,8,9-HxCDF	3.06e2	1.54	YES	0.871	10.000	35.550	35.58	1.000	1.001	0.11433	0.0403	0.101
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.000	37.365		1.001				0.0573
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	39.277		1.000				0.0643
17	OCDF			NO	0.806	10.000	41.908		1.000				0.0640
18	13C-2,3,7,8-TCDD	9.30e5	0.80	NO	1.16	10.000	26.471	26.42	1.027	1.026	221.93	111	0.178
19	13C-1,2,3,7,8-PeCDD	6.96e5	0.63	NO	0.849	10.000	31.678	31.42	1.230	1.219	226.18	113	0.265
20	13C-1,2,3,4,7,8-HxCDD	5.15e5	1.30	NO	0.779	10.000	34.799	34.79	1.014	1.014	192.24	96.1	0.441
21	13C-1,2,3,6,7,8-HxCDD	6.65e5	1.28	NO	1.02	10.000	34.898	34.90	1.017	1.017	190.35	95.2	0.338
22	13C-1,2,3,7,8,9-HxCDD	6.01e5	1.23	NO	0.903	10.000	35.173	35.19	1.025	1.025	193.51	96.8	0.381
23	13C-1,2,3,4,6,7,8-HpCDD	4.59e5	1.06	NO	0.689	10.000	38.688	38.73	1.127	1.128	193.81	96.9	0.424
24	13C-OCDD	7.09e5	0.93	NO	0.652	10.000	41.983	41.72	1.223	1.215	316.10	79.0	0.390
25	13C-2,3,7,8-TCDF	1.26e6	0.79	NO	1.06	10.000	25.471	25.53	0.989	0.991	204.66	102	0.254
26	13C-1,2,3,7,8-PeCDF	1.09e6	1.60	NO	0.838	10.000	30.351	30.14	1.178	1.170	223.54	112	0.631
27	13C-2,3,4,7,8-PeCDF	1.03e6	1.55	NO	0.817	10.000	31.353	31.11	1.217	1.208	217.67	109	0.648
28	13C-1,2,3,4,7,8-HxCDF	7.32e5	0.52	NO	1.01	10.000	33.934	33.93	0.989	0.989	211.27	106	0.620
29	13C-1,2,3,6,7,8-HxCDF	8.29e5	0.51	NO	1.17	10.000	34.050	34.05	0.992	0.992	206.48	103	0.535
30	13C-2,3,4,6,7,8-HxCDF	7.33e5	0.51	NO	1.02	10.000	34.627	34.63	1.009	1.009	208.47	104	0.611
31	13C-1,2,3,7,8,9-HxCDF	6.16e5	0.52	NO	0.860	10.000	35.533	35.55	1.035	1.036	208.27	104	0.727

Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

Last Altered: Thursday, July 09, 2020 10:42:12 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:42:37 Pacific Daylight Time

Name: 200701R1_7, Date: 01-Jul-2020, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank

	Peak	RA	n/y	RRF	w/w%	Area	Height	Area	Height	Area	Height	Area	Height
32	13C-1,2,3,4,6,7,8-HpCDF	5.56e5	0.43	NO	0.774	10.000	37.256	37.33	1.085	1.087	208.83	104	0.487
33	13C-1,2,3,4,7,8,9-HpCDF	3.68e5	0.43	NO	0.521	10.000	39.292	39.28	1.145	1.144	205.37	103	0.725
34	13C-OCDF	8.15e5	0.85	NO	0.746	10.000	42.172	41.91	1.229	1.221	317.89	79.5	0.345
35	37Cl-2,3,7,8-TCDD	3.46e5			1.04	10.000	26.492	26.45	1.028	1.027	92.205	115	0.0443
36	13C-1,2,3,4-TCDD	7.25e5	0.80	NO	1.00	10.000	25.780	25.76	1.000	1.000	200.00	100	0.206
37	13C-1,2,3,4-TCDF	1.16e6	0.79	NO	1.00	10.000	24.070	24.07	1.000	1.000	200.00	100	0.269
38	13C-1,2,3,4,6,9-HxCDF	6.88e5	0.51	NO	1.00	10.000	34.340	34.33	1.000	1.000	200.00	100	0.625
39	Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0187
40	Total Penta-Dioxins				0.908	10.000	29.960		0.000				0.0175
41	Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.0336
42	Total Hepta-Dioxins				0.864	10.000	38.800		0.000				0.0351
43	Total Tetra-Furans				0.751	10.000	23.610		0.000				0.00995
44	1st Func. Penta-Furans				0.893	10.000	27.040		0.000				0.00695
45	Total Penta-Furans				0.893	10.000	29.275		0.000				0.0115
46	Total Hexa-Furans				0.934	10.000	33.555		0.000	0.00000			0.0179
47	Total Hepta-Furans				0.873	10.000	37.835		0.000				0.0280

Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

Last Altered: Thursday, July 09, 2020 10:42:12 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:42:37 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-1-20.mdb 01 Jul 2020 12:59:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200701R1_7, Date: 01-Jul-2020, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Cond	EMPC	IDL
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Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Cond	EMPC	IDL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	-----

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Cond	EMPC	IDL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	-----

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Cond	EMPC	IDL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	-----

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Cond	EMPC	IDL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	-----

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Cond	EMPC	IDL
------	----	-----------	-----------	---------	---------	----	----	------	------	------	-----

Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

Last Altered: Thursday, July 09, 2020 10:42:12 Pacific Daylight Time

Printed: Thursday, July 09, 2020 10:42:37 Pacific Daylight Time

Name: 200701R1_7, Date: 01-Jul-2020, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Comp	EMPC	LOD
------	----	-----------	-----------	---------	---------	----	-----	------	------	------	-----

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Comp	EMPC	LOD
1,2,3,7,8,9-HxCDF	35.58	2.441e3	1.835e3	1.860e2	1.204e2	1.54	YES	3.064e2	0.00000	0.10064	0.0493

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Comp	EMPC	LOD
------	----	-----------	-----------	---------	---------	----	-----	------	------	------	-----

Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

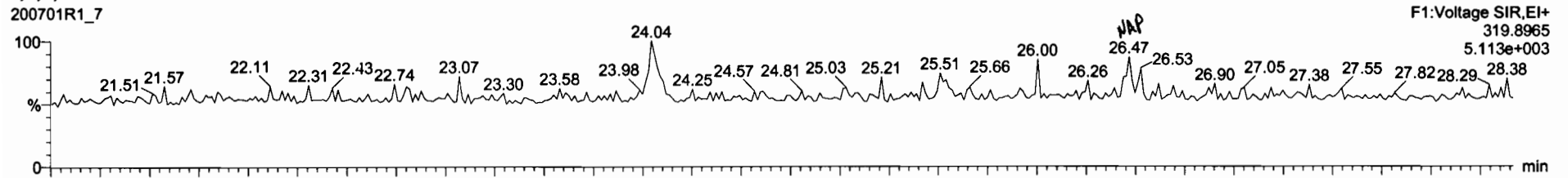
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Printed: Thursday, July 02, 2020 12:44:27 Pacific Daylight Time

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

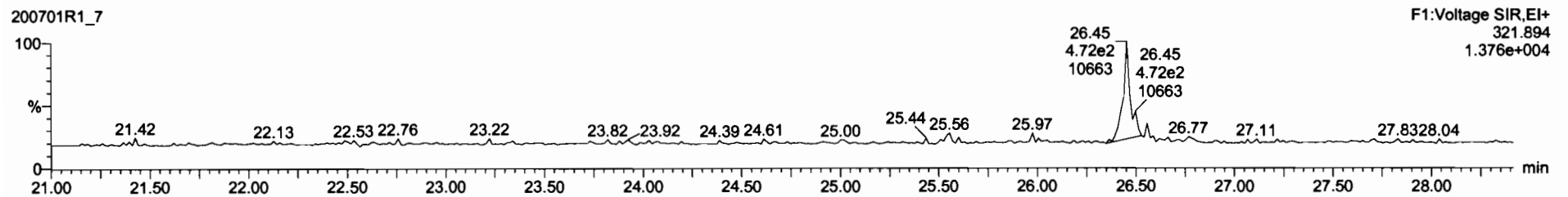
Name: 200701R1_7, Date: 01-Jul-2020, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200701R1_7

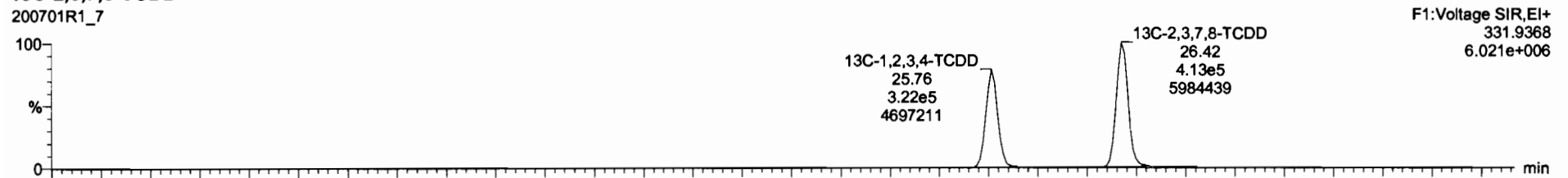


200701R1_7

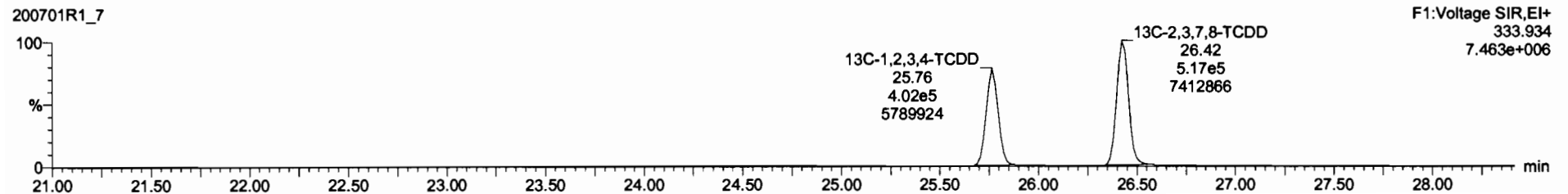


13C-2,3,7,8-TCDD

200701R1_7



200701R1_7



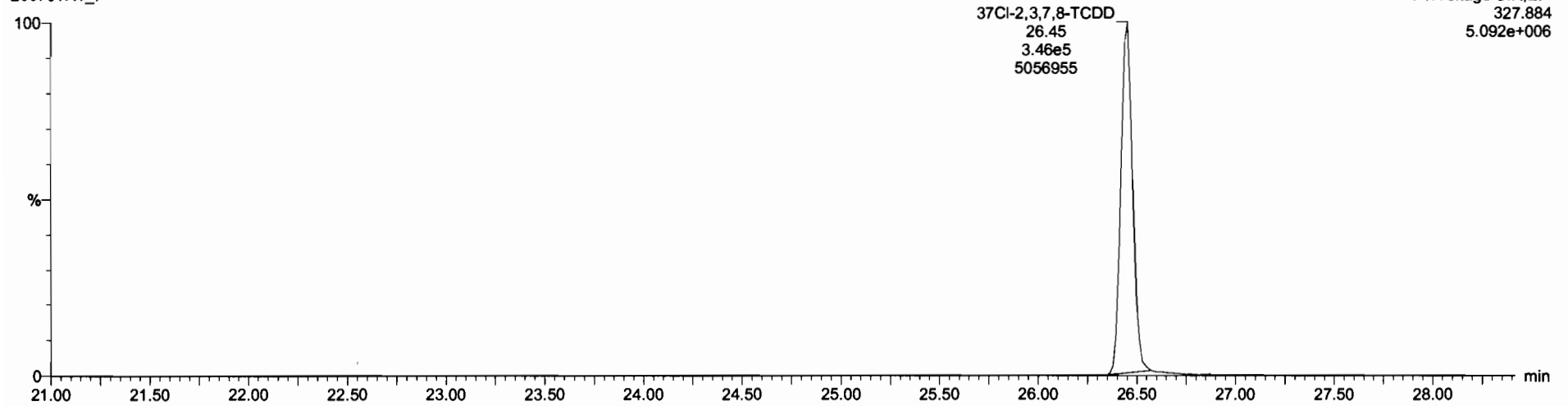
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Last Altered: Thursday, July 02, 2020 09:58:26 Pacific Daylight Time
Printed: Thursday, July 02, 2020 12:44:27 Pacific Daylight Time

Name: 200701R1_7, Date: 01-Jul-2020, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank

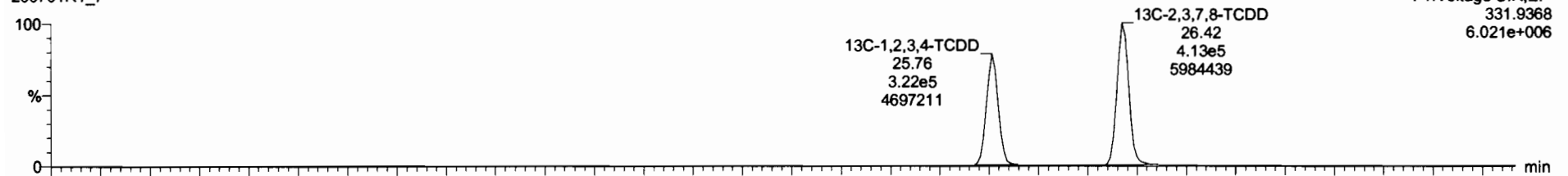
37Cl-2,3,7,8-TCDD

200701R1_7

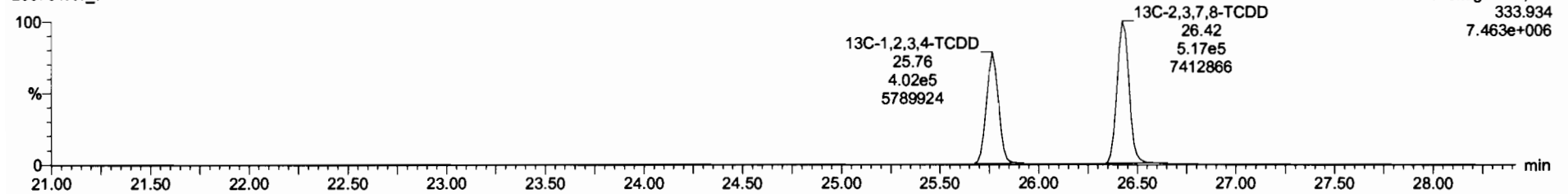


13C-1,2,3,4-TCDD

200701R1_7



200701R1_7



Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

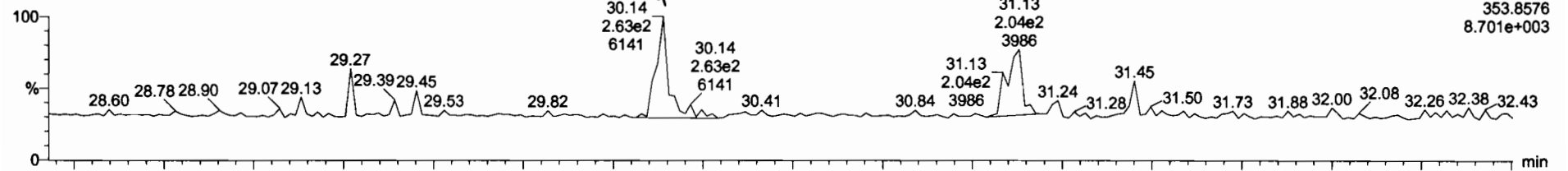
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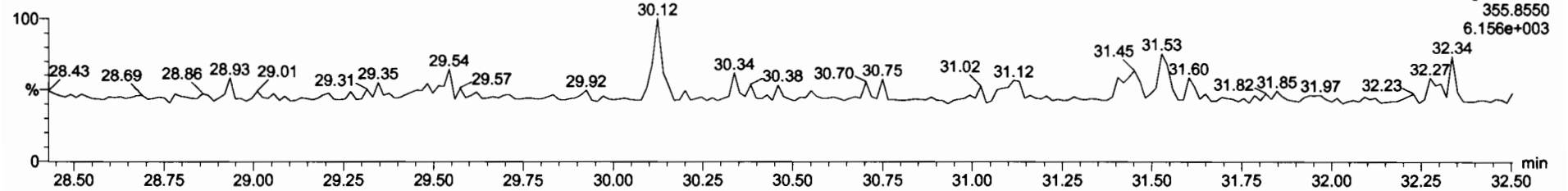
Name: 200701R1_7, Date: 01-Jul-2020, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDD

200701R1_7

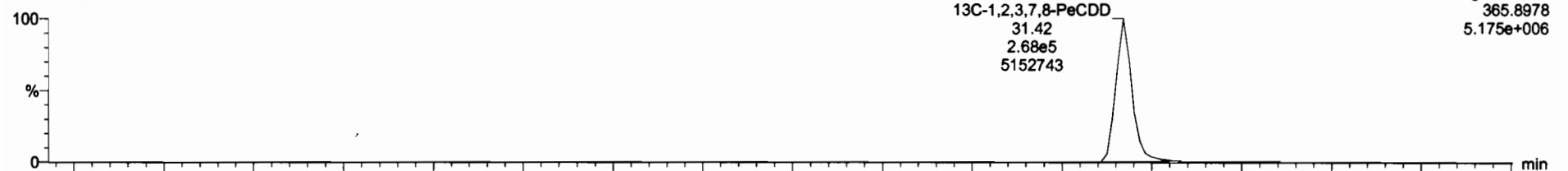


200701R1_7

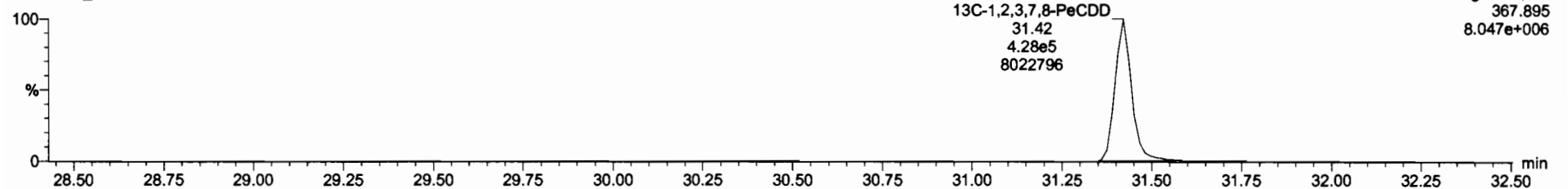


13C-1,2,3,7,8-PeCDD

200701R1_7



200701R1_7



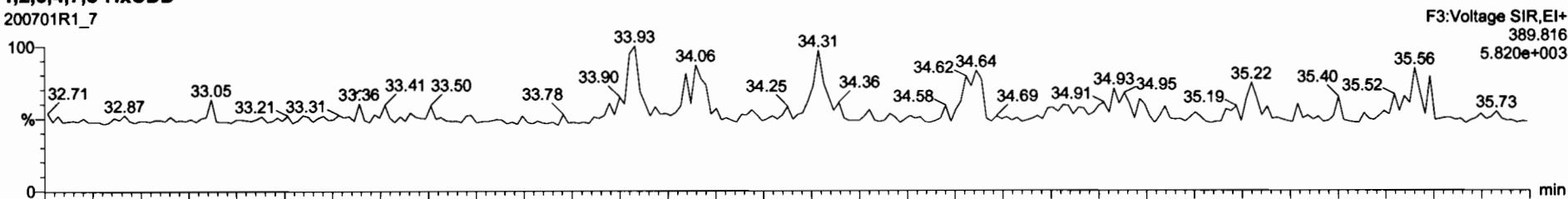
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Printed: Thursday, July 02, 2020 12:44:27 Pacific Daylight Time

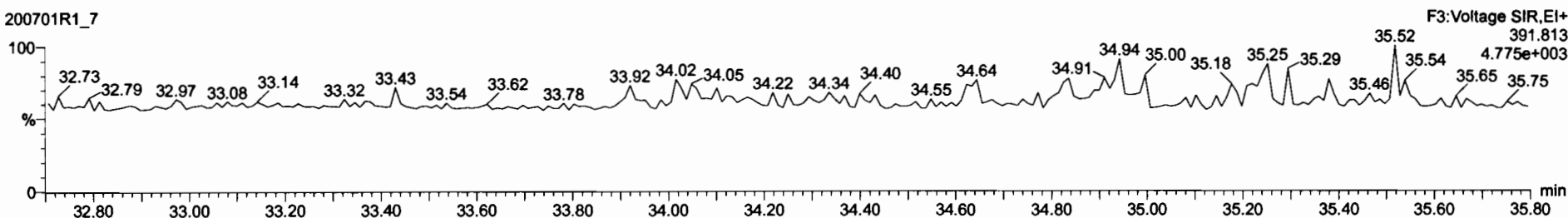
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1,2,3,4,7,8-HxCDD

200701R1_7

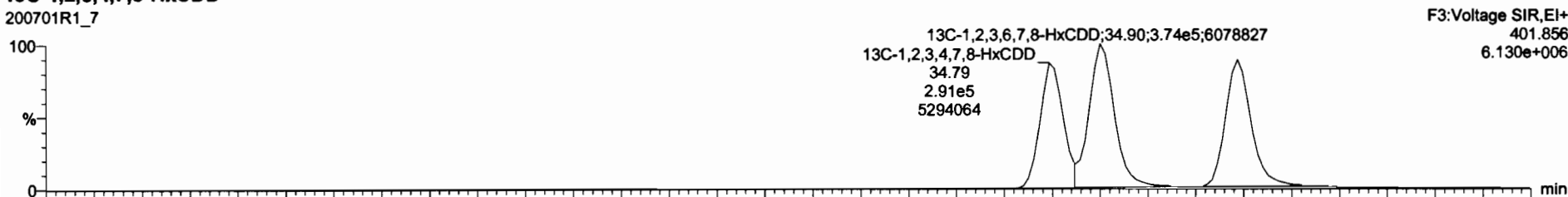


200701R1_7

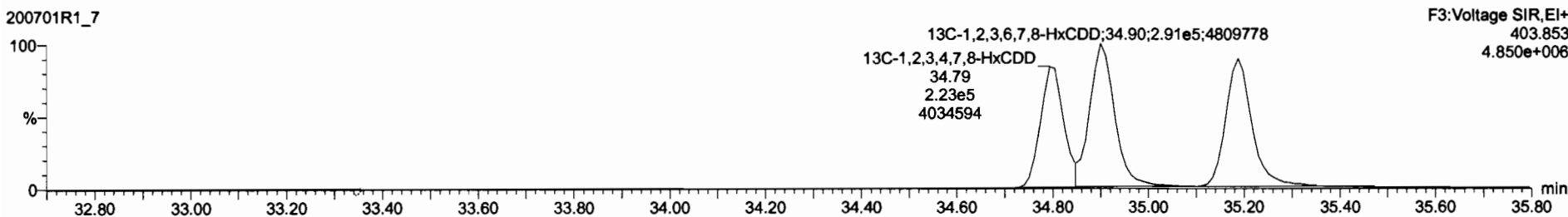


13C-1,2,3,4,7,8-HxCDD

200701R1_7



200701R1_7



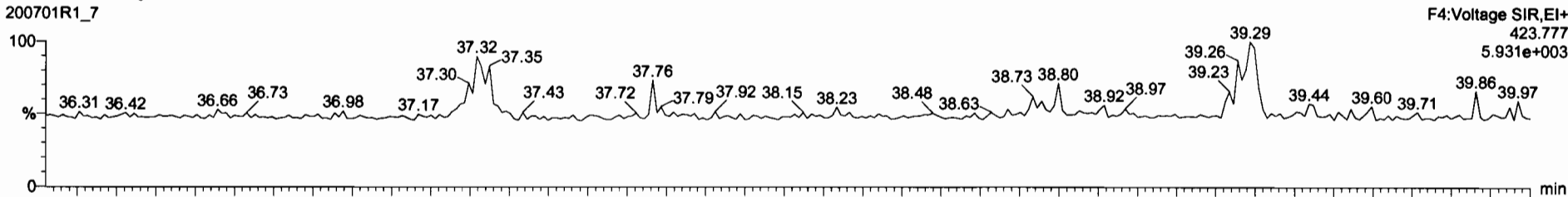
Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

Last Altered: Thursday, July 02, 2020 09:58:26 Pacific Daylight Time
Printed: Thursday, July 02, 2020 12:44:27 Pacific Daylight Time

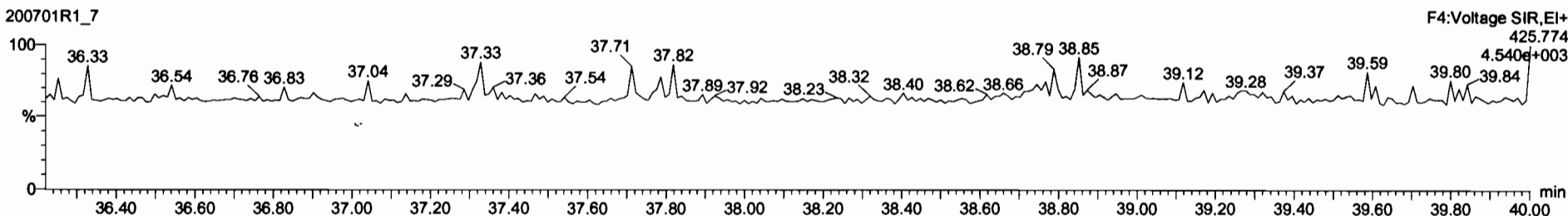
Name: 200701R1_7, Date: 01-Jul-2020, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank

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

200701R1_7

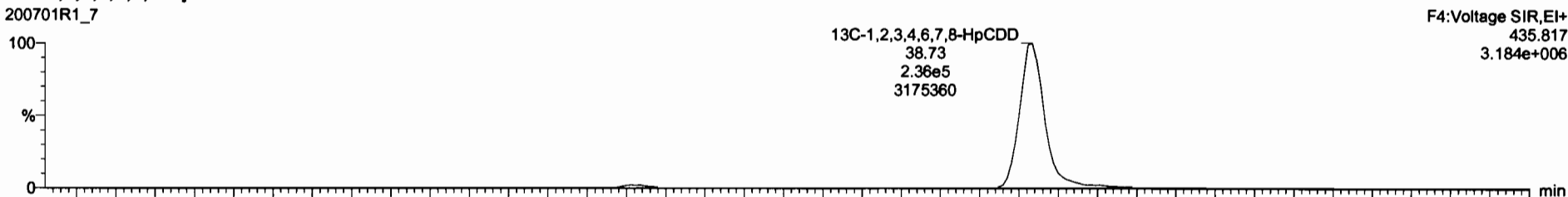


200701R1_7

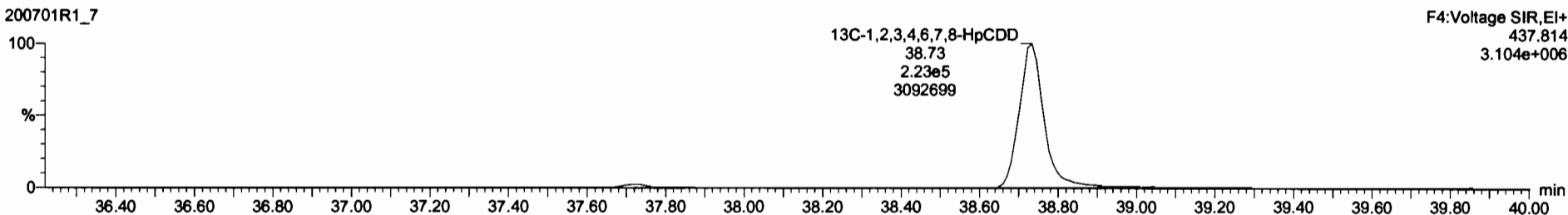


13C-1,2,3,4,6,7,8-HpCDD

200701R1_7



200701R1_7



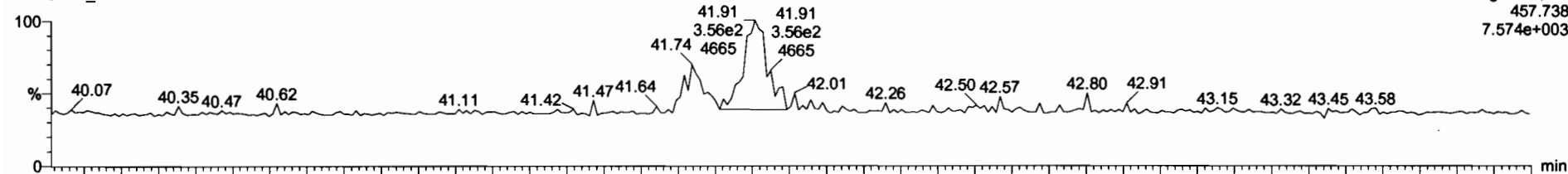
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Last Altered: Thursday, July 02, 2020 09:58:26 Pacific Daylight Time
Printed: Thursday, July 02, 2020 12:44:27 Pacific Daylight Time

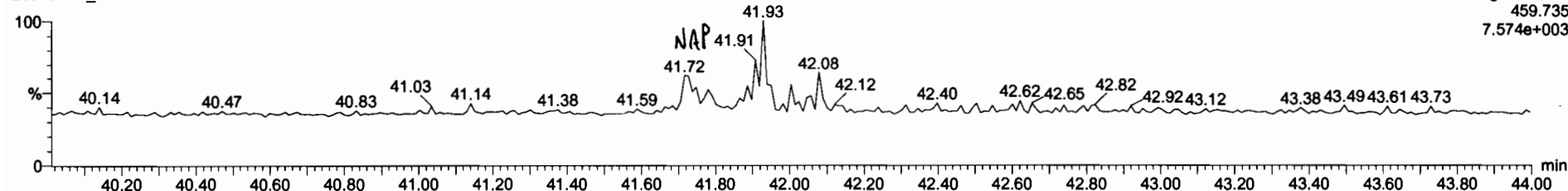
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OCDD

200701R1_7

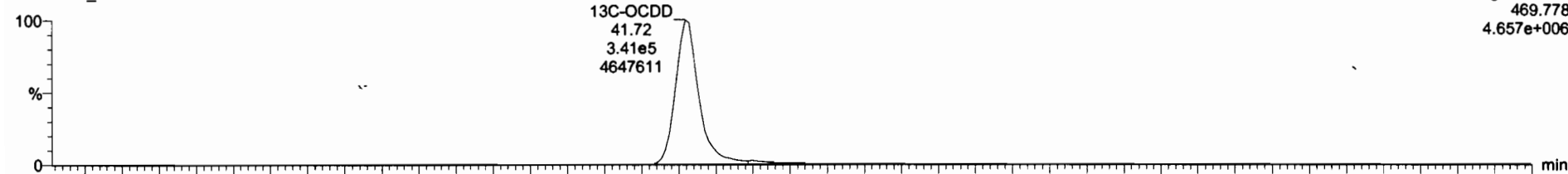


200701R1_7

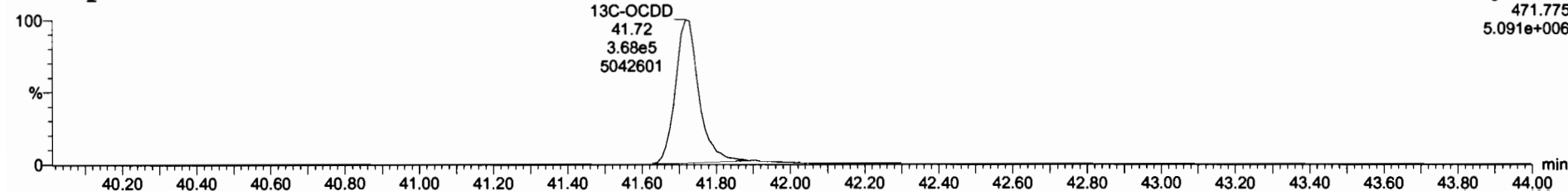


13C-OCDD

200701R1_7



200701R1_7



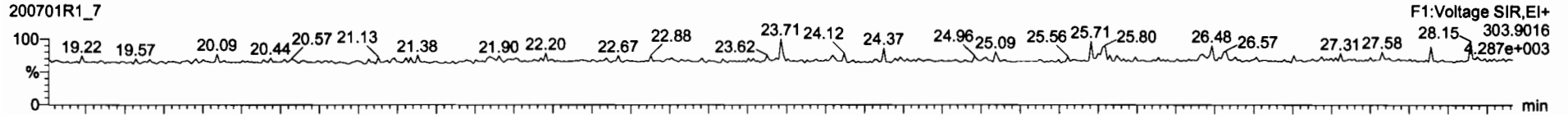
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Printed: Thursday, July 02, 2020 12:44:27 Pacific Daylight Time

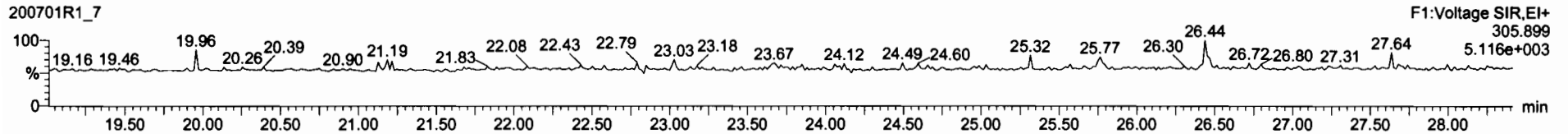
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2,3,7,8-TCDF

200701R1_7

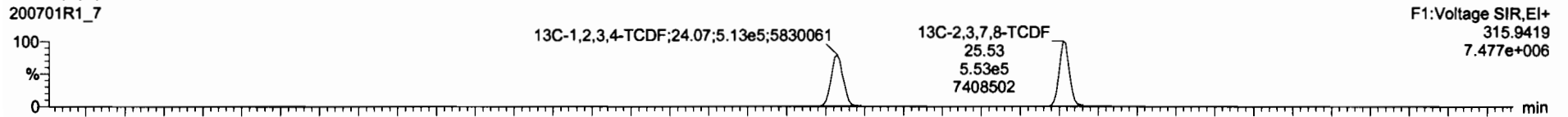


200701R1_7

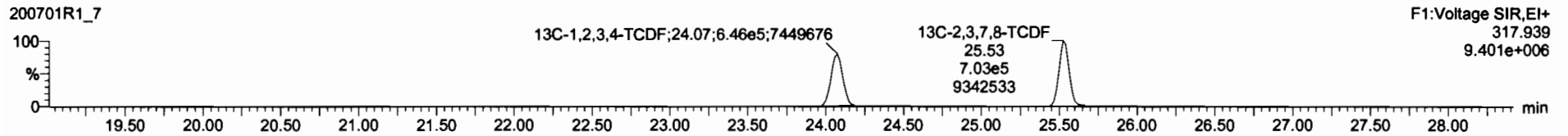


13C-2,3,7,8-TCDF

200701R1_7

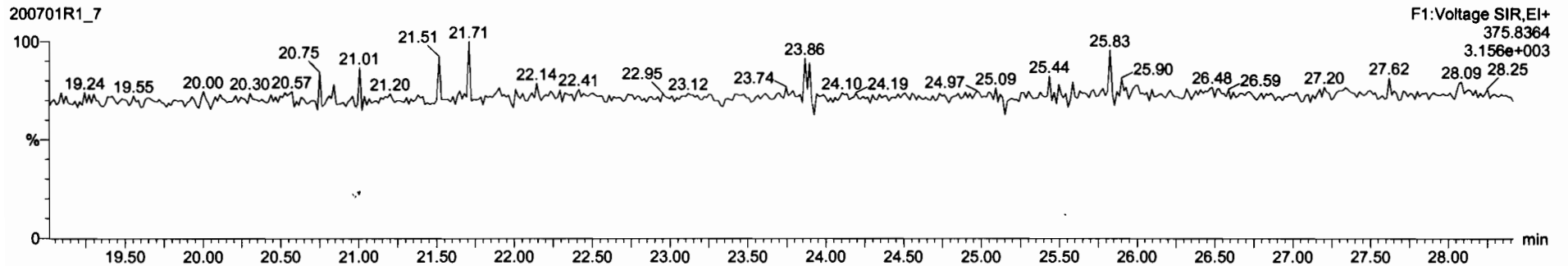


200701R1_7



DPE1

200701R1_7

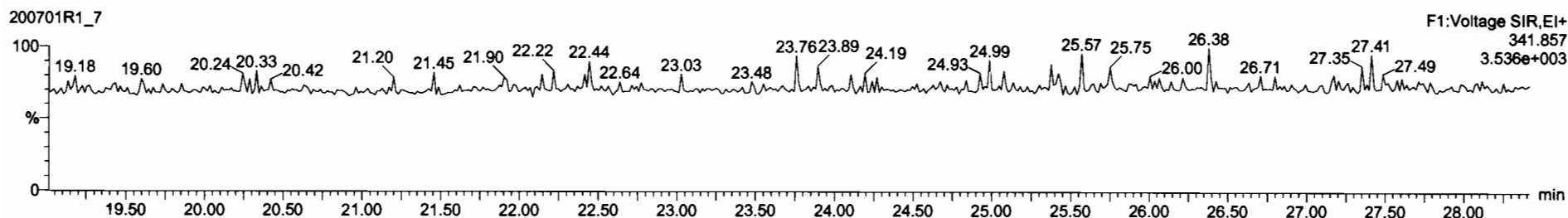
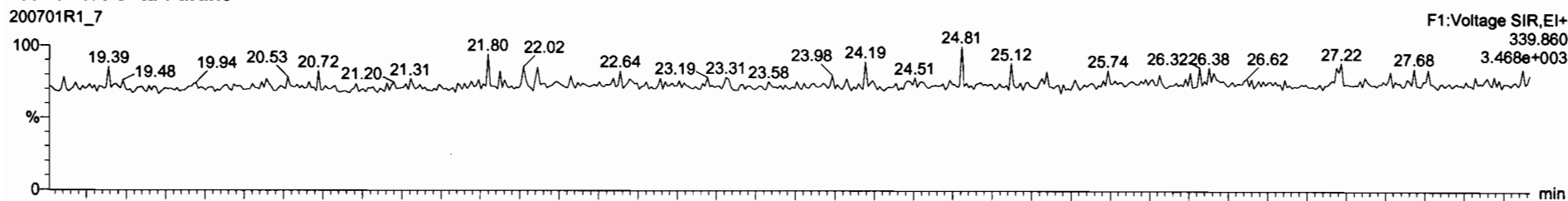


Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

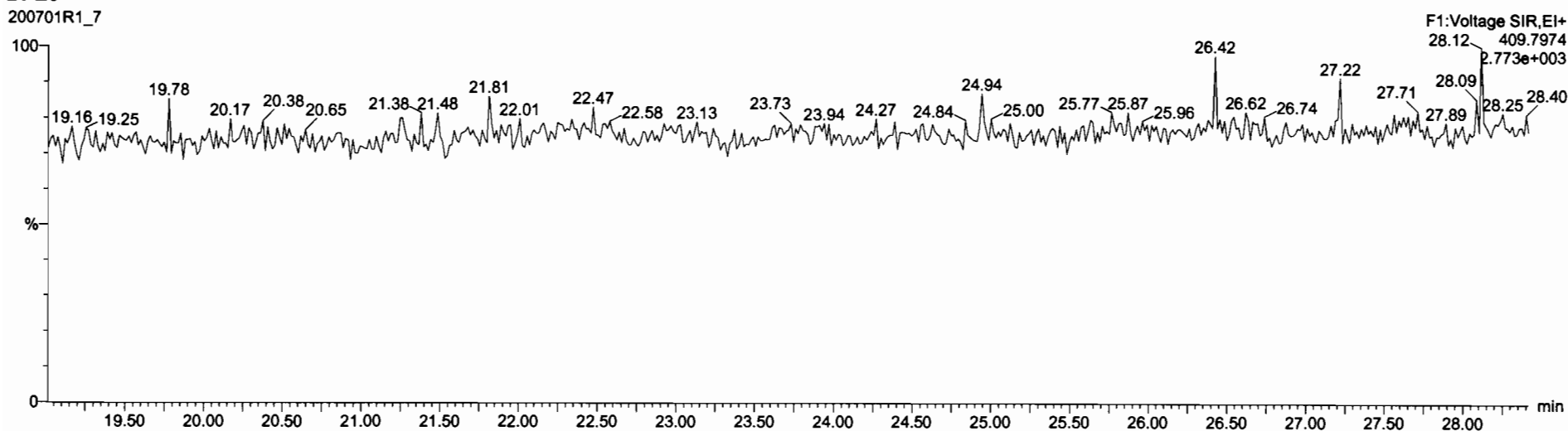
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Name: 200701R1_7, Date: 01-Jul-2020, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank

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DPE6

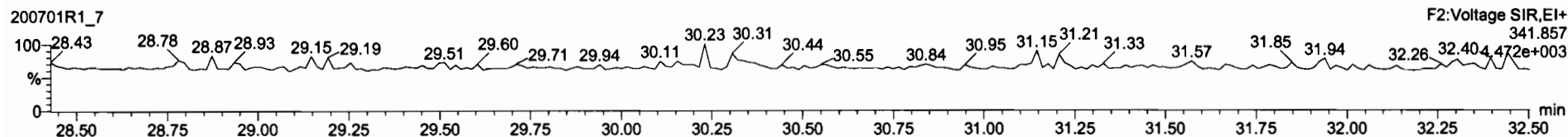
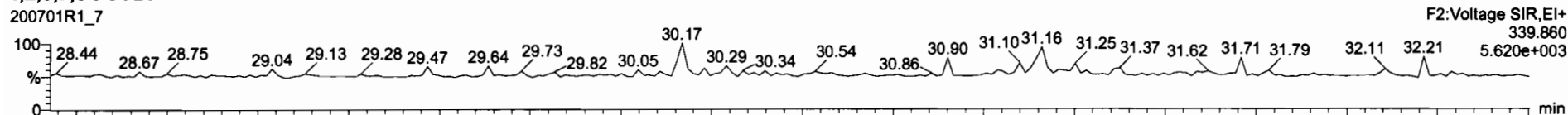


Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

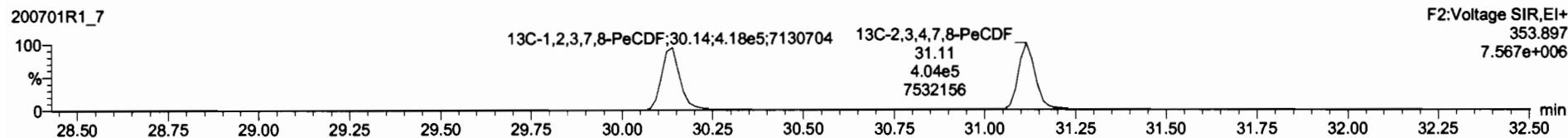
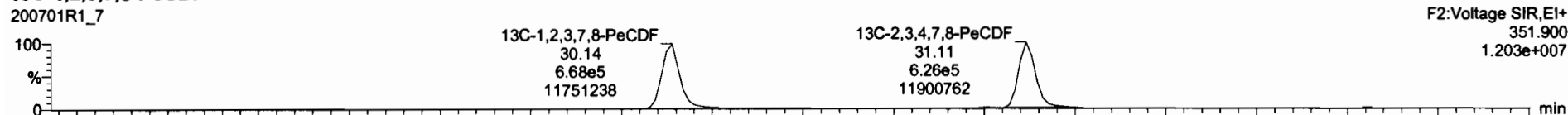
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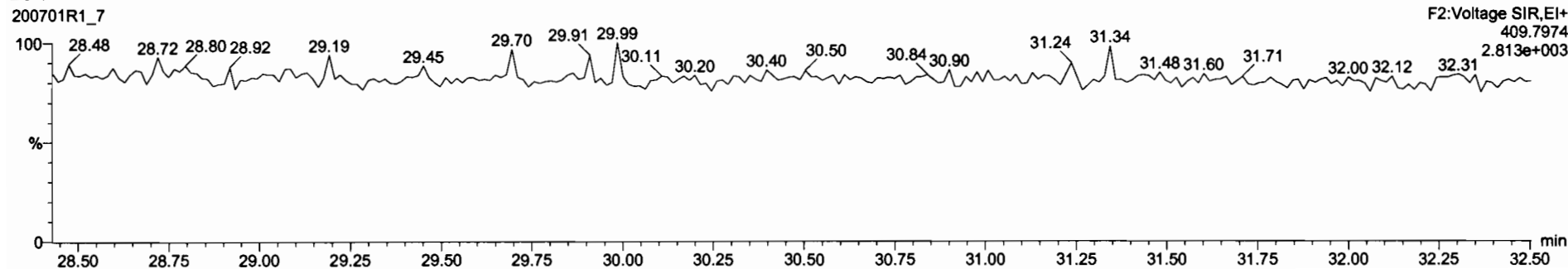
1,2,3,7,8-PeCDF



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



DPE2



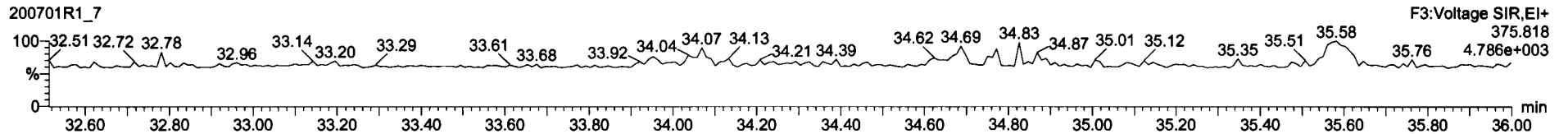
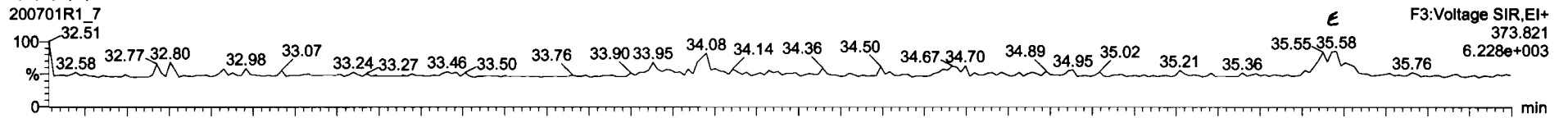
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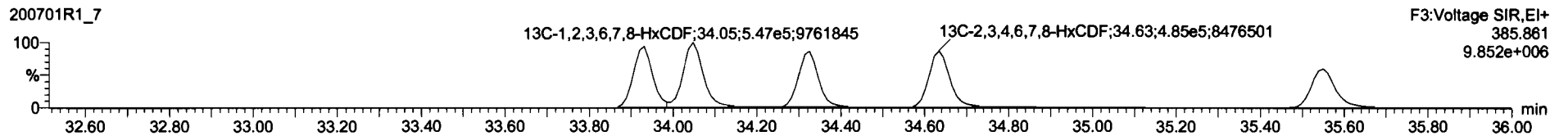
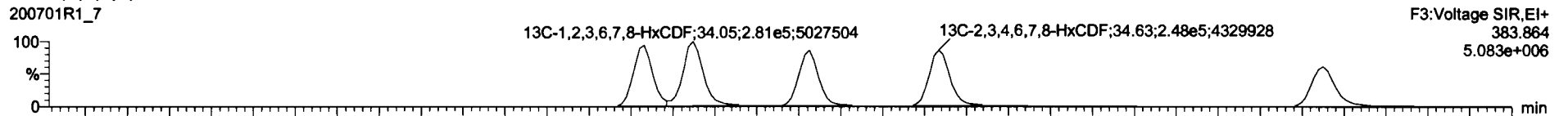
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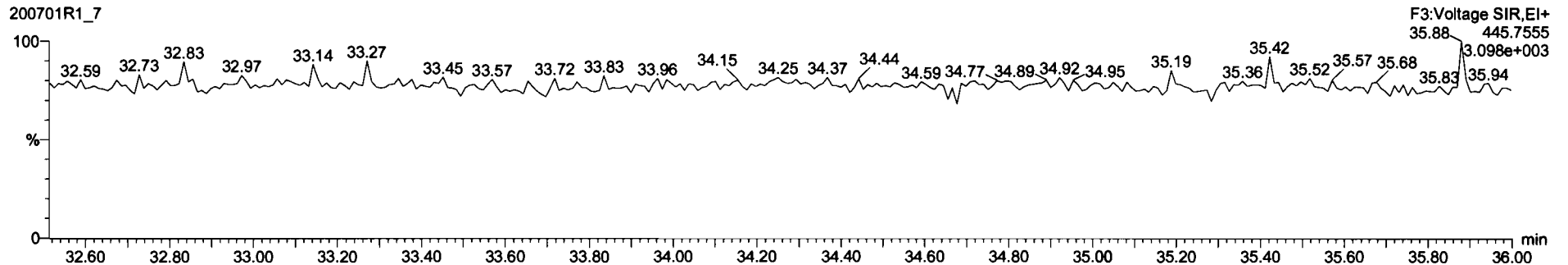
1,2,3,4,7,8-HxCDF

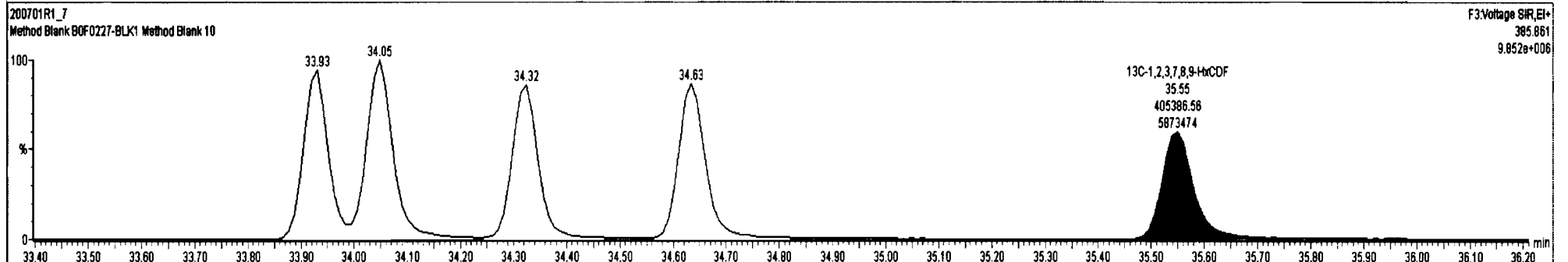
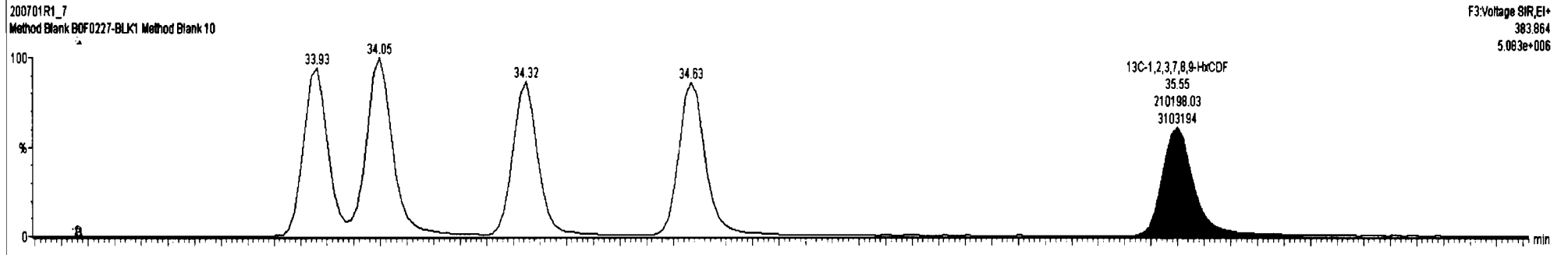
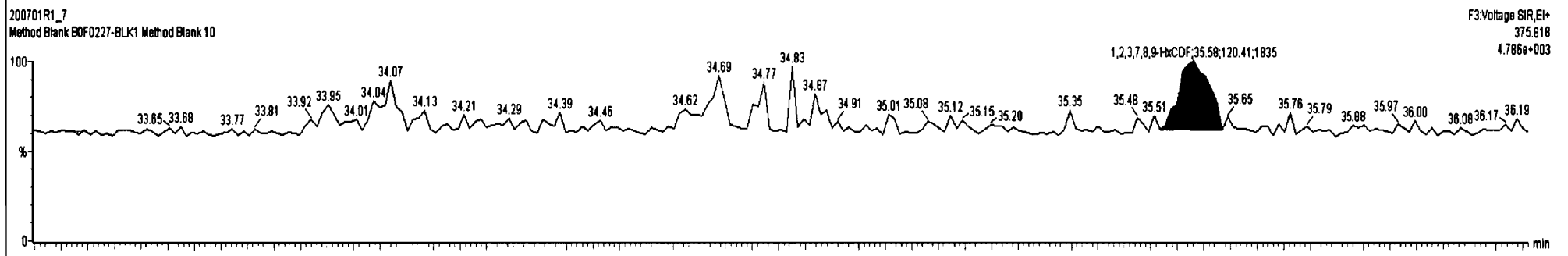
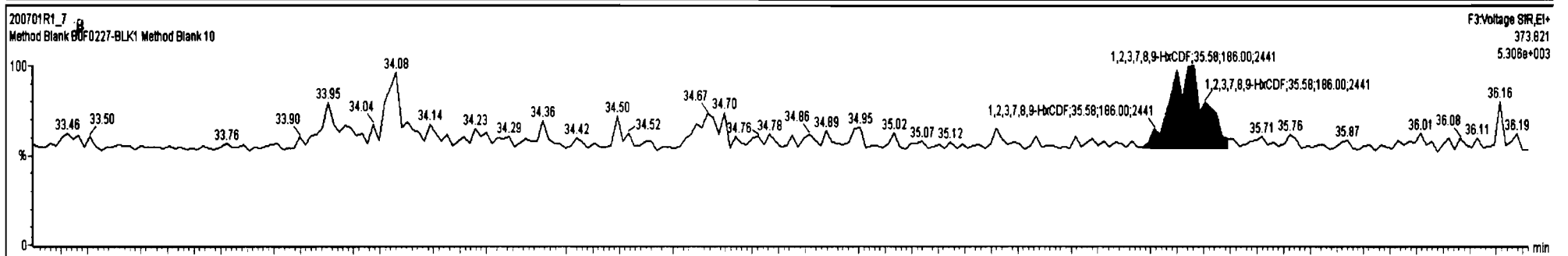


13C-1,2,3,4,7,8-HxCDF



DPE3



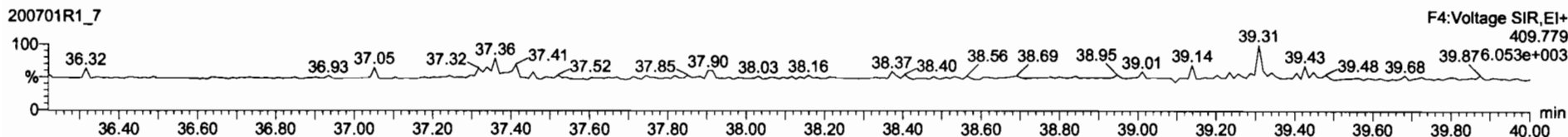
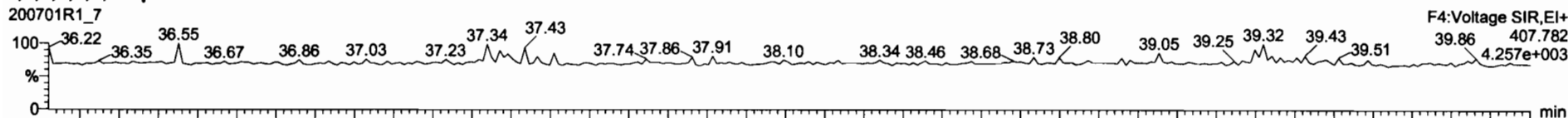


Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

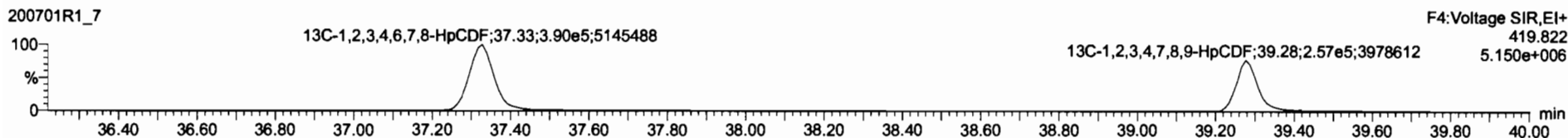
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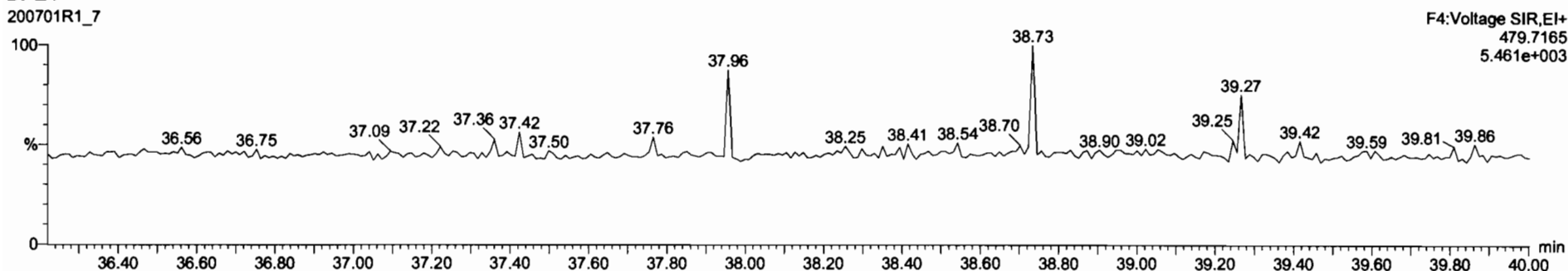
1,2,3,4,6,7,8-HpCDF



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



DPE4

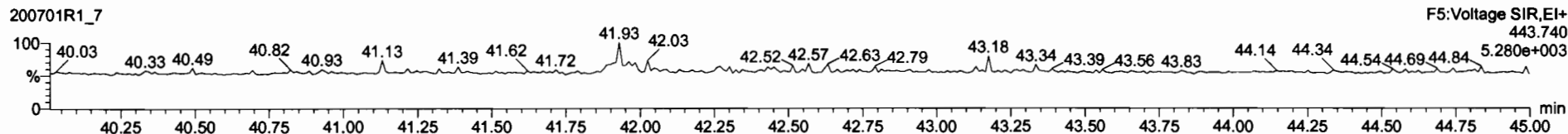
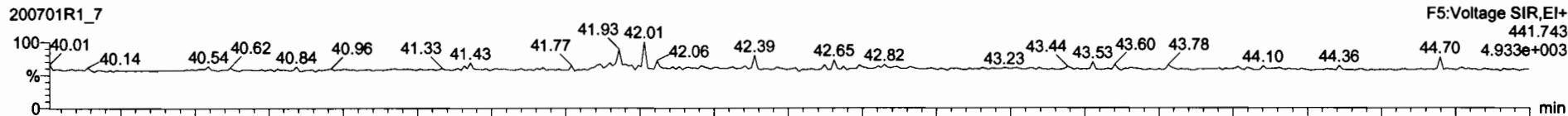


Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

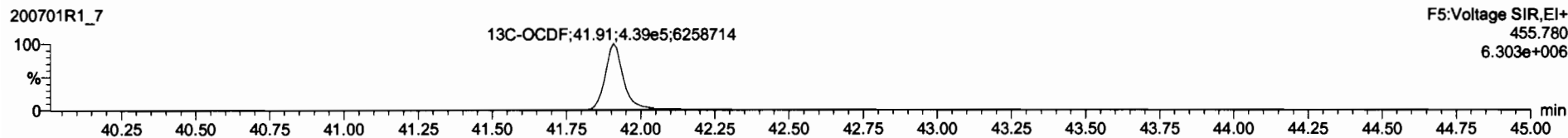
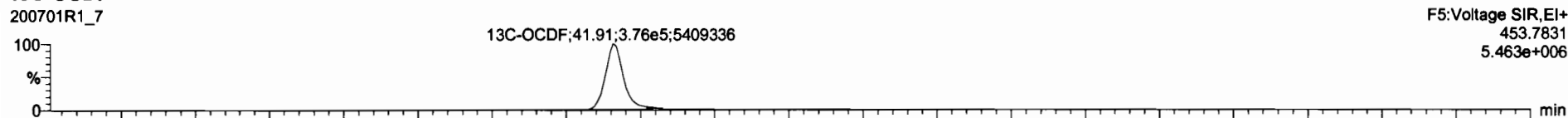
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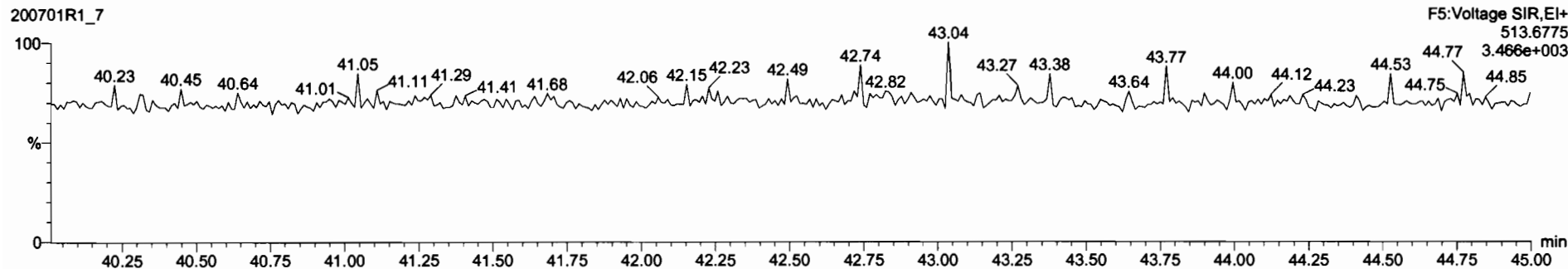
OCDF



13C-OCDF



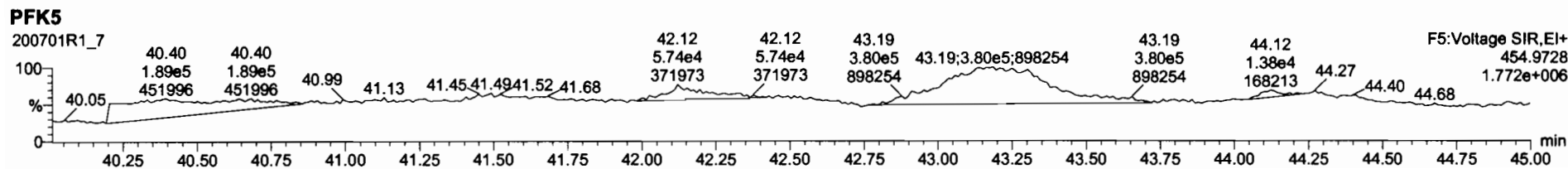
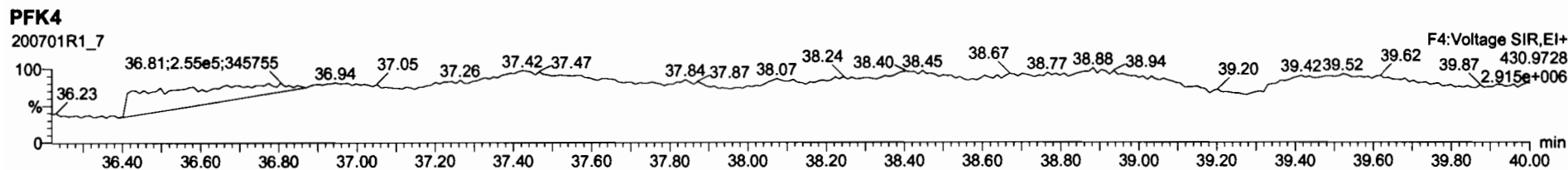
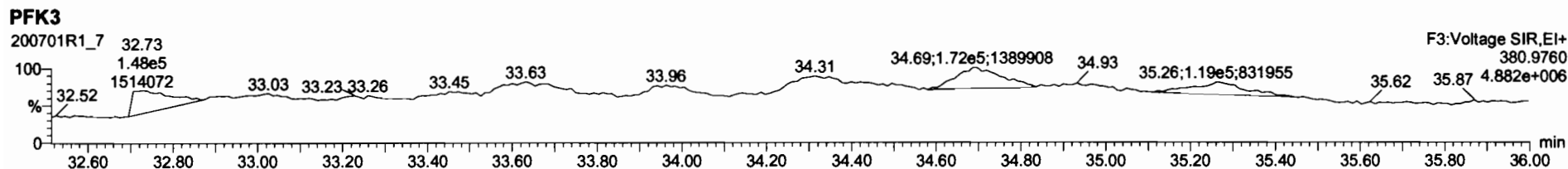
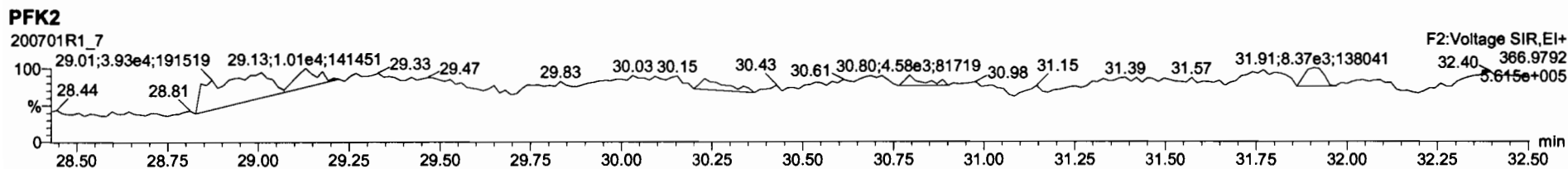
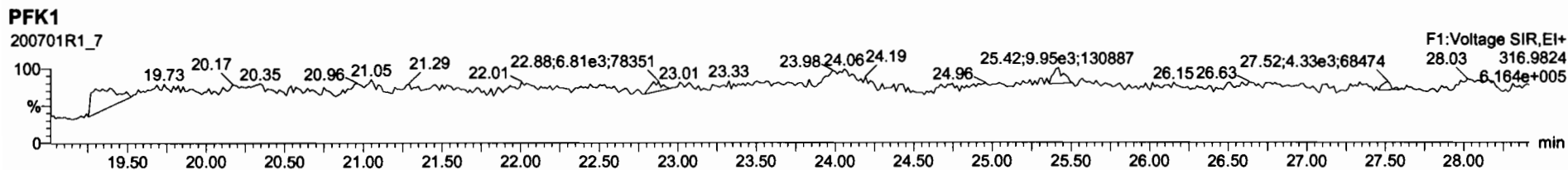
DPE5



Dataset: U:\VG12.PRO\Results\200701R1\200701R1_7.qld

Last Altered: Thursday, July 02, 2020 09:58:26 Pacific Daylight Time
Printed: Thursday, July 02, 2020 12:44:27 Pacific Daylight Time

Name: 200701R1_7, Date: 01-Jul-2023, Time: 19:11:10, ID: B0F0227-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200701R1\200701R1_5.qld

Last Altered: Thursday, July 02, 2020 09:45:21 Pacific Daylight Time
Printed: Thursday, July 02, 2020 09:46:25 Pacific Daylight Time

DB 7/2/20 0707/09/2020

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-1-20.mdb 01 Jul 2020 12:59:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200701R1_5, Date: 01-Jul-2020, Time: 17:38:45, ID: B0F0227-BS1 OPR 10, Description: OPR

Peak	Retention	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	2,3,7,8-TCDD	8.14e4	0.78	NO	0.888	10.000	26.470	26.47	1.001	1.001	20.717	104	67-158	0.0611	70-130	20.7	
2	1,2,3,7,8-PeCDD	3.30e5	0.63	NO	0.908	10.000	31.457	31.45	1.001	1.000	104.93	105	70-142	0.171		105	
3	1,2,3,4,7,8-HxCDD	2.85e5	1.25	NO	1.03	10.000	34.814	34.81	1.000	1.000	104.92	105	70-164	0.196		105	
4	1,2,3,6,7,8-HxCDD	3.16e5	1.27	NO	0.892	10.000	34.910	34.92	1.000	1.000	107.42	107	76-134	0.199		107	
5	1,2,3,7,8,9-HxCDD	2.92e5	1.25	NO	0.887	10.000	35.233	35.21	1.001	1.000	106.65	107	64-162	0.231		107	
6	1,2,3,4,6,7,8-HpCDD	2.13e5	1.03	NO	0.864	10.000	38.756	38.76	1.000	1.000	111.52	112	70-140	0.316		112	
7	OCDD	3.66e5	0.89	NO	0.914	10.000	41.727	41.74	1.000	1.000	220.92	110	78-164	0.274		221	
8	2,3,7,8-TCDF	8.87e4	0.76	NO	0.751	10.000	25.566	25.57	1.001	1.001	21.202	106	75-158	0.0788		21.2	
9	1,2,3,7,8-PeCDF	5.06e5	1.53	NO	0.893	10.000	30.175	30.15	1.001	1.000	107.67	108	80-134	0.185		108	
10	2,3,4,7,8-PeCDF	5.01e5	1.56	NO	0.935	10.000	31.161	31.15	1.001	1.000	106.08	106	68-160	0.165		106	
11	1,2,3,4,7,8-HxCDF	3.57e5	1.23	NO	0.884	10.000	33.930	33.95	1.000	1.001	110.07	110	72-134	0.275		110	
12	1,2,3,6,7,8-HxCDF	3.92e5	1.20	NO	0.889	10.000	34.068	34.07	1.000	1.000	107.33	107	74-130	0.251		107	
13	2,3,4,6,7,8-HxCDF	3.66e5	1.20	NO	0.934	10.000	34.679	34.65	1.001	1.000	108.33	108	70-156	0.276		108	
14	1,2,3,7,8,9-HxCDF	2.81e5	1.22	NO	0.871	10.000	35.560	35.57	1.000	1.000	109.33	109	78-130	0.434		109	
15	1,2,3,4,6,7,8-HpCDF	2.57e5	1.02	NO	0.873	10.000	37.365	37.34	1.001	1.000	107.50	108	82-122	0.294		108	
16	1,2,3,4,7,8,9-HpCDF	2.01e5	1.01	NO	1.01	10.000	39.288	39.30	1.000	1.000	113.46	113	78-138	0.338		113	
17	OCDF	3.71e5	0.83	NO	0.806	10.000	41.918	41.93	1.000	1.000	220.13	110	63-170	0.271		220	
18	13C-2,3,7,8-TCDD	8.84e5	0.79	NO	1.16	10.000	26.487	26.44	1.027	1.026	209.45	105	20-175	0.17640-135			
19	13C-1,2,3,7,8-PeCDD	6.93e5	0.64	NO	0.849	10.000	31.697	31.44	1.230	1.219	223.71	112	21-227	0.280			
20	13C-1,2,3,4,7,8-HxCDD	5.27e5	1.29	NO	0.779	10.000	34.798	34.80	1.014	1.014	200.67	100	21-193	0.609			
21	13C-1,2,3,6,7,8-HxCDD	6.58e5	1.28	NO	1.02	10.000	34.898	34.91	1.017	1.017	192.28	96.1	25-163	0.466			
22	13C-1,2,3,7,8,9-HxCDD	6.18e5	1.25	NO	0.903	10.000	35.172	35.20	1.025	1.025	203.15	102	21-193	0.525			
23	13C-1,2,3,4,6,7,8-HpCDD	4.42e5	1.06	NO	0.689	10.000	38.687	38.74	1.127	1.129	190.42	95.2	26-166	0.292			
24	13C-OCDD	7.25e5	0.95	NO	0.652	10.000	41.982	41.73	1.223	1.216	329.97	82.5	13-198	0.345			
25	13C-2,3,7,8-TCDF	1.11e6	0.78	NO	1.06	10.000	25.486	25.54	0.989	0.991	183.23	91.6	22-152	0.299			
26	13C-1,2,3,7,8-PeCDF	1.05e6	1.59	NO	0.838	10.000	30.369	30.15	1.178	1.170	218.70	109	21-192	0.484			
27	13C-2,3,4,7,8-PeCDF	1.01e6	1.60	NO	0.817	10.000	31.372	31.13	1.217	1.208	215.38	108	13-328	0.497			
28	13C-1,2,3,4,7,8-HxCDF	7.33e5	0.51	NO	1.01	10.000	33.933	33.93	0.989	0.989	216.08	108	19-202	0.601			
29	13C-1,2,3,6,7,8-HxCDF	8.21e5	0.51	NO	1.17	10.000	34.050	34.06	0.992	0.992	208.90	104	21-159	0.519			
30	13C-2,3,4,6,7,8-HxCDF	7.23e5	0.51	NO	1.02	10.000	34.627	34.64	1.009	1.009	210.11	105	22-176	0.593			
31	13C-1,2,3,7,8,9-HpCDF	5.91e5	0.51	NO	0.860	10.000	35.533	35.56	1.035	1.036	204.00	102	17-205	0.705			

1613 8290

Dataset: U:\VG12.PRO\Results\200701R1\200701R1_5.qld

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Printed: Thursday, July 02, 2020 09:46:25 Pacific Daylight Time

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32	13C-1,2,3,4,6,7,8-HpCDF	5.48e5	0.44	NO	0.774	10.000	37.256	37.33	1.085	1.088	209.99	105.21-158	0.360	40-135
33	13C-1,2,3,4,7,8,9-HpCDF	3.50e5	0.43	NO	0.521	10.000	39.291	39.29	1.145	1.145	199.47	99.7	20-186	0.535
34	13C-OCDF	8.35e5	0.85	NO	0.746	10.000	42.171	41.92	1.229	1.221	332.46	83.1	13-198	0.388
35	37Cl-2,3,7,8-TCDD	3.24e5			1.04	10.000	26.507	26.47	1.028	1.027	85.544	107	31-191	0.0412
36	13C-1,2,3,4-TCDD	7.30e5	0.80	NO	1.00	10.000	25.780	25.78	1.000	1.000	200.00	100		0.204
37	13C-1,2,3,4-TCDF	1.15e6	0.79	NO	1.00	10.000	24.070	24.09	1.000	1.000	200.00	100		0.317
38	13C-1,2,3,4,6,9-HxCDF	6.74e5	0.50	NO	1.00	10.000	34.340	34.32	1.000	1.000	200.00	100		0.606

Dataset: U:\VG12.PRO\Results\200701R1\200701R1_5.qld

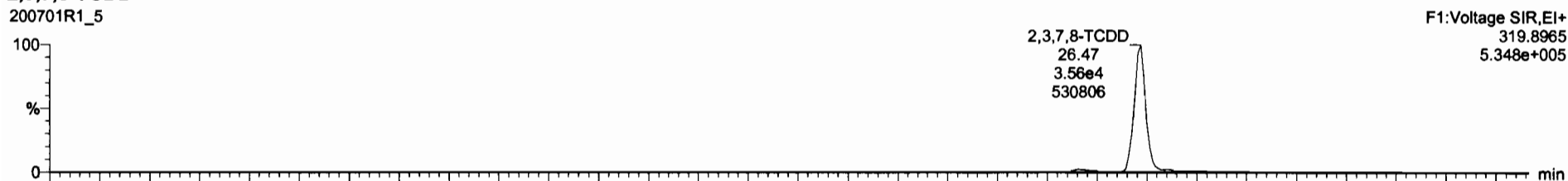
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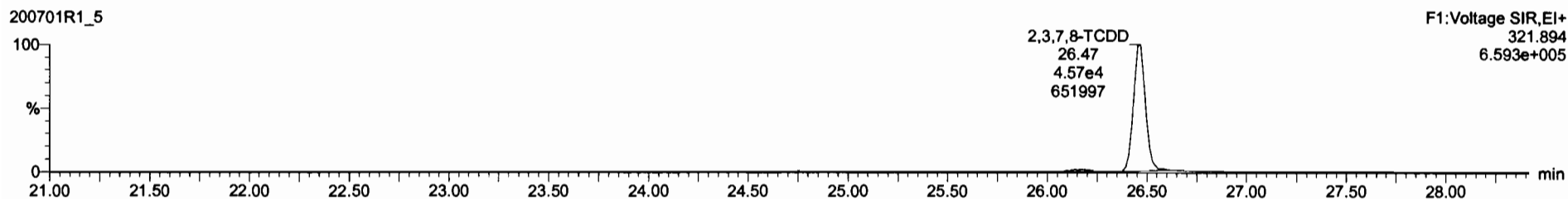
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2,3,7,8-TCDD

200701R1_5

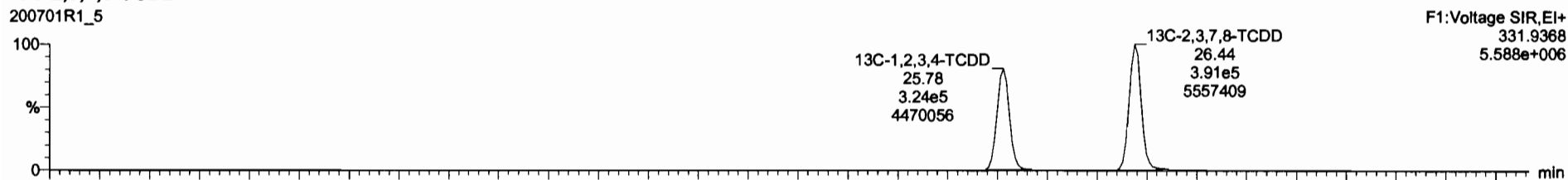


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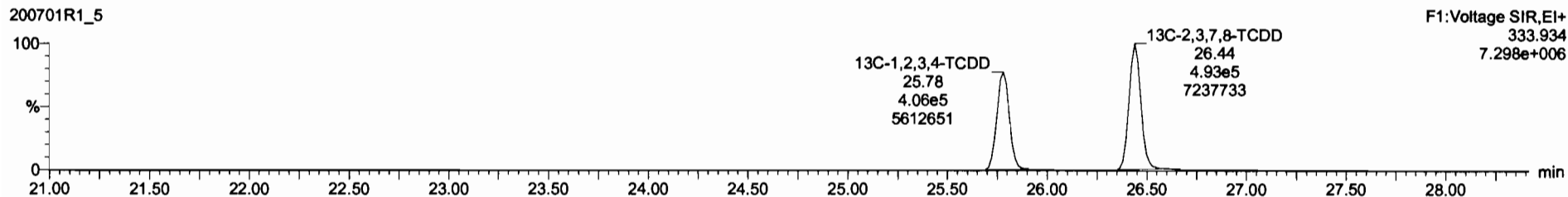


13C-2,3,7,8-TCDD

200701R1_5



200701R1_5



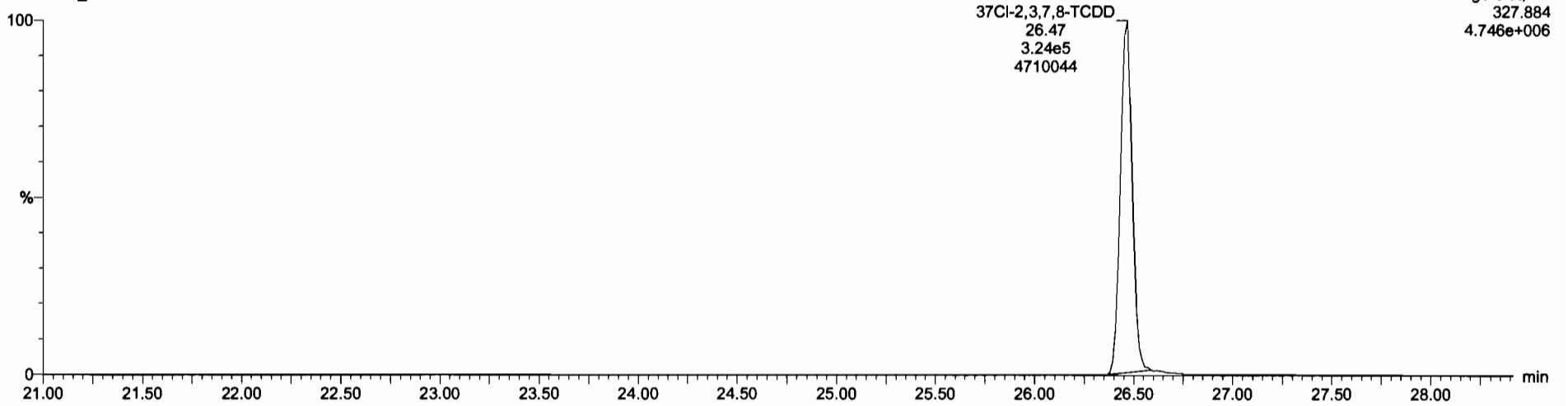
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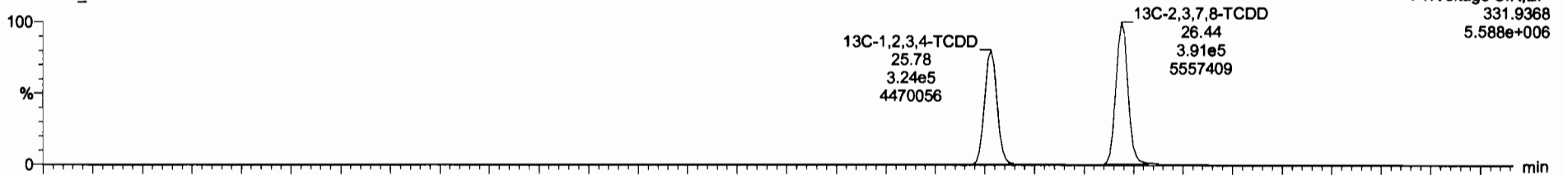
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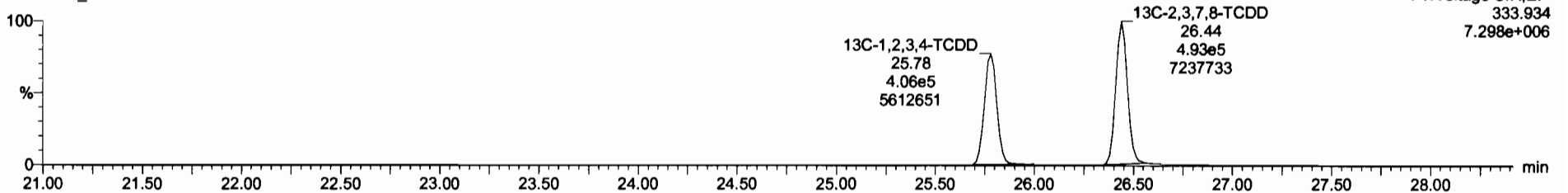


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200701R1_5



200701R1_5



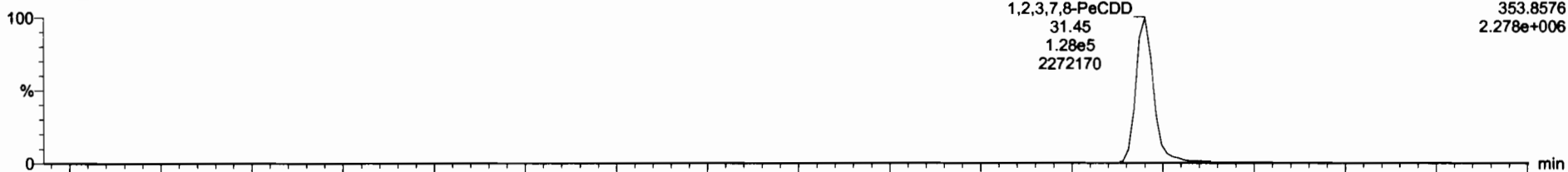
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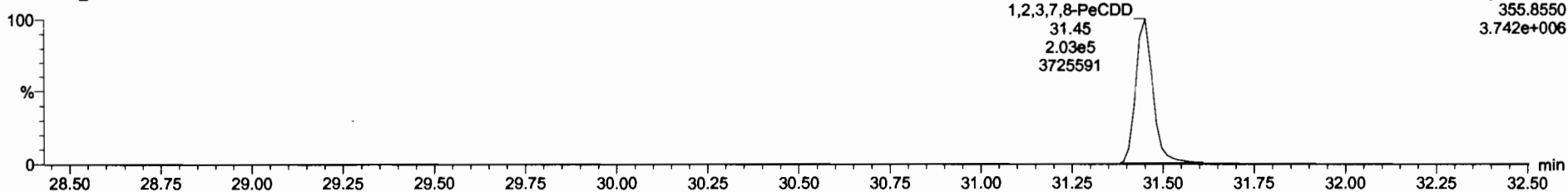
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1,2,3,7,8-PeCDD

200701R1_5

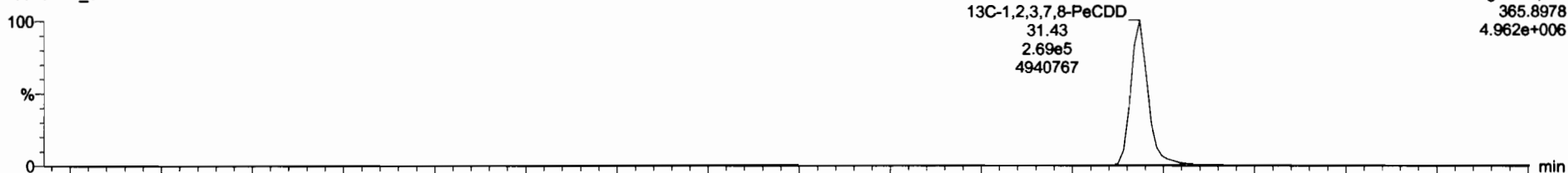


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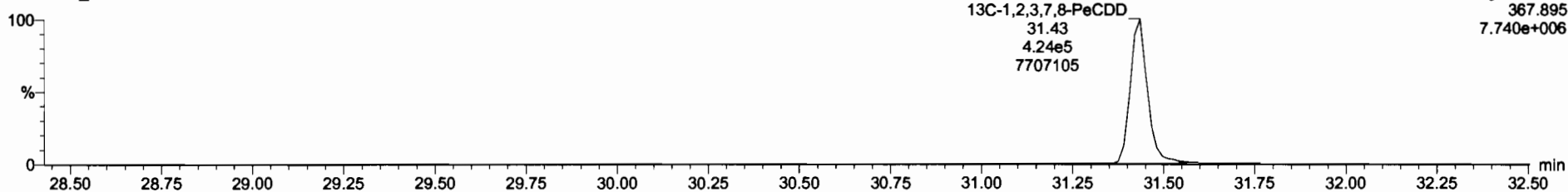


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200701R1_5



200701R1_5



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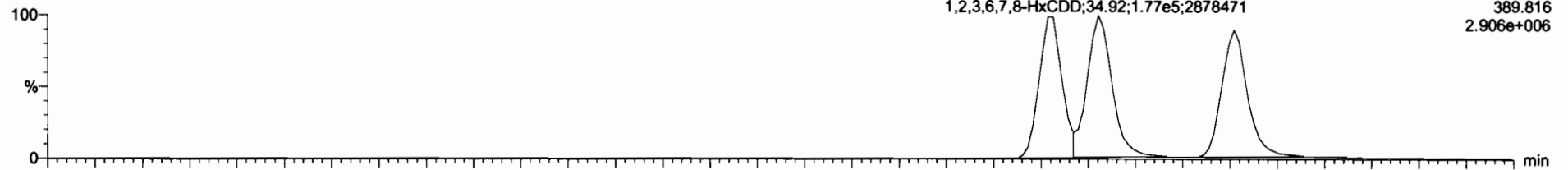
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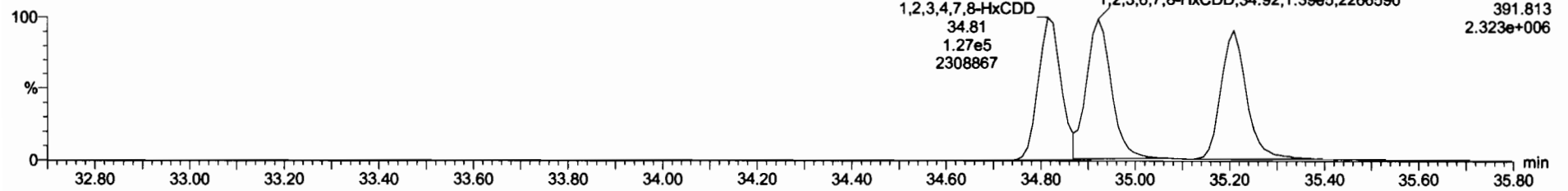
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1,2,3,4,7,8-HxCDD

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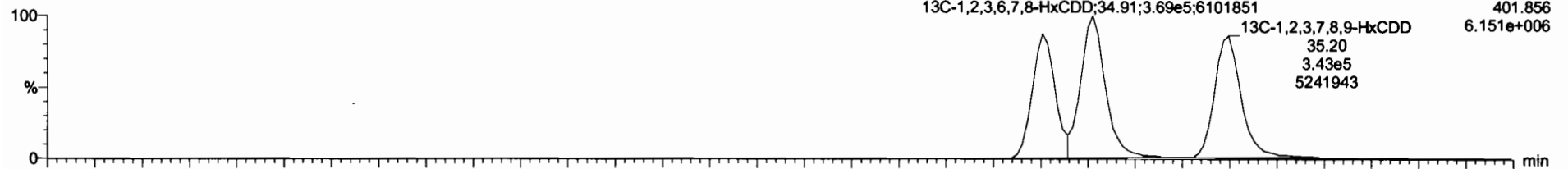


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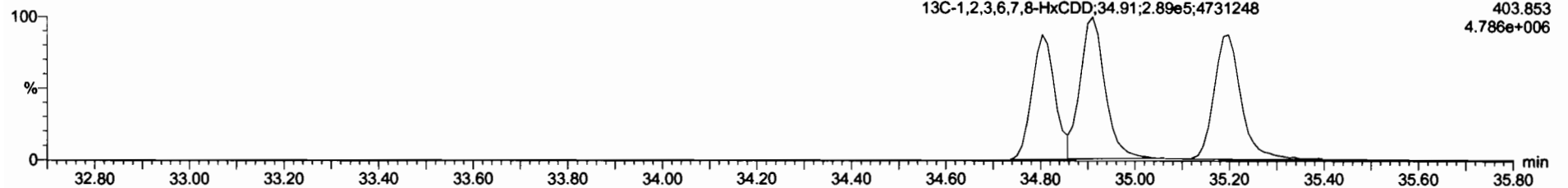


13C-1,2,3,4,7,8-HxCDD

200701R1_5



200701R1_5



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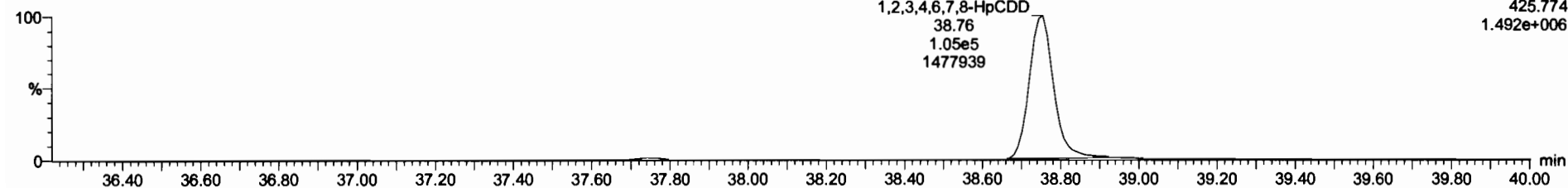
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1,2,3,4,6,7,8-HpCDD

200701R1_5



200701R1_5

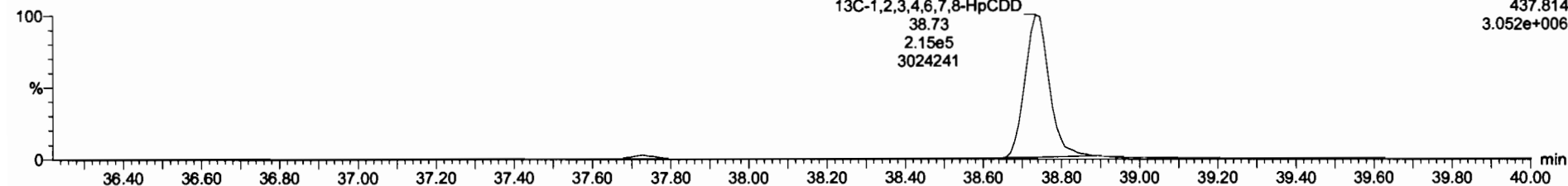


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200701R1_5



200701R1_5



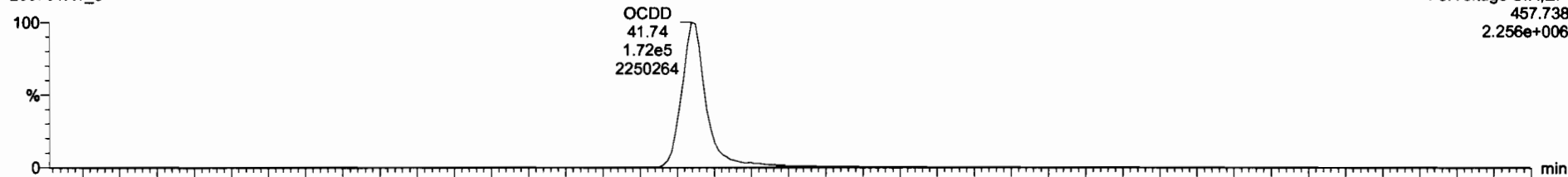
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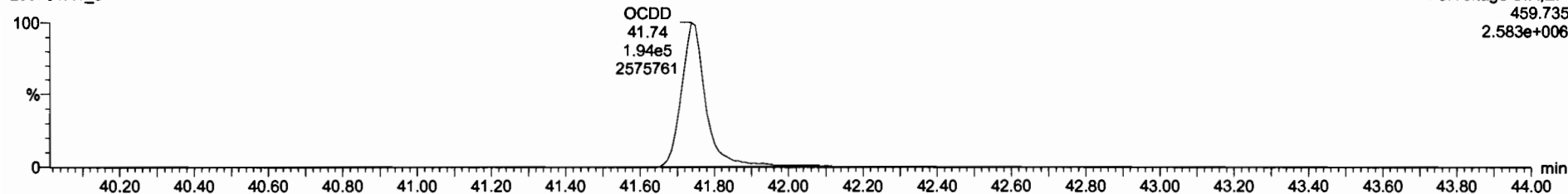
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OCDD

200701R1_5

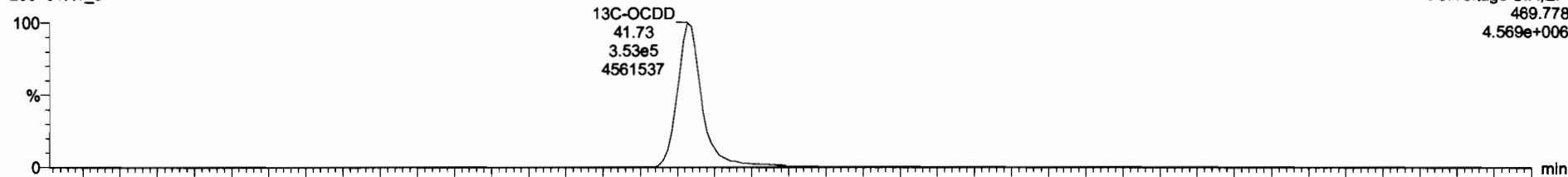


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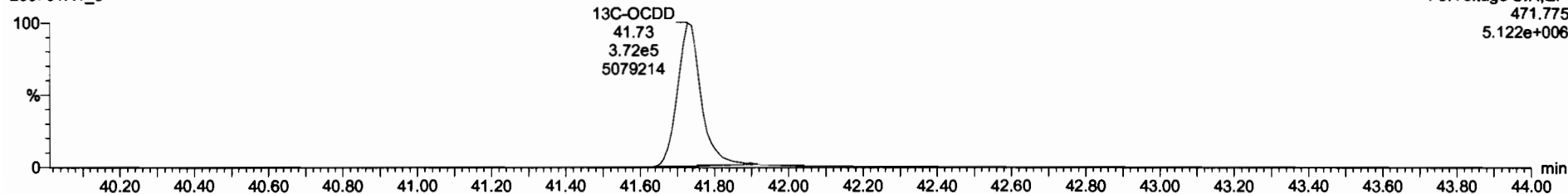


13C-OCDD

200701R1_5



200701R1_5



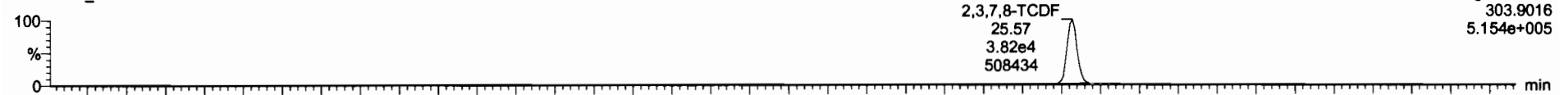
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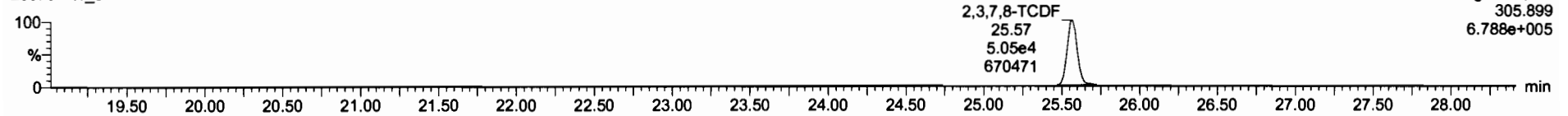
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2,3,7,8-TCDF

200701R1_5

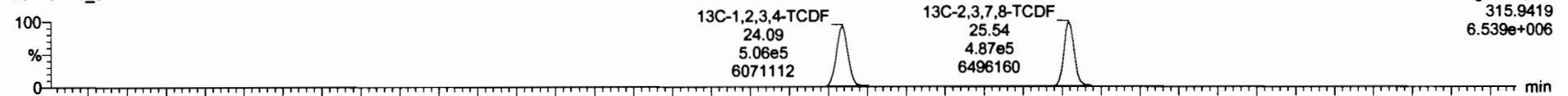


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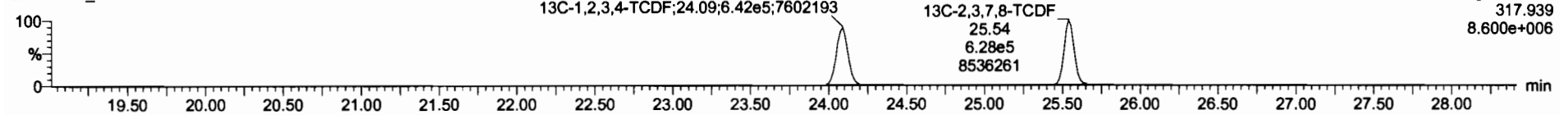


13C-2,3,7,8-TCDF

200701R1_5

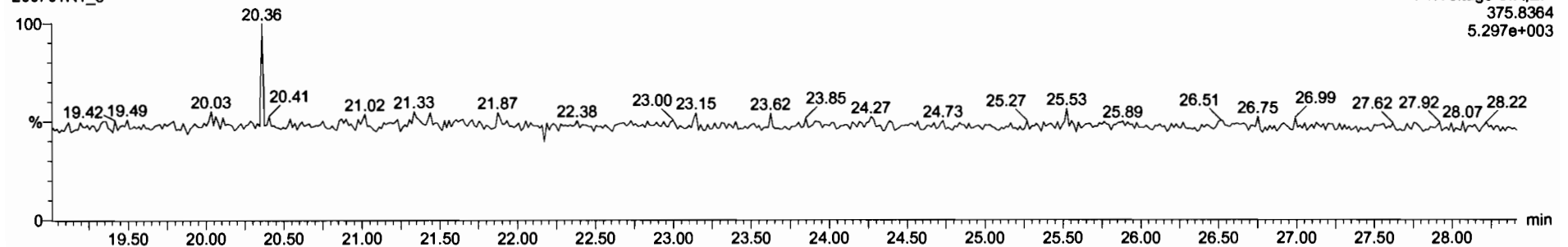


200701R1_5



DPE1

200701R1_5



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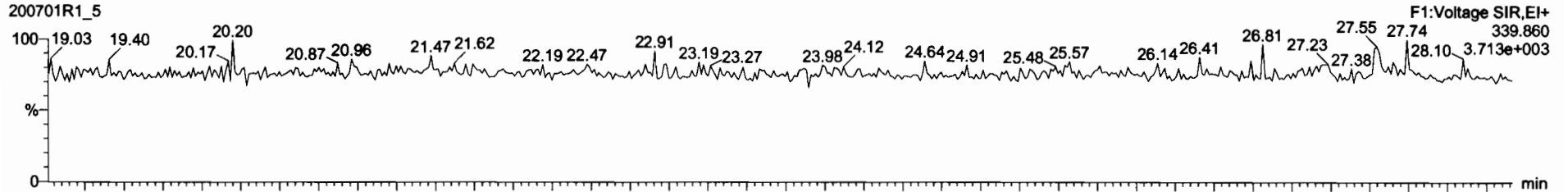
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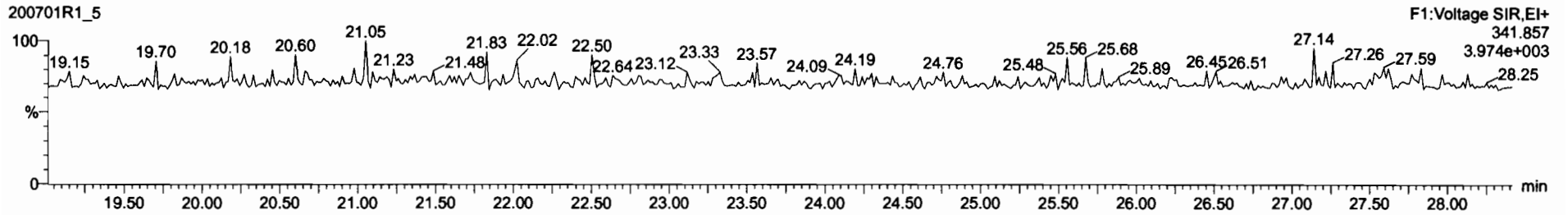
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200701R1_5

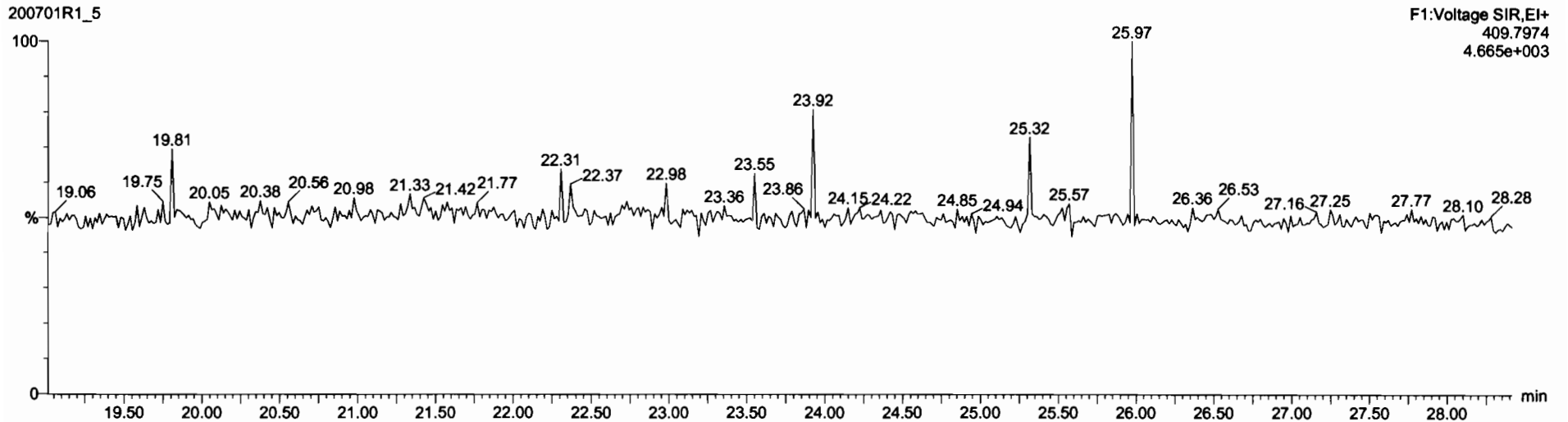


200701R1_5



DPE6

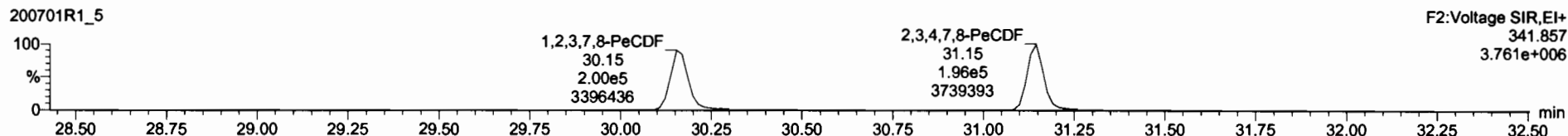
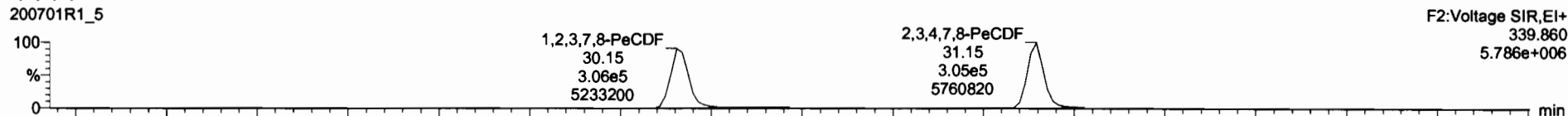
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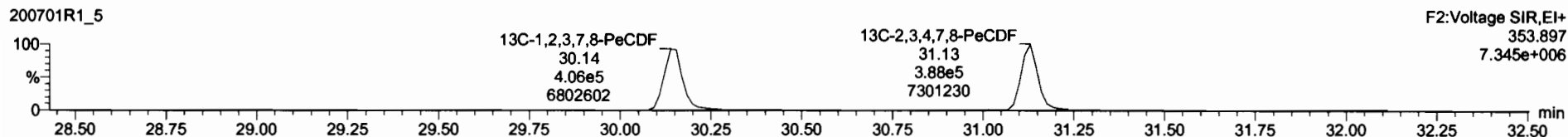
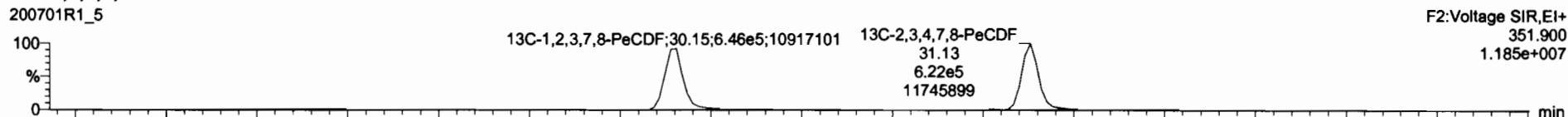
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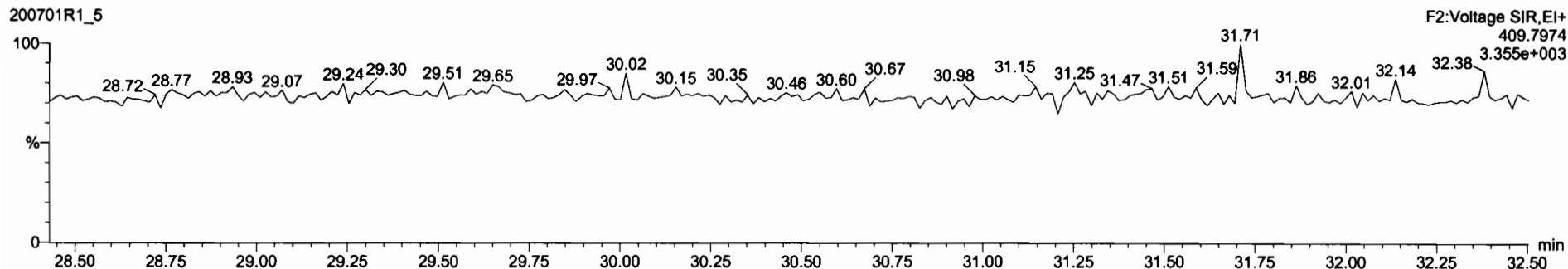
1,2,3,7,8-PeCDF



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



DPE2



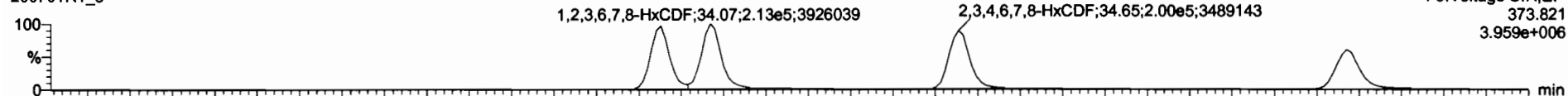
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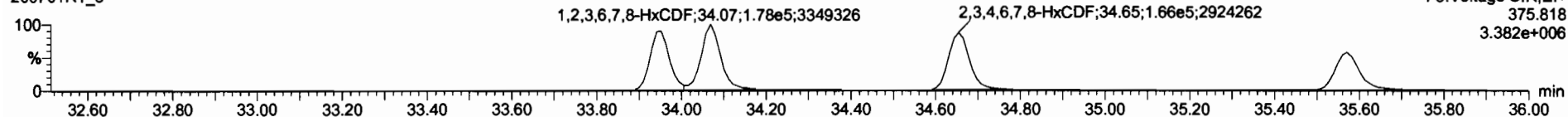
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1,2,3,4,7,8-HxCDF

200701R1_5

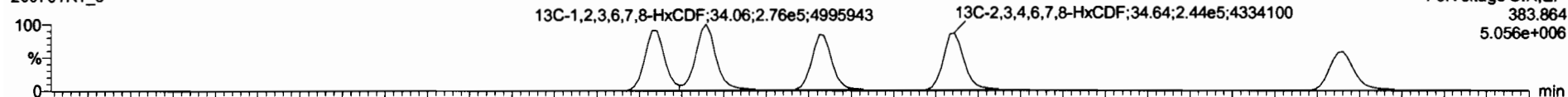


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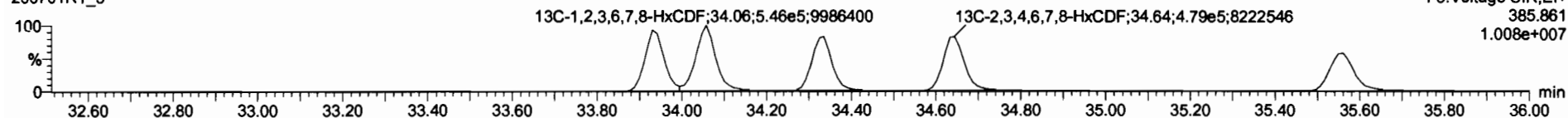


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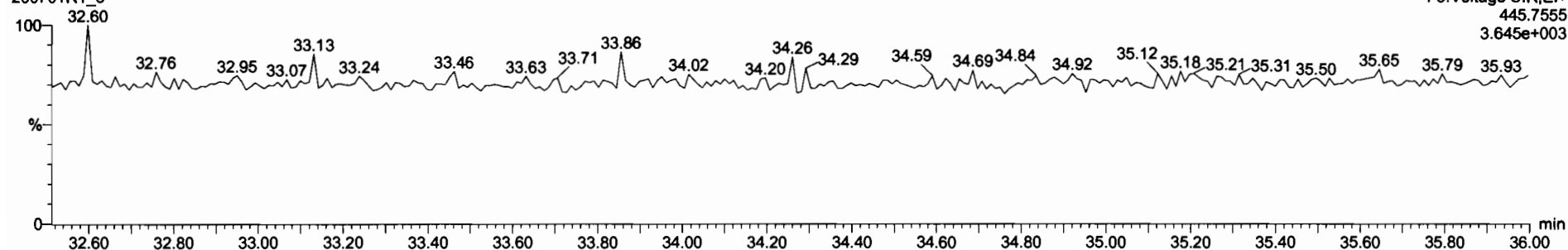


200701R1_5



DPE3

200701R1_5



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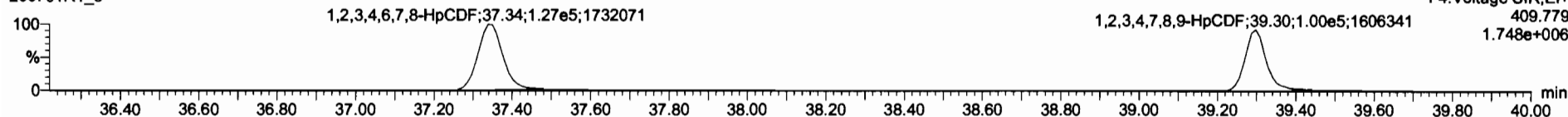
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200701R1_5



200701R1_5

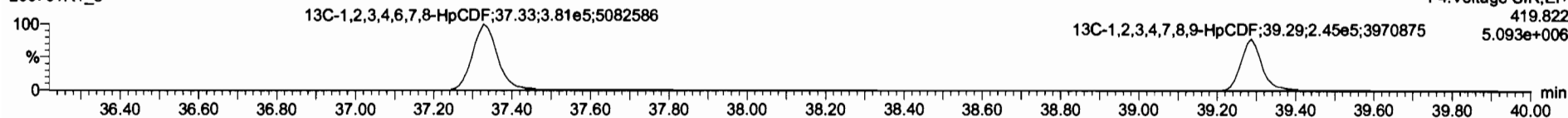


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200701R1_5

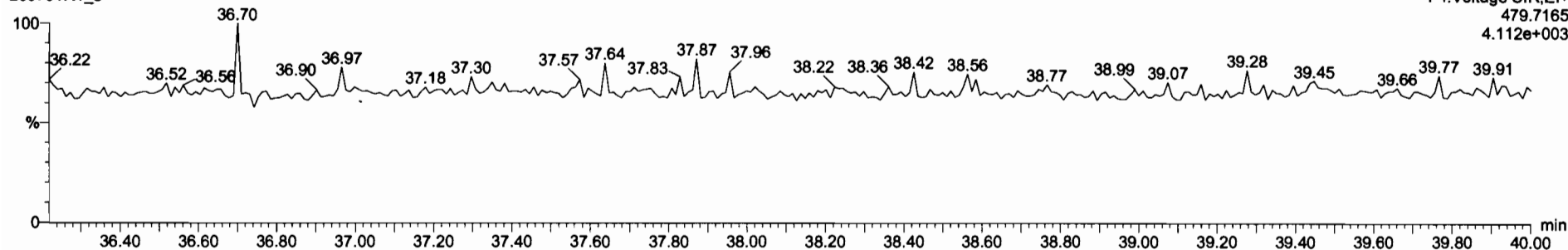


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DPE4

200701R1_5

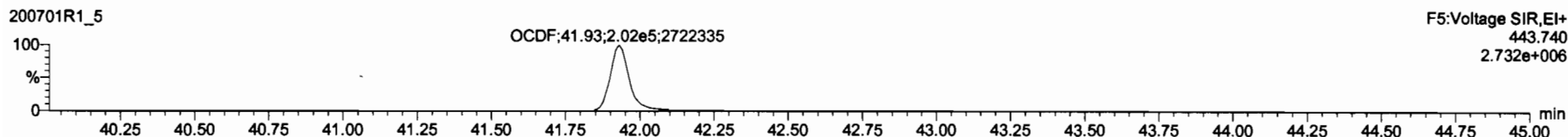
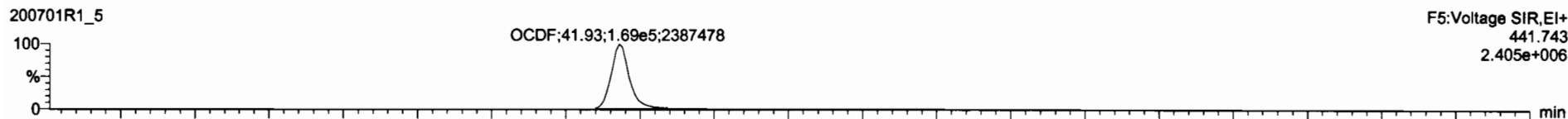


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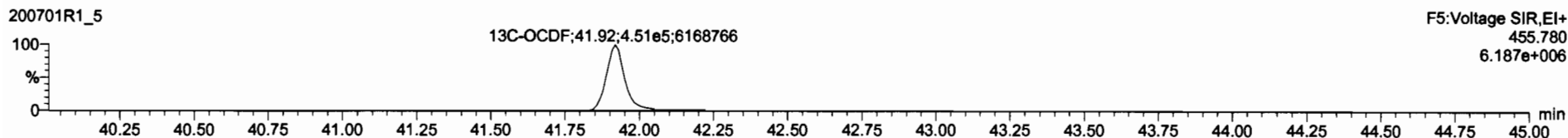
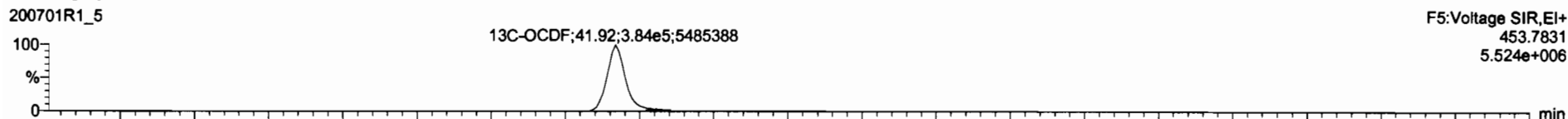
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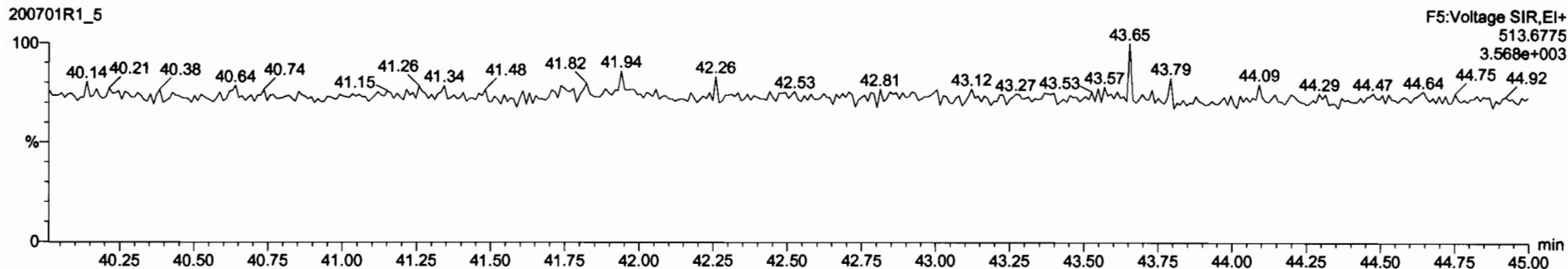
OCDF



13C-OCDF



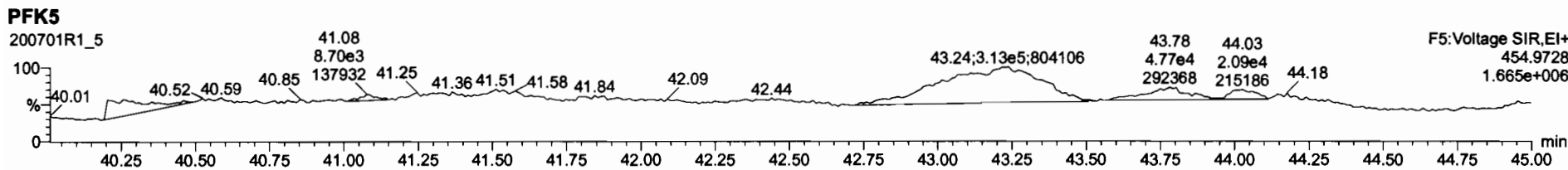
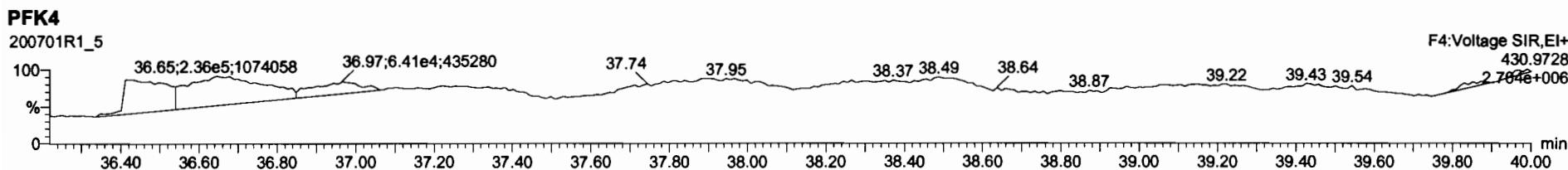
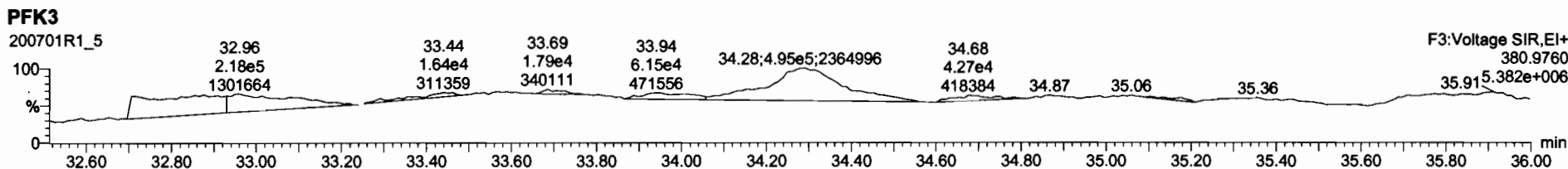
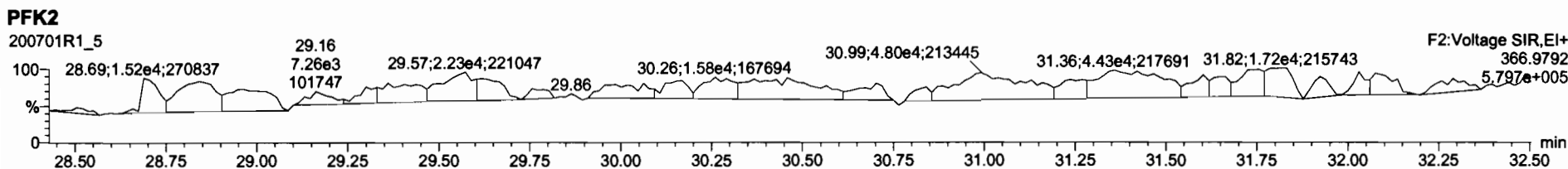
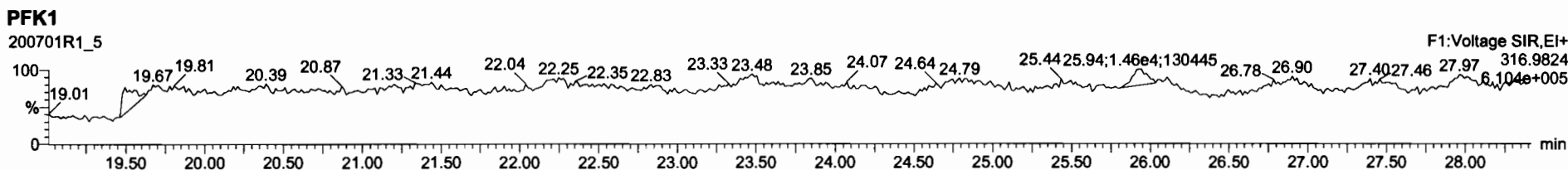
DPE5



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Printed: Thursday, July 02, 2020 12:44:13 Pacific Daylight Time

Name: 200701R1_5, Date: 01-Jul-2020, Time: 17:38:45, ID: B0F0227-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200601R3\200601R3-7.qld

Last Altered: Tuesday, June 02, 2020 10:35:54 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 10:36:27 Pacific Daylight Time

GRB 06/02/2020

C106/05/2020

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: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001

Peak #	Compound	Conc	Yield	Yield %	RT	Area	Area %	Height	Height %	Width	Width %	Height/Width	Area/Height	Area/Width
1	2,3,7,8-TCDD		NO	0.888	10.083	26.546	1.001						0.0526	
2	1,2,3,7,8-PeCDD		NO	0.908	10.083	31.488	1.001						0.131	
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.083	34.846	1.000						0.0857	
4	1,2,3,6,7,8-HxCDD		NO	0.892	10.083	34.943	1.000						0.0914	
5	1,2,3,7,8,9-HxCDD		NO	0.887	10.083	35.241	1.000						0.102	
6	1,2,3,4,6,7,8-HpCDD	3.09e3	1.02	NO	0.864	10.083	38.768	38.78	1.000	1.001	1.6817		0.116	1.68
7	OCDD	1.74e4	0.92	NO	0.914	10.083	41.749	41.76	1.000	1.000	11.325		0.154	11.3
8	2,3,7,8-TCDF		NO	0.751	10.083	25.641	1.001						0.0584	
9	1,2,3,7,8-PeCDF		NO	0.893	10.083	30.205	1.001						0.0549	
10	2,3,4,7,8-PeCDF		NO	0.935	10.083	31.192	1.001						0.0525	
11	1,2,3,4,7,8-HxCDF		NO	0.884	10.083	33.963	1.000						0.0692	
12	1,2,3,6,7,8-HxCDF		NO	0.889	10.083	34.090	1.000						0.0634	
13	2,3,4,6,7,8-HxCDF		NO	0.934	10.083	34.701	1.001						0.0674	
14	1,2,3,7,8,9-HxCDF		NO	0.871	10.083	35.592	1.000						0.0982	
15	1,2,3,4,6,7,8-HpCDF	4.20e2	0.82	YES	0.873	10.083	37.397	37.37	1.001	1.000	0.20274		0.107	0.179
16	1,2,3,4,7,8,9-HpCDF		NO	1.01	10.083	39.310	1.000						0.109	
17	OCDF	4.45e2	1.00	NO	0.806	10.083	41.940	41.94	1.000	1.000	0.27404		0.101	0.274
18	13C-2,3,7,8-TCDD	9.05e5	0.79	NO	1.16	10.083	26.538	26.51	1.026	1.025	177.79	89.6	0.169	
19	13C-1,2,3,7,8-PeCDD	6.54e5	0.64	NO	0.849	10.083	31.729	31.47	1.227	1.217	175.02	88.2	0.267	
20	13C-1,2,3,4,7,8-HxCDD	5.40e5	1.29	NO	0.779	10.083	34.841	34.84	1.014	1.014	171.12	86.3	0.276	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.28	NO	1.02	10.083	34.955	34.94	1.017	1.017	155.75	78.5	0.212	
22	13C-1,2,3,7,8,9-HxCDD	5.84e5	1.27	NO	0.903	10.083	35.226	35.23	1.025	1.025	159.77	80.5	0.238	
23	13C-1,2,3,4,6,7,8-HpCDD	4.21e5	1.05	NO	0.689	10.083	38.751	38.76	1.128	1.128	151.04	76.1	0.314	
24	13C-OCDD	6.68e5	0.89	NO	0.652	10.083	41.775	41.75	1.216	1.215	253.13	63.8	0.397	
25	13C-2,3,7,8-TCDF	1.26e6	0.77	NO	1.06	10.083	25.578	25.61	0.989	0.991	169.76	85.6	0.234	
26	13C-1,2,3,7,8-PeCDF	1.03e6	1.62	NO	0.838	10.083	30.111	30.18	1.165	1.167	175.62	88.5	0.480	
27	13C-2,3,4,7,8-PeCDF	9.87e5	1.62	NO	0.817	10.083	31.065	31.16	1.202	1.205	172.31	86.9	0.493	
28	13C-1,2,3,4,7,8-HxCDF	6.88e5	0.50	NO	1.01	10.083	33.972	33.96	0.989	0.989	168.67	85.0	0.465	
29	13C-1,2,3,6,7,8-HxCDF	7.59e5	0.51	NO	1.17	10.083	34.096	34.08	0.992	0.992	160.74	81.0	0.402	
30	13C-2,3,4,6,7,8-HxCDF	7.10e5	0.51	NO	1.02	10.083	34.670	34.67	1.009	1.009	171.56	86.5	0.459	
31	13C-1,2,3,7,8,9-HxCDF	5.83e5	0.51	NO	0.860	10.083	35.570	35.59	1.035	1.036	167.46	84.4	0.545	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-7.qld

Last Altered: Tuesday, June 02, 2020 10:35:54 Pacific Daylight Time
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Name: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001

	WY	RRF	MM	PE	RT	RRT							
32	13C-1,2,3,4,6,7,8-HpCDF	4.71e5	0.44	NO	0.774	10.083	37.319	37.36	1.086	1.087	150.17	75.7	0.372
33	13C-1,2,3,4,7,8,9-HpCDF	3.32e5	0.45	NO	0.521	10.083	39.349	39.31	1.145	1.144	157.28	79.3	0.554
34	13C-OCDF	7.99e5	0.92	NO	0.746	10.083	41.946	41.94	1.221	1.221	264.80	66.7	0.319
35	37Cl-2,3,7,8-TCDD	3.76e5			1.04	10.083	26.569	26.53	1.028	1.026	82.294	104	0.0742
36	13C-1,2,3,4-TCDD	8.73e5	0.80	NO	1.00	10.083	25.890	25.85	1.000	1.000	198.36	100	0.195
37	13C-1,2,3,4-TCDF	1.39e6	0.79	NO	1.00	10.083	24.360	24.18	1.000	1.000	198.36	100	0.248
38	13C-1,2,3,4,6,9-HxCDF	8.03e5	0.50	NO	1.00	10.083	34.420	34.36	1.000	1.000	198.36	100	0.469
39	Total Tetra-Dioxins				0.888	10.083	24.620		0.000		0.21219		0.0526 0.212
40	Total Penta-Dioxins				0.908	10.083	29.960		0.000		0.35018		0.131 0.350
41	Total Hexa-Dioxins				0.892	10.083	33.635		0.000		2.1257		0.0971 2.13
42	Total Hepta-Dioxins				0.864	10.083	37.640		0.000		4.2326		0.116 4.23
43	Total Tetra-Furans				0.751	10.083	23.610		0.000		0.00000		0.0325 0.501
44	1st Func. Penta-Furans				0.893	10.083	27.580		0.000				0.00718
45	Total Penta-Furans				0.893	10.083	29.275		0.000		0.14549		0.0550 0.145
46	Total Hexa-Furans				0.934	10.083	33.555		0.000		0.077435		0.0434 0.0774
47	Total Hepta-Furans				0.873	10.083	37.835		0.000		0.00000		0.0733 0.179

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-7.qld

Last Altered: Tuesday, June 02, 2020 10:35:54 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: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001

Tetra-Dioxins

	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height
Total Tetra-Dioxins	24.36	6.531e3	5.749e3	3.906e2	4.693e2	0.83	NO	8.599e2	0.21219	0.21219	0.0526	

Penta-Dioxins

	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height
Total Penta-Dioxins	29.25	5.360e3	5.956e3	2.451e2	4.144e2	0.59	NO	6.596e2	0.22030	0.22030	0.131	
Total Penta-Dioxins	29.74	2.849e3	5.812e3	1.382e2	2.507e2	0.55	NO	3.889e2	0.12988	0.12988	0.131	

Hexa-Dioxins

Total Hexa-Dioxins	33.35	2.459e4	2.367e4	1.301e3	1.074e3	1.21	NO	2.376e3	0.89789	0.89789	0.0971	
Total Hexa-Dioxins	33.91	1.350e4	1.206e4	8.407e2	5.898e2	1.43	NO	1.430e3	0.54066	0.54066	0.0971	
Total Hexa-Dioxins	34.18	1.476e4	1.183e4	1.053e3	7.655e2	1.37	NO	1.818e3	0.68714	0.68714	0.0971	

Hepta-Dioxins

Total Hepta-Dioxins	37.76	3.274e4	2.856e4	2.345e3	2.337e3	1.00	NO	4.682e3	2.5509	2.5509	0.116	
1,2,3,4,6,7,8-HpCDD	38.78	2.406e4	2.426e4	1.561e3	1.526e3	1.02	NO	3.086e3	1.6817	1.6817	0.116	

Tetra-Furans

Total Tetra-Furans	24.78	6.862e3	8.944e3	5.067e2	5.555e2	0.91	YES	0.000e0	0.00000	0.20595	0.0584	
Total Tetra-Furans	27.20	6.524e3	4.702e3	2.810e2	3.165e2	0.89	YES	0.000e0	0.00000	0.11733	0.0584	
Total Tetra-Furans	27.35	5.837e3	7.965e3	4.572e2	4.800e2	0.95	YES	0.000e0	0.00000	0.17794	0.0584	

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Name: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001

Penta-Furans function 1

Peak	Area	Height	Height	Area	Height	Height	Height	Height	Height	Height	Height
------	------	--------	--------	------	--------	--------	--------	--------	--------	--------	--------

Penta-Furans

Peak	Area	Height	Height	Area	Height	Height	Height	Height	Height	Height	Height
Total Penta-Furans	30.52	6.264e3	4.665e3	4.172e2	2.437e2	1.71	NO	6.610e2	0.14549	0.14549	0.0550

Hexa-Furans

Peak	Area	Height	Height	Area	Height	Height	Height	Height	Height	Height	Height
Total Hexa-Furans	32.95	3.038e3	2.155e3	1.334e2	1.164e2	1.15	NO	2.498e2	0.077435	0.077435	0.0434

Hepta-Furans

Peak	Area	Height	Height	Area	Height	Height	Height	Height	Height	Height	Height
1,2,3,4,6,7,8-HpCDF	37.37	3.489e3	3.803e3	1.895e2	2.308e2	0.82	YES	4.203e2	0.00000	0.17932	0.107

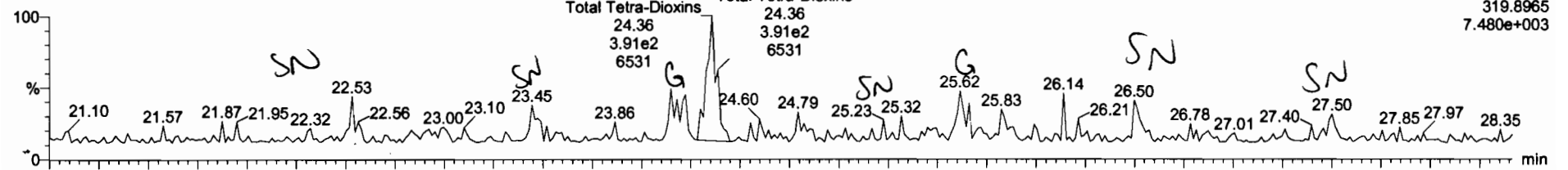
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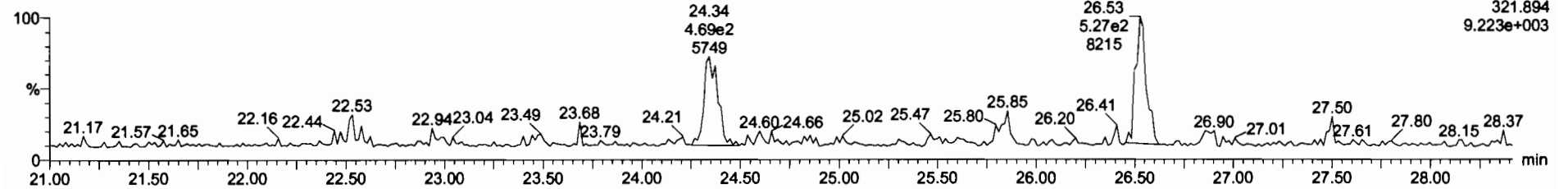
2,3,7,8-TCDD

200601R3_7



F1: Voltage SIR, EI+
319.8965
7.480e+003

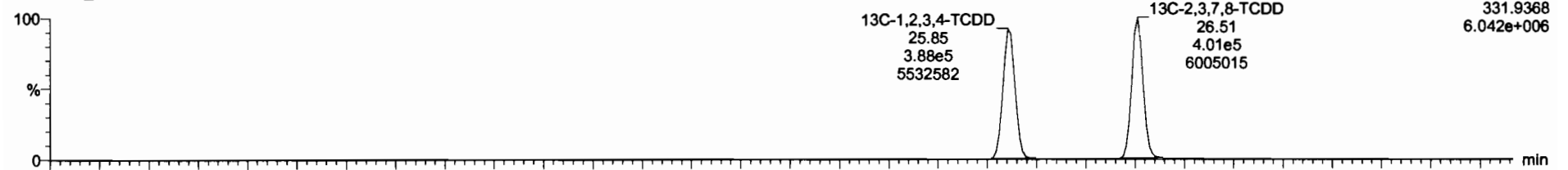
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321.894
9.223e+003

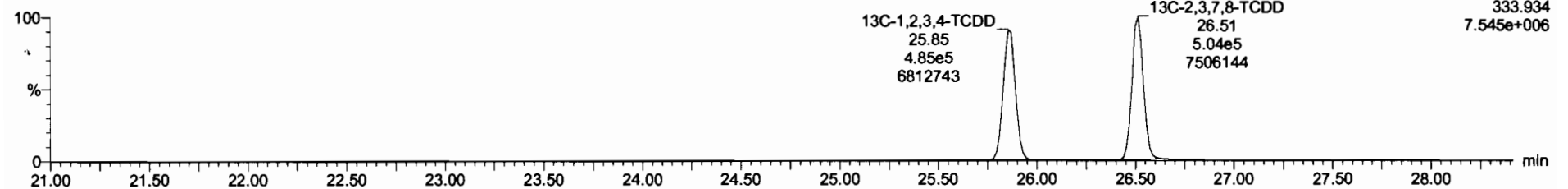
13C-2,3,7,8-TCDD

200601R3_7



F1: Voltage SIR, EI+
331.9368
6.042e+006

200601R3_7



F1: Voltage SIR, EI+
333.934
7.545e+006

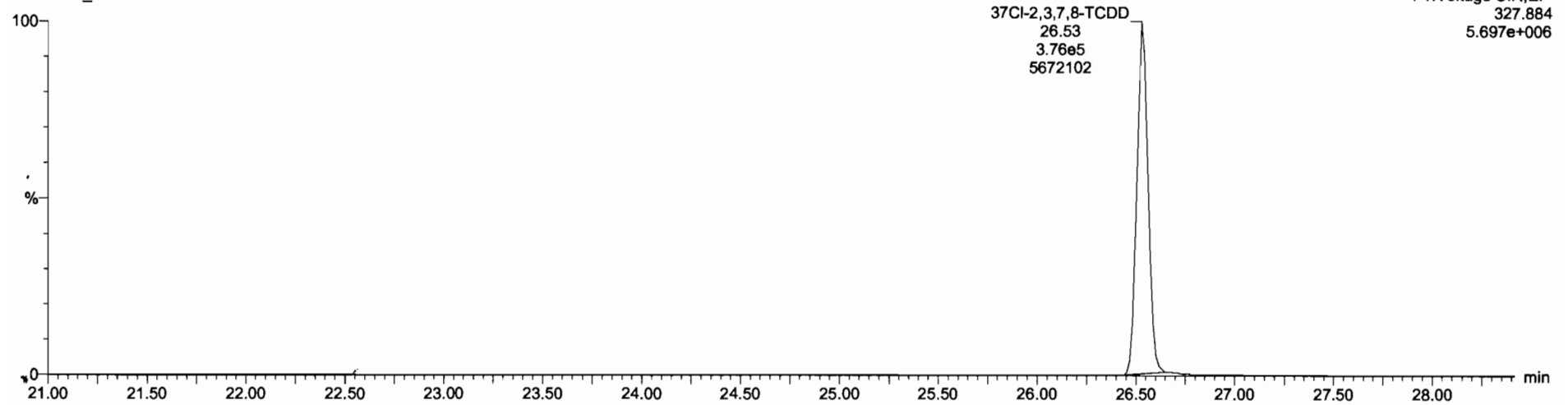
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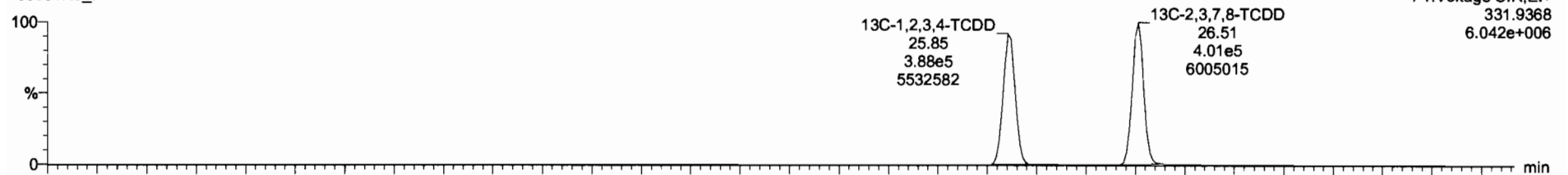
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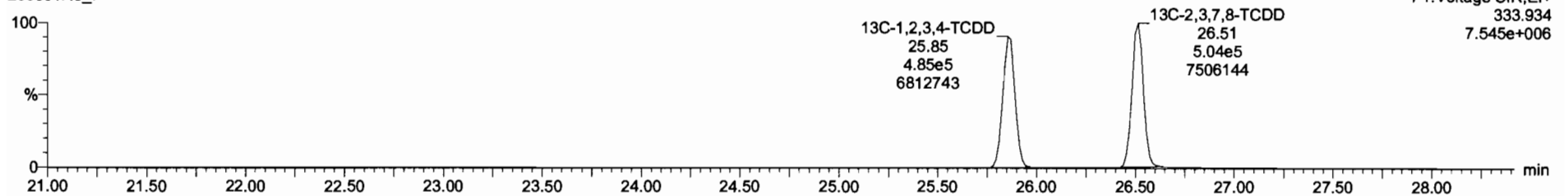


13C-1,2,3,4-TCDD

200601R3_7



200601R3_7



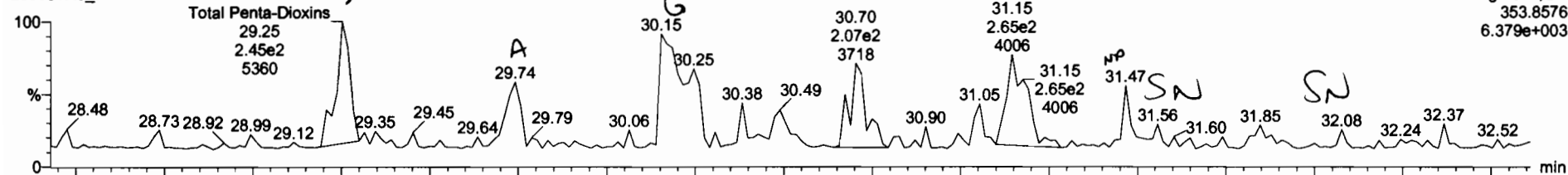
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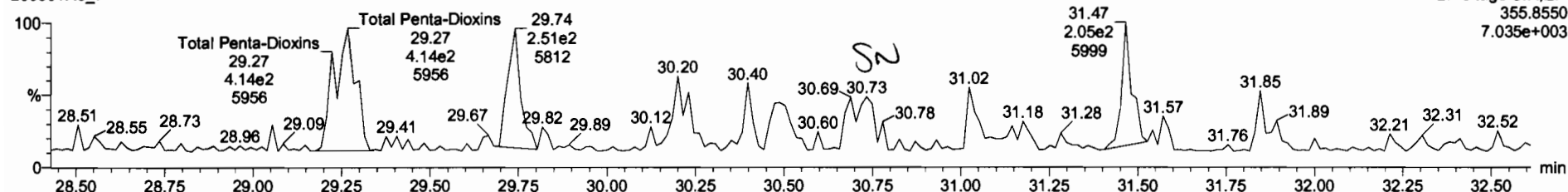
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1,2,3,7,8-PeCDD

200601R3_7

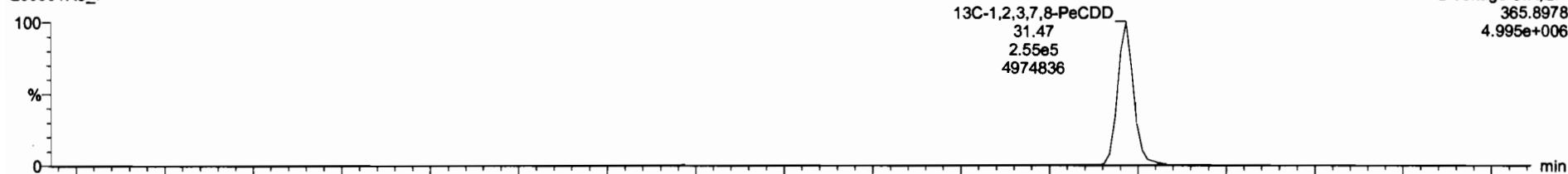


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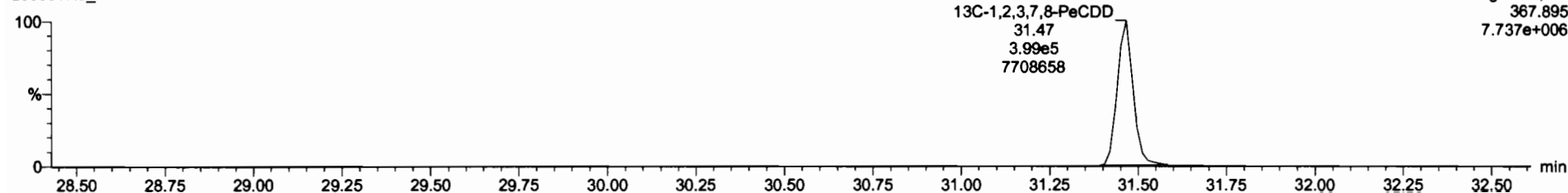


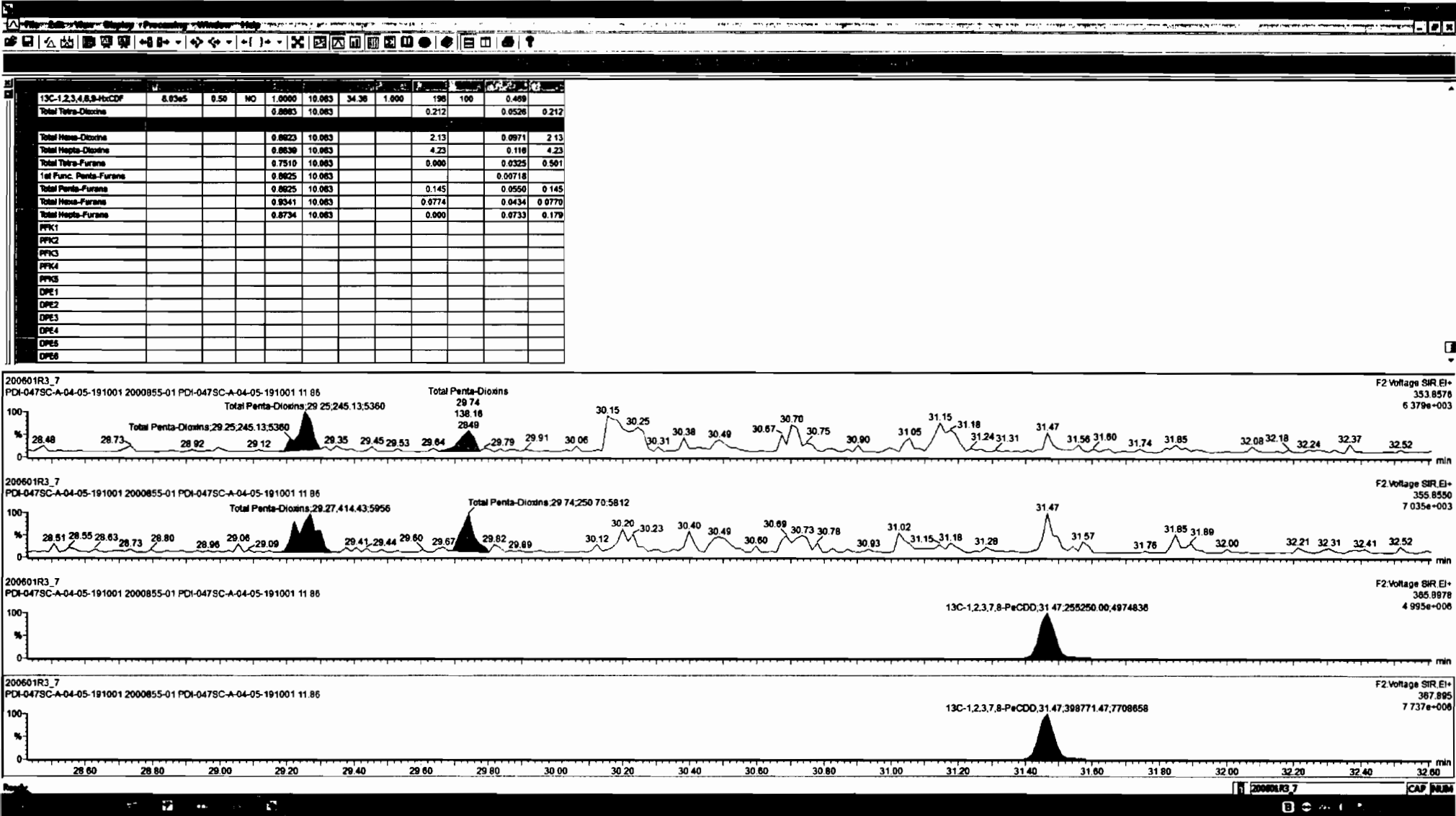
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200601R3_7



200601R3_7





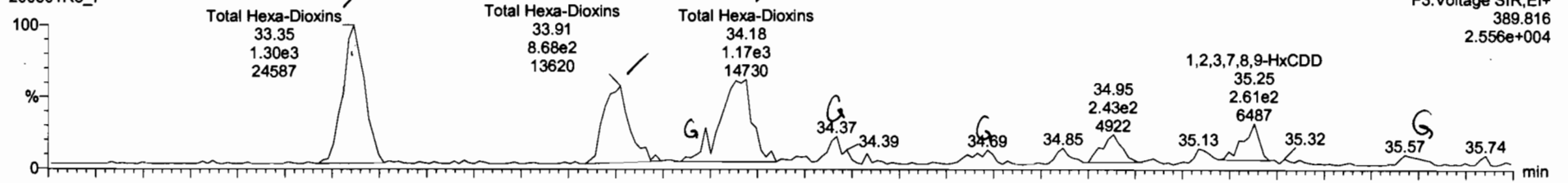
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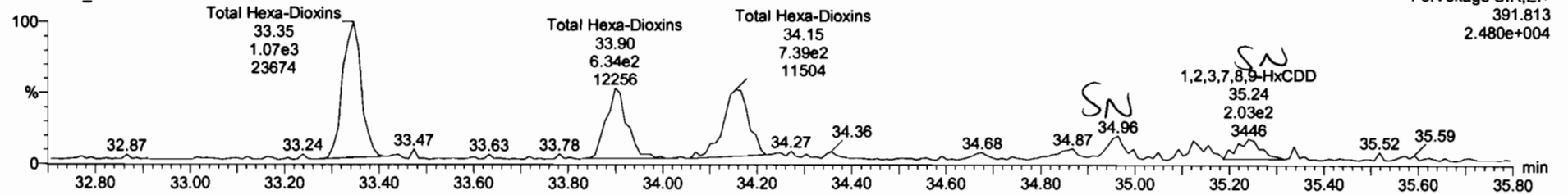
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1,2,3,4,7,8-HxCDD

200601R3_7

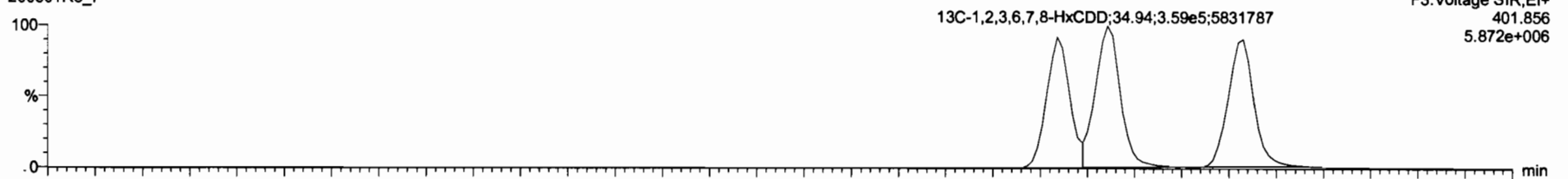


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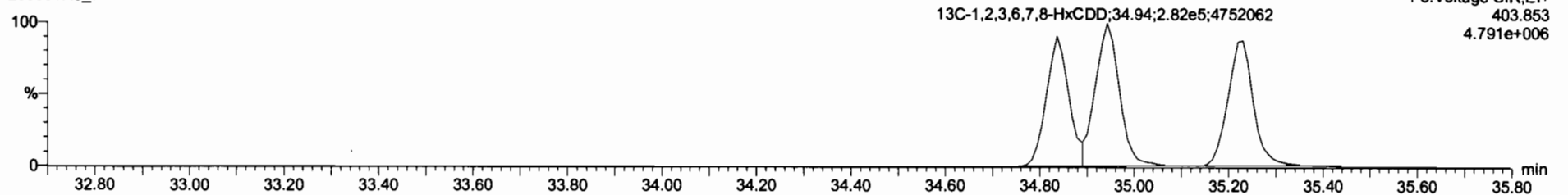


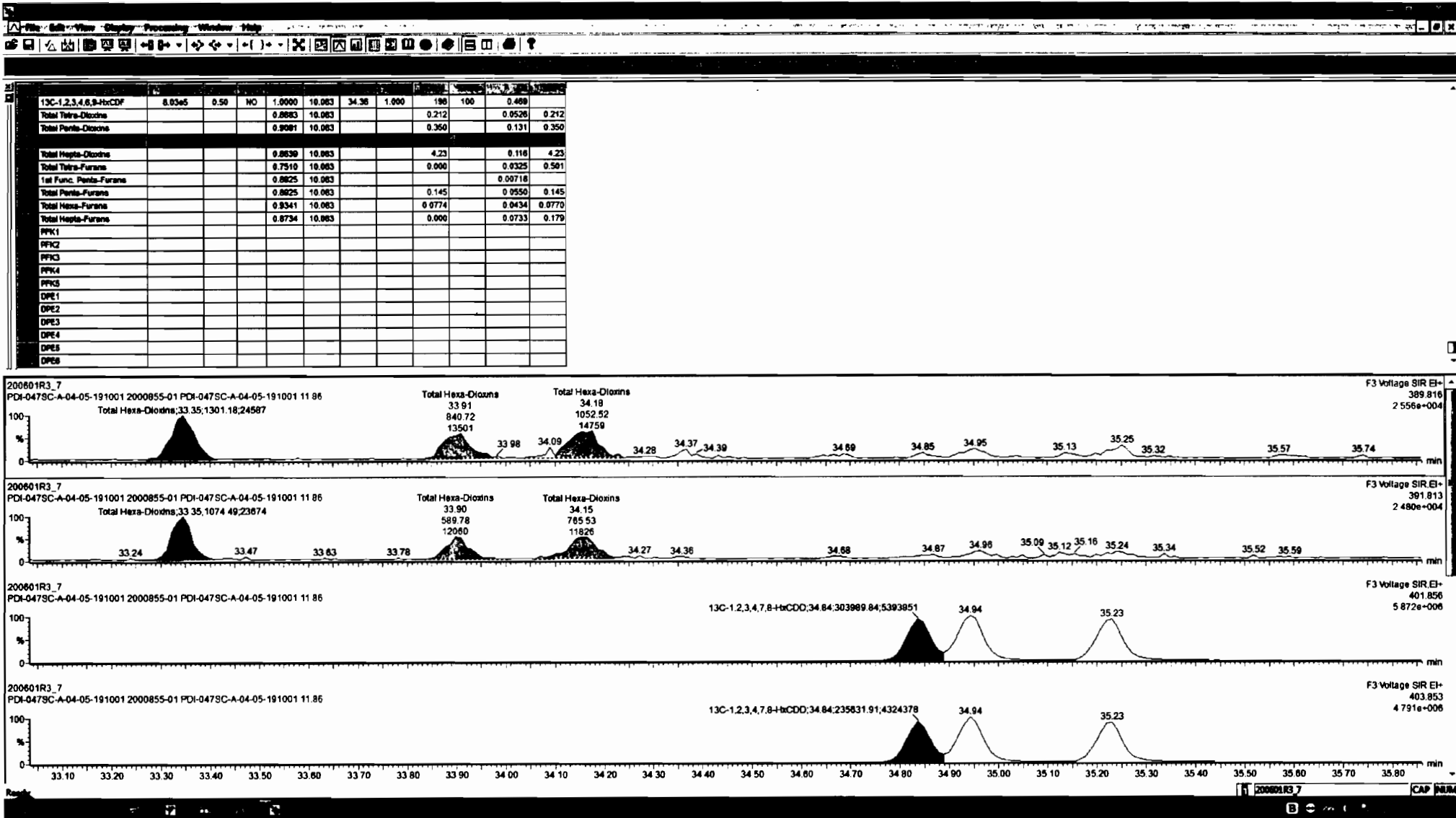
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200601R3_7



200601R3_7





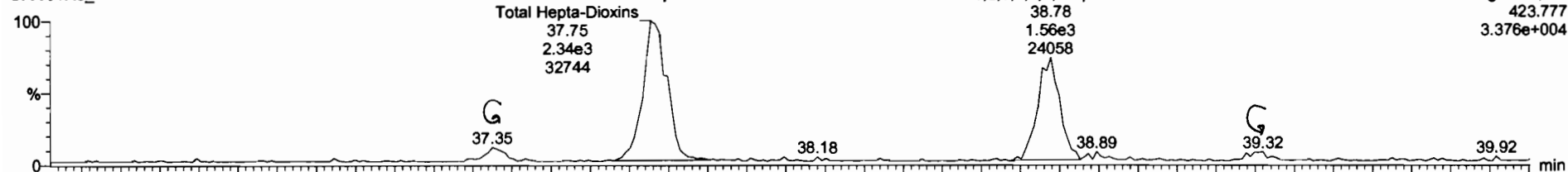
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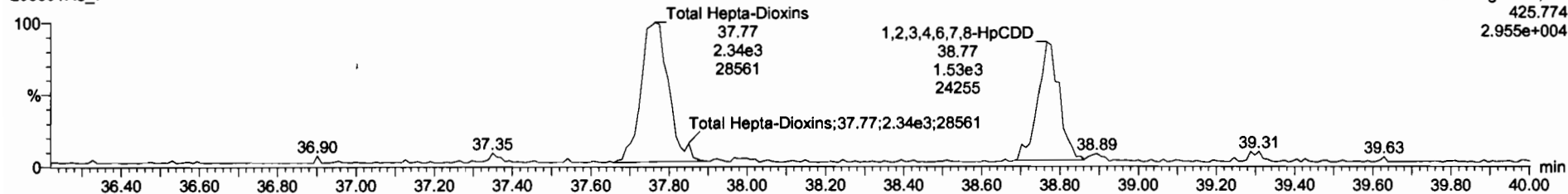
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1,2,3,4,6,7,8-HpCDD

200601R3_7

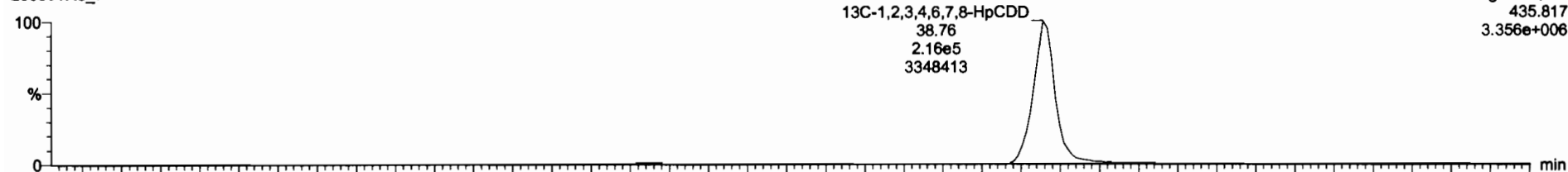


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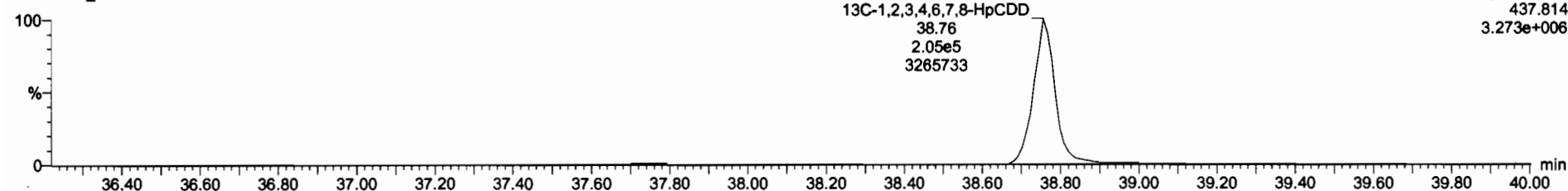


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200601R3_7



200601R3_7



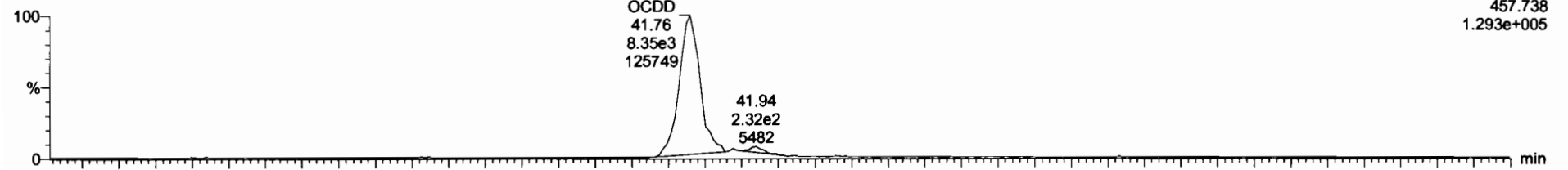
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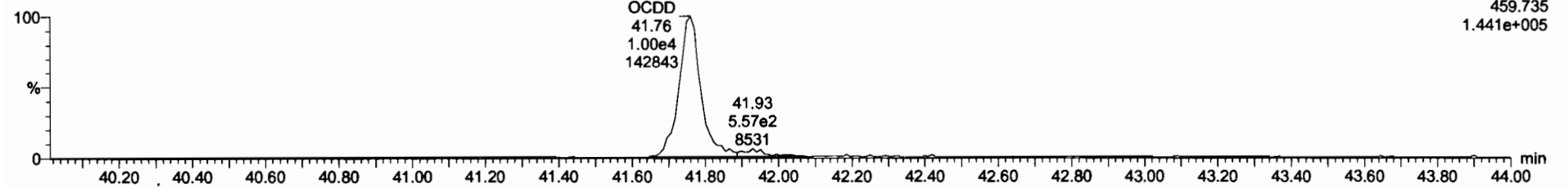
Name: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001

OCDD

200601R3_7

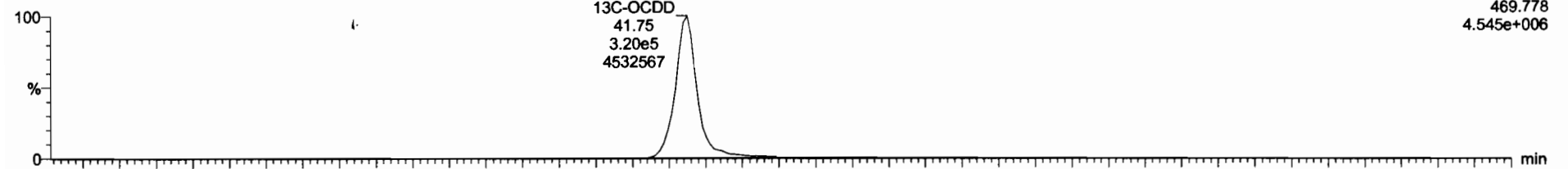


200601R3_7

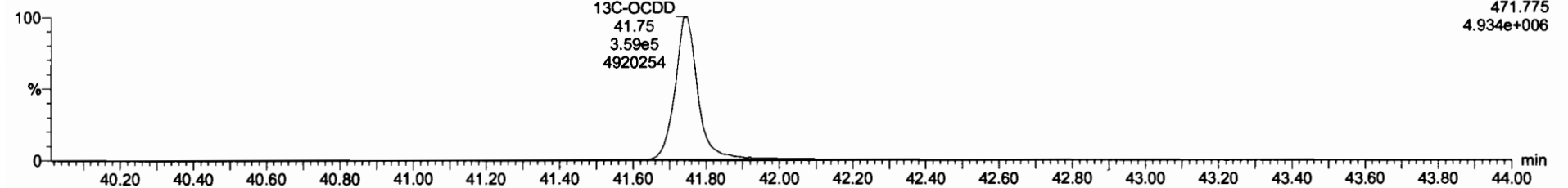


13C-OCDD

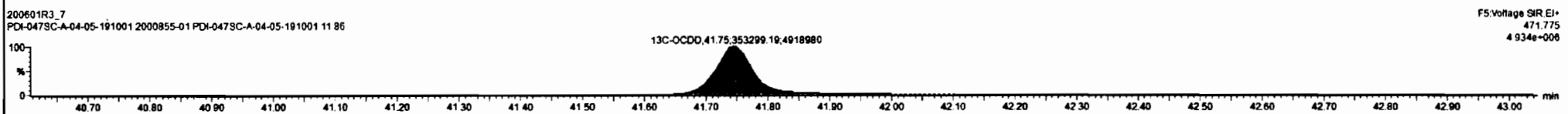
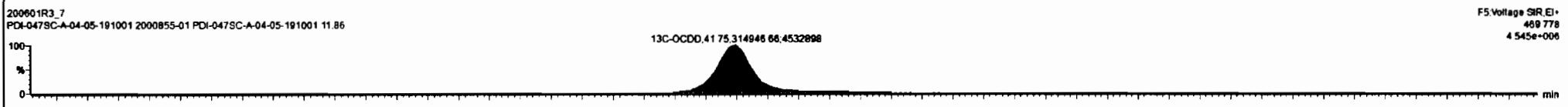
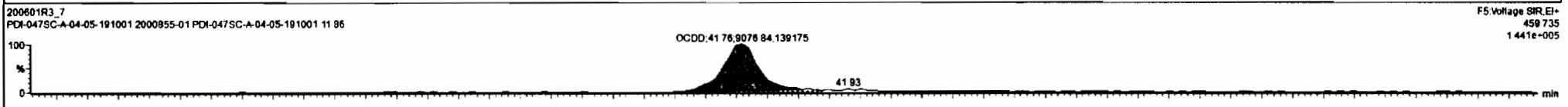
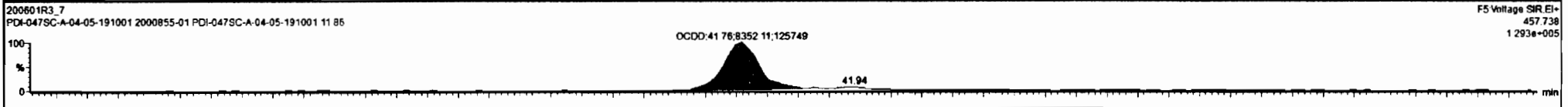
200601R3_7



200601R3_7



2,3,7,8-TCDF			NO	0.7510	10.063															0.0584	
1,2,3,7,8-PeCDF			NO	0.8925	10.063																0.0549
2,3,4,7,8-PeCDF			NO	0.9348	10.063																0.0525
1,2,3,4,7,8-HxCDF			NO	0.8845	10.063																0.0692
1,2,3,6,7,8-HxCDF			NO	0.8982	10.063																0.0634
2,3,4,6,7,8-HxCDF			NO	0.9341	10.063																0.0674
1,2,3,7,8,9-HxCDF			NO	0.8797	10.063																0.0982
1,2,3,4,6,7,8-HpCDF	4.29e2	0.82	YES	0.8734	10.063	37.37	1.000	0.203													0.107 0.179
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.063																0.109
OCDF	4.45e2	1.00	NO	0.8065	10.063	41.94	1.000	0.274													0.101 0.274
13C-2,3,7,8-TCDD	9.05e5	0.79	NO	1.1583	10.063	28.51	1.028	178	89.6												0.189
13C-1,2,3,7,8-PeCDD	6.54e5	0.64	NO	0.8490	10.063	31.47	1.217	175	88.2												0.267
13C-1,2,3,4,7,8-HxCDD	5.40e5	1.29	NO	0.7790	10.063	34.84	1.014	171	86.3												0.278
13C-1,2,3,6,7,8-HxCDD	6.41e5	1.28	NO	1.0187	10.063	34.94	1.017	196	78.5												0.212
13C-1,2,3,7,8,9-HxCDD	5.84e5	1.27	NO	0.8627	10.063	35.23	1.025	190	80.5												0.238
13C-1,2,3,4,6,7,8-HpCDD	4.21e5	1.05	NO	0.8882	10.063	38.78	1.128	151	78.1												0.314
13C-OCDD	6.68e5	0.89	NO	0.8521	10.063	41.75	1.215	253	63.8												0.397
13C-2,3,7,8-TCDF	1.26e6	0.77	NO	1.0580	10.063	25.61	0.991	170	85.6												0.234
13C-1,2,3,7,8-PeCDF	1.93e6	1.82	NO	0.8390	10.063	30.18	1.167	178	88.5												0.480
13C-2,3,4,7,8-PeCDF	9.87e5	1.82	NO	0.8188	10.063	31.16	1.205	172	86.9												0.493



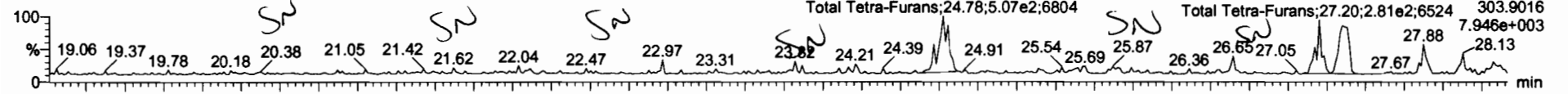
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

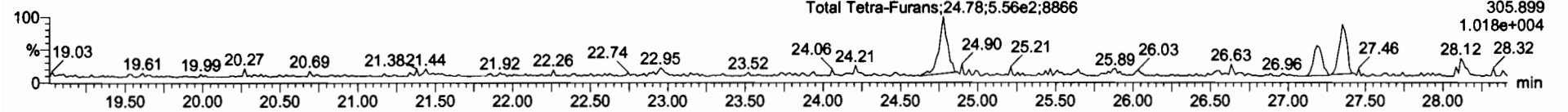
Name: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001

2,3,7,8-TCDF

200601R3_7

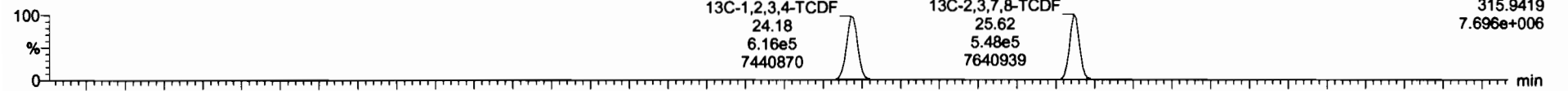


200601R3_7

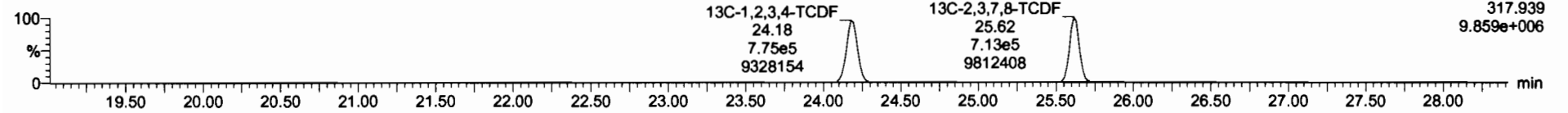


13C-2,3,7,8-TCDF

200601R3_7

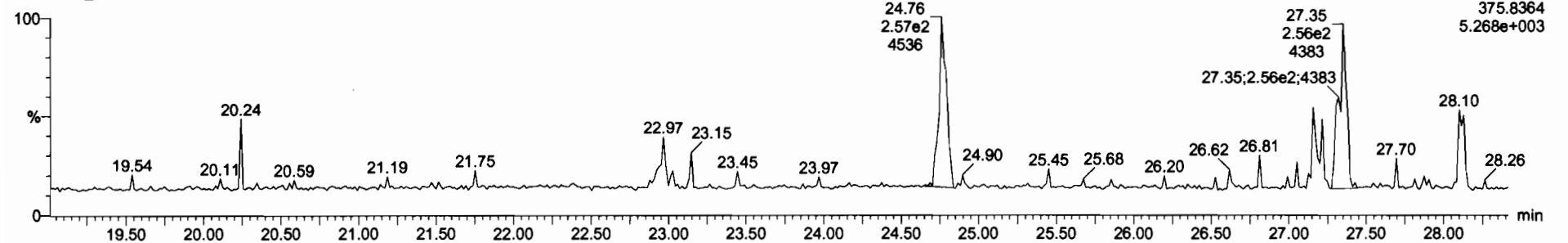


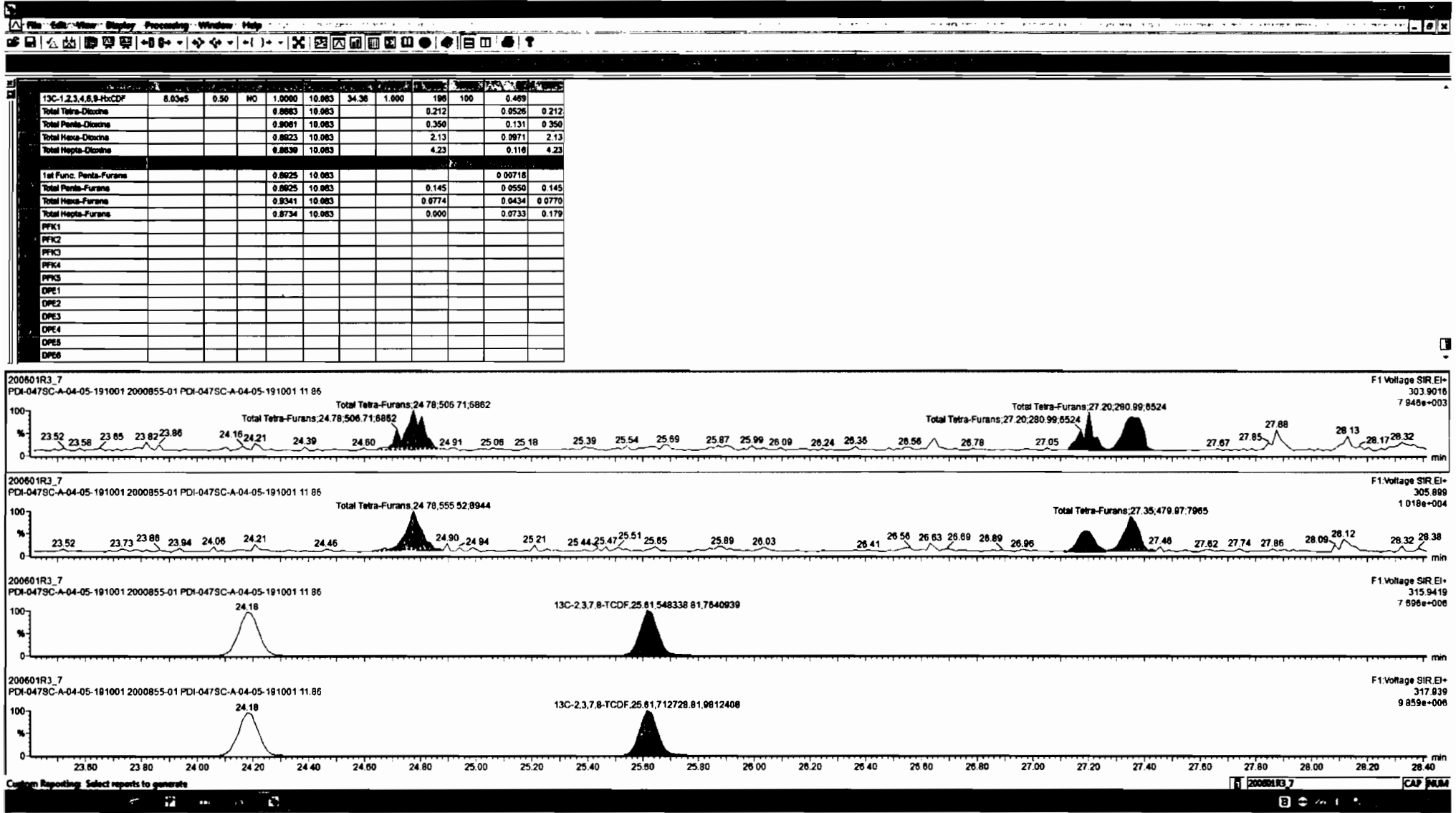
200601R3_7



DPE1

200601R3_7





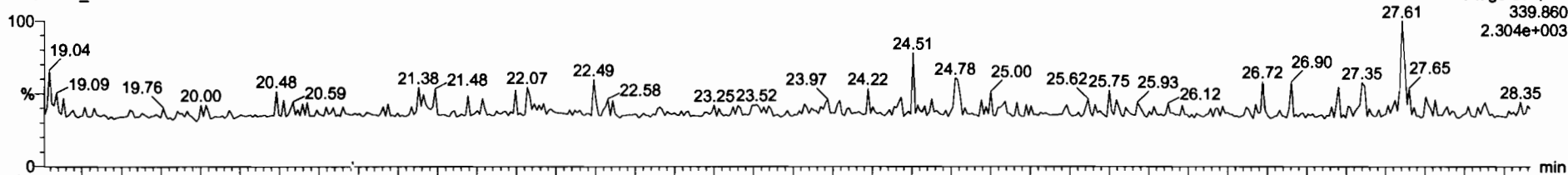
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001

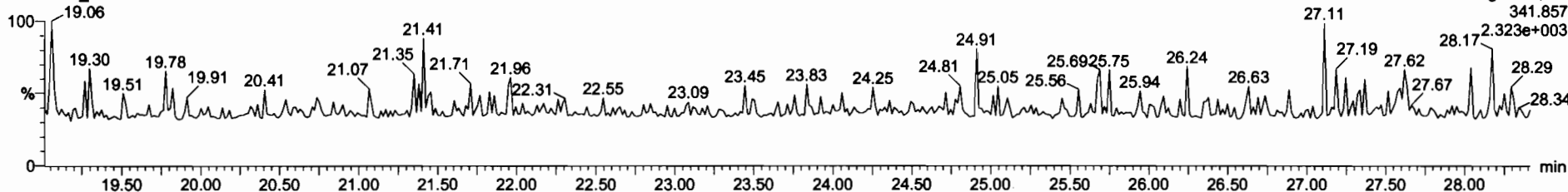
1st Func. Penta-Furans

200601R3_7



F1:Voltage SIR,EI+
339.860
2.304e+003

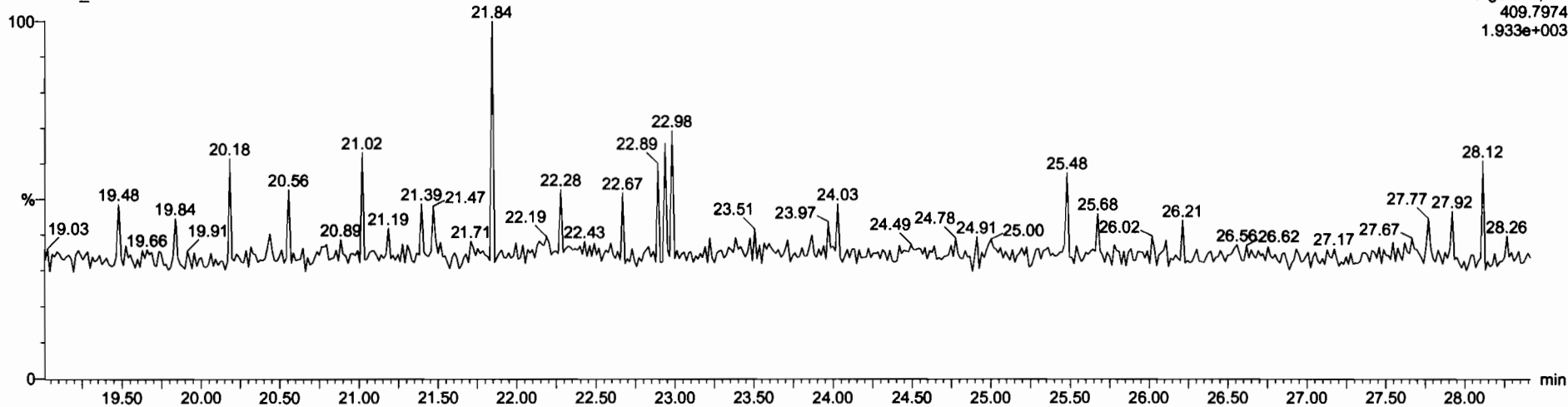
200601R3_7



F1:Voltage SIR,EI+
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2.323e+003

DPE6

200601R3_7



F1:Voltage SIR,EI+
409.7974
1.933e+003

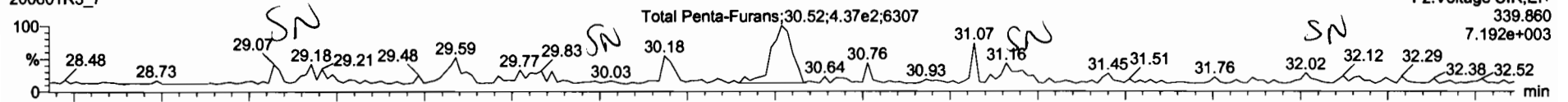
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

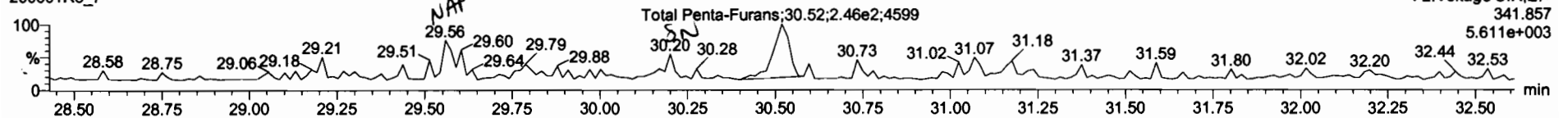
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1,2,3,7,8-PeCDF

200601R3_7

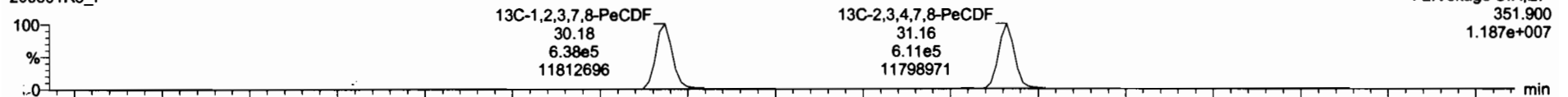


200601R3_7

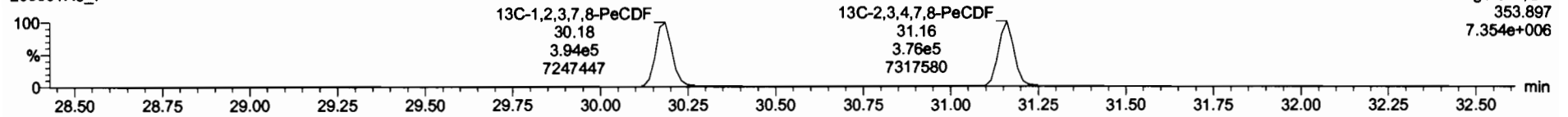


13C-1,2,3,7,8-PeCDF

200601R3_7

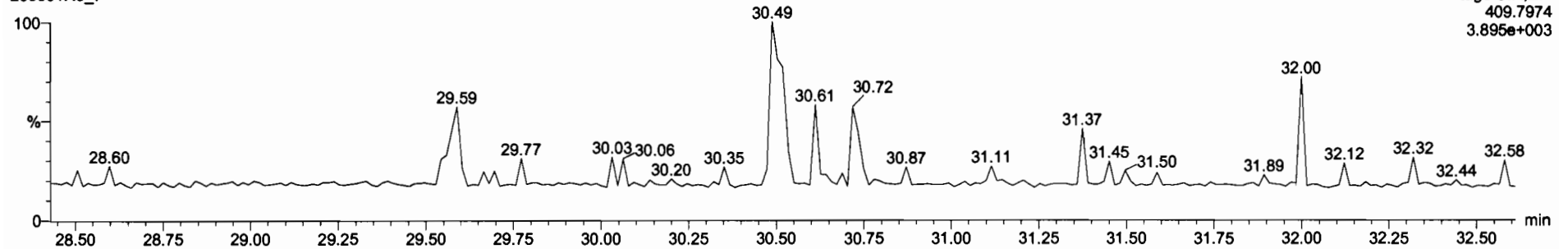


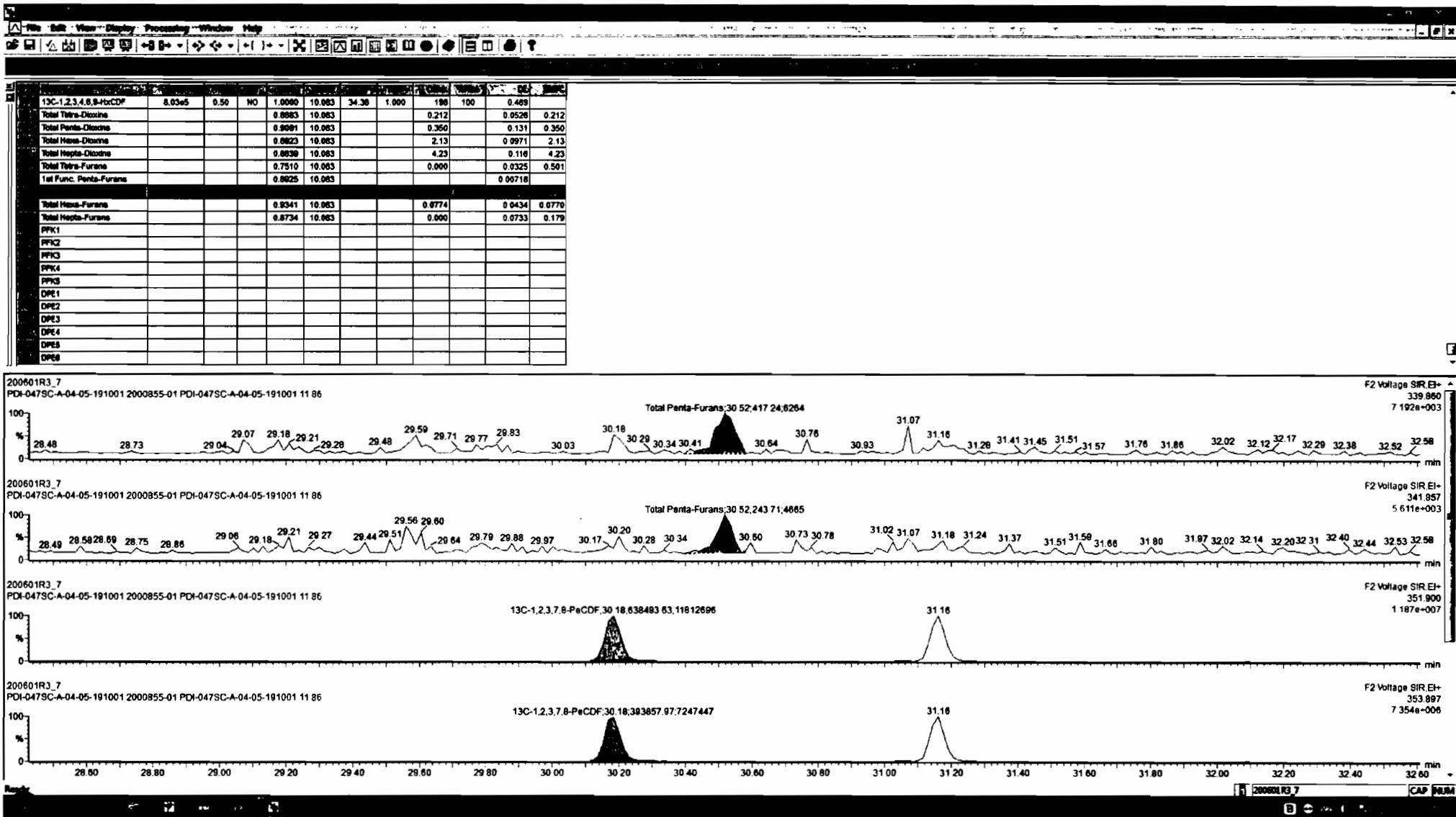
200601R3_7



DPE2

200601R3_7





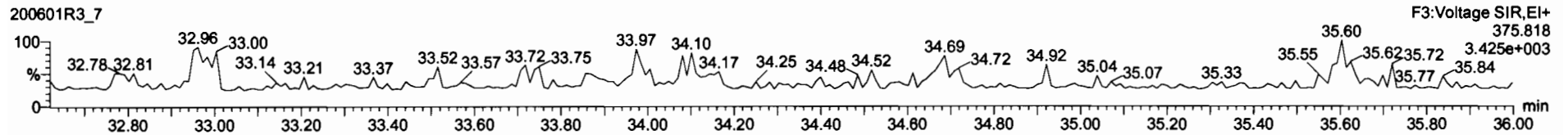
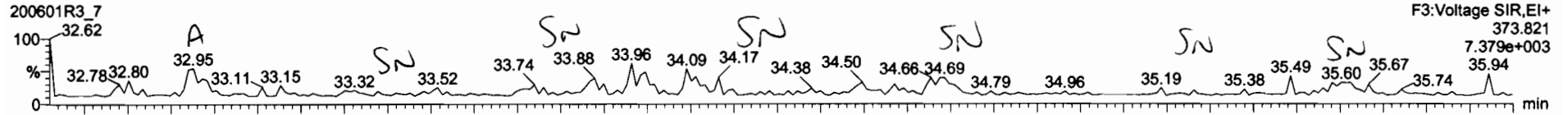
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Total Tetra-Dioxins				0.8683	10.063			0.212		0.0526 0.212
Total Penta-Dioxins				0.9091	10.063			0.350		0.131 0.350
Total Hexa-Dioxins				0.8623	10.063			2.13		0.0971 2.13
Total Hepta-Dioxins				0.8638	10.063			4.23		0.116 4.23
Total Tri-Furans				0.7510	10.063			0.000		0.0325 0.501
1st Func. Penta-Furans				0.8625	10.063					0.06718
Total Hexa-Furans				0.9341	10.063			0.6774		0.0434 0.0776
Total Hepta-Furans				0.8734	10.063			0.000		0.0733 0.179
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										

Dataset: Untitled

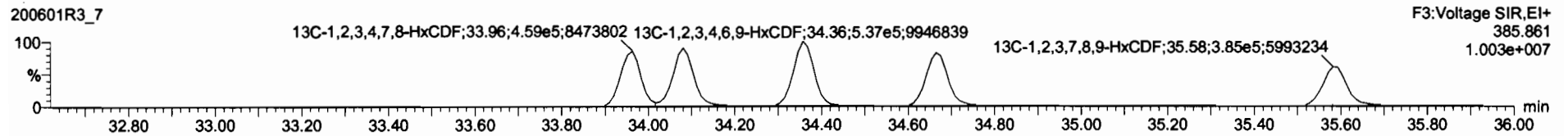
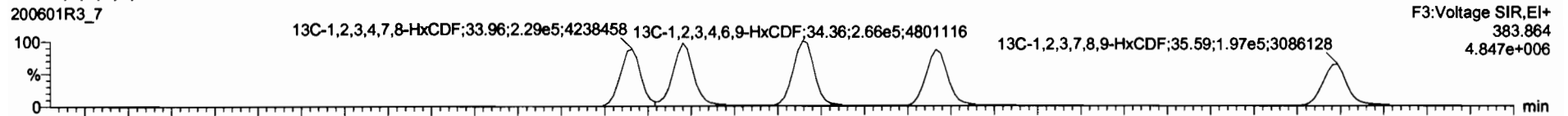
Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001

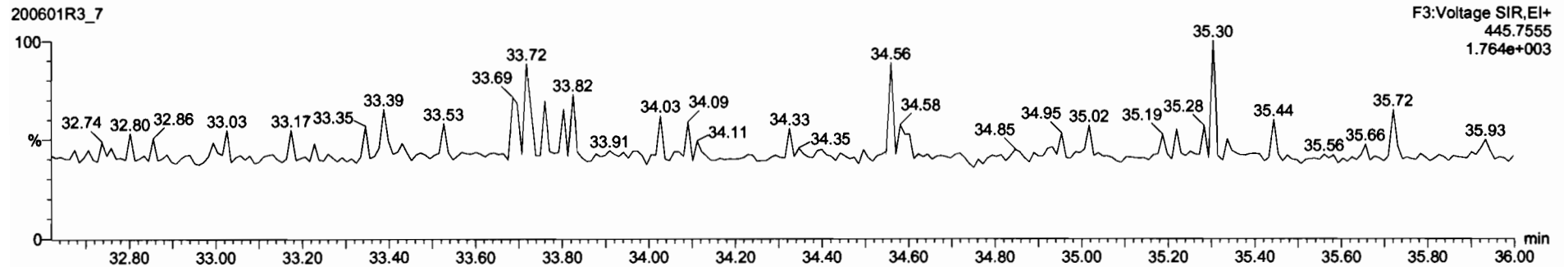
1,2,3,4,7,8-HxCDF

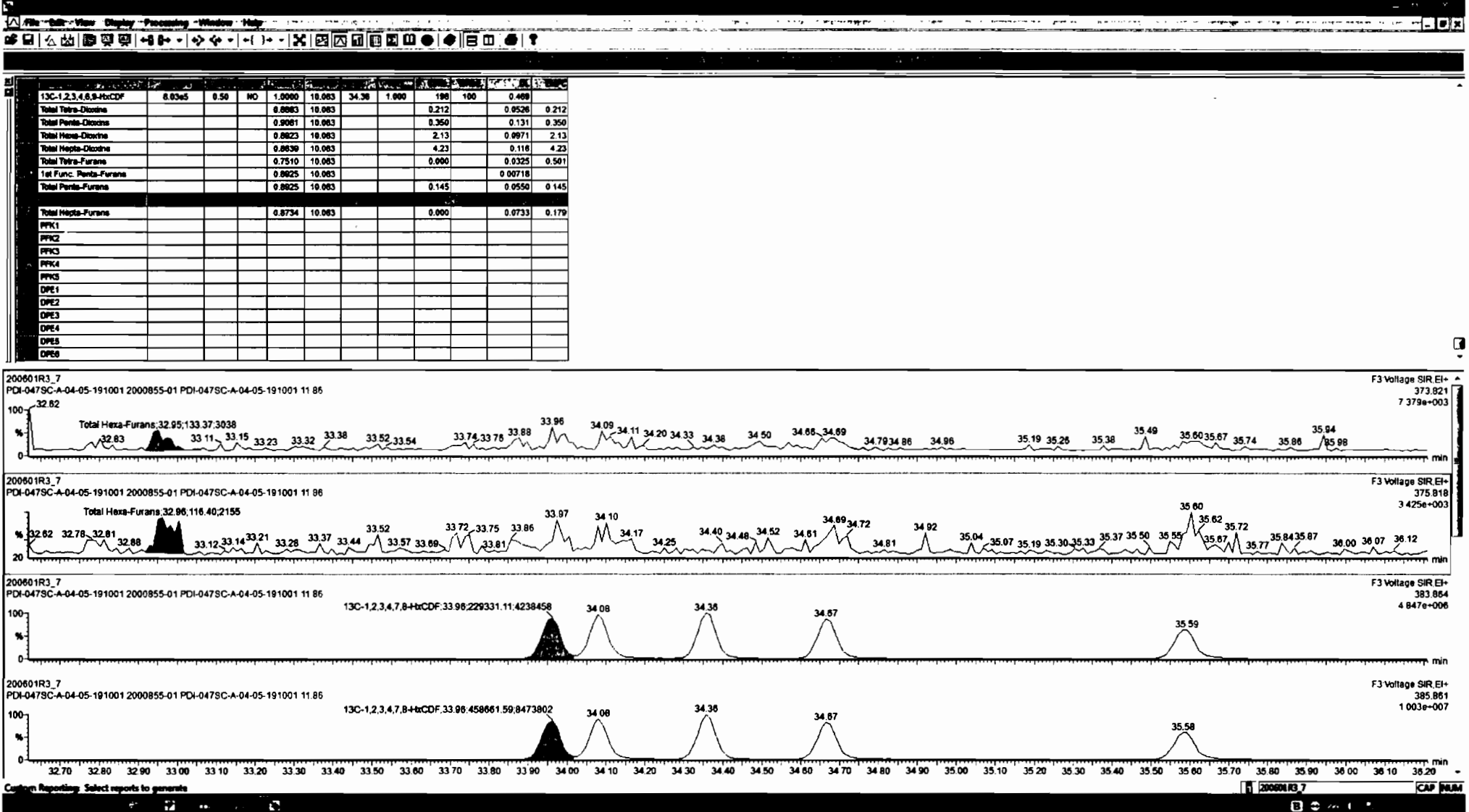


13C-1,2,3,4,7,8-HxCDF

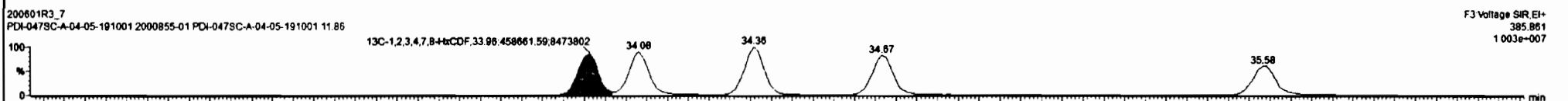
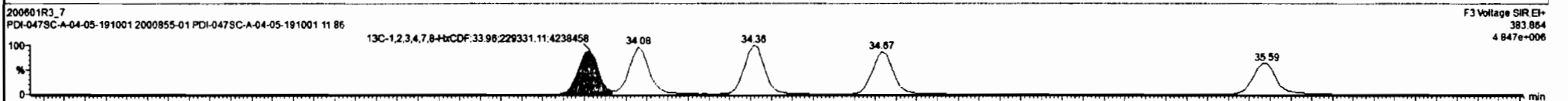
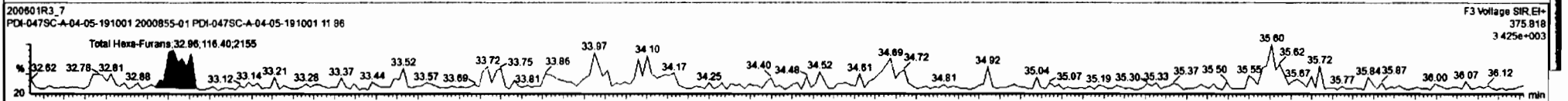
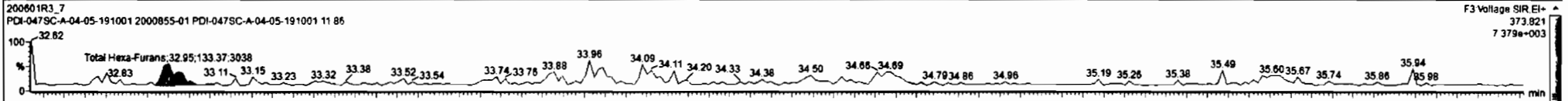


DPE3





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Total Tetra-Dioxins				0.8883	10.063			0.212		0.0528 0.212
Total Penta-Dioxins				0.9081	10.063			0.350		0.131 0.350
Total Hexa-Dioxins				0.8823	10.063			2.13		0.9971 2.13
Total Hepta-Dioxins				0.8630	10.063			4.23		0.116 4.23
Total Tetra-Furans				0.7510	10.063			0.900		0.0325 0.501
1st Func. Penta-Furans				0.8625	10.063					0.00718
Total Penta-Furans				0.8625	10.063			0.145		0.0550 0.145
Total Hepta-Furans				0.8734	10.063			0.900		0.0733 0.179
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



Confirm Reporting. Select reports to generate

200601R3_7 CAP NRAM

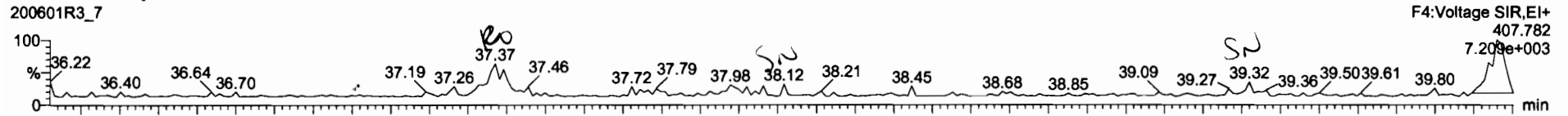
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

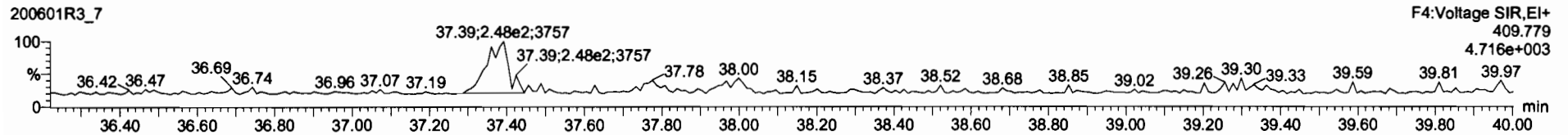
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1,2,3,4,6,7,8-HpCDF

200601R3_7

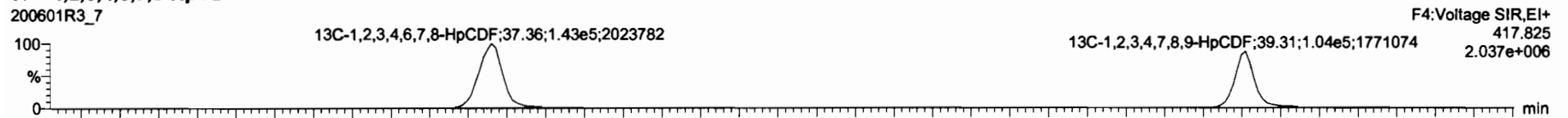


200601R3_7

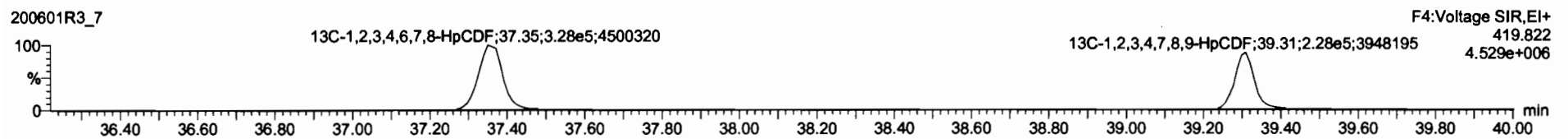


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200601R3_7

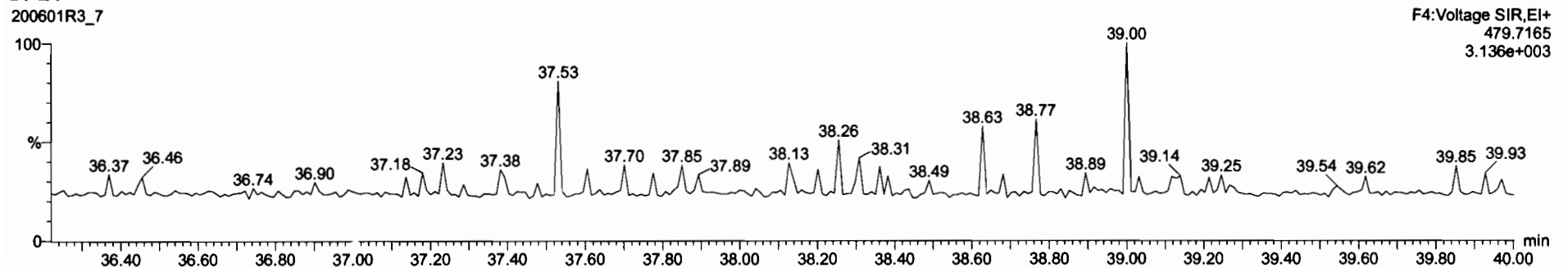


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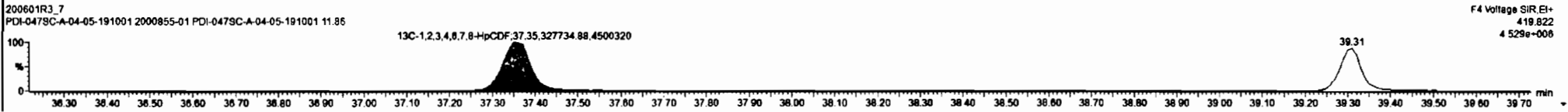
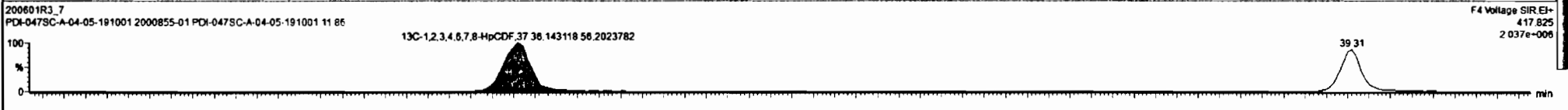
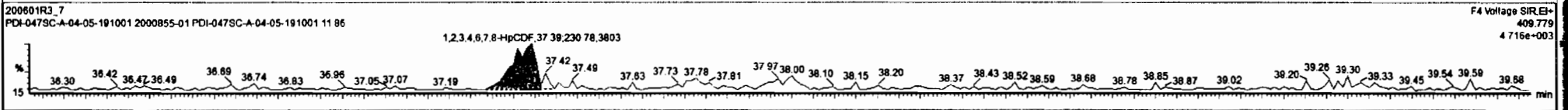
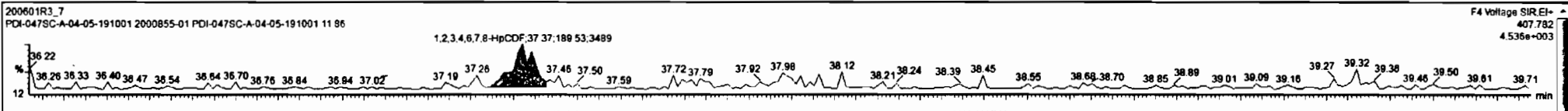


DPE4

200601R3_7



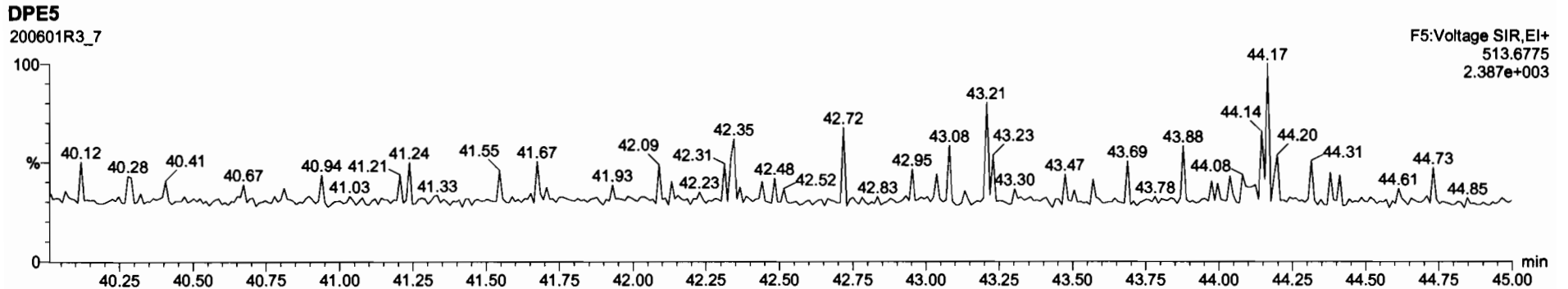
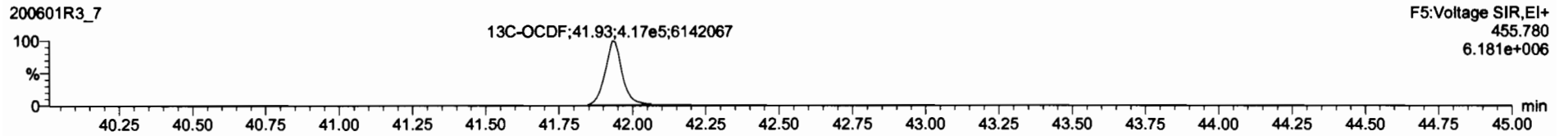
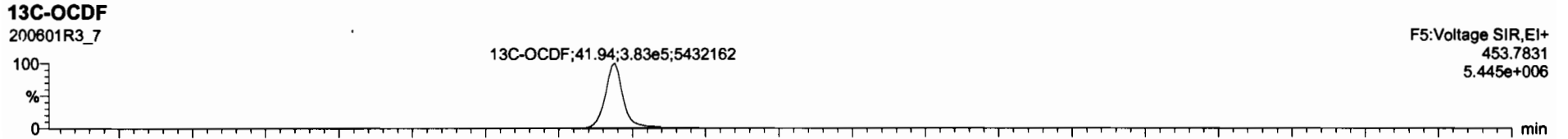
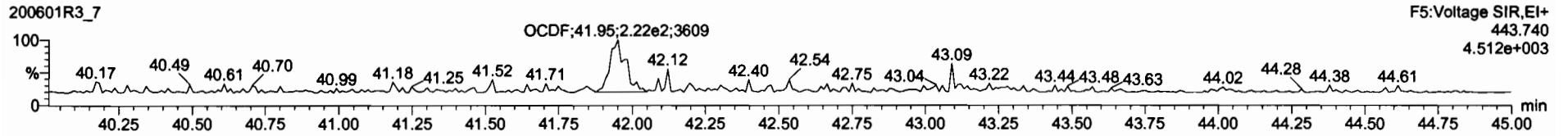
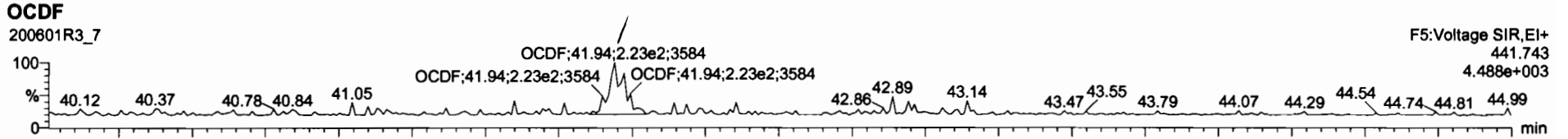
13C-1,2,3,4,6,8-HxCDF	8.03e5	0.50	NO	1.0000	10.083	34.36	1.000	198	100	0.499	
Total Tetra-Dioxins				0.0063	10.083			0.212		0.0526	0.212
Total Penta-Dioxins				0.9061	10.083			0.350		0.131	0.350
Total Hexa-Dioxins				0.0023	10.083			2.13		0.0971	2.13
Total Hepta-Dioxins				0.0039	10.083			4.23		0.116	4.23
Total Tetra-Furans				0.7510	10.083			0.000		0.0325	0.501
1st Func. Penta-Furans				0.0025	10.083					0.09718	
Total Penta-Furans				0.0025	10.083			0.145		0.0550	0.145
Total Hexa-Furans				0.9341	10.083			0.9774		0.0434	0.9770
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001

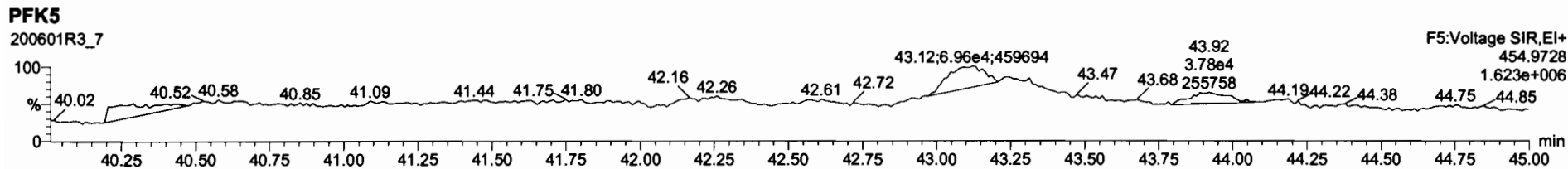
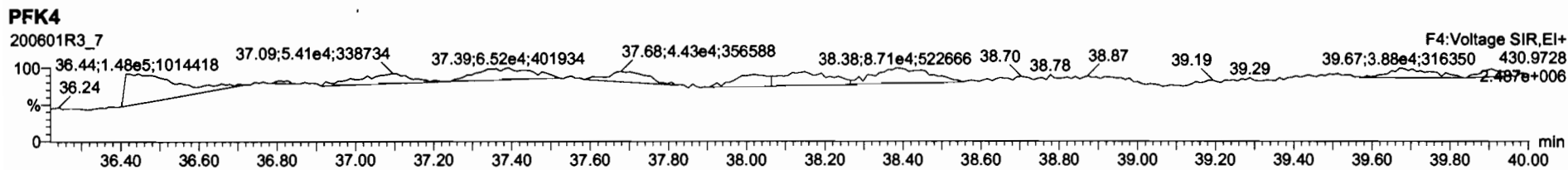
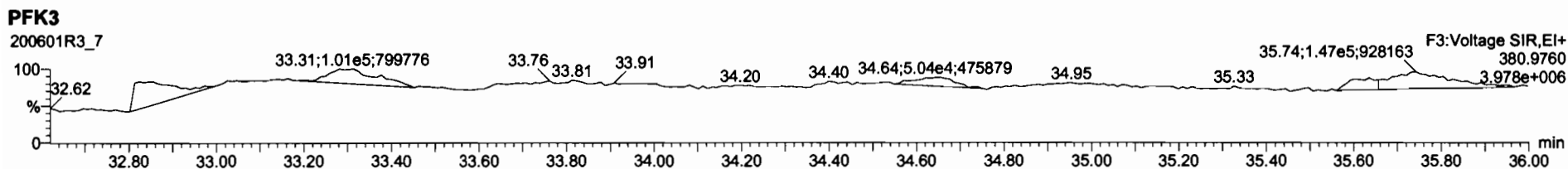
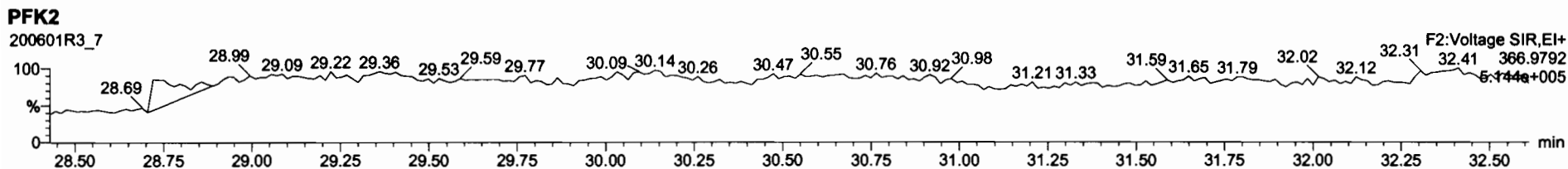
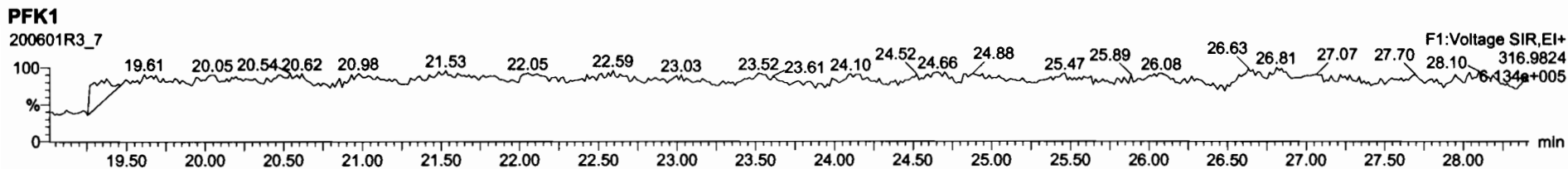


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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_7, Date: 01-Jun-2020, Time: 19:42:44, ID: 2000855-01 PDI-047SC-A-04-05-191001 11.86, Description: PDI-047SC-A-04-05-191001



Dataset: U:\VG12.PRO\Results\200601R3\200601R3-6.qld

Last Altered: Tuesday, June 02, 2020 10:16:00 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 10:17:48 Pacific Daylight Time

Geo 06/02/2020

C1 06/02/2020

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

Name: 200601R3_6, Date: 01-Jun-2020, Time: 18:56:32, ID: B0D0167-DUP1 Duplicate 11.77, Description: Duplicate

Peak	Retention	Abundance	Reference	Yield	Response	Concentration	Mass	Area	Height	Width	Height	Area	Height	Width	Height	Area	Height	Width	Height
1	2,3,7,8-TCDD		NO	0.888	10.006	26.546	1.001					0.0447							
2	1,2,3,7,8-PeCDD		NO	0.908	10.006	31.488	1.001					0.0854							
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.006	34.846	1.000					0.109							
4	1,2,3,6,7,8-HxCDD		NO	0.892	10.006	34.943	1.000					0.106							
5	1,2,3,7,8,9-HxCDD		NO	0.887	10.006	35.241	1.000					0.123							
6	1,2,3,4,6,7,8-HpCDD	1.49e3	1.08	NO	0.864	10.006	38.778	38.78	1.000	1.000	0.88885	0.0935						0.889	
7	OCDD	9.13e3	0.83	NO	0.914	10.006	41.727	41.75	1.000	1.001	6.7860	0.203						6.79	
8	2,3,7,8-TCDF		NO	0.751	10.006	25.657	1.001					0.0335							
9	1,2,3,7,8-PeCDF		NO	0.893	10.006	30.205	1.001					0.0372							
10	2,3,4,7,8-PeCDF		NO	0.935	10.006	31.192	1.001					0.0365							
11	1,2,3,4,7,8-HxCDF		NO	0.884	10.006	33.963	1.000					0.0524							
12	1,2,3,6,7,8-HxCDF		NO	0.889	10.006	34.090	1.000					0.0535							
13	2,3,4,6,7,8-HxCDF		NO	0.934	10.006	34.711	1.001					0.0543							
14	1,2,3,7,8,9-HxCDF		NO	0.871	10.006	35.592	1.000					0.0795							
15	1,2,3,4,6,7,8-HpCDF		NO	0.873	10.006	37.398	1.001					0.0833							
16	1,2,3,4,7,8,9-HpCDF		NO	1.01	10.006	39.310	1.000					0.0836							
17	OCDF	1.72e2	0.70	YES	0.806	10.006	41.930	41.94	1.000	1.000	0.11558	0.0893						0.101	
18	13C-2,3,7,8-TCDD	9.00e5	0.78	NO	1.16	10.006	26.553	26.51	1.026	1.025	181.31	90.7							
19	13C-1,2,3,7,8-PeCDD	6.11e5	0.65	NO	0.849	10.006	31.748	31.47	1.227	1.216	167.70	83.9							
20	13C-1,2,3,4,7,8-HxCDD	4.89e5	1.30	NO	0.779	10.006	34.841	34.84	1.014	1.014	162.03	81.1							
21	13C-1,2,3,6,7,8-HxCDD	5.99e5	1.32	NO	1.02	10.006	34.955	34.94	1.017	1.017	152.25	76.2							
22	13C-1,2,3,7,8,9-HxCDD	5.38e5	1.25	NO	0.903	10.006	35.226	35.23	1.025	1.025	153.95	77.0							
23	13C-1,2,3,4,6,7,8-HpCDD	3.88e5	1.05	NO	0.689	10.006	38.751	38.77	1.128	1.128	145.55	72.8							
24	13C-OCDD	5.89e5	0.89	NO	0.652	10.006	41.775	41.73	1.216	1.215	233.08	58.3							
25	13C-2,3,7,8-TCDF	1.23e6	0.78	NO	1.06	10.006	25.593	25.63	0.989	0.991	170.25	85.2							
26	13C-1,2,3,7,8-PeCDF	9.72e5	1.61	NO	0.838	10.006	30.128	30.18	1.165	1.167	170.76	85.4							
27	13C-2,3,4,7,8-PeCDF	9.30e5	1.61	NO	0.817	10.006	31.083	31.16	1.202	1.205	167.59	83.8							
28	13C-1,2,3,4,7,8-HxCDF	6.34e5	0.51	NO	1.01	10.006	33.972	33.96	0.989	0.989	162.45	81.3							
29	13C-1,2,3,6,7,8-HxCDF	6.91e5	0.51	NO	1.17	10.006	34.096	34.08	0.992	0.992	152.92	76.5							
30	13C-2,3,4,6,7,8-HxCDF	6.62e5	0.51	NO	1.02	10.006	34.670	34.68	1.009	1.009	167.20	83.6							
31	13C-1,2,3,7,8,9-HxCDF	5.42e5	0.50	NO	0.860	10.006	35.570	35.59	1.035	1.036	162.72	81.4							

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-6.qld

Last Altered: Tuesday, June 02, 2020 10:16:00 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 10:17:48 Pacific Daylight Time

Name: 200601R3_6, Date: 01-Jun-2020, Time: 18:56:32, ID: B0D0167-DUP1 Duplicate 11.77, Description: Duplicate

32	13C-1,2,3,4,6,7,8-HpCDF	4.32e5	0.43	NO	0.774	10.006	37.319	37.36	1.086	1.087	144.09	72.1	0.379	
33	13C-1,2,3,4,7,8,9-HpCDF	3.15e5	0.44	NO	0.521	10.006	39.349	39.31	1.145	1.144	156.13	78.1	0.563	
34	13C-OCDF	7.36e5	0.89	NO	0.746	10.006	41.946	41.93	1.221	1.220	254.89	63.8	0.233	
35	37Cl-2,3,7,8-TCDD	3.62e5			1.04	10.006	26.584	26.53	1.028	1.025	81.408	102	0.0632	
36	13C-1,2,3,4-TCDD	8.58e5	0.80	NO	1.00	10.006	25.890	25.87	1.000	1.000	199.88	100	0.170	
37	13C-1,2,3,4-TCDF	1.36e6	0.80	NO	1.00	10.006	24.360	24.19	1.000	1.000	199.88	100	0.222	
38	13C-1,2,3,4,6,9-HxCDF	7.74e5	0.51	NO	1.00	10.006	34.420	34.36	1.000	1.000	199.88	100	0.581	
39	Total Tetra-Dioxins				0.888	10.006	24.620		0.000		0.14483		0.0447	0.145
40	Total Penta-Dioxins				0.908	10.006	29.960		0.000		0.00000		0.0346	0.112
41	Total Hexa-Dioxins				0.892	10.006	33.635		0.000		0.92958		0.117	0.930
42	Total Hepta-Dioxins				0.864	10.006	37.640		0.000		2.5335		0.0935	2.53
43	Total Tetra-Furans				0.751	10.006	23.610		0.000				0.0156	
44	1st Func. Penta-Furans				0.893	10.006	27.580		0.000				0.00903	
45	Total Penta-Furans				0.893	10.006	29.275		0.000				0.0180	
46	Total Hexa-Furans				0.934	10.006	33.555		0.000				0.0317	
47	Total Hepta-Furans				0.873	10.006	37.835		0.000				0.0417	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-6.qld

Last Altered: Tuesday, June 02, 2020 10:16:00 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 10:17:48 Pacific Daylight Time

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Name: 200601R3_6, Date: 01-Jun-2020, Time: 18:56:32, ID: B0D0167-DUP1 Duplicate 11.77, Description: Duplicate

Tetra-Dioxins

	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height	Area	Height
Total Tetra-Dioxins	24.34	4.061e3	4.758e3	2.472e2	3.322e2	0.74	NO	5.794e2	0.14483	0.14483	0.0447	

Penta-Dioxins

Total Penta-Dioxins	29.76	4.440e3	6.071e3	1.205e2	2.641e2	0.46	YES	0.000e0	0.00000	0.11223	0.0346	
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Hexa-Dioxins

Total Hexa-Dioxins	33.35	1.732e4	1.544e4	8.327e2	7.062e2	1.18	NO	1.539e3	0.63584	0.63584	0.117	
Total Hexa-Dioxins	34.15	6.029e3	7.017e3	3.965e2	3.144e2	1.26	NO	7.109e2	0.29374	0.29374	0.117	

Hepta-Dioxins

Total Hepta-Dioxins	37.76	1.773e4	1.956e4	1.368e3	1.394e3	0.98	NO	2.761e3	1.6446	1.6446	0.0935	
1,2,3,4,6,7,8-HpCDD	38.78	1.348e4	1.401e4	7.736e2	7.188e2	1.08	NO	1.492e3	0.88885	0.88885	0.0935	

Tetra-Furans

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Penta-Furans function 1

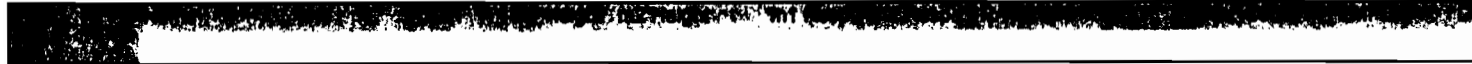
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Printed: Tuesday, June 02, 2020 10:17:48 Pacific Daylight Time

Name: 200601R3_6, Date: 01-Jun-2020, Time: 18:56:32, ID: B0D0167-DUP1 Duplicate 11.77, Description: Duplicate

Penta-Furans



Hexa-Furans

Peak	Height	m2 Height	m1 Resp	m2 Resp	RA	Area	Conc	EMPC	DL
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Hepta-Furans



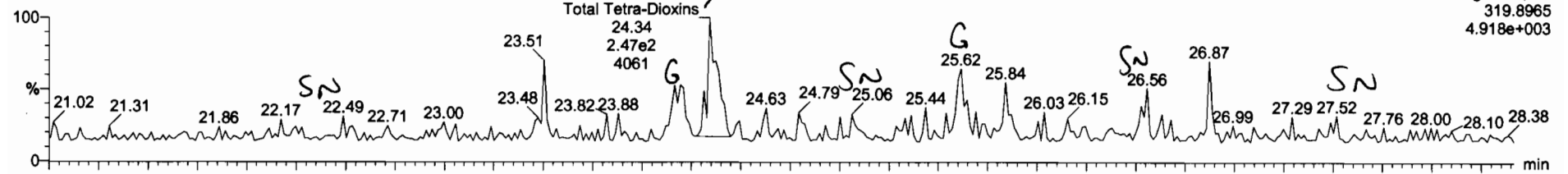
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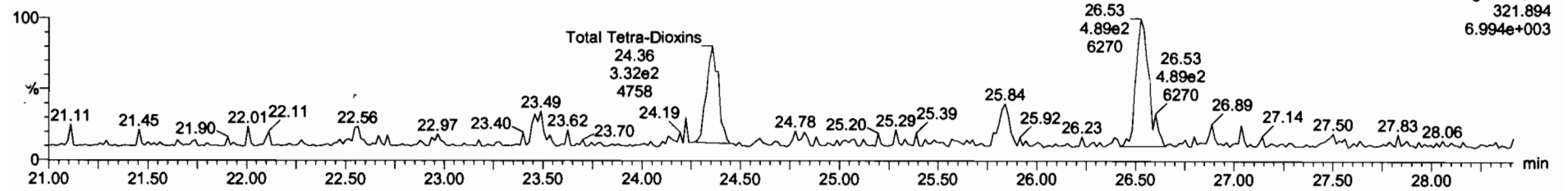
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2,3,7,8-TCDD

200601R3_6

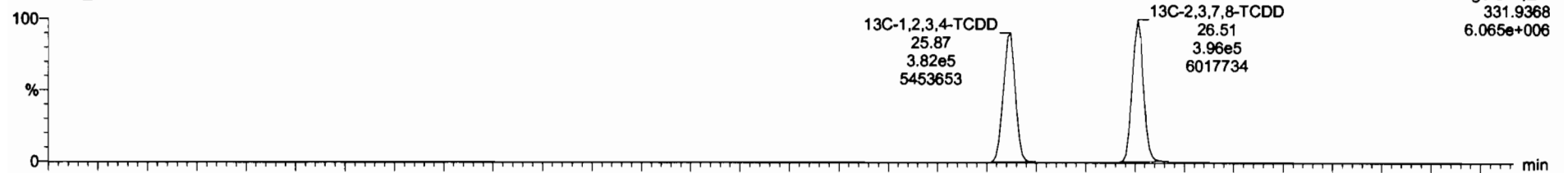


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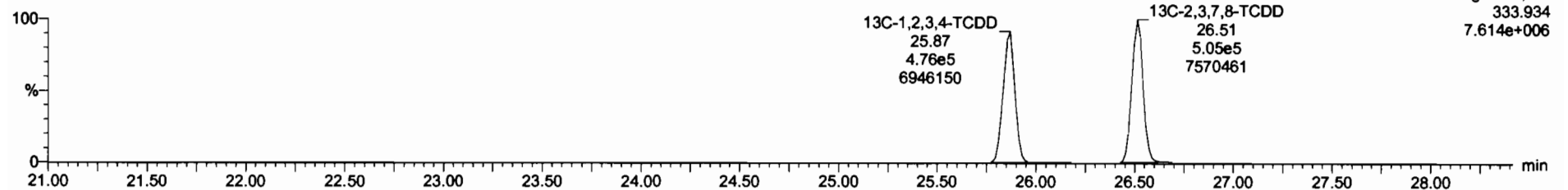


13C-2,3,7,8-TCDD

200601R3_6



200601R3_6



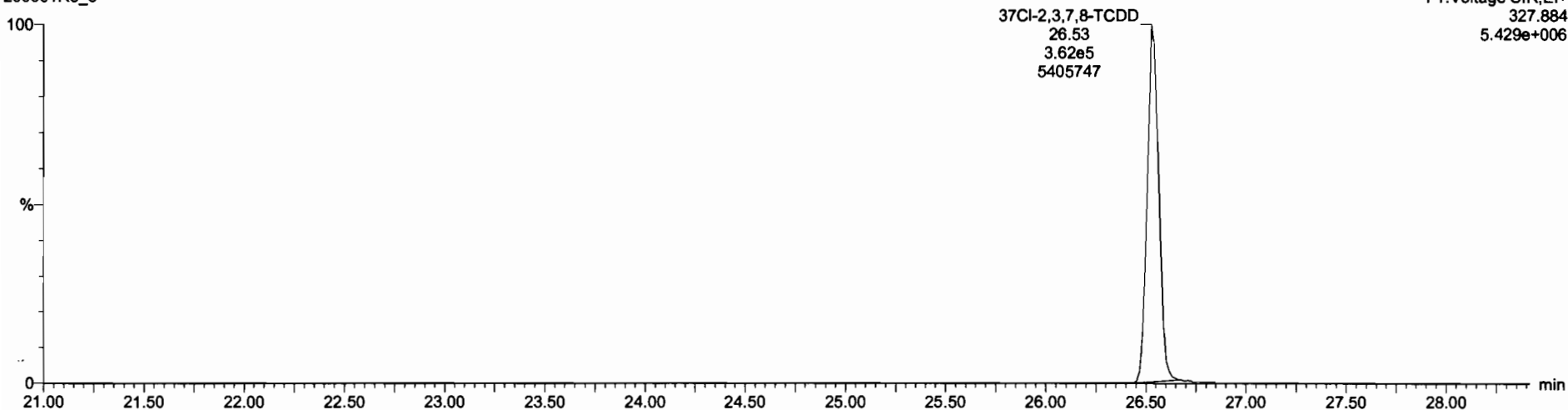
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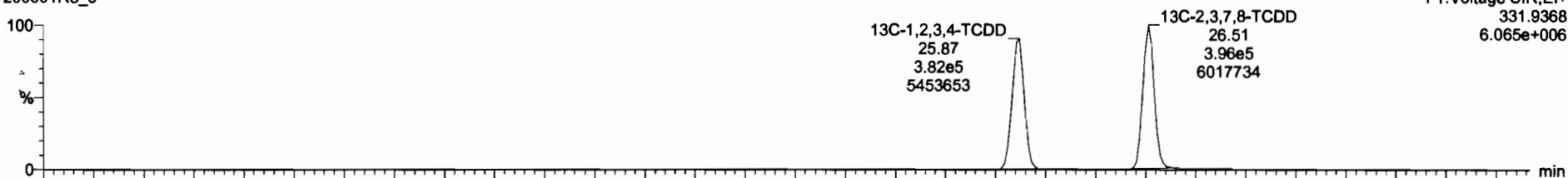
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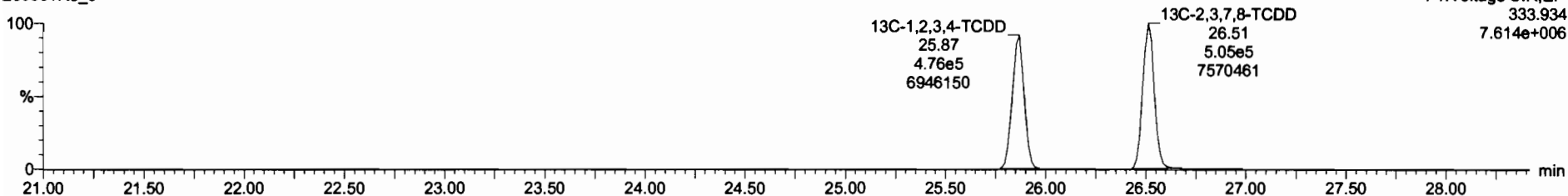


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200601R3_6



200601R3_6



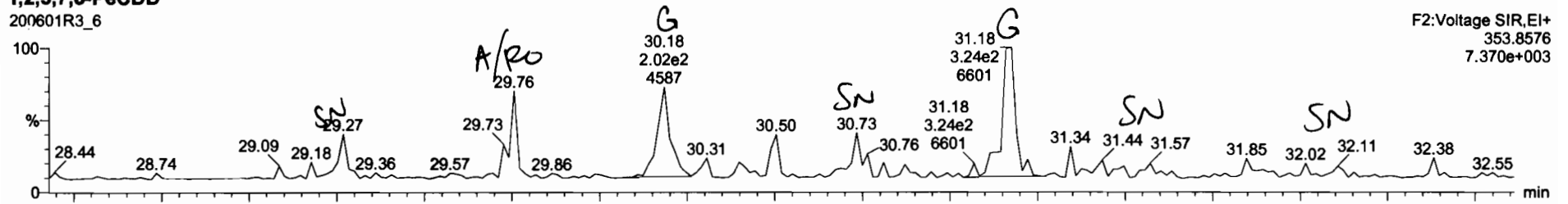
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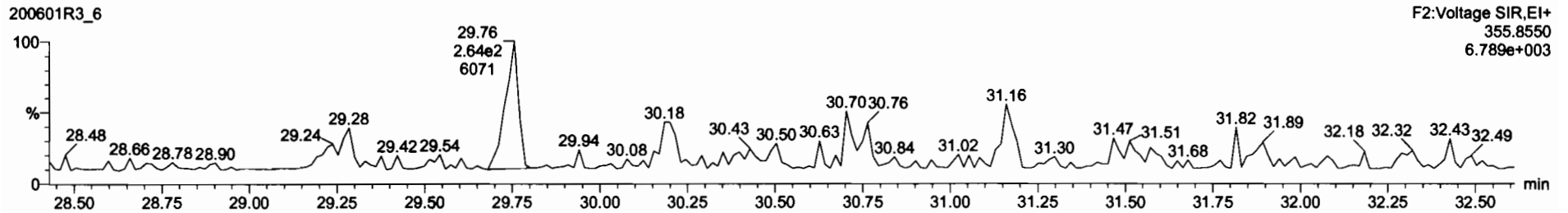
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1,2,3,7,8-PeCDD

200601R3_6

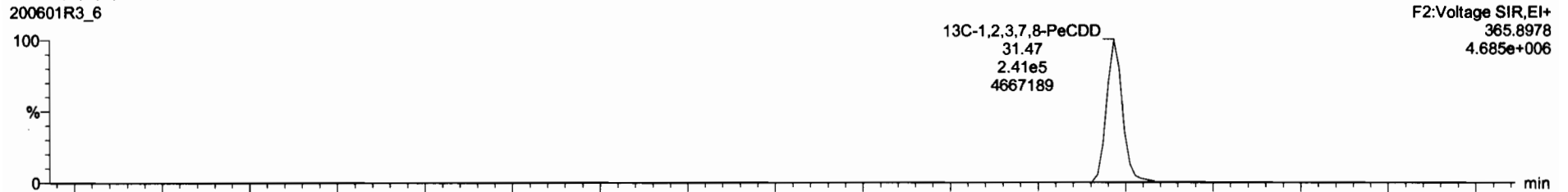


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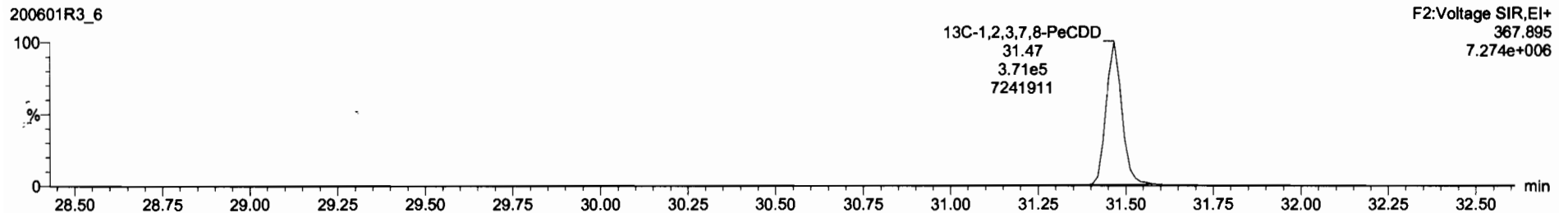


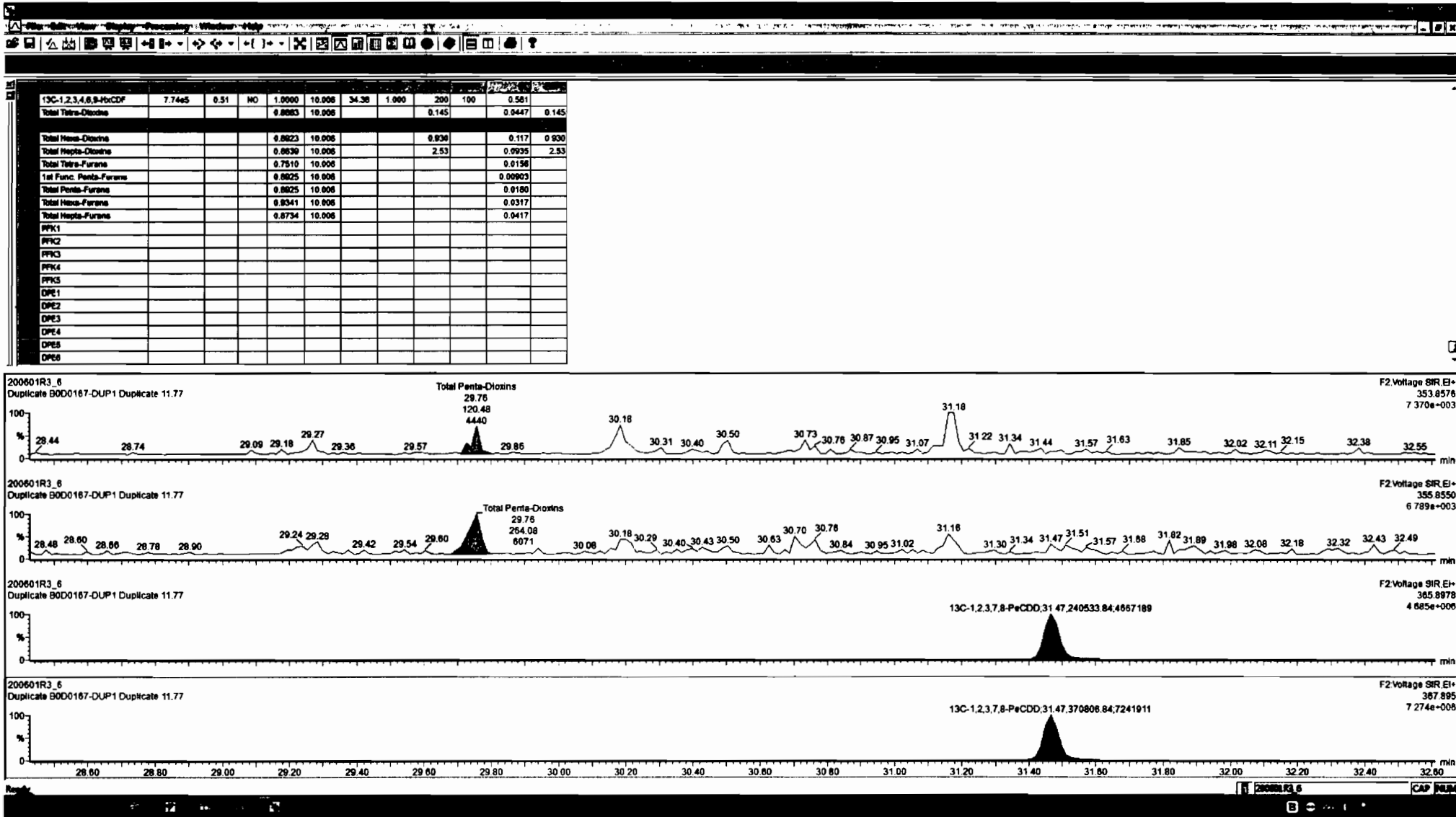
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200601R3_6



200601R3_6





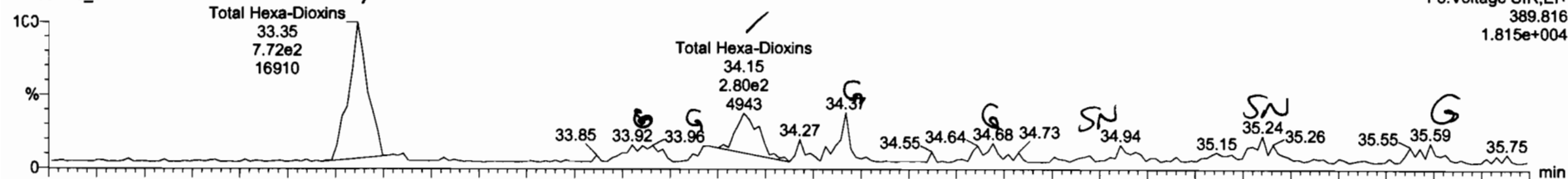
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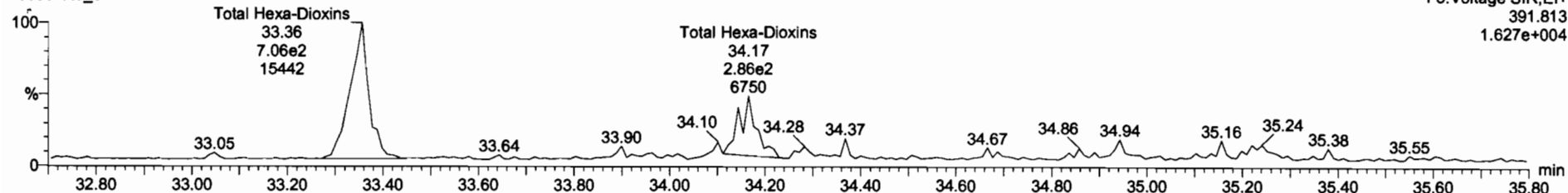
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1,2,3,4,7,8-HxCDD

200601R3_6

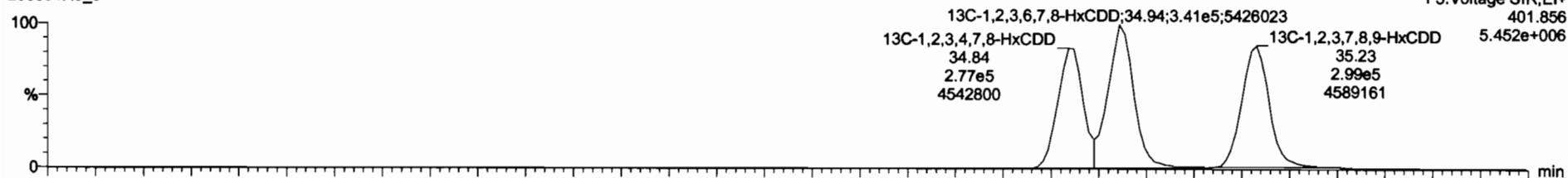


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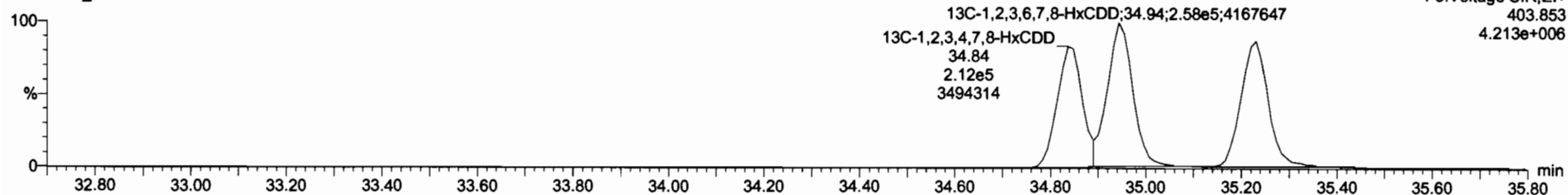


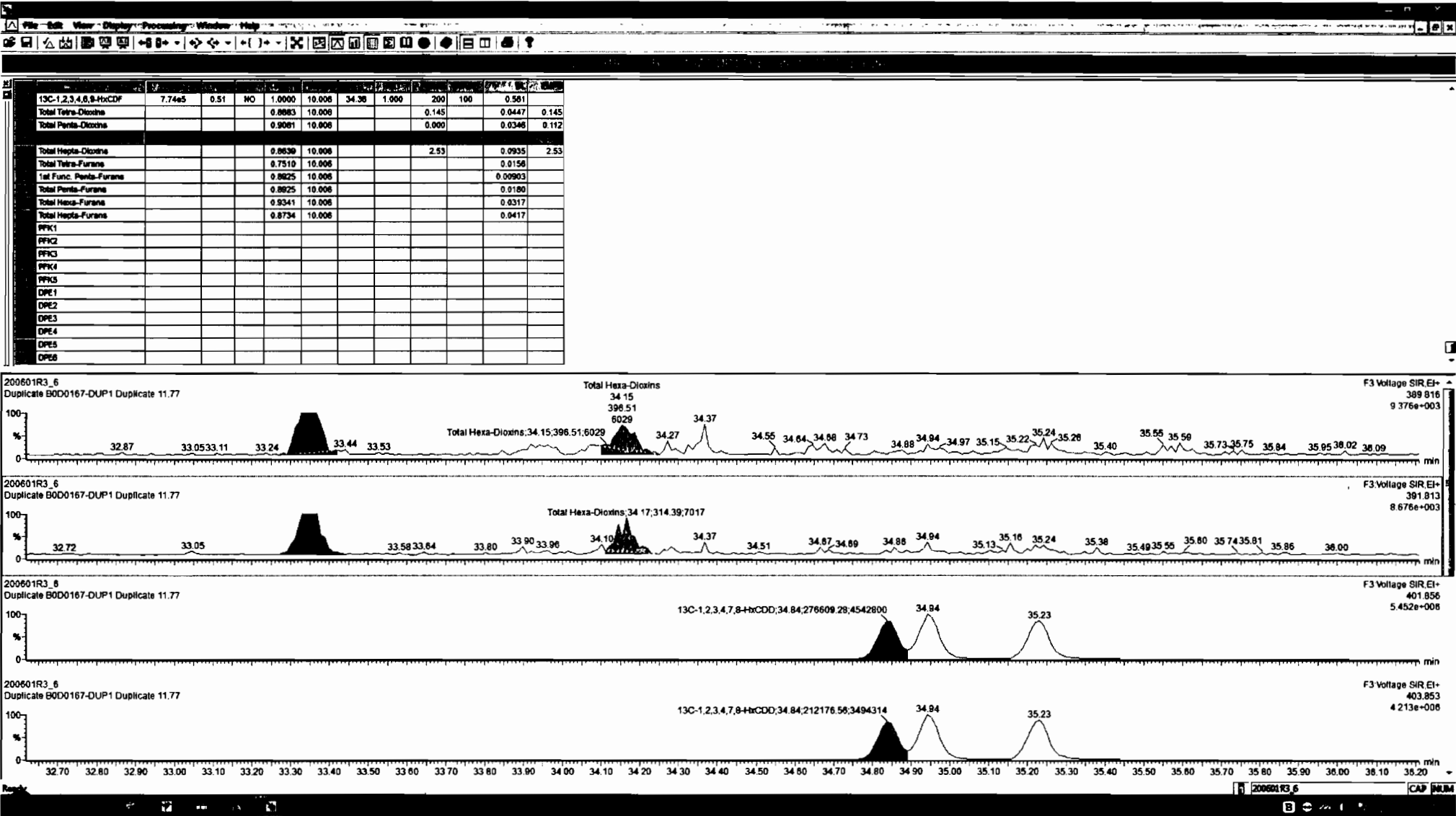
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200601R3_6



200601R3_6





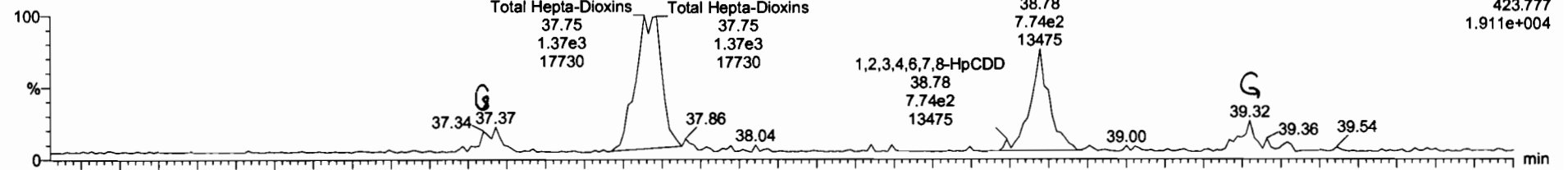
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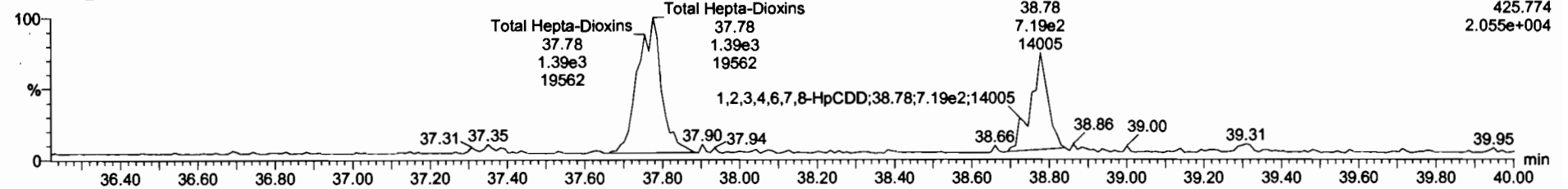
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1,2,3,4,6,7,8-HpCDD

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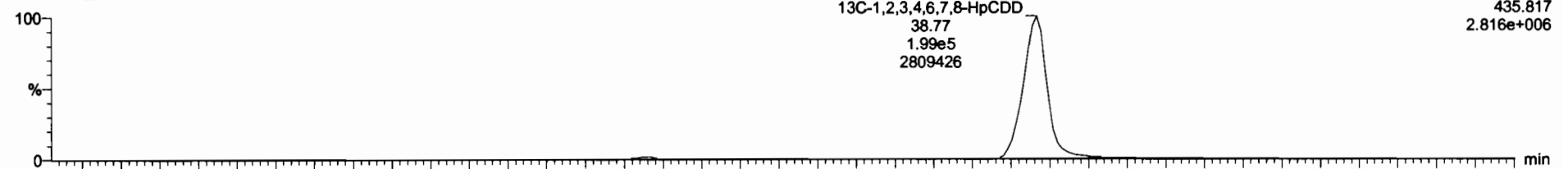


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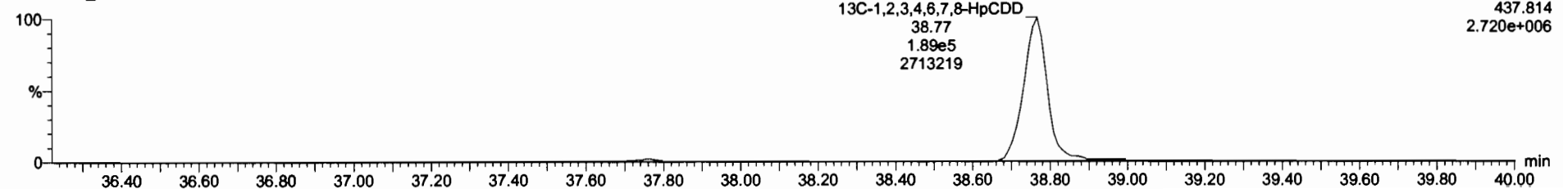


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200601R3_6



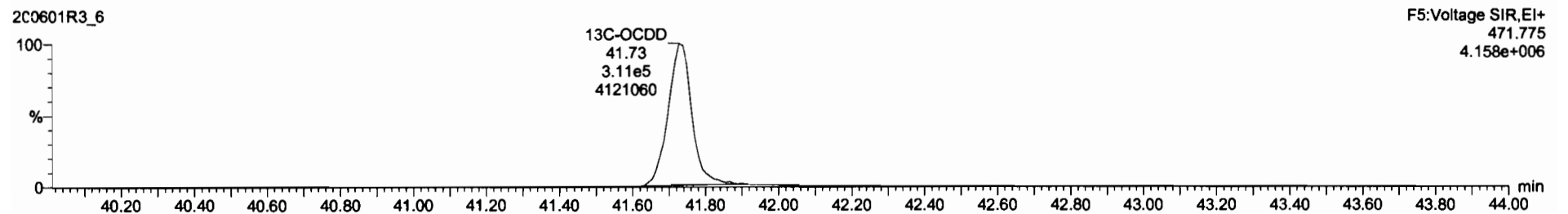
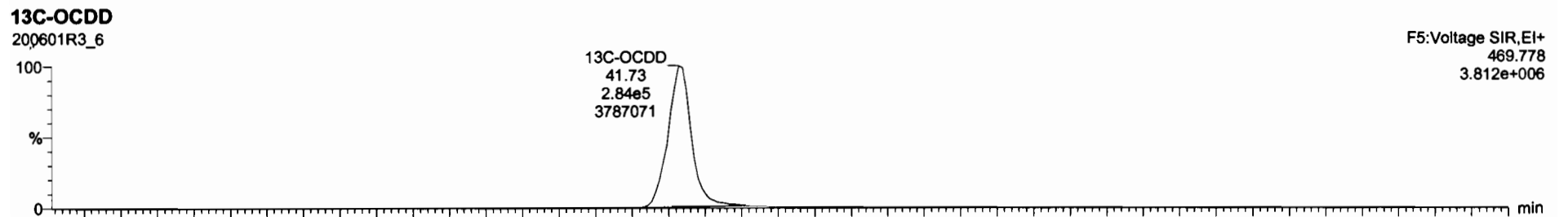
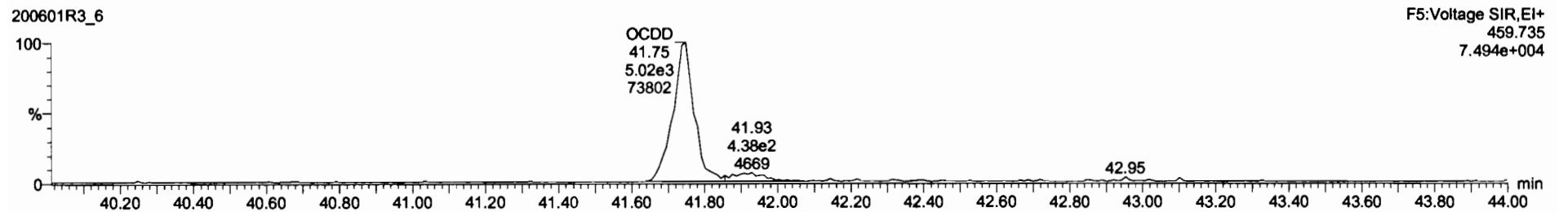
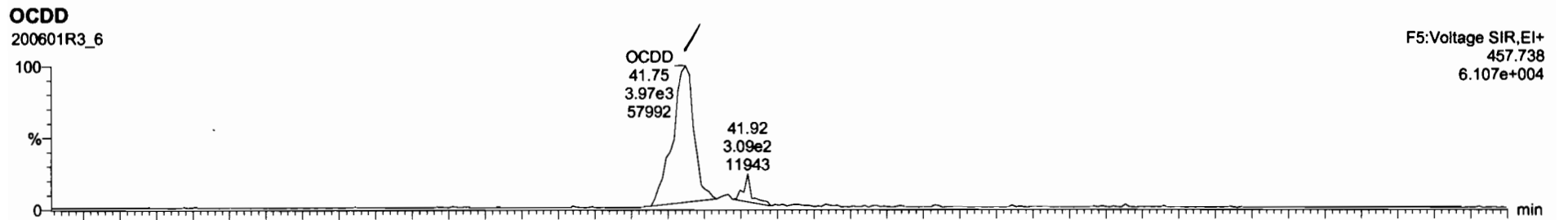
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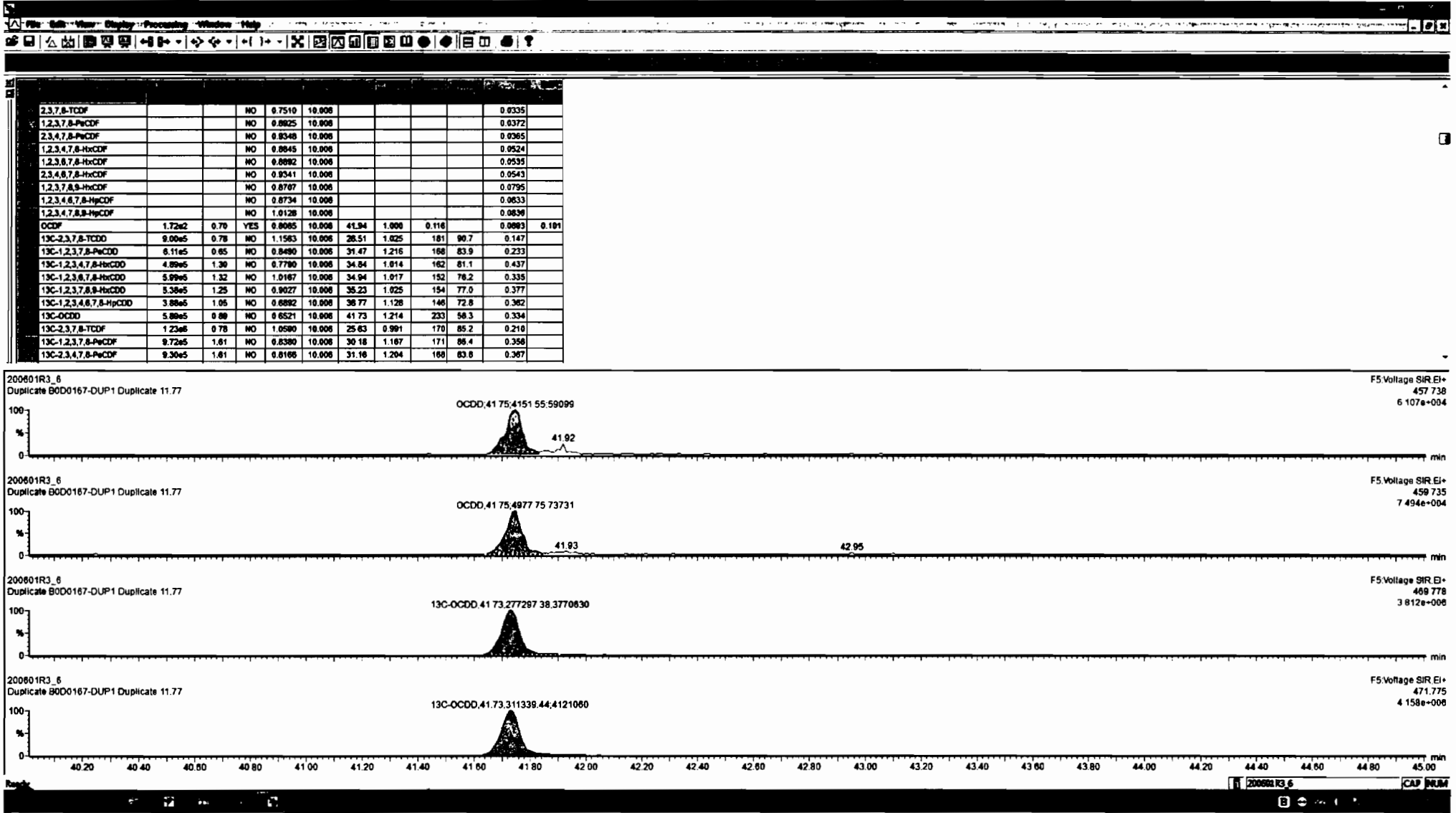


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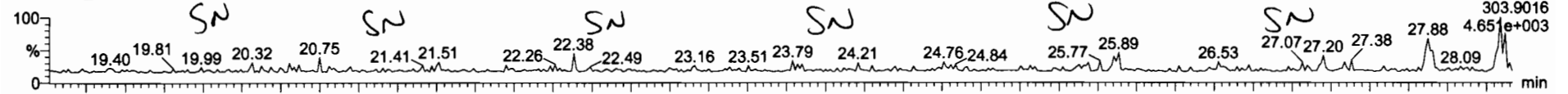
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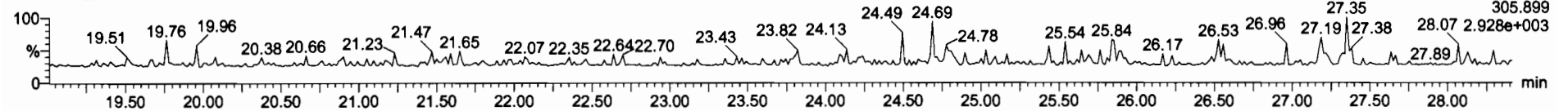
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2,3,7,8-TCDF

200601R3_6

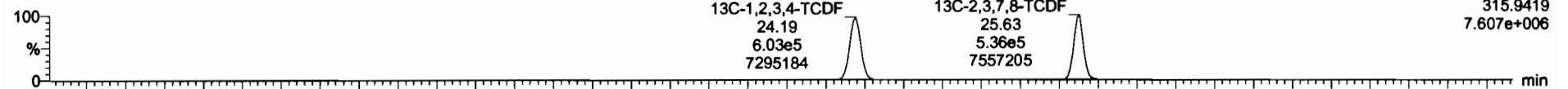


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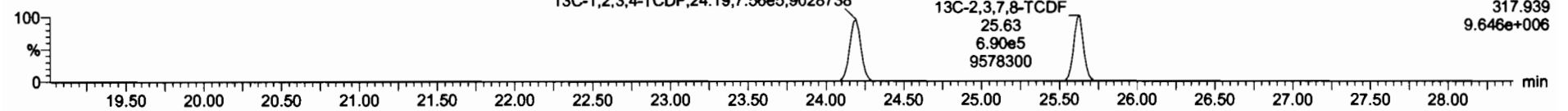


13C-2,3,7,8-TCDF

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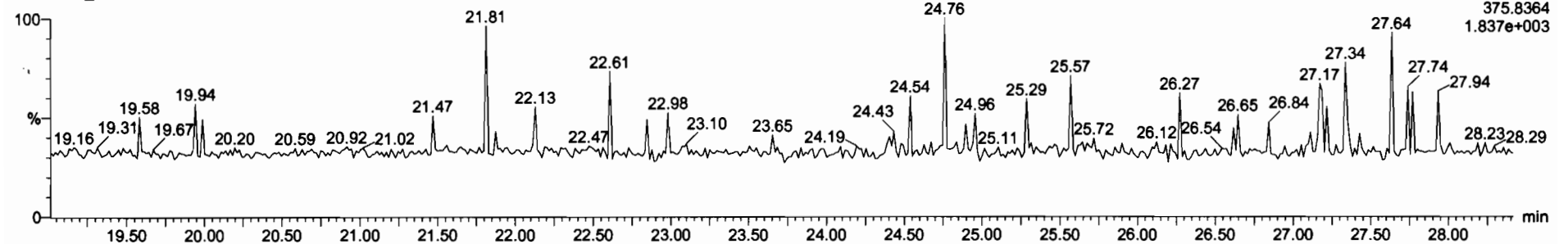


200601R3_6



DPE1

200601R3_6



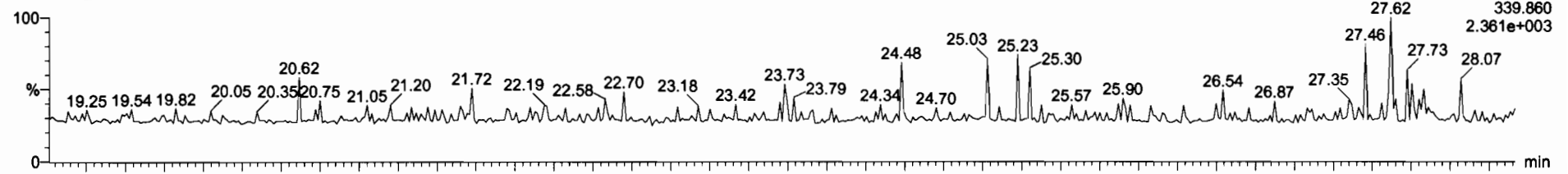
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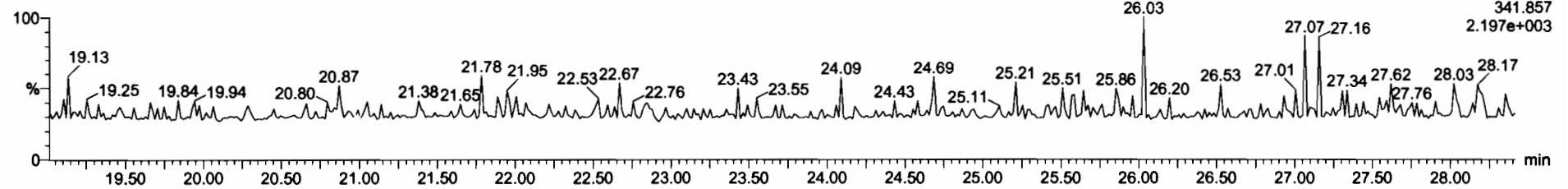
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1st Func. Penta-Furans

200601R3_6

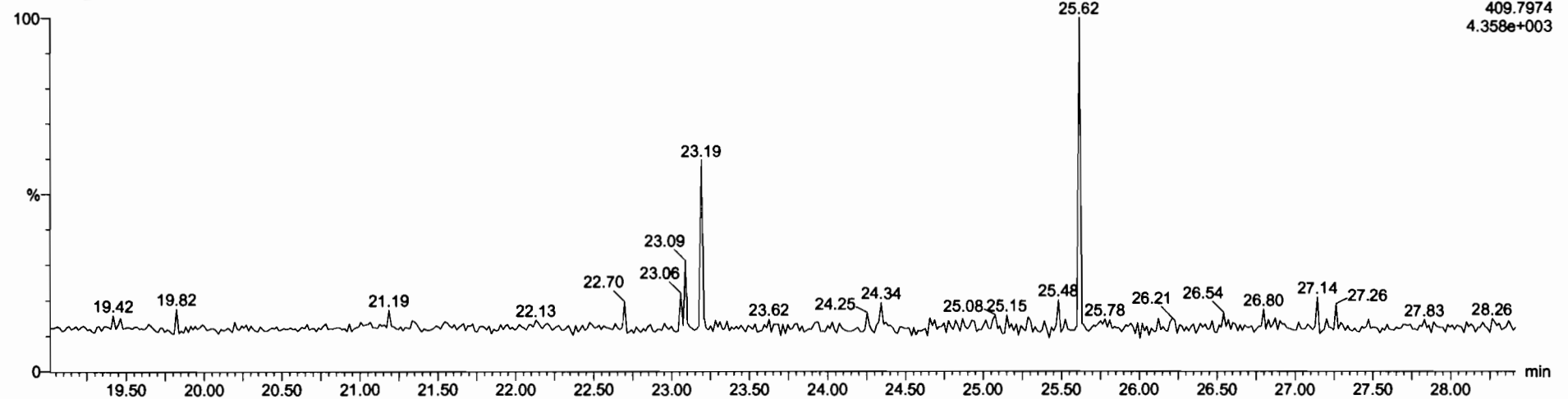


200601R3_6



DPE6

200601R3_6



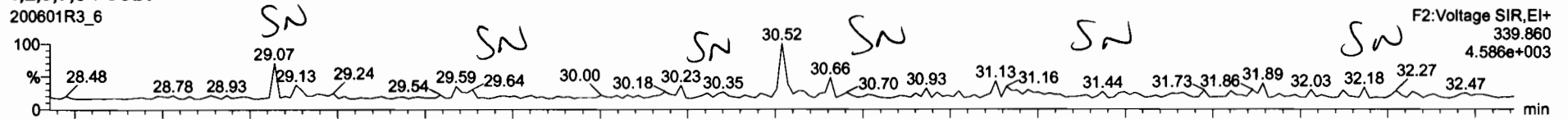
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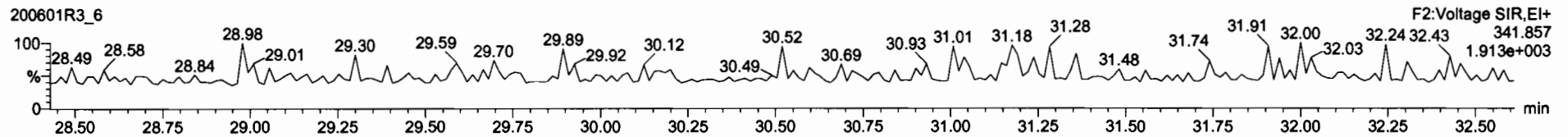
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1,2,3,7,8-PeCDF

200601R3_6

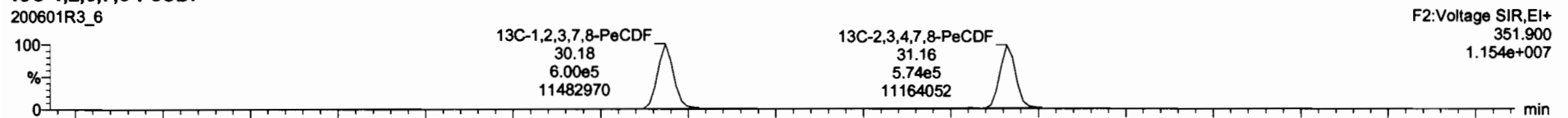


200601R3_6

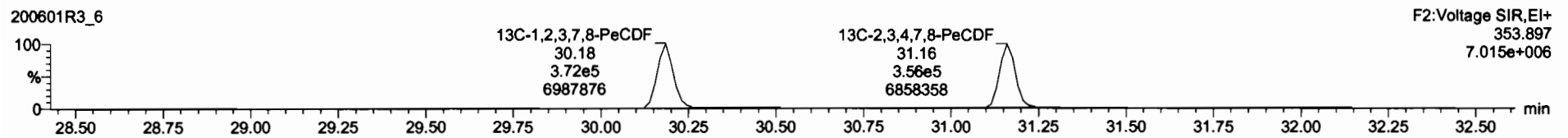


13C-1,2,3,7,8-PeCDF

200601R3_6

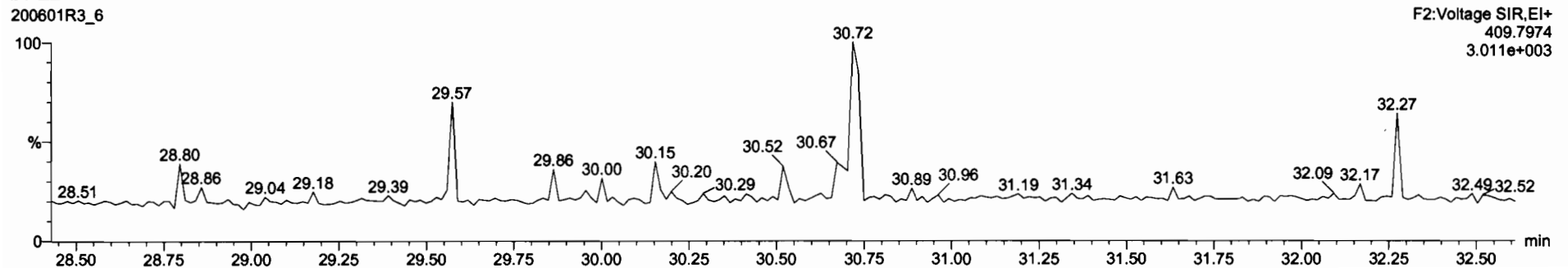


200601R3_6



DPE2

200601R3_6

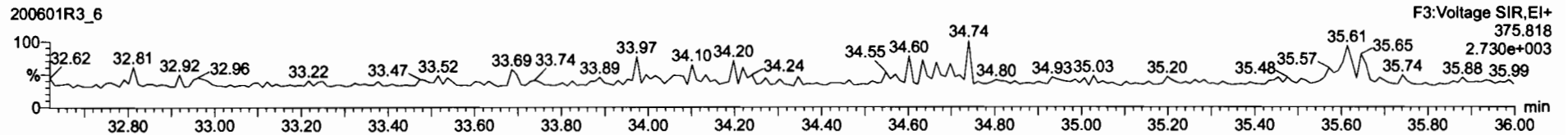
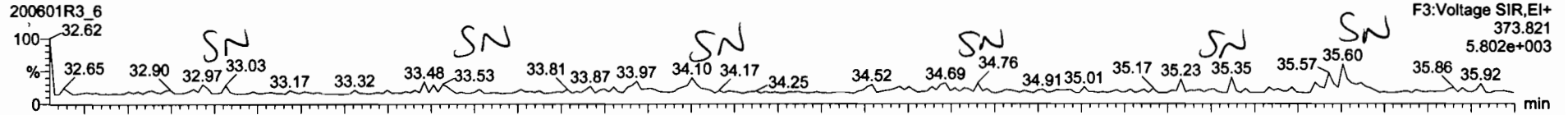


Dataset: Untitled

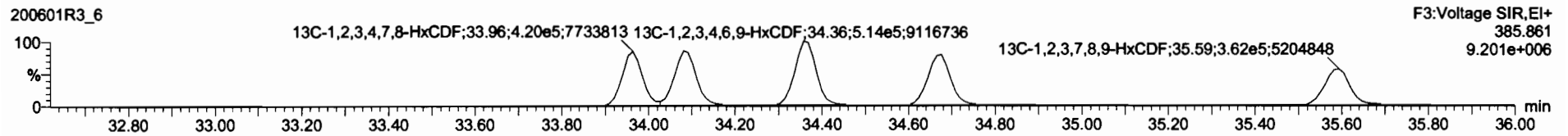
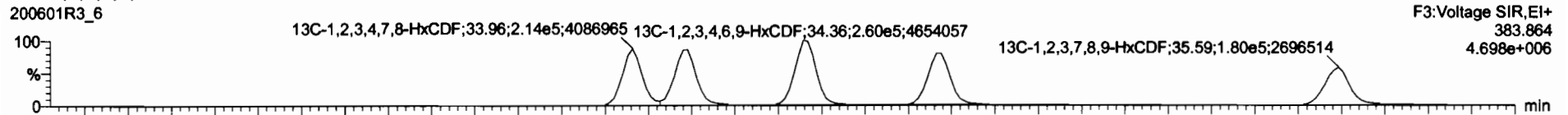
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_6, Date: 01-Jun-2020, Time: 18:56:32, ID: B0D0167-DUP1 Duplicate 11.77, Description: Duplicate

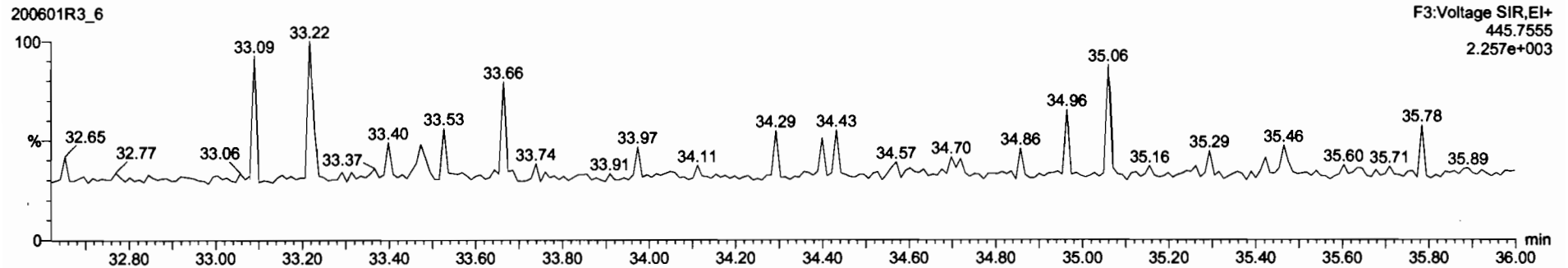
1,2,3,4,7,8-HxCDF



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



DPE3



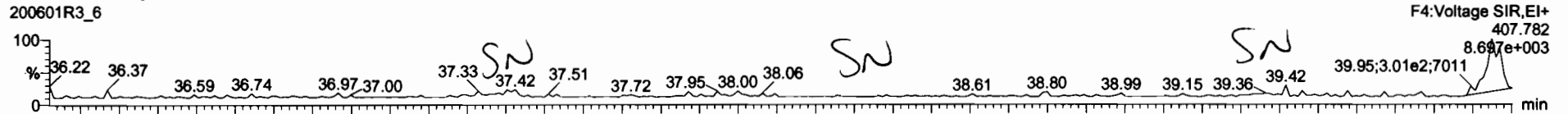
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

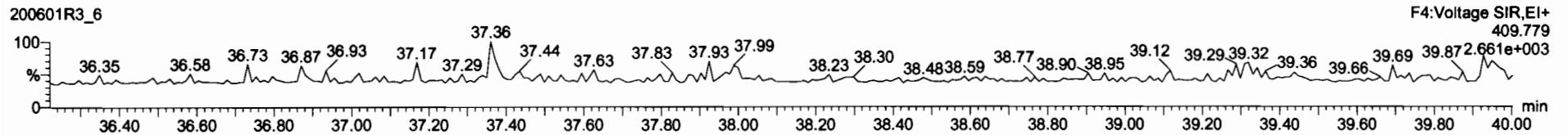
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1,2,3,4,6,7,8-HpCDF

200601R3_6



200601R3_6

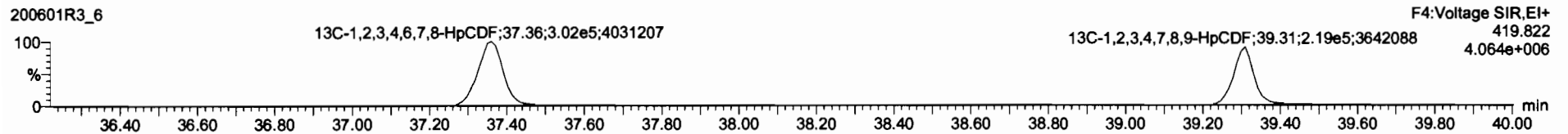


13C-1,2,3,4,6,7,8-HpCDF

200601R3_6

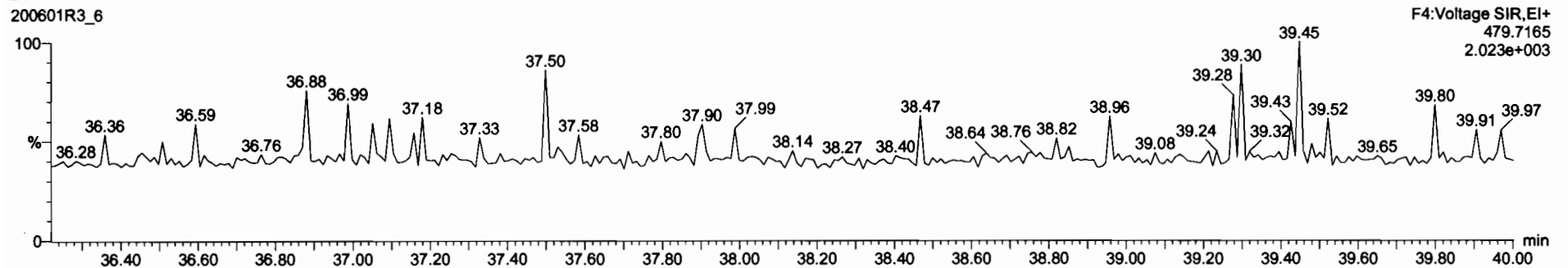


200601R3_6



DPE4

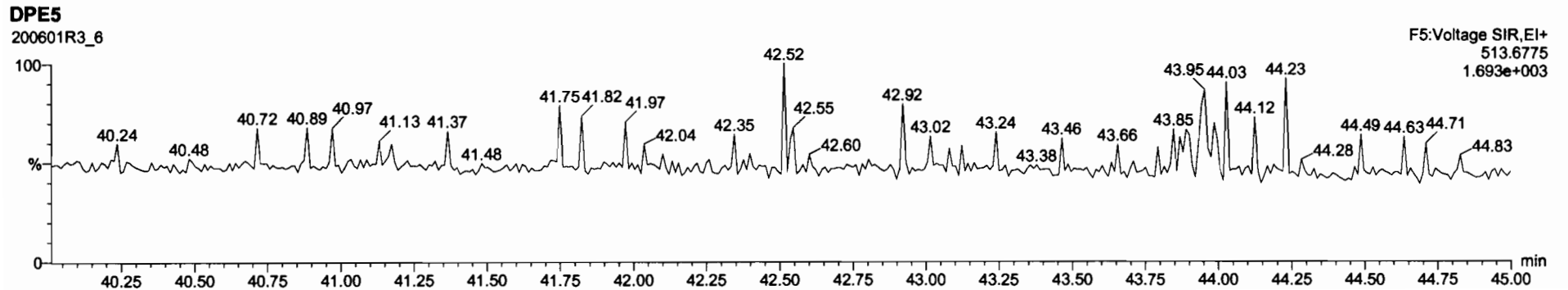
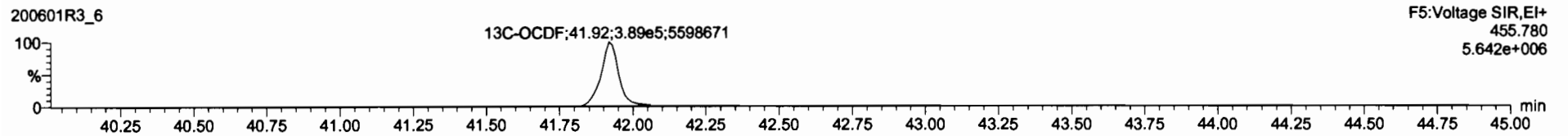
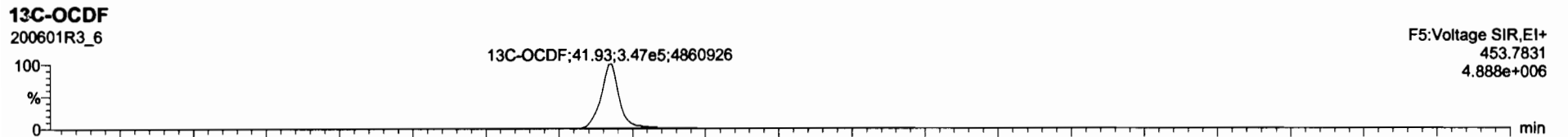
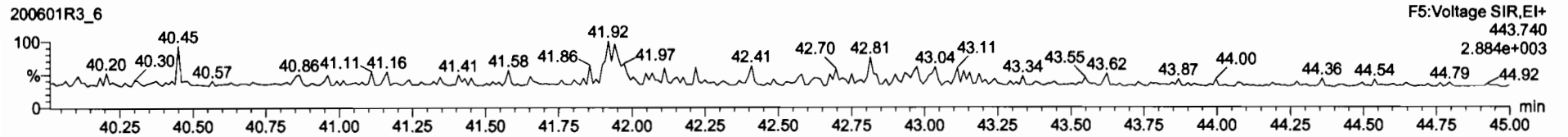
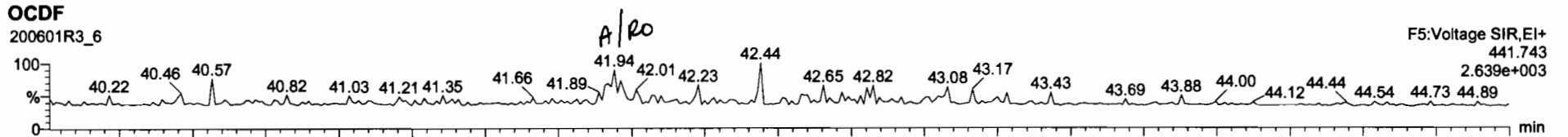
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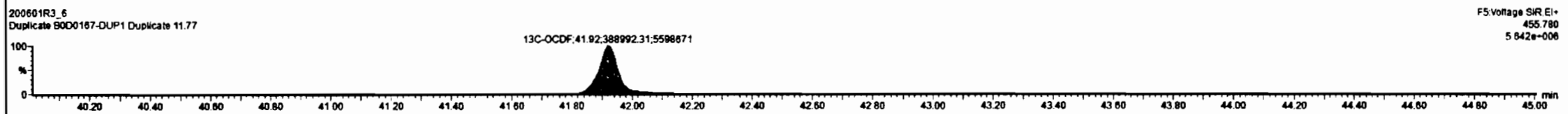
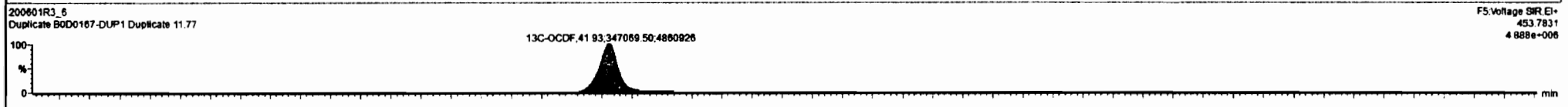
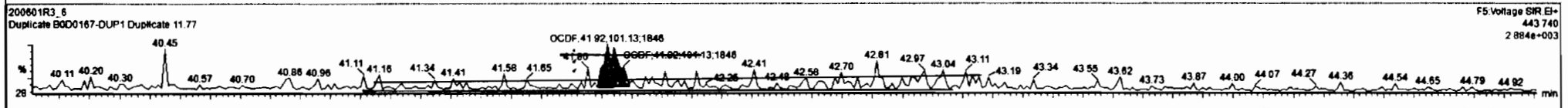
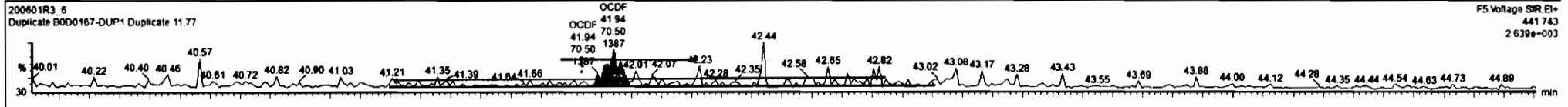
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_6, Date: 01-Jun-2020, Time: 18:56:32, ID: B0D0167-DUP1 Duplicate 11.77, Description: Duplicate



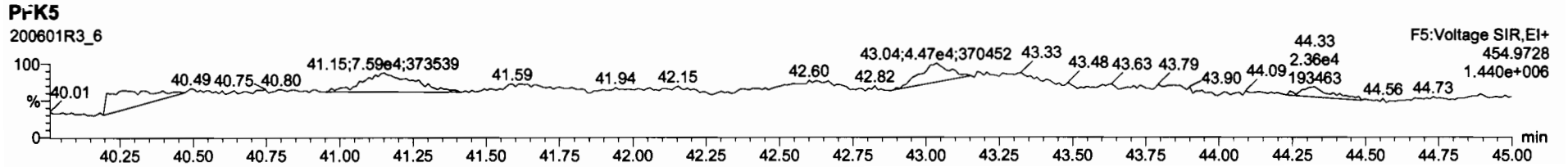
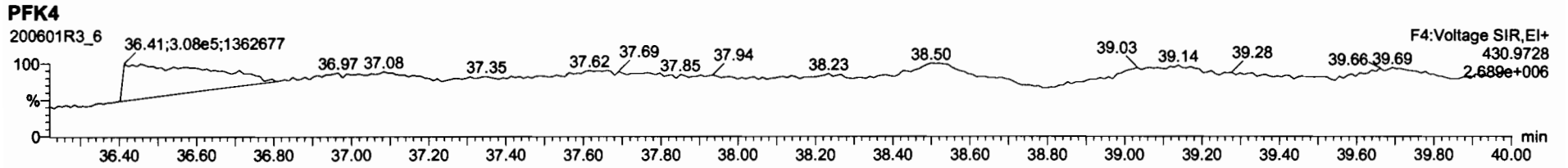
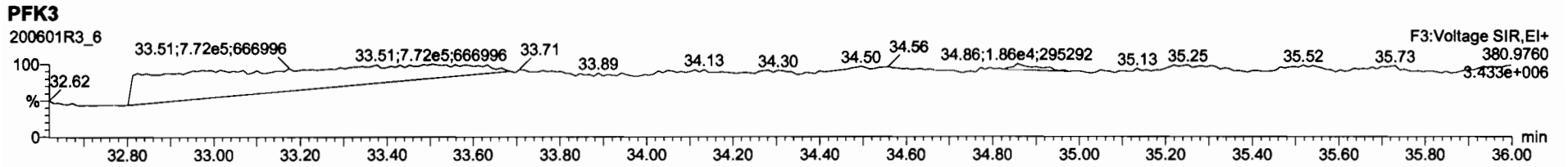
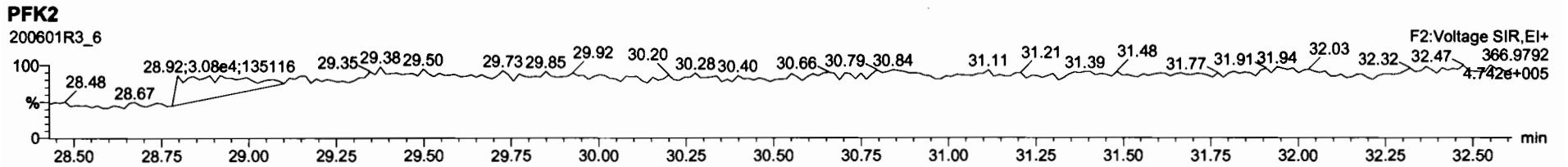
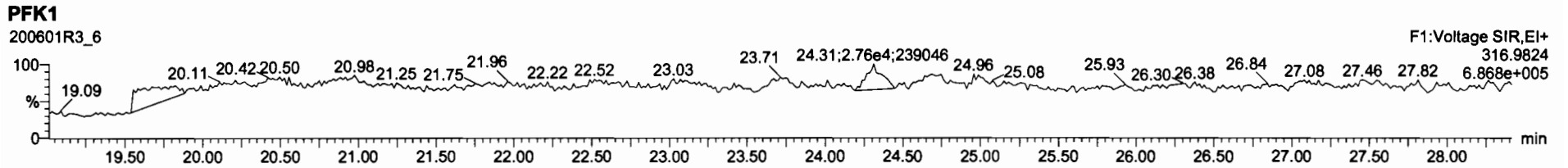
OCDF	9.13e3	0.83	NO	0.9136	10.006	41.75	1.000	0.79	0.203	0.79
2,3,7,8-TCDF			NO	0.7510	10.006				0.0335	
1,2,3,7,8-PeCDF			NO	0.8825	10.006				0.0372	
2,3,4,7,8-PeCDF			NO	0.9348	10.006				0.0365	
1,2,3,4,7,8-HxCDF			NO	0.8948	10.006				0.0524	
1,2,3,6,7,8-HxCDF			NO	0.8882	10.006				0.0535	
2,3,4,6,7,8-HxCDF			NO	0.9341	10.006				0.0543	
1,2,3,7,8,9-HxCDF			NO	0.8707	10.006				0.0795	
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.006				0.0633	
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.006				0.0636	
<hr/>										
13C-2,3,7,8-TCDD	9.00e5	0.78	NO	1.1563	10.006	28.51	1.025	181	90.7	0.147
13C-1,2,3,7,8-PeCDD	6.11e5	0.65	NO	0.8480	10.006	31.47	1.216	168	83.9	0.233
13C-1,2,3,4,7,8-HxCDD	4.88e5	1.30	NO	0.7790	10.006	34.84	1.014	162	81.1	0.437
13C-1,2,3,6,7,8-HxCDD	5.99e5	1.32	NO	1.0167	10.006	34.94	1.017	152	78.2	0.335
13C-1,2,3,7,8,9-HxCDD	5.38e5	1.25	NO	0.9027	10.006	35.23	1.025	154	77.0	0.377
13C-1,2,3,4,6,7,8-HpCDD	3.88e5	1.05	NO	0.8882	10.006	38.77	1.128	146	72.8	0.362
13C-OCDD	5.88e5	0.89	NO	0.6521	10.006	41.73	1.214	233	58.3	0.334
13C-2,3,7,8-TCDF	1.23e6	0.78	NO	1.0580	10.006	25.63	0.991	170	85.2	0.210
13C-1,2,3,7,8-PeCDF	9.72e5	1.61	NO	0.8580	10.006	30.18	1.167	171	85.4	0.358
13C-2,3,4,7,8-PeCDF	9.30e5	1.61	NO	0.8186	10.006	31.16	1.204	168	83.8	0.367



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_6, Date: 01-Jun-2020, Time: 18:56:32, ID: B0D0167-DUP1 Duplicate 11.77, Description: Duplicate



Dataset: U:\VG12.PRO\Results\200601R3\200601R3-8.qld

Last Altered: Tuesday, June 02, 2020 11:00:10 AM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 11:01:22 AM Pacific Daylight Time

GRB 06/02/2020

CT 06/05/2020

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: 200601R3_8, Date: 01-Jun-2020, Time: 20:28:57, ID: 2000855-02 PDI-047SC-A-05-06-191001 12.48, Description: PDI-047SC-A-05-06-191001

Peak	NA	RY	RRF	W	FWHM	Area	RT	RR	RRR	RRR1	RRR2	RRR3	RRR4	RRR5
1	2,3,7,8-TCDD	3.73e2	0.27	YES	0.888	10.070	26.546	26.51	1.001	1.000	0.11503	0.0594	0.0568	
2	1,2,3,7,8-PeCDD	2.56e2	0.96	YES	0.908	10.070	31.488	31.48	1.001	1.000	0.10462	0.0461	0.0844	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.070	34.846		1.000			0.0956		
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.070	34.943		1.000			0.0988		
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.070	35.231		1.000			0.106		
6	1,2,3,4,6,7,8-HpCDD	1.51e3	0.83	YES	0.864	10.070	38.768	38.78	1.000	1.001	0.92845	0.182	0.826	
7	OCDD	8.29e3	0.93	NO	0.914	10.070	41.738	41.75	1.000	1.000	5.8378	0.190	5.84	
8	2,3,7,8-TCDF			NO	0.751	10.070	25.641		1.001			0.0414		
9	1,2,3,7,8-PeCDF			NO	0.893	10.070	30.205		1.001			0.0400		
10	2,3,4,7,8-PeCDF			NO	0.935	10.070	31.192		1.001			0.0373		
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.070	33.963		1.000			0.0493		
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.070	34.090		1.000			0.0480		
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.070	34.701		1.001			0.0464		
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.070	35.592		1.000			0.0693		
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.070	37.397		1.001			0.0756		
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.070	39.299		1.000			0.0789		
17	OCDF			NO	0.806	10.070	41.940		1.000			0.101		
18	13C-2,3,7,8-TCDD	7.25e5	0.79	NO	1.16	10.070	26.538	26.51	1.026	1.025	150.44	75.7	0.178	
19	13C-1,2,3,7,8-PeCDD	5.51e5	0.65	NO	0.849	10.070	31.729	31.47	1.227	1.217	155.85	78.5	0.218	
20	13C-1,2,3,4,7,8-HxCDD	4.41e5	1.29	NO	0.779	10.070	34.841	34.84	1.014	1.014	154.41	77.7	0.431	
21	13C-1,2,3,6,7,8-HxCDD	5.39e5	1.29	NO	1.02	10.070	34.955	34.94	1.017	1.017	144.78	72.9	0.330	
22	13C-1,2,3,7,8,9-HxCDD	5.34e5	1.25	NO	0.903	10.070	35.226	35.22	1.025	1.025	161.47	81.3	0.372	
23	13C-1,2,3,4,6,7,8-HpCDD	3.75e5	1.06	NO	0.689	10.070	38.751	38.76	1.128	1.128	148.39	74.7	0.318	
24	13C-OCDD	6.17e5	0.91	NO	0.652	10.070	41.775	41.74	1.216	1.215	258.37	65.0	0.441	
25	13C-2,3,7,8-TCDF	9.75e5	0.78	NO	1.06	10.070	25.578	25.61	0.989	0.991	139.83	70.4	0.201	
26	13C-1,2,3,7,8-PeCDF	8.52e5	1.64	NO	0.838	10.070	30.111	30.18	1.165	1.167	154.45	77.8	0.484	
27	13C-2,3,4,7,8-PeCDF	8.18e5	1.64	NO	0.817	10.070	31.065	31.16	1.202	1.205	152.16	76.6	0.497	
28	13C-1,2,3,4,7,8-HxCDF	5.75e5	0.50	NO	1.01	10.070	33.972	33.96	0.989	0.989	155.71	78.4	0.551	
29	13C-1,2,3,6,7,8-HxCDF	6.42e5	0.51	NO	1.17	10.070	34.096	34.08	0.992	0.992	150.24	75.6	0.476	
30	13C-2,3,4,6,7,8-HxCDF	6.26e5	0.50	NO	1.02	10.070	34.670	34.67	1.009	1.009	167.32	84.2	0.543	
31	13C-1,2,3,7,8,9-HxCDF	5.14e5	0.52	NO	0.860	10.070	35.570	35.59	1.035	1.036	163.31	82.2	0.646	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-8.qld

Last Altered: Tuesday, June 02, 2020 11:00:10 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 11:01:22 AM Pacific Daylight Time

Name: 200601R3_8, Date: 01-Jun-2020, Time: 20:28:57, ID: 2000855-02 PDI-047SC-A-05-06-191001 12.48, Description: PDI-047SC-A-05-06-191001

32	13C-1,2,3,4,6,7,8-HpCDF	4.31e5	0.44	NO	0.774	10.070	37.319	37.36	1.086	1.087	151.90	76.5	0.441	
33	13C-1,2,3,4,7,8,9-HpCDF	3.04e5	0.44	NO	0.521	10.070	39.349	39.30	1.145	1.144	159.04	80.1	0.655	
34	13C-OCDF	7.33e5	0.89	NO	0.746	10.070	41.946	41.94	1.221	1.221	268.39	67.6	0.273	
35	37Cl-2,3,7,8-TCDD	2.98e5			1.04	10.070	26.569	26.53	1.028	1.026	68.877	86.7	0.0373	
36	13C-1,2,3,4-TCDD	8.27e5	0.81	NO	1.00	10.070	25.890	25.85	1.000	1.000	198.62	100	0.206	
37	13C-1,2,3,4-TCDF	1.31e6	0.79	NO	1.00	10.070	24.360	24.18	1.000	1.000	198.62	100	0.213	
38	13C-1,2,3,4,6,9-HxCDF	7.28e5	0.51	NO	1.00	10.070	34.420	34.36	1.000	1.000	198.62	100	0.555	
39	Total Tetra-Dioxins				0.888	10.070	24.620		0.000		0.00000		0.0311	0.138
40	Total Penta-Dioxins				0.908	10.070	29.960		0.000		0.24613		0.0481	0.515
41	Total Hexa-Dioxins				0.892	10.070	33.635		0.000		1.0511		0.105	1.05
42	Total Hepta-Dioxins				0.864	10.070	37.640		0.000		1.4078		0.182	2.23
43	Total Tetra-Furans				0.751	10.070	23.610		0.000				0.0199	
44	1st Func. Penta-Furans				0.893	10.070	27.580		0.000				0.00846	
45	Total Penta-Furans				0.893	10.070	29.275		0.000				0.0185	
46	Total Hexa-Furans				0.934	10.070	33.555		0.000				0.0236	
47	Total Hepta-Furans				0.873	10.070	37.835		0.000				0.0420	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-8.qld
 Last Altered: Tuesday, June 02, 2020 11:00:10 AM Pacific Daylight Time
 Printed: Tuesday, June 02, 2020 11:01:22 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: 200601R3_8, Date: 01-Jun-2020, Time: 20:28:57, ID: 2000855-02 PDI-047SC-A-05-06-191001 12.48, Description: PDI-047SC-A-05-06-191001

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Cap	EMSW	IDL
Total Tetra-Dioxins	24.36	2.792e3	3.348e3	1.415e2	1.488e2	0.95	YES	0.000e0	0.00000	0.081256	0.0311
2,3,7,8-TCDD	26.51	2.223e3	5.301e3	8.008e1	2.928e2	0.27	YES	3.728e2	0.00000	0.056797	0.0594

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Cap	EMSW	IDL
Total Penta-Dioxins	29.24	2.268e3	5.026e3	1.162e2	2.014e2	0.58	NO	3.176e2	0.12603	0.12603	0.0481
Total Penta-Dioxins	29.73	2.805e3	3.775e3	1.184e2	1.843e2	0.64	NO	3.027e2	0.12010	0.12010	0.0481
Total Penta-Dioxins	30.41	2.274e3	3.377e3	9.515e1	1.144e2	0.83	YES	0.000e0	0.00000	0.073991	0.0481
Total Penta-Dioxins	30.70	2.504e3	2.526e3	1.509e2	1.713e2	0.88	YES	0.000e0	0.00000	0.11081	0.0481
1,2,3,7,8-PeCDD	31.48	3.568e3	2.892e3	1.256e2	1.305e2	0.96	YES	2.561e2	0.00000	0.084390	0.0481

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Cap	EMSW	IDL
Total Hexa-Dioxins	33.36	1.721e4	1.384e4	8.463e2	5.996e2	1.41	NO	1.446e3	0.63783	0.63783	0.105
Total Hexa-Dioxins	34.17	1.126e4	5.856e3	5.200e2	4.170e2	1.25	NO	9.370e2	0.41330	0.41330	0.105

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Cap	EMSW	IDL
Total Hepta-Dioxins	37.75	1.680e4	1.561e4	1.212e3	1.082e3	1.12	NO	2.294e3	1.4078	1.4078	0.182
1,2,3,4,6,7,8-HpCDD	38.78	1.104e4	1.184e4	6.863e2	8.234e2	0.83	YES	1.510e3	0.00000	0.82610	0.182

Tetra-Furans

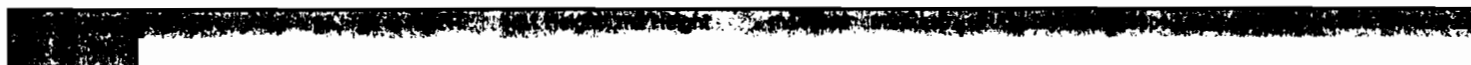
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Cap	EMSW	IDL

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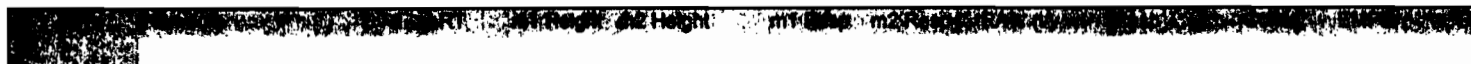
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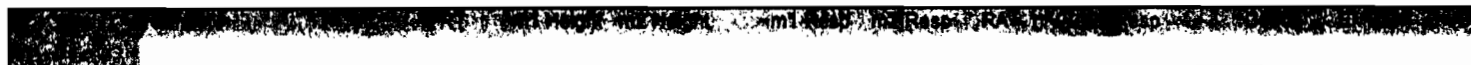
Penta-Furans function 1



Penta-Furans



Hexa-Furans



Hepta-Furans



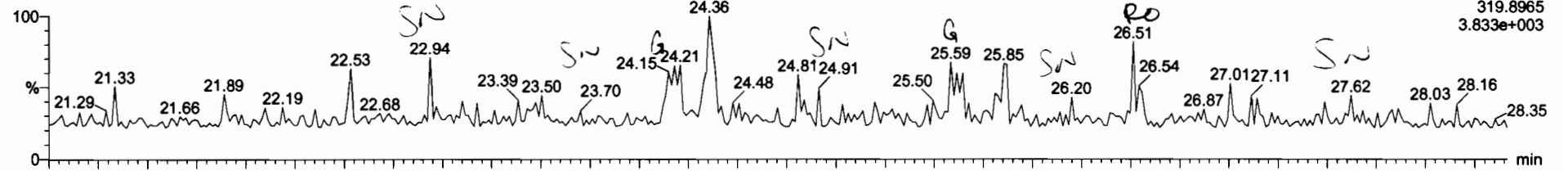
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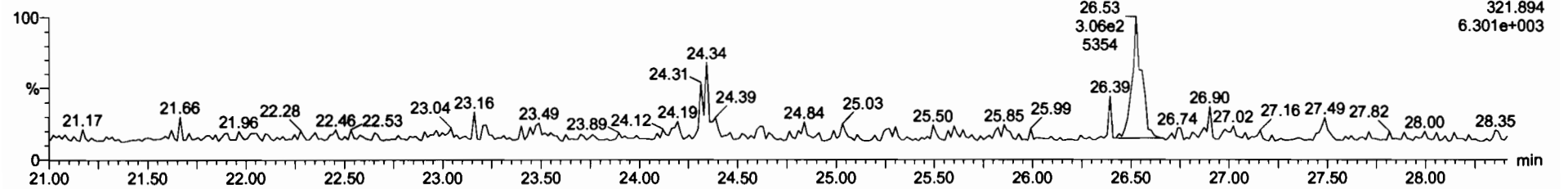
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2,3,7,8-TCDD

200601R3_8

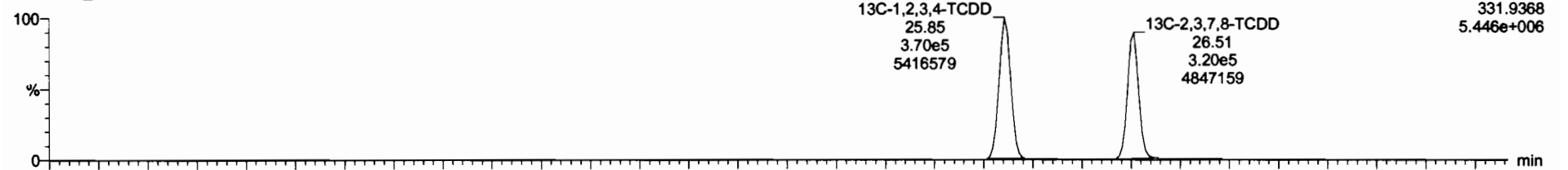


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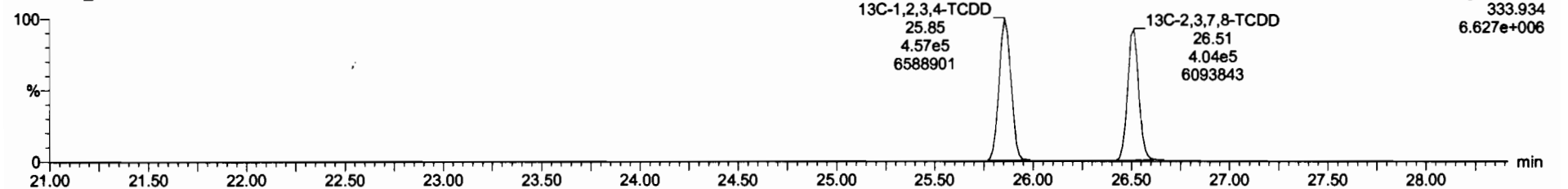


13C-2,3,7,8-TCDD

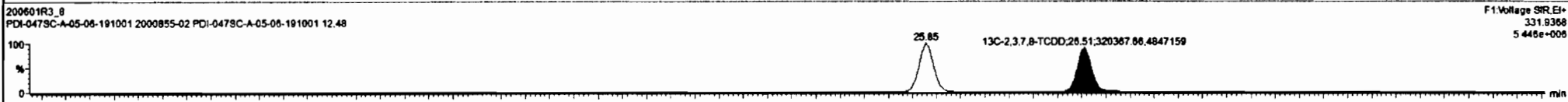
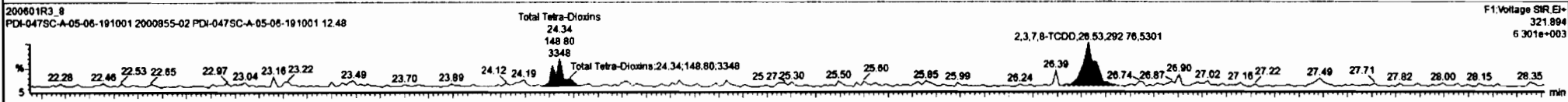
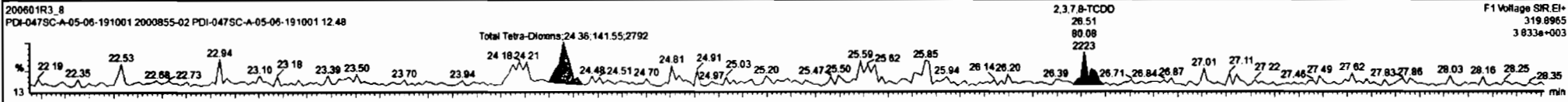
200601R3_8



200601R3_8



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Total Penta-Dioxins				0.9081	10.070			0.240		0.0481 0.515
Total Hexa-Dioxins				0.8823	10.070			1.05		0.105 1.05
Total Hepta-Dioxins				0.8630	10.070			1.41		0.182 2.23
Total Tetra-Furans				0.7510	10.070					0.0199
1st Func. Penta-Furans				0.8825	10.070					0.00848
Total Penta-Furans				0.8825	10.070					0.0185
Total Hexa-Furans				0.8341	10.070					0.0236
Total Hepta-Furans				0.8734	10.070					0.0420
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



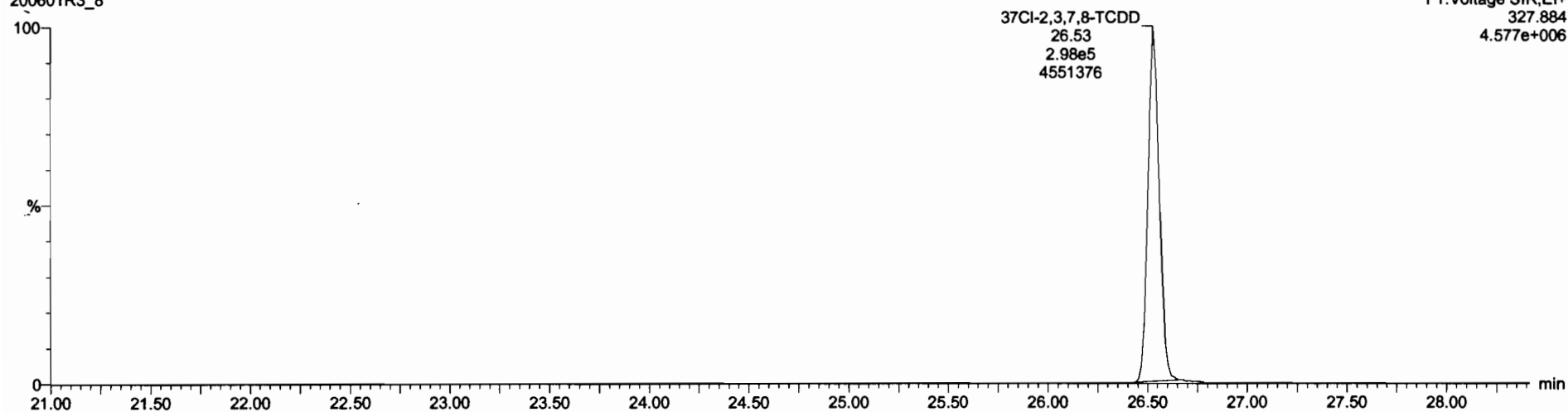
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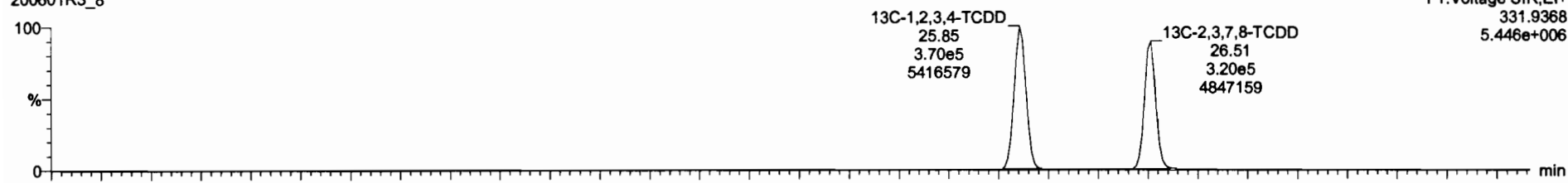
37Cl-2,3,7,8-TCDD

200601R3_8

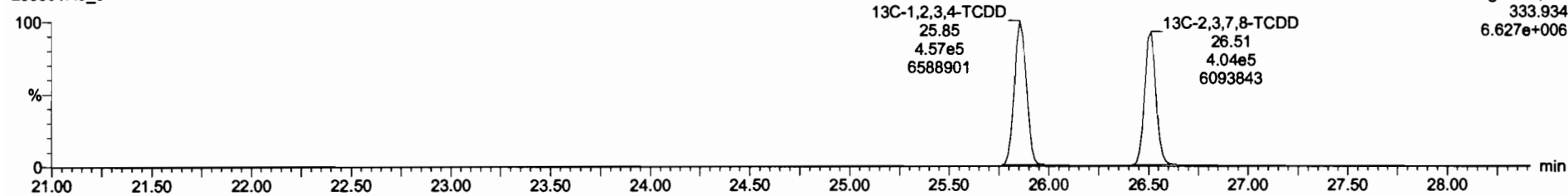


13C-1,2,3,4-TCDD

200601R3_8



200601R3_8



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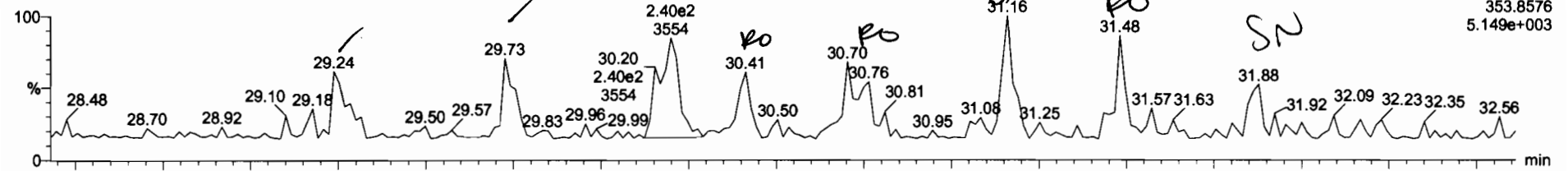
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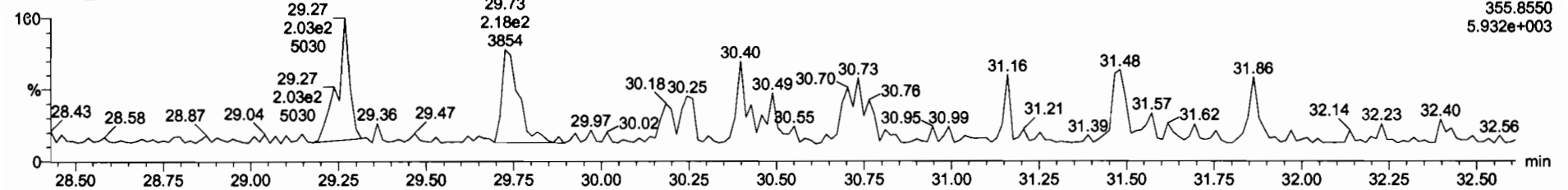
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1,2,3,7,8-PeCDD

200601R3_8

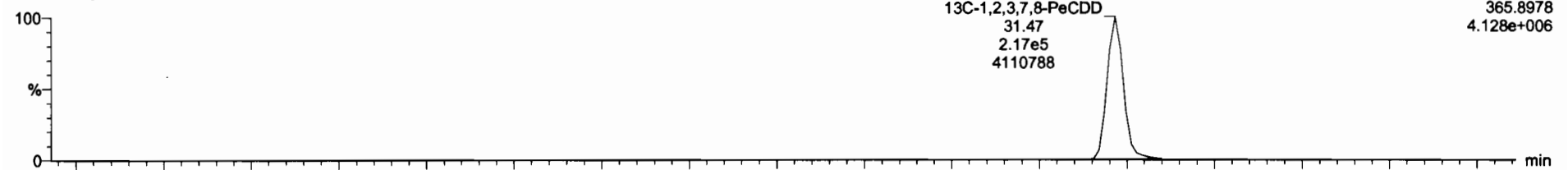


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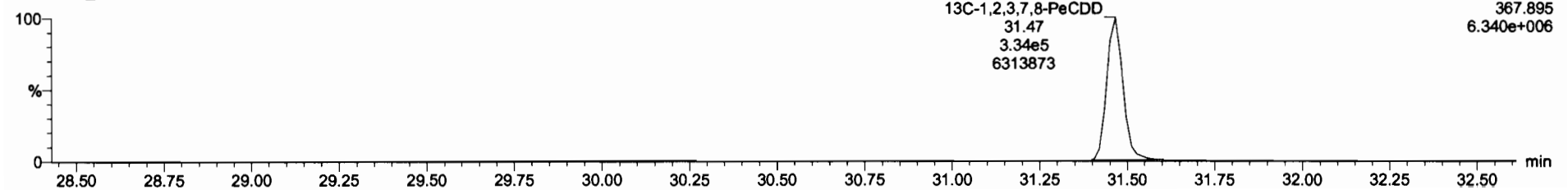


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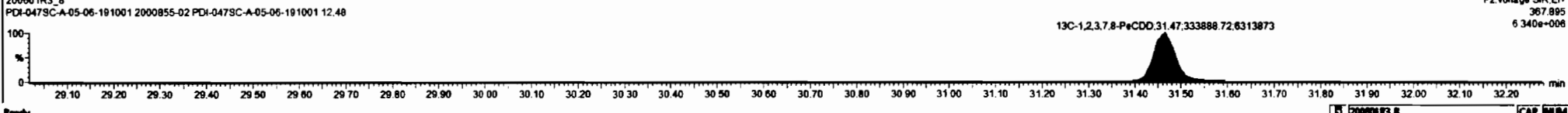
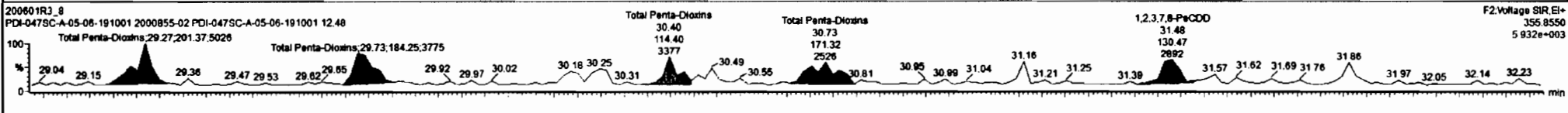
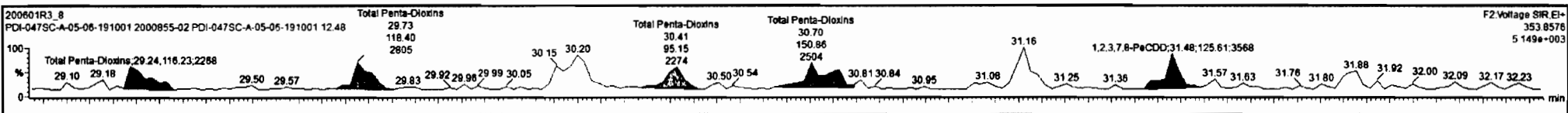
200601R3_8



200601R3_8



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Total Tetra-Dioxins				0.0083	10.070			0.000		0.0311 0.138
Total Hexa-Dioxins				0.0023	10.070			1.05		0.105 1.05
Total Hepta-Dioxins				0.0030	10.070			1.41		0.182 2.23
Total Tetra-Furans				0.7510	10.070					0.0199
1st Func. Penta-Furans				0.0025	10.070					0.00848
Total Penta-Furans				0.0025	10.070					0.0185
Total Hexa-Furans				0.9341	10.070					0.0236
Total Hepta-Furans				0.8734	10.070					0.0420
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										

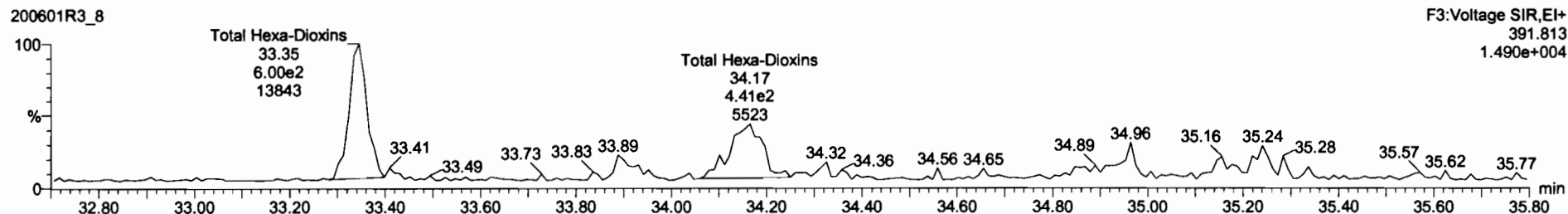
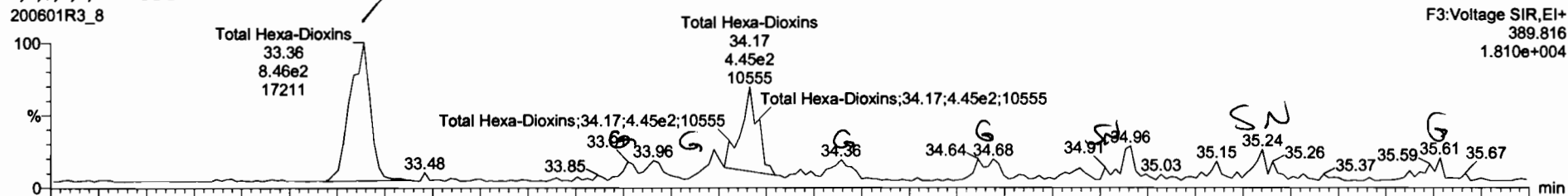


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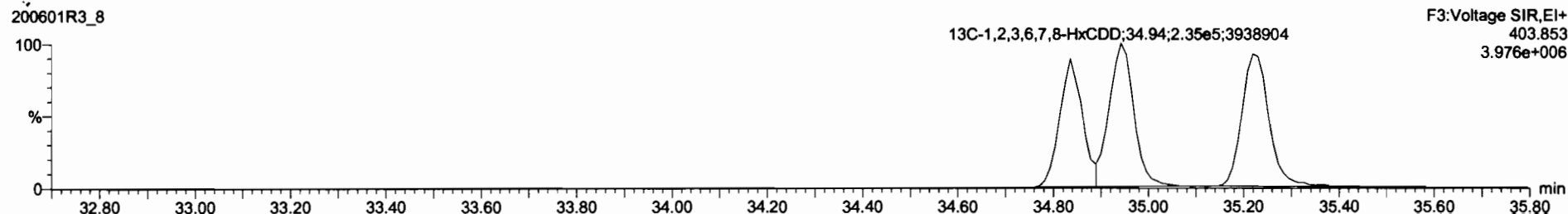
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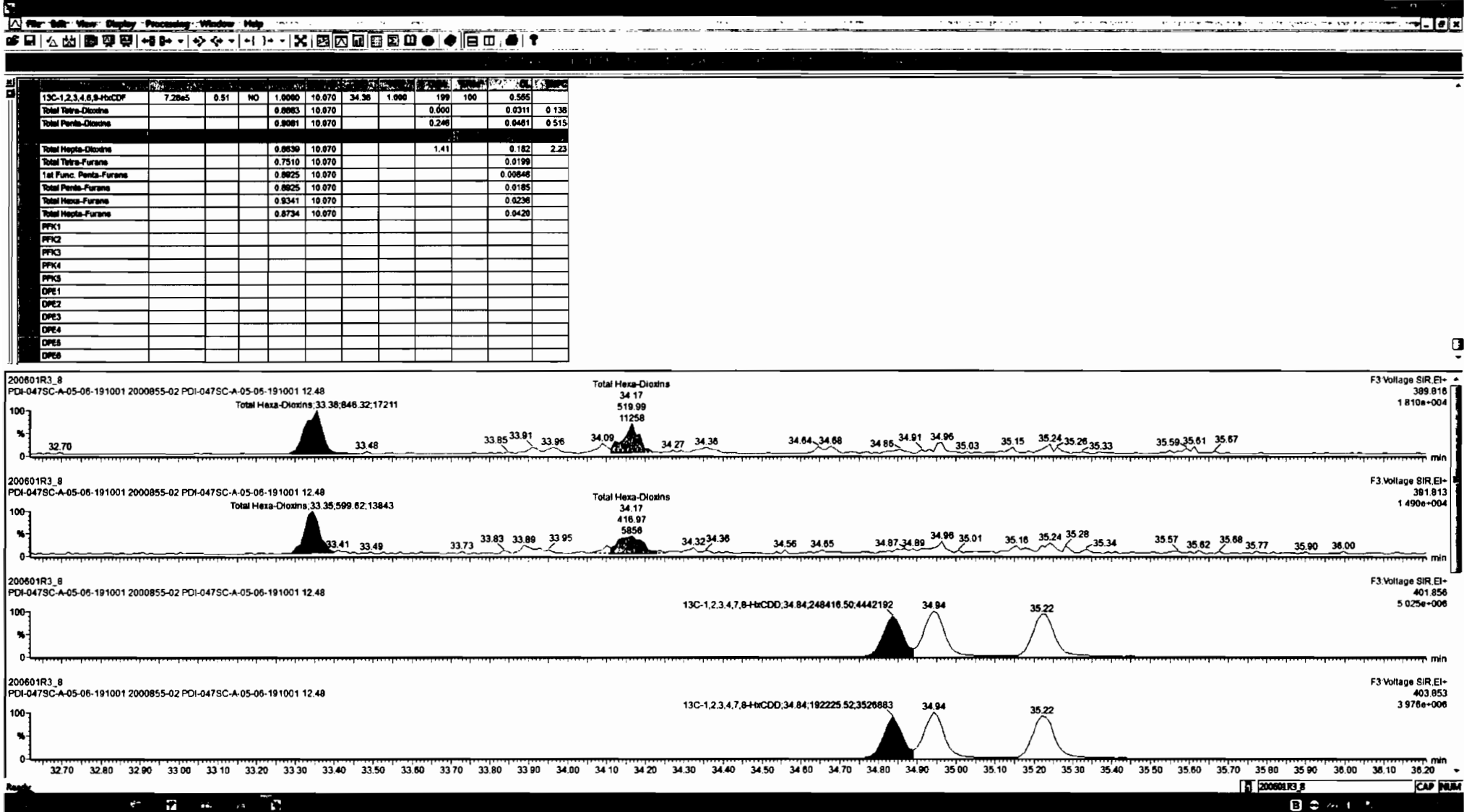
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1,2,3,4,7,8-HxCDD



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





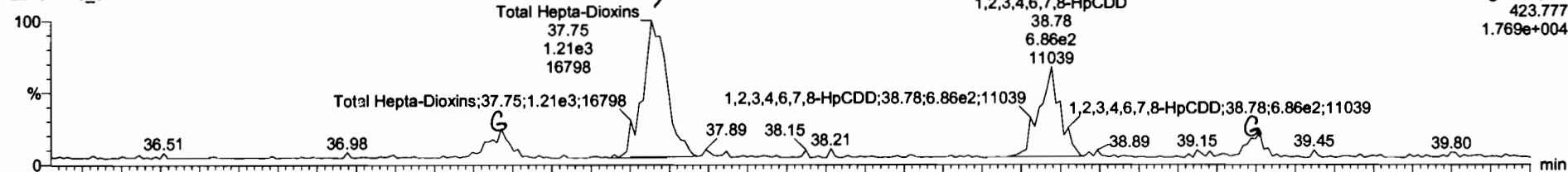
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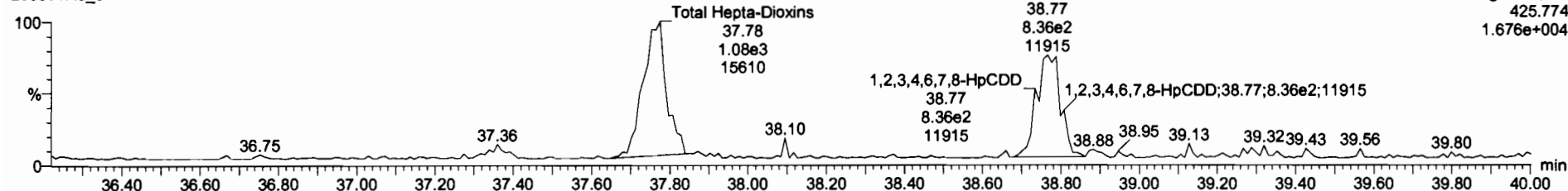
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1,2,3,4,6,7,8-HpCDD

200601R3_8

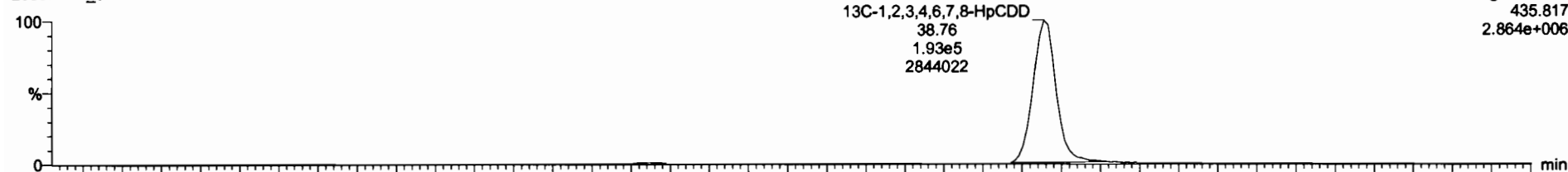


200601R3_8

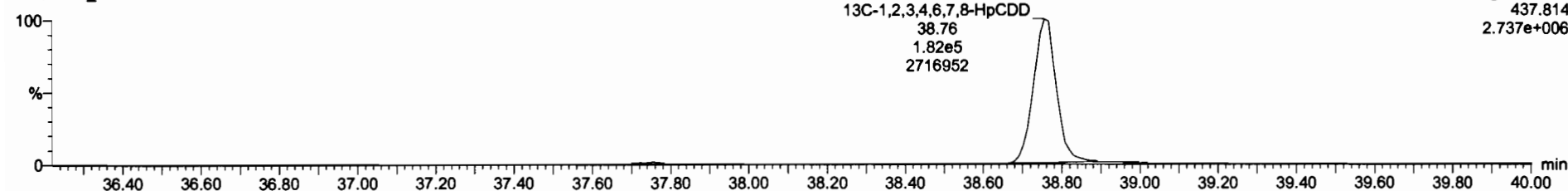


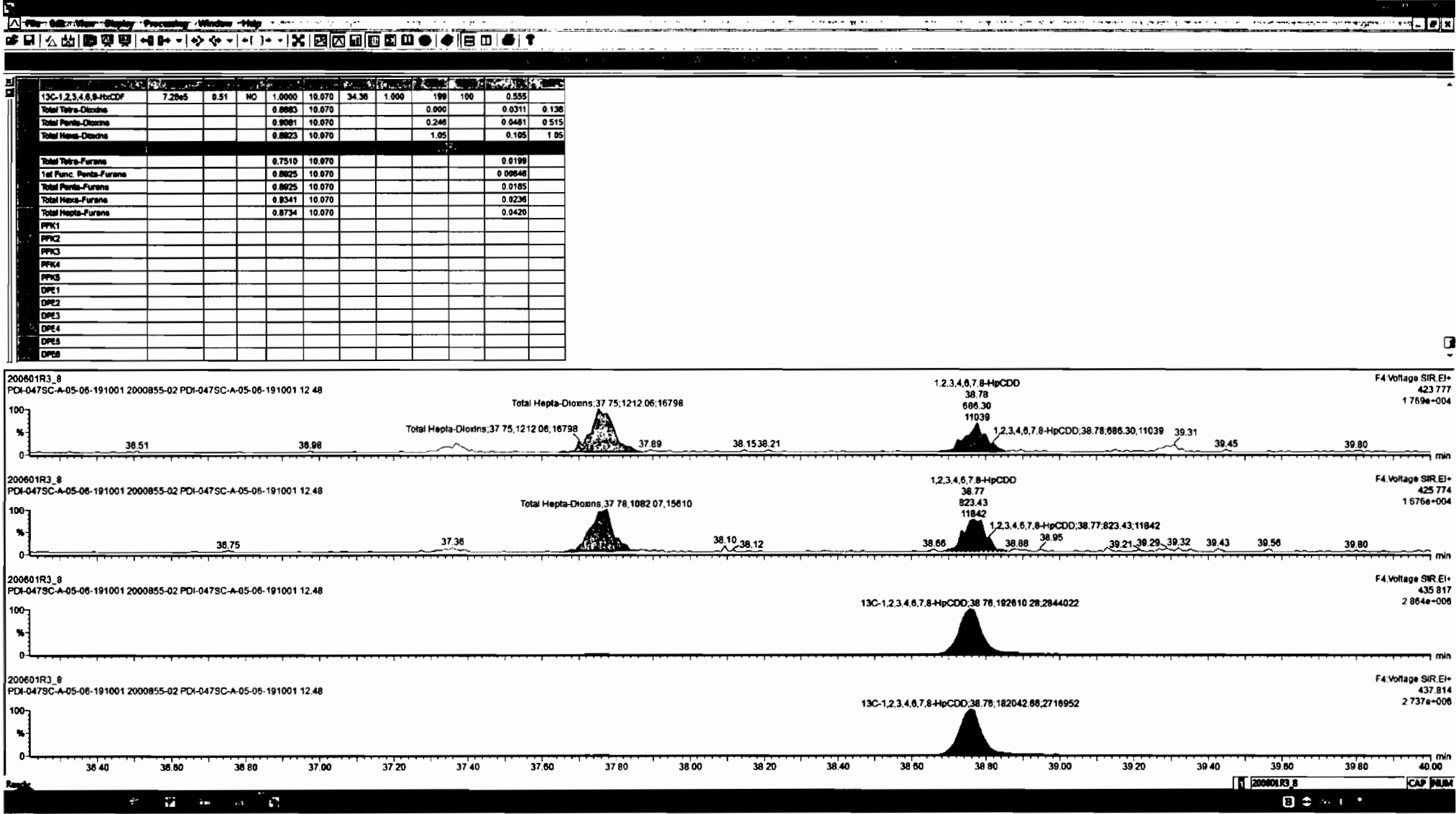
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200601R3_8



200601R3_8





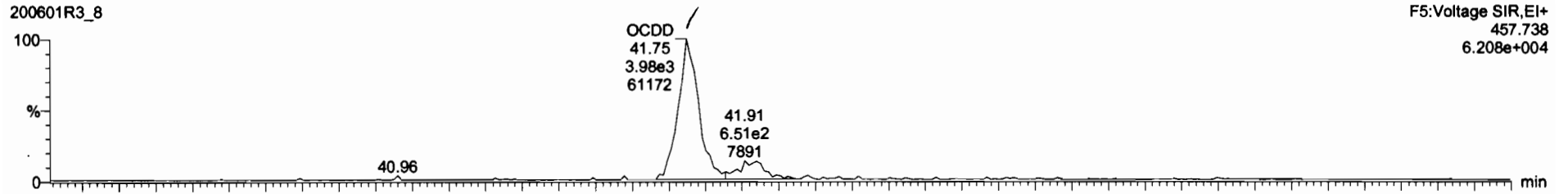
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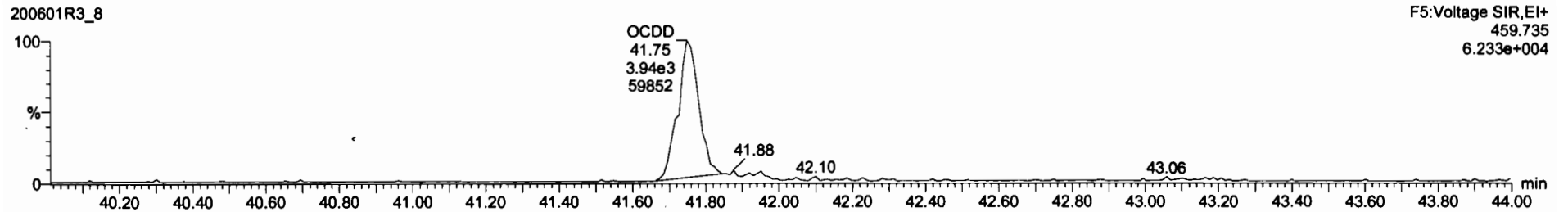
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OCDD

200601R3_8

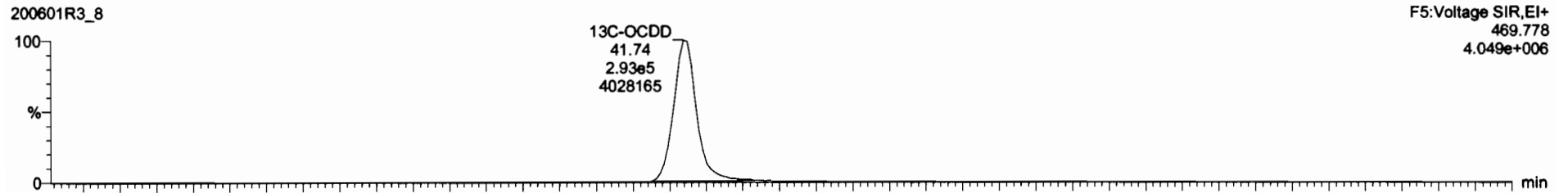


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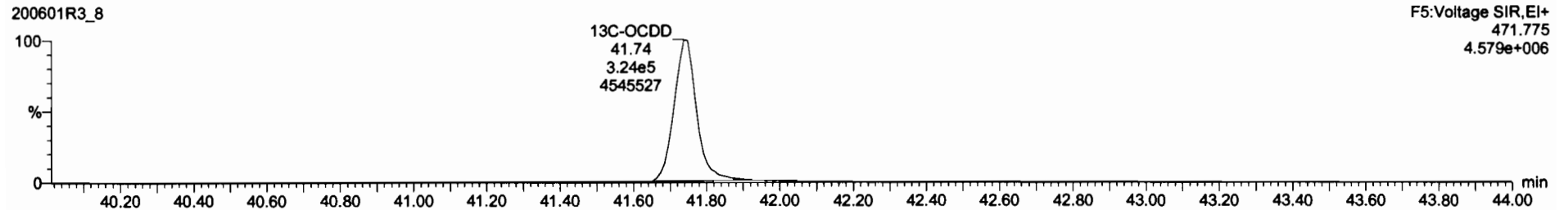


13C-OCDD

200601R3_8



200601R3_8



File Edit View Display Processing Windows Help

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1,2,3,7,8-PeCDF			NO	0.8825	10.070					0.0400
2,3,4,7,8-PeCDF			NO	0.8348	10.070					0.0373
1,2,3,4,7,8-HxCDF			NO	0.8645	10.070					0.0483
1,2,3,6,7,8-HxCDF			NO	0.8882	10.070					0.0480
2,3,4,6,7,8-HxCDF			NO	0.9341	10.070					0.0464
1,2,3,7,8,9-HxCDF			NO	0.8787	10.070					0.8693
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.070					0.0756
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OCDF			NO	0.8085	10.070					0.101
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13C-OCDD	8.17e5	0.90	NO	0.8521	10.070	41.74	1.215	258	85.0	0.441
13C-2,3,7,8-TCDF	9.75e5	0.78	NO	1.0580	10.070	25.61	0.991	140	70.4	0.201
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200601R3_8
PDI-047SC-A-05-06-191001 2000855-02 PDI-047SC-A-05-05-191001 12.48

F5 Voltage SIR.EI+
457.738
6.208e+004

200601R3_8
PDI-047SC-A-05-06-191001 2000855-02 PDI-047SC-A-05-06-191001 12.48

F5 Voltage SIR.EI+
459.735
6.233e+004

200601R3_8
PDI-047SC-A-05-06-191001 2000855-02 PDI-047SC-A-05-06-191001 12.48

F5 Voltage SIR.EI+
469.778
4.049e+006

200601R3_8
PDI-047SC-A-05-06-191001 2000855-02 PDI-047SC-A-05-06-191001 12.48

F5 Voltage SIR.EI+
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Custom Reporting: Select reports to generate

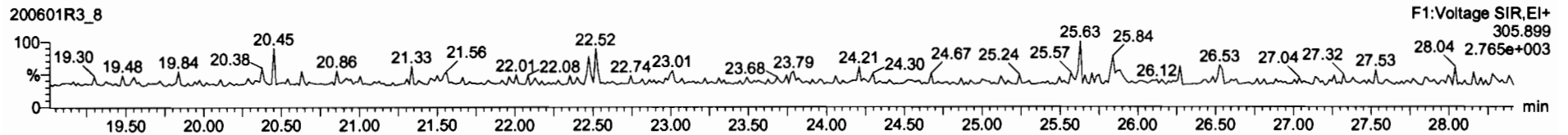
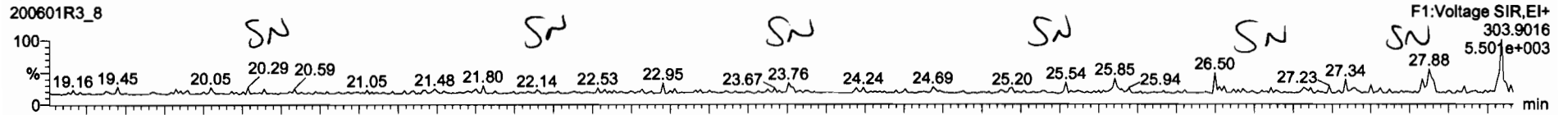
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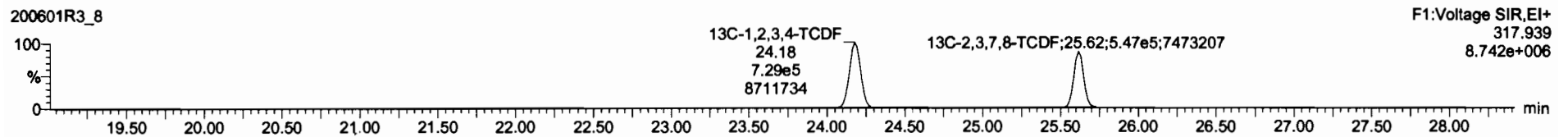
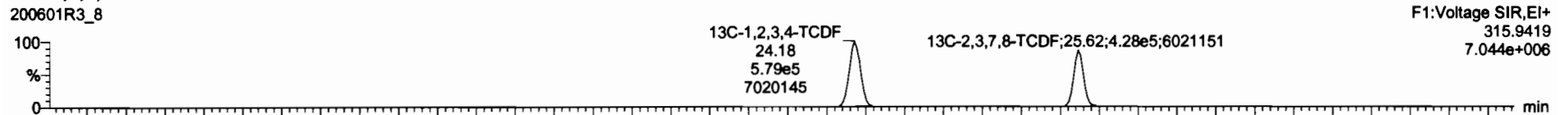
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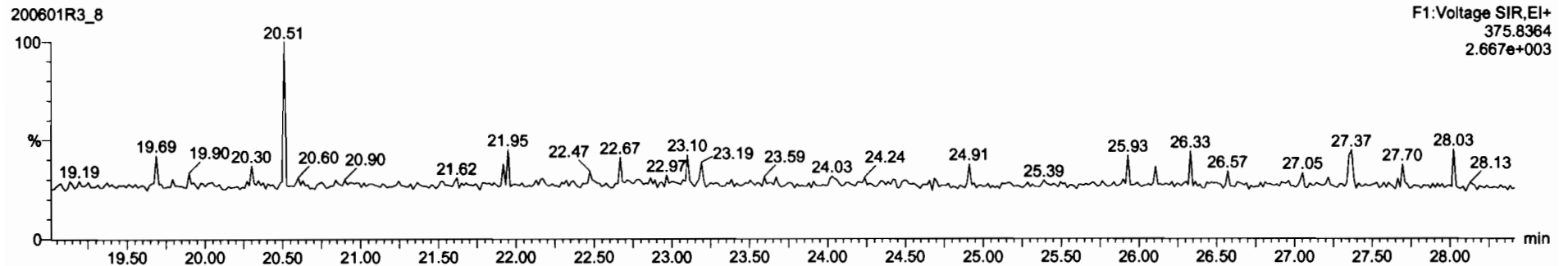
2,3,7,8-TCDF



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



DPE1



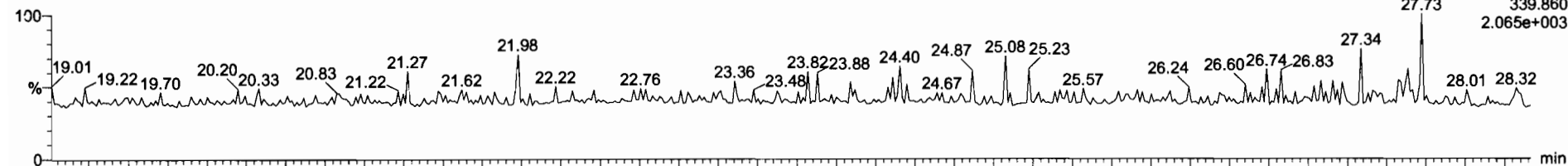
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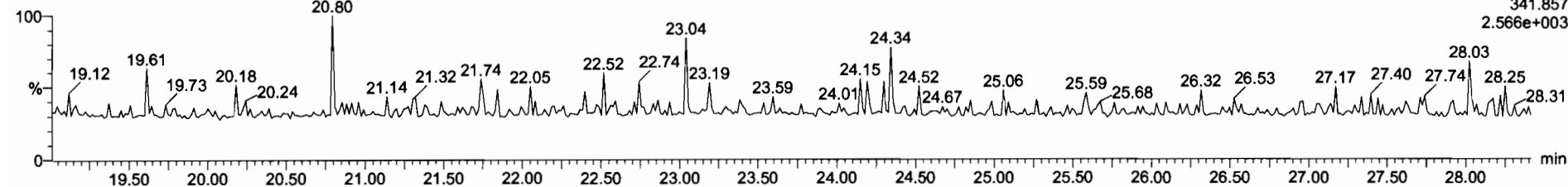
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1st Func. Penta-Furans

200601R3_8

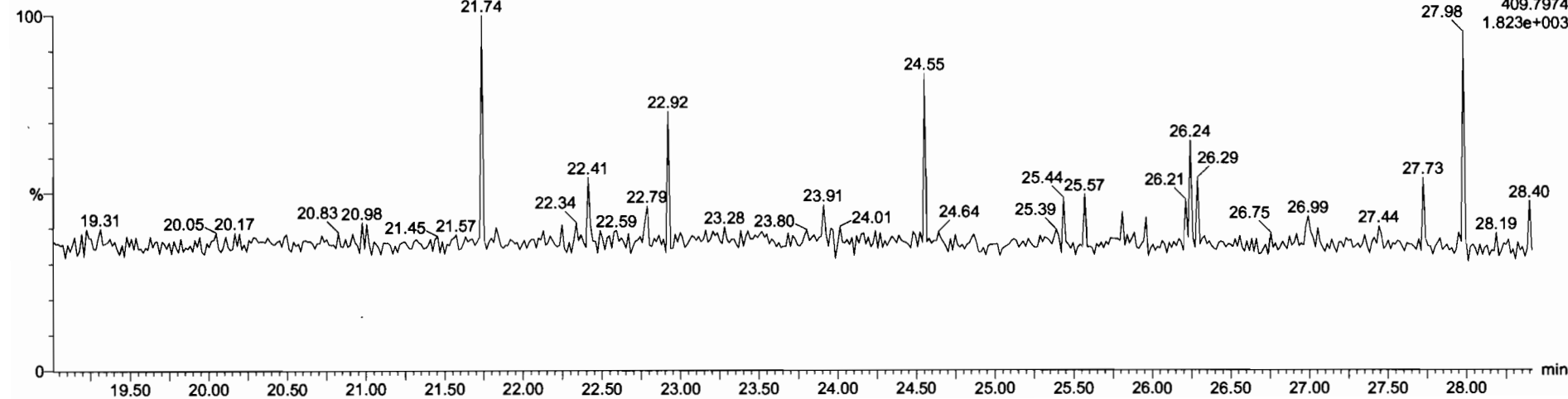


200601R3_8



DPE6

200601R3_8

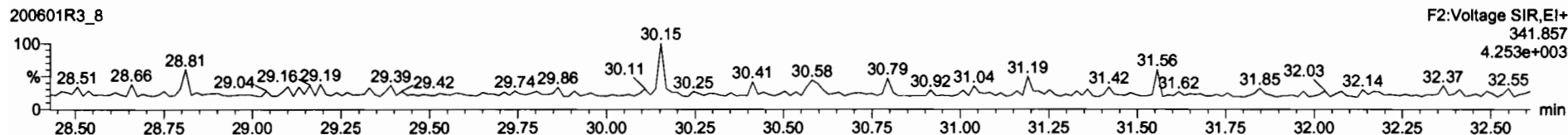
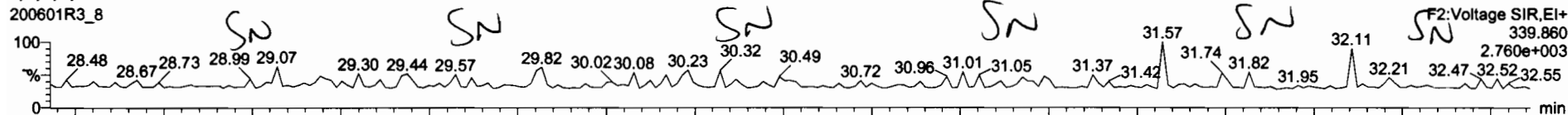


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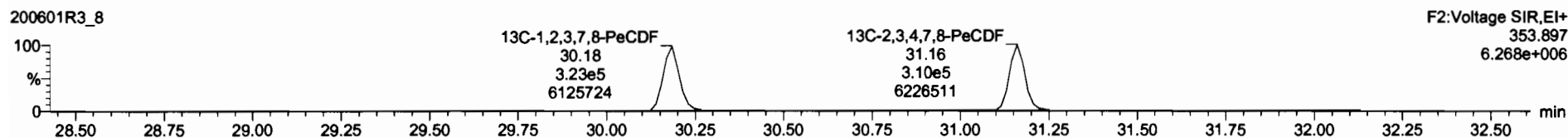
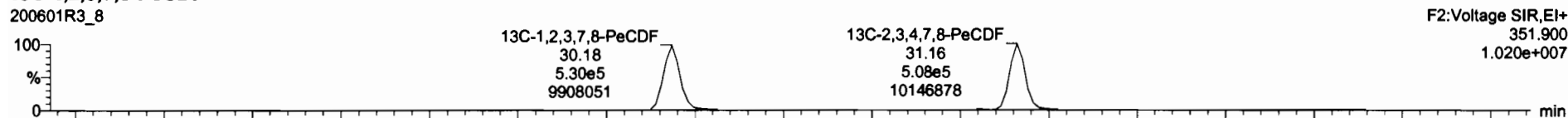
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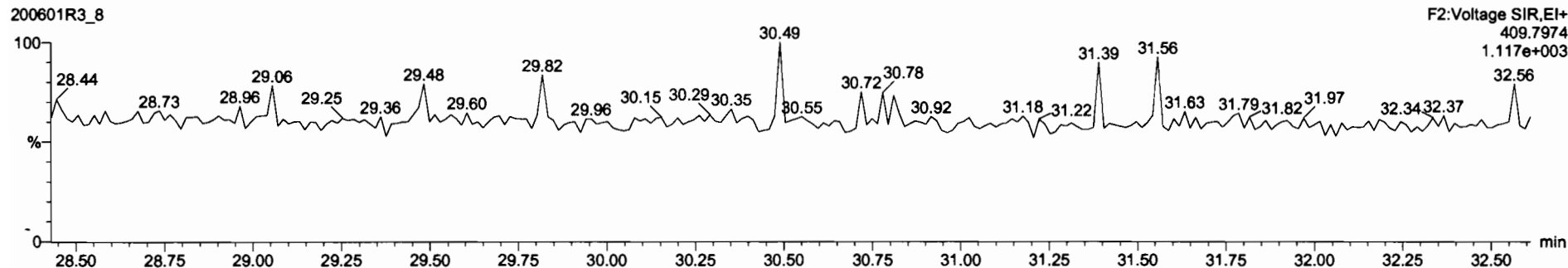
1,2,3,7,8-PeCDF



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



DPE2

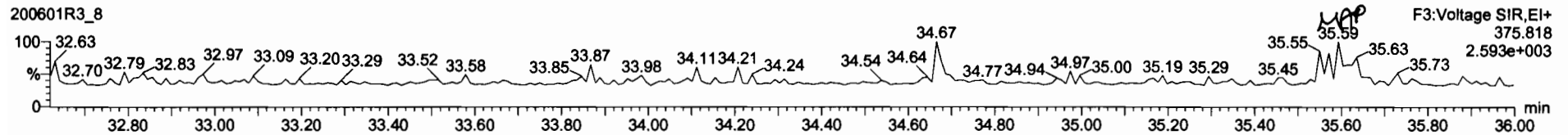
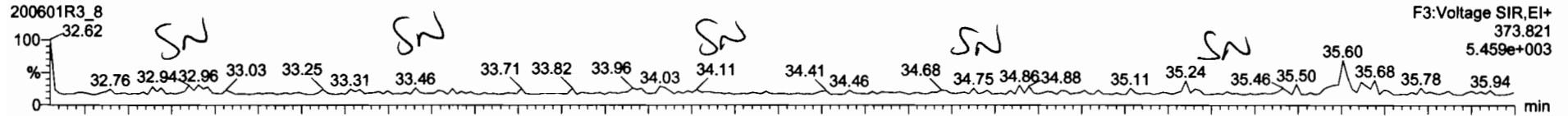


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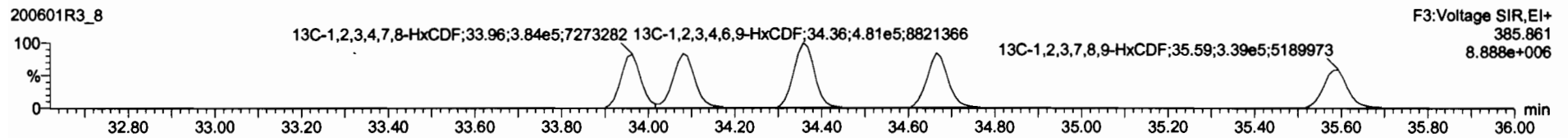
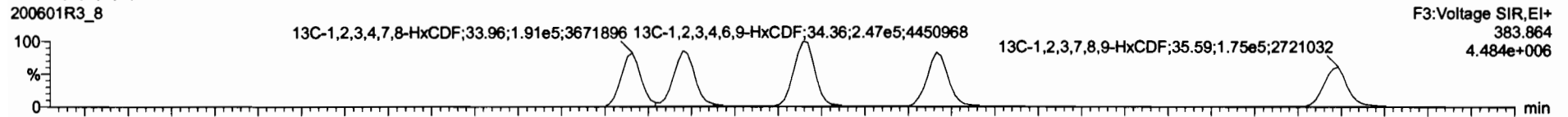
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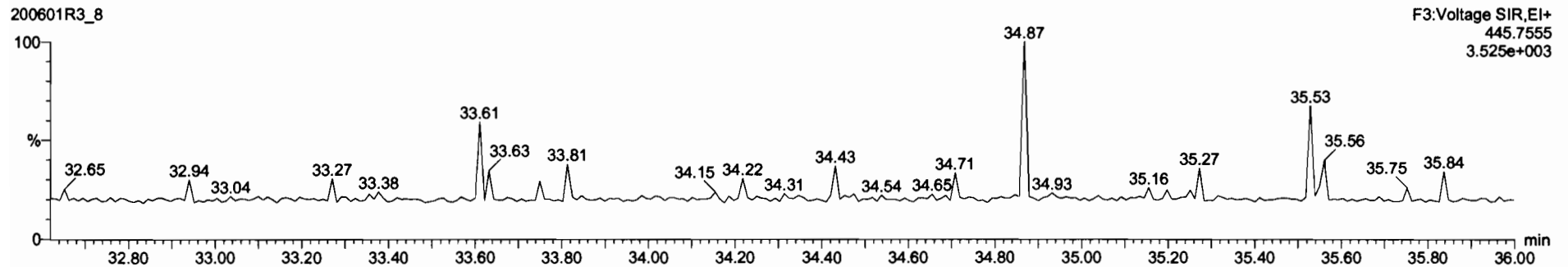
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13C-1,2,3,4,7,8-HxCDF



DPE3



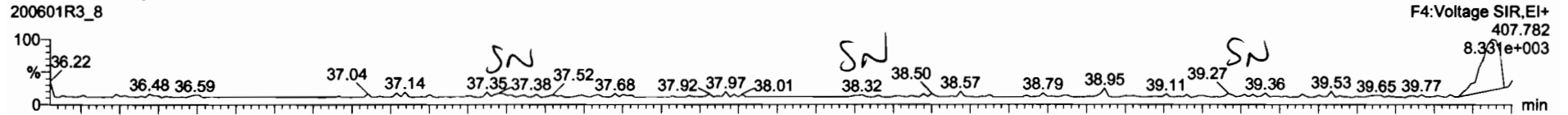
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

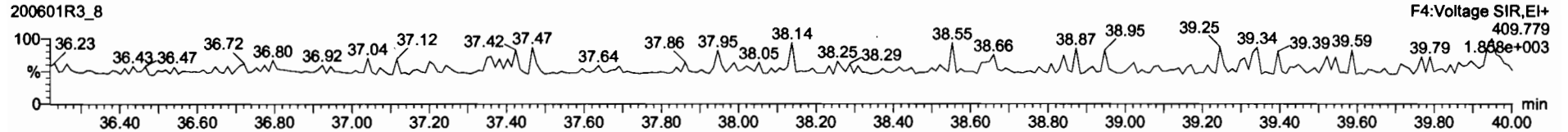
Name: 200601R3_8, Date: 01-Jun-2020, Time: 20:28:57, ID: 2000855-02 PDI-047SC-A-05-06-191001 12.48, Description: PDI-047SC-A-05-06-191001

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

200601R3_8

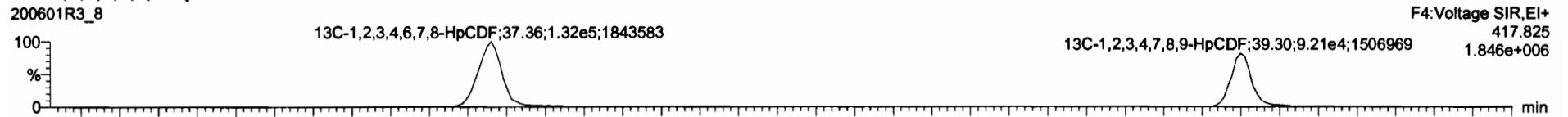


200601R3_8

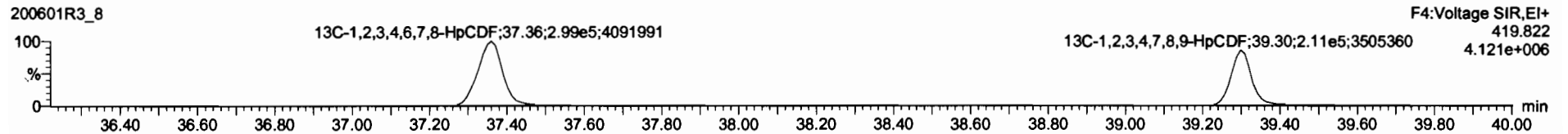


13C-1,2,3,4,6,7,8-HpCDF

200601R3_8

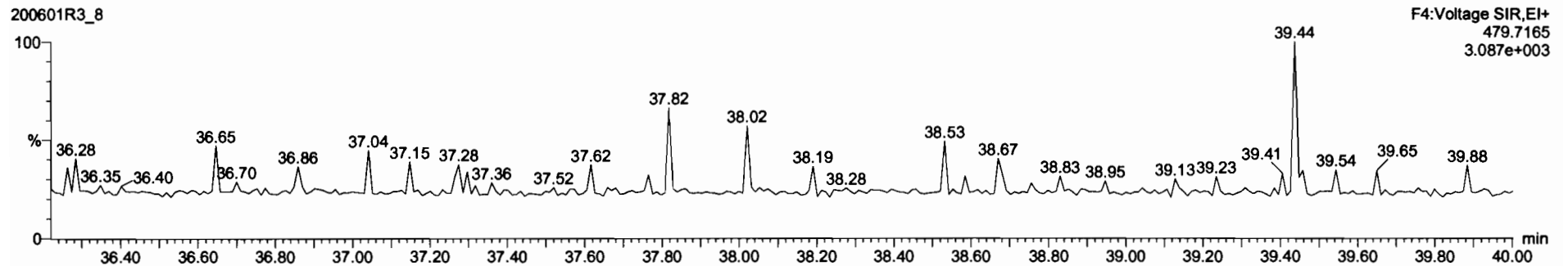


200601R3_8



DPE4

200601R3_8

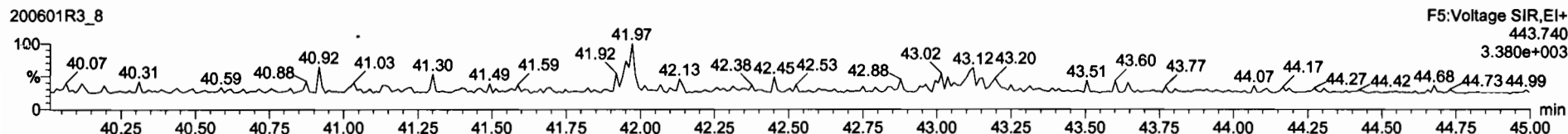
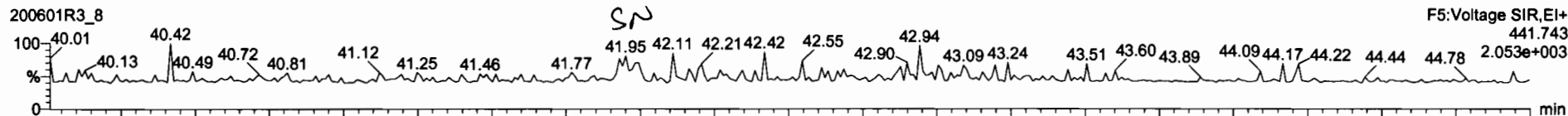


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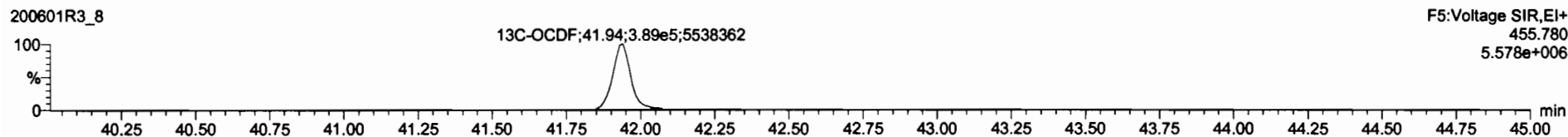
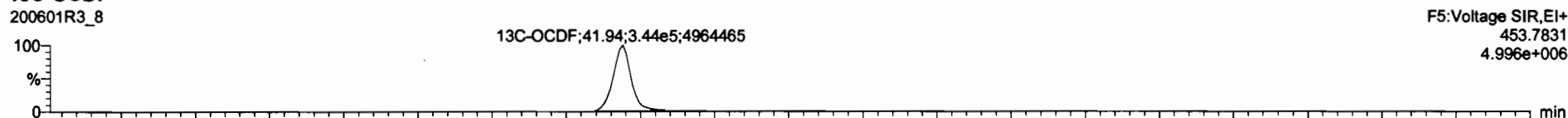
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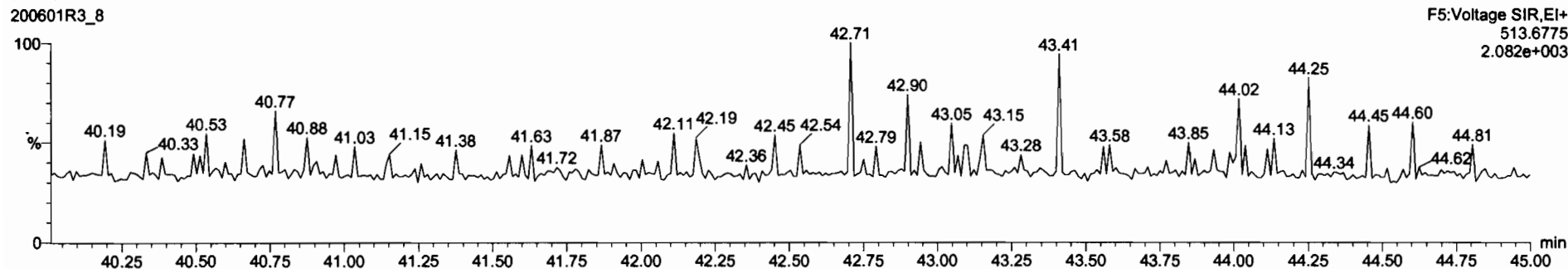
OCDF



13C-OCDF



DPE5

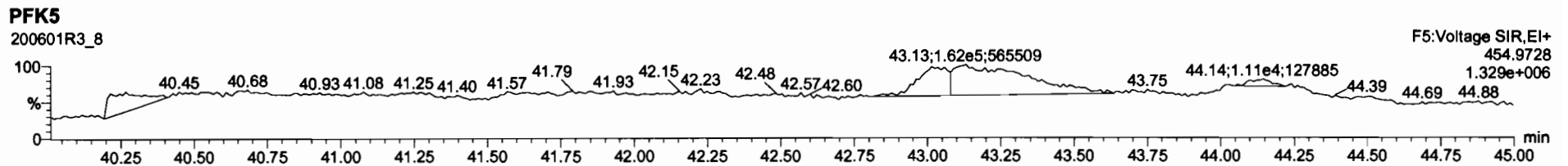
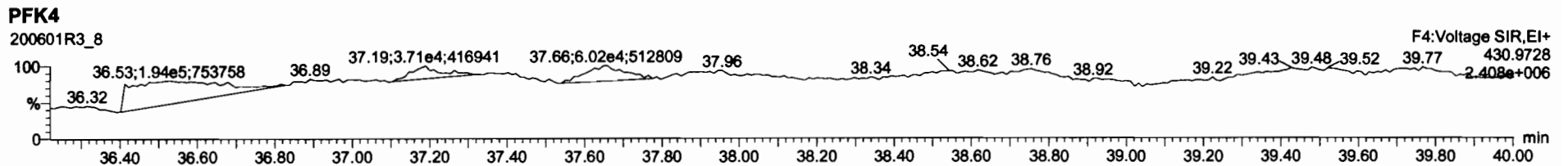
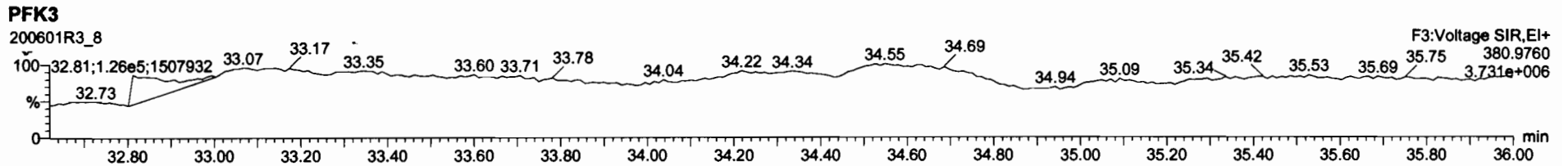
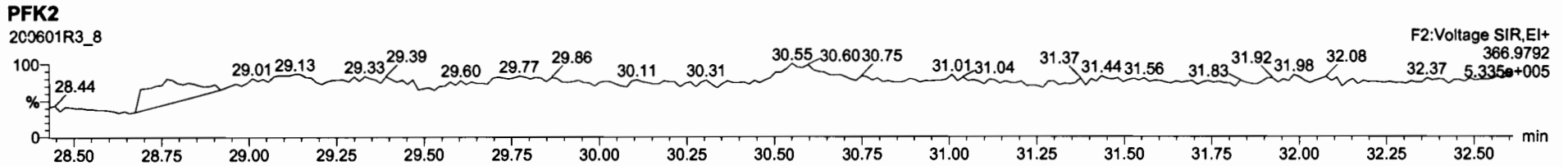
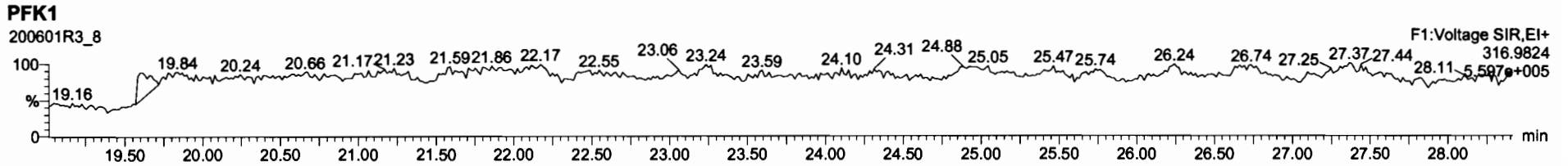


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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_8, Date: 01-Jun-2020, Time: 20:28:57, ID: 2000855-02 PDI-047SC-A-05-06-191001 12.48, Description: PDI-047SC-A-05-06-191001



Dataset: U:\VG12.PRO\Results\200601R3\200601R3-9.qld

Last Altered: Tuesday, June 02, 2020 11:12:44 AM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 11:14:13 AM Pacific Daylight Time

GPB 06/02/2020

CT 06/05/2020

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

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

Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

1	2,3,7,8-TCDD			NO	0.888	10.025	26.546		1.001				0.0629	
2	1,2,3,7,8-PeCDD			NO	0.908	10.025	31.488		1.001				0.107	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.025	34.857		1.000				0.121	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.025	34.953		1.000				0.124	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.025	35.241		1.000				0.133	
6	1,2,3,4,6,7,8-HpCDD	1.18e3	1.12	NO	0.864	10.025	38.778	38.78	1.000	1.000	0.67505		0.134	0.675
7	OCDD	7.69e3	0.89	NO	0.914	10.025	41.738	41.76	1.000	1.001	5.4187		0.143	5.42
8	2,3,7,8-TCDF			NO	0.751	10.025	25.657		1.001				0.0300	
9	1,2,3,7,8-PeCDF			NO	0.893	10.025	30.205		1.001				0.0366	
10	2,3,4,7,8-PeCDF			NO	0.935	10.025	31.192		1.001				0.0356	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.025	33.963		1.000				0.0590	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.025	34.101		1.000				0.0552	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.025	34.711		1.001				0.0587	
14	1,2,3,7,8,9-HxCDF	1.22e2	0.97	YES	0.871	10.025	35.592	35.61	1.000	1.001	0.050078		0.0317	0.0445
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.025	37.398		1.001				0.0709	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.025	39.309		1.000				0.0670	
17	OCDF			NO	0.806	10.025	41.940		1.000				0.105	
18	13C-2,3,7,8-TCDD	8.75e5	0.79	NO	1.16	10.025	26.553	26.51	1.026	1.025	178.89	89.7	0.208	
19	13C-1,2,3,7,8-PeCDD	6.04e5	0.64	NO	0.849	10.025	31.748	31.47	1.227	1.216	168.13	84.3	0.254	
20	13C-1,2,3,4,7,8-HxCDD	5.08e5	1.35	NO	0.779	10.025	34.853	34.85	1.014	1.014	168.47	84.4	0.412	
21	13C-1,2,3,6,7,8-HxCDD	6.11e5	1.23	NO	1.02	10.025	34.966	34.95	1.017	1.017	155.41	77.9	0.315	
22	13C-1,2,3,7,8,9-HxCDD	5.68e5	1.27	NO	0.903	10.025	35.238	35.23	1.025	1.025	162.75	81.6	0.355	
23	13C-1,2,3,4,6,7,8-HpCDD	4.03e5	1.05	NO	0.689	10.025	38.764	38.77	1.128	1.128	151.28	75.8	0.260	
24	13C-OCDD	6.20e5	0.90	NO	0.652	10.025	41.788	41.74	1.216	1.214	245.79	61.6	0.314	
25	13C-2,3,7,8-TCDF	1.21e6	0.78	NO	1.06	10.025	25.593	25.63	0.989	0.991	172.95	86.7	0.209	
26	13C-1,2,3,7,8-PeCDF	9.58e5	1.62	NO	0.838	10.025	30.128	30.18	1.165	1.167	172.52	86.5	0.296	
27	13C-2,3,4,7,8-PeCDF	9.31e5	1.60	NO	0.817	10.025	31.083	31.16	1.202	1.205	172.19	86.3	0.304	
28	13C-1,2,3,4,7,8-HxCDF	6.52e5	0.51	NO	1.01	10.025	33.983	33.96	0.989	0.988	167.28	83.8	0.512	
29	13C-1,2,3,6,7,8-HxCDF	7.19e5	0.51	NO	1.17	10.025	34.107	34.09	0.992	0.992	159.41	79.9	0.442	
30	13C-2,3,4,6,7,8-HxCDF	6.83e5	0.53	NO	1.02	10.025	34.681	34.68	1.009	1.009	172.93	86.7	0.505	
31	13C-1,2,3,7,8,9-HxCDF	5.60e5	0.53	NO	0.860	10.025	35.581	35.59	1.035	1.036	168.51	84.5	0.600	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-9.qld

Last Altered: Tuesday, June 02, 2020 11:12:44 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 11:14:13 AM Pacific Daylight Time

Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF	RF
32 13C-1,2,3,4,6,7,8-HpCDF	4.58e5	0.44	NO	0.774	10.025	37.331	37.36	1.086	1.087	152.93	76.7	0.374	
33 13C-1,2,3,4,7,8,9-HpCDF	3.25e5	0.44	NO	0.521	10.025	39.362	39.31	1.145	1.144	161.43	80.9	0.556	
34 13C-OCDF	7.63e5	0.88	NO	0.746	10.025	41.960	41.94	1.221	1.220	264.64	66.3	0.374	
35 37Cl-2,3,7,8-TCDD	3.45e5			1.04	10.025	26.584	26.54	1.028	1.026	78.560	98.4	0.0666	
36 13C-1,2,3,4-TCDD	8.44e5	0.81	NO	1.00	10.025	25.890	25.87	1.000	1.000	199.50	100	0.241	
37 13C-1,2,3,4-TCDF	1.32e6	0.81	NO	1.00	10.025	24.360	24.19	1.000	1.000	199.50	100	0.222	
38 13C-1,2,3,4,6,9-HxCDF	7.72e5	0.51	NO	1.00	10.025	34.420	34.37	1.000	1.000	199.50	100	0.516	
39 Total Tetra-Dioxins				0.888	10.025	24.620		0.000		0.18296		0.0629	0.183
40 Total Penta-Dioxins				0.908	10.025	29.960		0.000		0.00000		0.0675	0.128
41 Total Hexa-Dioxins				0.892	10.025	33.635		0.000		0.81456		0.132	0.815
42 Total Hepta-Dioxins				0.864	10.025	37.640		0.000		1.8016		0.134	1.80
43 Total Tetra-Furans				0.751	10.025	23.610		0.000				0.0145	
44 1st Func. Penta-Furans				0.893	10.025	27.580		0.000				0.00809	
45 Total Penta-Furans				0.893	10.025	29.275		0.000				0.0143	
46 Total Hexa-Furans				0.934	10.025	33.555		0.000		0.00000		0.0229	0.0445
47 Total Hepta-Furans				0.873	10.025	37.835		0.000				0.0408	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-9.qld

Last Altered: Tuesday, June 02, 2020 11:12:44 AM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 11:14:13 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: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

Tetra-Dioxins

Total Tetra-Dioxins	24.37	4.705e3	5.031e3	3.322e2	3.809e2	0.87	NO	7.131e2	0.18296	0.18296	0.0629
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Penta-Dioxins

Total Penta-Dioxins	29.74	4.132e3	4.240e3	1.899e2	2.159e2	0.88	YES	0.000e0	0.00000	0.12798	0.0675
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Hexa-Dioxins

Total Hexa-Dioxins	33.35	1.680e4	1.318e4	7.157e2	6.253e2	1.14	NO	1.341e3	0.53327	0.53327	0.132
Total Hexa-Dioxins	34.15	7.705e3	4.508e3	4.127e2	2.947e2	1.40	NO	7.073e2	0.28129	0.28129	0.132

Hepta-Dioxins

Total Hepta-Dioxins	37.76	1.423e4	1.542e4	9.952e2	9.717e2	1.02	NO	1.967e3	1.1265	1.1265	0.134
1,2,3,4,6,7,8-HpCDD	38.78	1.091e4	8.574e3	6.217e2	5.570e2	1.12	NO	1.179e3	0.67505	0.67505	0.134

Tetra-Furans

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Penta-Furans function 1

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Dataset: U:\VG12.PRO\Results\200601R3\200601R3-9.qld

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Penta-Furans



Hexa-Furans

1,2,3,7,8,9-HxCDF	35.61	2.428e3	1.986e3	6.027e1	6.216e1	0.97	YES	1.224e2	0.00000	0.044535	0.0317
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Hepta-Furans



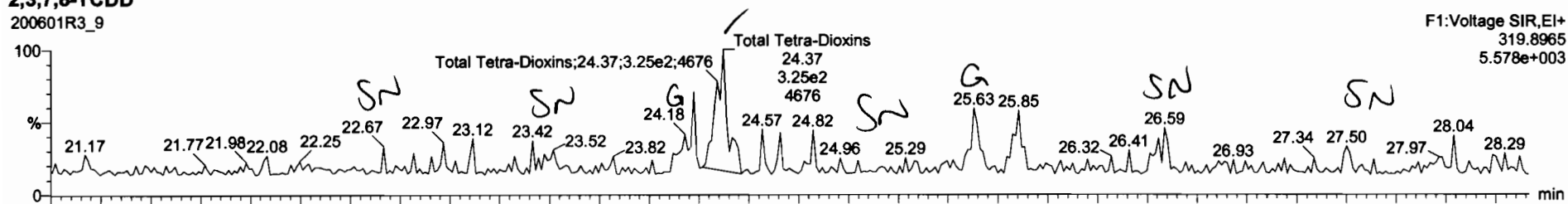
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

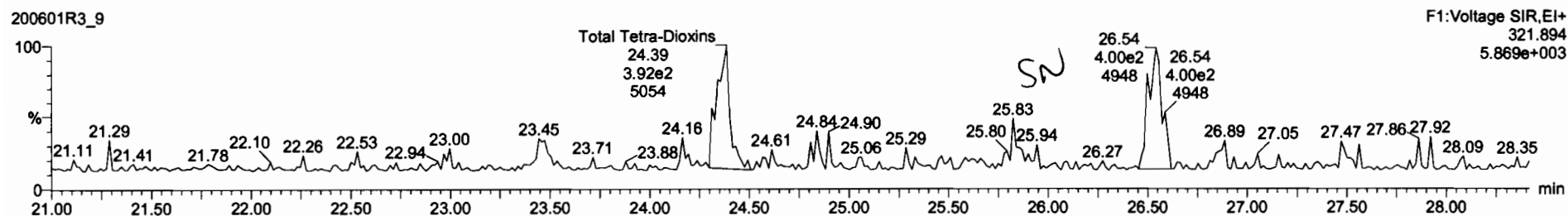
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2,3,7,8-TCDD

200601R3_9

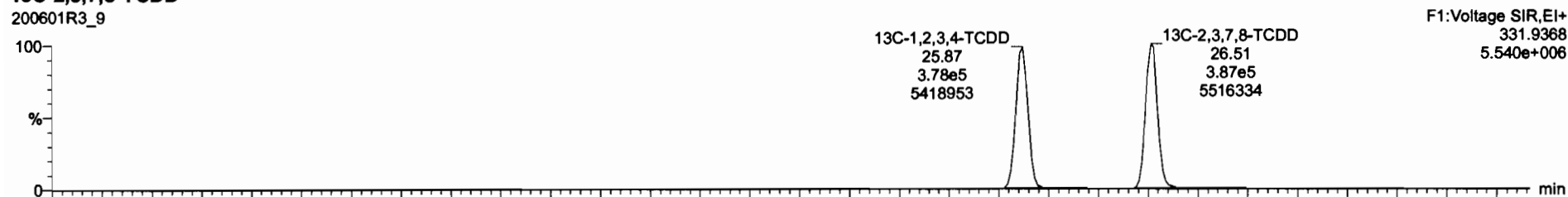


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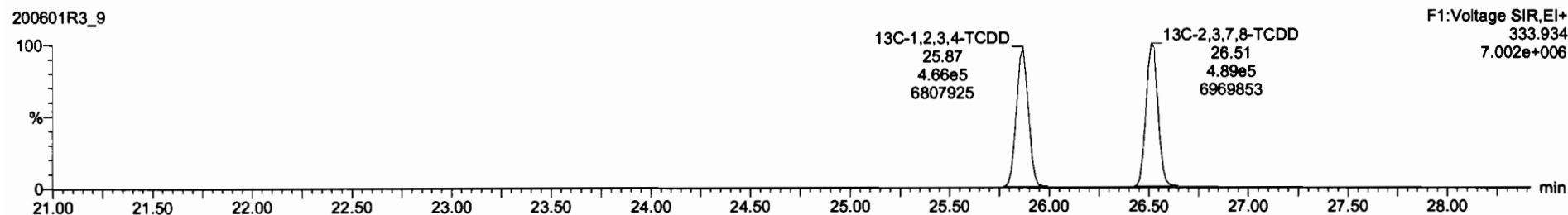


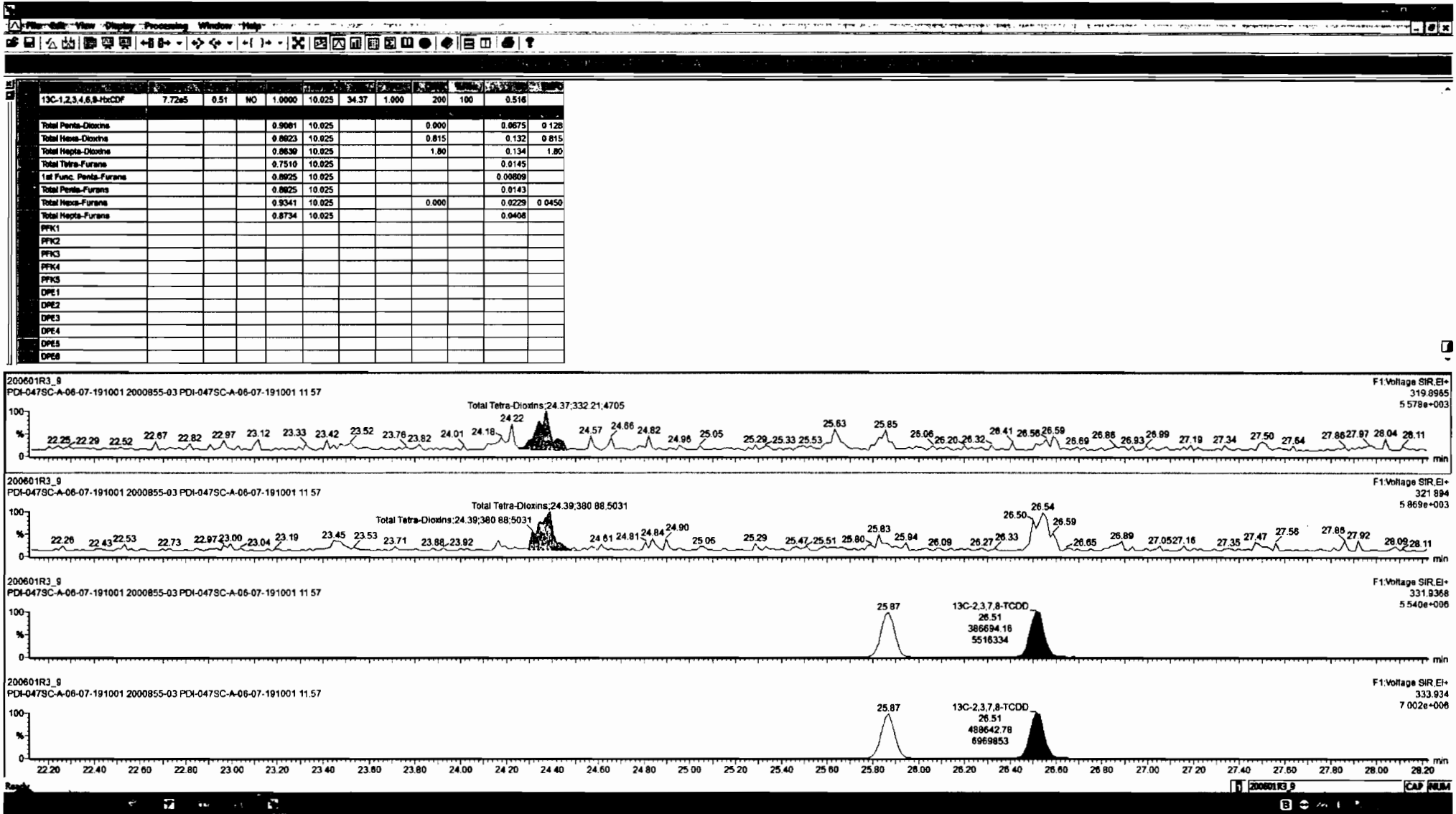
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200601R3_9

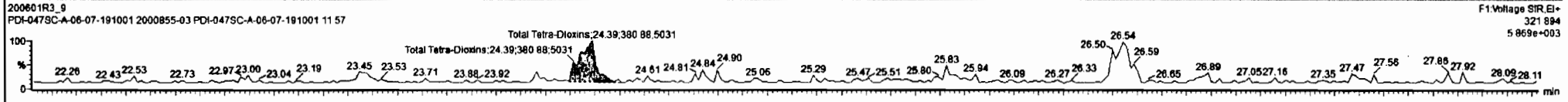
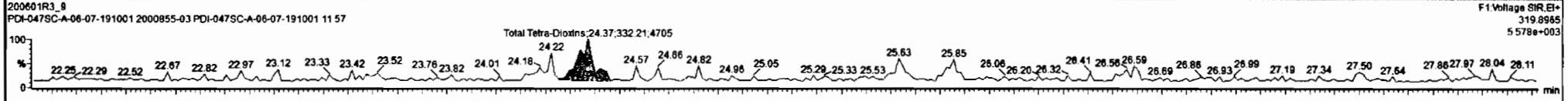


200601R3_9





13C-1,2,3,4,6,8-HxCDF	7.72e5	0.51	NO	1.0000	10.025	34.37	1.000	200	100	0.516	
Total Penta-Dioxins				0.9081	10.025			0.000		0.0675	0.128
Total Hexa-Dioxins				0.8623	10.025			0.815		0.132	0.815
Total Hepta-Dioxins				0.8630	10.025			1.80		0.134	1.80
Total Tetra-Furans				0.7510	10.025					0.0145	
1st Func. Penta-Furans				0.8825	10.025					0.00809	
Total Penta-Furans				0.8825	10.025					0.0143	
Total Hexa-Furans				0.9341	10.025			0.000		0.0229	0.0450
Total Hepta-Furans				0.8734	10.025					0.0408	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
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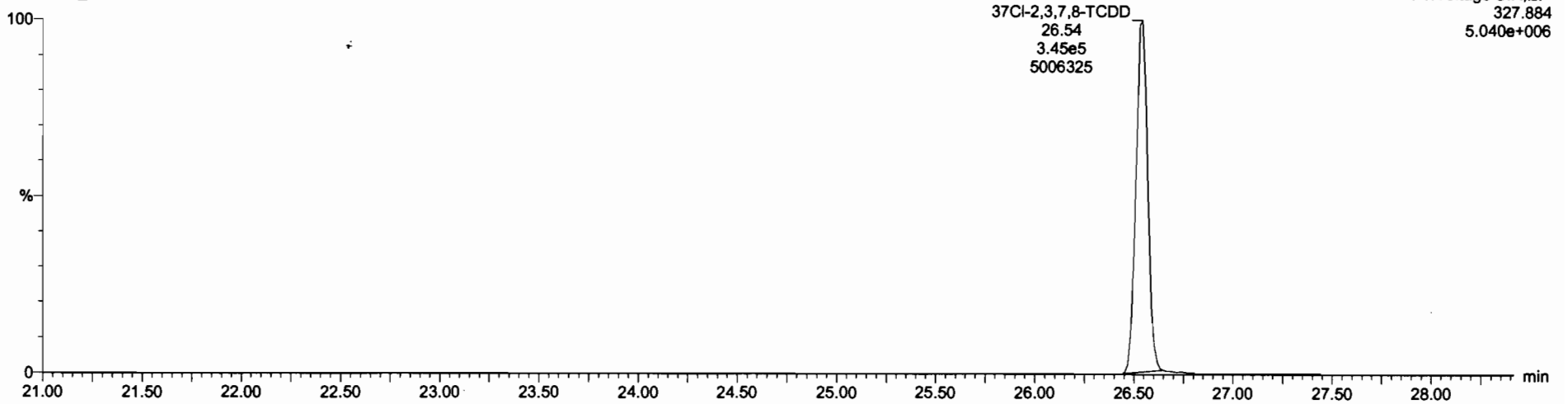
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Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

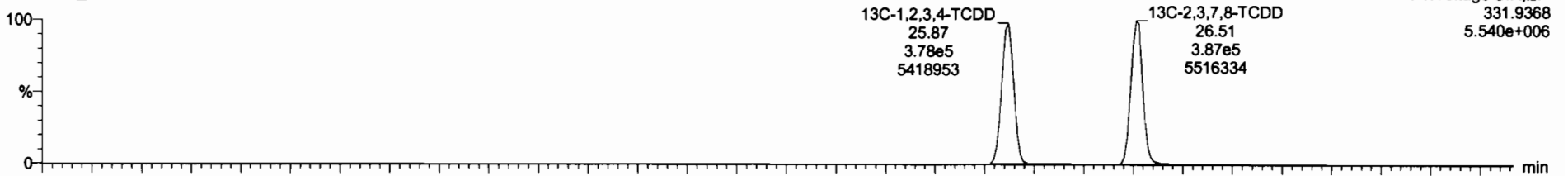
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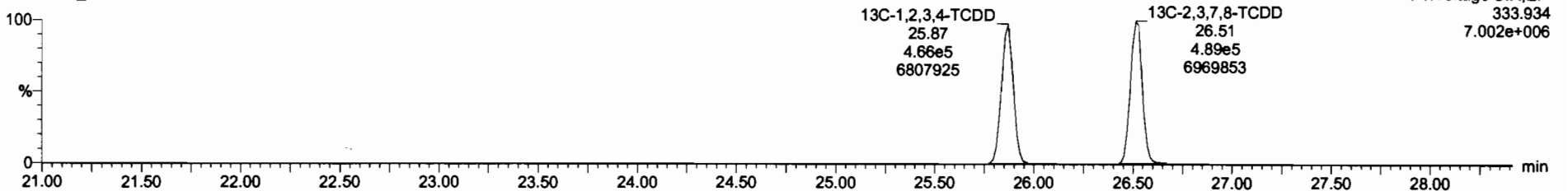


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200601R3_9



200601R3_9



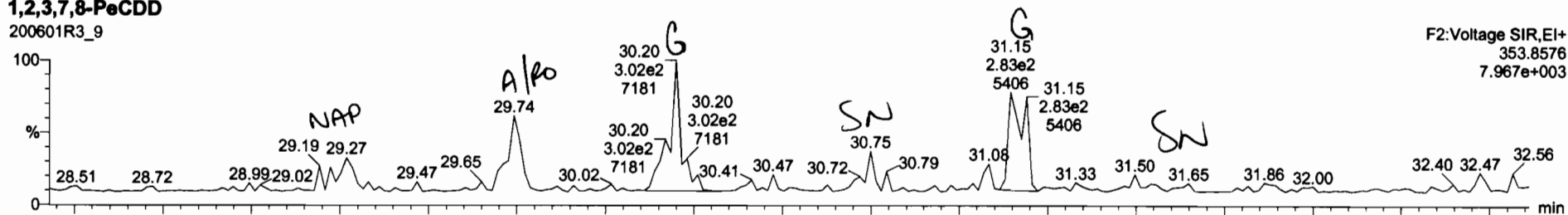
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

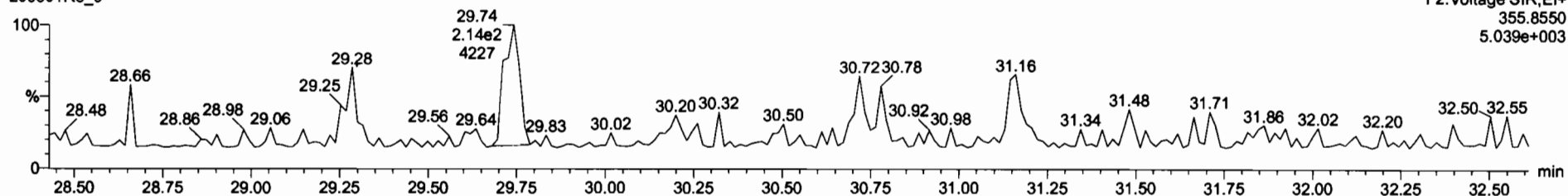
1,2,3,7,8-PeCDD

200601R3_9



F2: Voltage SIR, EI+
353.8576
7.967e+003

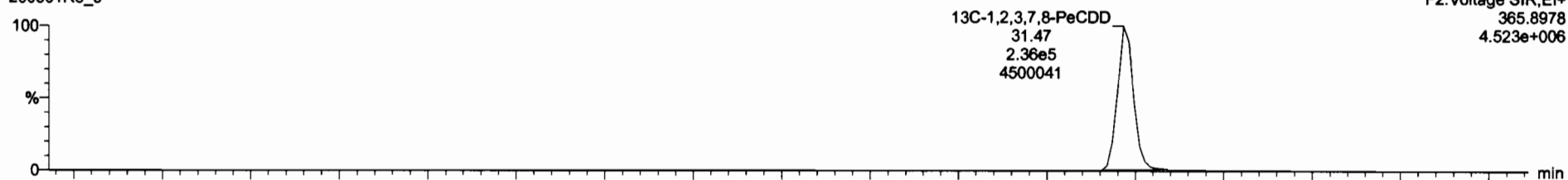
200601R3_9



F2: Voltage SIR, EI+
355.8550
5.039e+003

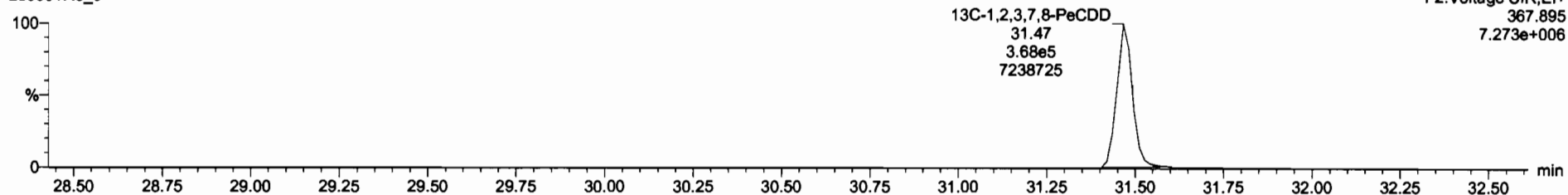
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200601R3_9

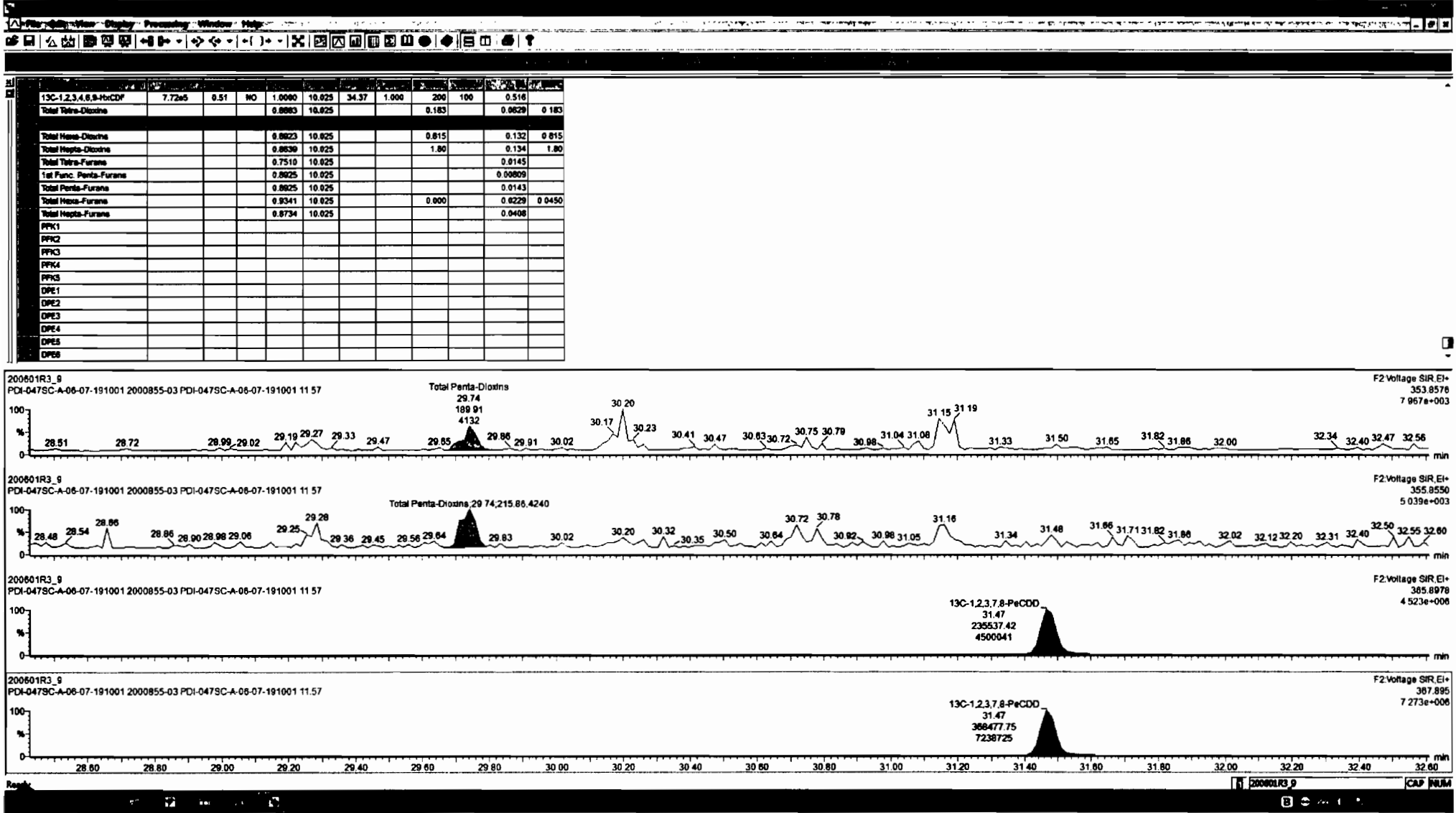


F2: Voltage SIR, EI+
365.8978
4.523e+006

200601R3_9



F2: Voltage SIR, EI+
367.895
7.273e+006



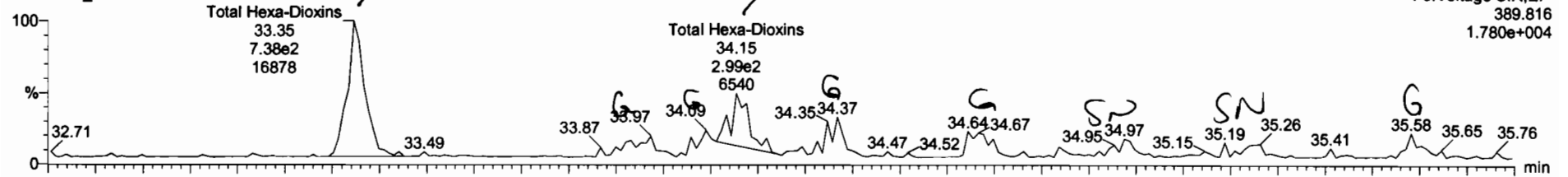
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

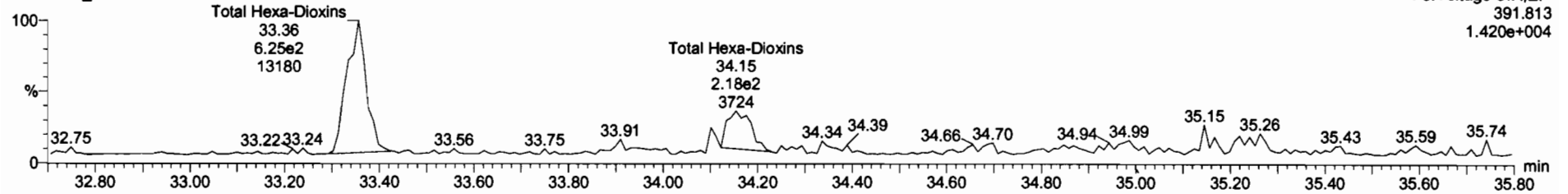
Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

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

200601R3_9

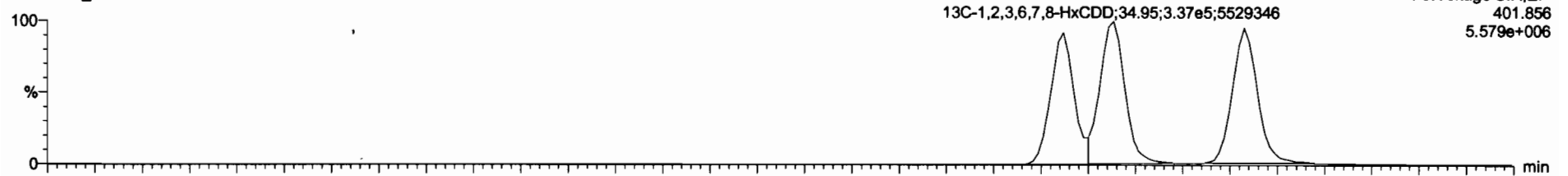


200601R3_9

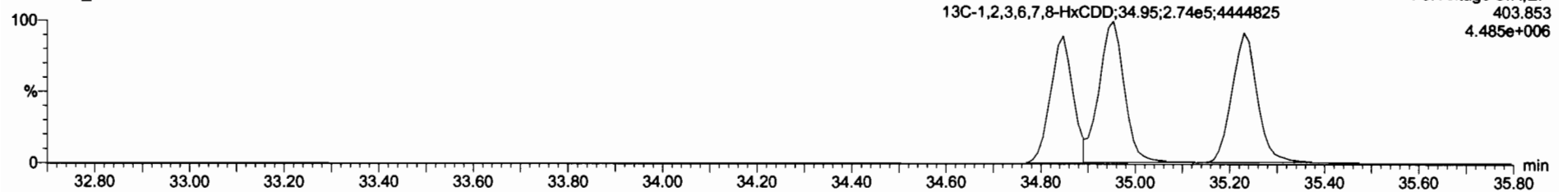


13C-1,2,3,4,7,8-HxCDD

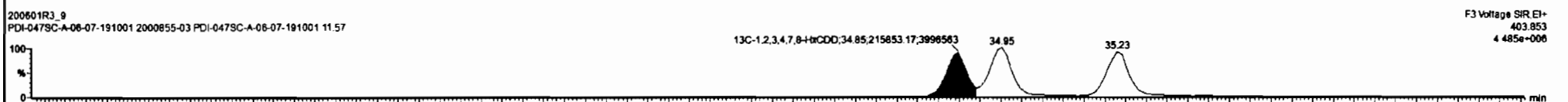
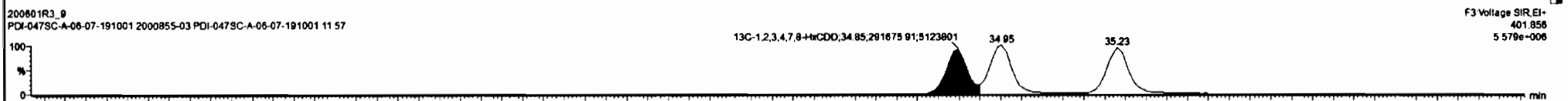
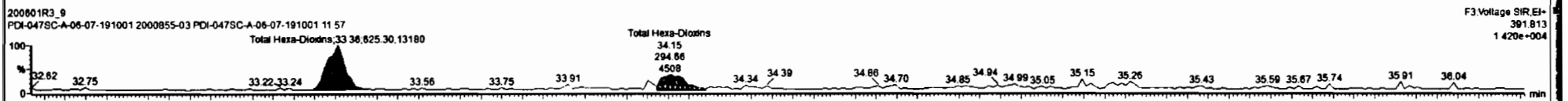
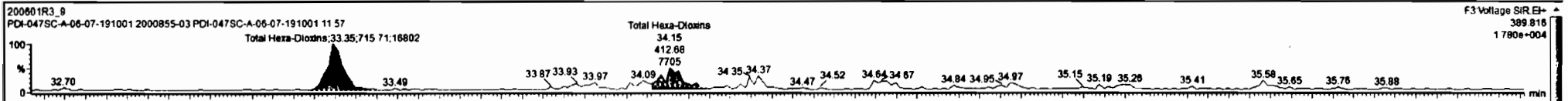
200601R3_9



200601R3_9



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Total Tetra-Dioxins				0.8963	10.025			0.183		0.0629 0.183
Total Penta-Dioxins				0.9061	10.025			0.000		0.0675 0.126
Total Hexa-Dioxins				0.8636	10.025			1.80		0.134 1.80
Total Tetra-Furans				0.7510	10.025					0.0145
1st Func. Penta-Furans				0.8625	10.025					0.00809
Total Penta-Furans				0.8625	10.025					0.0143
Total Hexa-Furans				0.8341	10.025			0.000		0.0229 0.0450
Total Hepta-Furans				0.8734	10.025					0.0408
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



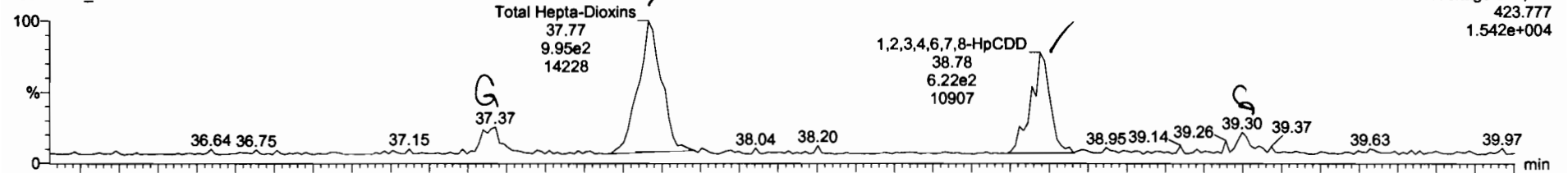
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

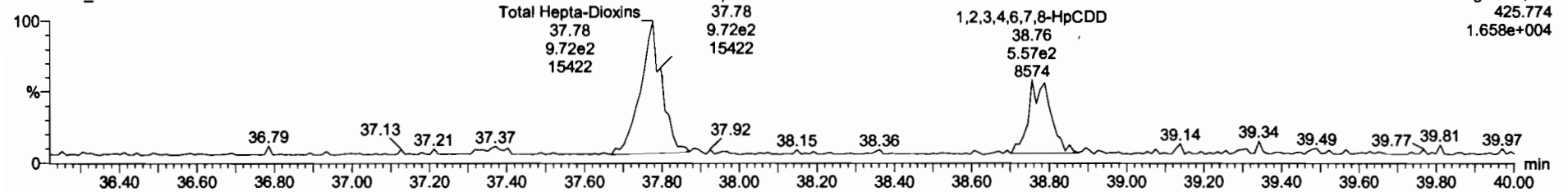
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1,2,3,4,6,7,8-HpCDD

200601R3_9

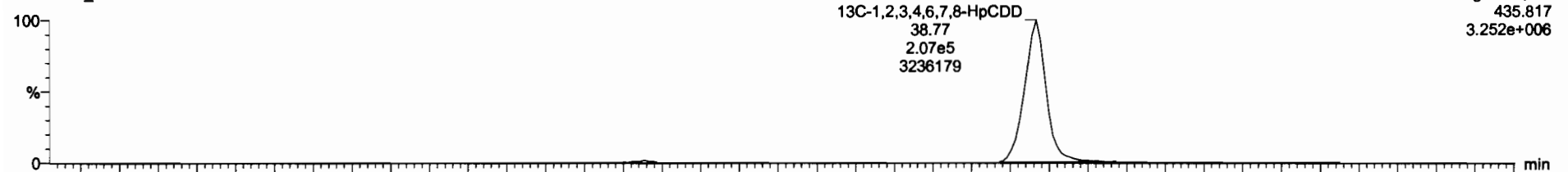


200601R3_9

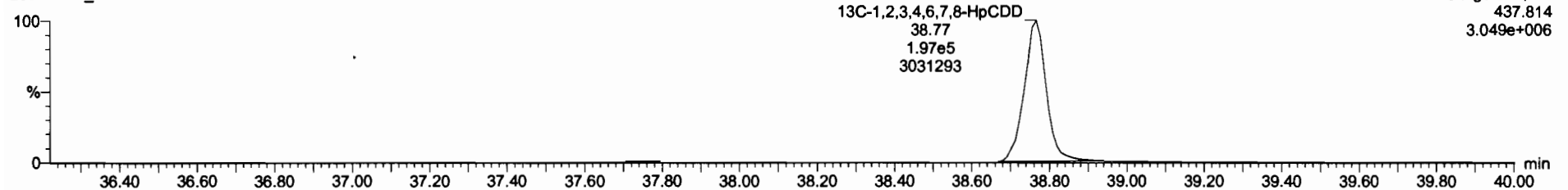


13C-1,2,3,4,6,7,8-HpCDD

200601R3_9



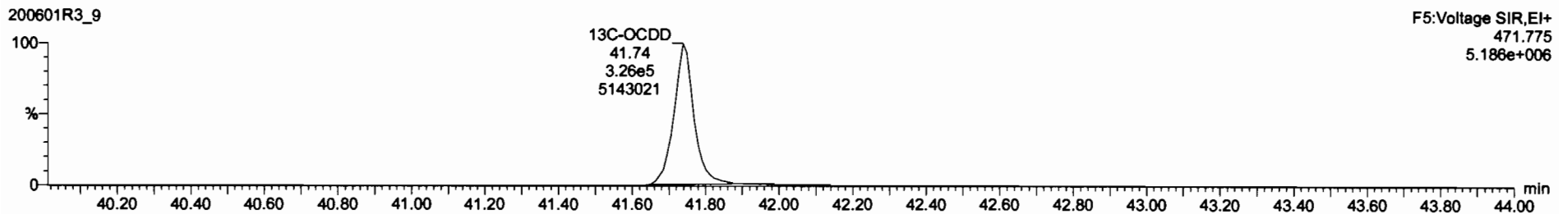
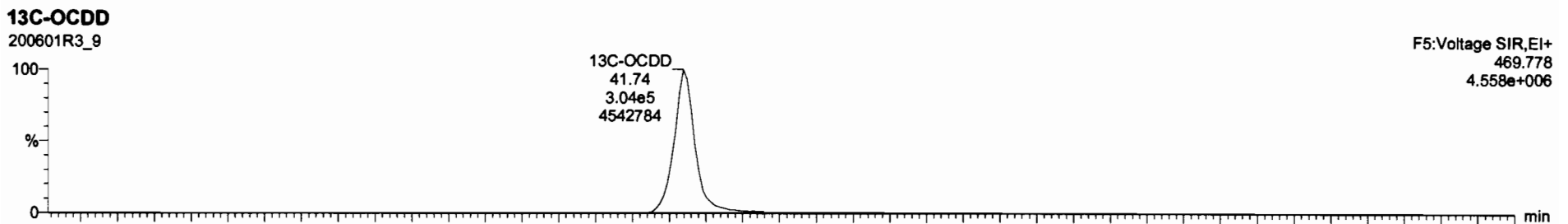
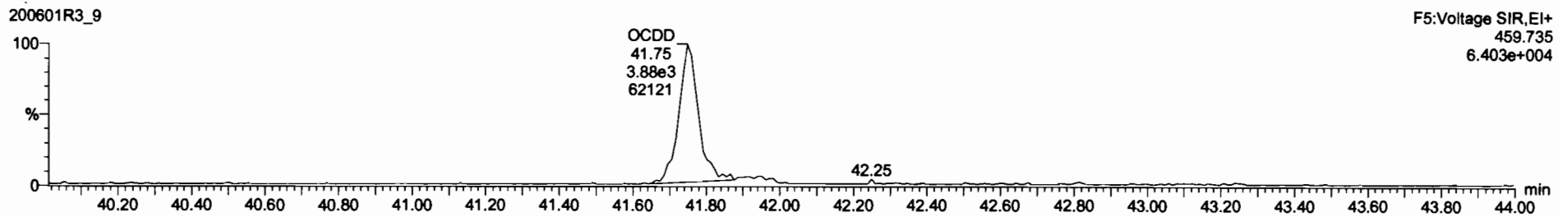
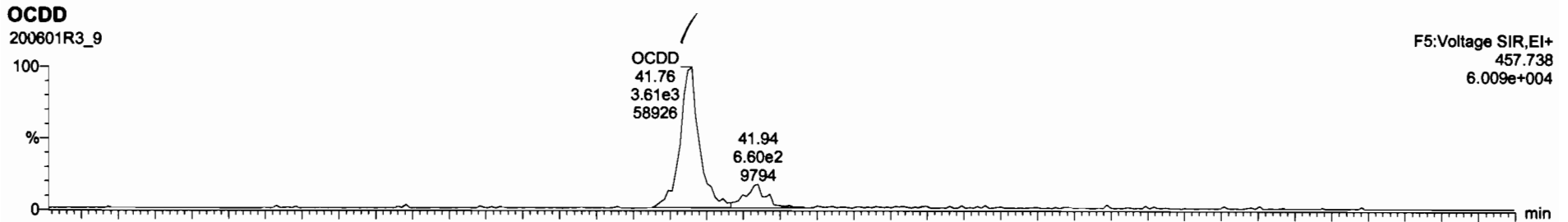
200601R3_9



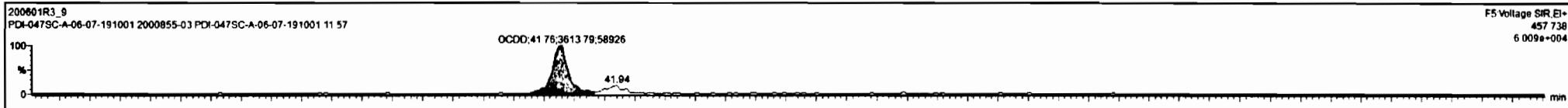
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001



2,3,7,8-TCDF			NO	0.7510	10.025					0.0300
1,2,3,7,8-PeCDF			NO	0.8925	10.025					0.0396
2,3,4,7,8-PeCDF			NO	0.9348	10.025					0.0356
1,2,3,4,7,8-HxCDF			NO	0.8645	10.025					0.0590
1,2,3,6,7,8-HxCDF			NO	0.8982	10.025					0.0532
2,3,4,6,7,8-HxCDF			NO	0.9341	10.025					0.0587
1,2,3,7,8,9-HxCDF	1.22e2	0.97	YES	0.8787	10.025	35.61	1.001	0.0501		0.0317 0.0450
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.025					0.0709
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.025					0.0870
OCDF			NO	0.8085	10.025					0.105
13C-2,3,7,8-TCDD	8.75e5	0.79	NO	1.1583	10.025	28.51	1.025	179	89.7	0.208
13C-1,2,3,7,8-PeCDD	6.04e5	0.84	NO	0.8480	10.025	31.47	1.216	168	84.3	0.254
13C-1,2,3,4,7,8-HxCDD	5.08e5	1.35	NO	0.7780	10.025	34.85	1.014	168	84.4	0.412
13C-1,2,3,6,7,8-HxCDD	6.11e5	1.23	NO	0.8167	10.025	34.95	1.017	155	77.9	0.315
13C-1,2,3,7,8,9-HxCDD	5.68e5	1.27	NO	0.9927	10.025	35.23	1.025	183	81.6	0.355
13C-1,2,3,4,6,7,8-HpCDD	4.03e5	1.95	NO	0.8882	10.025	38.77	1.128	151	75.8	0.280
13C-OCDD	6.20e5	0.90	NO	0.8521	10.025	41.74	1.214	246	61.6	0.314
13C-2,3,7,8-TCDF	1.21e6	0.78	NO	1.0690	10.025	25.63	0.991	173	88.7	0.299
13C-1,2,3,7,8-PeCDF	9.58e5	1.82	NO	0.8380	10.025	30.18	1.167	173	86.5	0.296
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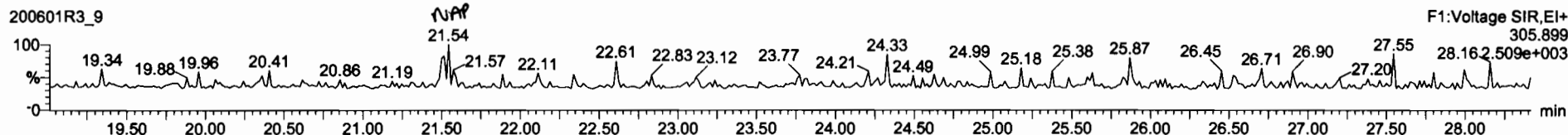
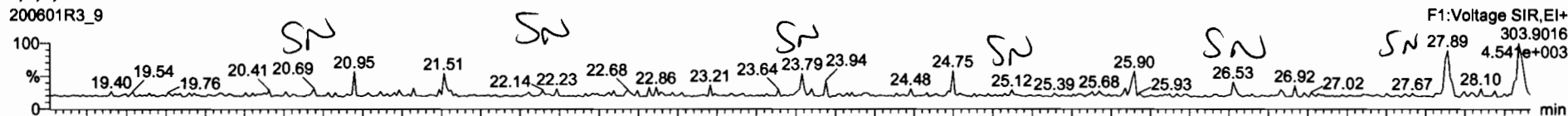


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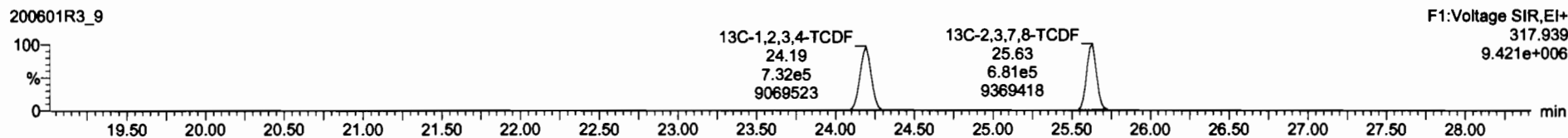
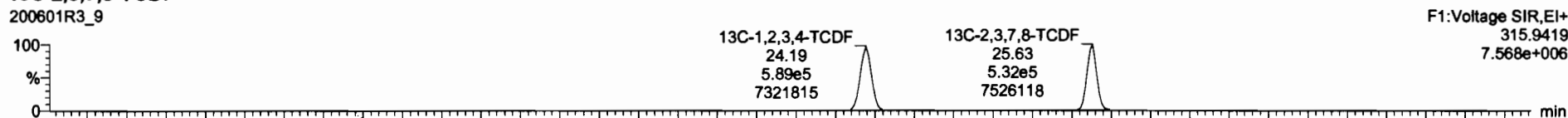
Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

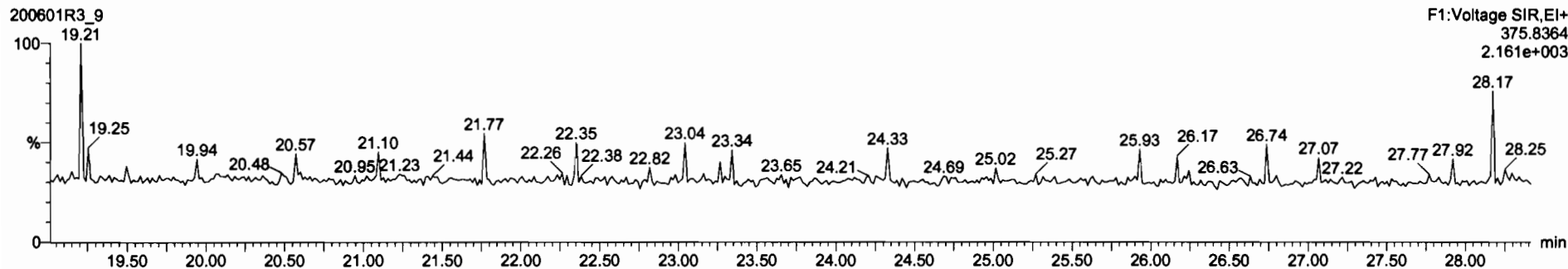
2,3,7,8-TCDF



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



DPE1

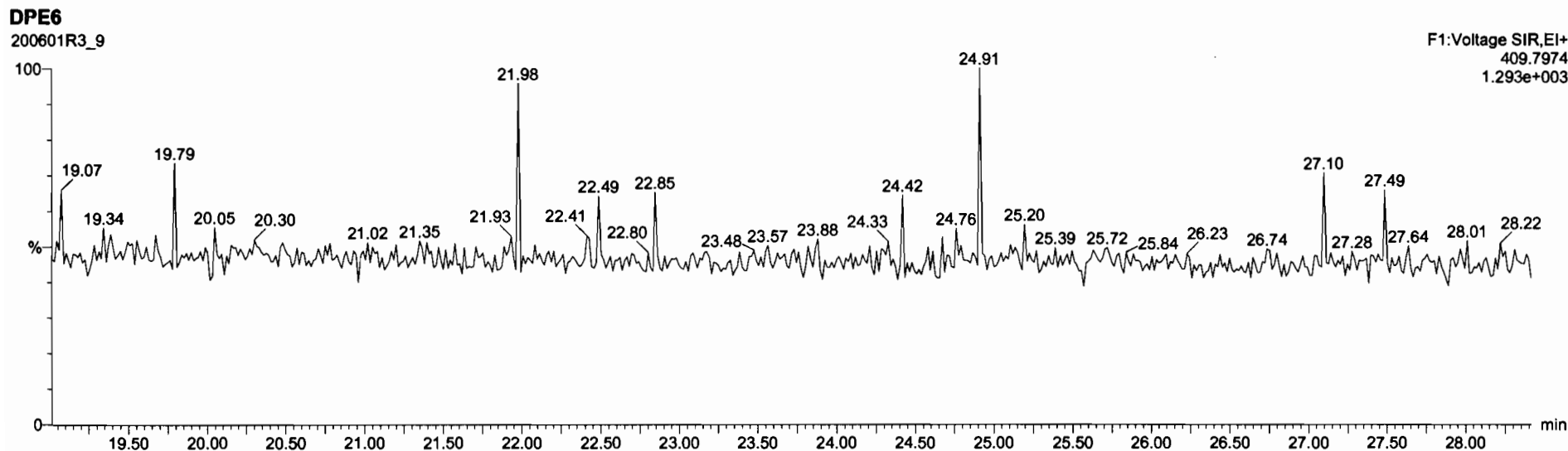
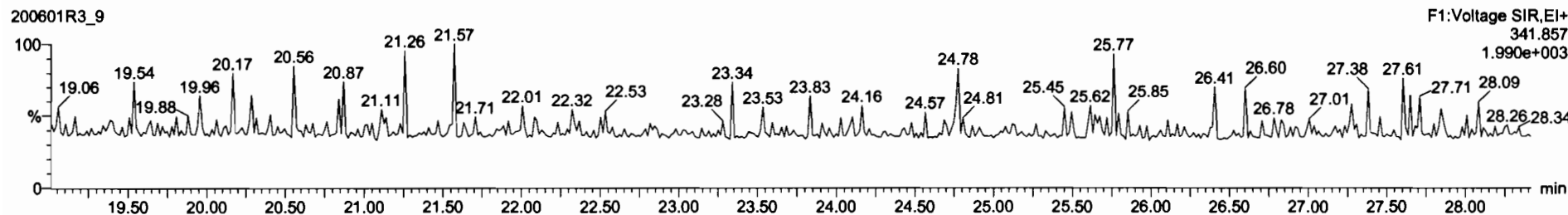
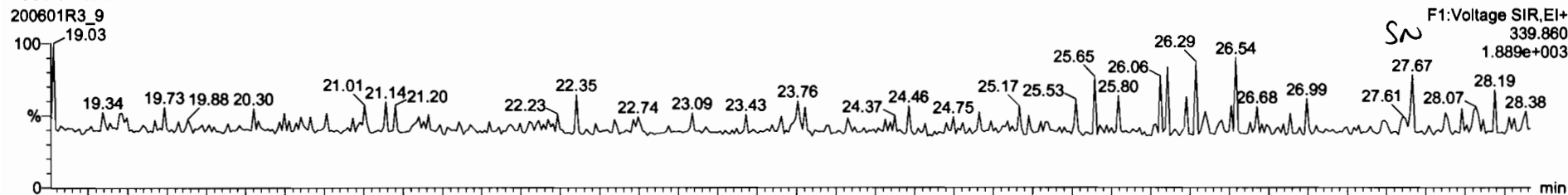


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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

1st Func. Penta-Furans

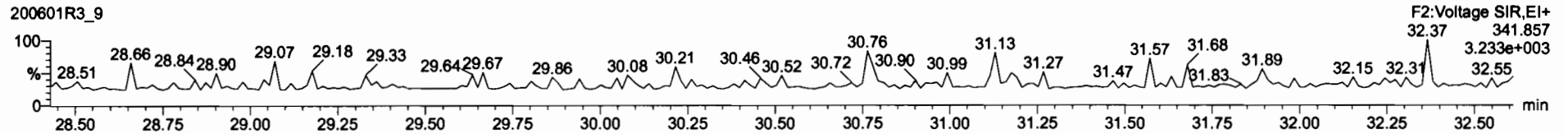
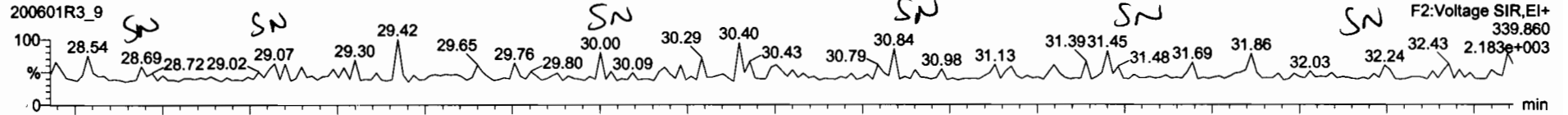


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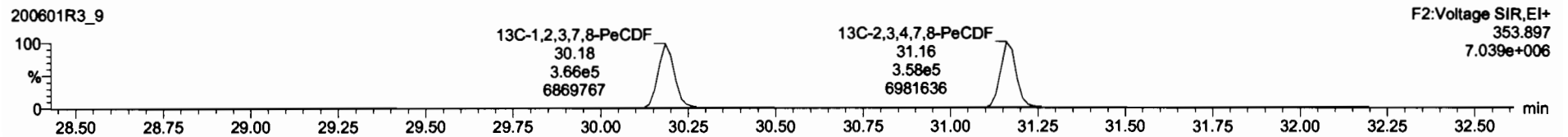
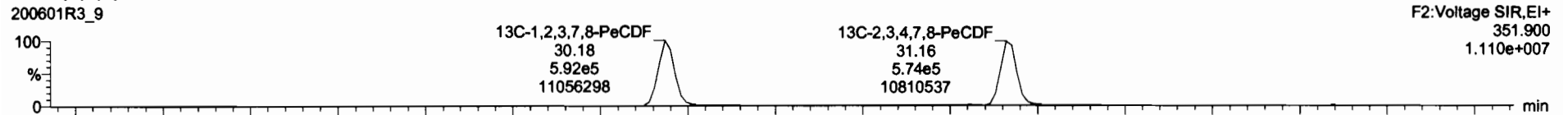
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Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

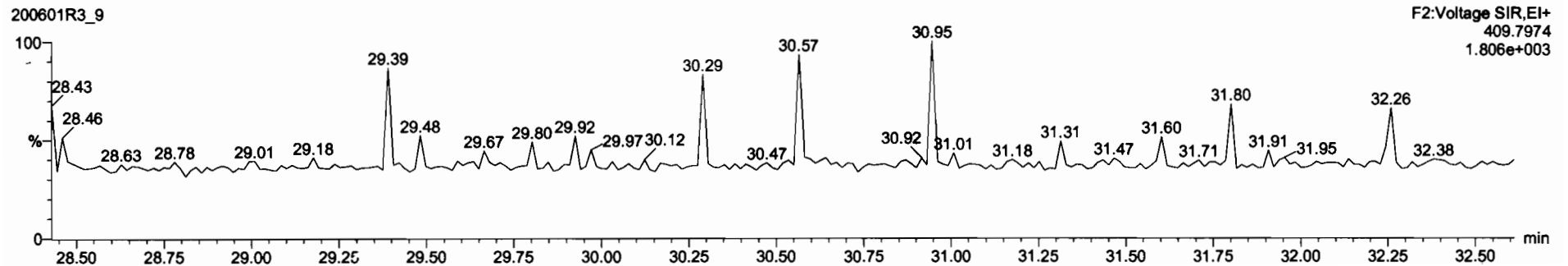
1,2,3,7,8-PeCDF



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



DPE2

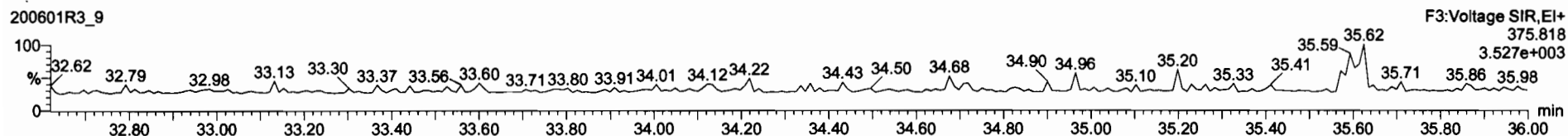
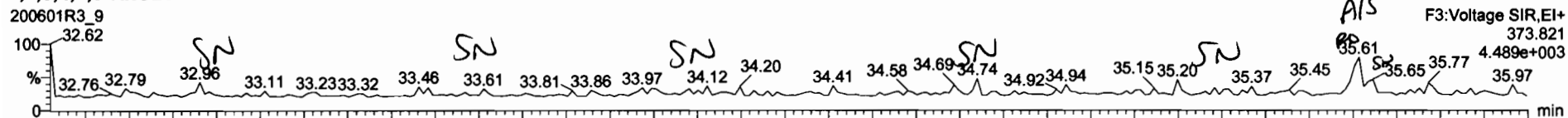


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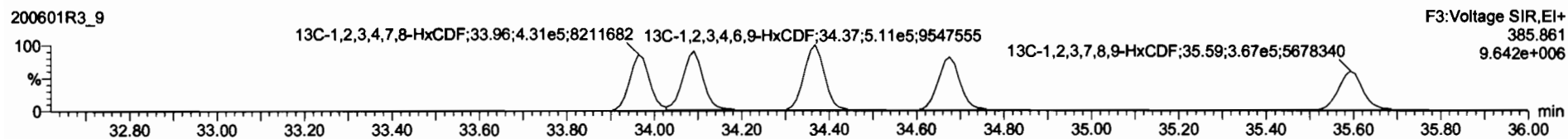
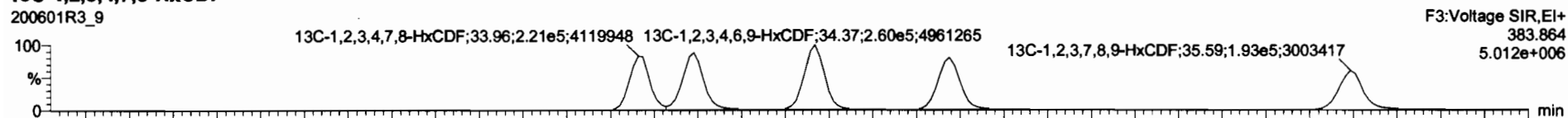
Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
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Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

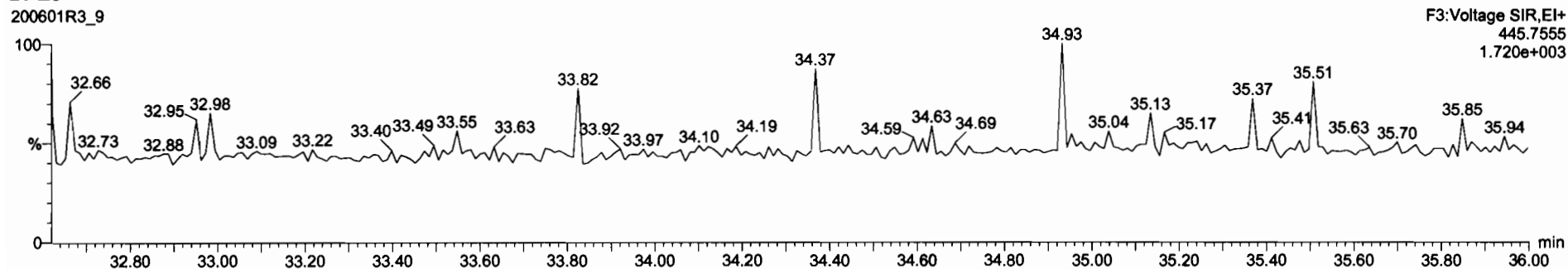
1,2,3,4,7,8-HxCDF



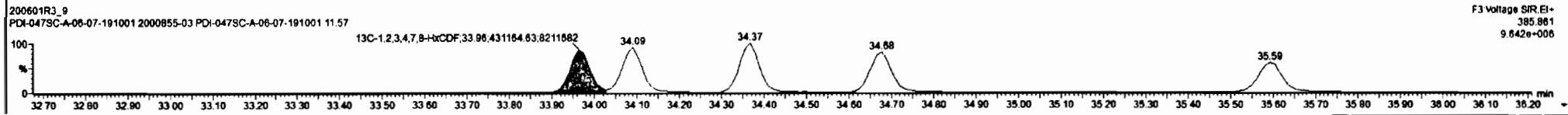
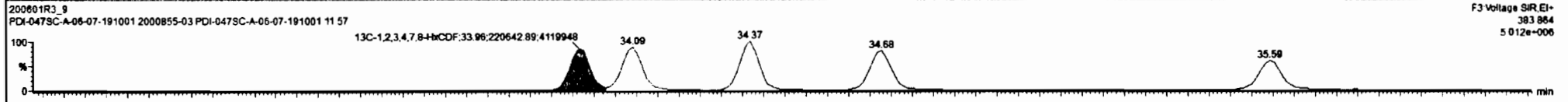
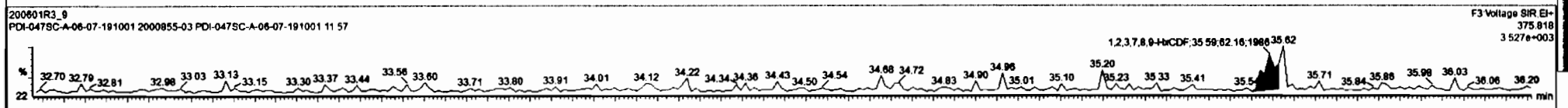
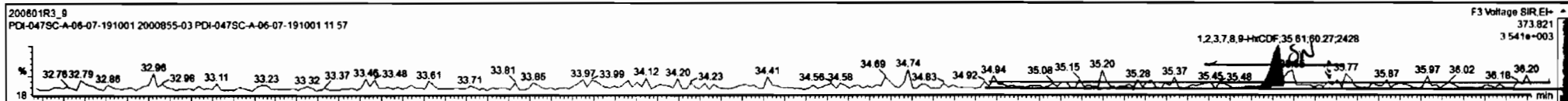
13C-1,2,3,4,7,8-HxCDF



DPE3



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Total Tetra-Dioxine				0.8883	10.025			0.183		0.0628 0.183
Total Penta-Dioxine				0.9081	10.025			0.000		0.0675 0.128
Total Hexa-Dioxine				0.8823	10.025			0.815		0.132 0.815
Total Hepta-Dioxine				0.8630	10.025			1.80		0.134 1.80
Total Tetra-Furane				0.7510	10.025					0.0145
Tot Func. Penta-Furane				0.8825	10.025					0.0809
Total Penta-Furane				0.8825	10.025					0.0143
Total Hepta-Furane				0.8734	10.025					0.0408
PRK1										
PRK2										
PRK3										
PRK4										
PRK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



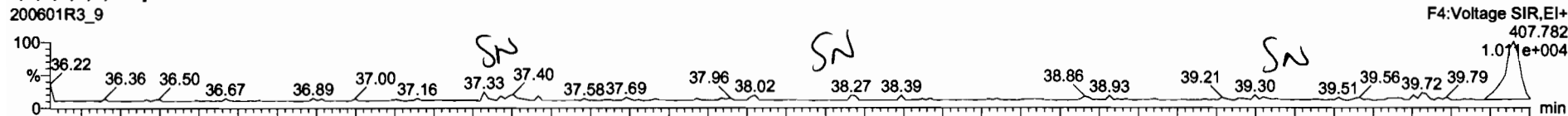
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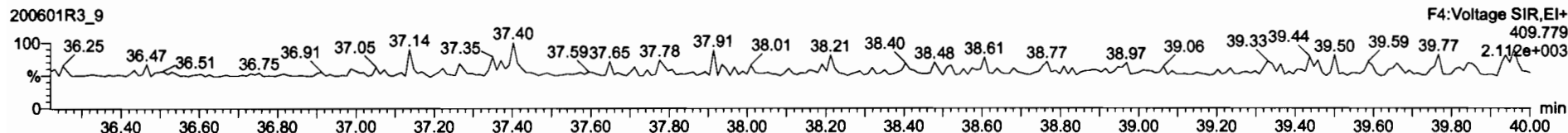
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1,2,3,4,6,7,8-HpCDF

200601R3_9



200601R3_9

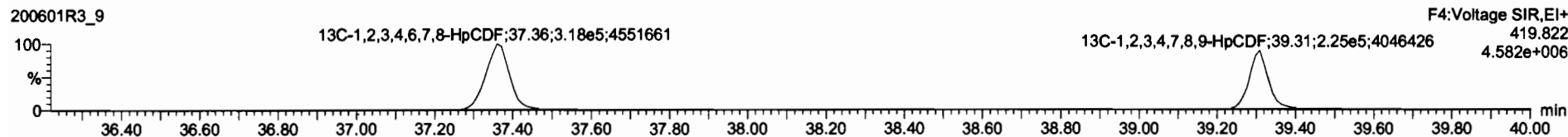


13C-1,2,3,4,6,7,8-HpCDF

200601R3_9

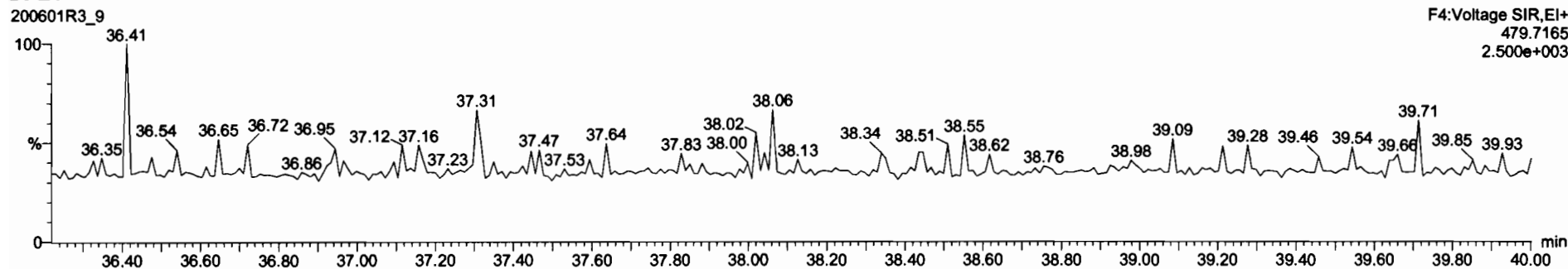


200601R3_9



DPE4

200601R3_9

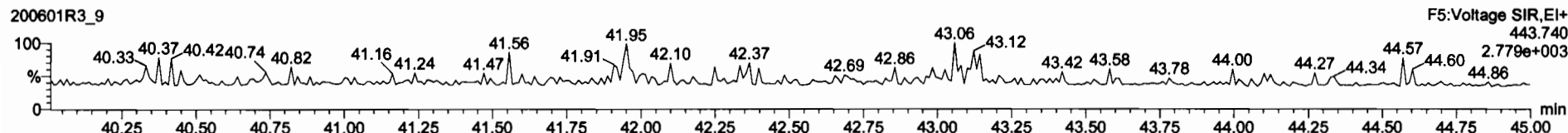
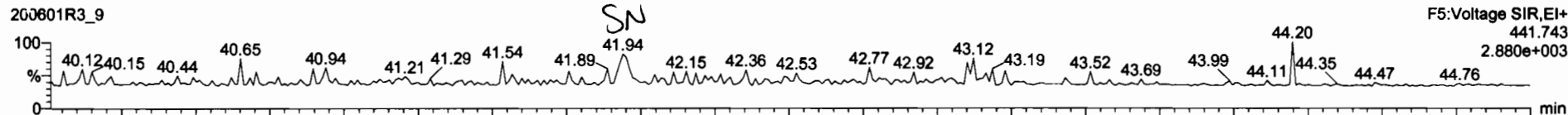


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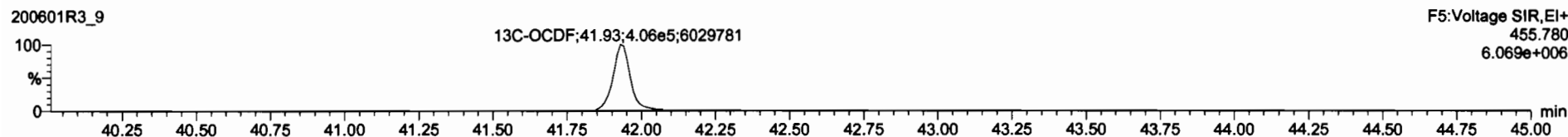
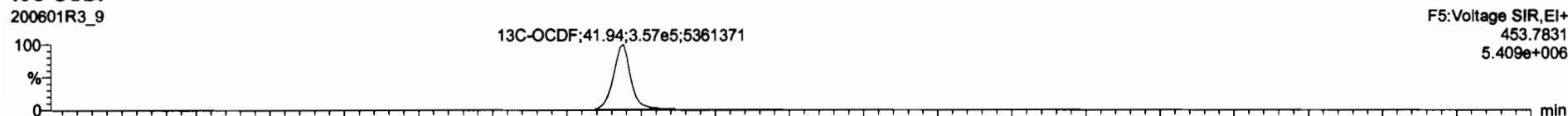
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Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001

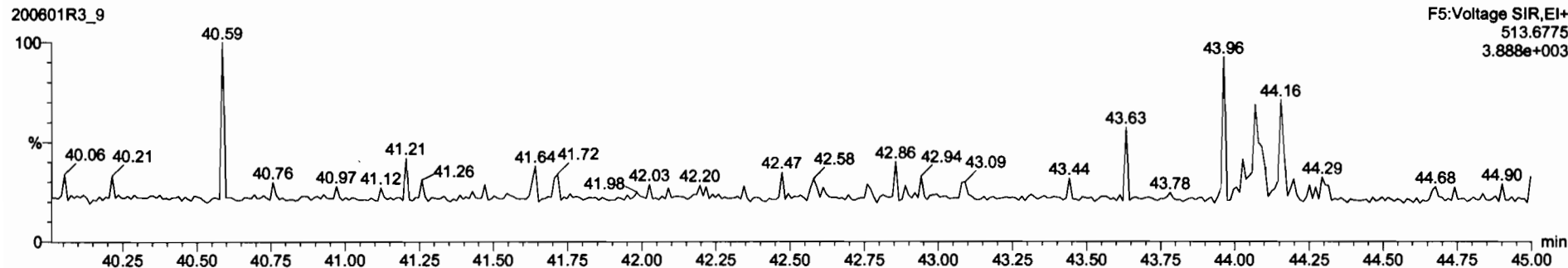
OCDF



13C-OCDF



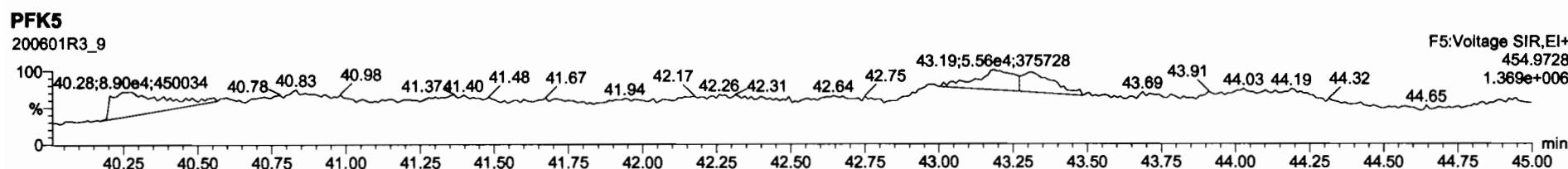
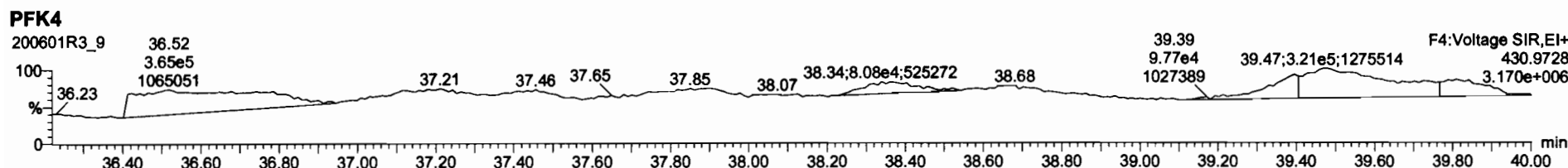
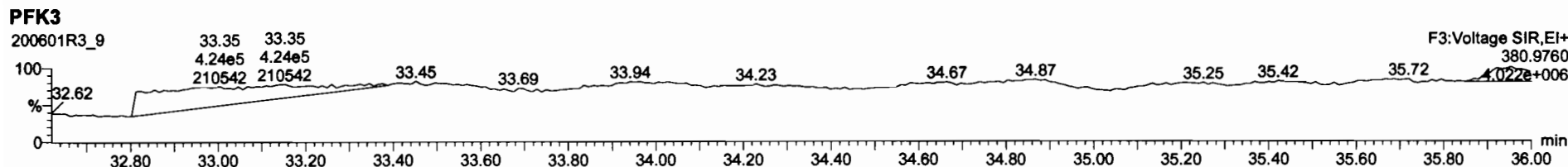
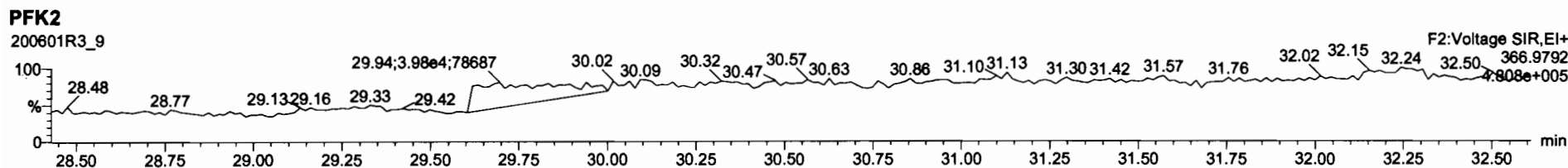
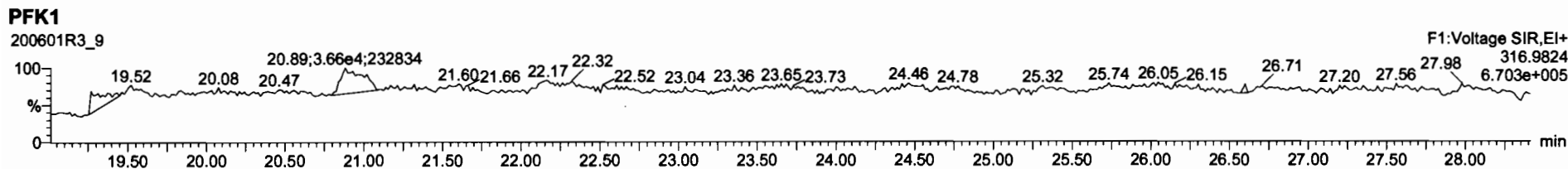
DPE5



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Name: 200601R3_9, Date: 01-Jun-2020, Time: 21:15:08, ID: 2000855-03 PDI-047SC-A-06-07-191001 11.57, Description: PDI-047SC-A-06-07-191001



Dataset: U:\VG12.PRO\Results\200601R3\200601R3-10.qld

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GRN 06/02/2020

ET 06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
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Name: 200601R3_10, Date: 01-Jun-2020, Time: 22:01:20, ID: 2000855-04 PDI-047SC-A-07-08-191001 13.16, Description: PDI-047SC-A-07-08-191001

Peak	Retention	Area	Height	Ratio	Conc	Response	Response	Response	Response	Response	Response	Response	
1	2,3,7,8-TCDD			NO	0.884	10.017	26.545		1.001			0.0715	
2	1,2,3,7,8-PeCDD			NO	0.908	10.017	31.488		1.001			0.0973	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.017	34.846		1.000			0.119	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.017	34.943		1.000			0.118	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.017	35.241		1.000			0.125	
6	1,2,3,4,6,7,8-HpCDD	1.51e3	1.05	NO	0.864	10.017	38.778	38.78	1.000	1.000	0.84911	0.103	0.849
7	OCDD	1.13e4	0.86	NO	0.914	10.017	41.759	41.77	1.000	1.000	7.3674	0.121	7.37
8	2,3,7,8-TCDF			NO	0.751	10.017	25.641		1.001			0.0396	
9	1,2,3,7,8-PeCDF			NO	0.893	10.017	30.205		1.001			0.0544	
10	2,3,4,7,8-PeCDF			NO	0.935	10.017	31.192		1.001			0.0492	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.017	33.963		1.000			0.0446	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.017	34.090		1.000			0.0399	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.017	34.701		1.001			0.0386	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.017	35.582		1.000			0.0611	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.017	37.397		1.001			0.0999	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.017	39.309		1.000			0.112	
17	OCDF			NO	0.806	10.017	41.951		1.000			0.0968	
18	13C-2,3,7,8-TCDD	6.75e5	0.79	NO	1.16	10.017	26.538	26.51	1.026	1.025	139.33	69.8	0.184
19	13C-1,2,3,7,8-PeCDD	5.52e5	0.65	NO	0.849	10.017	31.729	31.47	1.227	1.217	155.17	77.7	0.193
20	13C-1,2,3,4,7,8-HxCDD	4.64e5	1.29	NO	0.779	10.017	34.841	34.84	1.014	1.014	157.76	79.0	0.373
21	13C-1,2,3,6,7,8-HxCDD	5.74e5	1.28	NO	1.02	10.017	34.955	34.94	1.017	1.017	149.52	74.9	0.286
22	13C-1,2,3,7,8,9-HxCDD	5.70e5	1.28	NO	0.903	10.017	35.226	35.23	1.025	1.025	167.17	83.7	0.322
23	13C-1,2,3,4,6,7,8-HpCDD	4.10e5	1.06	NO	0.689	10.017	38.751	38.77	1.128	1.128	157.61	78.9	0.387
24	13C-OCDD	6.72e5	0.91	NO	0.652	10.017	41.775	41.76	1.216	1.215	272.84	68.3	0.391
25	13C-2,3,7,8-TCDF	9.18e5	0.79	NO	1.06	10.017	25.578	25.61	0.989	0.991	130.35	65.3	0.233
26	13C-1,2,3,7,8-PeCDF	8.22e5	1.64	NO	0.838	10.017	30.111	30.18	1.165	1.167	147.52	73.9	0.284
27	13C-2,3,4,7,8-PeCDF	8.00e5	1.63	NO	0.817	10.017	31.065	31.16	1.202	1.205	147.21	73.7	0.291
28	13C-1,2,3,4,7,8-HxCDF	5.95e5	0.50	NO	1.01	10.017	33.972	33.96	0.989	0.989	156.49	78.4	0.400
29	13C-1,2,3,6,7,8-HxCDF	6.76e5	0.52	NO	1.17	10.017	34.096	34.08	0.992	0.992	153.47	76.9	0.345
30	13C-2,3,4,6,7,8-HxCDF	6.64e5	0.51	NO	1.02	10.017	34.670	34.67	1.009	1.009	171.97	86.1	0.394
31	13C-1,2,3,7,8,9-HxCDF	5.40e5	0.52	NO	0.860	10.017	35.570	35.58	1.035	1.036	166.46	83.4	0.469

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-10.qld

Last Altered: Tuesday, June 02, 2020 11:21:02 AM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 11:21:32 AM Pacific Daylight Time

Name: 200601R3_10, Date: 01-Jun-2020, Time: 22:01:20, ID: 2000855-04 PDI-047SC-A-07-08-191001 13.16, Description: PDI-047SC-A-07-08-191001

	Conc	RA	ny	RRF	w/w	Prod	RRF	RRF	RRF	RRF	RRF	RRF	RRF	
32	13C-1,2,3,4,6,7,8-HpCDF	4.76e5	0.43	NO	0.774	10.017	37.319	37.36	1.086	1.087	162.65	81.5	0.394	
33	13C-1,2,3,4,7,8,9-HpCDF	3.20e5	0.44	NO	0.521	10.017	39.349	39.31	1.145	1.144	162.48	81.4	0.586	
34	13C-OCDF	8.44e5	0.89	NO	0.746	10.017	41.946	41.95	1.221	1.221	299.66	75.0	0.322	
35	37Cl-2,3,7,8-TCDD	2.71e5			1.04	10.017	26.569	26.53	1.028	1.026	62.372	78.1	0.0512	
36	13C-1,2,3,4-TCDD	8.36e5	0.80	NO	1.00	10.017	25.890	25.85	1.000	1.000	199.67	100	0.213	
37	13C-1,2,3,4-TCDF	1.33e6	0.79	NO	1.00	10.017	24.360	24.18	1.000	1.000	199.67	100	0.246	
38	13C-1,2,3,4,6,9-HxCDF	7.54e5	0.51	NO	1.00	10.017	34.420	34.36	1.000	1.000	199.67	100	0.403	
39	Total Tetra-Dioxins				0.888	10.017	24.620		0.000		0.093778		0.0454	0.0938
40	Total Penta-Dioxins				0.908	10.017	29.960		0.000				0.0456	
41	Total Hexa-Dioxins				0.892	10.017	33.635		0.000		0.72124		0.126	0.721
42	Total Hepta-Dioxins				0.864	10.017	37.640		0.000		0.84911		0.103	2.18
43	Total Tetra-Furans				0.751	10.017	23.610		0.000				0.0201	
44	1st Func. Penta-Furans				0.893	10.017	27.580		0.000				0.0102	
45	Total Penta-Furans				0.893	10.017	29.275		0.000				0.0223	
46	Total Hexa-Furans				0.934	10.017	33.555		0.000				0.0233	
47	Total Hepta-Furans				0.873	10.017	37.835		0.000				0.0487	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-10.qld

Last Altered: Tuesday, June 02, 2020 11:21:02 AM Pacific Daylight Time
 Printed: Tuesday, June 02, 2020 11:21:32 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: 200601R3_10, Date: 01-Jun-2020, Time: 22:01:20, ID: 2000855-04 PDI-047SC-A-07-08-191001 13.16, Description: PDI-047SC-A-07-08-191001

Tetra-Dioxins

		m1 Height	m2 Height	m1 Resp	m2 Resp	PA	TCDF	TCDF	TCDF	TCDF	
Total Tetra-Dioxins	24.36	1.873e3	2.039e3	1.209e2	1.607e2	0.75	NO	2.816e2	0.093778	0.093778	0.0454

Penta-Dioxins

		m1 Height	m2 Height	m1 Resp	m2 Resp	PA	TCDF	TCDF	TCDF	TCDF	

Hexa-Dioxins

		m1 Height	m2 Height	m1 Resp	m2 Resp	PA	TCDF	TCDF	TCDF	TCDF	
Total Hexa-Dioxins	33.35	1.204e4	1.283e4	6.115e2	5.602e2	1.09	NO	1.172e3	0.48925	0.48925	0.126
Total Hexa-Dioxins	34.15	3.909e3	4.951e3	3.090e2	2.466e2	1.25	NO	5.556e2	0.23198	0.23198	0.126

Hepta-Dioxins

		m1 Height	m2 Height	m1 Resp	m2 Resp	PA	TCDF	TCDF	TCDF	TCDF	
Total Hepta-Dioxins	37.78	2.119e4	1.610e4	1.469e3	1.157e3	1.27	YES	0.000e0	0.00000	1.3297	0.103
1,2,3,4,6,7,8-HpCDD	38.78	1.105e4	9.902e3	7.704e2	7.363e2	1.05	NO	1.507e3	0.84911	0.84911	0.103

Tetra-Furans

		m1 Height	m2 Height	m1 Resp	m2 Resp	PA	TCDF	TCDF	TCDF	TCDF	

Penta-Furans function 1

		m1 Height	m2 Height	m1 Resp	m2 Resp	PA	TCDF	TCDF	TCDF	TCDF	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-10.qld

Last Altered: Tuesday, June 02, 2020 11:21:02 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 11:21:32 AM Pacific Daylight Time

Name: 200601R3_10, Date: 01-Jun-2020, Time: 22:01:20, ID: 2000855-04 PDI-047SC-A-07-08-191001 13.16, Description: PDI-047SC-A-07-08-191001

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n1	n2	Resp	Occur	Time
------	----	-----------	-----------	---------	---------	----	----	----	------	-------	------

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n1	n2	Resp	Occur	Time
------	----	-----------	-----------	---------	---------	----	----	----	------	-------	------

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n1	n2	Resp	Occur	Time
------	----	-----------	-----------	---------	---------	----	----	----	------	-------	------

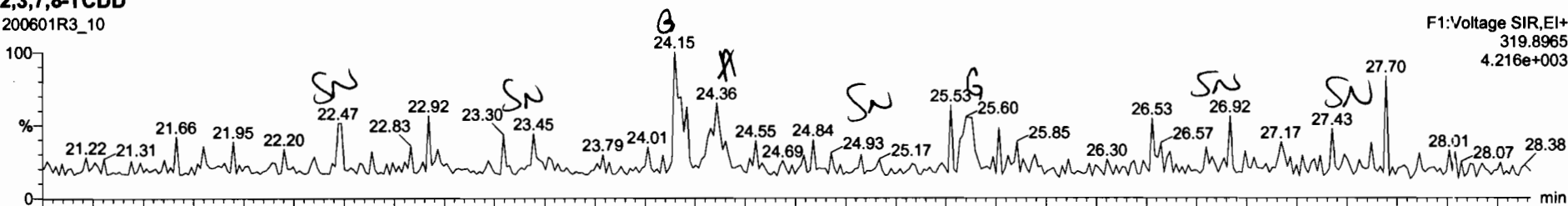
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

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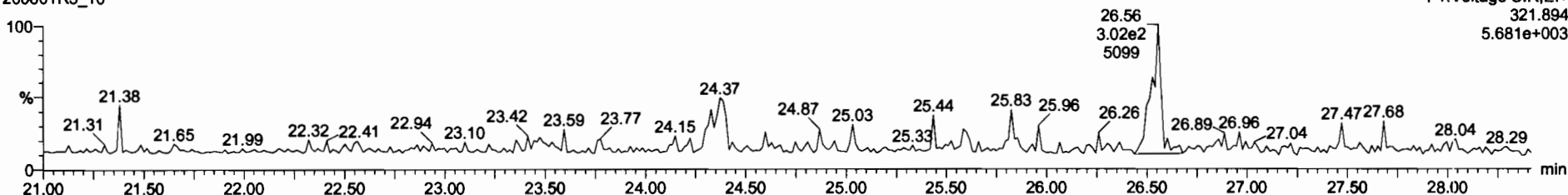
2,3,7,8-TCDD

200601R3_10



F1: Voltage SIR, EI+
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4.216e+003

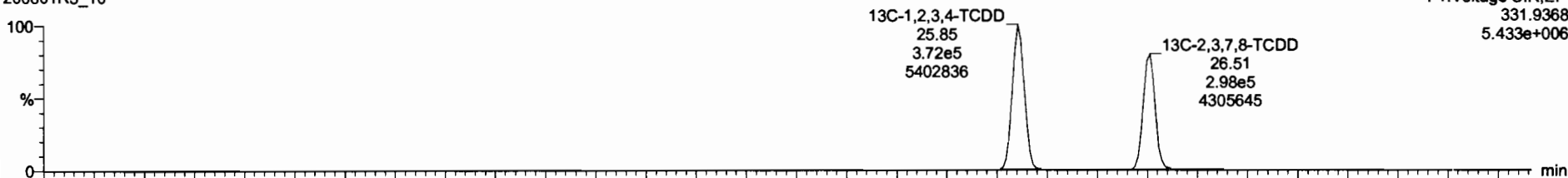
200601R3_10



F1: Voltage SIR, EI+
321.894
5.681e+003

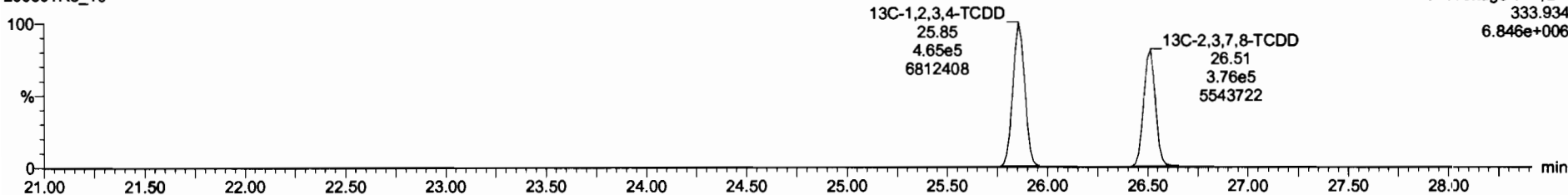
13C-2,3,7,8-TCDD

200601R3_10



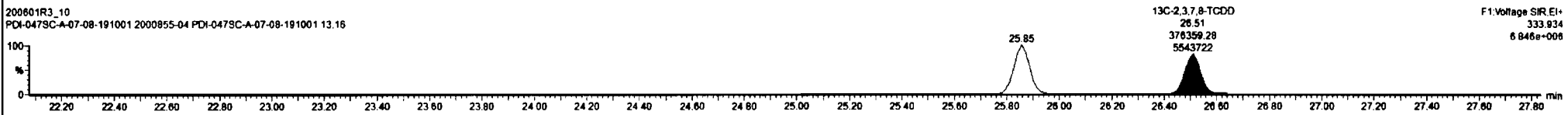
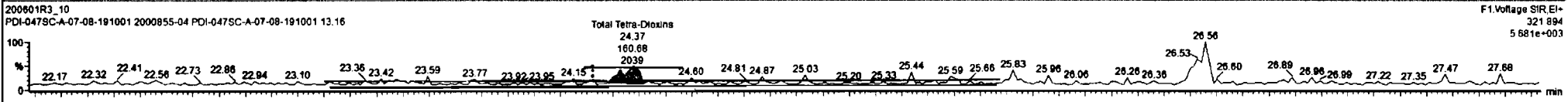
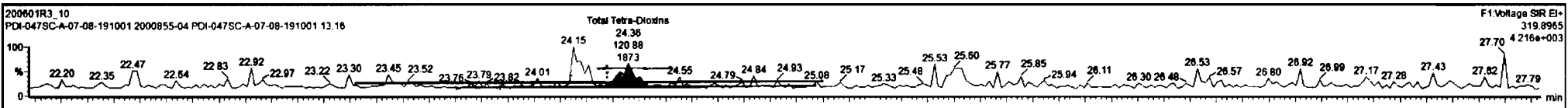
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331.9368
5.433e+006

200601R3_10



F1: Voltage SIR, EI+
333.934
6.846e+006

13C-1,2,3,4,6,8-HxCDF	7.54e5	0.51	NO	1.0000	10.017	34.38	1.000	200	100	0.403
Total Penta-Dioxins				0.9001	10.017					0.8456
Total Hexa-Dioxins				0.8623	10.017			0.721		0.126 0.721
Total Hepta-Dioxins				0.8639	10.017			0.849		0.103 2.18
Total Tetra-Furans				0.7510	10.017					0.0201
1st Func. Penta-Furans				0.8025	10.017					0.0102
Total Penta-Furans				0.8025	10.017					0.0223
Total Hexa-Furans				0.9341	10.017					0.0233
Total Hepta-Furans				0.8734	10.017					0.0487
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										

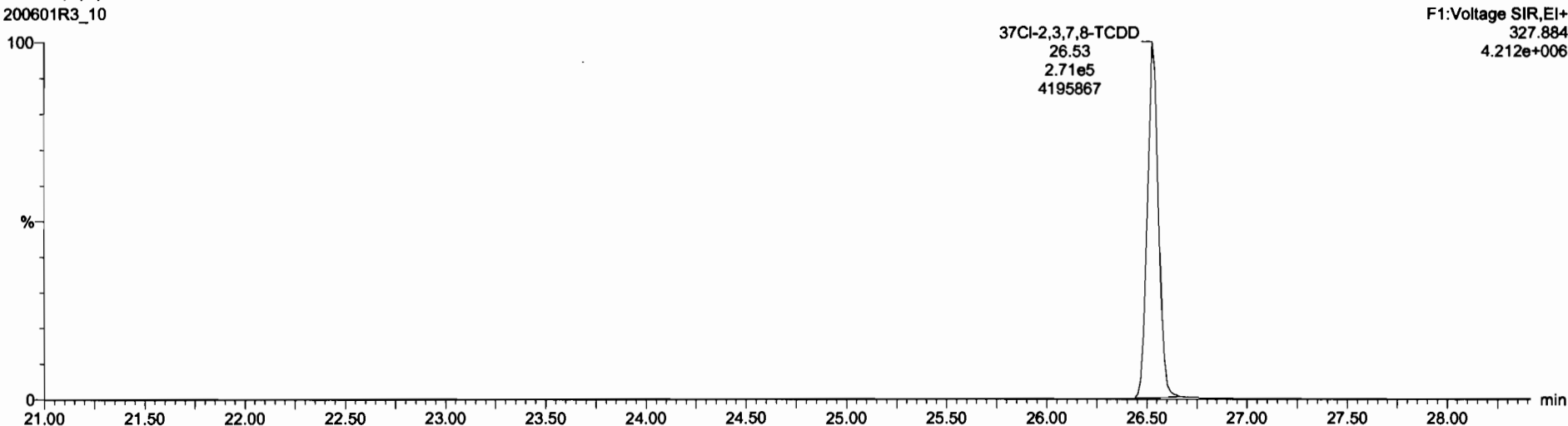


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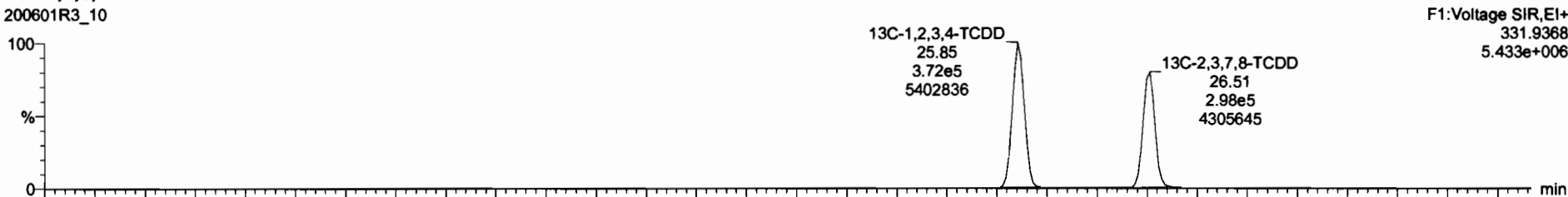
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

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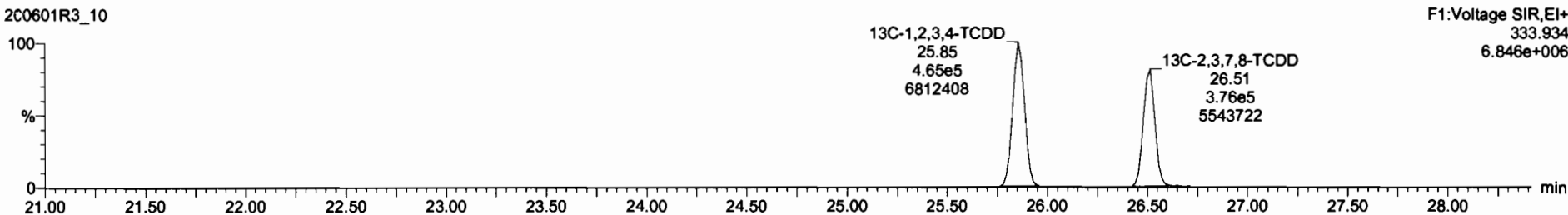
37Cl-2,3,7,8-TCDD
200601R3_10



13C-1,2,3,4-TCDD
200601R3_10



2C0601R3_10



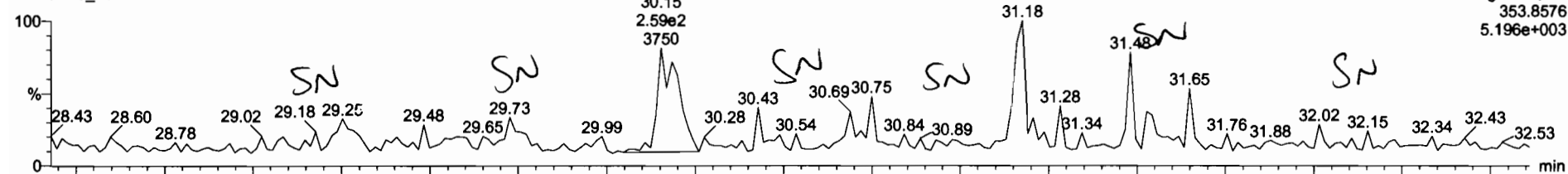
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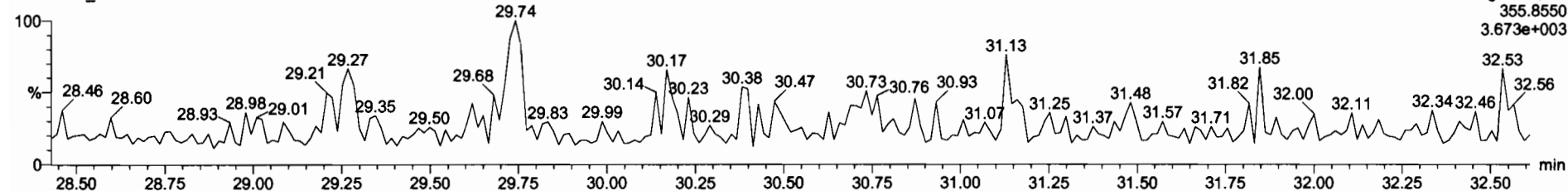
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1,2,3,7,8-PeCDD

200601R3_10

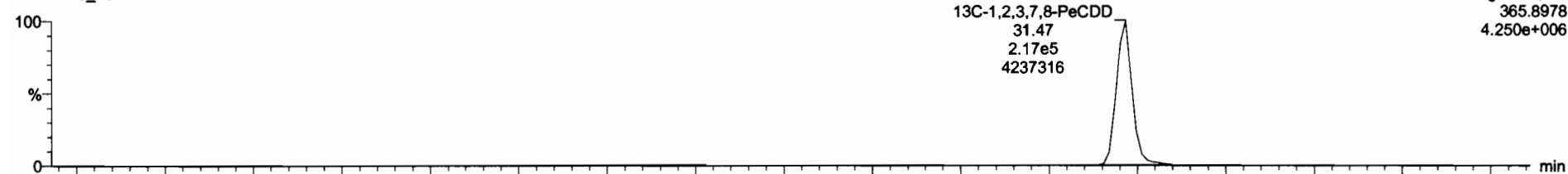


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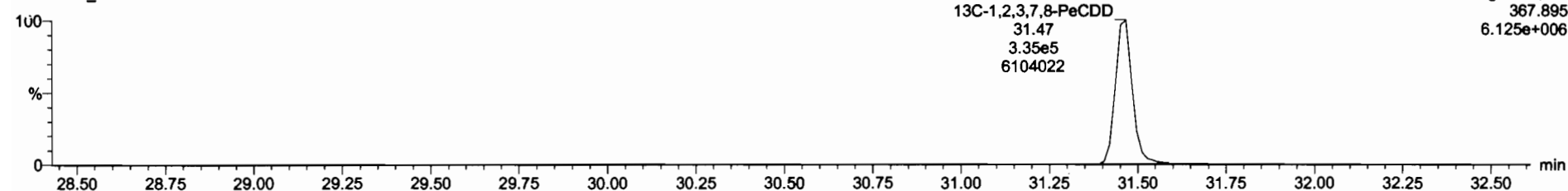


13C-1,2,3,7,8-PeCDD

200601R3_10



200601R3_10



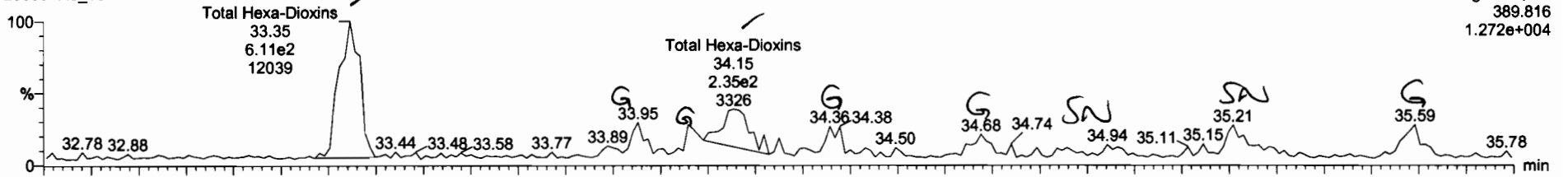
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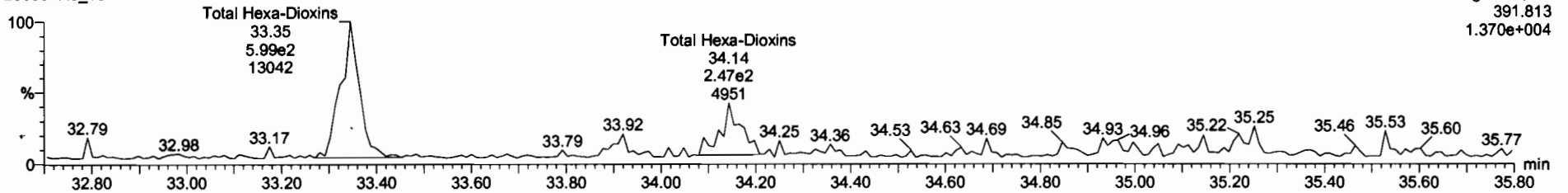
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1,2,3,4,7,8-HxCDD

200601R3_10

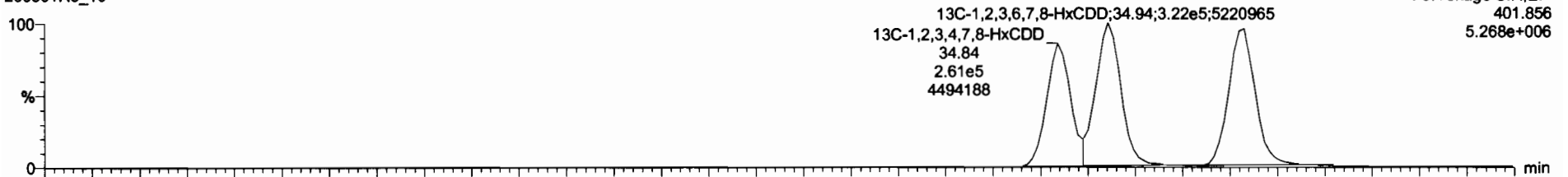


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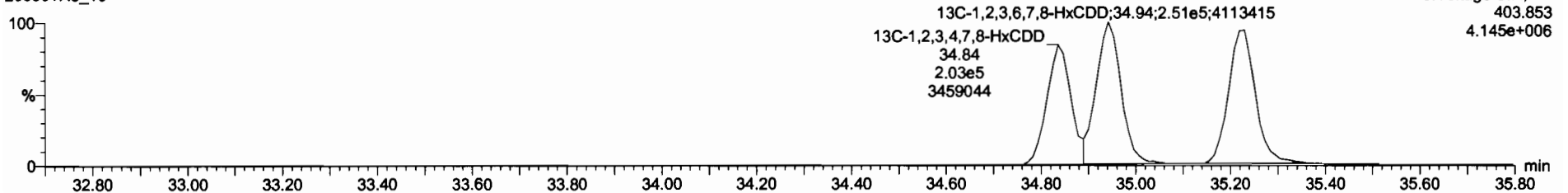


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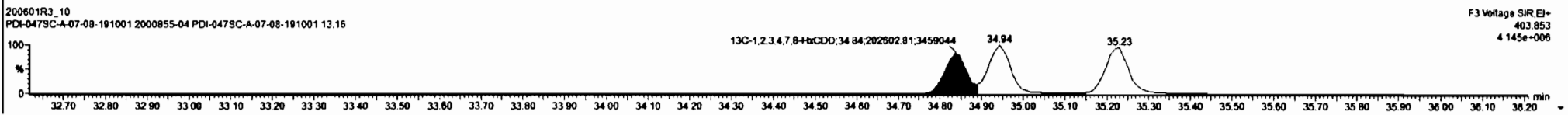
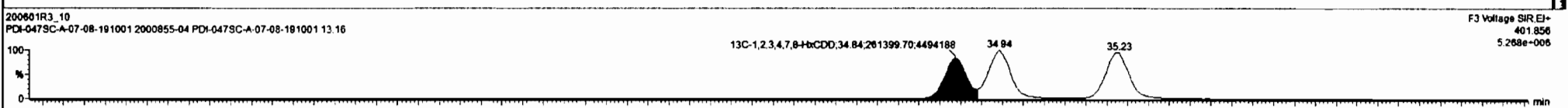
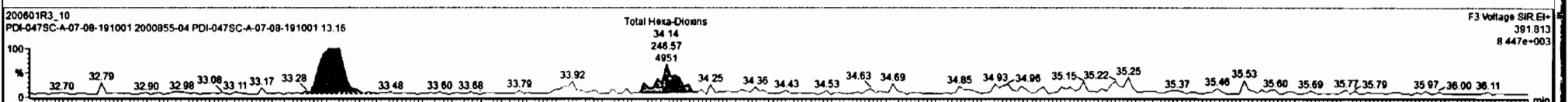
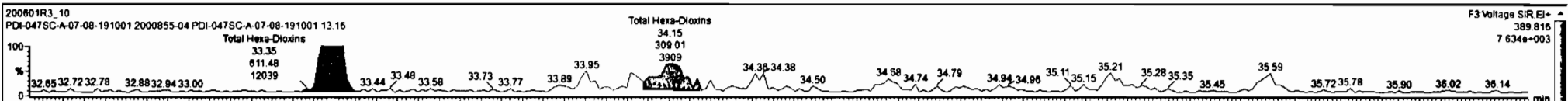
200601R3_10



200601R3_10



13C-1,2,3,4,6,8-HrCDF	7.54e5	0.51	NO	1.0000	10.017	34.36	1.000	200	100	0.403
Total Tetra-Dioxins				0.0083	10.017			0.0836		0.0454 0.0940
Total Penta-Dioxins				0.9081	10.017					0.0456
Total Hepta-Dioxins				0.0030	10.017			0.649		0.103 2.18
Total Tetra-Furans				0.7510	10.017					0.0201
1st Func. Penta-Furans				0.0025	10.017					0.0102
Total Penta-Furans				0.0025	10.017					0.0223
Total Hexa-Furans				0.9341	10.017					0.0233
Total Hepta-Furans				0.0734	10.017					0.0487
PPK1										
PPK2										
PPK3										
PPK4										
PPK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



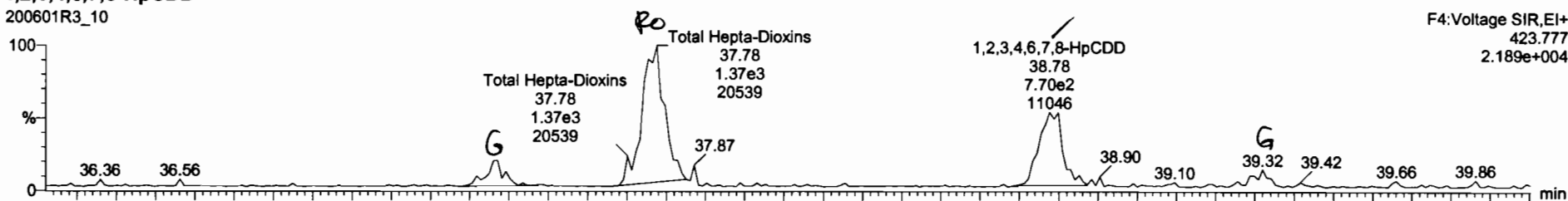
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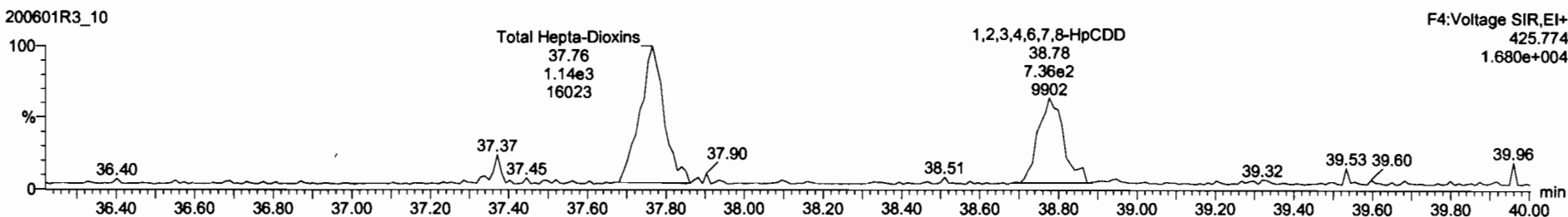
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1,2,3,4,6,7,8-HpCDD

200601R3_10

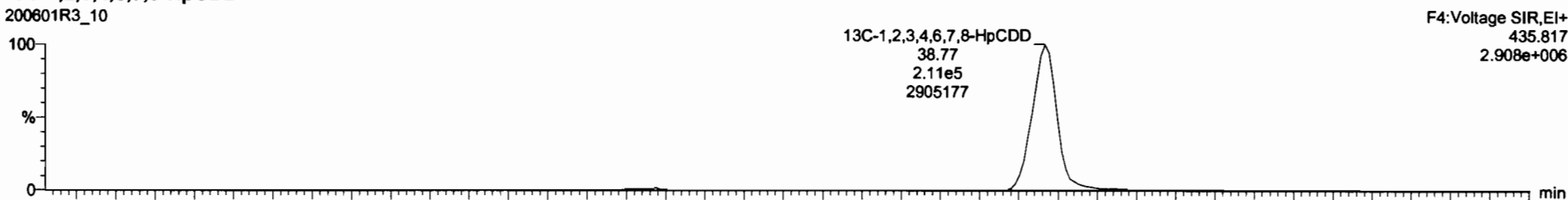


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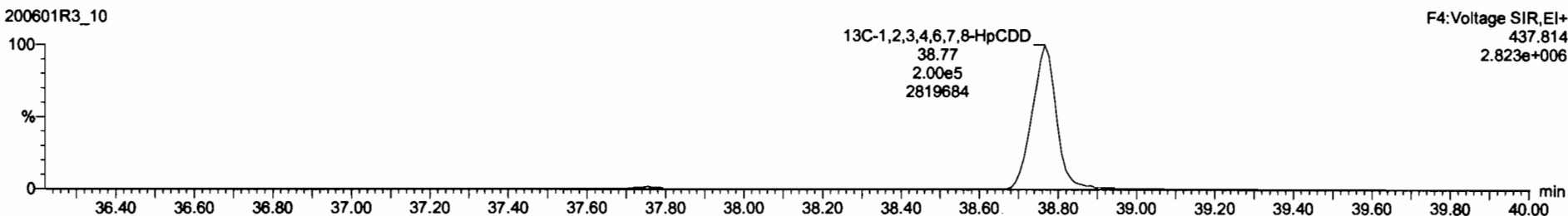


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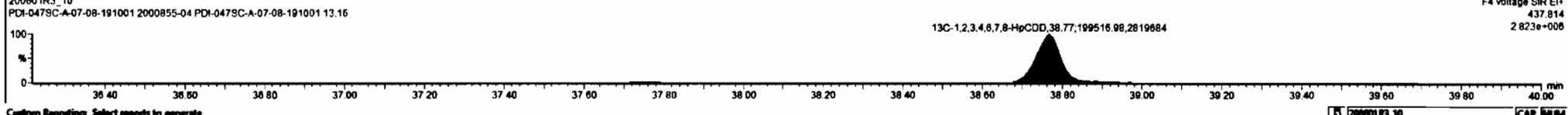
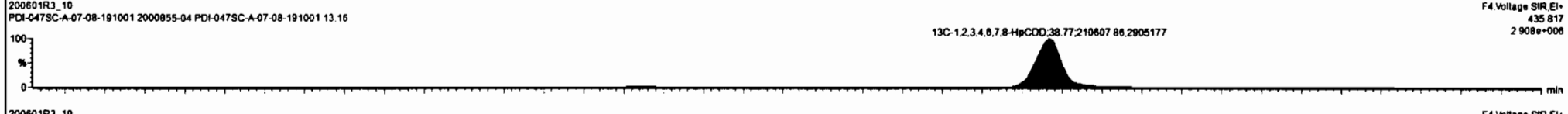
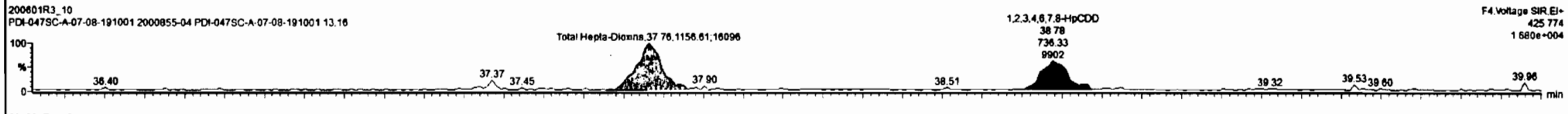
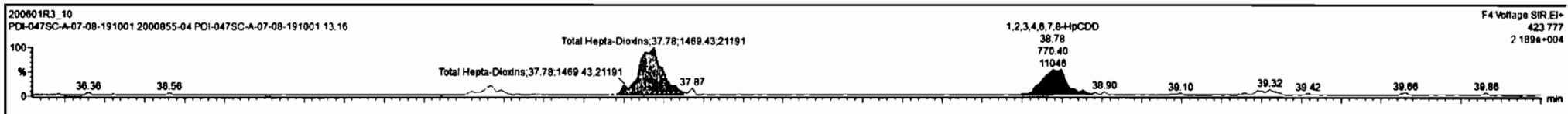
200601R3_10



200601R3_10



13C-1,2,3,4,6,8-HxCDF	7.54e5	0.51	NO	1.0000	10.017	34.36	1.900	200	100	0.403
Total Tetra-Dioxins				0.0883	10.017			0.0938		0.0454 0.0940
Total Penta-Dioxins				0.9081	10.017					0.0456
Total Hexa-Dioxins				0.8823	10.017			0.721		0.126 0.721
Total Tetra-Furans				0.7510	10.017					0.0201
1st Func. Penta-Furans				0.8825	10.017					0.0102
Total Penta-Furans				0.8825	10.017					0.0223
Total Hexa-Furans				0.9341	10.017					0.0233
Total Hepta-Furans				0.8734	10.017					0.0487
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



Dataset: Untitled

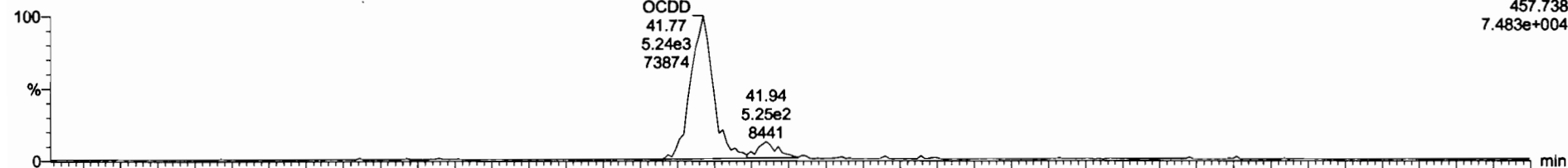
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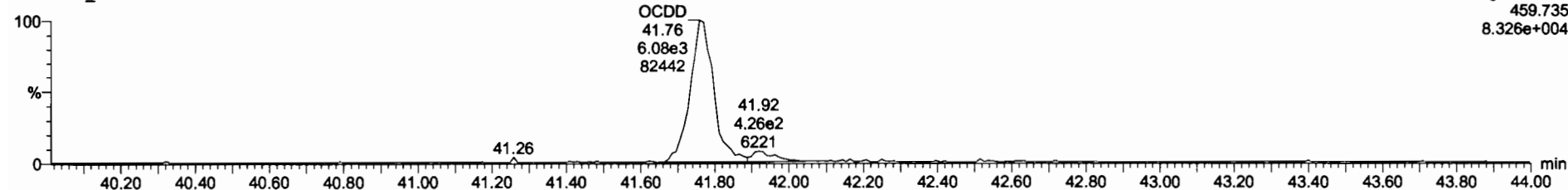
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OCDD

200601R3_10

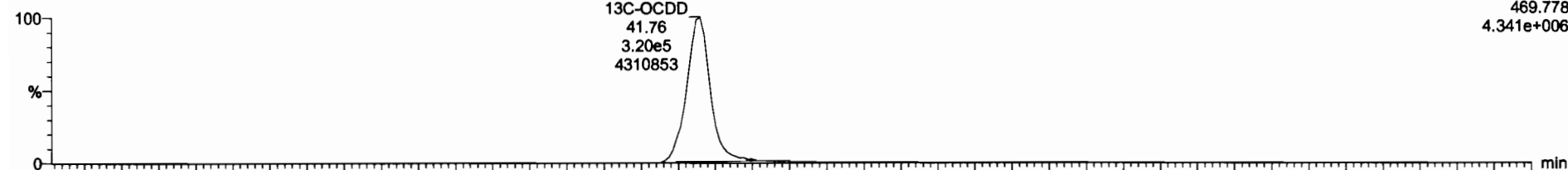


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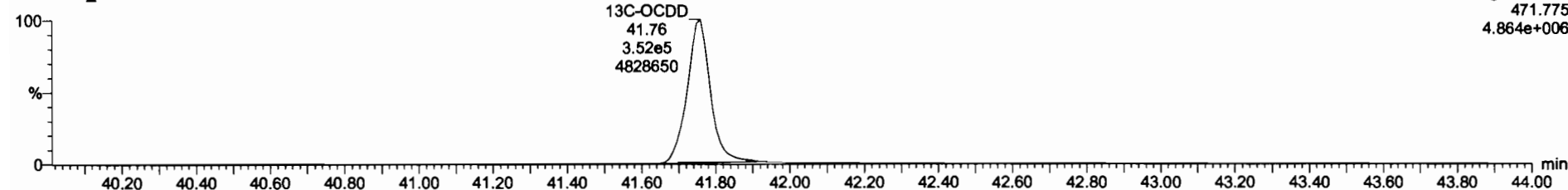


13C-OCDD

200601R3_10



200601R3_10



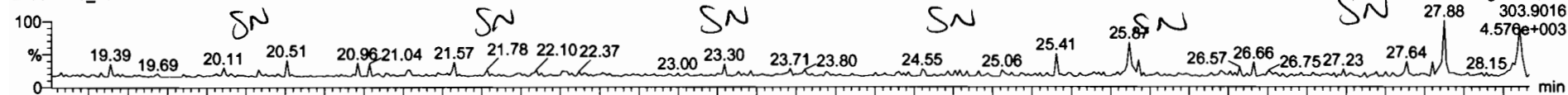
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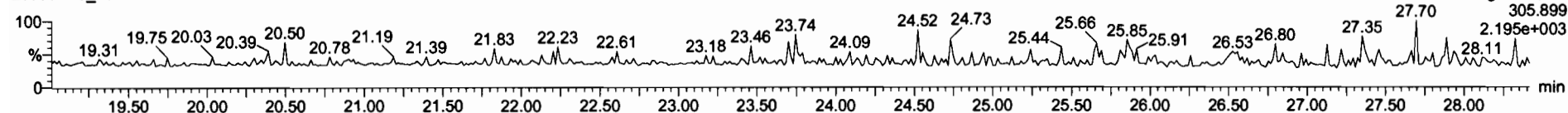
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2,3,7,8-TCDF

200601R3_10

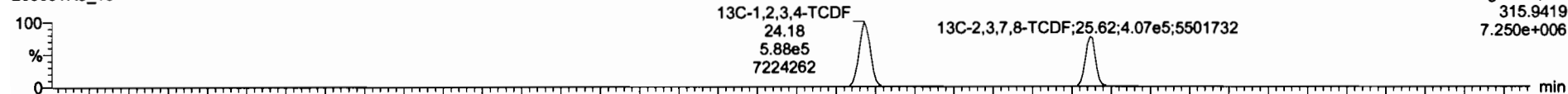


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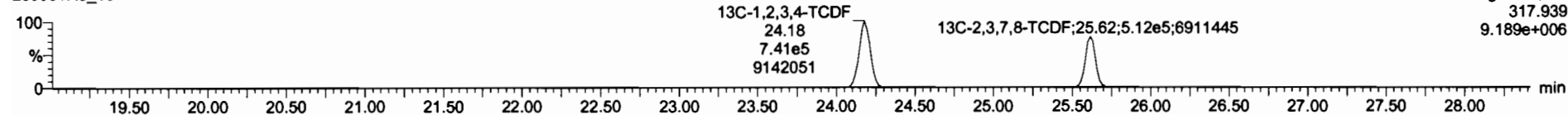


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200601R3_10

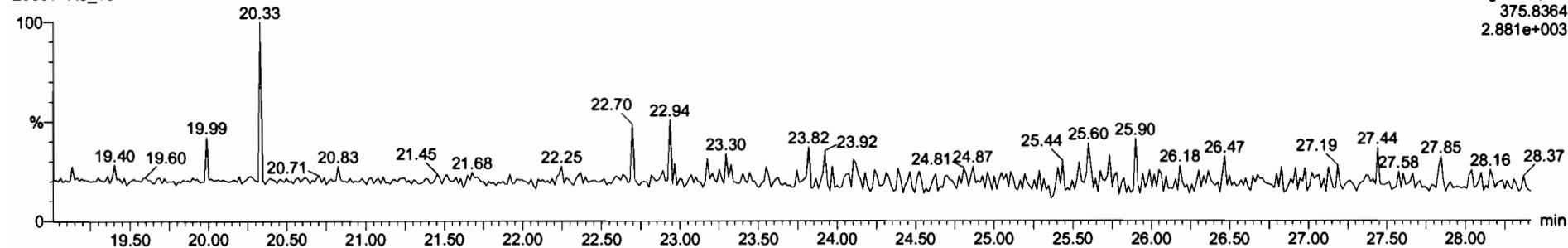


200601R3_10



DPE1

200601R3_10



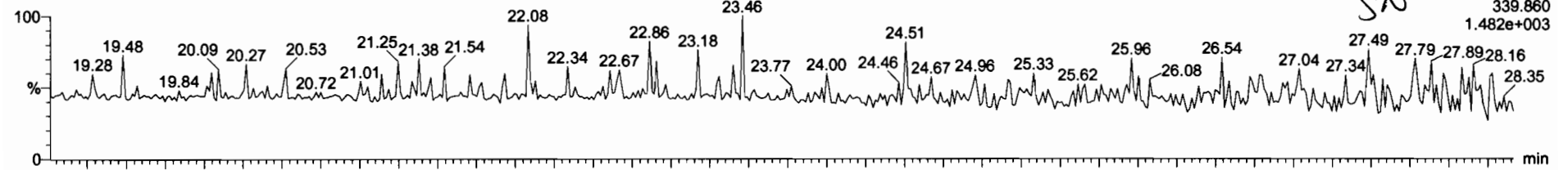
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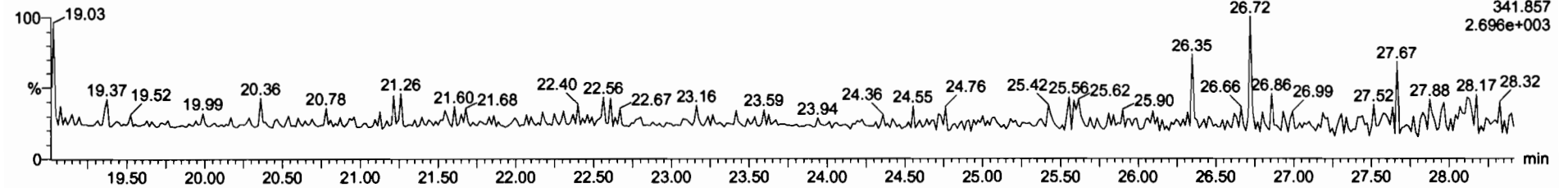
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1st Func. Penta-Furans

200601R3_10

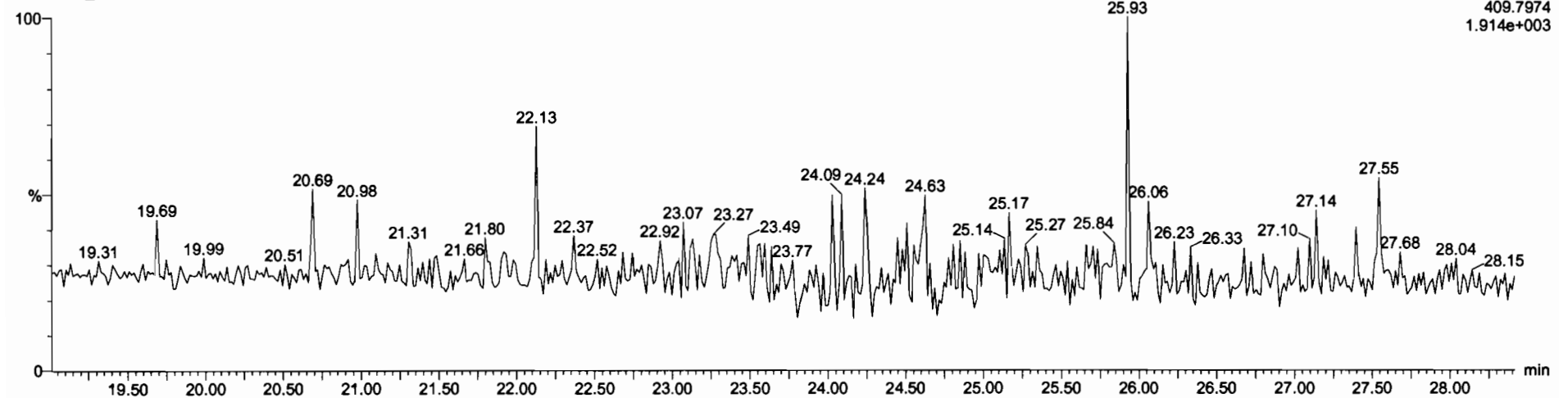


200601R3_10



DPE6

200601R3_10

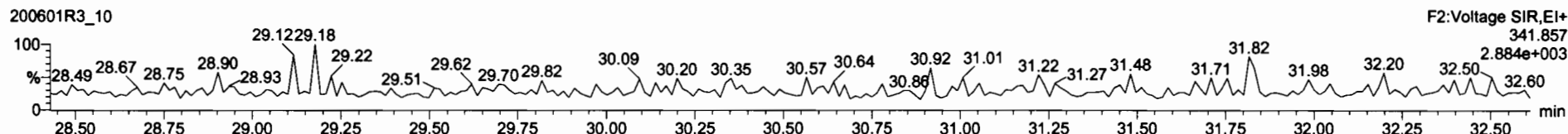
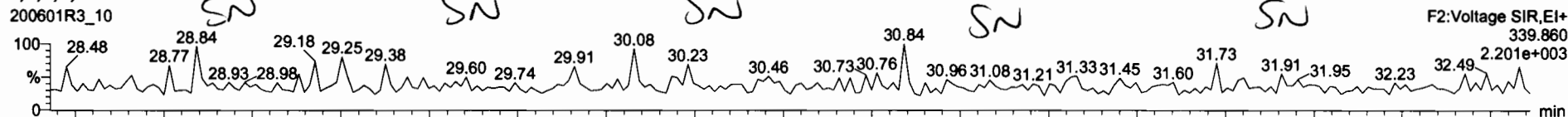


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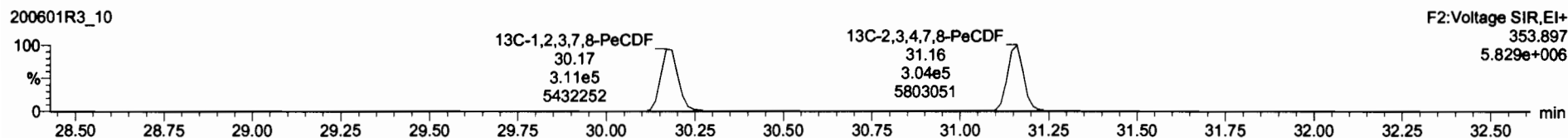
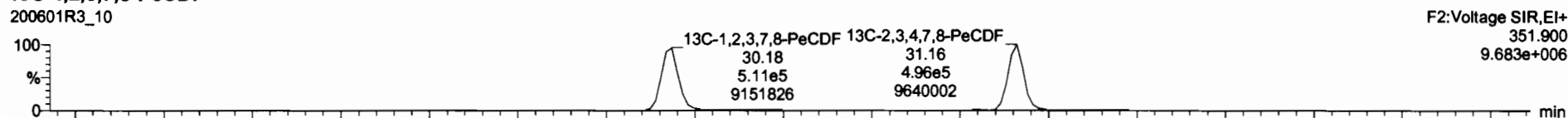
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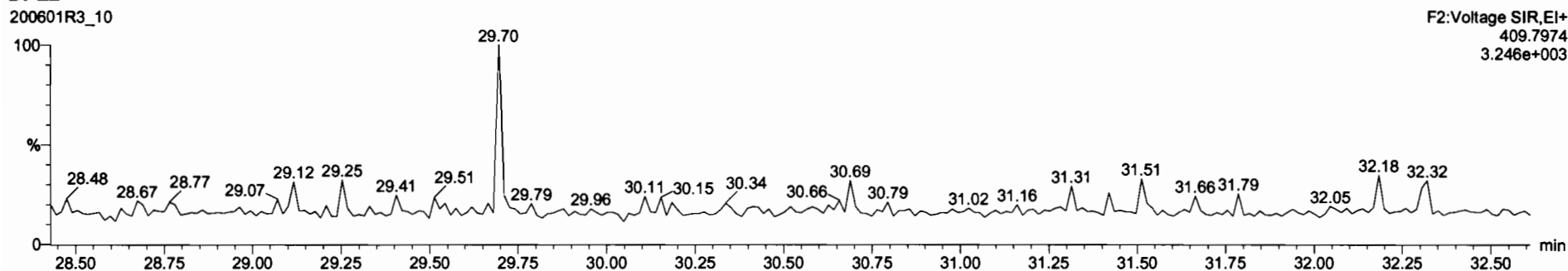
1,2,3,7,8-PeCDF



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



DPE2



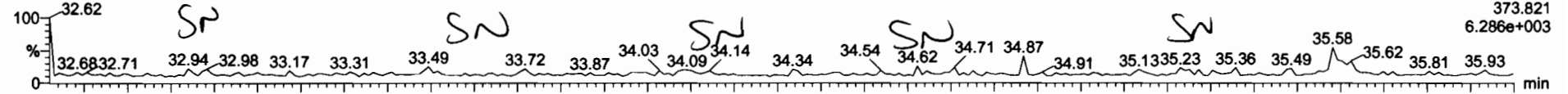
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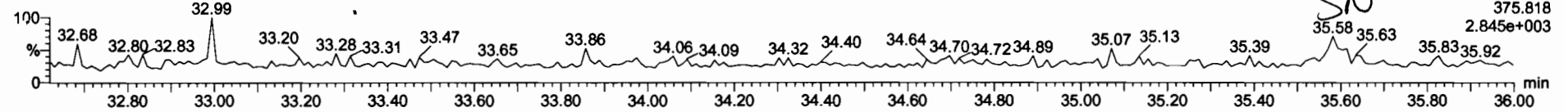
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1,2,3,4,7,8-HxCDF

200601R3_10

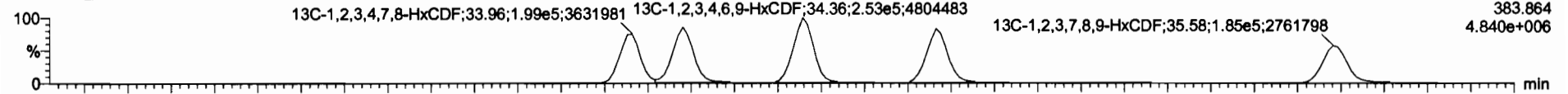


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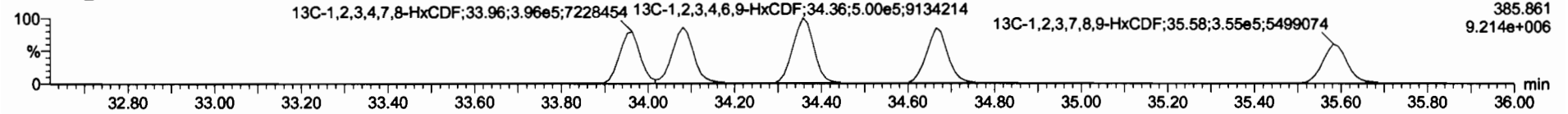


13C-1,2,3,4,7,8-HxCDF

200601R3_10

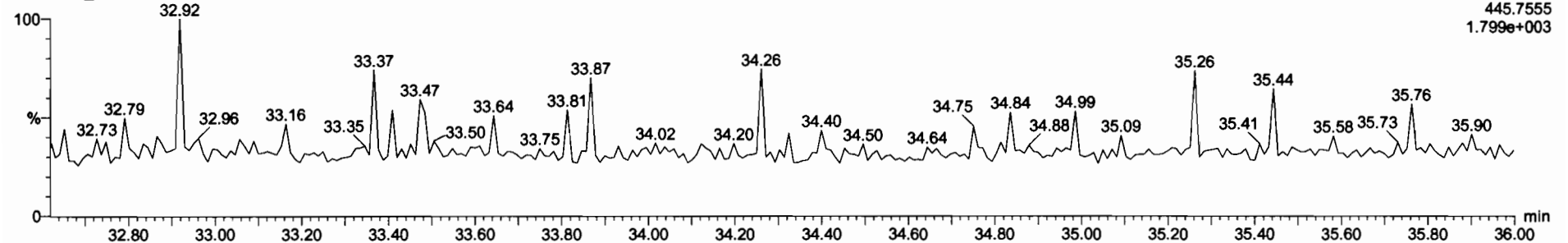


200601R3_10



DPE3

200601R3_10



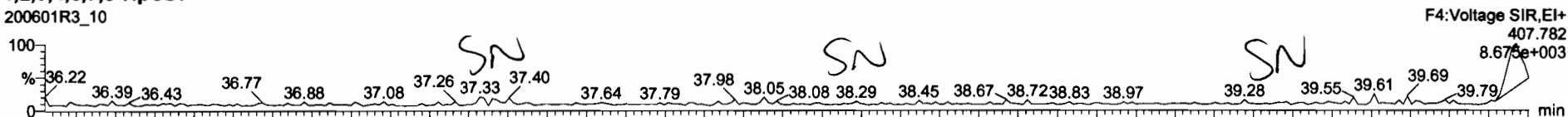
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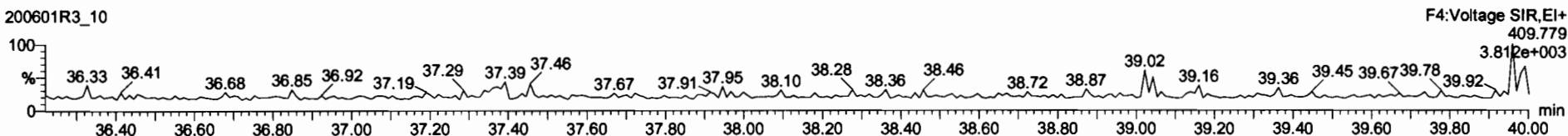
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1,2,3,4,6,7,8-HpCDF

200601R3_10

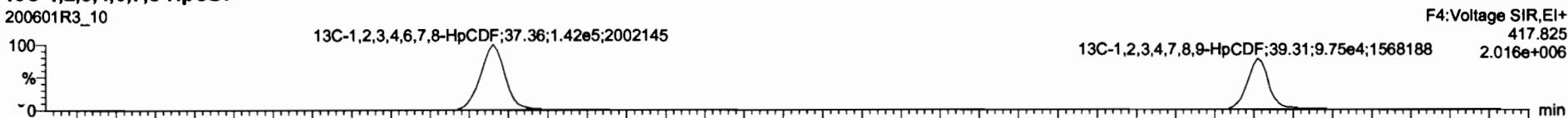


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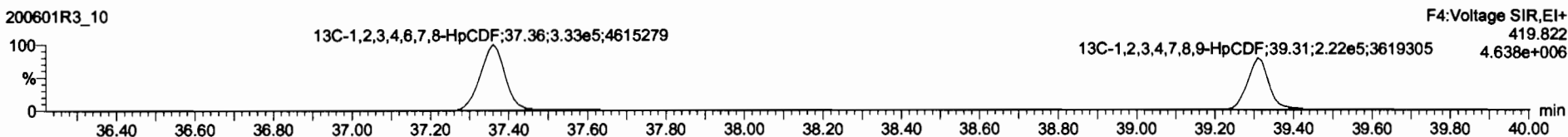


13C-1,2,3,4,6,7,8-HpCDF

200601R3_10

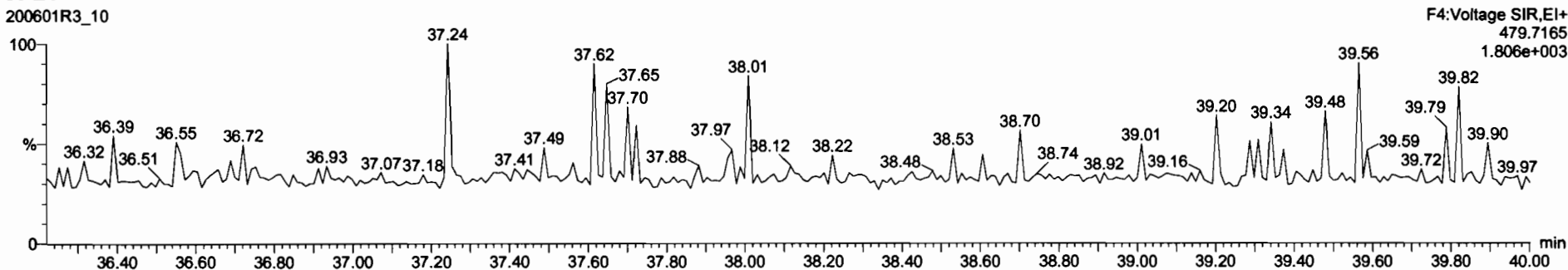


200601R3_10



DPE4

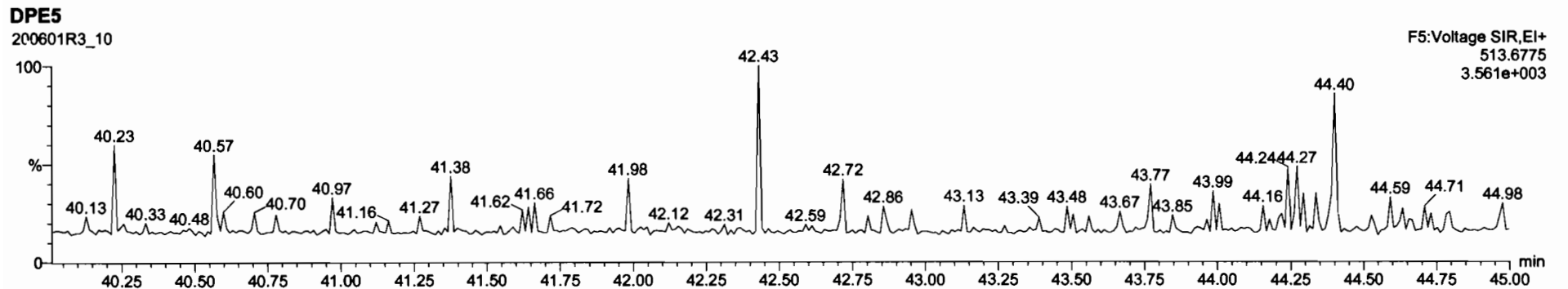
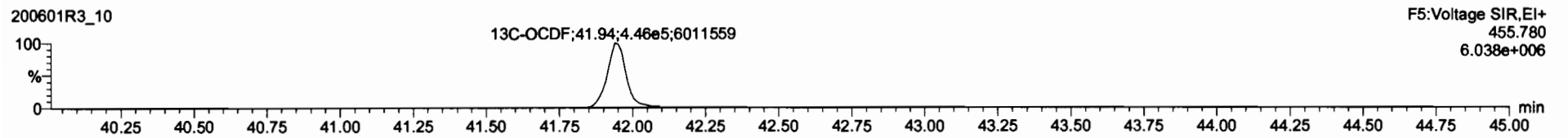
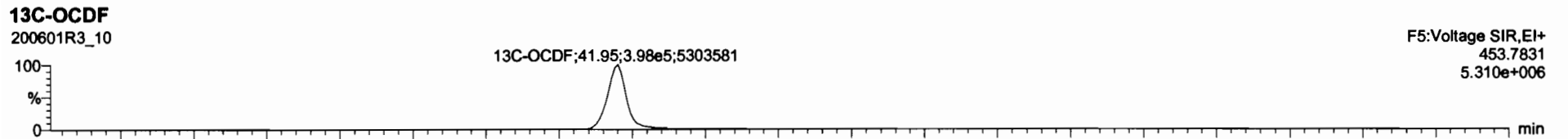
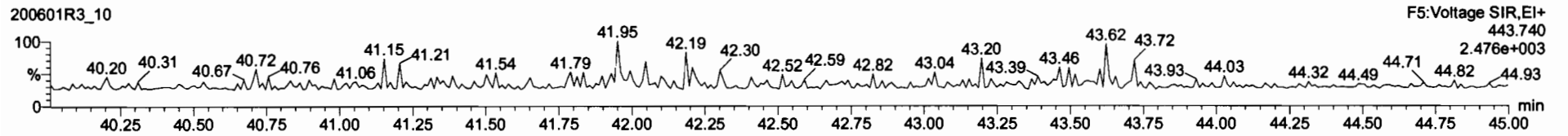
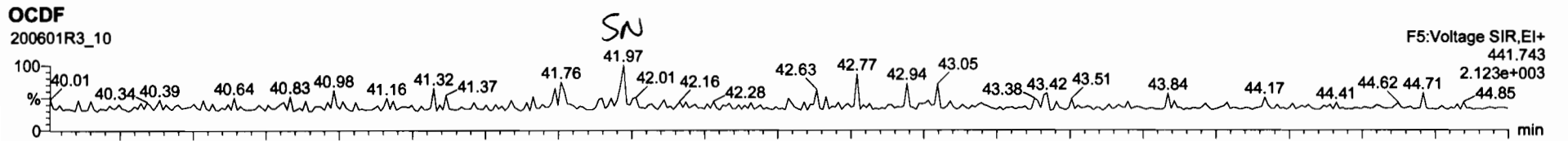
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

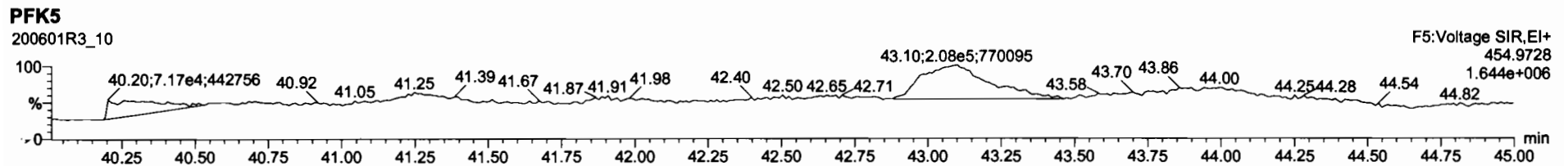
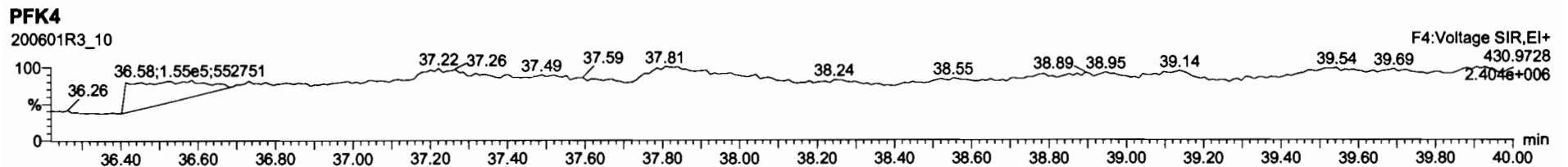
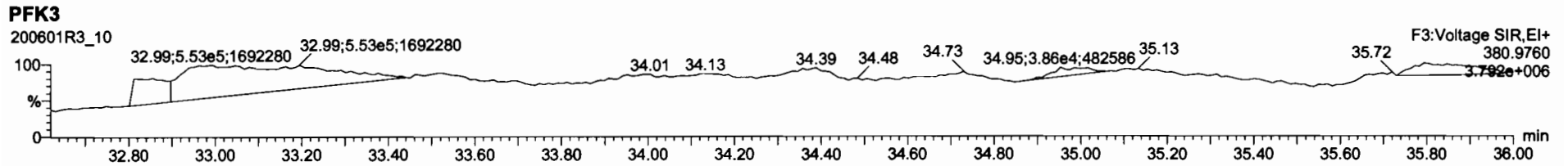
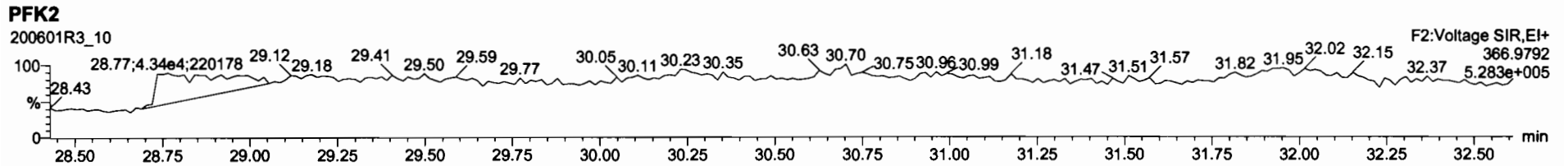
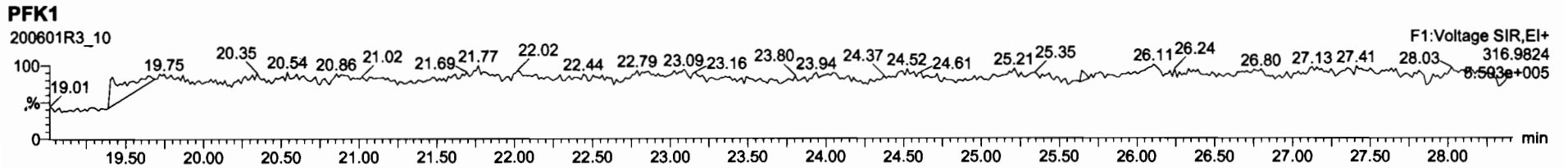
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Dataset: Untitled

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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

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Dataset: U:\VG12.PRO\Results\200601R3\200601R3-11.qld

Last Altered: Tuesday, June 02, 2020 11:29:01 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 11:30:05 AM Pacific Daylight Time

GRB 06/02/2020

CT 06/05/2020

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

Name: 200601R3_11, Date: 01-Jun-2020, Time: 22:47:34, ID: 2000855-05 PDI-049SC-A-08-09-191015 14.33, Description: PDI-049SC-A-08-09-191015

	Pump	RA	n/y	RRF	wt/vol	Prod.RT	Ref.Pk	Prod.RRT	Ref.Pk	Conc.			
1			NO	0.888	10.009	26.546		1.001				0.0625	
2			NO	0.908	10.009	31.488		1.001				0.0952	
3			NO	1.03	10.009	34.857		1.000				0.107	
4			NO	0.892	10.009	34.953		1.000				0.107	
5			NO	0.887	10.009	35.252		1.000				0.125	
6	9.97e2	1.00	NO	0.864	10.009	38.789	38.78	1.000	1.000	0.56860		0.177	0.569
7	6.35e3	0.94	NO	0.914	10.009	41.759	41.77	1.000	1.000	4.4603		0.172	4.46
8			NO	0.751	10.009	25.657		1.001				0.0395	
9			NO	0.893	10.009	30.205		1.001				0.0446	
10			NO	0.935	10.009	31.192		1.001				0.0416	
11			NO	0.884	10.009	33.973		1.000				0.0446	
12			NO	0.889	10.009	34.100		1.000				0.0407	
13			NO	0.934	10.009	34.711		1.001				0.0444	
14			NO	0.871	10.009	35.603		1.000				0.0618	
15			NO	0.873	10.009	37.408		1.001				0.0778	
16			NO	1.01	10.009	39.320		1.000				0.0765	
17			NO	0.806	10.009	41.951		1.000				0.106	
18	8.63e5	0.79	NO	1.16	10.009	26.553	26.51	1.026	1.025	176.87	88.5	0.155	
19	5.93e5	0.65	NO	0.849	10.009	31.748	31.47	1.227	1.216	165.71	82.9	0.265	
20	4.92e5	1.30	NO	0.779	10.009	34.853	34.85	1.014	1.014	163.76	82.0	0.364	
21	5.96e5	1.28	NO	1.02	10.009	34.966	34.95	1.017	1.017	151.94	76.0	0.279	
22	5.58e5	1.29	NO	0.903	10.009	35.238	35.24	1.025	1.025	160.13	80.1	0.314	
23	4.06e5	1.03	NO	0.689	10.009	38.764	38.78	1.128	1.128	152.50	76.3	0.326	
24	6.23e5	0.90	NO	0.652	10.009	41.788	41.76	1.216	1.215	247.27	61.9	0.391	
25	1.18e6	0.79	NO	1.06	10.009	25.593	25.63	0.989	0.991	170.10	85.1	0.215	
26	9.42e5	1.65	NO	0.838	10.009	30.128	30.18	1.165	1.167	171.02	85.6	0.413	
27	9.25e5	1.64	NO	0.817	10.009	31.083	31.16	1.202	1.205	172.44	86.3	0.424	
28	6.45e5	0.51	NO	1.01	10.009	33.983	33.97	0.989	0.989	165.79	83.0	0.458	
29	7.15e5	0.51	NO	1.17	10.009	34.107	34.09	0.992	0.992	158.76	79.4	0.395	
30	6.72e5	0.51	NO	1.02	10.009	34.681	34.68	1.009	1.009	170.31	85.2	0.452	
31	5.58e5	0.50	NO	0.860	10.009	35.581	35.60	1.035	1.036	168.17	84.2	0.537	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-11.qld

Last Altered: Tuesday, June 02, 2020 11:29:01 AM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 11:30:05 AM Pacific Daylight Time

Name: 200601R3_11, Date: 01-Jun-2020, Time: 22:47:34, ID: 2000855-05 PDI-049SC-A-08-09-191015 14.33, Description: PDI-049SC-A-08-09-191015

32	13C-1,2,3,4,6,7,8-HpCDF	4.54e5	0.43	NO	0.774	10.009	37.331	37.37	1.086	1.087	151.69	75.9	0.258	
33	13C-1,2,3,4,7,8,9-HpCDF	3.19e5	0.43	NO	0.521	10.009	39.362	39.32	1.145	1.144	158.58	79.4	0.383	
34	13C-OCDF	7.65e5	0.86	NO	0.746	10.009	41.960	41.95	1.221	1.221	265.60	66.5	0.292	
35	37Cl-2,3,7,8-TCDD	3.57e5			1.04	10.009	26.584	26.54	1.028	1.026	81.625	102	0.0763	
36	13C-1,2,3,4-TCDD	8.43e5	0.80	NO	1.00	10.009	25.890	25.87	1.000	1.000	199.83	100	0.179	
37	13C-1,2,3,4-TCDF	1.31e6	0.80	NO	1.00	10.009	24.360	24.19	1.000	1.000	199.83	100	0.228	
38	13C-1,2,3,4,6,9-HxCDF	7.72e5	0.51	NO	1.00	10.009	34.420	34.37	1.000	1.000	199.83	100	0.461	
39	Total Tetra-Dioxins				0.888	10.009	24.620		0.000		0.58916		0.0625	0.589
40	Total Penta-Dioxins				0.908	10.009	29.960		0.000		0.27168		0.0952	0.272
41	Total Hexa-Dioxins				0.892	10.009	33.635		0.000		0.82998		0.118	0.830
42	Total Hepta-Dioxins				0.864	10.009	37.640		0.000		1.5778		0.177	1.58
43	Total Tetra-Furans				0.751	10.009	23.610		0.000		0.15479		0.0200	0.155
44	1st Func. Penta-Furans				0.893	10.009	27.580		0.000				0.00922	
45	Total Penta-Furans				0.893	10.009	29.275		0.000				0.0190	
46	Total Hexa-Furans				0.934	10.009	33.555		0.000				0.0243	
47	Total Hepta-Furans				0.873	10.009	37.835		0.000				0.0441	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-11.qld

Last Altered: Tuesday, June 02, 2020 11:29:01 AM Pacific Daylight Time
 Printed: Tuesday, June 02, 2020 11:30:05 AM Pacific Daylight Time

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Name: 200601R3_11, Date: 01-Jun-2020, Time: 22:47:34, ID: 2000855-05 PDI-049SC-A-08-09-191015 14.33, Description: PDI-049SC-A-08-09-191015

Tetra-Dioxins

Name	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	24.36	9.120e3	1.352e4	7.709e2	1.066e3	0.72	NO	1.837e3	0.47902	0.47902	0.0625
Total Tetra-Dioxins	25.84	3.278e3	3.147e3	1.934e2	2.289e2	0.84	NO	4.224e2	0.11014	0.11014	0.0625

Penta-Dioxins

Name	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.28	1.695e3	1.911e3	7.013e1	1.188e2	0.59	NO	1.890e2	0.070082	0.070082	0.0952
Total Penta-Dioxins	29.77	3.454e3	7.974e3	1.908e2	3.528e2	0.54	NO	5.436e2	0.20160	0.20160	0.0952

Hexa-Dioxins

Name	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.36	1.474e4	1.194e4	7.549e2	5.878e2	1.28	NO	1.343e3	0.54776	0.54776	0.118
Total Hexa-Dioxins	34.15	4.599e3	3.594e3	3.797e2	3.122e2	1.22	NO	6.918e2	0.28222	0.28222	0.118

Hepta-Dioxins

Name	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.78	1.248e4	1.245e4	9.181e2	8.522e2	1.08	NO	1.770e3	1.0092	1.0092	0.177
1,2,3,4,6,7,8-HpCDD	38.78	7.262e3	8.409e3	4.990e2	4.985e2	1.00	NO	9.975e2	0.56860	0.56860	0.177

Tetra-Furans

Name	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Conc	EMPC	DL
Total Tetra-Furans	21.53	3.376e3	4.257e3	2.953e2	3.934e2	0.75	NO	6.887e2	0.15479	0.15479	0.0200

Penta-Furans function 1

Name	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Conc	EMPC	DL

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-11.qld

Last Altered: Tuesday, June 02, 2020 11:29:01 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 11:30:05 AM Pacific Daylight Time

Name: 200601R3_11, Date: 01-Jun-2020, Time: 22:47:34, ID: 2000855-05 PDI-049SC-A-08-09-191015 14.33, Description: PDI-049SC-A-08-09-191015

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Area	Ratio

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Area	Ratio

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Area	Ratio

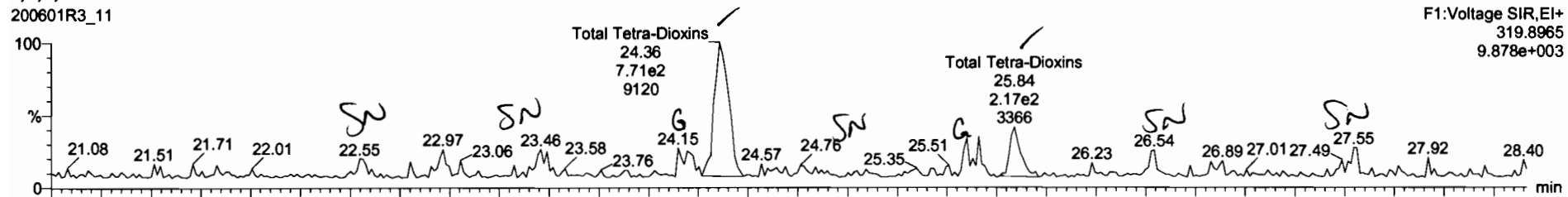
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

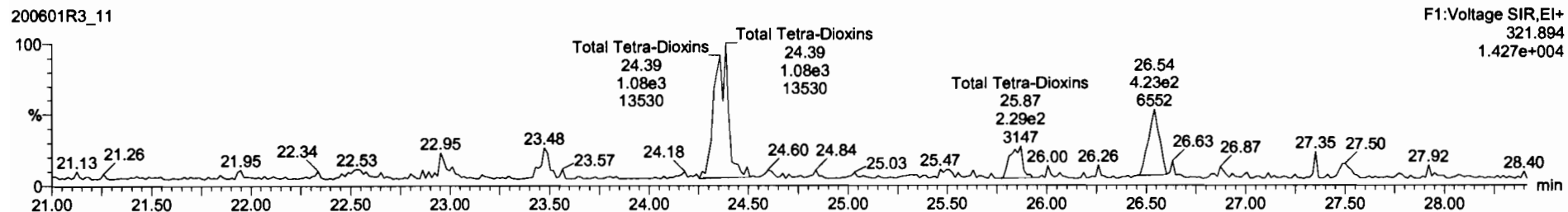
Name: 200601R3_11, Date: 01-Jun-2020, Time: 22:47:34, ID: 2000855-05 PDI-049SC-A-08-09-191015 14.33, Description: PDI-049SC-A-08-09-191015

2,3,7,8-TCDD

200601R3_11

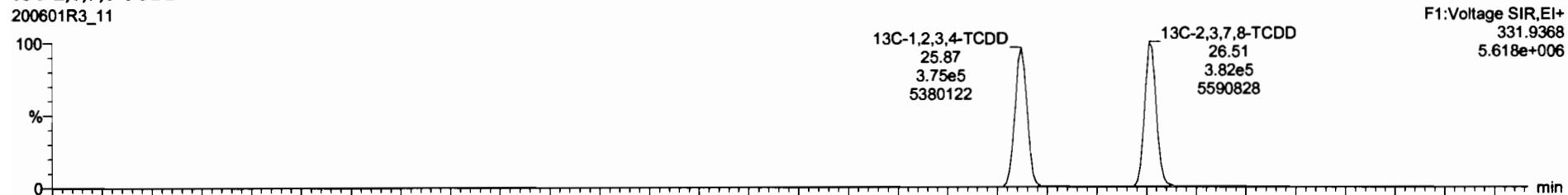


200601R3_11

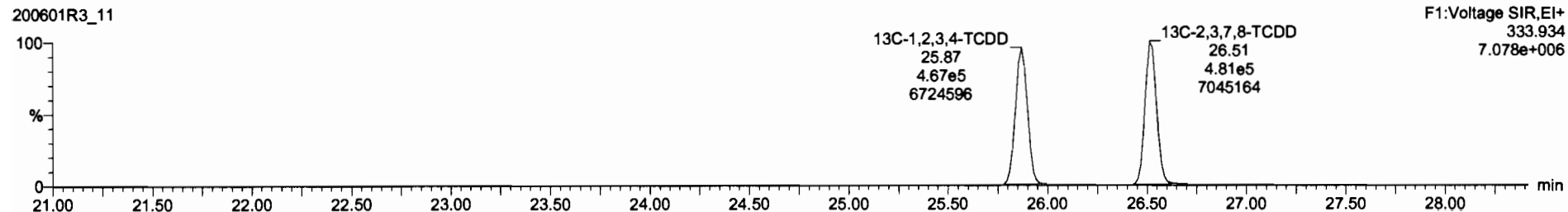


13C-2,3,7,8-TCDD

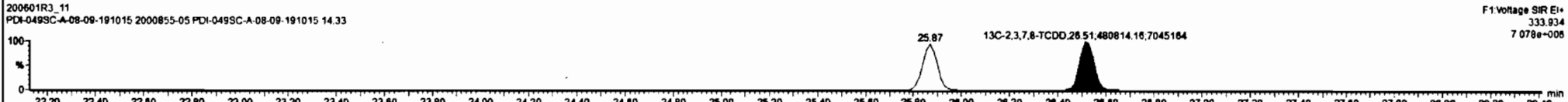
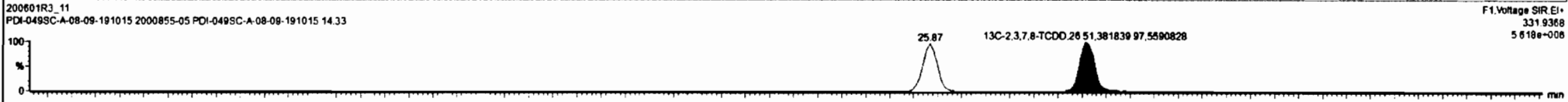
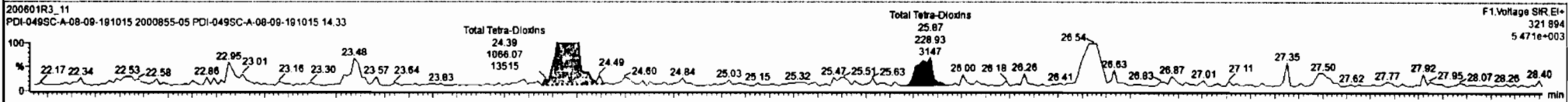
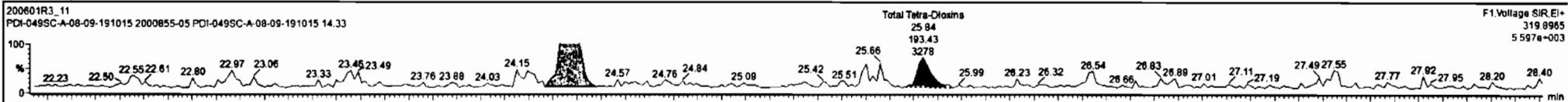
200601R3_11



200601R3_11



13C-1,2,3,4,6,8- ¹³ CDF	7.72e5	0.51	NO	1.0000	10.009	34.37	1.000	200	100	0.461	
Total Penta-Dioxine				0.9081	10.009			0.272		0.0952	0.272
Total Hexa-Dioxine				0.8623	10.009			0.830		0.118	0.830
Total Hepta-Dioxine				0.8639	10.009			1.58		0.177	1.58
Total Tetra-Furane				0.7510	10.009			0.155		0.0200	0.155
1st Func. Penta-Furane				0.8825	10.009					0.00922	
Total Penta-Furane				0.8825	10.009					0.0190	
Total Hexa-Furane				0.9341	10.009					0.0243	
Total Hepta-Furane				0.8734	10.009					0.0441	
PPK1											
PPK2											
PPK3											
PPK4											
PPK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



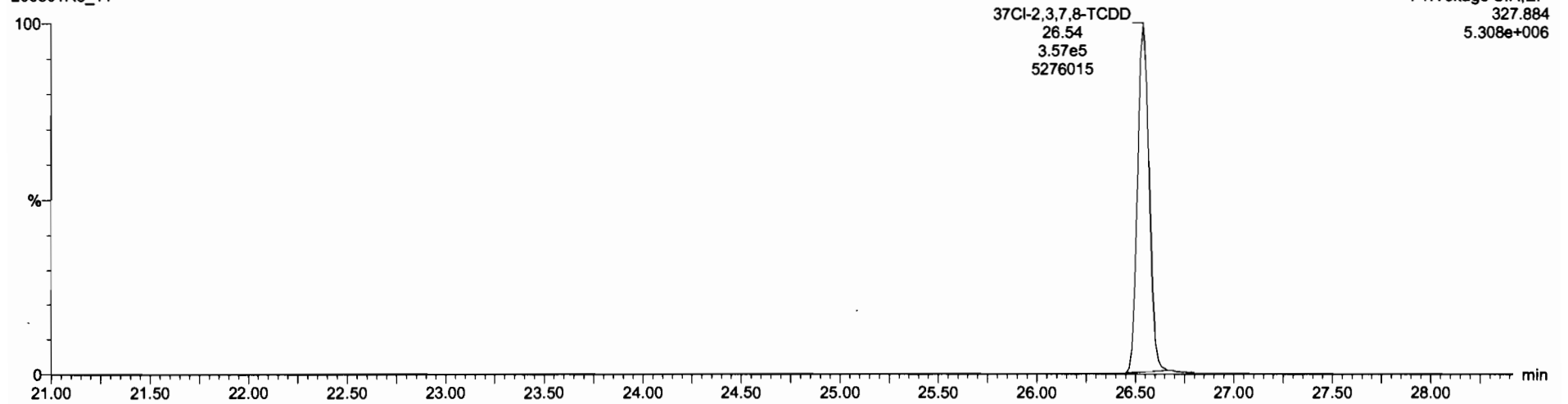
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_11, Date: 01-Jun-2020, Time: 22:47:34, ID: 2000855-05 PDI-049SC-A-08-09-191015 14.33, Description: PDI-049SC-A-08-09-191015

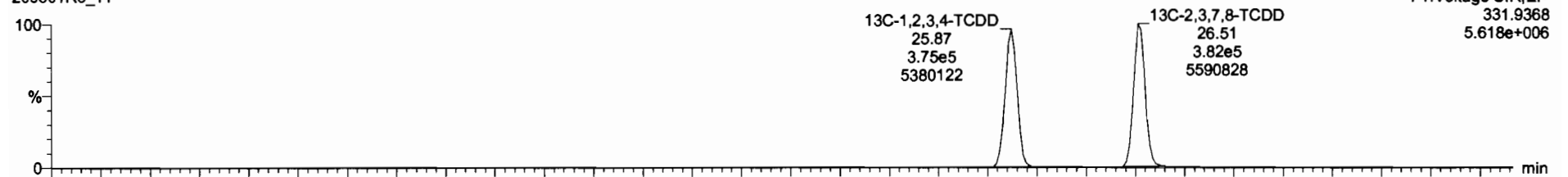
37Cl-2,3,7,8-TCDD

200601R3_11

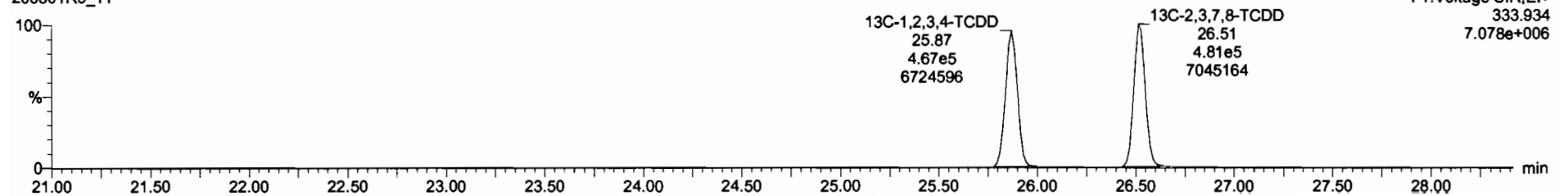


13C-1,2,3,4-TCDD

200601R3_11



200601R3_11



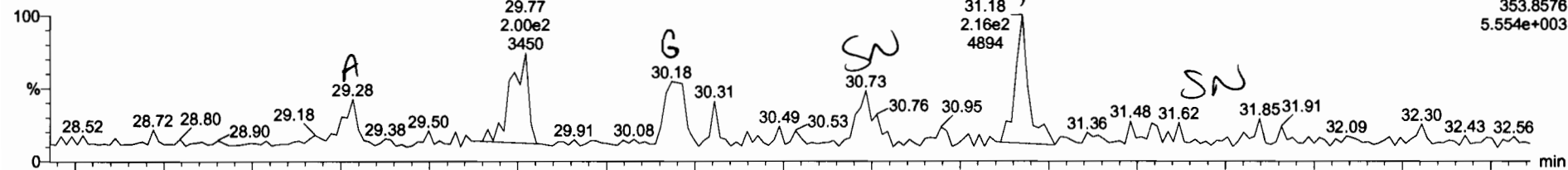
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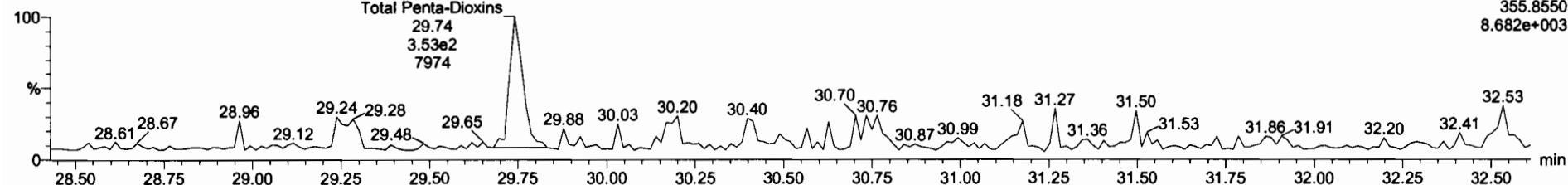
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1,2,3,7,8-PeCDD

200601R3_11

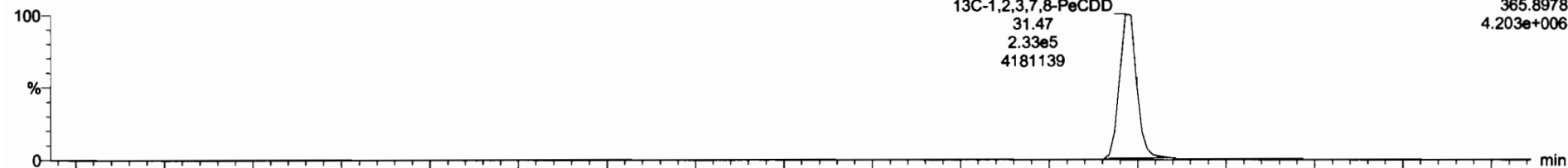


200601R3_11

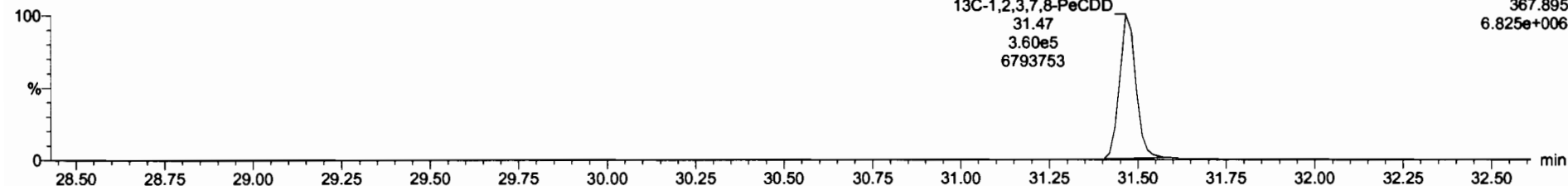


13C-1,2,3,7,8-PeCDD

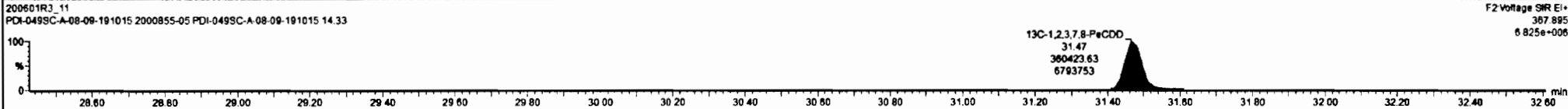
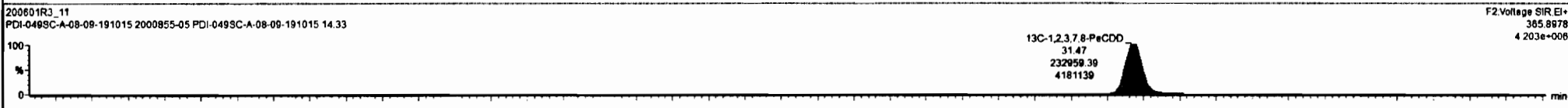
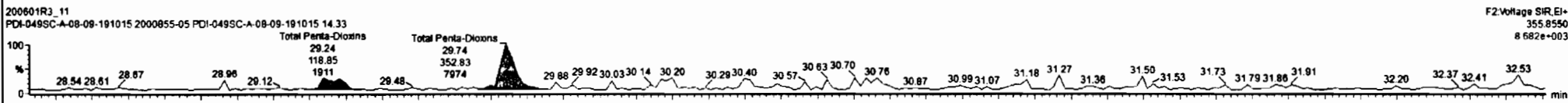
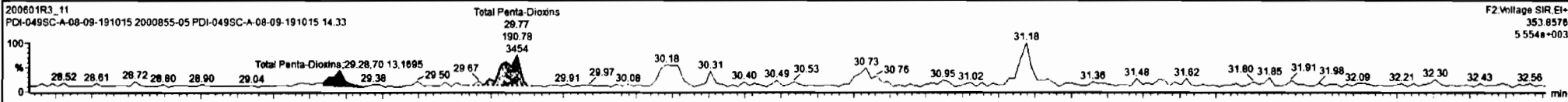
200601R3_11



200601R3_11



13C-1,2,3,4,6,8-HxCDF	7.72e5	0.51	NO	1.0080	18.008	34.37	1.900	200	100	0.481	
Total Tetra-Dioxins				0.8883	10.008			0.588		0.0525	0.588
Total Hexa-Dioxins				0.8823	10.008			0.830		0.118	0.830
Total Hepta-Dioxins				0.8630	10.008			1.58		0.177	1.58
Total Tetra-Furans				0.7510	10.008			0.155		0.0200	0.155
1st Func. Penta-Furans				0.8825	10.008					0.09822	
Total Penta-Furans				0.8825	10.008					0.0190	
Total Hexa-Furans				0.9341	10.008					0.0243	
Total Hepta-Furans				0.8734	10.008					0.0441	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



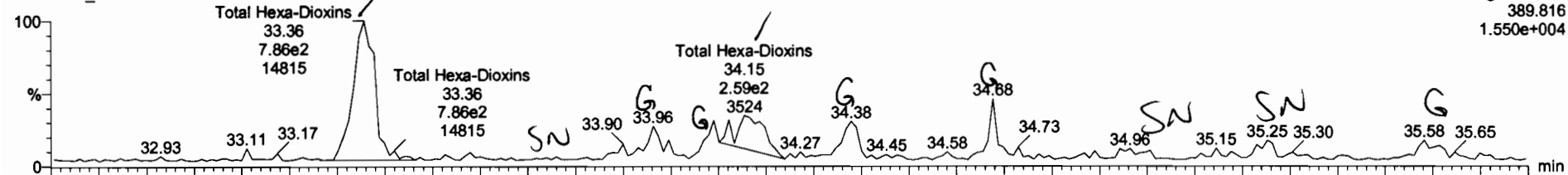
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

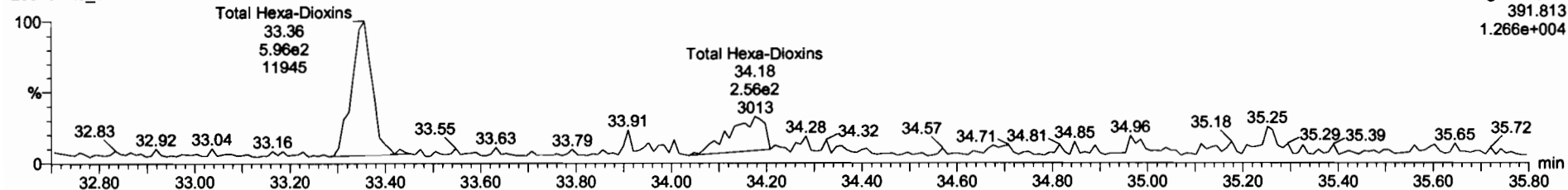
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1,2,3,4,7,8-HxCDD

200601R3_11

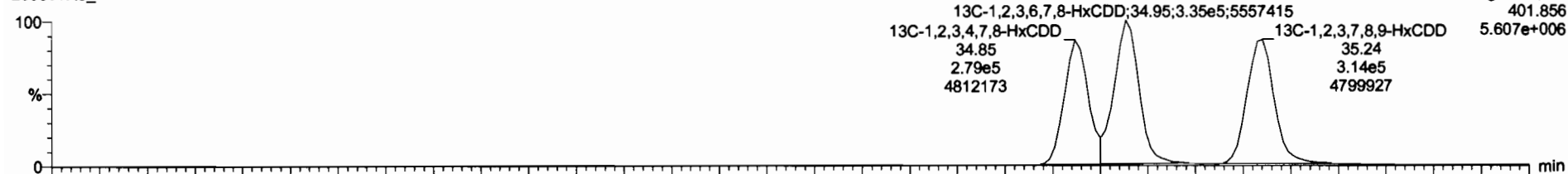


200601R3_11

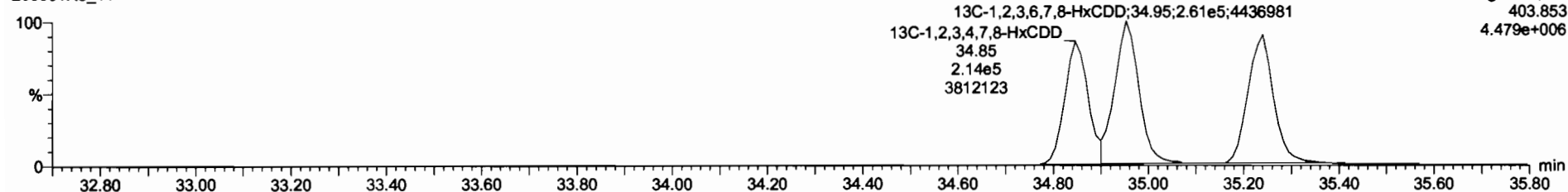


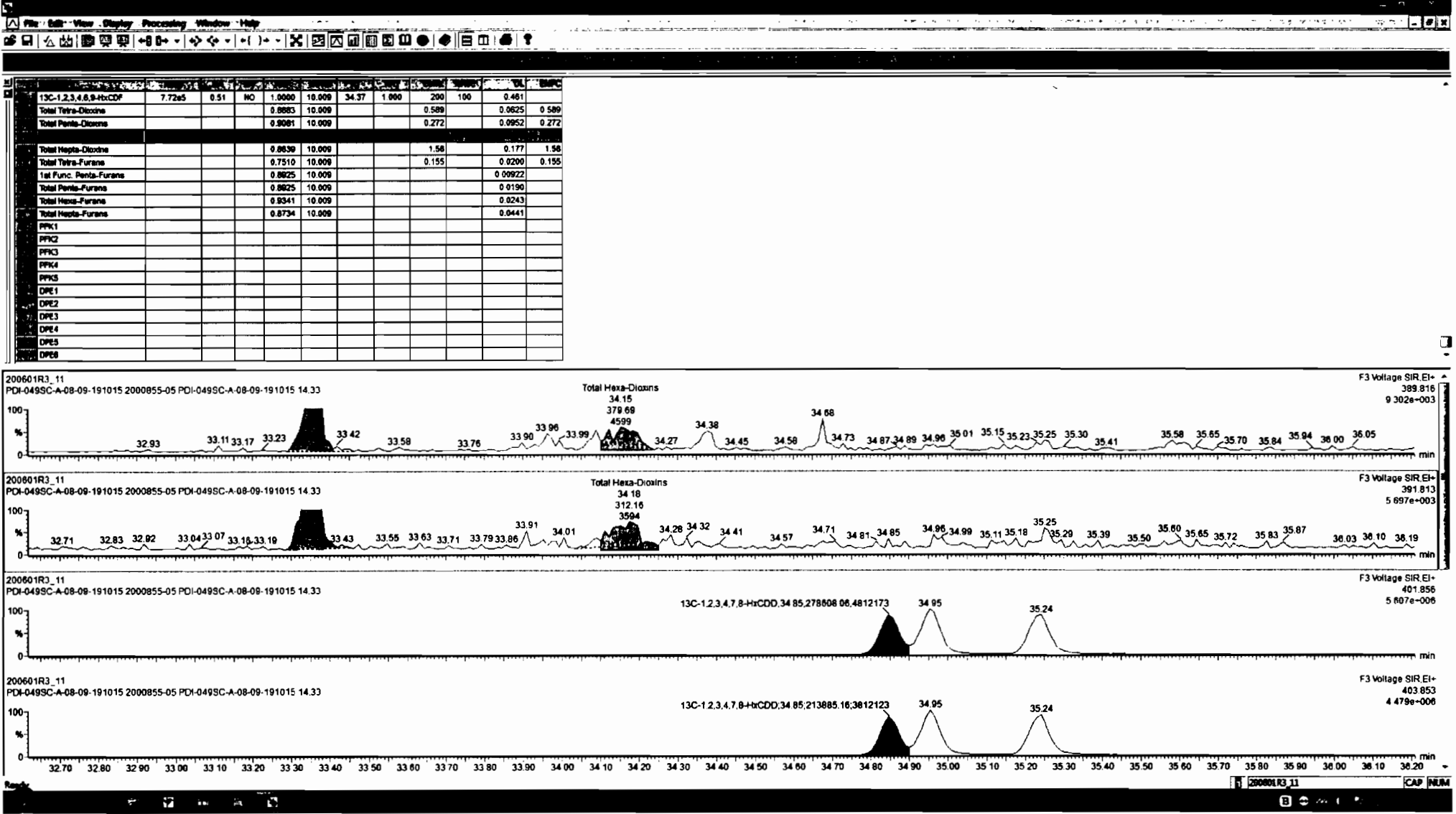
13C-1,2,3,4,7,8-HxCDD

200601R3_11



200601R3_11





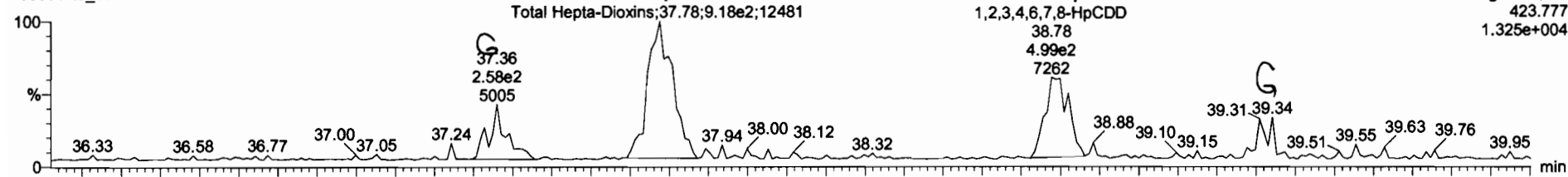
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

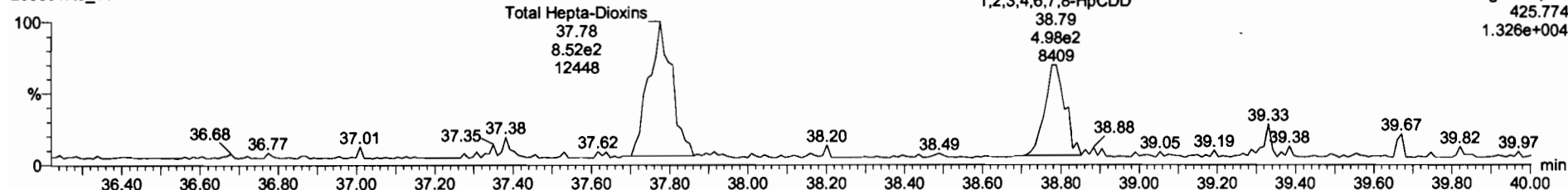
Name: 200601R3_11, Date: 01-Jun-2020, Time: 22:47:34, ID: 2000855-05 PDI-049SC-A-08-09-191015 14.33, Description: PDI-049SC-A-08-09-191015

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

200601R3_11

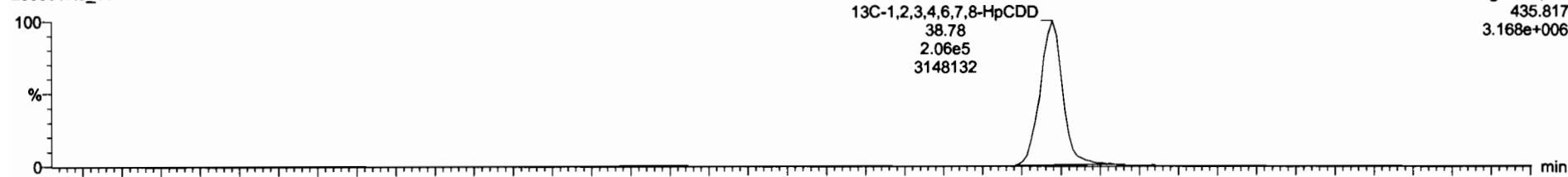


200601R3_11

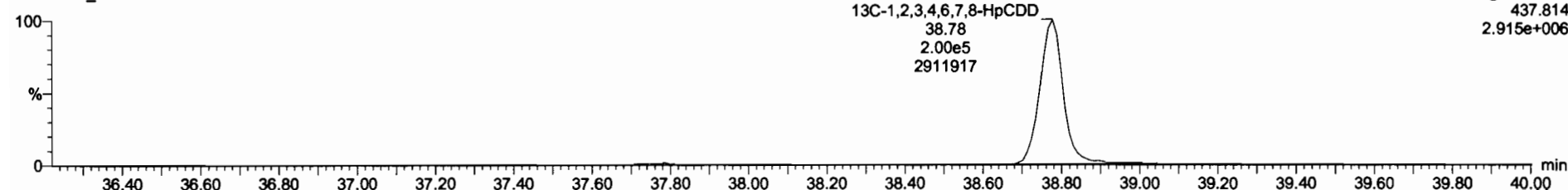


¹³C-1,2,3,4,6,7,8-HpCDD

200601R3_11



200601R3_11



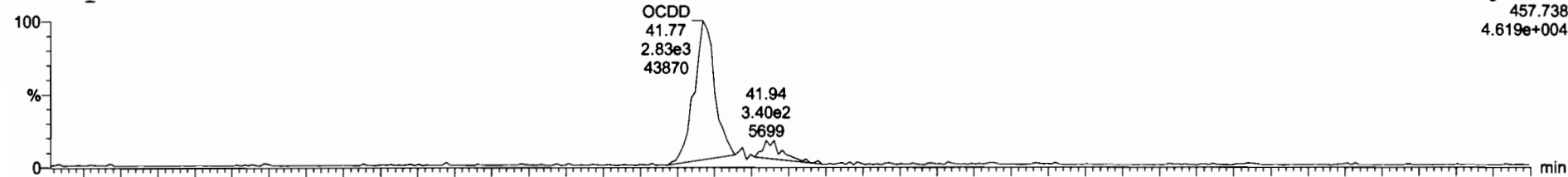
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

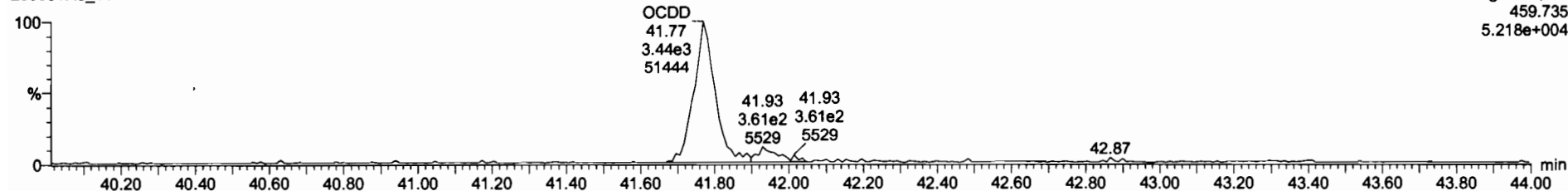
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OCDD

200601R3_11

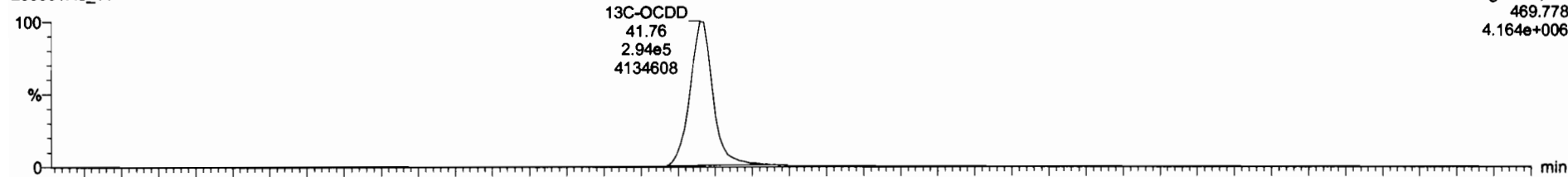


200601R3_11

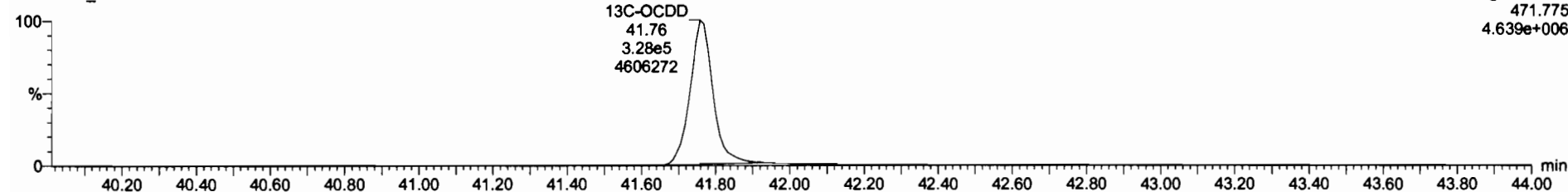


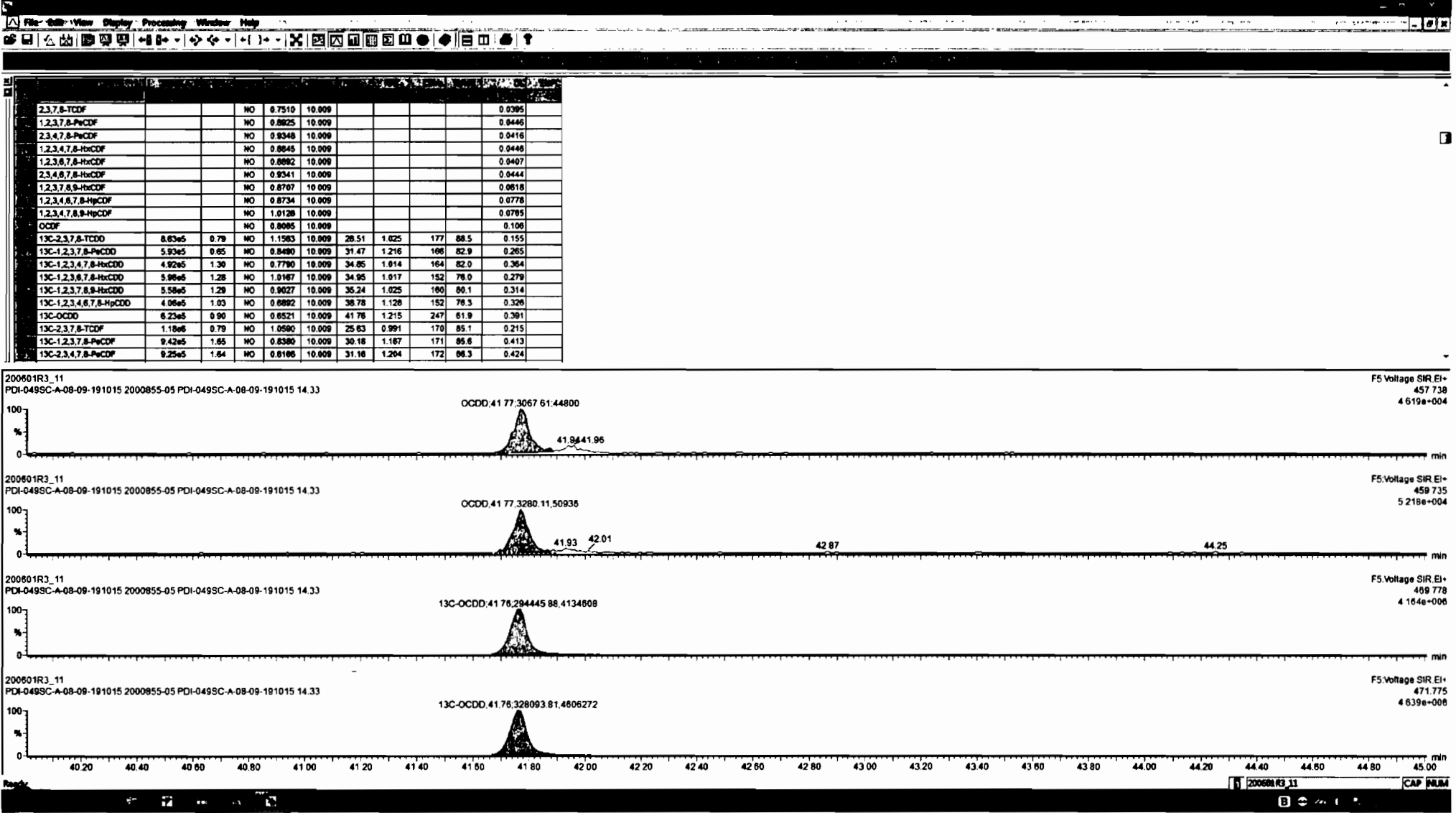
13C-OCDD

200601R3_11



200601R3_11





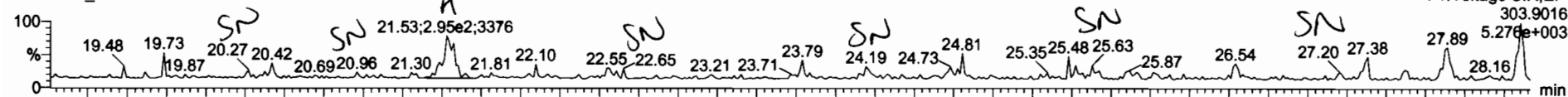
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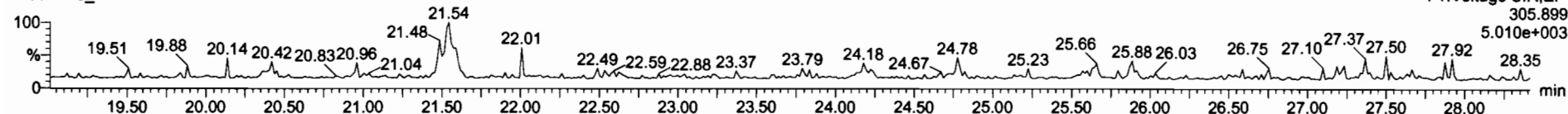
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2,3,7,8-TCDF

200601R3_11

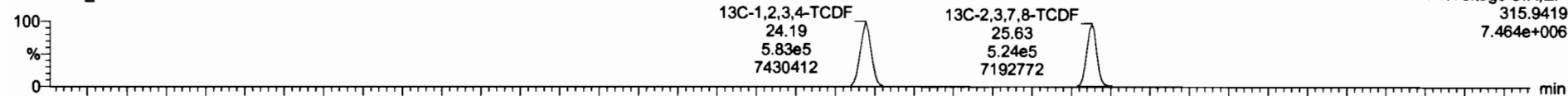


200601R3_11

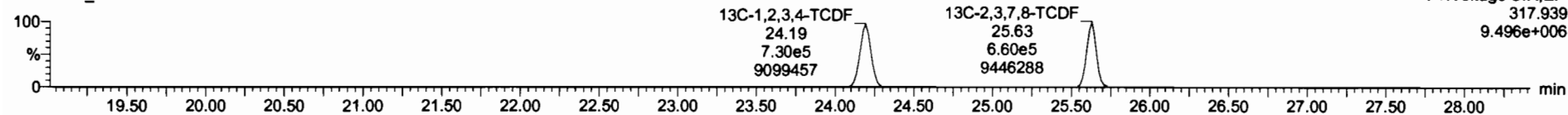


13C-2,3,7,8-TCDF

200601R3_11

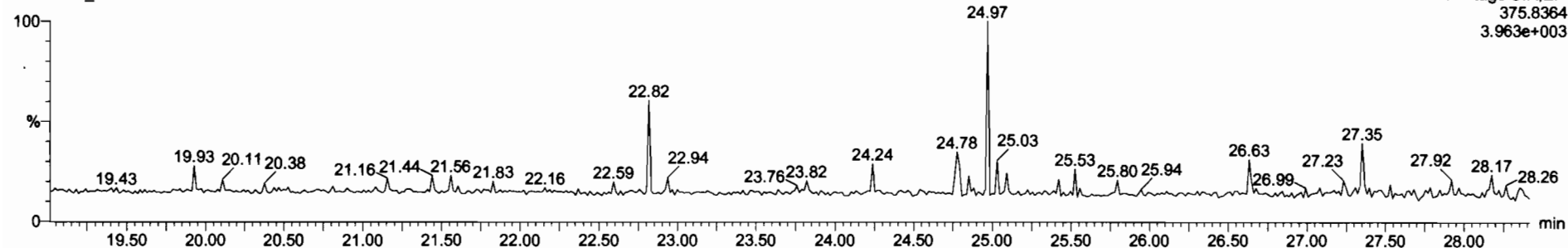


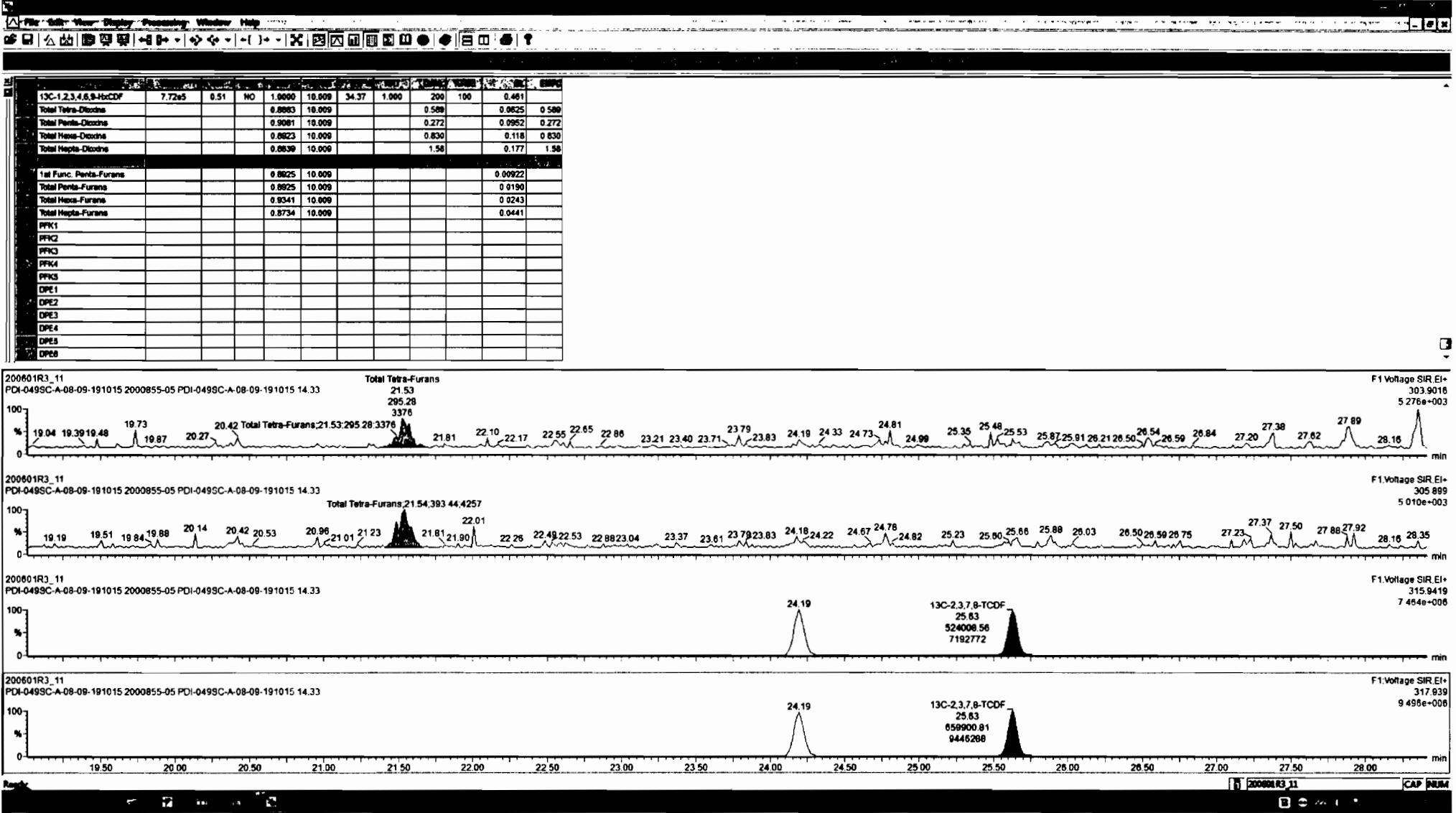
200601R3_11



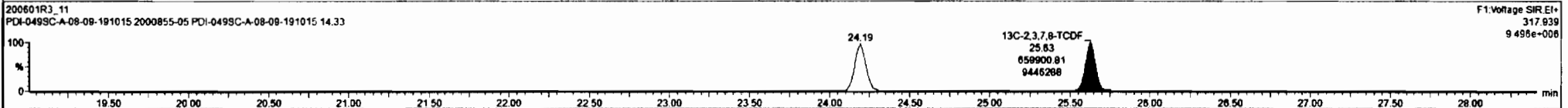
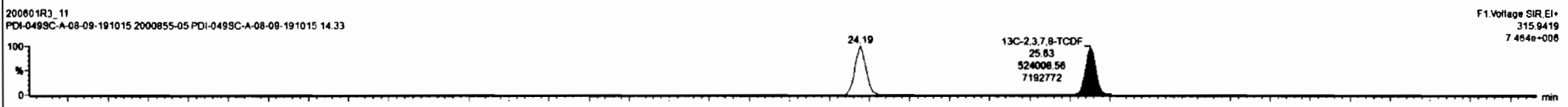
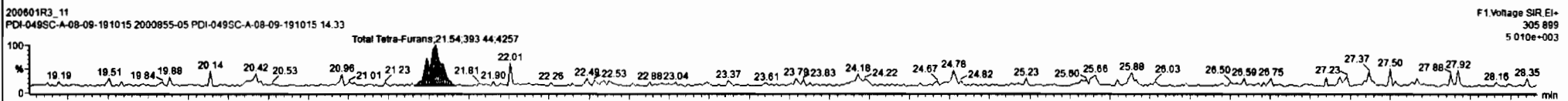
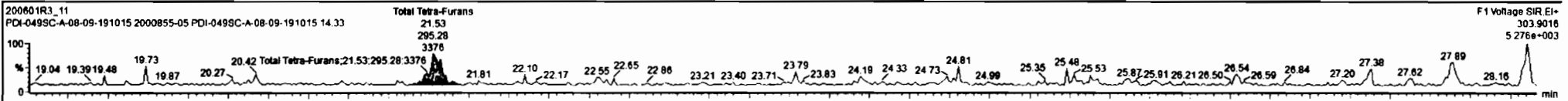
DPE1

200601R3_11





13C-1,2,3,4,6,8-HxCDF	7.72e5	0.51	HO	1.0000	10.000	54.37	1.000	200	100	0.461
Total Tetra-Dioxins				0.8983	10.000			0.509		0.0825
Total Penta-Dioxins				0.9081	10.000			0.272		0.9952
Total Hexa-Dioxins				0.8623	10.000			0.830		0.118
Total Hepta-Dioxins				0.8630	10.000			1.58		0.177
1st Func. Penta-Furans				0.8825	10.000					0.00922
Total Penta-Furans				0.8825	10.000					0.0190
Total Hexa-Furans				0.9341	10.000					0.0243
Total Hepta-Furans				0.8734	10.000					0.0441
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



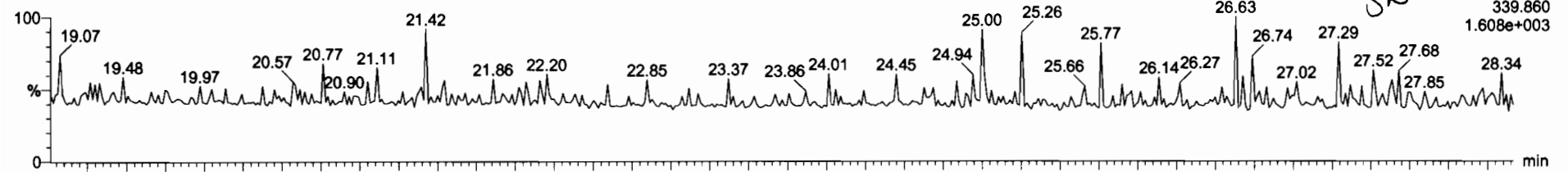
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_11, Date: 01-Jun-2020, Time: 22:47:34, ID: 2000855-05 PDI-049SC-A-08-09-191015 14.33, Description: PDI-049SC-A-08-09-191015

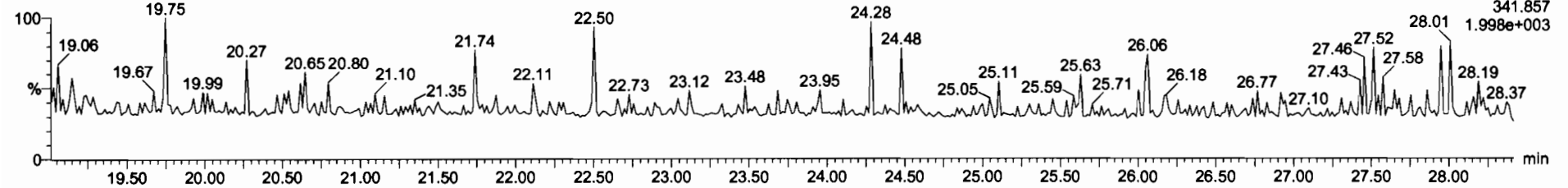
1st Func. Penta-Furans

200601R3_11



F1: Voltage SIR, EI+
339.860
1.608e+003

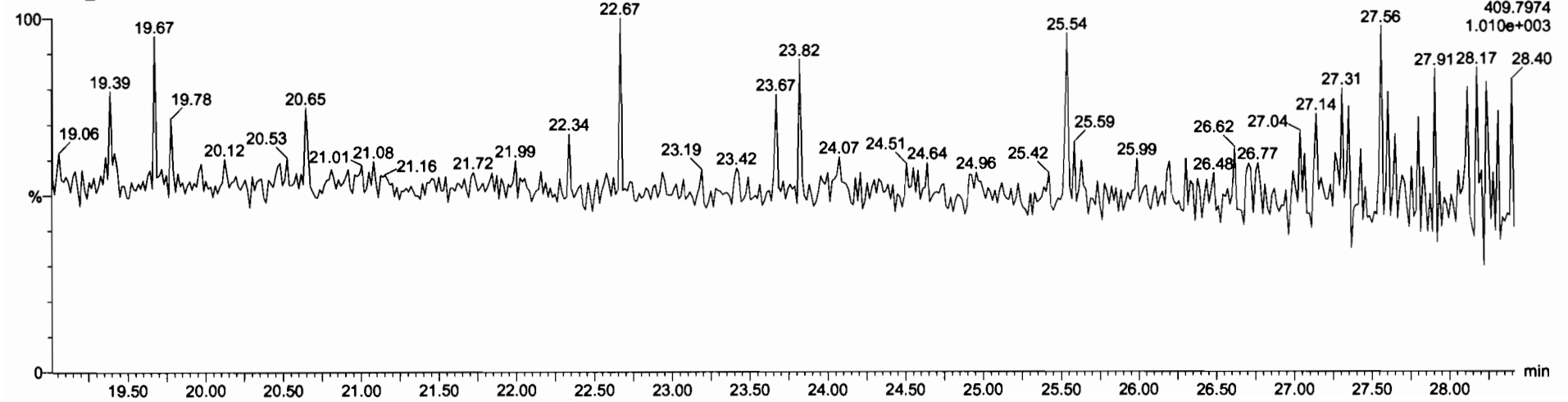
200601R3_11



F1: Voltage SIR, EI+
341.857
1.998e+003

DPE6

200601R3_11



F1: Voltage SIR, EI+
409.7974
1.010e+003

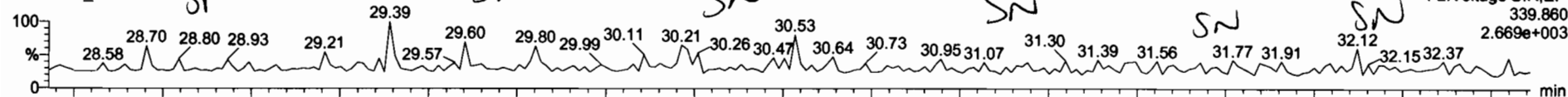
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
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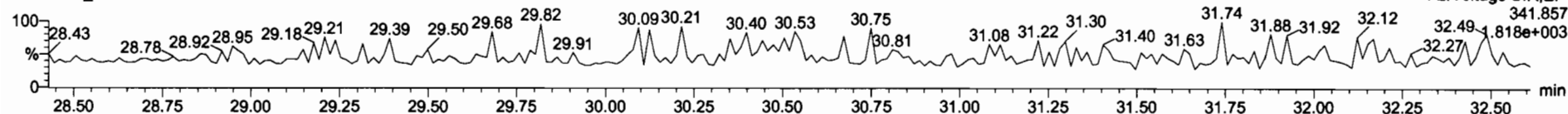
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1,2,3,7,8-PeCDF

200601R3_11

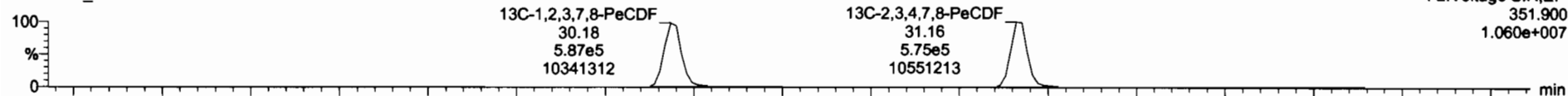


200601R3_11

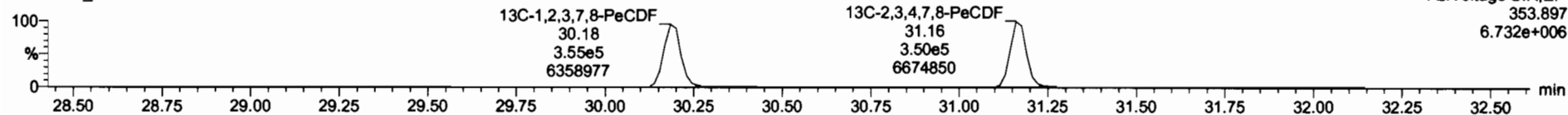


13C-1,2,3,7,8-PeCDF

200601R3_11

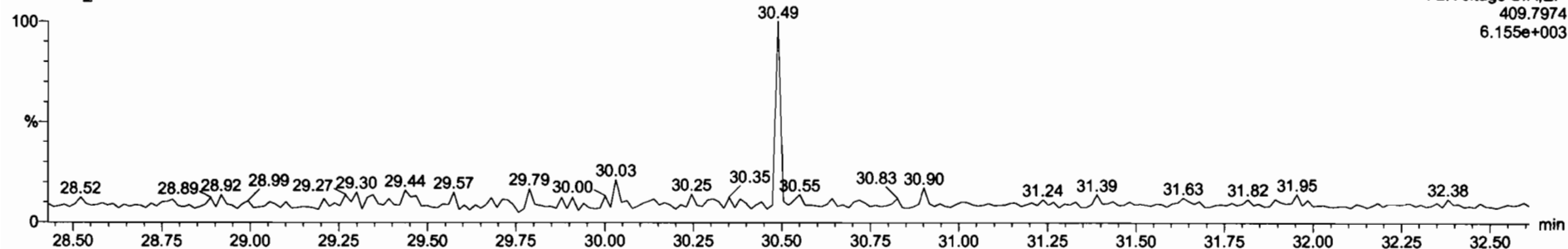


200601R3_11



DPE2

200601R3_11

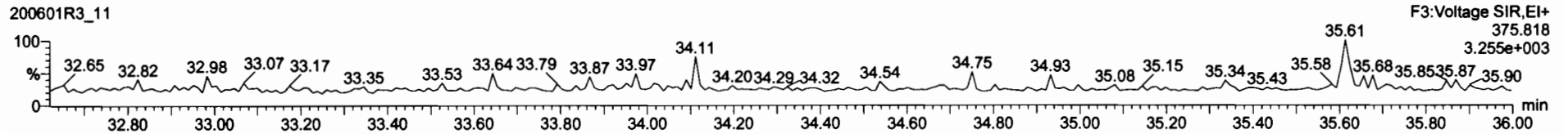
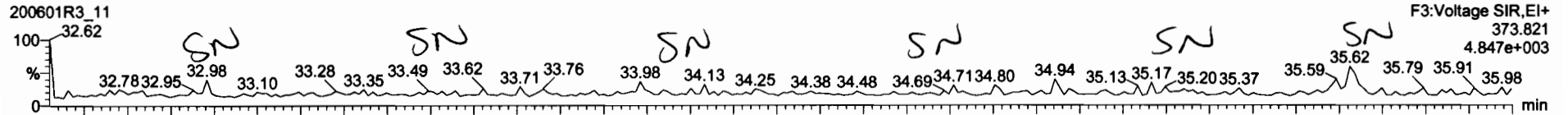


Dataset: Untitled

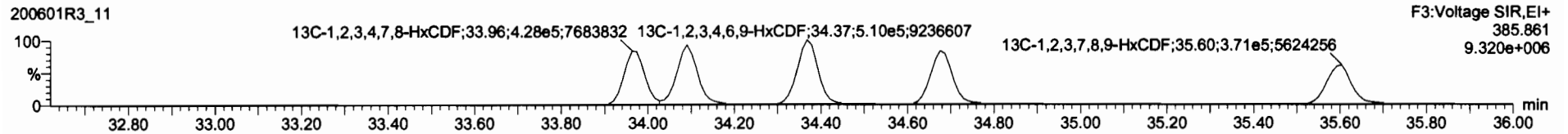
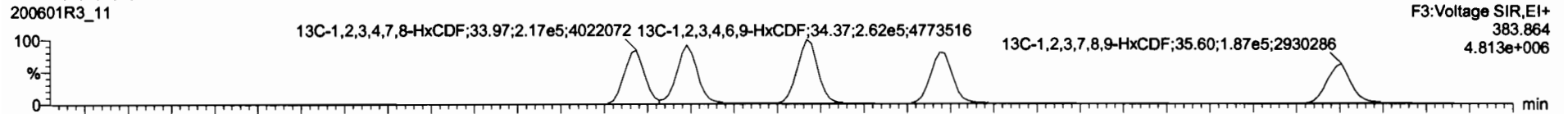
Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
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Name: 200601R3_11, Date: 01-Jun-2020, Time: 22:47:34, ID: 2000855-05 PDI-049SC-A-08-09-191015 14.33, Description: PDI-049SC-A-08-09-191015

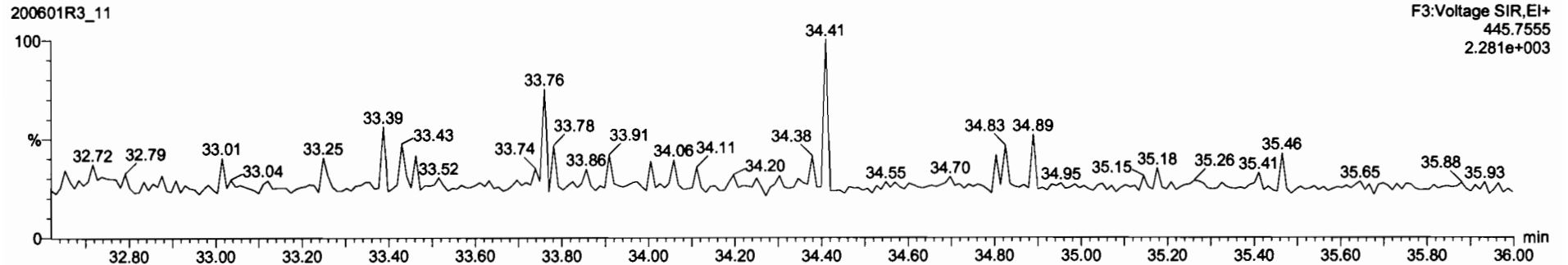
1,2,3,4,7,8-HxCDF



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



DPE3



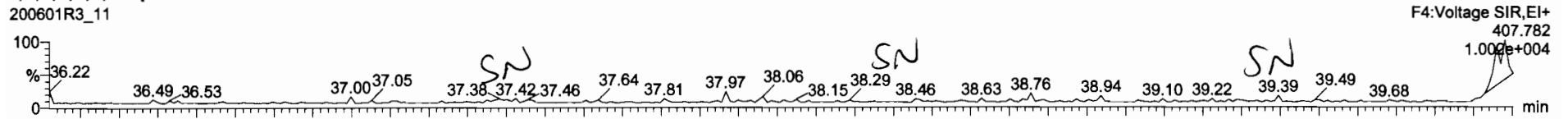
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

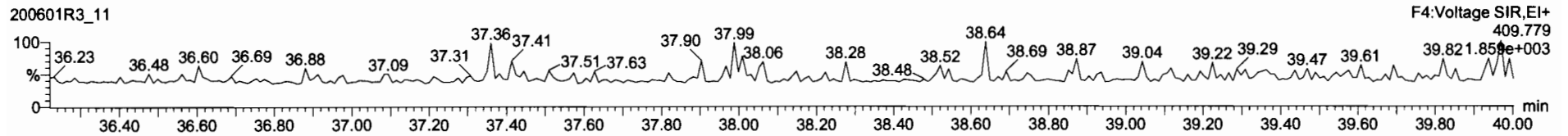
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1,2,3,4,6,7,8-HpCDF

200601R3_11

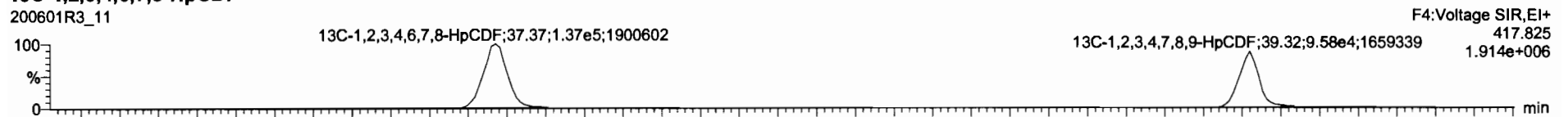


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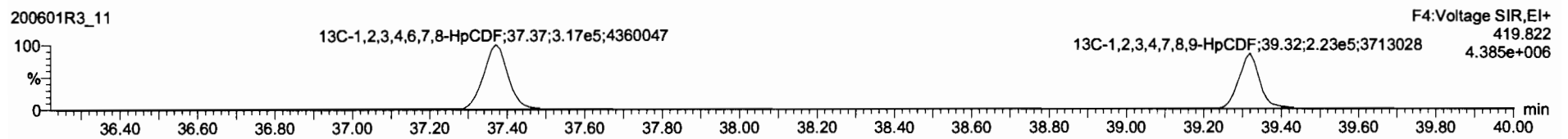


13C-1,2,3,4,6,7,8-HpCDF

200601R3_11

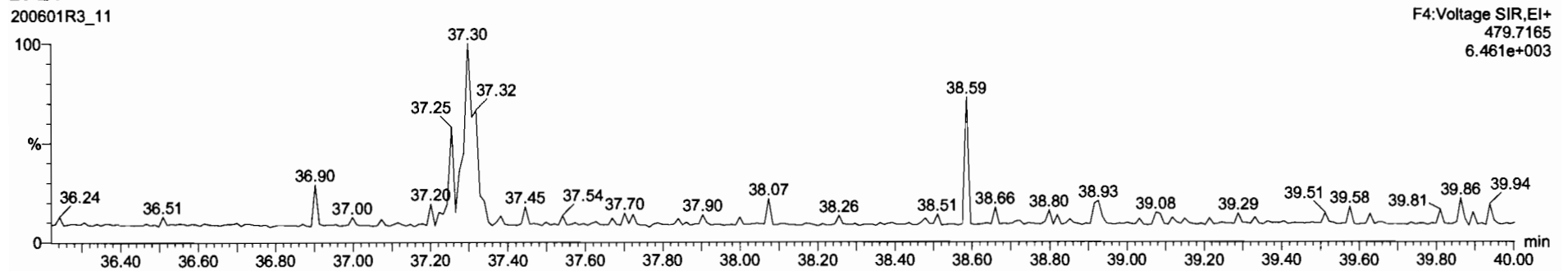


200601R3_11



DPE4

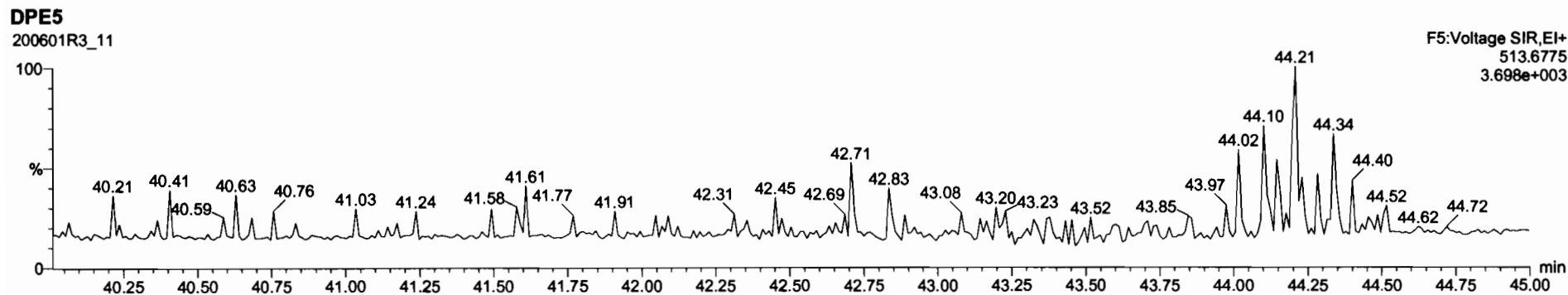
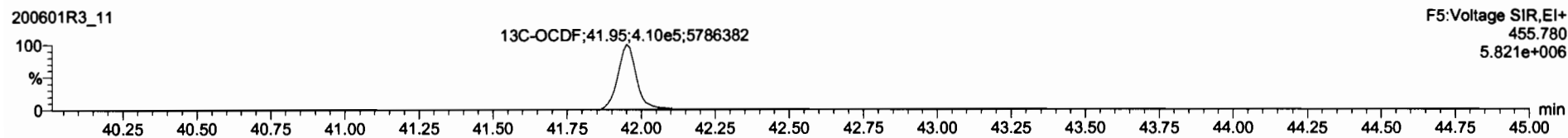
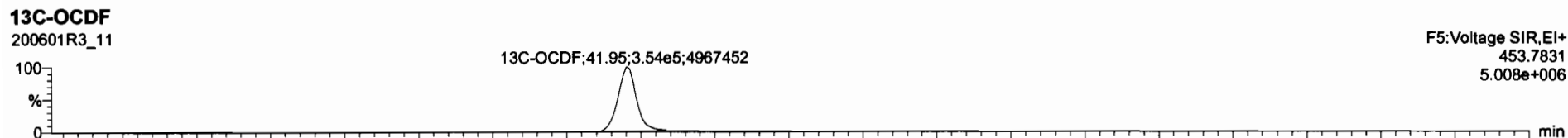
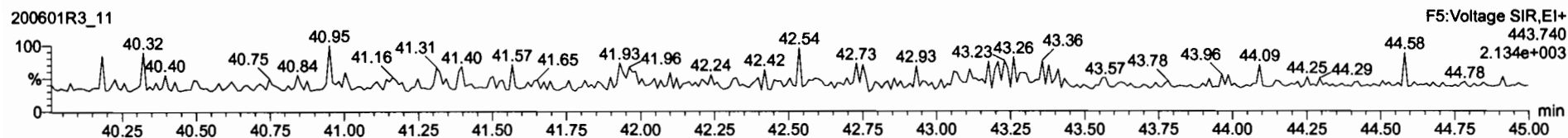
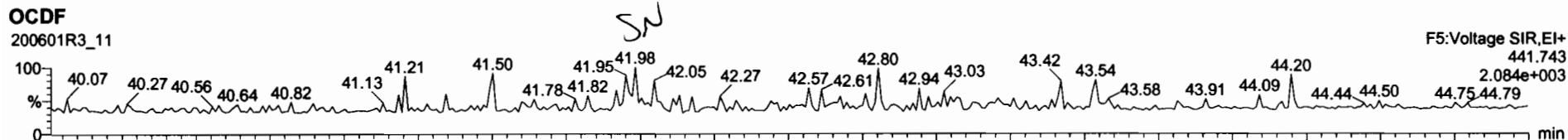
200601R3_11



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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

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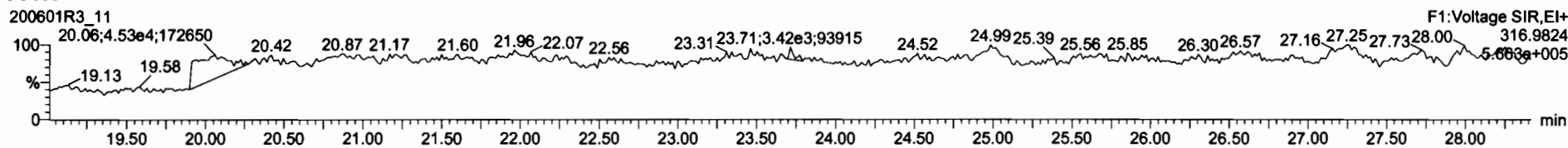
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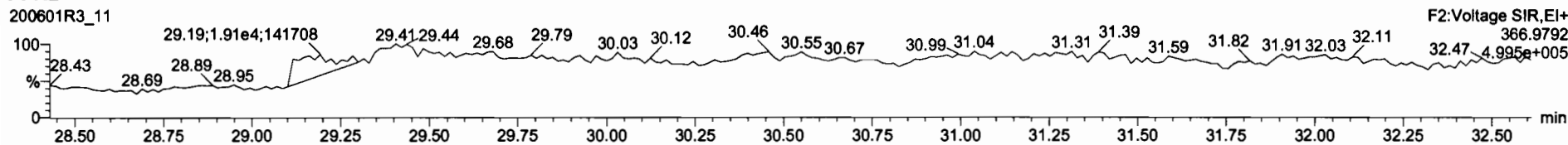
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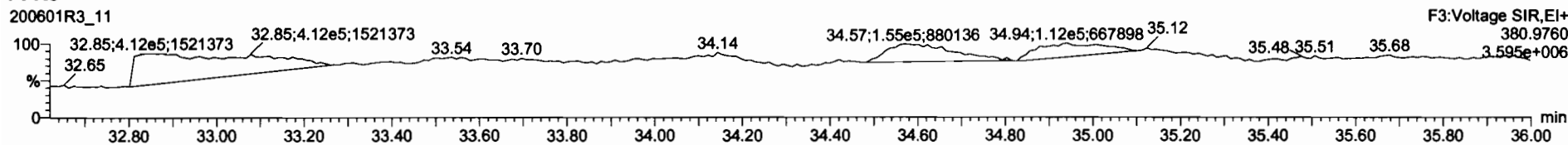
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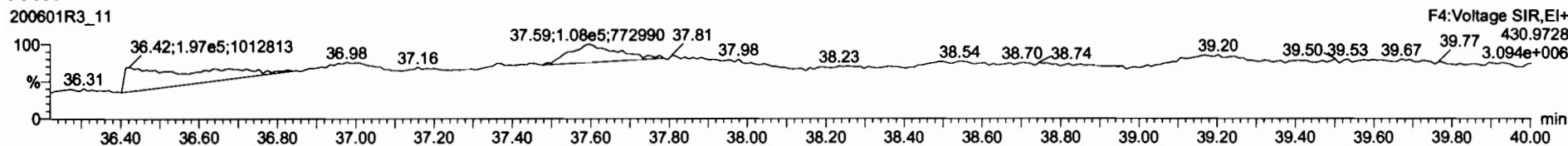
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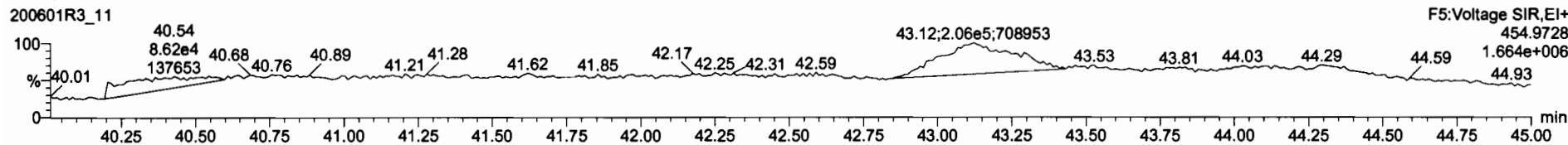
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200601R3\200601R3-12.qld

Last Altered: Tuesday, June 02, 2020 11:34:33 AM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 11:36:05 AM Pacific Daylight Time

GRB 06/02/2020

CT 06/05/2020

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: 200601R3_12, Date: 01-Jun-2020, Time: 23:33:45, ID: 2000855-06 PDI-049SC-A-09-10-191015 12.72, Description: PDI-049SC-A-09-10-191015

	PA	W	RRP	W	RRF	W	RRF	W	RRF	W	RRF		
1	2,3,7,8-TCDD		NO	0.888	10.010	26.546	1.001				0.0973		
2	1,2,3,7,8-PeCDD		NO	0.908	10.010	31.503	1.001				0.115		
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.010	34.857	1.000				0.173		
4	1,2,3,6,7,8-HxCDD		NO	0.892	10.010	34.953	1.000				0.167		
5	1,2,3,7,8,9-HxCDD		NO	0.887	10.010	35.252	1.000				0.168		
6	1,2,3,4,6,7,8-HpCDD	3.42e3	1.01	NO	0.864	10.010	38.789	38.79	1.000	1.000	2.3241	0.151	2.32
7	OCDD	8.32e4	0.88	NO	0.914	10.010	41.749	41.77	1.000	1.001	61.807	0.244	61.8
8	2,3,7,8-TCDF		NO	0.751	10.010	25.657	1.001					0.0645	
9	1,2,3,7,8-PeCDF		NO	0.893	10.010	30.205	1.001					0.0650	
10	2,3,4,7,8-PeCDF		NO	0.935	10.010	31.207	1.001					0.0670	
11	1,2,3,4,7,8-HxCDF		NO	0.884	10.010	33.973	1.000					0.0713	
12	1,2,3,6,7,8-HxCDF		NO	0.889	10.010	34.101	1.000					0.0694	
13	2,3,4,6,7,8-HxCDF		NO	0.934	10.010	34.711	1.001					0.0645	
14	1,2,3,7,8,9-HxCDF		NO	0.871	10.010	35.603	1.000					0.0999	
15	1,2,3,4,6,7,8-HpCDF		NO	0.873	10.010	37.408	1.001					0.0730	
16	1,2,3,4,7,8,9-HpCDF		NO	1.01	10.010	39.310	1.000					0.0792	
17	OCDF		NO	0.806	10.010	41.951	1.000					0.102	
18	13C-2,3,7,8-TCDD	4.83e5	0.78	NO	1.16	10.010	26.553	26.51	1.026	1.025	106.75	53.4	0.171
19	13C-1,2,3,7,8-PeCDD	4.00e5	0.63	NO	0.849	10.010	31.748	31.48	1.227	1.217	120.37	60.2	0.228
20	13C-1,2,3,4,7,8-HxCDD	3.53e5	1.27	NO	0.779	10.010	34.853	34.85	1.014	1.014	126.44	63.3	0.358
21	13C-1,2,3,6,7,8-HxCDD	4.41e5	1.29	NO	1.02	10.010	34.966	34.95	1.017	1.017	120.97	60.5	0.275
22	13C-1,2,3,7,8,9-HxCDD	4.75e5	1.27	NO	0.903	10.010	35.238	35.24	1.025	1.025	146.84	73.5	0.309
23	13C-1,2,3,4,6,7,8-HpCDD	3.40e5	1.05	NO	0.689	10.010	38.764	38.78	1.128	1.128	137.69	68.9	0.295
24	13C-OCDD	5.89e5	0.95	NO	0.652	10.010	41.788	41.75	1.216	1.215	251.62	63.0	0.357
25	13C-2,3,7,8-TCDF	6.43e5	0.77	NO	1.06	10.010	25.593	25.63	0.989	0.991	99.589	49.8	0.214
26	13C-1,2,3,7,8-PeCDF	5.96e5	1.62	NO	0.838	10.010	30.128	30.18	1.165	1.167	116.69	58.4	0.361
27	13C-2,3,4,7,8-PeCDF	5.76e5	1.64	NO	0.817	10.010	31.083	31.18	1.202	1.205	115.72	57.9	0.370
28	13C-1,2,3,4,7,8-HxCDF	4.58e5	0.51	NO	1.01	10.010	33.983	33.97	0.989	0.989	126.59	63.4	0.340
29	13C-1,2,3,6,7,8-HxCDF	5.18e5	0.51	NO	1.17	10.010	34.107	34.09	0.992	0.992	123.74	61.9	0.293
30	13C-2,3,4,6,7,8-HxCDF	5.13e5	0.50	NO	1.02	10.010	34.681	34.68	1.009	1.009	139.91	70.0	0.335
31	13C-1,2,3,7,8,9-HxCDF	4.20e5	0.51	NO	0.860	10.010	35.581	35.60	1.035	1.036	136.32	68.2	0.398

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-12.qld

Last Altered: Tuesday, June 02, 2020 11:34:33 AM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 11:36:05 AM Pacific Daylight Time

Name: 200601R3_12, Date: 01-Jun-2020, Time: 23:33:45, ID: 2000855-06 PDI-049SC-A-09-10-191015 12.72, Description: PDI-049SC-A-09-10-191015

	RA	hw	RRF	val	Pre	RRF								
32	13C-1,2,3,4,6,7,8-HpCDF	3.88e5	0.43	NO	0.774	10.010	37.331	37.37	1.086	1.087	139.55	69.8	0.257	
33	13C-1,2,3,4,7,8,9-HpCDF	2.66e5	0.42	NO	0.521	10.010	39.362	39.31	1.145	1.144	142.54	71.3	0.383	
34	13C-OCDF	7.20e5	0.88	NO	0.746	10.010	41.960	41.95	1.221	1.221	269.01	67.3	0.339	
35	37Cl-2,3,7,8-TCDD	1.96e5			1.04	10.010	26.584	26.54	1.028	1.026	48.451	60.6	0.0813	
36	13C-1,2,3,4-TCDD	7.81e5	0.80	NO	1.00	10.010	25.890	25.87	1.000	1.000	199.81	100	0.197	
37	13C-1,2,3,4-TCDF	1.22e6	0.79	NO	1.00	10.010	24.360	24.19	1.000	1.000	199.81	100	0.226	
38	13C-1,2,3,4,6,9-HxCDF	7.17e5	0.51	NO	1.00	10.010	34.420	34.37	1.000	1.000	199.81	100	0.342	
39	Total Tetra-Dioxins				0.888	10.010	24.620		0.000		0.50973		0.0973	0.645
40	Total Penta-Dioxins				0.908	10.010	29.960		0.000		0.41361		0.115	0.613
41	Total Hexa-Dioxins				0.892	10.010	33.635		0.000		2.0514		0.176	2.96
42	Total Hepta-Dioxins				0.864	10.010	37.640		0.000		6.7678		0.151	6.77
43	Total Tetra-Furans				0.751	10.010	23.610		0.000				0.0328	
44	1st Func. Penta-Furans				0.893	10.010	27.580		0.000				0.0128	
45	Total Penta-Furans				0.893	10.010	29.275		0.000				0.0359	
46	Total Hexa-Furans				0.934	10.010	33.555		0.000				0.0365	
47	Total Hepta-Furans				0.873	10.010	37.835		0.000				0.0429	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-12.qld

Last Altered: Tuesday, June 02, 2020 11:34:33 AM Pacific Daylight Time
 Printed: Tuesday, June 02, 2020 11:36:05 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: 200601R3_12, Date: 01-Jun-2020, Time: 23:33:45, ID: 2000855-06 PDI-049SC-A-09-10-191015 12.72, Description: PDI-049SC-A-09-10-191015

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Emp	Comp	EMPC	IOI
Total Tetra-Dioxins	24.34	7.333e3	7.639e3	4.914e2	6.025e2	0.82	NO	1.094e3	0.50973	0.50973	0.0973
Total Tetra-Dioxins	25.83	3.004e3	2.810e3	1.597e2	1.644e2	0.97	YES	0.000e0	0.00000	0.13560	0.0973

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Emp	Comp	EMPC	IOI
Total Penta-Dioxins	29.27	2.562e3	4.062e3	1.614e2	2.221e2	0.73	YES	0.000e0	0.00000	0.19933	0.115
Total Penta-Dioxins	29.74	5.799e3	8.911e3	2.624e2	4.888e2	0.54	NO	7.512e2	0.41361	0.41361	0.115

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Emp	Comp	EMPC	IOI
Total Hexa-Dioxins	33.36	3.883e4	3.831e4	2.135e3	1.743e3	1.22	NO	3.878e3	2.0514	2.0514	0.176
Total Hexa-Dioxins	34.15	1.347e4	1.253e4	9.612e2	7.474e2	1.29	NO	0.000e0	0.00000	0.90384	0.176

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Emp	Comp	EMPC	IOI
Total Hepta-Dioxins	37.78	5.526e4	4.000e4	3.267e3	3.273e3	1.00	NO	6.540e3	4.4437	4.4437	0.151
1,2,3,4,6,7,8-HpCDD	38.79	2.793e4	2.542e4	1.719e3	1.702e3	1.01	NO	3.421e3	2.3241	2.3241	0.151

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Emp	Comp	EMPC	IOI

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Flags	Emp	Comp	EMPC	IOI

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-12.qld

Last Altered: Tuesday, June 02, 2020 11:34:33 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 11:36:05 AM Pacific Daylight Time

Name: 200601R3_12, Date: 01-Jun-2020, Time: 23:33:45, ID: 2000855-06 PDI-049SC-A-09-10-191015 12.72, Description: PDI-049SC-A-09-10-191015

Penta-Furans

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	DB	Resp	Code	EMPO	DB
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Hexa-Furans

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	DB	Resp	Code	EMPO	DB
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Hepta-Furans

Peak	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	DB	Resp	Code	EMPO	DB
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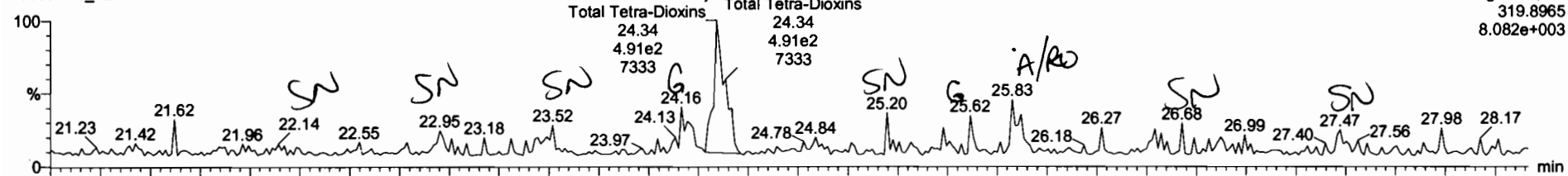
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

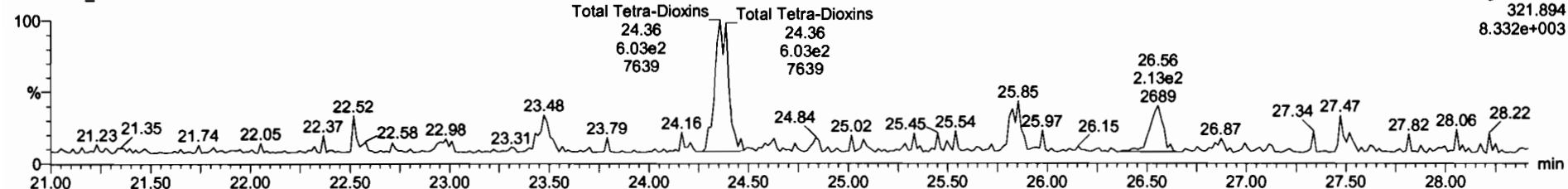
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2,3,7,8-TCDD

200601R3_12

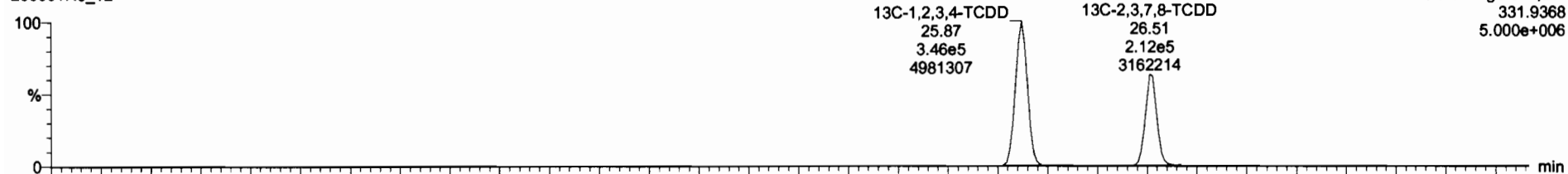


200601R3_12

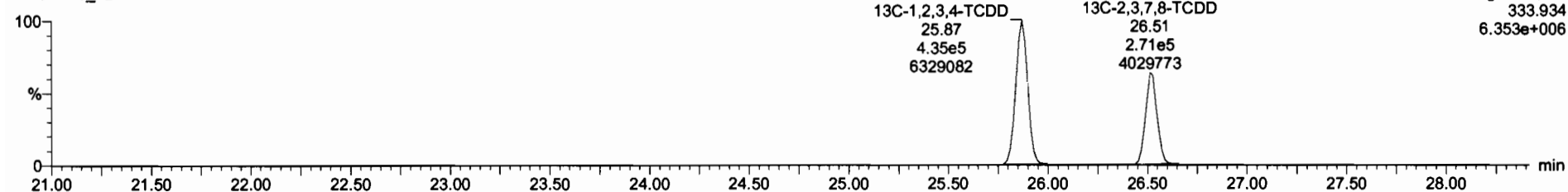


13C-2,3,7,8-TCDD

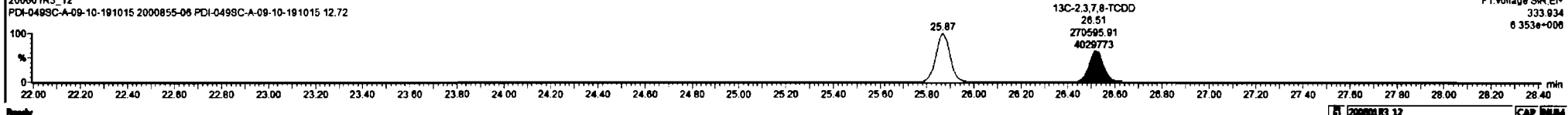
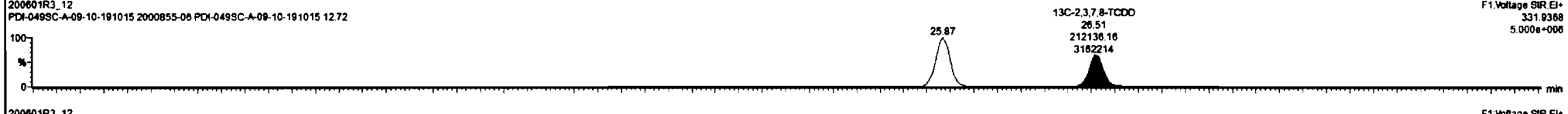
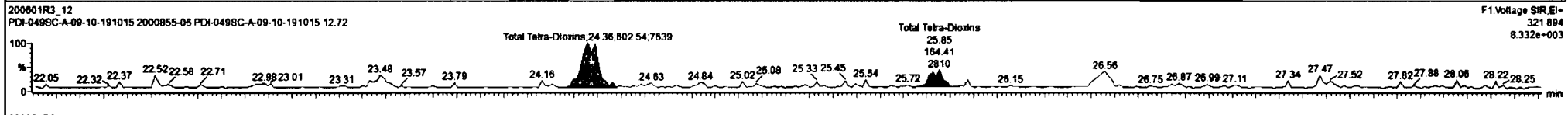
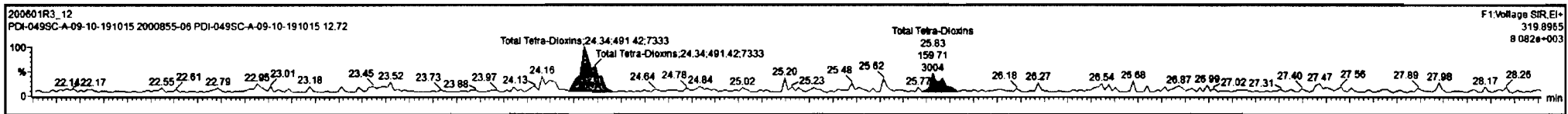
200601R3_12



200601R3_12



13C-1,2,3,4,6,8-HxCDF	7.17e5	0.51	HO	1.0000	10.010	34.37	1.000	200	100	0.342
Total Penta-Dioxins				0.9081	10.010			0.414		0.115 0.613
Total Hexa-Dioxins				0.0823	10.010			2.05		0.176 2.96
Total Hepta-Dioxins				0.0639	10.010			0.77		0.151 6.77
Total Tetra-Furans				0.7510	10.010					0.0328
1st Func. Penta-Furans				0.0825	10.010					0.0128
Total Penta-Furans				0.0825	10.010					0.0359
Total Hexa-Furans				0.9341	10.010					0.0365
Total Hepta-Furans				0.8734	10.010					0.0429
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



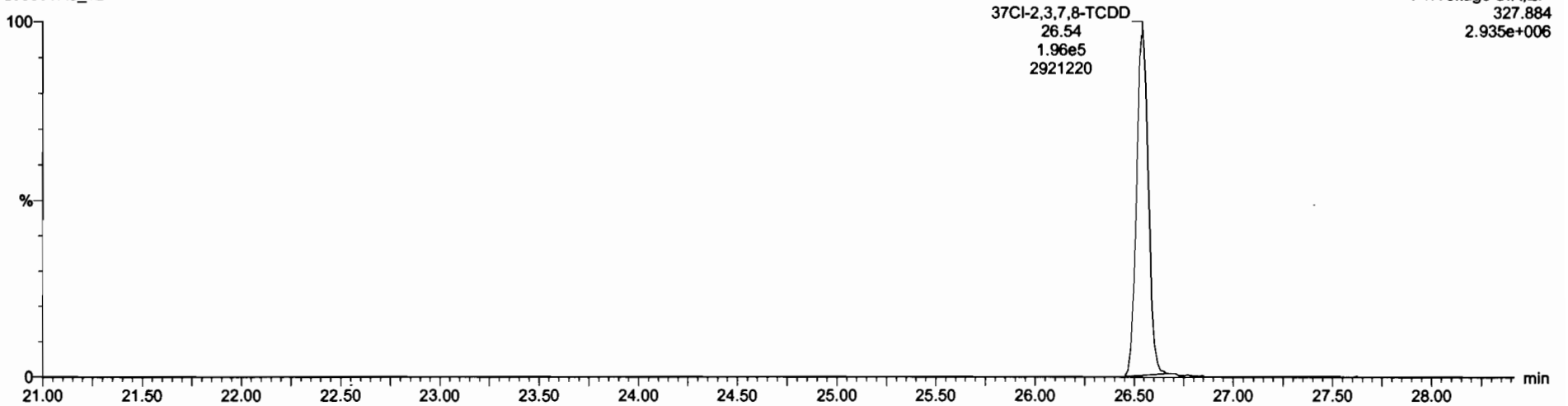
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_12, Date: 01-Jun-2020, Time: 23:33:45, ID: 2000855-06 PDI-049SC-A-09-10-191015 12.72, Description: PDI-049SC-A-09-10-191015

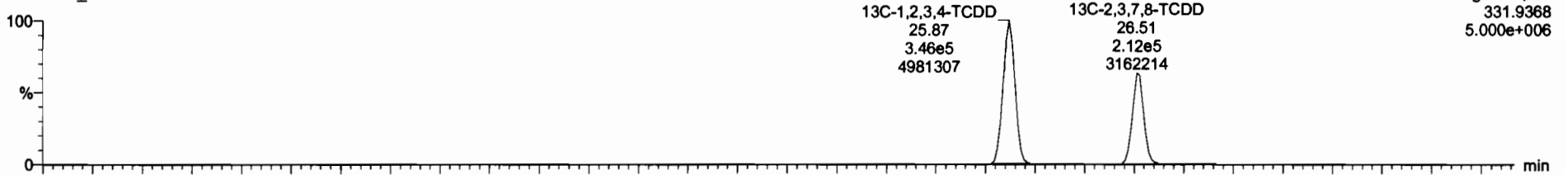
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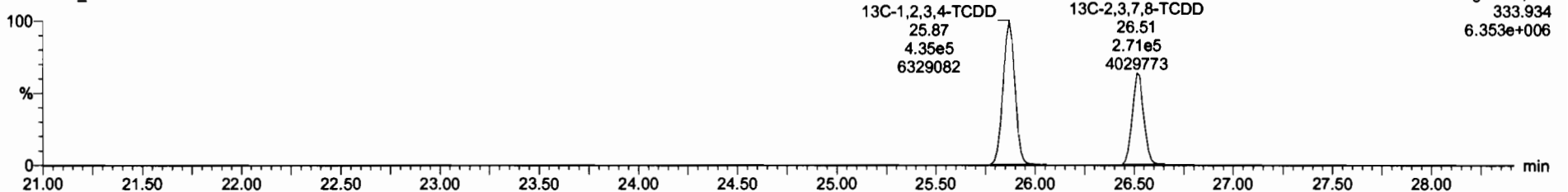


13C-1,2,3,4-TCDD

200601R3_12



200601R3_12



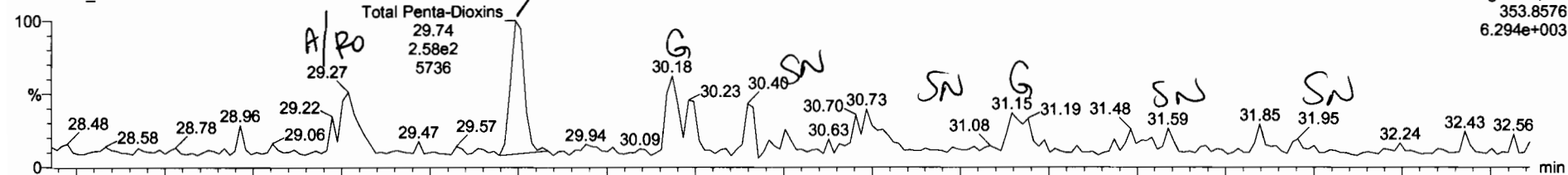
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

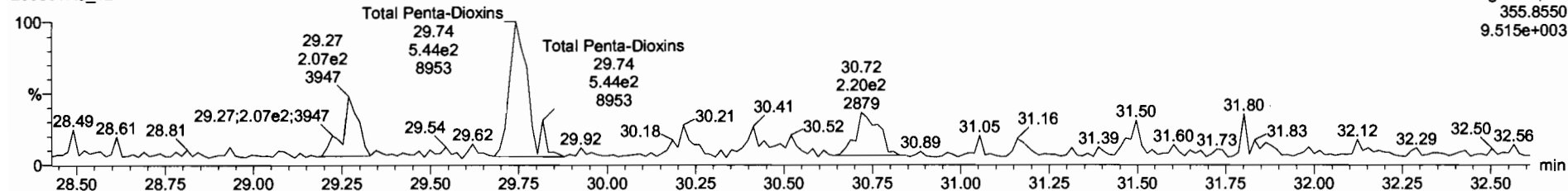
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1,2,3,7,8-PeCDD

200601R3_12

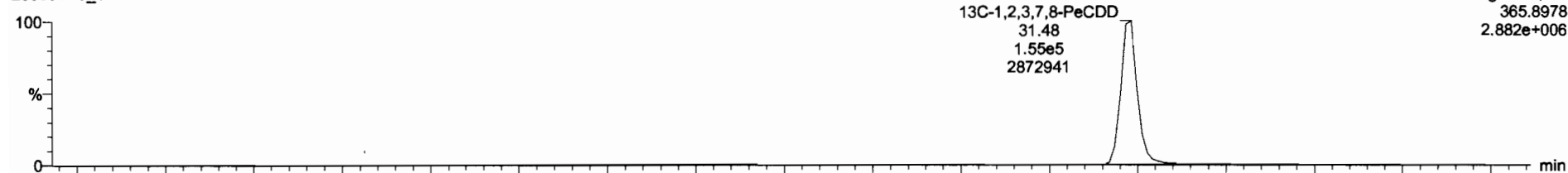


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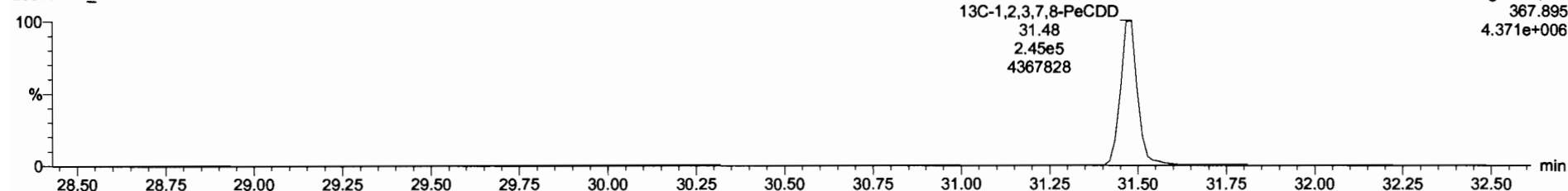


13C-1,2,3,7,8-PeCDD

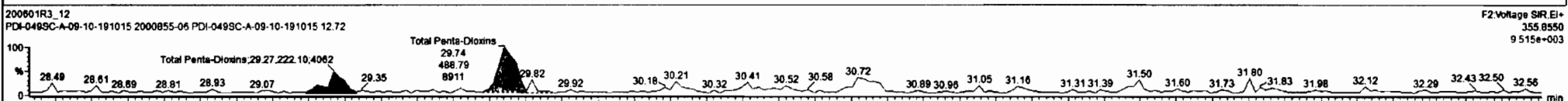
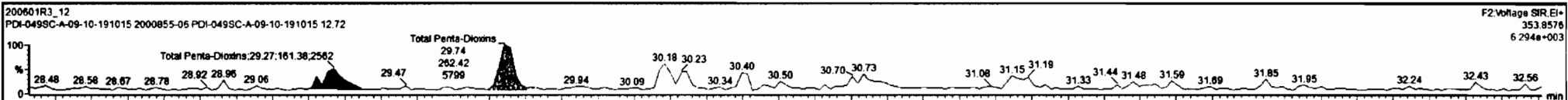
200601R3_12



200601R3_12



13C-1,2,3,4,6,8-hxCDF	7.17e5	0.51	NO	1.0080	10.010	34.37	1.000	200	100	0.342	
Total Tetra-Dioxins				0.0083	10.010			0.510		0.0973	0.645
Total Hexa-Dioxins				0.0023	10.010			2.05		0.176	2.86
Total Hepta-Dioxins				0.0039	10.010			0.77		0.151	0.77
Total Tetra-Furans				0.7510	10.010					0.0328	
1st Func. Penta-Furans				0.0025	10.010					0.0128	
Total Penta-Furans				0.0025	10.010					0.0359	
Total Hexa-Furans				0.0341	10.010					0.0365	
Total Hepta-Furans				0.0734	10.010					0.0429	
PPK1											
PPK2											
PPK3											
PPK4											
PPK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



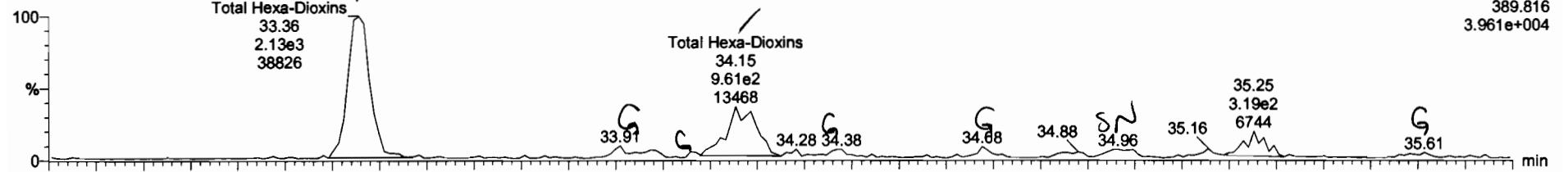
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

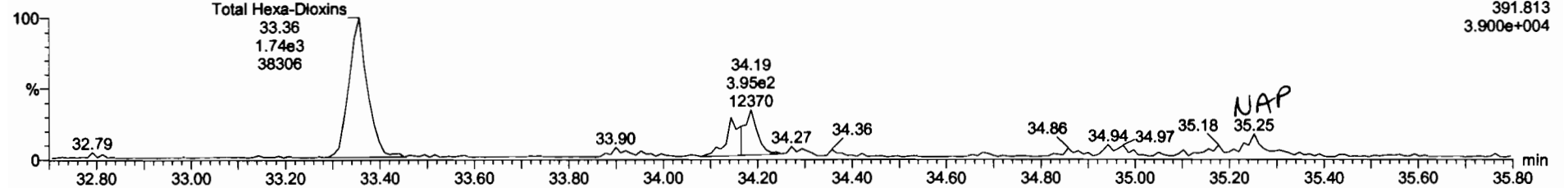
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1,2,3,4,7,8-HxCDD

200601R3_12

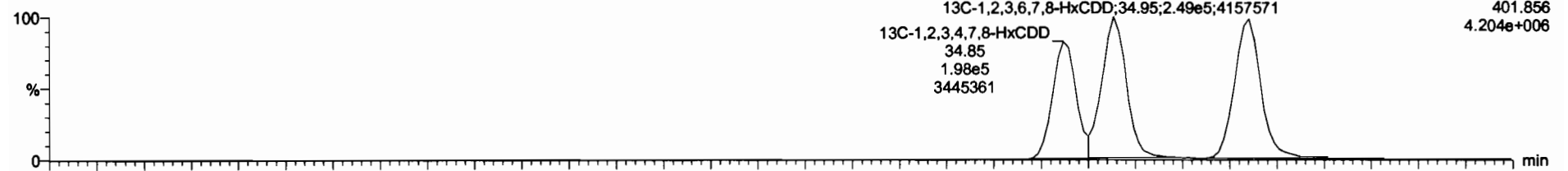


200601R3_12

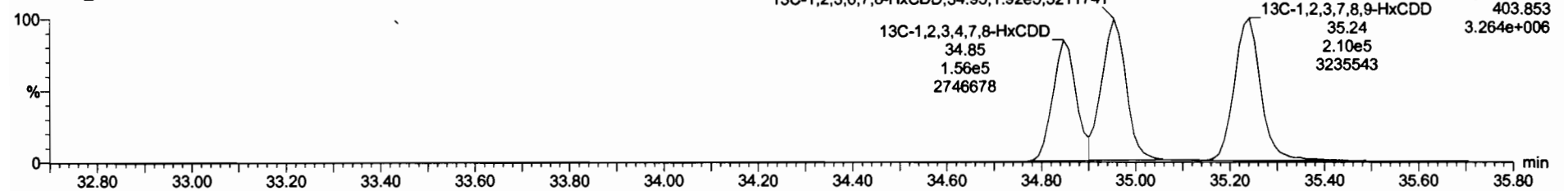


13C-1,2,3,4,7,8-HxCDD

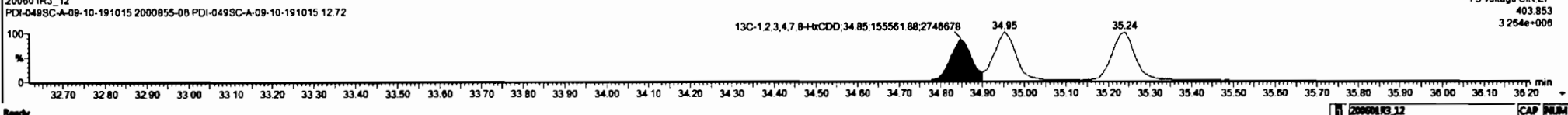
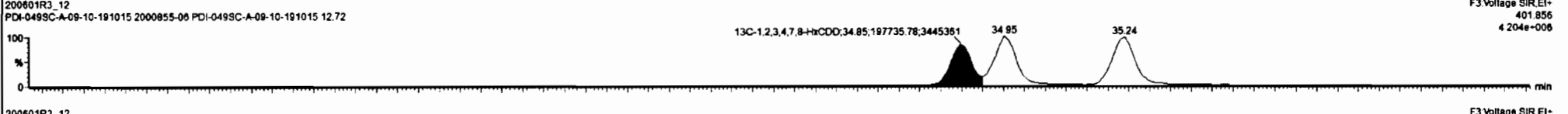
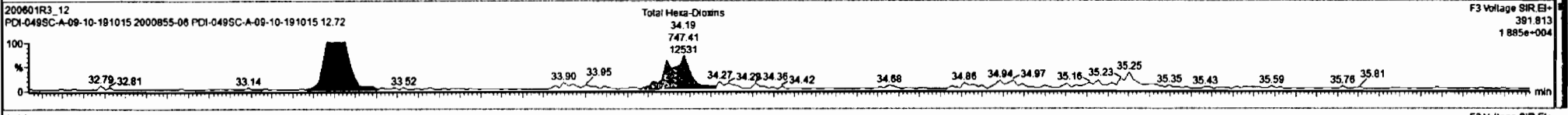
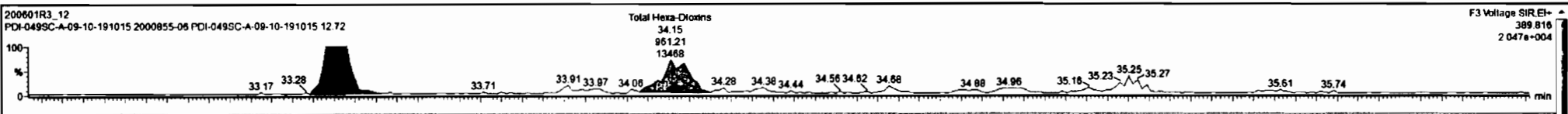
200601R3_12



200601R3_12



13C-1,2,3,4,6,8-HxCDF	7.17e5	0.51	NO	1.0000	10.010	34.37	1.000	200	100	0.342
Total Tetra-Dioxins				0.8683	10.010			0.510		0.645
Total Penta-Dioxins				0.9061	10.010			0.414		0.613
Total Hepta-Dioxins				0.8630	10.010			0.77		0.151
Total Tetra-Furans				0.7510	10.010					0.0328
1st Func. Penta-Furans				0.6625	10.010					0.0128
Total Penta-Furans				0.6625	10.010					0.0359
Total Hexa-Furans				0.8341	10.010					0.0365
Total Hepta-Furans				0.8734	10.010					0.0429
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



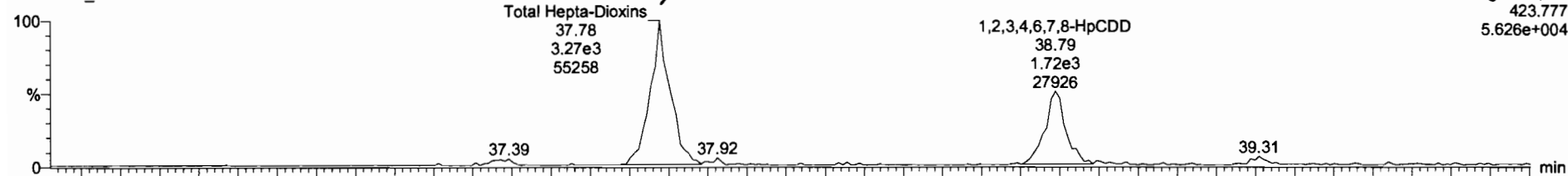
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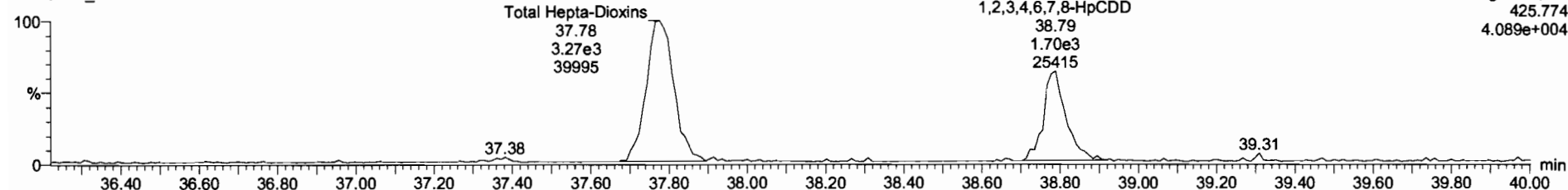
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1,2,3,4,6,7,8-HpCDD

200601R3_12

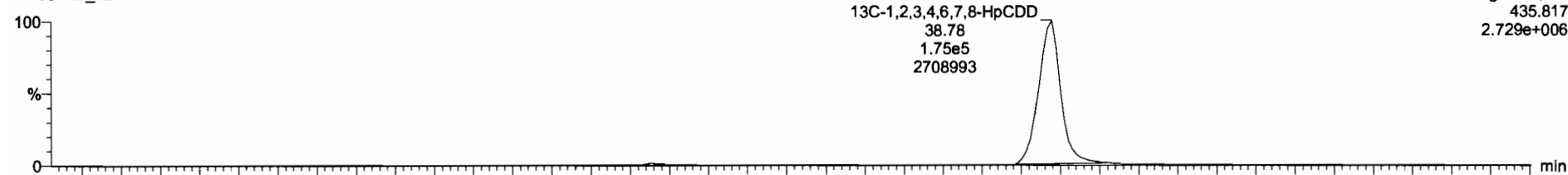


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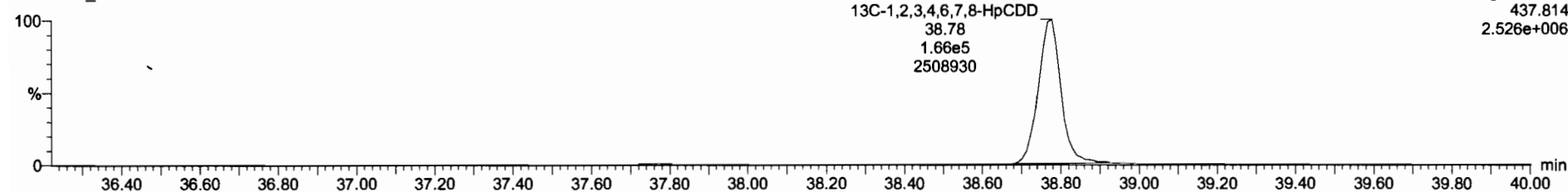


13C-1,2,3,4,6,7,8-HpCDD

200601R3_12



200601R3_12

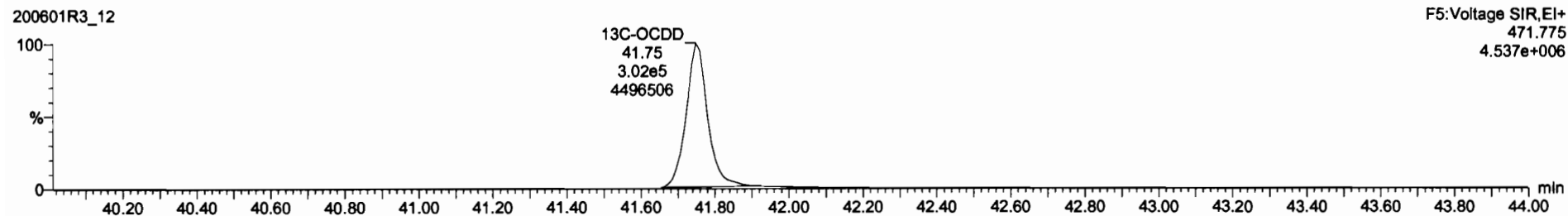
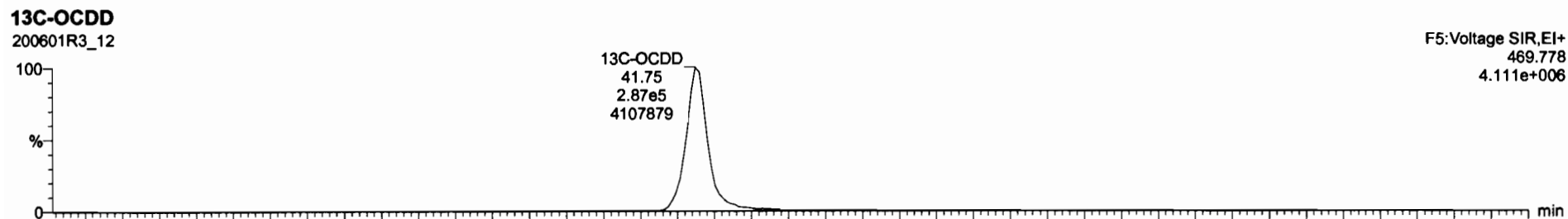
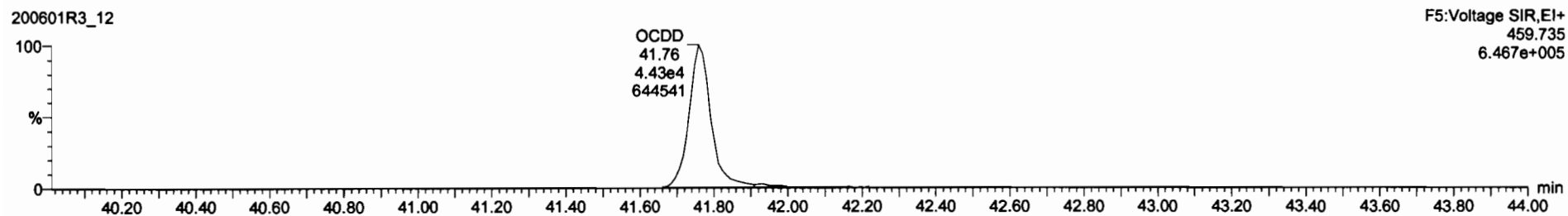
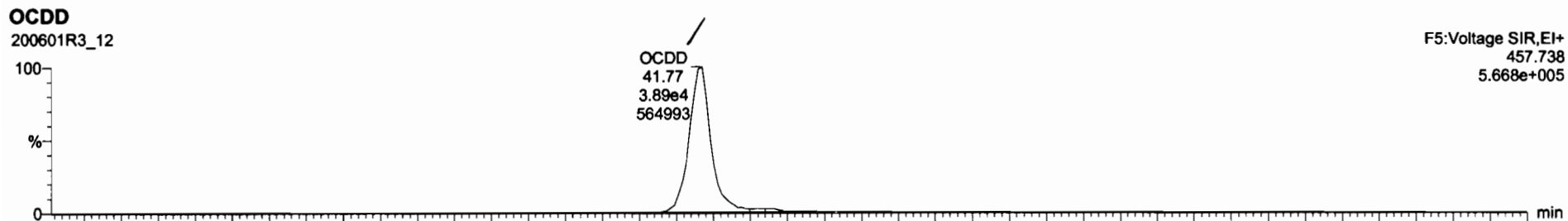


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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_12, Date: 01-Jun-2020, Time: 23:33:45, ID: 2000855-06 PDI-049SC-A-09-10-191015 12.72, Description: PDI-049SC-A-09-10-191015



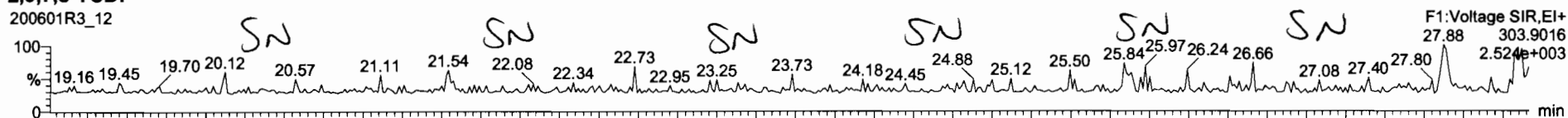
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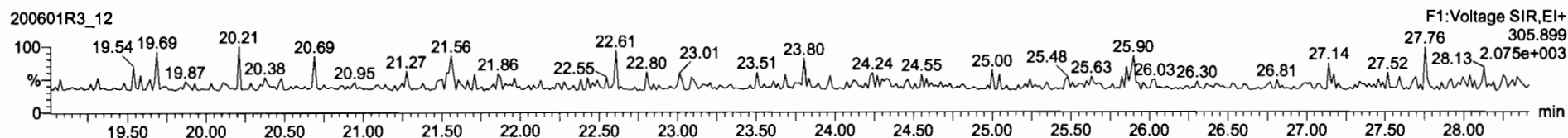
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2,3,7,8-TCDF

200601R3_12

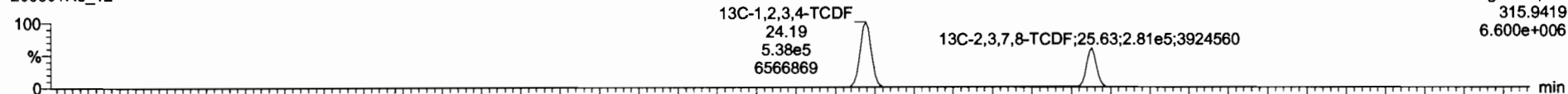


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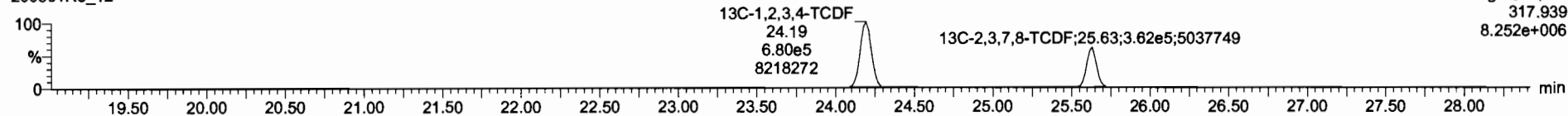


13C-2,3,7,8-TCDF

200601R3_12

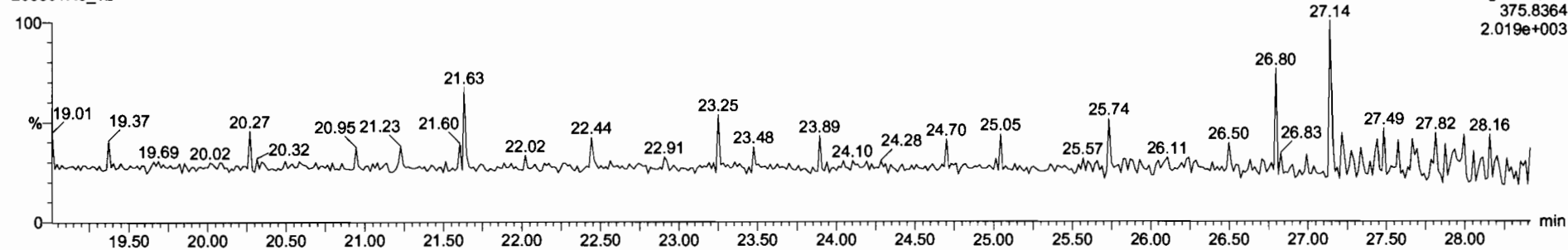


200601R3_12



DPE1

200601R3_12



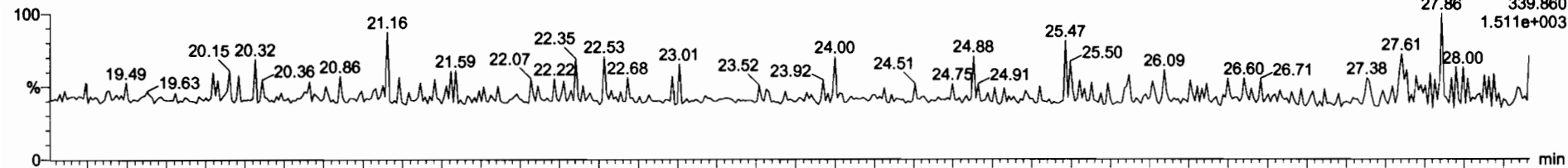
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

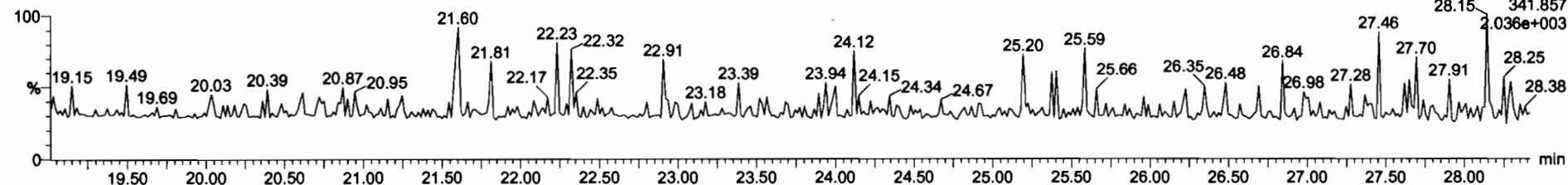
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1st Func. Penta-Furans

200601R3_12

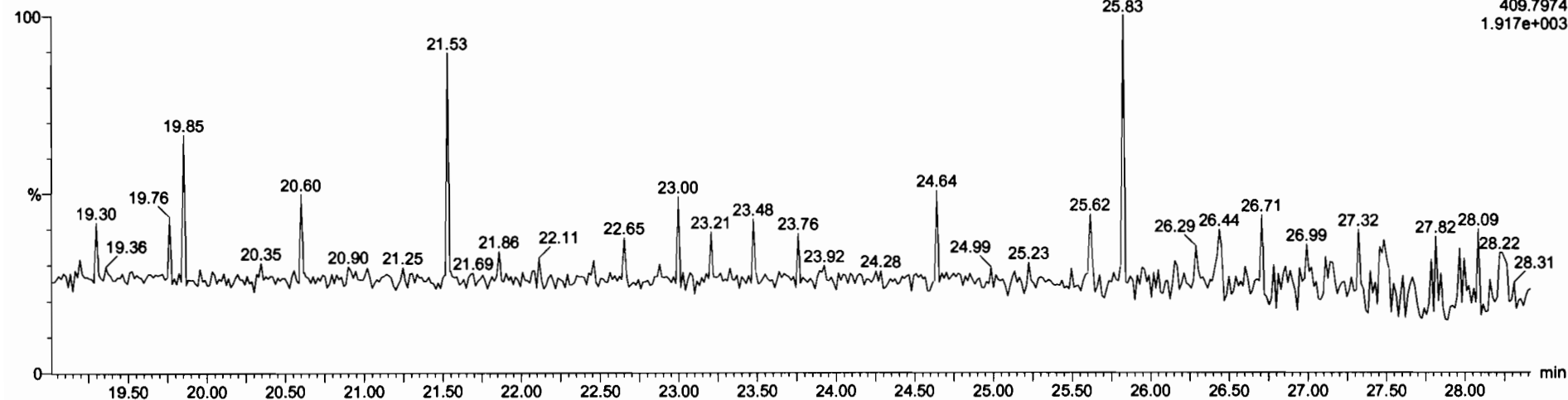


200601R3_12



DPE6

200601R3_12



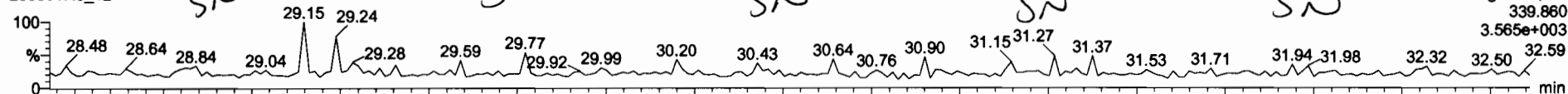
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

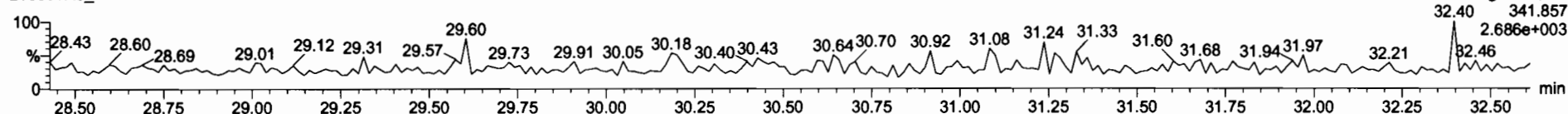
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1,2,3,7,8-PeCDF

200601R3_12

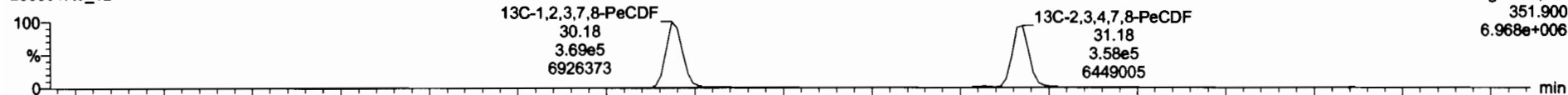


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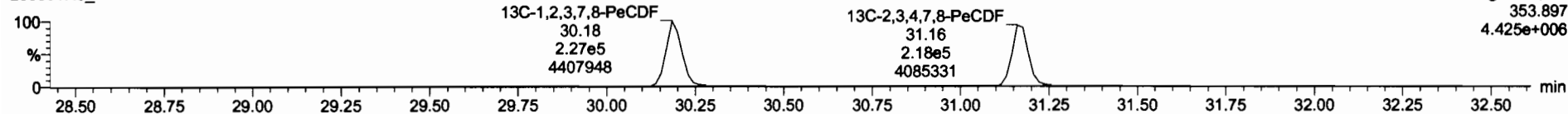


13C-1,2,3,7,8-PeCDF

200601R3_12

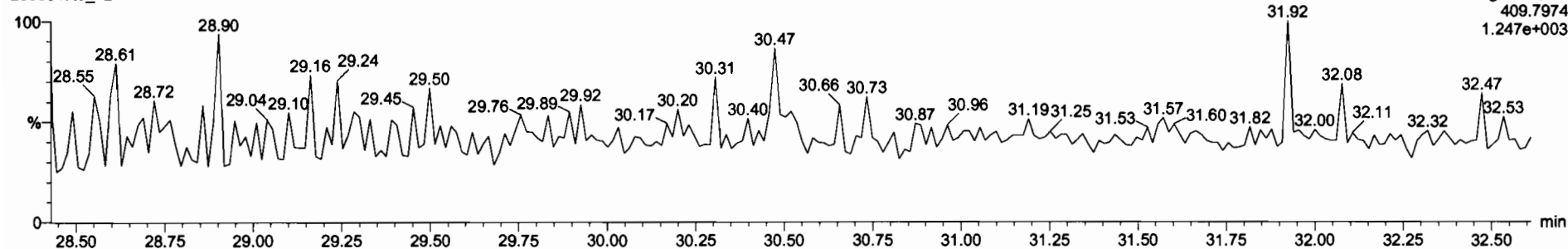


200601R3_12



DPE2

200601R3_12

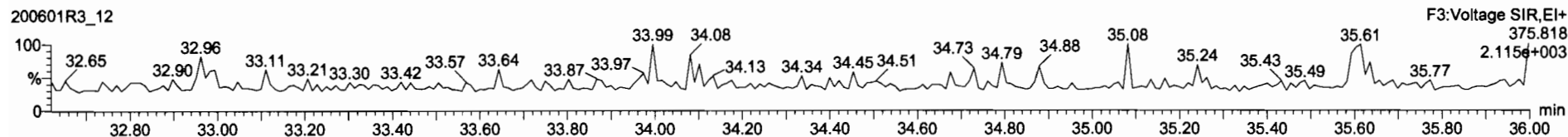
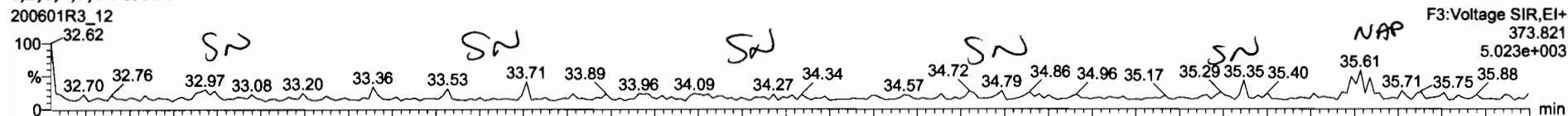


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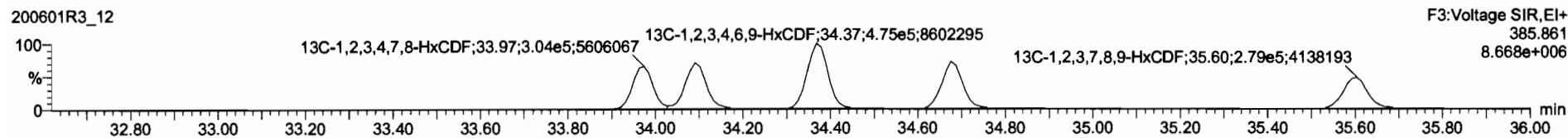
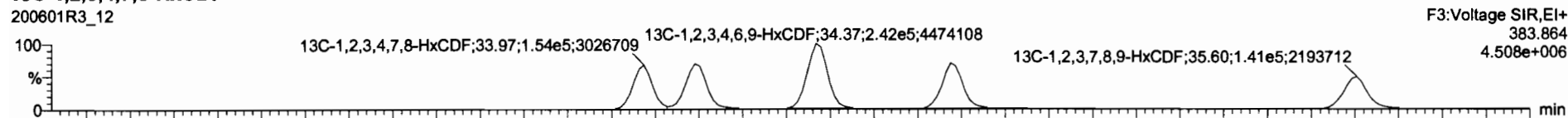
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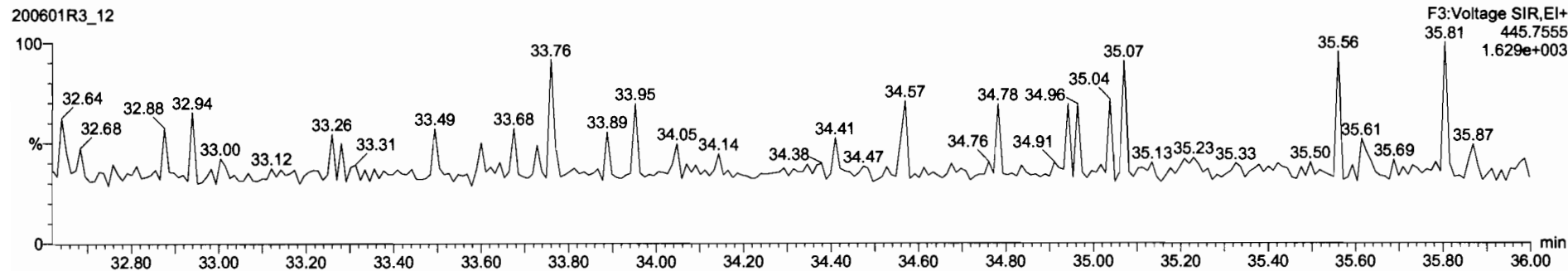
1,2,3,4,7,8-HxCDF



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



DPE3



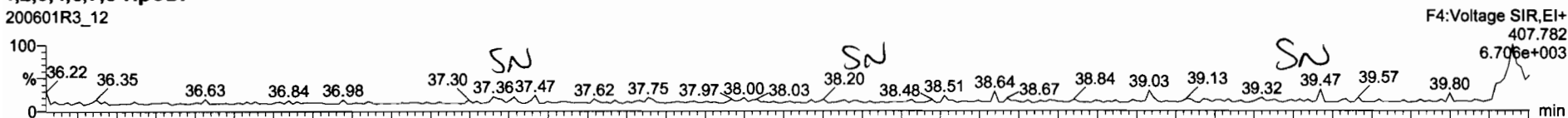
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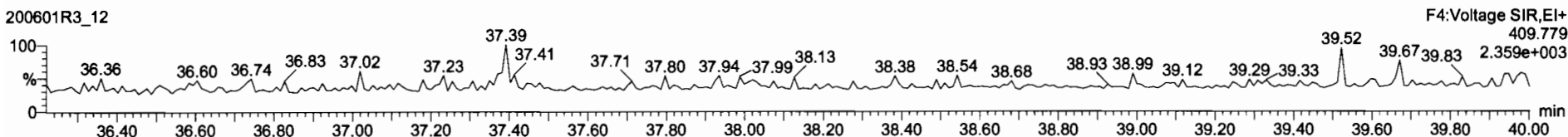
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1,2,3,4,6,7,8-HpCDF

200601R3_12

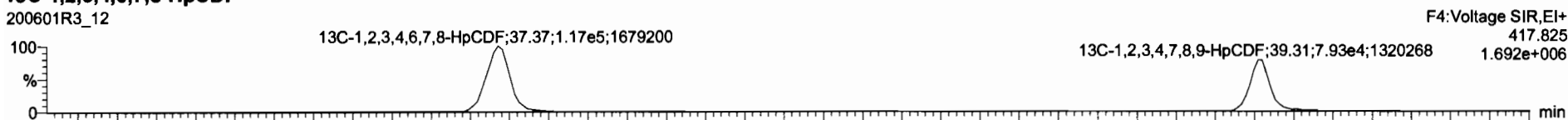


200601R3_12

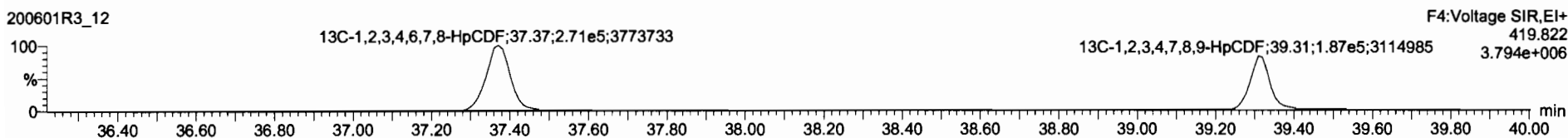


13C-1,2,3,4,6,7,8-HpCDF

200601R3_12

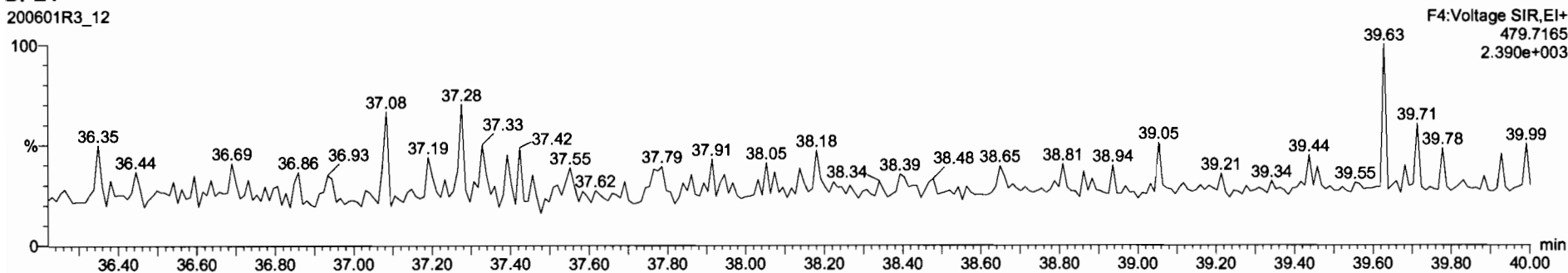


200601R3_12



DPE4

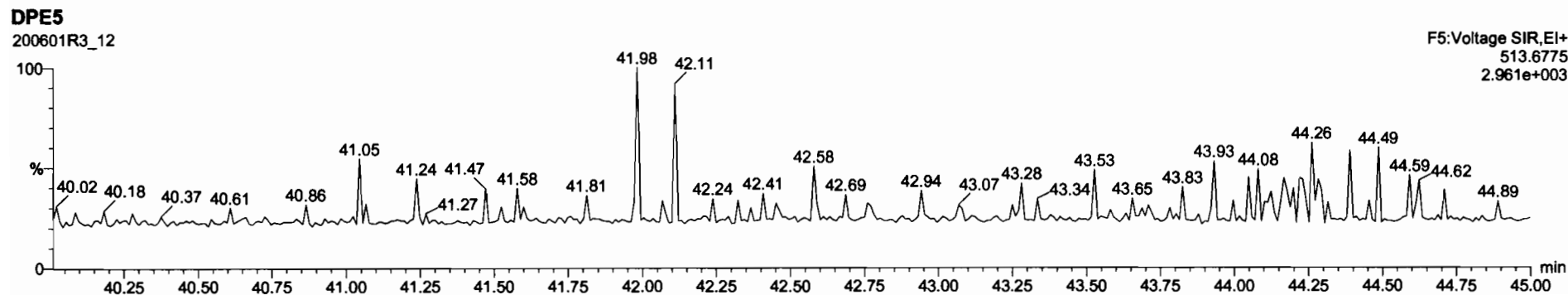
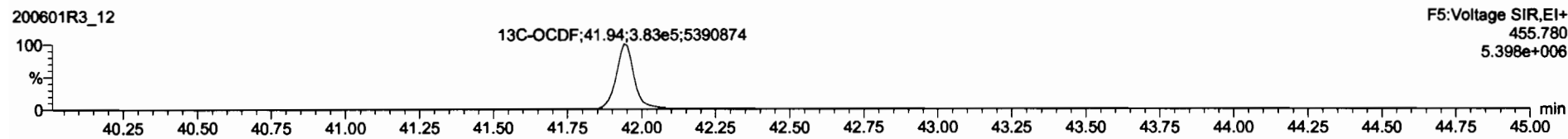
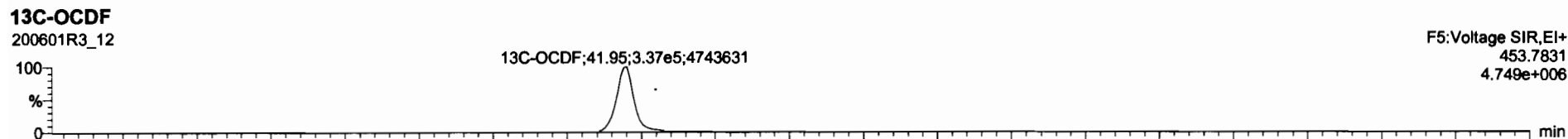
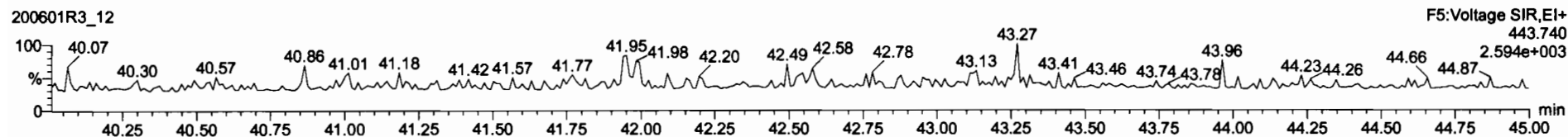
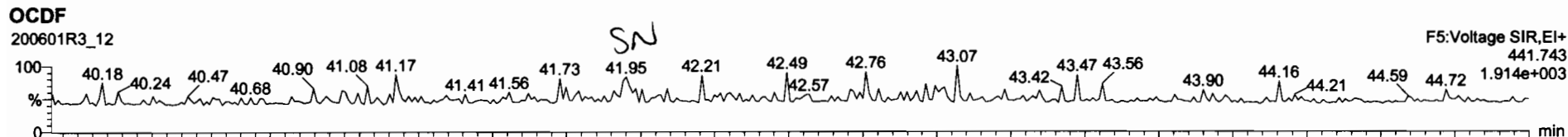
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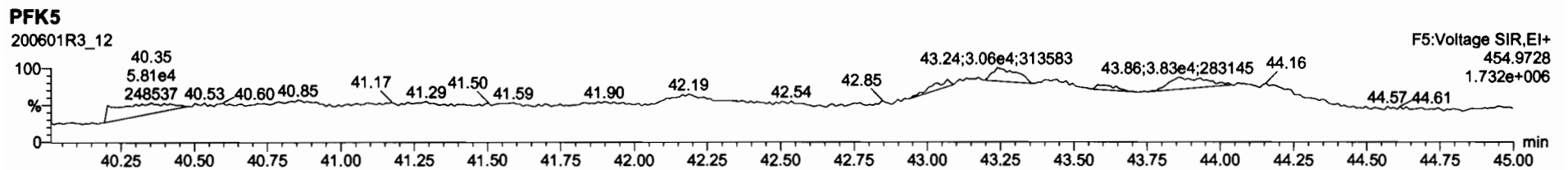
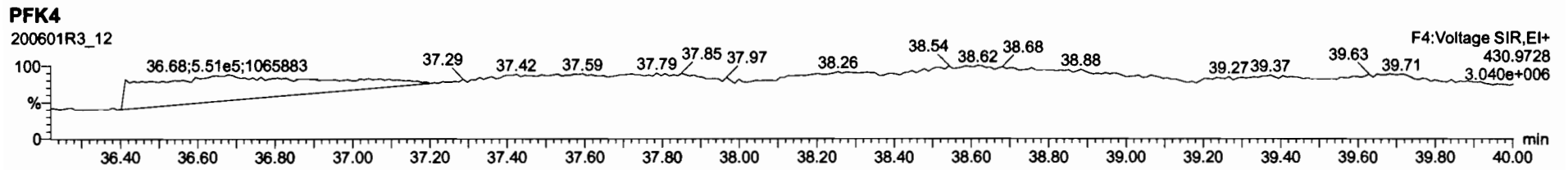
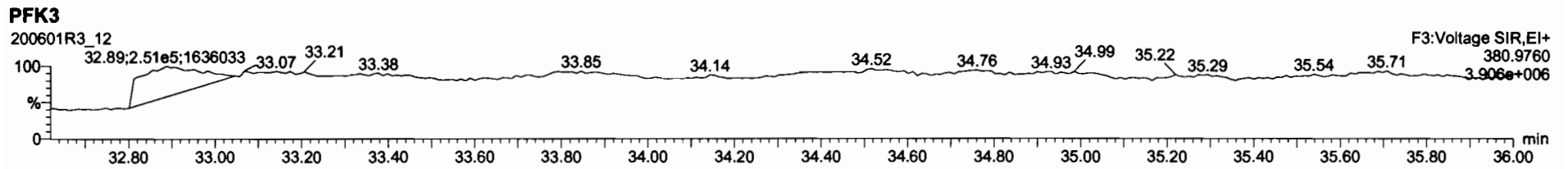
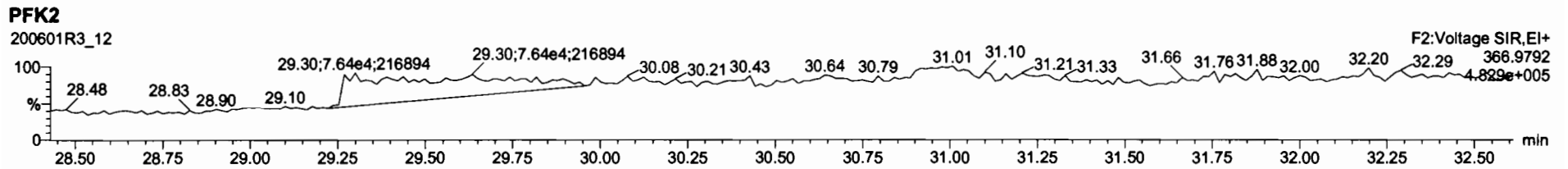
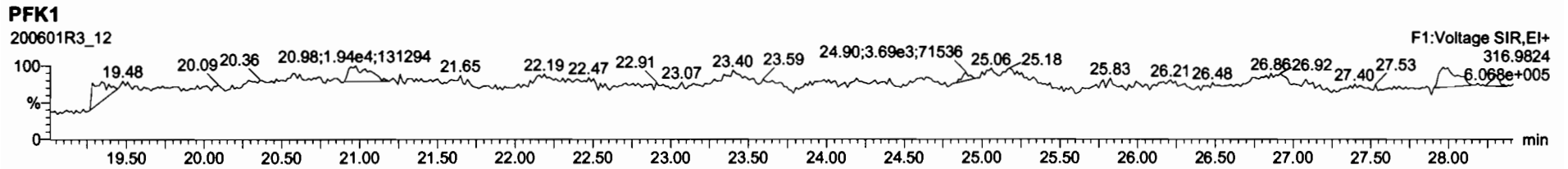


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Dataset: U:\VG12.PRO\Results\200601R3\200601R3-13.qld

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GPB 06/02/2020

LT 06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Callbration: U:\VG12.PRO\CurveDB\cb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

	Concn	RA	n/y	RRF	WVol	Prod RT	RT	RRRT	RRF				
1	2,3,7,8-TCDD	1.60e3	0.55	YES	0.888	10.013	26.560	26.56	1.001	1.001	0.40504	0.0702	0.328
2	1,2,3,7,8-PeCDD	2.94e2	0.95	YES	0.908	10.013	31.503	31.48	1.001	1.000	0.10195	0.103	0.0850
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.013	34.867		1.000			0.181	
4	1,2,3,6,7,8-HxCDD	6.39e2	1.11	NO	0.892	10.013	34.964	35.00	1.000	1.001	0.22833	0.177	0.228
5	1,2,3,7,8,9-HxCDD	1.19e3	1.08	NO	0.887	10.013	35.252	35.24	1.000	1.000	0.45082	0.195	0.451
6	1,2,3,4,6,7,8-HpCDD	9.24e3	1.02	NO	0.864	10.013	38.789	38.79	1.000	1.000	5.1289	0.174	5.13
7	OCDD	1.01e5	0.87	NO	0.914	10.013	41.770	41.78	1.000	1.000	65.889	0.272	65.9
8	2,3,7,8-TCDF			NO	0.751	10.013	25.657		1.001			0.0454	
9	1,2,3,7,8-PeCDF			NO	0.893	10.013	30.220		1.001			0.0535	
10	2,3,4,7,8-PeCDF			NO	0.935	10.013	31.207		1.001			0.0486	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.013	33.973		1.000			0.0436	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.013	34.111		1.000			0.0411	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.013	34.722		1.001			0.0428	
14	1,2,3,7,8,9-HxCDF	1.69e2	1.26	NO	0.871	10.013	35.603	35.63	1.000	1.001	0.065052	0.0292	0.0651
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.013	37.419		1.001			0.0743	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.013	39.331		1.000			0.0783	
17	OCDF	2.00e2	1.00	NO	0.806	10.013	41.961	41.94	1.000	1.000	0.12382	0.105	0.124
18	13C-2,3,7,8-TCDD	8.91e5	0.80	NO	1.16	10.013	26.553	26.53	1.026	1.025	185.52	92.9	0.232
19	13C-1,2,3,7,8-PeCDD	6.34e5	0.65	NO	0.849	10.013	31.748	31.48	1.227	1.217	180.00	90.1	0.231
20	13C-1,2,3,4,7,8-HxCDD	5.21e5	1.27	NO	0.779	10.013	34.863	34.86	1.014	1.014	175.06	87.6	0.225
21	13C-1,2,3,6,7,8-HxCDD	6.26e5	1.21	NO	1.02	10.013	34.976	34.96	1.017	1.017	161.05	80.6	0.172
22	13C-1,2,3,7,8,9-HxCDD	5.93e5	1.18	NO	0.903	10.013	35.248	35.24	1.025	1.025	171.81	86.0	0.194
23	13C-1,2,3,4,6,7,8-HpCDD	4.17e5	1.07	NO	0.689	10.013	38.775	38.78	1.128	1.128	158.12	79.2	0.300
24	13C-OCDD	6.68e5	0.91	NO	0.652	10.013	41.800	41.77	1.216	1.215	268.10	67.1	0.474
25	13C-2,3,7,8-TCDF	1.25e6	0.78	NO	1.06	10.013	25.593	25.63	0.989	0.991	187.06	93.7	0.231
26	13C-1,2,3,7,8-PeCDF	9.92e5	1.63	NO	0.838	10.013	30.128	30.20	1.165	1.167	187.24	93.7	0.456
27	13C-2,3,4,7,8-PeCDF	9.82e5	1.61	NO	0.817	10.013	31.083	31.18	1.202	1.205	190.11	95.2	0.468
28	13C-1,2,3,4,7,8-HxCDF	6.73e5	0.51	NO	1.01	10.013	33.993	33.97	0.989	0.988	174.60	87.4	0.428
29	13C-1,2,3,6,7,8-HxCDF	7.32e5	0.51	NO	1.17	10.013	34.117	34.10	0.992	0.992	164.11	82.2	0.370
30	13C-2,3,4,6,7,8-HxCDF	6.97e5	0.51	NO	1.02	10.013	34.691	34.69	1.009	1.009	178.51	89.4	0.422
31	13C-1,2,3,7,8,9-HxCDF	5.94e5	0.52	NO	0.860	10.013	35.592	35.60	1.035	1.036	180.89	90.6	0.502

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-13.qld

Last Altered: Tuesday, June 02, 2020 12:07:41 PM Pacific Daylight Time
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Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

32	13C-1,2,3,4,6,7,8-HpCDF	4.77e5	0.43	NO	0.774	10.013	37.341	37.38	1.086	1.087	160.99	80.6	0.423	
33	13C-1,2,3,4,7,8,9-HpCDF	3.41e5	0.44	NO	0.521	10.013	39.373	39.33	1.145	1.144	171.33	85.8	0.629	
34	13C-OCDF	8.00e5	0.87	NO	0.746	10.013	41.972	41.96	1.221	1.221	280.63	70.3	0.286	
35	37Cl-2,3,7,8-TCDD	3.64e5			1.04	10.013	26.584	26.54	1.028	1.026	84.638	106	0.0879	
36	13C-1,2,3,4-TCDD	8.29e5	0.81	NO	1.00	10.013	25.890	25.87	1.000	1.000	199.73	100	0.269	
37	13C-1,2,3,4-TCDF	1.26e6	0.80	NO	1.00	10.013	24.360	24.19	1.000	1.000	199.73	100	0.245	
38	13C-1,2,3,4,6,9-HxCDF	7.64e5	0.51	NO	1.00	10.013	34.420	34.38	1.000	1.000	199.73	100	0.431	
39	Total Tetra-Dioxins				0.888	10.013	24.620		0.000		3.8601		0.0702	4.31
40	Total Penta-Dioxins				0.908	10.013	29.960		0.000		2.3192		0.103	2.48
41	Total Hexa-Dioxins				0.892	10.013	33.635		0.000		7.1743		0.193	7.17
42	Total Hepta-Dioxins				0.864	10.013	37.640		0.000		14.710		0.174	14.7
43	Total Tetra-Furans				0.751	10.013	23.610		0.000		0.00000		0.0212	0.0776
44	1st Func. Penta-Furans				0.893	10.013	27.580		0.000				0.00834	
45	Total Penta-Furans				0.893	10.013	29.275		0.000				0.0261	
46	Total Hexa-Furans				0.934	10.013	33.555		0.000		0.065052		0.0211	0.0651
47	Total Hepta-Furans				0.873	10.013	37.835		0.000				0.0372	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-13.qld

Last Altered: Tuesday, June 02, 2020 12:07:41 PM Pacific Daylight Time
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 Callbration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Score	EMPA	DA
Total Tetra-Dioxins	22.53	3.370e3	5.218e3	2.595e2	2.739e2	0.95	YES	0.000e0	0.00000	0.12237	0.0702
Total Tetra-Dioxins	22.97	3.044e3	3.433e3	2.156e2	3.196e2	0.67	NO	5.352e2	0.13512	0.13512	0.0702
Total Tetra-Dioxins	23.49	7.282e3	1.096e4	5.837e2	7.314e2	0.80	NO	1.315e3	0.33199	0.33199	0.0702
Total Tetra-Dioxins	24.36	4.991e4	7.456e4	4.193e3	5.631e3	0.74	NO	9.824e3	2.4801	2.4801	0.0702
Total Tetra-Dioxins	25.85	1.041e4	1.198e4	7.088e2	8.314e2	0.85	NO	1.540e3	0.38883	0.38883	0.0702
2,3,7,8-TCDD	26.56	9.329e3	1.816e4	5.648e2	1.032e3	0.55	YES	1.597e3	0.00000	0.32773	0.0702
Total Tetra-Dioxins	26.89	6.648e3	7.814e3	3.739e2	4.492e2	0.83	NO	8.232e2	0.20781	0.20781	0.0702
Total Tetra-Dioxins	27.49	9.222e3	1.262e4	5.210e2	7.320e2	0.71	NO	1.253e3	0.31631	0.31631	0.0702

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Score	EMPA	DA
Total Penta-Dioxins	29.25	7.674e3	1.296e4	5.076e2	8.430e2	0.60	NO	1.351e3	0.46822	0.46822	0.103
Total Penta-Dioxins	29.76	1.947e4	4.246e4	1.015e3	1.850e3	0.55	NO	2.865e3	0.99335	0.99335	0.103
Total Penta-Dioxins	30.72	9.305e3	1.226e4	3.970e2	6.786e2	0.59	NO	1.076e3	0.37291	0.37291	0.103
Total Penta-Dioxins	30.76	9.918e3	1.176e4	3.742e2	5.839e2	0.64	NO	9.581e2	0.33214	0.33214	0.103
1,2,3,7,8-PeCDD	31.48	3.690e3	3.303e3	1.436e2	1.505e2	0.95	YES	2.941e2	0.00000	0.085036	0.103
Total Penta-Dioxins	31.57	3.754e3	3.003e3	1.164e2	1.351e2	0.86	YES	0.000e0	0.00000	0.076339	0.103
Total Penta-Dioxins	31.88	2.683e3	6.182e3	1.759e2	2.642e2	0.67	NO	4.401e2	0.15258	0.15258	0.103

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Score	EMPA	DA
Total Hexa-Dioxins	33.37	1.217e5	9.908e4	6.188e3	5.202e3	1.19	NO	1.139e4	4.3953	4.3953	0.193
Total Hexa-Dioxins	33.93	5.768e3	5.743e3	4.156e2	3.430e2	1.21	NO	7.586e2	0.29274	0.29274	0.193
Total Hexa-Dioxins	34.19	3.574e4	2.815e4	2.288e3	1.878e3	1.22	NO	4.166e3	1.6075	1.6075	0.193
1,2,3,6,7,8-HxCDD	35.00	5.521e3	6.297e3	3.364e2	3.021e2	1.11	NO	6.386e2	0.22833	0.22833	0.177
Total Hexa-Dioxins	35.17	6.450e3	5.322e3	2.884e2	2.288e2	1.26	NO	5.172e2	0.19957	0.19957	0.193
1,2,3,7,8,9-HxCDD	35.24	1.189e4	1.042e4	6.172e2	5.698e2	1.08	NO	1.187e3	0.45082	0.45082	0.195

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-13.qld

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Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

Hepta-Dioxins

		m1 Height	m2 Height	m1 Resp	m2 Resp						
Total Hepta-Dioxins	37.78	1.228e5	1.137e5	8.686e3	8.581e3	1.01	NO	1.727e4	9.5813	9.5813	0.174
1,2,3,4,6,7,8-HpCDD	38.79	7.221e4	7.141e4	4.657e3	4.585e3	1.02	NO	9.243e3	5.1289	5.1289	0.174

Tetra-Furans

		m1 Height	m2 Height	m1 Resp	m2 Resp						
Total Tetra-Furans	21.53	1.922e3	3.379e3	1.590e2	2.466e2	0.64	YES	0.000e0	0.00000	0.077575	0.0212

Penta-Furans function 1

		m1 Height	m2 Height	m1 Resp	m2 Resp						

Penta-Furans

		m1 Height	m2 Height	m1 Resp	m2 Resp						

Hexa-Furans

		m1 Height	m2 Height	m1 Resp	m2 Resp						
1,2,3,7,8,9-HxCDF	35.63	1.748e3	2.255e3	9.391e1	7.466e1	1.26	NO	1.686e2	0.065052	0.065052	0.0292

Hepta-Furans

		m1 Height	m2 Height	m1 Resp	m2 Resp						

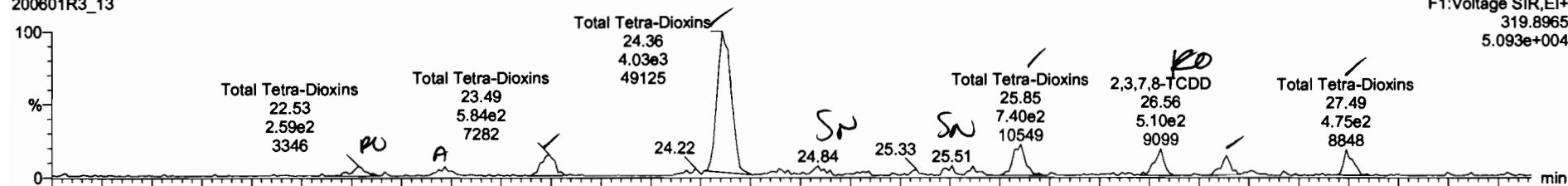
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Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

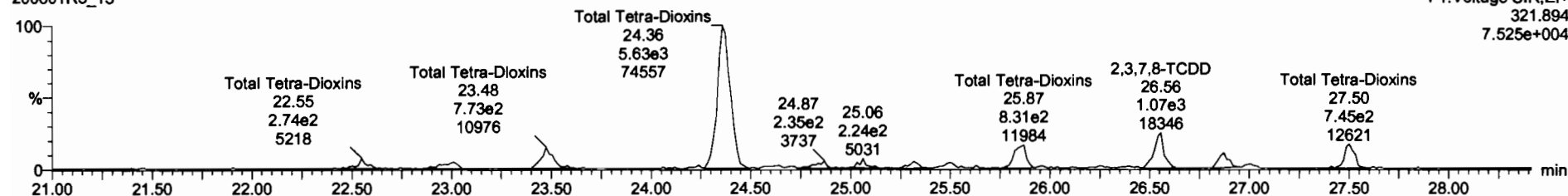
2,3,7,8-TCDD

200601R3_13



F1: Voltage SIR, EI+
319.8965
5.093e+004

200601R3_13



F1: Voltage SIR, EI+
321.894
7.525e+004

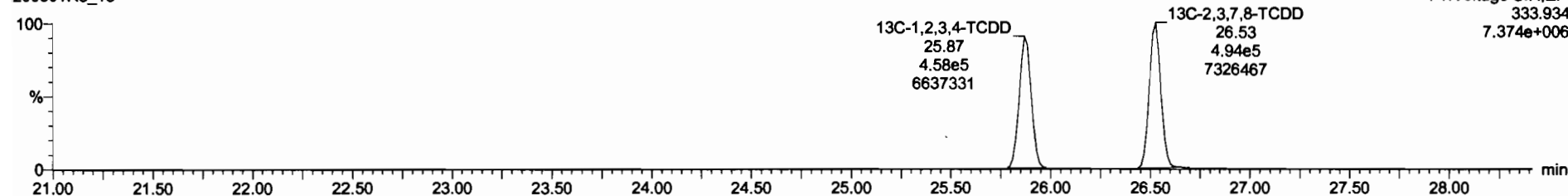
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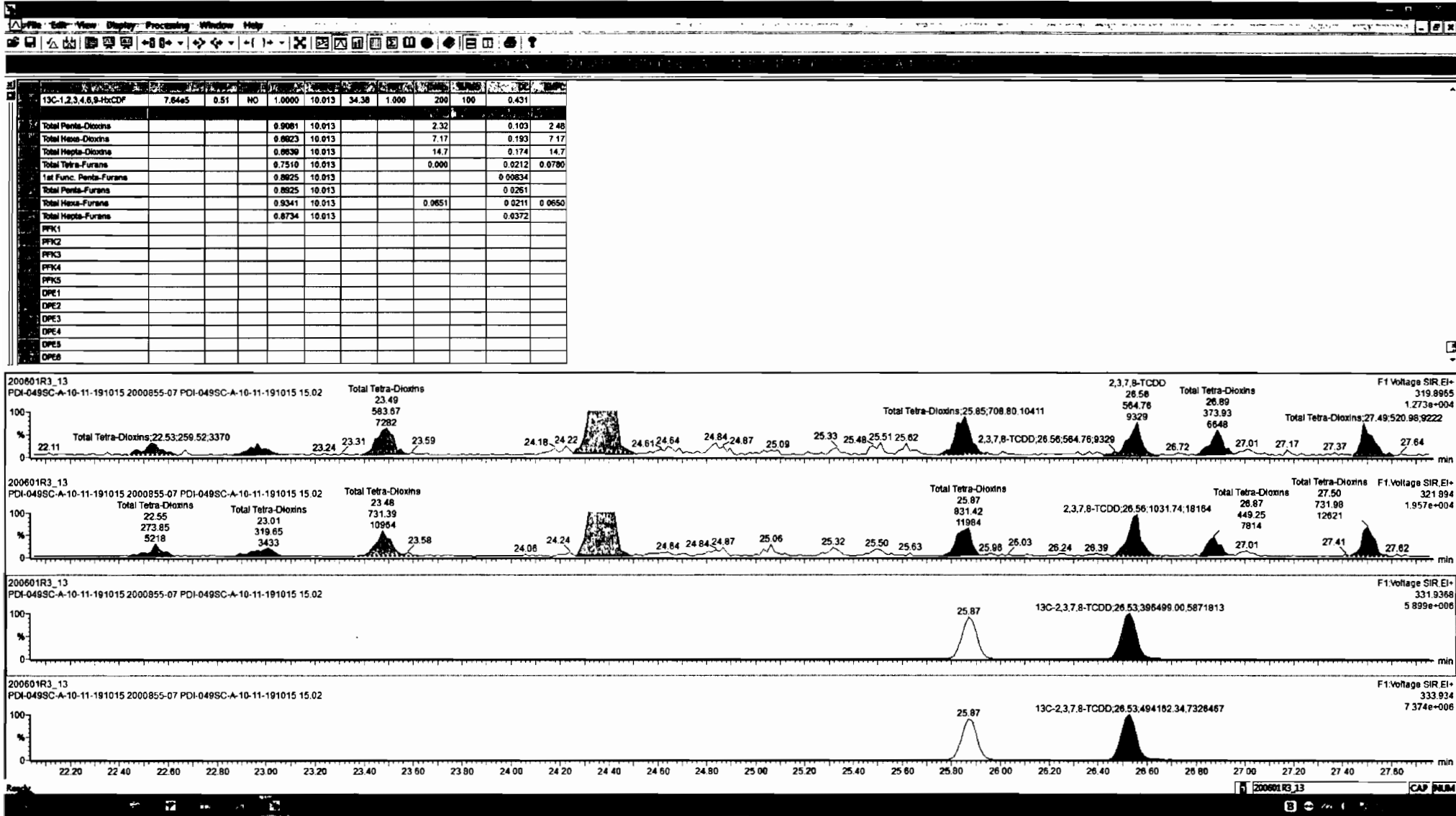


F1: Voltage SIR, EI+
331.9368
5.899e+006

200601R3_13



F1: Voltage SIR, EI+
333.934
7.374e+006



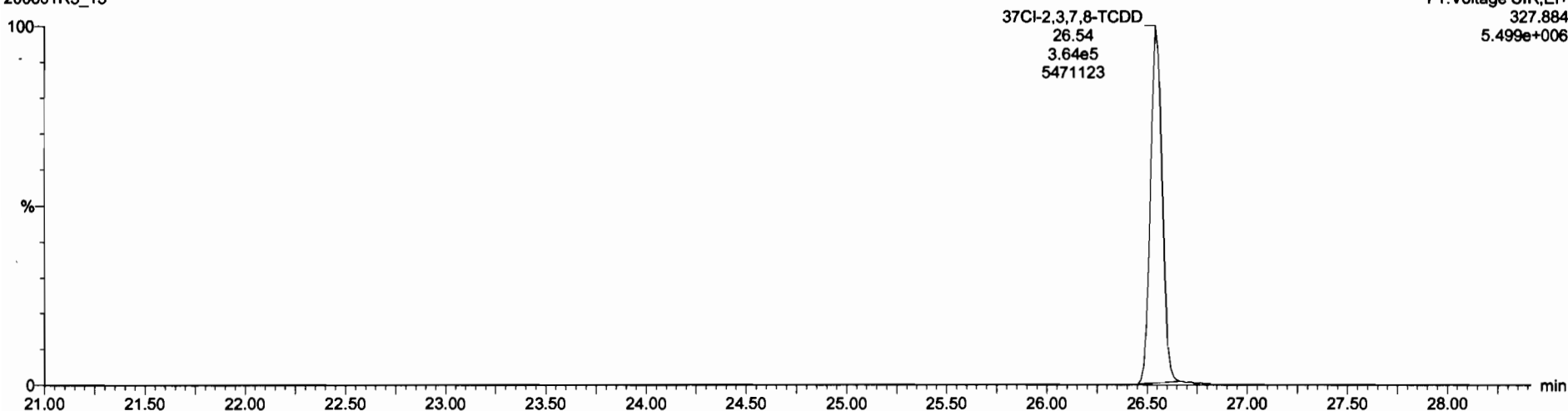
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37Cl-2,3,7,8-TCDD

200601R3_13

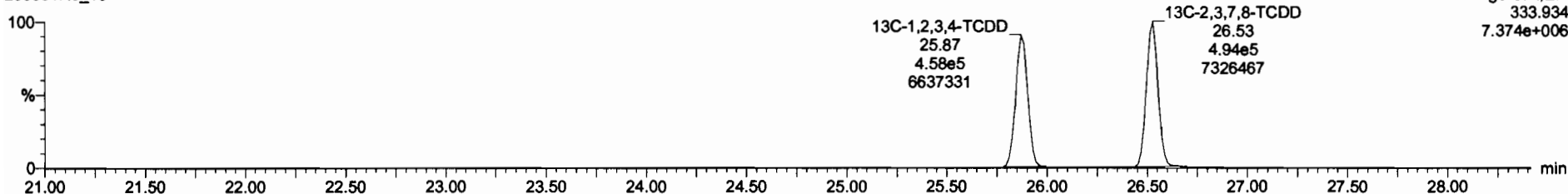


13C-1,2,3,4-TCDD

200601R3_13



200601R3_13



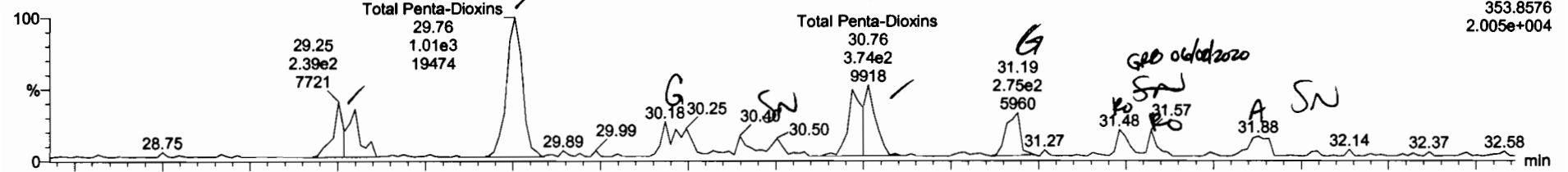
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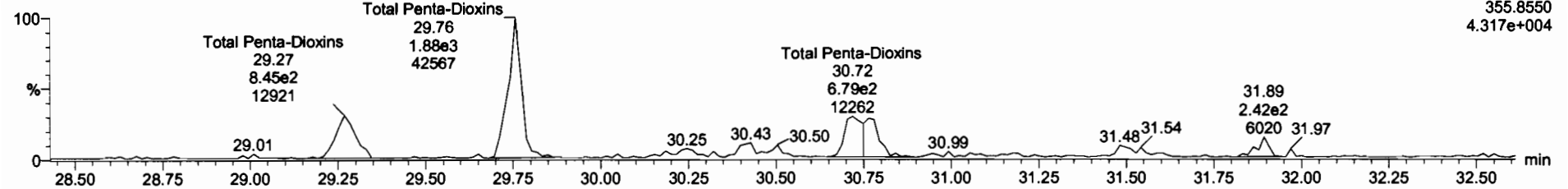
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1,2,3,7,8-PeCDD

200601R3_13

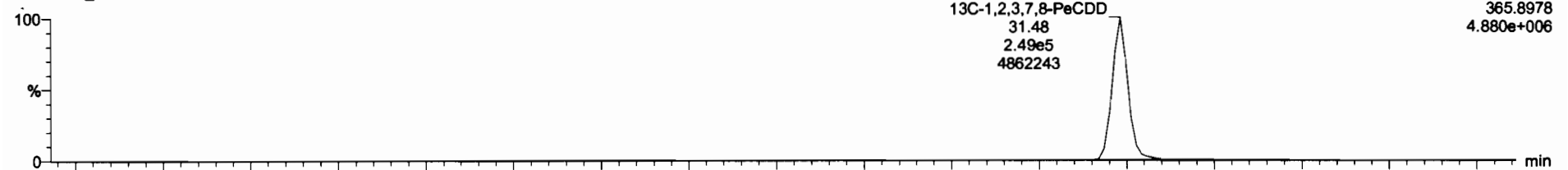


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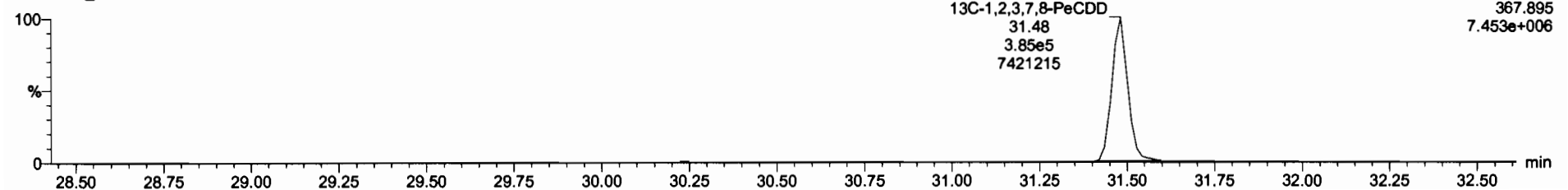


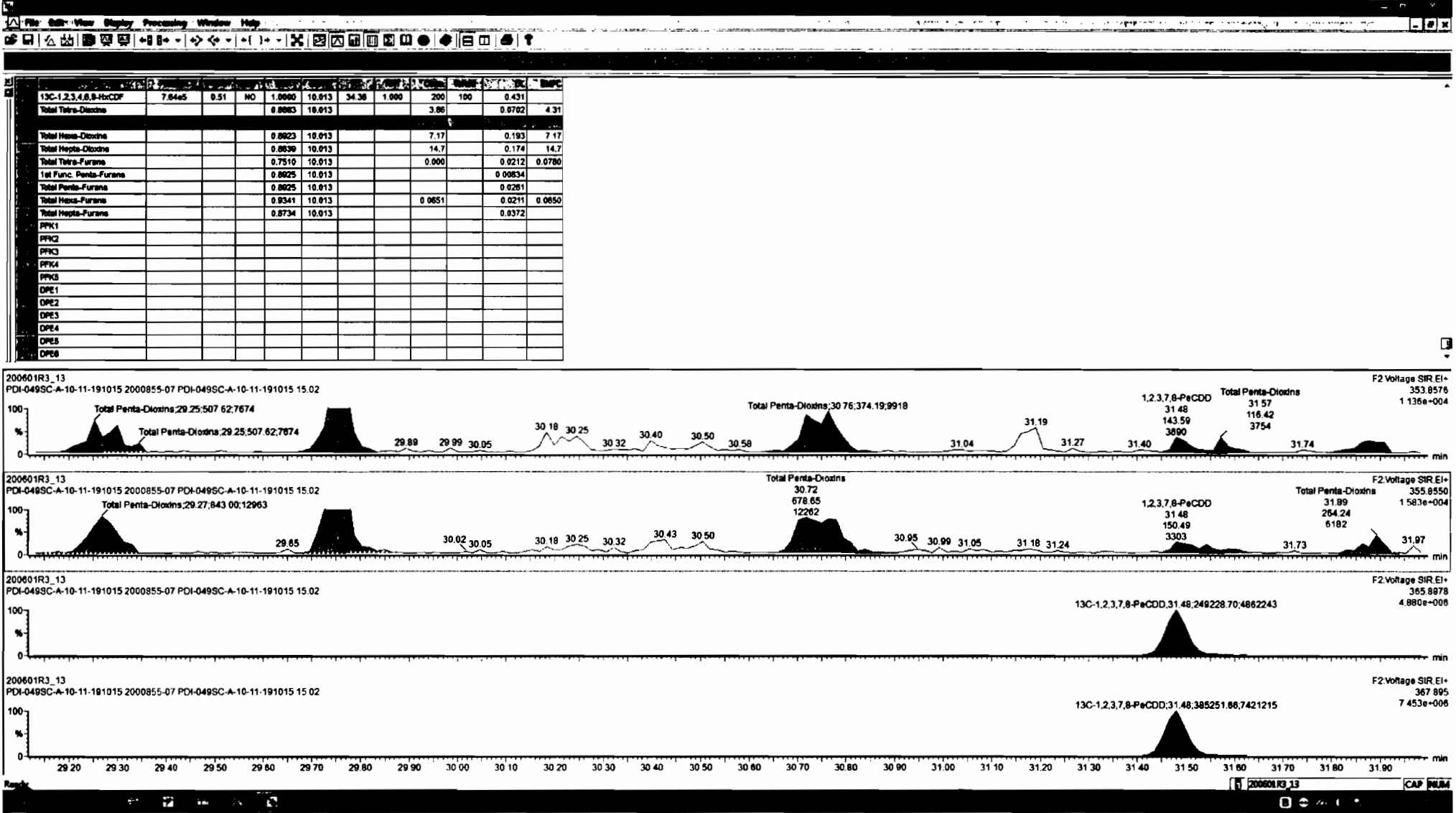
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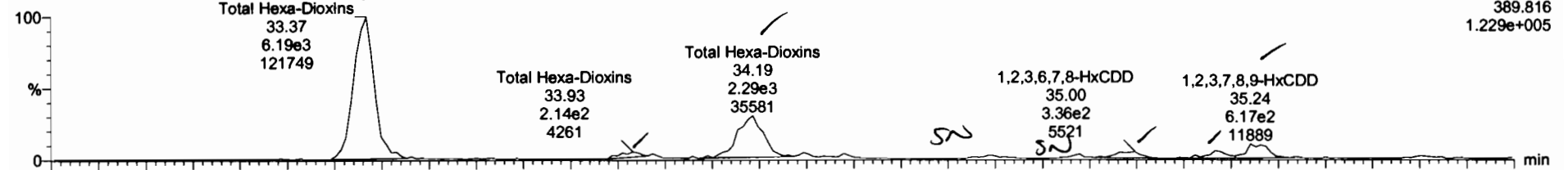
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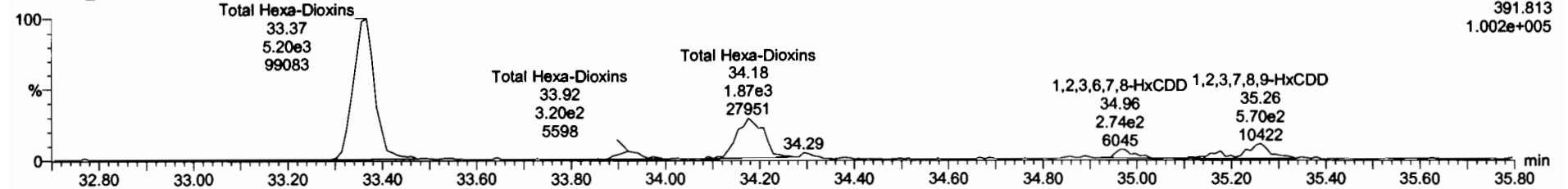
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1,2,3,4,7,8-HxCDD

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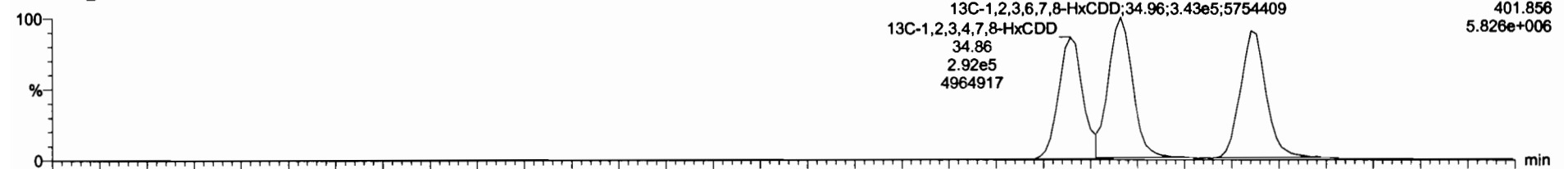


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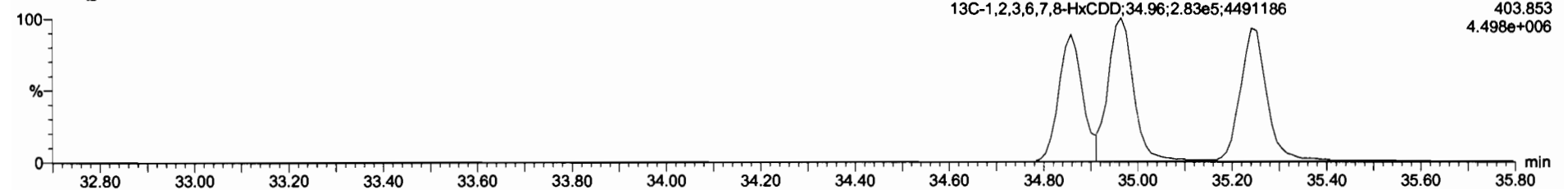


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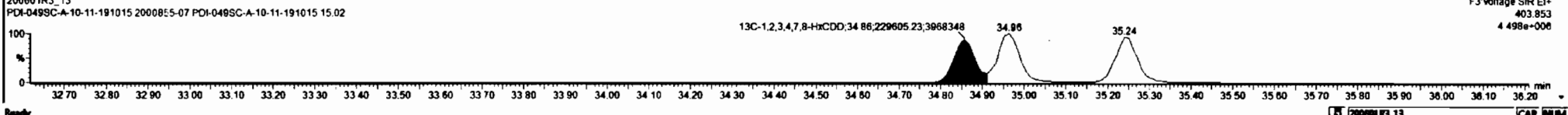
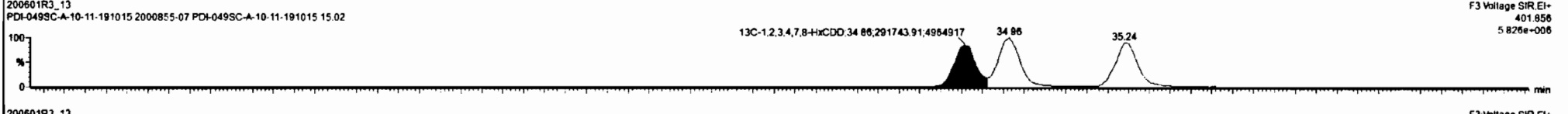
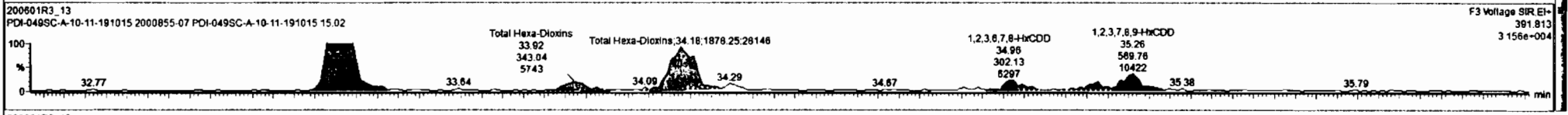
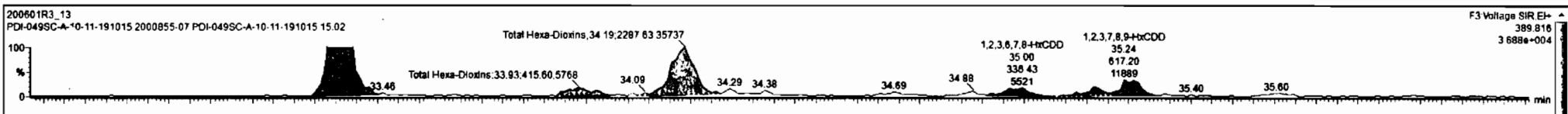
200601R3_13



200601R3_13



Compound	Area	Height	Width	Retention	Concentration	Response	Integration	Integration	Integration	Integration
13C-1,2,3,4,6,9-HxCDF	7.64e5	0.51	HO	1.0000	10.013	34.36	1.000	200	100	0.431
Total Tetra-Dioxins				0.0083	10.013			3.98		0.0702
Total Penta-Dioxins				0.9061	10.013			2.32		0.103
Total Hepta-Dioxins				0.0639	10.013			14.7		0.174
Total Tetra-Furans				0.7510	10.013			0.000		0.0212
1st Func. Penta-Furans				0.0625	10.013					0.00834
Total Penta-Furans				0.0625	10.013					0.0261
Total Hexa-Furans				0.9341	10.013			0.0651		0.0650
Total Hepta-Furans				0.8734	10.013					0.0372
PFK1										
PFK2										
PFK3										
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PFK5										
DPE1										
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DPE3										
DPE4										
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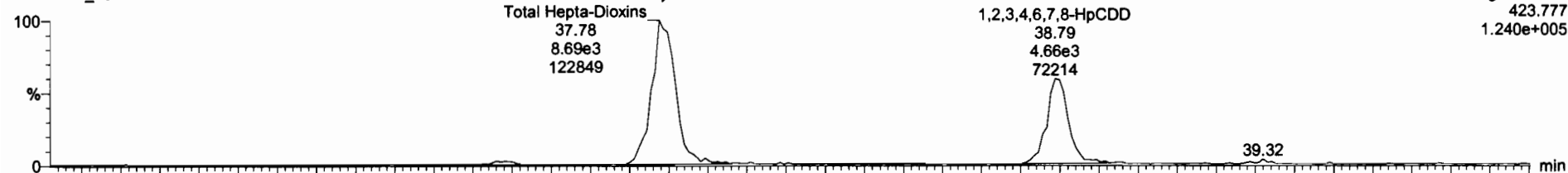
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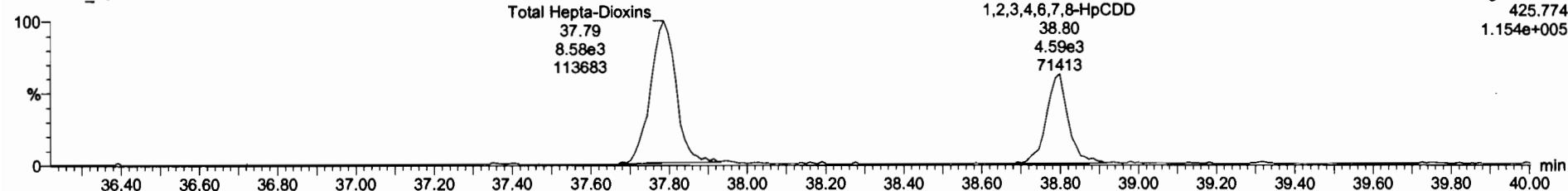
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1,2,3,4,6,7,8-HpCDD

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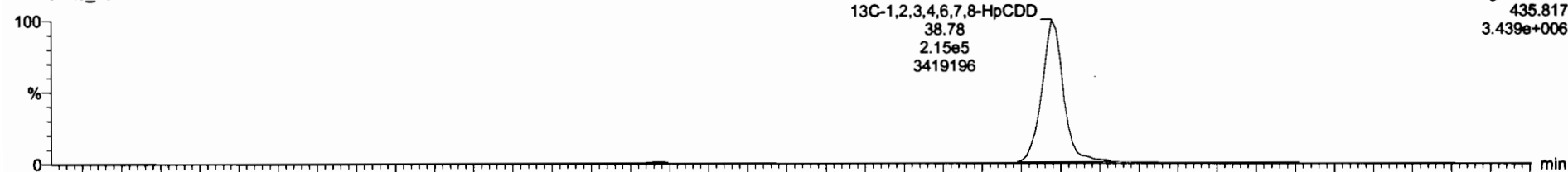


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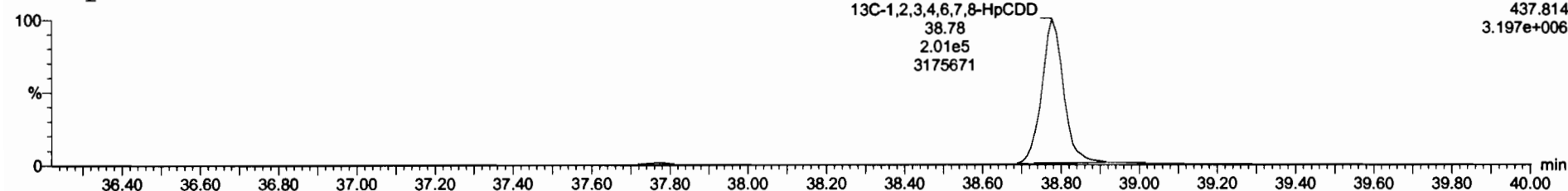


13C-1,2,3,4,6,7,8-HpCDD

200601R3_13



200601R3_13



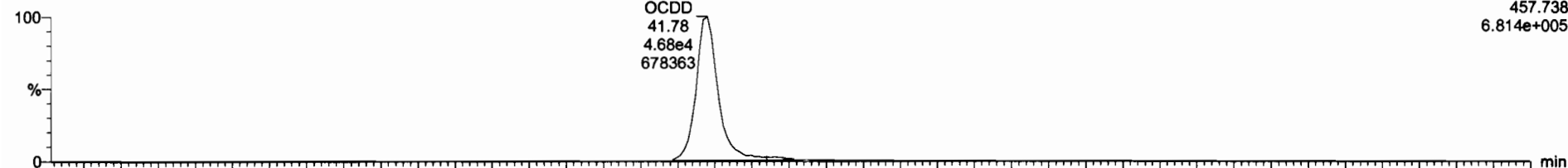
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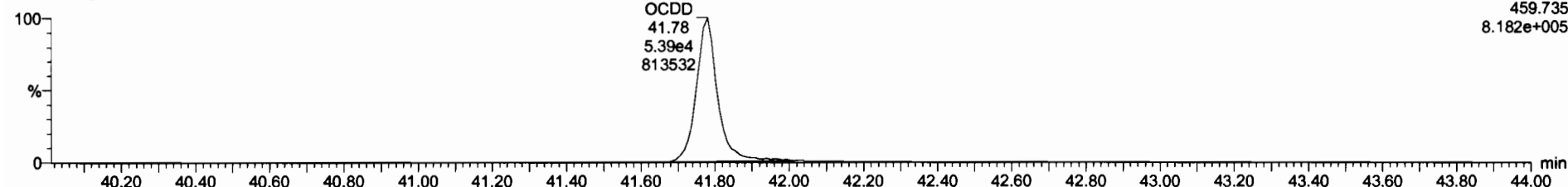
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OCDD

200601R3_13

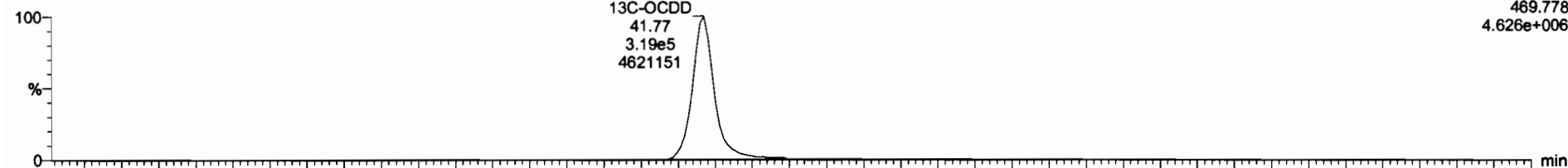


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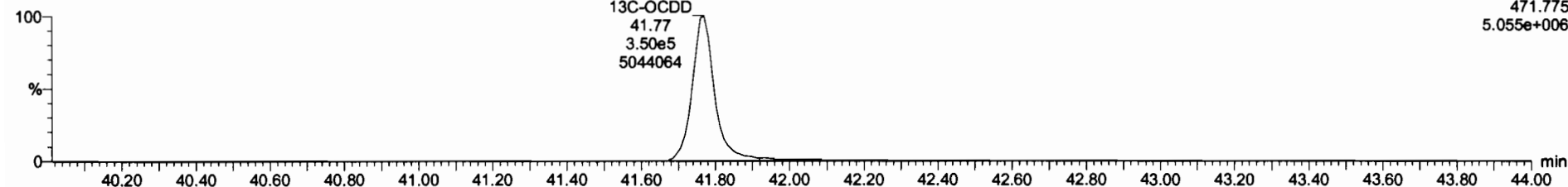


13C-OCDD

200601R3_13



200601R3_13



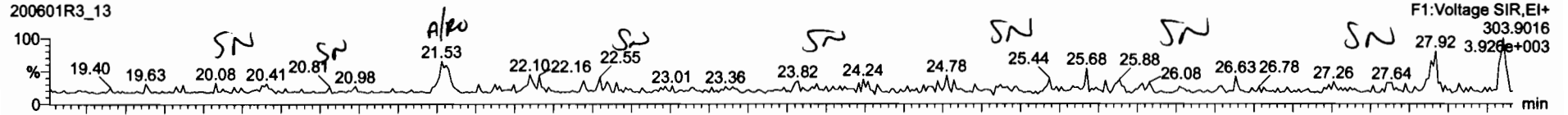
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

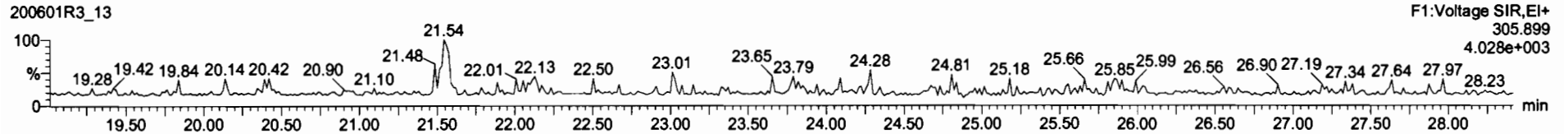
Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

2,3,7,8-TCDF

200601R3_13

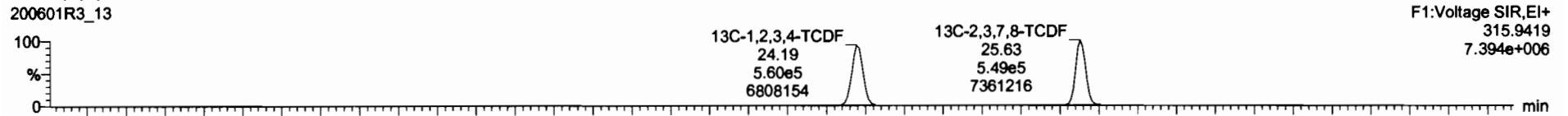


200601R3_13

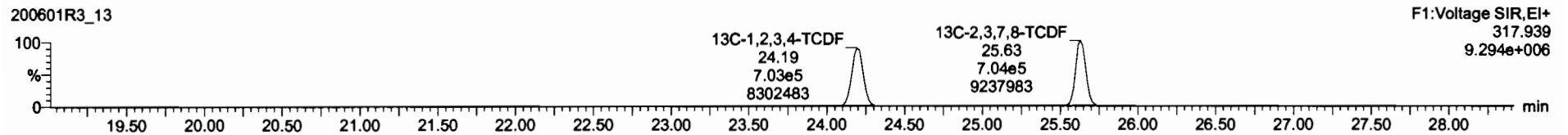


13C-2,3,7,8-TCDF

200601R3_13

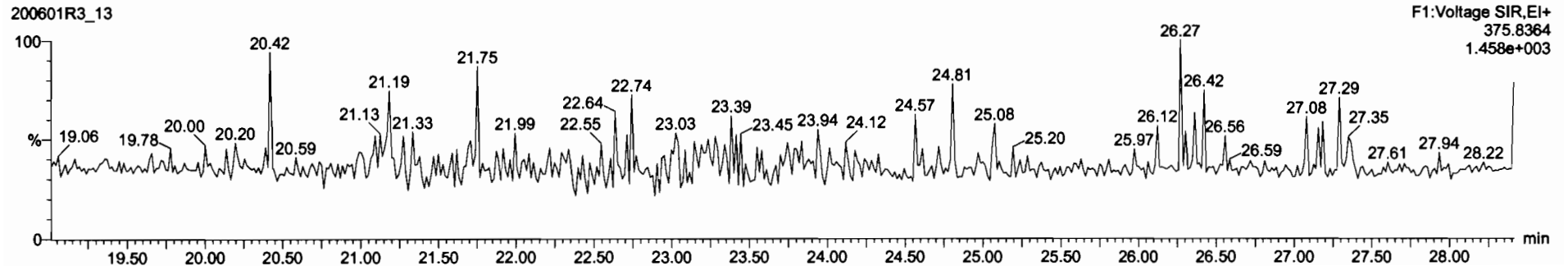


200601R3_13

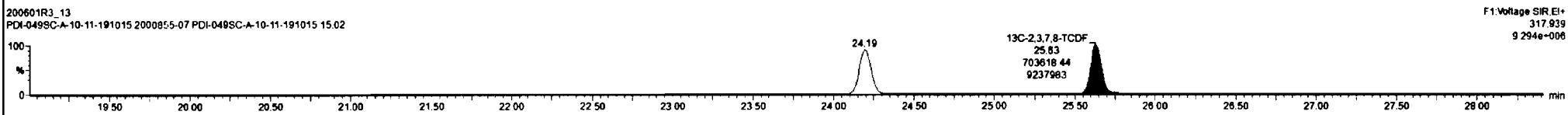
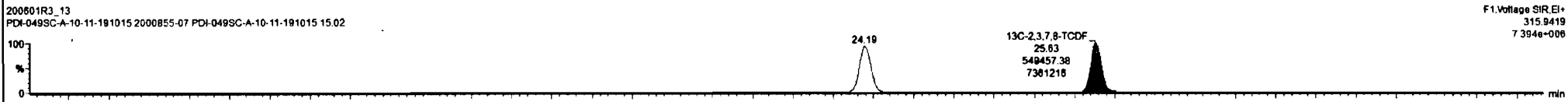
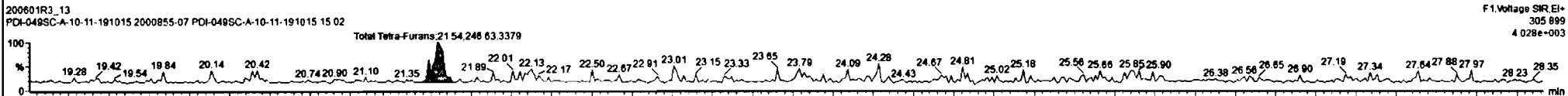
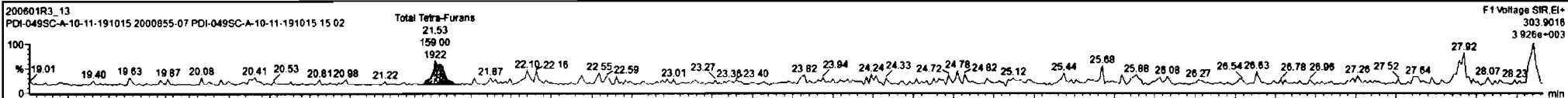


DPE1

200601R3_13



Comp	Area	Height	Width	Area%	Height%	Width%	Area%	Height%	Width%	Area%	Height%	Width%
13C-1,2,3,4,6,8-HxCDF	7.64e5	0.51	NO	1.0000	10.013	34.38	1.000	200	100	0.431		
Total Tetra-Dioxine				0.0083	10.013			3.86		0.0702	4.31	
Total Penta-Dioxine				0.9081	10.013			2.32		0.103	2.48	
Total Hexa-Dioxine				0.0023	10.013			7.17		0.193	7.17	
Total Hepta-Dioxine				0.0039	10.013			14.7		0.174	14.7	
1st Func. Penta-Furans				0.0025	10.013					0.00834		
Total Penta-Furans				0.0025	10.013					0.0261		
Total Hexa-Furans				0.9341	10.013			0.0051		0.0211	0.0650	
Total Hepta-Furans				0.0734	10.013					0.0372		
PFK1												
PFK2												
PFK3												
PFK4												
PFK5												
DPE1												
DPE2												
DPE3												
DPE4												
DPE5												
DPE6												



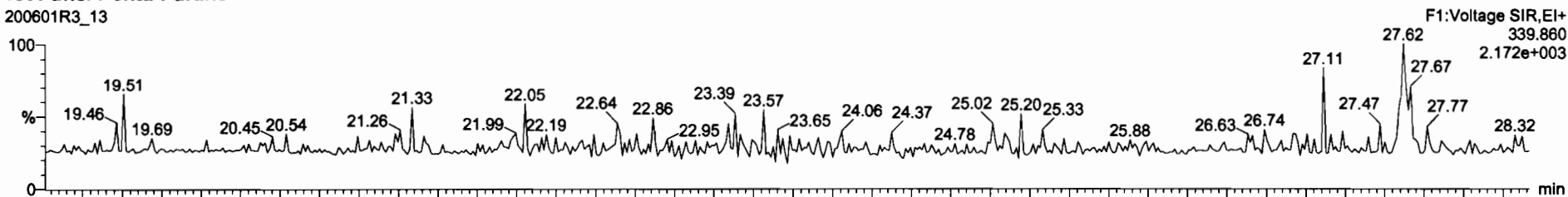
Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

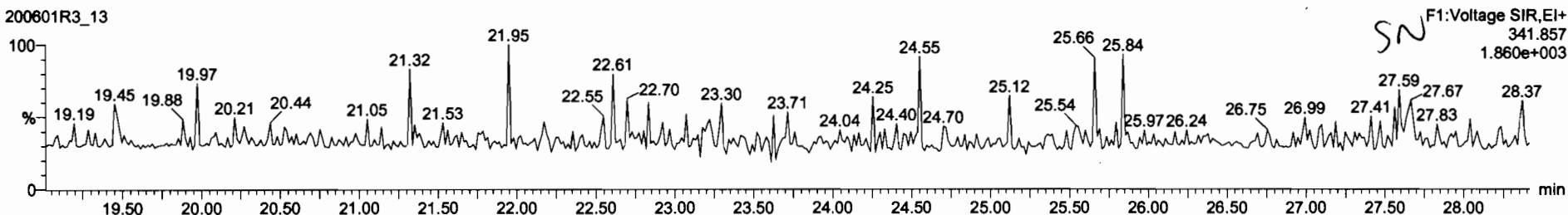
Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

1st Func. Penta-Furans

200601R3_13

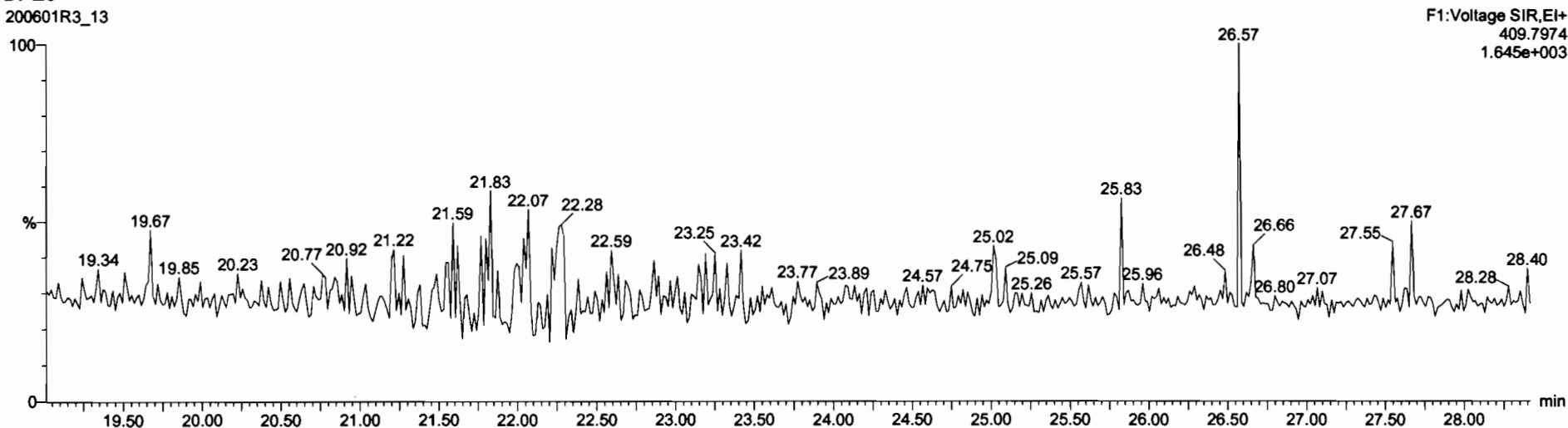


200601R3_13



DPE6

200601R3_13



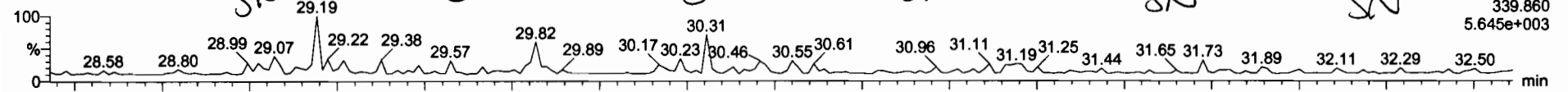
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

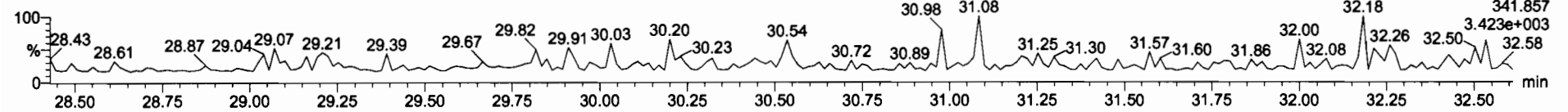
Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

1,2,3,7,8-PeCDF

200601R3_13

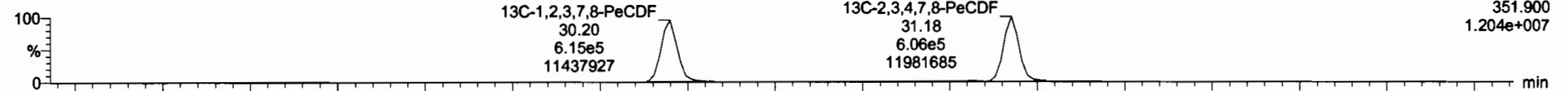


200601R3_13

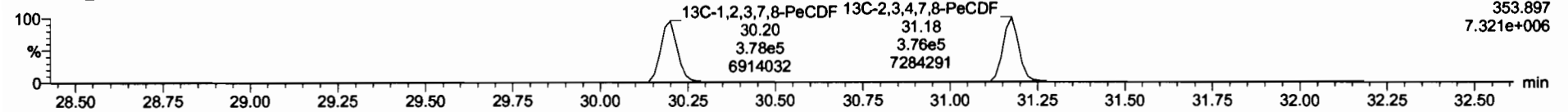


13C-1,2,3,7,8-PeCDF

200601R3_13

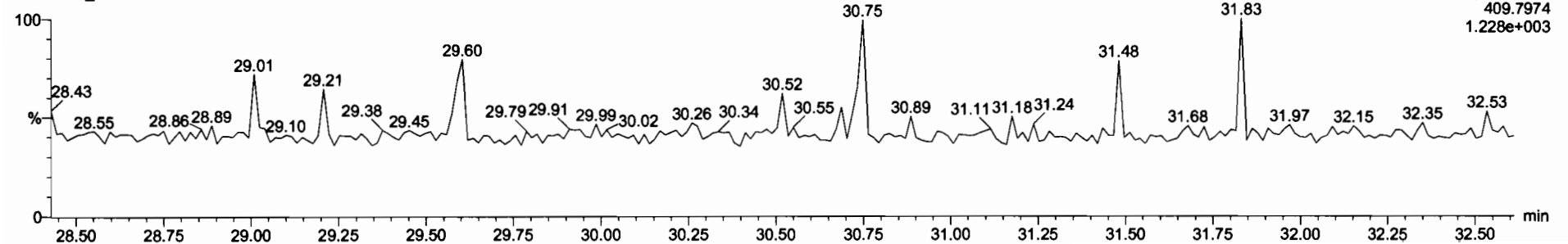


200601R3_13



DPE2

200601R3_13

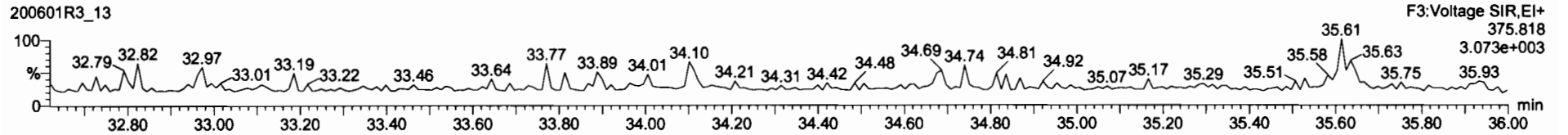
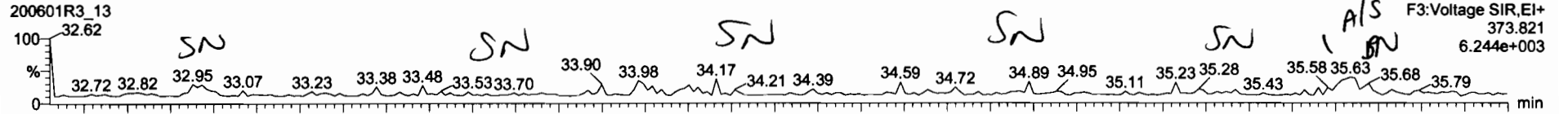


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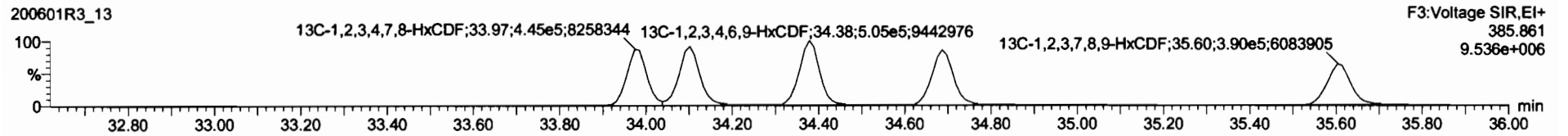
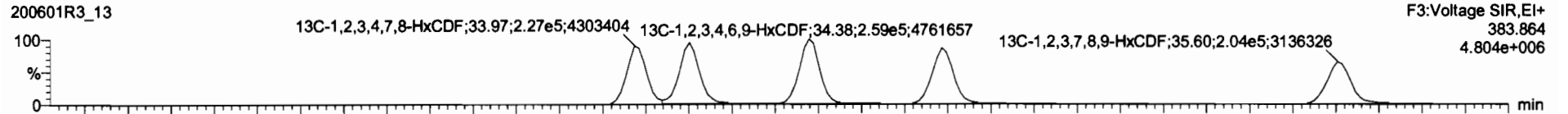
Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
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Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

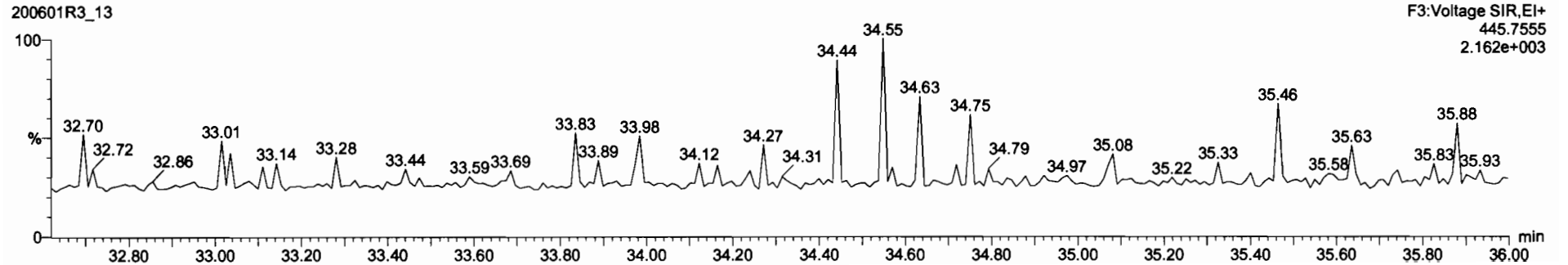
1,2,3,4,7,8-HxCDF



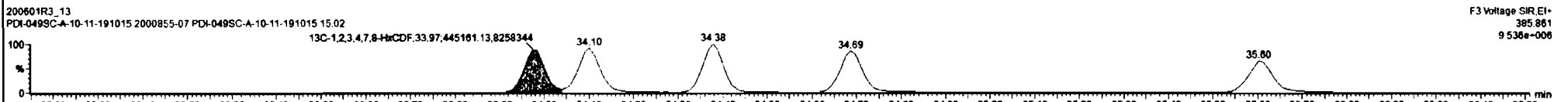
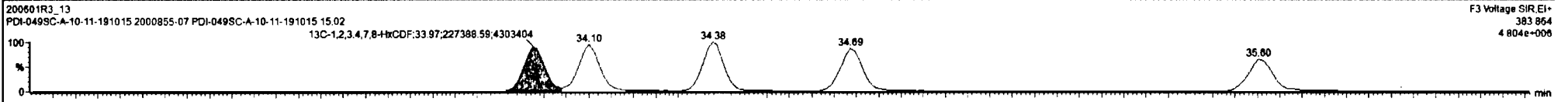
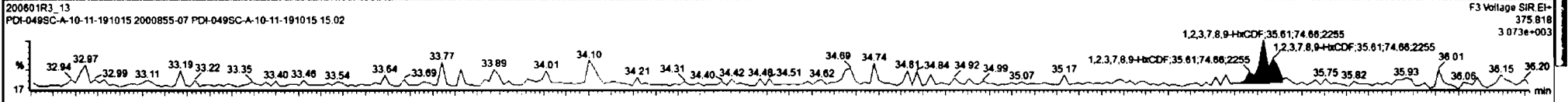
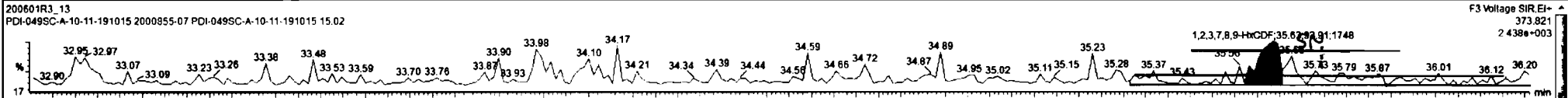
13C-1,2,3,4,7,8-HxCDF



DPE3



CONC	AMOUNT	GC	EMPC
13C-1,2,3,4,6,8-HxCDF	7.64e5	0.51	NO
Total Tetra-Dioxins	0.0083	10.013	34.36
Total Penta-Dioxins	0.9081	10.013	1.000
Total Hexa-Dioxins	0.8623	10.013	200
Total Hepta-Dioxins	0.8639	10.013	100
Total Tetra-Furans	0.7510	10.013	0.431
1st Func. Penta-Furans	0.8825	10.013	3.88
Total Penta-Furans	0.8825	10.013	0.6702
Total Hepta-Furans	0.8734	10.013	2.32
PPK1			0.193
PPK2			7.17
PPK3			14.7
PPK4			0.174
PPK5			14.7
DPE1			0.0212
DPE2			0.0780
DPE3			0.00834
DPE4			0.0261
DPE5			
DPE6			



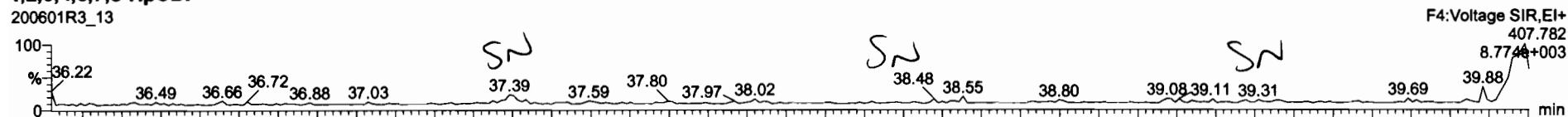
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

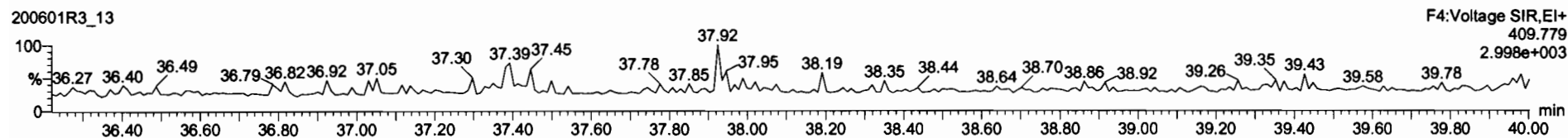
Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015

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

200601R3_13



200601R3_13

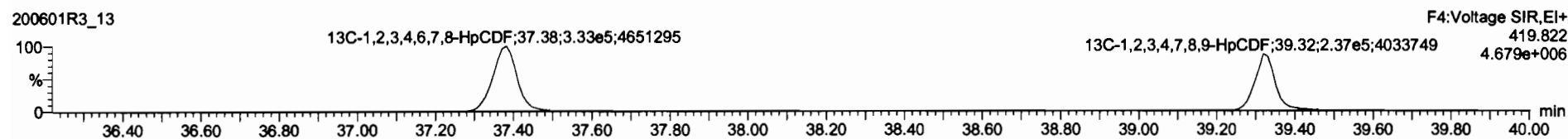


13C-1,2,3,4,6,7,8-HpCDF

200601R3_13

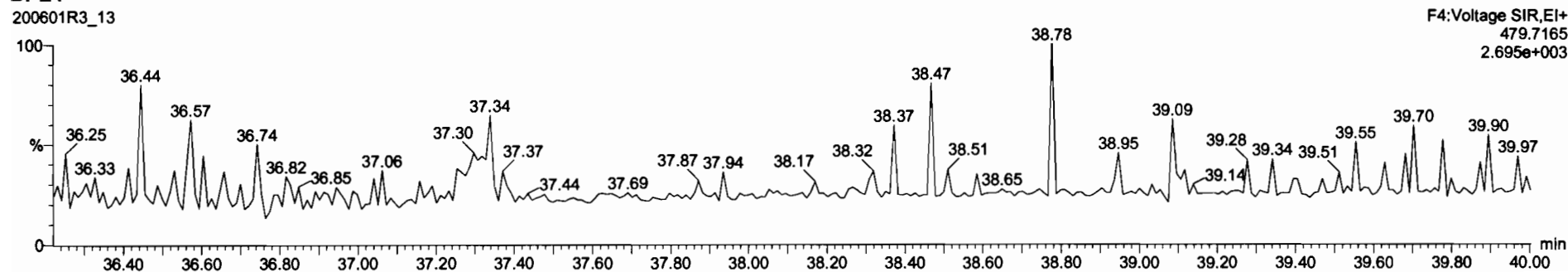


200601R3_13



DPE4

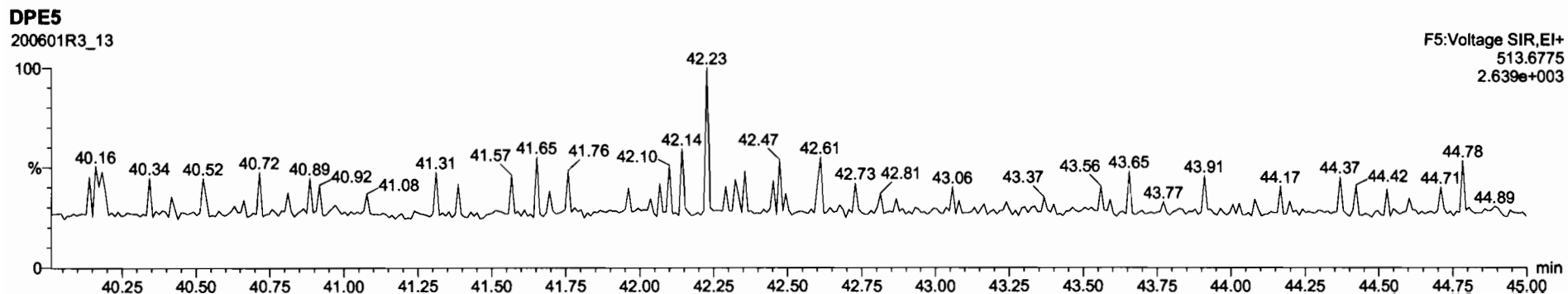
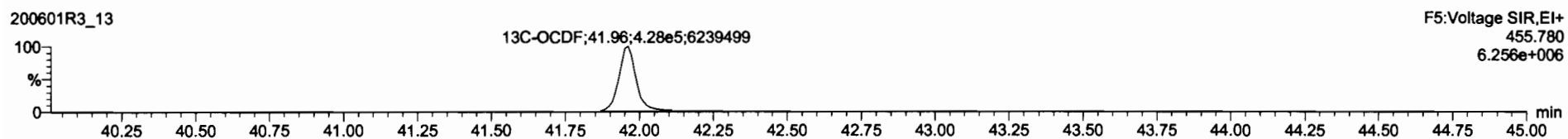
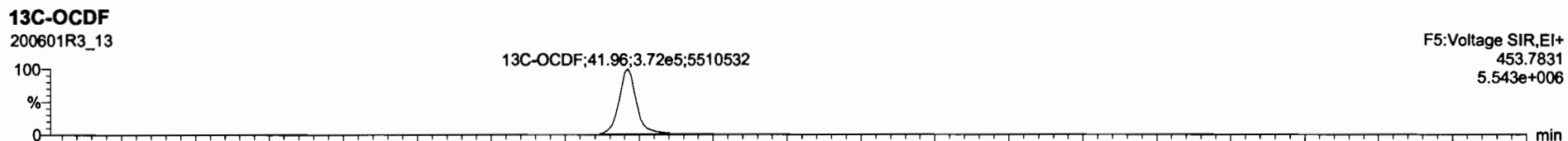
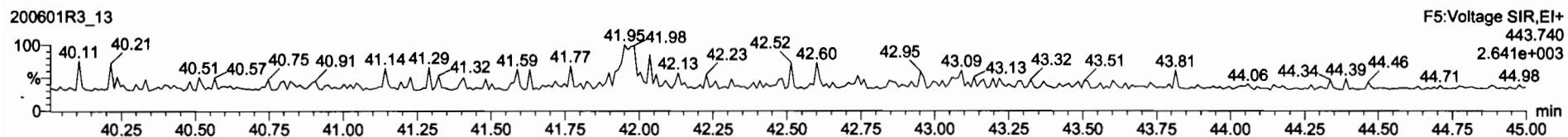
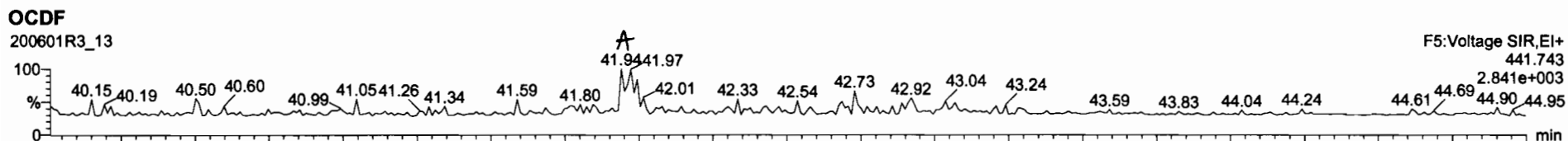
200601R3_13



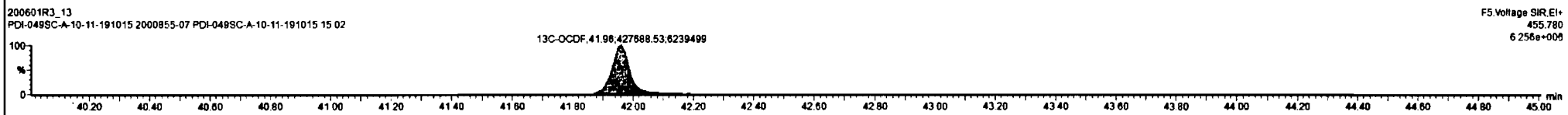
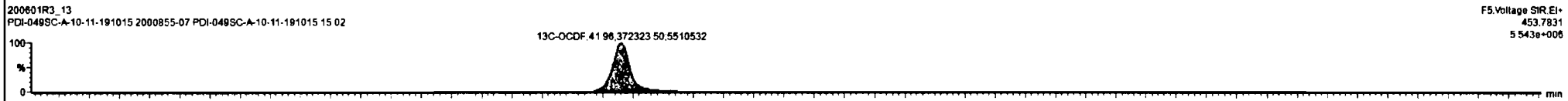
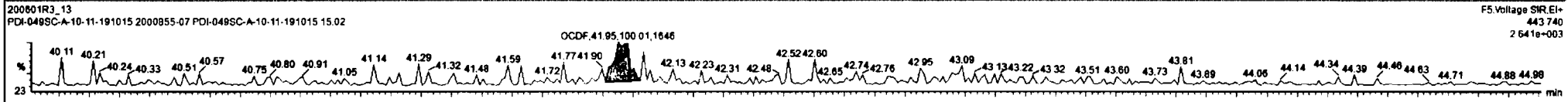
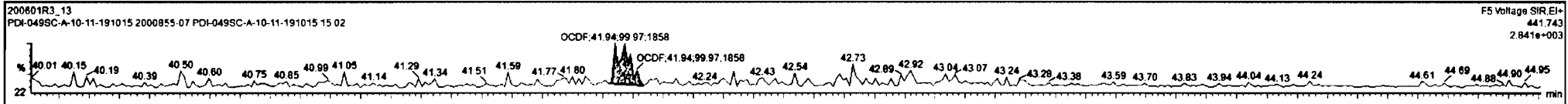
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015



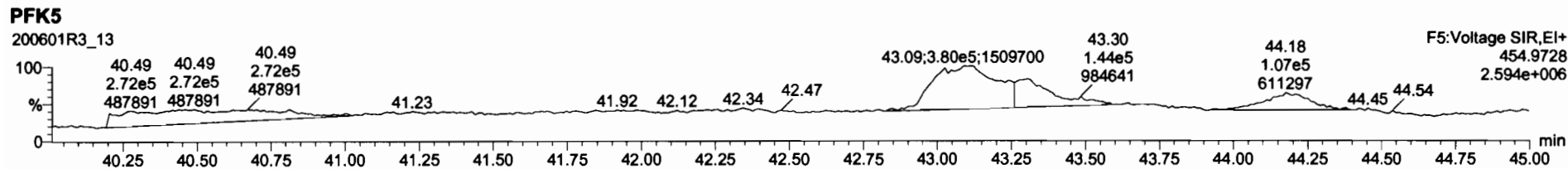
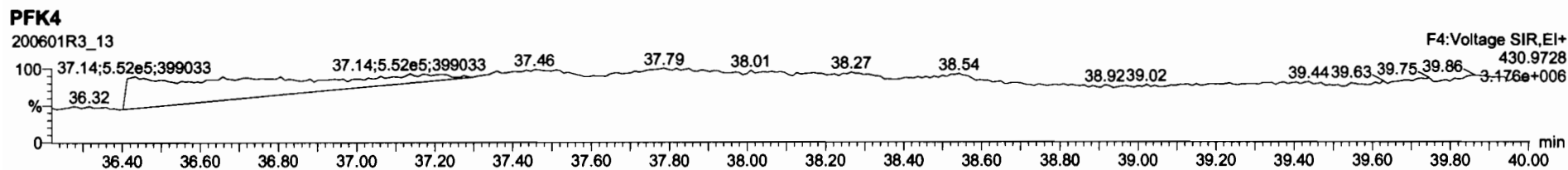
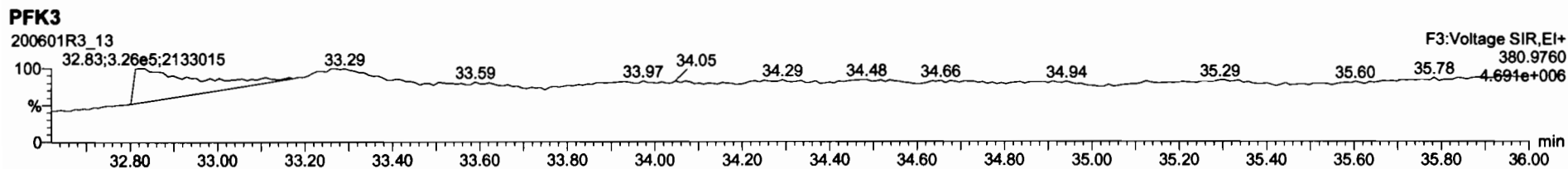
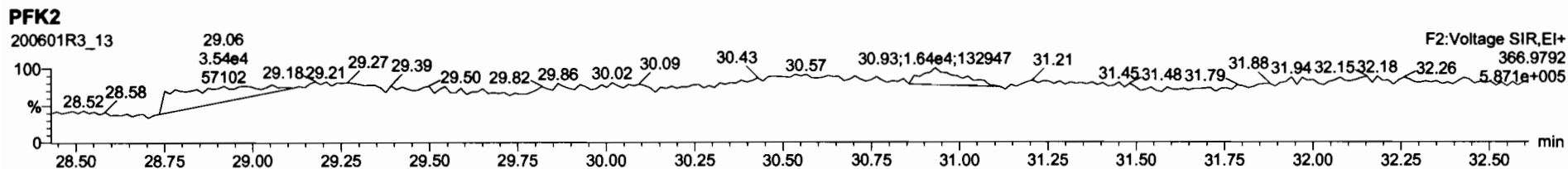
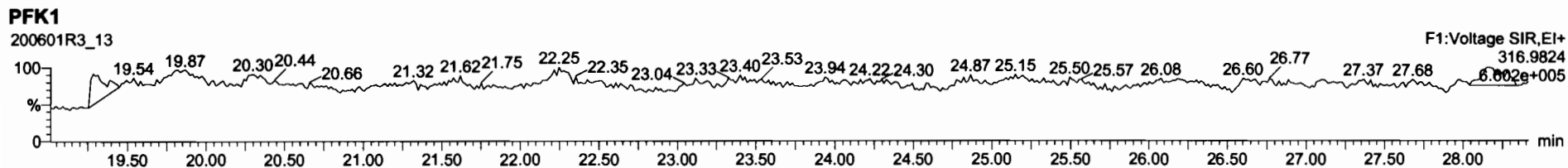
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13C-1,2,3,4,7,8-HxCDD	5.21e5	1.27	NO	0.7790	10.013	34.80	1.014	175	87.6	0.225
13C-1,2,3,6,7,8-HxCDD	6.26e5	1.21	NO	1.0167	10.013	34.96	1.017	181	80.6	0.172
13C-1,2,3,7,8,9-HxCDD	5.93e5	1.18	NO	0.9027	10.013	35.24	1.025	172	86.0	0.194
13C-1,2,3,4,6,7,8-HpCDD	4.17e5	1.07	NO	0.8862	10.013	36.78	1.126	158	79.2	0.300
13C-OCDD	6.66e5	0.91	NO	0.8521	10.013	41.77	1.215	268	67.1	0.474
13C-2,3,7,8-TCDF	1.25e6	0.78	NO	1.0590	10.013	25.63	0.991	167	93.7	0.231
13C-1,2,3,7,8-PeCDF	9.92e5	1.63	NO	0.8380	10.013	30.20	1.187	187	93.7	0.458
13C-1,2,3,4,7,8-HxCDF	9.82e5	1.81	NO	0.8166	10.013	31.18	1.205	190	95.2	0.468
13C-1,2,3,4,6,7,8-HpCDF	6.73e5	0.51	NO	1.0075	10.013	33.97	0.988	175	87.4	0.428
13C-1,2,3,8,7,8-HxCDF	7.32e5	0.51	NO	1.1670	10.013	34.10	0.992	164	82.2	0.370
13C-2,3,4,6,7,8-HpCDF	6.97e5	0.51	NO	1.0219	10.013	34.68	1.009	179	89.4	0.422
13C-1,2,3,7,8,9-HxCDF	5.94e5	0.52	NO	0.8585	10.013	35.60	1.036	181	90.6	0.502
13C-1,2,3,4,6,7,8-HpCDF	4.77e5	0.43	NO	0.7745	10.013	37.36	1.067	161	80.6	0.423
13C-1,2,3,4,7,8,9-HpCDF	3.41e5	0.44	NO	0.5210	10.013	39.33	1.144	171	85.8	0.629
13C-OCDF	8.09e5	0.87	NO	0.7457	10.013	41.96	1.221	261	70.3	0.286
37Cl-2,3,7,8-TCDD	3.64e5			1.0368	10.013	26.54	1.626	84.6	106	0.9679
13C-1,2,3,4-TCDD	8.29e5	0.81	NO	1.0060	10.013	25.87	1.000	200	100	0.289
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Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_13, Date: 02-Jun-2020, Time: 00:19:57, ID: 2000855-07 PDI-049SC-A-10-11-191015 15.02, Description: PDI-049SC-A-10-11-191015



Dataset: U:\VG12.PRO\Results\200601R3\200601R3-14.qld

Last Altered: Tuesday, June 02, 2020 12:17:09 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 12:18:00 PM Pacific Daylight Time

GRB 06/02/2020

CR 06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015

Peak	Retp	RA	n/y	RRF	w/vol	Prep. RT	RT	RRT	RRR	Conc	Conc	Conc	
1	2,3,7,8-TCDD		NO	0.888	10.079	26.546		1.001				0.0716	
2	1,2,3,7,8-PeCDD		NO	0.908	10.079	31.488		1.001				0.113	
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.079	34.857		1.000				0.102	
4	1,2,3,6,7,8-HxCDD		NO	0.892	10.079	34.953		1.000				0.100	
5	1,2,3,7,8,9-HxCDD		NO	0.887	10.079	35.241		1.000				0.105	
6	1,2,3,4,6,7,8-HpCDD	1.19e3	1.14	NO	0.864	10.079	38.789	38.78	1.000	1.000	0.70936	0.210	0.709
7	OCDD	1.00e4	0.93	NO	0.914	10.079	41.759	41.77	1.000	1.000	7.2472	0.174	7.25
8	2,3,7,8-TCDF		NO	0.751	10.079	25.641		1.001				0.0514	
9	1,2,3,7,8-PeCDF		NO	0.893	10.079	30.205		1.001				0.0479	
10	2,3,4,7,8-PeCDF		NO	0.935	10.079	31.192		1.001				0.0442	
11	1,2,3,4,7,8-HxCDF		NO	0.884	10.079	33.963		1.000				0.0453	
12	1,2,3,6,7,8-HxCDF		NO	0.889	10.079	34.101		1.000				0.0422	
13	2,3,4,6,7,8-HxCDF		NO	0.934	10.079	34.712		1.001				0.0416	
14	1,2,3,7,8,9-HxCDF	5.42e1	0.89	YES	0.871	10.079	35.592	35.60	1.000	1.000	0.023943	0.0254	0.0204
15	1,2,3,4,6,7,8-HpCDF		NO	0.873	10.079	37.408		1.001				0.0676	
16	1,2,3,4,7,8,9-HpCDF		NO	1.01	10.079	39.310		1.000				0.0678	
17	OCDF		NO	0.806	10.079	41.951		1.000				0.0884	
18	13C-2,3,7,8-TCDD	7.14e5	0.79	NO	1.16	10.079	26.538	26.51	1.026	1.025	152.86	77.0	0.230
19	13C-1,2,3,7,8-PeCDD	5.35e5	0.63	NO	0.849	10.079	31.729	31.47	1.227	1.217	156.00	78.6	0.237
20	13C-1,2,3,4,7,8-HxCDD	4.37e5	1.29	NO	0.779	10.079	34.853	34.85	1.014	1.014	155.81	78.5	0.453
21	13C-1,2,3,6,7,8-HxCDD	5.36e5	1.29	NO	1.02	10.079	34.966	34.95	1.017	1.017	146.46	73.8	0.347
22	13C-1,2,3,7,8,9-HxCDD	5.46e5	1.29	NO	0.903	10.079	35.238	35.23	1.025	1.025	167.98	84.7	0.391
23	13C-1,2,3,4,6,7,8-HpCDD	3.84e5	1.10	NO	0.689	10.079	38.764	38.78	1.128	1.128	154.58	77.9	0.373
24	13C-OCDD	6.00e5	0.95	NO	0.652	10.079	41.788	41.76	1.216	1.215	255.53	64.4	0.400
25	13C-2,3,7,8-TCDF	9.68e5	0.78	NO	1.06	10.079	25.578	25.61	0.989	0.991	143.50	72.3	0.257
26	13C-1,2,3,7,8-PeCDF	8.14e5	1.64	NO	0.838	10.079	30.111	30.18	1.165	1.167	152.49	76.8	0.534
27	13C-2,3,4,7,8-PeCDF	7.99e5	1.62	NO	0.817	10.079	31.065	31.16	1.202	1.205	153.55	77.4	0.548
28	13C-1,2,3,4,7,8-HxCDF	5.83e5	0.51	NO	1.01	10.079	33.983	33.96	0.989	0.988	160.57	80.9	0.516
29	13C-1,2,3,6,7,8-HxCDF	6.41e5	0.52	NO	1.17	10.079	34.107	34.09	0.992	0.992	152.45	76.8	0.445
30	13C-2,3,4,6,7,8-HxCDF	6.15e5	0.51	NO	1.02	10.079	34.681	34.68	1.009	1.009	167.09	84.2	0.508
31	13C-1,2,3,7,8,9-HxCDF	5.16e5	0.52	NO	0.860	10.079	35.581	35.59	1.035	1.036	166.71	84.0	0.604

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-14.qld

Last Altered: Tuesday, June 02, 2020 12:17:09 PM Pacific Daylight Time

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Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015

Peak	Ret	RA	Qty	RRF	Wt%	Conc	Conc	RF1	RF2	RF3	RF4	RF5	RF6	
32	13C-1,2,3,4,6,7,8-HpCDF	4.33e5	0.43	NO	0.774	10.079	37.331	37.37	1.086	1.087	155.37	78.3	0.364	
33	13C-1,2,3,4,7,8,9-HpCDF	3.05e5	0.42	NO	0.521	10.079	39.362	39.31	1.145	1.144	162.40	81.8	0.541	
34	13C-OCDF	7.43e5	0.92	NO	0.746	10.079	41.960	41.95	1.221	1.221	276.45	69.7	0.342	
35	37Cl-2,3,7,8-TCDD	2.92e5			1.04	10.079	26.569	26.53	1.028	1.026	69.677	87.8	0.0677	
36	13C-1,2,3,4-TCDD	8.01e5	0.79	NO	1.00	10.079	25.890	25.85	1.000	1.000	198.44	100	0.266	
37	13C-1,2,3,4-TCDF	1.26e6	0.80	NO	1.00	10.079	24.360	24.18	1.000	1.000	198.44	100	0.272	
38	13C-1,2,3,4,6,9-HxCDF	7.15e5	0.52	NO	1.00	10.079	34.420	34.37	1.000	1.000	198.44	100	0.519	
39	Total Tetra-Dioxins				0.888	10.079	24.620		0.000		0.49599		0.0716	0.496
40	Total Penta-Dioxins				0.908	10.079	29.960		0.000		0.00000		0.0439	0.267
41	Total Hexa-Dioxins				0.892	10.079	33.635		0.000		1.1685		0.107	1.17
42	Total Hepta-Dioxins				0.864	10.079	37.640		0.000		2.4342		0.210	2.43
43	Total Tetra-Furans				0.751	10.079	23.610		0.000		0.13063		0.0255	0.131
44	1st Func. Penta-Furans				0.893	10.079	27.580		0.000				0.0127	
45	Total Penta-Furans				0.893	10.079	29.275		0.000				0.0185	
46	Total Hexa-Furans				0.934	10.079	33.555		0.000		0.00000		0.0219	0.0547
47	Total Hepta-Furans				0.873	10.079	37.835		0.000				0.0427	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-14.qld

Last Altered: Tuesday, June 02, 2020 12:17:09 PM Pacific Daylight Time

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

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

Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Comp	EMPC	CL
Total Tetra-Dioxins	24.37	8.947e3	1.015e4	6.723e2	9.128e2	0.74	NO	1.585e3	0.49599	0.49599	0.0716

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Comp	EMPC	CL
Total Penta-Dioxins	29.25	2.271e3	3.079e3	1.075e2	1.471e2	0.73	YES	0.000e0	0.00000	0.097950	0.113
Total Penta-Dioxins	29.76	2.473e3	9.423e3	1.603e2	4.508e2	0.36	YES	0.000e0	0.00000	0.16947	0.113

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Comp	EMPC	CL
Total Hexa-Dioxins	33.35	2.191e4	1.894e4	1.053e3	8.949e2	1.18	NO	1.948e3	0.85498	0.85498	0.107
Total Hexa-Dioxins	34.17	7.404e3	6.077e3	4.027e2	3.116e2	1.29	NO	7.142e2	0.31353	0.31353	0.107

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Comp	EMPC	CL
Total Hepta-Dioxins	37.78	2.499e4	2.077e4	1.447e3	1.435e3	1.01	NO	2.882e3	1.7248	1.7248	0.210
1,2,3,4,6,7,8-HpCDD	38.78	1.146e4	1.008e4	6.320e2	5.531e2	1.14	NO	1.185e3	0.70936	0.70936	0.210

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Comp	EMPC	CL
Total Tetra-Furans	21.53	2.355e3	4.364e3	1.975e2	2.809e2	0.70	NO	4.784e2	0.13063	0.13063	0.0255

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	ny	Resp	Comp	EMPC	CL
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Dataset: U:\VG12.PRO\Results\200601R3\200601R3-14.qld

Last Altered: Tuesday, June 02, 2020 12:17:09 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 12:18:00 PM Pacific Daylight Time

Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	FW	Qty	Area	Conc	UCL	LCL
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	FW	Qty	Area	Conc	UCL	LCL
1,2,3,7,8,9-HxCDF	35.60	1.083e3	1.088e3	2.559e1	2.864e1	0.89	YES	5.423e1	0.00000	0.020412	0.0294
Total Hexa-Furans	35.61	2.237e3	1.880e3	6.640e1	4.240e1	1.57	YES	0.000e0	0.00000	0.034271	0.0219

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	FW	Qty	Area	Conc	UCL	LCL
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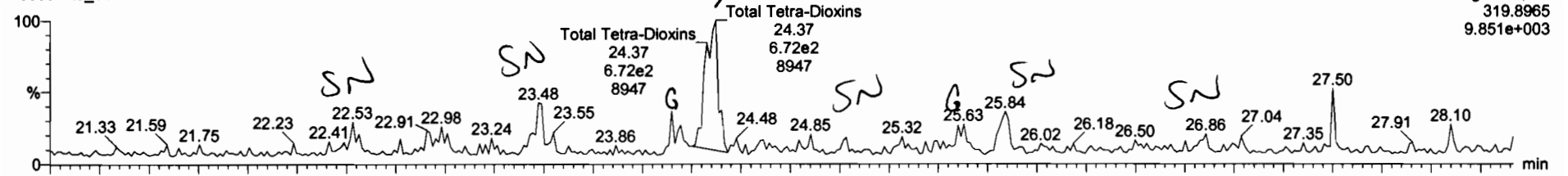
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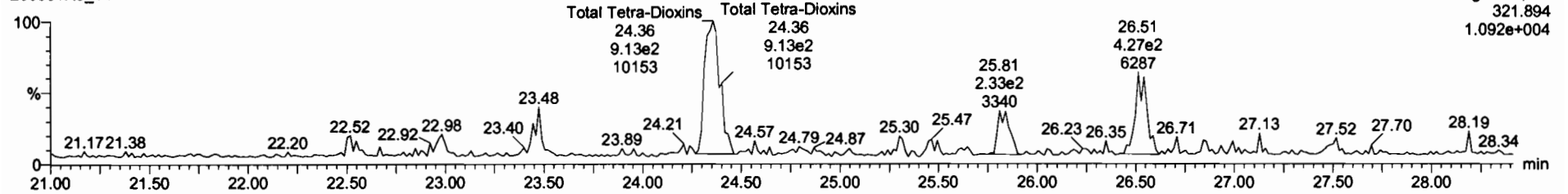
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2,3,7,8-TCDD

200601R3_14

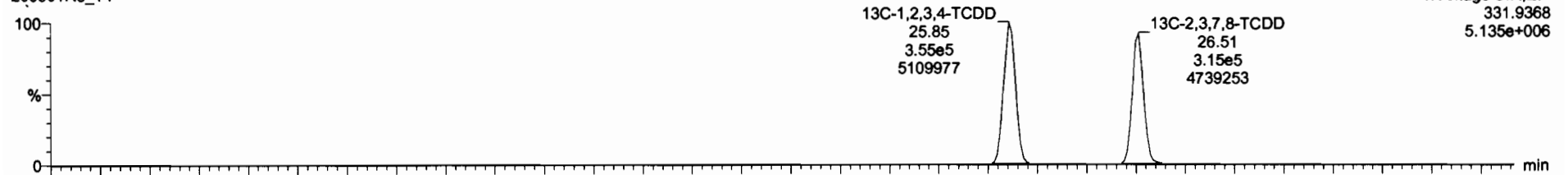


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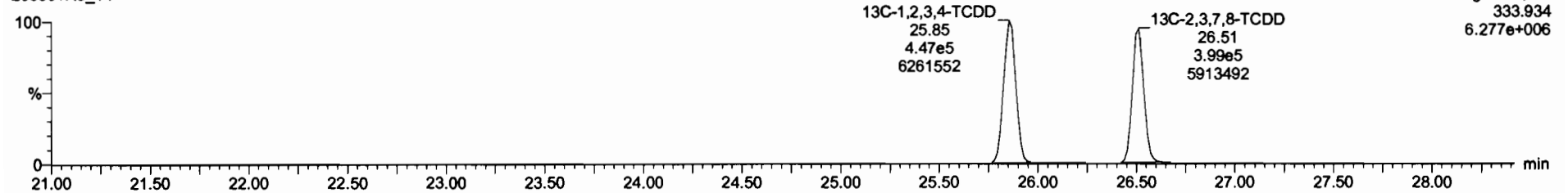


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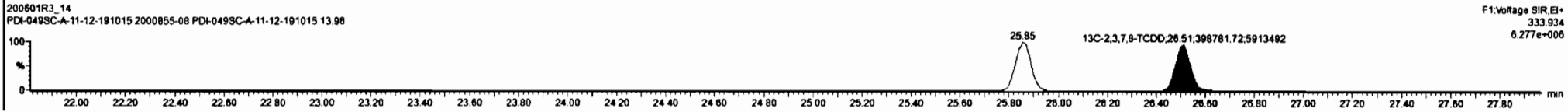
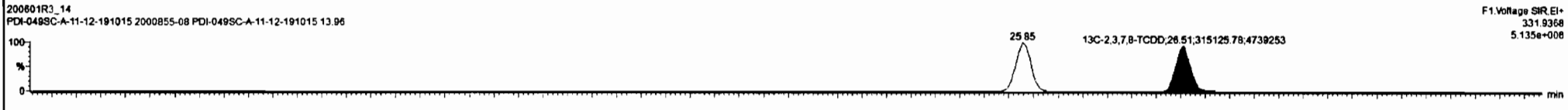
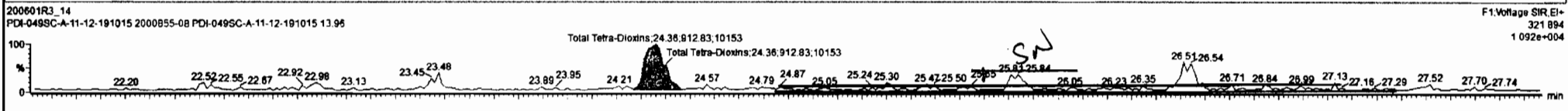
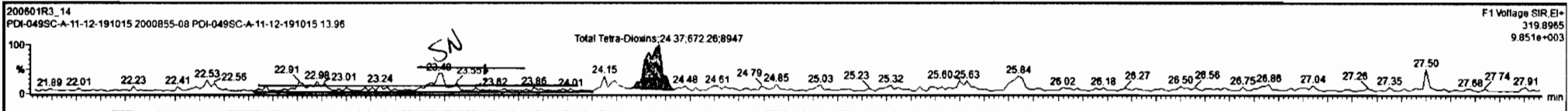
200601R3_14



200601R3_14



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Total Penta-Dioxins				0.9061	10.079			0.000		0.0439	0.267
Total Hexa-Dioxins				0.8623	10.079			1.17		0.107	1.17
Total Hepta-Dioxins				0.8639	10.079			2.43		0.210	2.43
Total Tetra-Furans				0.7510	10.079			0.131		0.0255	0.131
1st Func. Penta-Furans				0.8625	10.079					0.0127	
Total Penta-Furans				0.8625	10.079					0.0185	
Total Hexa-Furans				0.9341	10.079			0.000		0.0219	0.0550
Total Hepta-Furans				0.8734	10.079					0.0427	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
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DPE2											
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DPE6											



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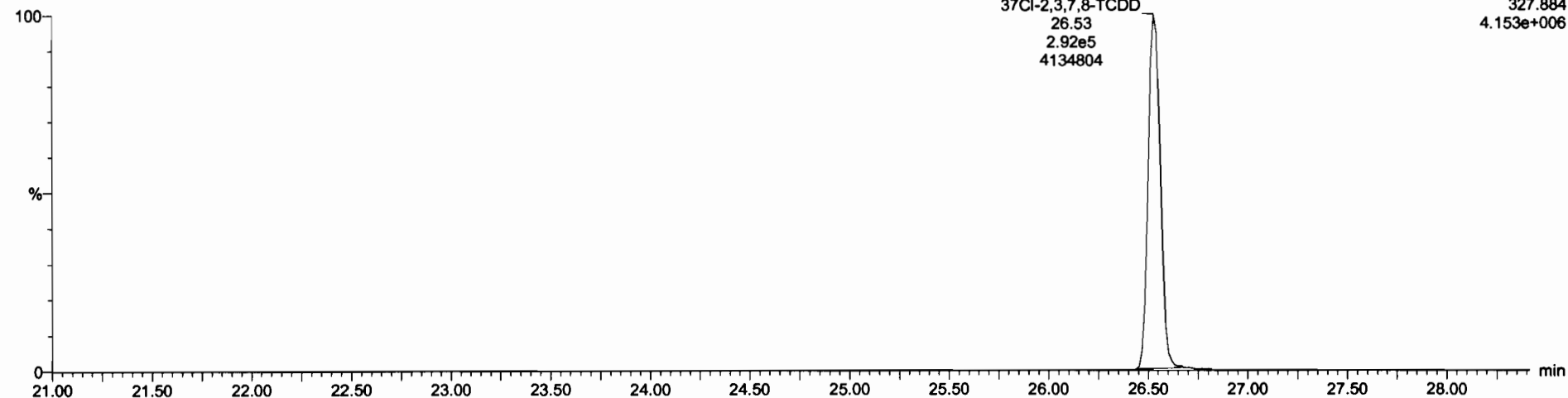
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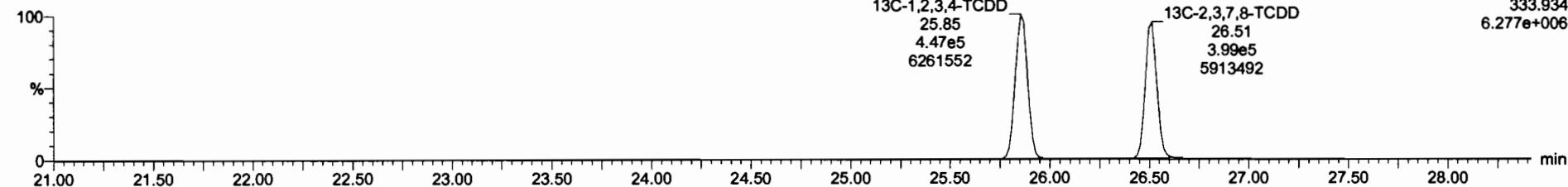


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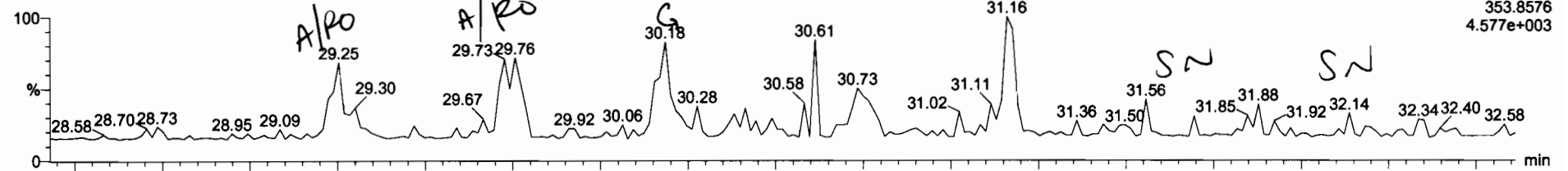
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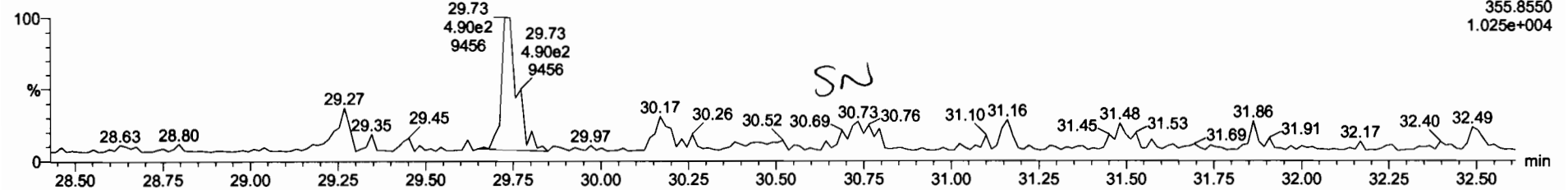
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1,2,3,7,8-PeCDD

200601R3_14

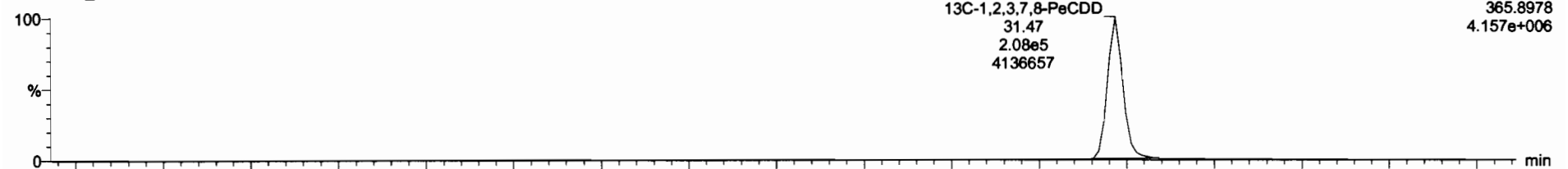


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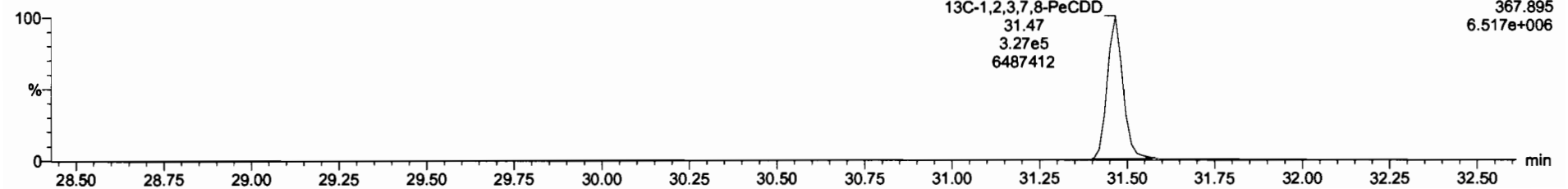


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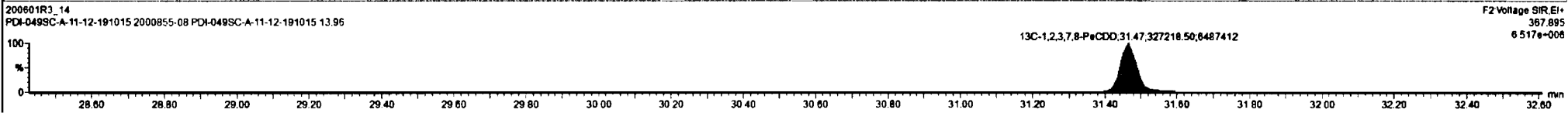
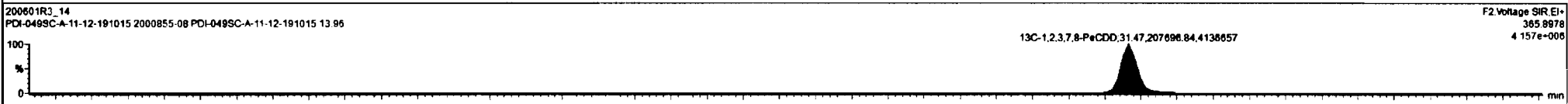
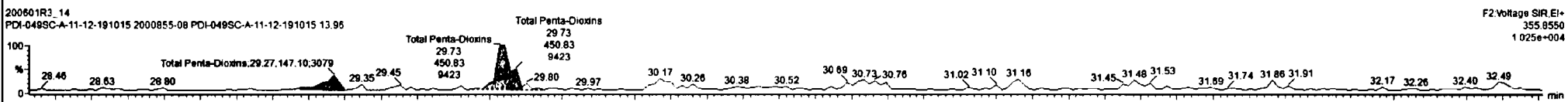
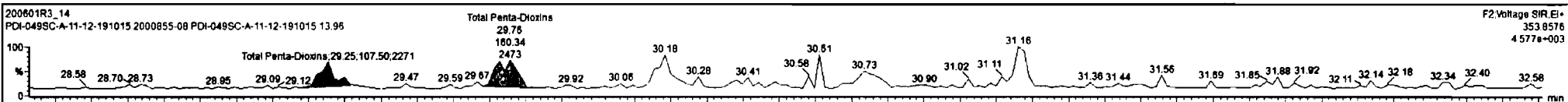
200601R3_14



200601R3_14



13C-1,2,3,4,6,8,9-HxCDF	7.15e5	0.51	NO	1.0000	10.079	34.37	1.000	198	100	0.519
Total Tetra-Dioxins				6.8883	10.079			0.498		0.8718 0.498
Total Hexa-Dioxins				0.8823	10.079			1.17		0.107 1.17
Total Hepta-Dioxins				0.8639	10.079			2.43		0.219 2.43
Total Tetra-Furans				0.7510	10.079			0.131		0.0255 0.131
1st Func. Penta-Furans				0.8825	10.079					0.0127
Total Penta-Furans				0.8825	10.079					0.0185
Total Hexa-Furans				0.9341	10.079			0.000		0.0219 0.0550
Total Hepta-Furans				0.8734	10.079					0.0427
FRK1										
FRK2										
FRK3										
FRK4										
FRK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



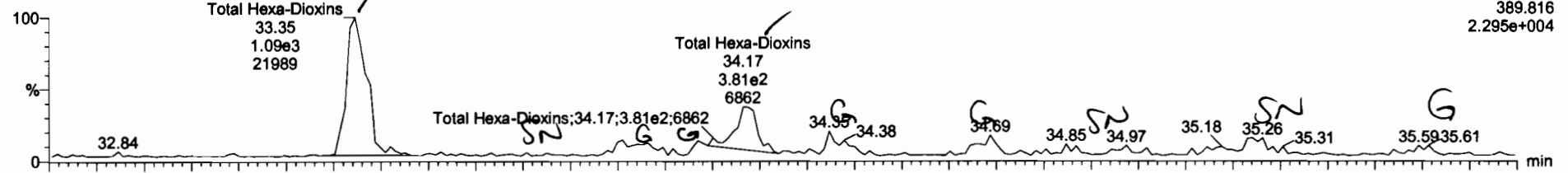
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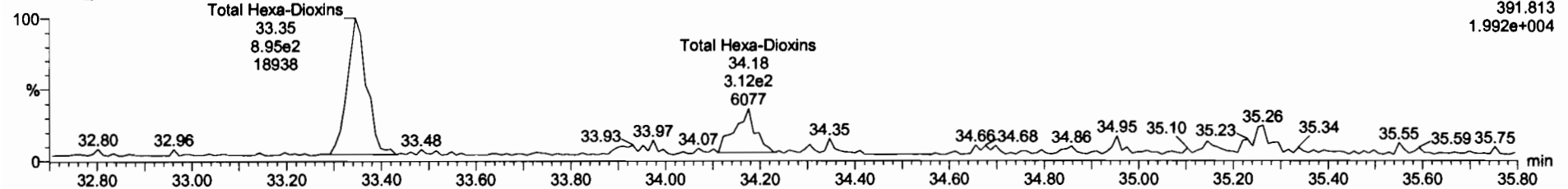
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1,2,3,4,7,8-HxCDD

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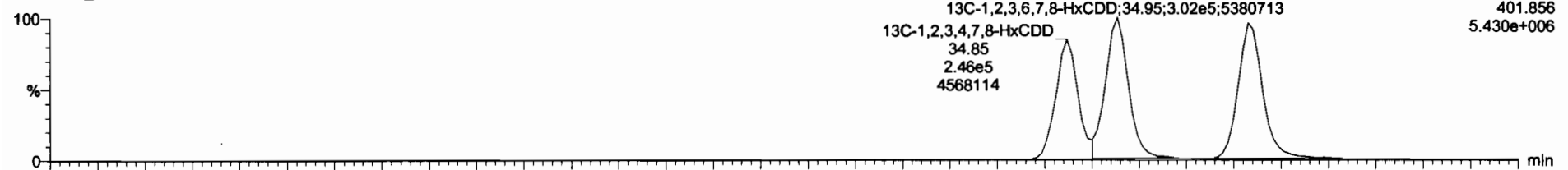


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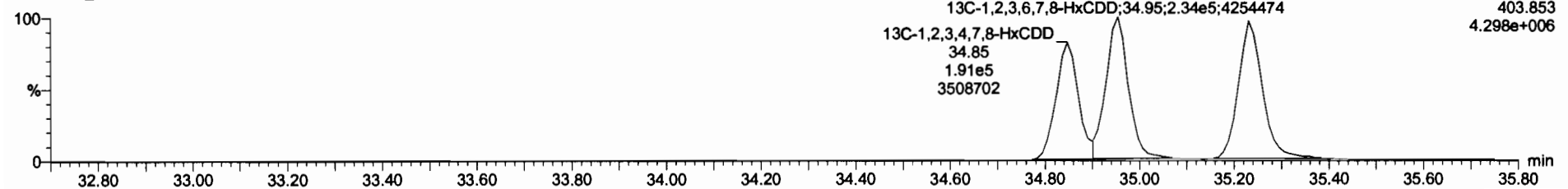


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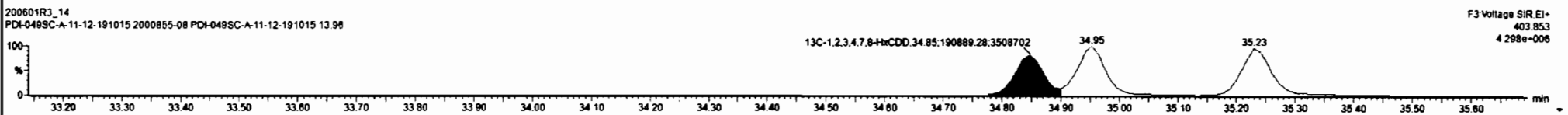
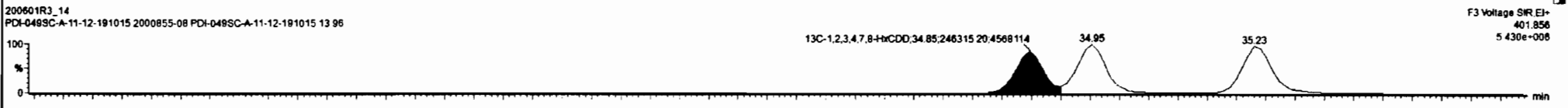
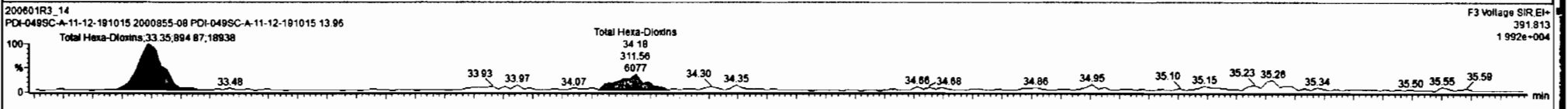
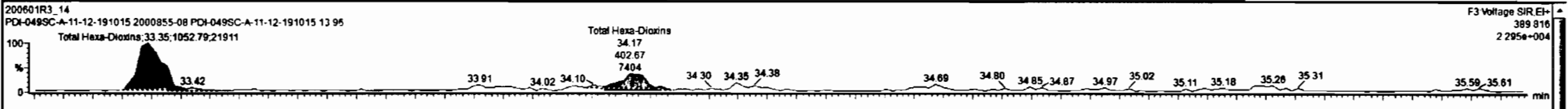
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13C-1,2,3,4,6,8-HxCDF	7.15e5	0.51	HO	1.0000	10.070	34.37	1.900	190	100	0.519
Total Tetra-Dioxins				0.8883	10.070			0.496		0.0716 0.496
Total Penta-Dioxins				0.9081	10.070			0.000		0.0439 0.267
Total Hepta-Dioxins				0.8839	10.070			2.43		0.210 2.43
Total Tetra-Furans				0.7510	10.070			0.131		0.0255 0.131
1st Func. Penta-Furans				0.8625	10.070					0.0127
Total Penta-Furans				0.8625	10.070					0.0185
Total Hexa-Furans				0.8341	10.070			0.000		0.0219 0.0560
Total Hepta-Furans				0.8734	10.070					0.0427
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
OPE1										
OPE2										
OPE3										
OPE4										
OPE5										
OPE6										



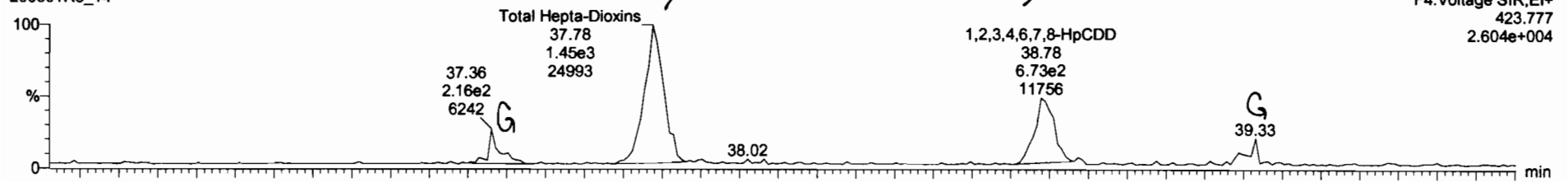
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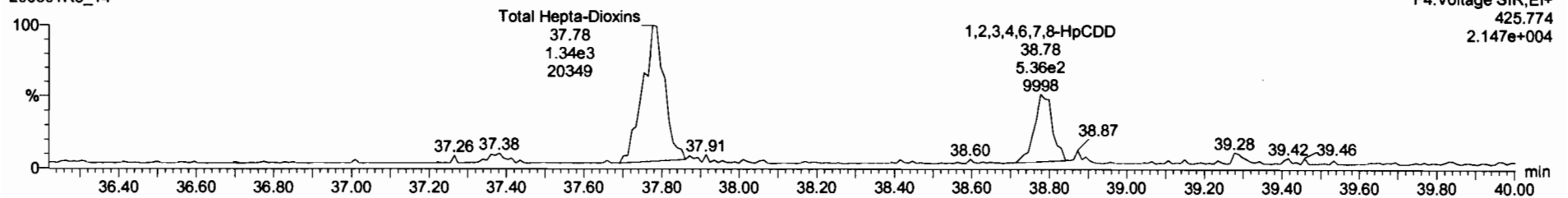
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1,2,3,4,6,7,8-HpCDD

200601R3_14

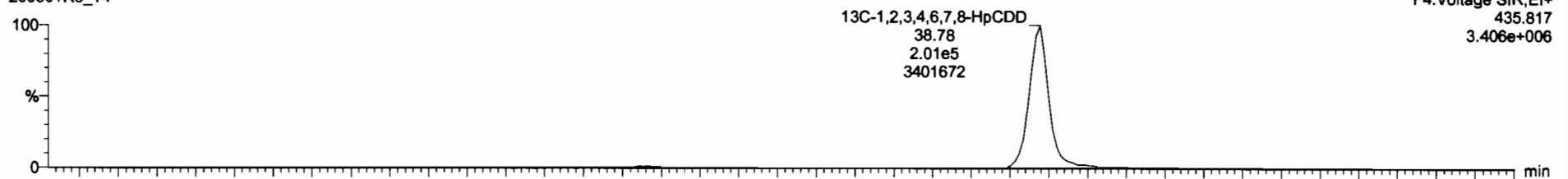


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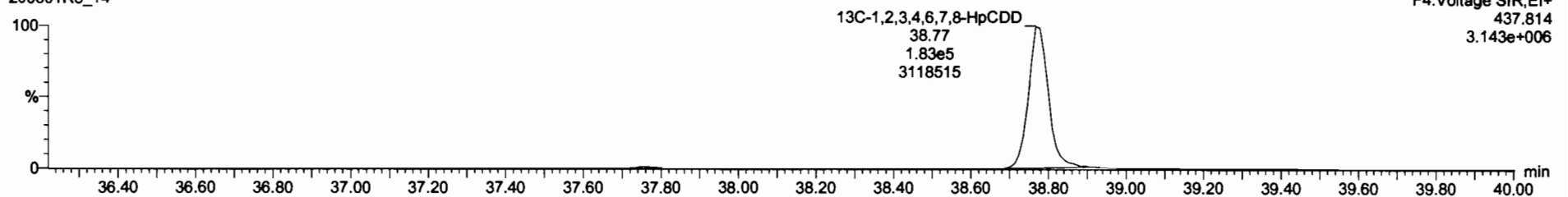


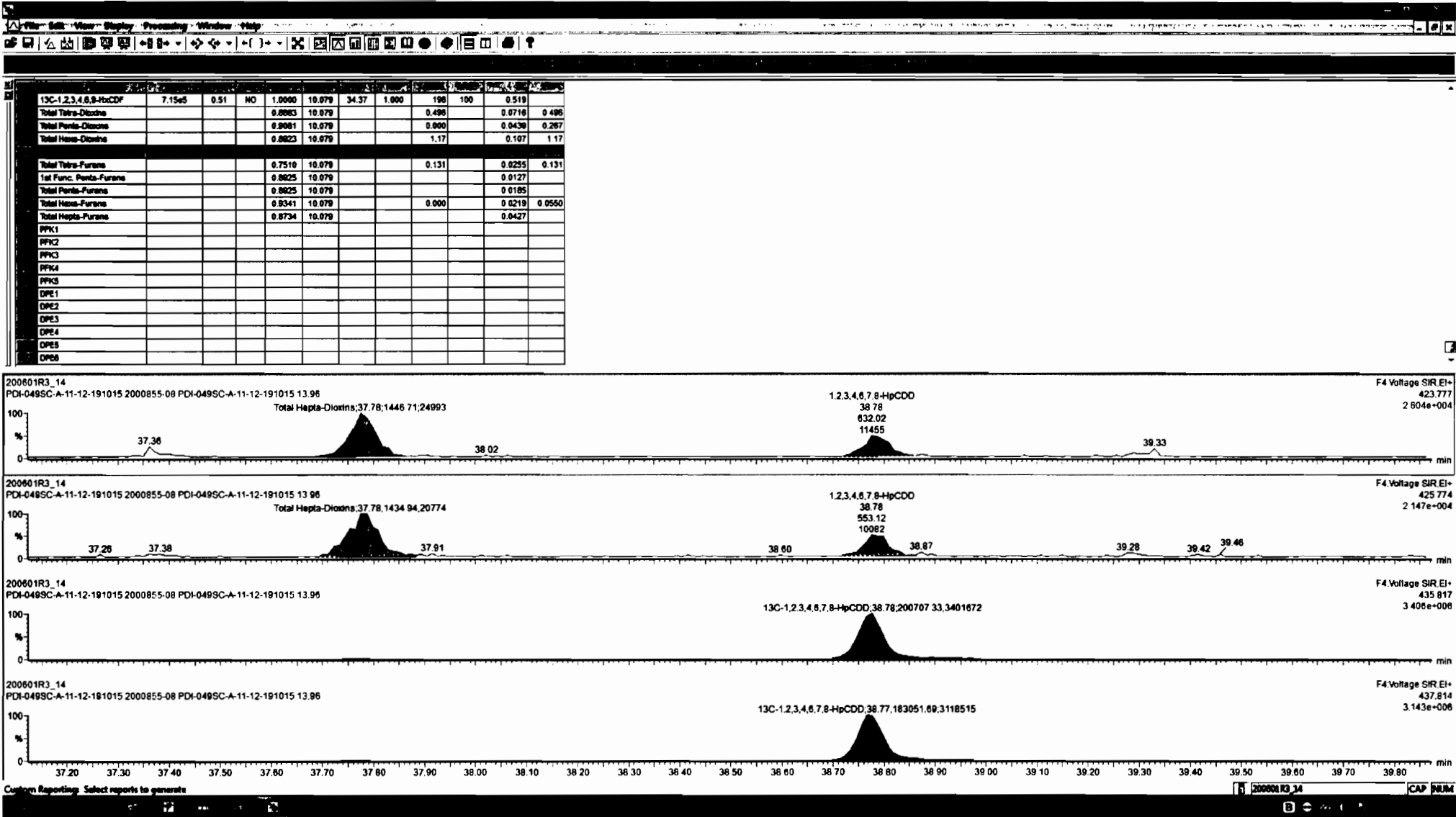
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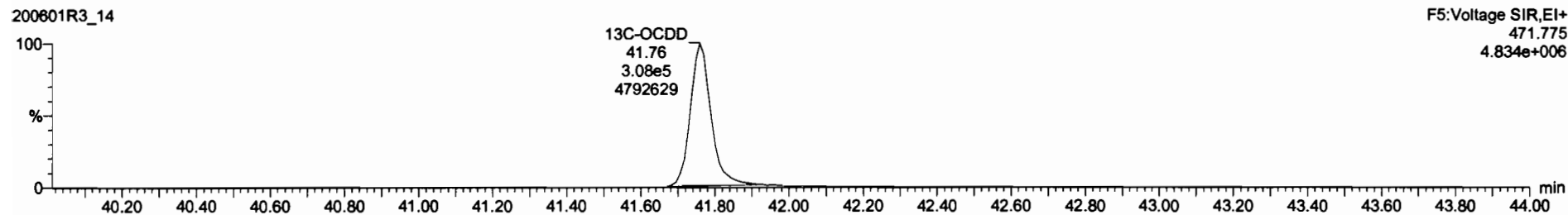
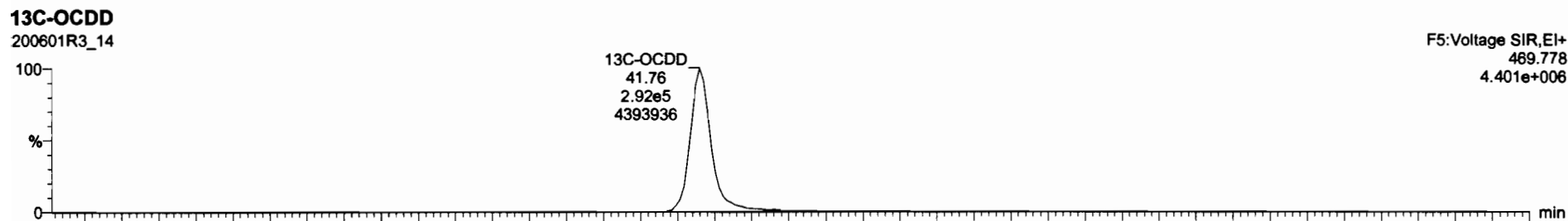
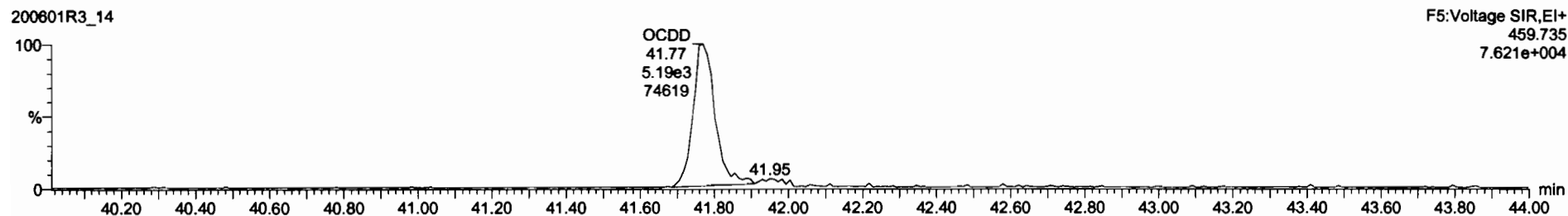
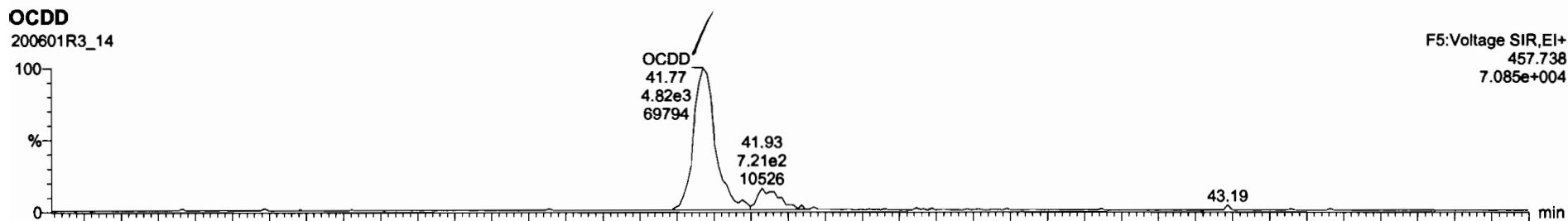




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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015

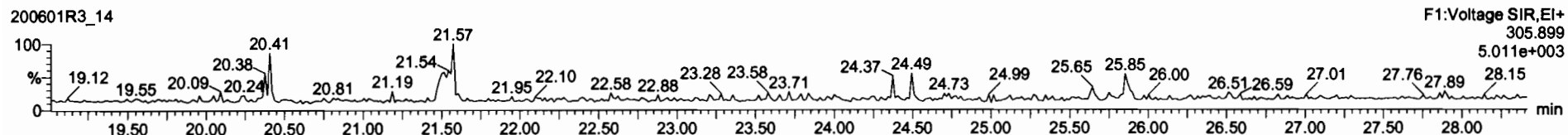
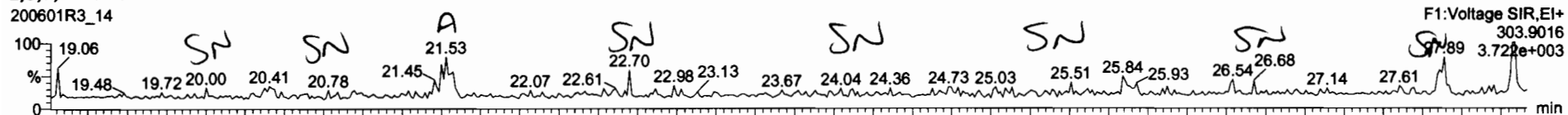


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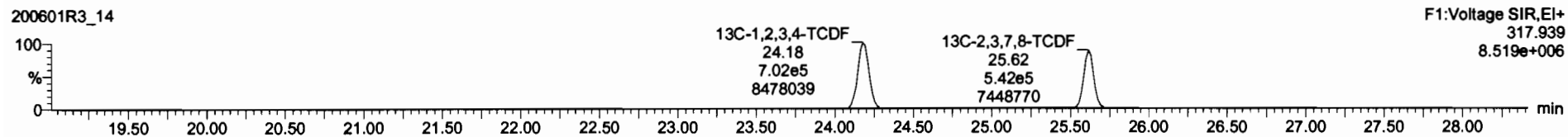
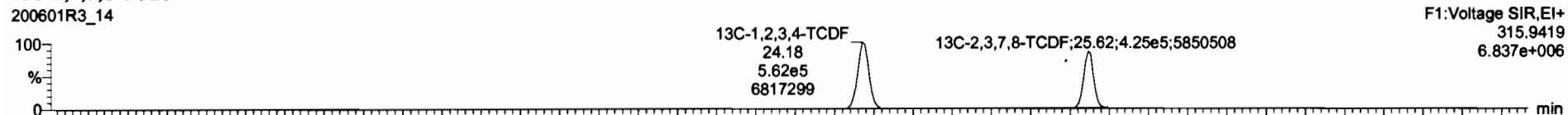
Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015

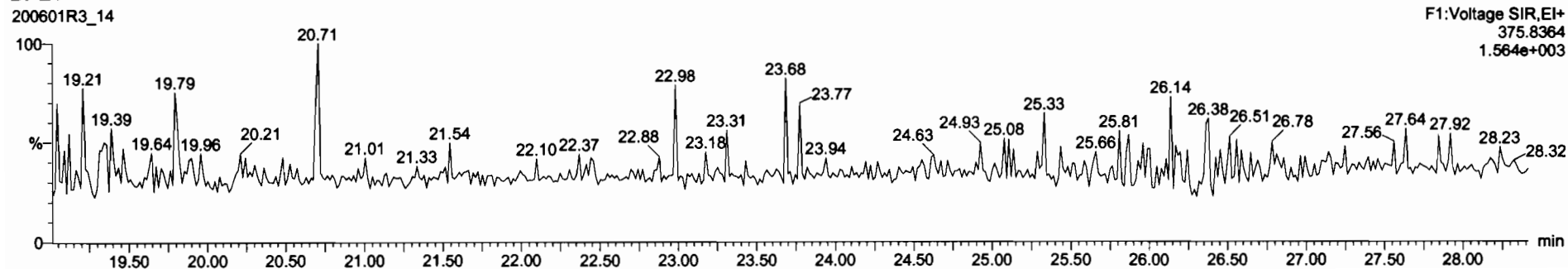
2,3,7,8-TCDF



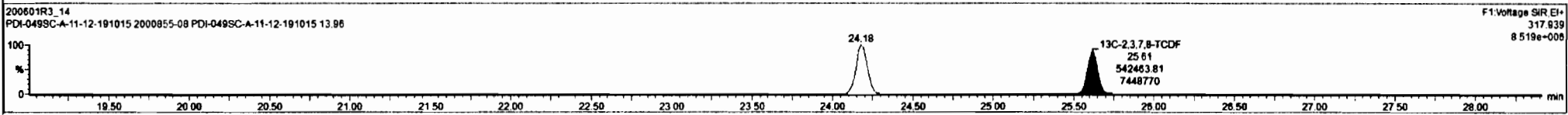
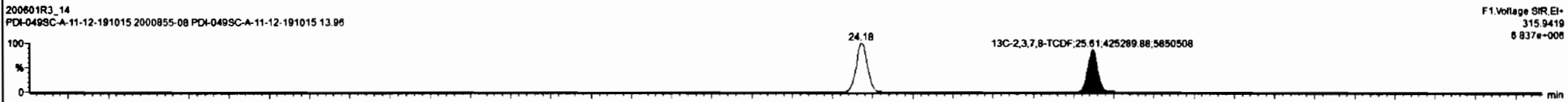
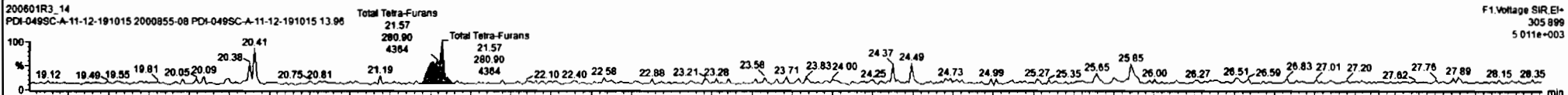
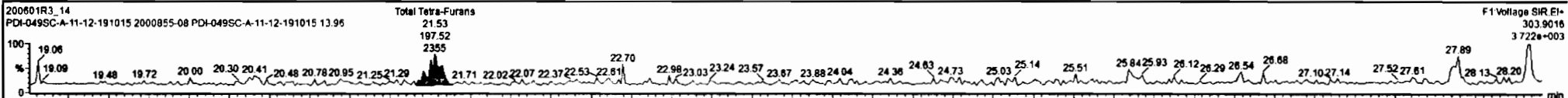
13C-2,3,7,8-TCDF



DPE1



13C-1,2,3,4,6,8-HxCDF	7.15e5	0.51	NO	1.0000	10.070	34.37	1.000	190	100	0.519
Total Tetra-Dioxins				0.8883	10.070			0.496		0.0718 0.486
Total Penta-Dioxins				0.9081	10.070			0.900		0.8439 0.267
Total Hexa-Dioxins				0.8623	10.070			1.17		0.107 1.17
Total Hepta-Dioxins				0.8639	10.070			2.43		0.210 2.43
1st Func. Penta-Furans				0.8825	10.070					0.0127
Total Penta-Furans				0.8825	10.070					0.0185
Total Hexa-Furans				0.9341	10.070			0.000		0.0219 0.0550
Total Hepta-Furans				0.8734	10.070					0.0427
PPK1										
PPK2										
PPK3										
PPK4										
PPK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



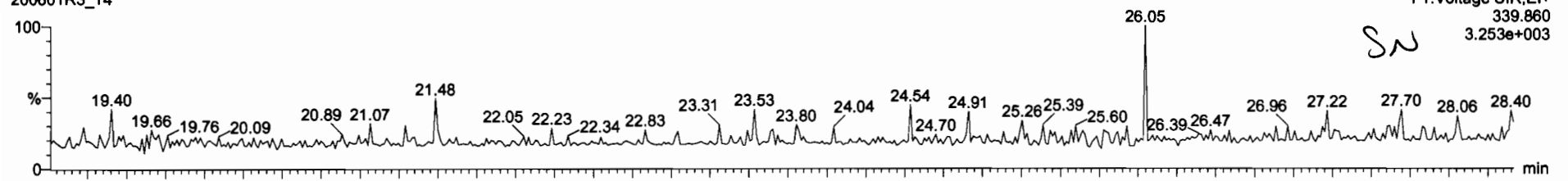
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

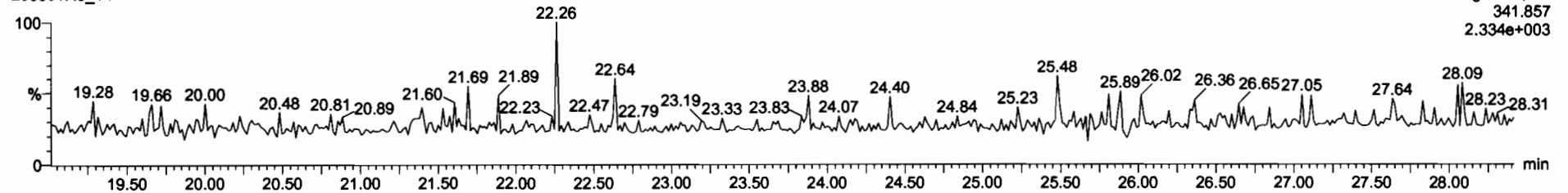
Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015

1st Func. Penta-Furans

200601R3_14

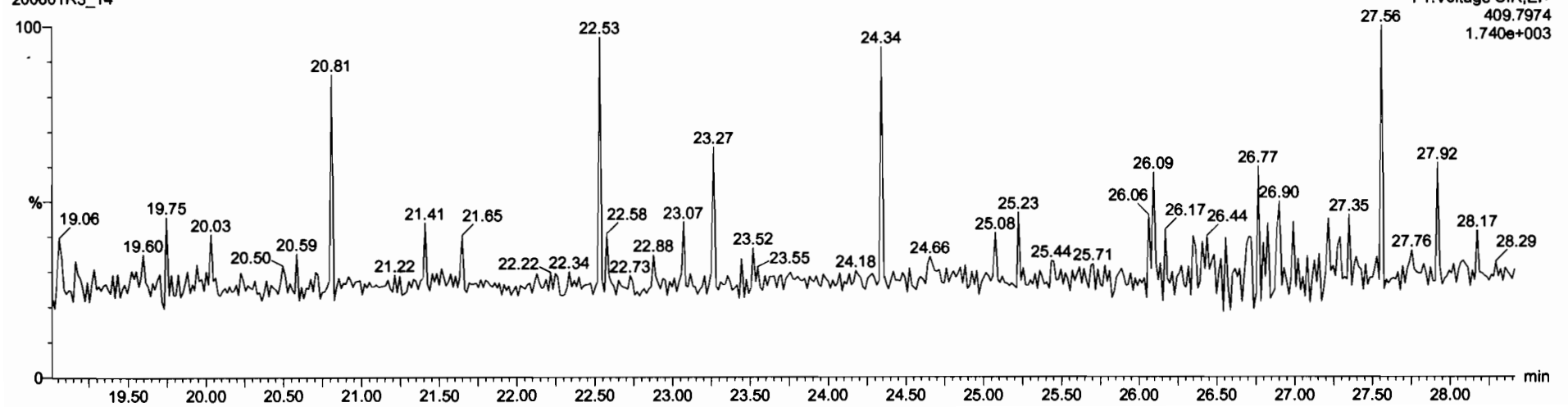


200601R3_14



DPE6

200601R3_14



Dataset: Untitled

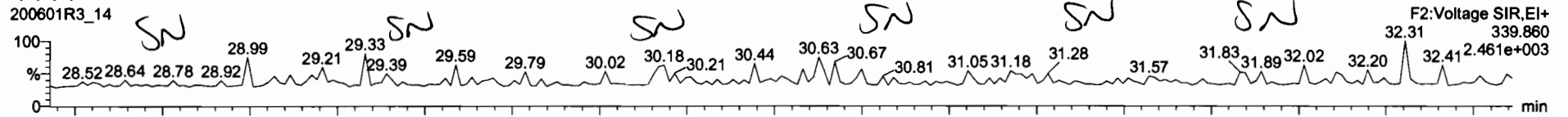
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

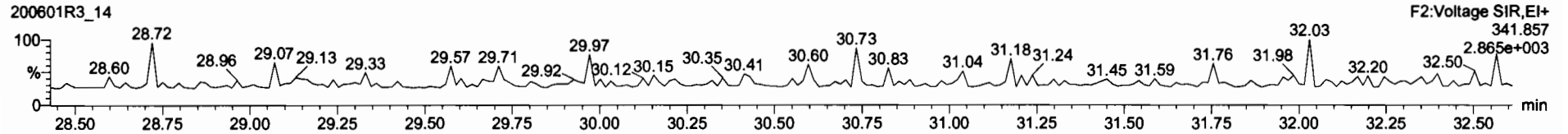
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1,2,3,7,8-PeCDF

200601R3_14

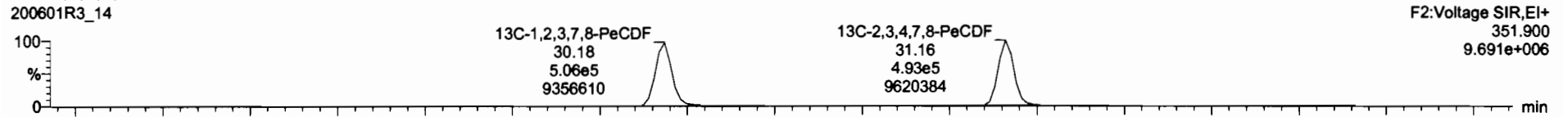


200601R3_14

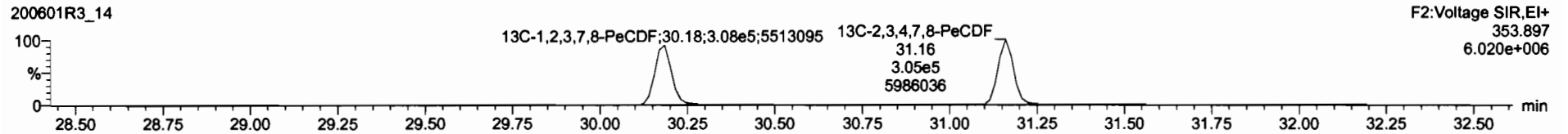


13C-1,2,3,7,8-PeCDF

200601R3_14

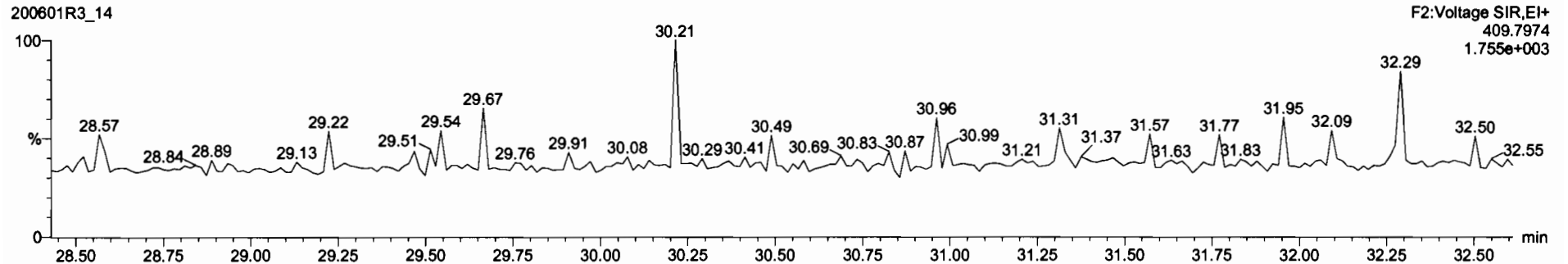


200601R3_14



DPE2

200601R3_14

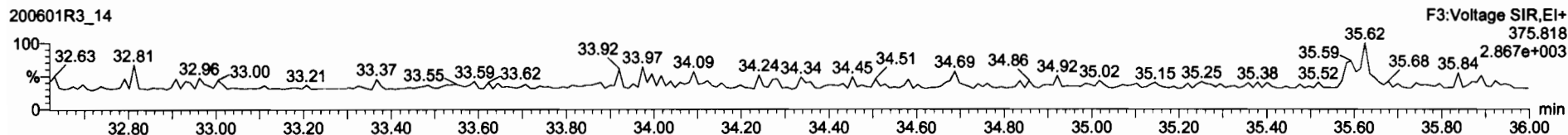
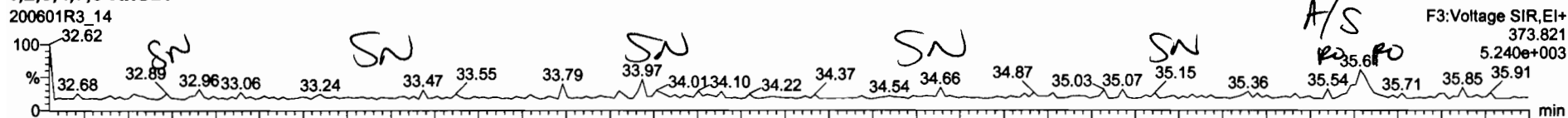


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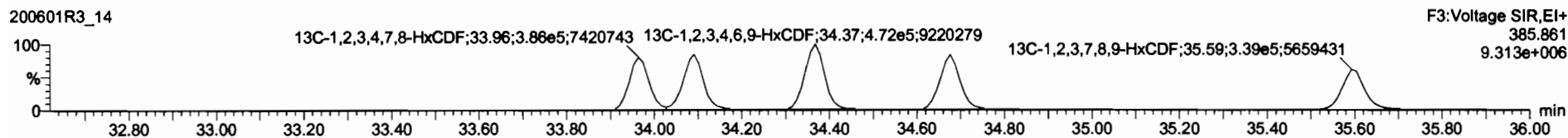
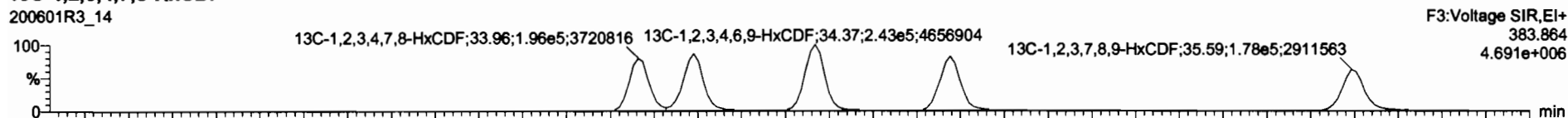
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015

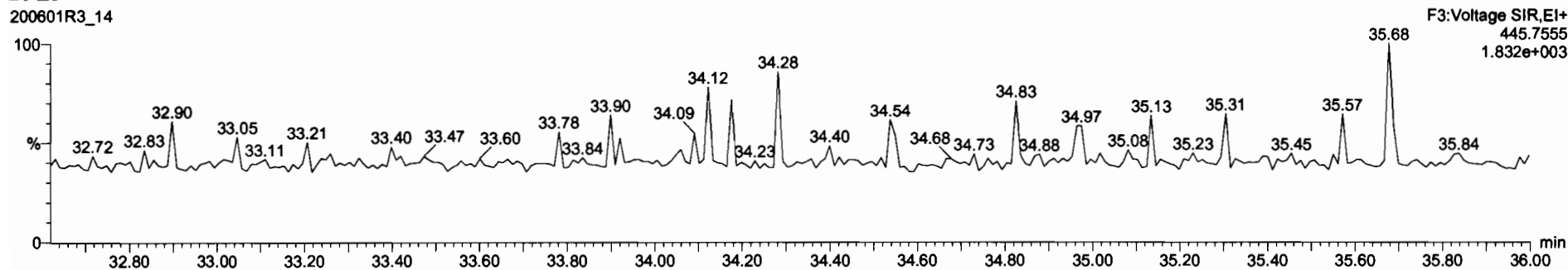
1,2,3,4,7,8-HxCDF



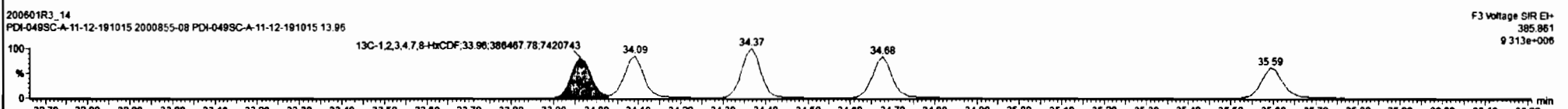
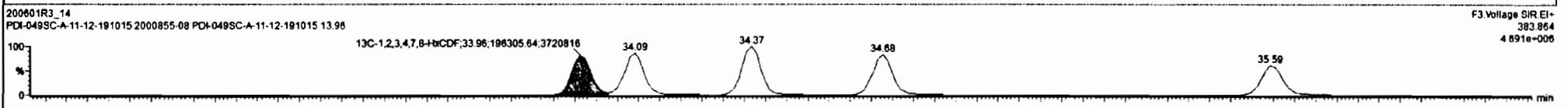
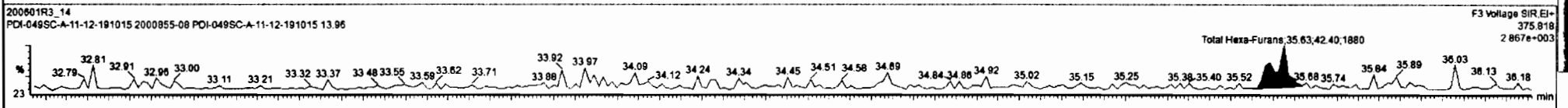
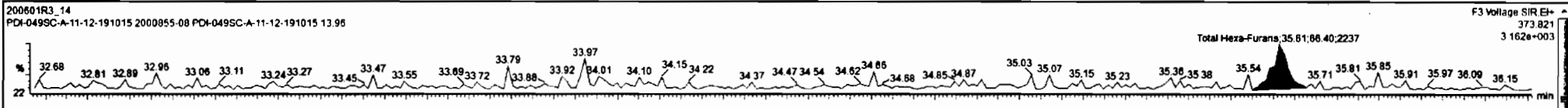
13C-1,2,3,4,7,8-HxCDF



DPE3



13C-1,2,3,4,6,8-HxCDF	7.15e5	0.51	NO	1.0000	10.079	34.37	1.000	190	100	0.519
Total Tetra-Dioxins				0.0083	10.079			0.496		0.9716
Total Penta-Dioxins				0.9081	10.079			0.0439		0.287
Total Hexa-Dioxins				0.0023	10.079			1.17		0.107
Total Hepta-Dioxins				0.0039	10.079			2.43		0.210
Total Tetra-Furans				0.7510	10.079			0.131		0.9255
1st Func. Penta-Furans				0.0025	10.079					0.0127
Total Penta-Furans				0.0025	10.079					0.0185
Total Hepta-Furans				0.0734	10.079					0.0427
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



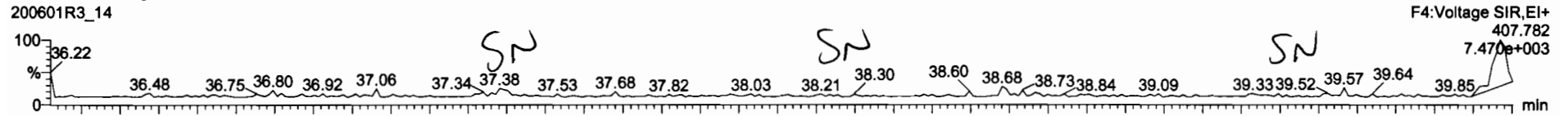
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
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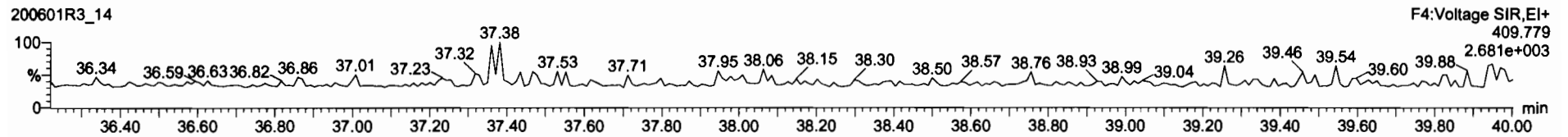
Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015

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

200601R3_14

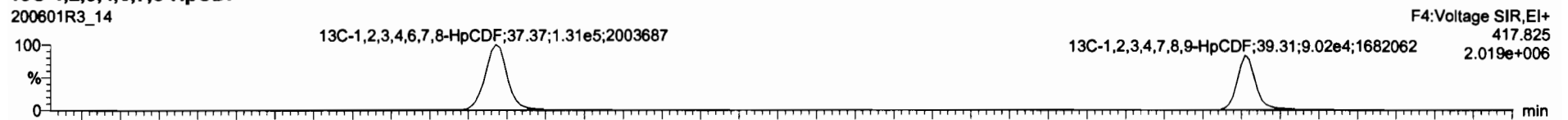


200601R3_14

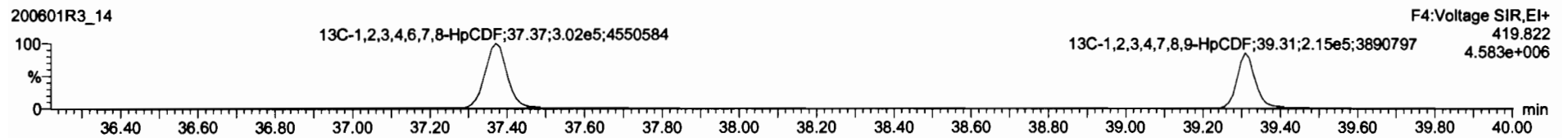


13C-1,2,3,4,6,7,8-HpCDF

200601R3_14

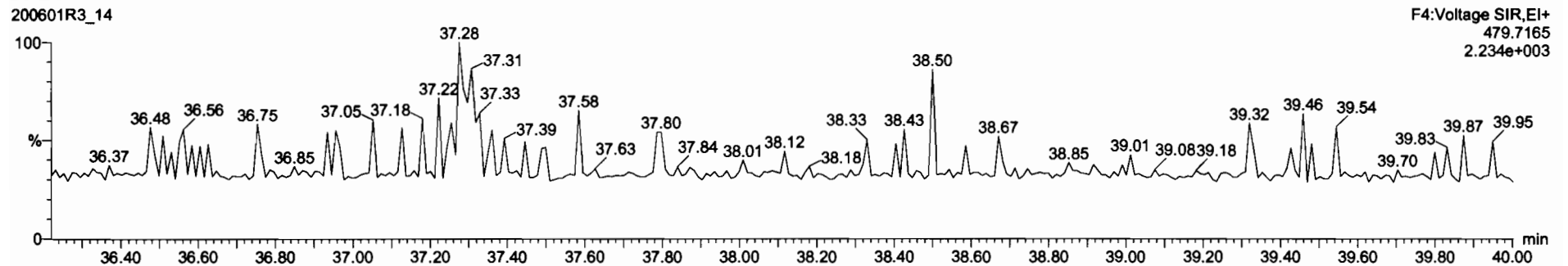


200601R3_14



DPE4

200601R3_14

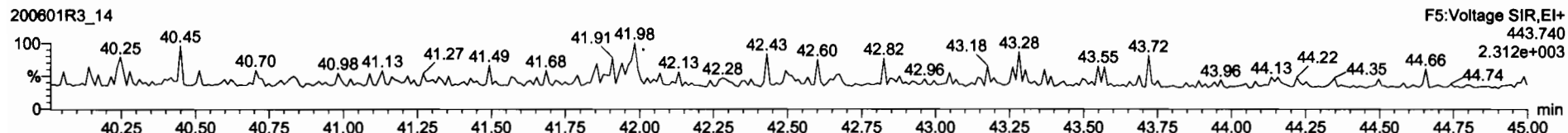
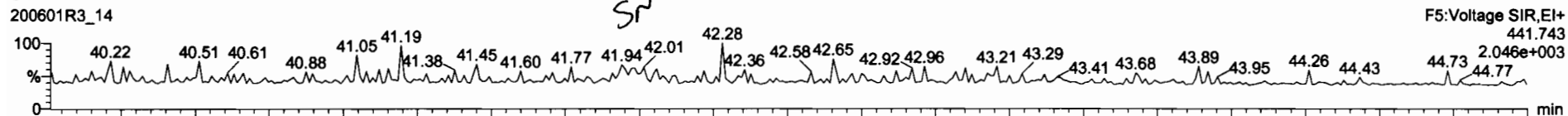


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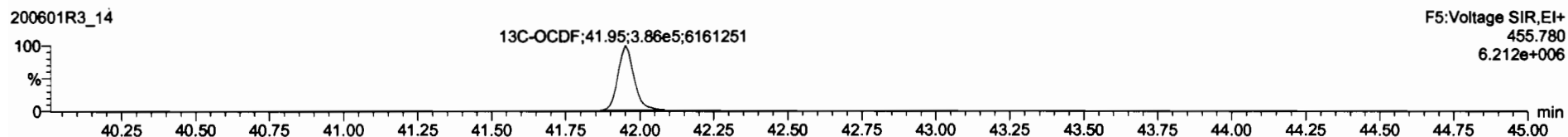
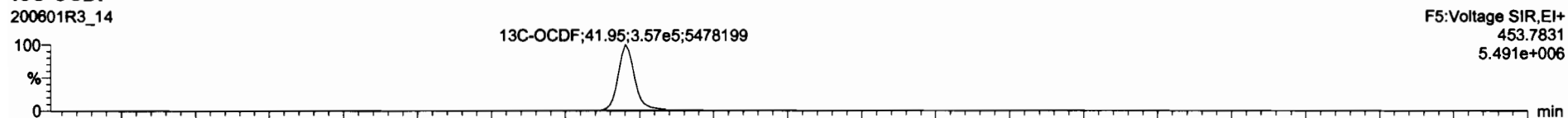
Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

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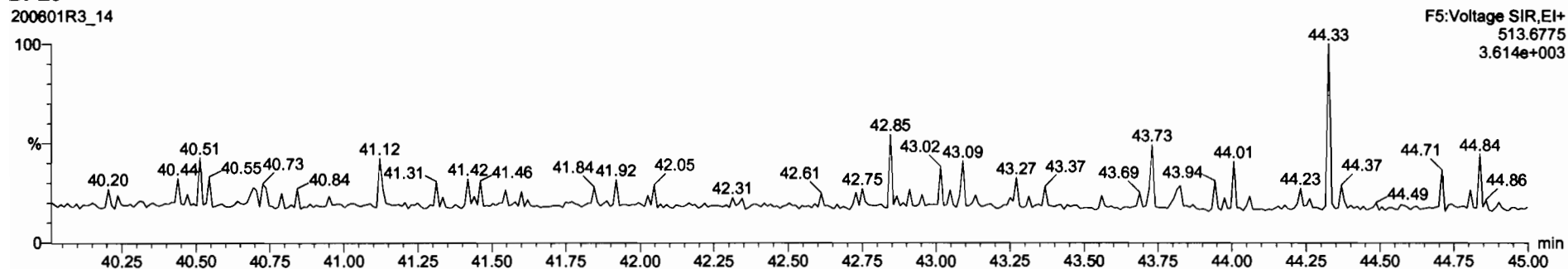
OCDF



13C-OCDF



DPE5

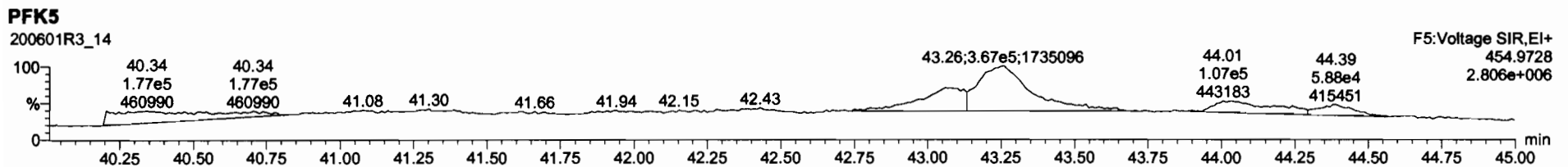
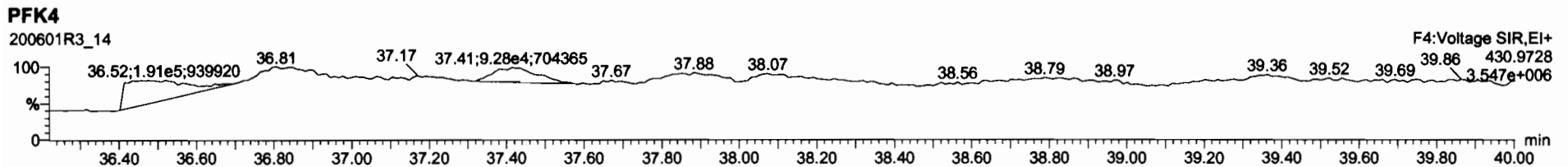
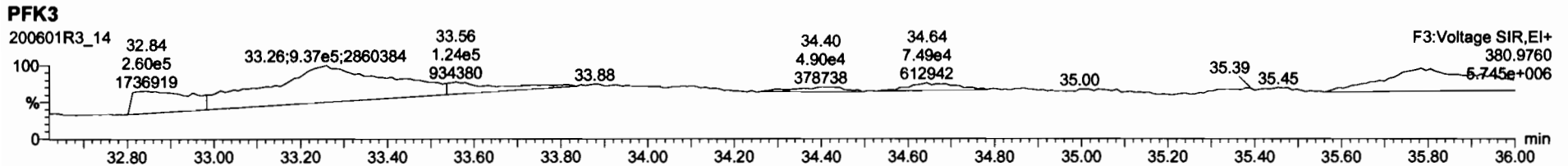
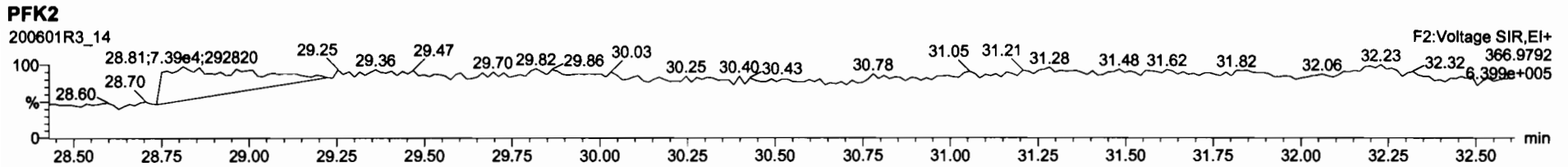
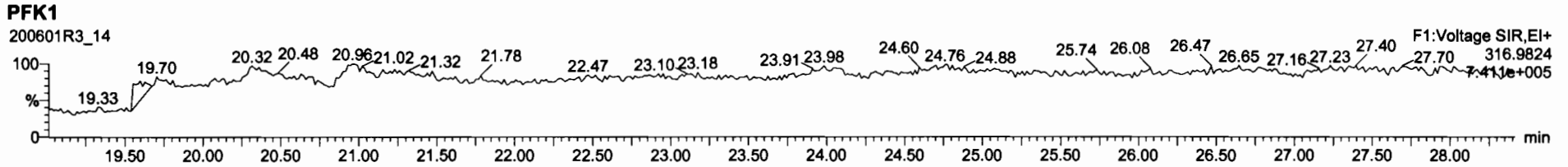


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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_14, Date: 02-Jun-2020, Time: 01:06:09, ID: 2000855-08 PDI-049SC-A-11-12-191015 13.96, Description: PDI-049SC-A-11-12-191015



Dataset: U:\VG12.PRO\Results\200601R3\200601R3-15.qld

Last Altered: Tuesday, June 02, 2020 12:24:36 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 12:25:28 PM Pacific Daylight Time

GPB 06/02/2020

CT 06/05/2020

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: 200601R3_15, Date: 02-Jun-2020, Time: 01:52:21, ID: 2000855-09 PDI-057SC-A-09-10-191023 13.78, Description: PDI-057SC-A-09-10-191023

Peak	RT	Area	Height	W	RRF	w/w0	Prod. R	RRF	RRF	RRF	RRF	RRF	RRF	
1	2,3,7,8-TCDD			NO	0.888	10.012	26.546		1.001				0.0724	
2	1,2,3,7,8-PeCDD			NO	0.908	10.012	31.503		1.001				0.0779	
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.012	34.868		1.000				0.113	
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.012	34.964		1.000				0.120	
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.012	35.252		1.000				0.132	
6	1,2,3,4,6,7,8-HpCDD	1.60e3	0.99	NO	0.864	10.012	38.800	38.81	1.000	1.001	0.90454		0.167	0.905
7	OCDD	1.37e4	0.89	NO	0.914	10.012	41.781	41.79	1.000	1.000	8.8393		0.110	8.84
8	2,3,7,8-TCDF	3.19e2	0.75	NO	0.751	10.012	25.657	25.66	1.001	1.001	0.067454		0.0542	0.0675
9	1,2,3,7,8-PeCDF			NO	0.893	10.012	30.205		1.001				0.0534	
10	2,3,4,7,8-PeCDF			NO	0.935	10.012	31.207		1.001				0.0508	
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.012	33.973		1.000				0.0443	
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.012	34.111		1.000				0.0439	
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.012	34.722		1.001				0.0441	
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.012	35.603		1.000				0.0631	
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.012	37.419		1.001				0.0818	
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.012	39.331		1.000				0.0840	
17	OCDF	3.75e2	0.92	NO	0.806	10.012	41.972	41.99	1.000	1.001	0.22799		0.0750	0.228
18	13C-2,3,7,8-TCDD	9.17e5	0.80	NO	1.16	10.012	26.553	26.51	1.026	1.025	182.55	91.4	0.171	
19	13C-1,2,3,7,8-PeCDD	6.37e5	0.65	NO	0.849	10.012	31.748	31.48	1.227	1.217	172.57	86.4	0.253	
20	13C-1,2,3,4,7,8-HxCDD	5.01e5	1.28	NO	0.779	10.012	34.863	34.86	1.014	1.014	167.52	83.9	0.357	
21	13C-1,2,3,6,7,8-HxCDD	6.20e5	1.28	NO	1.02	10.012	34.976	34.96	1.017	1.017	158.69	79.4	0.273	
22	13C-1,2,3,7,8,9-HxCDD	5.80e5	1.30	NO	0.903	10.012	35.248	35.24	1.025	1.025	167.27	83.7	0.308	
23	13C-1,2,3,4,6,7,8-HpCDD	4.10e5	1.05	NO	0.689	10.012	38.775	38.79	1.128	1.128	154.74	77.5	0.353	
24	13C-OCDD	6.77e5	0.93	NO	0.652	10.012	41.800	41.78	1.216	1.215	270.20	67.6	0.426	
25	13C-2,3,7,8-TCDF	1.26e6	0.78	NO	1.06	10.012	25.593	25.63	0.989	0.991	178.26	89.2	0.247	
26	13C-1,2,3,7,8-PeCDF	9.94e5	1.65	NO	0.838	10.012	30.128	30.18	1.165	1.167	178.23	89.2	0.408	
27	13C-2,3,4,7,8-PeCDF	9.89e5	1.65	NO	0.817	10.012	31.083	31.18	1.202	1.205	182.09	91.2	0.418	
28	13C-1,2,3,4,7,8-HxCDF	6.74e5	0.50	NO	1.01	10.012	33.993	33.97	0.989	0.988	174.09	87.2	0.491	
29	13C-1,2,3,6,7,8-HxCDF	7.22e5	0.52	NO	1.17	10.012	34.117	34.10	0.992	0.992	161.04	80.6	0.424	
30	13C-2,3,4,6,7,8-HxCDF	6.89e5	0.51	NO	1.02	10.012	34.691	34.69	1.009	1.009	175.50	87.9	0.484	
31	13C-1,2,3,7,8,9-HpCDF	5.80e5	0.50	NO	0.860	10.012	35.592	35.60	1.035	1.036	175.77	88.0	0.575	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-15.qld

Last Altered: Tuesday, June 02, 2020 12:24:36 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 12:25:28 PM Pacific Daylight Time

Name: 200601R3_15, Date: 02-Jun-2020, Time: 01:52:21, ID: 2000855-09 PDI-057SC-A-09-10-191023 13.78, Description: PDI-057SC-A-09-10-191023

	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width	Area%	Height%	Width%	Area	Height	Width
32	13C-1,2,3,4,6,7,8-HpCDF	4.85e5	0.43	NO	0.774	10.012	37.341	37.38	1.086	1.087	162.92	81.6	0.350		
33	13C-1,2,3,4,7,8,9-HpCDF	3.31e5	0.45	NO	0.521	10.012	39.373	39.33	1.145	1.144	165.44	82.8	0.520		
34	13C-OCDF	8.16e5	0.89	NO	0.746	10.012	41.972	41.97	1.221	1.221	284.79	71.3	0.345		
35	37Cl-2,3,7,8-TCDD	3.81e5			1.04	10.012	26.584	26.54	1.028	1.026	84.440	106	0.0470		
36	13C-1,2,3,4-TCDD	8.68e5	0.80	NO	1.00	10.012	25.890	25.87	1.000	1.000	199.76	100	0.197		
37	13C-1,2,3,4-TCDF	1.33e6	0.80	NO	1.00	10.012	24.360	24.19	1.000	1.000	199.76	100	0.262		
38	13C-1,2,3,4,6,9-HxCDF	7.67e5	0.51	NO	1.00	10.012	34.420	34.38	1.000	1.000	199.76	100	0.495		
39	Total Tetra-Dioxins				0.888	10.012	24.620		0.000		0.14022		0.0724	0.140	
40	Total Penta-Dioxins				0.908	10.012	29.960		0.000		0.00000		0.0369	0.0604	
41	Total Hexa-Dioxins				0.892	10.012	33.635		0.000		0.56738		0.127	0.567	
42	Total Hepta-Dioxins				0.864	10.012	37.640		0.000		2.4771		0.167	2.48	
43	Total Tetra-Furans				0.751	10.012	23.610		0.000		0.067454		0.0542	0.227	
44	1st Func. Penta-Furans				0.893	10.012	27.580		0.000				0.00813		
45	Total Penta-Furans				0.893	10.012	29.275		0.000				0.0282		
46	Total Hexa-Furans				0.934	10.012	33.555		0.000				0.0298		
47	Total Hepta-Furans				0.873	10.012	37.835		0.000				0.0520		

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-15.qld

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Name: 200601R3_15, Date: 02-Jun-2020, Time: 01:52:21, ID: 2000855-09 PDI-057SC-A-09-10-191023 13.78, Description: PDI-057SC-A-09-10-191023

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PAH/OP	Resp	EMPA	EMPA	EMPA	
Total Tetra-Dioxins	24.36	5.348e3	4.650e3	2.479e2	3.242e2	0.76	NO	5.721e2	0.14022	0.14022	0.0724

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PAH/OP	Resp	EMPA	EMPA	EMPA	
Total Penta-Dioxins	29.76	3.761e3	3.295e3	1.157e2	1.072e2	1.08	YES	0.000e0	0.00000	0.060391	0.0369

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PAH/OP	Resp	EMPA	EMPA	EMPA	
Total Hexa-Dioxins	33.36	1.598e4	1.355e4	7.782e2	6.590e2	1.18	NO	1.437e3	0.56738	0.56738	0.127

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PAH/OP	Resp	EMPA	EMPA	EMPA	
Total Hepta-Dioxins	37.79	2.059e4	2.025e4	1.378e3	1.409e3	0.98	NO	2.786e3	1.5725	1.5725	0.167
1,2,3,4,6,7,8-HpCDD	38.81	1.536e4	1.284e4	7.955e2	8.072e2	0.99	NO	1.603e3	0.90454	0.90454	0.167

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PAH/OP	Resp	EMPA	EMPA	EMPA	
Total Tetra-Furans	21.54	1.993e3	3.255e3	1.532e2	2.367e2	0.65	YES	0.000e0	0.00000	0.074575	0.0542
Total Tetra-Furans	24.69	2.928e3	3.723e3	1.738e2	2.751e2	0.63	YES	0.000e0	0.00000	0.084581	0.0542
2,3,7,8-TCDF	25.66	1.643e3	2.702e3	1.365e2	1.820e2	0.75	NO	3.186e2	0.067454	0.067454	0.0542

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PAH/OP	Resp	EMPA	EMPA	EMPA
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Dataset: U:\VG12.PRO\Results\200601R3\200601R3-15.qld

Last Altered: Tuesday, June 02, 2020 12:24:36 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 12:25:28 PM Pacific Daylight Time

Name: 200601R3_15, Date: 02-Jun-2020, Time: 01:52:21, ID: 2000855-09 PDI-057SC-A-09-10-191023 13.78, Description: PDI-057SC-A-09-10-191023

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	TV	Resp	RT	Conc	REMPG
------	----	-----------	-----------	---------	---------	----	----	------	----	------	-------

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	TV	Resp	RT	Conc	REMPG
------	----	-----------	-----------	---------	---------	----	----	------	----	------	-------

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	TV	Resp	RT	Conc	REMPG
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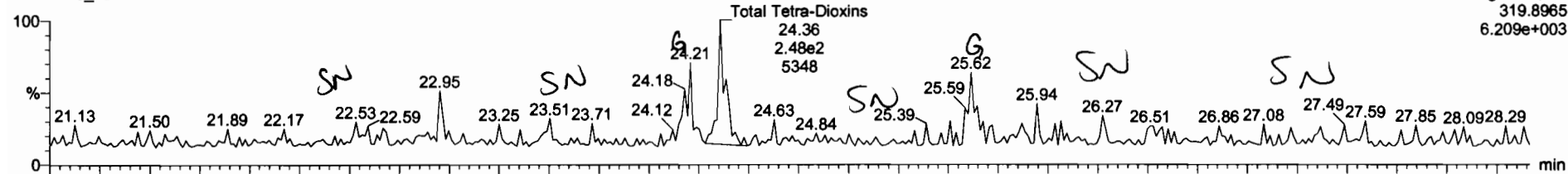
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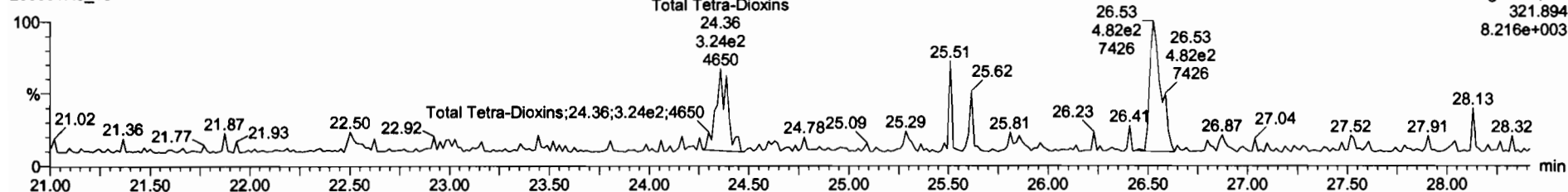
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2,3,7,8-TCDD

200601R3_15



200601R3_15

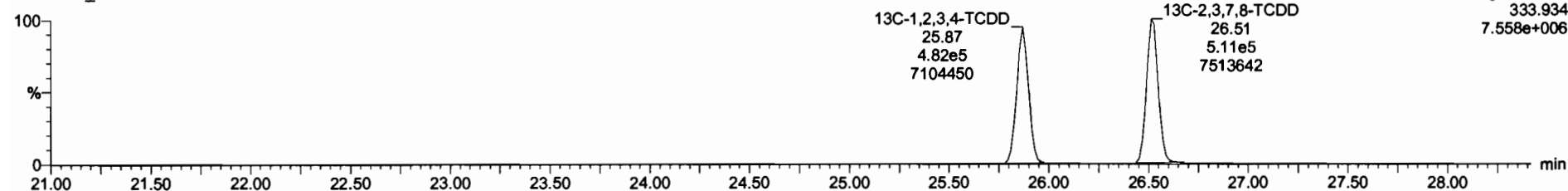


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200601R3_15



200601R3_15



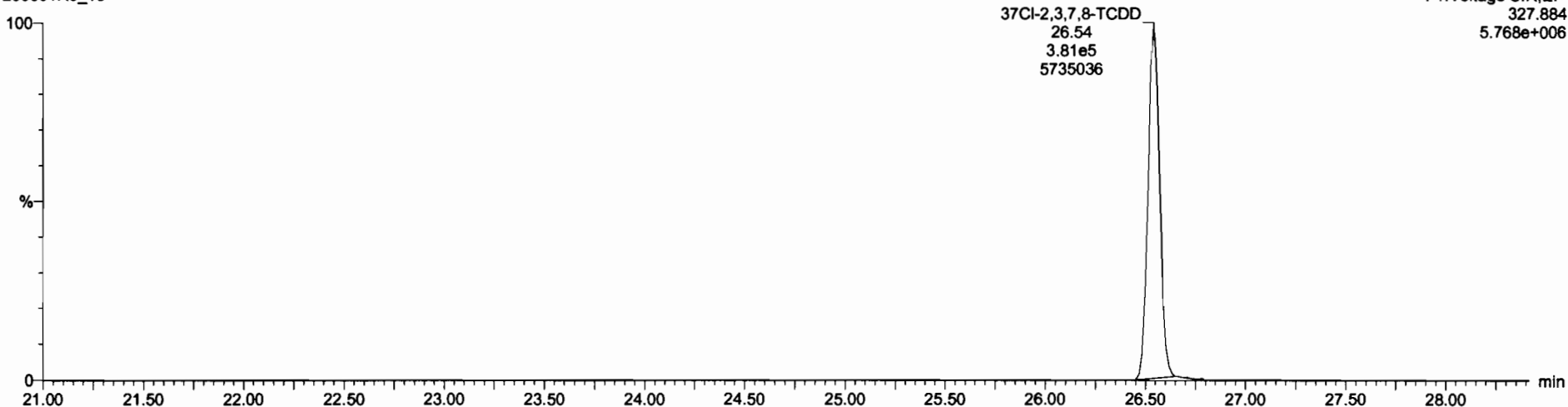
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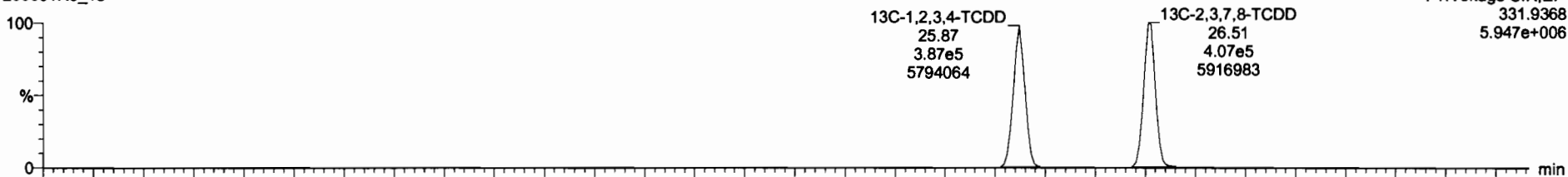
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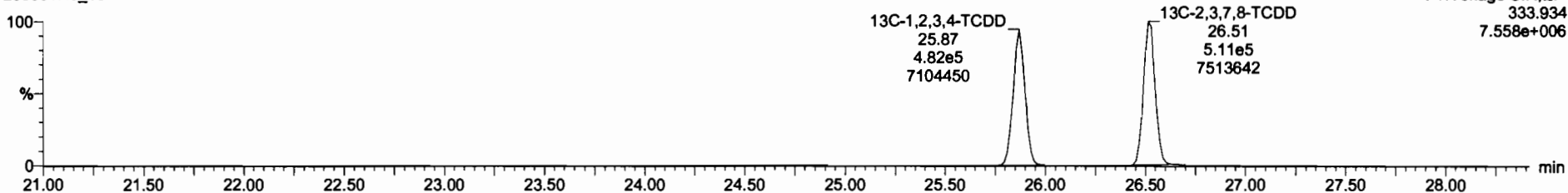


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200601R3_15



200601R3_15



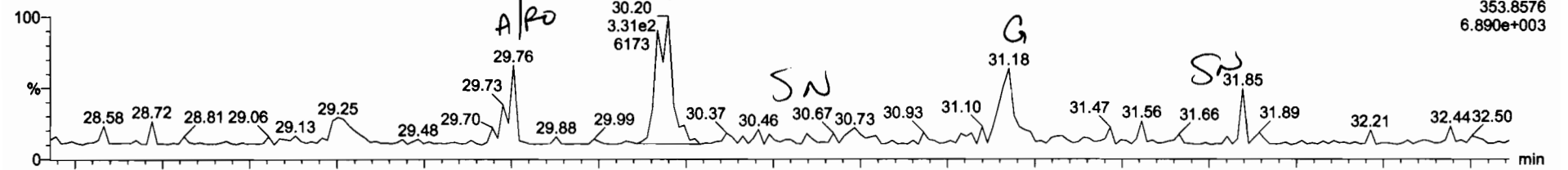
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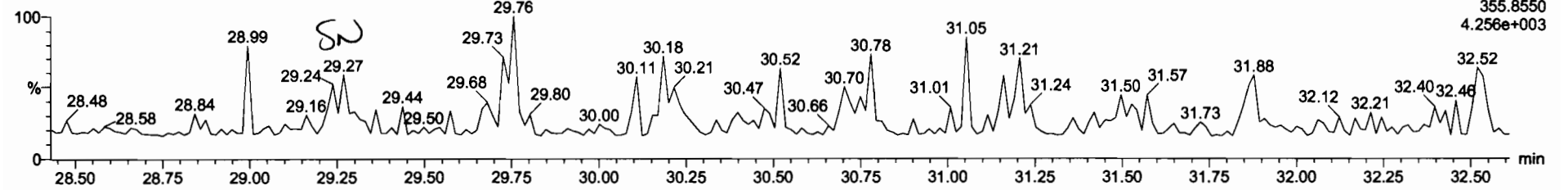
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1,2,3,7,8-PeCDD

200601R3_15

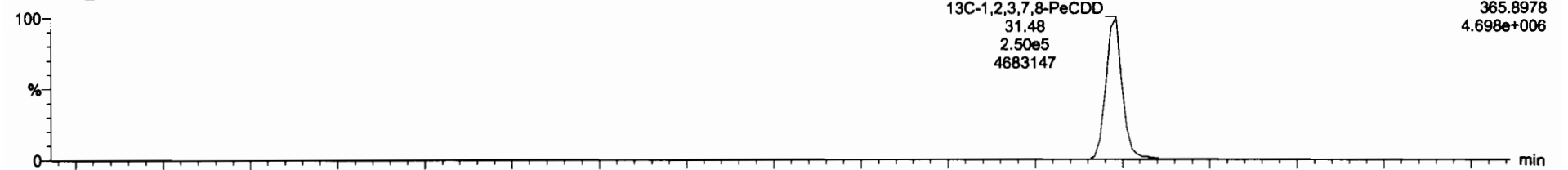


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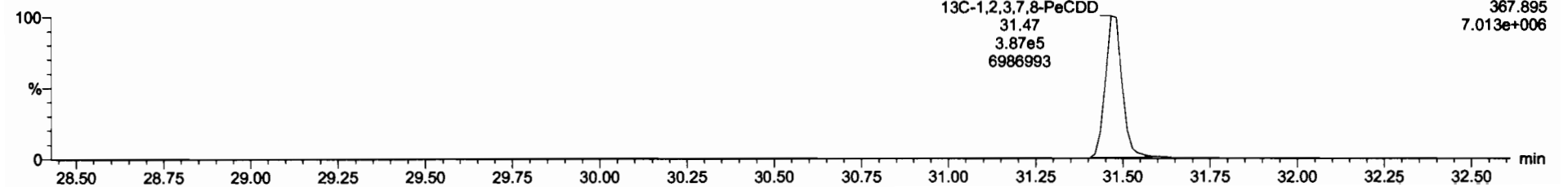


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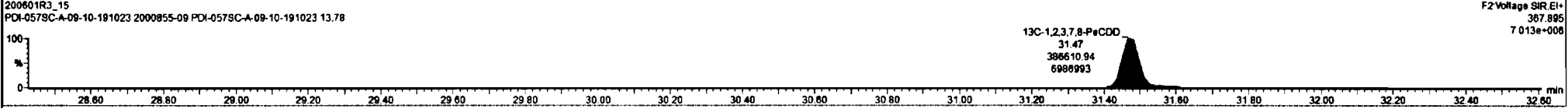
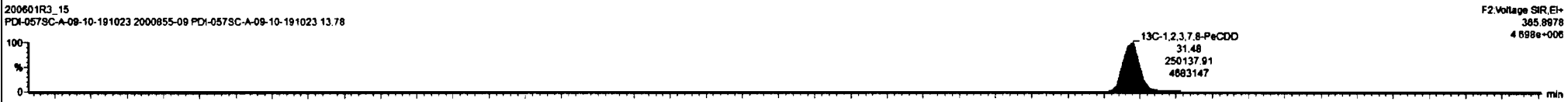
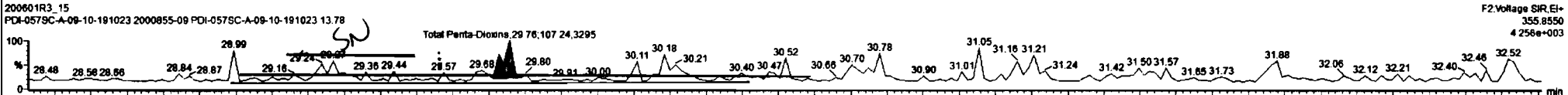
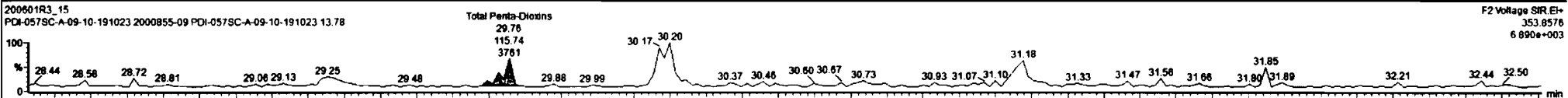
200601R3_15



200601R3_15



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Total Tetra-Dioxins				0.0003	10.012			0.140		0.0724	0.140
Total Hexa-Dioxins				0.0023	10.012			0.567		0.127	0.587
Total Hepta-Dioxins				0.0030	10.012			2.48		0.167	2.48
Total Tetra-Furans				0.7510	10.012			0.0675		0.0542	0.227
1st Func. Penta-Furans				0.0025	10.012					0.00813	
Total Penta-Furans				0.0025	10.012					0.0262	
Total Hexa-Furans				0.9341	10.012					0.0208	
Total Hepta-Furans				0.0734	10.012					0.0520	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



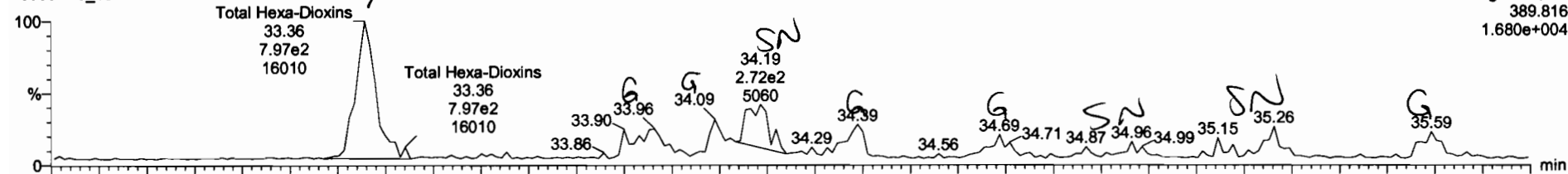
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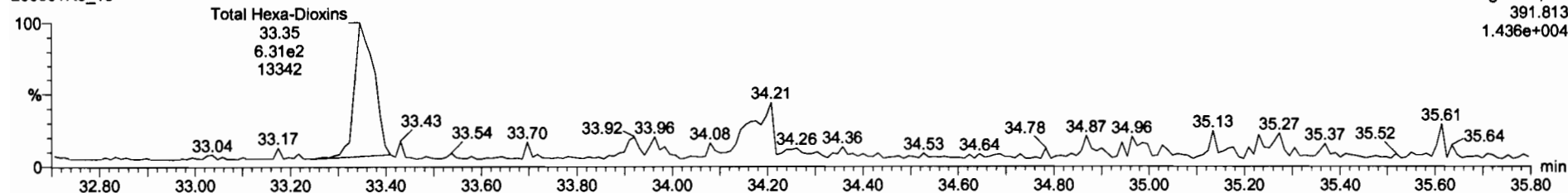
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1,2,3,4,7,8-HxCDD

200601R3_15

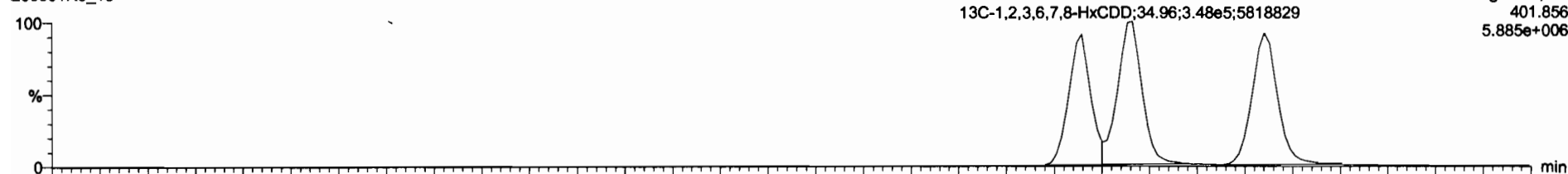


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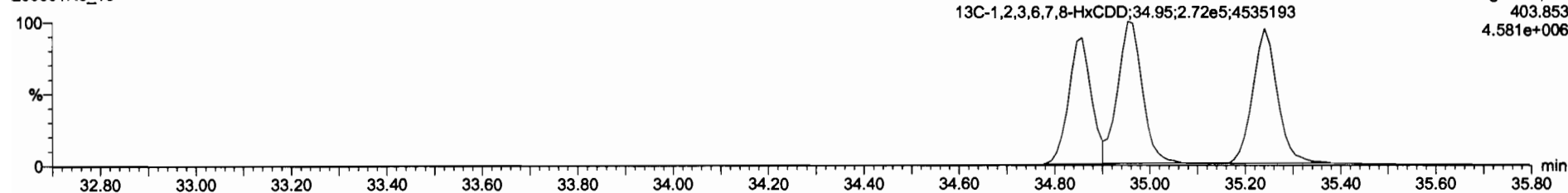


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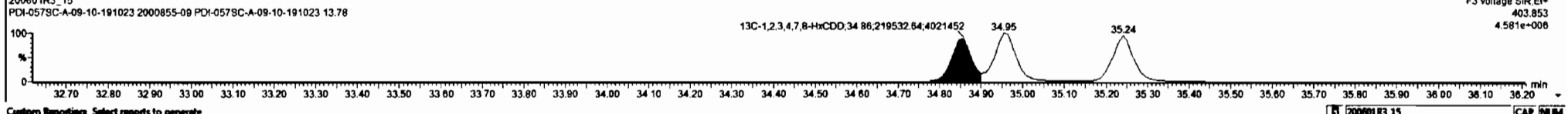
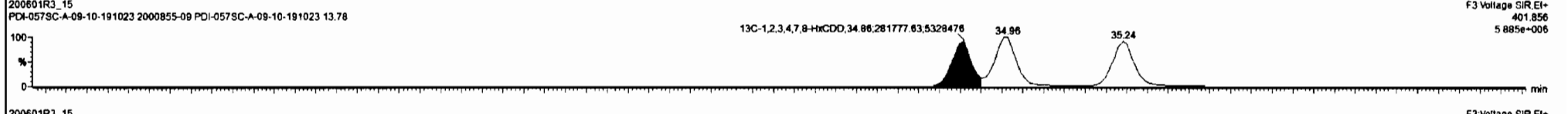
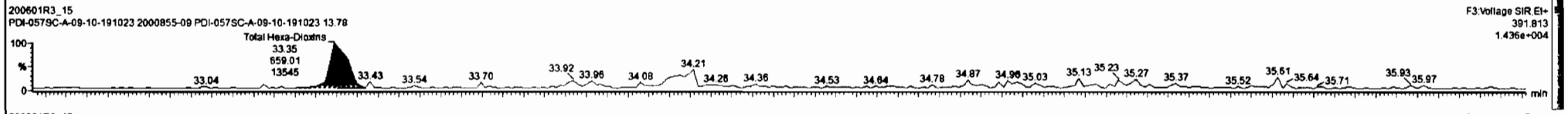
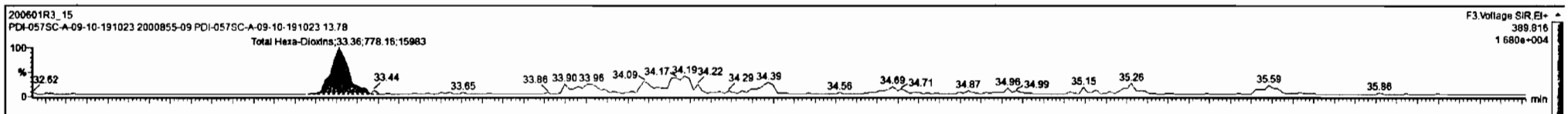
200601R3_15



200601R3_15



Component	Concentration	Area	Height	Width	Retention Time	Integration	Integration	Integration	Integration	Integration
13C-1,2,3,4,6,8-HxCDF	7.67e5	0.51	NO	1.0000	10.012	34.38	1.000	200	100	0.495
Total Tetra-Dioxins				0.8883	10.012			0.140		0.0724 0.140
Total Penta-Dioxins				0.9061	10.012			0.000		0.0369 0.0690
Total Hepta-Dioxins				0.8639	10.012			2.48		0.167 2.48
Total Tetra-Furans				0.7510	10.012			0.0675		0.0542 0.227
1st Func. Penta-Furans				0.8825	10.012					0.00813
Total Penta-Furans				0.8625	10.012					0.0282
Total Hexa-Furans				0.9341	10.012					0.0298
Total Hepta-Furans				0.8734	10.012					0.0520
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



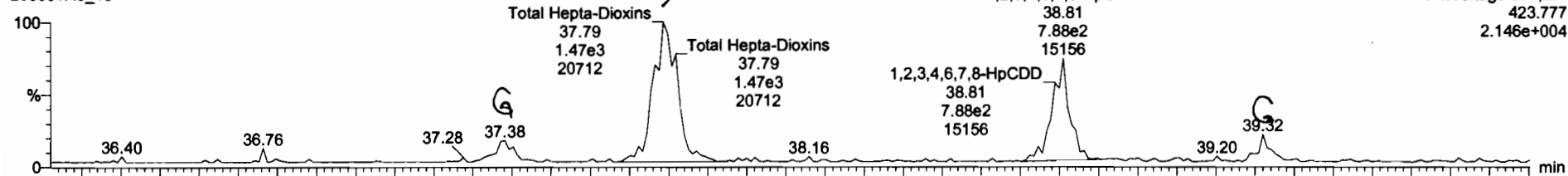
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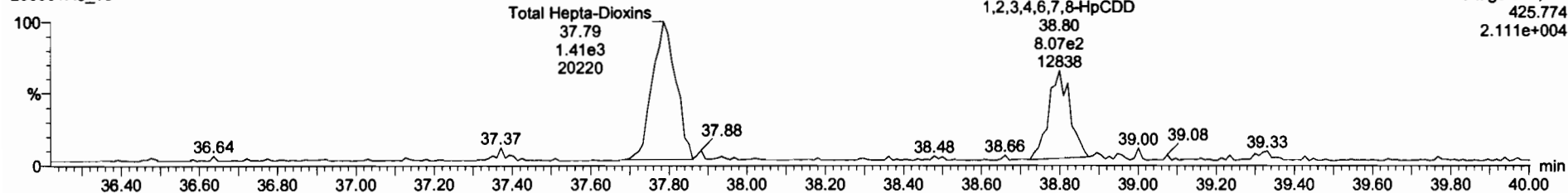
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1,2,3,4,6,7,8-HpCDD

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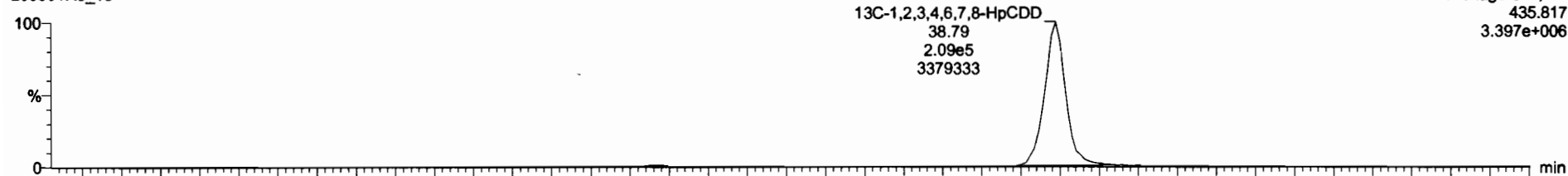


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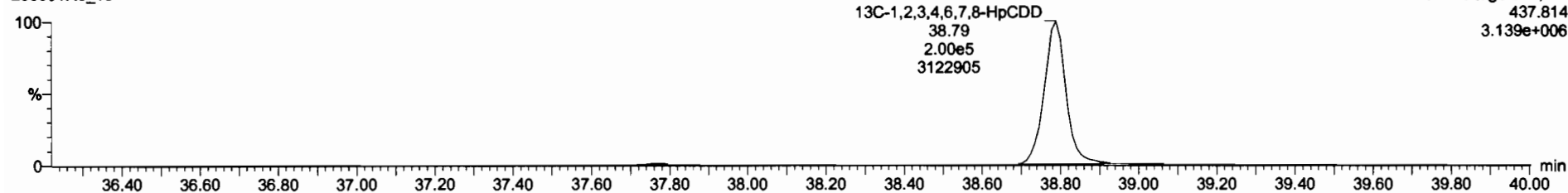


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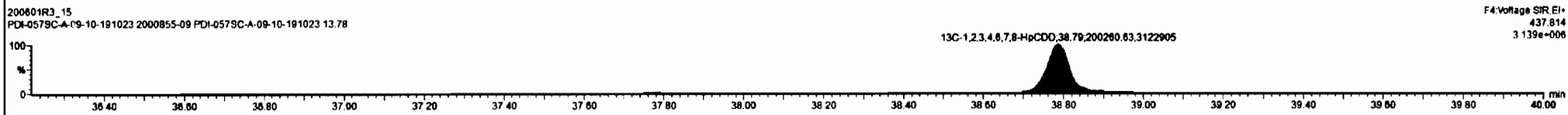
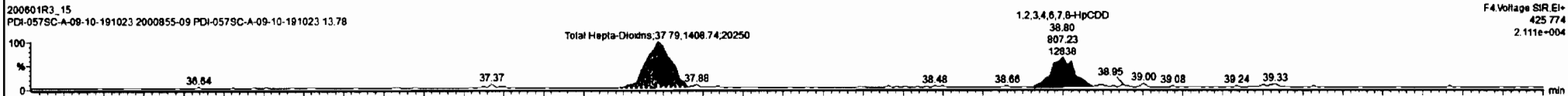
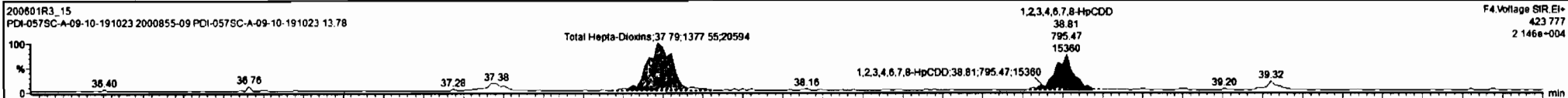
200601R3_15



200601R3_15



13C-1,2,3,4,6,8-HxCDF	7.67e5	0.51	NO	1.0000	10.012	34.36	1.000	200	100	0.485	ELPC
Total Tetra-Dioxins				0.0083	10.012			0.140		0.0724	0.140
Total Penta-Dioxins				0.9081	10.012			0.000		0.0369	0.0600
Total Hexa-Dioxins				0.0823	10.012			0.567		0.127	0.567
Total Tetra-Furans				0.7510	10.012			0.0675		0.0542	0.227
1st Func. Penta-Furans				0.0025	10.012					0.00613	
Total Penta-Furans				0.0025	10.012					0.0282	
Total Hexa-Furans				0.9341	10.012					0.0298	
Total Hepta-Furans				0.8734	10.012					0.0529	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



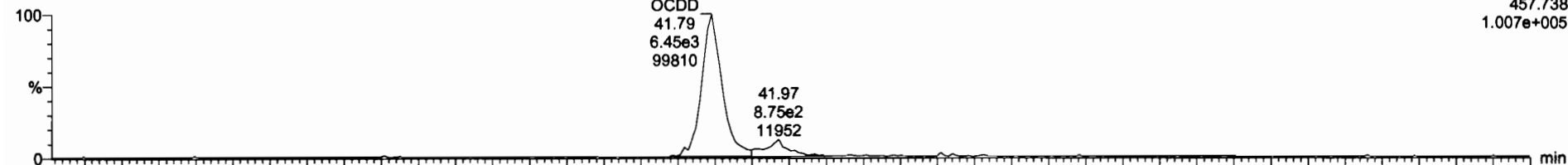
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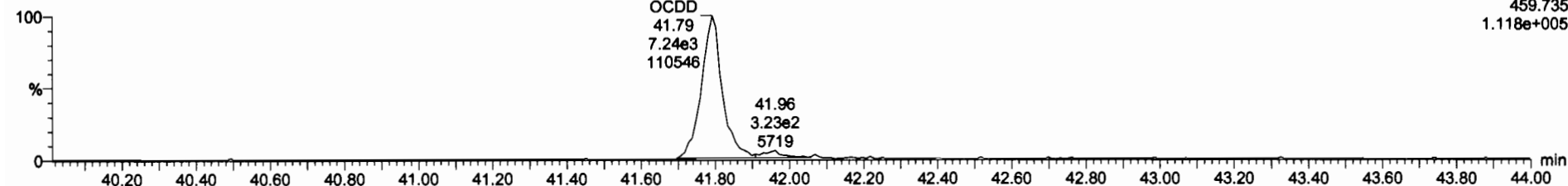
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OCDD

200601R3_15

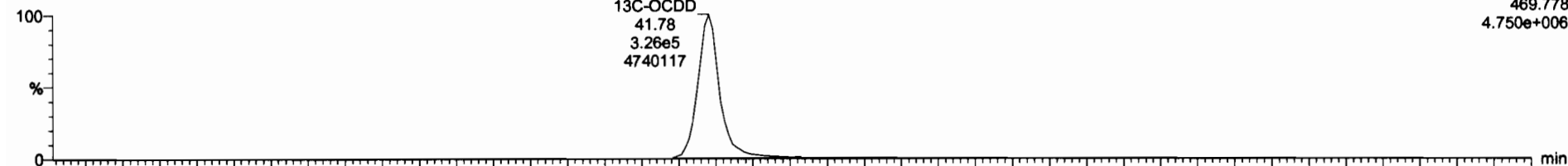


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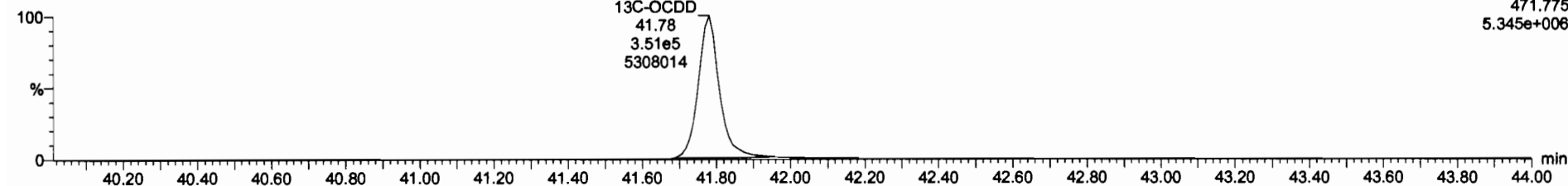


13C-OCDD

200601R3_15



200601R3_15



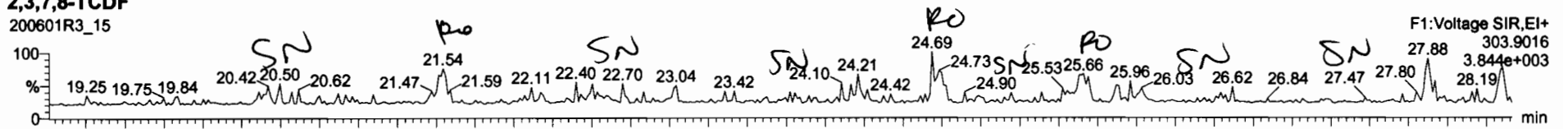
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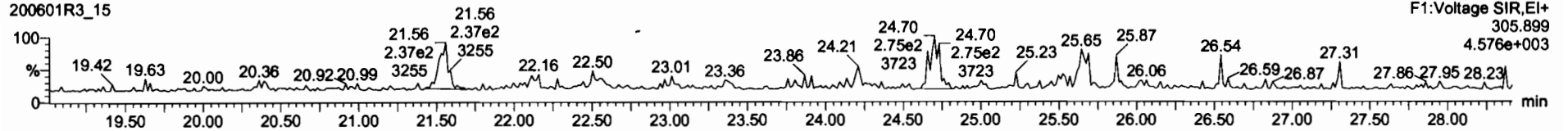
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2,3,7,8-TCDF

200601R3_15

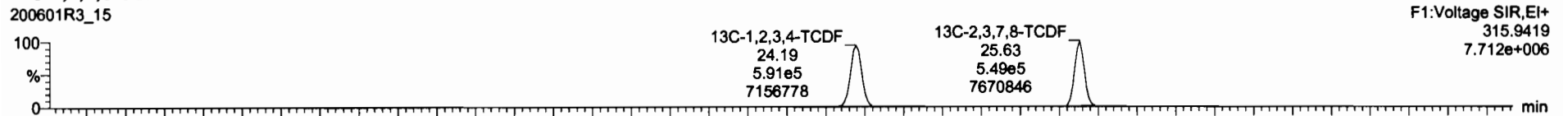


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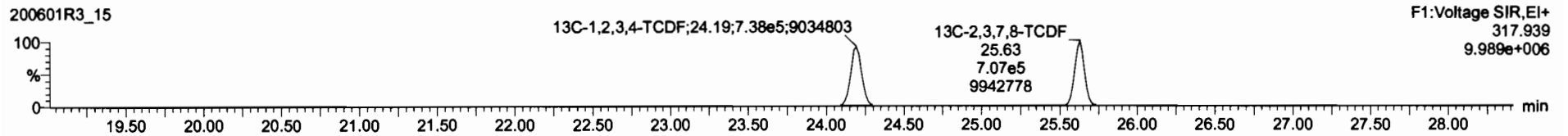


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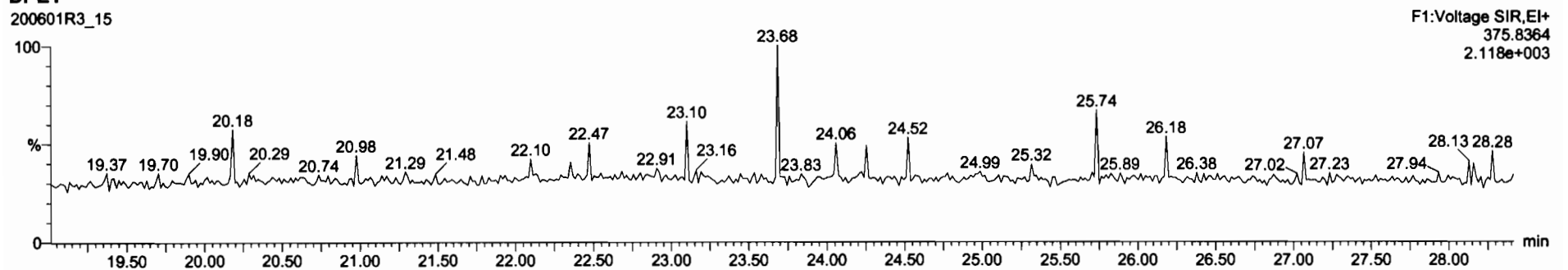


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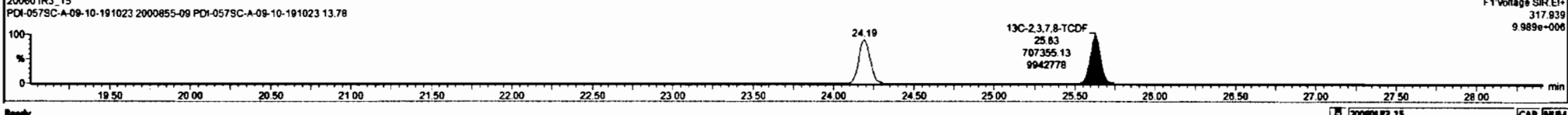
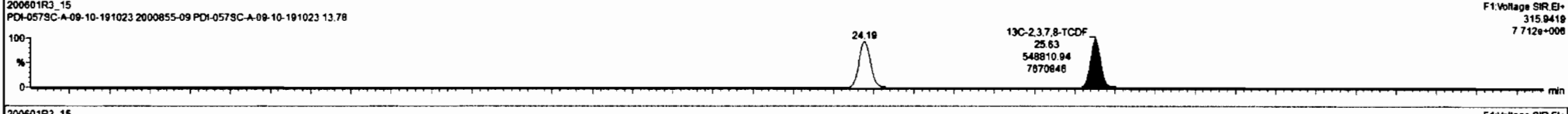
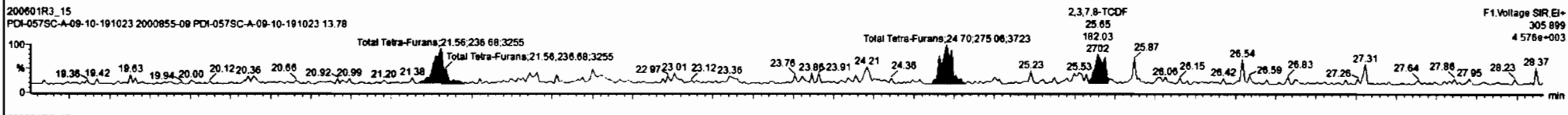
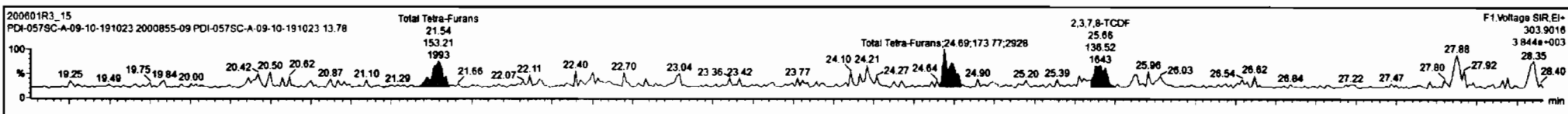


DPE1

200601R3_15



13C-1,2,3,4,6,8-HxCDF	7.67e5	0.51	NO	1.0000	10.012	34.38	1.000	200	100	0.495	0.140
Total Tetra-Dioxins	0.8883	10.012						0.140		0.0724	0.140
Total Penta-Dioxins	0.9081	10.012						0.000		0.0369	0.0600
Total Hexa-Dioxins	0.8823	10.012						0.567		0.127	0.567
Total Hepta-Dioxins	0.8830	10.012						2.48		0.167	2.48
1st Func. Penta-Furans	0.8825	10.012								0.00813	
Total Penta-Furans	0.8825	10.012								0.0282	
Total Hexa-Furans	0.8341	10.012								0.0298	
Total Hepta-Furans	0.8734	10.012								0.9520	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



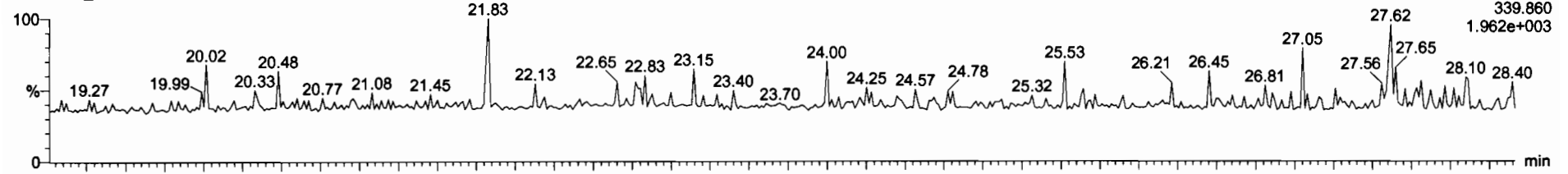
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

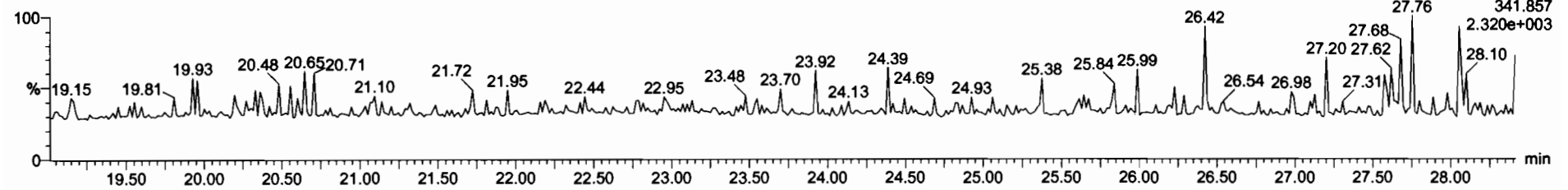
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1st Func. Penta-Furans

200601R3_15

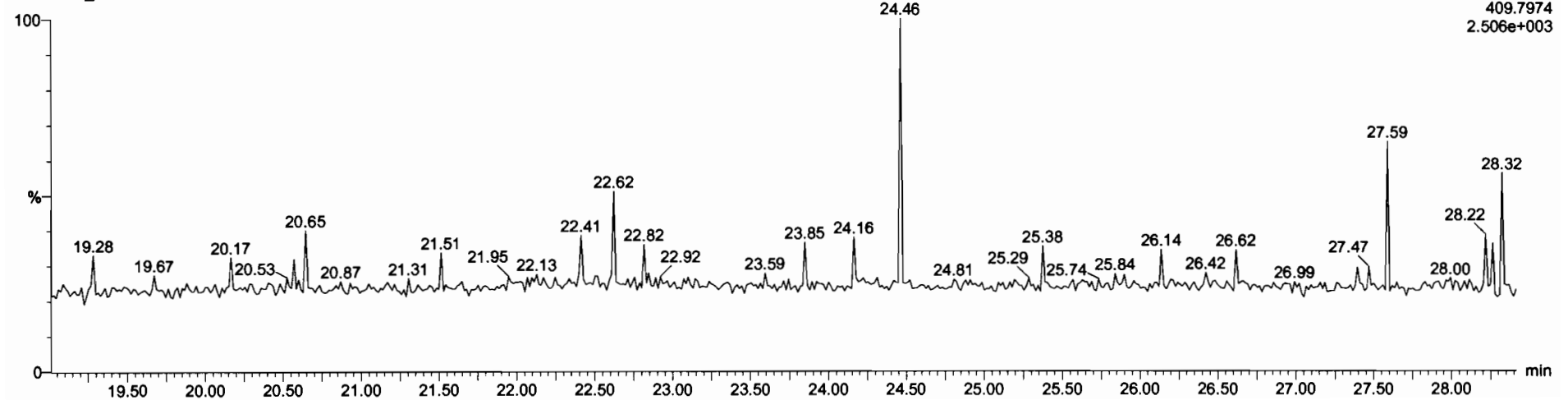


200601R3_15



DPE6

200601R3_15



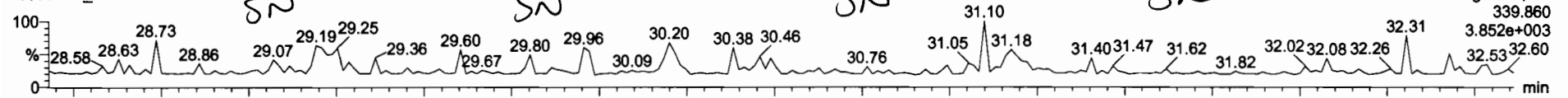
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

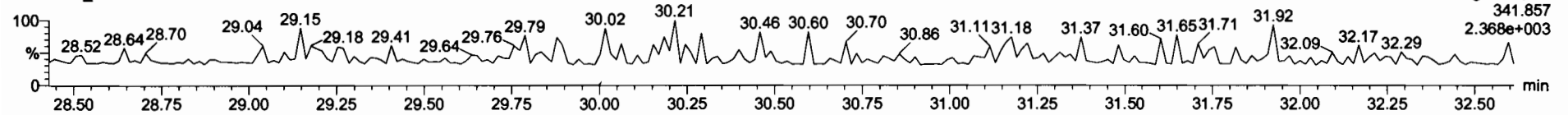
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1,2,3,7,8-PeCDF

200601R3_15

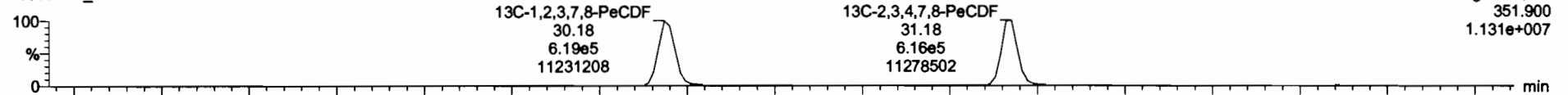


200601R3_15

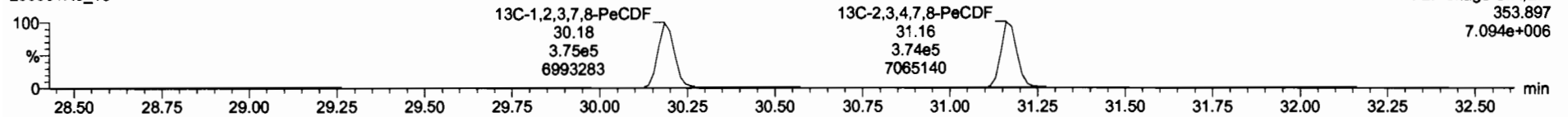


13C-1,2,3,7,8-PeCDF

200601R3_15

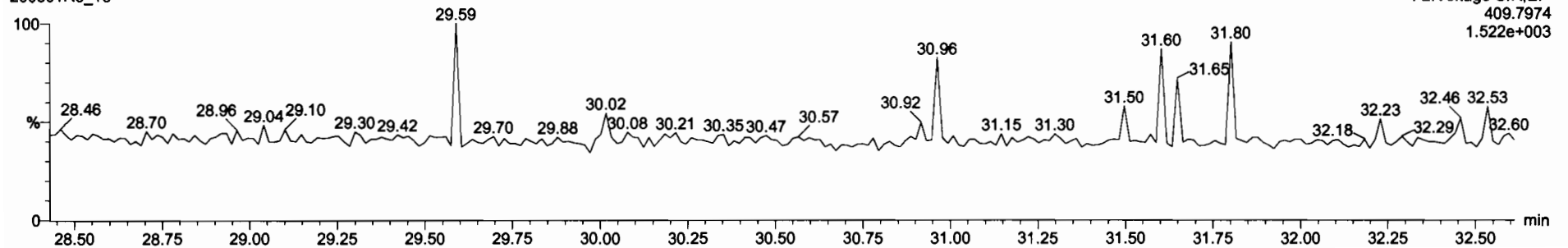


200601R3_15



DPE2

200601R3_15

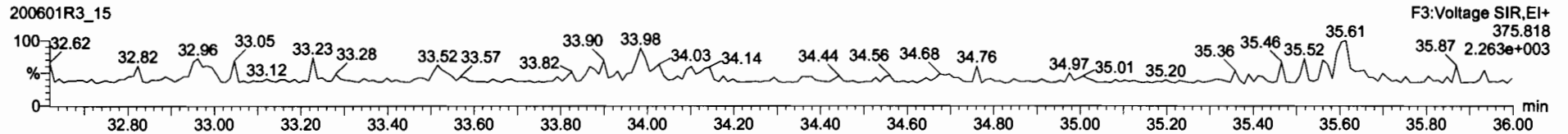
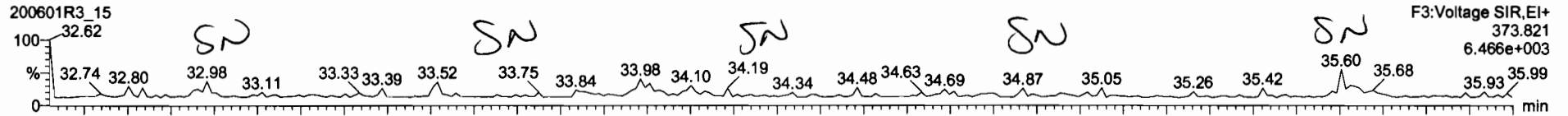


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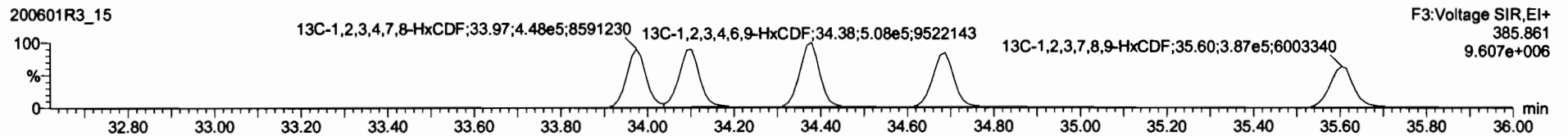
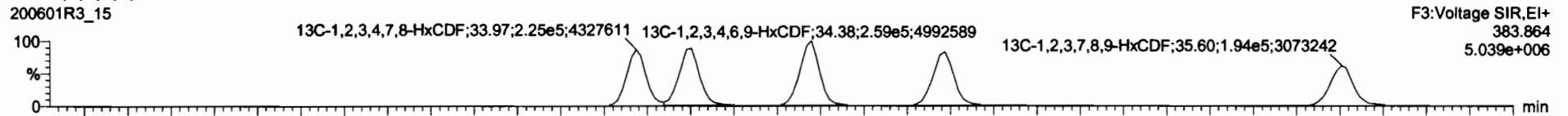
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_15, Date: 02-Jun-2020, Time: 01:52:21, ID: 2000855-09 PDI-057SC-A-09-10-191023 13.78, Description: PDI-057SC-A-09-10-191023

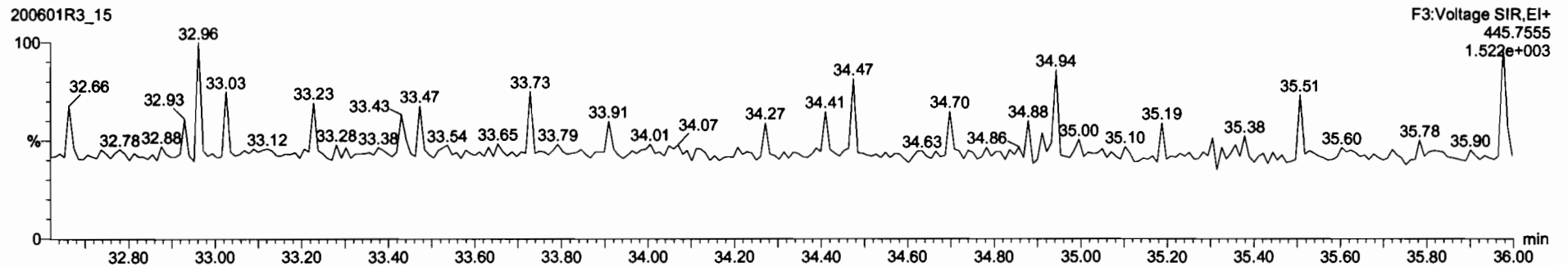
1,2,3,4,7,8-HxCDF



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



DPE3



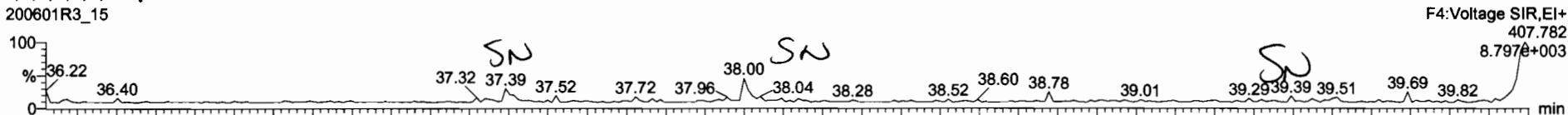
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

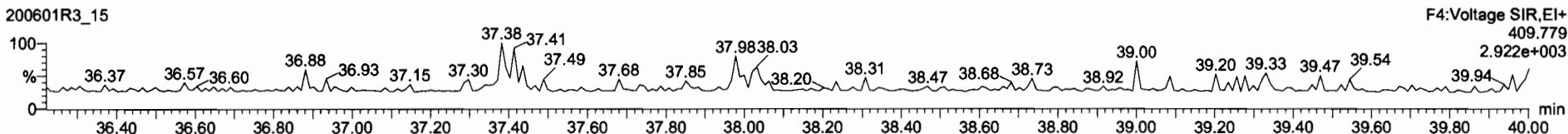
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1,2,3,4,6,7,8-HpCDF

200601R3_15

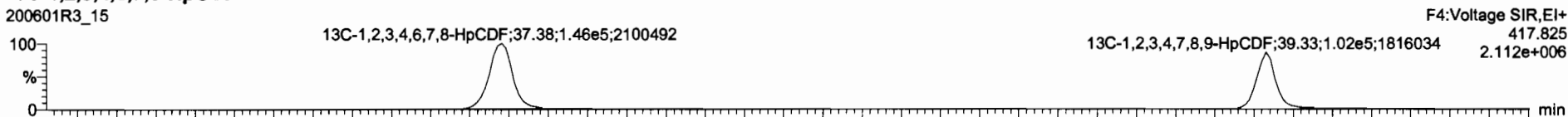


200601R3_15

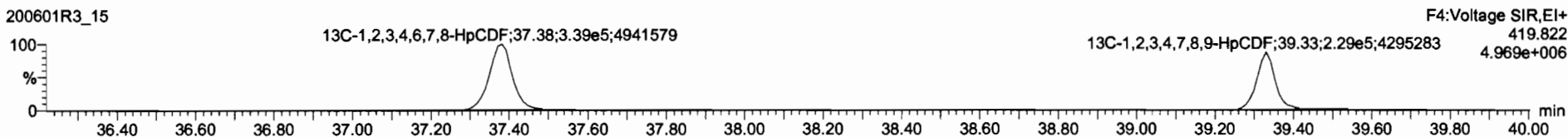


13C-1,2,3,4,6,7,8-HpCDF

200601R3_15

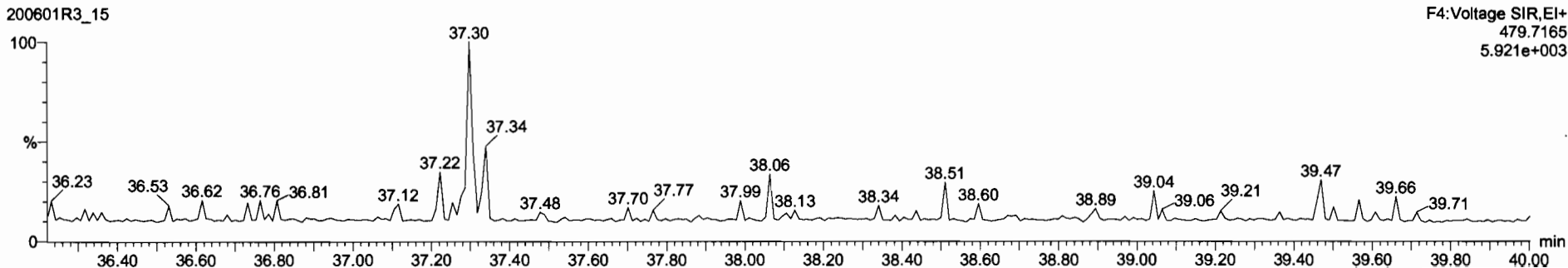


200601R3_15



DPE4

200601R3_15

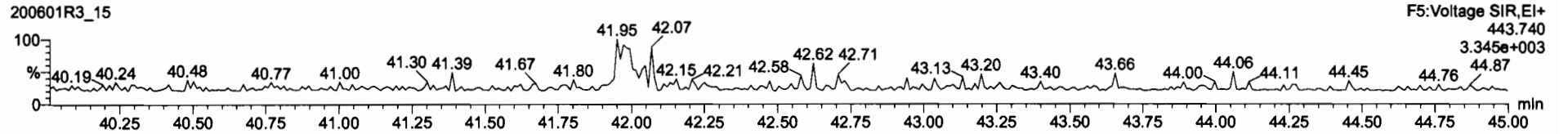
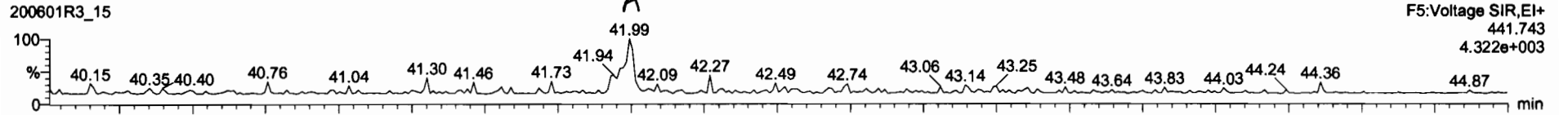


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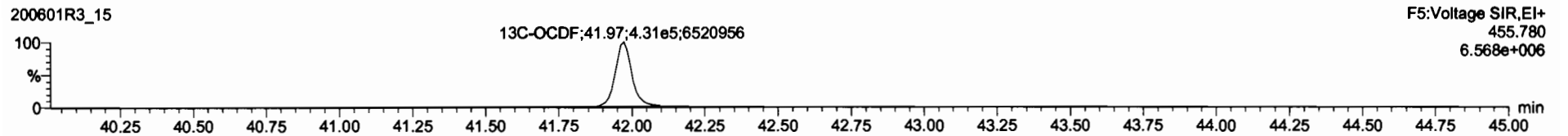
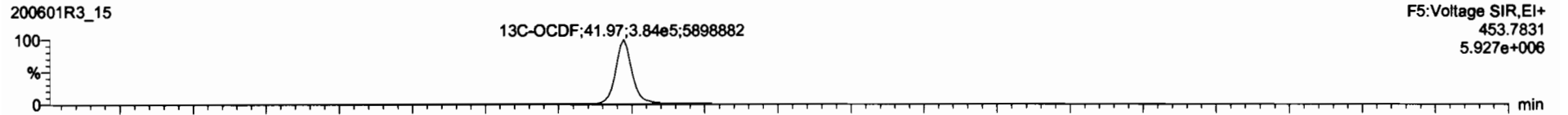
Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_15, Date: 02-Jun-2020, Time: 01:52:21, ID: 2000855-09 PDI-057SC-A-09-10-191023 13.78, Description: PDI-057SC-A-09-10-191023

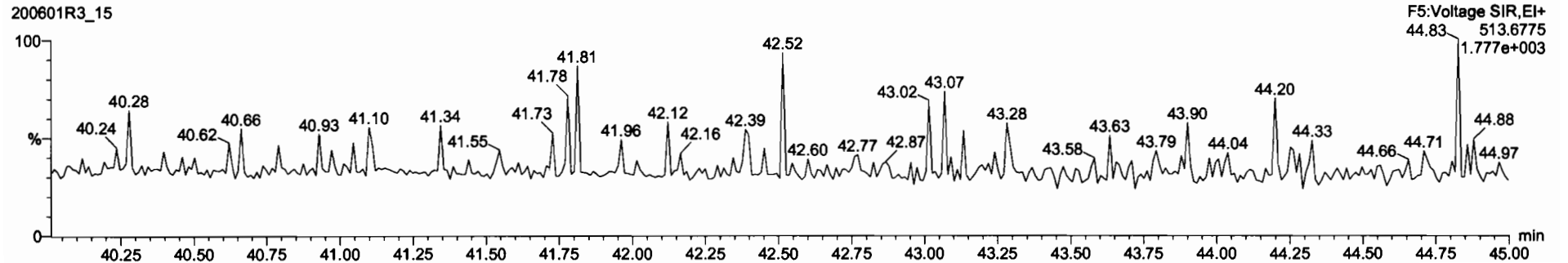
OCDF



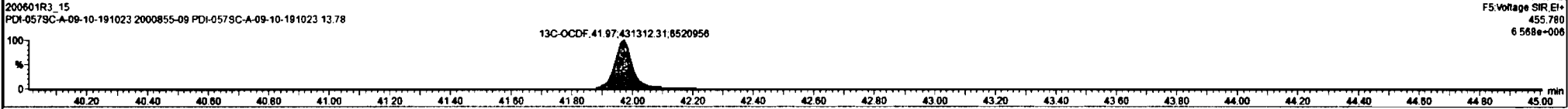
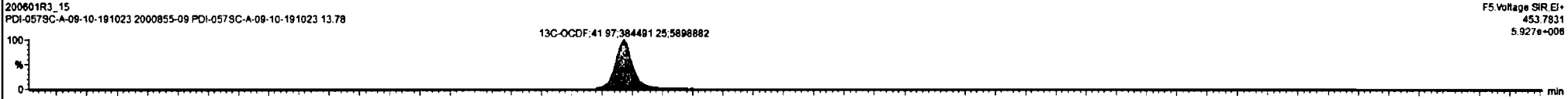
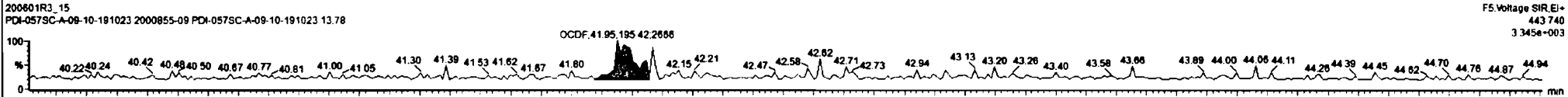
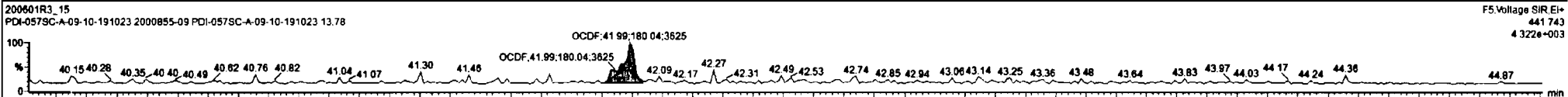
13C-OCDF



DPE5



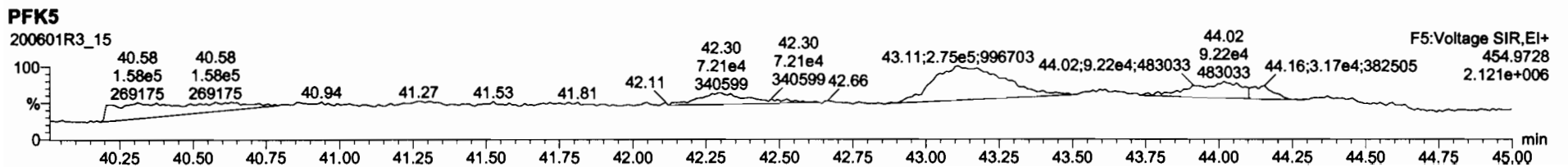
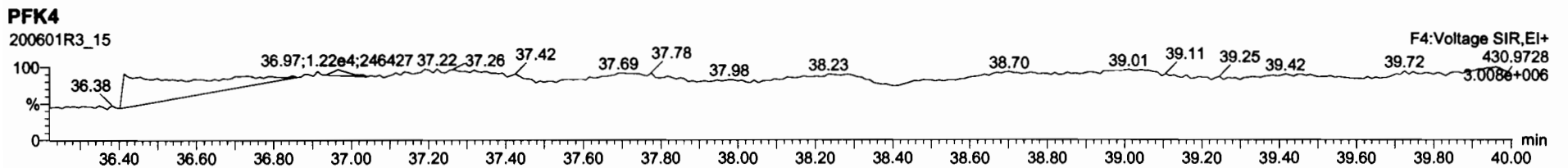
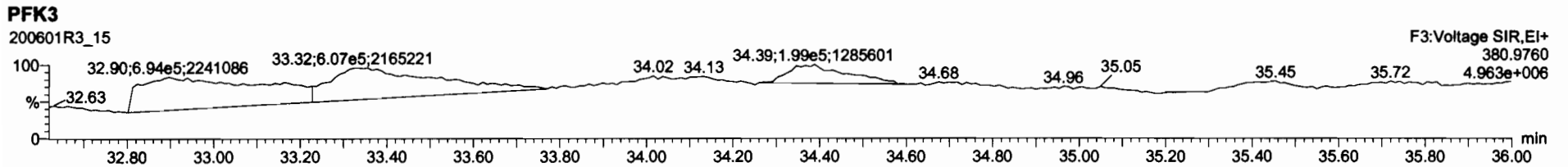
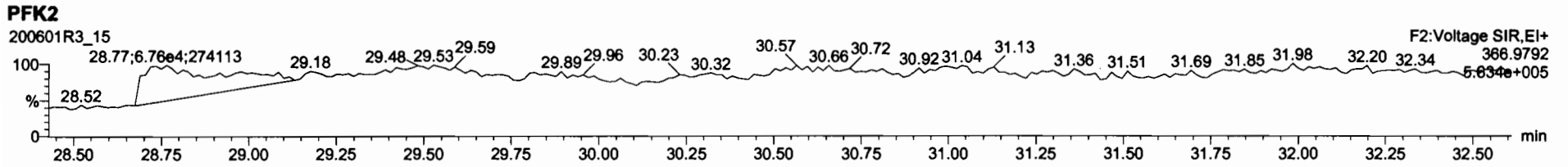
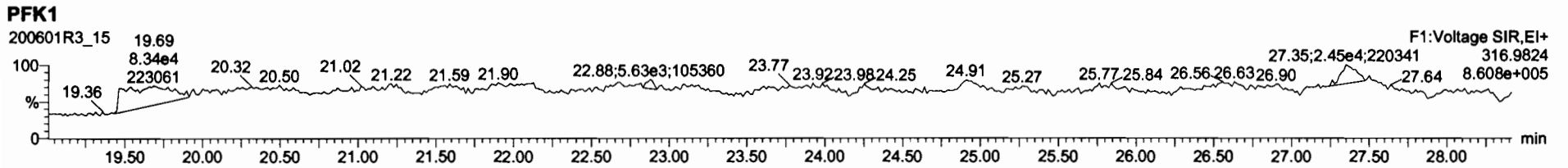
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2,3,7,8-TCDF	3.19e2	0.75	NO	0.7510	10.012	25.88	1.001	0.0675		0.9542	0.0670
1,2,3,7,8-PeCDF			NO	0.8825	10.012					0.0534	
2,3,4,7,8-PeCDF			NO	0.9348	10.012					0.0508	
1,2,3,4,7,8-HxCDF			NO	0.8845	10.012					0.0443	
1,2,3,6,7,8-HxCDF			NO	0.8882	10.012					0.0439	
2,3,4,6,7,8-HxCDF			NO	0.9341	10.012					0.0441	
1,2,3,7,8,9-HxCDF			NO	0.8707	10.012					0.0631	
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.012					0.0618	
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.012					0.0640	
13C-2,3,7,8-TCDD	9.17e5	0.88	NO	1.1583	10.012	28.51	1.025	183	91.4	0.171	
13C-1,2,3,7,8-PeCDD	6.37e5	0.85	NO	0.9489	10.012	31.48	1.217	173	88.4	0.253	
13C-1,2,3,4,7,8-HxCDD	5.01e5	1.28	NO	0.7790	10.012	34.88	1.014	168	83.9	0.357	
13C-1,2,3,6,7,8-HxCDD	6.20e5	1.28	NO	1.0187	10.012	34.98	1.017	159	79.4	0.273	
13C-1,2,3,7,8,9-HxCDD	5.80e5	1.30	NO	0.9027	10.012	35.24	1.025	167	83.7	0.308	
13C-1,2,3,4,6,7,8-HpCDD	4.10e5	1.05	NO	0.6882	10.012	38.79	1.128	155	77.5	0.353	
13C-OCDD	6.77e5	0.93	NO	0.6521	10.012	41.78	1.215	270	67.6	0.426	
13C-2,3,7,8-TCDF	1.26e8	0.78	NO	1.0590	10.012	25.63	0.991	178	89.2	0.247	
13C-1,2,3,7,8-PeCDF	9.84e5	1.65	NO	0.8380	10.012	30.18	1.187	178	89.2	0.408	
13C-2,3,4,7,8-PeCDF	9.89e5	1.65	NO	0.8186	10.012	31.18	1.205	182	91.2	0.418	



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_15, Date: 02-Jun-2020, Time: 01:52:21, ID: 2000855-09 PDI-057SC-A-09-10-191023 13.78, Description: PDI-057SC-A-09-10-191023



Dataset: U:\VG12.PRO\Results\200601R3\200601R3-16.qld

Last Altered: Tuesday, June 02, 2020 12:43:20 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 12:44:57 PM Pacific Daylight Time

GPB 06/02/2020

ET 06/05/2020

Method: Untitled 01 Jun 2020 11:54:45

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

Name: 200601R3_16, Date: 02-Jun-2020, Time: 02:38:32, ID: 2000855-10 PDI-057SC-A-10-11-191023 14.54, Description: PDI-057SC-A-10-11-191023

	RA	RA	n/y	RRF	WTR	Prod	GR						
1	2,3,7,8-TCDD		NO	0.888	10.086	26.560		1.001				0.0461	
2	1,2,3,7,8-PeCDD		NO	0.908	10.086	31.503		1.001				0.109	
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.086	34.867		1.000				0.0853	
4	1,2,3,6,7,8-HxCDD		NO	0.892	10.086	34.964		1.000				0.0866	
5	1,2,3,7,8,9-HxCDD		NO	0.887	10.086	35.262		1.000				0.0958	
6	1,2,3,4,6,7,8-HpCDD	8.69e2	0.97	NO	0.864	10.086	38.789	38.80	1.000	1.001	0.45211	0.137	0.452
7	OCDD	5.32e3	0.87	NO	0.914	10.086	41.770	41.78	1.000	1.000	3.3198	0.107	3.32
8	2,3,7,8-TCDF		NO	0.751	10.086	25.657		1.001				0.0566	
9	1,2,3,7,8-PeCDF		NO	0.893	10.086	30.220		1.001				0.0472	
10	2,3,4,7,8-PeCDF		NO	0.935	10.086	31.207		1.001				0.0426	
11	1,2,3,4,7,8-HxCDF		NO	0.884	10.086	33.984		1.000				0.0450	
12	1,2,3,6,7,8-HxCDF		NO	0.889	10.086	34.111		1.000				0.0428	
13	2,3,4,6,7,8-HxCDF		NO	0.934	10.086	34.722		1.001				0.0448	
14	1,2,3,7,8,9-HxCDF		NO	0.871	10.086	35.603		1.000				0.0657	
15	1,2,3,4,6,7,8-HpCDF		NO	0.873	10.086	37.419		1.001				0.0612	
16	1,2,3,4,7,8,9-HpCDF		NO	1.01	10.086	39.320		1.000				0.0650	
17	OCDF		NO	0.806	10.086	41.961		1.000				0.0913	
18	13C-2,3,7,8-TCDD	9.56e5	0.79	NO	1.16	10.086	26.553	26.53	1.026	1.025	186.76	94.2	0.193
19	13C-1,2,3,7,8-PeCDD	7.14e5	0.65	NO	0.849	10.086	31.748	31.48	1.227	1.217	190.14	95.9	0.211
20	13C-1,2,3,4,7,8-HxCDD	5.68e5	1.27	NO	0.779	10.086	34.863	34.86	1.014	1.014	174.75	88.1	0.457
21	13C-1,2,3,6,7,8-HxCDD	6.79e5	1.29	NO	1.02	10.086	34.976	34.96	1.017	1.017	159.99	80.7	0.350
22	13C-1,2,3,7,8,9-HxCDD	6.25e5	1.22	NO	0.903	10.086	35.248	35.25	1.025	1.025	166.04	83.7	0.394
23	13C-1,2,3,4,6,7,8-HpCDD	4.41e5	1.06	NO	0.689	10.086	38.775	38.78	1.128	1.128	153.44	77.4	0.292
24	13C-OCDD	6.96e5	0.87	NO	0.652	10.086	41.800	41.77	1.216	1.215	255.89	64.5	0.325
25	13C-2,3,7,8-TCDF	1.35e6	0.78	NO	1.06	10.086	25.593	25.63	0.989	0.991	184.31	92.9	0.219
26	13C-1,2,3,7,8-PeCDF	1.08e6	1.60	NO	0.838	10.086	30.128	30.20	1.165	1.167	187.11	94.4	0.404
27	13C-2,3,4,7,8-PeCDF	1.08e6	1.61	NO	0.817	10.086	31.083	31.18	1.202	1.205	190.70	96.2	0.414
28	13C-1,2,3,4,7,8-HxCDF	7.41e5	0.50	NO	1.01	10.086	33.993	33.98	0.989	0.989	176.28	88.9	0.398
29	13C-1,2,3,6,7,8-HxCDF	8.07e5	0.51	NO	1.17	10.086	34.117	34.10	0.992	0.992	165.82	83.6	0.343
30	13C-2,3,4,6,7,8-HxCDF	7.61e5	0.51	NO	1.02	10.086	34.691	34.69	1.009	1.009	178.62	90.1	0.392
31	13C-1,2,3,7,8,9-HxCDF	6.32e5	0.51	NO	0.860	10.086	35.592	35.60	1.035	1.036	176.33	88.9	0.466

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-16.qld

Last Altered: Tuesday, June 02, 2020 12:43:20 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 12:44:57 PM Pacific Daylight Time

Name: 200601R3_16, Date: 02-Jun-2020, Time: 02:38:32, ID: 2000855-10 PDI-057SC-A-10-11-191023 14.54, Description: PDI-057SC-A-10-11-191023

	RA	rly	RRF	Wt/Wt									
32 13C-1,2,3,4,6,7,8-HpCDF	5.26e5	0.44	NO	0.774	10.086	37.341	37.38	1.086	1.087	162.90	82.1	0.391	
33 13C-1,2,3,4,7,8,9-HpCDF	3.68e5	0.43	NO	0.521	10.086	39.373	39.32	1.145	1.144	169.39	85.4	0.582	
34 13C-OCDF	8.69e5	0.84	NO	0.746	10.086	41.972	41.96	1.221	1.221	279.35	70.4	0.247	
35 37Cl-2,3,7,8-TCDD	3.92e5			1.04	10.086	26.584	26.54	1.028	1.026	85.389	108	0.101	
36 13C-1,2,3,4-TCDD	8.78e5	0.81	NO	1.00	10.086	25.890	25.87	1.000	1.000	198.30	100	0.223	
37 13C-1,2,3,4-TCDF	1.37e6	0.80	NO	1.00	10.086	24.360	24.19	1.000	1.000	198.30	100	0.232	
38 13C-1,2,3,4,6,9-HxCDF	8.27e5	0.52	NO	1.00	10.086	34.420	34.38	1.000	1.000	198.30	100	0.401	
39 Total Tetra-Dioxins				0.888	10.086	24.620		0.000		0.00000		0.0261	0.177
40 Total Penta-Dioxins				0.908	10.086	29.960		0.000				0.0360	
41 Total Hexa-Dioxins				0.892	10.086	33.635		0.000		0.27638		0.0932	0.276
42 Total Hepta-Dioxins				0.864	10.086	37.640		0.000		1.1322		0.137	1.13
43 Total Tetra-Furans				0.751	10.086	23.610		0.000		0.17429		0.0566	0.174
44 1st Func. Penta-Furans				0.893	10.086	27.580		0.000				0.00881	
45 Total Penta-Furans				0.893	10.086	29.275		0.000				0.0206	
46 Total Hexa-Furans				0.934	10.086	33.555		0.000				0.0247	
47 Total Hepta-Furans				0.873	10.086	37.835		0.000				0.0329	

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-16.qld

Last Altered: Tuesday, June 02, 2020 12:43:20 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 12:44:57 PM Pacific Daylight Time

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

Name: 200601R3_16, Date: 02-Jun-2020, Time: 02:38:32, ID: 2000855-10 PDI-057SC-A-10-11-191023 14.54, Description: PDI-057SC-A-10-11-191023

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CR	RF	RF2	RF3	RF4
Total Tetra-Dioxins	24.33	5.091e3	5.309e3	4.590e2	4.274e2	1.07	YES	0.000e0	0.00000	0.17669	0.0461

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CR	RF	RF2	RF3	RF4

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CR	RF	RF2	RF3	RF4
Total Hexa-Dioxins	33.37	9.364e3	6.029e3	4.545e2	3.215e2	1.41	NO	7.759e2	0.27638	0.27638	0.0932

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CR	RF	RF2	RF3	RF4
Total Hepta-Dioxins	37.81	8.380e3	8.418e3	6.939e2	6.132e2	1.13	NO	1.307e3	0.68009	0.68009	0.137
1,2,3,4,6,7,8-HpCDD	38.80	8.243e3	9.353e3	4.289e2	4.400e2	0.97	NO	8.689e2	0.45211	0.45211	0.137

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CR	RF	RF2	RF3	RF4
Total Tetra-Furans	21.56	4.734e3	5.479e3	3.777e2	5.130e2	0.74	NO	8.907e2	0.17429	0.17429	0.0566

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	PA	CR	RF	RF2	RF3	RF4

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Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Q10	EMPG	DL

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Q10	EMPG	DL

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Int	Resp	Q10	EMPG	DL

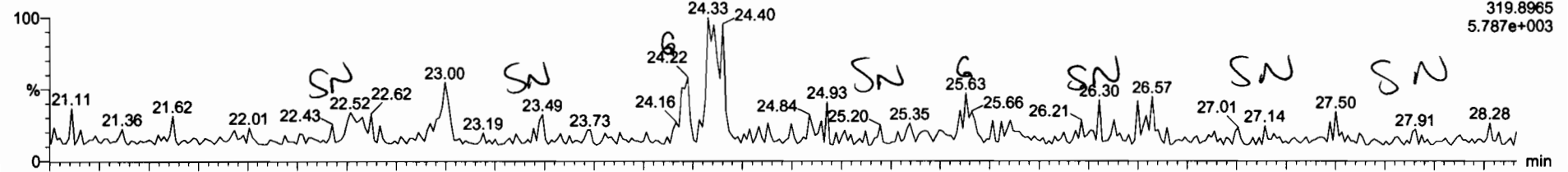
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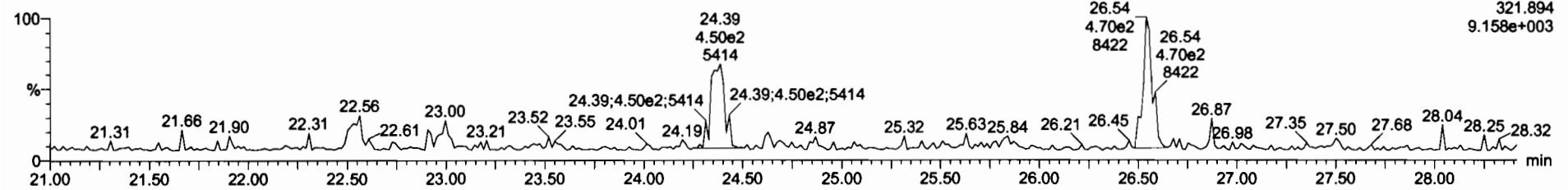
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2,3,7,8-TCDD

200601R3_16

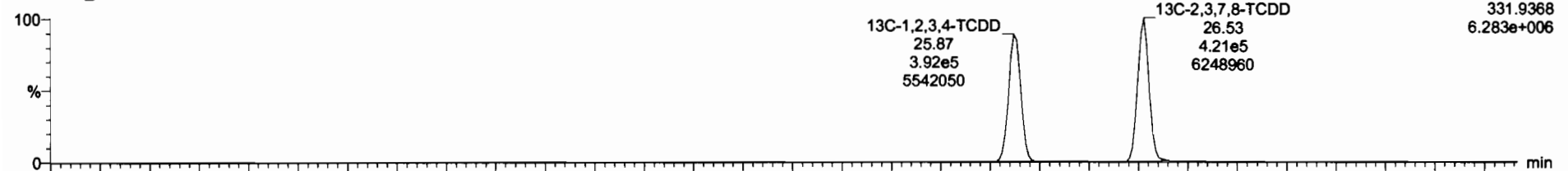


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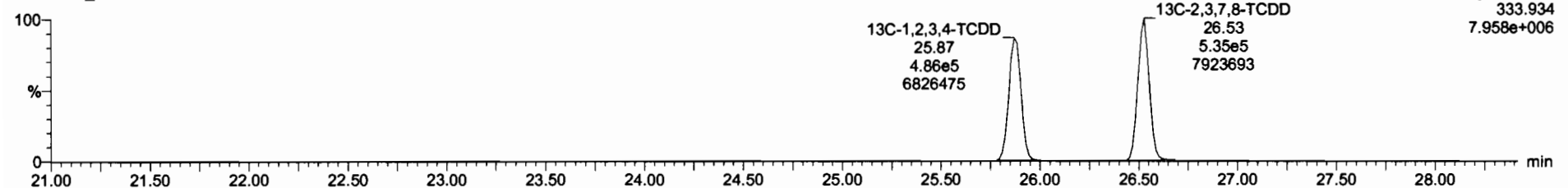


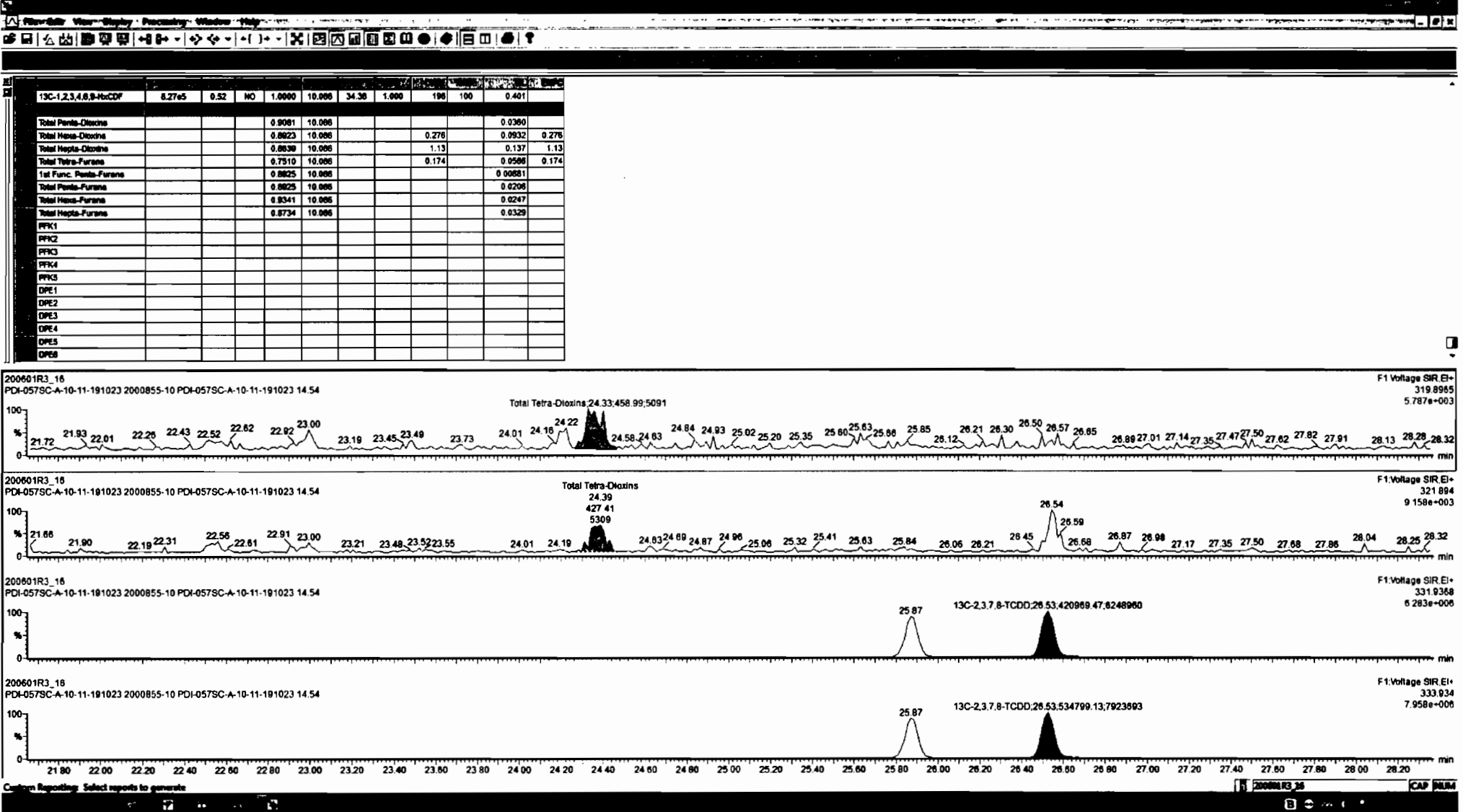
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200601R3_16



200601R3_16





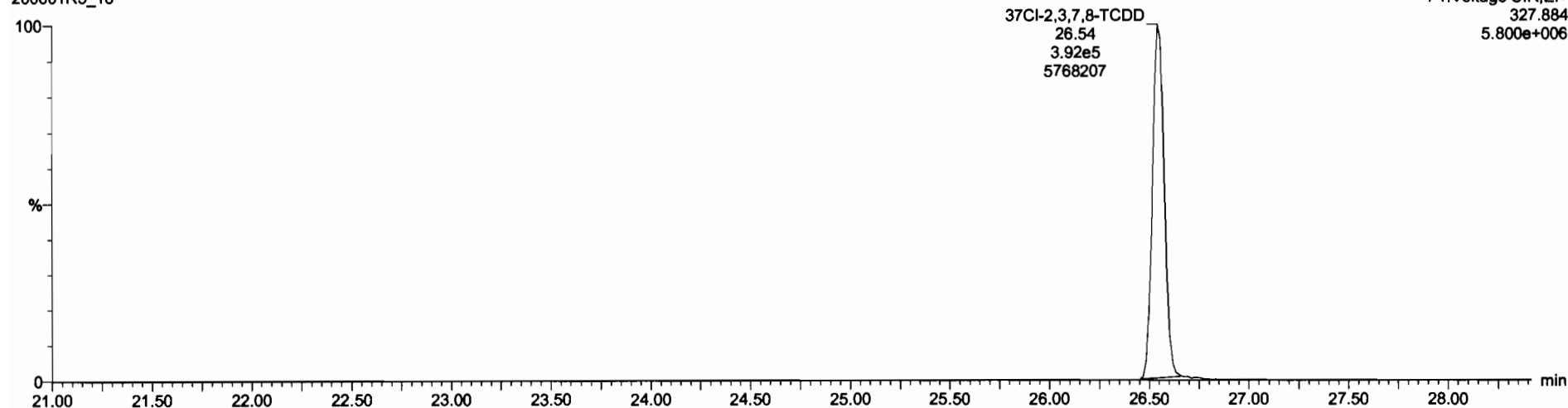
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37Cl-2,3,7,8-TCDD

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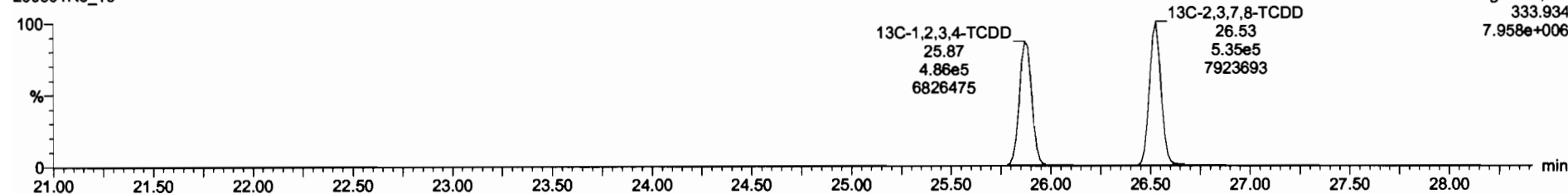


13C-1,2,3,4-TCDD

200601R3_16



200601R3_16



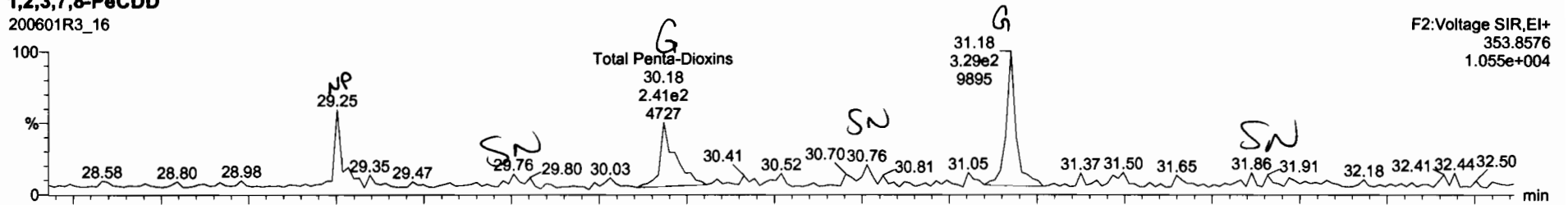
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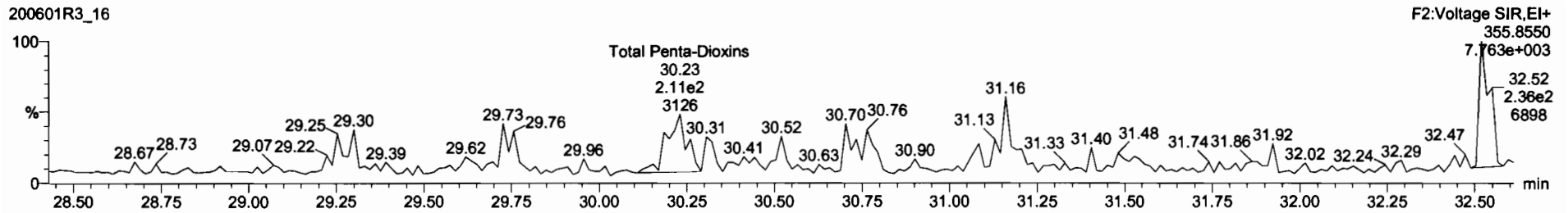
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1,2,3,7,8-PeCDD

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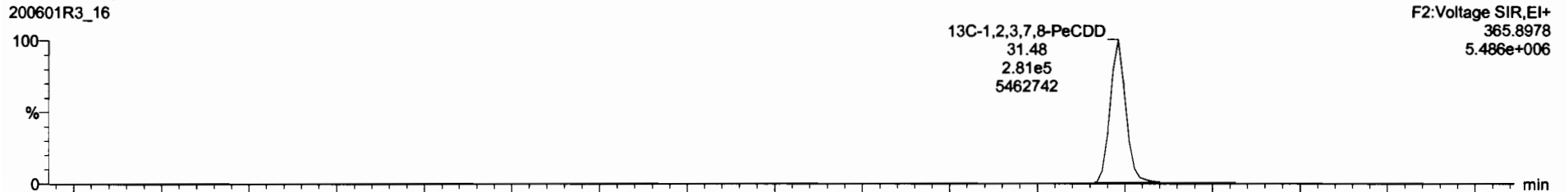


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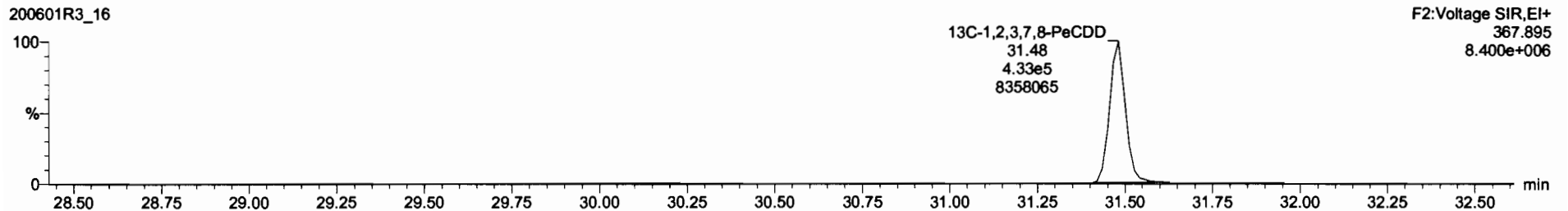


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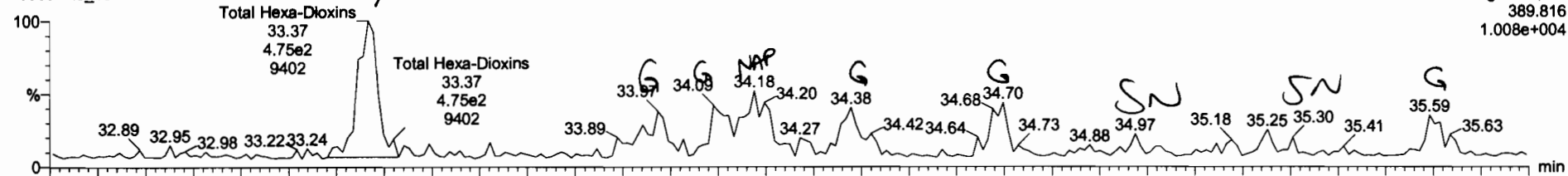
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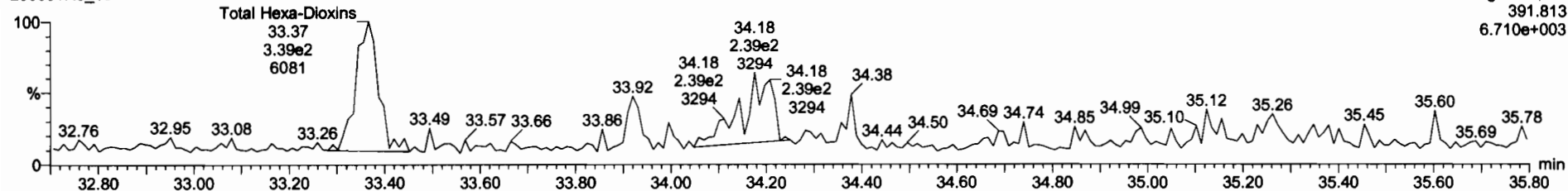
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1,2,3,4,7,8-HxCDD

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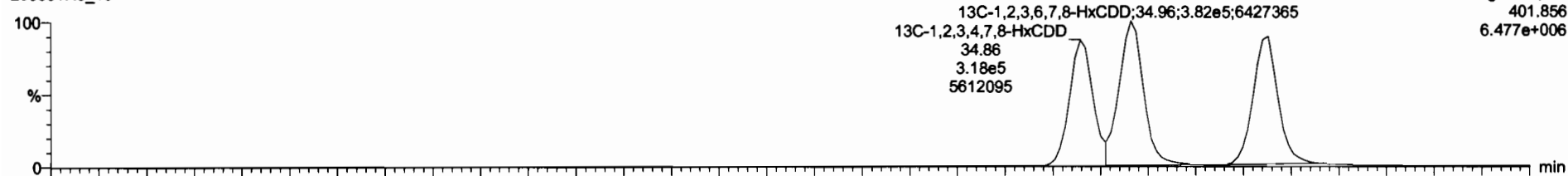


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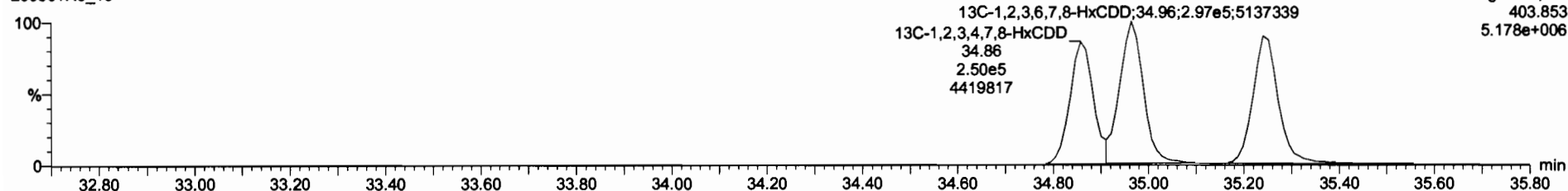


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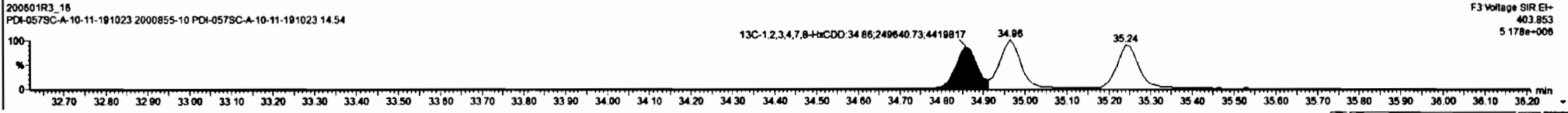
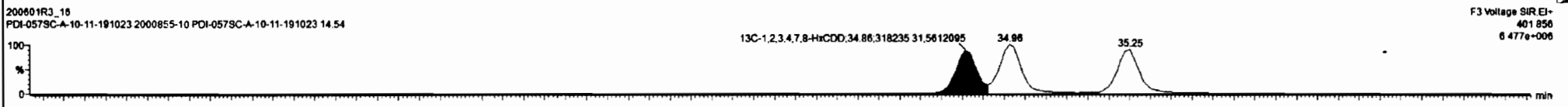
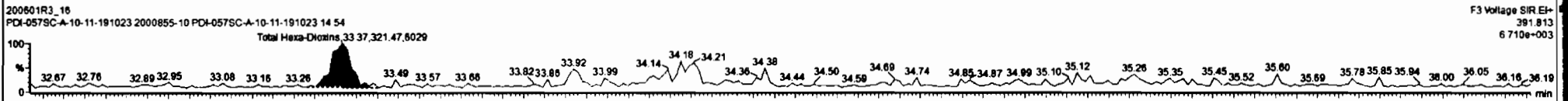
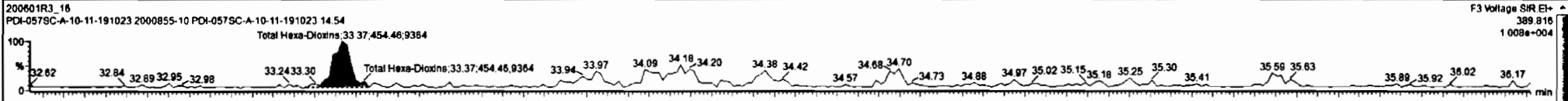
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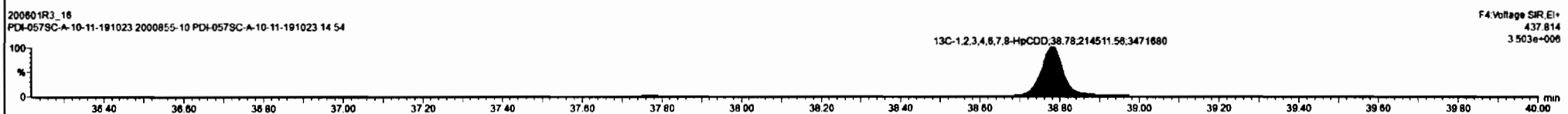
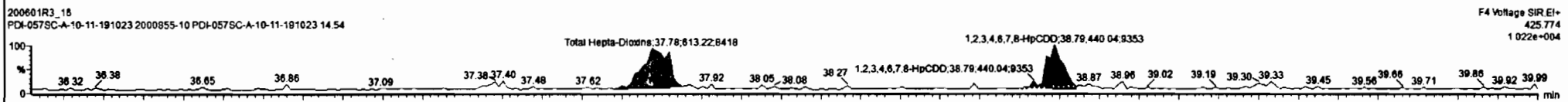
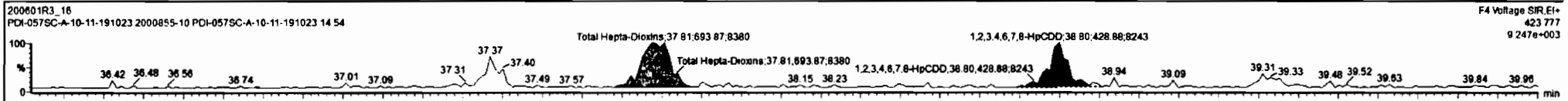
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Total Tetra-Dioxins				0.0083	10.000			0.900		0.0261	0.177
Total Penta-Dioxins				0.9001	10.000					0.0360	
Total Hepta-Dioxins				0.0030	10.000			1.13		0.137	1.13
Total Tetra-Furans				0.7510	10.000			0.174		0.0508	0.174
1st Func. Penta-Furans				0.0025	10.000					0.00881	
Total Penta-Furans				0.0025	10.000					0.0206	
Total Hexa-Furans				0.0341	10.000					0.0247	
Total Hepta-Furans				0.0734	10.000					0.0329	
PPK1											
PPK2											
PPK3											
PPK4											
PPK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



13C-1,2,3,4,6,8-HxCDF	8.27e5	0.52	NO	1.0000	10.000	34.38	1.000	198	100	0.401
Total Tetra-Dioxins				0.8683	10.000			0.900		0.0281
Total Penta-Dioxins				0.9061	10.000					0.0360
Total Hexa-Dioxins				0.8823	10.000			0.276		0.0932
Total Tetra-Furans				0.7510	10.000			0.174		0.0508
1st Func. Penta-Furans				0.8825	10.000					0.00881
Total Penta-Furans				0.8825	10.000					0.0206
Total Hexa-Furans				0.9341	10.000					0.0247
Total Hepta-Furans				0.8734	10.000					0.0329
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DFE1										
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DFE3										
DFE4										
DFE5										
DFE6										



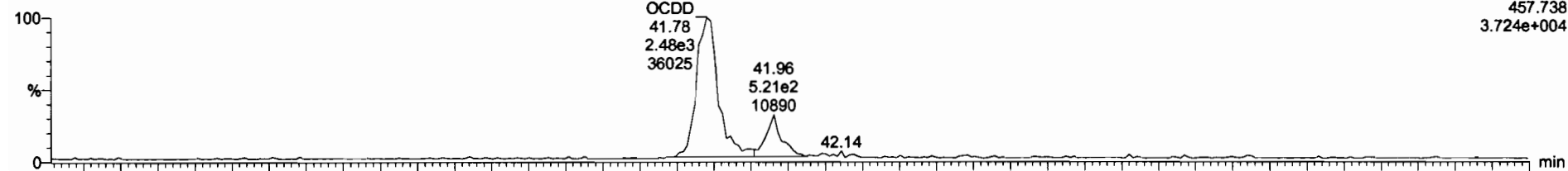
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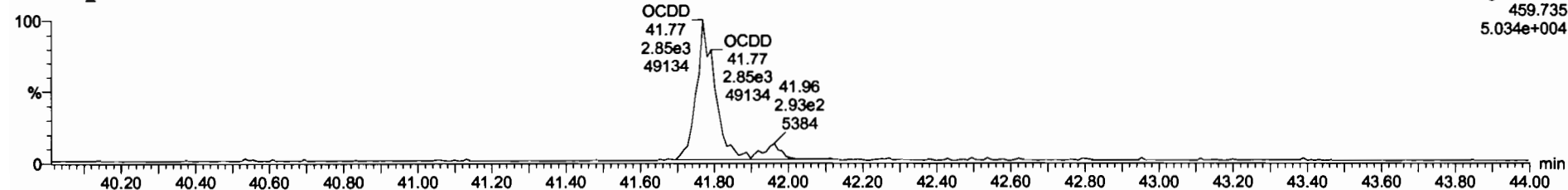
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OCDD

200601R3_16

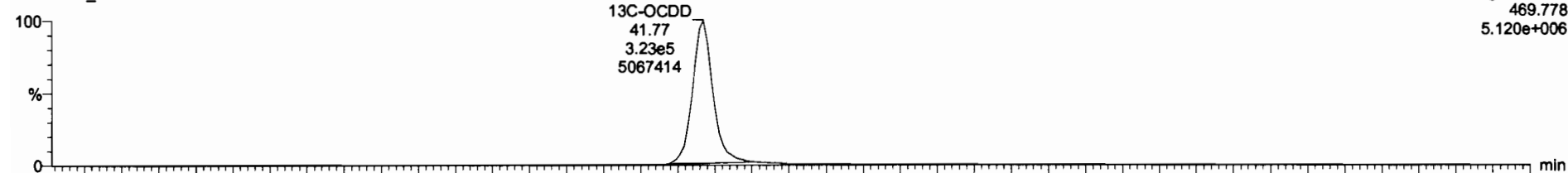


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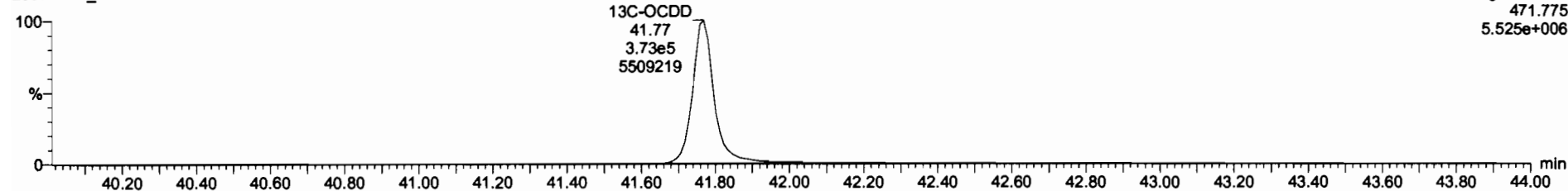


13C-OCDD

200601R3_16



200601R3_16



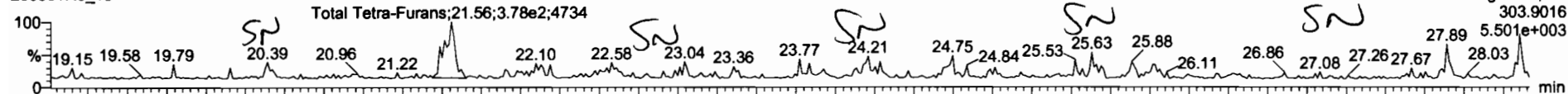
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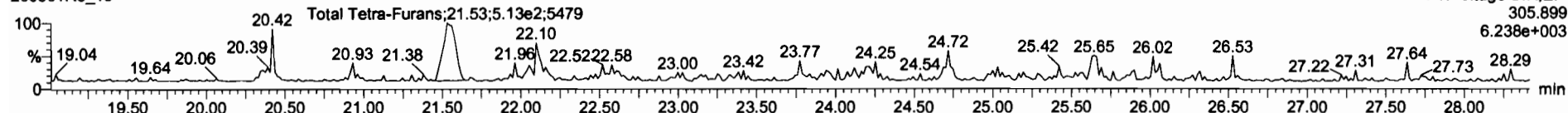
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2,3,7,8-TCDF

200601R3_16

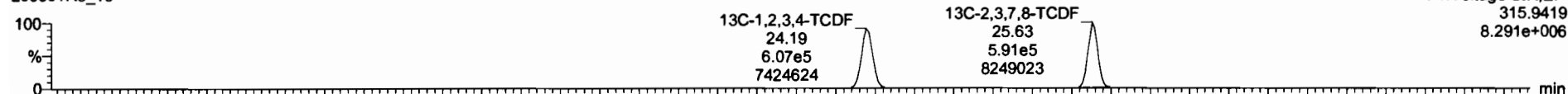


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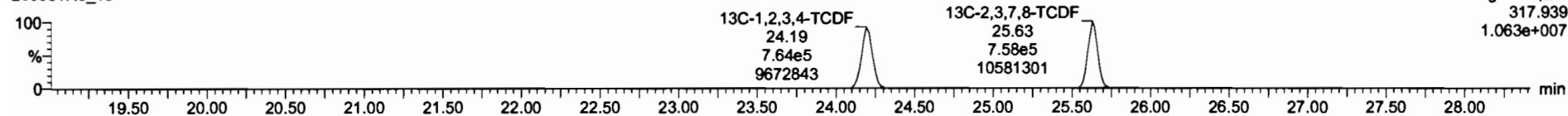


13C-2,3,7,8-TCDF

200601R3_16

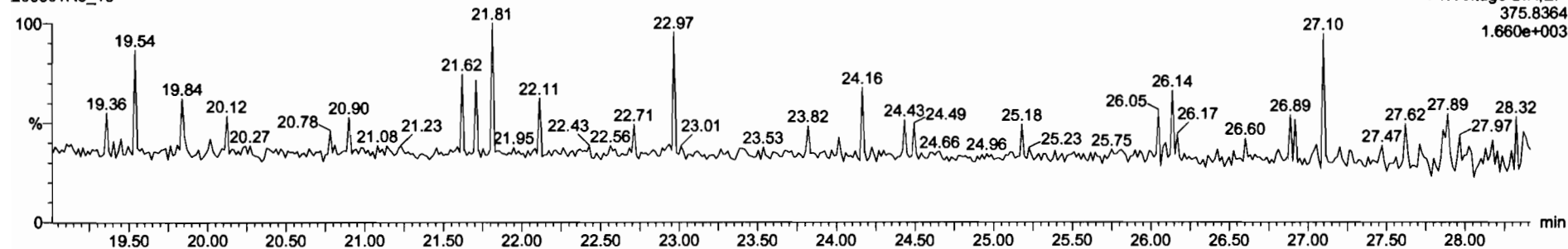


200601R3_16



DPE1

200601R3_16



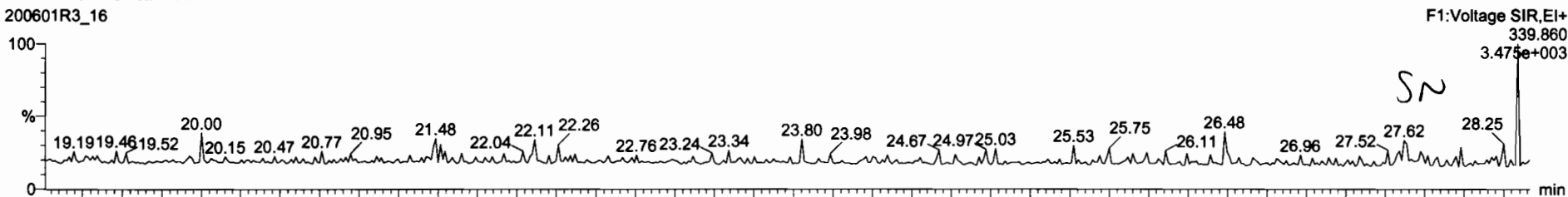
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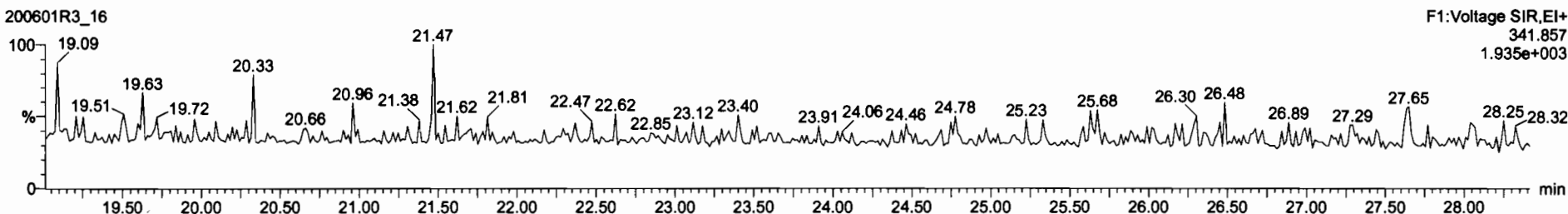
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1st Func. Penta-Furans

200601R3_16

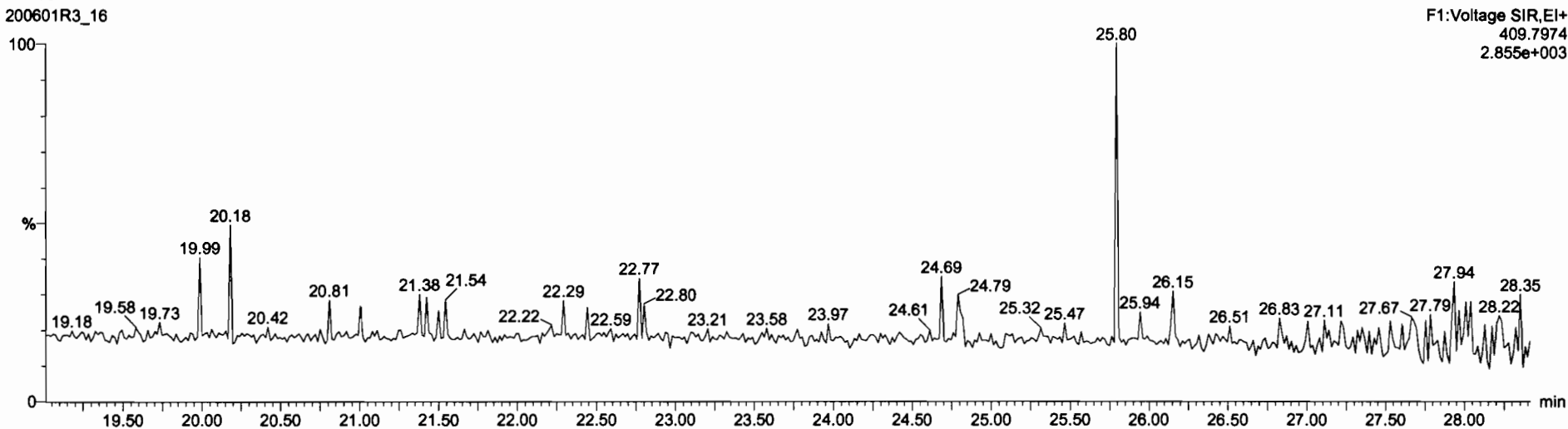


200601R3_16



DPE6

200601R3_16

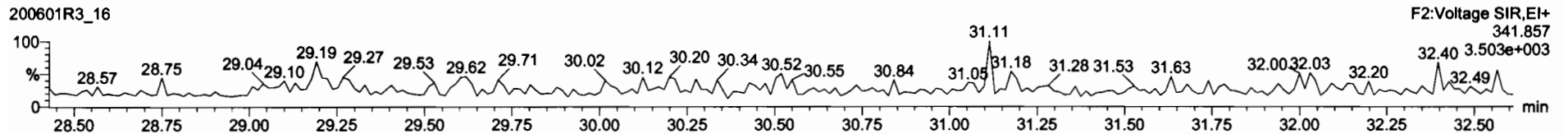
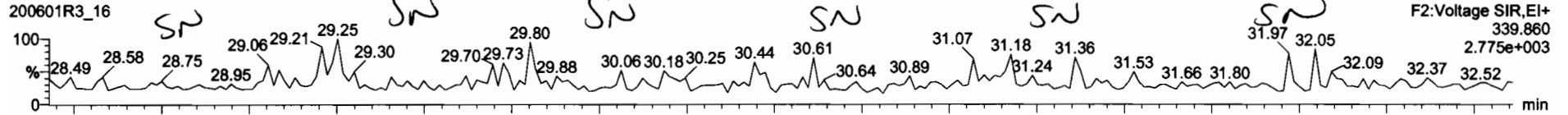


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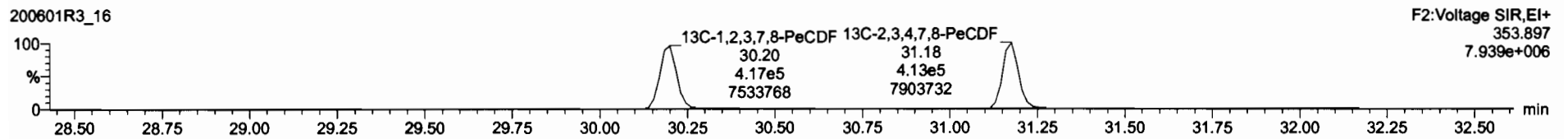
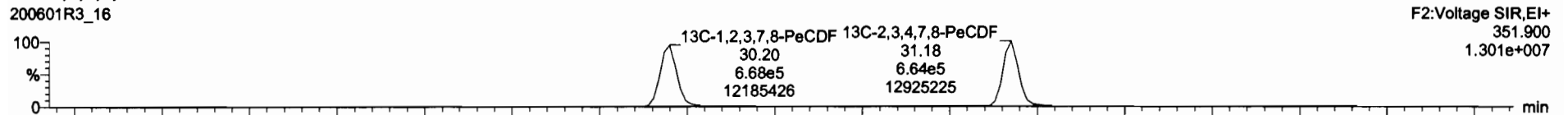
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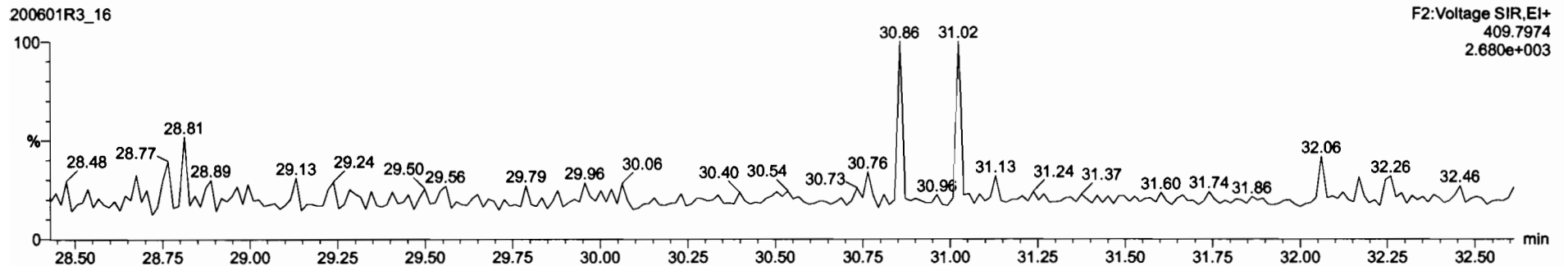
1,2,3,7,8-PeCDF



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



DPE2

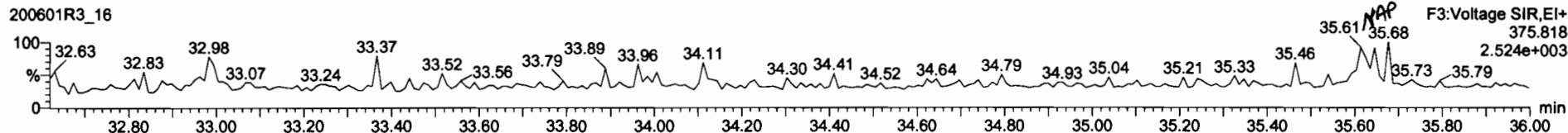
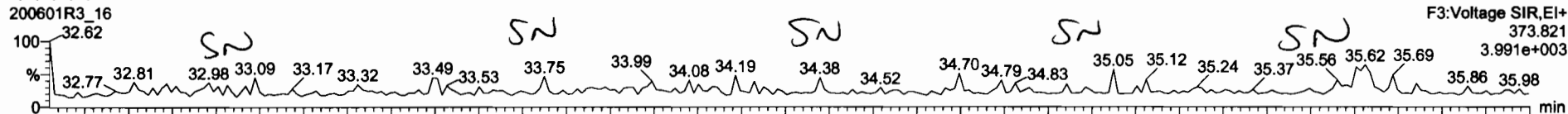


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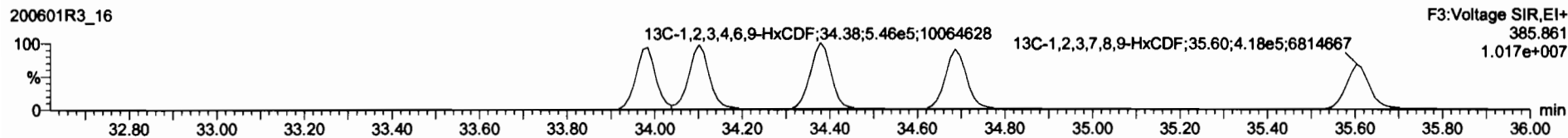
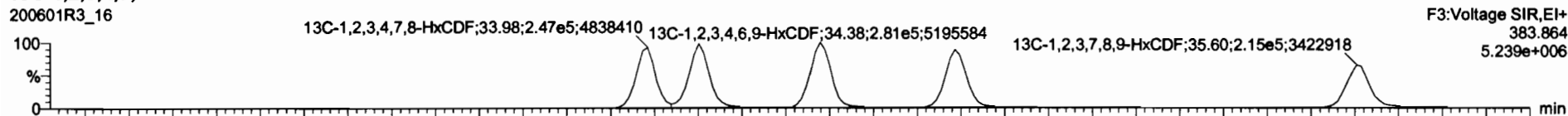
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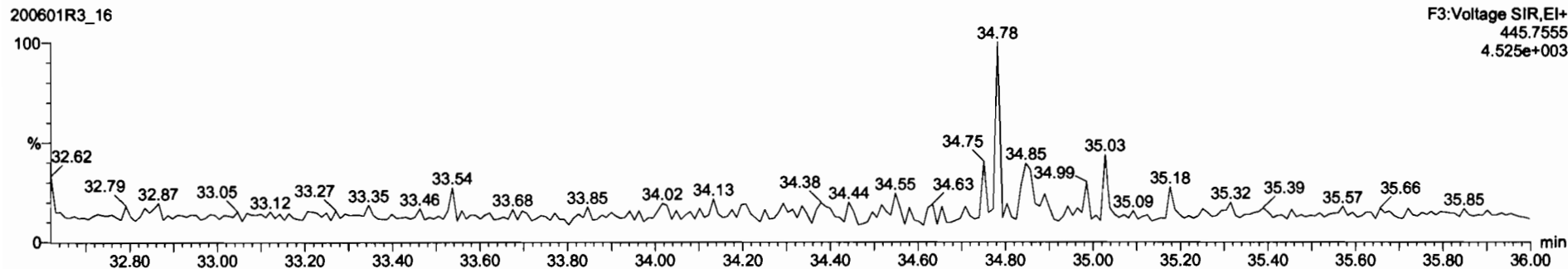
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13C-1,2,3,4,7,8-HxCDF



DPE3



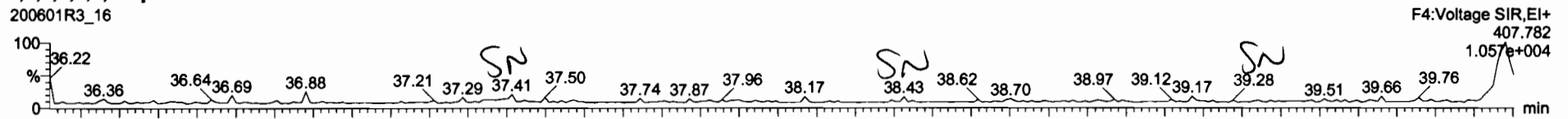
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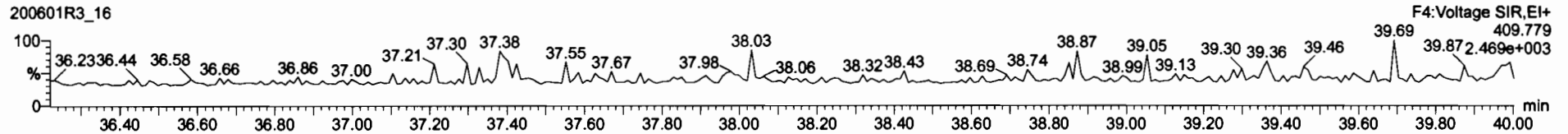
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1,2,3,4,6,7,8-HpCDF

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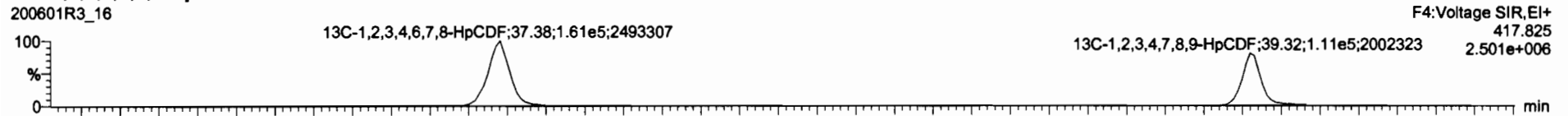


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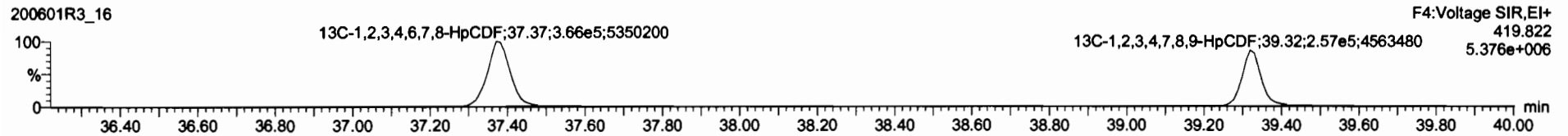


13C-1,2,3,4,6,7,8-HpCDF

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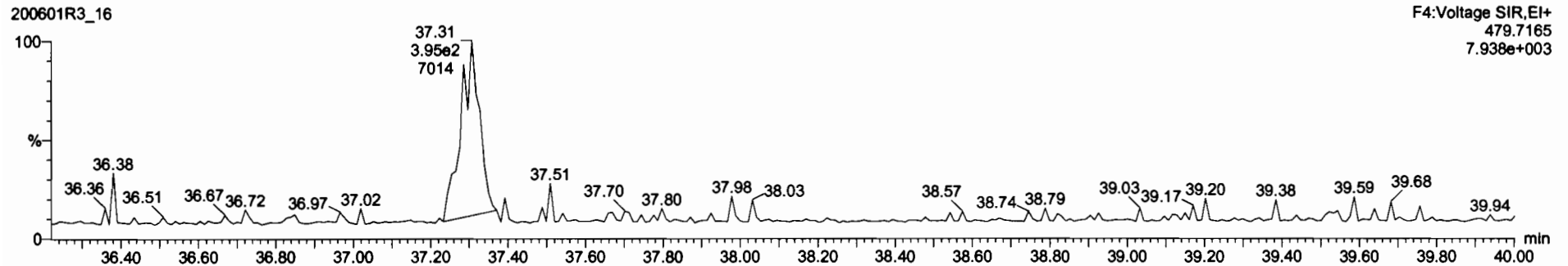


200601R3_16



DPE4

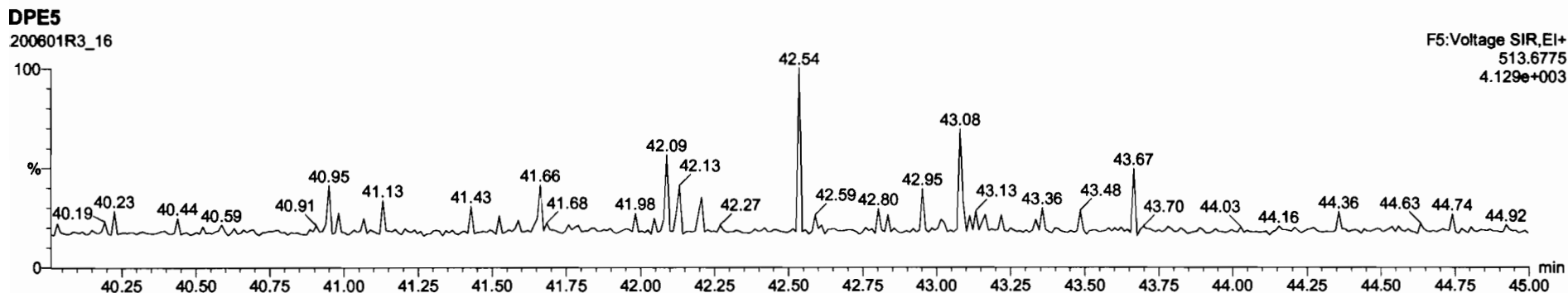
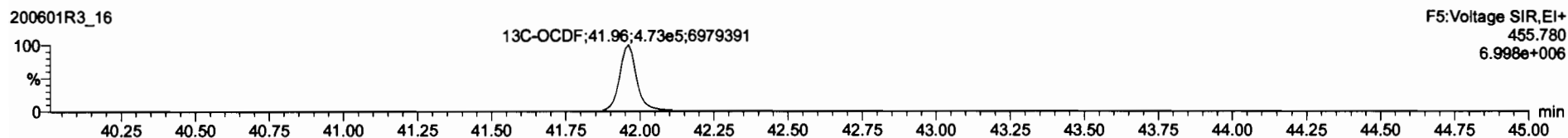
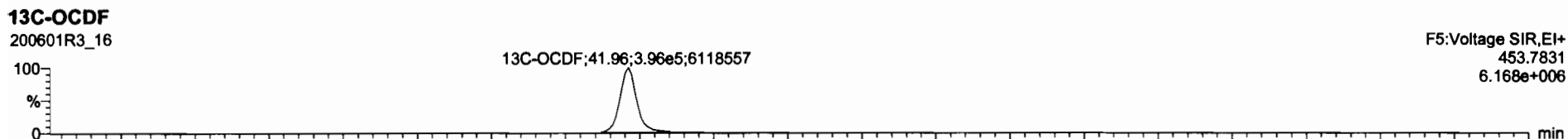
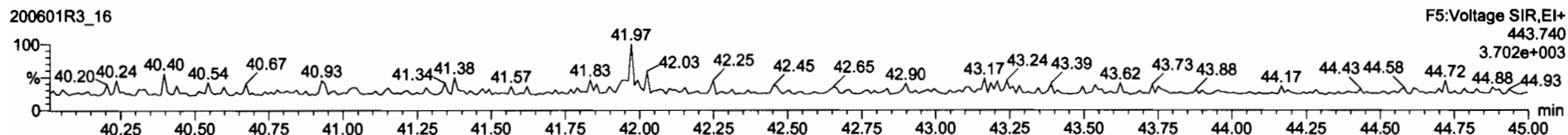
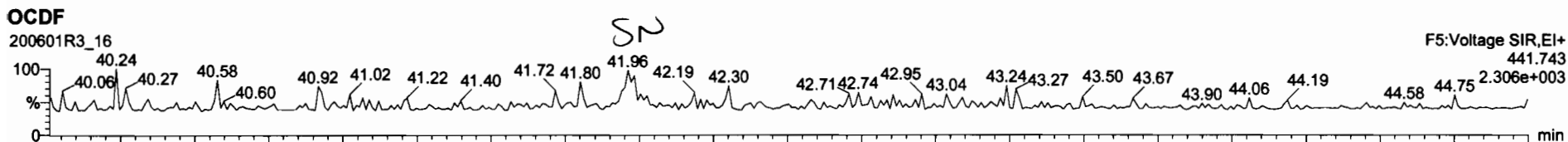
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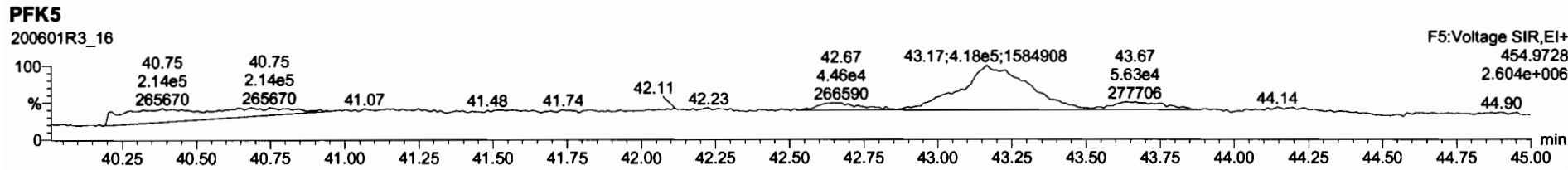
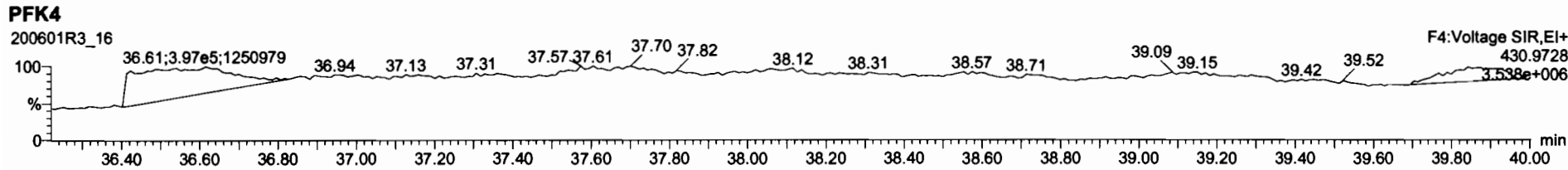
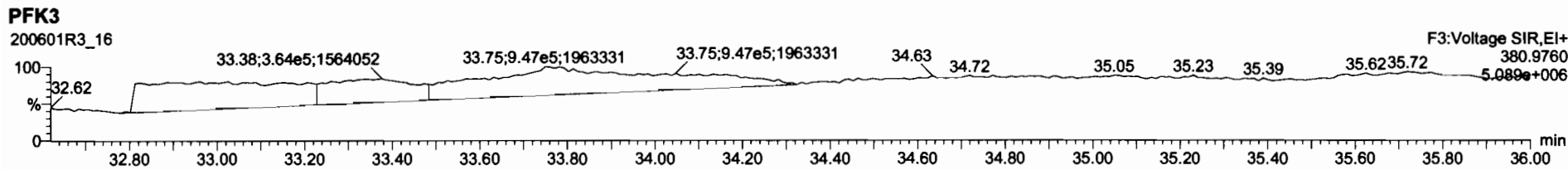
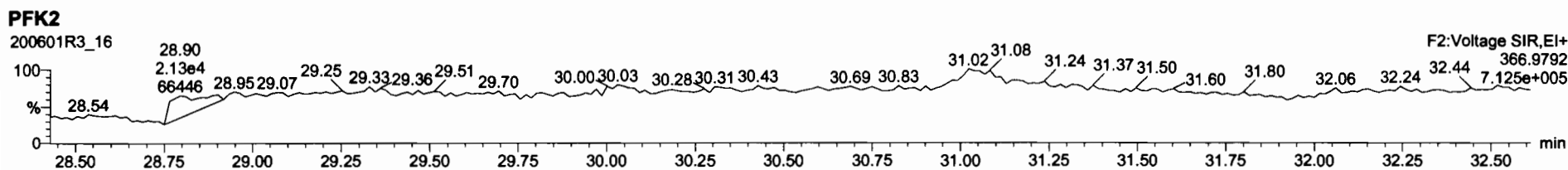
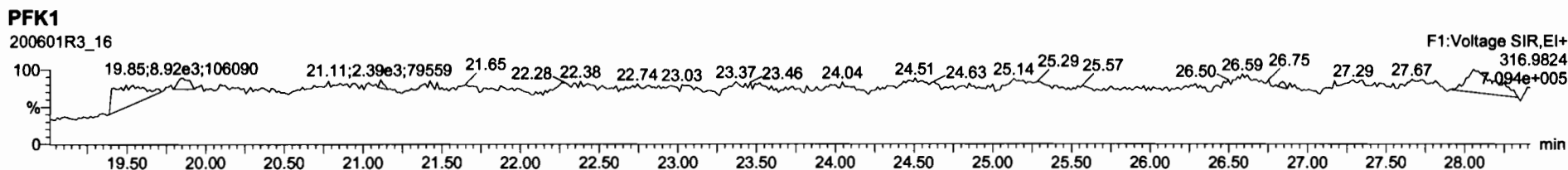
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Last Altered: Tuesday, June 02, 2020 07:15:16 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

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Dataset: U:\VG12.PRO\Results\200601R3\200601R3-17.qld

Last Altered: Tuesday, June 02, 2020 12:47:46 PM Pacific Daylight Time
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GRB 06/02/2020

CT 06/05/2020

Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
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Peak	Compound	Resp	RA	n/y	RRF	wt(%)	Prod	RT	INT	REF	Area	Conc		
1	2,3,7,8-TCDD			NO	0.888	10.042	26.546			1.001		0.0631		
2	1,2,3,7,8-PeCDD			NO	0.908	10.042	31.488			1.001		0.0703		
3	1,2,3,4,7,8-HxCDD			NO	1.03	10.042	34.857			1.000		0.0832		
4	1,2,3,6,7,8-HxCDD			NO	0.892	10.042	34.953			1.000		0.0825		
5	1,2,3,7,8,9-HxCDD			NO	0.887	10.042	35.252			1.000		0.0922		
6	1,2,3,4,6,7,8-HpCDD	1.51e3	1.03	NO	0.864	10.042	38.789	38.80		1.000	1.001	0.0834	0.792	
7	OCDD	9.92e3	0.85	NO	0.914	10.042	41.770	41.77		1.000	1.000	6.0107	0.144	6.01
8	2,3,7,8-TCDF			NO	0.751	10.042	25.641			1.001		0.0426		
9	1,2,3,7,8-PeCDF			NO	0.893	10.042	30.205			1.001		0.0358		
10	2,3,4,7,8-PeCDF			NO	0.935	10.042	31.192			1.001		0.0320		
11	1,2,3,4,7,8-HxCDF			NO	0.884	10.042	33.963			1.000		0.0463		
12	1,2,3,6,7,8-HxCDF			NO	0.889	10.042	34.100			1.000		0.0432		
13	2,3,4,6,7,8-HxCDF			NO	0.934	10.042	34.711			1.001		0.0423		
14	1,2,3,7,8,9-HxCDF			NO	0.871	10.042	35.592			1.000		0.0588		
15	1,2,3,4,6,7,8-HpCDF			NO	0.873	10.042	37.408			1.001		0.0659		
16	1,2,3,4,7,8,9-HpCDF			NO	1.01	10.042	39.320			1.000		0.0652		
17	OCDF			NO	0.806	10.042	41.961			1.000		0.0769		
18	13C-2,3,7,8-TCDD	8.42e5	0.79	NO	1.16	10.042	26.553	26.51		1.026	1.025	166.86	83.8	0.223
19	13C-1,2,3,7,8-PeCDD	6.40e5	0.64	NO	0.849	10.042	31.748	31.47		1.227	1.216	172.80	86.8	0.226
20	13C-1,2,3,4,7,8-HxCDD	5.26e5	1.29	NO	0.779	10.042	34.852	34.85		1.014	1.014	173.49	87.1	0.424
21	13C-1,2,3,6,7,8-HxCDD	6.45e5	1.29	NO	1.02	10.042	34.965	34.95		1.017	1.017	162.96	81.8	0.325
22	13C-1,2,3,7,8,9-HxCDD	6.11e5	1.27	NO	0.903	10.042	35.236	35.24		1.025	1.025	174.01	87.4	0.366
23	13C-1,2,3,4,6,7,8-HpCDD	4.40e5	1.05	NO	0.689	10.042	38.763	38.78		1.128	1.128	164.21	82.5	0.362
24	13C-OCDD	7.19e5	0.94	NO	0.652	10.042	41.787	41.77		1.216	1.215	283.42	71.2	0.393
25	13C-2,3,7,8-TCDF	1.11e6	0.77	NO	1.06	10.042	25.593	25.61		0.989	0.990	156.10	78.4	0.244
26	13C-1,2,3,7,8-PeCDF	9.61e5	1.63	NO	0.838	10.042	30.128	30.18		1.165	1.167	170.57	85.6	0.293
27	13C-2,3,4,7,8-PeCDF	9.62e5	1.64	NO	0.817	10.042	31.083	31.16		1.202	1.205	175.23	88.0	0.300
28	13C-1,2,3,4,7,8-HxCDF	6.72e5	0.51	NO	1.01	10.042	33.982	33.96		0.989	0.988	171.33	86.0	0.382
29	13C-1,2,3,6,7,8-HxCDF	7.39e5	0.51	NO	1.17	10.042	34.106	34.09		0.992	0.992	162.72	81.7	0.330
30	13C-2,3,4,6,7,8-HxCDF	7.16e5	0.50	NO	1.02	10.042	34.680	34.68		1.009	1.009	180.09	90.4	0.376
31	13C-1,2,3,7,8,9-HxCDF	6.03e5	0.51	NO	0.860	10.042	35.580	35.59		1.035	1.036	180.17	90.5	0.447

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-17.qld

Last Altered: Tuesday, June 02, 2020 12:47:46 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 12:53:09 PM Pacific Daylight Time

Name: 200601R3_17, Date: 02-Jun-2020, Time: 03:24:43, ID: 2000855-11 PDI-057SC-A-11-12-191023 13.63, Description: PDI-057SC-A-11-12-191023

	Peak	Area	Ratio	Int	RF	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	RF10	RF11	RF12	RF13	RF14	RF15	RF16	RF17	RF18	RF19	RF20	
32	13C-1,2,3,4,6,7,8-HpCDF	5.00e5	0.43	NO	0.774	10.042	37.329	37.37	1.086	1.087	165.80	83.2	0.392													
33	13C-1,2,3,4,7,8,9-HpCDF	3.65e5	0.44	NO	0.521	10.042	39.361	39.32	1.145	1.144	180.16	90.5	0.582													
34	13C-OCDF	8.70e5	0.88	NO	0.746	10.042	41.959	41.96	1.221	1.221	299.76	75.3	0.300													
35	37Cl-2,3,7,8-TCDD	3.28e5			1.04	10.042	26.584	26.54	1.028	1.026	72.545	91.1	0.0377													
36	13C-1,2,3,4-TCDD	8.69e5	0.81	NO	1.00	10.042	25.890	25.87	1.000	1.000	199.16	100	0.257													
37	13C-1,2,3,4-TCDF	1.34e6	0.80	NO	1.00	10.042	24.360	24.19	1.000	1.000	199.16	100	0.258													
38	13C-1,2,3,4,6,9-HxCDF	7.75e5	0.51	NO	1.00	10.042	34.420	34.37	1.000	1.000	199.16	100	0.385													
39	Total Tetra-Dioxins				0.888	10.042	24.620		0.000		0.00000		0.0272													0.0646
40	Total Penta-Dioxins				0.908	10.042	29.960		0.000				0.0287													
41	Total Hexa-Dioxins				0.892	10.042	33.635		0.000		0.48971		0.0897													0.490
42	Total Hepta-Dioxins				0.864	10.042	37.640		0.000		2.1008		0.0834													2.10
43	Total Tetra-Furans				0.751	10.042	23.610		0.000				0.0201													
44	1st Func. Penta-Furans				0.893	10.042	27.580		0.000				0.00805													
45	Total Penta-Furans				0.893	10.042	29.275		0.000				0.0163													
46	Total Hexa-Furans				0.934	10.042	33.555		0.000				0.0211													
47	Total Hepta-Furans				0.873	10.042	37.835		0.000				0.0327													

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-17.qld

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

Name: 200601R3_17, Date: 02-Jun-2020, Time: 03:24:43, ID: 2000855-11 PDI-057SC-A-11-12-191023 13.63, Description: PDI-057SC-A-11-12-191023

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Cons	EMFG	DL
Total Tetra-Dioxins	24.37	2.544e3	1.757e3	1.319e2	1.371e2	0.96	YES	0.000e0	0.00000	0.064608	0.0272

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Cons	EMFG	DL

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Cons	EMFG	DL
Total Hexa-Dioxins	33.36	1.285e4	1.055e4	7.194e2	5.838e2	1.23	NO	1.303e3	0.48971	0.48971	0.0897

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Cons	EMFG	DL
Total Hepta-Dioxins	37.78	1.887e4	2.166e4	1.266e3	1.234e3	1.03	NO	2.500e3	1.3088	1.3088	0.0834
1,2,3,4,6,7,8-HpCDD	38.80	1.657e4	1.521e4	7.659e2	7.470e2	1.03	NO	1.513e3	0.79198	0.79198	0.0834

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Cons	EMFG	DL

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Hy	Resp	Cons	EMFG	DL

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-17.qld

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Penta-Furans

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

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

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	m1	m2	Resp	Conc	EMPC	DL
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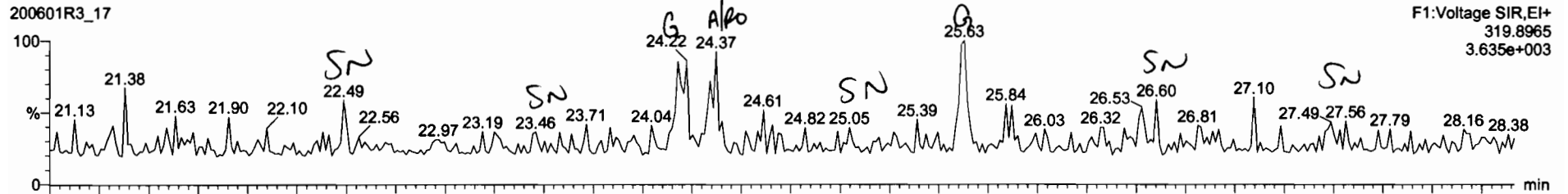
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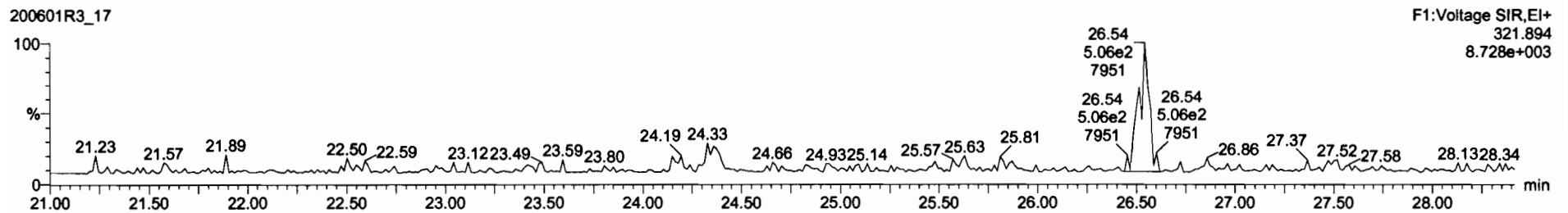
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2,3,7,8-TCDD

200601R3_17

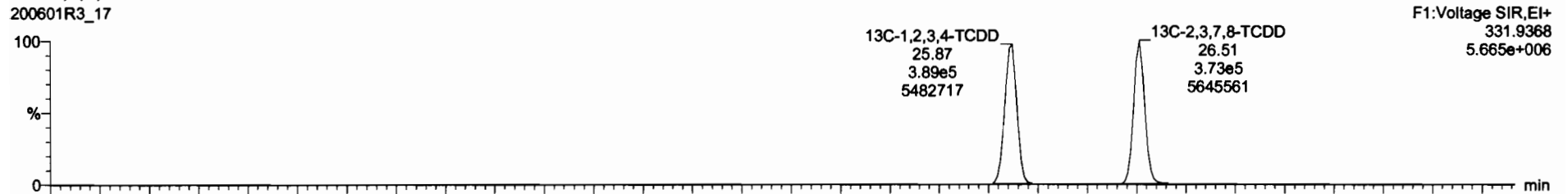


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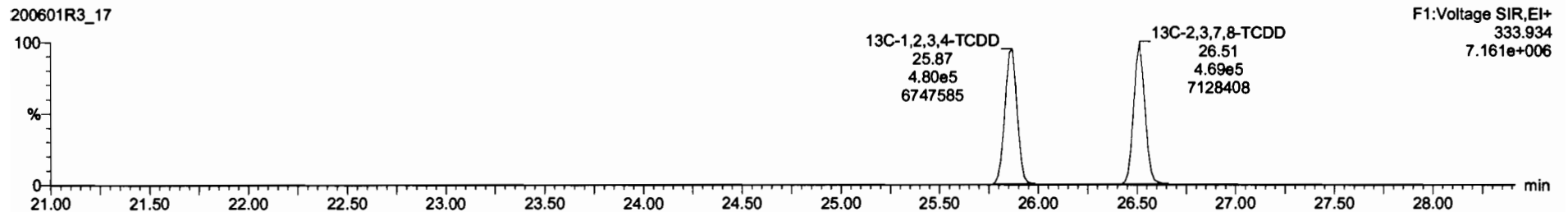


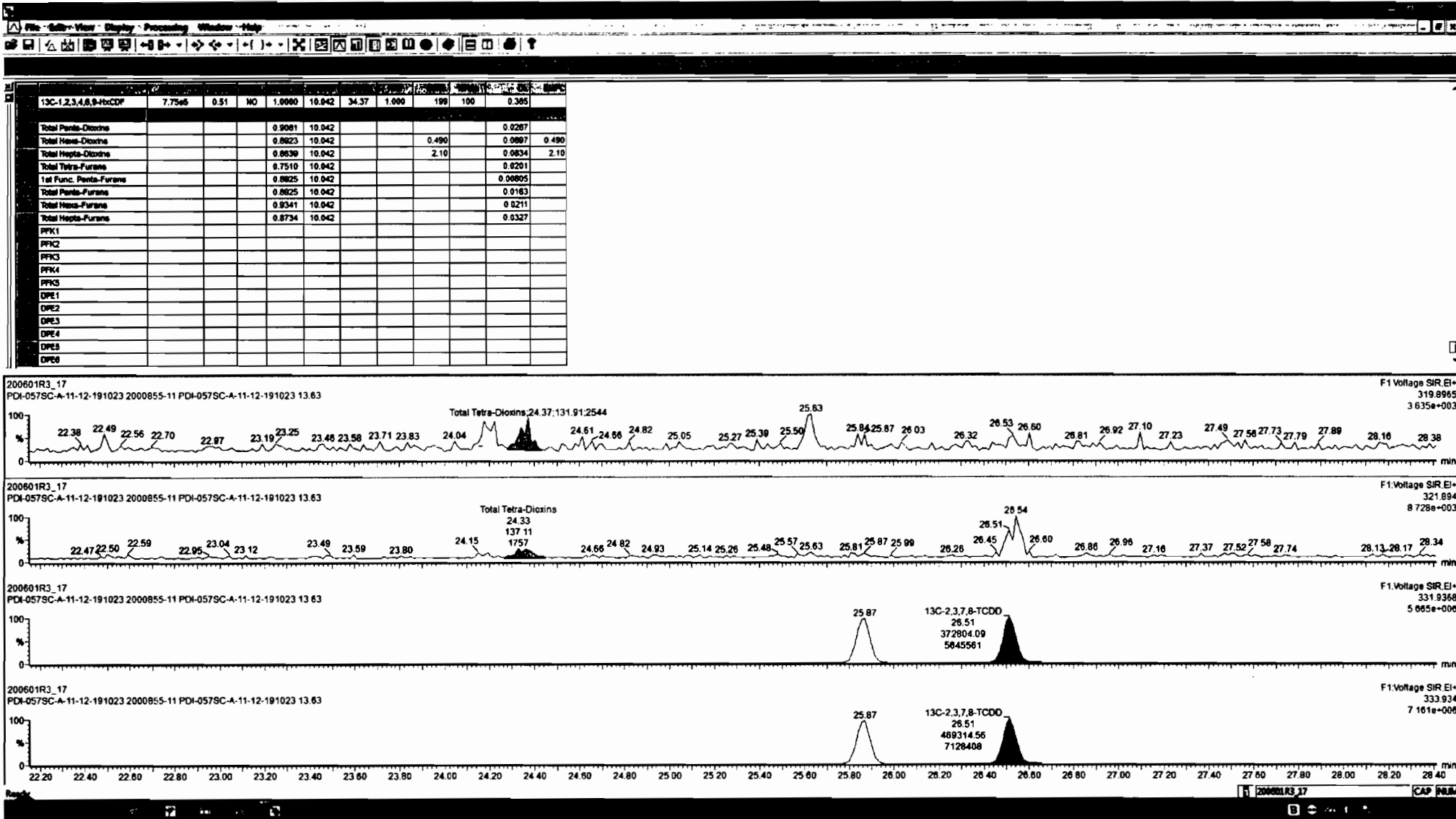
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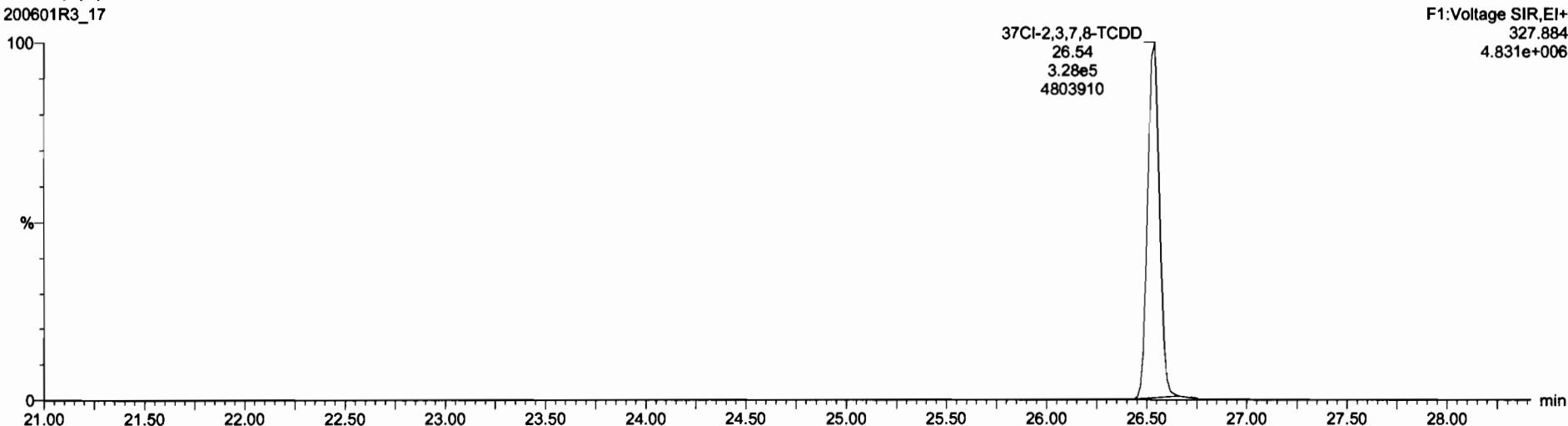


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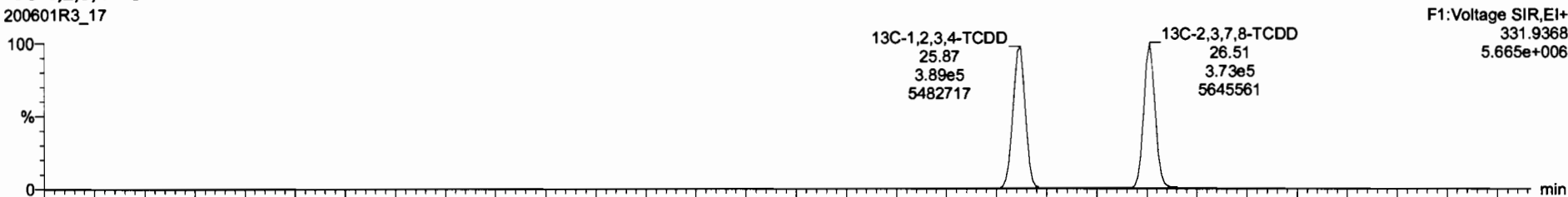
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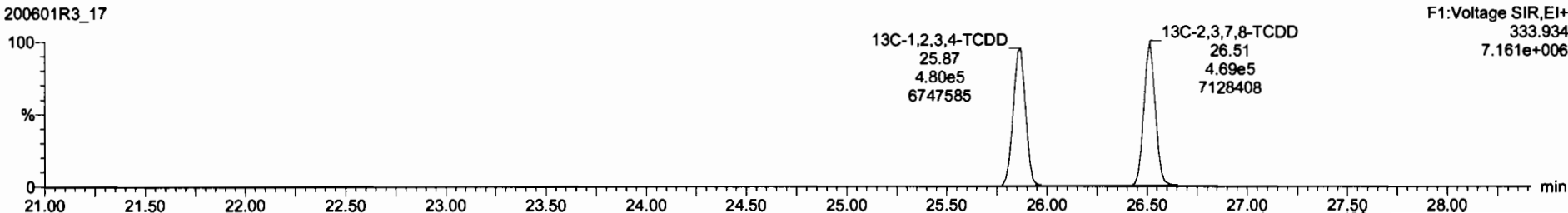
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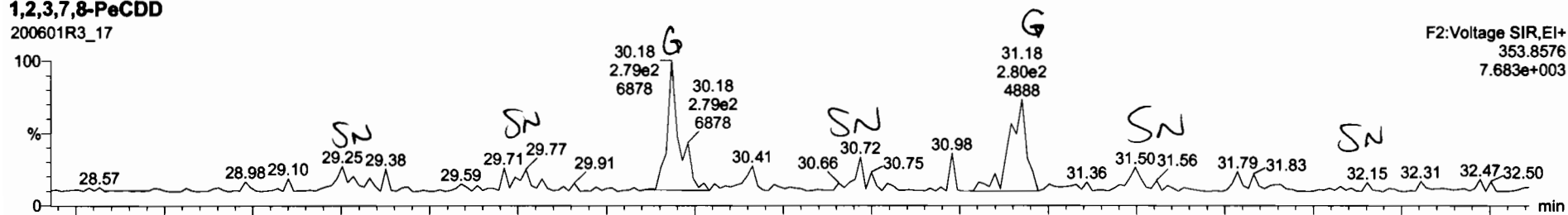
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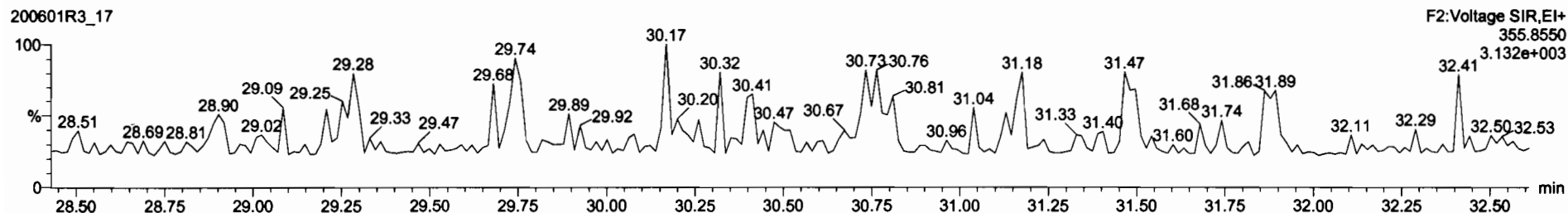
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1,2,3,7,8-PeCDD

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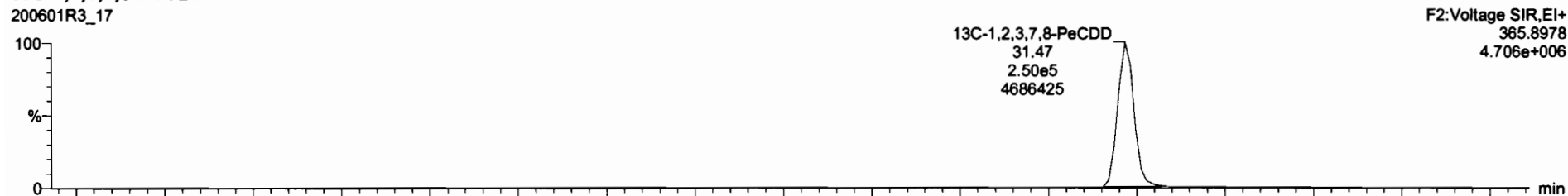


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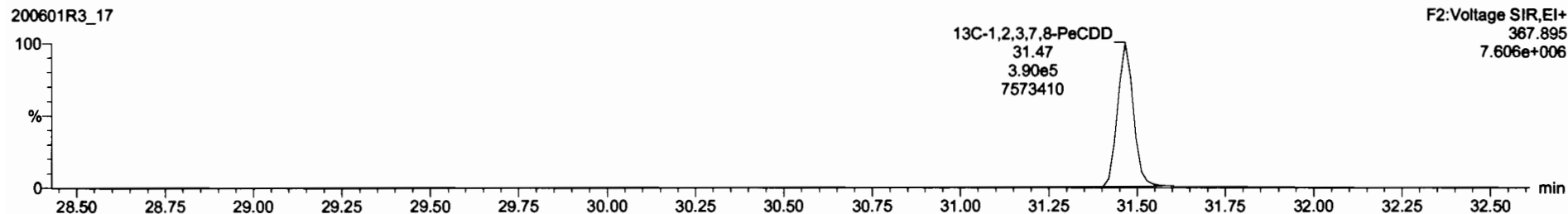


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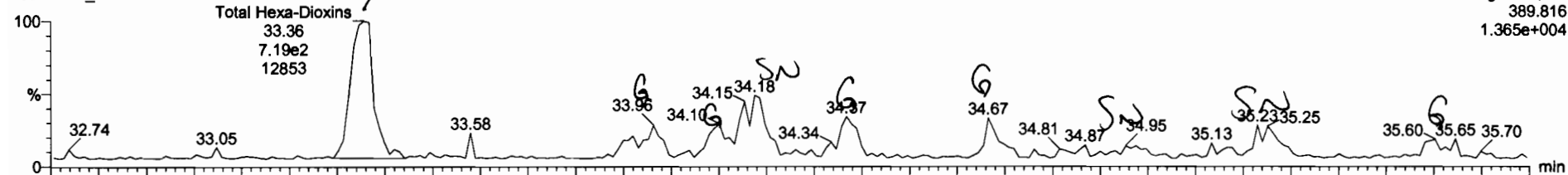
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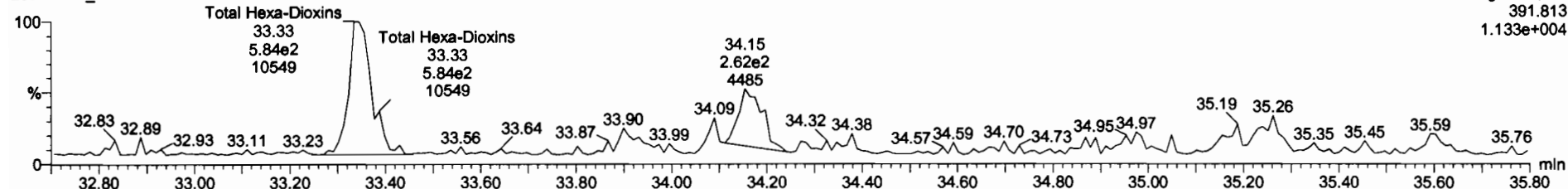
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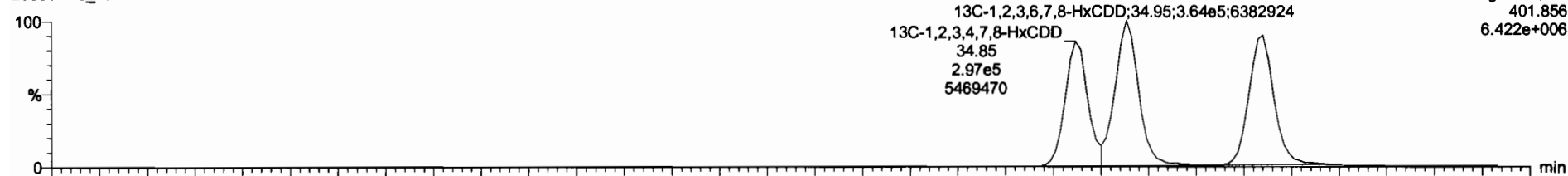


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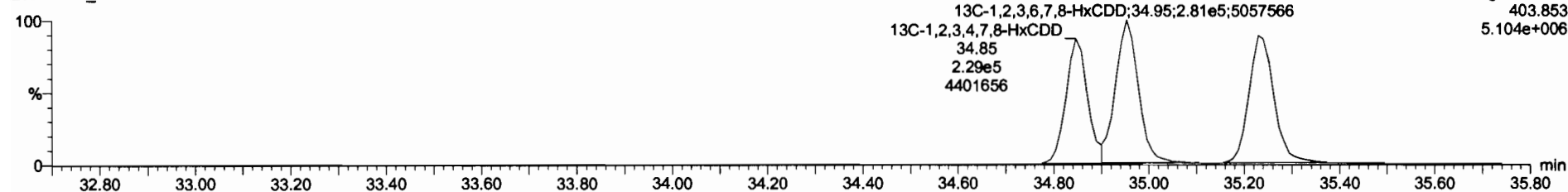


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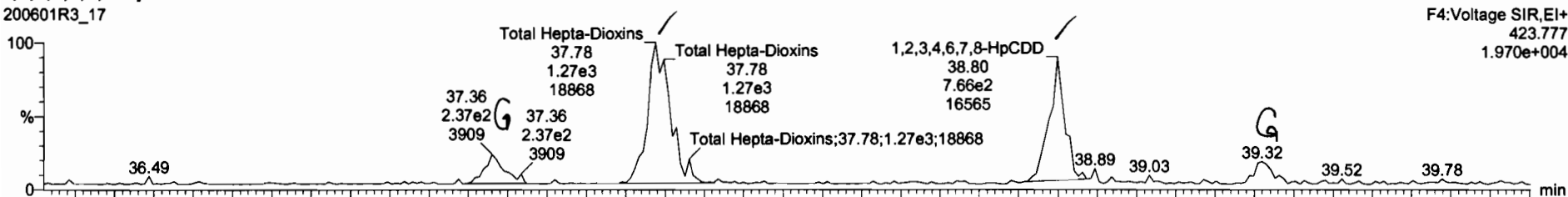
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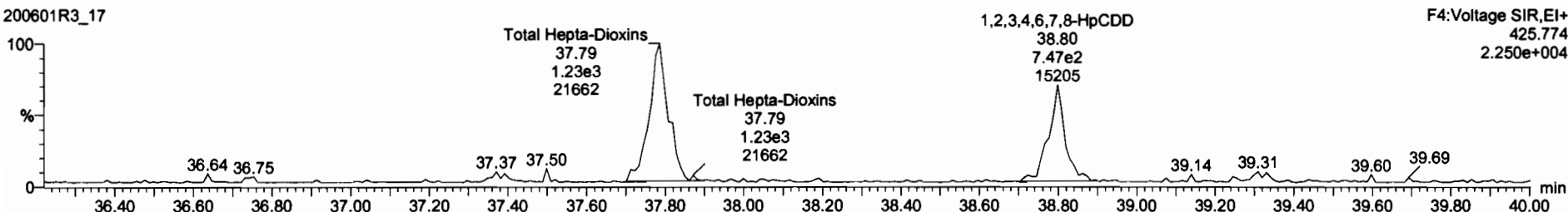
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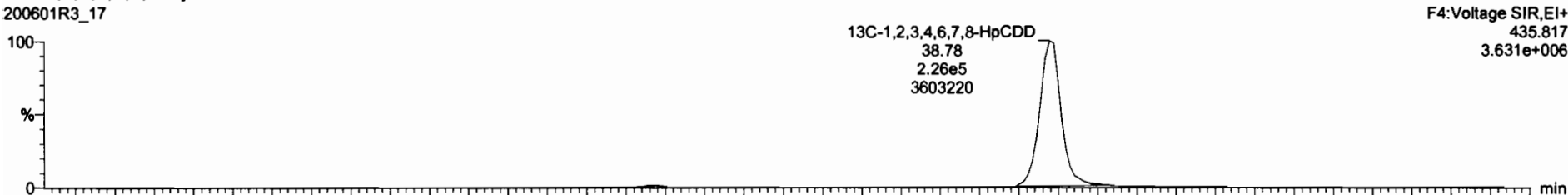


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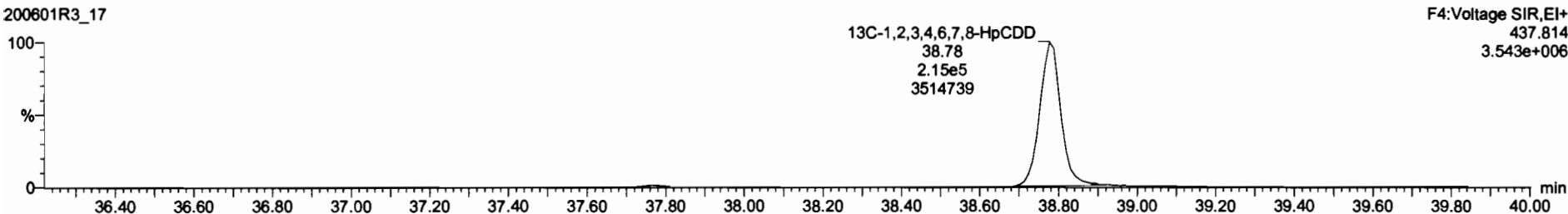


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200601R3_17



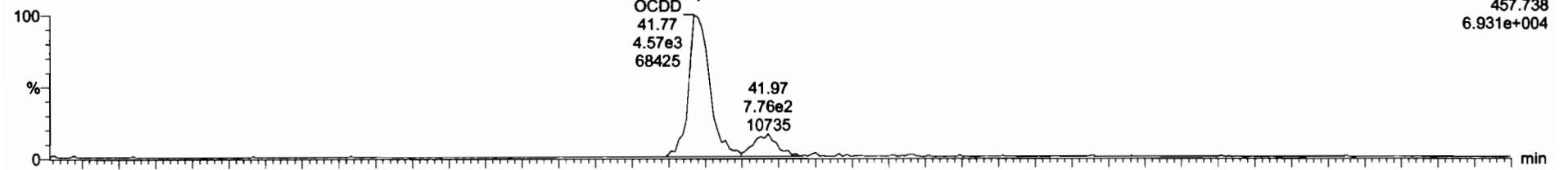
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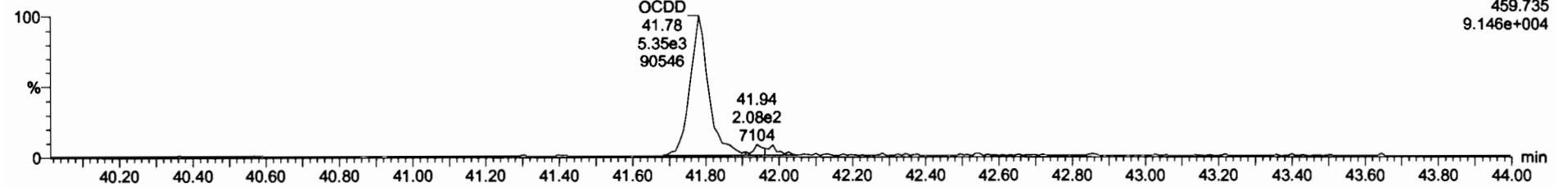
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OCDD

200601R3_17

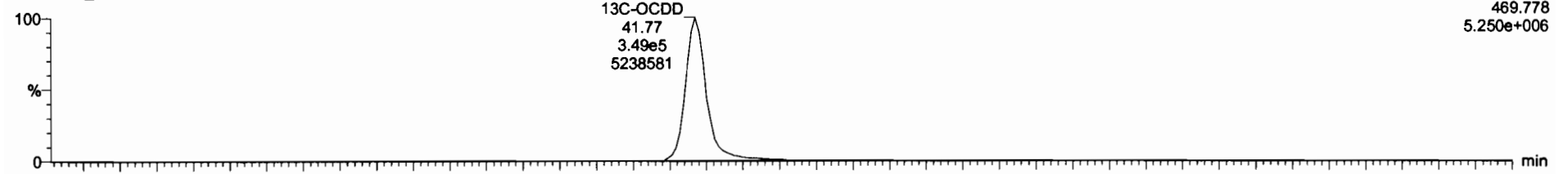


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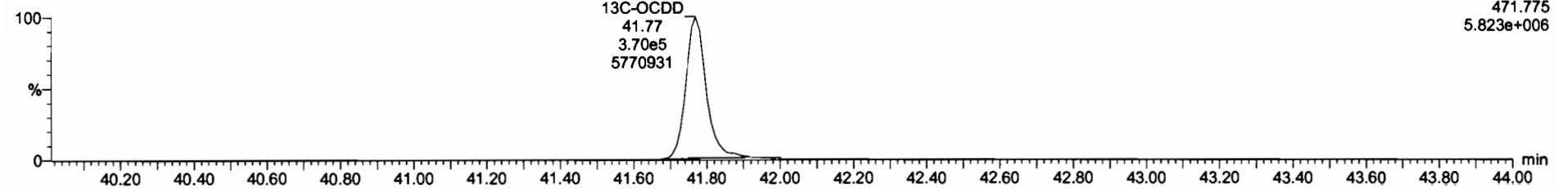


13C-OCDD

200601R3_17



200601R3_17



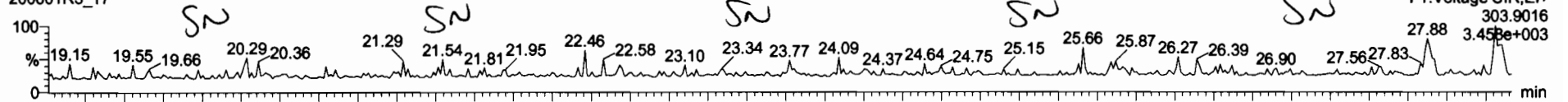
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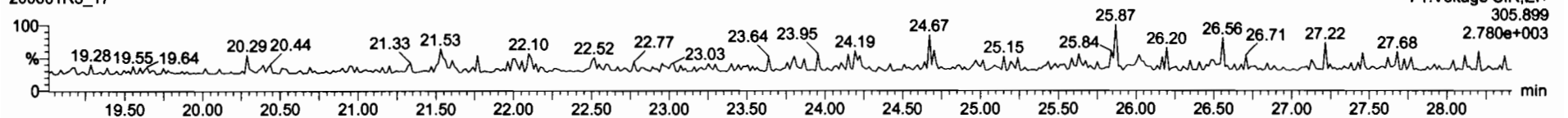
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2,3,7,8-TCDF

200601R3_17

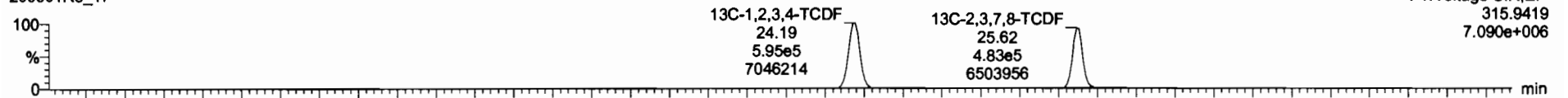


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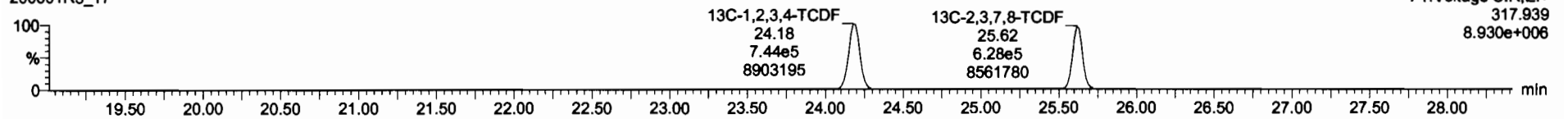


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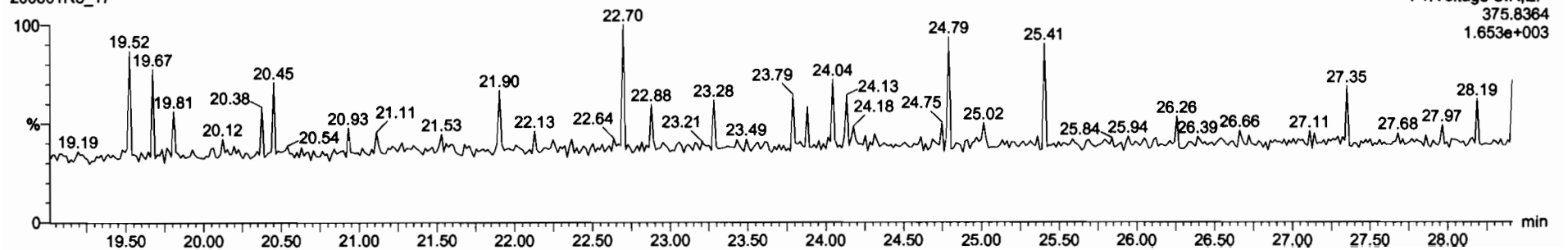


200601R3_17



DPE1

200601R3_17



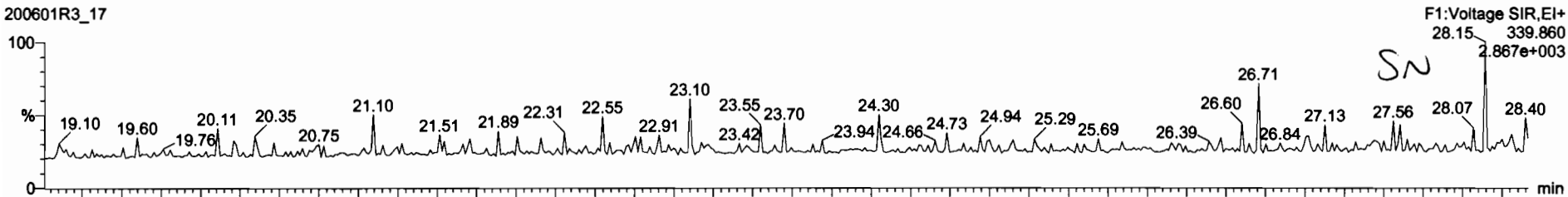
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

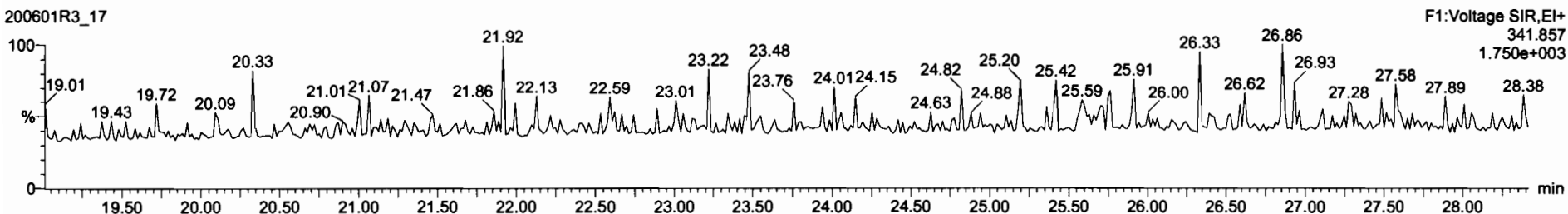
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1st Func. Penta-Furans

200601R3_17

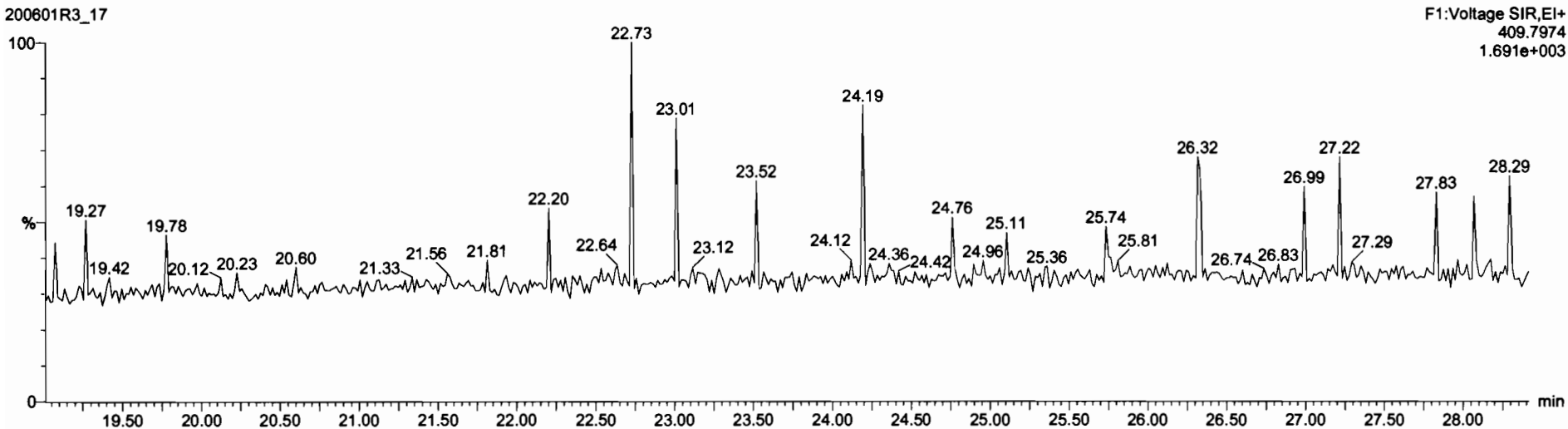


200601R3_17



DPE6

200601R3_17

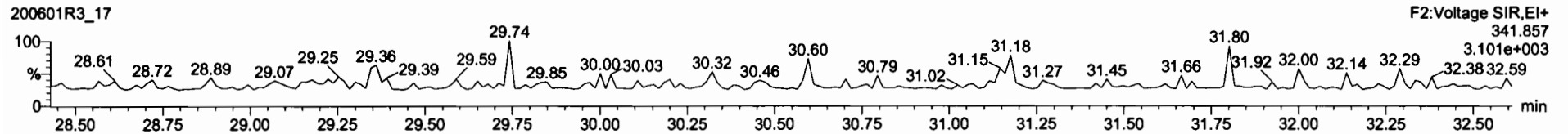
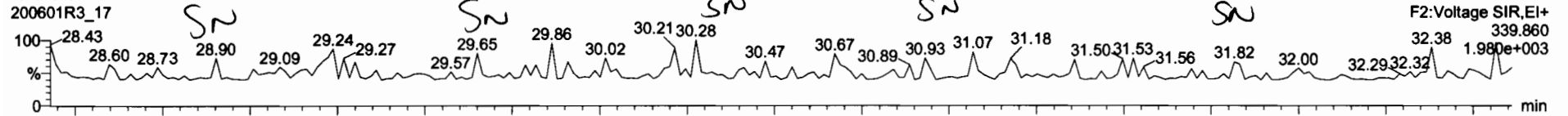


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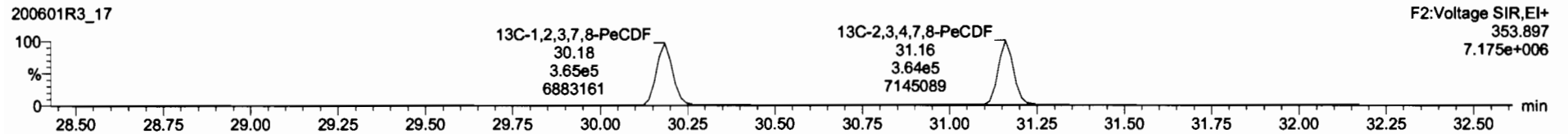
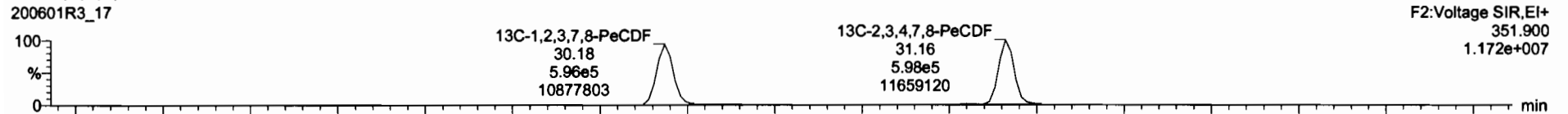
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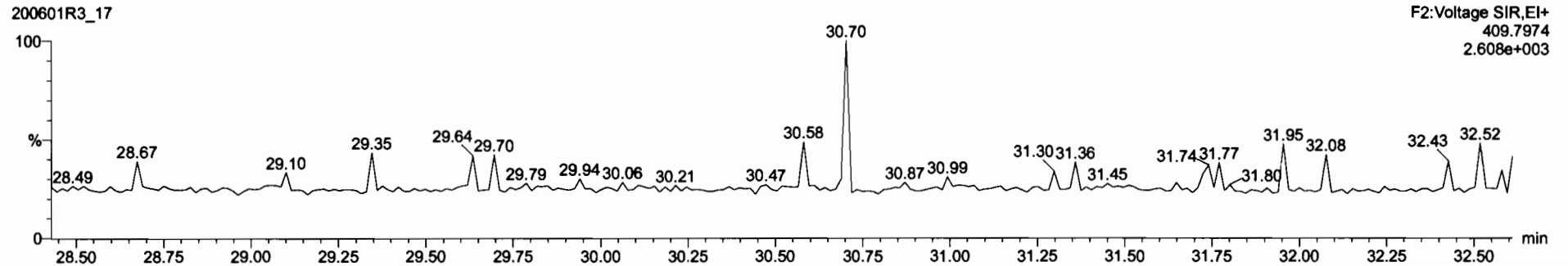
1,2,3,7,8-PeCDF



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



DPE2

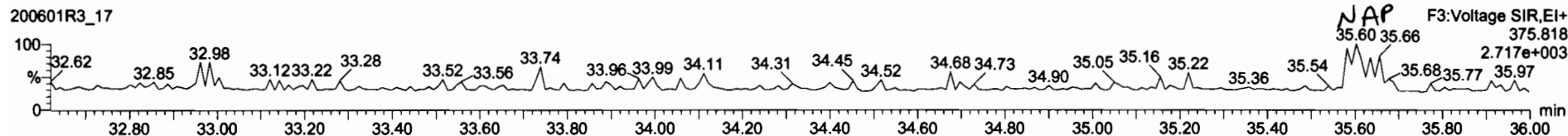
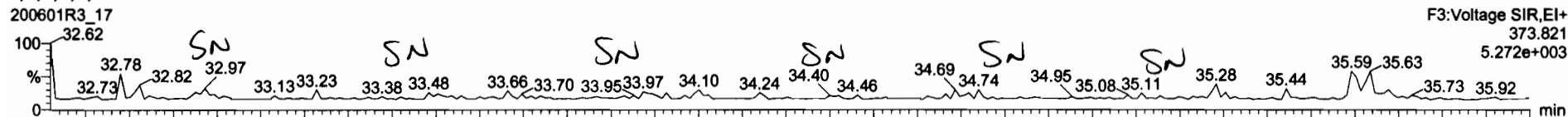


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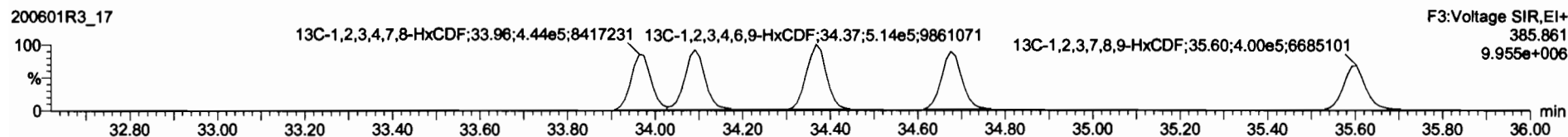
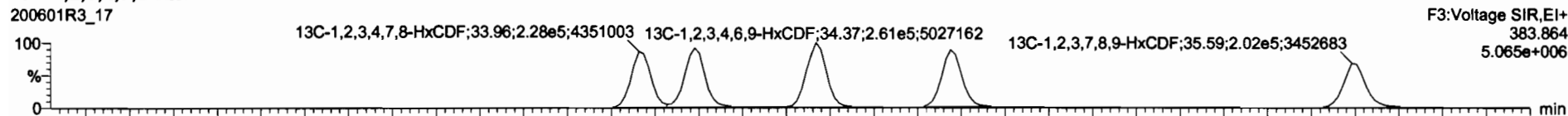
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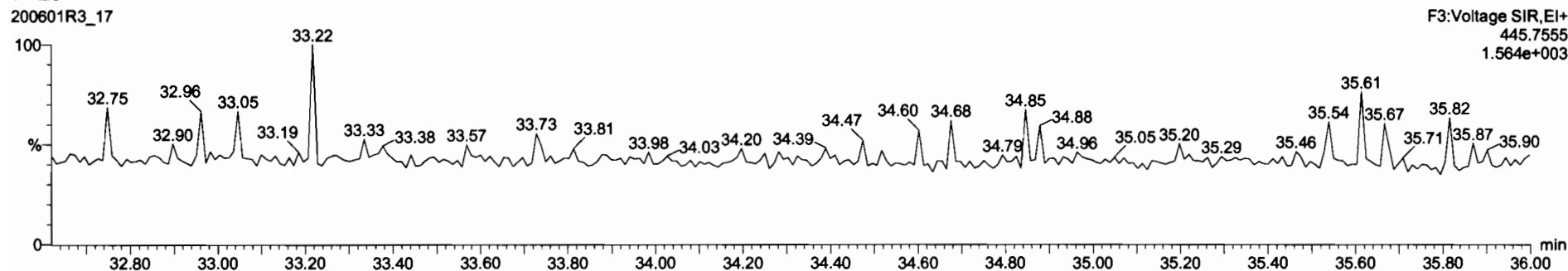
1,2,3,4,7,8-HxCDF



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



DPE3



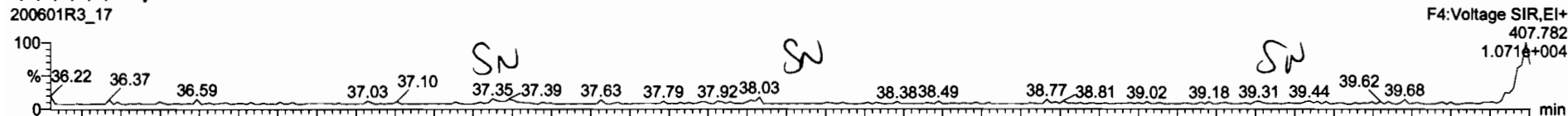
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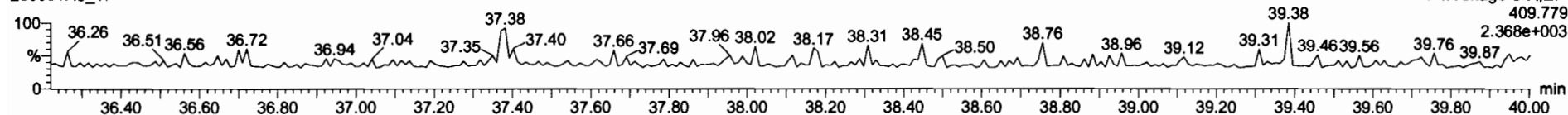
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1,2,3,4,6,7,8-HpCDF

200601R3_17

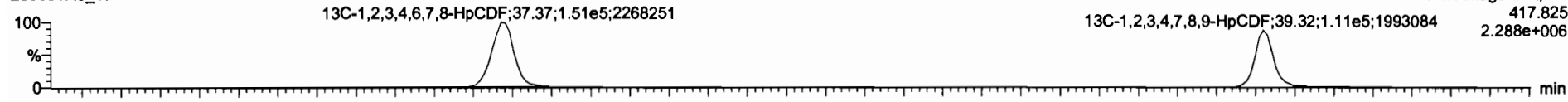


200601R3_17

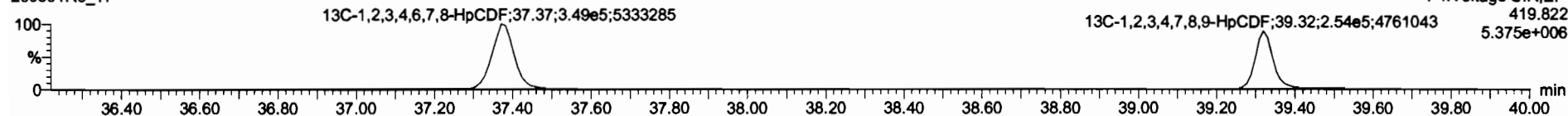


13C-1,2,3,4,6,7,8-HpCDF

200601R3_17

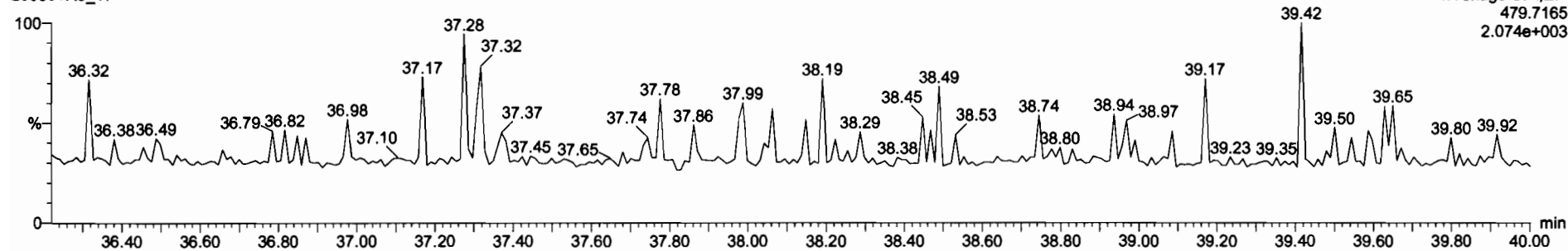


200601R3_17



DPE4

200601R3_17

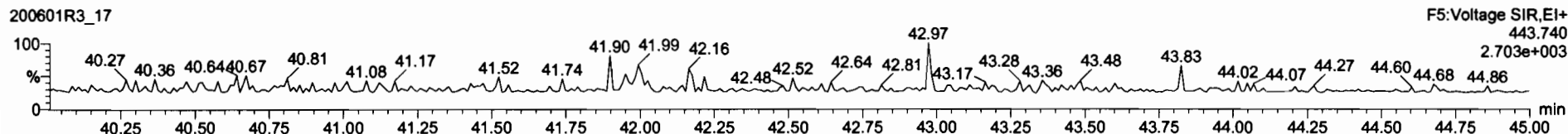
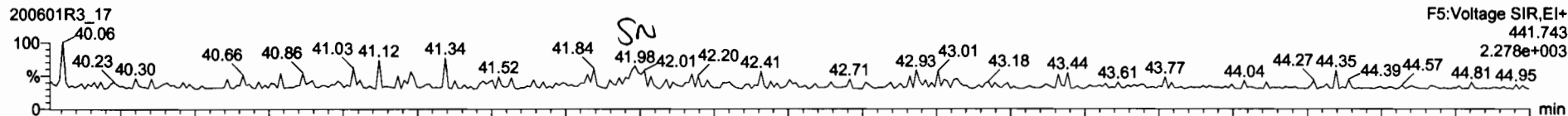


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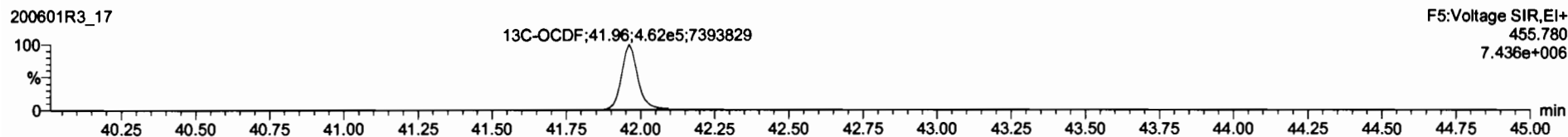
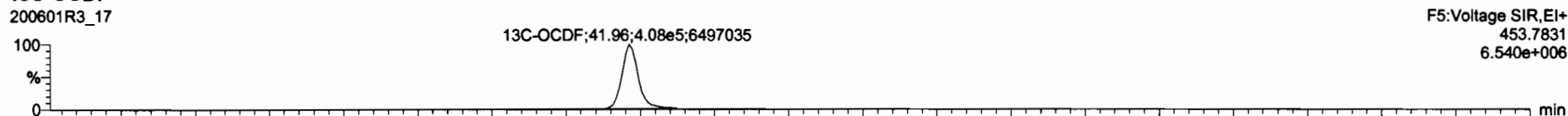
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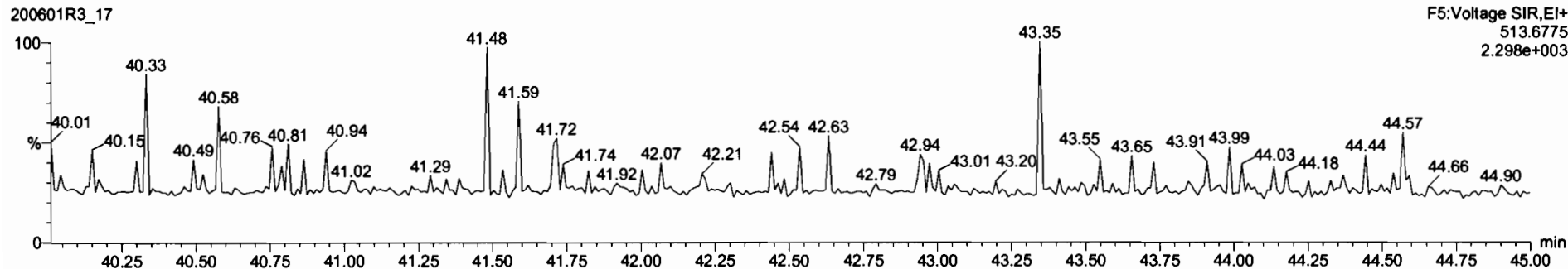
OCDF



13C-OCDF



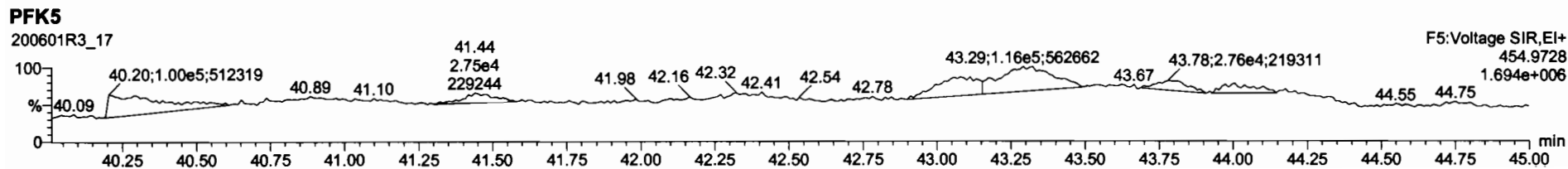
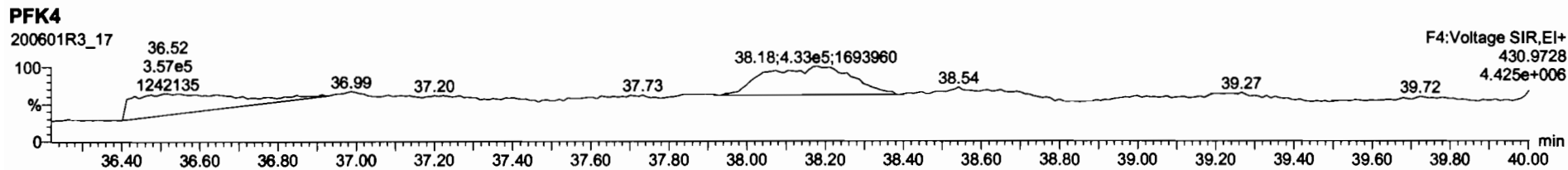
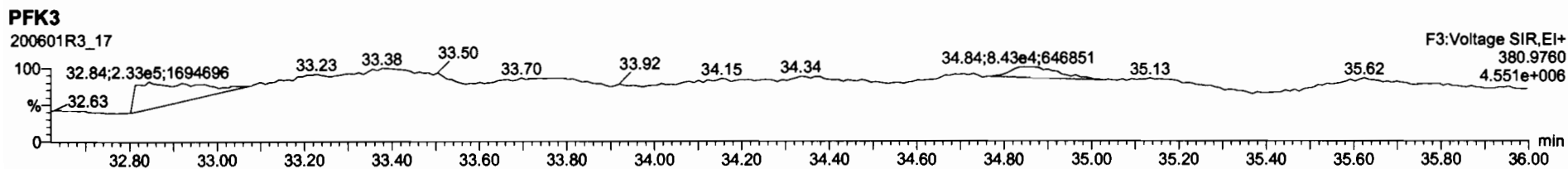
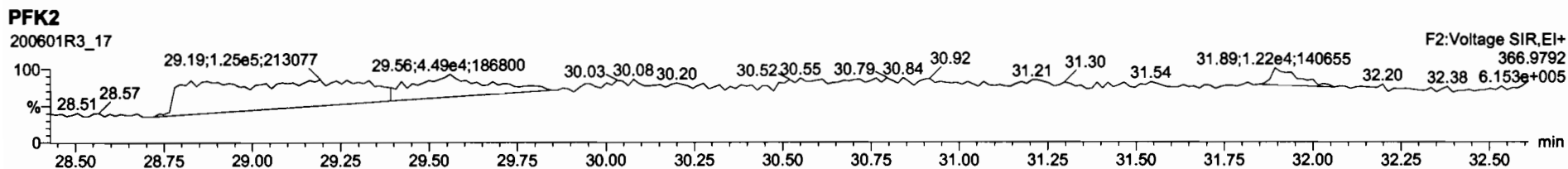
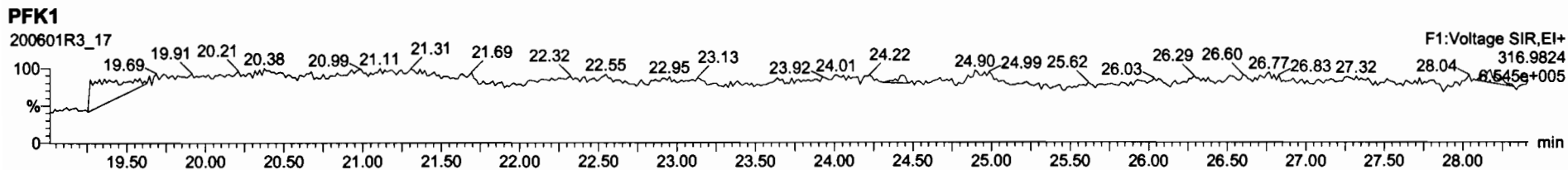
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Printed: Tuesday, June 02, 2020 07:15:48 Pacific Daylight Time

Name: 200601R3_17, Date: 02-Jun-2020, Time: 03:24:43, ID: 2000855-11 PDI-057SC-A-11-12-191023 13.63, Description: PDI-057SC-A-11-12-191023



Dataset: U:\VG12.PRO\Results\200602R1\200602R1-4.qld

Last Altered: Tuesday, June 02, 2020 1:03:33 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 1:03:48 PM Pacific Daylight Time

GPB 06/02/2020

CA 06/05/2020

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: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

Peak	RA	n/y	RRF	WYS	Prod RT	RRT							
1	2,3,7,8-TCDD		NO	0.888	10.035	26.546		1.001				0.114	
2	1,2,3,7,8-PeCDD		NO	0.908	10.035	31.488		1.001				0.227	
3	1,2,3,4,7,8-HxCDD		NO	1.03	10.035	34.846		1.000				0.163	
4	1,2,3,6,7,8-HxCDD		NO	0.892	10.035	34.932		1.000				0.169	
5	1,2,3,7,8,9-HxCDD		NO	0.887	10.035	35.231		1.000				0.185	
6	1,2,3,4,6,7,8-HpCDD	1.28e3	0.95	NO	0.864	10.035	38.757	38.76	1.000	1.000	0.65017	0.192	0.650
7	OCDD	7.33e3	0.87	NO	0.914	10.035	41.727	41.73	1.000	1.000	4.4509	0.253	4.45
8	2,3,7,8-TCDF		NO	0.751	10.035	25.641		1.001				0.141	
9	1,2,3,7,8-PeCDF		NO	0.893	10.035	30.205		1.001				0.109	
10	2,3,4,7,8-PeCDF		NO	0.935	10.035	31.192		1.001				0.0998	
11	1,2,3,4,7,8-HxCDF		NO	0.884	10.035	33.952		1.000				0.207	
12	1,2,3,6,7,8-HxCDF		NO	0.889	10.035	34.090		1.000				0.190	
13	2,3,4,6,7,8-HxCDF		NO	0.934	10.035	34.701		1.001				0.202	
14	1,2,3,7,8,9-HxCDF		NO	0.871	10.035	35.582		1.000				0.291	
15	1,2,3,4,6,7,8-HpCDF		NO	0.873	10.035	37.387		1.001				0.194	
16	1,2,3,4,7,8,9-HpCDF		NO	1.01	10.035	39.288		1.000				0.195	
17	OCDF	3.49e2	0.87	NO	0.806	10.035	41.919	41.93	1.000	1.000	0.21306	0.214	0.213
18	13C-2,3,7,8-TCDD	1.01e6	0.78	NO	1.16	10.035	26.538	26.51	1.026	1.025	175.79	88.2	0.245
19	13C-1,2,3,7,8-PeCDD	7.51e5	0.64	NO	0.849	10.035	31.729	31.47	1.227	1.217	177.85	89.2	0.303
20	13C-1,2,3,4,7,8-HxCDD	5.33e5	1.27	NO	0.779	10.035	34.841	34.84	1.014	1.014	180.09	90.4	0.459
21	13C-1,2,3,6,7,8-HxCDD	6.85e5	1.28	NO	1.02	10.035	34.955	34.93	1.017	1.017	177.33	89.0	0.351
22	13C-1,2,3,7,8,9-HxCDD	6.31e5	1.29	NO	0.903	10.035	35.226	35.22	1.025	1.025	184.01	92.3	0.396
23	13C-1,2,3,4,6,7,8-HpCDD	4.56e5	1.05	NO	0.689	10.035	38.751	38.74	1.128	1.128	173.99	87.3	0.464
24	13C-OCDD	7.18e5	0.89	NO	0.652	10.035	41.775	41.73	1.216	1.215	289.92	72.7	0.411
25	13C-2,3,7,8-TCDF	1.33e6	0.76	NO	1.06	10.035	25.578	25.61	0.989	0.991	177.88	89.3	0.288
26	13C-1,2,3,7,8-PeCDF	1.11e6	1.59	NO	0.838	10.035	30.111	30.18	1.165	1.167	188.06	94.4	0.431
27	13C-2,3,4,7,8-PeCDF	1.08e6	1.60	NO	0.817	10.035	31.065	31.16	1.202	1.205	187.03	93.8	0.442
28	13C-1,2,3,4,7,8-HxCDF	6.81e5	0.50	NO	1.01	10.035	33.972	33.95	0.989	0.988	177.84	89.2	0.629
29	13C-1,2,3,6,7,8-HxCDF	7.66e5	0.50	NO	1.17	10.035	34.096	34.08	0.992	0.992	172.67	86.6	0.543
30	13C-2,3,4,6,7,8-HxCDF	7.18e5	0.50	NO	1.02	10.035	34.670	34.67	1.009	1.009	184.95	92.8	0.620
31	13C-1,2,3,7,8,9-HxCDF	6.03e5	0.49	NO	0.860	10.035	35.570	35.58	1.035	1.036	184.53	92.6	0.738

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-4.qld

Last Altered: Tuesday, June 02, 2020 1:03:33 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 1:03:48 PM Pacific Daylight Time

Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

Peak #	Compound	RF	RA	n/y	RRF	W/vol	Prod. RT	RT	PDI RRT	Area	Height	Conc	Conc	
32	13C-1,2,3,4,6,7,8-HpCDF	4.81e5	0.43	NO	0.774	10.035	37.319	37.35	1.086	1.087	163.42	82.0	0.358	
33	13C-1,2,3,4,7,8,9-HpCDF	3.38e5	0.42	NO	0.521	10.035	39.349	39.29	1.145	1.144	170.78	85.7	0.532	
34	13C-OCDF	8.10e5	0.88	NO	0.746	10.035	41.946	41.92	1.221	1.220	286.02	71.8	0.331	
35	37Cl-2,3,7,8-TCDD	3.98e5			1.04	10.035	26.569	26.53	1.028	1.026	77.129	96.8	0.0797	
36	13C-1,2,3,4-TCDD	9.91e5	0.78	NO	1.00	10.035	25.890	25.85	1.000	1.000	199.29	100	0.284	
37	13C-1,2,3,4-TCDF	1.40e6	0.78	NO	1.00	10.035	24.360	24.18	1.000	1.000	199.29	100	0.305	
38	13C-1,2,3,4,6,9-HxCDF	7.57e5	0.51	NO	1.00	10.035	34.420	34.36	1.000	1.000	199.29	100	0.634	
39	Total Tetra-Dioxins				0.888	10.035	24.620		0.000		0.51102		0.114	0.511
40	Total Penta-Dioxins				0.908	10.035	29.960		0.000				0.0909	
41	Total Hexa-Dioxins				0.892	10.035	33.635		0.000		0.52508		0.180	0.525
42	Total Hepta-Dioxins				0.864	10.035	37.640		0.000		0.65017		0.192	1.61
43	Total Tetra-Furans				0.751	10.035	23.610		0.000		0.43631		0.141	0.436
44	1st Func. Penta-Furans				0.893	10.035	27.580		0.000				0.0601	
45	Total Penta-Furans				0.893	10.035	29.275		0.000				0.0512	
46	Total Hexa-Furans				0.934	10.035	33.555		0.000				0.144	
47	Total Hepta-Furans				0.873	10.035	37.835		0.000				0.102	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-4.qld

Last Altered: Tuesday, June 02, 2020 1:03:33 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 1:03:48 PM Pacific Daylight Time

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

Callbration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	22.52	3.398e3	4.336e3	2.347e2	3.091e2	0.76	NO	5.438e2	0.12071	0.12071	0.114
Total Tetra-Dioxins	22.95	4.453e3	3.429e3	2.803e2	3.231e2	0.87	NO	6.035e2	0.13395	0.13395	0.114
Total Tetra-Dioxins	24.36	7.585e3	9.217e3	4.756e2	6.793e2	0.70	NO	1.155e3	0.25635	0.25635	0.114

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Conc	EMPC	DL

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.33	1.604e4	1.235e4	7.785e2	6.704e2	1.16	NO	1.449e3	0.52508	0.52508	0.180

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.77	1.264e4	1.288e4	9.843e2	9.024e2	1.09	NO	0.000e0	0.00000	0.95540	0.192
1,2,3,4,6,7,8-HpCDD	38.76	8.551e3	8.967e3	6.250e2	6.590e2	0.95	NO	1.284e3	0.65017	0.65017	0.192

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Conc	EMPC	DL
Total Tetra-Furans	20.38	3.165e3	3.136e3	2.252e2	2.795e2	0.81	NO	5.047e2	0.10089	0.10089	0.141
Total Tetra-Furans	21.51	6.852e3	1.009e4	6.973e2	9.805e2	0.71	NO	1.678e3	0.33542	0.33542	0.141

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Y/N	Resp	Conc	EMPC	DL

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-4.qld

Last Altered: Tuesday, June 02, 2020 1:03:33 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 1:03:48 PM Pacific Daylight Time

Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

Penta-Furans

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

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	m1	m2	Resp	Area	EMPC
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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	m1	m2	Resp	Area	EMPC
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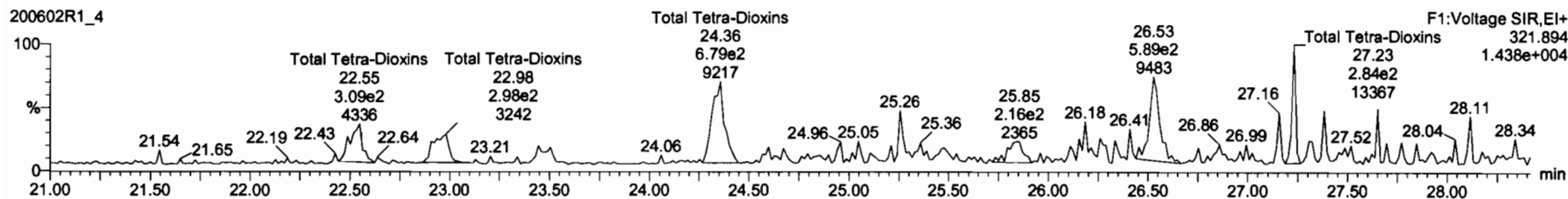
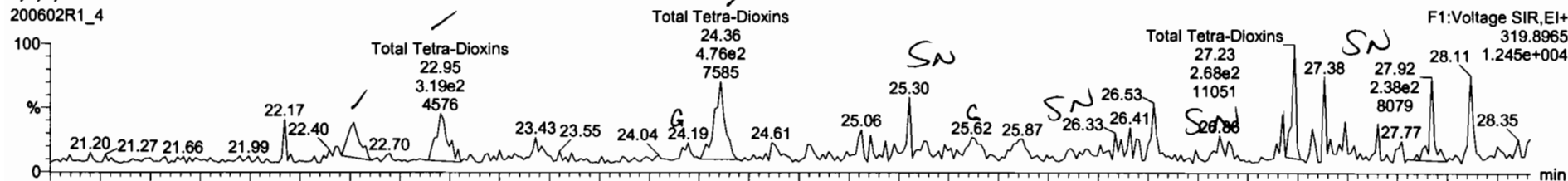
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Printed: Tuesday, June 02, 2020 11:40:27 AM Pacific Daylight Time

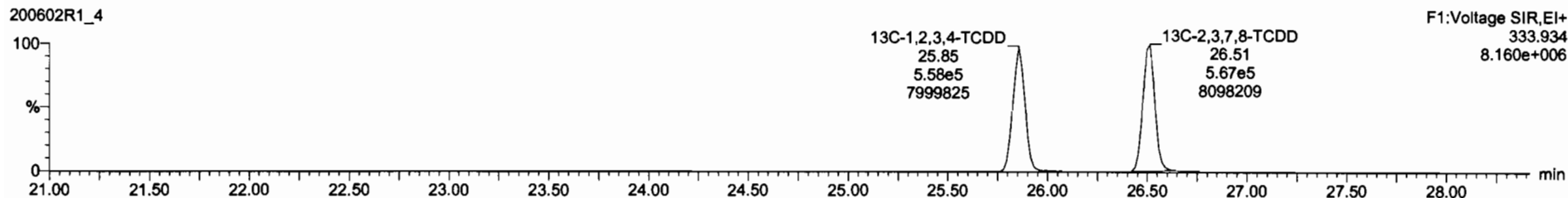
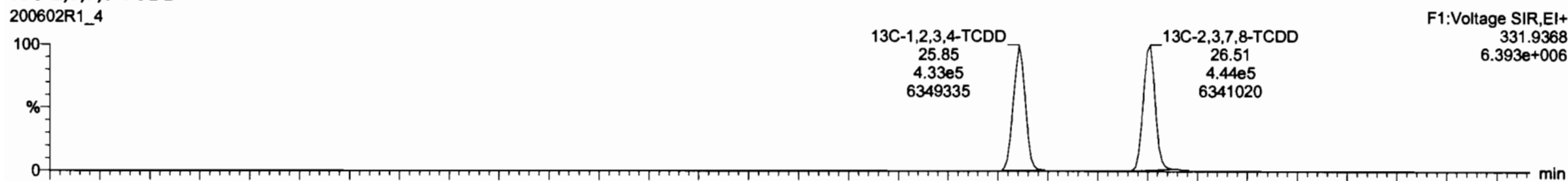
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

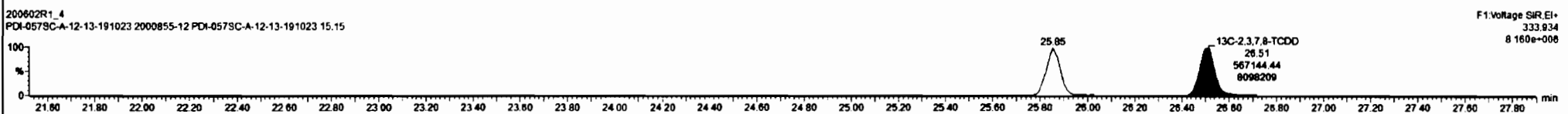
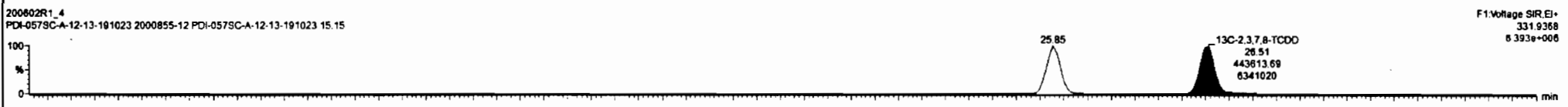
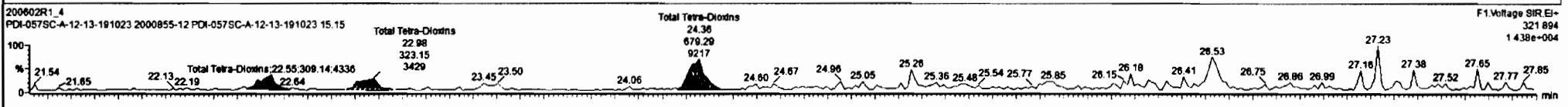
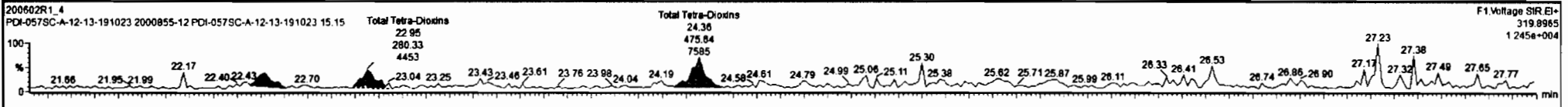
2,3,7,8-TCDD



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



13C-1,2,3,4,6,8-HxCDF	7.57e5	0.51	NO	1.0000	10.035	34.38	1.000	100	100	0.634
Total Penta-Dioxins				0.9061	10.035					0.0909
Total Hexa-Dioxins				0.8623	10.035			0.525		0.180 0.525
Total Hepta-Dioxins				0.8630	10.035			0.850		0.192 1.61
Total Tetra-Furans				0.7510	10.035			0.436		0.141 0.436
1st Fur.: Penta-Furans				0.8625	10.035					0.0601
Total Penta-Furans				0.8625	10.035					0.0512
Total Hexa-Furans				0.9341	10.035					0.144
Total Hepta-Furans				0.8734	10.035					0.102
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



Dataset: Untitled

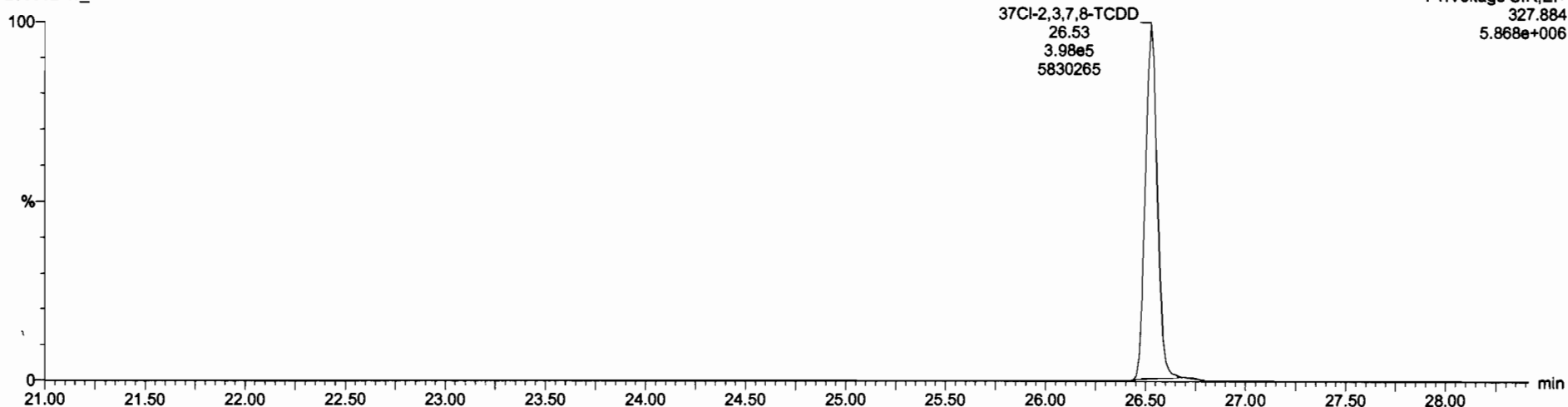
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Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

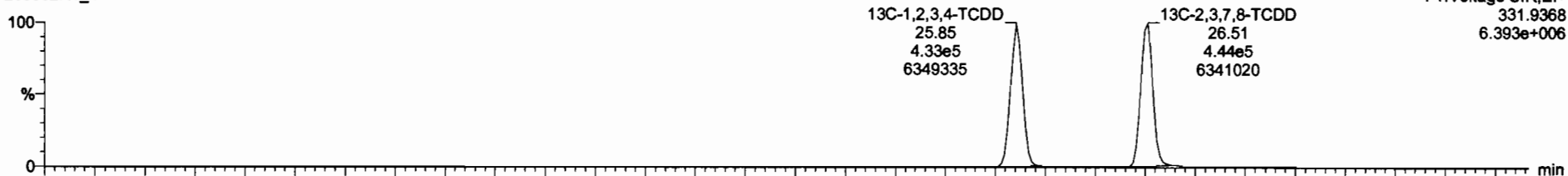
37Cl-2,3,7,8-TCDD

200602R1_4

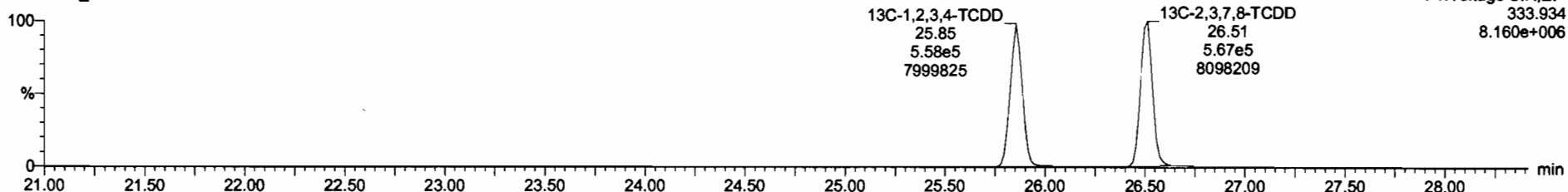


13C-1,2,3,4-TCDD

200602R1_4



200602R1_4



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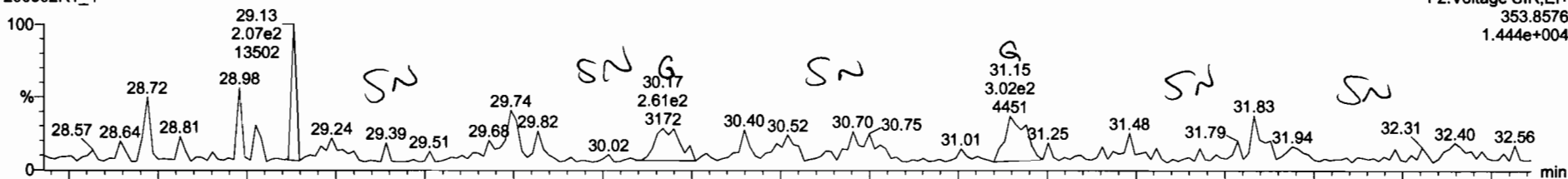
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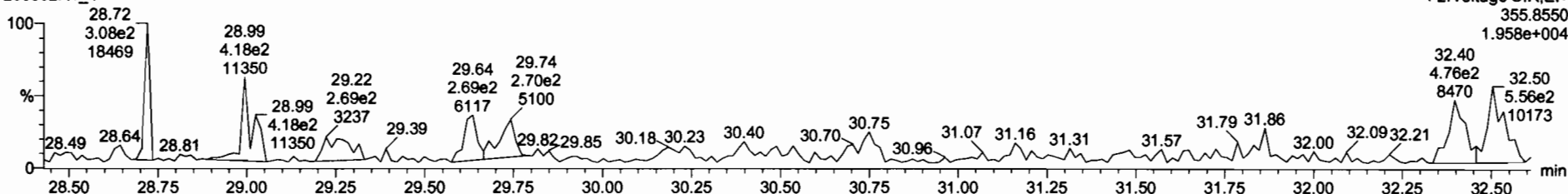
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1,2,3,7,8-PeCDD

200602R1_4

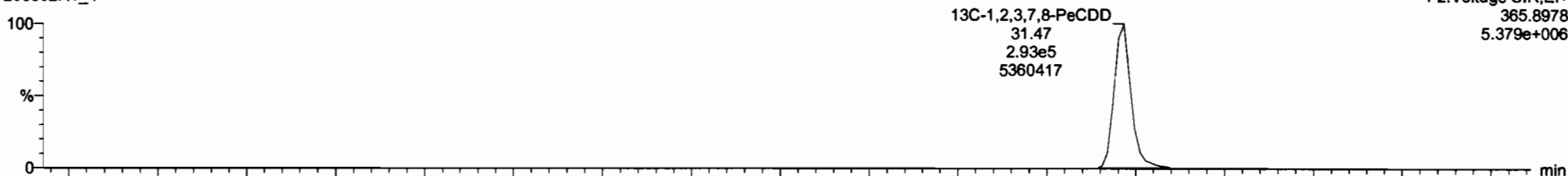


200602R1_4

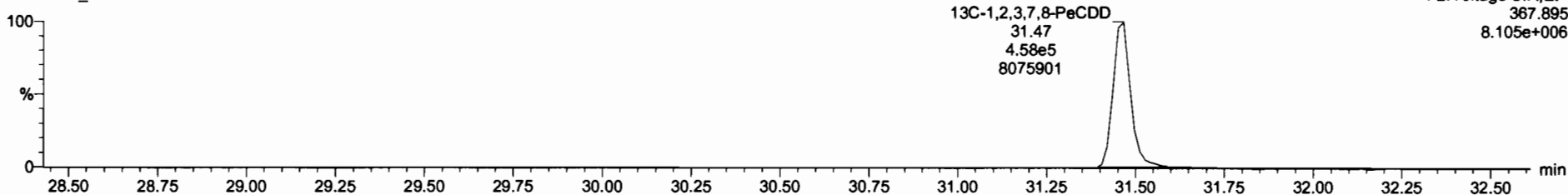


13C-1,2,3,7,8-PeCDD

200602R1_4



200602R1_4

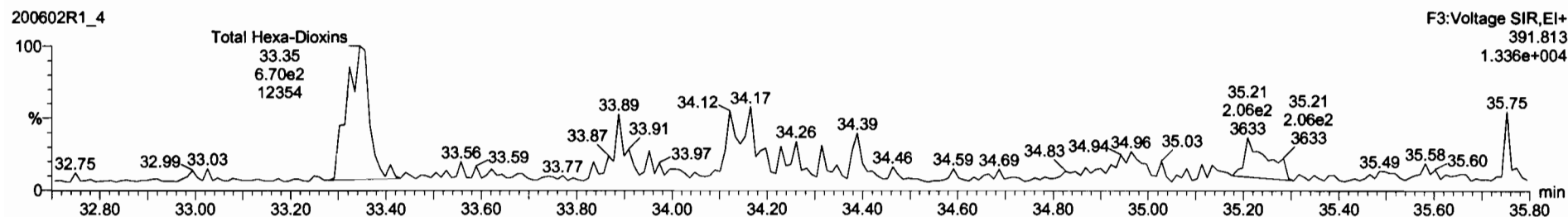
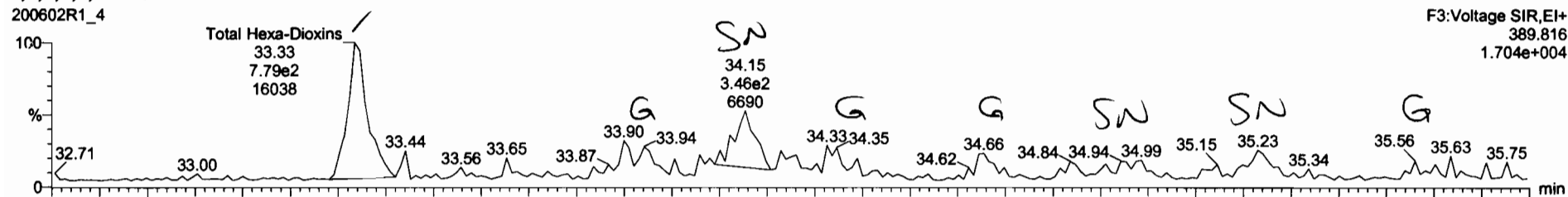


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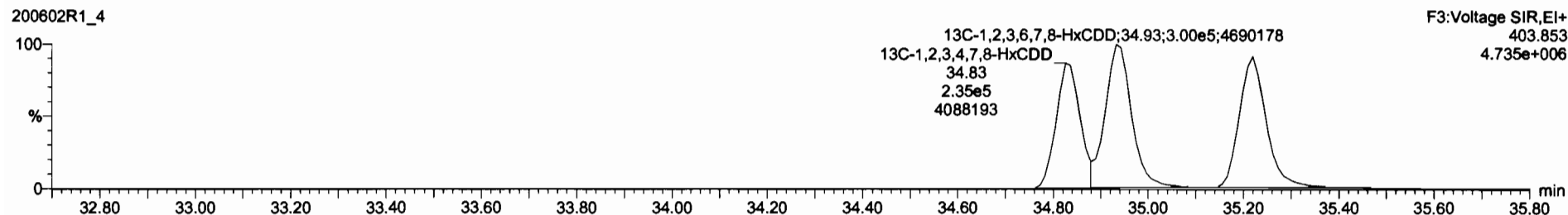
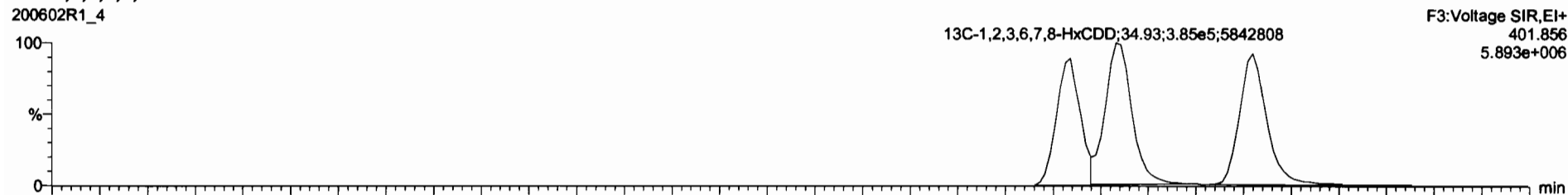
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Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

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



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



Dataset: Untitled

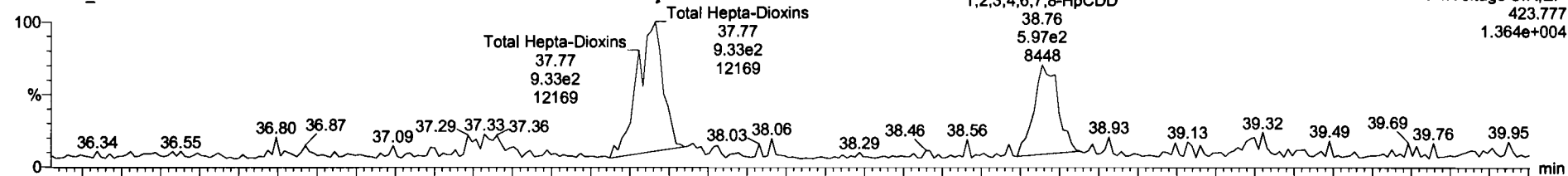
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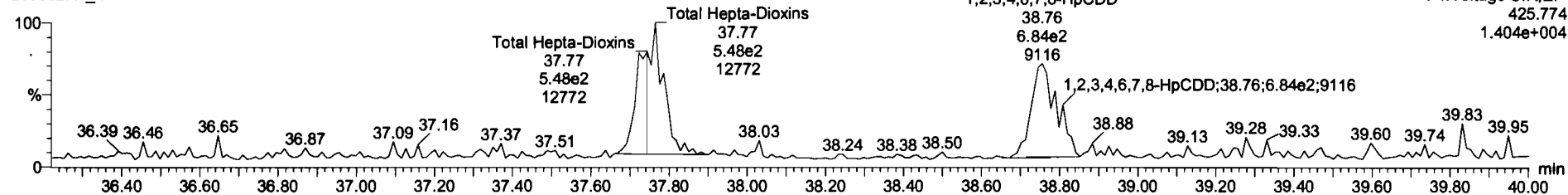
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1,2,3,4,6,7,8-HpCDD

200602R1_4

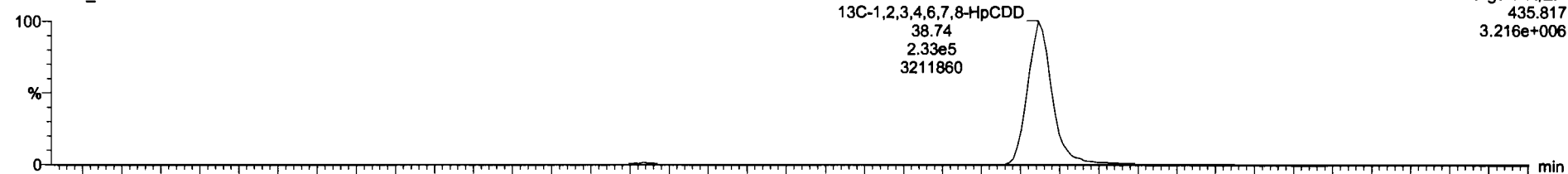


200602R1_4

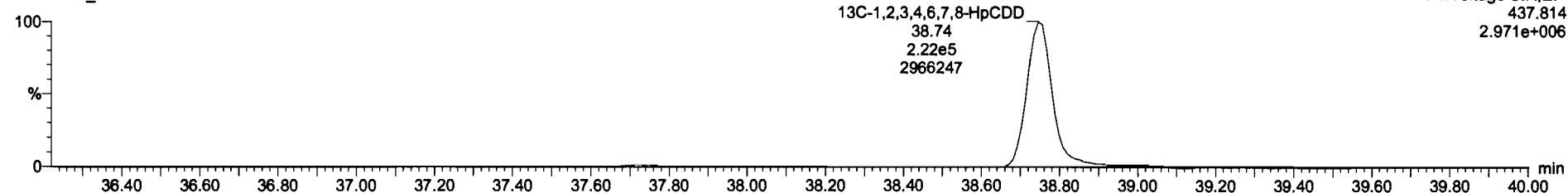


13C-1,2,3,4,6,7,8-HpCDD

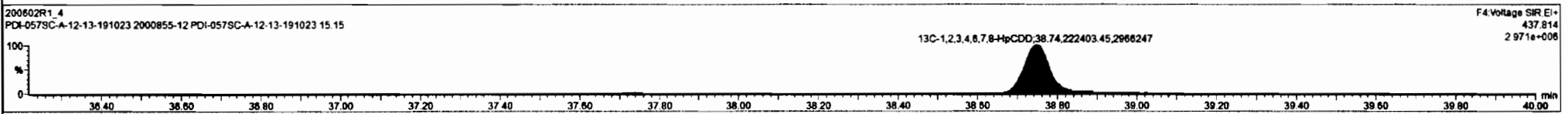
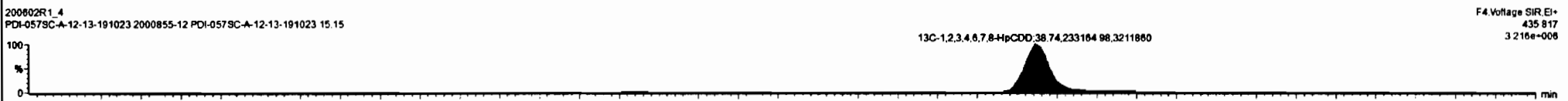
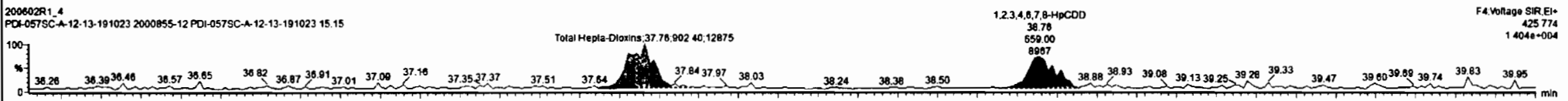
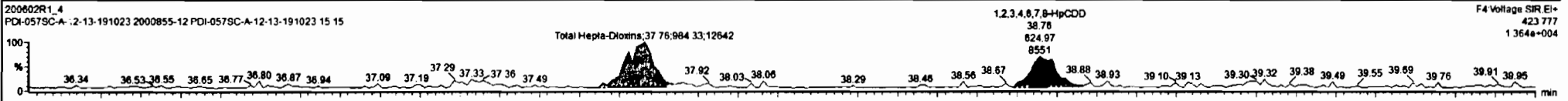
200602R1_4



200602R1_4



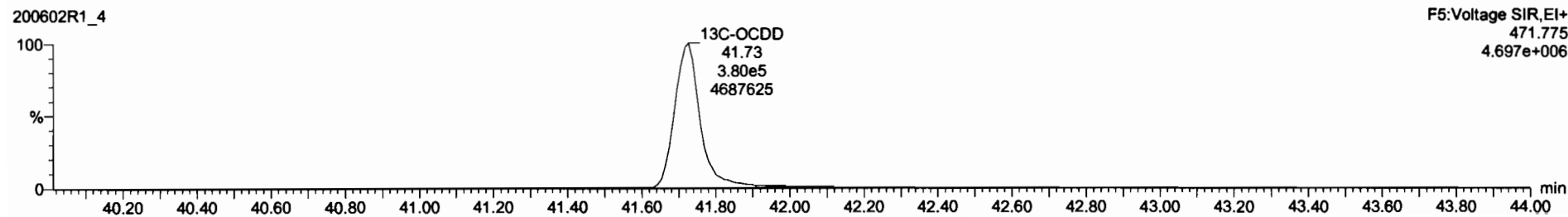
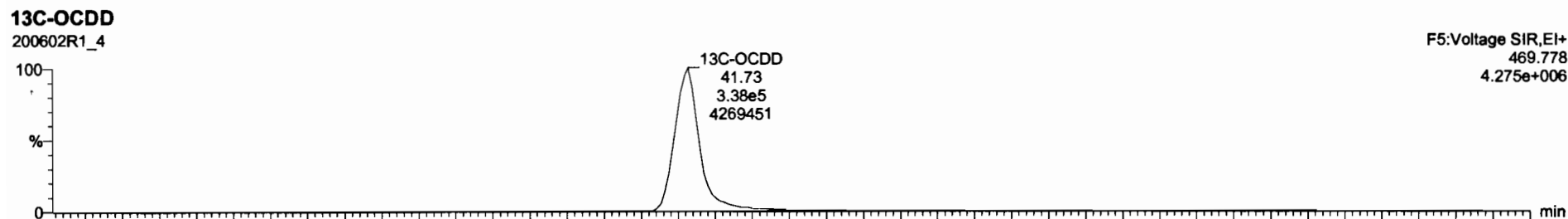
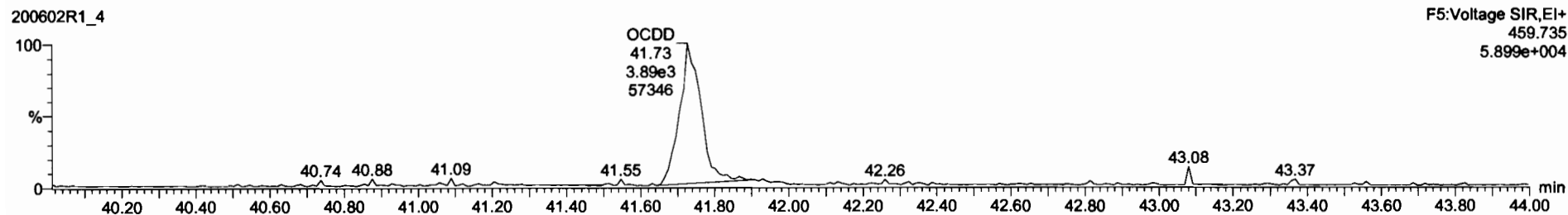
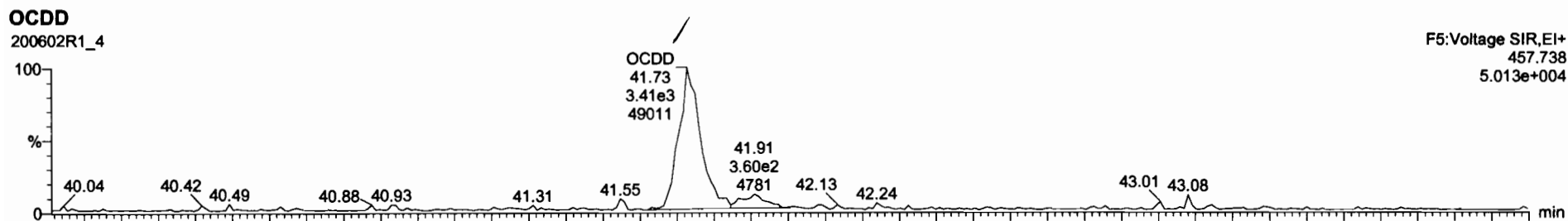
13C-1,2,3,4,6,8-HxCDF	7.57e5	0.51	NO	1.0080	10.035	34.38	1.900	199	100	0.634	
Total Tetra-Dioxins				0.8883	10.035			0.511		0.114	0.511
Total Penta-Dioxins				0.9081	10.035					0.0909	
Total Hexa-Dioxins				0.8823	10.035			0.525		0.180	0.525
Total Tetra-Furans				0.7510	10.035			0.436		0.141	0.436
1st Func. Penta-Furans				0.8625	10.035					0.0601	
Total Penta-Furans				0.8625	10.035					0.0512	
Total Hexa-Furans				0.9341	10.035					0.144	
Total Hepta-Furans				0.8734	10.035					0.102	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



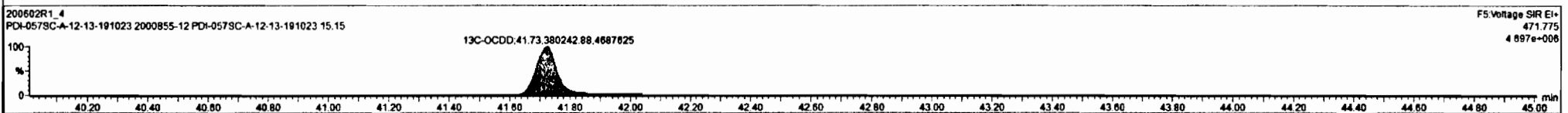
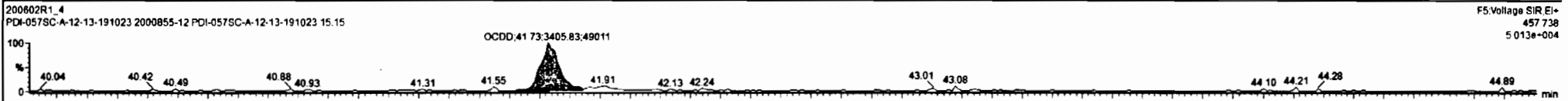
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2,3,7,8-TCDF			NO	0.7510	10.035					0.141	
1,2,3,7,8-PeCDF			NO	0.8925	10.035					0.109	
2,3,4,7,8-PeCDF			NO	0.9348	10.035					0.0996	
1,2,3,4,7,8-HxCDF			NO	0.8645	10.035					0.207	
1,2,3,6,7,8-HxCDF			NO	0.8682	10.035					0.190	
2,3,4,6,7,8-HxCDF			NO	0.9341	10.035					0.202	
1,2,3,7,8,9-HxCDF			NO	0.8797	10.035					0.291	
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.035					0.194	
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.035					0.195	
OCDF	3.49e2	0.87	NO	0.8685	10.035	41.93	1.000	0.213		0.214	0.213
13C-2,3,7,8-TCDD	1.91e6	0.78	NO	1.1583	10.035	28.51	1.028	178	88.2	0.245	
13C-1,2,3,7,8-PeCDD	7.51e5	0.84	NO	0.8490	10.035	31.47	1.217	178	89.2	0.303	
13C-1,2,3,4,7,8-HxCDD	5.33e5	1.27	NO	0.7790	10.035	34.84	1.014	180	90.4	0.459	
13C-1,2,3,6,7,8-HxCDD	6.85e6	1.28	NO	1.0167	10.035	34.93	1.017	177	89.0	0.351	
13C-1,2,3,7,8,9-HxCDD	6.31e5	1.29	NO	0.9027	10.035	35.22	1.025	164	82.3	0.390	
13C-1,2,3,4,6,7,8-HpCDD	4.56e5	1.05	NO	0.6982	10.035	38.74	1.128	174	87.3	0.464	
13C-OCDD	7.18e5	0.89	NO	0.6521	10.035	41.73	1.214	290	72.7	0.411	
13C-2,3,7,8-TCDF	1.33e6	0.78	NO	1.0590	10.035	25.61	0.991	178	89.3	0.288	
13C-1,2,3,7,8-PeCDF	1.11e6	1.59	NO	0.8380	10.035	30.18	1.167	188	94.4	0.431	
13C-2,3,4,7,8-PeCDF	1.06e6	1.60	NO	0.6196	10.035	31.16	1.205	187	93.8	0.442	

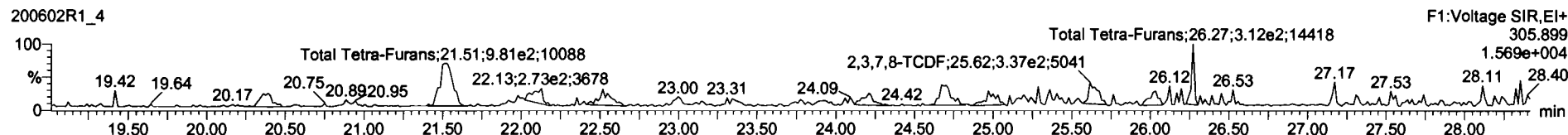
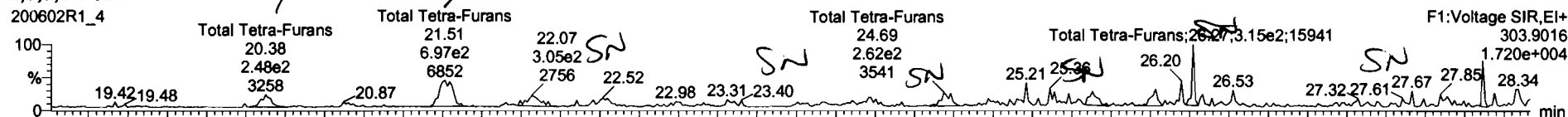


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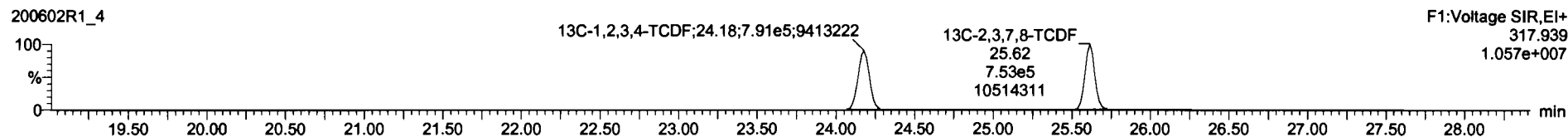
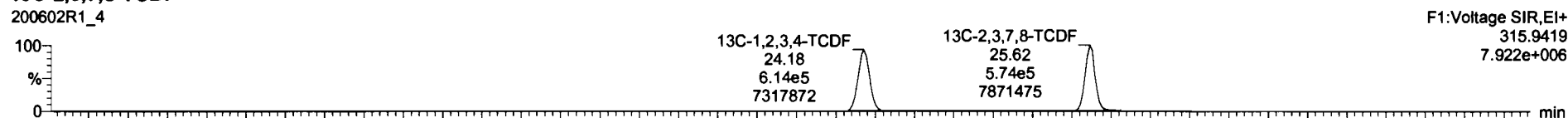
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Printed: Tuesday, June 02, 2020 11:40:27 AM Pacific Daylight Time

Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

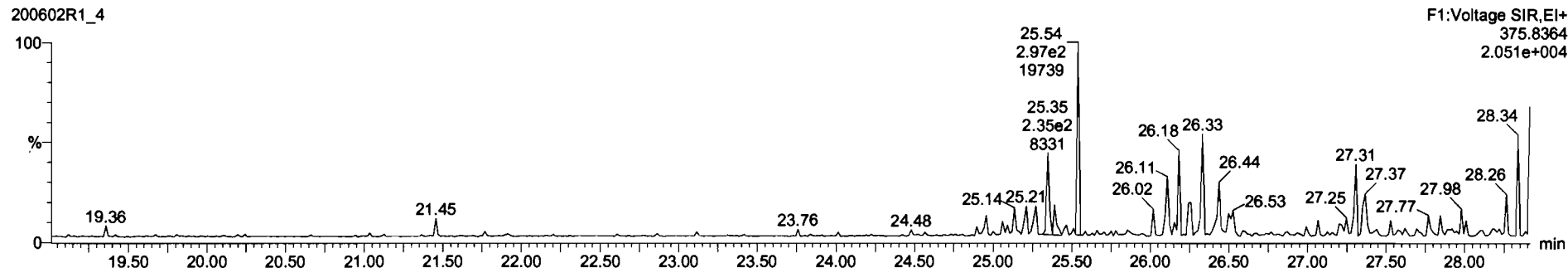
2,3,7,8-TCDF

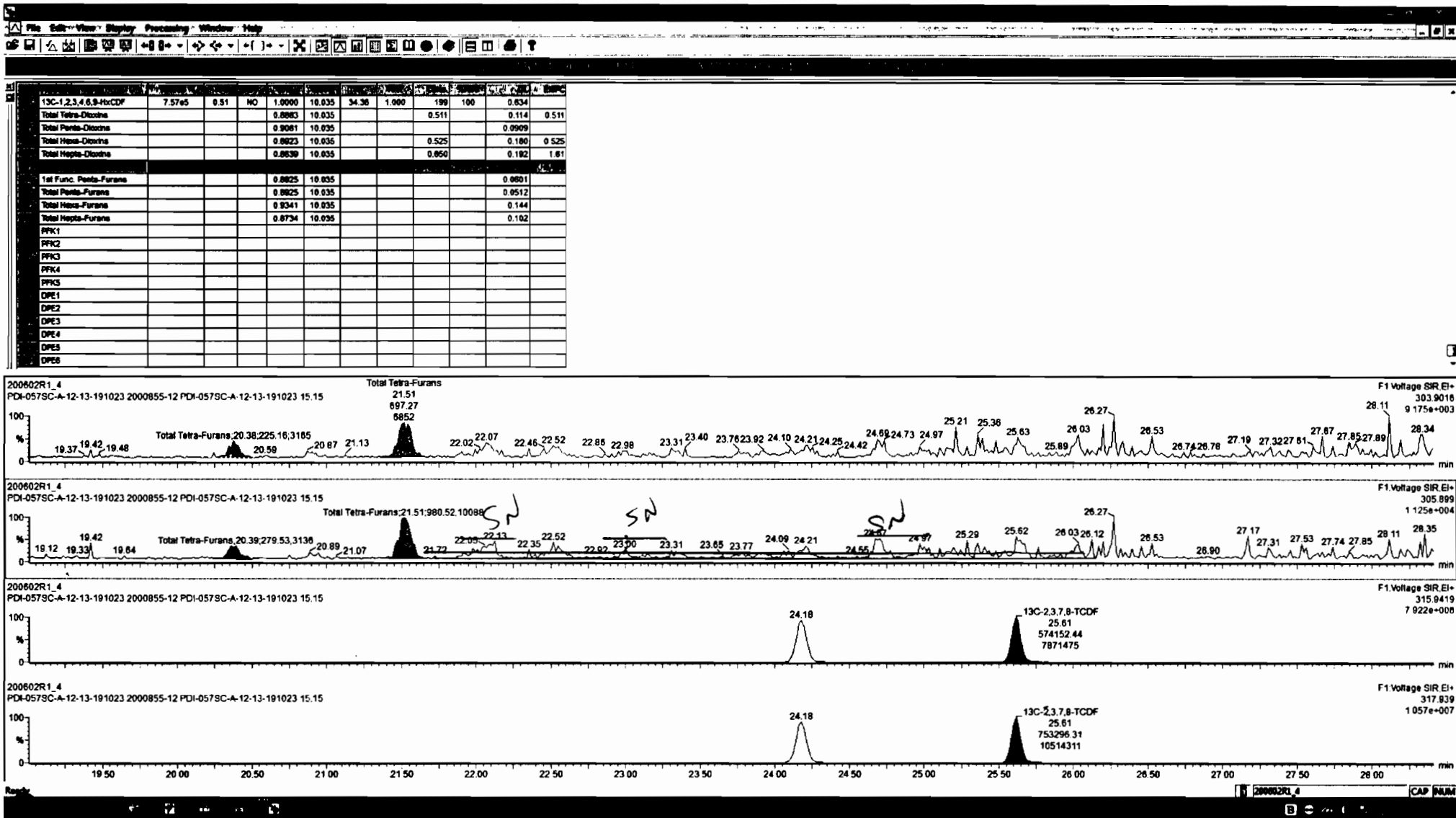


13C-2,3,7,8-TCDF



DPE1





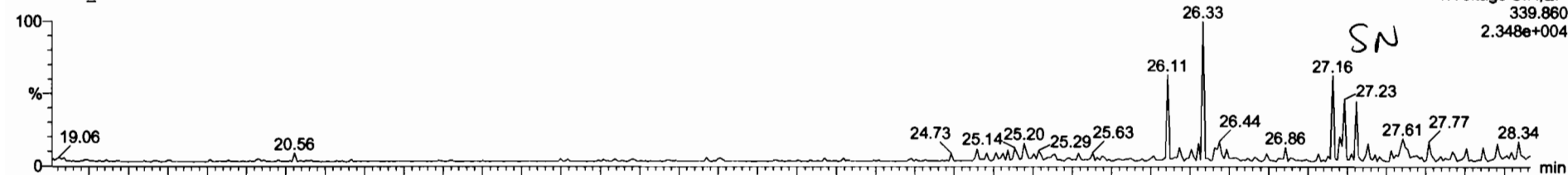
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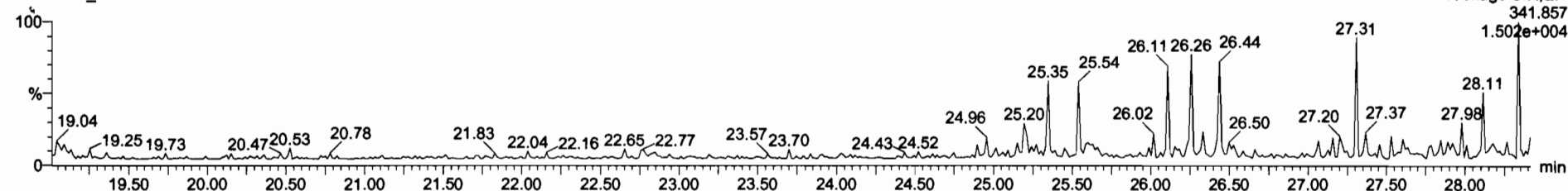
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1st Func. Penta-Furans

200602R1_4

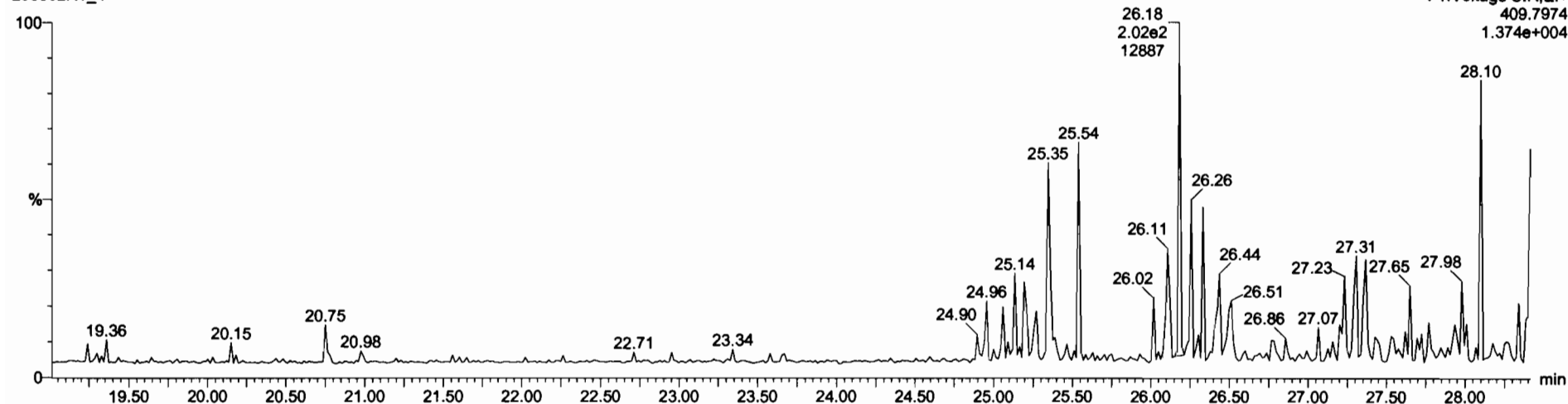


200602R1_4



DPE6

200602R1_4

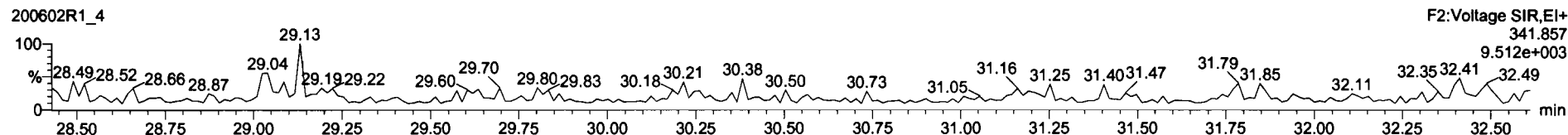
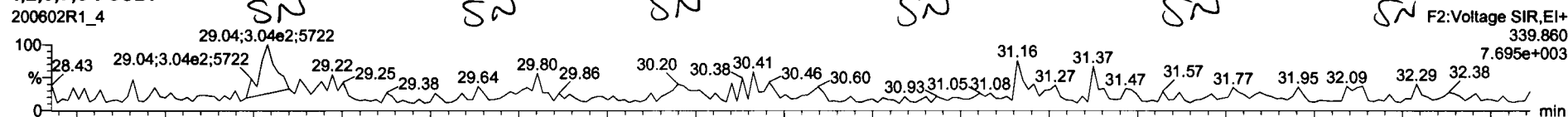


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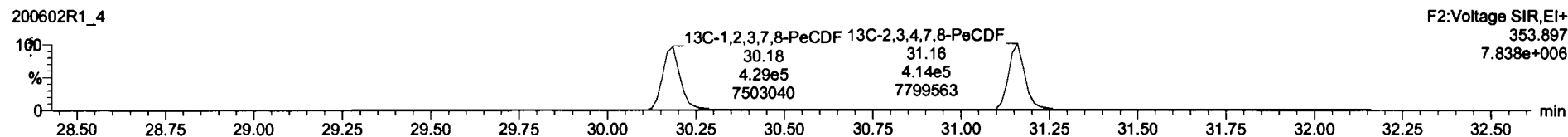
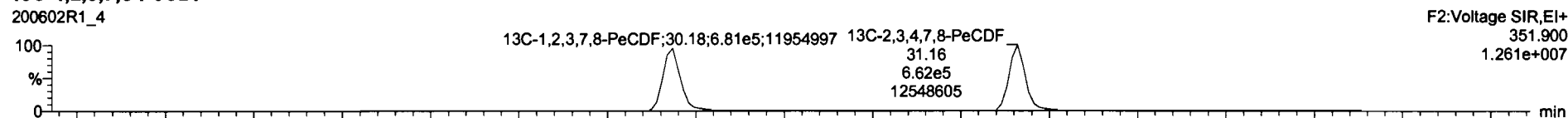
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Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

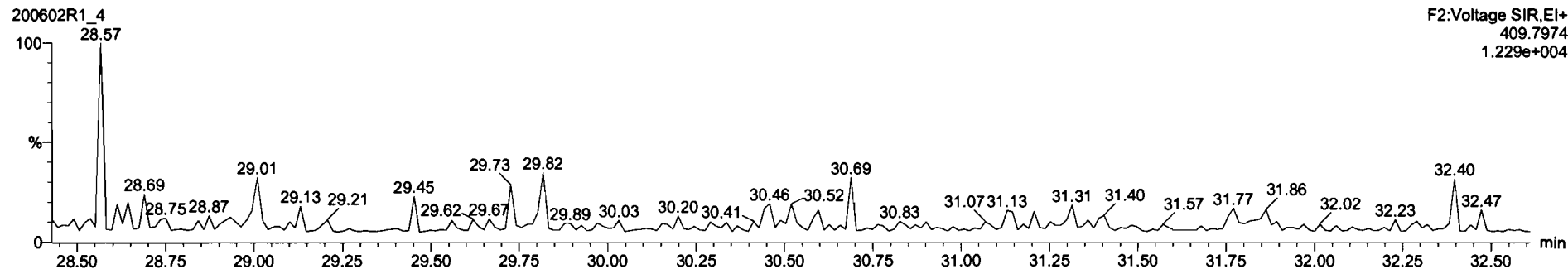
1,2,3,7,8-PeCDF



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



DPE2



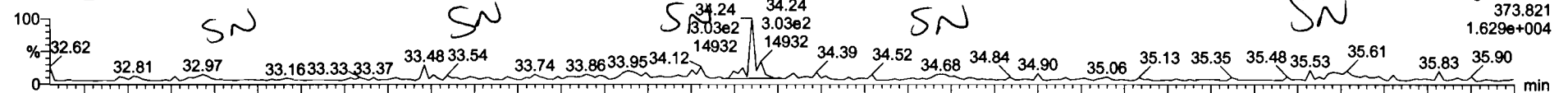
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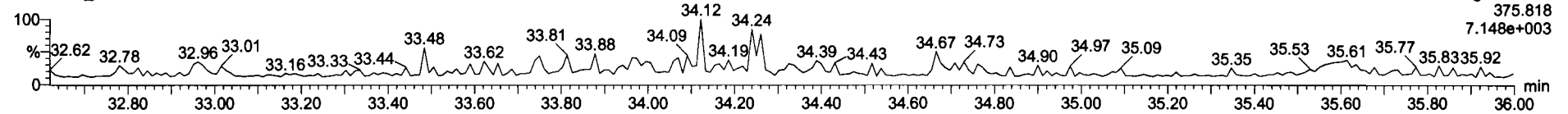
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1,2,3,4,7,8-HxCDF

200602R1_4

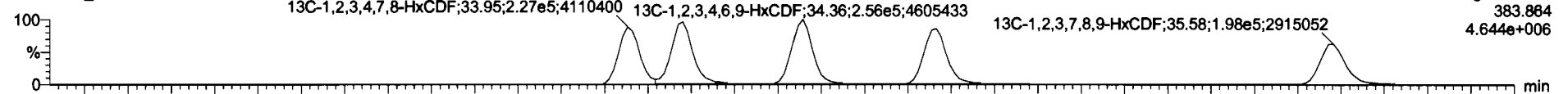


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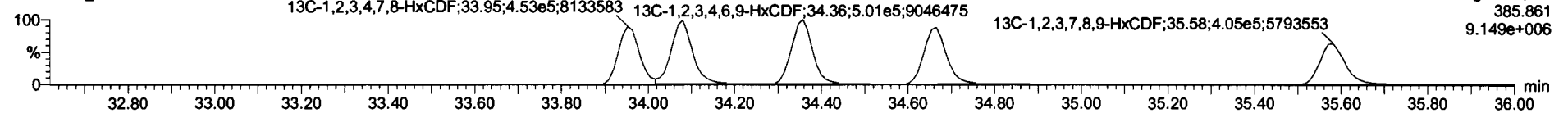


13C-1,2,3,4,7,8-HxCDF

200602R1_4

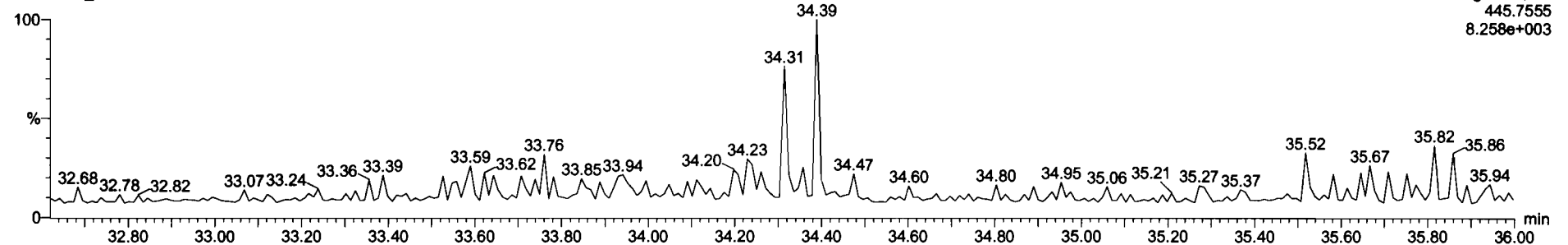


200602R1_4



DPE3

200602R1_4

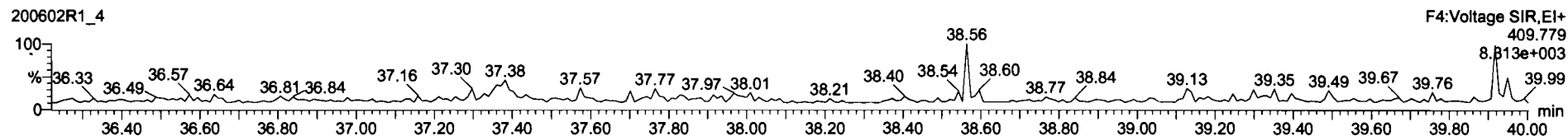
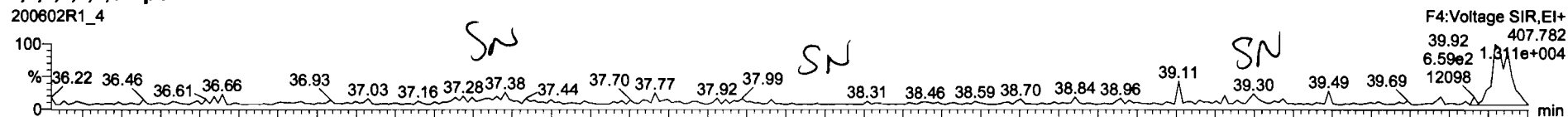


Dataset: Untitled

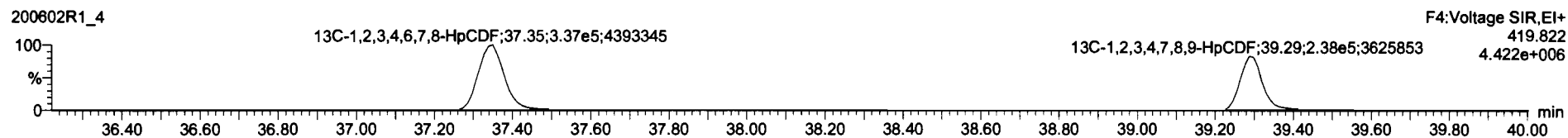
Last Altered: Tuesday, June 02, 2020 11:39:33 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 11:40:27 AM Pacific Daylight Time

Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

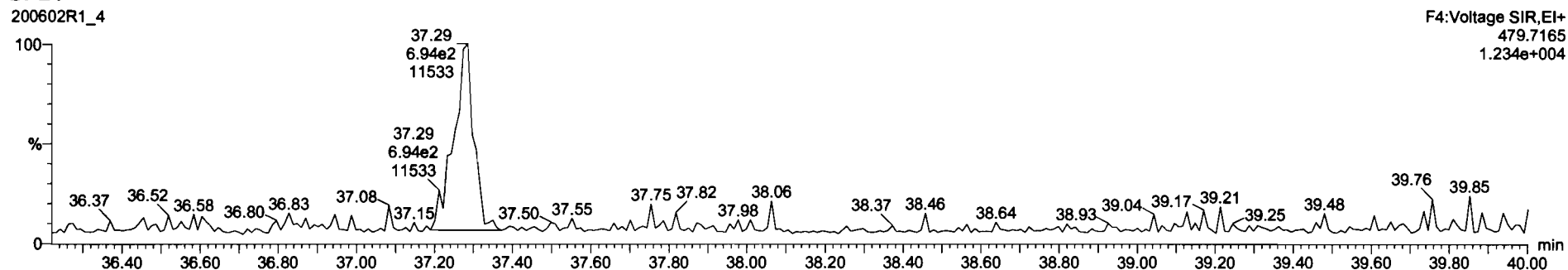
1,2,3,4,6,7,8-HpCDF



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



DPE4

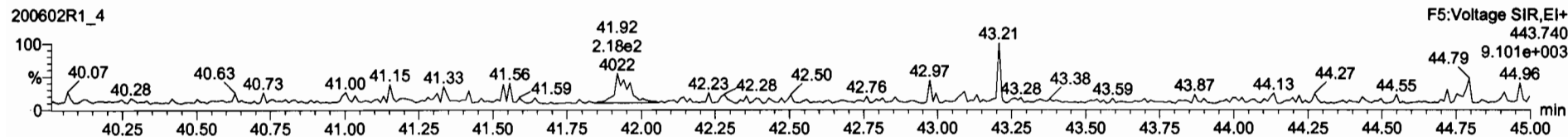
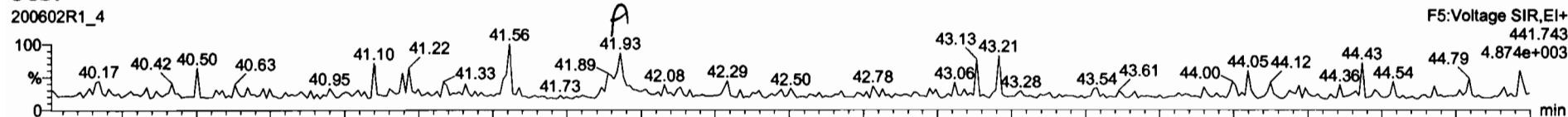


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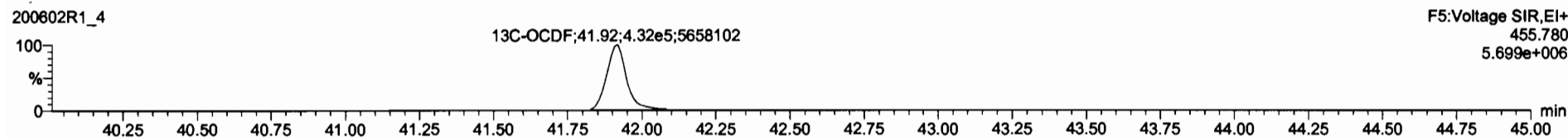
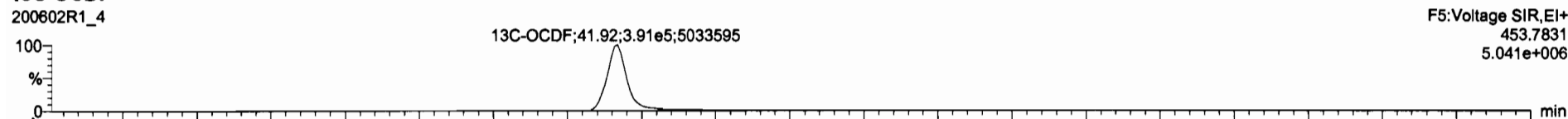
Last Altered: Tuesday, June 02, 2020 11:39:33 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 11:40:27 AM Pacific Daylight Time

Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023

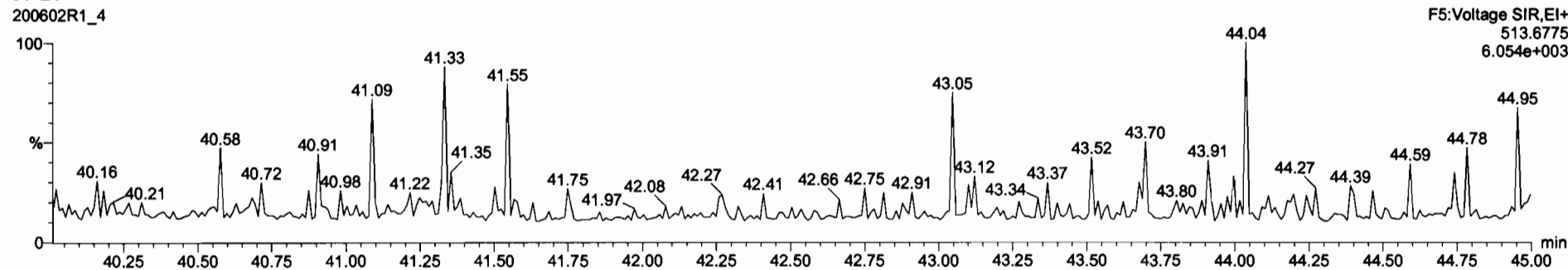
OCDF



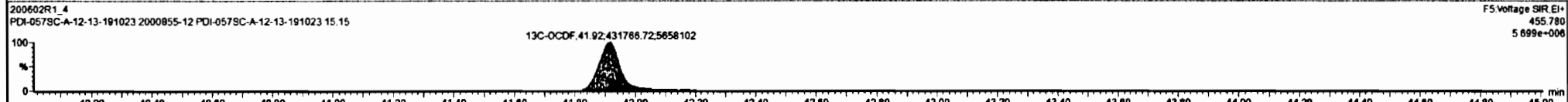
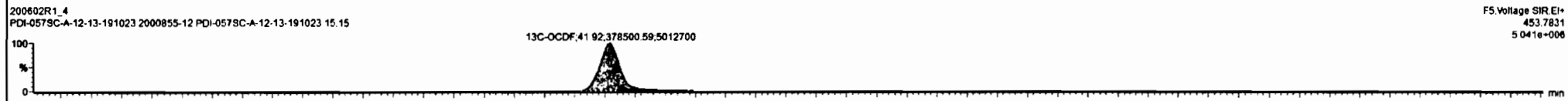
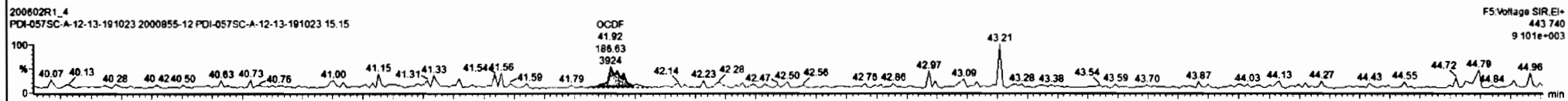
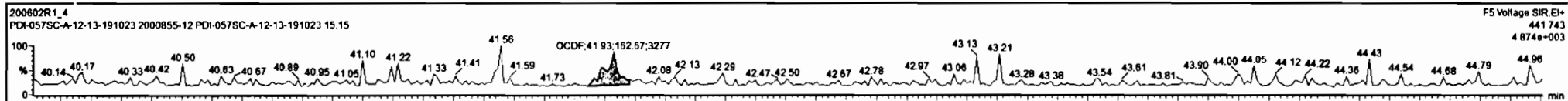
13C-OCDF



DPE5



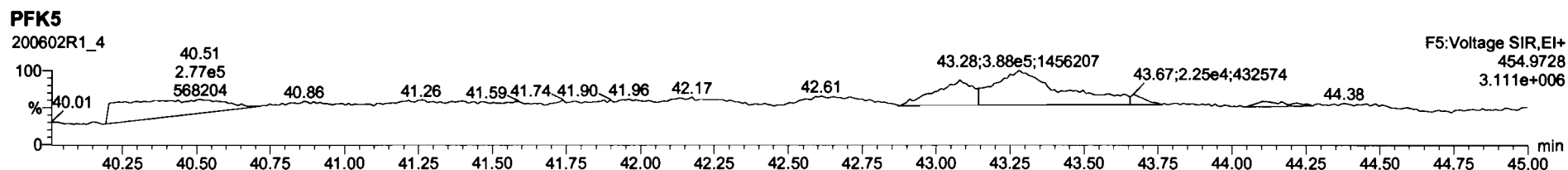
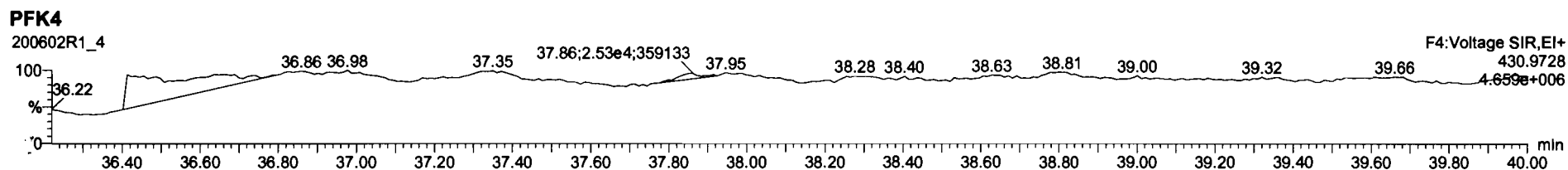
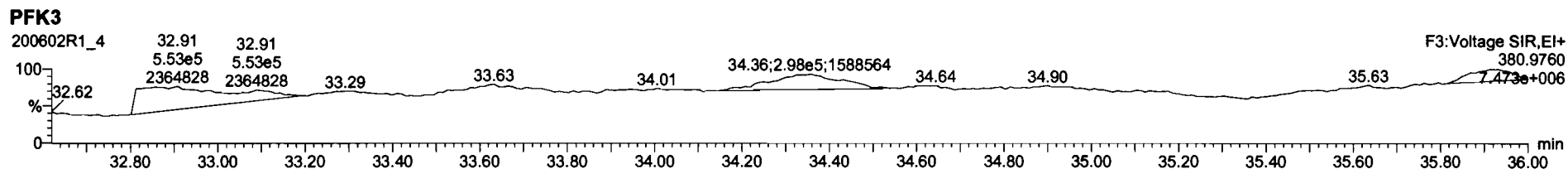
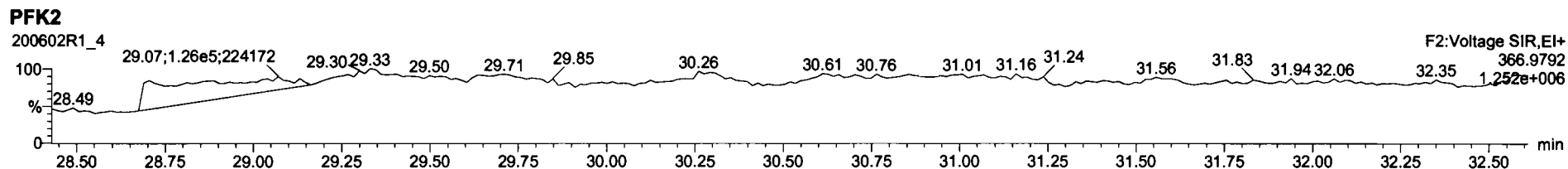
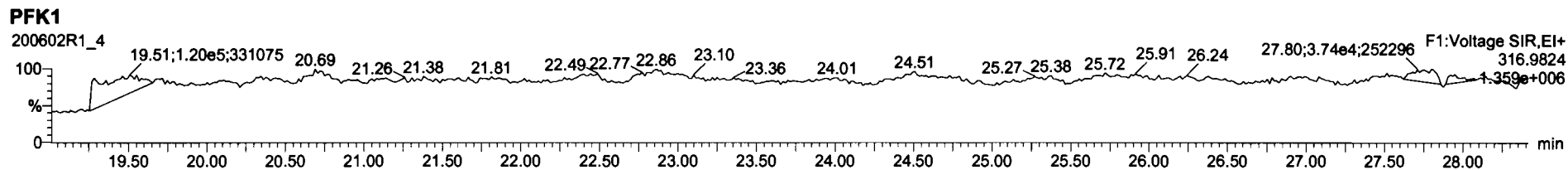
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13C-1,2,3,7,8-PeCDD	7.51e5	0.64	NO	0.8490	10.035	31.47	1.217	178	89.2	0.303
13C-1,2,3,4,7,8-HxCDD	5.33e5	1.27	NO	0.7790	10.035	34.84	1.014	180	90.4	0.459
13C-1,2,3,6,7,8-HxCDD	6.89e5	1.28	NO	1.0167	10.035	34.93	1.017	177	89.0	0.351
13C-1,2,3,7,8,9-HxCDD	6.31e5	1.29	NO	0.9027	10.035	35.22	1.025	184	92.3	0.390
13C-1,2,3,4,6,7,8-HpCDD	4.56e5	1.05	NO	0.6882	10.035	36.74	1.128	174	87.3	0.464
13C-OCDD	7.18e5	0.80	NO	0.8521	10.035	41.73	1.214	290	72.7	0.411
13C-2,3,7,8-TCDF	1.33e6	0.76	NO	1.0500	10.035	25.81	0.981	178	89.3	0.288
13C-1,2,3,7,8-PeCDF	1.11e6	1.59	NO	0.8380	10.035	30.18	1.187	188	94.4	0.431
13C-2,3,4,7,8-PeCDF	1.06e6	1.60	NO	0.8168	10.035	31.18	1.205	187	93.8	0.442
13C-1,2,3,4,7,8-HxCDF	6.81e5	0.50	NO	1.0075	10.035	33.95	0.988	178	89.2	0.629
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13C-2,3,4,6,7,8-HxCDF	7.18e5	0.50	NO	1.0219	10.035	34.67	1.008	185	82.6	0.620
13C-1,2,3,7,8,9-HxCDF	6.03e5	0.49	NO	0.8595	10.035	35.58	1.036	185	92.6	0.738
13C-1,2,3,4,6,7,8-HpCDF	4.81e5	0.43	NO	0.7745	10.035	37.35	1.087	183	82.0	0.358
13C-1,2,3,4,7,8,9-HpCDF	3.38e5	0.42	NO	0.5210	10.035	39.29	1.143	171	85.7	0.532
13C-OCDF	8.10e5	0.88	NO	0.7457	10.035	41.92	1.220	286	71.8	0.331
37Cl-2,3,7,8-TCDD	3.96e5			1.0368	10.035	26.53	1.028	77.1	96.8	0.0797
13C-1,2,3,4-TCDD	9.91e5	0.77	NO	1.0000	10.035	25.85	1.000	199	100	0.284
13C-1,2,3,4-TCDF	1.40e6	0.78	NO	1.0000	10.035	24.18	1.000	199	100	0.305



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 11:39:33 AM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 11:40:27 AM Pacific Daylight Time

Name: 200602R1_4, Date: 02-Jun-2020, Time: 10:52:59, ID: 2000855-12 PDI-057SC-A-12-13-191023 15.15, Description: PDI-057SC-A-12-13-191023



Dataset: U:\VG12.PRO\Results\200602R1\200602R1-5.qld

Last Altered: Tuesday, June 02, 2020 1:07:05 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 1:08:55 PM Pacific Daylight Time

GRB 06/02/2020

CT 06/05/2020

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

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

Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

Peak	NA	n/y	RRF	MW	Pre	RT	RRT						
1			NO	0.888	10.048	26.546	1.001					0.114	
2			NO	0.908	10.048	31.488	1.001					0.109	
3			NO	1.03	10.048	34.846	1.000					0.135	
4			NO	0.892	10.048	34.943	1.000					0.134	
5			NO	0.887	10.048	35.241	1.000					0.154	
6	9.81e2	1.11	NO	0.864	10.048	38.768	38.80	1.000	1.001	0.45208		0.133	0.452
7	7.26e3	0.91	NO	0.914	10.048	41.738	41.75	1.000	1.000	3.7679		0.186	3.77
8			NO	0.751	10.048	25.657	1.001					0.0976	
9			NO	0.893	10.048	30.205	1.001					0.0660	
10			NO	0.935	10.048	31.192	1.001					0.0627	
11			NO	0.884	10.048	33.963	1.000					0.0885	
12			NO	0.889	10.048	34.090	1.000					0.0857	
13			NO	0.934	10.048	34.701	1.001					0.0897	
14			NO	0.871	10.048	35.582	1.000					0.131	
15			NO	0.873	10.048	37.397	1.001					0.125	
16			NO	1.01	10.048	39.309	1.000					0.123	
17			NO	0.806	10.048	41.929	1.000					0.131	
18	1.05e6	0.79	NO	1.16	10.048	26.553	26.51	1.026	1.025	171.59	86.2	0.176	
19	7.87e5	0.63	NO	0.849	10.048	31.748	31.47	1.227	1.216	174.97	87.9	0.216	
20	5.90e5	1.28	NO	0.779	10.048	34.841	34.84	1.014	1.014	171.99	86.4	0.336	
21	7.44e5	1.26	NO	1.02	10.048	34.955	34.94	1.017	1.017	166.22	83.5	0.257	
22	6.93e5	1.29	NO	0.903	10.048	35.226	35.23	1.025	1.025	174.39	87.6	0.290	
23	5.00e5	1.01	NO	0.689	10.048	38.751	38.76	1.128	1.128	164.75	82.8	0.370	
24	8.40e5	0.90	NO	0.652	10.048	41.775	41.74	1.216	1.215	292.47	73.5	0.327	
25	1.31e6	0.77	NO	1.06	10.048	25.593	25.63	0.989	0.991	164.45	82.6	0.266	
26	1.16e6	1.60	NO	0.838	10.048	30.128	30.18	1.165	1.167	183.37	92.1	0.318	
27	1.11e6	1.59	NO	0.817	10.048	31.083	31.16	1.202	1.205	180.80	90.8	0.327	
28	7.42e5	0.50	NO	1.01	10.048	33.972	33.96	0.989	0.989	167.20	84.0	0.464	
29	8.20e5	0.51	NO	1.17	10.048	34.096	34.08	0.992	0.992	159.67	80.2	0.400	
30	7.71e5	0.51	NO	1.02	10.048	34.670	34.67	1.009	1.009	171.39	86.1	0.457	
31	6.28e5	0.50	NO	0.860	10.048	35.570	35.58	1.035	1.036	165.86	83.3	0.544	

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-5.qld

Last Altered: Tuesday, June 02, 2020 1:07:05 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 1:08:55 PM Pacific Daylight Time

Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

	Ret	RA	n/y	RRF	Wt	Conc	RR1	RR2	RR3	RR4	RR5	RR6	RR7	RR8	RR9	RR10
32	13C-1,2,3,4,6,7,8-HpCDF	5.32e5	0.44	NO	0.774	10.048	37.319	37.36	1.086	1.087	156.06	78.4	0.421			
33	13C-1,2,3,4,7,8,9-HpCDF	3.82e5	0.42	NO	0.521	10.048	39.349	39.31	1.145	1.144	166.43	83.6	0.625			
34	13C-OCDF	9.52e5	0.90	NO	0.746	10.048	41.946	41.93	1.221	1.220	289.85	72.8	0.254			
35	37Cl-2,3,7,8-TCDD	3.79e5			1.04	10.048	26.584	26.54	1.028	1.026	69.032	86.7	0.0567			
36	13C-1,2,3,4-TCDD	1.05e6	0.78	NO	1.00	10.048	25.890	25.87	1.000	1.000	199.05	100	0.204			
37	13C-1,2,3,4-TCDF	1.50e6	0.78	NO	1.00	10.048	24.360	24.19	1.000	1.000	199.05	100	0.282			
38	13C-1,2,3,4,6,9-HxCDF	8.76e5	0.50	NO	1.00	10.048	34.420	34.36	1.000	1.000	199.05	100	0.467			
39	Total Tetra-Dioxins				0.888	10.048	24.620		0.000				0.0599			
40	Total Penta-Dioxins				0.908	10.048	29.960		0.000				0.0408			
41	Total Hexa-Dioxins				0.892	10.048	33.635		0.000		0.29079		0.147		0.291	
42	Total Hepta-Dioxins				0.864	10.048	37.640		0.000		1.1740		0.133		1.17	
43	Total Tetra-Furans				0.751	10.048	23.610		0.000				0.0577			
44	1st Func. Penta-Furans				0.893	10.048	27.580		0.000				0.0234			
45	Total Penta-Furans				0.893	10.048	29.275		0.000				0.0381			
46	Total Hexa-Furans				0.934	10.048	33.555		0.000				0.0536			
47	Total Hepta-Furans				0.873	10.048	37.835		0.000				0.0706			

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-5.qld

Last Altered: Tuesday, June 02, 2020 1:07:05 PM Pacific Daylight Time
 Printed: Tuesday, June 02, 2020 1:08:55 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: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Ratio	Conc	EMPA	DL
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Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Ratio	Conc	EMPA	DL
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Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Ratio	Conc	EMPA	DL
Total Hexa-Dioxins	33.36	1.222e4	6.830e3	5.072e2	3.736e2	1.36	NO	8.808e2	0.29079	0.29079	0.147

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Ratio	Conc	EMPA	DL
Total Hepta-Dioxins	37.78	1.053e4	8.152e3	8.087e2	7.575e2	1.07	NO	1.566e3	0.72190	0.72190	0.133
1,2,3,4,6,7,8-HpCDD	38.80	6.731e3	5.785e3	5.159e2	4.650e2	1.11	NO	9.809e2	0.45208	0.45208	0.133

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Ratio	Conc	EMPA	DL
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Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	Wt	Ratio	Conc	EMPA	DL
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Dataset: U:\VG12.PRO\Results\200602R1\200602R1-5.qld

Last Altered: Tuesday, June 02, 2020 1:07:05 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 1:08:55 PM Pacific Daylight Time

Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	RI	Resp	Conc	EMPG	DI
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Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	RI	Resp	Conc	EMPG	DI
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Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	RI	Resp	Conc	EMPG	DI
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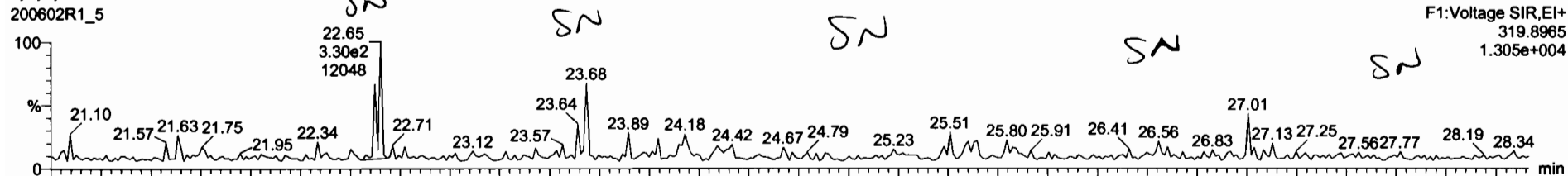
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Printed: Tuesday, June 02, 2020 12:27:16 PM Pacific Daylight Time

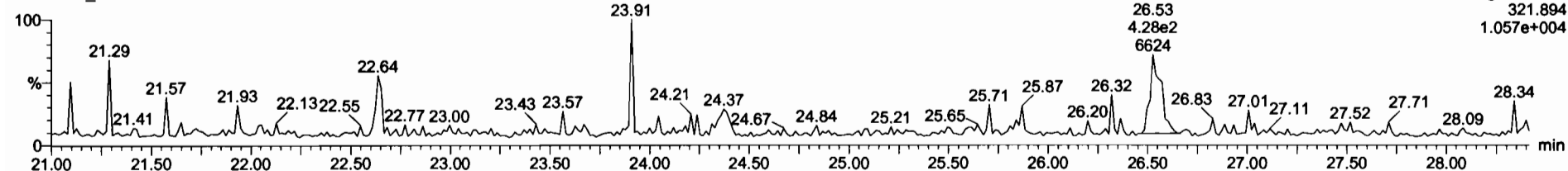
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Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

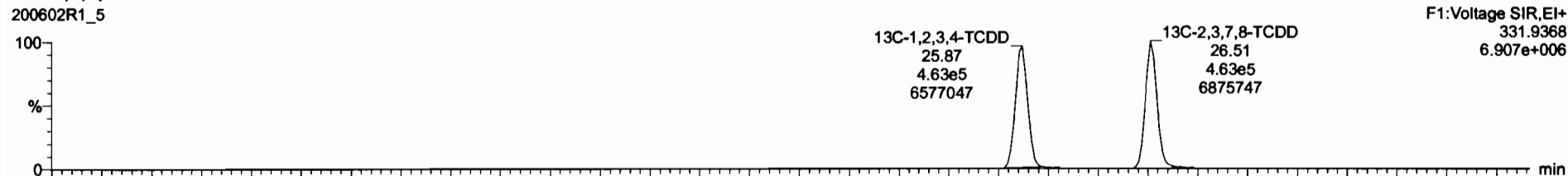
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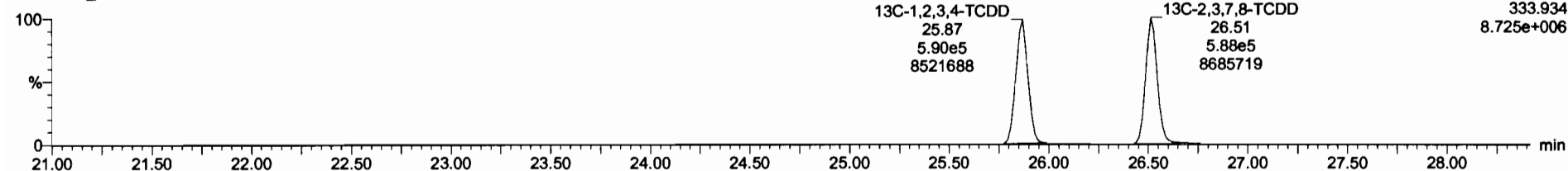
200602R1_5



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



200602R1_5



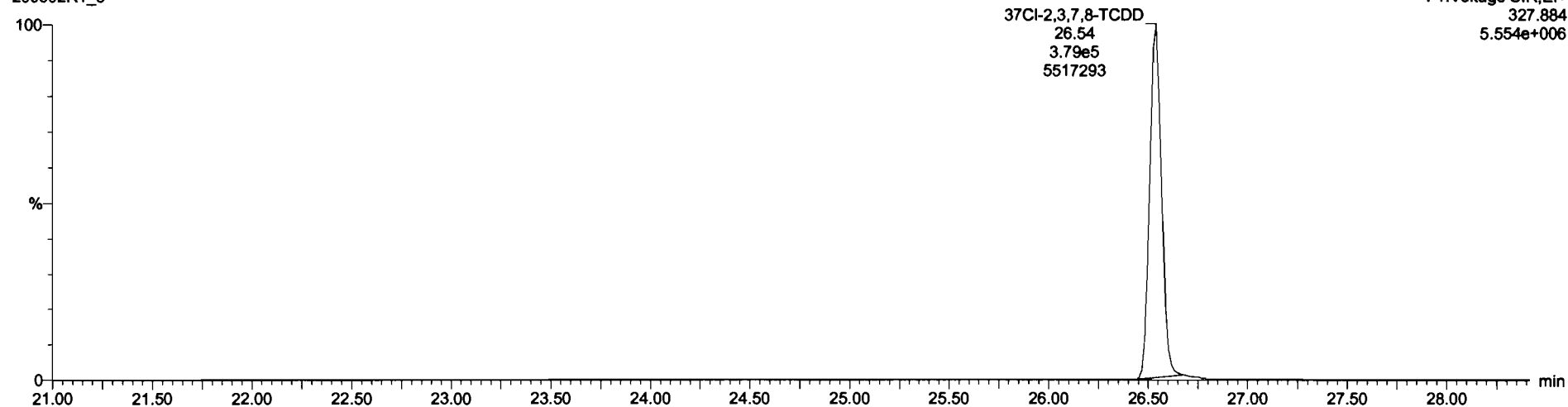
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Last Altered: Tuesday, June 02, 2020 12:26:42 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 12:27:16 PM Pacific Daylight Time

Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

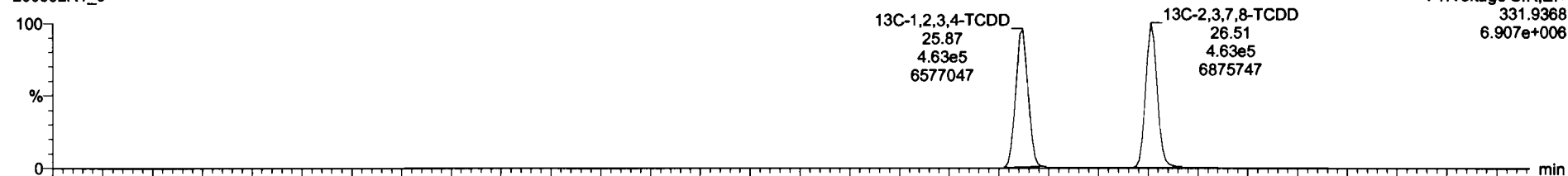
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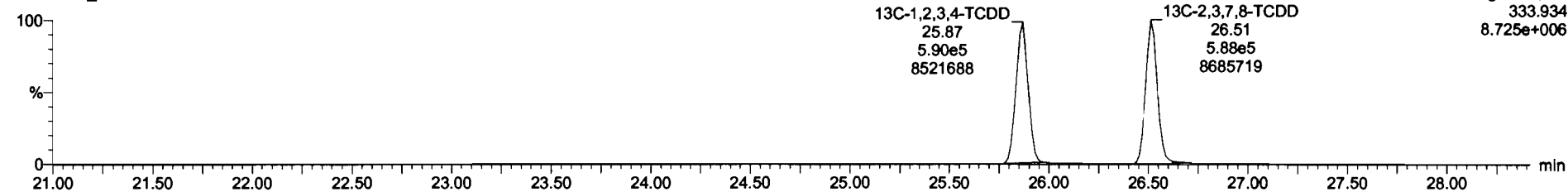


13C-1,2,3,4-TCDD

200602R1_5



200602R1_5



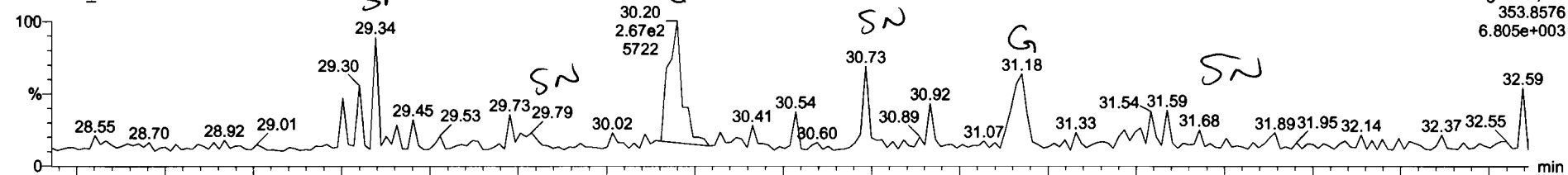
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Last Altered: Tuesday, June 02, 2020 12:26:42 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 12:27:16 PM Pacific Daylight Time

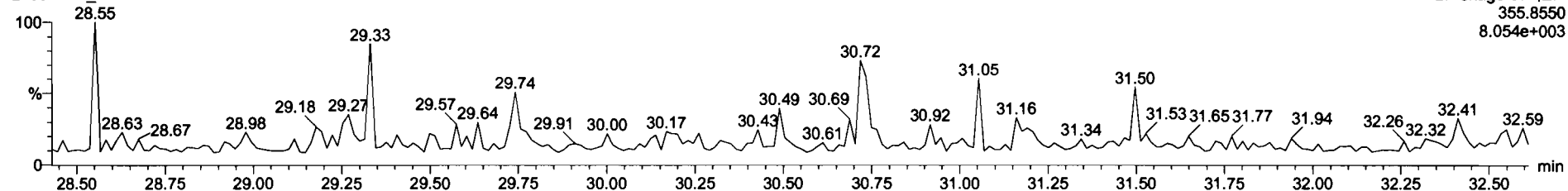
Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

1,2,3,7,8-PeCDD

200602R1_5

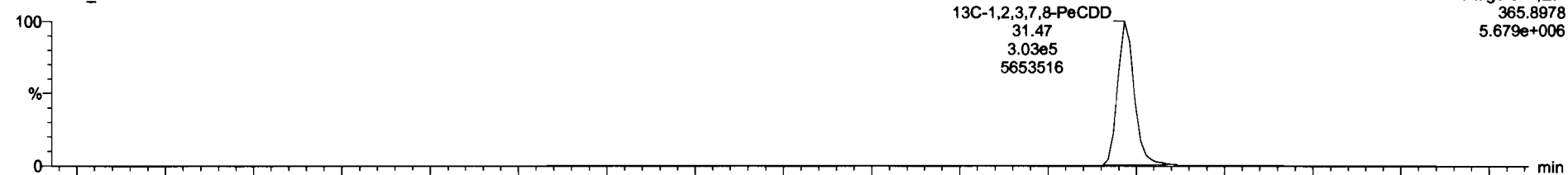


200602R1_5

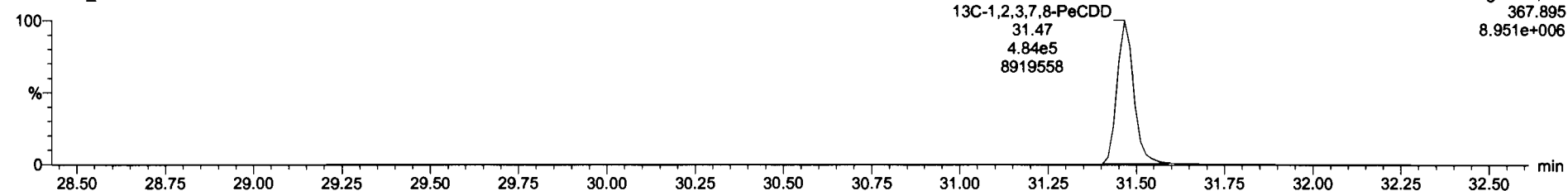


13C-1,2,3,7,8-PeCDD

200602R1_5



200602R1_5



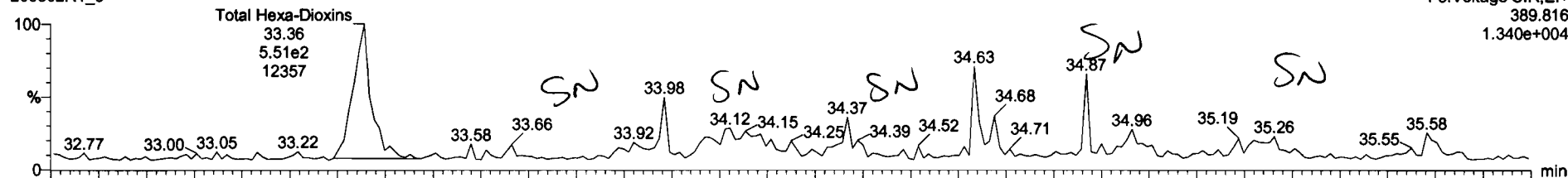
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Last Altered: Tuesday, June 02, 2020 12:26:42 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 12:27:16 PM Pacific Daylight Time

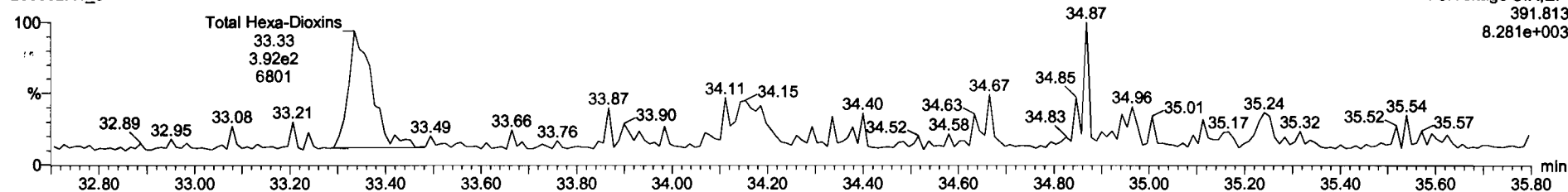
Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

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

200602R1_5

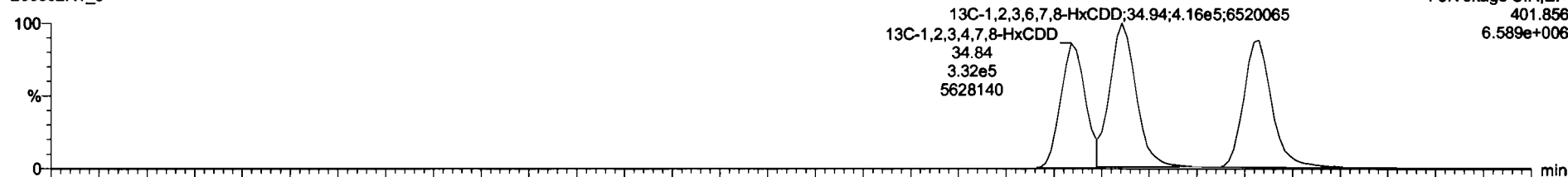


200602R1_5

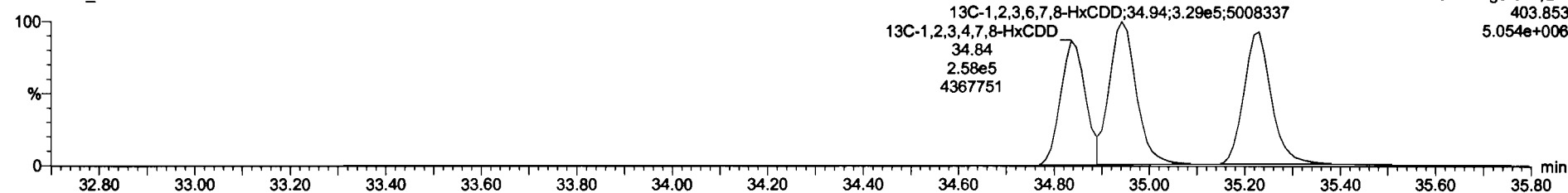


13C-1,2,3,4,7,8-HxCDD

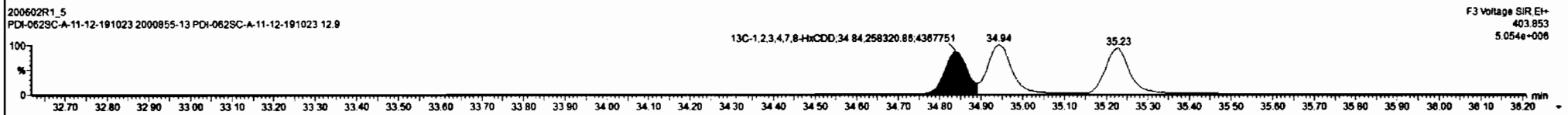
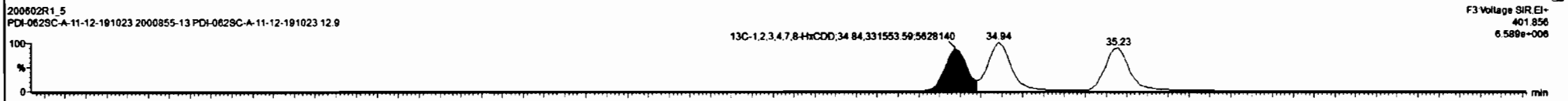
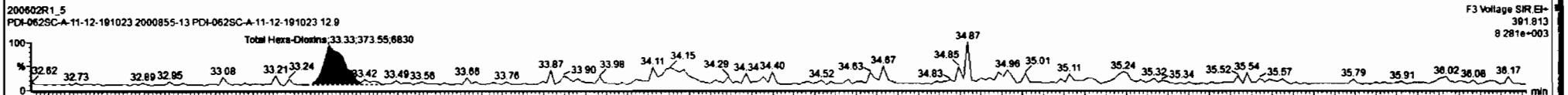
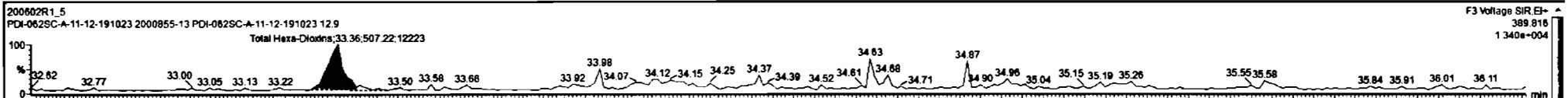
200602R1_5



200602R1_5



13C-1,2,3,4,6,8-HxCDF	8.78e5	0.50	NO	1.0000	10.048	34.36	1.900	199	100	0.467
Total Tetra-Dioxins				0.0083	10.048					0.0599
Total Penta-Dioxins				0.0081	10.048					0.0408
Total Hepta-Dioxins				0.0639	10.048			1.17		0.133 1.17
Total Tetra-Furans				0.7510	10.048					0.9577
1st Func. Penta-Furans				0.0025	10.048					0.0234
Total Penta-Furans				0.0025	10.048					0.0361
Total Hexa-Furans				0.9341	10.048					0.0536
Total Hepta-Furans				0.8734	10.048					0.0708
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



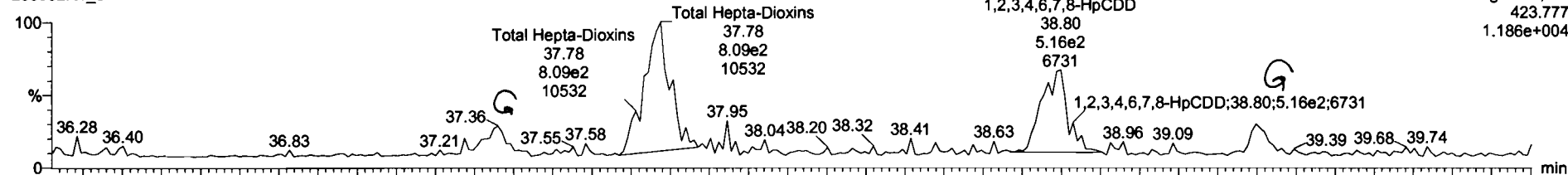
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Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

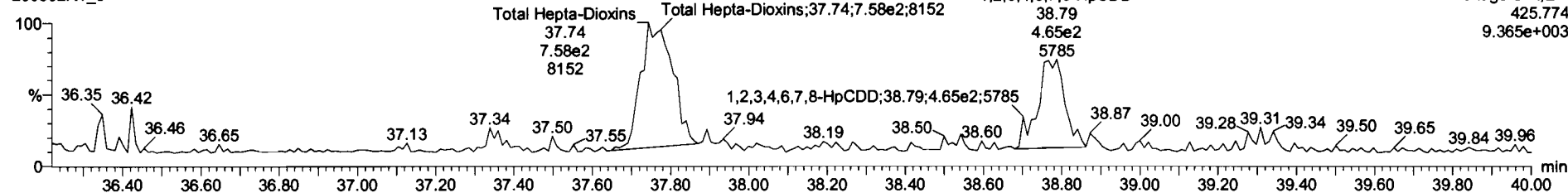
1,2,3,4,6,7,8-HpCDD

200602R1_5



F4:Voltage SIR,EI+
423.777
1.186e+004

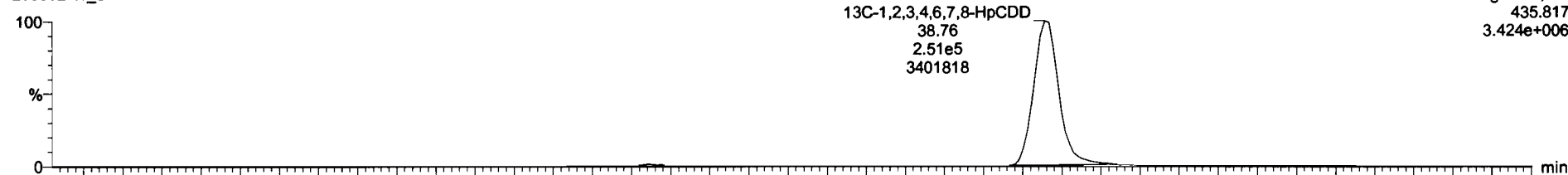
200602R1_5



F4:Voltage SIR,EI+
425.774
9.365e+003

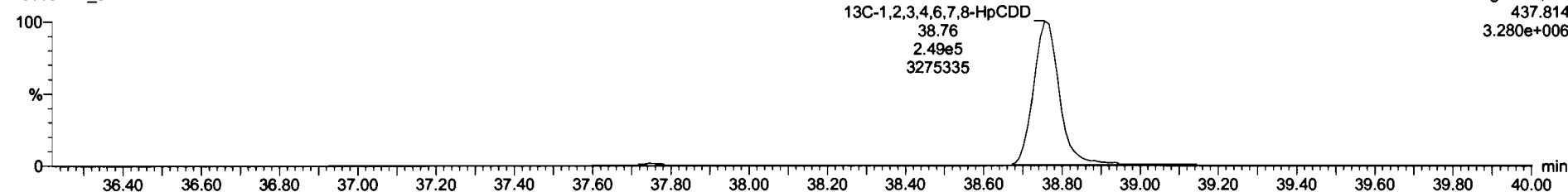
13C-1,2,3,4,6,7,8-HpCDD

200602R1_5



F4:Voltage SIR,EI+
435.817
3.424e+006

200602R1_5

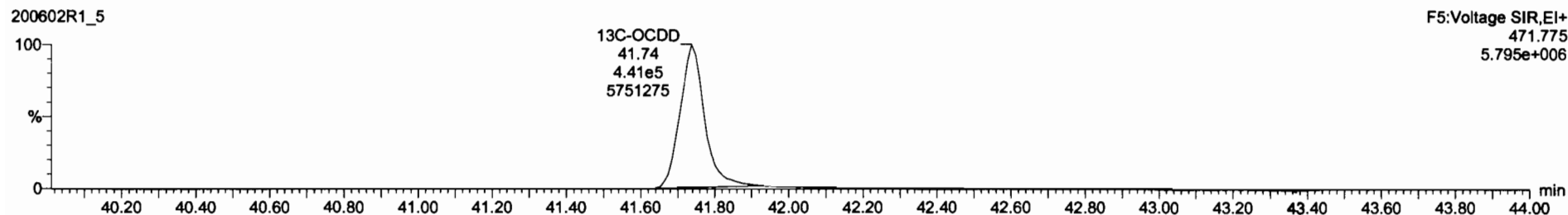
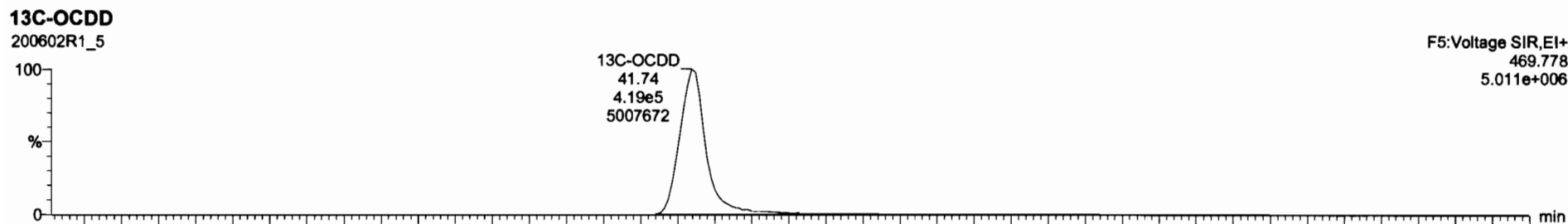
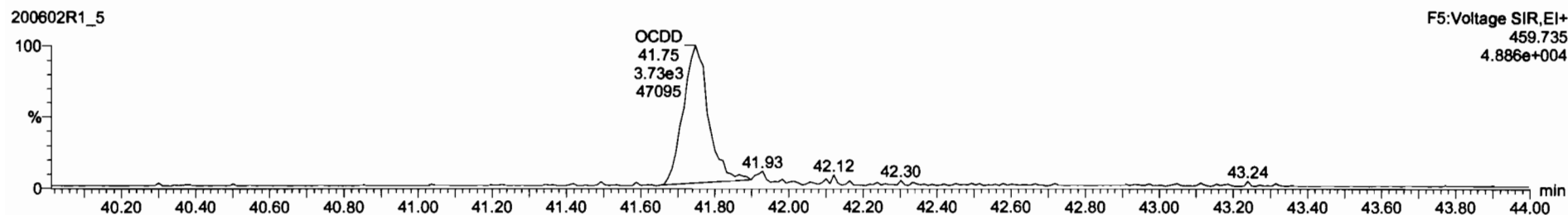
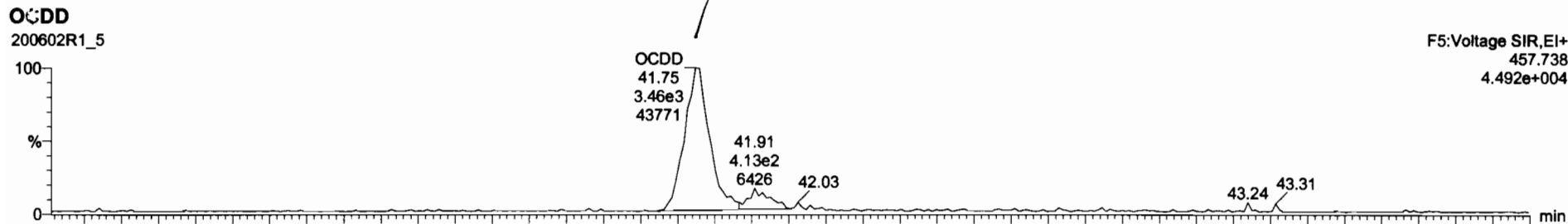


F4:Voltage SIR,EI+
437.814
3.280e+006

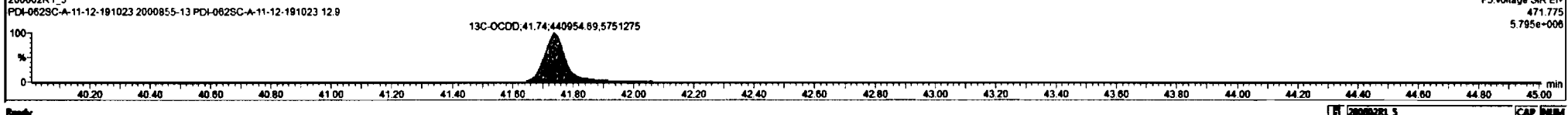
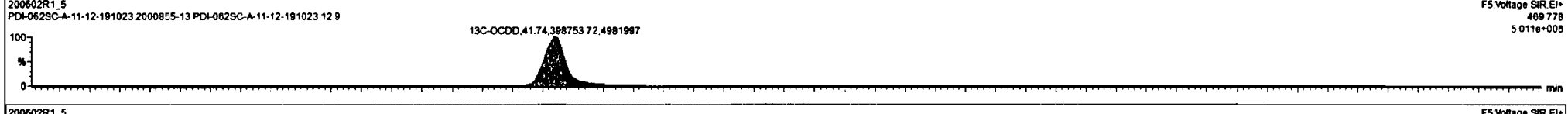
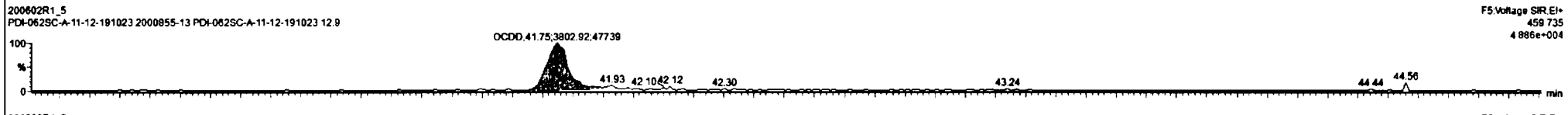
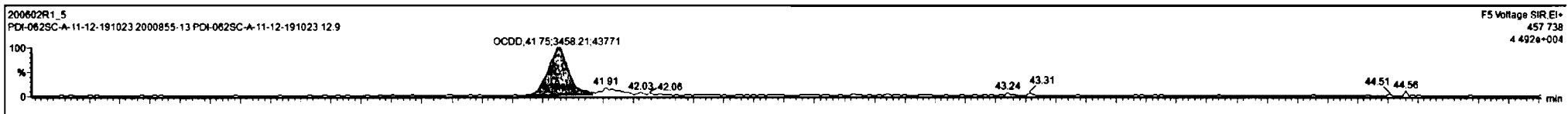
Dataset: Untitled

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Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023



2,3,7,8-TCDF			NO	0.7510	10.048					0.0978
1,2,3,7,8-PeCDF			NO	0.8825	10.048					0.0660
2,3,4,7,8-PeCDF			NO	0.9348	10.048					0.0627
1,2,3,4,7,8-HxCDF			NO	0.8845	10.048					0.0685
1,2,3,6,7,8-HxCDF			NO	0.8882	10.048					0.0857
2,3,4,6,7,8-HxCDF			NO	0.9341	10.048					0.0897
1,2,3,7,8,9-HxCDF			NO	0.8707	10.048					0.131
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.048					0.125
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.048					0.123
OCDF			NO	0.8085	10.048					0.131
13C-2,3,7,8-TCDD	1.05e6	0.79	NO	1.1583	10.048	28.51	1.025	172	86.2	0.178
13C-1,2,3,7,8-PeCDD	7.87e5	0.83	NO	0.8490	10.048	31.47	1.216	175	87.9	0.216
13C-1,2,3,4,7,8-HxCDD	5.90e5	1.28	NO	0.7790	10.048	34.84	1.014	172	86.4	0.336
13C-1,2,3,6,7,8-HxCDD	7.44e5	1.28	NO	1.0167	10.048	34.94	1.017	168	83.5	0.257
13C-1,2,3,7,8,9-HxCDD	6.89e5	1.29	NO	0.9027	10.048	35.23	1.025	174	87.6	0.290
13C-1,2,3,4,6,7,8-HpCDD	5.00e5	1.01	NO	0.6882	10.048	38.76	1.128	165	82.8	0.370
13C-OCDD	8.40e5	0.90	NO	0.6521	10.048	41.74	1.215	292	73.5	0.327
13C-2,3,7,8-TCDF	1.31e6	0.77	NO	1.0590	10.048	25.63	0.981	164	82.8	0.266
13C-1,2,3,7,8-PeCDF	1.16e6	1.60	NO	0.8380	10.048	30.16	1.167	183	92.1	0.318
13C-2,3,4,7,8-PeCDF	1.11e6	1.59	NO	0.8186	10.048	31.16	1.204	181	90.8	0.327



Dataset: Untitled

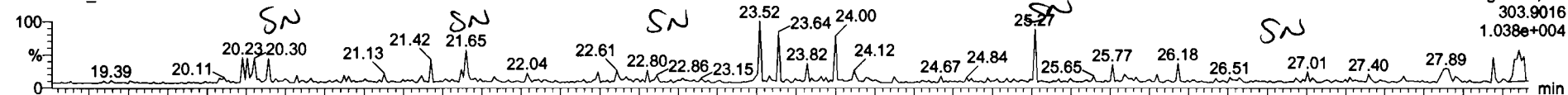
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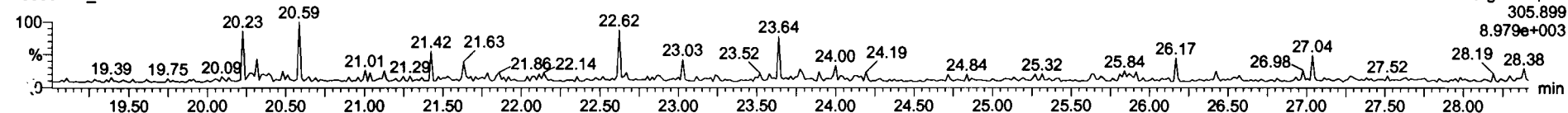
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2,3,7,8-TCDF

200602R1_5

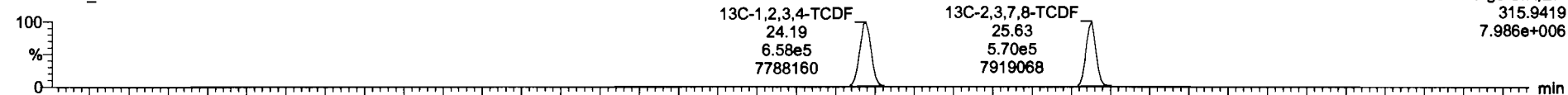


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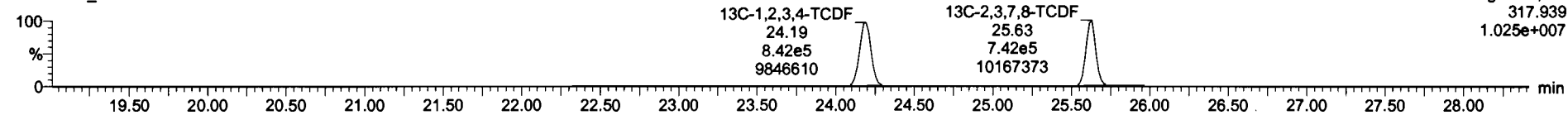


13C-2,3,7,8-TCDF

200602R1_5

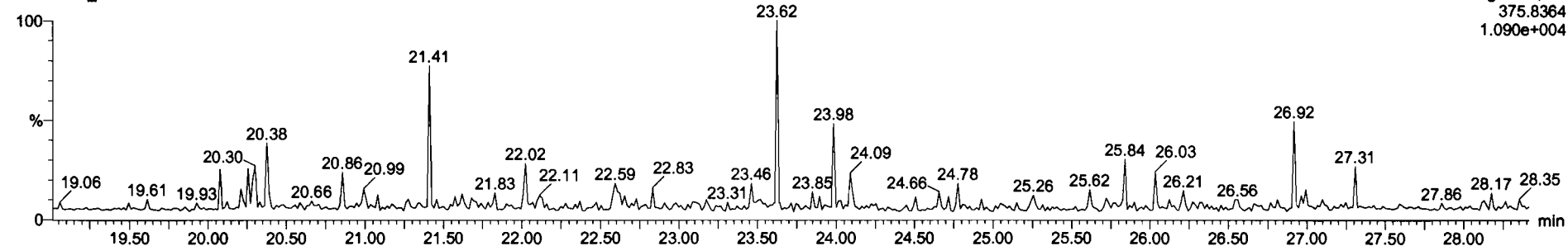


200602R1_5



DPE1

200602R1_5



Dataset: Untitled

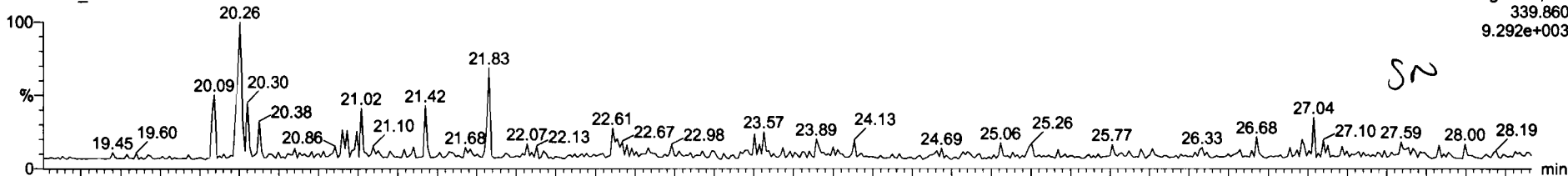
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Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023

1st Func. Penta-Furans

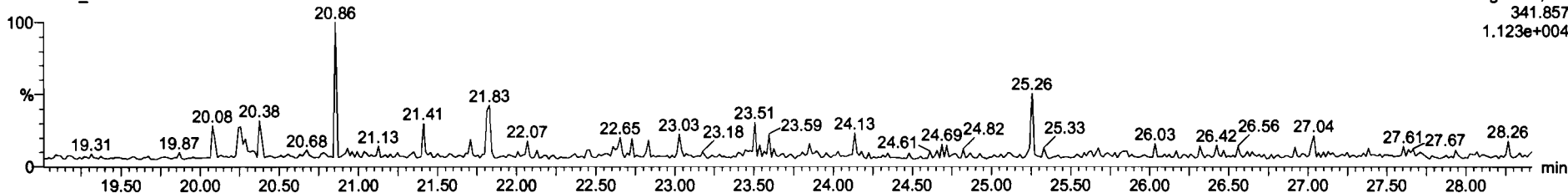
200602R1_5

F1:Voltage SIR,EI+
339.860
9.292e+003



200602R1_5

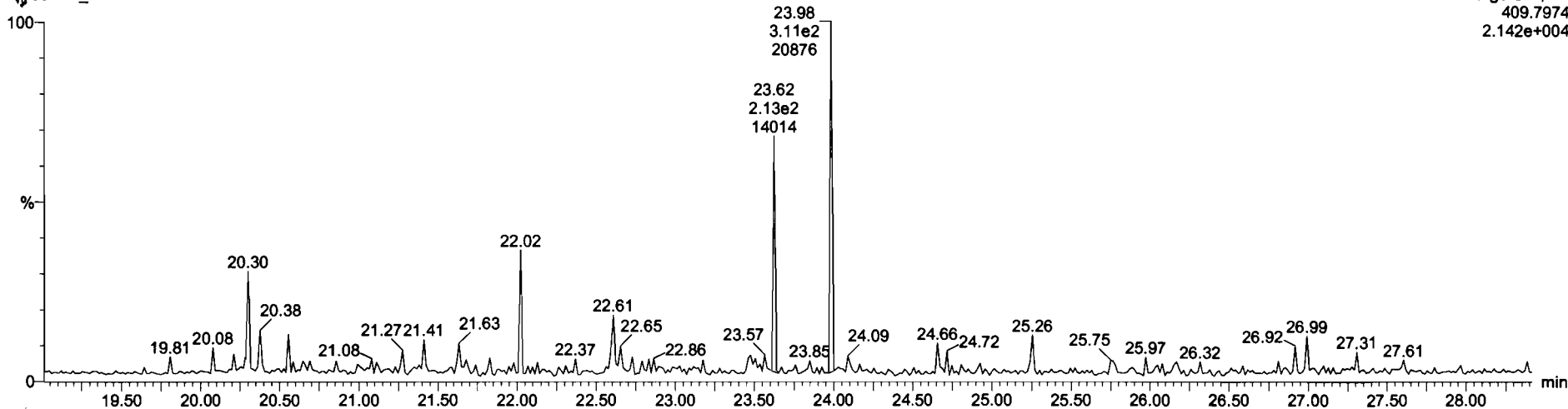
F1:Voltage SIR,EI+
341.857
1.123e+004



DPE6

200602R1_5

F1:Voltage SIR,EI+
409.7974
2.142e+004

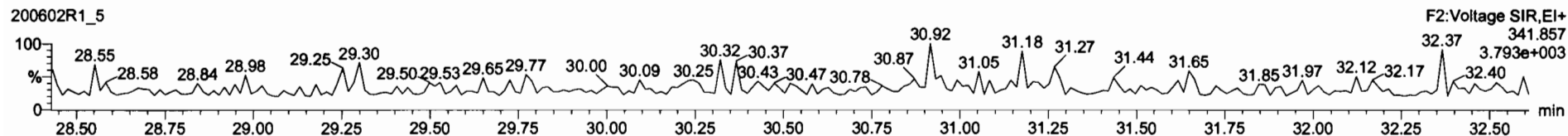
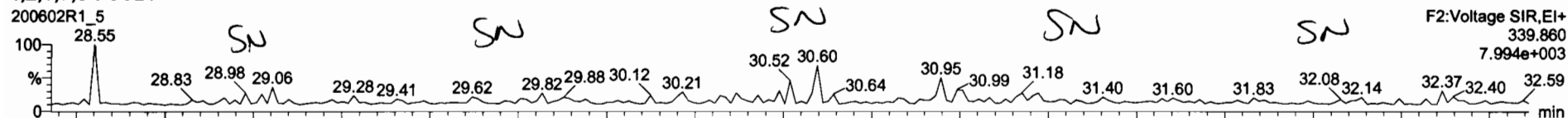


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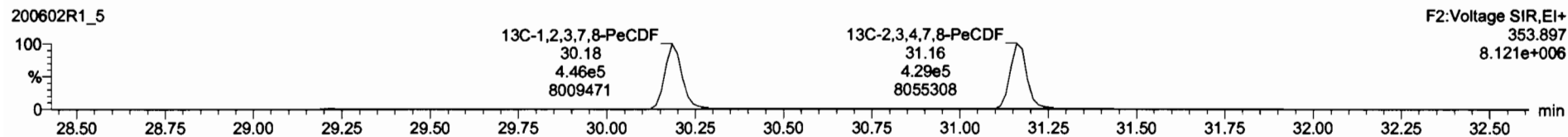
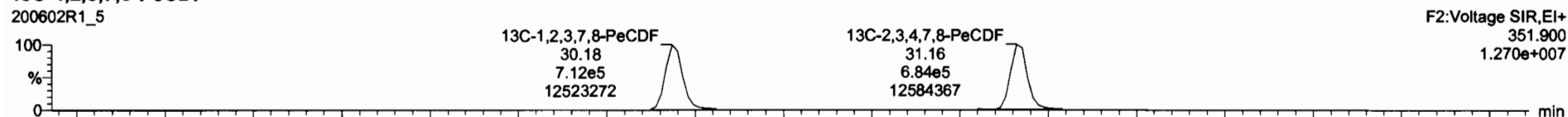
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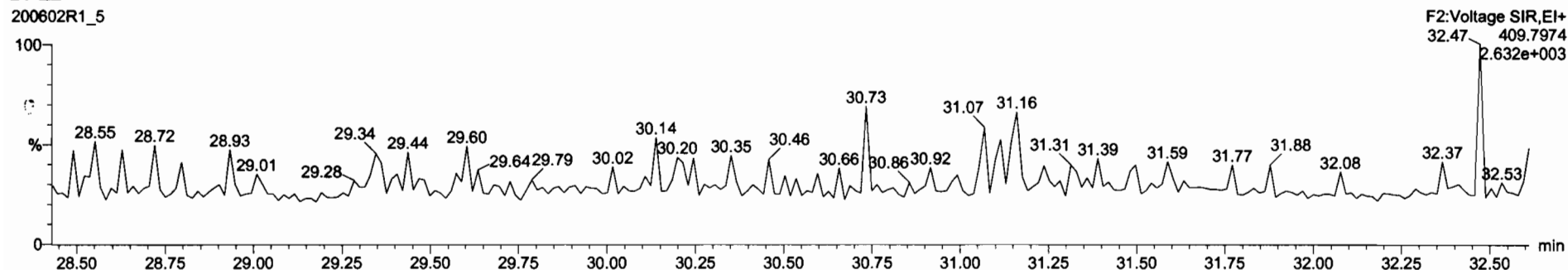
1,2,3,7,8-PeCDF



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



DPE2

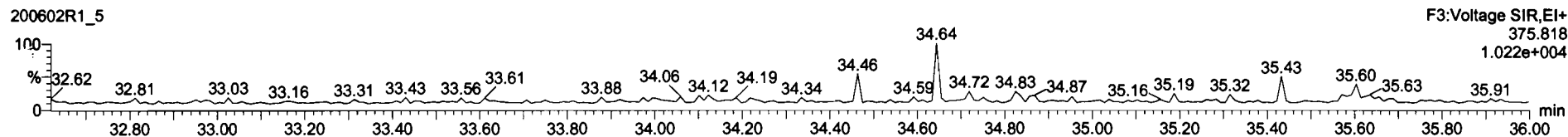
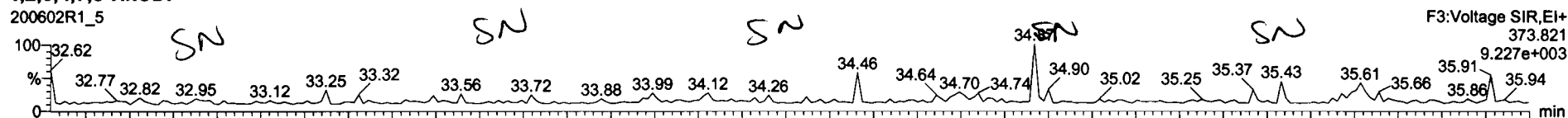


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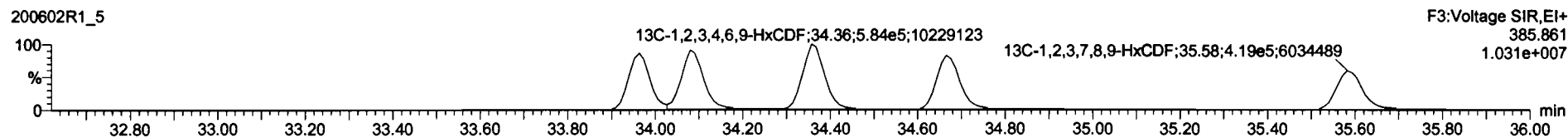
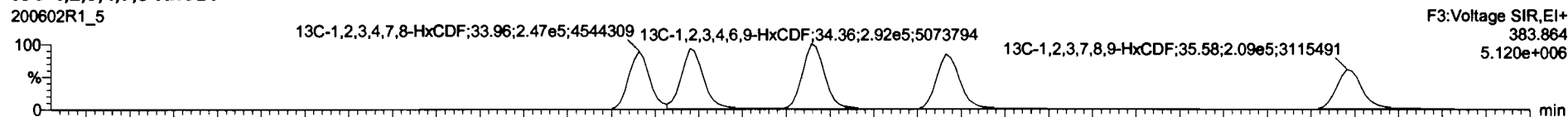
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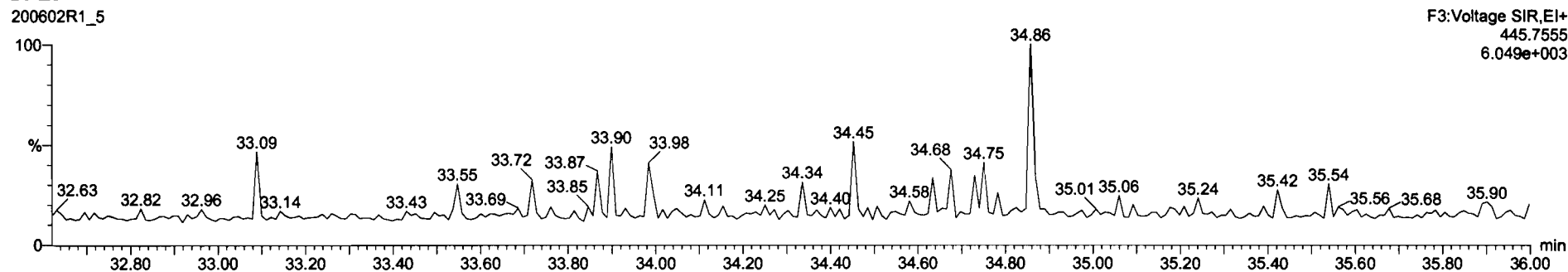
1,2,3,4,7,8-HxCDF



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



DPE3



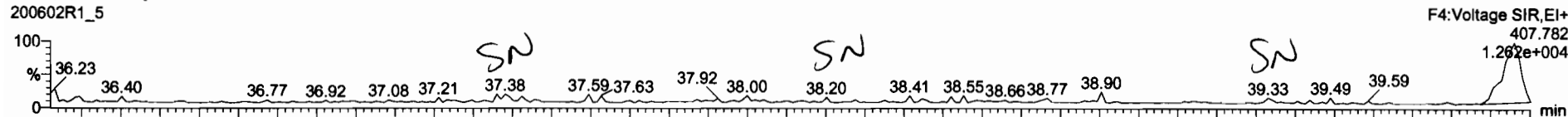
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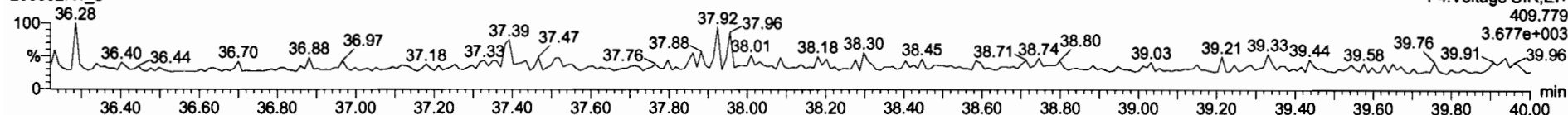
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1,2,3,4,6,7,8-HpCDF

200602R1_5

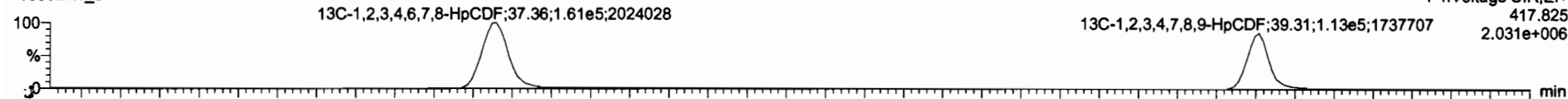


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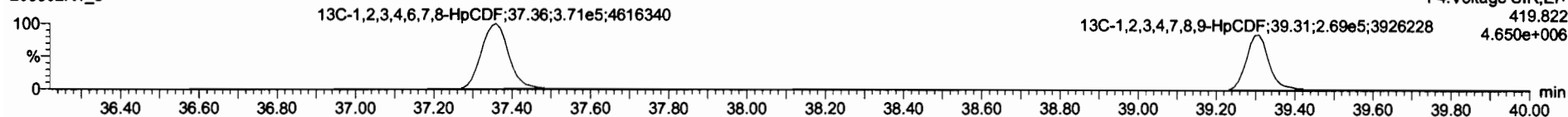


13C-1,2,3,4,6,7,8-HpCDF

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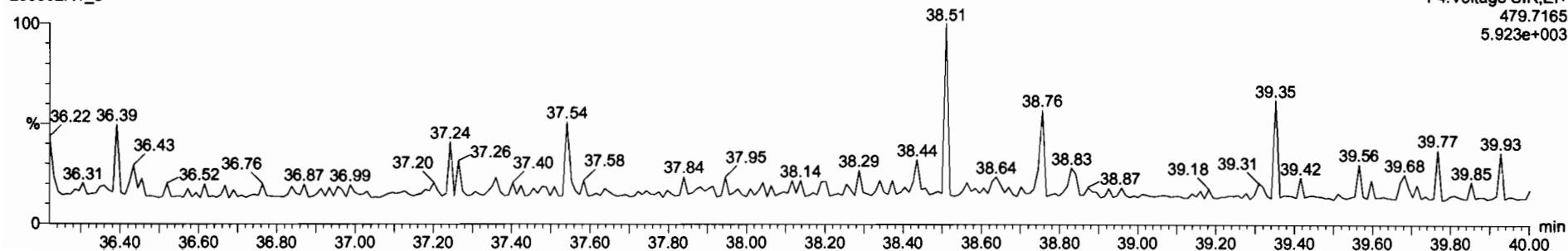


200602R1_5



DPE4

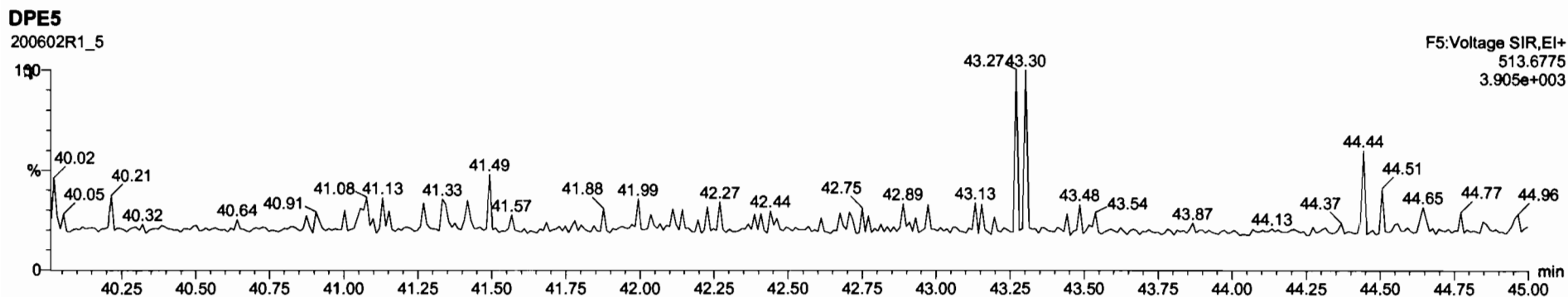
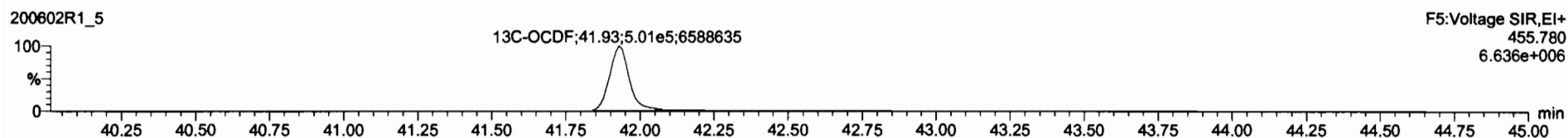
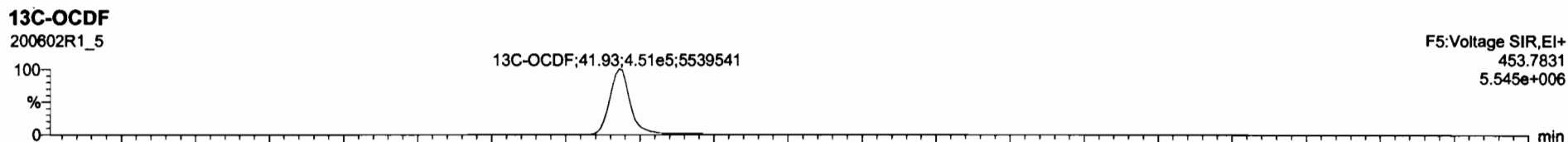
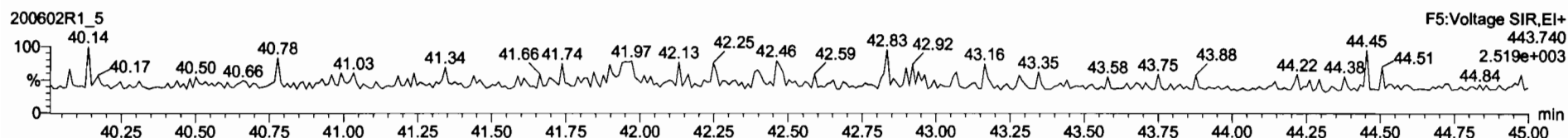
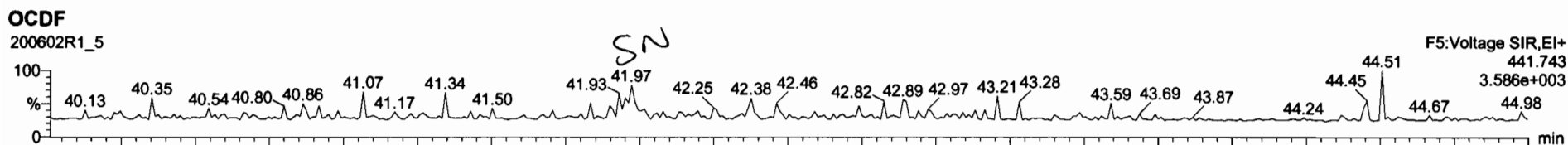
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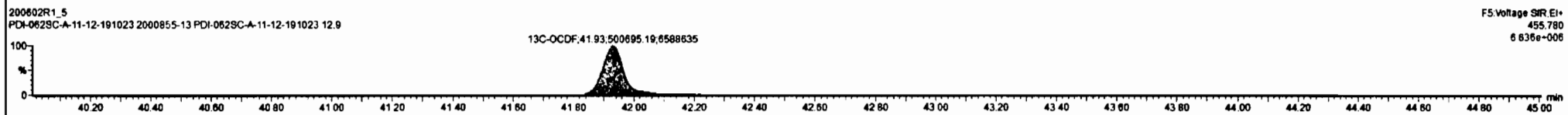
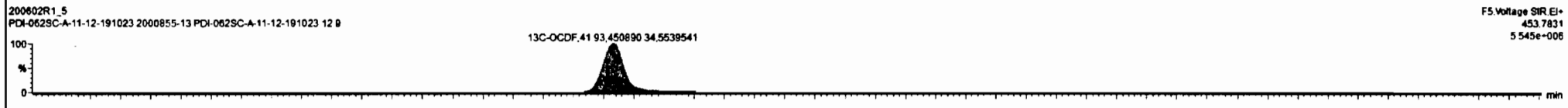
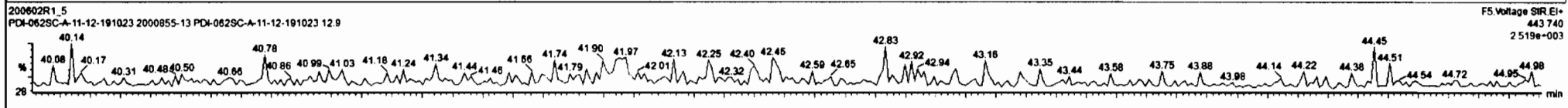
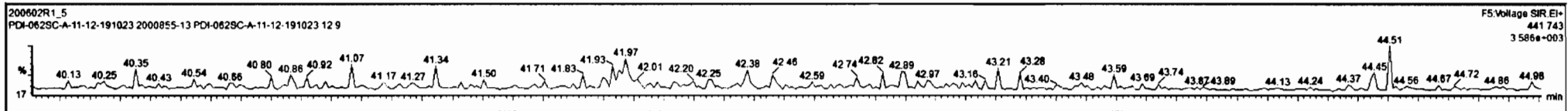
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OCDD	7.28e3	0.91	NO	0.9138	10.048	41.75	1.900	3.77	0.196	3.77
2,3,7,8-TCDF			NO	0.7510	10.048				0.0978	
1,2,3,7,8-PeCDF			NO	0.8825	10.048				0.0690	
2,3,4,7,8-PeCDF			NO	0.8348	10.048				0.0627	
1,2,3,4,7,8-HxCDF			NO	0.8845	10.048				0.0885	
1,2,3,6,7,8-HxCDF			NO	0.8882	10.048				0.0857	
2,3,4,6,7,8-HxCDF			NO	0.9341	10.048				0.0887	
1,2,3,7,8,9-HxCDF			NO	0.8797	10.048				0.131	
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.048				0.125	
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.048				0.123	
13C-2,3,7,8-TCDD	1.05e6	0.79	NO	1.1983	10.048	28.51	1.025	172	86.2	0.178
13C-1,2,3,7,8-PeCDD	7.87e5	0.83	NO	0.8490	10.048	31.47	1.218	175	87.9	0.216
13C-1,2,3,4,7,8-HxCDD	5.90e5	1.28	NO	0.7790	10.048	34.84	1.014	172	86.4	0.338
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13C-1,2,3,7,8,9-HxCDD	6.83e5	1.29	NO	0.9027	10.048	35.23	1.825	174	87.8	0.290
13C-1,2,3,4,6,7,8-HpCDD	5.00e5	1.01	NO	0.8882	10.048	38.76	1.128	165	82.8	0.370
13C-OCDD	8.48e5	0.90	NO	0.8521	10.048	41.74	1.215	292	73.5	0.327
13C-2,3,7,8-TCDF	1.31e6	0.77	NO	1.0580	10.048	25.63	0.991	164	82.6	0.266
13C-1,2,3,7,8-PeCDF	1.16e6	1.80	NO	0.8380	10.048	30.18	1.187	183	92.1	0.318
13C-2,3,4,7,8-PeCDF	1.11e6	1.58	NO	0.8186	10.048	31.18	1.204	181	90.8	0.327

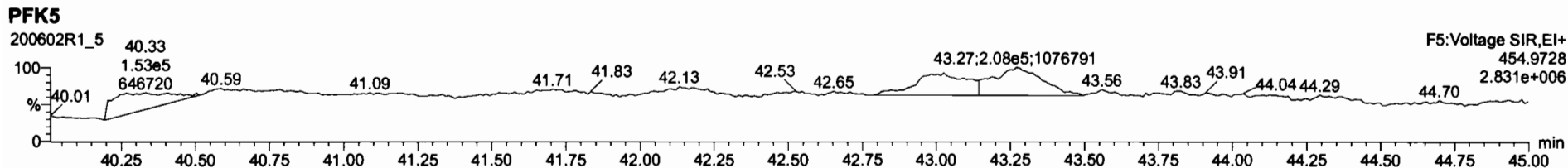
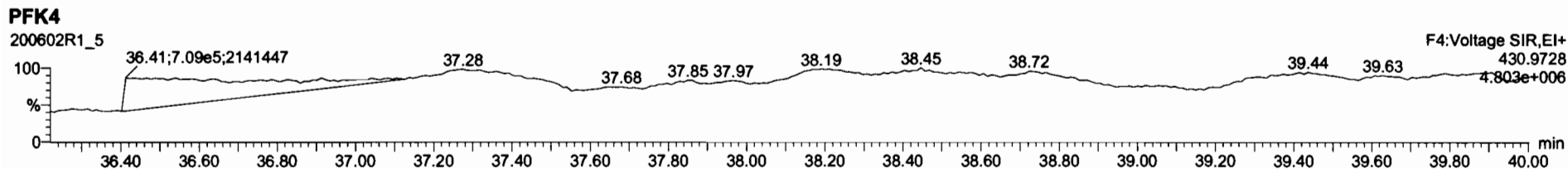
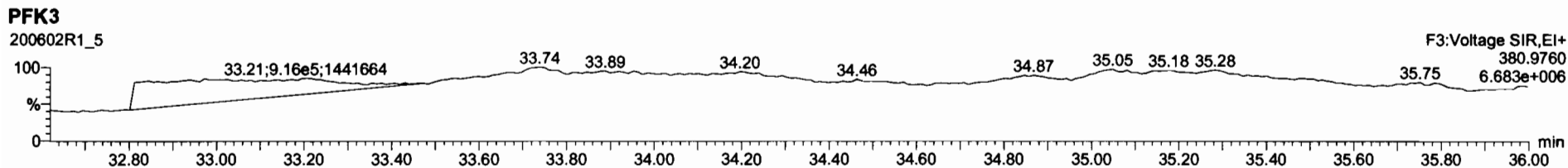
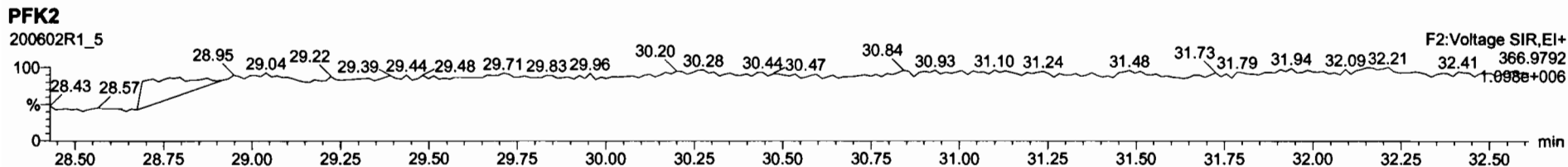
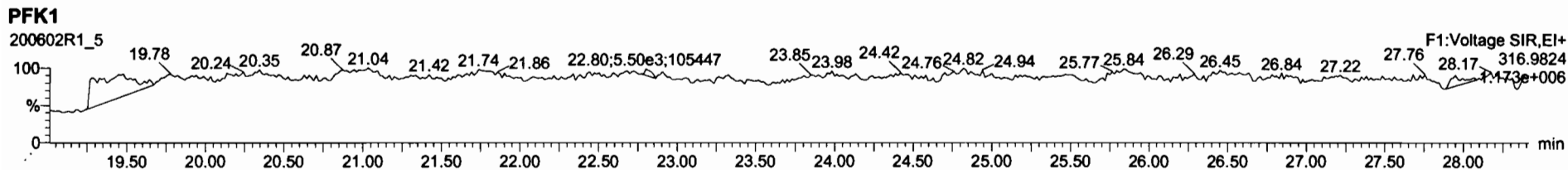


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Last Altered: Tuesday, June 02, 2020 12:26:42 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 12:27:16 PM Pacific Daylight Time

Name: 200602R1_5, Date: 02-Jun-2020, Time: 11:40:19, ID: 2000855-13 PDI-062SC-A-11-12-191023 12.9, Description: PDI-062SC-A-11-12-191023



Dataset: U:\VG12.PRO\Results\200602R1\200602R1-6.qld

Last Altered: Tuesday, June 02, 2020 2:31:21 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 2:31:52 PM Pacific Daylight Time

GPB 06/02/2020

LT 06/02/2020

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

Name: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023

	RA	n/y	RRF	W/Wb1	Pred. RT	RT	RRR	RRR1	RRR2	RRR3	RRR4	RRR5	RRR6	
1 2,3,7,8-TCDD			NO	0.888	10.035	26.531		1.001					0.104	
2 1,2,3,7,8-PeCDD			NO	0.908	10.035	31.473		1.001					0.0900	
3 1,2,3,4,7,8-HxCDD			NO	1.03	10.035	34.836		1.000					0.110	
4 1,2,3,6,7,8-HxCDD			NO	0.892	10.035	34.932		1.000					0.113	
5 1,2,3,7,8,9-HxCDD			NO	0.887	10.035	35.220		1.000					0.127	
6 1,2,3,4,6,7,8-HpCDD	1.70e3	1.00	NO	0.864	10.035	38.768	38.77	1.000	1.000	0.76591			0.112	0.766
7 OCDD	7.39e3	0.85	NO	0.914	10.035	41.716	41.73	1.000	1.000	3.9418			0.141	3.94
8 2,3,7,8-TCDF			NO	0.751	10.035	25.641		1.001					0.109	
9 1,2,3,7,8-PeCDF			NO	0.893	10.035	30.190		1.001					0.0534	
10 2,3,4,7,8-PeCDF			NO	0.935	10.035	31.192		1.001					0.0511	
11 1,2,3,4,7,8-HxCDF			NO	0.884	10.035	33.952		1.000					0.0420	
12 1,2,3,6,7,8-HxCDF			NO	0.889	10.035	34.079		1.000					0.0414	
13 2,3,4,6,7,8-HxCDF			NO	0.934	10.035	34.690		1.001					0.0447	
14 1,2,3,7,8,9-HxCDF	7.89e1	0.88	YES	0.871	10.035	35.571	35.56	1.000	1.000	0.026099			0.0299	0.0221
15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.035	37.376		1.001					0.0578	
16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.035	39.299		1.000					0.0626	
17 OCDF			NO	0.806	10.035	41.919		1.000					0.0818	
18 13C-2,3,7,8-TCDD	1.14e6	0.79	NO	1.16	10.035	26.538	26.50	1.026	1.025	185.03	92.8		0.186	
19 13C-1,2,3,7,8-PeCDD	8.47e5	0.63	NO	0.849	10.035	31.729	31.45	1.227	1.216	186.42	93.5		0.176	
20 13C-1,2,3,4,7,8-HxCDD	6.40e5	1.27	NO	0.779	10.035	34.830	34.83	1.014	1.014	182.26	91.4		0.422	
21 13C-1,2,3,6,7,8-HxCDD	7.90e5	1.27	NO	1.02	10.035	34.944	34.93	1.017	1.017	172.19	86.4		0.323	
22 13C-1,2,3,7,8,9-HxCDD	7.11e5	1.26	NO	0.903	10.035	35.215	35.21	1.025	1.025	174.75	87.7		0.364	
23 13C-1,2,3,4,6,7,8-HpCDD	5.13e5	1.06	NO	0.689	10.035	38.739	38.76	1.128	1.128	165.01	82.8		0.276	
24 13C-OCDD	8.18e5	0.89	NO	0.652	10.035	41.761	41.72	1.216	1.215	278.10	69.8		0.344	
25 13C-2,3,7,8-TCDF	1.41e6	0.77	NO	1.06	10.035	25.578	25.61	0.989	0.991	174.97	87.8		0.258	
26 13C-1,2,3,7,8-PeCDF	1.26e6	1.59	NO	0.838	10.035	30.111	30.17	1.165	1.167	198.87	99.8		0.322	
27 13C-2,3,4,7,8-PeCDF	1.22e6	1.60	NO	0.817	10.035	31.065	31.16	1.202	1.205	196.90	98.8		0.330	
28 13C-1,2,3,4,7,8-HxCDF	7.94e5	0.51	NO	1.01	10.035	33.961	33.95	0.989	0.989	174.80	87.7		0.524	
29 13C-1,2,3,6,7,8-HxCDF	8.77e5	0.51	NO	1.17	10.035	34.085	34.07	0.992	0.992	166.70	83.6		0.453	
30 13C-2,3,4,6,7,8-HxCDF	8.14e5	0.50	NO	1.02	10.035	34.659	34.65	1.009	1.009	176.53	88.6		0.517	
31 13C-1,2,3,7,8,9-HxCDF	6.92e5	0.52	NO	0.860	10.035	35.558	35.57	1.035	1.036	178.59	89.6		0.614	

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-6.qld

Last Altered: Tuesday, June 02, 2020 2:31:21 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 2:31:52 PM Pacific Daylight Time

Name: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023

32	13C-1,2,3,4,6,7,8-HpCDF	5.65e5	0.42	NO	0.774	10.035	37.307	37.34	1.086	1.087	161.65	81.1	0.342	
33	13C-1,2,3,4,7,8,9-HpCDF	3.99e5	0.43	NO	0.521	10.035	39.336	39.30	1.145	1.144	169.64	85.1	0.508	
34	13C-OCDF	9.45e5	0.87	NO	0.746	10.035	41.933	41.92	1.221	1.220	281.08	70.5	0.271	
35	37Cl-2,3,7,8-TCDD	4.48e5			1.04	10.035	26.569	26.53	1.028	1.026	80.799	101	0.0806	
36	13C-1,2,3,4-TCDD	1.07e6	0.79	NO	1.00	10.035	25.890	25.85	1.000	1.000	199.31	100	0.215	
37	13C-1,2,3,4-TCDF	1.51e6	0.79	NO	1.00	10.035	24.360	24.18	1.000	1.000	199.31	100	0.273	
38	13C-1,2,3,4,6,9-HxCDF	8.99e5	0.51	NO	1.00	10.035	34.420	34.35	1.000	1.000	199.31	100	0.528	
39	Total Tetra-Dioxins				0.888	10.035	24.620		0.000		0.17870		0.104	0.179
40	Total Penta-Dioxins				0.908	10.035	29.960		0.000		0.077744		0.0479	0.0777
41	Total Hexa-Dioxins				0.892	10.035	33.635		0.000		0.38317		0.122	0.633
42	Total Hepta-Dioxins				0.864	10.035	37.640		0.000		1.7841		0.112	1.78
43	Total Tetra-Furans				0.751	10.035	23.610		0.000				0.0549	
44	1st Func. Penta-Furans				0.893	10.035	27.580		0.000				0.0368	
45	Total Penta-Furans				0.893	10.035	29.275		0.000				0.0247	
46	Total Hexa-Furans				0.934	10.035	33.555		0.000		0.00000		0.0208	0.0623
47	Total Hepta-Furans				0.873	10.035	37.835		0.000				0.0311	

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-6.qld

Last Altered: Tuesday, June 02, 2020 2:31:21 PM Pacific Daylight Time
 Printed: Tuesday, June 02, 2020 2:31:52 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: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Comp	EMPC	DU
Total Tetra-Dioxins	24.36	5.318e3	7.293e3	4.150e2	4.968e2	0.84	NO	9.118e2	0.17870	0.17870	0.104

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Comp	EMPC	DU
Total Penta-Dioxins	29.73	2.615e3	3.629e3	1.123e2	1.877e2	0.60	NO	2.999e2	0.077744	0.077744	0.0479

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Comp	EMPC	DU
Total Hexa-Dioxins	33.33	1.240e4	1.326e4	6.675e2	5.570e2	1.20	NO	1.224e3	0.38317	0.38317	0.122
Total Hexa-Dioxins	33.90	6.018e3	6.076e3	4.501e2	3.496e2	1.29	NO	0.000e0	0.00000	0.25025	0.122

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Comp	EMPC	DU
Total Hepta-Dioxins	37.74	1.420e4	1.260e4	1.106e3	1.158e3	0.95	NO	2.264e3	1.0182	1.0182	0.112
1,2,3,4,6,7,8-HpCDD	38.77	1.276e4	1.776e4	8.495e2	8.533e2	1.00	NO	1.703e3	0.76591	0.76591	0.112

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Comp	EMPC	DU

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	NY	Resp	Comp	EMPC	DU

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-6.qld

Last Altered: Tuesday, June 02, 2020 2:31:21 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 2:31:52 PM Pacific Daylight Time

Name: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023

Penta-Furans

Peak	Area	Height	Height	Resp	Resp	Ratio	Ident	Area	Area	Area	Area
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Hexa-Furans

Peak	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Ident	Area	Area	Area	Area
1,2,3,7,8,9-HxCDF	35.56	1.671e3	1.506e3	3.704e1	4.191e1	0.88	YES	7.894e1	0.00000	0.022119	0.0299
Total Hexa-Furans	35.59	2.713e3	2.869e3	1.015e2	6.678e1	1.52	YES	0.000e0	0.00000	0.040177	0.0208

Hepta-Furans

Peak	Area	m1 Height	m2 Height	m1 Resp	m2 Resp	Ratio	Ident	Area	Area	Area	Area
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Dataset: Untitled

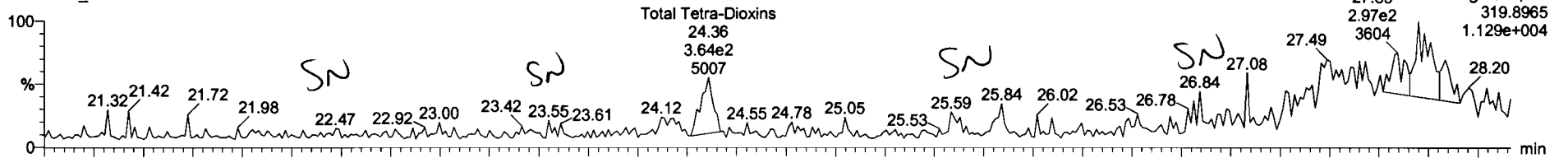
Last Altered: Tuesday, June 02, 2020 1:13:50 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 1:14:55 PM Pacific Daylight Time

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

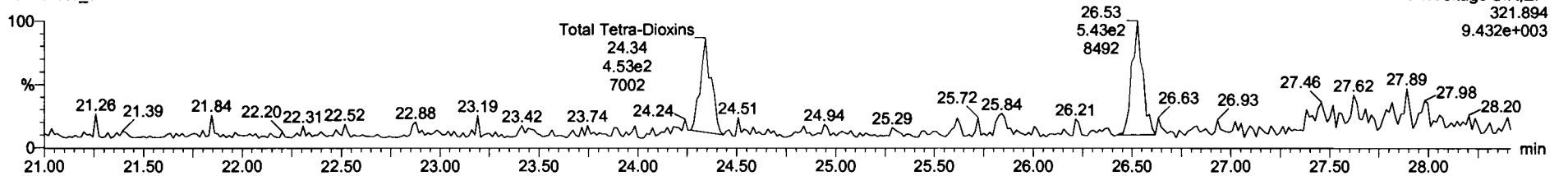
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2,3,7,8-TCDD

200602R1_6

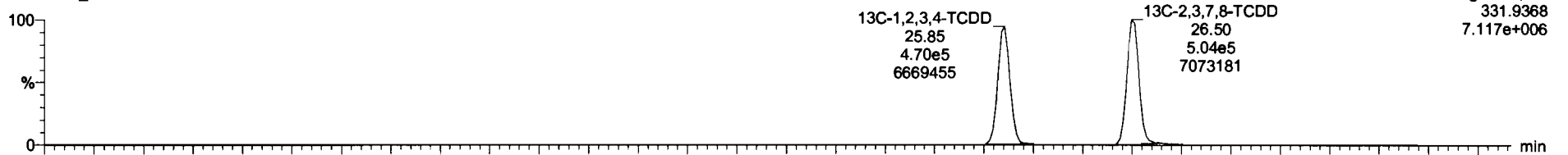


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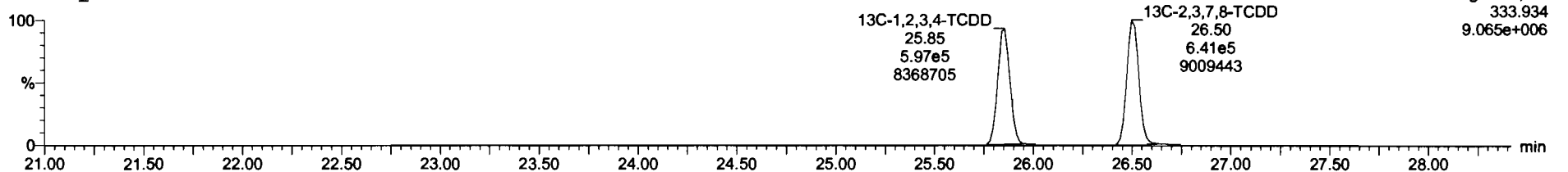


13C-2,3,7,8-TCDD

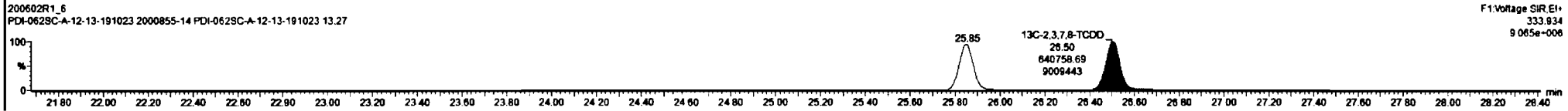
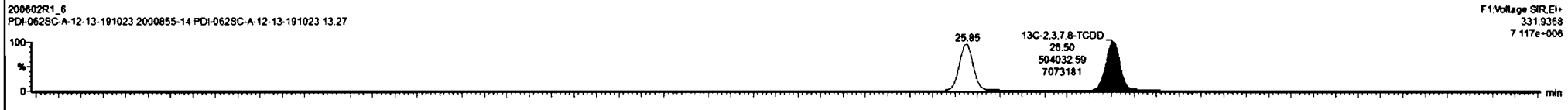
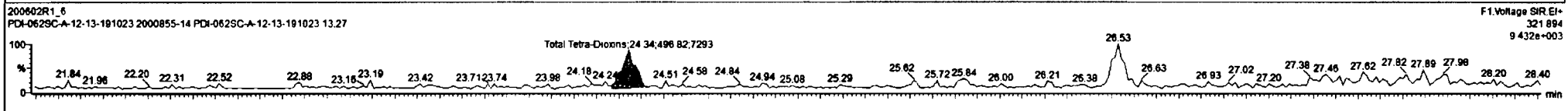
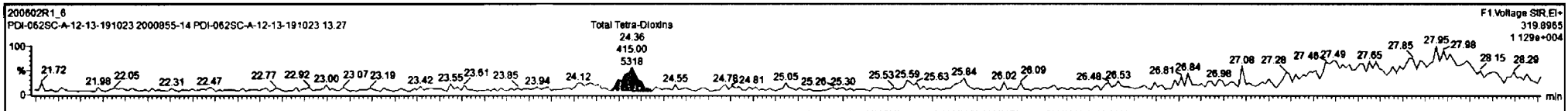
200602R1_6



200602R1_6



13C-1,2,3,4,6,8-HxCDF	8.99e5	0.51	NO	1.0000	10.035	34.35	1.000	199	100	0.528	
Total Penta-Dioxins				0.9081	10.035			0.0777		0.6479	0.0780
Total Hexa-Dioxins				0.8823	10.035			0.383		0.122	0.633
Total Hepta-Dioxins				0.8639	10.035			1.78		0.112	1.78
Total Tetra-Furans				0.7510	10.035					0.9549	
1st Func. Penta-Furans				0.8825	10.035					0.0368	
Total Penta-Furans				0.8825	10.035					0.0247	
Total Hexa-Furans				0.8341	10.035			0.000		0.0208	0.0620
Total Hepta-Furans				0.8734	10.035					0.0311	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											



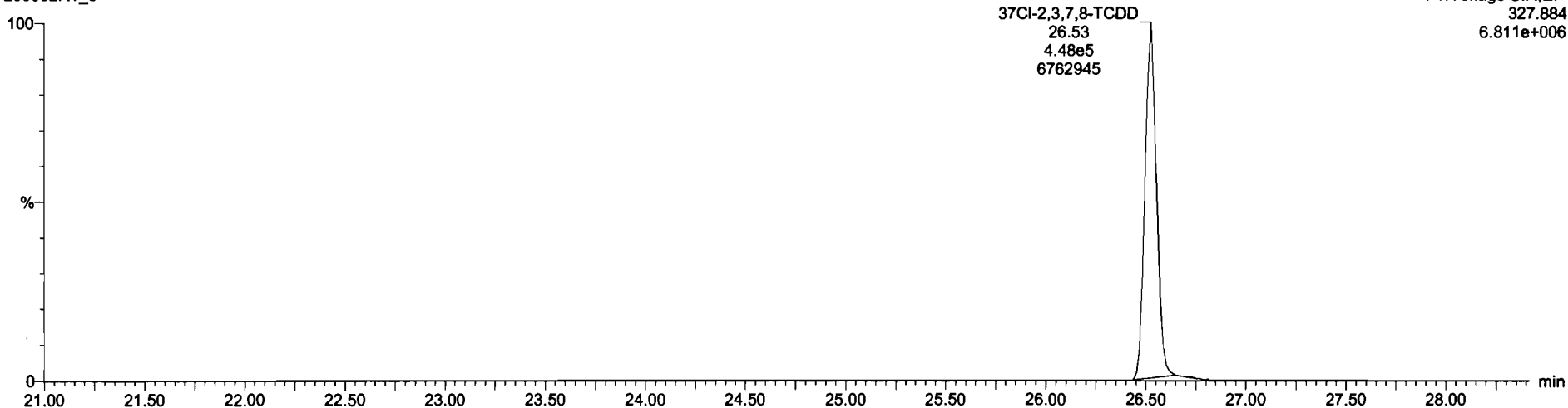
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Printed: Tuesday, June 02, 2020 1:14:55 PM Pacific Daylight Time

Name: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023

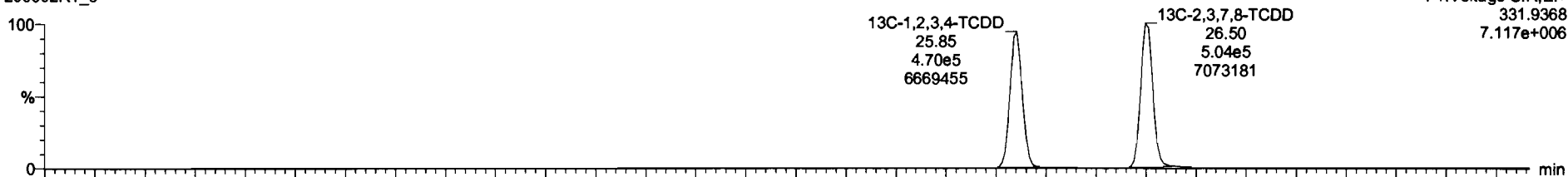
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200602R1_6

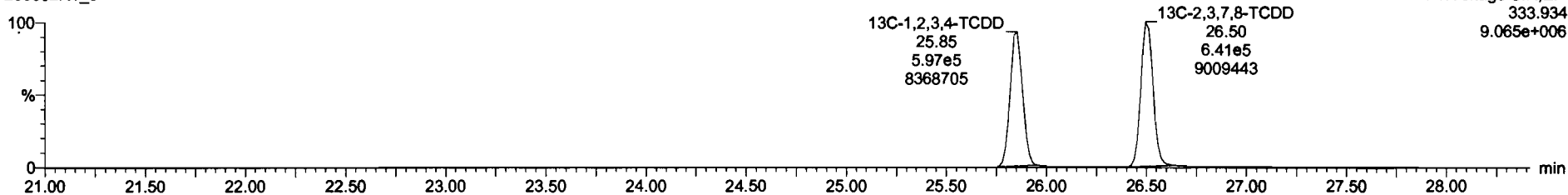


13C-1,2,3,4-TCDD

200602R1_6



200602R1_6



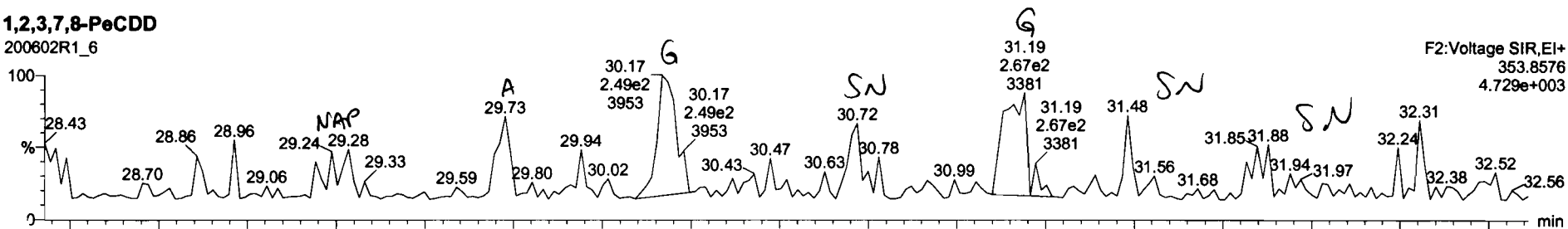
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Name: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023

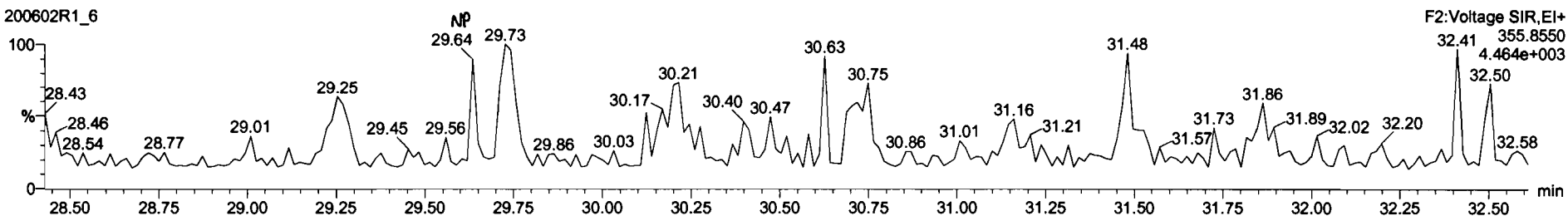
1,2,3,7,8-PeCDD

200602R1_6



F2:Voltage SIR,EI+
353.8576
4.729e+003

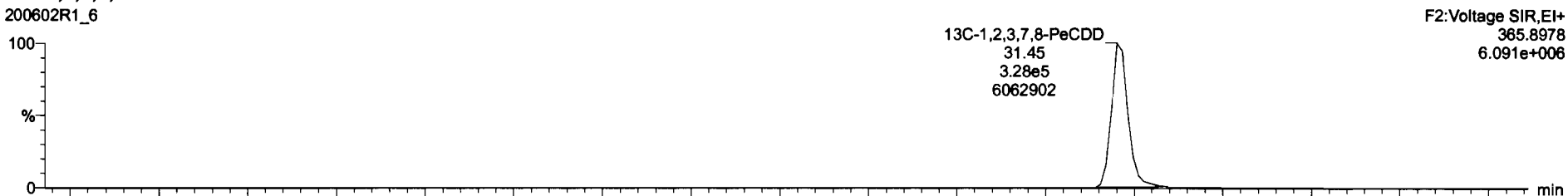
200602R1_6



F2:Voltage SIR,EI+
355.8550
4.464e+003

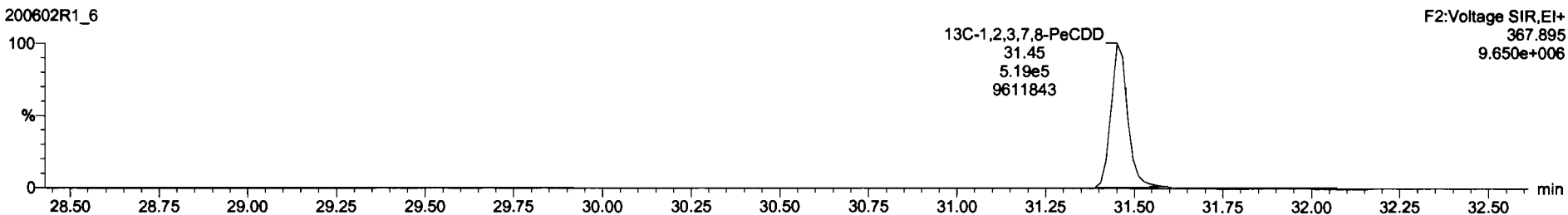
13C-1,2,3,7,8-PeCDD

200602R1_6



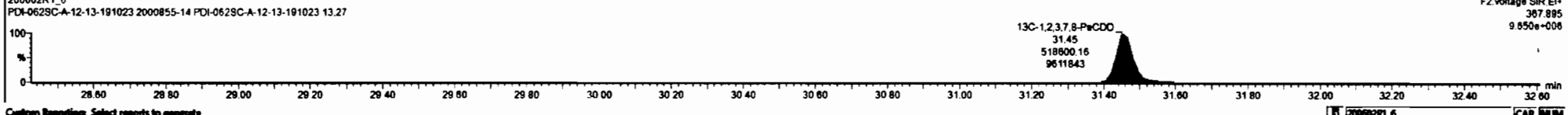
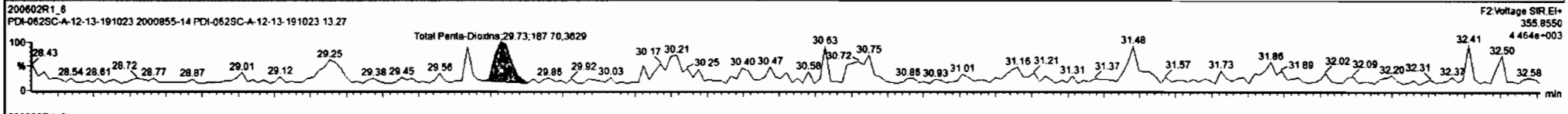
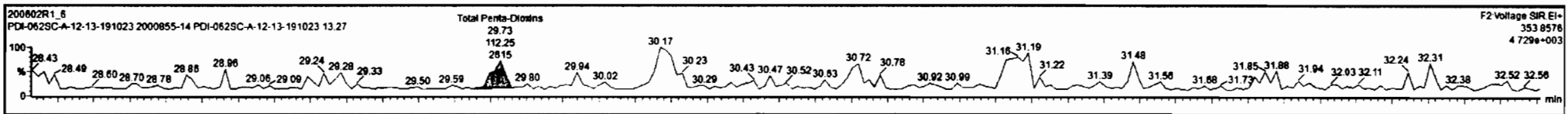
F2:Voltage SIR,EI+
365.8978
6.091e+006

200602R1_6



F2:Voltage SIR,EI+
367.895
9.650e+006

13C-1,2,3,4,6,8-HxCDF	6.89e5	0.51	NO	1.0060	10.035	34.35	1.000	199	100	0.528
Total Tetra-Dioxins				0.6883	10.035			0.179		0.104 0.179
Total Hexa-Dioxins				0.9823	10.035			0.383		0.122 0.633
Total Hepta-Dioxins				0.9839	10.035			1.78		0.112 1.78
Total Tetra-Furans				0.7510	10.035					0.9549
1st Func. Penta-Furans				0.9825	10.035					0.0368
Total Penta-Furans				0.9825	10.035					0.0247
Total Hexa-Furans				0.8341	10.035			0.000		0.0208 0.0620
Total Hepta-Furans				0.8734	10.035					0.0311
PPK1										
PPK2										
PPK3										
PPK4										
PPK5										
DPE1										
DPE2										
DPE3										
DPE4										
DPE5										
DPE6										



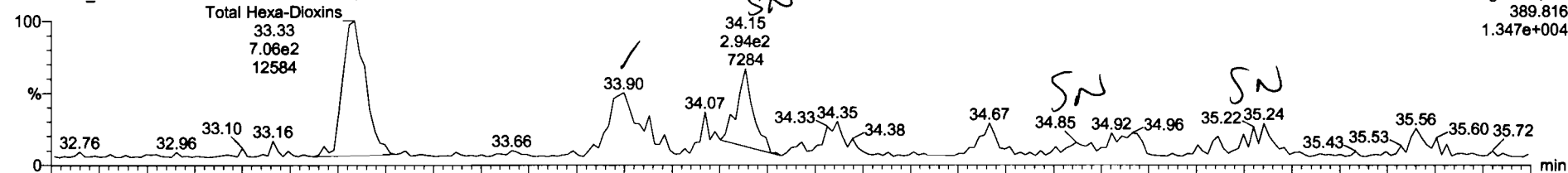
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Last Altered: Tuesday, June 02, 2020 1:13:50 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 1:14:55 PM Pacific Daylight Time

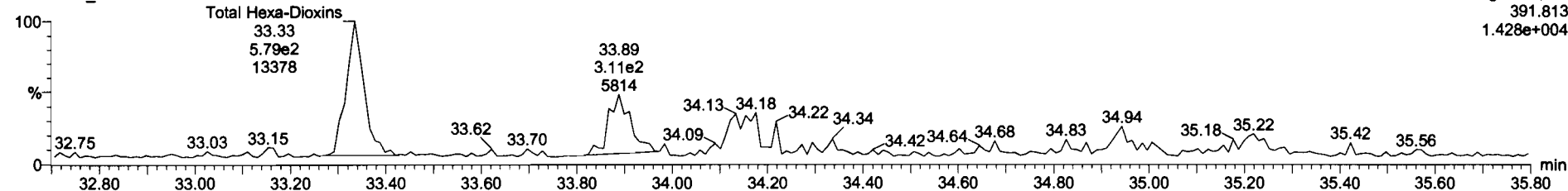
Name: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023

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

200602R1_6

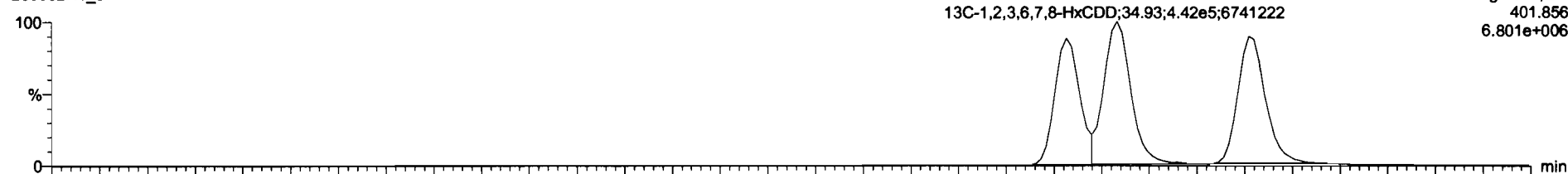


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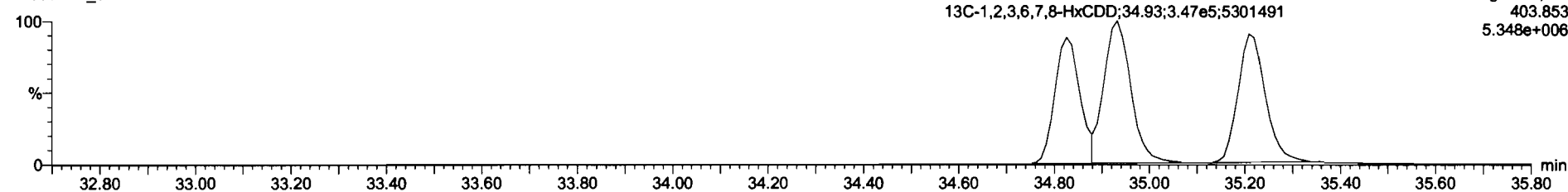


13C-1,2,3,4,7,8-HxCDD

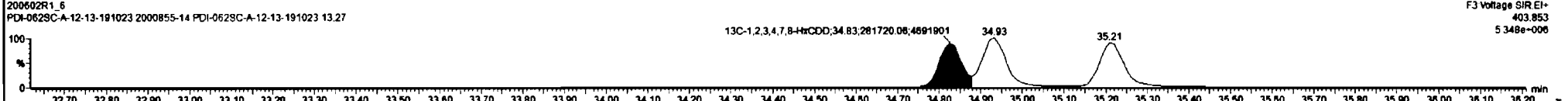
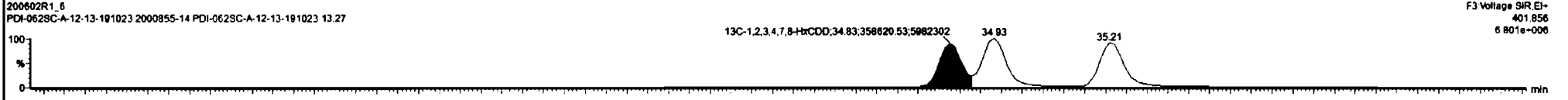
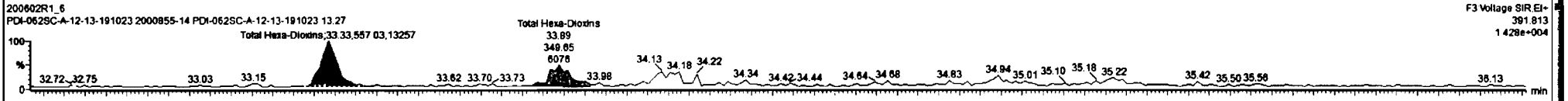
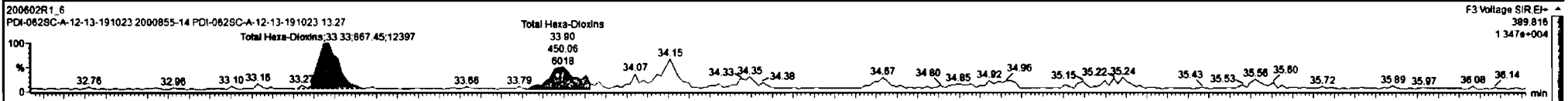
200602R1_6



200602R1_6



13C-1,2,3,4,6,8-HxCDF	8.96e5	0.51	NO	1.9090	10.035	34.35	1.000	199	100	0.520	
Total Tetra-Dioxins				0.8863	10.035			0.179		0.104	0.179
Total Penta-Dioxins				0.9061	10.035			0.0777		0.0479	0.0780
Total Hepta-Dioxins				0.8630	10.035			1.78		0.112	1.78
Total Tetra-Furans				0.7510	10.035					0.9549	
1st Func. Penta-Furans				0.8825	10.035					0.0368	
Total Penta-Furans				0.8825	10.035					0.0247	
Total Hexa-Furans				0.8341	10.035			0.000		0.0208	0.0620
Total Hepta-Furans				0.8734	10.035					0.0311	
PFK1											
PFK2											
PFK3											
PFK4											
PFK5											
DPE1											
DPE2											
DPE3											
DPE4											
DPE5											
DPE6											

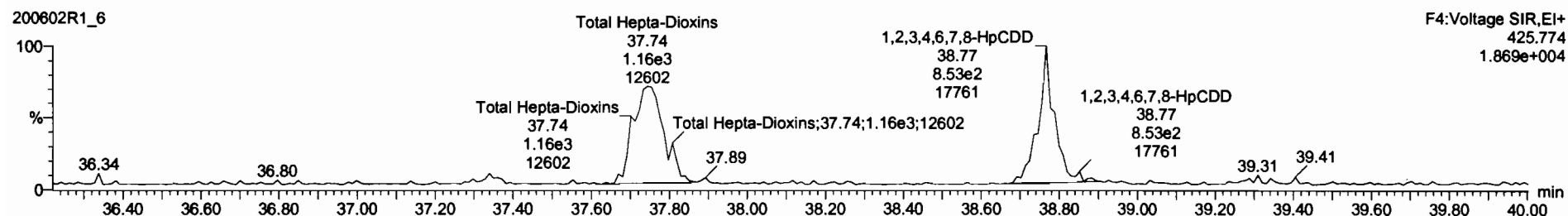
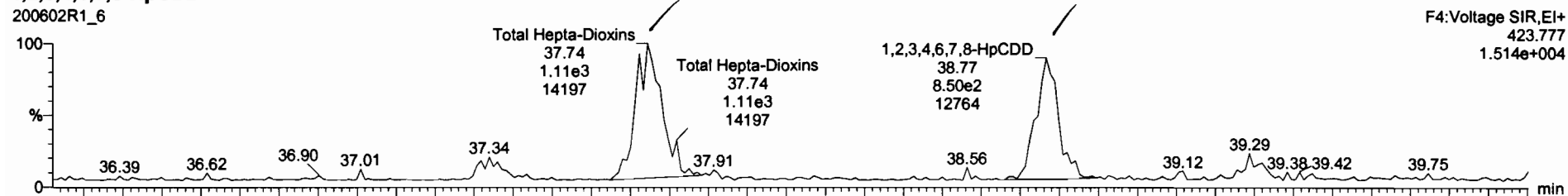


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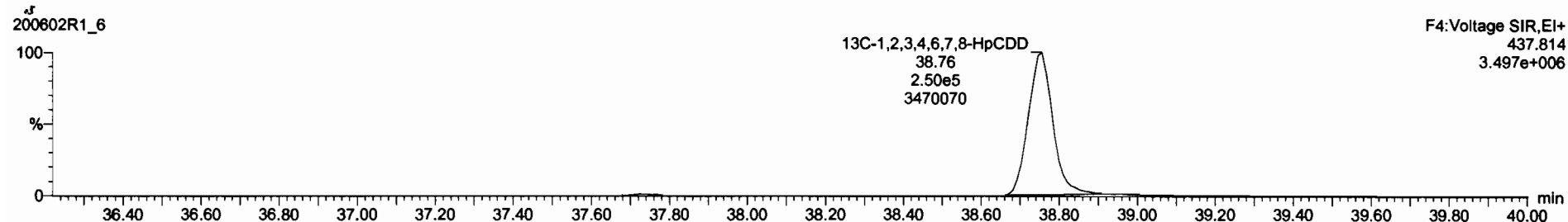
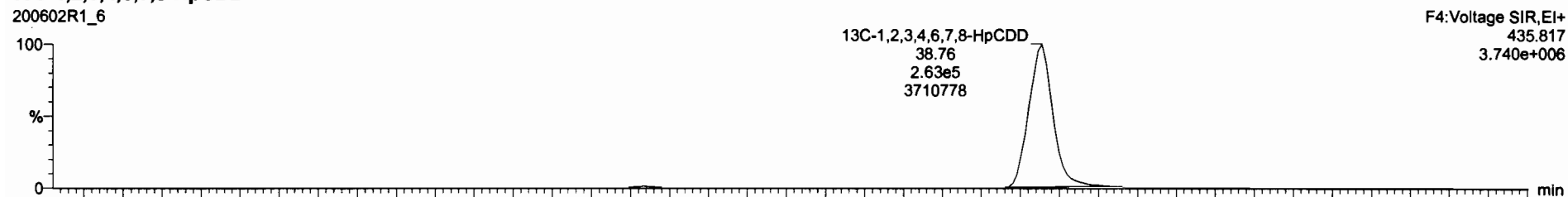
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Name: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023

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



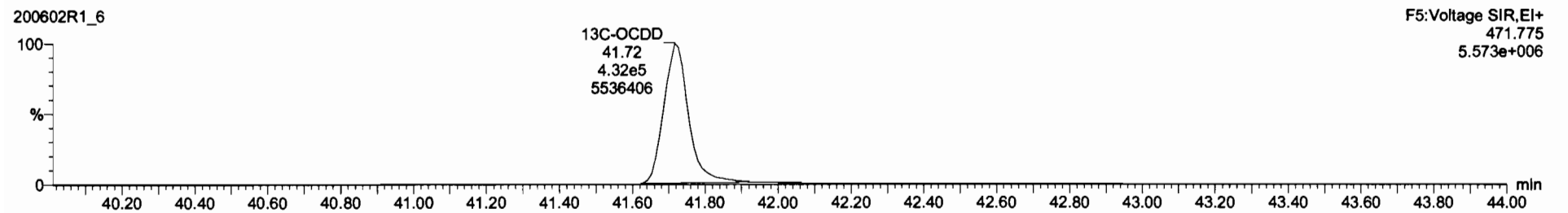
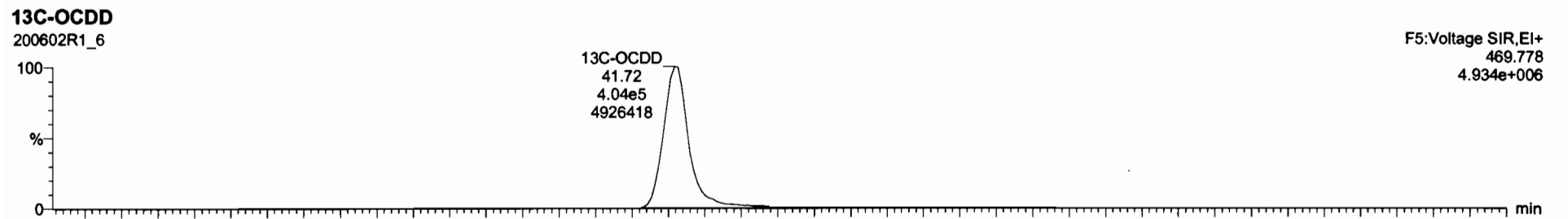
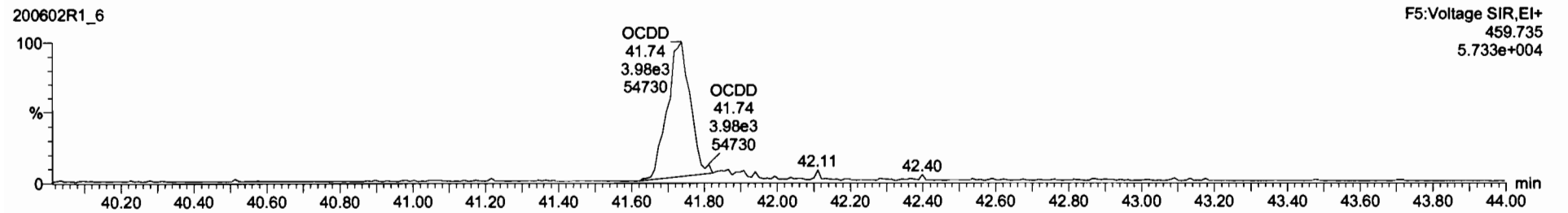
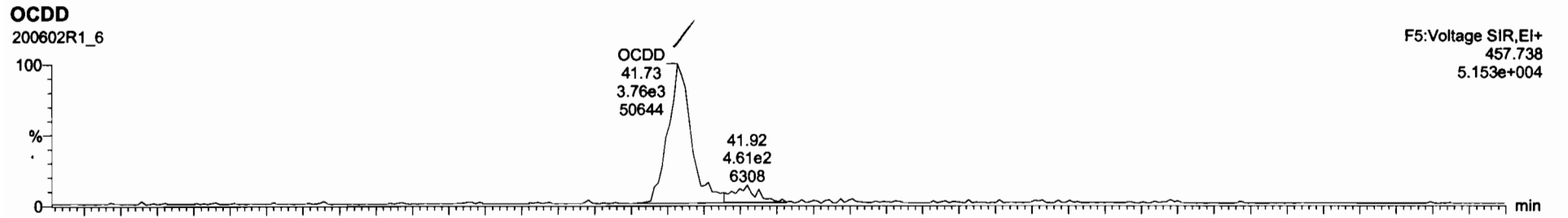
13C-1,2,3,4,6,7,8-HpCDD



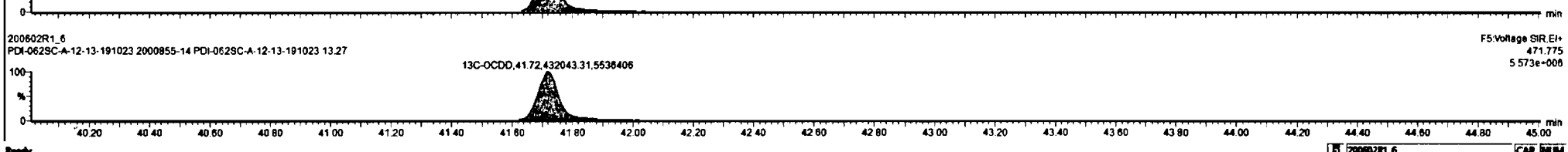
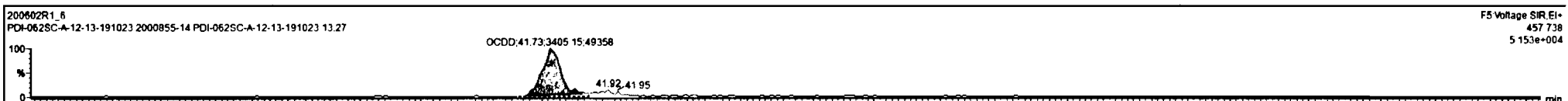
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Name: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023



2,3,7,8-TCDF			NO	0.7510	10.035					0.109
1,2,3,7,8-PeCDF			NO	0.8025	10.035					0.9534
2,3,4,7,8-PeCDF			NO	0.9348	10.035					0.9511
1,2,3,4,7,8-HxCDF			NO	0.9845	10.035					0.9420
1,2,3,6,7,8-HxCDF			NO	0.9882	10.035					0.9414
2,3,4,6,7,8-HxCDF			NO	0.9341	10.035					0.9447
1,2,3,7,8,9-HxCDF	7.89e1	0.88	YES	0.8707	10.035	35.56	1.000	0.0281		0.0299 0.0220
1,2,3,4,6,7,8-HpCDF			NO	0.8734	10.035					0.0578
1,2,3,4,7,8,9-HpCDF			NO	1.0128	10.035					0.0626
OCDF			NO	0.8085	10.035					0.0618
13C-2,3,7,8-TCDD	1.14e6	0.79	NO	1.1583	10.035	28.50	1.025	185	92.8	0.188
13C-1,2,3,7,8-PeCDD	8.47e5	0.63	NO	0.8480	10.035	31.45	1.216	186	93.5	0.178
13C-1,2,3,4,7,8-HxCDD	6.40e5	1.27	NO	0.7790	10.035	34.83	1.014	182	91.4	0.422
13C-1,2,3,6,7,8-HxCDD	7.80e5	1.27	NO	1.0167	10.035	34.83	1.017	172	86.4	0.323
13C-1,2,3,7,8,9-HxCDD	7.11e5	1.28	NO	0.9027	10.035	35.21	1.025	175	87.7	0.364
13C-1,2,3,4,6,7,8-HpCDD	5.13e5	1.06	NO	0.6892	10.035	38.76	1.126	165	82.8	0.278
13C-OCDD	8.18e5	0.80	NO	0.6521	10.035	41.72	1.215	278	69.8	0.344
13C-2,3,7,8-TCDF	1.41e6	0.77	NO	1.8590	10.035	25.61	0.991	175	87.8	0.258
13C-1,2,3,7,8-PeCDF	1.26e6	1.59	NO	0.8380	10.035	30.17	1.187	199	99.8	0.322
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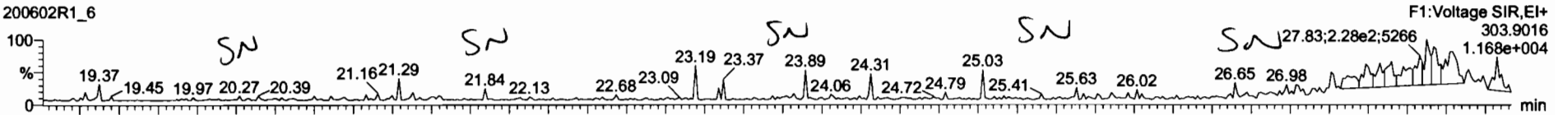
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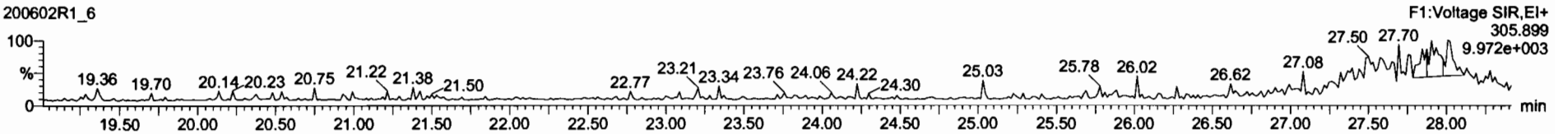
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2,3,7,8-TCDF

200602R1_6

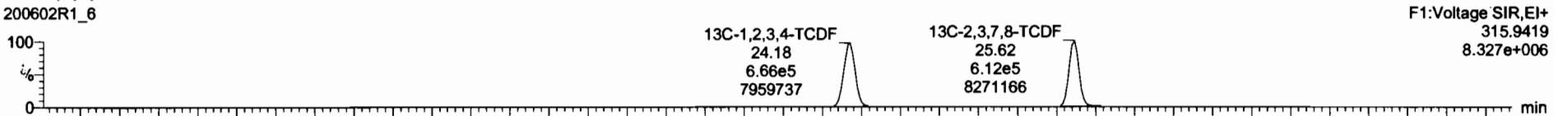


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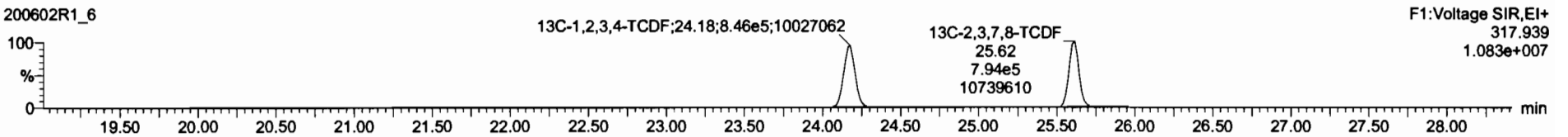


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200602R1_6

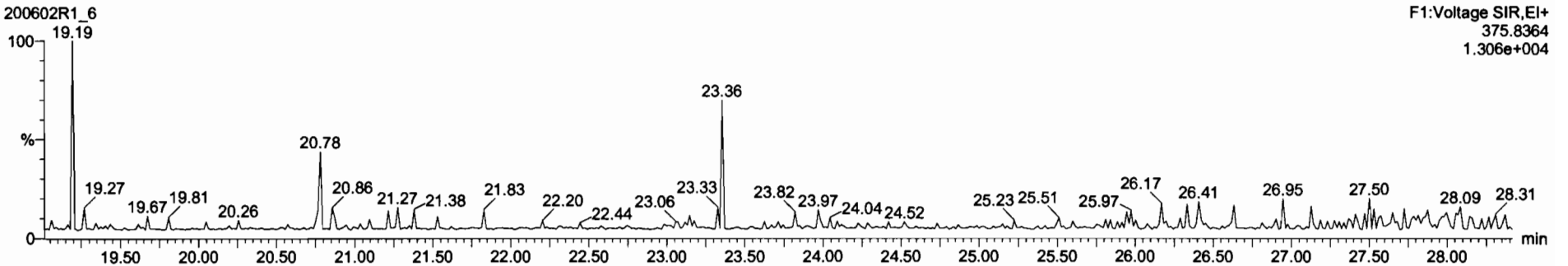


200602R1_6



DPE1

200602R1_6



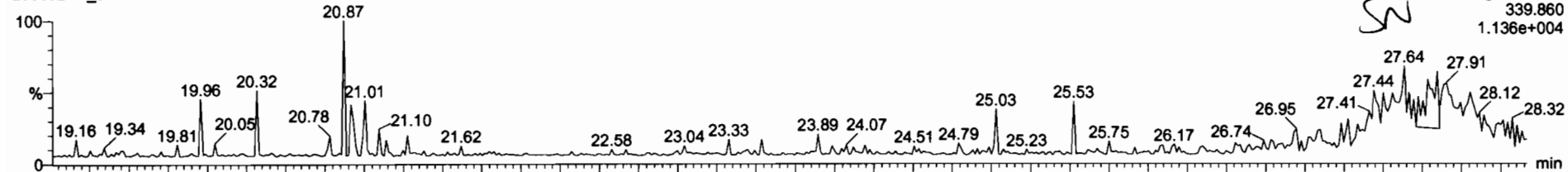
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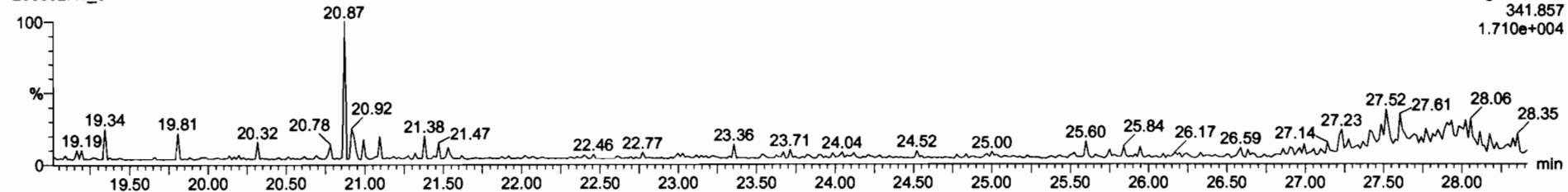
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1st Func. Penta-Furans

200602R1_6

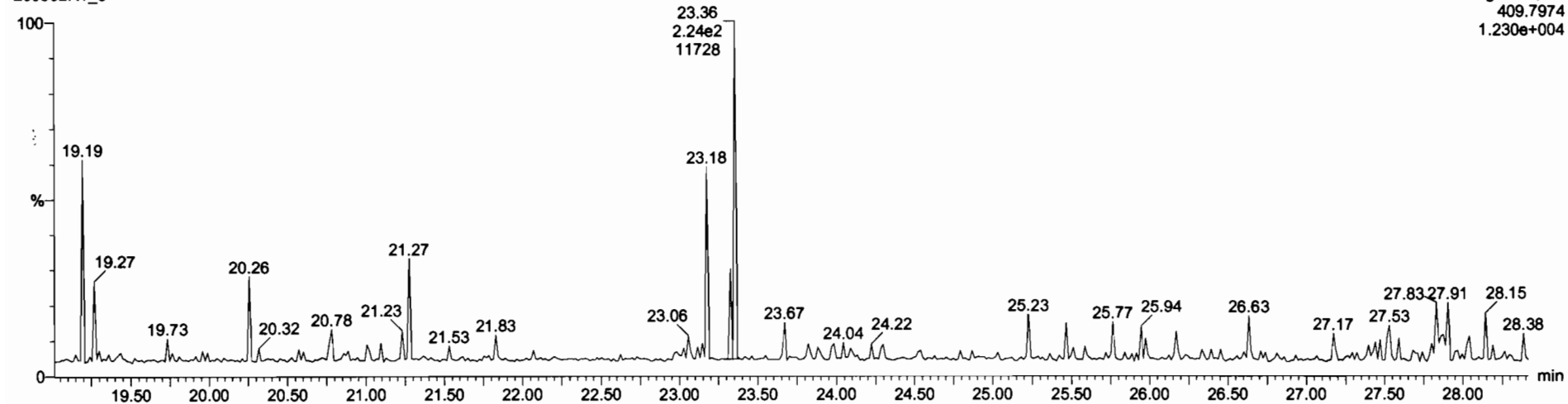


200602R1_6



DPE6

200602R1_6

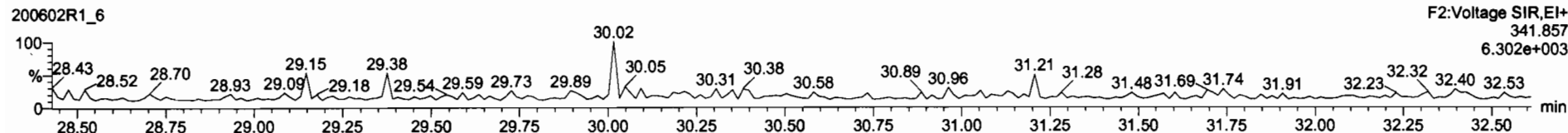
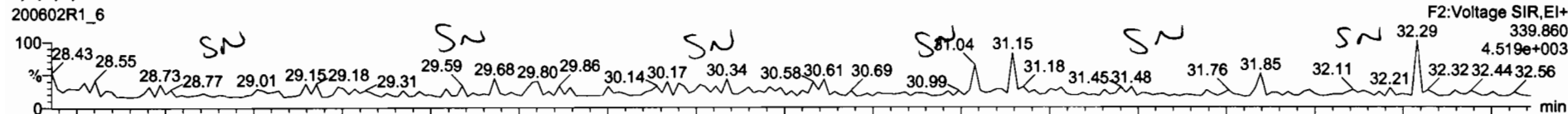


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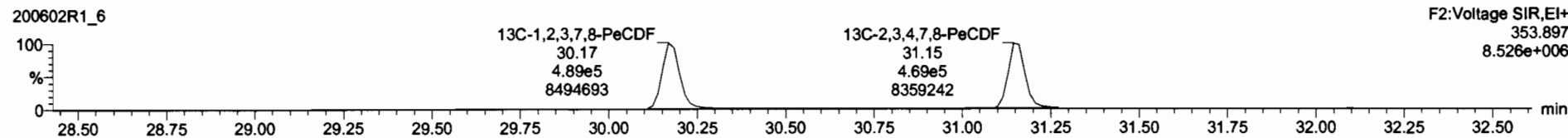
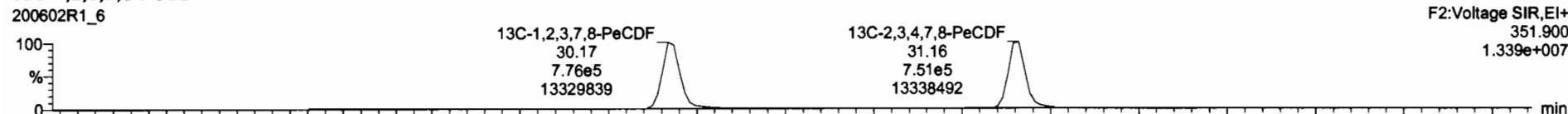
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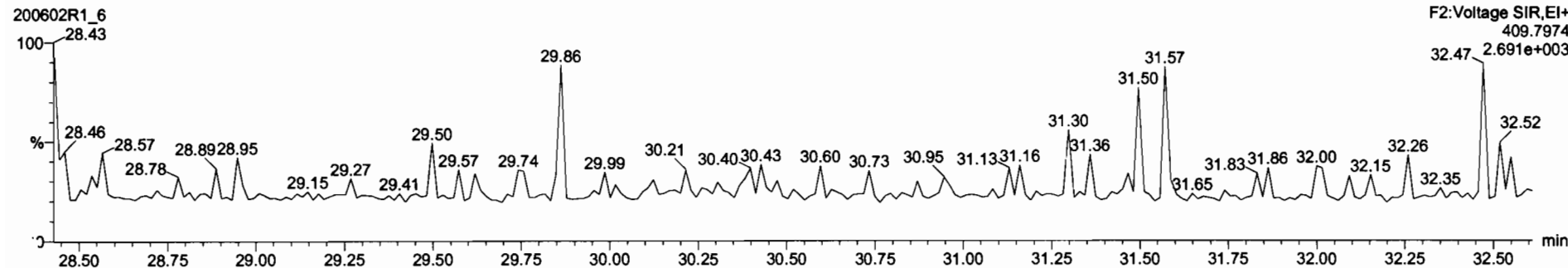
1,2,3,7,8-PeCDF



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



DPE2

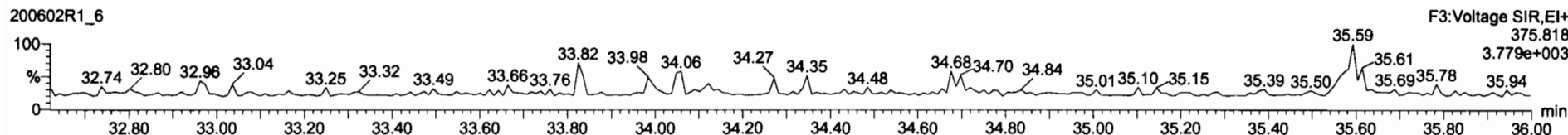
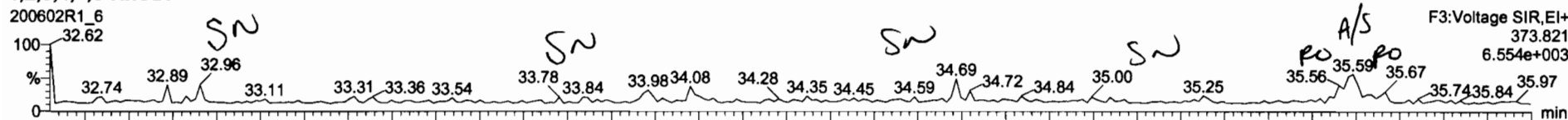


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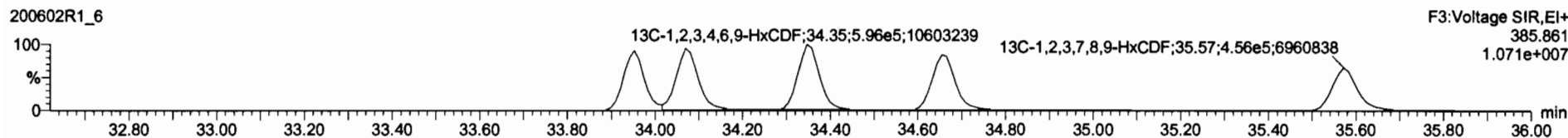
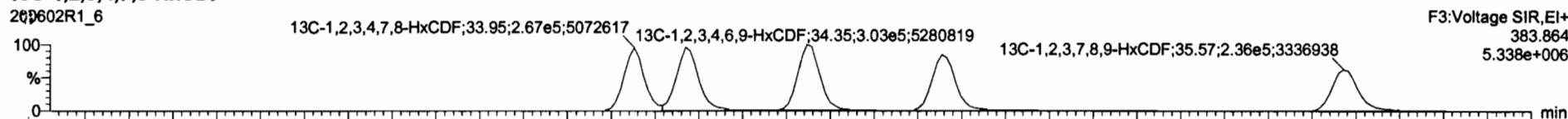
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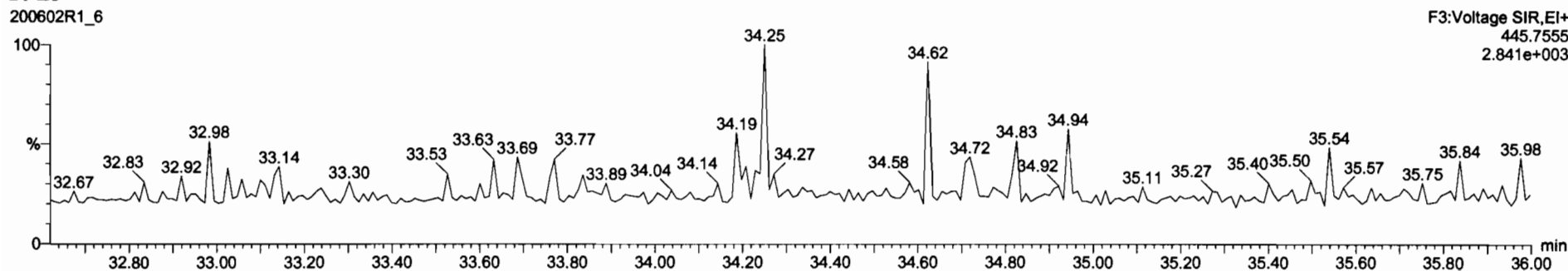
1,2,3,4,7,8-HxCDF



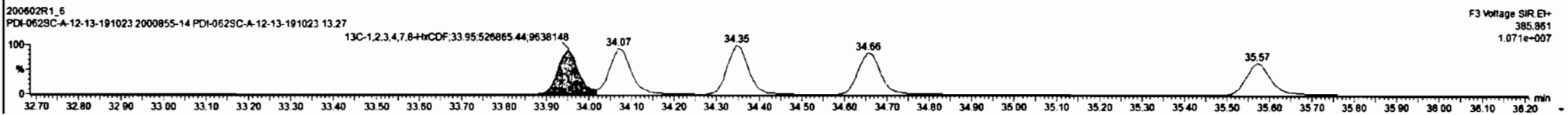
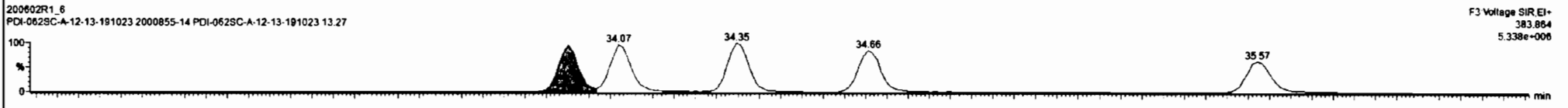
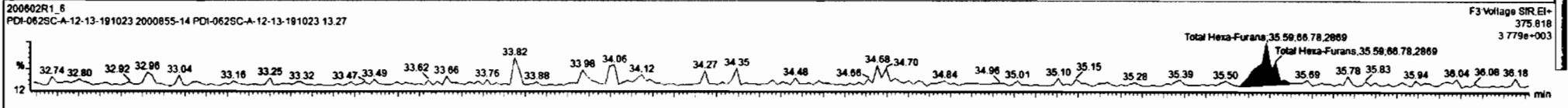
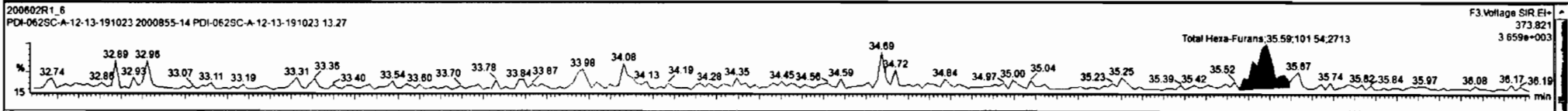
13C-1,2,3,4,7,8-HxCDF



DPE3



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Total Tetra-Dioxins	0.9983	10.035						0.179		0.104 0.179
Total Penta-Dioxins	0.9081	10.035						0.0777		0.0479 0.0780
Total Hexa-Dioxins	0.8823	10.035						0.363		0.122 0.633
Total Hepta-Dioxins	0.8630	10.035						1.78		0.112 1.78
Total Tetra-Furans	0.7510	10.035								0.0549
1st Func. Penta-Furans	0.8825	10.035								0.0368
Total Penta-Furans	0.8825	10.035								0.0247
Total Hepta-Furans	0.8734	10.035								0.0311
PFK1										
PFK2										
PFK3										
PFK4										
PFK5										
DPE1										
DPE2										
DPE3										
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DPE5										
DPE6										



Dataset: Untitled

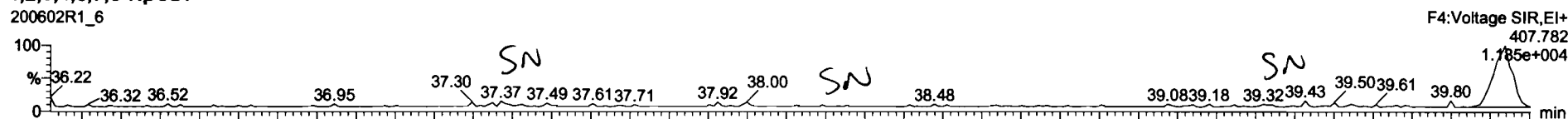
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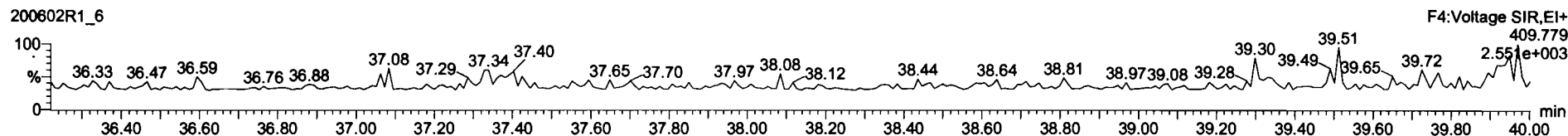
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1,2,3,4,6,7,8-HpCDF

200602R1_6

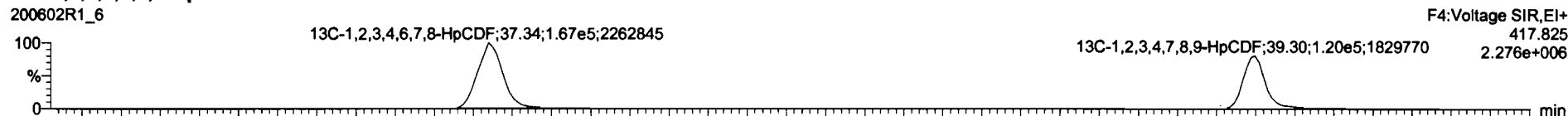


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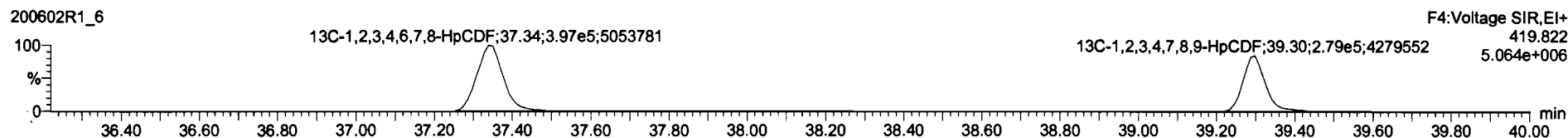


13C-1,2,3,4,6,7,8-HpCDF

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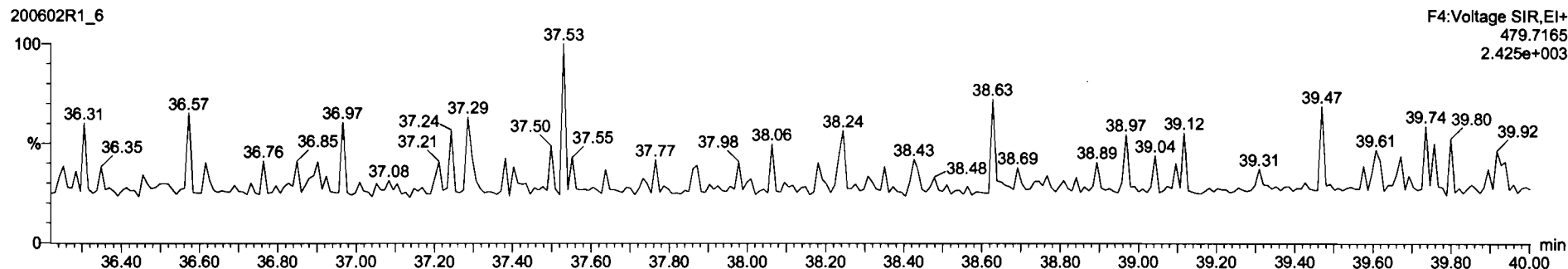


200602R1_6



DPE4

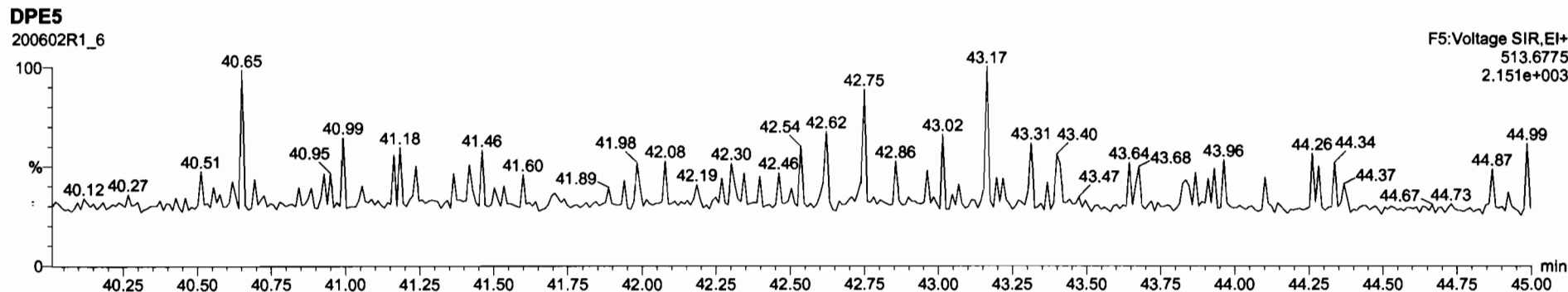
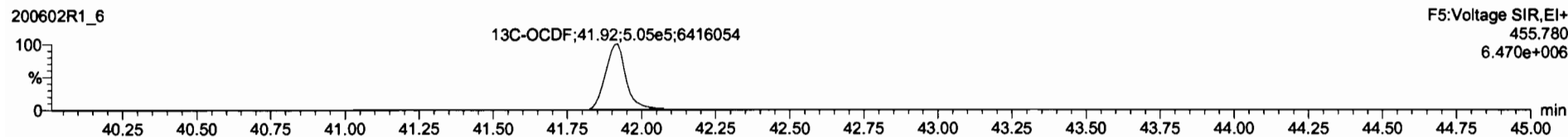
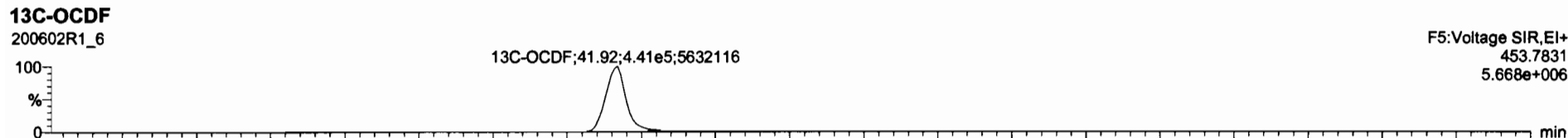
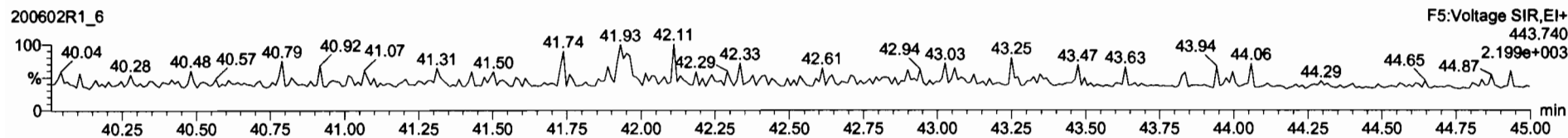
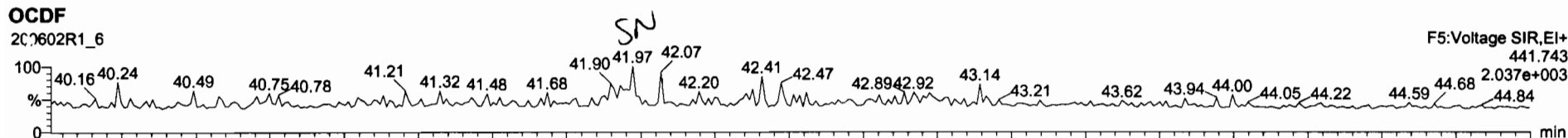
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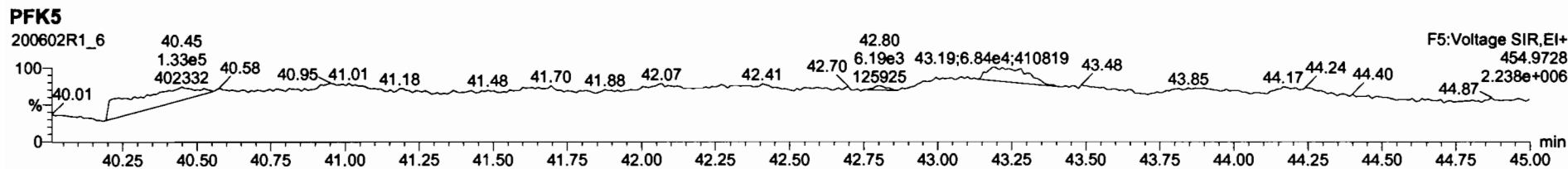
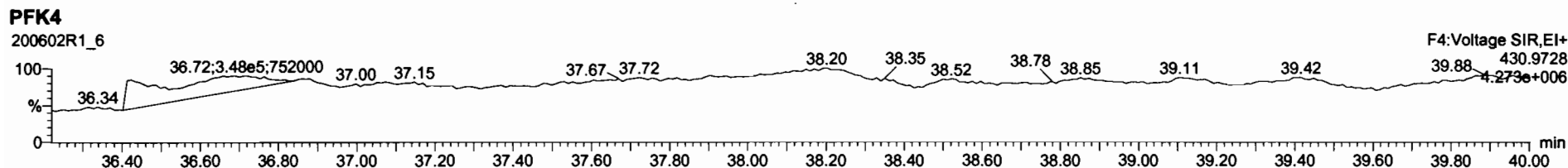
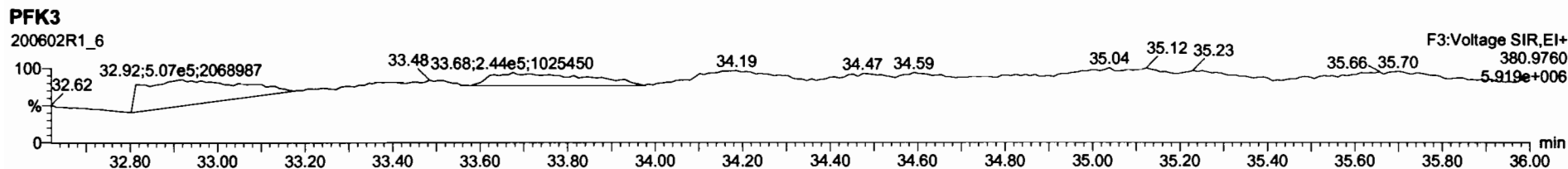
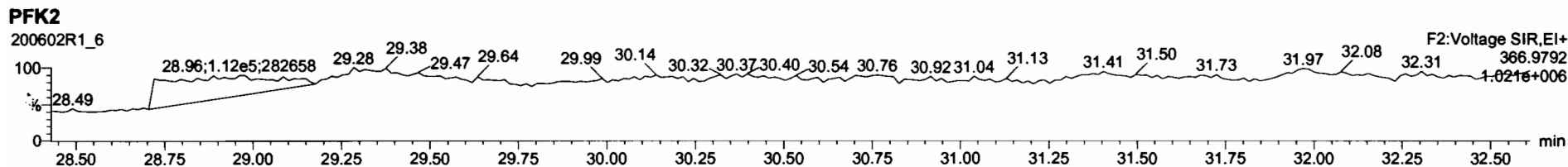
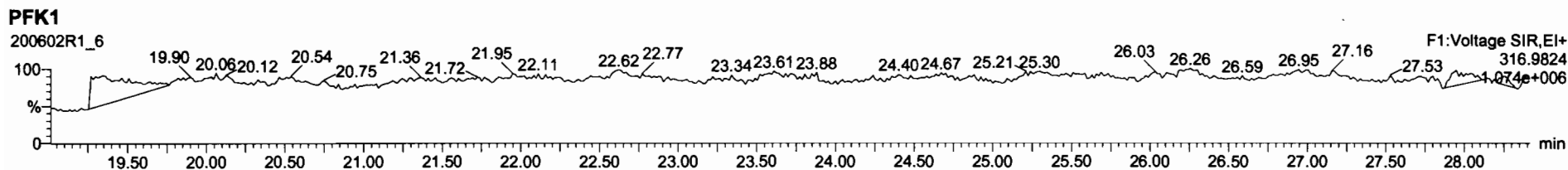
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Last Altered: Tuesday, June 02, 2020 1:13:50 PM Pacific Daylight Time
Printed: Tuesday, June 02, 2020 1:14:55 PM Pacific Daylight Time

Name: 200602R1_6, Date: 02-Jun-2020, Time: 12:27:21, ID: 2000855-14 PDI-062SC-A-12-13-191023 13.27, Description: PDI-062SC-A-12-13-191023



Dataset: U:\VG12.PRO\Results\200701R2\200701R2_15.qld

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HN 07/06/2020

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Calibration: U:\VG12.PRO\CurveDB\1613vg12-5-28-20.cdb 28 May 2020 16:52:08

*SEE DIL. *WLL 7/19/20*

Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

1	2,3,7,8-TCDD	1.53e4	0.73	NO	0.888	10.185	✓	26.486	26.48	1.001	1.001	3.2028		0.0820	3.20
2	1,2,3,7,8-PeCDD	1.20e4	0.61	NO	0.908	10.185		31.442	31.44	1.001	1.000	3.4812		0.112	3.48
3	1,2,3,4,7,8-HxCDD	9.32e3	1.11	NO	1.03	10.185		34.814	✓ 34.83	1.000	1.001	3.2597		0.226	3.26
4	1,2,3,6,7,8-HxCDD	5.39e4	1.27	NO	0.892	10.185		34.910	✓ 34.93	1.000	1.001	16.904		0.228	16.9
5	1,2,3,7,8,9-HxCDD	2.33e4	1.20	NO	0.887	10.185		35.233	✓ 35.21	1.001	1.000	8.3678		0.258	8.37
6	1,2,3,4,6,7,8-HpCDD	1.04e6	1.02	NO	0.864	10.185		38.756	38.76	1.000	1.000	546.83		0.619	547
7	OCDD	1.89e6	0.88	NO	0.914	10.185		41.727	41.75	1.000	1.000	6002.7E*		2.87	6000
8	2,3,7,8-TCDF	1.15e6	0.75	NO	0.751	10.185		25.567	25.57	✓ 1.001	1.001	233.21 (201)		0.154	233
9	1,2,3,7,8-PeCDF	1.70e6	1.51	NO	0.893	10.185		30.159	30.15	1.001	1.001	323.41		0.320	323
10	2,3,4,7,8-PeCDF	9.26e5	1.53	NO	0.935	10.185		31.146	31.13	1.001	1.000	182.51		0.331	183
11	1,2,3,4,7,8-HxCDF	2.22e6	1.19	NO	0.884	10.185		33.931	✓ 33.95	1.000	1.001	637.20		0.327	637
12	1,2,3,6,7,8-HxCDF	7.60e5	1.22	NO	0.889	10.185		34.068	✓ 34.07	1.000	1.000	198.52		0.317	199
13	2,3,4,6,7,8-HxCDF	1.28e5	1.19	NO	0.934	10.185		34.679	✓ 34.65	1.001	1.000	38.354		0.352	38.4
14	1,2,3,7,8,9-HxCDF	5.84e4	1.13	NO	0.871	10.185		35.560	✓ 35.59	1.000	1.001	21.042		0.534	21.0
15	1,2,3,4,6,7,8-HpCDF	7.25e5	1.01	NO	0.873	10.185		37.365	37.35	1.001	1.001	312.09		0.394	312
16	1,2,3,4,7,8,9-HpCDF	2.18e5	0.99	NO	1.01	10.185		39.287	39.30	1.000	1.000	117.45		0.433	117
17	OCDF	4.66e5	0.87	NO	0.806	10.185		41.929	41.93	1.000	1.000	630.99		0.696	631
18	13C-2,3,7,8-TCDD	1.05e6	0.80	NO	1.16	10.185		26.486	26.45	1.027	1.026	222.01	113	0.188	
19	13C-1,2,3,7,8-PeCDD	7.46e5	0.63	NO	0.849	10.185		31.697	31.42	1.230	1.219	214.32	109	0.251	
20	13C-1,2,3,4,7,8-HxCDD	5.43e5	1.29	NO	0.779	10.185		34.809	34.80	✓ 1.014	1.014	180.29	91.8	0.386	
21	13C-1,2,3,6,7,8-HxCDD	7.02e5	1.27	NO	1.02	10.185		34.908	34.91	✓ 1.017	1.017	178.40	90.8	0.295	
22	13C-1,2,3,7,8,9-HxCDD	6.17e5	1.27	NO	0.903	10.185		35.183	35.20	✓ 1.025	1.025	176.64	90.0	0.333	
23	13C-1,2,3,4,6,7,8-HpCDD	4.32e5	1.05	NO	0.689	10.185		38.699	38.74	1.127	1.128	161.96	82.5	0.287	
24	13C-OCDD	1.35e5	0.86	NO	0.652	10.185		41.995	41.73	1.223	1.215	53.522	13.6	0.178	
25	13C-2,3,7,8-TCDF	1.29e6	0.78	NO	1.06	10.185		25.486	25.54	✓ 0.989	0.991	190.67	97.1	0.178	
26	13C-1,2,3,7,8-PeCDF	1.16e6	1.60	NO	0.838	10.185		30.369	30.14	1.178	1.169	215.64	110	0.490	
27	13C-2,3,4,7,8-PeCDF	1.07e6	1.59	NO	0.817	10.185		31.372	31.11	1.217	1.207	203.71	104	0.503	
28	13C-1,2,3,4,7,8-HxCDF	7.74e5	0.51	NO	1.01	10.185		33.944	33.93	✓ 0.989	0.988	198.65	101	0.453	
29	13C-1,2,3,6,7,8-HxCDF	8.45e5	0.51	NO	1.17	10.185		34.060	34.06	✓ 0.992	0.992	187.19	95.3	0.391	
30	13C-2,3,4,6,7,8-HxCDF	7.01e5	0.50	NO	1.02	10.185		34.637	34.64	✓ 1.009	1.009	177.34	90.3	0.447	
31	13C-1,2,3,7,8,9-HxCDF	6.26e5	0.53	NO	0.860	10.185		35.544	35.56	✓ 1.035	1.036	188.36	95.9	0.531	

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Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

32	13C-1,2,3,4,6,7,8-HpCDF	5.22e5	0.44	NO	0.774	10.185	37.267	37.33	1.085	1.087	174.18	88.7	0.362	
33	13C-1,2,3,4,7,8,9-HpCDF	3.60e5	0.43	NO	0.521	10.185	39.303	39.29	1.145	1.144	178.57	90.9	0.538	
34	13C-OCDF	3.60e5	0.87	NO	0.746	10.185	42.184	41.93	1.229	1.221	124.71	31.8	0.210	
35	37Cl-2,3,7,8-TCDD	3.73e5			1.04	10.185	26.507	26.47	1.028	1.027	87.757	112	0.0781	
36	13C-1,2,3,4-TCDD	8.06e5	0.78	NO	1.00	10.185	25.780	25.78	1.000	1.000	196.37	100	0.217	
37	13C-1,2,3,4-TCDF	1.26e6	0.79	NO	1.00	10.185	24.070	24.12	1.000	1.000	196.37	100	0.189	
38	13C-1,2,3,4,6,9-HxCDF	7.60e5	0.52	NO	1.00	10.185	34.340	34.33	1.000	1.000	196.37	100	0.457	
39	Total Tetra-Dioxins				0.888	10.185	24.620		0.000		21.820		0.0820	23.0
40	Total Penta-Dioxins				0.908	10.185	29.960		0.000		29.629		0.112	29.6
41	Total Hexa-Dioxins				0.892	10.185	33.635		0.000		171.62		0.247	172
42	Total Hepta-Dioxins				0.864	10.185	38.800		0.000		1372.0		0.619	1370
43	Total Tetra-Furans				0.751	10.185	23.610		0.000		856.51		0.154	881
44	1st Func. Penta-Furans				0.893	10.185	27.040		0.000		75.961		0.0293	76.0
45	Total Penta-Furans				0.893	10.185	29.275		0.000		896.55		0.333	897
46	Total Hexa-Furans				0.934	10.185	33.555		0.000		1182.7		0.357	1180
47	Total Hepta-Furans				0.873	10.185	37.835		0.000		863.50		0.438	863

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Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-1-20.mdb 01 Jul 2020 12:59:26

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

Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

Tetra-Dioxins

Total Tetra-Dioxins	22.43	1.750e5	2.228e5	1.726e4	2.247e4	0.77	NO	3.973e4	8.3383	8.3383	0.0820
Total Tetra-Dioxins	22.85	4.127e4	5.737e4	4.227e3	6.094e3	0.69	NO	1.032e4	2.1663	2.1663	0.0820
Total Tetra-Dioxins	23.39	1.310e4	1.546e4	1.221e3	1.367e3	0.89	YES	0.000e0	0.00000	0.50800	0.0820
Total Tetra-Dioxins	24.28	7.863e3	1.374e4	6.550e2	9.835e2	0.67	NO	1.639e3	0.34392	0.34392	0.0820
Total Tetra-Dioxins	24.52	3.477e4	4.110e4	2.946e3	3.986e3	0.74	NO	6.932e3	1.4550	1.4550	0.0820
Total Tetra-Dioxins	24.75	4.025e4	5.523e4	3.302e3	4.328e3	0.76	NO	7.631e3	1.6016	1.6016	0.0820
Total Tetra-Dioxins	24.96	1.139e4	1.444e4	8.820e2	1.184e3	0.74	NO	2.066e3	0.43372	0.43372	0.0820
Total Tetra-Dioxins	25.39	1.355e4	1.816e4	9.976e2	1.265e3	0.79	NO	2.263e3	0.47499	0.47499	0.0820
Total Tetra-Dioxins	25.77	9.068e3	1.119e4	8.115e2	9.704e2	0.84	NO	1.782e3	0.37401	0.37401	0.0820
Total Tetra-Dioxins	25.90	5.846e3	6.222e3	3.814e2	4.246e2	0.90	YES	0.000e0	0.00000	0.15776	0.0820
Total Tetra-Dioxins	26.18	6.424e4	8.044e4	5.742e3	6.795e3	0.84	NO	1.254e4	2.6315	2.6315	0.0820
Total Tetra-Dioxins	26.30	5.832e3	7.602e3	3.746e2	3.852e2	0.97	YES	0.000e0	0.00000	0.14313	0.0820
2,3,7,8-TCDD	26.48	8.990e4	1.197e5	6.431e3	8.828e3	0.73	NO	1.526e4	3.2028	3.2028	0.0820
Total Tetra-Dioxins	26.80	2.486e4	3.430e4	1.643e3	2.158e3	0.76	NO	3.801e3	0.79777	0.79777	0.0820
Total Tetra-Dioxins	26.89	6.271e3	6.746e3	3.961e2	3.598e2	1.10	YES	0.000e0	0.00000	0.13368	0.0820
Total Tetra-Dioxins	27.43	5.843e3	8.830e3	5.066e2	5.412e2	0.94	YES	0.000e0	0.00000	0.20108	0.0820

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Penta-Dioxins

Total Penta-Dioxins	29.22	1.235e5	2.183e5	1.020e4	1.704e4	0.60	NO	2.724e4	7.8922	7.8922	0.112
Total Penta-Dioxins	29.70	4.810e4	7.190e4	2.388e3	3.908e3	0.61	NO	6.296e3	1.8239	1.8239	0.112
Total Penta-Dioxins	30.18	1.268e5	2.172e5	7.130e3	1.106e4	0.64	NO	1.819e4	5.2700	5.2700	0.112
Total Penta-Dioxins	30.37	6.132e4	1.112e5	3.519e3	6.131e3	0.57	NO	9.651e3	2.7958	2.7958	0.112
Total Penta-Dioxins	30.44	4.411e4	6.543e4	2.328e3	3.882e3	0.60	NO	6.210e3	1.7990	1.7990	0.112
Total Penta-Dioxins	30.66	5.564e4	8.210e4	5.061e3	7.208e3	0.70	NO	1.227e4	3.5544	3.5544	0.112
Total Penta-Dioxins	31.01	2.111e4	3.042e4	1.085e3	1.798e3	0.60	NO	2.883e3	0.83522	0.83522	0.112
1,2,3,7,8-PeCDD	31.44	8.796e4	1.520e5	4.574e3	7.443e3	0.61	NO	1.202e4	3.4812	3.4812	0.112
Total Penta-Dioxins	31.51	2.602e4	4.015e4	1.768e3	2.637e3	0.67	NO	4.405e3	1.2762	1.2762	0.112
Total Penta-Dioxins	31.83	2.150e4	3.598e4	1.195e3	1.918e3	0.62	NO	3.112e3	0.90161	0.90161	0.112

Hexa-Dioxins

Total Hexa-Dioxins	33.32	1.958e6	1.632e6	9.828e4	7.967e4	1.23	NO	1.780e5	63.095	63.095	0.247
Total Hexa-Dioxins	33.88	2.480e5	2.050e5	1.340e4	1.050e4	1.28	NO	2.390e4	8.4735	8.4735	0.247
Total Hexa-Dioxins	34.13	1.506e6	1.225e6	1.016e5	8.052e4	1.26	NO	1.821e5	64.562	64.562	0.247
Total Hexa-Dioxins	34.25	1.089e5	9.125e4	6.647e3	5.118e3	1.30	NO	1.176e4	4.1714	4.1714	0.247
1,2,3,4,7,8-HxCDD	34.83	1.055e5	8.181e4	4.913e3	4.408e3	1.11	NO	9.321e3	3.2597	3.2597	0.226
1,2,3,6,7,8-HxCDD	34.93	5.308e5	3.925e5	3.016e4	2.375e4	1.27	NO	5.391e4	16.904	16.904	0.228
Total Hexa-Dioxins	35.12	7.202e4	6.240e4	4.346e3	3.523e3	1.23	NO	7.869e3	2.7901	2.7901	0.247
1,2,3,7,8,9-HxCDD	35.21	2.141e5	1.647e5	1.274e4	1.058e4	1.20	NO	2.332e4	8.3678	8.3678	0.258

Hepta-Dioxins

Total Hepta-Dioxins	37.74	1.111e7	1.101e7	7.896e5	7.782e5	1.01	NO	1.568e6	825.21	825.21	0.619
1,2,3,4,6,7,8-HpCDD	38.76	8.321e6	8.186e6	5.245e5	5.144e5	1.02	NO	1.039e6	546.83	546.83	0.619

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Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

Tetra-Furans

Total Tetra-Furans	20.29	2.162e4	3.254e4	1.939e3	2.585e3	0.75	NO	4.524e3	0.91433	0.91433	0.154
Total Tetra-Furans	20.83	1.137e5	1.483e5	9.669e3	1.292e4	0.75	NO	2.259e4	4.5659	4.5659	0.154
Total Tetra-Furans	21.42	4.441e6	6.016e6	4.169e5	5.502e5	0.76	NO	9.671e5	195.44	195.44	0.154
Total Tetra-Furans	21.99	1.292e5	1.701e5	2.183e4	3.059e4	0.71	NO	5.242e4	10.594	10.594	0.154
Total Tetra-Furans	22.40	1.039e6	1.360e6	1.090e5	1.436e5	0.76	NO	2.526e5	51.047	51.047	0.154
Total Tetra-Furans	22.89	3.396e5	4.603e5	3.399e4	4.558e4	0.75	NO	7.957e4	16.081	16.081	0.154
Total Tetra-Furans	23.06	4.025e4	5.189e4	3.377e3	4.262e3	0.79	NO	7.639e3	1.5439	1.5439	0.154
Total Tetra-Furans	23.27	1.856e5	2.668e5	1.757e4	2.382e4	0.74	NO	4.139e4	8.3650	8.3650	0.154
Total Tetra-Furans	23.70	2.744e4	4.191e4	3.191e3	3.897e3	0.82	NO	7.088e3	1.4325	1.4325	0.154
Total Tetra-Furans	23.88	5.152e4	6.336e4	3.017e3	3.683e3	0.82	NO	6.700e3	1.3540	1.3540	0.154
Total Tetra-Furans	24.03	4.057e5	5.205e5	2.573e4	3.383e4	0.76	NO	5.956e4	12.038	12.038	0.154
Total Tetra-Furans	24.12	1.175e6	1.596e6	1.083e5	1.433e5	0.76	NO	2.516e5	50.843	50.843	0.154
Total Tetra-Furans	24.63	5.479e6	7.463e6	4.538e5	6.004e5	0.76	NO	1.054e6	213.05	213.05	0.154
Total Tetra-Furans	24.91	1.831e5	2.667e5	1.564e4	2.083e4	0.75	NO	3.647e4	7.3701	7.3701	0.154
Total Tetra-Furans	25.11	8.433e4	1.055e5	6.019e3	8.390e3	0.72	NO	1.441e4	2.9120	2.9120	0.154
Total Tetra-Furans	25.35	6.457e4	8.746e4	3.614e3	4.765e3	0.76	NO	8.379e3	1.6935	1.6935	0.154
Total Tetra-Furans	25.45	1.163e6	1.467e6	6.812e4	8.947e4	0.76	NO	1.576e5	31.850	31.850	0.154
2,3,7,8-TCDF	25.57	6.447e6	8.535e6	4.932e5	6.607e5	0.75	NO	1.154e6	233.21	233.21	0.154
Total Tetra-Furans	25.93	3.034e5	4.158e5	2.215e4	2.976e4	0.74	NO	5.191e4	10.491	10.491	0.154
Total Tetra-Furans	26.18	4.747e4	6.288e4	3.652e3	4.821e3	0.76	NO	8.473e3	1.7123	1.7123	0.154
Total Tetra-Furans	27.58	9.392e5	1.062e6	6.173e4	6.904e4	0.89	YES	0.000e0	0.00000	24.695	0.154

Penta-Furans function 1

1st Func. Penta-Furans	27.56	3.791e6	2.443e6	2.363e5	1.476e5	1.60	NO	3.839e5	75.961	75.961	0.0293
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Penta-Furans

Total Penta-Furans	29.02	2.522e5	1.636e5	1.556e4	1.006e4	1.55	NO	2.563e4	5.0706	5.0706	0.333
Total Penta-Furans	29.16	8.800e6	5.681e6	5.736e5	3.674e5	1.56	NO	9.410e5	186.19	186.19	0.333
Total Penta-Furans	29.53	2.921e4	1.839e4	1.760e3	1.340e3	1.31	YES	0.000e0	0.00000	0.57305	0.333
Total Penta-Furans	29.74	1.166e6	8.035e5	8.283e4	5.367e4	1.54	NO	1.365e5	27.011	27.011	0.333
Total Penta-Furans	29.97	2.381e6	1.507e6	1.238e5	7.836e4	1.58	NO	2.021e5	39.994	39.994	0.333
1,2,3,7,8-PeCDF	30.15	1.785e7	1.216e7	1.024e6	6.780e5	1.51	NO	1.702e6	323.41	323.41	0.320
Total Penta-Furans	30.41	6.566e6	4.376e6	3.755e5	2.427e5	1.55	NO	6.182e5	122.33	122.33	0.333
Total Penta-Furans	30.90	3.180e4	2.240e4	1.624e3	1.084e3	1.50	NO	2.708e3	0.53588	0.53588	0.333
Total Penta-Furans	31.02	1.251e5	8.150e4	5.694e3	3.743e3	1.52	NO	9.437e3	1.8674	1.8674	0.333
2,3,4,7,8-PeCDF	31.13	8.045e6	5.501e6	5.596e5	3.664e5	1.53	NO	9.261e5	182.51	182.51	0.331
Total Penta-Furans	31.42	2.092e4	1.293e4	1.313e3	7.066e2	1.86	YES	0.000e0	0.00000	0.35856	0.333
Total Penta-Furans	32.08	4.371e5	2.999e5	2.339e4	1.514e4	1.54	NO	3.853e4	7.6240	7.6240	0.333

Hexa-Furans

Total Hexa-Furans	32.77	1.009e6	8.413e5	4.925e4	4.059e4	1.21	NO	8.984e4	25.632	25.632	0.357
Total Hexa-Furans	32.94	4.068e6	3.299e6	1.941e5	1.623e5	1.20	NO	3.564e5	101.67	101.67	0.357
Total Hexa-Furans	33.29	6.620e4	5.424e4	3.369e3	2.825e3	1.19	NO	6.193e3	1.7670	1.7670	0.357
Total Hexa-Furans	33.48	4.129e6	3.463e6	2.052e5	1.707e5	1.20	NO	3.759e5	107.25	107.25	0.357
Total Hexa-Furans	33.85	2.066e5	1.703e5	8.759e3	7.178e3	1.22	NO	1.594e4	4.5469	4.5469	0.357
1,2,3,4,7,8-HxCDF	33.95	2.378e7	1.973e7	1.207e6	1.016e6	1.19	NO	2.222e6	637.20	637.20	0.327
1,2,3,6,7,8-HxCDF	34.07	6.328e6	5.296e6	4.174e5	3.424e5	1.22	NO	7.598e5	198.52	198.52	0.317
Total Hexa-Furans	34.35	1.084e5	7.560e4	5.708e3	4.415e3	1.29	NO	1.012e4	2.8883	2.8883	0.357
Total Hexa-Furans	34.45	2.693e4	1.785e4	1.558e3	1.069e3	1.46	YES	0.000e0	0.00000	0.68326	0.357
2,3,4,6,7,8-HxCDF	34.65	1.361e6	1.119e6	6.963e4	5.829e4	1.19	NO	1.279e5	38.354	38.354	0.352
1,2,3,7,8,9-HxCDF	35.59	1.447e6	1.222e6	3.107e4	2.738e4	1.13	NO	5.845e4	21.042	21.042	0.534
Total Hexa-Furans	35.61	1.738e6	1.479e6	8.459e4	6.908e4	1.22	NO	1.537e5	43.845	43.845	0.357

Dataset: U:\VG12.PRO\Results\200701R2\200701R2_15.qld

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Printed: Monday, July 06, 2020 12:19:52 PM Pacific Daylight Time

Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

Hepta-Furans

1,2,3,4,6,7,8-HpCDF	37.35	5.500e6	5.425e6	3.635e5	3.610e5	1.01	NO	7.245e5	312.09	312.09	0.394
Total Hepta-Furans	37.73	8.496e4	8.263e4	5.643e3	5.376e3	1.05	NO	1.102e4	5.6184	5.6184	0.438
Total Hepta-Furans	37.96	6.164e6	6.094e6	4.215e5	4.186e5	1.01	NO	8.401e5	428.34	428.34	0.438
1,2,3,4,7,8,9-HpCDF	39.30	1.920e6	1.892e6	1.087e5	1.094e5	0.99	NO	2.181e5	117.45	117.45	0.433

Dataset: U:\VG12.PRO\Results\200701R2\200701R2_15.qld

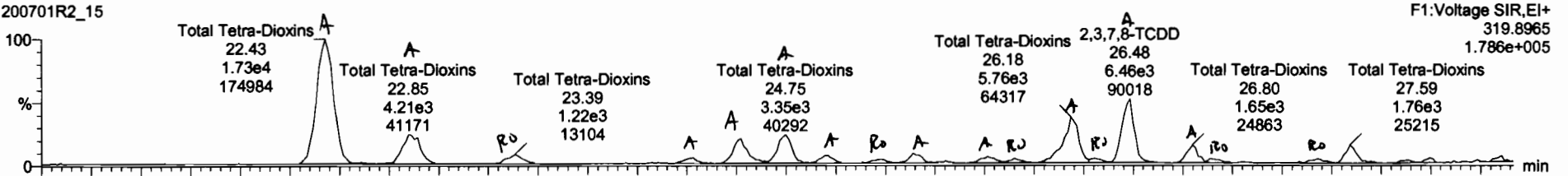
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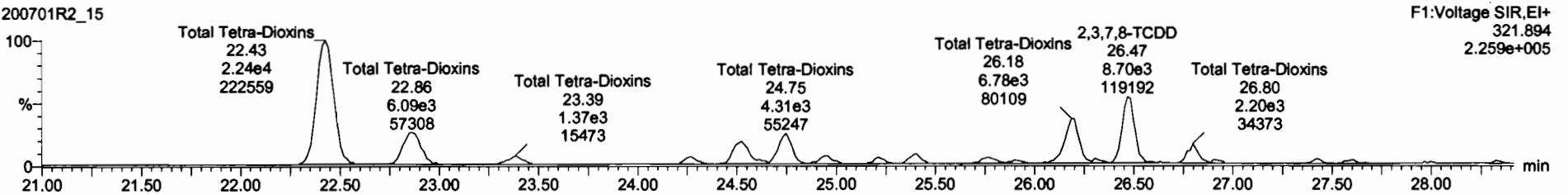
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2,3,7,8-TCDD

200701R2_15

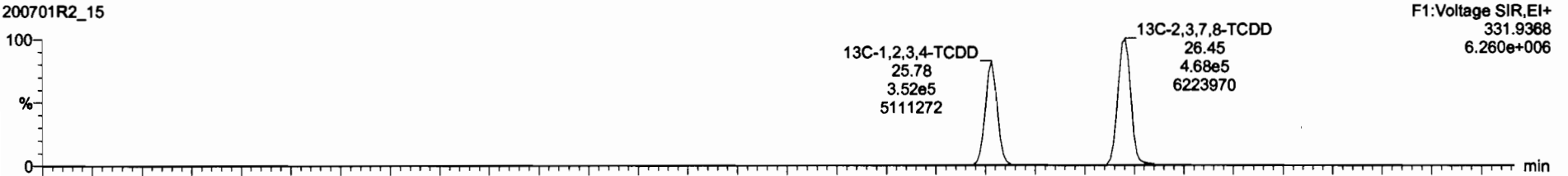


200701R2_15

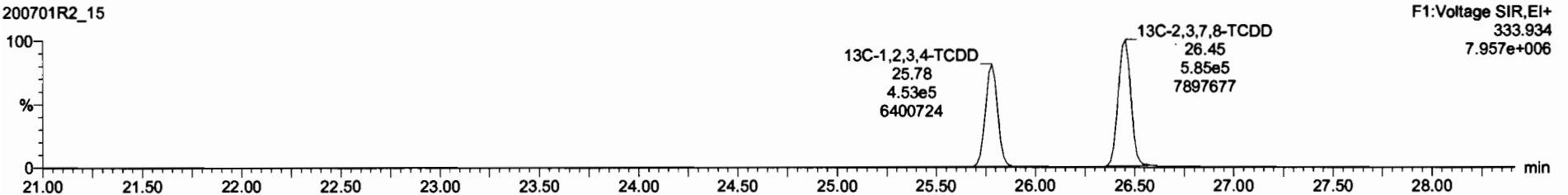


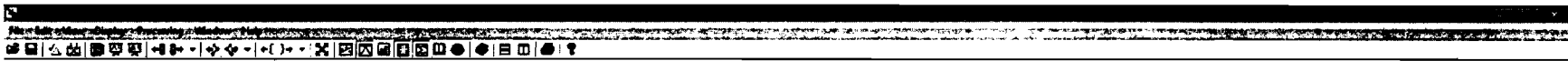
13C-2,3,7,8-TCDD

200701R2_15



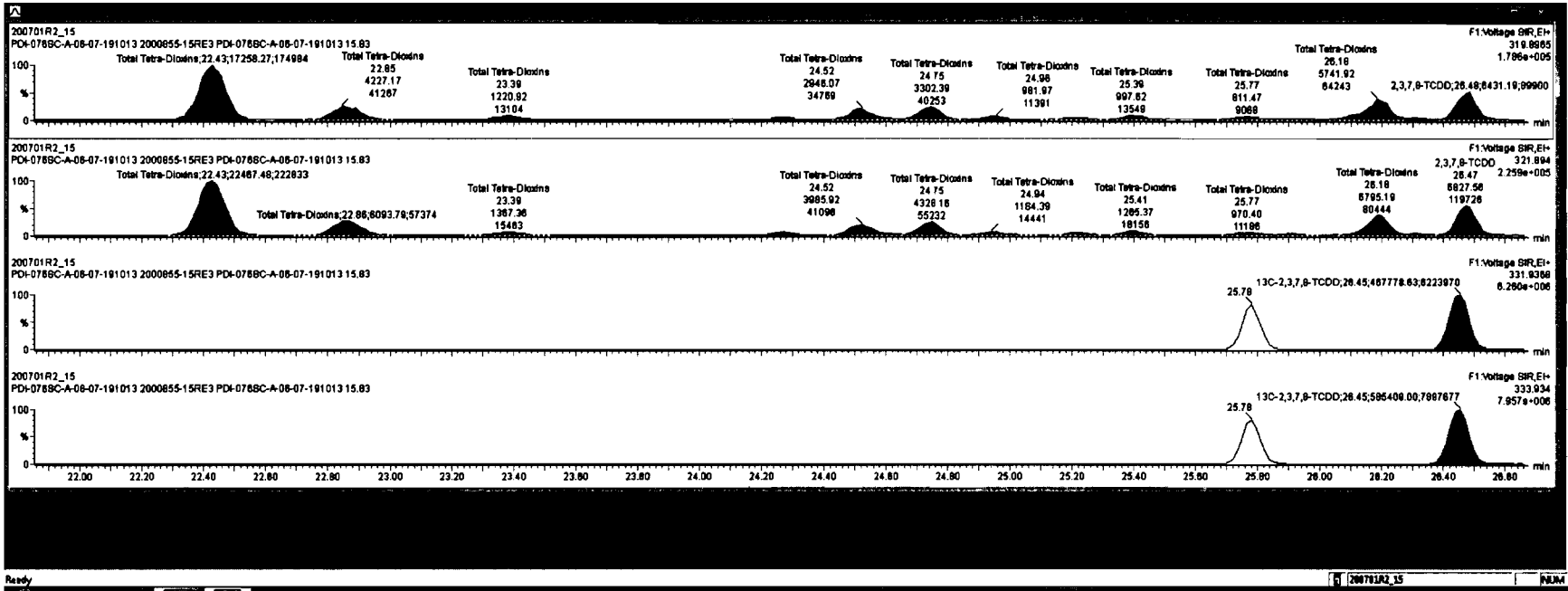
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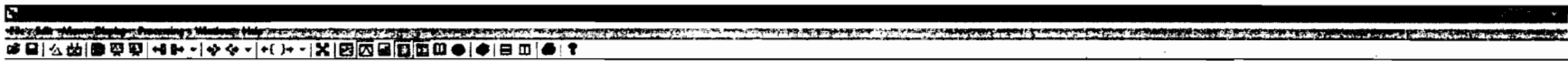




Total Penta-Dioxins				0.9091	10.185	28.88		28.8		0.112	28.8
Total Hexa-Dioxins				0.8823	10.185	33.83		171		0.247	171
Total Hepta-Dioxins				0.8830	10.185	38.80		1350		0.628	1350

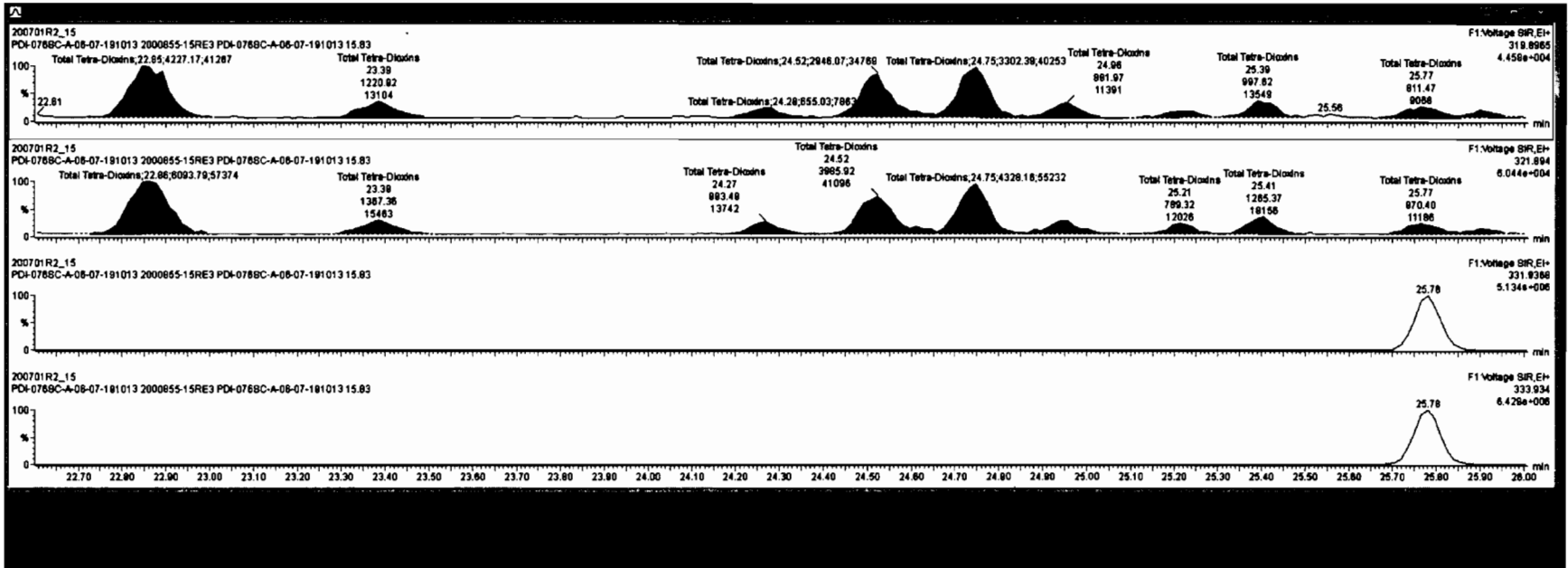
Total Tetra-Dioxins	22.43	1.728e4	2.247e4	0.77	NO	8.3353	8.3353
Total Tetra-Dioxins	22.85	4.227e3	8.084e3	0.89	NO	2.1853	2.1853
Total Tetra-Dioxins	23.39	1.221e3	1.387e3	0.89	YES	0.50390	0.00000
Total Tetra-Dioxins	24.28	8.550e2	8.835e2	0.87	NO	0.34382	0.34382
Total Tetra-Dioxins	24.52	2.848e3	3.985e3	0.74	NO	1.4550	1.4550





Total Penta-Dioxins			0.8001	10.185	28.98		28.8	0.112	28.8
Total Hexa-Dioxins			0.8623	10.185	33.63		171	0.247	171
Total Hepta-Dioxins			0.8636	10.185	38.90		1350	0.629	1350

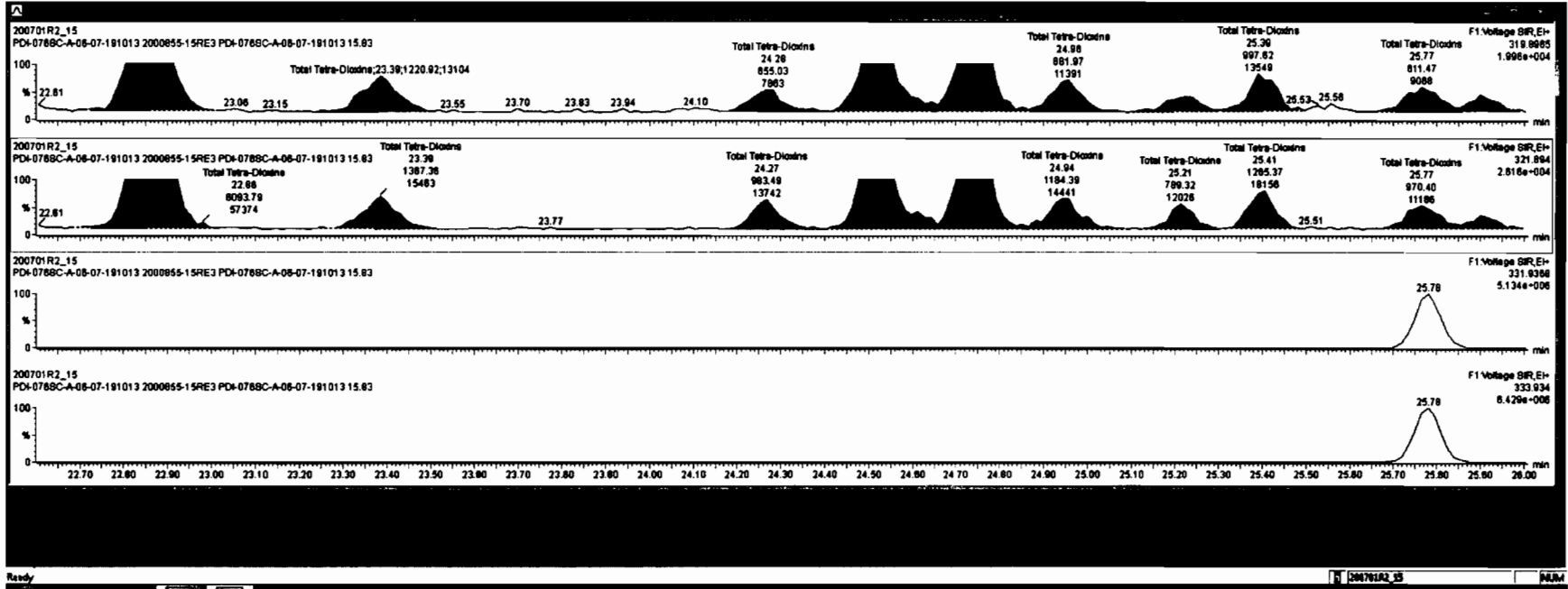
Total Tetra-Dioxins	22.43	1.726e4	2.247e4	0.77	NO	8.3393	8.3393
Total Tetra-Dioxins	23.85	4.227e3	8.594e3	0.89	NO	2.1893	2.1893
Total Tetra-Dioxins	23.39	1.221e3	1.387e3	0.89	YES	0.60700	0.00000
Total Tetra-Dioxins	24.28	8.550e2	9.835e2	0.87	NO	0.34362	0.34362
Total Tetra-Dioxins	24.52	2.846e2	3.898e2	0.74	NO	1.4560	1.4560

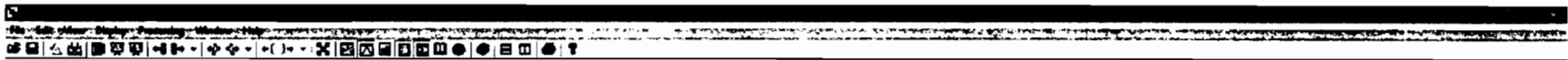


Ready [D0789R2_15] RUN

Total Pentra-Chlorine			0.8081	10.186	28.80			29.8	0.112	29.8
Total Hexa-Chlorine			0.8623	10.186	33.63			171	0.247	171
Total Hepta-Chlorine			0.8639	10.186	38.80			1360	0.628	1360

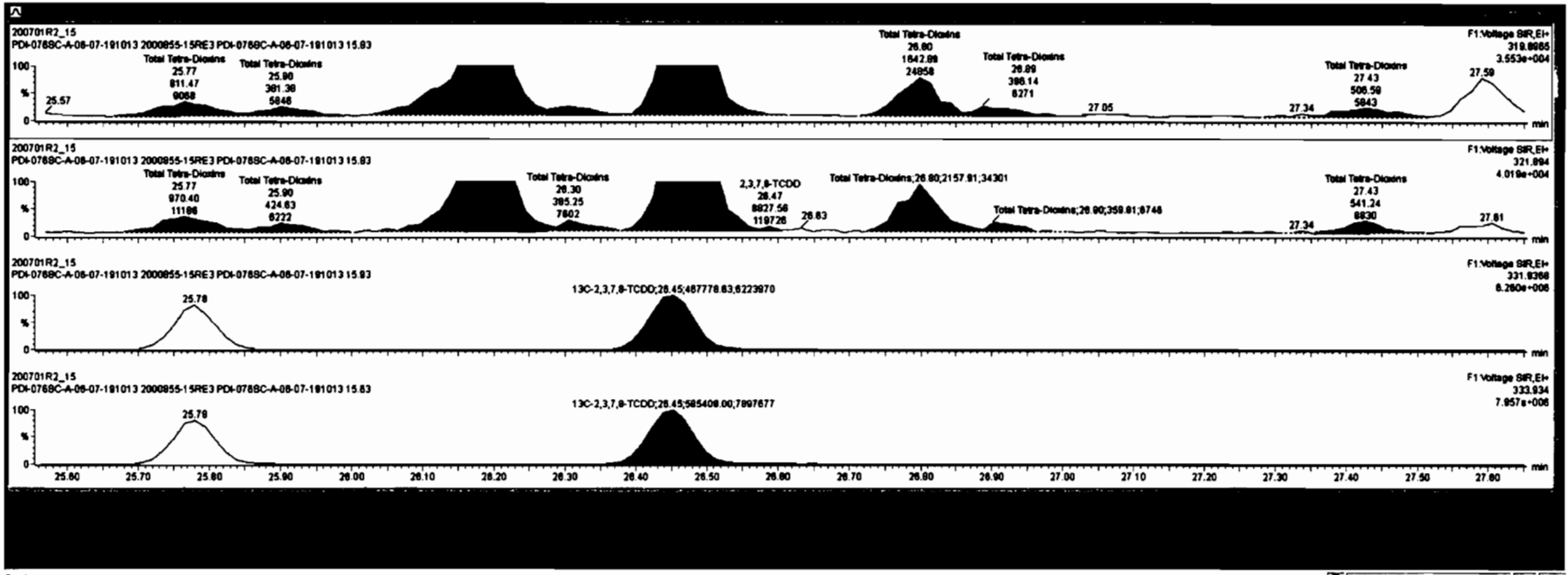
Total Tetra-Chlorine	22.43	1.728e4	2.247e4	0.77	NO	8.3383	8.3383
Total Tetra-Chlorine	22.85	4.227e3	6.894e3	0.89	NO	2.1893	2.1893
Total Tetra-Chlorine	23.39	1.221e3	1.367e3	0.89	YES	0.82000	0.82000
Total Tetra-Chlorine	24.28	8.650e2	8.836e2	0.87	NO	0.34382	0.34382
Total Tetra-Chlorine	24.52	2.949e3	3.988e3	0.74	NO	1.4950	1.4550





Total Penta-Dioxine			0.8091	10.185	28.80		28.8	0.112	28.8
Total Hexa-Dioxine			0.8823	10.185	33.83		171	0.247	171
Total Hepta-Dioxine			0.8538	10.185	38.80		1360	0.828	1360

Total Tetra-Dioxine	22.43	1.728e4	2.267e4	0.77	NO	8.3383	8.3383
Total Tetra-Dioxine	22.86	4.227e3	8.084e3	0.88	NO	2.1883	2.1883
Total Tetra-Dioxine	23.38	1.221e3	1.387e3	0.88	YES	0.82890	0.02000
Total Tetra-Dioxine	24.28	8.660e2	8.836e2	0.87	NO	0.34382	0.34382
Total Tetra-Dioxine	24.52	2.848e3	3.888e3	0.74	NO	1.4850	1.4550

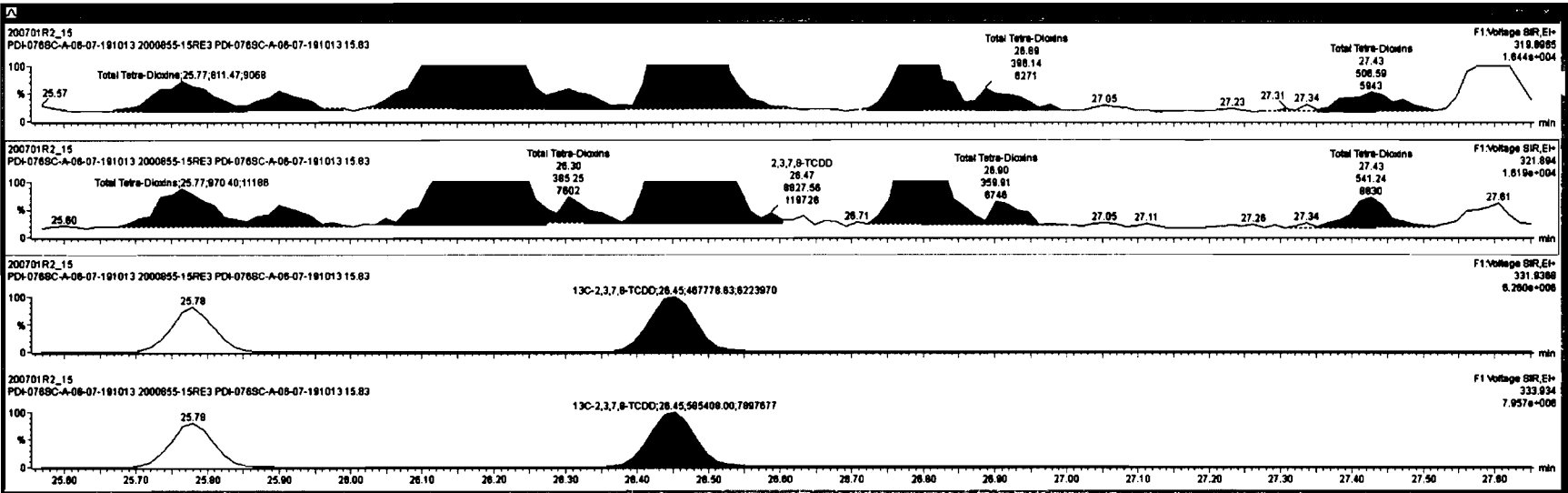


Ready [000701R2_15] NUM



Total Penta-Chlorine				0.8081	10.185	29.90			29.0	0.112	29.8
Total Hexa-Chlorine				0.8823	10.185	33.83			171	0.247	171
Total Hepta-Chlorine				0.8830	10.185	38.80			1360	0.826	1360

Total Tetra-Chlorine	22.43	1.726e4	2.247e4	0.77	NO	8.3383	8.3383
Total Tetra-Chlorine	22.85	4.227e3	8.984e3	0.89	NO	2.1883	2.1883
Total Tetra-Chlorine	23.30	1.221e3	1.387e3	0.89	YES	0.50800	0.00000
Total Tetra-Chlorine	24.28	8.550e2	8.835e2	0.87	NO	0.34382	0.34382
Total Tetra-Chlorine	24.52	2.948e3	3.889e3	0.74	NO	1.4550	1.4550



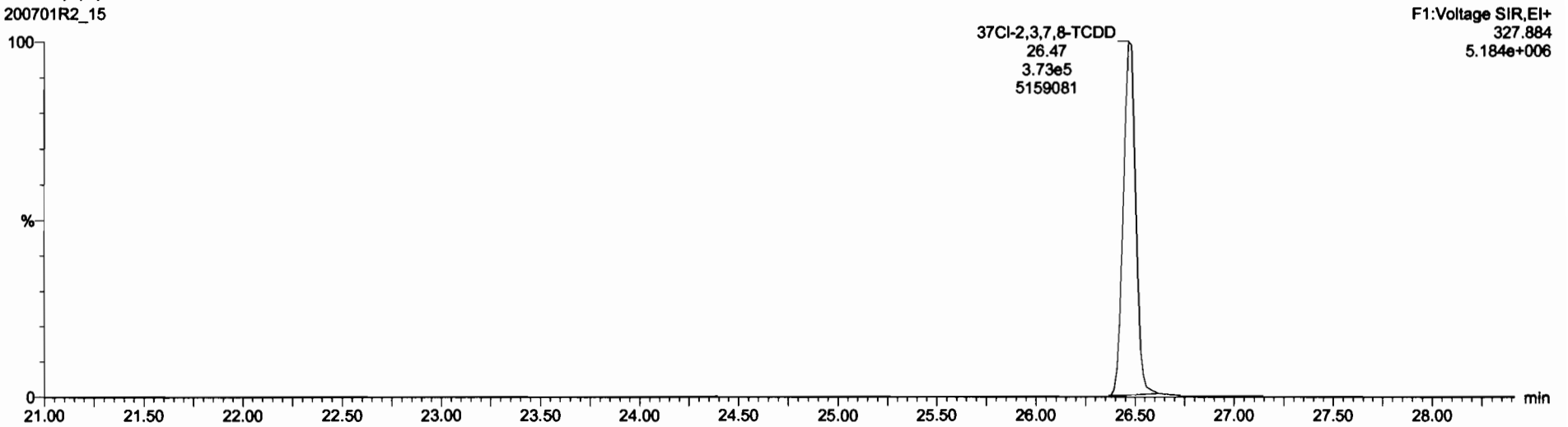
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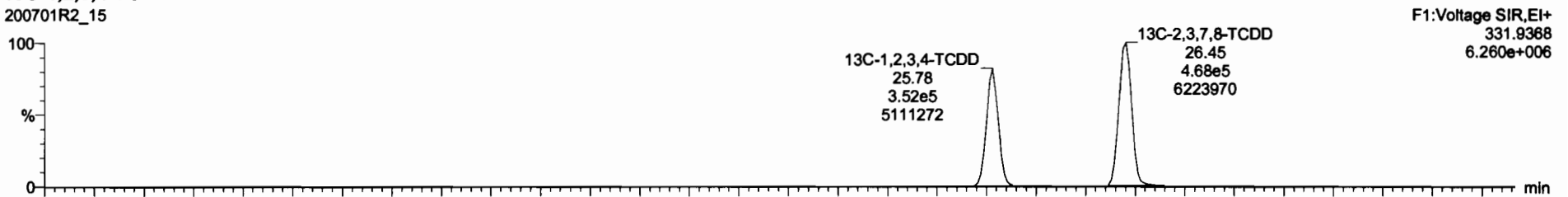
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37Cl-2,3,7,8-TCDD
200701R2_15



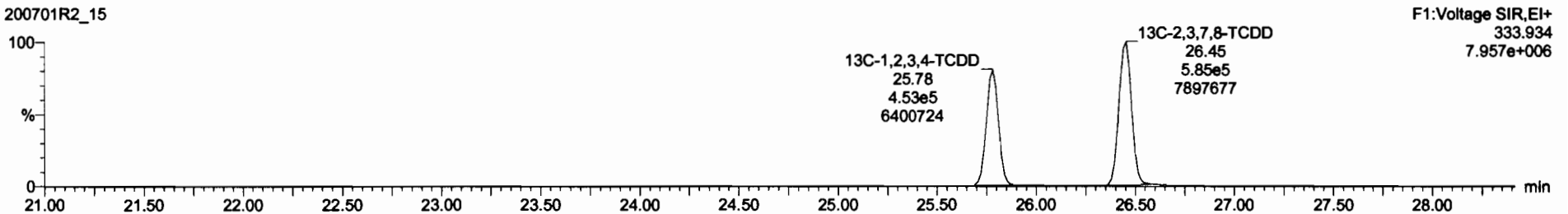
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5.184e+006

13C-1,2,3,4-TCDD
200701R2_15



F1:Voltage SIR,EI+
331.9368
6.260e+006

200701R2_15



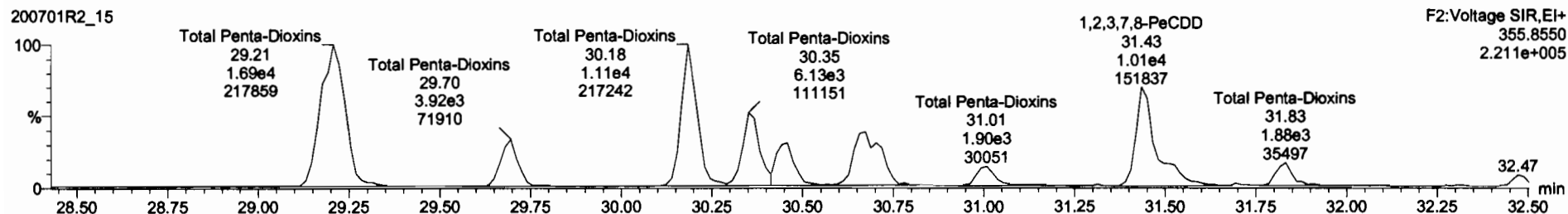
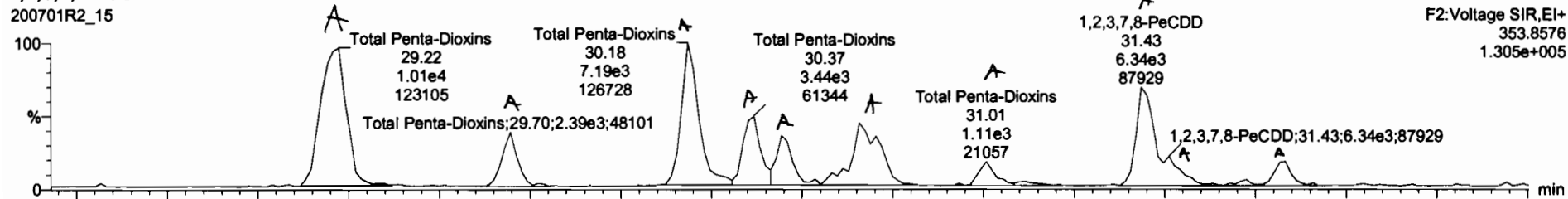
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333.934
7.957e+006

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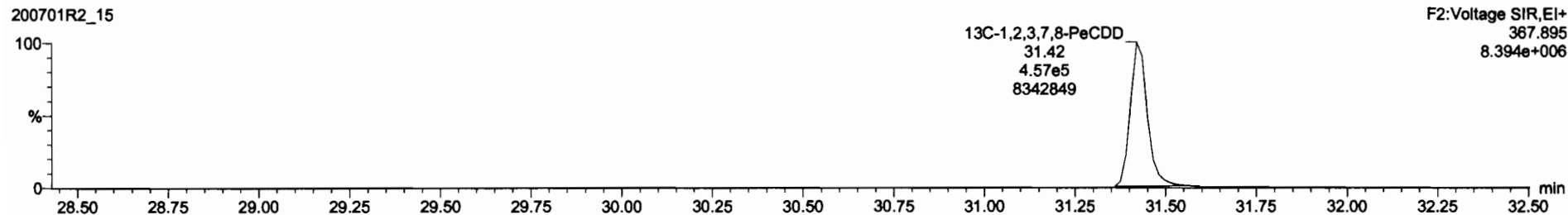
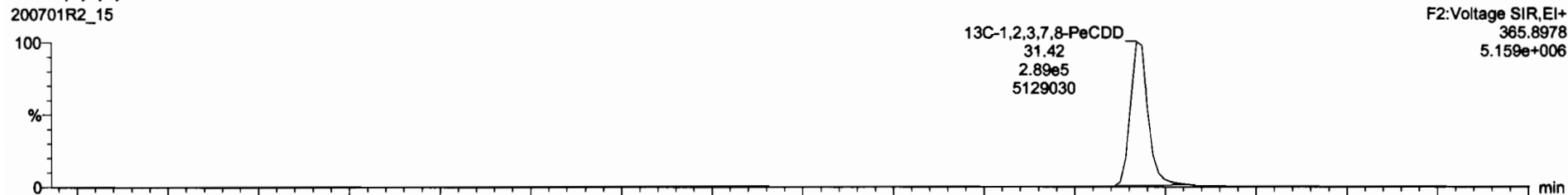
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Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

1,2,3,7,8-PeCDD

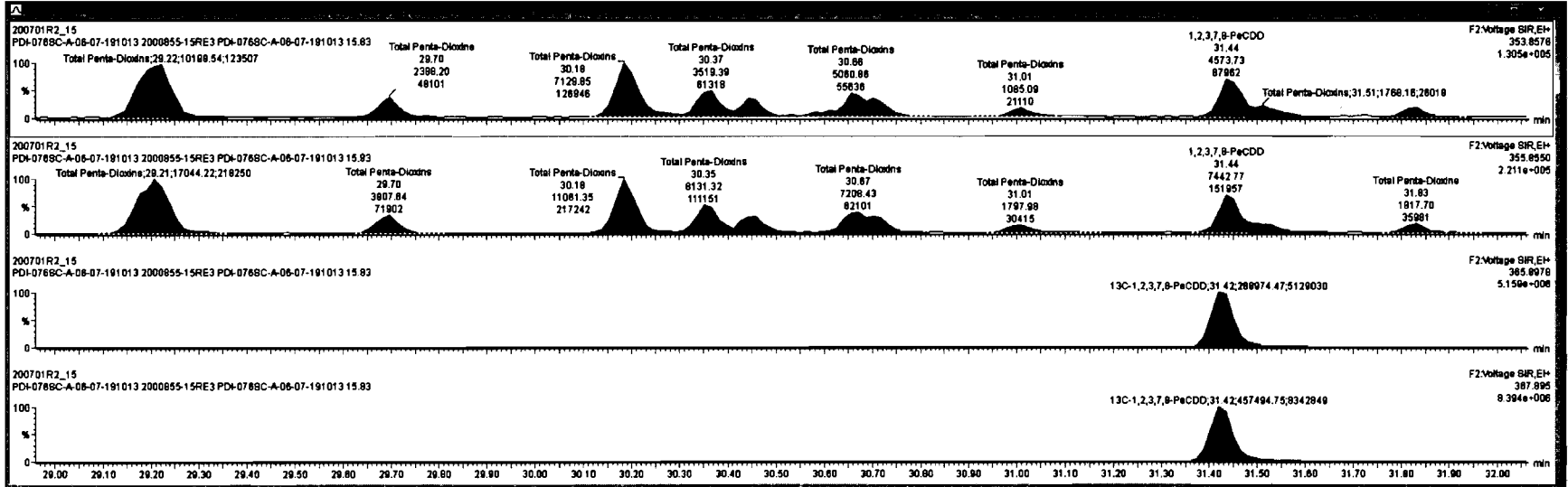


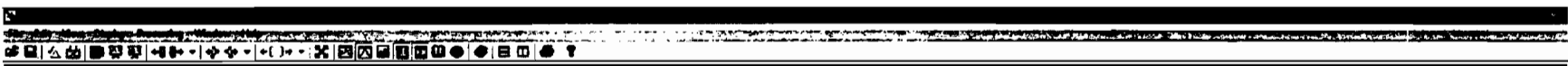
13C-1,2,3,7,8-PeCDD



Total Tetra-Dioxins			0.8963	10.185	24.82		21.8	0.0620	23.2
Total Hexa-Dioxins			0.8623	10.185	33.63		171	0.247	171
Total Hepta-Dioxins			0.8536	10.186	38.90		1350	0.628	1350

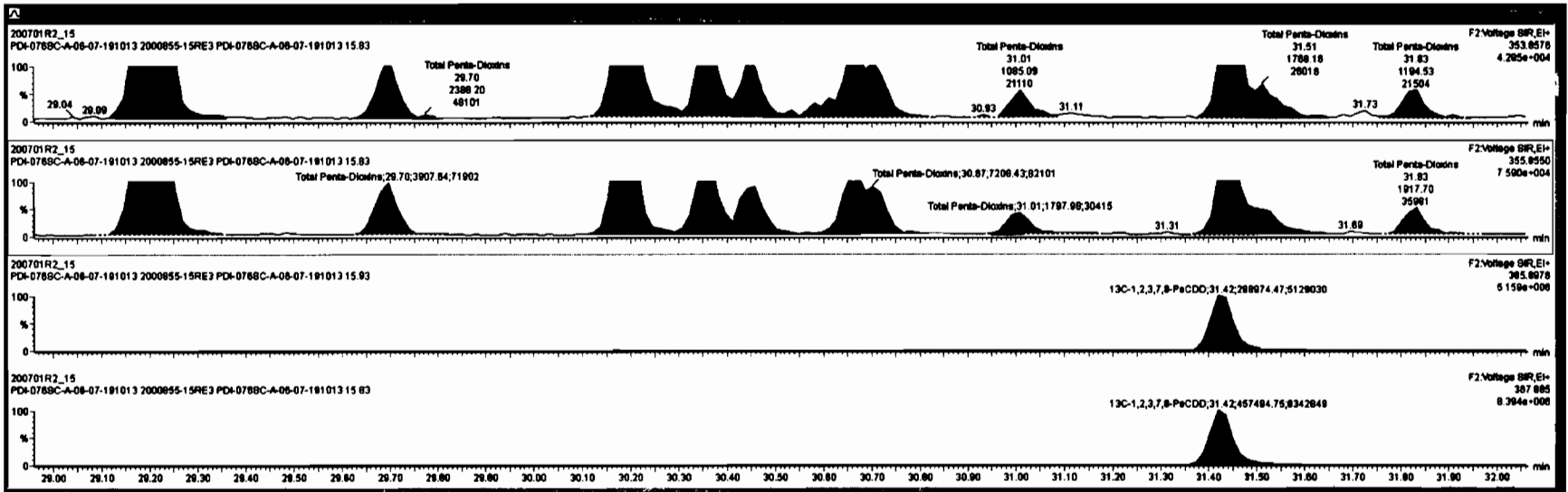
Total Penta-Dioxins	29.22	1.029e4	1.704e4	0.83	NO	7.8622	7.8622
Total Penta-Dioxins	29.70	2.289e3	3.809e3	0.81	NO	1.8226	1.8226
Total Penta-Dioxins	30.18	7.130e3	1.108e4	0.84	NO	5.2700	5.2700
Total Penta-Dioxins	30.37	3.519e3	6.131e3	0.57	NO	2.7958	2.7958





Total Tetra-Dioxins			0.8803	10.185	24.82		21.8		0.0620	22.2
Total Hexa-Dioxins			0.8823	10.185	33.83		171		0.247	171
Total Hepta-Dioxins			0.8830	10.185	38.80		1360		0.826	1360

Total Penta-Dioxins	28.22	1.020e4	1.704e4	0.80	NO	7.8822	7.8822
Total Penta-Dioxins	28.70	2.388e3	3.808e3	0.81	NO	1.8238	1.8238
Total Penta-Dioxins	30.18	7.130e3	1.108e4	0.84	NO	5.2700	5.2700
Total Penta-Dioxins	30.37	3.519e3	6.131e3	0.87	NO	2.7888	2.7888



Ready

200701R2_15

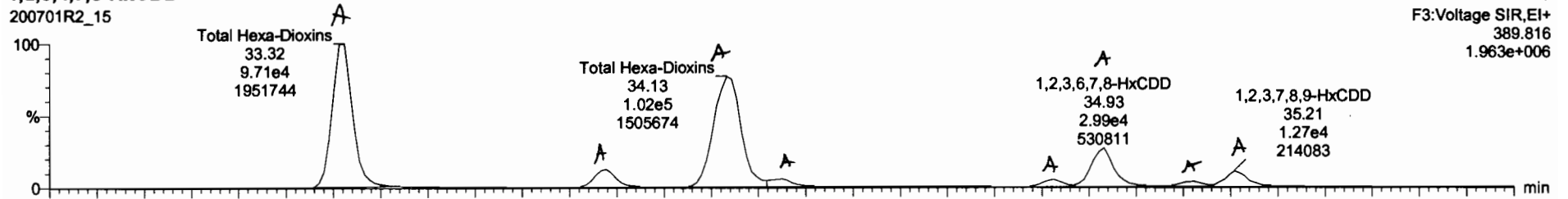
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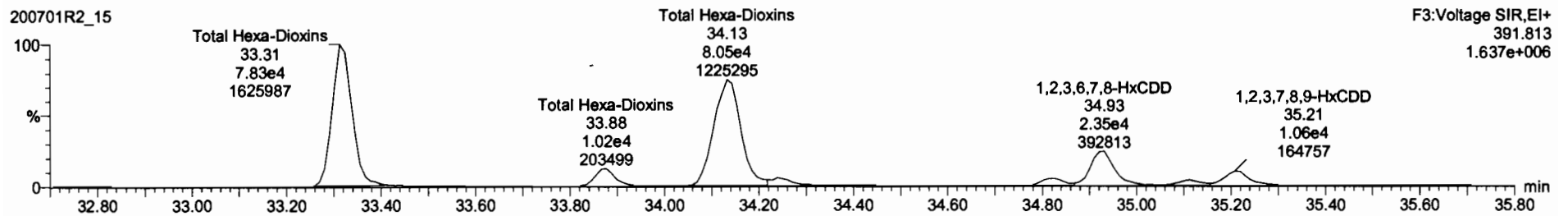
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1,2,3,4,7,8-HxCDD

200701R2_15

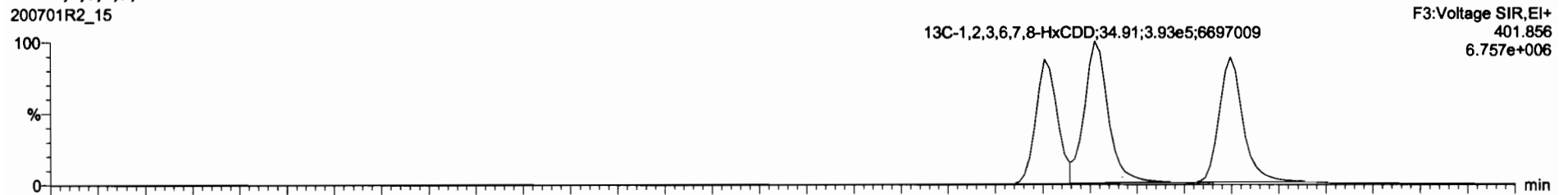


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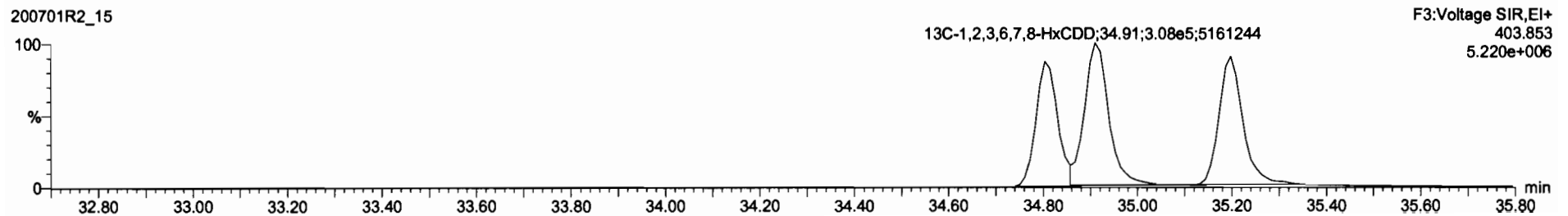


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200701R2_15

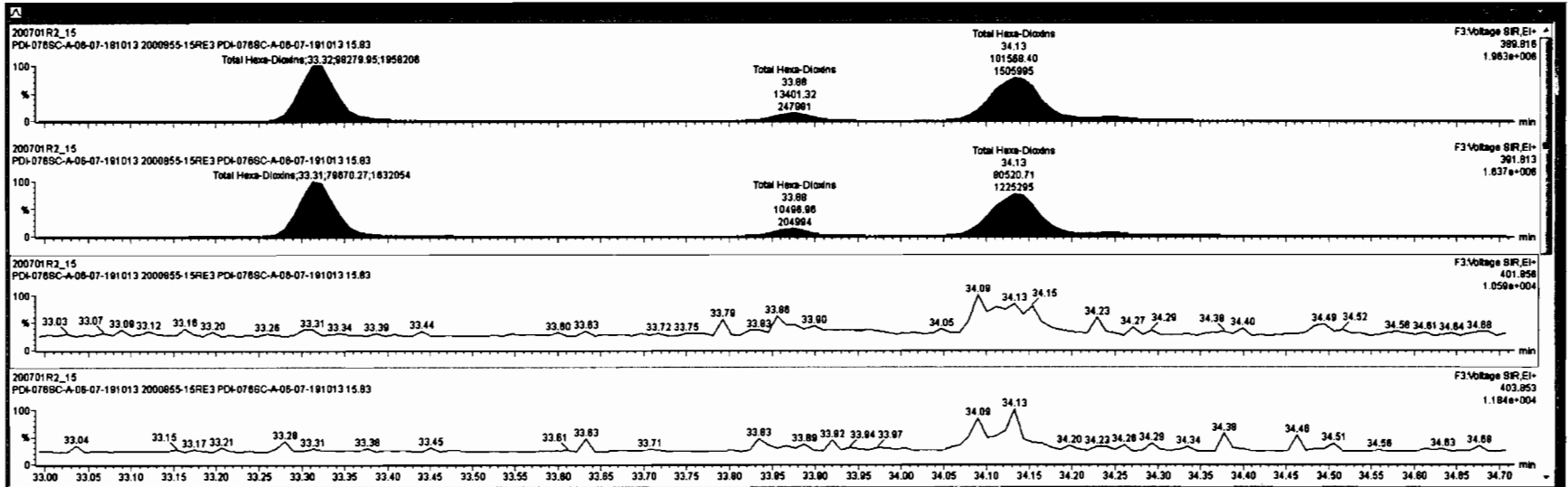


200701R2_15



Total Tetra-Dioxine			0.8883	10.185	24.82		21.8	0.0820	23.2
Total Penta-Dioxine			0.8081	10.185	29.98		29.8	0.112	29.8
Total Hexa-Dioxine			0.8838	10.185	38.80		1.350	0.829	1.350

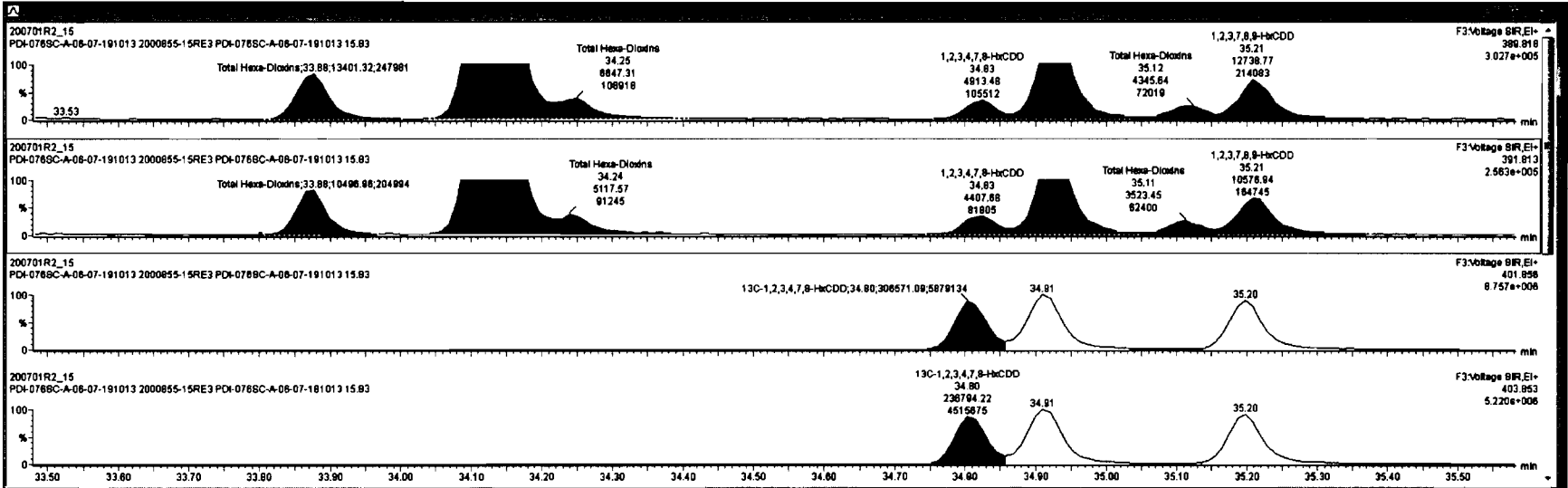
Total Hexa-Dioxine	33.32	8.828e4	7.987e4	4.23	NO	83.095	83.095
Total Hexa-Dioxine	33.88	1.340e4	1.052e4	4.28	NO	8.4735	8.4735
Total Hexa-Dioxine	34.13	1.018e5	8.052e4	4.28	NO	84.582	84.582
Total Hexa-Dioxine	34.25	8.847e3	5.118e3	4.30	NO	4.1714	4.1714





Total Tetra-Dioxins		0.8993	10.185	24.82		21.8	0.0820	23.2
Total Penta-Dioxins		0.9081	10.185	29.98		29.8	0.112	29.9
Total Hexa-Dioxins		0.8639	10.185	38.80		1350	0.829	1350

Total Hexa-Dioxins	33.32	9.628e4	7.987e4	1.23	NO	83.085	83.085
Total Hexa-Dioxins	33.88	1.340e4	1.080e4	1.28	NO	8.4735	8.4735
Total Hexa-Dioxins	34.13	1.018e5	8.062e4	1.28	NO	84.582	84.582
Total Hexa-Dioxins	34.25	6.847e3	5.118e3	1.30	NO	4.1714	4.1714



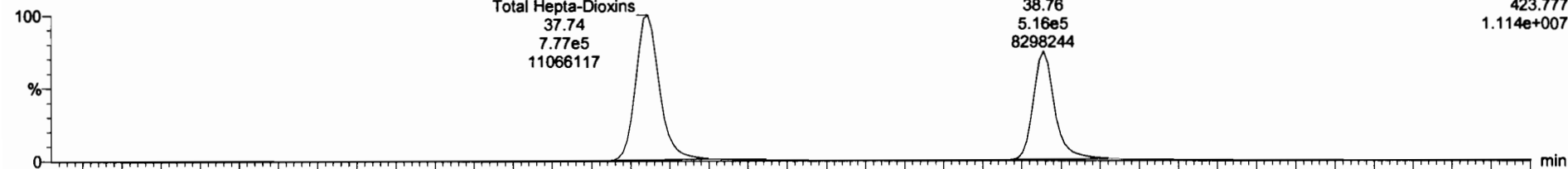
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Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

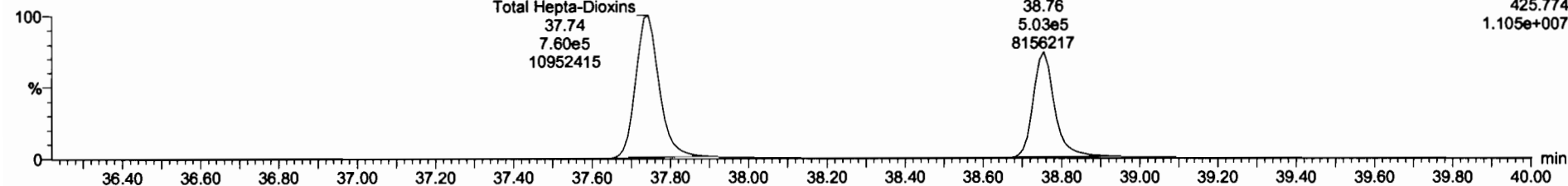
1,2,3,4,6,7,8-HpCDD

200701R2_15



F4:Voltage SIR,EI+
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1.114e+007

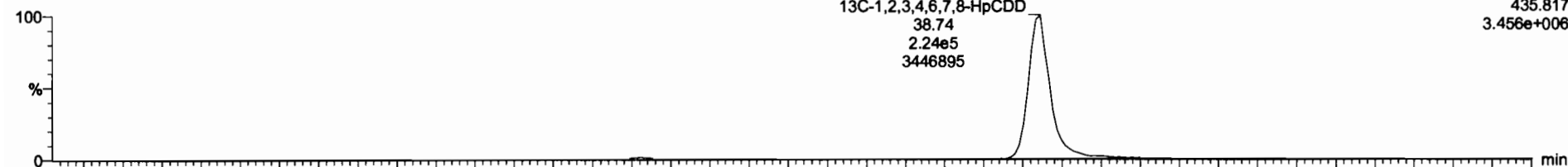
200701R2_15



F4:Voltage SIR,EI+
425.774
1.105e+007

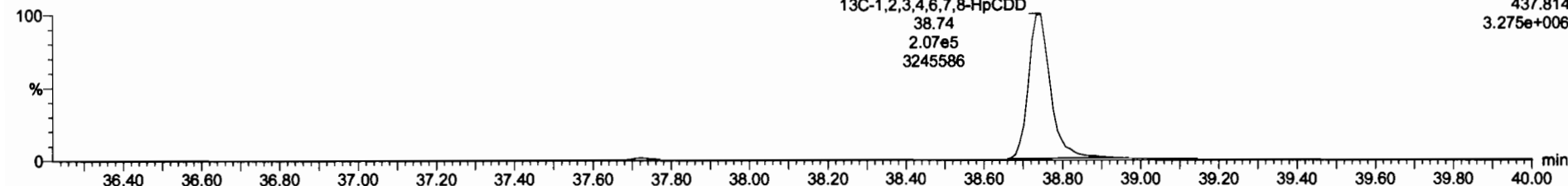
13C-1,2,3,4,6,7,8-HpCDD

200701R2_15



F4:Voltage SIR,EI+
435.817
3.456e+006

200701R2_15

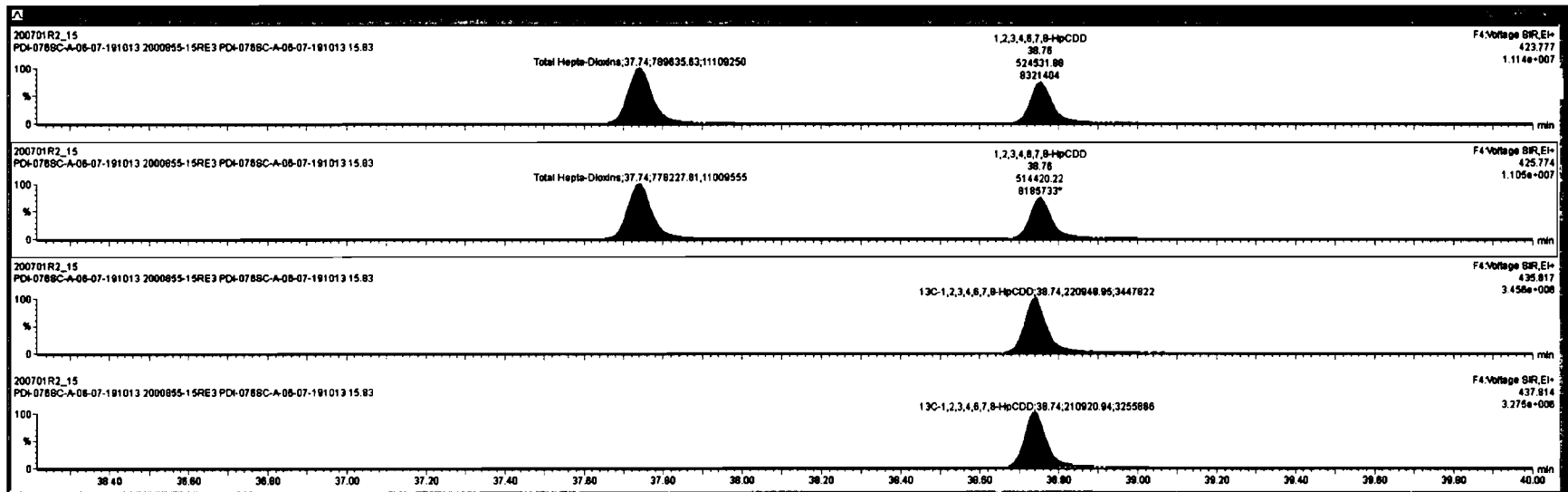


F4:Voltage SIR,EI+
437.814
3.275e+006



Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration
Total Hepta-Chlorine	37.74	7.889e5	7.712e5	1.01	NO	825.21	825.21
Total Penta-Chlorine	38.78	5.245e5	5.138e5	1.02	NO	546.42	546.42
Total Hexa-Chlorine	38.74	7.889e5	7.712e5	1.01	NO	825.21	825.21

Peak	Retention Time (min)	Area	Height	Width	Integration	Integration	Integration
1,2,3,4,6,7,8-HpCDD	38.78	5.245e5	5.138e5	1.02	NO	546.42	546.42



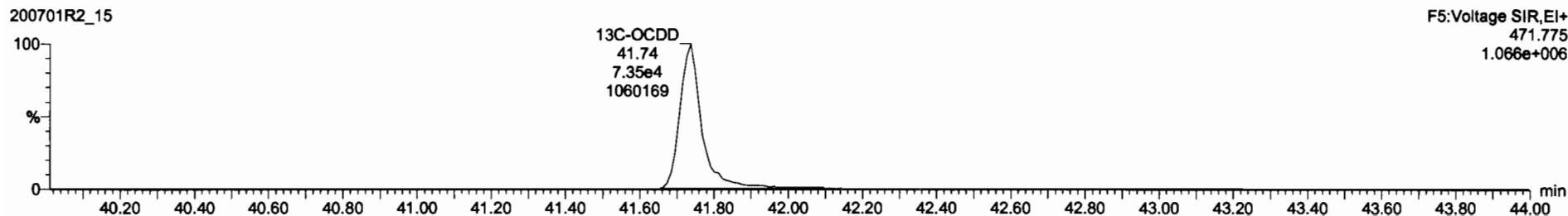
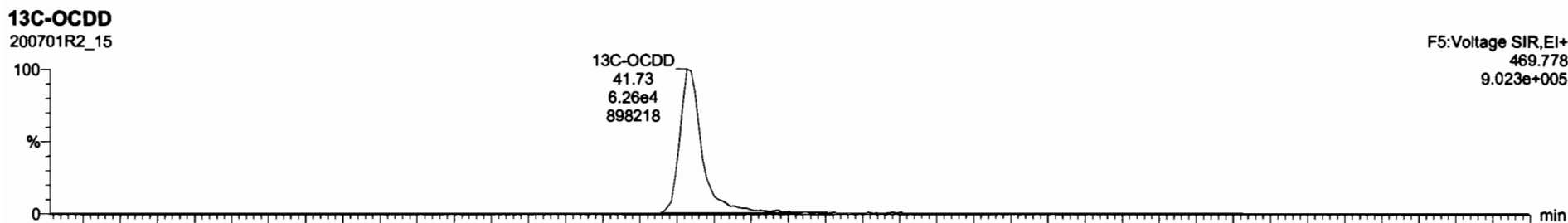
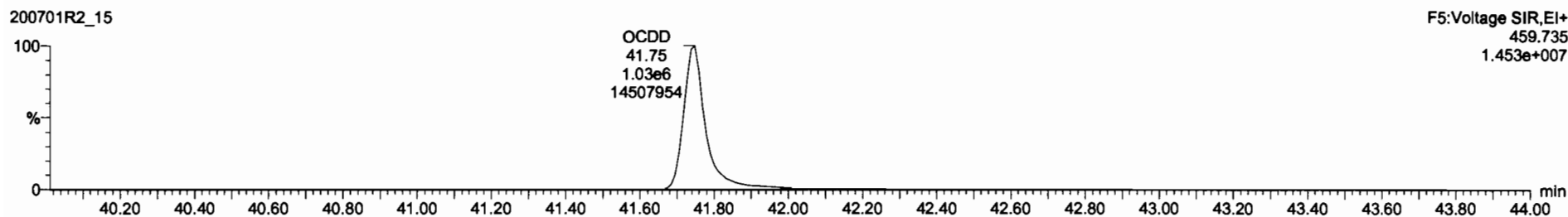
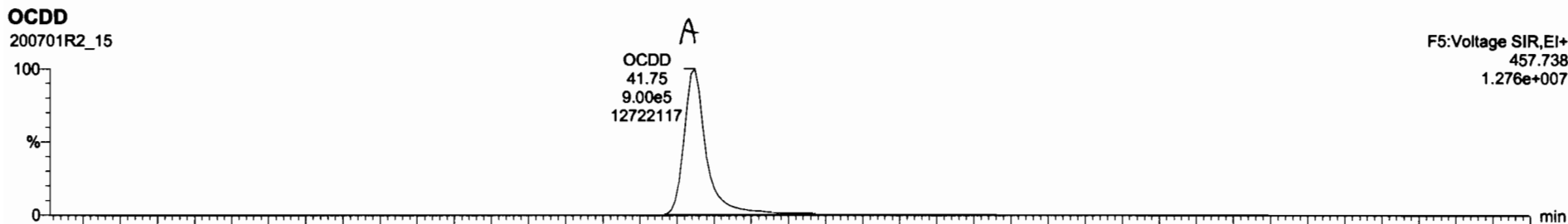
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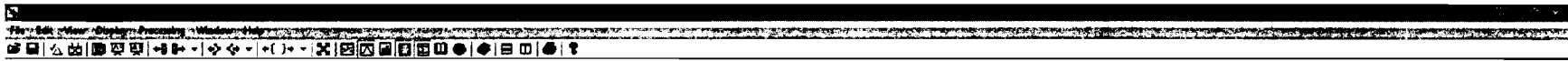
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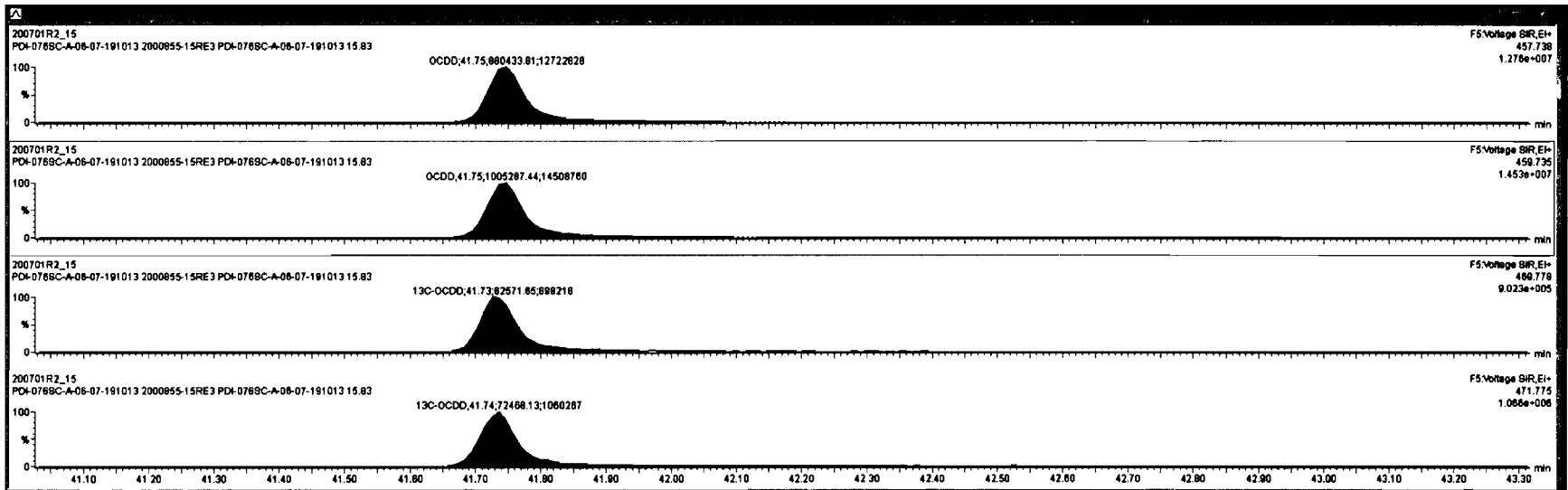
Printed: Thursday, July 02, 2020 15:32:56 Pacific Daylight Time

Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013





2,3,7,8-TCDF	1.12e6	0.73	NO	0.7510	10.186	25.57	25.57	1.001	228	0.154	228
1,2,3,7,8-PeCDF	1.874e	1.51	NO	0.8825	10.186	30.18	30.18	1.001	318	0.320	318
2,3,4,7,8-PeCDF	9.044e	1.56	NO	0.8348	10.186	31.15	31.13	1.000	178	0.331	178

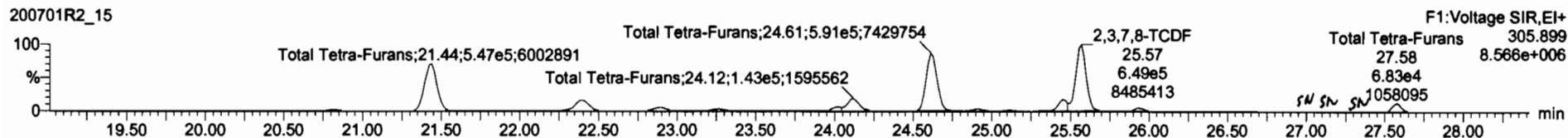
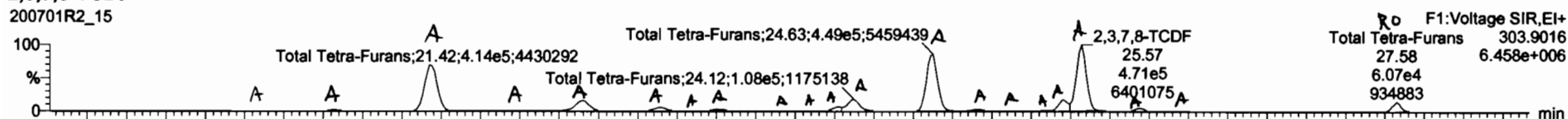


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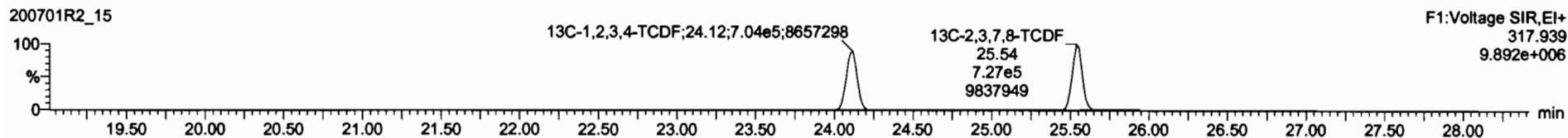
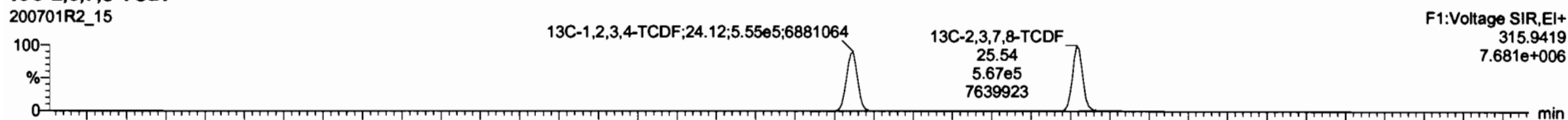
Last Altered: Thursday, July 02, 2020 15:17:41 Pacific Daylight Time
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Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

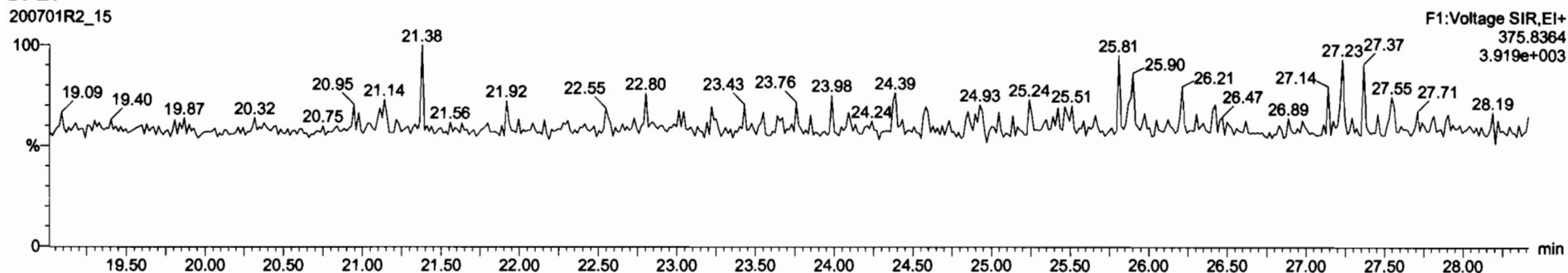
2,3,7,8-TCDF

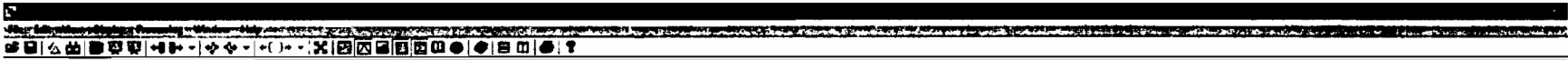


13C-2,3,7,8-TCDF



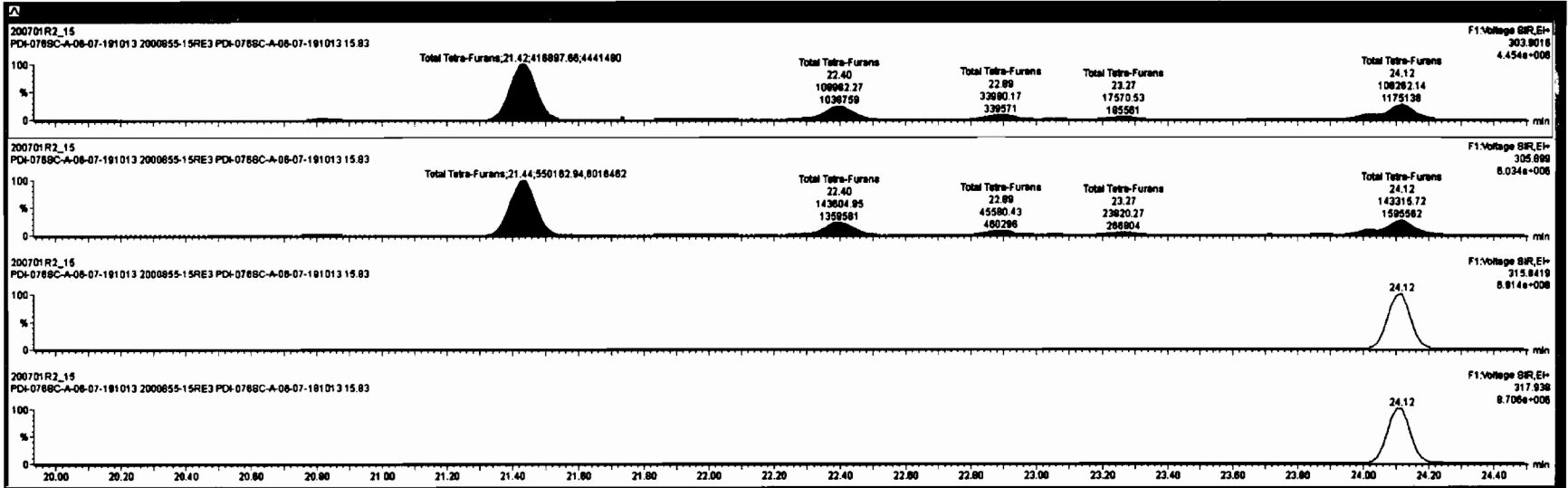
DPE1



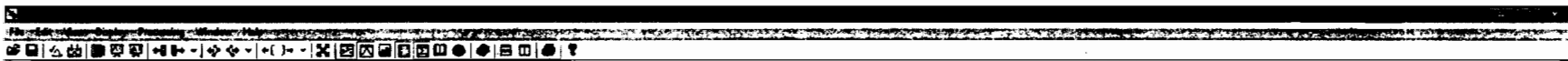


1st Func: Penta-Furans		0.8625	10.185	27.04		79.0	0.0283	79.0
Total Penta-Furans		0.8625	10.185	28.27		879	0.233	877
Total Hexa-Furans		0.8241	10.185	33.58		1180	0.267	1180

Total Tetra-Furans	20.28	1.838e3	2.585e3	0.75	MC	0.91433	8.91433
Total Tetra-Furans	20.83	9.888e3	1.282e4	0.75	MC	4.5829	4.5829
Total Tetra-Furans	21.42	4.188e5	5.502e5	0.78	MC	196.44	196.44
Total Tetra-Furans	21.88	2.183e4	3.068e4	0.71	MC	10.594	10.594

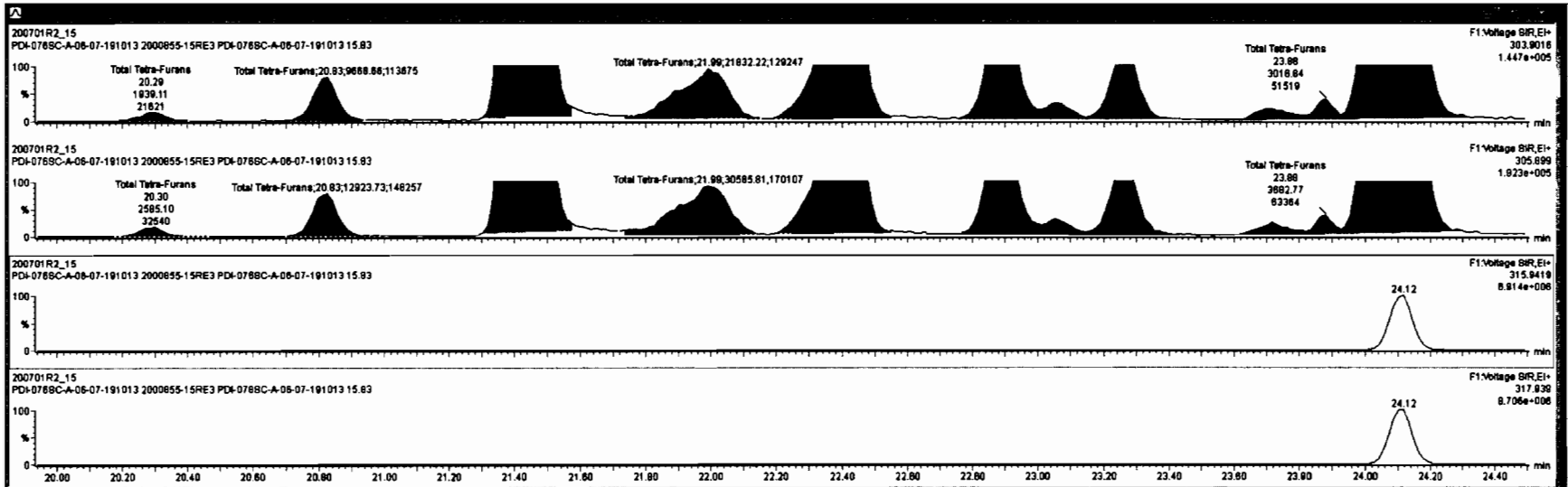


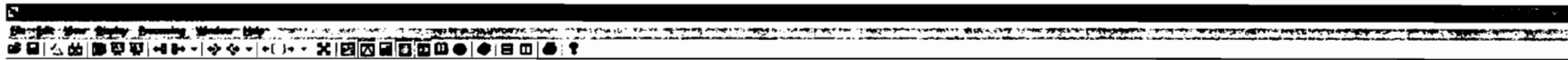
Ready [15 200701R2_15] [8000]



1st Func: Para-Furans			0.8625	10.185	27.04		76.0	0.0283	76.0
Total Para-Furans			0.8625	10.185	28.27		876	0.333	877
Total Hexa-Furans			0.8341	10.185	33.58		1180	0.357	1180

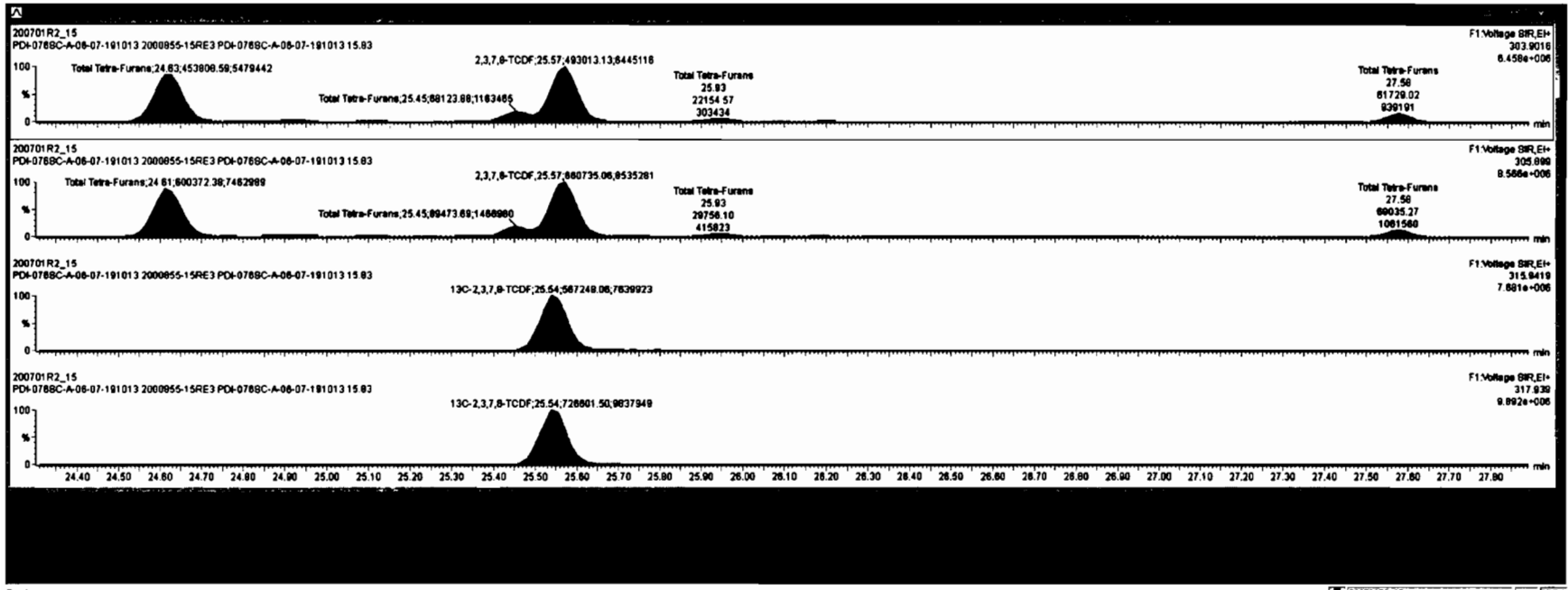
Total Tetra-Furans	20.29	1.829e3	2.585e3	0.75	ND	0.91433	0.91433
Total Tetra-Furans	20.83	9.889e3	1.292e4	0.75	ND	4.5859	4.5859
Total Tetra-Furans	21.42	4.189e5	5.522e5	0.78	ND	195.44	195.44
Total Tetra-Furans	21.88	2.183e4	3.558e4	0.71	ND	10.594	10.594





Total Penta-Furans				0.0825	10.185	27.04		78.0		0.0283	78.0
Total Penta-Furans				0.0825	10.185	29.27		876		0.333	877
Total Hexa-Furans				0.0341	10.185	33.58		1180		0.367	1180

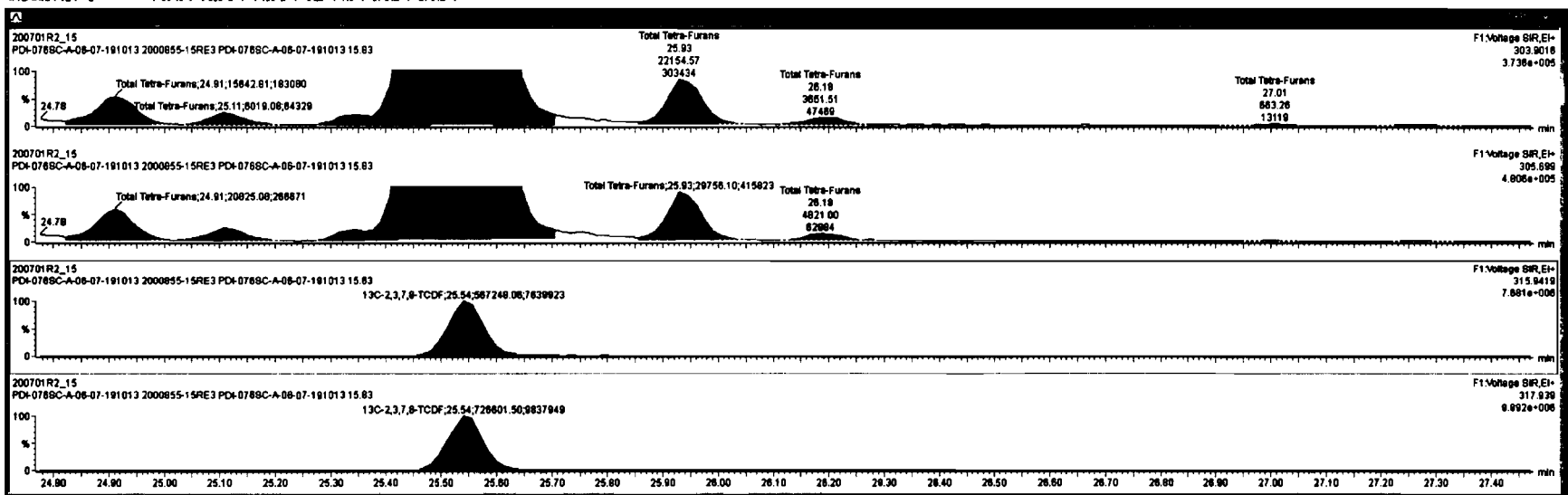
Total Tetra-Furans	20.29	1.520e3	2.885e3	0.75	NO	0.81433	0.81433
Total Tetra-Furans	20.83	9.880e3	1.262e4	0.75	NO	4.5805	4.5805
Total Tetra-Furans	21.42	4.180e5	5.522e5	0.78	NO	196.44	196.44
Total Tetra-Furans	21.98	2.183e4	3.060e4	0.71	NO	10.594	10.594





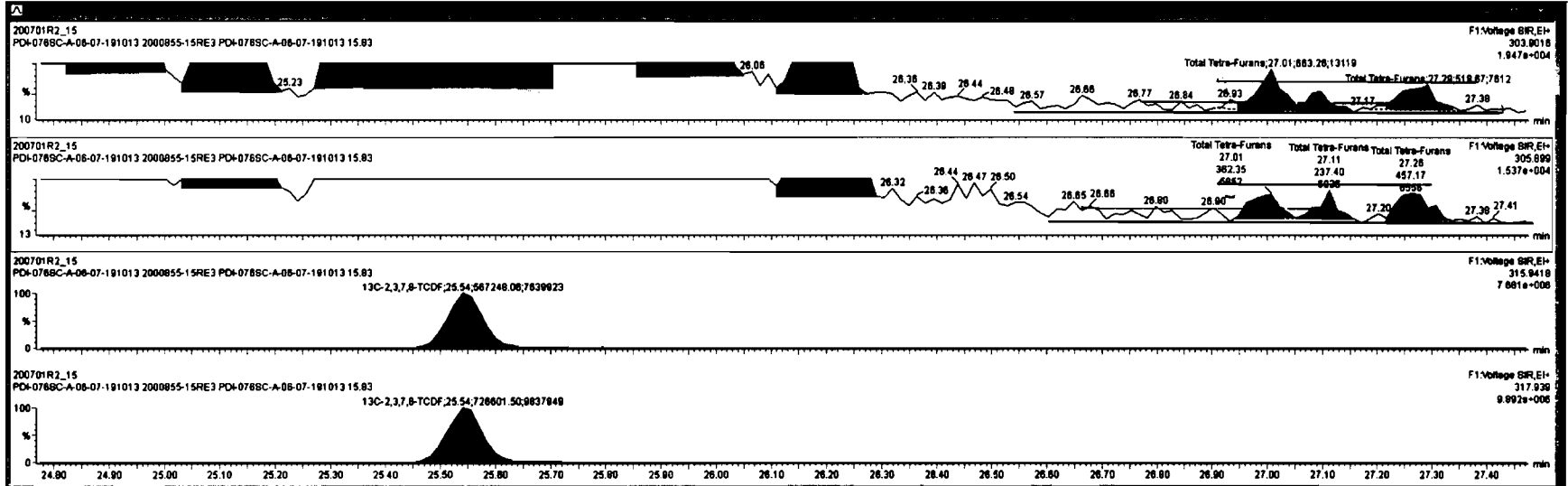
1st Func: Peris-Furane	0.8625	10.185	27.04		78.0	0.0283	78.0
Total Peris-Furane	0.8625	10.185	28.27		876	0.333	877
Total Mono-Furane	0.8341	10.185	33.58		1180	0.367	1180

Total Tetra-Furane	20.28	1.823e3	2.595e3	0.75	NO	0.91433	0.91433
Total Tetra-Furane	20.83	9.889e3	1.282e4	0.75	NO	4.5850	4.5850
Total Tetra-Furane	21.42	4.198e5	5.502e5	0.78	NO	195.44	195.44
Total Tetra-Furane	21.98	2.183e4	3.069e4	0.71	NO	10.594	10.594



1st Func: Peris-Furans	0.8625	10.185	27.04		78.0	0.0283	78.0
Total Peris-Furans	0.8625	10.185	28.27		878	0.333	877
Total Hexa-Furans	0.8341	10.185	33.98		1180	0.367	1180

Total Tetra-Furans	20.29	1.839e3	2.585e3	0.75	NO	0.91433	0.91433
Total Tetra-Furans	20.83	9.889e3	1.262e4	0.75	NO	4.5859	4.5859
Total Tetra-Furans	21.42	4.189e5	5.802e5	0.78	NO	196.44	196.44
Total Tetra-Furans	21.90	2.183e4	3.059e4	0.71	NO	10.594	10.594



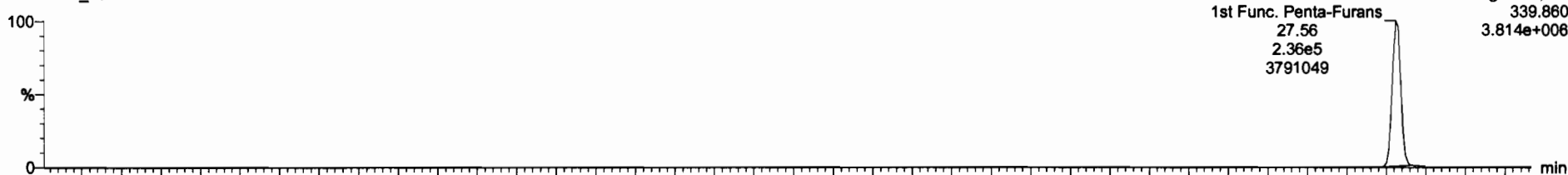
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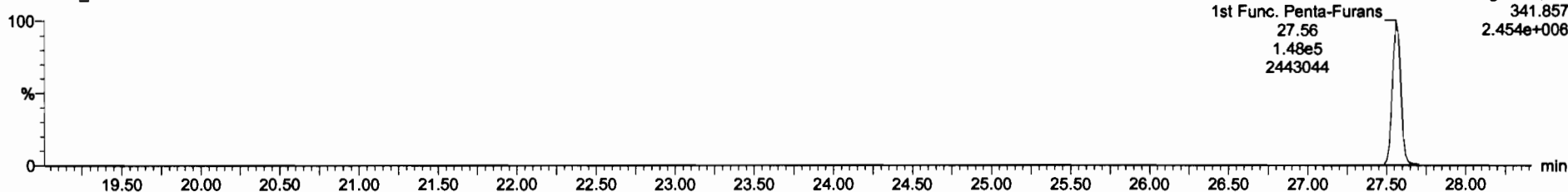
Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

1st Func. Penta-Furans

200701R2_15

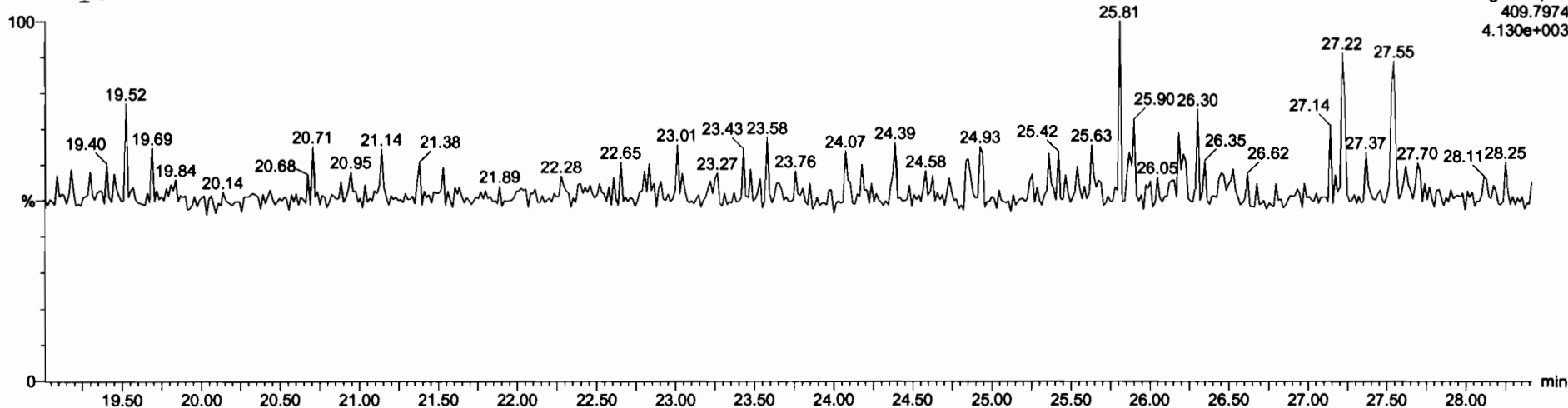


200701R2_15



DPE6

200701R2_15

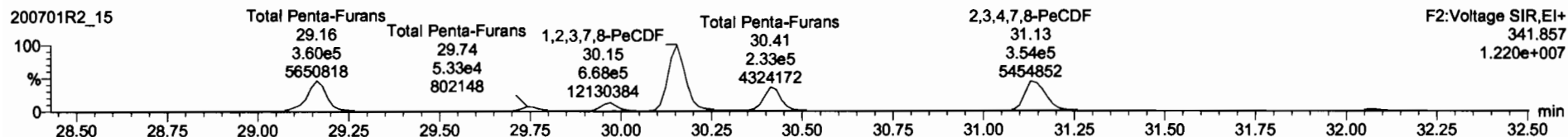
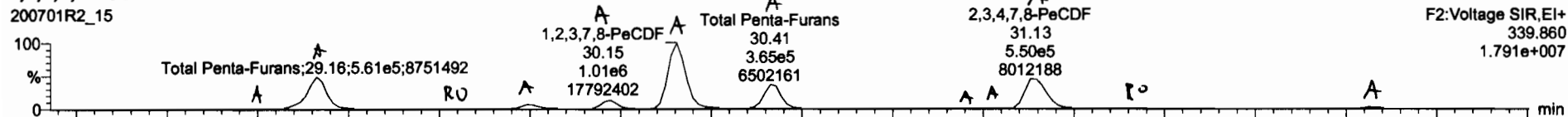


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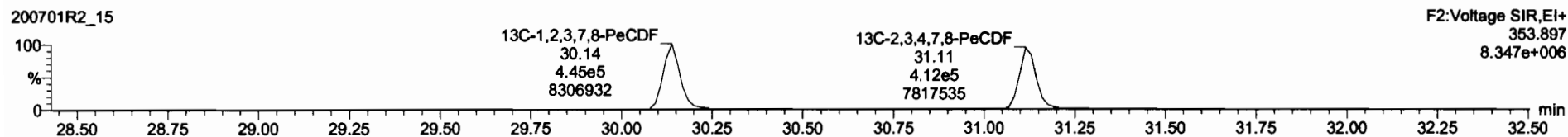
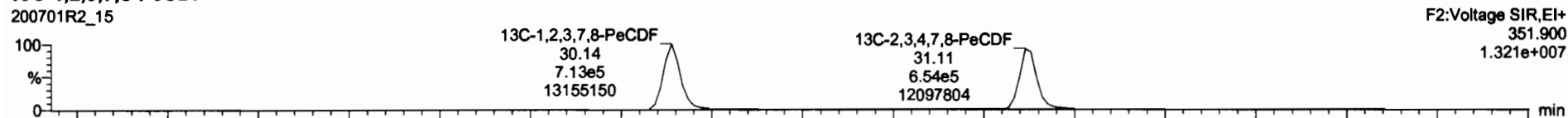
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Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

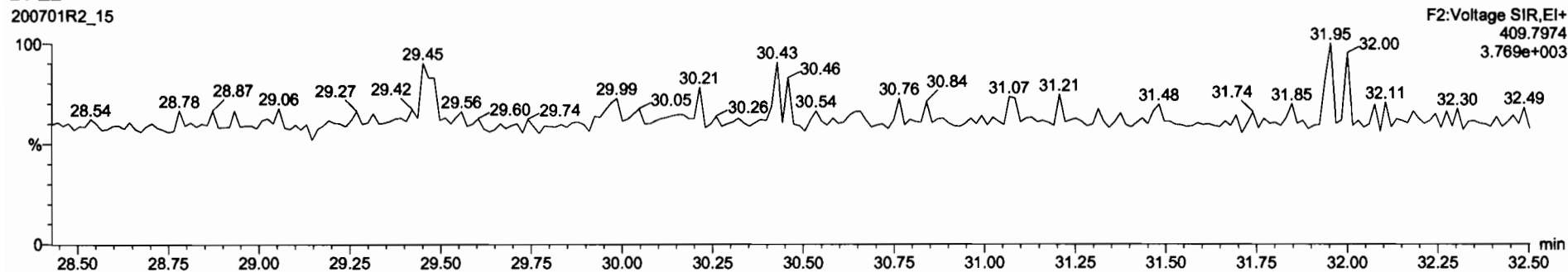
1,2,3,7,8-PeCDF

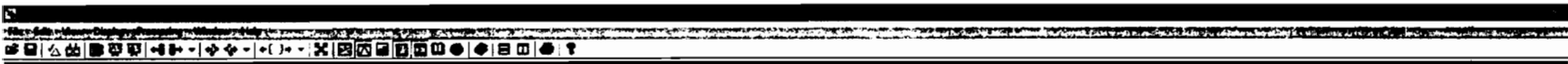


13C-1,2,3,7,8-PeCDF



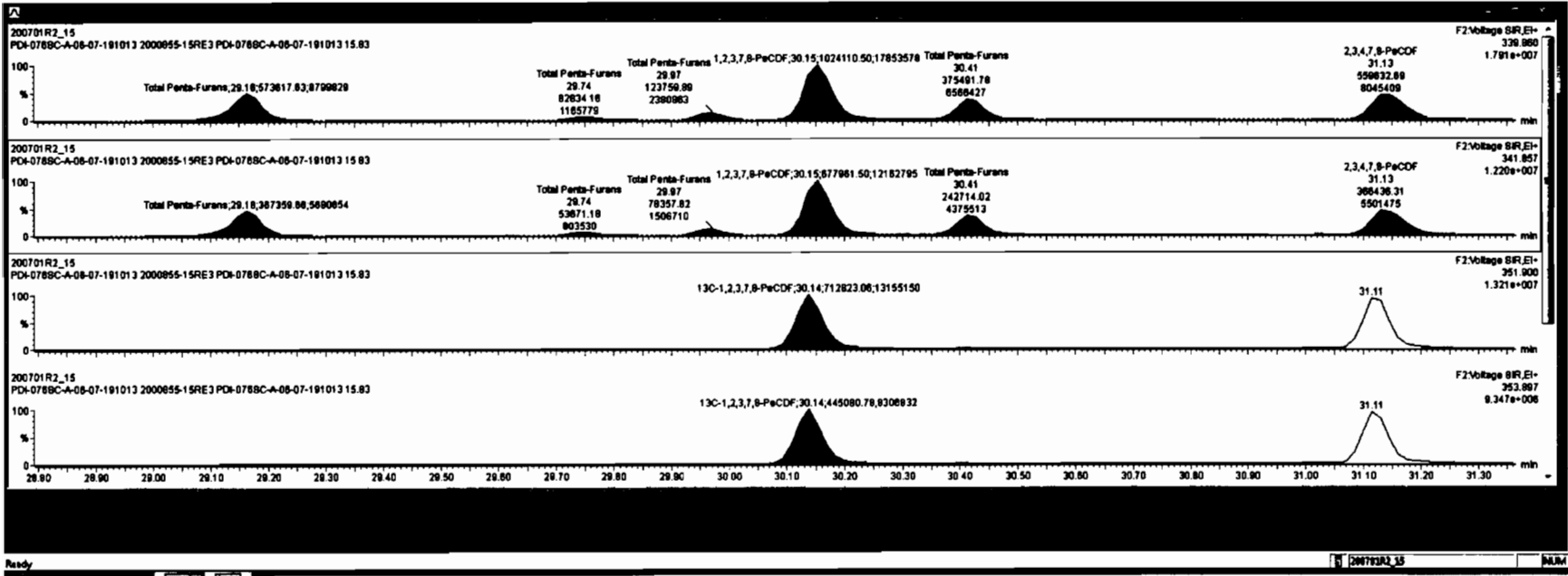
DPE2

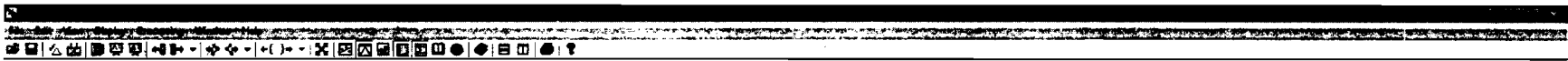




Total Penta-Furans		0.7510	10.185	23.81		857	0.154	891
1st Func. Penta-Furans		0.8825	10.185	27.04		78.0	0.0283	78.0
Total Hexa-Furans		0.8341	10.185	33.58		1180	0.357	1180

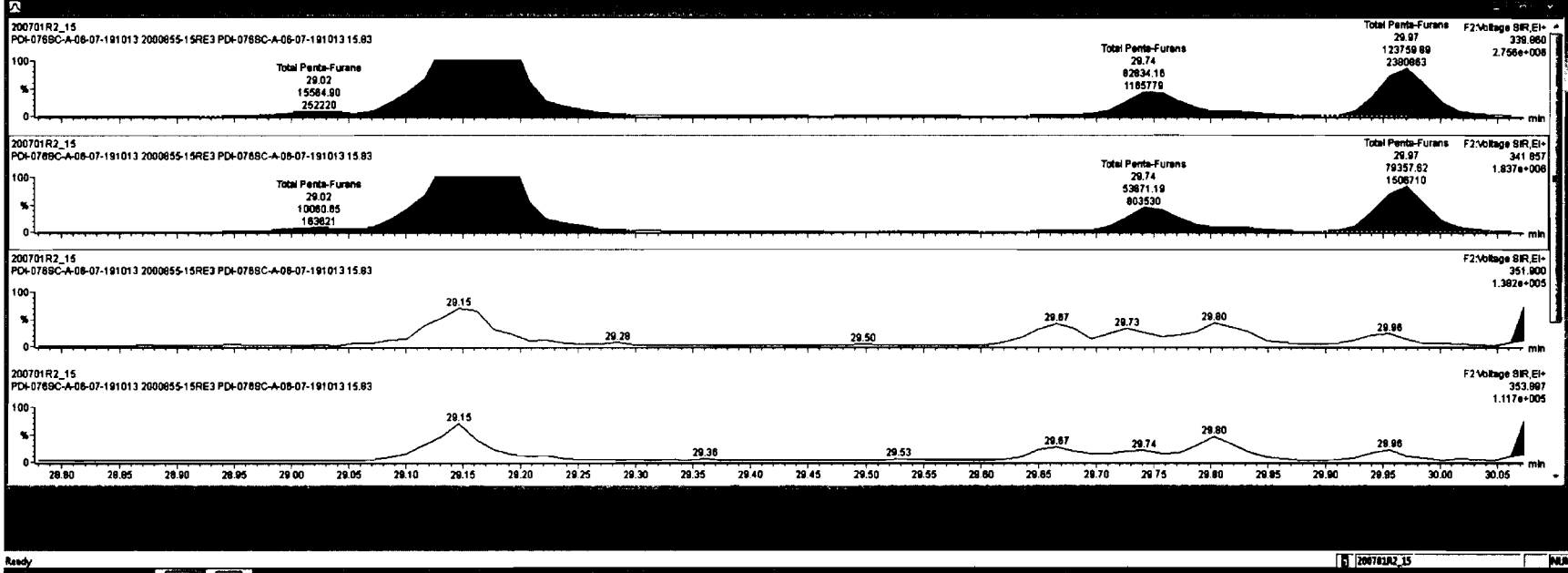
Total Penta-Furans	28.02	1.899e4	1.009e4	1.55	NO	5.8708	5.0708
Total Penta-Furans	28.18	5.738e5	3.874e5	1.58	NO	188.19	188.19
Total Penta-Furans	28.53	1.780e3	1.340e3	1.31	YES	0.57208	0.00000
Total Penta-Furans	28.74	8.283e4	5.387e4	1.54	NO	27.011	27.011
Total Penta-Furans	28.97	1.228e5	7.839e4	1.58	NO	38.894	38.894
1,2,3,7,8-PeCDF	30.15	1.024e6	8.780e5	1.51	NO	323.41	323.41
Total Penta-Furans	29.41	1.799e4	1.477e4	1.44	NO	177.91	177.91

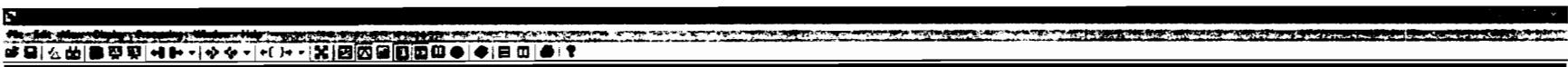




Total Tetra-Furane			0.7910	10.186	23.81		857	0.154	881
Tot Func. Penta-Furane			0.8625	10.186	27.04		76.0	0.0293	76.0
Total Hexa-Furane			0.8341	10.186	33.96		1180	0.387	1180

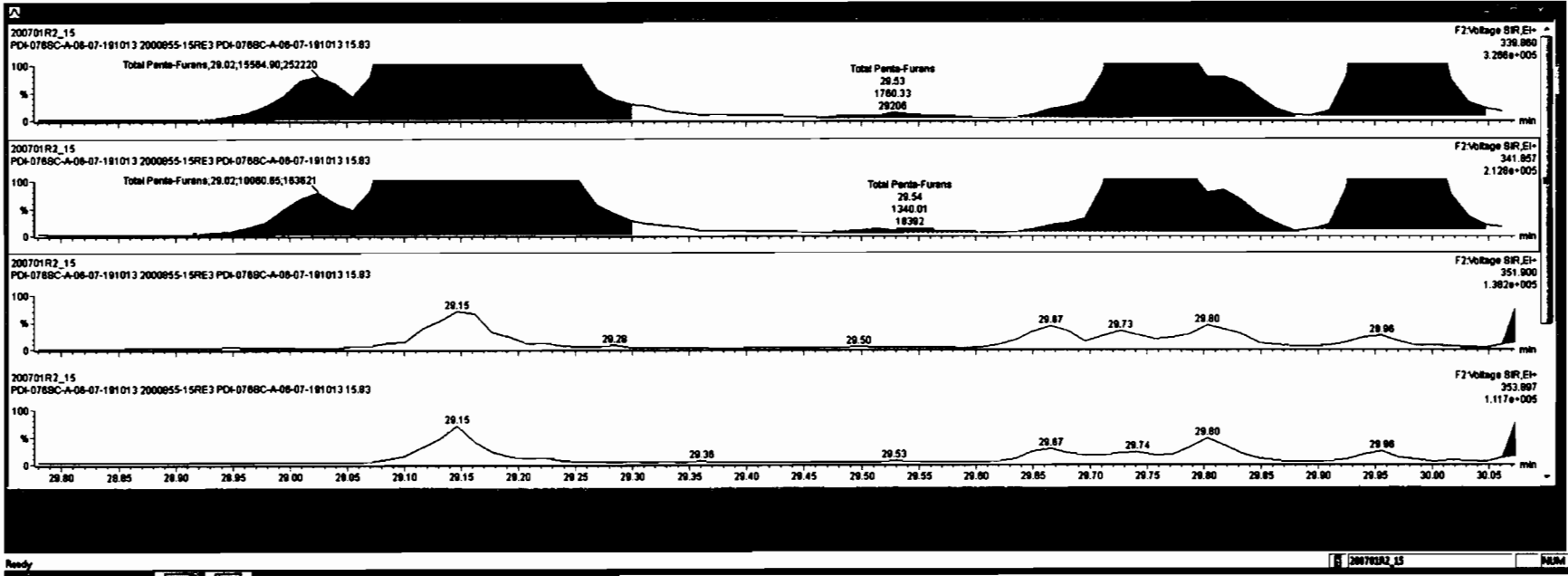
Total Penta-Furane	29.02	1.598e4	1.028e4	1.55	NO	5.0704	5.0706
Total Penta-Furane	29.16	5.739e3	3.674e3	1.58	NO	188.19	188.19
Total Penta-Furane	29.83	1.789e3	1.340e3	1.31	YES	0.67306	0.00000
Total Penta-Furane	29.74	8.263e4	5.387e4	1.54	NO	27.011	27.011
Total Penta-Furane	29.87	1.239e5	7.835e4	1.59	NO	38.894	38.894
1,2,3,7,8-PeCDF	30.15	1.024e5	8.780e4	1.51	NO	323.41	323.41
Total Penta-Furans	30.41	1.745e4	2.477e4	1.48	NO	172.91	172.91

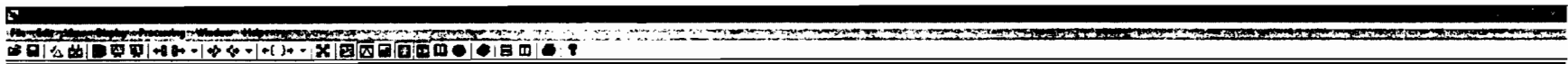




Total Tetra-Furans		0.7910	10.185	23.91		827	0.154	891
1st Func. Penta-Furans		0.8629	10.185	27.04		79.0	0.0293	78.0
Total Hexa-Furans		0.8341	10.185	33.58		1180	0.367	1180

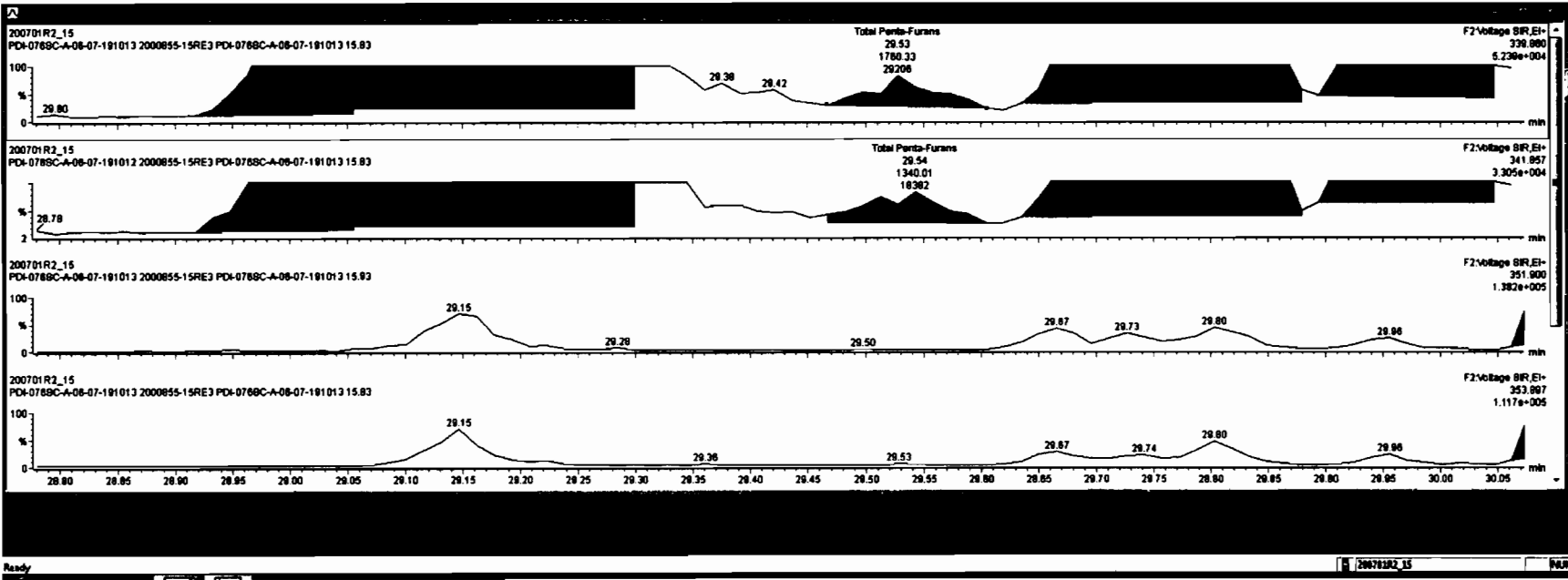
Total Penta-Furans	28.02	1.058e4	1.005e4	1.85	NO	5.0708	5.0708
Total Penta-Furans	28.18	5.738e5	3.874e5	1.58	NO	186.19	186.18
Total Penta-Furans	28.53	1.780e3	1.340e3	1.31	YES	0.52306	0.50000
Total Penta-Furans	28.74	8.283e4	5.367e4	1.54	NO	27.011	27.011
Total Penta-Furans	29.97	1.238e5	7.828e4	1.58	NO	38.884	38.884
1,2,3,7,8-PeCDF	30.15	1.024e8	8.780e5	1.51	NO	323.41	323.41
Dist. Penta-Furans	30.41	1.749e4	7.477e4	1.44	NA	177.44	177.44





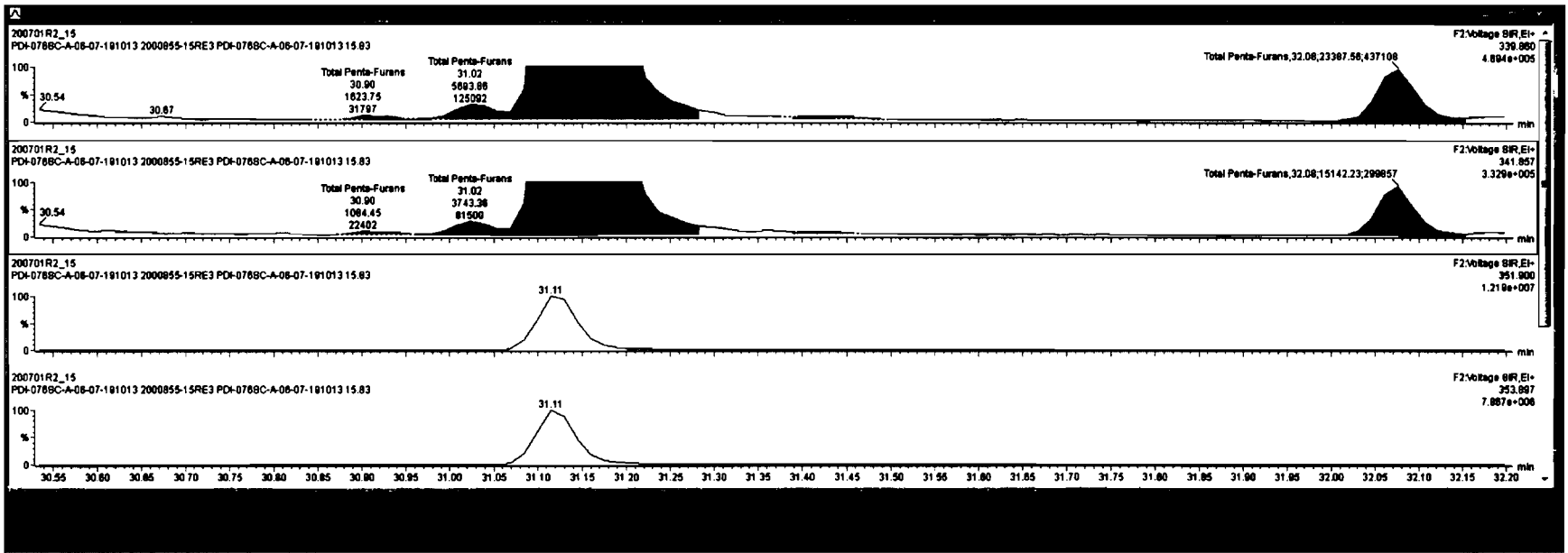
Total Penta-Furans		0.7510	10.185	23.01		857		0.154	961
Total Hexa-Furans		0.8625	10.185	27.04		78.0		0.0280	78.0
Total Hepta-Furans		0.8341	10.185	33.58		1180		0.357	1180

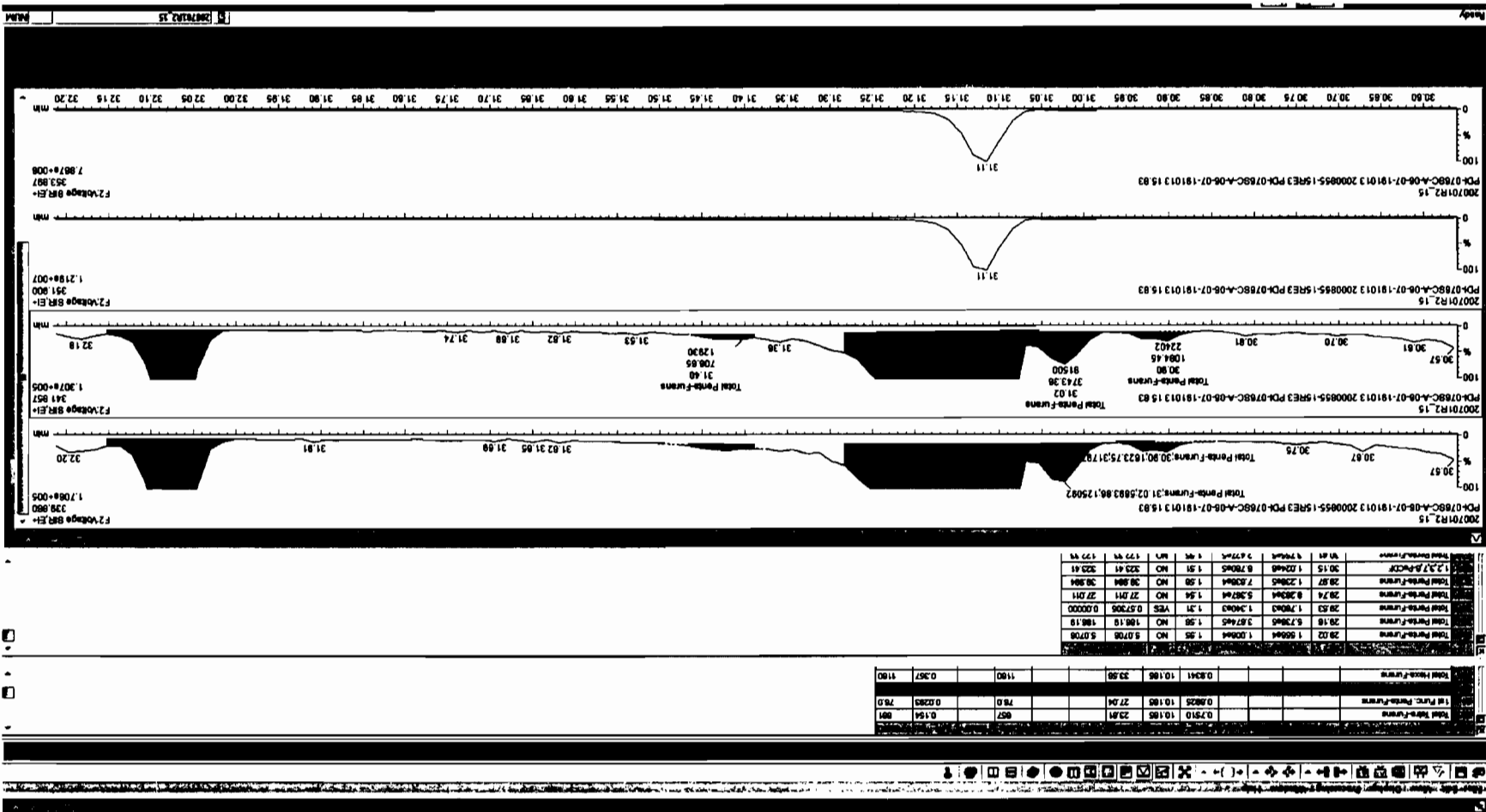
Total Penta-Furans	30.41	3.75e6	2.427e5	1.95	NO	122.33	122.33
Total Penta-Furans	30.90	1.82e6	1.084e3	1.90	NO	0.53989	0.53989
Total Penta-Furans	31.02	8.804e3	3.743e3	1.82	NO	1.8874	1.8874
2,3,4,7,8-PeCDF	31.13	6.588e6	3.884e6	1.83	NO	182.51	182.51
Total Penta-Furans	31.42	1.313e3	7.089e2	1.86	YES	0.39898	0.00000
Total Penta-Furans	32.08	2.336e4	1.514e4	1.54	NO	7.8240	7.8240

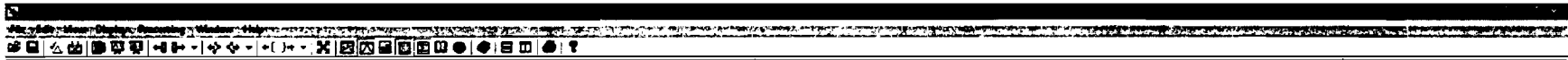


Total Tetra-Furans			0.7510	10.185	22.81		657		0.154	661
Total Func. Penta-Furans			0.8825	10.185	27.04		78.0		0.0283	78.0
Total Hexa-Furans			0.8341	10.185	33.58		1190		0.357	1190

Total Penta-Furans	28.02	1.589e4	1.008e4	1.35	NO	5.0705	5.0708
Total Penta-Furans	28.16	5.736e5	3.874e5	1.58	NO	186.19	186.19
Total Penta-Furans	28.33	1.780e3	1.340e3	1.31	YES	0.57306	0.00000
Total Penta-Furans	28.74	8.383e4	5.387e4	1.54	NO	27.011	27.011
Total Penta-Furans	28.87	1.228e5	7.838e4	1.58	NO	38.884	38.884
1,2,3,7,8-PeCDF	30.15	1.024e8	8.780e5	1.51	NO	323.41	323.41
Total Hexa-Furans	31.81	1.746e4	1.477e4	1.48	NO	172.94	172.94

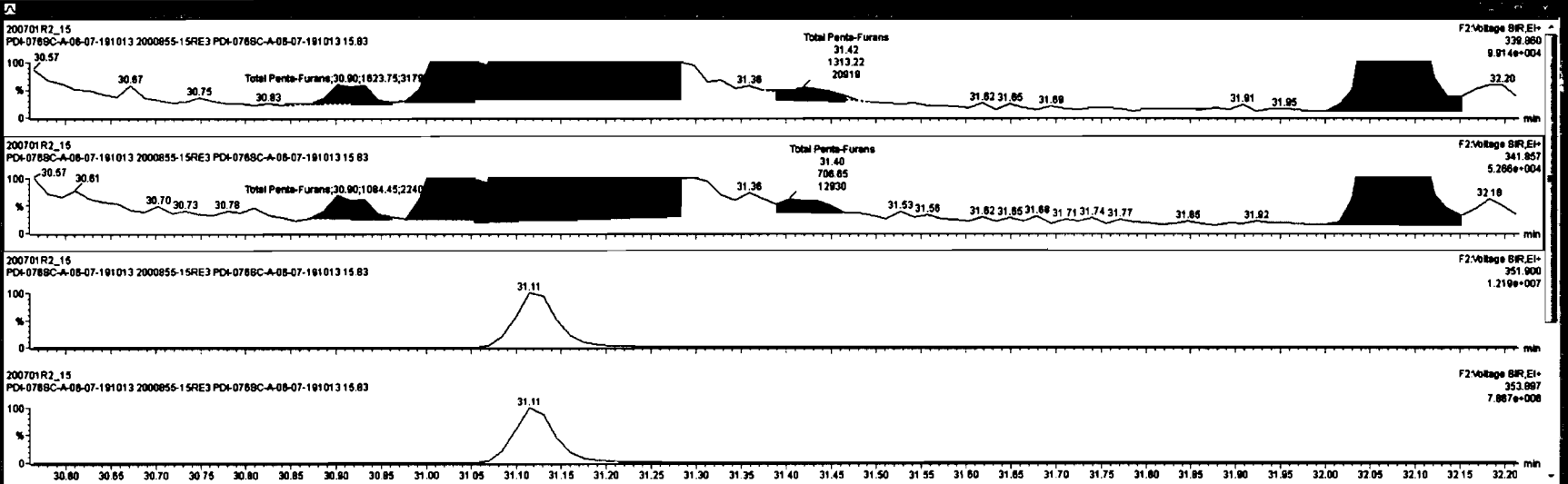






Total Penta-Furans			0.7910	10.185	23.81		867		0.154	891
Total Func. Penta-Furans			0.8828	10.185	27.04		79.0		0.0283	78.0
Total Hexa-Furans			0.8341	10.185	33.58		1180		0.357	1180

Total Penta-Furans	29.02	1.598e4	1.020e4	1.25	NO	5.0705	5.0708
Total Penta-Furans	29.16	5.739e5	3.874e5	1.58	NO	186.19	186.19
Total Penta-Furans	29.53	1.780e3	1.340e3	1.31	YES	0.57305	0.00000
Total Penta-Furans	29.74	8.283e4	5.387e4	1.54	NO	27.011	27.011
Total Penta-Furans	29.87	1.220e5	7.828e4	1.59	NO	36.894	36.894
1,2,3,7,8-PeCDF	30.15	1.024e8	8.780e5	1.51	NO	323.41	323.41
Total Penta-Furans	31.41	1.746e4	1.477e4	1.46	NR	172.93	172.93

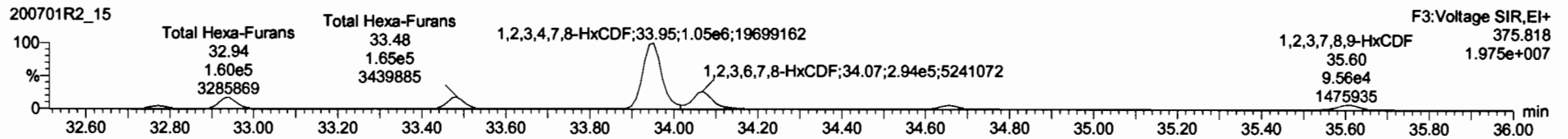
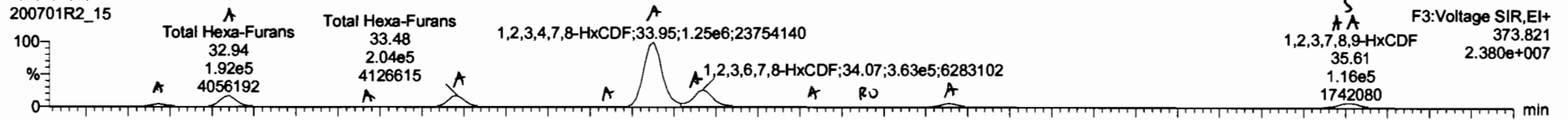


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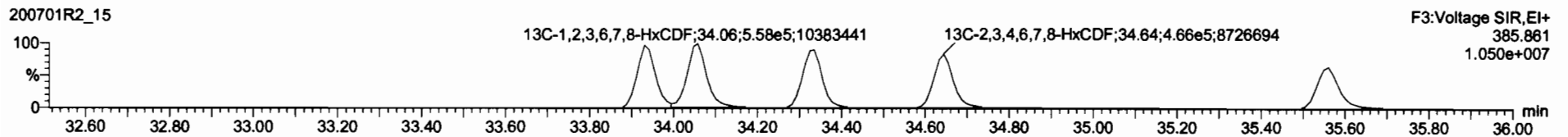
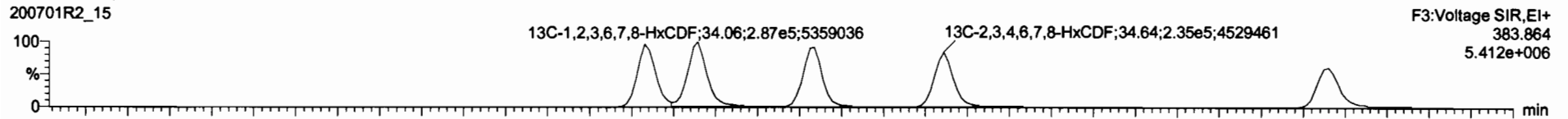
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Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

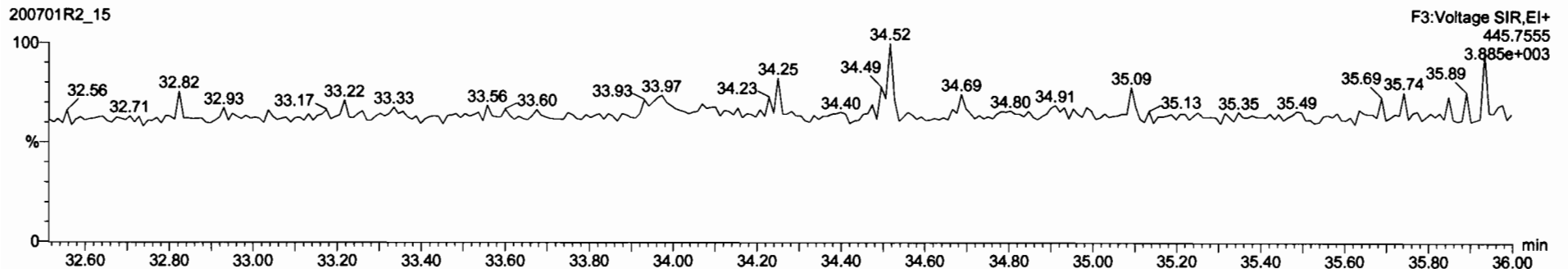
1,2,3,4,7,8-HxCDF



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

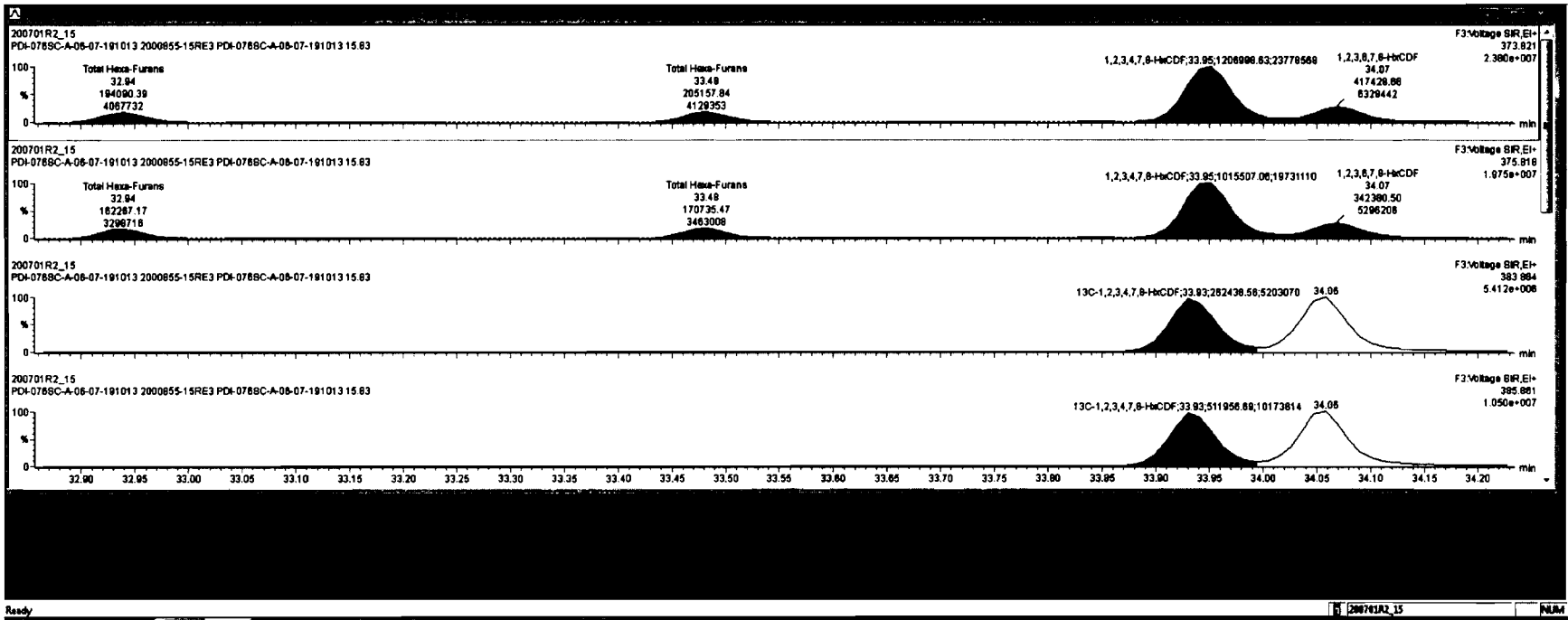


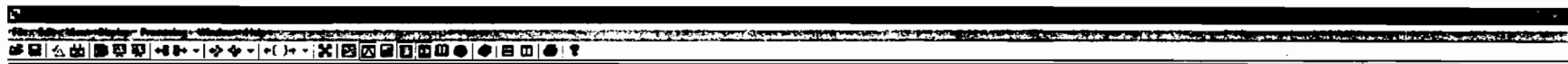
DPE3



Total Tetra-Furans	0.7510	10.185	23.91		857	0.154	891
Total Penta-Furans	0.8825	10.185	27.04		79.0	0.0285	78.0
Total Hexa-Furans	0.8825	10.185	28.27		867	0.333	867

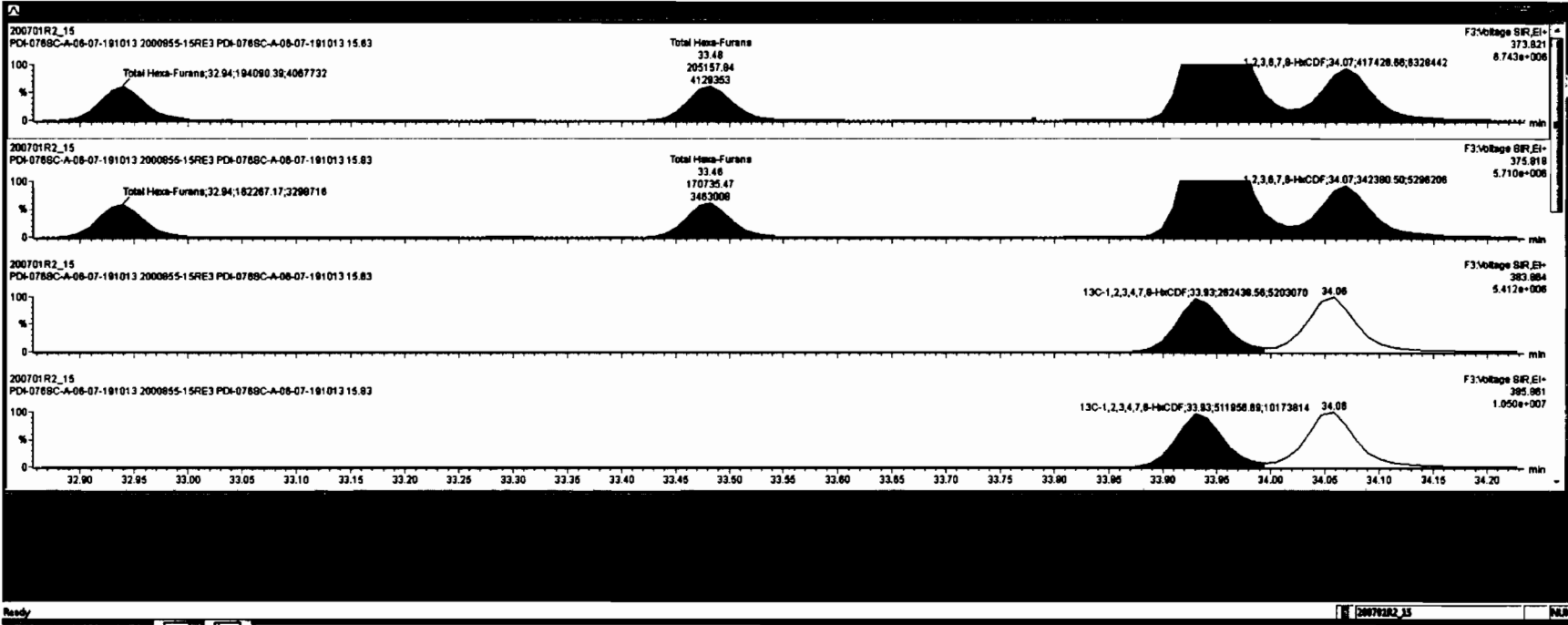
Total Hexa-Furans	32.77	4.825e4	4.828e4	1.21	NO	25.832	25.832
Total Hexa-Furans	32.94	1.941e5	1.822e5	1.20	NO	101.57	101.57
Total Hexa-Furans	33.29	3.285e3	2.825e3	1.18	NO	1.7870	1.7870





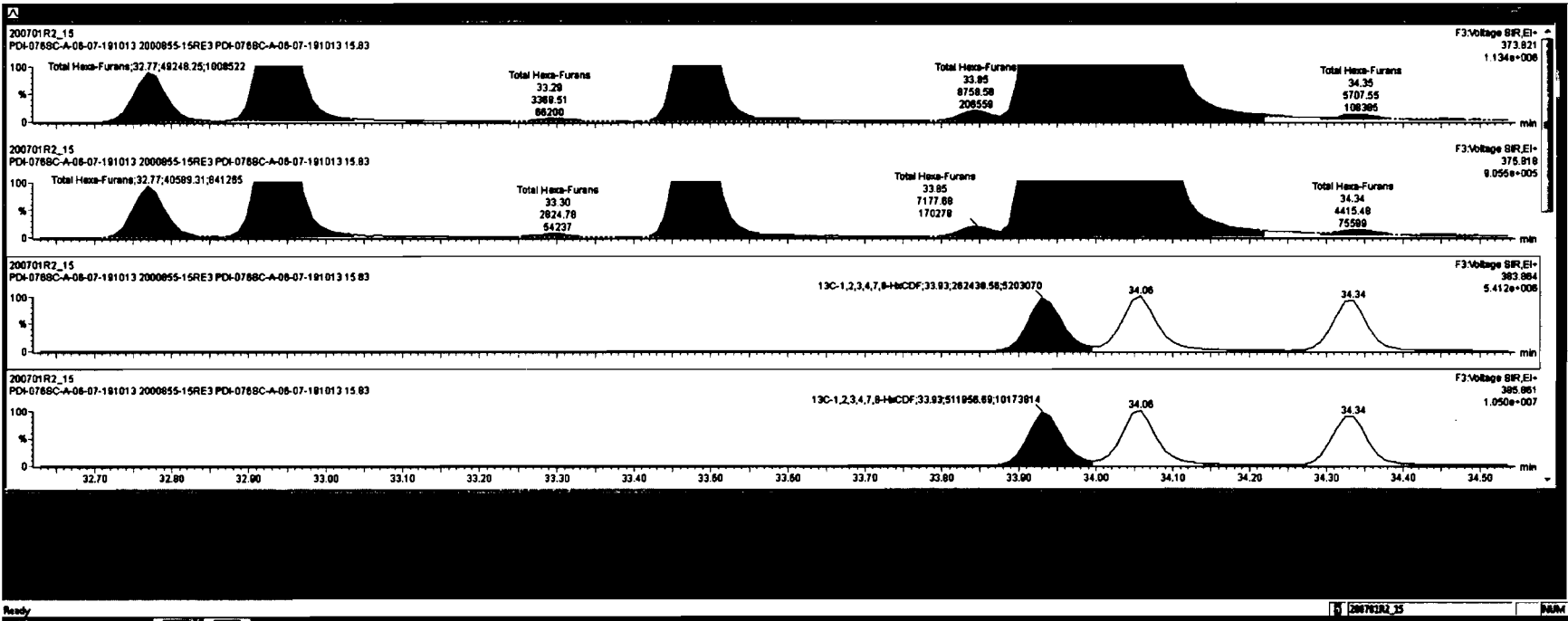
Total Tetra-Furans			0.7510	10.185	23.81			857		0.154	851
1,4 Tetra-Furans			0.8625	10.185	27.04			78.0		0.0283	78.0
Total Penta-Furans			0.8625	10.185	29.27			857		0.333	857

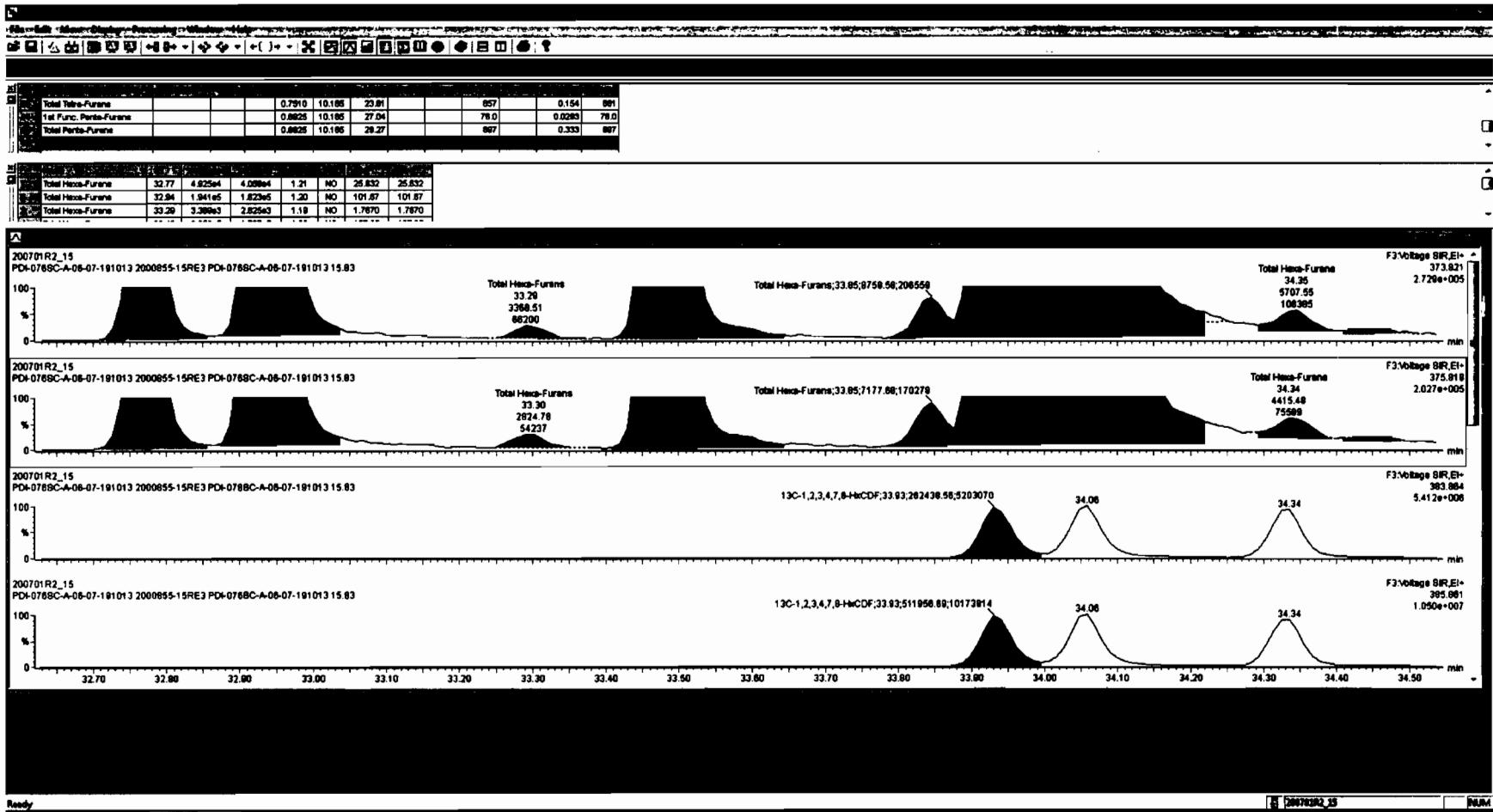
Total Hexa-Furans	32.77	4.825e4	4.098e4	1.21	NO	25.832	25.832
Total Hexa-Furans	32.94	1.941e5	1.823e5	1.20	NO	101.87	101.87
Total Hexa-Furans	33.20	3.309e3	2.825e3	1.18	NO	1.7870	1.7870

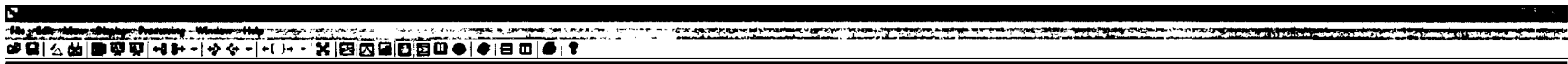


Total Tetra-Furans			0.7510	10.185	23.91		867	0.154	867
1st Func. Penta-Furans			0.8825	10.185	27.04		78.0	0.0285	78.0
Total Penta-Furans			0.8825	10.185	26.27		867	0.333	867

Total Hexa-Furans	32.77	4.82564	4.58864	1.21	NO	25.832	25.832
Total Hexa-Furans	32.98	1.84165	1.82265	1.20	NO	101.87	101.87
Total Hexa-Furans	33.20	3.28863	2.85663	1.19	NO	1.7870	1.7870

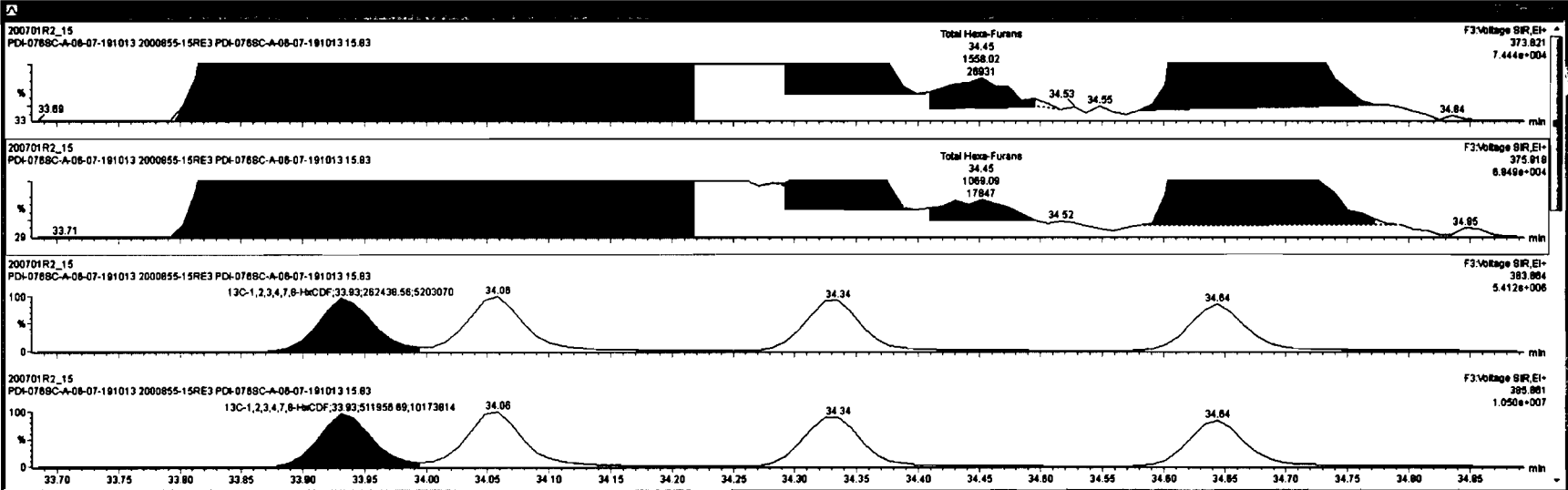






Total Hexa-Furane			0.7510	10.185	23.81		867		0.154	861
Net Func. Peris-Furane			0.8625	10.185	27.04		76.0		0.0283	76.0
Total Peris-Furane			0.8625	10.185	28.27		697		0.333	867

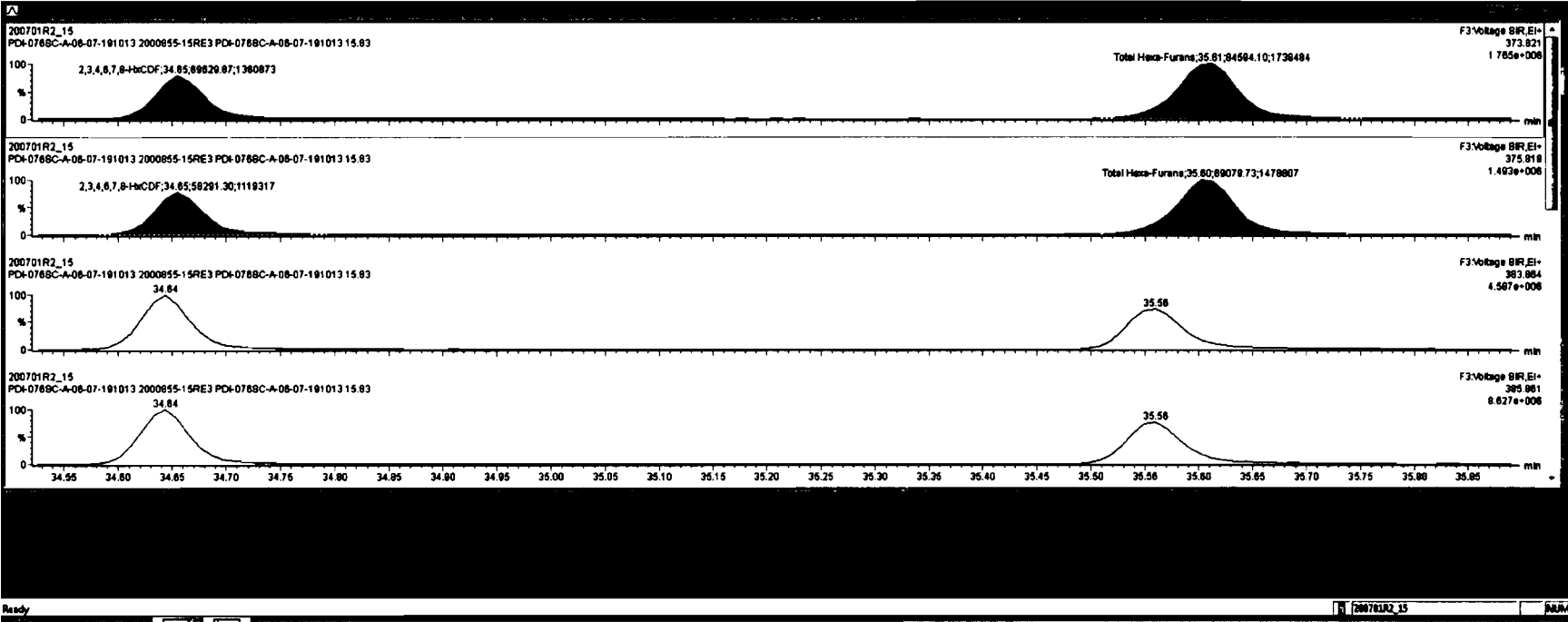
Total Hexa-Furane	32.77	4.825e4	4.059e4	1.21	NO	25.832	25.832
Total Hexa-Furane	32.84	1.941e5	1.822e5	1.20	NO	101.67	101.67
Total Hexa-Furane	33.28	3.388e3	2.825e3	1.19	NO	1.7670	1.7670





Total Tetra-Furans			0.7910	10.185	23.81		857	0.154	861
Total Penta-Furans			0.8625	10.185	27.04		897	0.0283	78.0
Total Hexa-Furans			0.8625	10.185	29.27		897	0.333	897

Total Hexa-Furans	32.77	4.825e4	4.898e4	1.21	NO	25.832	25.832
Total Hexa-Furans	32.84	1.941e5	1.822e5	1.20	NO	101.87	101.87
Total Hexa-Furans	33.29	3.389e3	2.826e3	1.19	NO	1.7870	1.7870

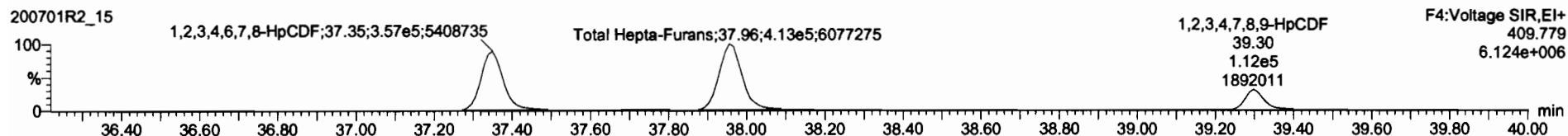
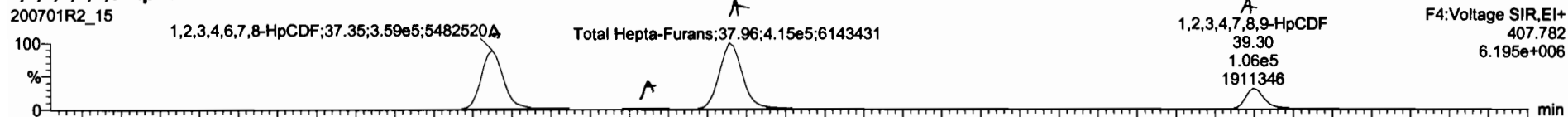


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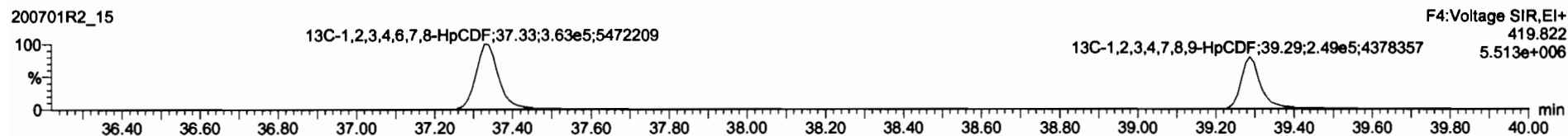
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Name: 200701R2_15, Date: 02-Jul-2020, Time: 13:03:07, ID: 2000855-15RE3 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

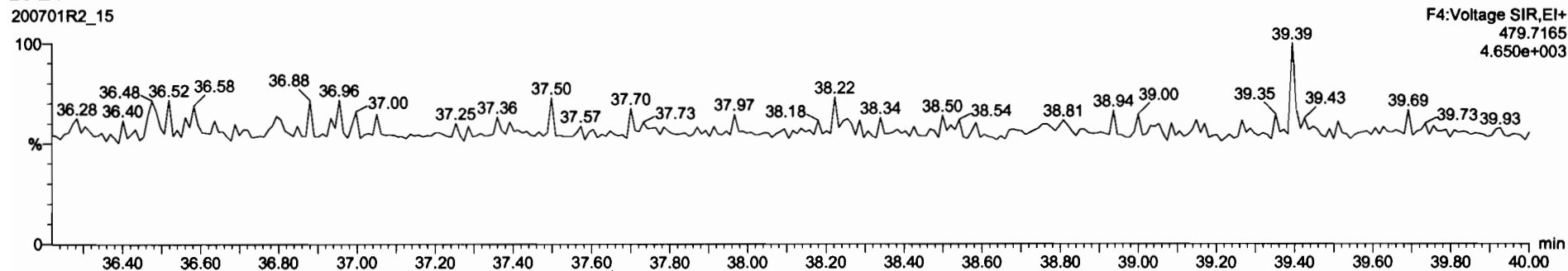
1,2,3,4,6,7,8-HpCDF

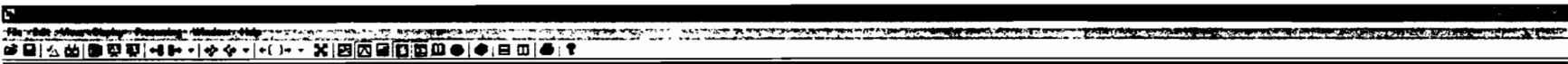


13C-1,2,3,4,6,7,8-HpCDF



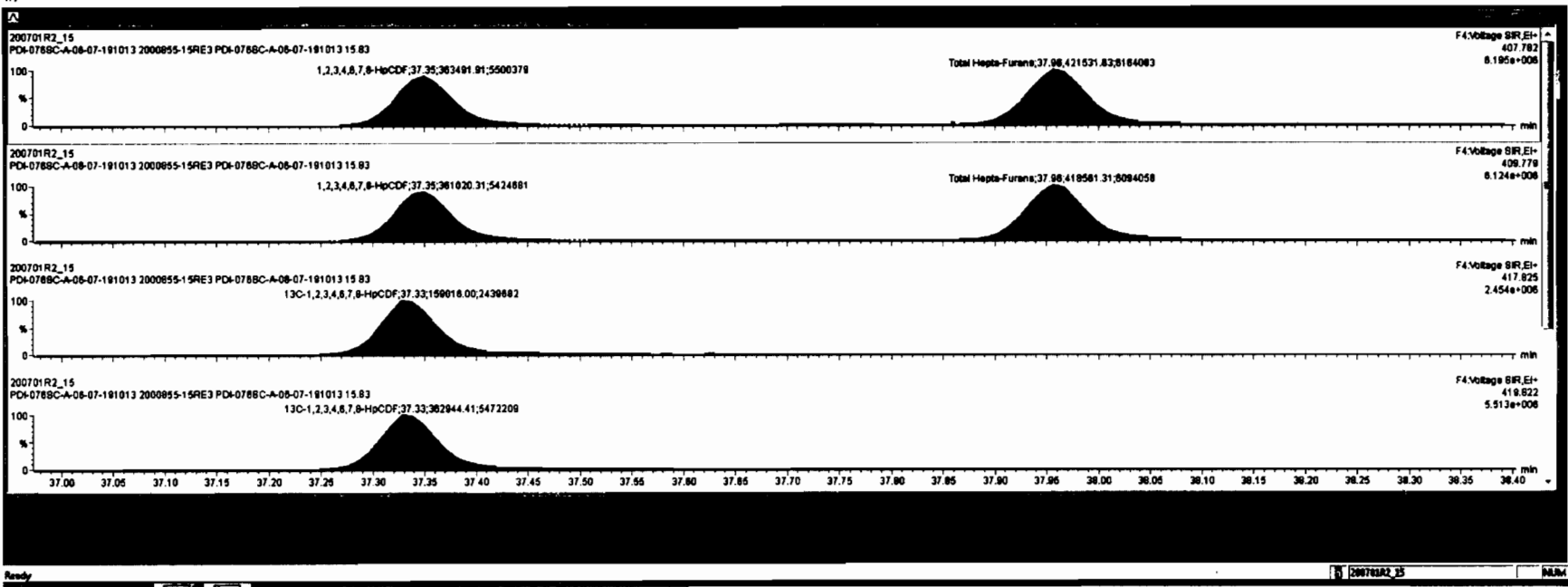
DPE4





Total Trieno-Furans			0.7910	10.185	23.81		827	0.154	891
1,4-Furc. Penta-Furans			0.8825	10.185	27.04		79.0	0.0283	79.0
Total Penta-Furans			0.8825	10.185	29.27		807	0.333	897
Total Hexa-Furans			0.8341	10.185	33.58		1180	0.367	1180

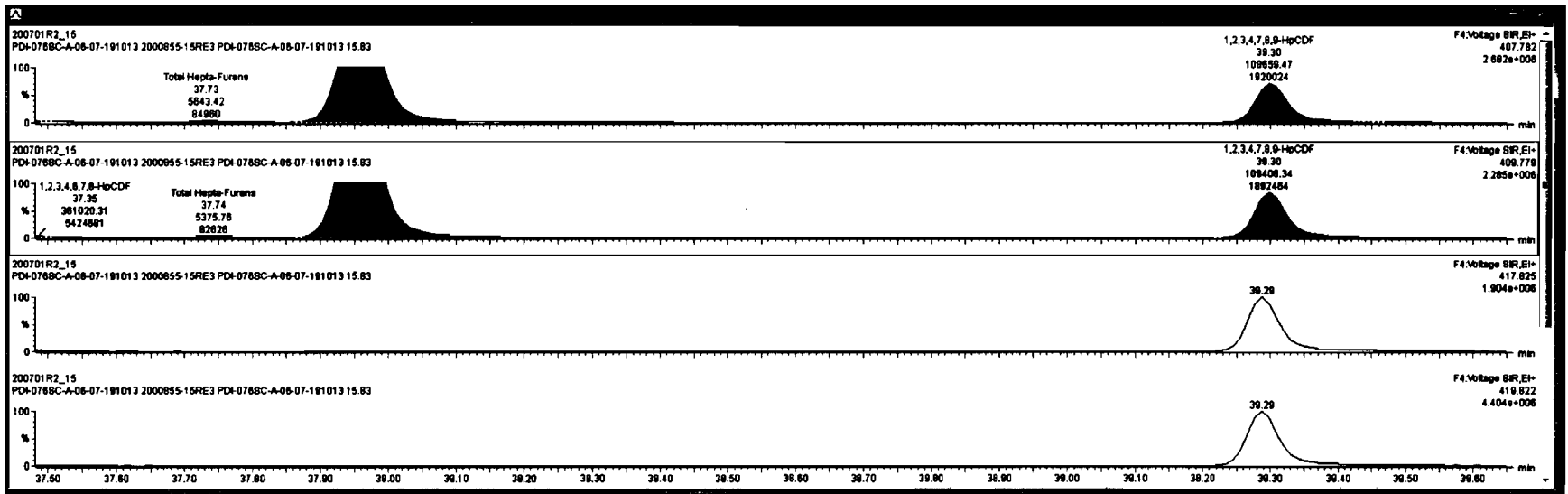
1,2,3,4,7,8-HpCDF	37.35	3.835e5	3.810e5	1.01	NO	312.08	312.08
Total Hepta-Furans	37.73	5.843e3	5.378e3	1.05	NO	5.8194	5.8194
Total Hepta-Furans	37.88	4.215e5	4.188e5	1.01	NO	428.34	428.34
1,2,3,4,7,8-HpCDF	38.30	1.087e5	1.084e5	0.98	NO	117.45	117.45

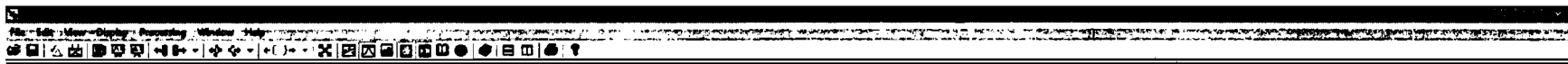




Total Tetra-Furans			0.7510	10.105	23.01		867	0.154	891
1st Func. Penta-Furans			0.8825	10.105	27.04		78.0	0.0280	78.0
Total Penta-Furans			0.8825	10.105	28.27		867	0.333	867
Total Hexa-Furans			0.8341	10.105	33.58		1180	0.367	1180

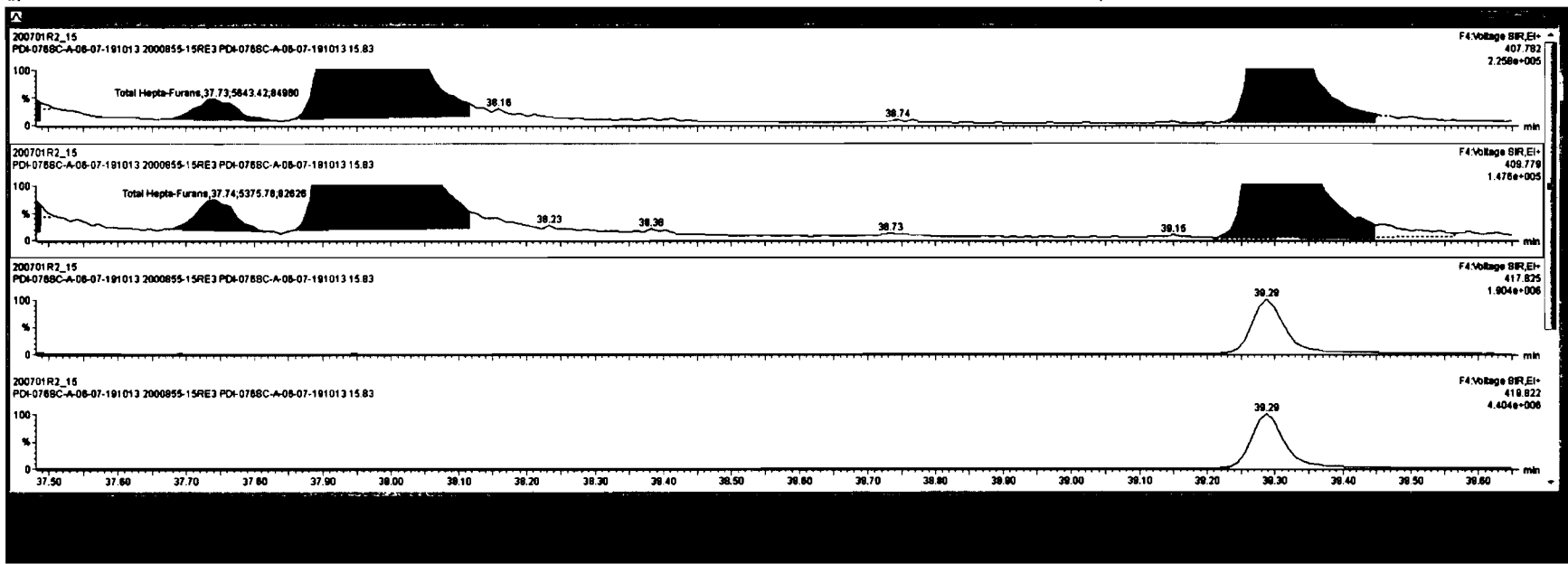
1,2,3,4,7,8-HpCDF	37.35	5.835e5	3.810e5	1.01	NO	312.08	312.08
Total Hepta-Furans	37.73	5.843e3	5.379e3	1.05	NO	5.8184	5.8184
Total Hepta-Furans	37.88	4.215e5	4.188e5	1.01	NO	428.34	428.34
1,2,3,4,7,8-HpCDF	38.30	1.087e5	1.084e5	0.90	NO	117.46	117.46





Total Tetra-Furans			0.7910	10.185	23.81			857		0.154	891
Total Penta-Furans			0.8825	10.185	27.04			79.0		0.2283	79.0
Total Hexa-Furans			0.8825	10.185	29.27			867		0.333	867
Total Hepta-Furans			0.8341	10.185	33.58			1180		0.357	1180

1,2,3,4,7,8-HxCDF	37.35	3.835e5	3.810e5	1.01	NO	312.08	312.08
Total Hepta-Furans	37.73	5.843e3	5.378e3	1.05	NO	5.8184	5.8184
Total Hepta-Furans	37.98	4.215e5	4.188e5	1.01	NO	428.34	428.34
1,2,3,4,7,8,9-HxCDF	38.30	1.087e5	1.084e5	0.98	NO	117.45	117.45



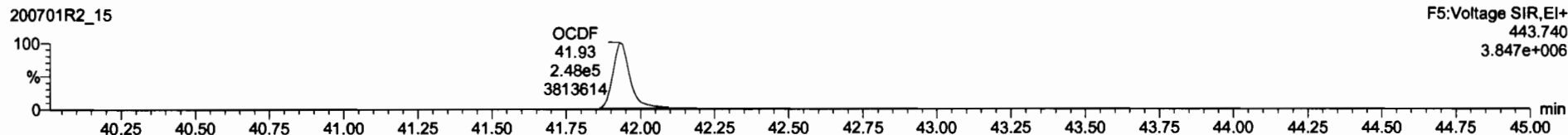
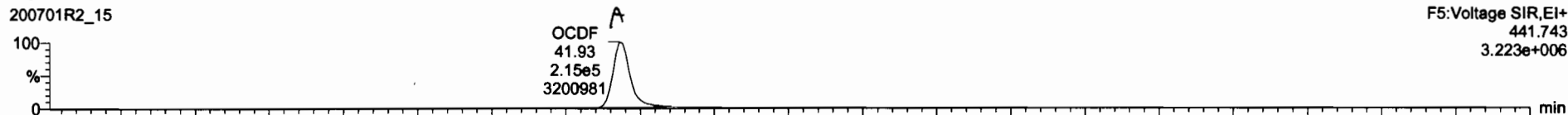
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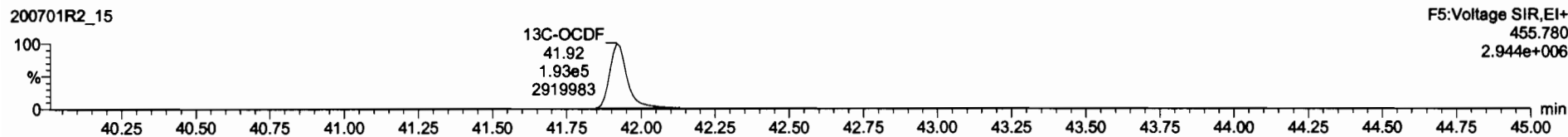
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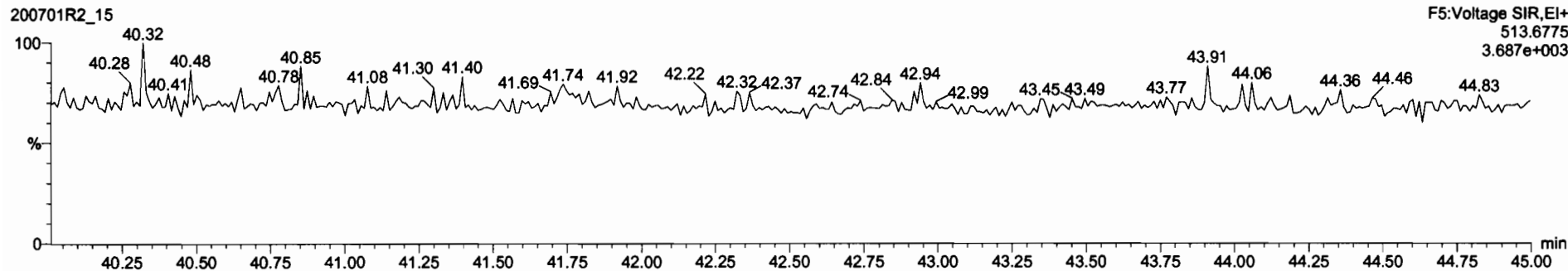
OCDF

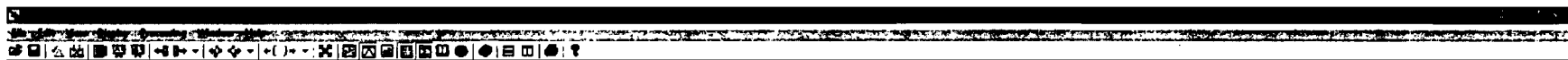


13C-OCDF



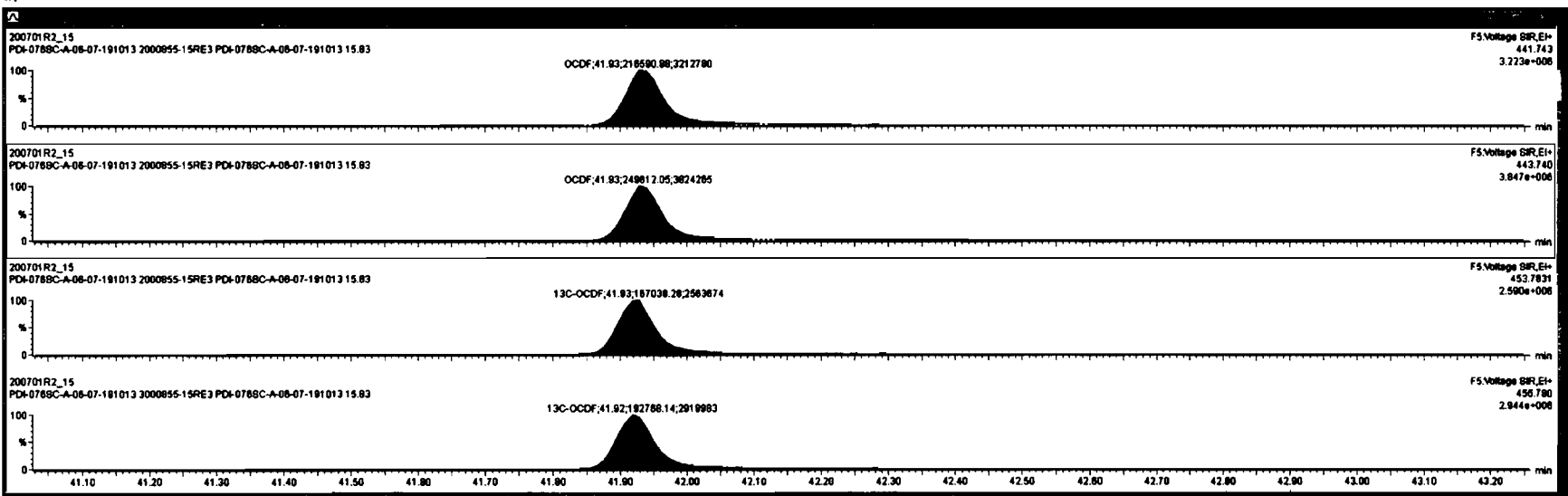
DPE5





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13C-1,2,3,7,8-PeCDD	7.48e5	0.83	NO	0.8480	10.185	31.70	31.42	1.219	214	108	0.251
13C-1,2,3,4,7,8-HxCDD	5.43e5	1.28	NO	0.7790	10.185	34.81	34.80	1.014	180	91.8	0.388

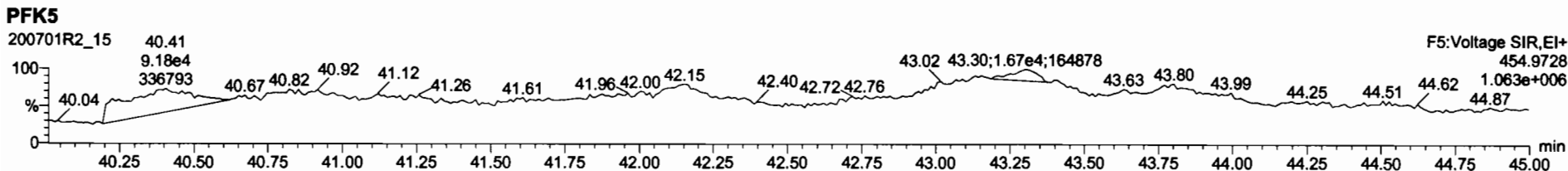
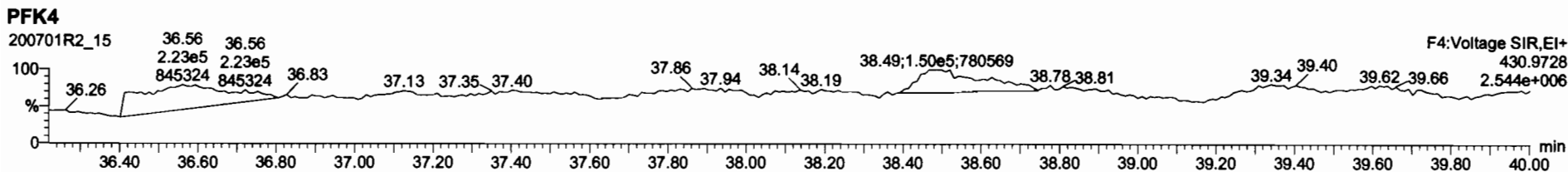
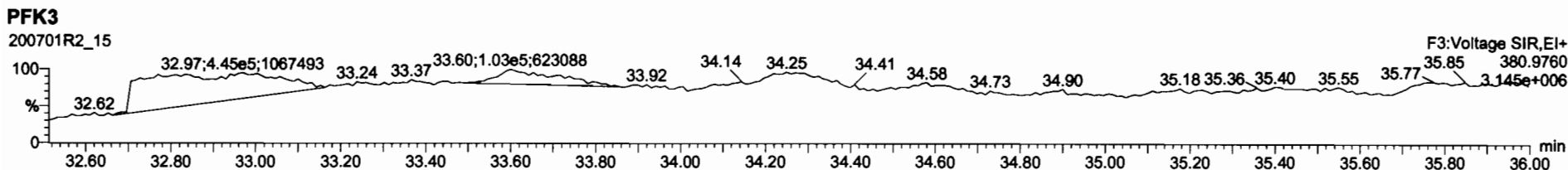
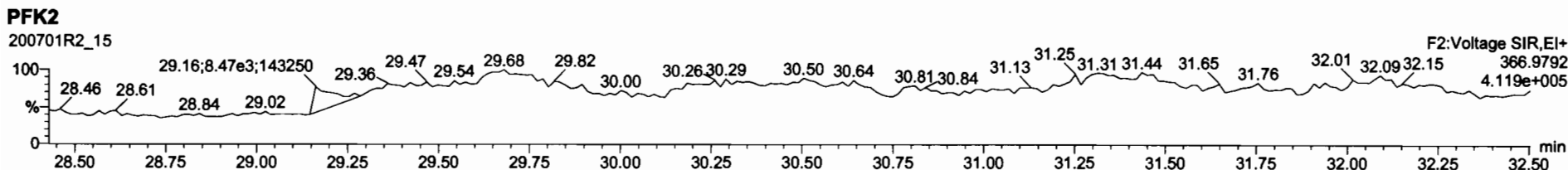
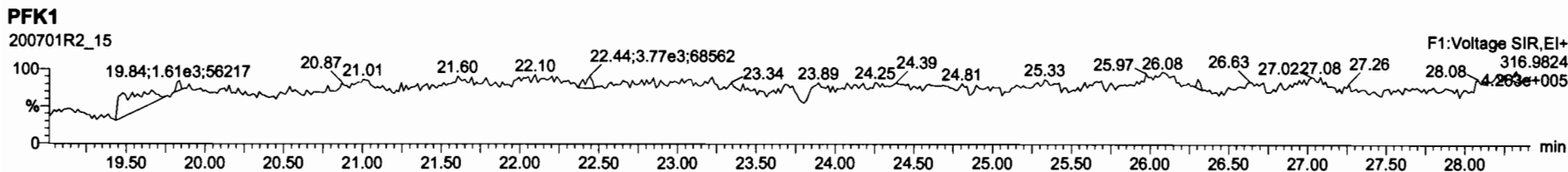
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Dataset: U:\VG12.PRO\Results\200705R4\200705R4-5.qld

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GRB 07/06/2020

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

M
7/9/20

Name: 200705R4_5, Date: 06-Jul-2020, Time: 04:41:28, ID: 2000855-15RE3@40X PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

7	OCDD	4.47e4	0.89	NO	0.914	10.185	41.833	41.82	1.000	1.000	5913.9 ✓	49.1	5910
24	13C-OCDD	3.25e3	1.00	NO	0.652	10.185	41.791	41.83	1.216	1.218	41.326	10.5	2.07
35	37Cl-2,3,7,8-TCDD	1.26e4			1.04	10.185	26.466	26.48	1.026	1.027	82.533	105	0.710
36	13C-1,2,3,4-TCDD	2.88e4	0.75	NO	1.00	10.185	25.740	25.80	1.000	1.000	196.37	100	3.40
37	13C-1,2,3,4-TCDF	4.48e4	0.76	NO	1.00	10.185	24.030	24.10	1.000	1.000	196.37	100	4.27
38	13C-1,2,3,4,6,9-HxCDF	2.37e4	0.50	NO	1.00	10.185	34.290	34.36	1.000	1.000	196.37	100	3.90

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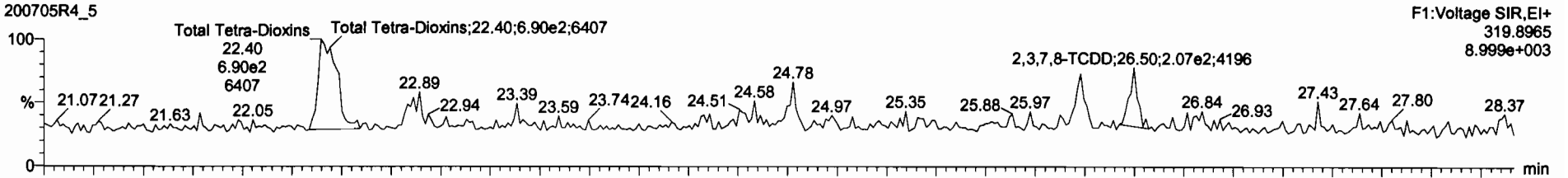
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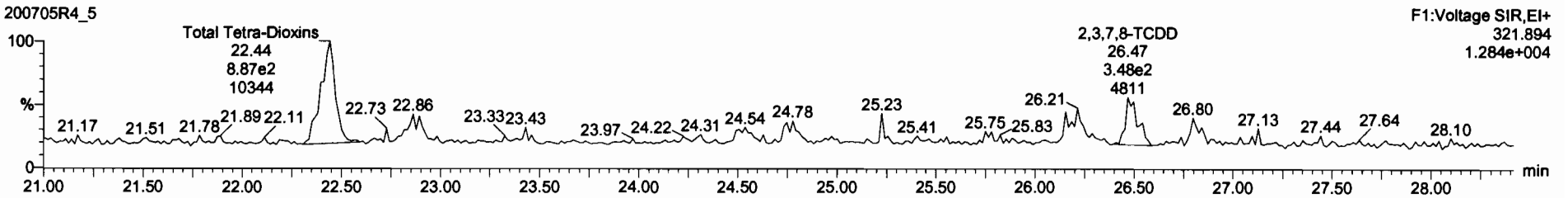
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2,3,7,8-TCDD

200705R4_5

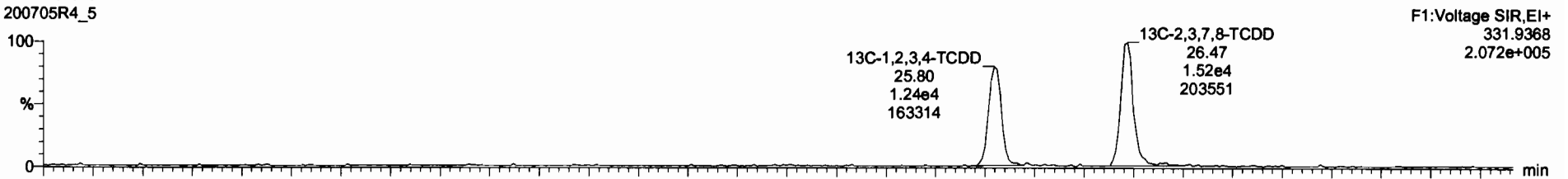


200705R4_5

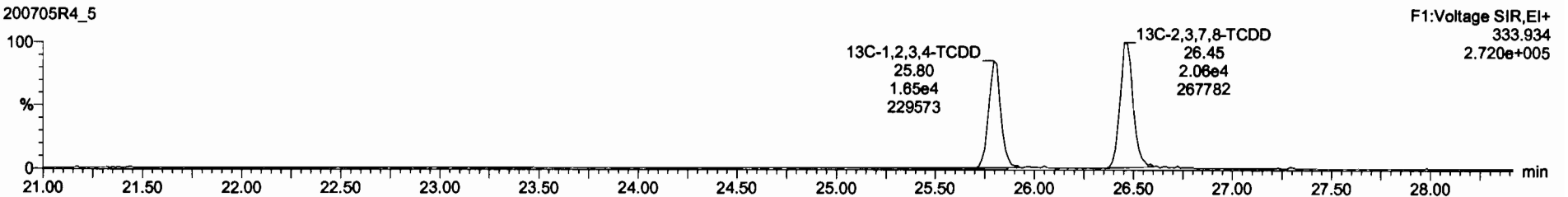


13C-2,3,7,8-TCDD

200705R4_5



200705R4_5



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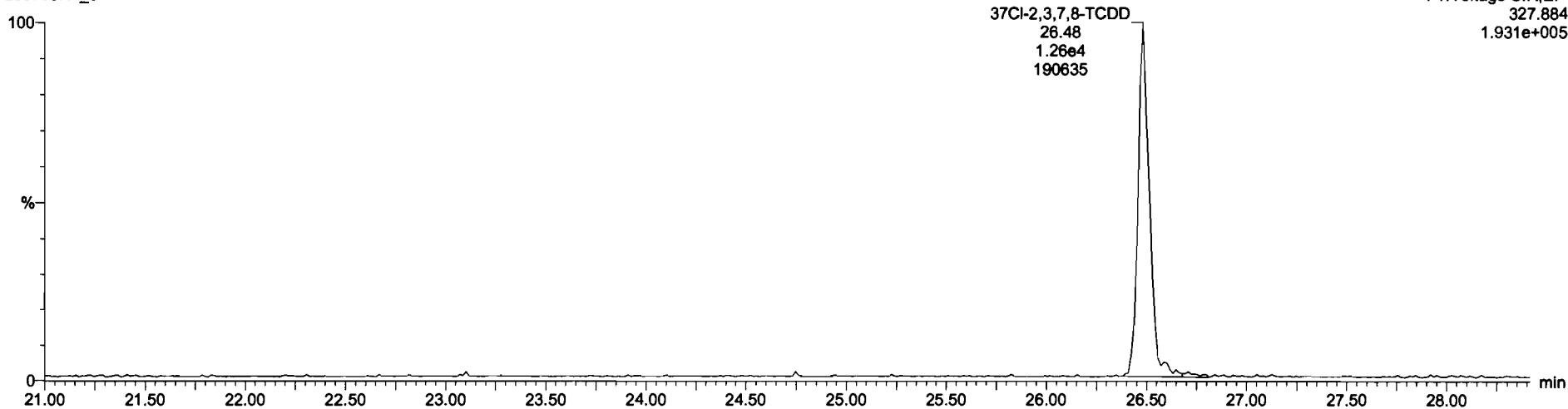
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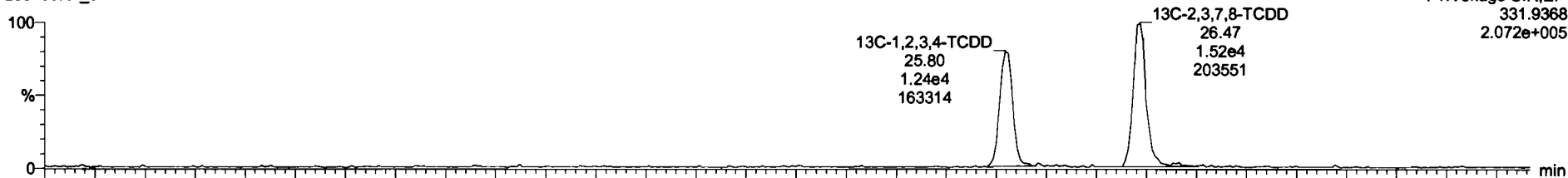
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200705R4_5

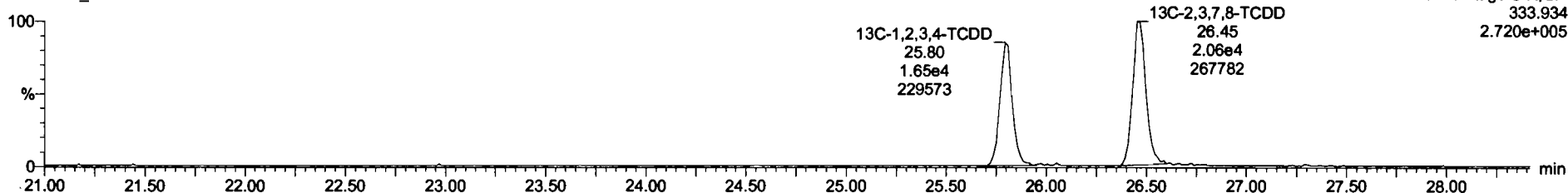


13C-1,2,3,4-TCDD

200705R4_5



200705R4_5

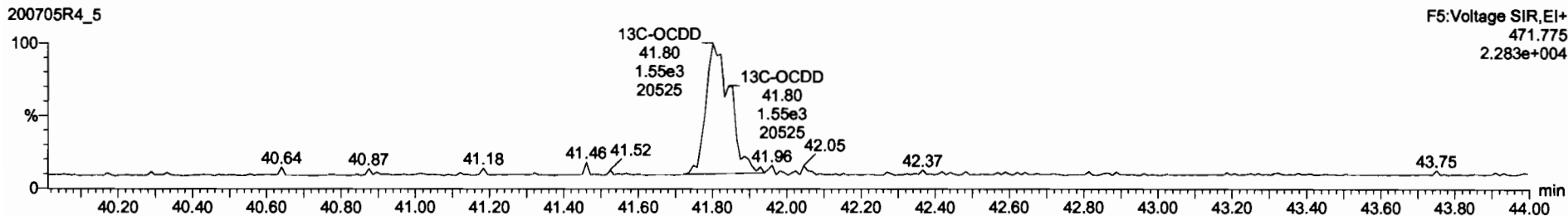
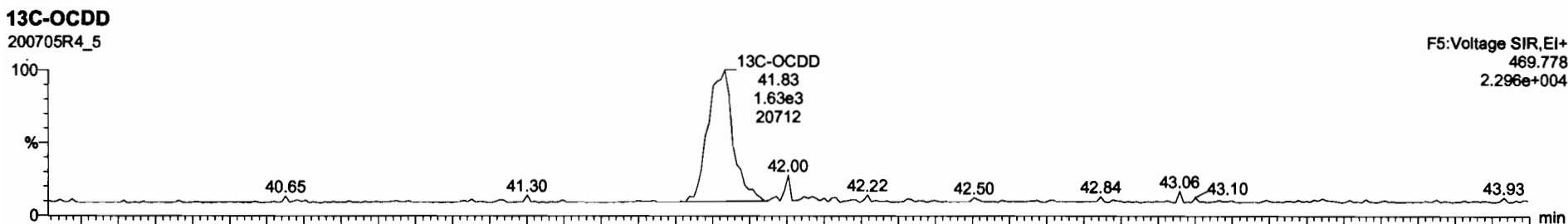
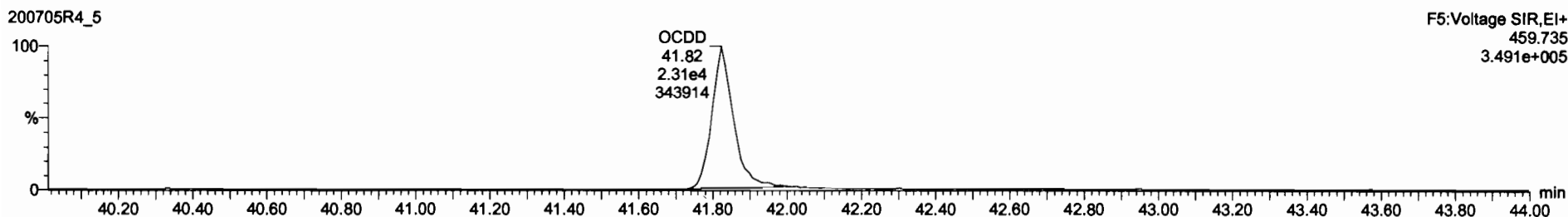
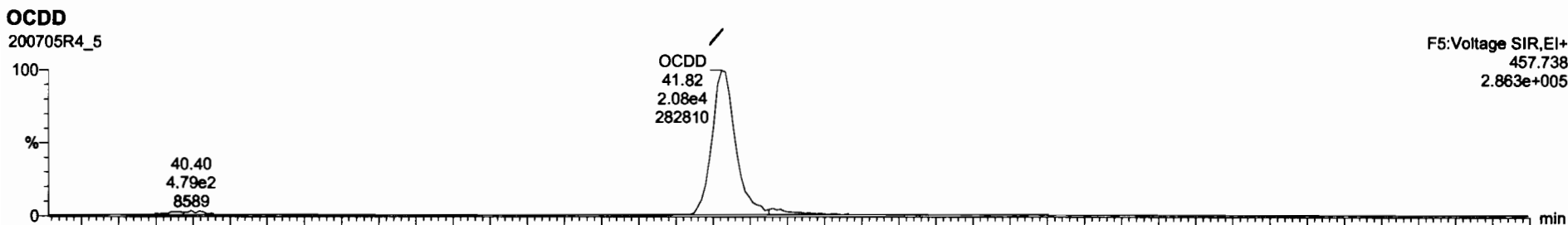


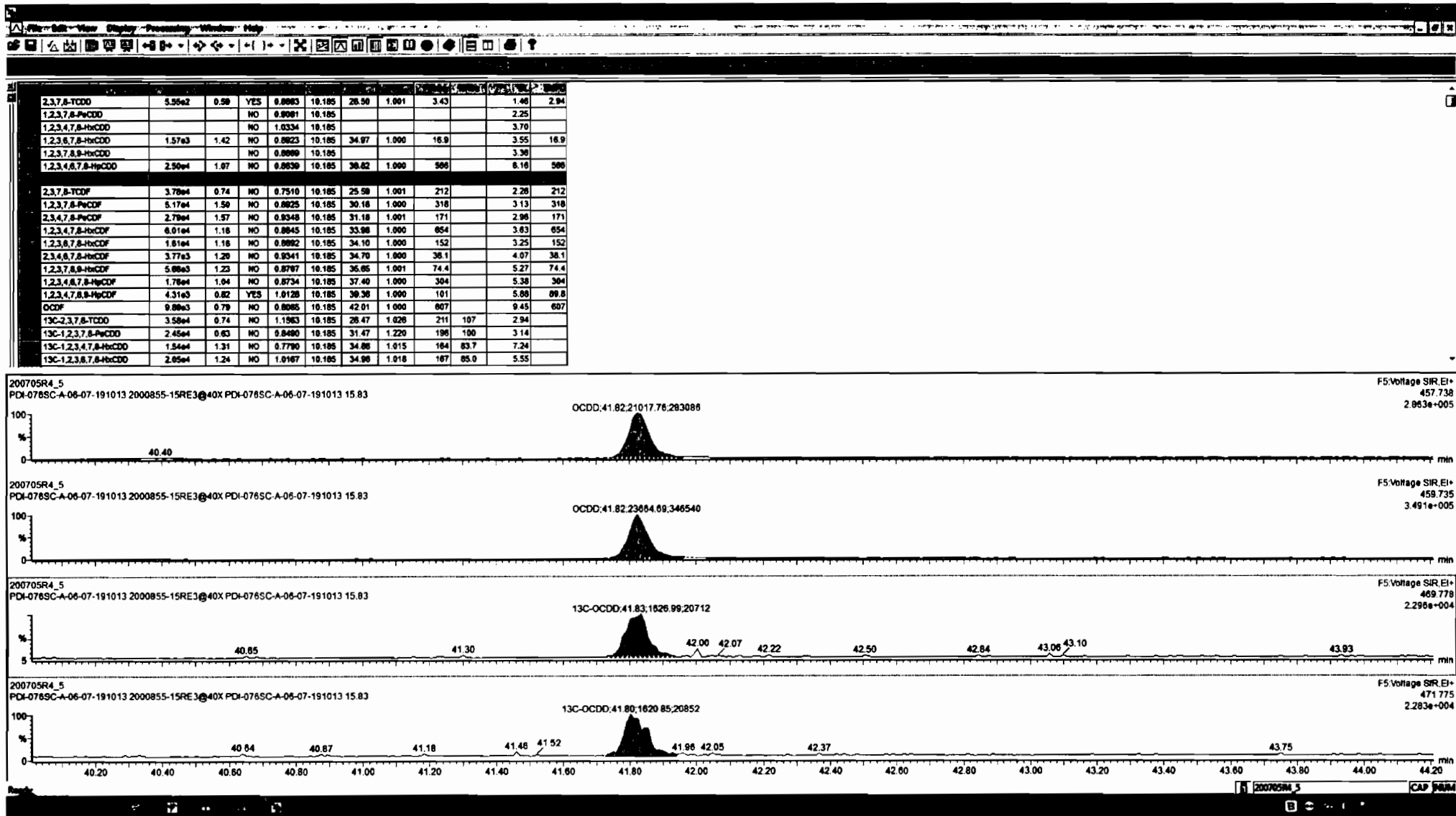
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Printed: Monday, July 06, 2020 12:33:00 PM Pacific Daylight Time

Name: 200705R4_5, Date: 06-Jul-2020, Time: 04:41:28, ID: 2000855-15RE3@40X PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013



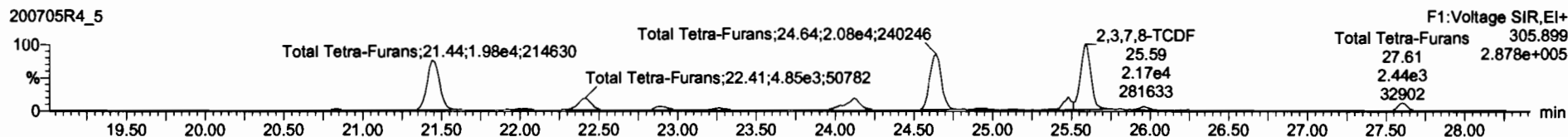
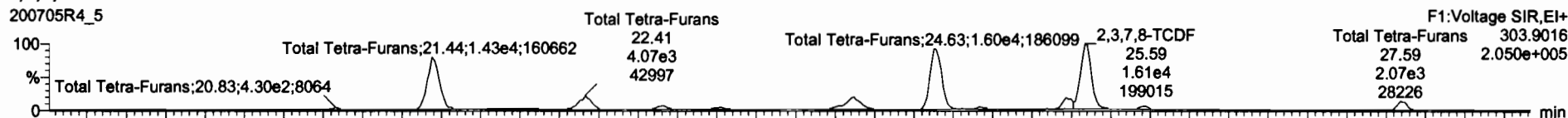


Dataset: U:\VG12.PRO\Results\200705R4\200705R4-5.qld

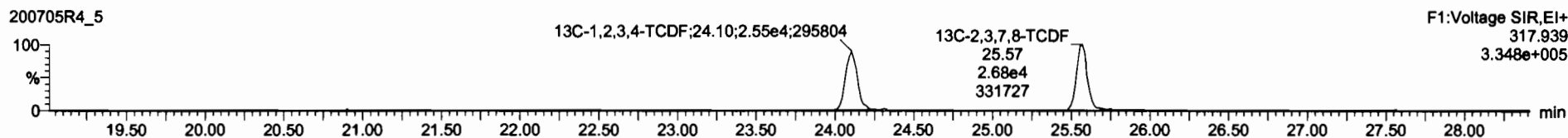
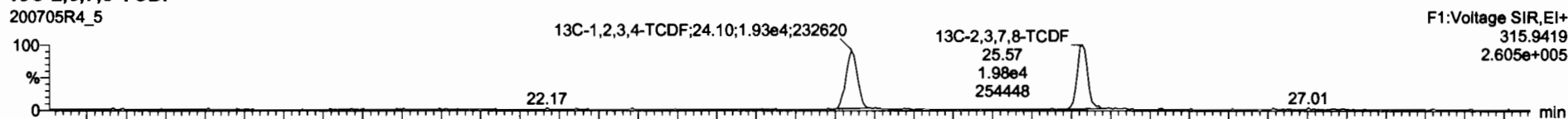
Last Altered: Monday, July 06, 2020 12:31:46 PM Pacific Daylight Time
Printed: Monday, July 06, 2020 12:33:00 PM Pacific Daylight Time

Name: 200705R4_5, Date: 06-Jul-2020, Time: 04:41:28, ID: 2000855-15RE3@40X PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

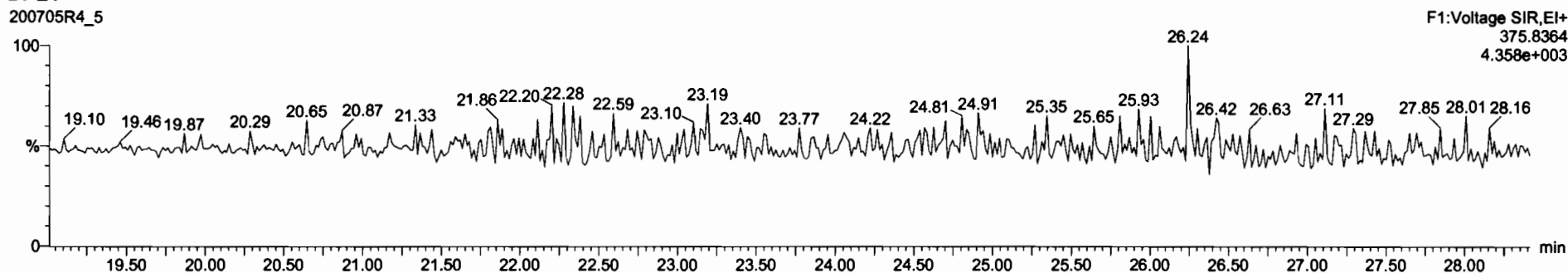
2,3,7,8-TCDF



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



DPE1

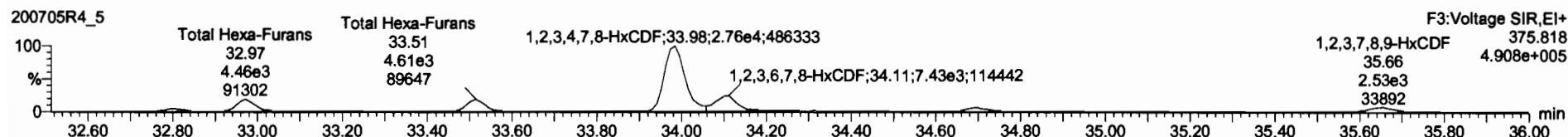
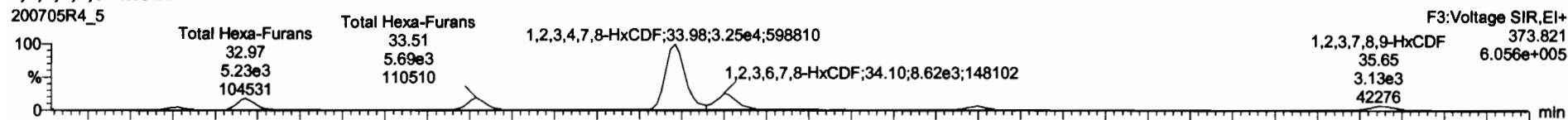


Dataset: U:\VG12.PRO\Results\200705R4\200705R4-5.qld

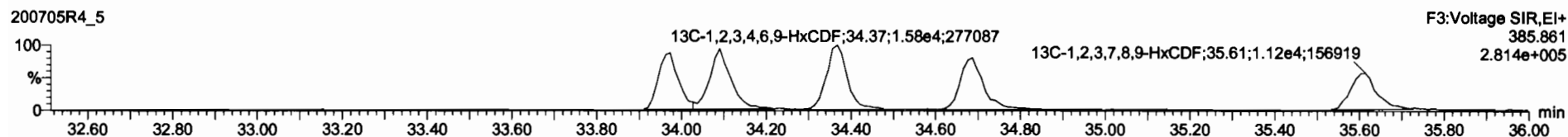
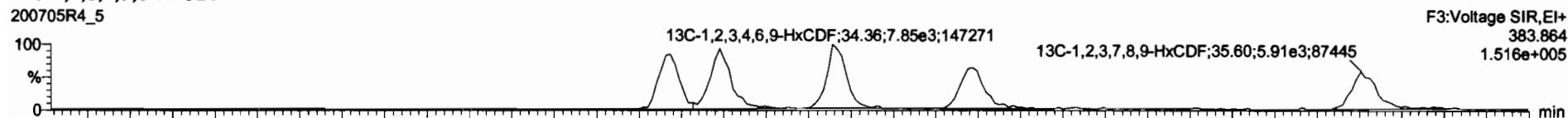
Last Altered: Monday, July 06, 2020 12:31:46 PM Pacific Daylight Time
Printed: Monday, July 06, 2020 12:33:00 PM Pacific Daylight Time

Name: 200705R4_5, Date: 06-Jul-2020, Time: 04:41:28, ID: 2000855-15RE3@40X PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

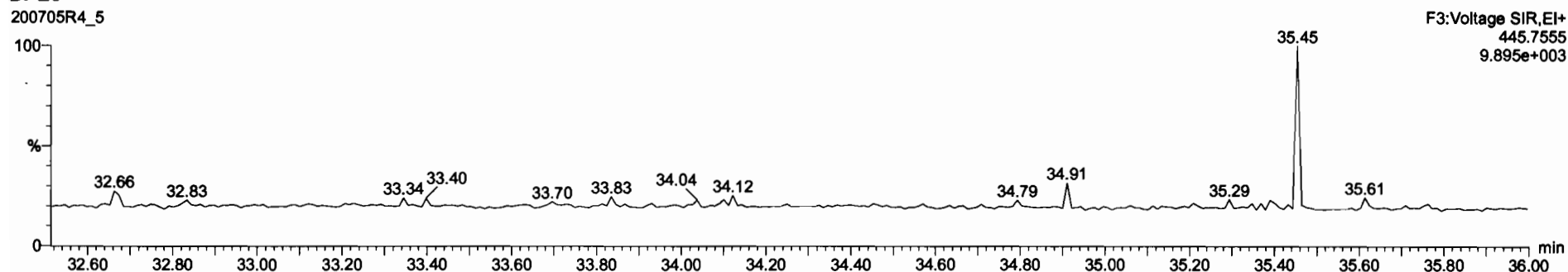
1,2,3,4,7,8-HxCDF



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



DPE3



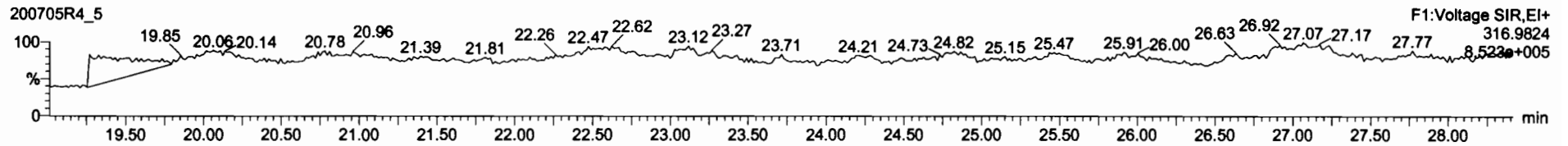
Dataset: U:\VG12.PRO\Results\200705R4\200705R4-5.qld

Last Altered: Monday, July 06, 2020 12:31:46 PM Pacific Daylight Time

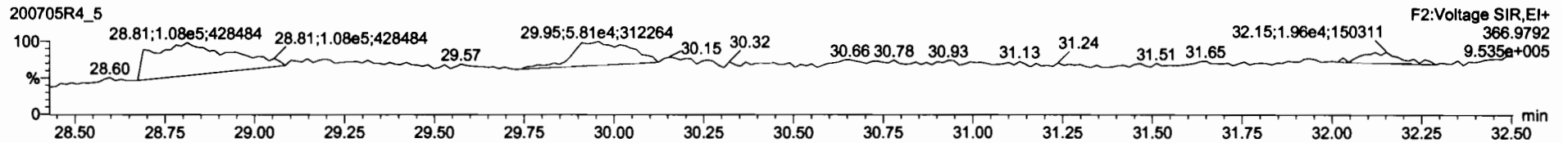
Printed: Monday, July 06, 2020 12:33:00 PM Pacific Daylight Time

Name: 200705R4_5, Date: 06-Jul-2020, Time: 04:41:28, ID: 2000855-15RE3@40X PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

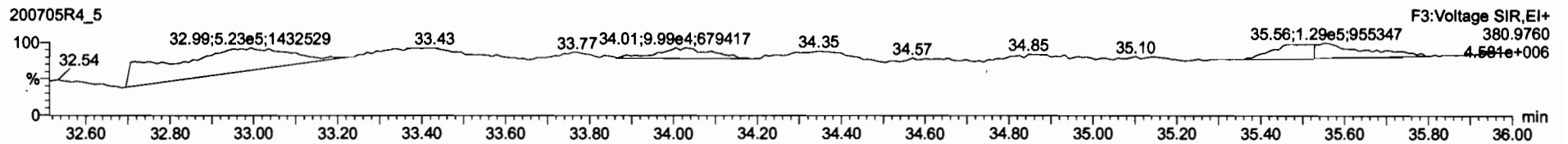
PFK1



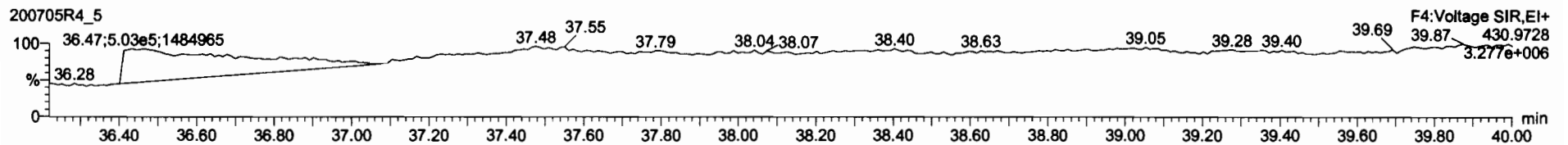
PFK2



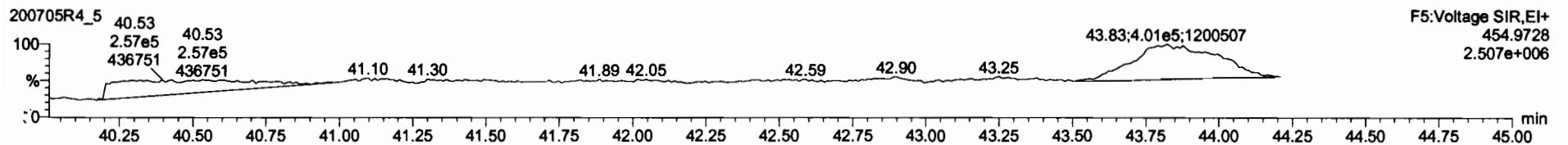
PFK3



PFK4



PFK5



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200708D1\200708D1_19.qld

Last Altered: Thursday, July 09, 2020 10:00:10 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:01:22 Pacific Daylight Time

DB 7/9/20

*ML
7/9/20*

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_19, Date: 08-Jul-2020, Time: 19:40:02, ID: 2000855-15RE4 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

	Area	RA	Wt	RR	Wt	Area	Area	Area	Area	Area	Area	Area	Area
1	2,3,7,8-TCDF	2.49e5	0.77	NO	0.982	10.185	16.936	16.95	1.000	1.001	200.56	0.417	201
2	13C-2,3,7,8-TCDF	2.48e5	0.75	NO	1.08	10.185	16.894	16.94	1.133	1.135	197.74	101	0.738
3	13C-1,2,3,4-TCDF	2.28e5	0.77	NO	1.00	10.185	15.060	14.92	1.000	1.000	196.37	100	0.799

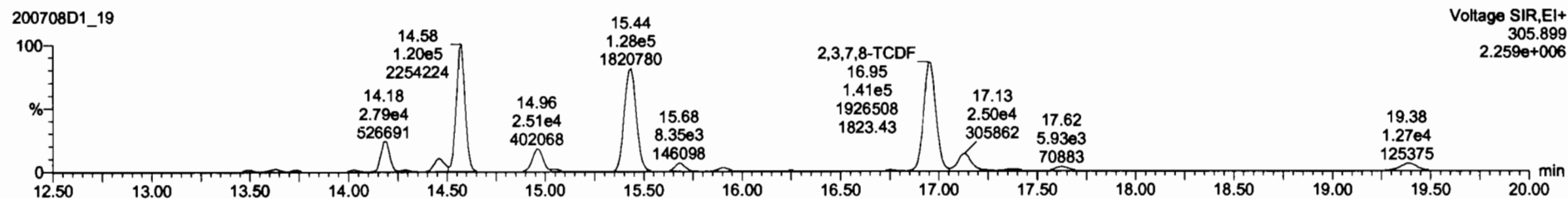
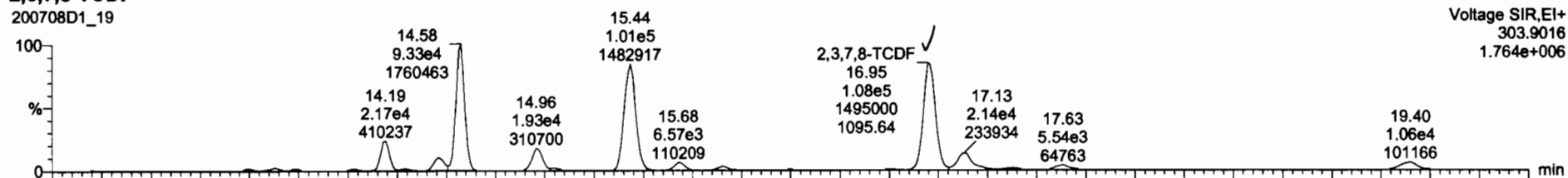
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_19.qld

Last Altered: Thursday, July 09, 2020 10:00:10 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:01:40 Pacific Daylight Time

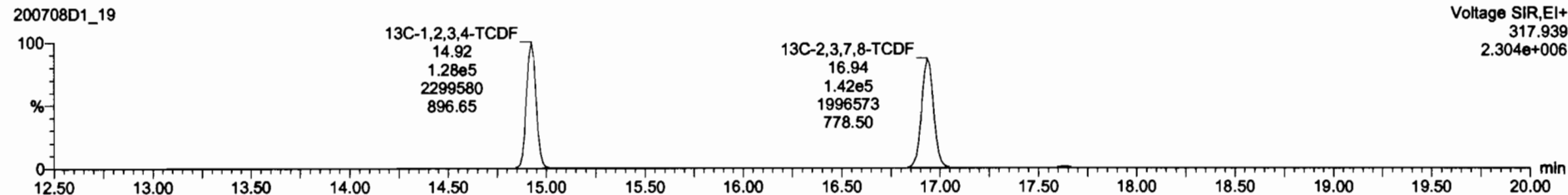
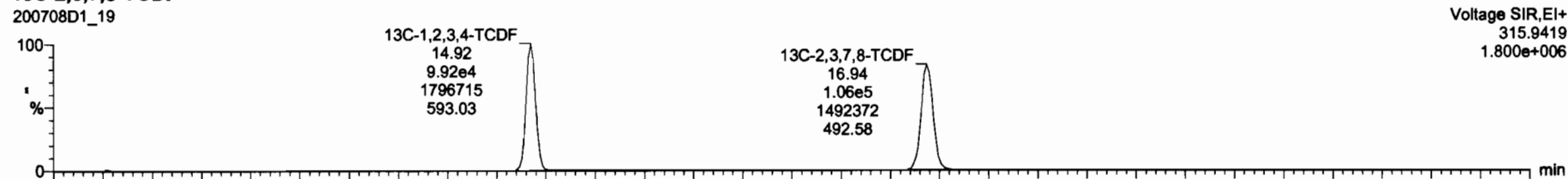
Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52
Calibration: U:\VG7.PRO\CurveDB\ldb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1_19, Date: 08-Jul-2020, Time: 19:40:02, ID: 2000855-15RE4 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

2,3,7,8-TCDF



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



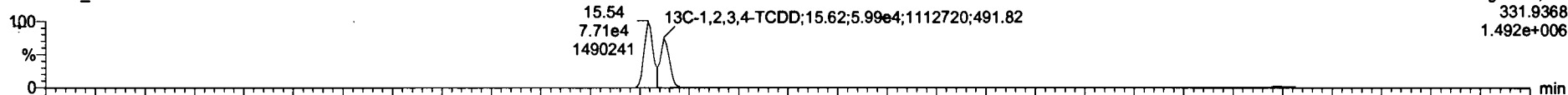
Dataset: U:\VG7.PRO\Results\200708D1\200708D1_19.qld

Last Altered: Thursday, July 09, 2020 10:00:10 Pacific Daylight Time
Printed: Thursday, July 09, 2020 10:01:40 Pacific Daylight Time

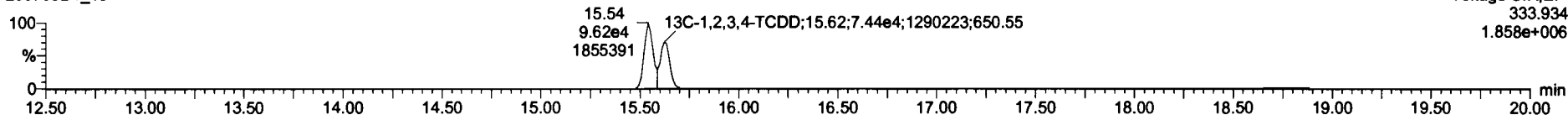
Name: 200708D1_19, Date: 08-Jul-2020, Time: 19:40:02, ID: 2000855-15RE4 PDI-076SC-A-06-07-191013 15.83, Description: PDI-076SC-A-06-07-191013

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

200708D1_19

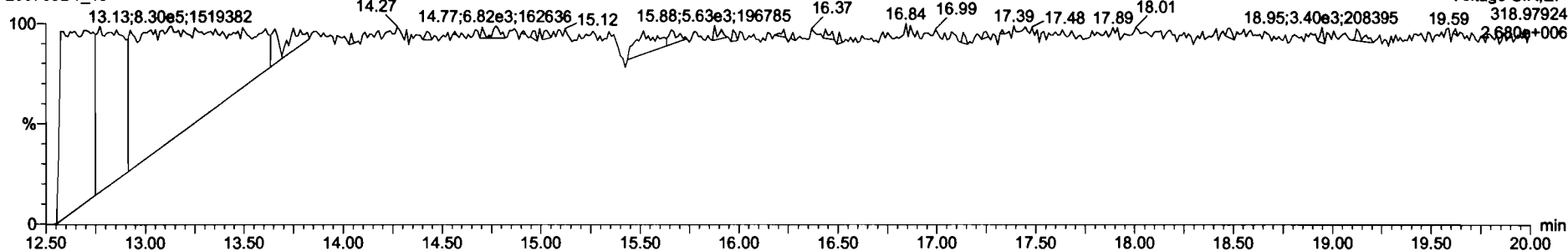


200708D1_19



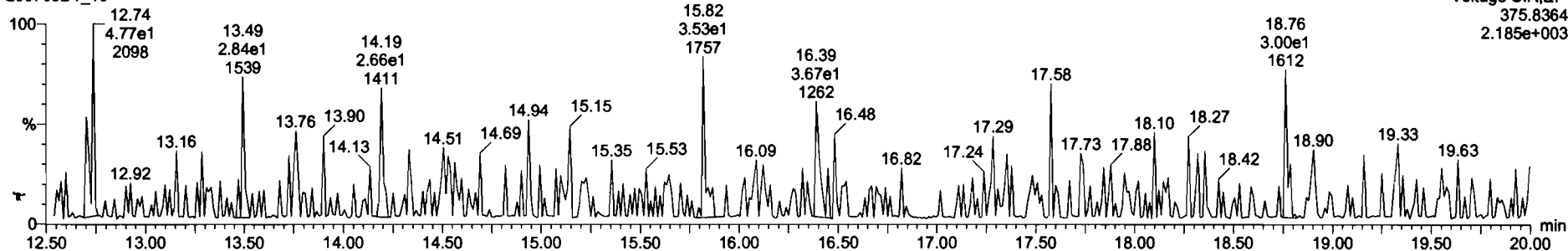
PFK1

200708D1_19



DPE1

200708D1_19



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200601R3-1

Reviewed By: C1 06/02/2020
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 checked="" type="checkbox"/>	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"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8280 CS1 End Standard:		
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"/>
(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?	<u>GRB</u>	<input checked="" type="checkbox"/>			
Run Log:					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
- Bottle position verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-2.qld

Last Altered: Tuesday, June 02, 2020 07:01:32 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 07:02:10 Pacific Daylight Time

GRB 06/02/2020

C1 06/02/2020

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

Name: 200601R3_2, Date: 01-Jun-2020, Time: 15:51:44, ID: ST200601R3_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	6.48e4	7.35e5	0.75	NO	0.888	26.53	26.53	NO	1.001	1.001	9.9236	99.2	NO
2	2 1,2,3,7,8-PeCDD	2.13e5	4.66e5	0.61	NO	0.908	31.49	31.48	NO	1.001	1.000	50.335	101	NO
3	3 1,2,3,4,7,8-HxCDD	1.79e5	3.36e5	1.24	NO	1.03	34.85	34.85	NO	1.000	1.000	51.741	103	NO
4	4 1,2,3,6,7,8-HxCDD	1.88e5	4.29e5	1.27	NO	0.892	34.94	34.95	NO	1.000	1.000	49.230	98.5	NO
5	5 1,2,3,7,8,9-HxCDD	1.73e5	3.91e5	1.24	NO	0.887	35.23	35.23	NO	1.000	1.000	49.782	99.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.17e5	2.67e5	1.00	NO	0.864	38.77	38.77	NO	1.000	1.000	50.913	102	NO
7	7 OCDD	2.30e5	4.86e5	0.88	NO	0.914	41.72	41.73	NO	1.000	1.000	103.77	104	NO
8	8 2,3,7,8-TCDF	7.67e4	1.02e6	0.74	NO	0.751	25.64	25.63	NO	1.001	1.001	10.016	100	NO
9	9 1,2,3,7,8-PeCDF	3.44e5	7.35e5	1.52	NO	0.893	30.21	30.20	NO	1.001	1.001	52.411	105	NO
10	10 2,3,4,7,8-PeCDF	3.48e5	7.25e5	1.61	NO	0.935	31.19	31.18	NO	1.001	1.000	51.377	103	NO
11	11 1,2,3,4,7,8-HxCDF	2.07e5	4.55e5	1.20	NO	0.884	33.95	33.96	NO	1.000	1.000	51.444	103	NO
12	12 1,2,3,6,7,8-HxCDF	2.42e5	5.37e5	1.21	NO	0.889	34.09	34.09	NO	1.000	1.000	50.749	101	NO
13	13 2,3,4,6,7,8-HxCDF	2.24e5	4.68e5	1.21	NO	0.934	34.70	34.68	NO	1.001	1.000	51.353	103	NO
14	14 1,2,3,7,8,9-HxCDF	1.73e5	3.90e5	1.21	NO	0.871	35.58	35.59	NO	1.000	1.000	50.877	102	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.51e5	3.30e5	1.00	NO	0.873	37.39	37.36	NO	1.001	1.000	52.249	104	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.11e5	2.12e5	1.00	NO	1.01	39.30	39.31	NO	1.000	1.000	51.805	104	NO
17	17 OCDF	2.49e5	6.04e5	0.89	NO	0.806	41.91	41.92	NO	1.000	1.000	102.36	102	NO
18	18 13C-2,3,7,8-TCDD	7.35e5	6.08e5	0.79	NO	1.16	26.54	26.50	NO	1.026	1.025	104.62	105	NO
19	19 13C-1,2,3,7,8-PeCDD	4.66e5	6.08e5	0.64	NO	0.849	31.73	31.47	NO	1.227	1.217	90.229	90.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.36e5	4.62e5	1.30	NO	0.779	34.84	34.84	NO	1.014	1.014	93.248	93.2	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.29e5	4.62e5	1.30	NO	1.02	34.95	34.94	NO	1.017	1.017	91.255	91.3	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.91e5	4.62e5	1.27	NO	0.903	35.23	35.22	NO	1.025	1.025	93.786	93.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.67e5	4.62e5	1.04	NO	0.689	38.75	38.76	NO	1.128	1.128	83.855	83.9	NO
24	24 13C-OCDD	4.86e5	4.62e5	0.86	NO	0.652	41.77	41.72	NO	1.216	1.214	161.31	80.7	NO
25	25 13C-2,3,7,8-TCDF	1.02e6	9.56e5	0.78	NO	1.06	25.58	25.62	NO	0.989	0.991	100.71	101	NO
26	26 13C-1,2,3,7,8-PeCDF	7.35e5	9.56e5	1.63	NO	0.838	30.11	30.18	NO	1.165	1.167	91.676	91.7	NO
27	27 13C-2,3,4,7,8-PeCDF	7.25e5	9.56e5	1.62	NO	0.817	31.06	31.16	NO	1.202	1.205	92.849	92.8	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.55e5	4.62e5	0.51	NO	1.01	33.97	33.95	NO	0.989	0.988	97.708	97.7	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.37e5	4.62e5	0.50	NO	1.17	34.10	34.08	NO	0.992	0.992	99.567	99.6	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.68e5	4.62e5	0.50	NO	1.02	34.67	34.67	NO	1.009	1.009	99.076	99.1	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.90e5	4.62e5	0.50	NO	0.860	35.57	35.58	NO	1.035	1.036	98.285	98.3	NO

Dataset: U:\VG12.PRO\Results\200601R3\200601R3-2.qld

Last Altered: Tuesday, June 02, 2020 07:01:32 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:02:10 Pacific Daylight Time

Name: 200601R3_2, Date: 01-Jun-2020, Time: 15:51:44, ID: ST200601R3_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	3.30e5	4.62e5	0.43	NO	0.774	37.32	37.35	NO	1.086	1.087	92.289	92.3	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.12e5	4.62e5	0.42	NO	0.521	39.35	39.30	NO	1.145	1.144	88.147	88.1	NO
34	34 13C-OCDF	6.04e5	4.62e5	0.87	NO	0.746	41.95	41.91	NO	1.221	1.220	175.15	87.6	NO
35	35 37Cl-2,3,7,8-TCDD	6.88e4	6.08e5			1.04	26.57	26.53	NO	1.028	1.026	10.924	109	NO
36	36 13C-1,2,3,4-TCDD	6.08e5	6.08e5	0.82	NO	1.00	25.89	25.85	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	9.56e5	9.56e5	0.78	NO	1.00	24.36	24.16	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.62e5	4.62e5	0.50	NO	1.00	34.42	34.36	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 07:08:48 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 07:12:18 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	200601R3_1	SOLVENT BLANK	01-Jun-20	15:05:30
2	200601R3_2	ST200601R3_1 1613 CS3 19L2305	01-Jun-20	15:51:44
3	200601R3_3	B0D0167-BS1 OPR 10	01-Jun-20	16:37:57
4	200601R3_4	SOLVENT BLANK	01-Jun-20	17:24:09
5	200601R3_5	B0D0167-BLK1 Method Blank 10	01-Jun-20	18:10:21
6	200601R3_6	B0D0167-DUP1 Duplicate 11.77	01-Jun-20	18:56:32
7	200601R3_7	2000855-01 PDI-047SC-A-04-05-191001 11.86	01-Jun-20	19:42:44
8	200601R3_8	2000855-02 PDI-047SC-A-05-06-191001 12.48	01-Jun-20	20:28:57
9	200601R3_9	2000855-03 PDI-047SC-A-06-07-191001 11.57	01-Jun-20	21:15:08
10	200601R3_10	2000855-04 PDI-047SC-A-07-08-191001 13.16	01-Jun-20	22:01:20
11	200601R3_11	2000855-05 PDI-049SC-A-08-09-191015 14.33	01-Jun-20	22:47:34
12	200601R3_12	2000855-06 PDI-049SC-A-09-10-191015 12.72	01-Jun-20	23:33:45
13	200601R3_13	2000855-07 PDI-049SC-A-10-11-191015 15.02	02-Jun-20	00:19:57
14	200601R3_14	2000855-08 PDI-049SC-A-11-12-191015 13.96	02-Jun-20	01:06:09
15	200601R3_15	2000855-09 PDI-057SC-A-09-10-191023 13.78	02-Jun-20	01:52:21
16	200601R3_16	2000855-10 PDI-057SC-A-10-11-191023 14.54	02-Jun-20	02:38:32
17	200601R3_17	2000855-11 PDI-057SC-A-11-12-191023 13.63	02-Jun-20	03:24:43

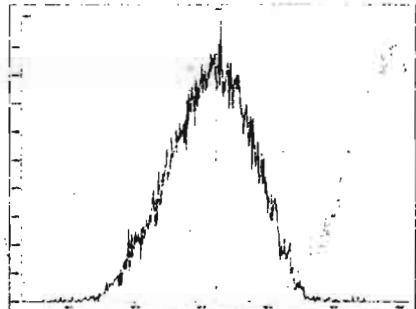
Experiment Calibration Report

MassLynx 4.1 SCN815

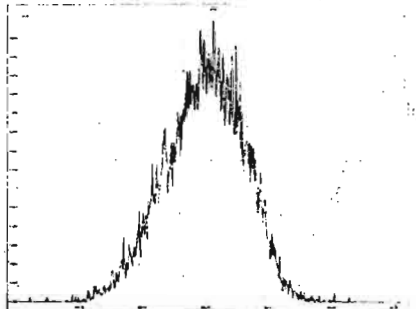
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, June 01, 2020 15:02:54 Pacific Daylight Time

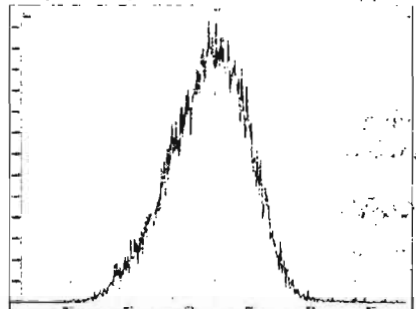
M 292.9824 R 10459



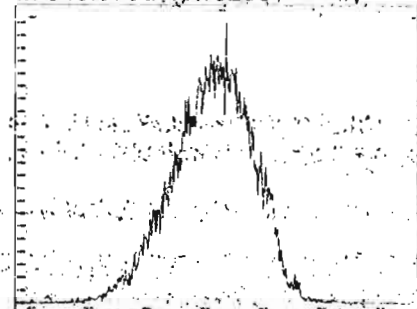
M 304.9824 R 11257



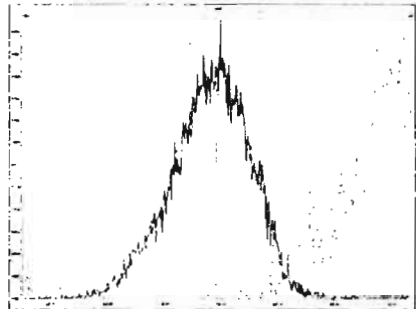
M 318.9792 R 10330



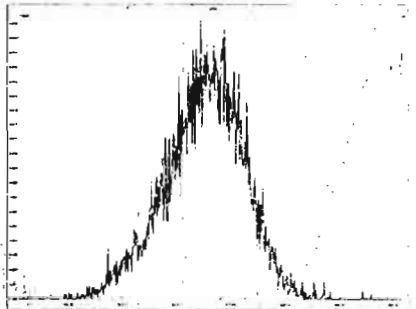
M 330.9792 R 10206



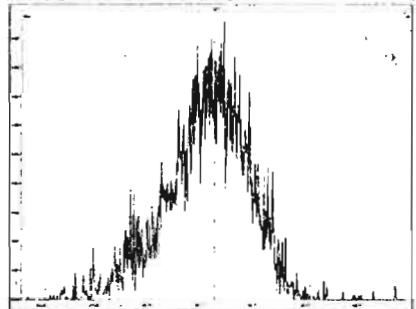
M 342.9792 R 10593



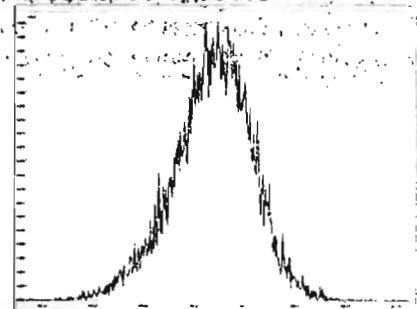
M 354.9792 R 11164



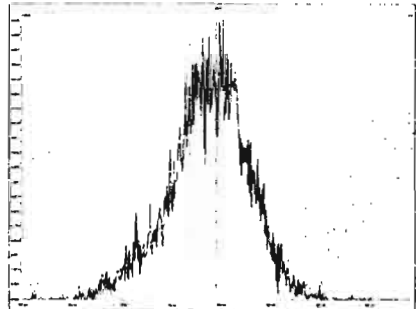
M 366.9792 R 11364



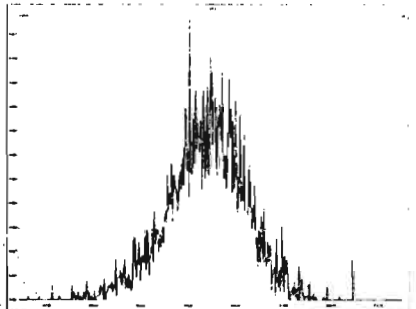
M 380.9760 R 10416



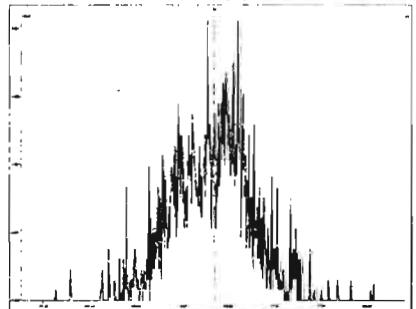
M 392.9760 R 11906



M 404.9760 R 11210



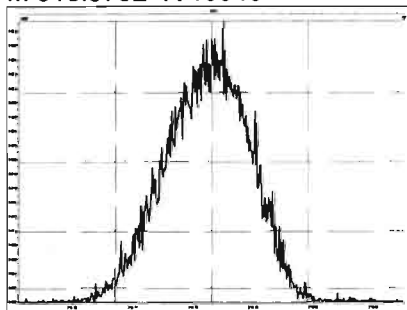
M 416.9760 R 12951



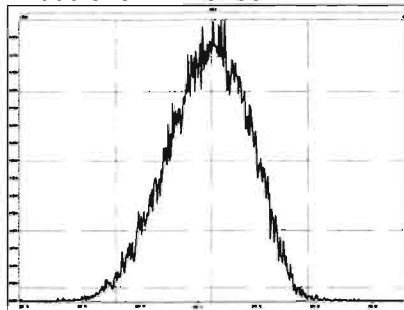
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, June 01, 2020 15:03:23 Pacific Daylight Time

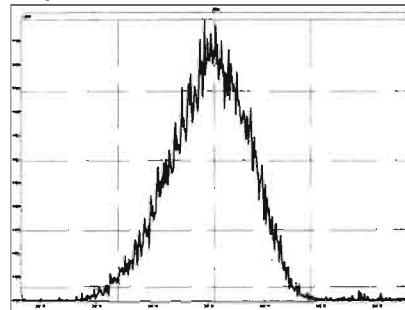
M 318.9792 R 10040



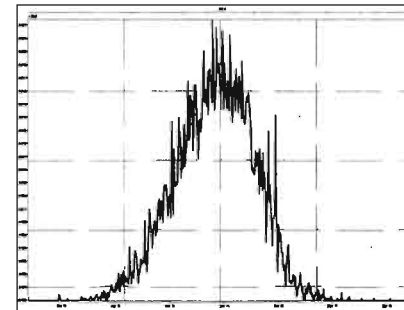
M 330.9792 R 10733



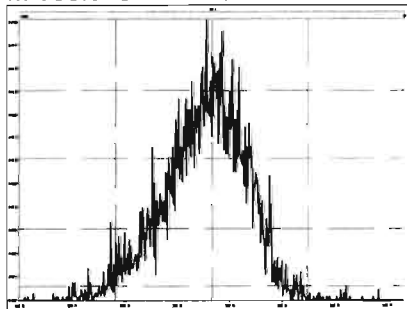
M 342.9792 R 10731



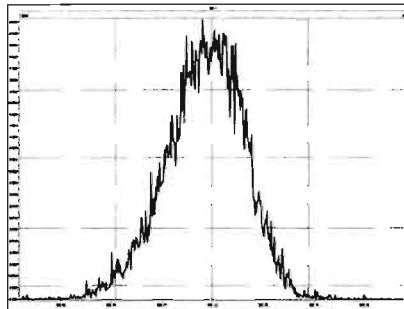
M 354.9792 R 10964



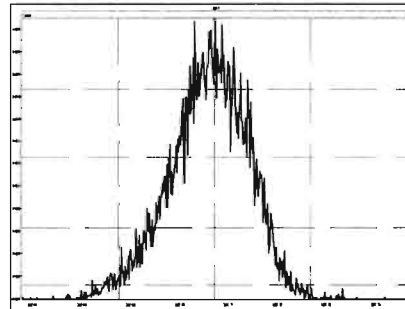
M 366.9792 R 11517



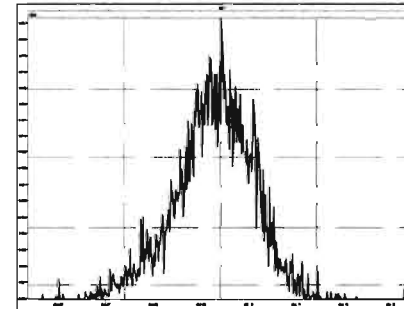
M 380.9760 R 11013



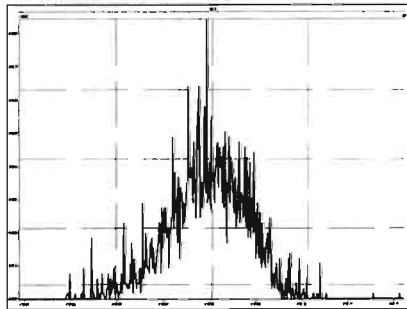
M 392.9760 R 11310



M 404.9760 R 11111



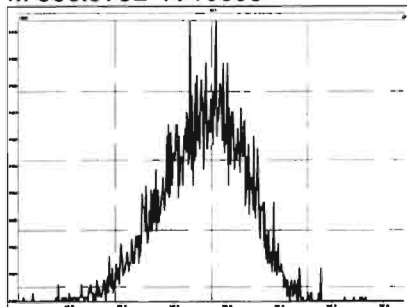
M 416.9760 R 12314



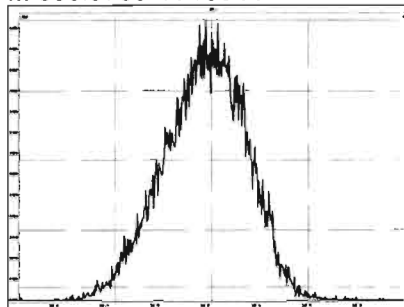
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, June 01, 2020 15:03:41 Pacific Daylight Time

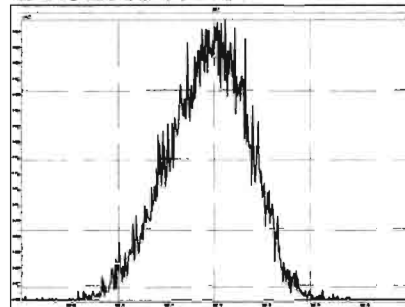
M 366.9792 R 10685



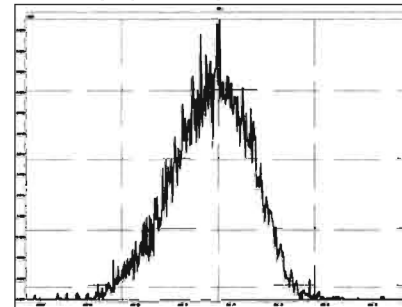
M 380.9760 R 10544



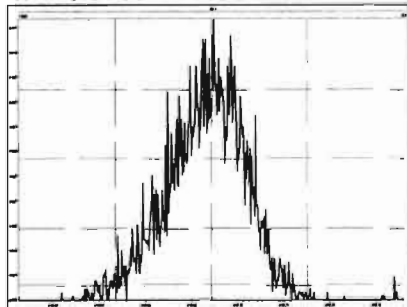
M 392.9760 R 11011



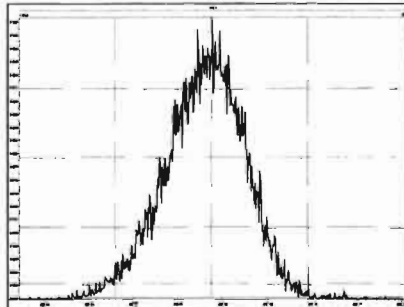
M 404.9760 R 10772



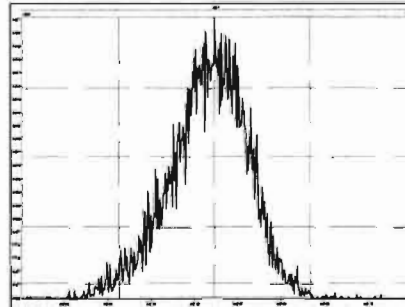
M 416.9760 R 13226



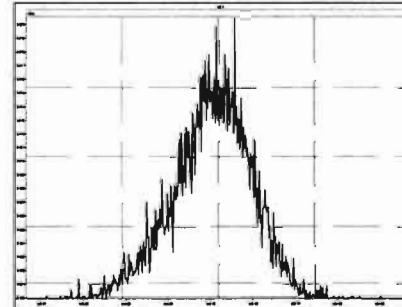
M 430.9728 R 10591



M 442.9728 R 10729



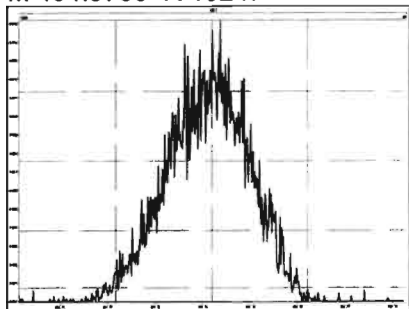
M 454.9728 R 10915



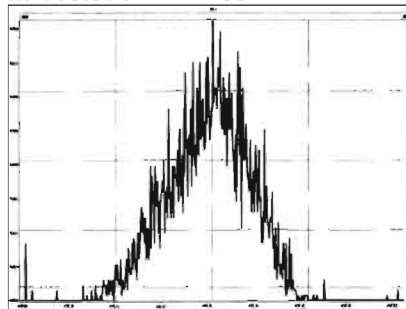
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Printed: Monday, June 01, 2020 15:04:00 Pacific Daylight Time

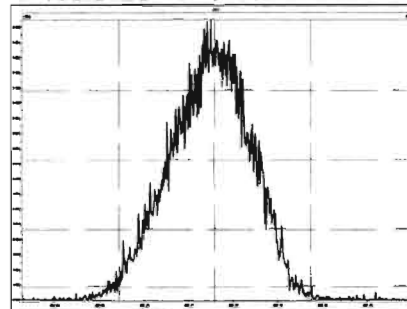
M 404.9760 R 10247



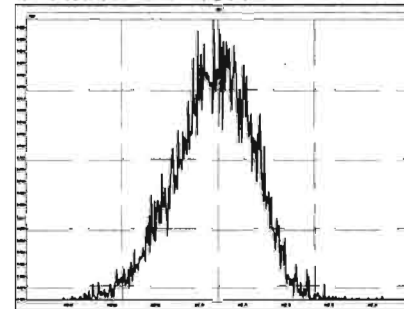
M 416.9760 R 11682



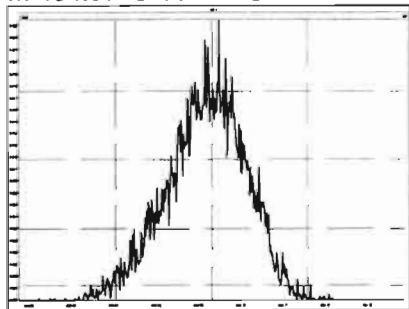
M 430.9728 R 11159



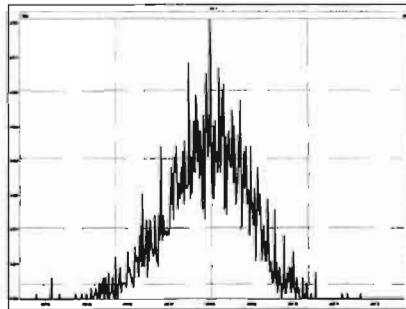
M 442.9728 R 10776



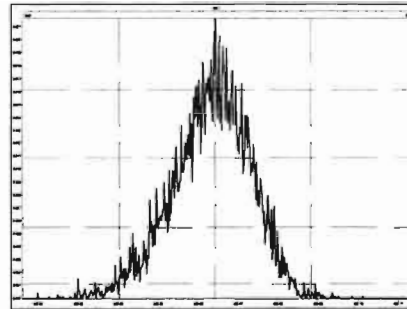
M 454.9728 R 11418



M 466.9728 R 13442



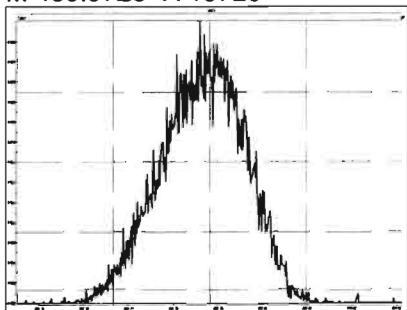
M 480.9696 R 11682



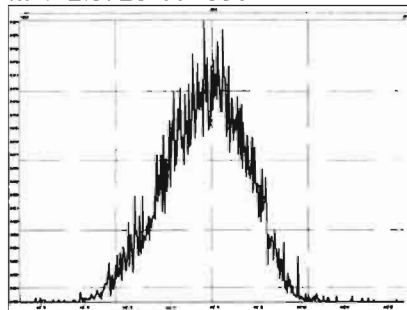
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, June 01, 2020 15:04:16 Pacific Daylight Time

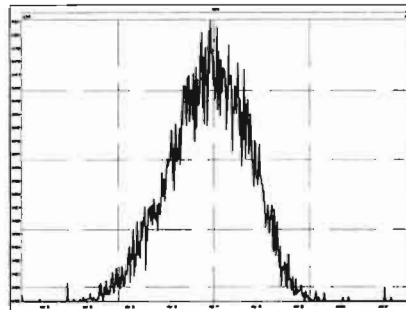
M 430.9728 R 10726



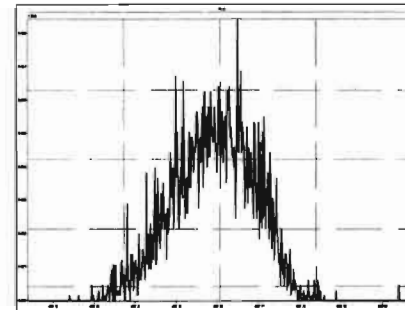
M 442.9728 R 10964



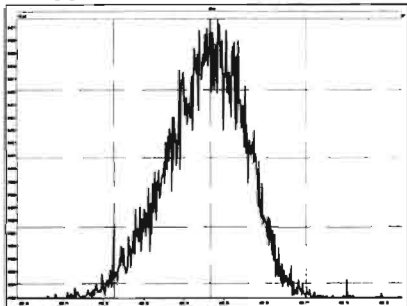
M 454.9728 R 11518



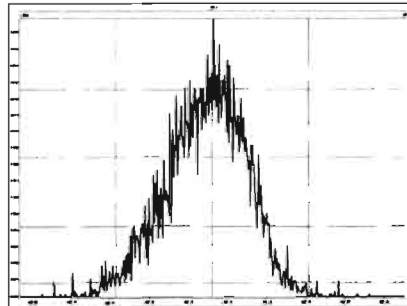
M 466.9728 R 12077



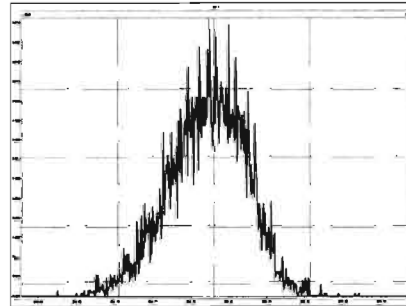
M 480.9696 R 11263



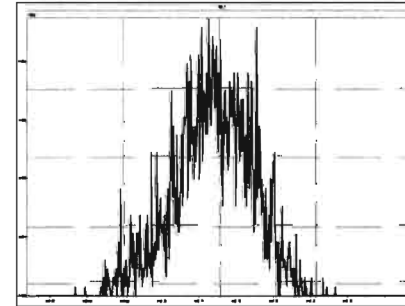
M 492.9696 R 10504



M 504.9696 R 11260



M 516.9697 R 13662



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 07:02:19 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 07:02:37 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: 200601R3_2, Date: 01-Jun-2020, Time: 15:51:44, ID: ST200601R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.52
2	1,2,8,9-TCDD (Last)	27.49
3	1,2,4,7,9-PeCDD (First)	29.27
4	1,2,3,8,9-PeCDD (Last)	31.86
5	1,2,4,6,7,9-HxCDD (First)	33.34
6	1,2,3,7,8,9-HxCDD (Last)	35.23
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)	20.38
10	1,2,8,9-TCDF (Last)	27.62
11	1,3,4,6,8-PeCDF (First)	27.59
12	1,2,3,8,9-PeCDF (Last)	32.11
13	1,2,3,4,6,8-HxCDF (First)	32.79
14	1,2,3,7,8,9-HxCDF (Last)	35.59
15	1,2,3,4,6,7,8-HpCDF (First)	37.36
16	1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 07:02:19 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 07:02:37 Pacific Daylight Time

GRB 06/02/2020

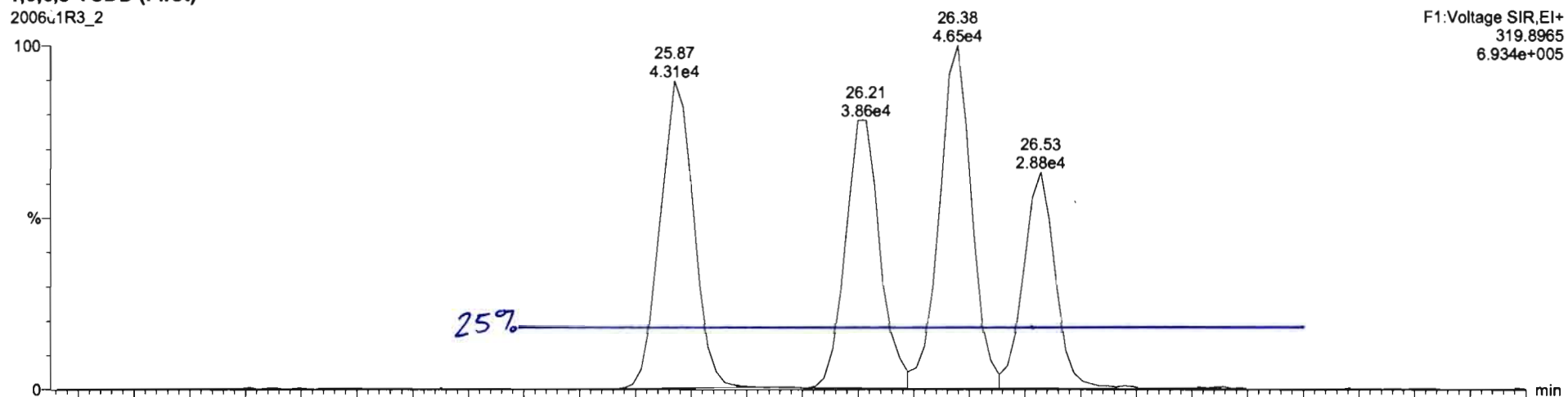
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

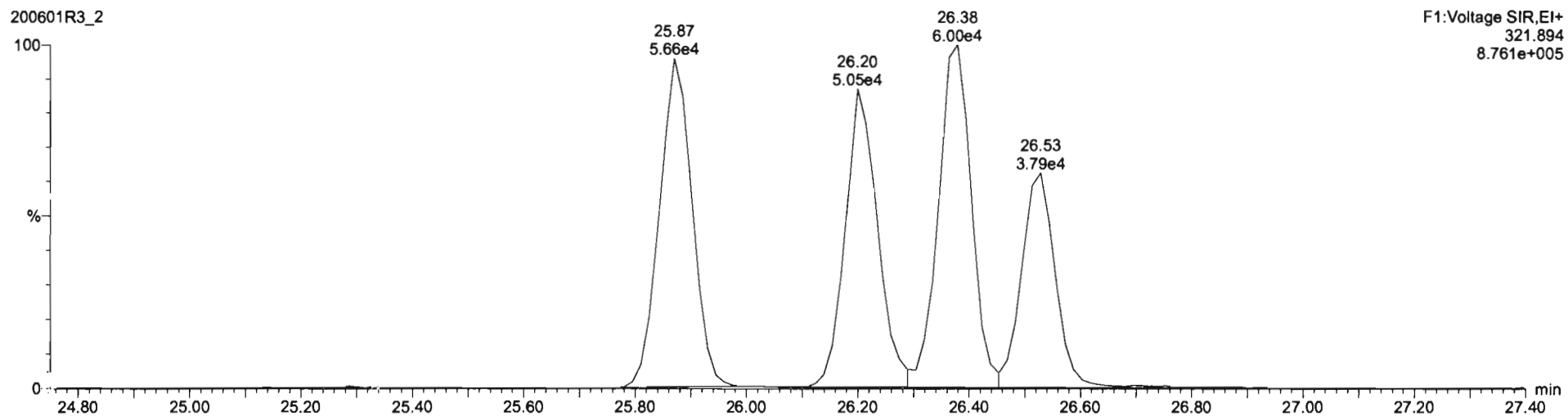
Name: 200601R3_2, Date: 01-Jun-2020, Time: 15:51:44, ID: ST200601R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200601R3_2



200601R3_2



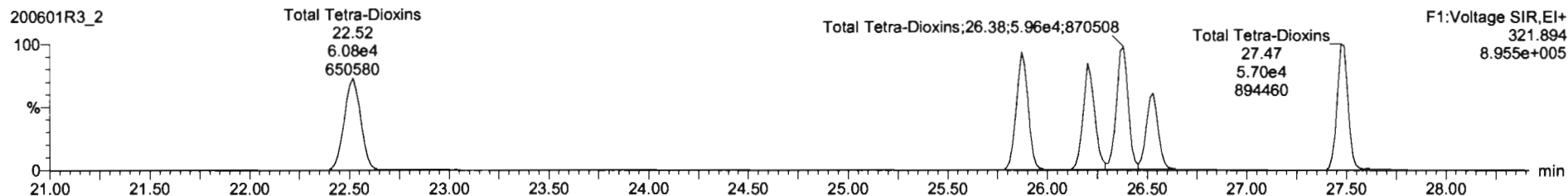
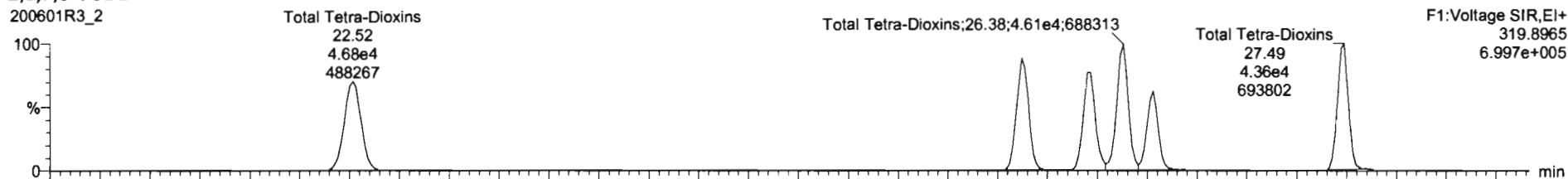
Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 06:58:50 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

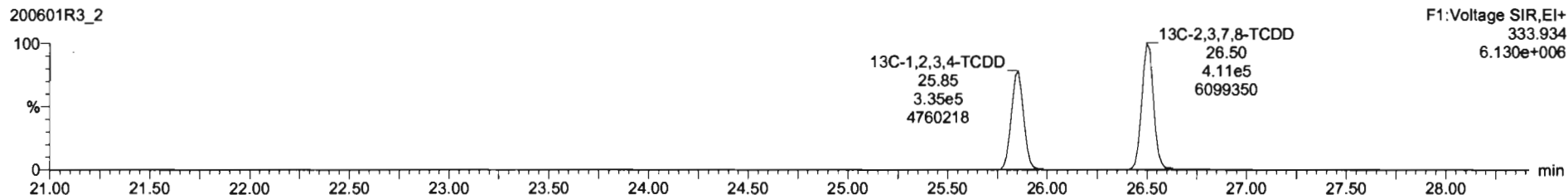
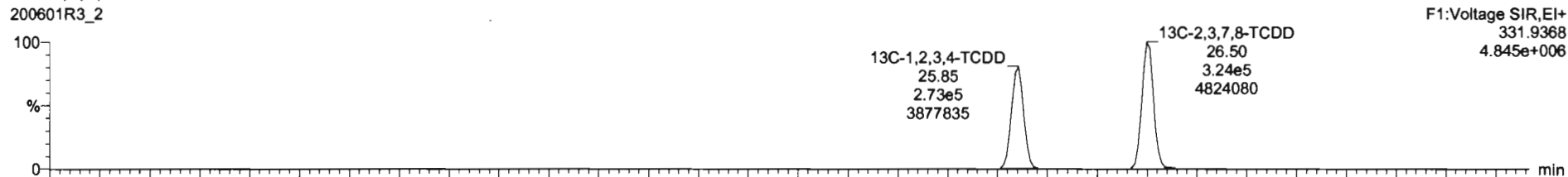
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200601R3_2, Date: 01-Jun-2020, Time: 15:51:44, ID: ST200601R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



Dataset: Untitled

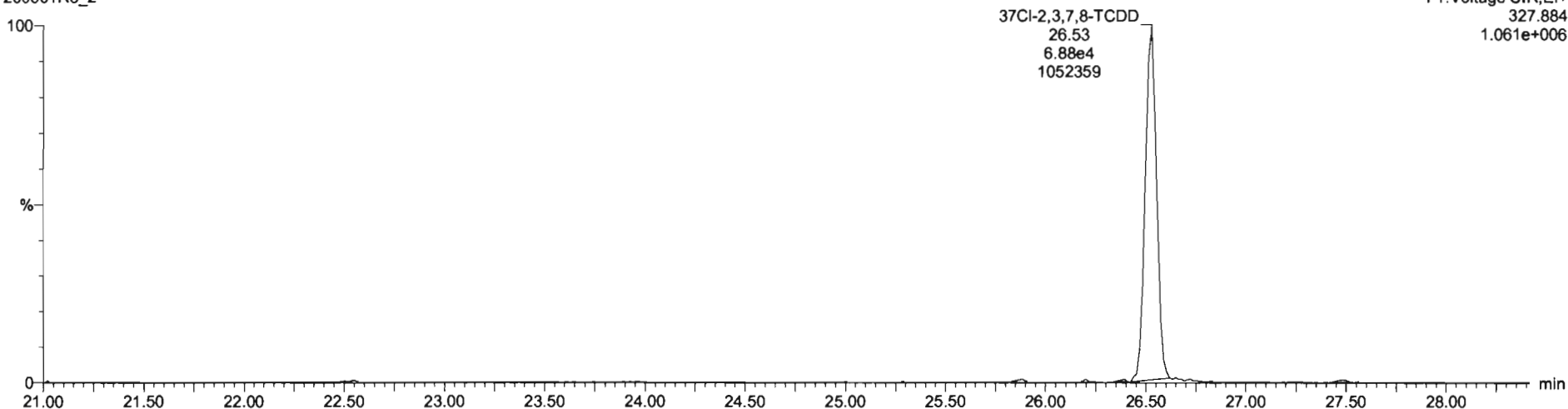
Last Altered: Tuesday, June 02, 2020 06:58:50 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

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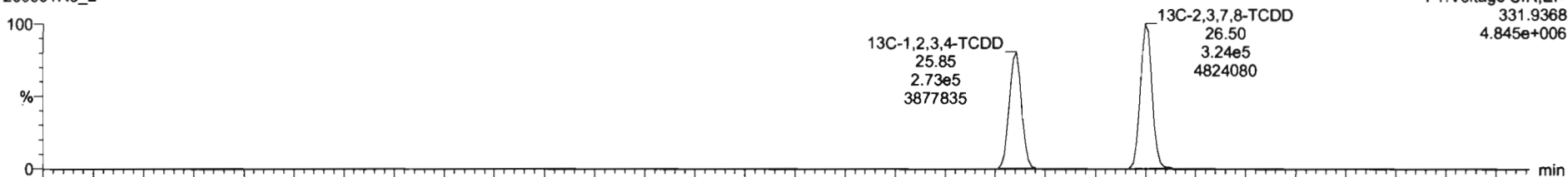
37Cl-2,3,7,8-TCDD

200601R3_2

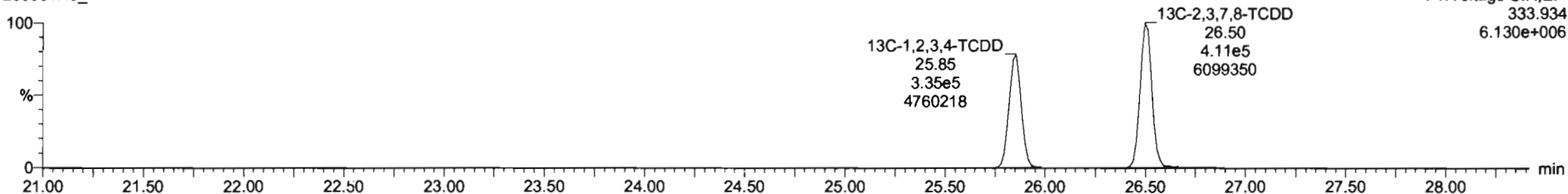


13C-1,2,3,4-TCDD

200601R3_2



200601R3_2



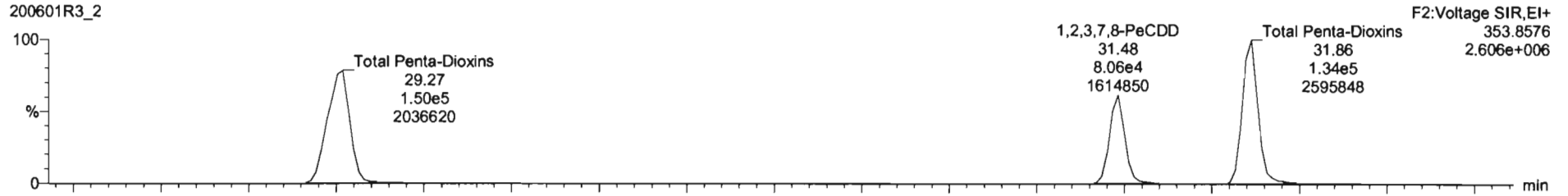
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Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

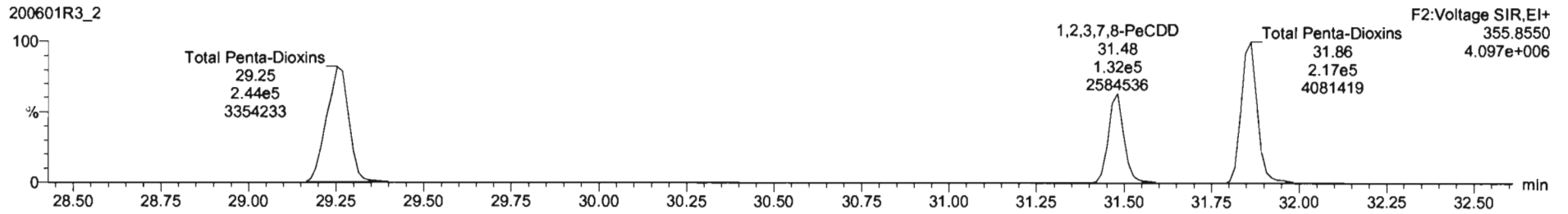
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1,2,3,7,8-PeCDD

200601R3_2

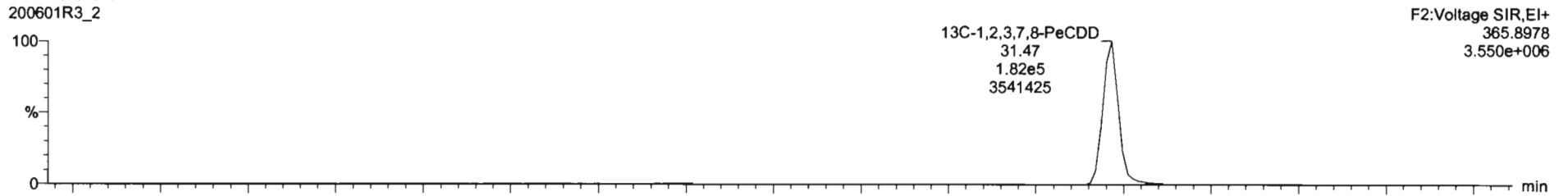


200601R3_2

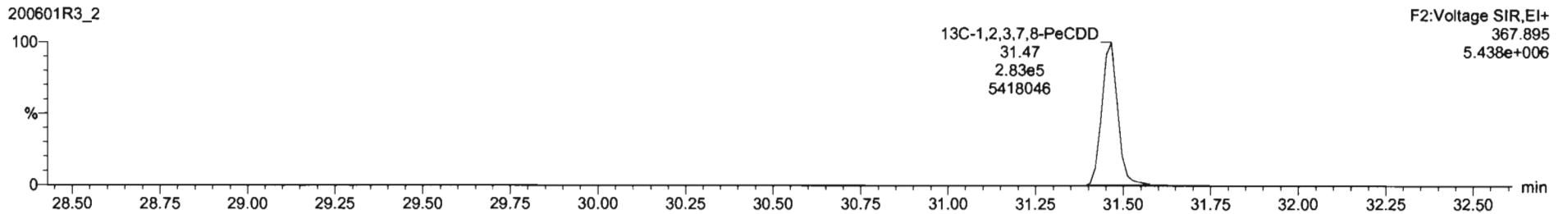


13C-1,2,3,7,8-PeCDD

200601R3_2



200601R3_2



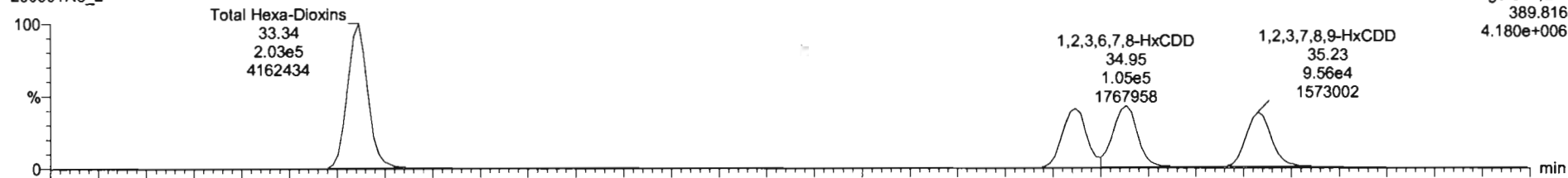
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Last Altered: Tuesday, June 02, 2020 06:58:50 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

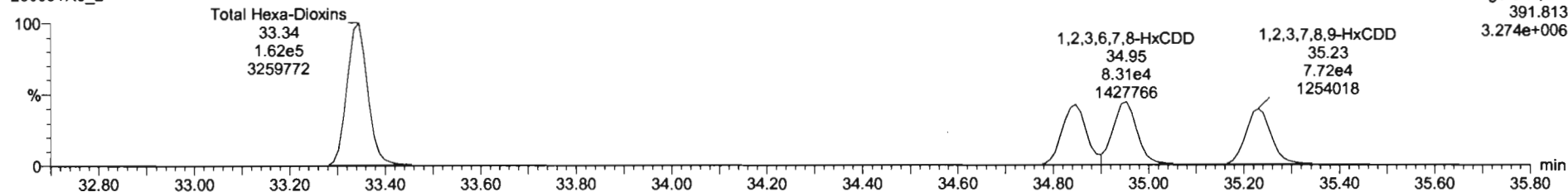
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1,2,3,4,7,8-HxCDD

200601R3_2

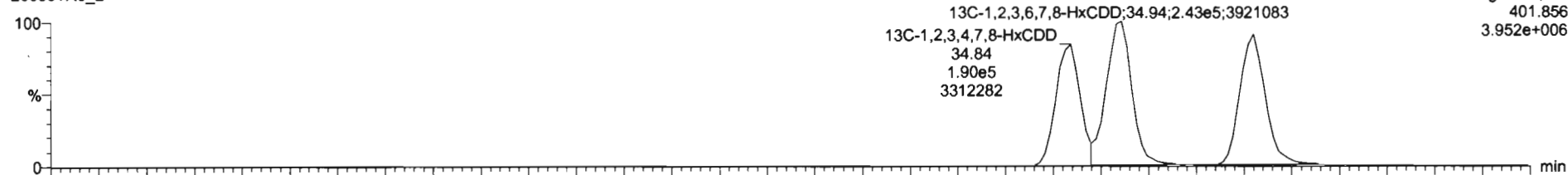


200601R3_2

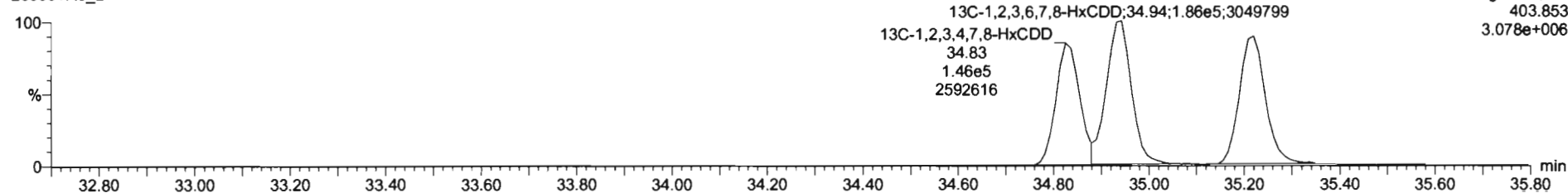


13C-1,2,3,4,7,8-HxCDD

200601R3_2



200601R3_2



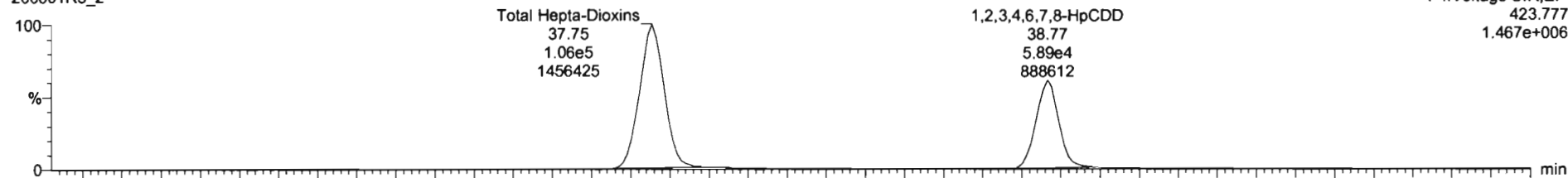
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Last Altered: Tuesday, June 02, 2020 06:58:50 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

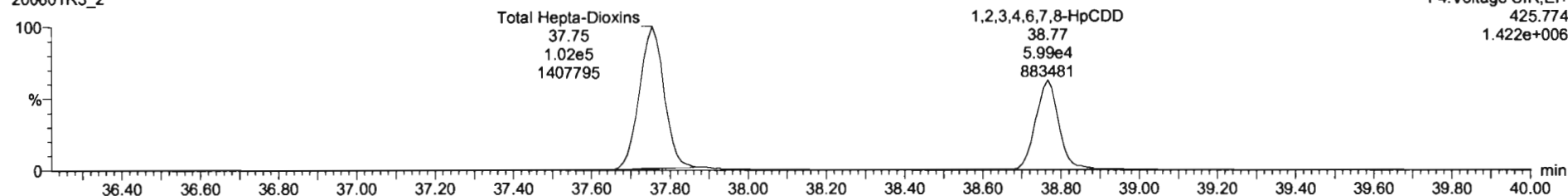
Name: 200601R3_2, Date: 01-Jun-2020, Time: 15:51:44, ID: ST200601R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200601R3_2

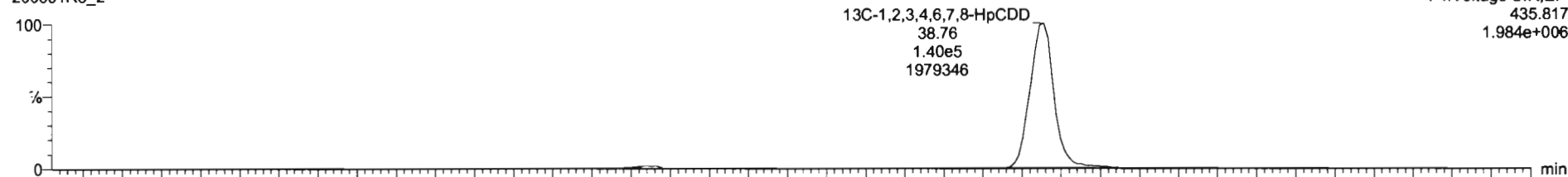


200601R3_2

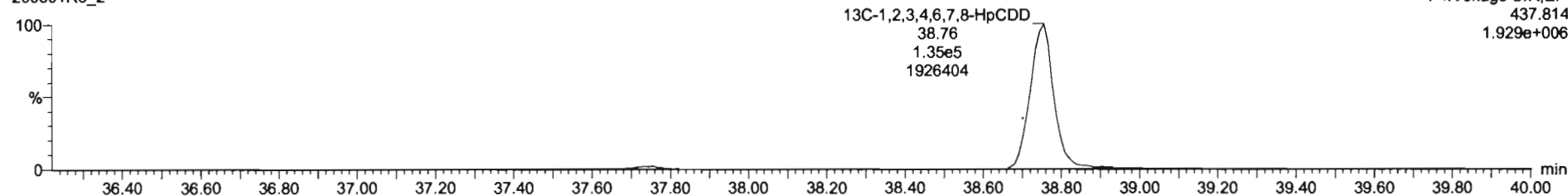


13C-1,2,3,4,6,7,8-HpCDD

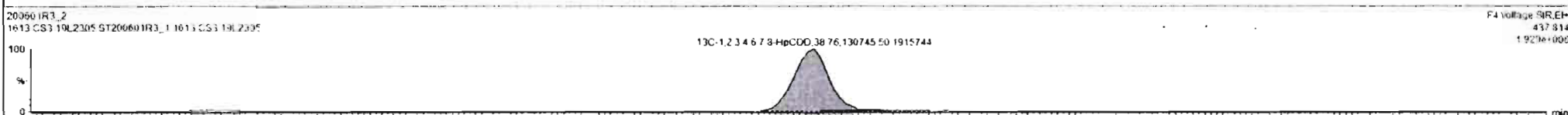
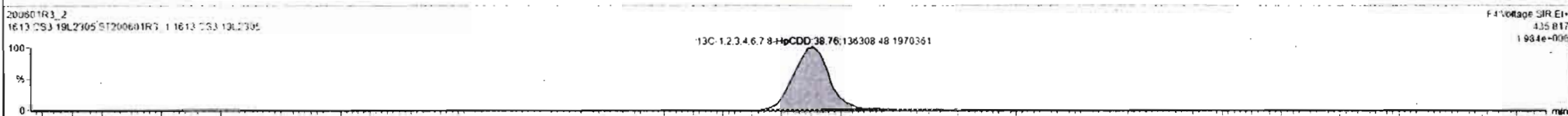
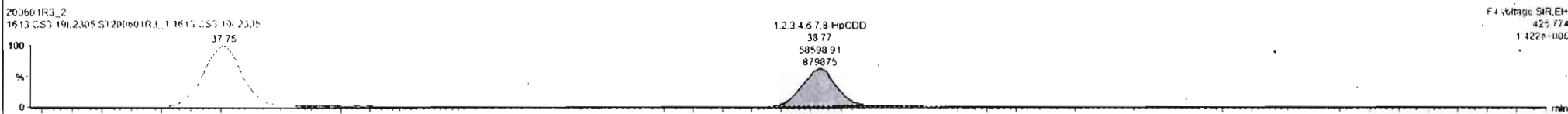
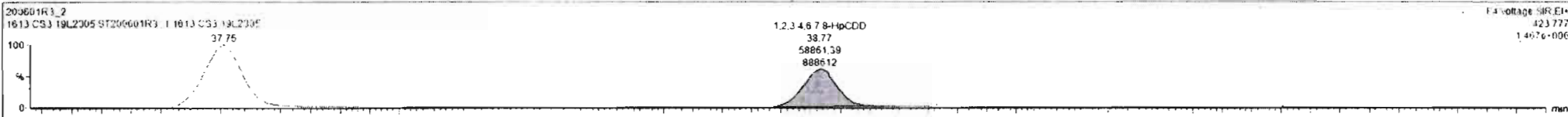
200601R3_2



200601R3_2



Name	Reap	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	6.48e4	0.75	NO	0.89	1.000	26.53	1.001	9.52	99.2	0.0601	3.92
2 1,2,3,7,8-PeCDD	2.13e5	0.61	NO	0.91	1.000	31.46	1.000	50.3	101	0.117	50.3
3 1,2,3,4,7,8-HxCDD	1.79e5	1.24	NO	1.03	1.000	34.85	1.000	51.7	103	0.176	51.7
4 1,2,3,6,7,8-HxCDD	1.88e5	1.27	NO	0.89	1.000	34.95	1.000	49.2	99.5	0.174	49.2
5 1,2,3,7,8,9-HxCDD	1.73e5	1.24	NO	0.89	1.000	35.23	1.000	49.6	99.6	0.191	49.6
6 1,2,3,4,6,7,8-HpCDD	1.97e5	1.00	NO	0.86	1.000	38.77	1.000	50.9	102	0.233	50.9
7 OCDD	2.35e5	0.86	NO	0.91	1.000	41.73	1.000	106	106	0.225	106
8 2,3,7,8-TCDF	7.67e4	0.74	NO	0.75	1.000	25.62	1.001	10.0	100	0.0527	10.0
9 1,2,3,7,8-PeCDF	3.44e5	1.52	NO	0.89	1.000	30.20	1.001	52.4	105	0.110	52.4
10 1,2,3,4,7,8-PeCDF	7.48e5	1.61	NO	0.93	1.000	31.18	1.000	51.4	103	0.0988	51.4
11 1,2,3,4,7,8-HxCDF	2.07e5	1.20	NO	0.88	1.000	33.96	1.000	51.4	103	0.110	51.4
12 1,2,3,6,7,8-HxCDF	2.42e5	1.21	NO	0.89	1.000	34.09	1.000	50.7	101	0.166	50.7
13 2,3,4,6,7,8-HxCDF	2.24e5	1.21	NO	0.93	1.000	34.68	1.000	51.4	103	0.193	51.4
14 1,2,3,7,8,9-HxCDF	1.73e5	1.21	NO	0.87	1.000	35.59	1.000	50.9	102	0.277	50.9
15 1,2,3,4,6,7,8-HpCDF	1.51e5	1.00	NO	0.87	1.000	37.36	1.000	52.2	104	0.196	52.2
16 1,2,3,4,7,8,9-HpCDF	1.11e5	1.00	NO	1.01	1.000	39.31	1.000	51.8	104	0.215	51.8
17 OCDF	2.52e5	0.91	NO	0.81	1.000	41.92	1.000	104	104	0.177	104



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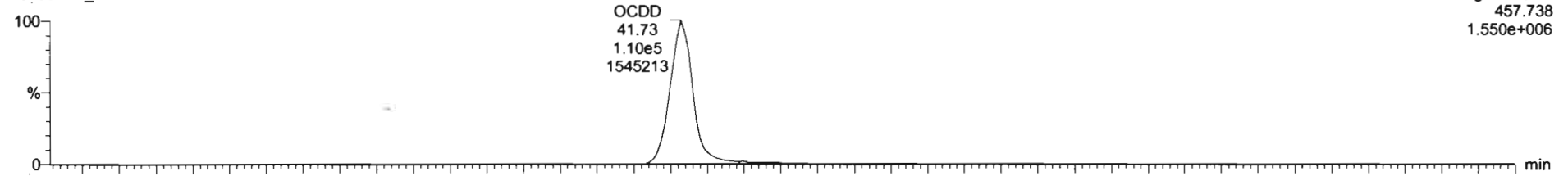
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Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

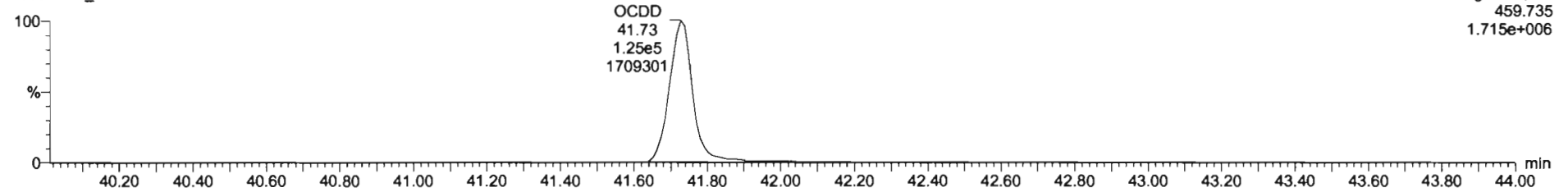
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OCDD

200601R3_2

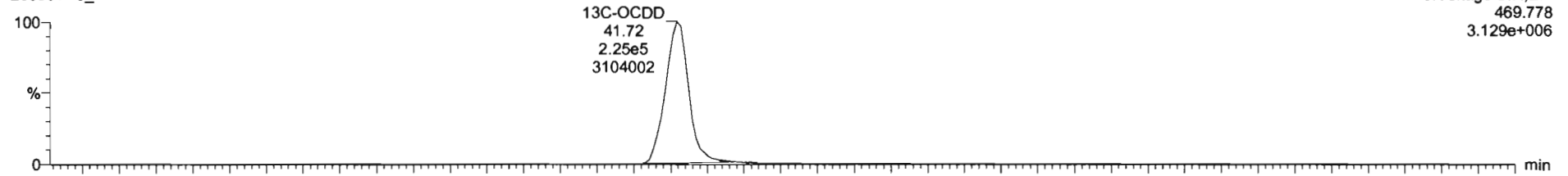


200601R3_2

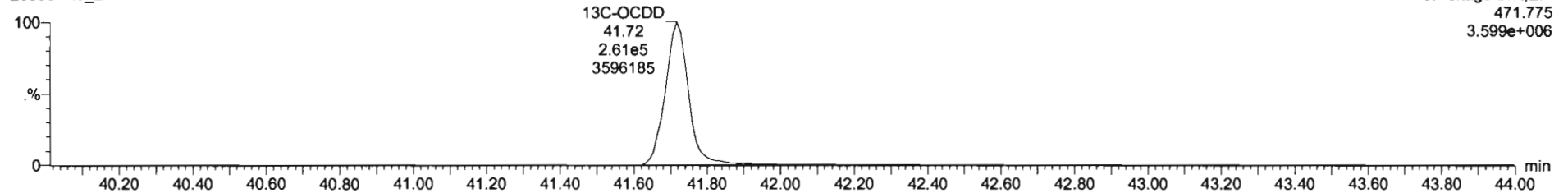


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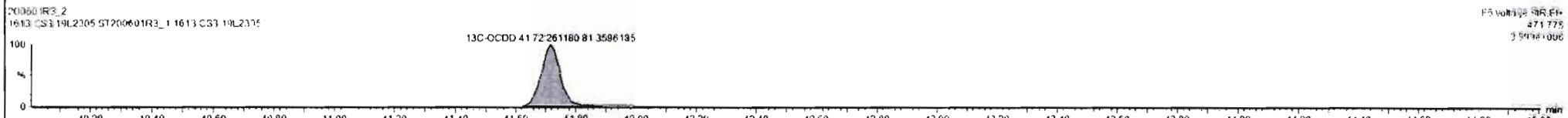
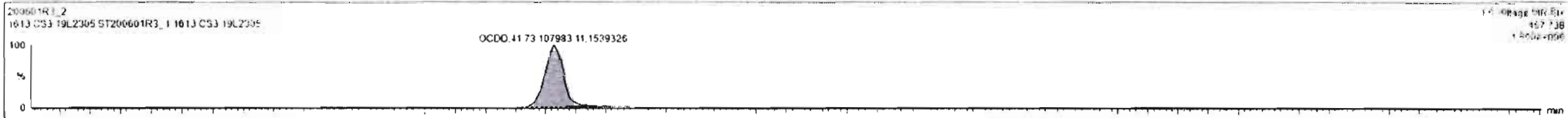
200601R3_2



200601R3_2



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1	2,3,7,8-TCDD	6.48e4	0.75	NO	0.99	1.900	26.52	1.001	9.52	99.2	0.0601	9.92
2	1,2,3,7,8-PeCDD	2.13e5	0.61	NO	0.91	1.900	31.48	1.000	50.3	101	0.157	50.3
3	1,2,3,4,7,8-HxCDD	1.79e5	1.24	NO	1.02	1.900	34.85	1.000	51.7	103	0.176	51.7
4	1,2,3,6,7,8-HxCDD	1.86e5	1.27	NO	0.89	1.900	34.95	1.000	49.2	99.5	0.174	49.2
5	1,2,3,7,8,9-HxCDD	1.73e5	1.24	NO	0.99	1.900	35.23	1.000	49.8	99.6	0.191	49.8
6	1,2,3,4,6,7,8-HpCDD	1.17e5	1.00	NO	0.86	1.900	38.77	1.000	50.9	102	0.233	50.9
7	OCDD	2.30e5	0.88	NO	0.91	1.900	41.73	1.000	104	104	0.229	104
8	2,3,7,8-TCDF	7.67e4	0.74	NO	0.75	1.900	25.43	1.001	10.0	100	0.0527	10.0
9	1,2,3,7,8-PeCDF	3.44e5	1.52	NO	0.89	1.900	30.70	1.001	52.4	105	0.110	52.4
10	2,3,4,7,8-PeCDF	3.48e5	1.61	NO	0.92	1.900	31.18	1.000	51.4	103	0.0928	51.4
11	1,2,3,4,7,8-HxCDF	2.07e5	1.20	NO	0.88	1.900	33.98	1.000	51.4	103	0.180	51.4
12	1,2,3,6,7,8-HxCDF	2.42e5	1.21	NO	0.89	1.900	34.09	1.000	50.7	101	0.166	50.7
13	2,3,4,6,7,8-HxCDF	2.24e5	1.21	NO	0.93	1.900	34.68	1.000	51.4	103	0.193	51.4
14	1,2,3,7,8,9-HxCDF	1.73e5	1.21	NO	0.87	1.900	35.59	1.000	50.9	102	0.277	50.9
15	1,2,3,4,6,7,8-HpCDF	1.51e5	1.00	NO	0.87	1.900	37.36	1.000	52.2	104	0.196	52.2
16	1,2,3,4,7,8,9-HpCDF	1.11e5	1.00	NO	1.01	1.900	39.31	1.000	51.8	104	0.215	51.8
17	OCDF	2.52e5	0.91	NO	0.81	1.900	41.92	1.000	104	104	0.137	104



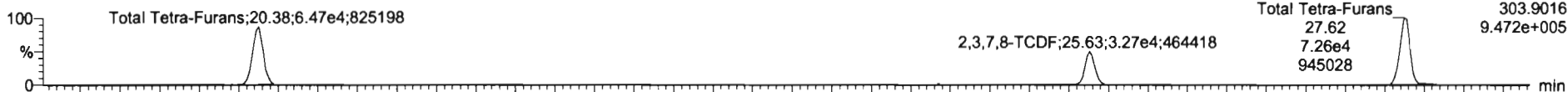
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Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

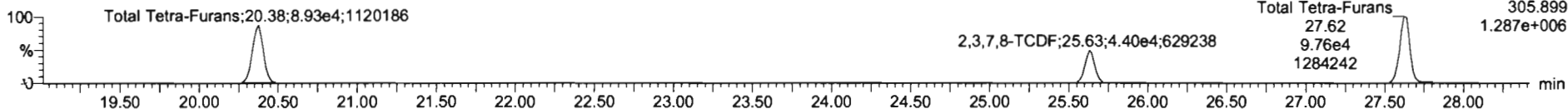
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2,3,7,8-TCDF

200601R3_2

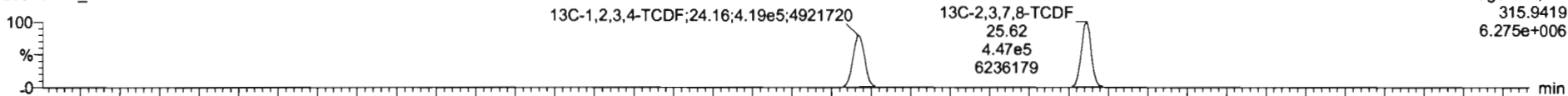


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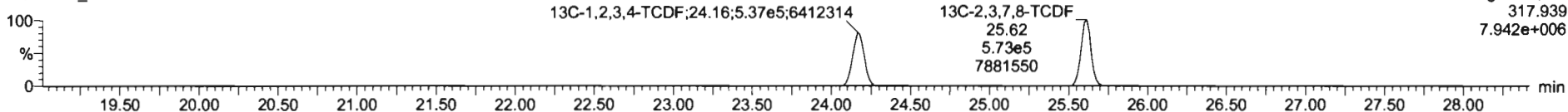


13C-2,3,7,8-TCDF

200601R3_2

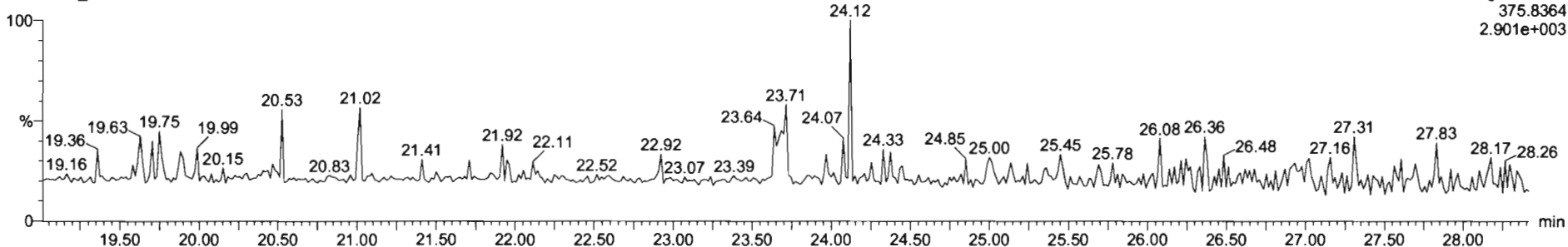


200601R3_2



DPE1

200601R3_2



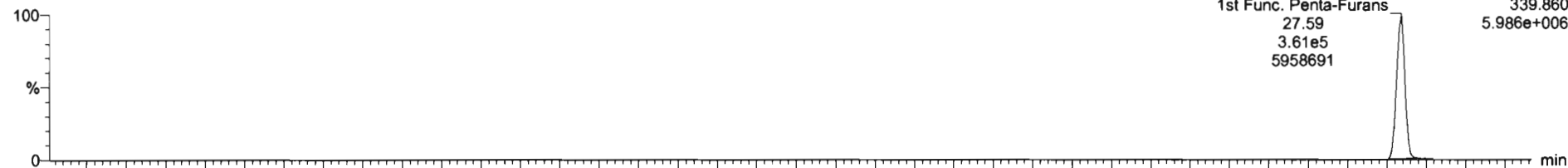
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Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

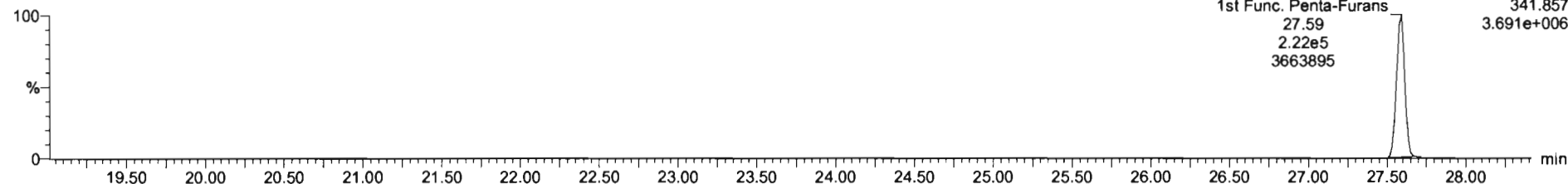
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1st Func. Penta-Furans

200601R3_2

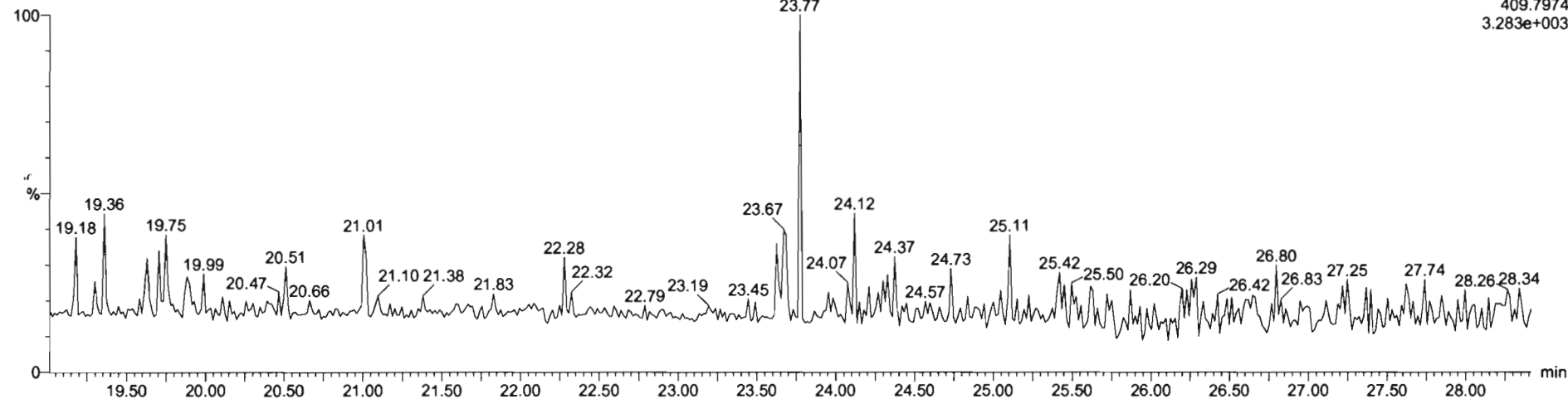


200601R3_2



DPE6

200601R3_2



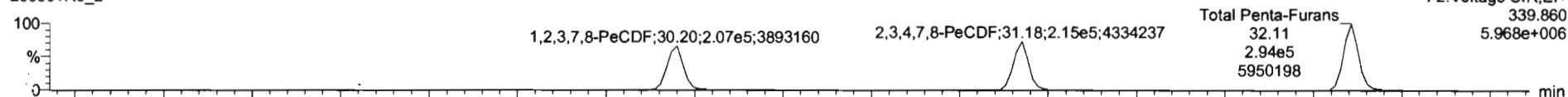
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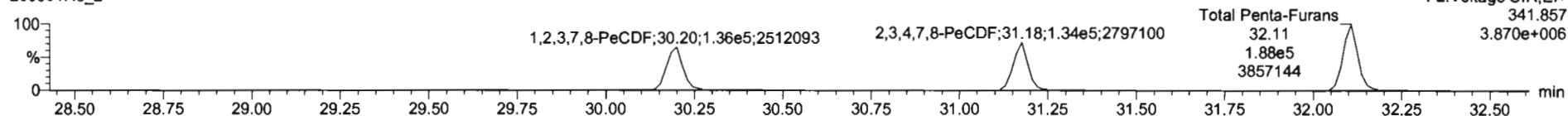
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1,2,3,7,8-PeCDF

200601R3_2

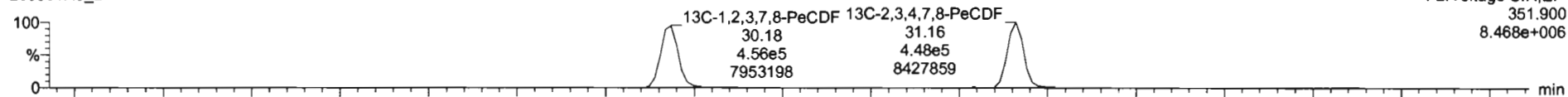


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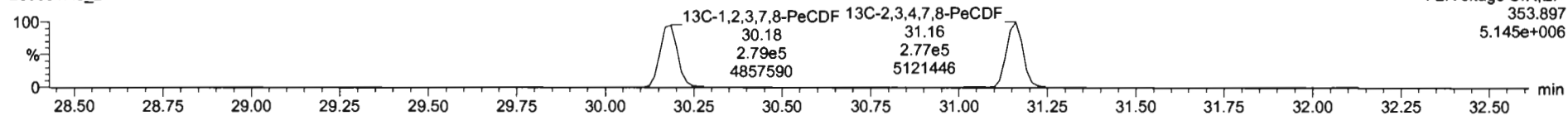


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200601R3_2

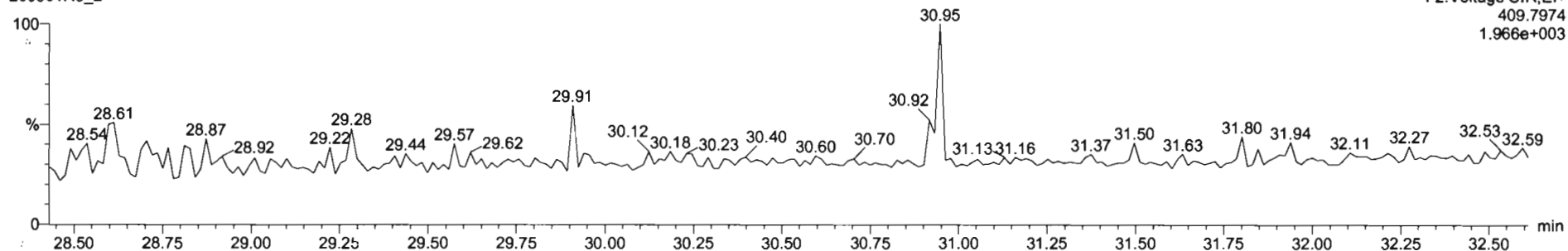


200601R3_2



DPE2

200601R3_2

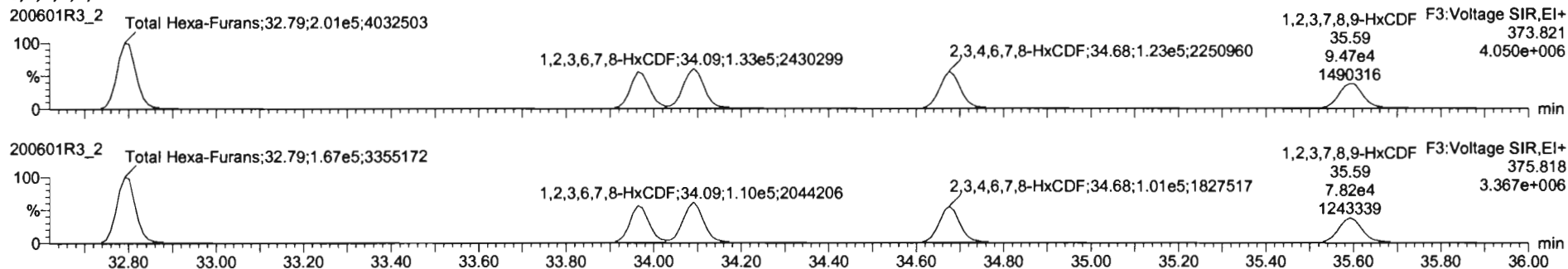


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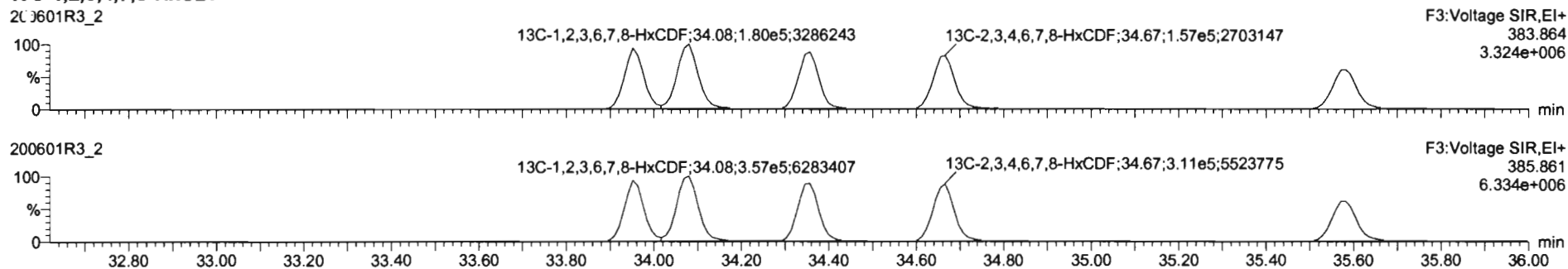
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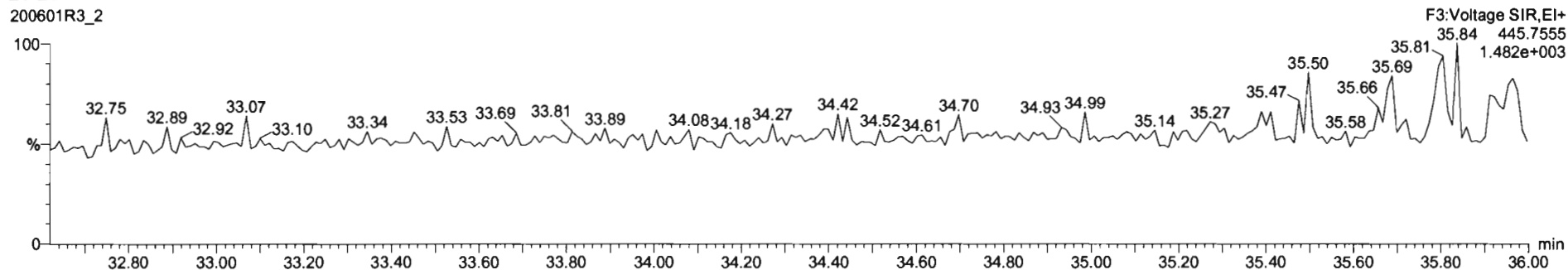
1,2,3,4,7,8-HxCDF



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



DPE3



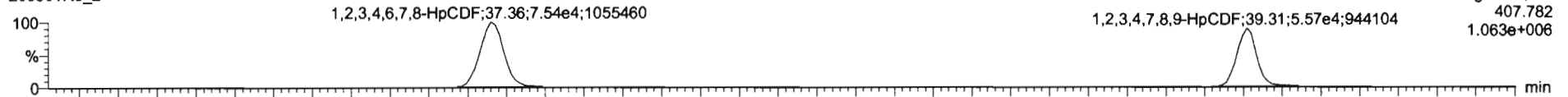
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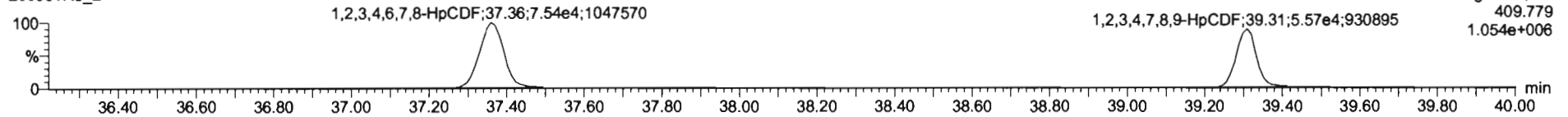
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1,2,3,4,6,7,8-HpCDF

200601R3_2

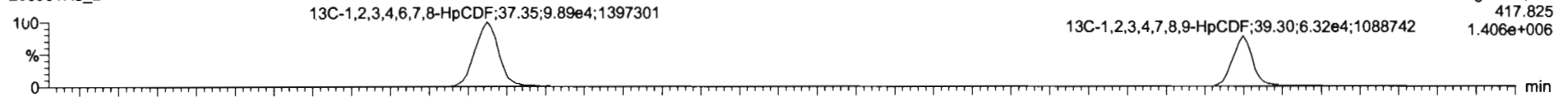


200601R3_2

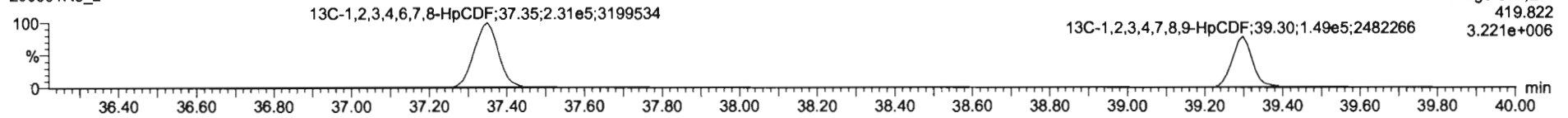


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200601R3_2

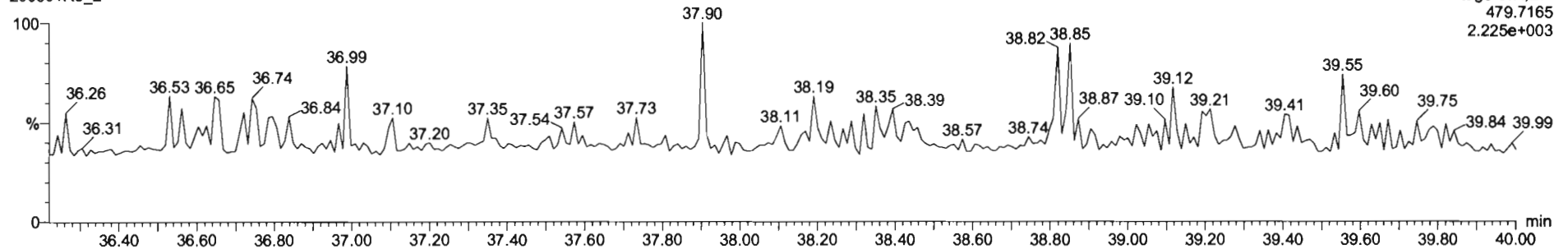


200601R3_2



DPE4

200601R3_2



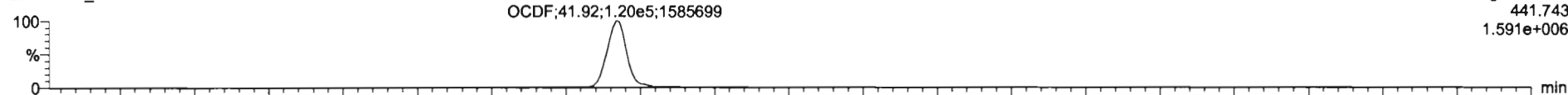
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Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

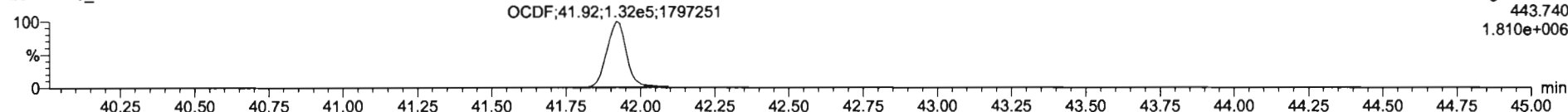
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OCDF

200601R3_2

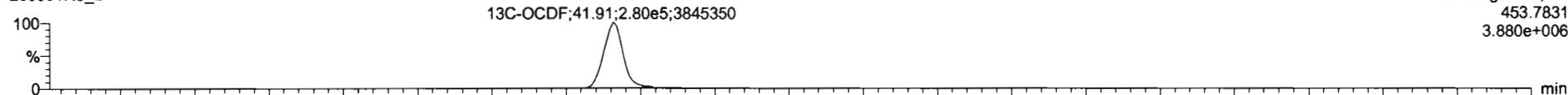


200601R3_2

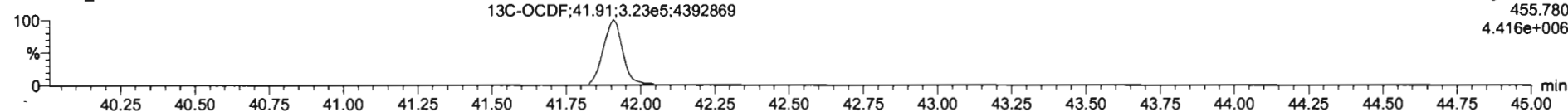


13C-OCDF

200601R3_2

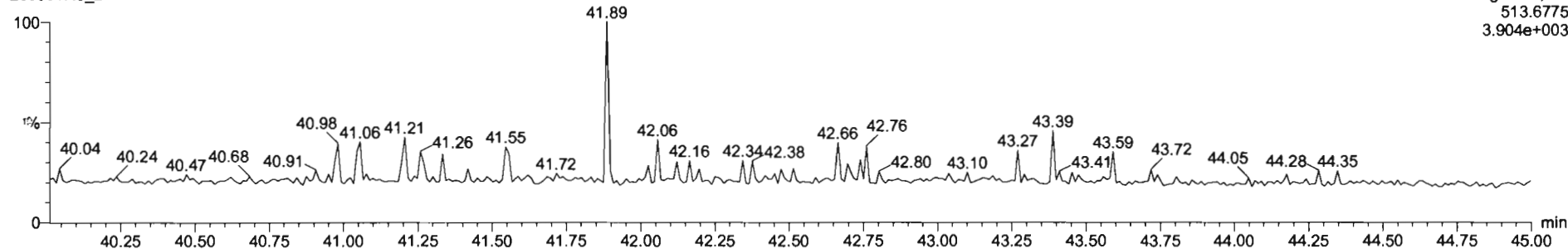


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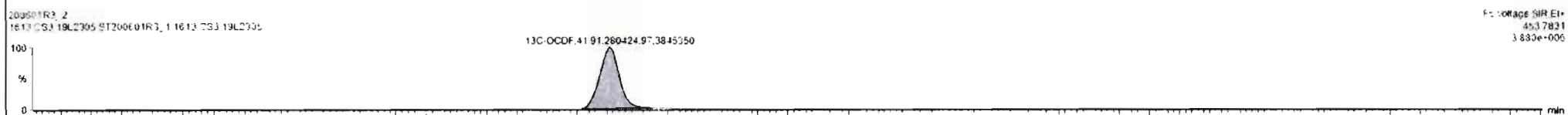
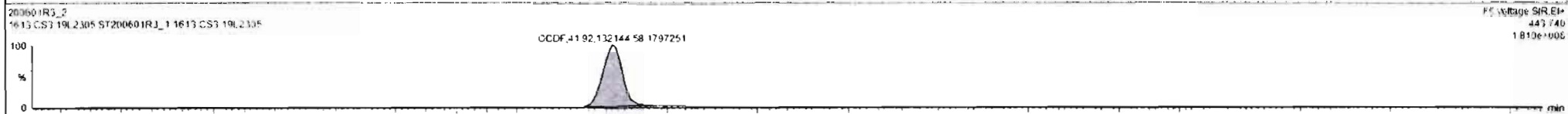
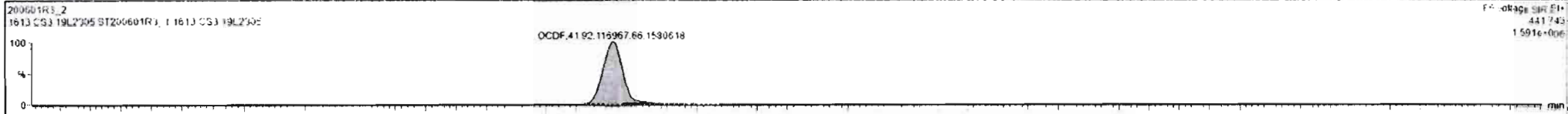


DPE5

200601R3_2



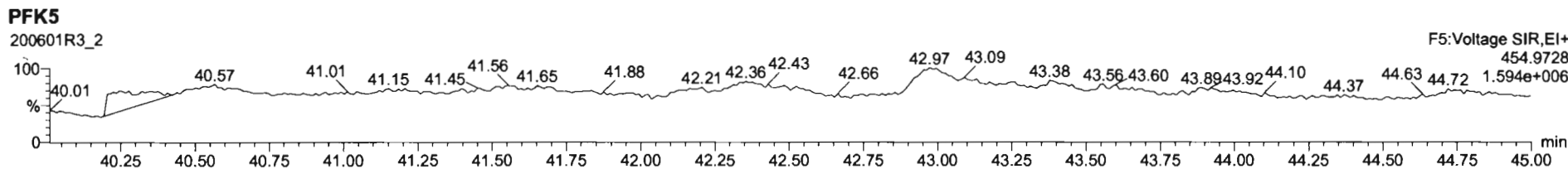
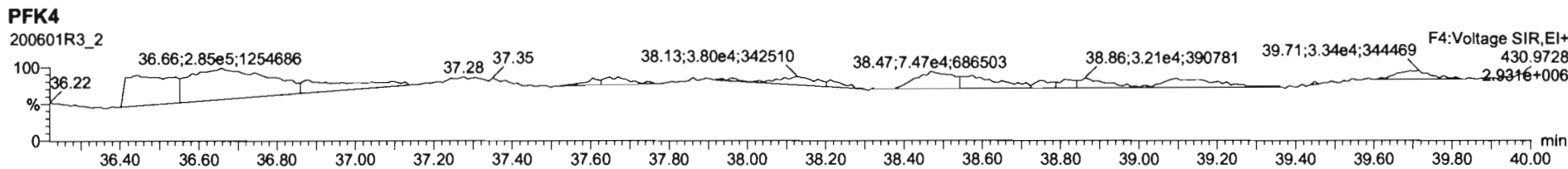
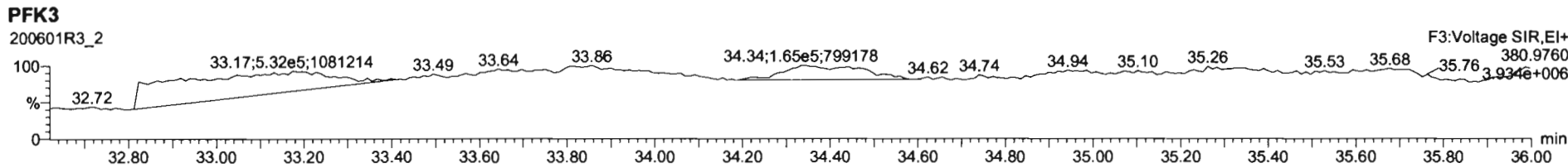
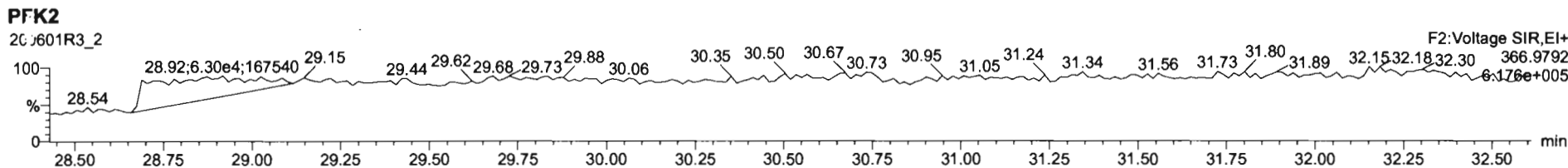
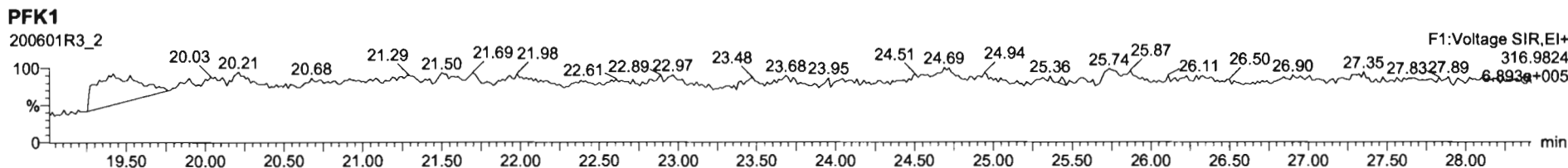
#	Name	Resp	RA	aly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	6.46e4	0.75	NO	0.89	1.000	26.53	1.001	9.92	99.2	0.0601	3.92
2	1,2,3,7,8-PeCDD	2.13e5	0.61	NO	0.91	1.000	31.46	1.000	50.3	101	0.157	50.3
3	1,2,3,4,7,8-HxCDD	1.79e5	1.24	NO	1.03	1.000	34.85	1.000	51.7	102	0.176	51.7
4	1,2,3,6,7,8-HxCDD	1.86e5	1.27	NO	0.89	1.000	34.95	1.000	49.2	98.5	0.174	49.2
5	1,2,3,7,8,9-HxCDD	1.73e5	1.24	NO	0.89	1.000	35.23	1.000	49.8	99.6	0.191	49.8
6	1,2,3,4,6,7,8-HpCDD	1.17e5	1.00	NO	0.96	1.000	38.77	1.000	50.9	102	0.233	50.9
7	OCDD	2.30e5	0.88	NO	0.91	1.000	41.73	1.000	104	104	0.229	104
8	2,3,7,8-TCDF	7.67e4	0.74	NO	0.75	1.000	25.63	1.001	10.0	100	0.0527	10.0
9	1,2,3,7,8-PeCDF	3.44e5	1.52	NO	0.89	1.000	30.20	1.001	52.4	105	0.110	52.4
10	2,3,4,7,8-PeCDF	2.48e5	1.61	NO	0.93	1.000	31.18	1.000	51.4	103	0.0968	51.4
11	1,2,3,4,7,8-HxCDF	2.07e5	1.50	NO	0.88	1.000	33.96	1.000	51.4	103	0.180	51.4
12	1,2,3,6,7,8-HxCDF	2.42e5	1.21	NO	0.89	1.000	34.09	1.000	50.7	101	0.166	50.7
13	2,3,4,6,7,8-HxCDF	2.24e5	1.21	NO	0.93	1.000	34.68	1.000	51.4	103	0.193	51.4
14	1,2,3,7,8,9-HxCDF	1.73e5	1.21	NO	0.87	1.000	35.59	1.000	50.9	102	0.277	50.9
15	1,2,3,4,6,7,8-HpCDF	1.51e5	1.00	NO	0.87	1.000	37.36	1.000	52.2	104	0.196	52.2
16	1,2,3,4,7,8,9-HpCDF	1.11e5	1.00	NO	1.01	1.000	39.31	1.000	51.8	104	0.215	51.8
17	OCDF	2.49e5	0.89	NO	0.81	1.000	41.82	1.000	102	102	0.197	102



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 06:58:50 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 06:59:32 Pacific Daylight Time

Name: 200601R3_2, Date: 01-Jun-2020, Time: 15:51:44, ID: ST200601R3_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



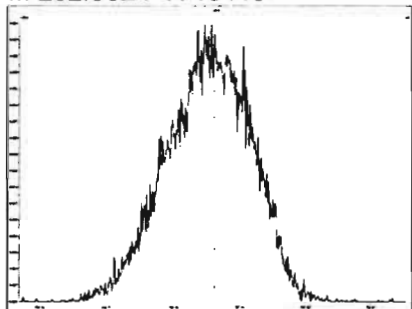
Experiment Calibration Report

MassLynx 4.1 SCN815

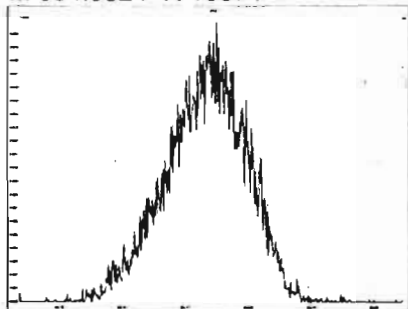
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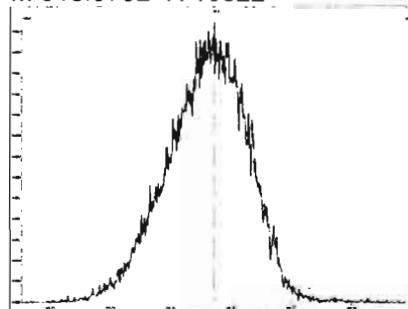
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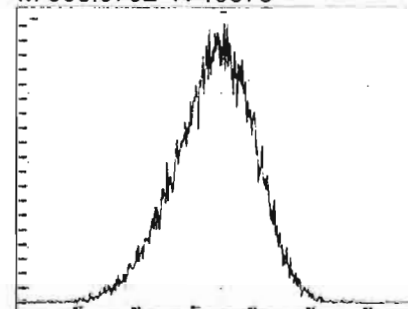
M 304.9824 R 10871



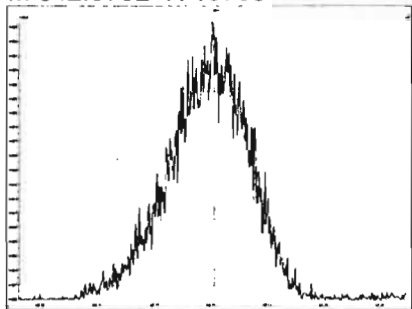
M 318.9792 R 10822



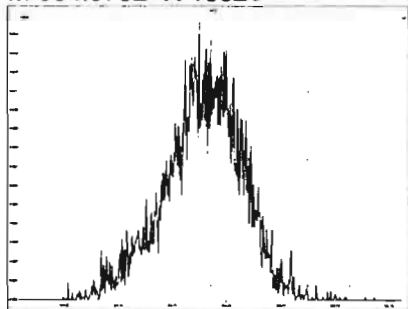
M 330.9792 R 10376



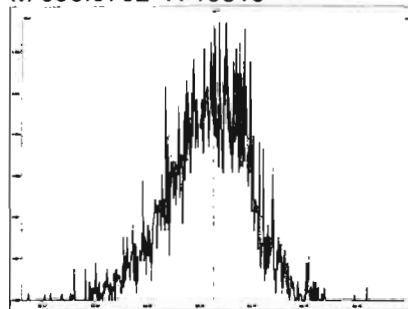
M 342.9792 R 10730



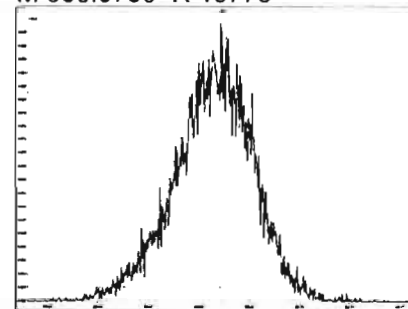
M 354.9792 R 10820



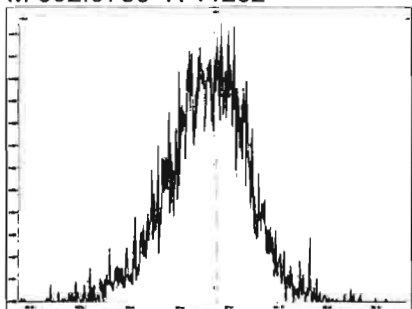
M 366.9792 R 13813



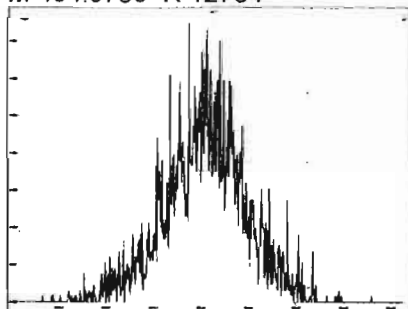
M 380.9760 R 10775



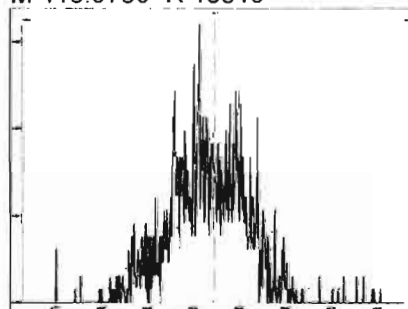
M 392.9760 R 11262



M 404.9760 R 12754



M 416.9760 R 15819



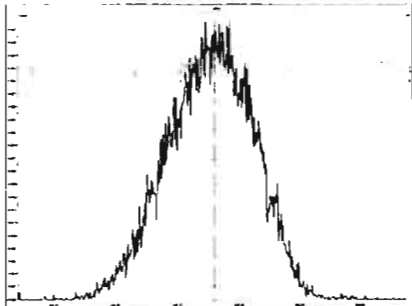
Experiment Calibration Report

MassLynx 4.1 SCN815

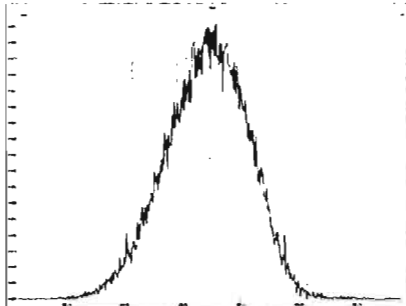
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 07:30:54 Pacific Daylight Time

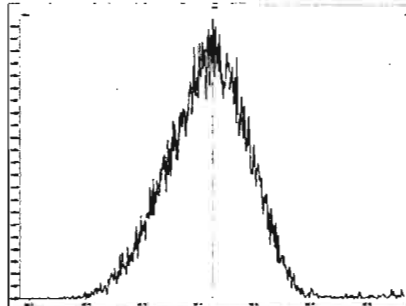
M 318.9792 R 10040



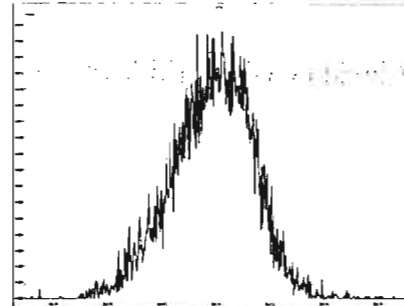
M 330.9792 R 10120



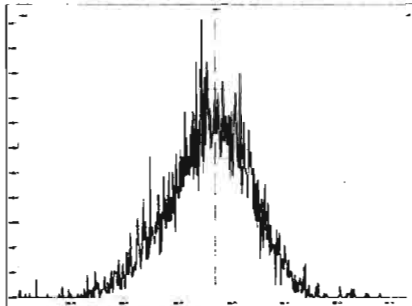
M 342.9792 R 10461



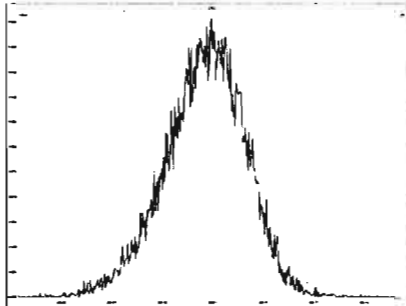
M 354.9792 R 11260



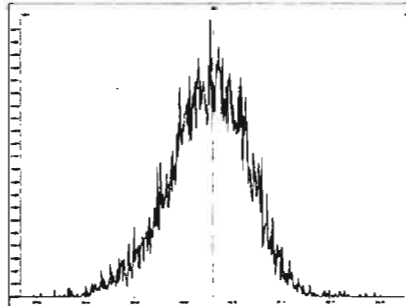
M 366.9792 R 10866



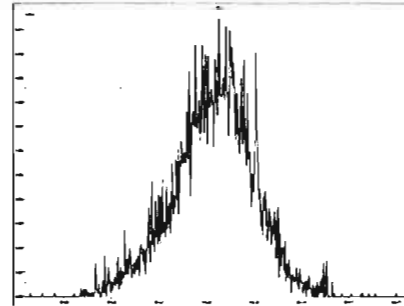
M 380.9760 R 10964



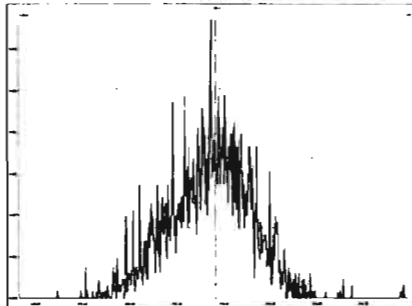
M 392.9760 R 12197



M 404.9760 R 11211



M 416.9760 R 12134



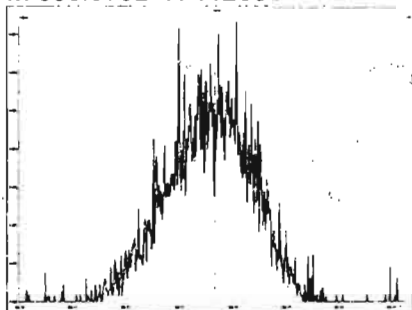
Experiment Calibration Report

MassLynx 4.1 SCN815

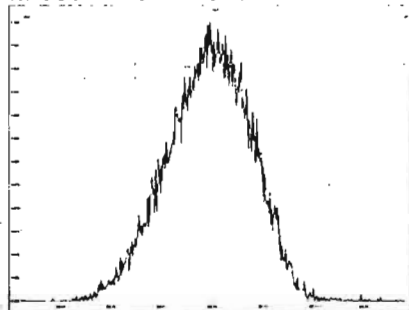
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 07:31:35 Pacific Daylight Time

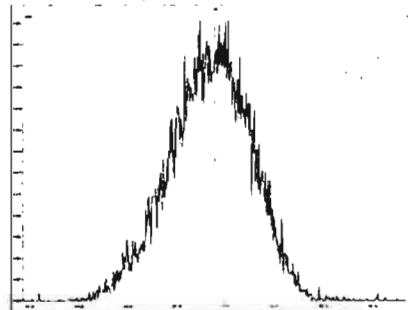
M 366.9792 R 11263



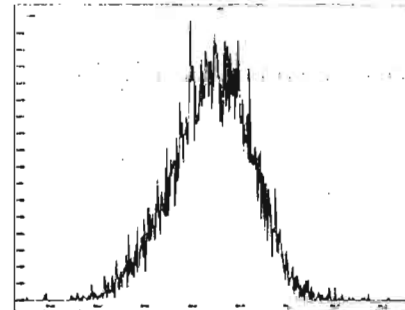
M 380.9760 R 10162



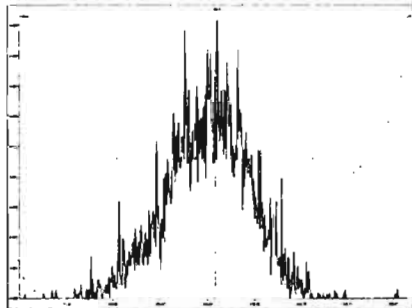
M 392.9760 R 10415



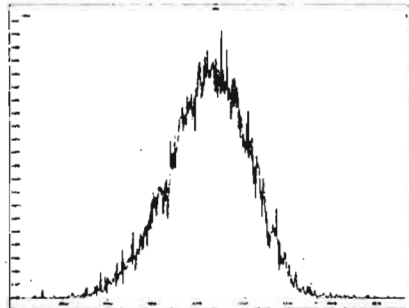
M 404.9760 R 11211



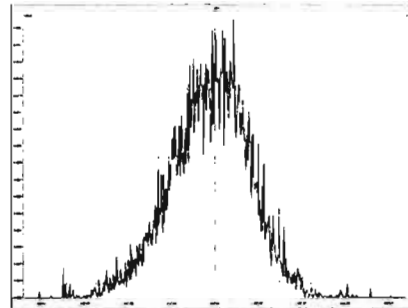
M 416.9760 R 11159



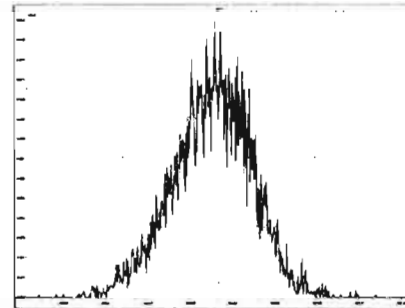
M 430.9728 R 10371



M 442.9728 R 11961



M 454.9728 R 12017



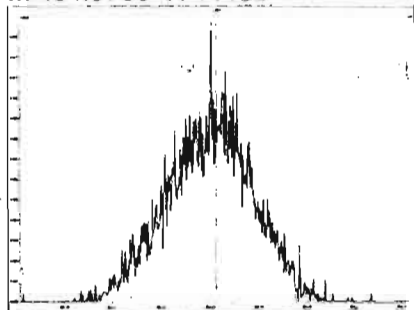
Experiment Calibration Report

MassLynx 4.1 SCN815

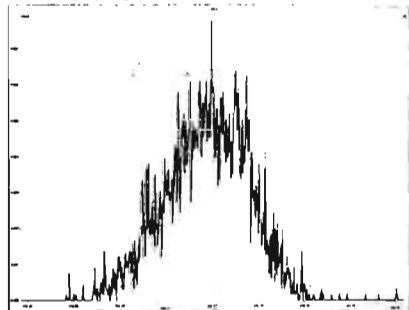
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 07:31:50 Pacific Daylight Time

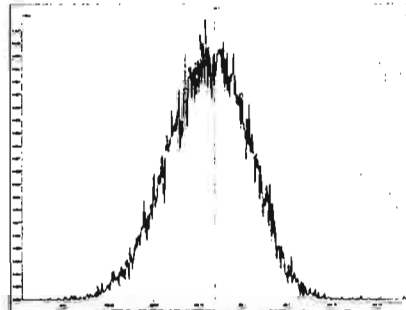
M 404.9760 R 11108



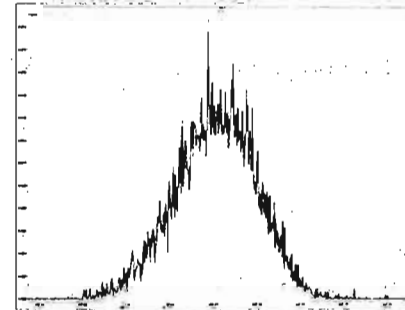
M 416.9760 R 11061



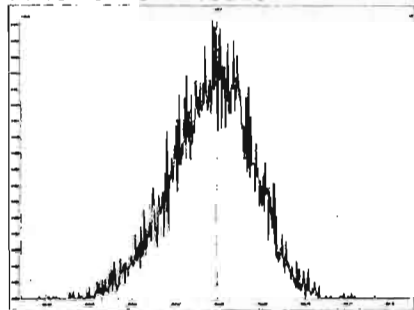
M 430.9728 R 10164



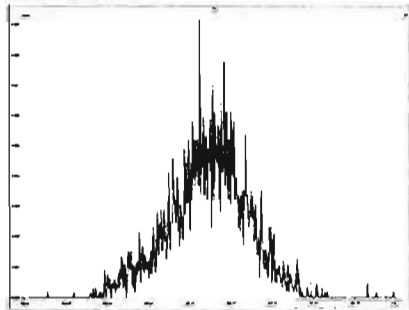
M 442.9728 R 10917



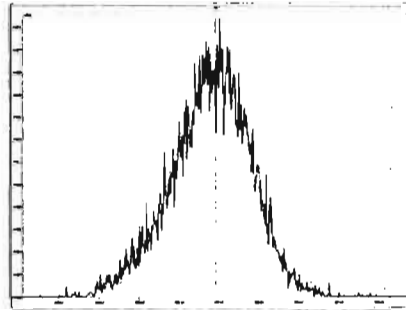
M 454.9728 R 10916



M 466.9728 R 11906



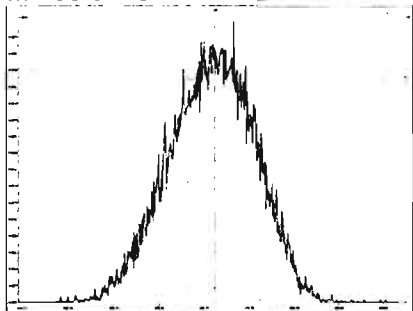
M 480.9696 R 10916



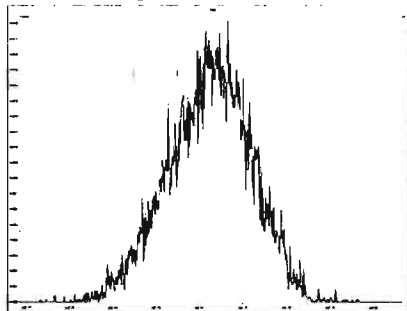
Reference: Pk.ref Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 07:32:15 Pacific Daylight Time

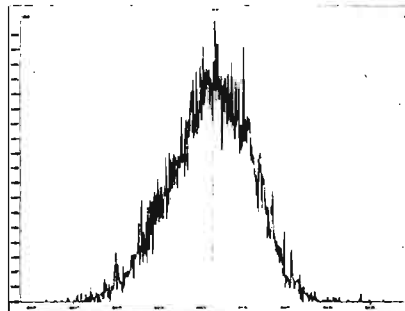
M 430.9728 R 10162



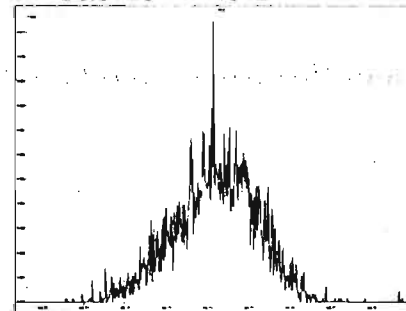
M 442.9728 R 10286



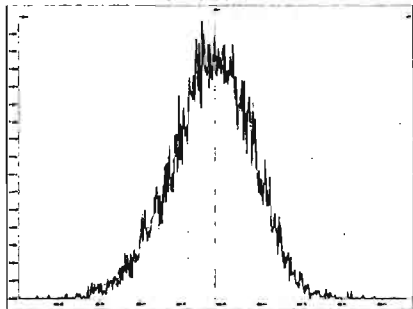
M 454.9728 R 10201



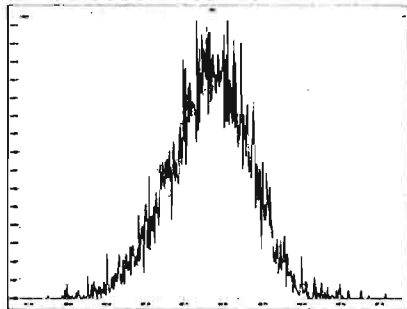
M 466.9728 R 11012



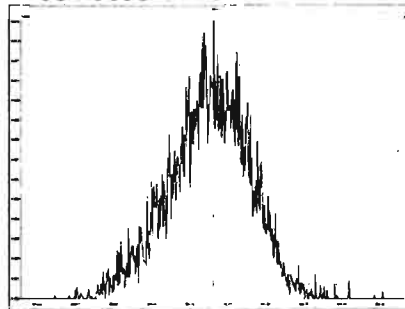
M 480.9696 R 10731



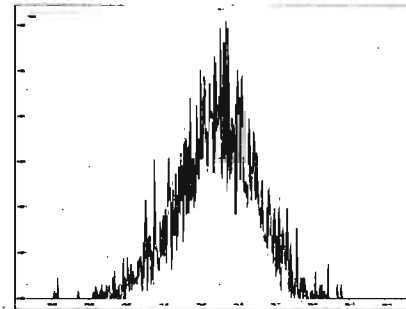
M 492.9696 R 10776



M 504.9696 R 11684



M 516.9697 R 12078



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200602R1-1

Reviewed By: C7 06/02/2020
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 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>	<u>GRB</u>			
<u>Run Log:</u>					
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox" value="V"/>			
- Samples within 12 hour clock?	<input)<="" checked="" td="" type="checkbox" value="V"/> <td style="text-align: center;"><input type="checkbox" value="N"/></td> <td colspan="2"></td>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<u>GRB</u>				

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-1.qld

Last Altered: Tuesday, June 02, 2020 09:23:03 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:23:56 Pacific Daylight Time

GRB 06/02/2020

CT 06/02/2020

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

Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_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	6.90e4	8.12e5	0.75	NO	0.888	26.52	26.51	NO	1.001	1.001	9.5552	95.6	NO
2	2 1,2,3,7,8-PeCDD	2.35e5	5.25e5	0.61	NO	0.908	31.47	31.47	NO	1.001	1.000	49.390	98.8	NO
3	3 1,2,3,4,7,8-HxCDD	1.81e5	3.58e5	1.25	NO	1.03	34.84	34.84	NO	1.000	1.000	48.797	97.6	NO
4	4 1,2,3,6,7,8-HxCDD	2.05e5	4.66e5	1.27	NO	0.892	34.93	34.94	NO	1.000	1.000	49.284	98.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.81e5	4.11e5	1.26	NO	0.887	35.22	35.23	NO	1.000	1.001	49.804	99.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.30e5	2.98e5	1.02	NO	0.864	38.76	38.76	NO	1.000	1.000	50.339	101	NO
7	7 OCDD	2.58e5	5.59e5	0.88	NO	0.914	41.73	41.74	NO	1.000	1.000	101.17	101	NO
8	8 2,3,7,8-TCDF	7.74e4	1.08e6	0.74	NO	0.751	25.63	25.61	NO	1.001	1.001	9.5197	95.2	NO
9	9 1,2,3,7,8-PeCDF	3.59e5	8.11e5	1.57	NO	0.893	30.19	30.18	NO	1.001	1.000	49.557	99.1	NO
10	10 2,3,4,7,8-PeCDF	3.56e5	7.70e5	1.55	NO	0.935	31.18	31.16	NO	1.001	1.000	49.419	98.8	NO
11	11 1,2,3,4,7,8-HxCDF	2.08e5	4.78e5	1.21	NO	0.884	33.95	33.96	NO	1.000	1.000	49.292	98.6	NO
12	12 1,2,3,6,7,8-HxCDF	2.37e5	5.48e5	1.22	NO	0.889	34.08	34.09	NO	1.000	1.001	48.680	97.4	NO
13	13 2,3,4,6,7,8-HxCDF	2.23e5	4.86e5	1.19	NO	0.934	34.69	34.68	NO	1.001	1.001	49.070	98.1	NO
14	14 1,2,3,7,8,9-HxCDF	1.75e5	3.92e5	1.20	NO	0.871	35.57	35.59	NO	1.000	1.001	51.397	103	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.56e5	3.59e5	1.00	NO	0.873	37.38	37.36	NO	1.001	1.001	49.778	99.6	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.19e5	2.34e5	0.99	NO	1.01	39.29	39.31	NO	1.000	1.001	50.237	100	NO
17	17 OCDF	2.66e5	6.66e5	0.87	NO	0.806	41.92	41.93	NO	1.000	1.000	98.917	98.9	NO
18	18 13C-2,3,7,8-TCDD	8.12e5	6.75e5	0.75	NO	1.16	26.52	26.48	NO	1.026	1.025	104.14	104	NO
19	19 13C-1,2,3,7,8-PeCDD	5.25e5	6.75e5	0.62	NO	0.849	31.71	31.45	NO	1.227	1.217	91.640	91.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.58e5	4.85e5	1.27	NO	0.779	34.83	34.83	NO	1.014	1.014	94.843	94.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.66e5	4.85e5	1.26	NO	1.02	34.94	34.93	NO	1.017	1.017	94.496	94.5	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.11e5	4.85e5	1.25	NO	0.903	35.21	35.21	NO	1.025	1.025	93.876	93.9	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.98e5	4.85e5	1.08	NO	0.689	38.74	38.74	NO	1.128	1.128	89.296	89.3	NO
24	24 13C-OCDD	5.59e5	4.85e5	0.89	NO	0.652	41.76	41.73	NO	1.216	1.215	176.73	88.4	NO
25	25 13C-2,3,7,8-TCDF	1.08e6	1.03e6	0.77	NO	1.06	25.56	25.60	NO	0.989	0.991	99.527	99.5	NO
26	26 13C-1,2,3,7,8-PeCDF	8.11e5	1.03e6	1.60	NO	0.838	30.09	30.17	NO	1.165	1.168	94.254	94.3	NO
27	27 13C-2,3,4,7,8-PeCDF	7.70e5	1.03e6	1.64	NO	0.817	31.05	31.15	NO	1.202	1.205	91.847	91.8	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.78e5	4.85e5	0.50	NO	1.01	33.96	33.95	NO	0.989	0.989	97.794	97.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.48e5	4.85e5	0.52	NO	1.17	34.08	34.07	NO	0.992	0.992	96.864	96.9	NO
30	30 13C-2,3,4,6,7,8-HpCDF	4.86e5	4.85e5	0.50	NO	1.02	34.66	34.65	NO	1.009	1.009	98.170	98.2	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.92e5	4.85e5	0.51	NO	0.860	35.56	35.57	NO	1.035	1.036	94.044	94.0	NO

Dataset: U:\VG12.PRO\Results\200602R1\200602R1-1.qld

Last Altered: Tuesday, June 02, 2020 09:23:03 Pacific Daylight Time
 Printed: Tuesday, June 02, 2020 09:23:56 Pacific Daylight Time

ID: ST Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_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	3.59e5	4.85e5	0.41	NO	0.774	37.31	37.34	NO	1.086	1.087	95.703	95.7	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.34e5	4.85e5	0.43	NO	0.521	39.34	39.29	NO	1.145	1.144	92.540	92.5	NO
34	34 13C-OCDF	6.66e5	4.85e5	0.89	NO	0.746	41.93	41.92	NO	1.221	1.220	184.21	92.1	NO
35	35 37Cl-2,3,7,8-TCDD	7.23e4	6.75e5			1.04	26.55	26.51	NO	1.028	1.028	10.335	103	NO
36	36 13C-1,2,3,4-TCDD	6.75e5	6.75e5	0.80	NO	1.00	25.89	25.84	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.03e6	1.03e6	0.77	NO	1.00	24.36	24.15	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,8-HxCDF	4.85e5	4.85e5	0.51	NO	1.00	34.42	34.35	NO	1.000	1.000	100.00	100	YES <i>off</i>

Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 2:06:04 PM Pacific Daylight Time

Printed: Tuesday, June 02, 2020 2:06:15 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

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

	Name	ID	Acq.Date	Acq.Time
1	200802R1_1	ST200802R1_1 1613 CS3 19L2305	02-Jun-20	08:30:22
2	200802R1_2	B0D0167-BS1 OPR 10	02-Jun-20	09:19:25
3	200802R1_3	SOLVENT BLANK	02-Jun-20	10:06:47
4	200802R1_4	2000855-12 PDI-057SC-A-12-13-191023 15.15	02-Jun-20	10:52:59
5	200802R1_5	2000855-13 PDI-062SC-A-11-12-191023 12.9	02-Jun-20	11:40:19
6	200802R1_6	2000855-14 PDI-062SC-A-12-13-191023 13.27	02-Jun-20	12:27:21
7	200802R1_7	2000855-15 PDI-076SC-A-06-07-191013 15.57	02-Jun-20	13:14:44

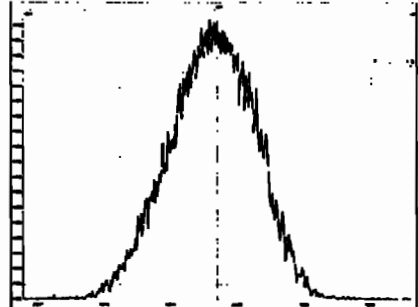
Experiment Calibration Report

MassLynx 4.1 SCN815

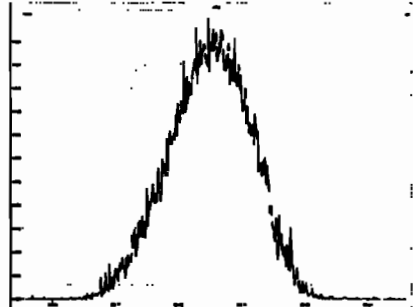
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 08:24:35 Pacific Daylight Time

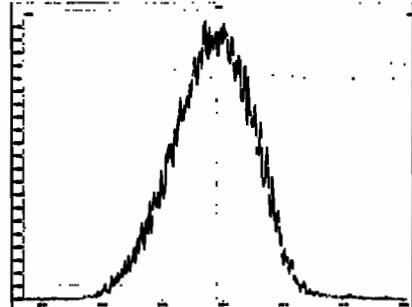
M 292.9824 R 10079



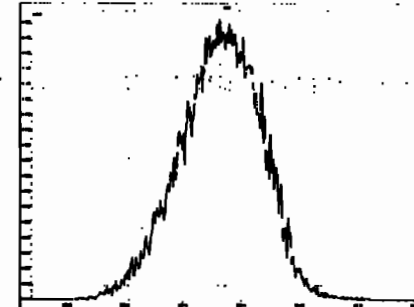
M 304.9824 R 10332



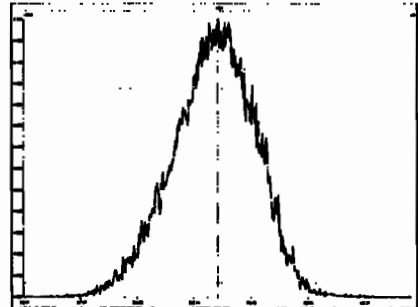
M 318.9792 R 10121



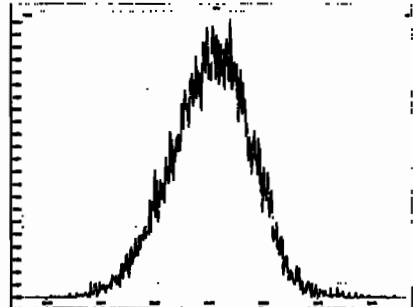
M 330.9792 R 10286



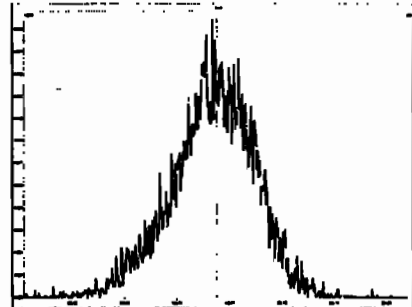
M 342.9792 R 10417



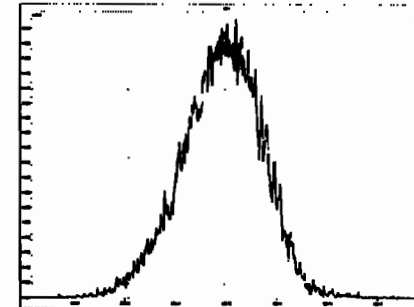
M 354.9792 R 11060



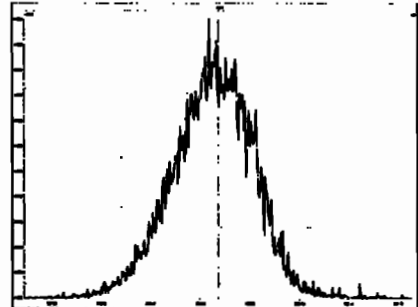
M 366.9792 R 10549



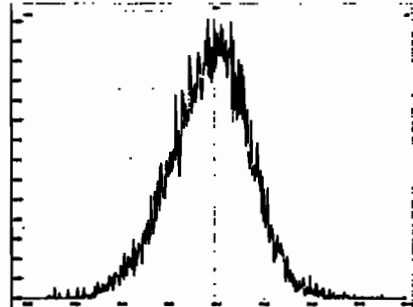
M 380.9760 R 10775



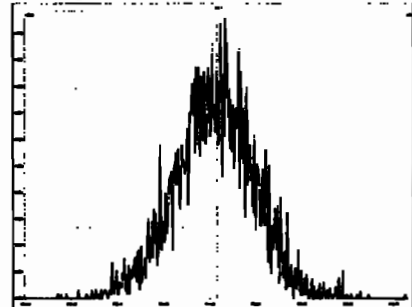
M 392.9760 R 10328



M 404.9760 R 10548



M 416.9760 R 11739



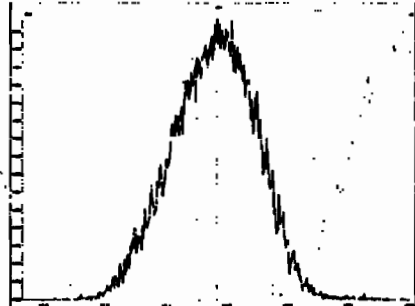
Experiment Calibration Report

MassLynx 4.1 SCN815

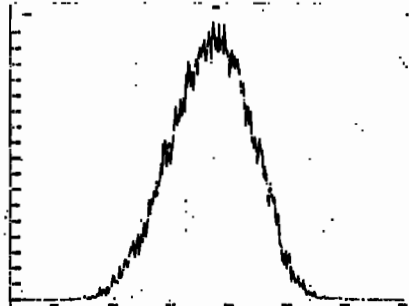
Files: OCDD_DB5.exp Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 08:25:18 Pacific Daylight Time

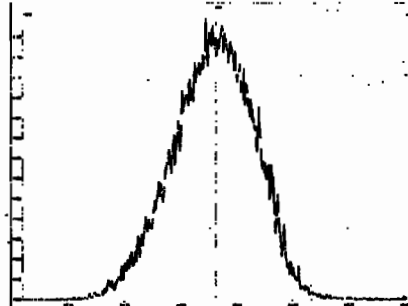
M 318.9792 R 10374



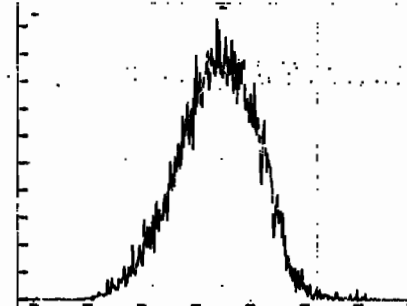
M 330.9792 R 10203



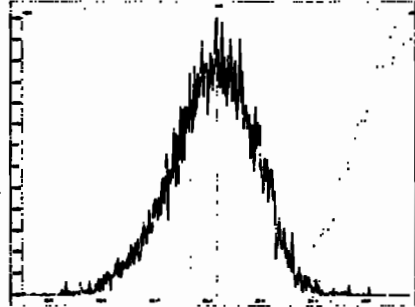
M 342.9792 R 10413



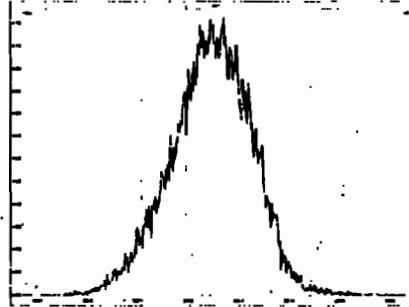
M 354.9792 R 10869



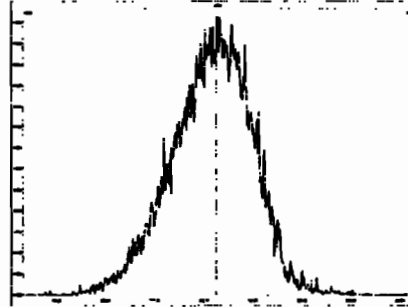
M 366.9792 R 10546



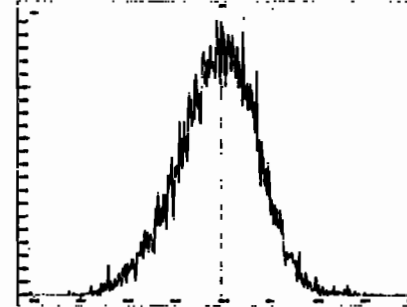
M 380.9760 R 10000



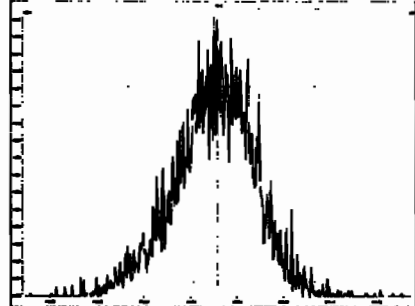
M 392.9760 R 10825



M 404.9760 R 10545



M 416.9760 R 11466



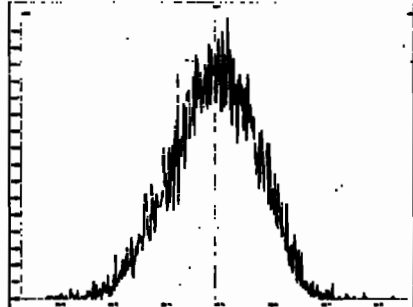
Experiment Calibration Report

MassLynx 4.1 SCN815

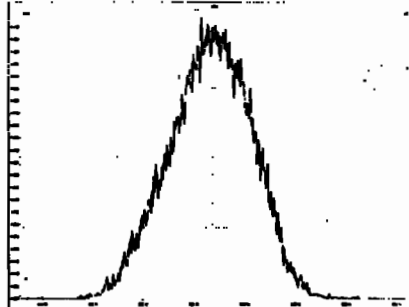
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 08:25:43 Pacific Daylight Time

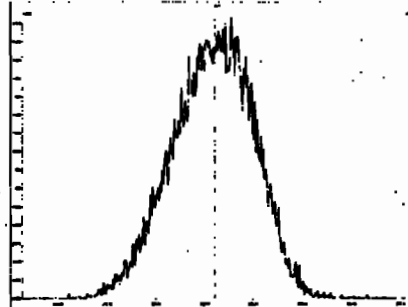
M 366.9792 R 10123



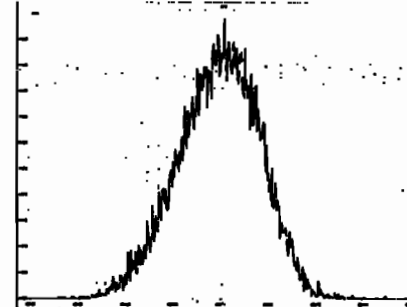
M 380.9760 R 10417



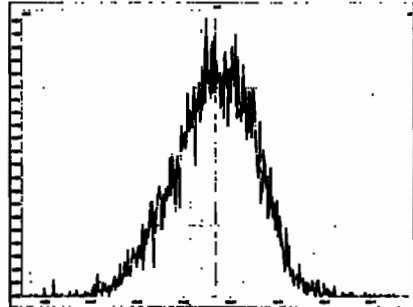
M 392.9760 R 10415



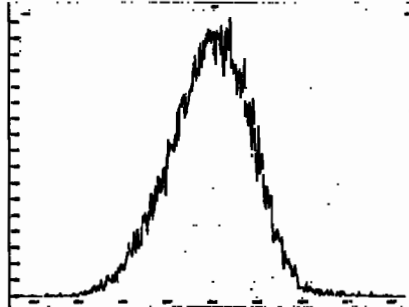
M 404.9760 R 10680



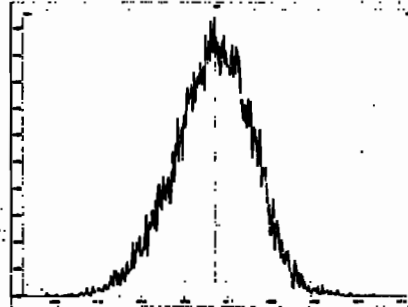
M 416.9760 R 10729



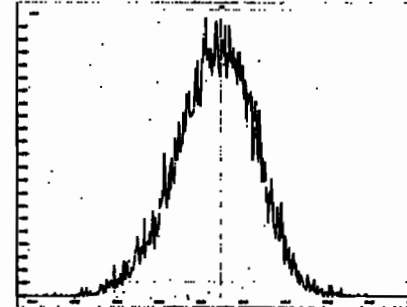
M 430.9728 R 10082



M 442.9728 R 11157



M 454.9728 R 10824

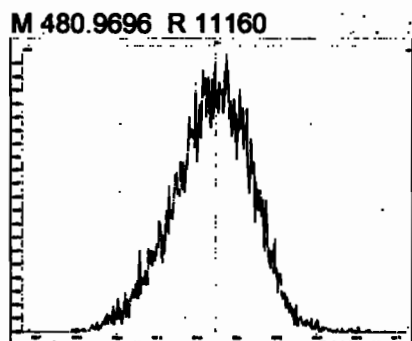
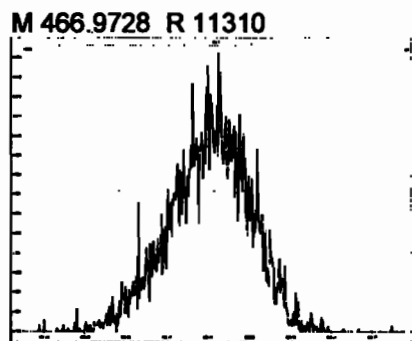
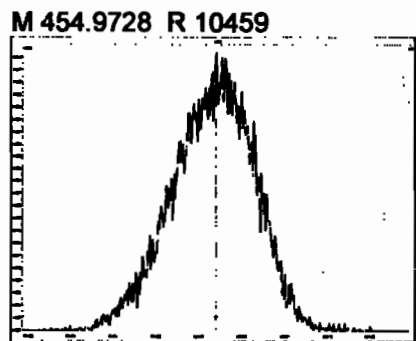
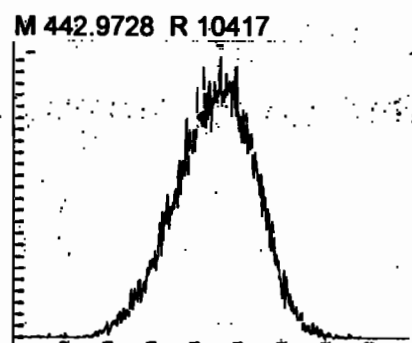
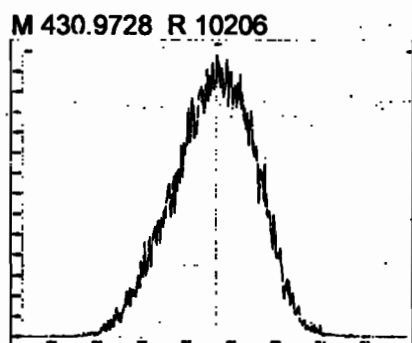
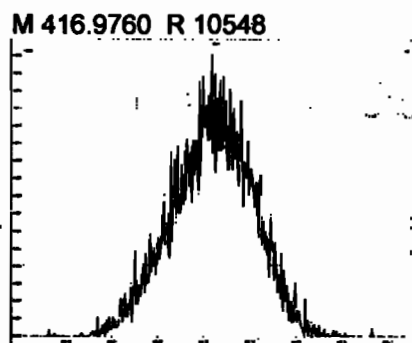
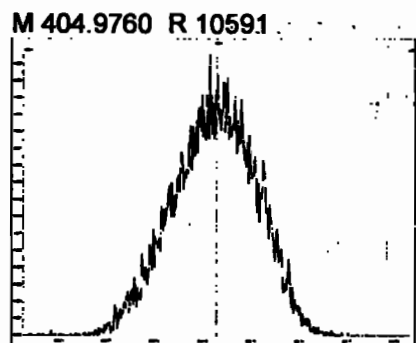


Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

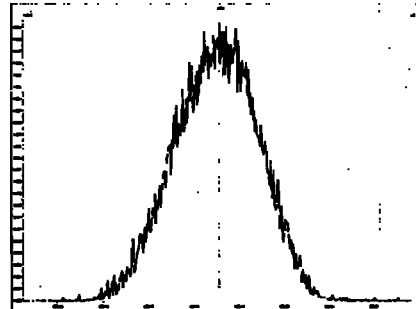
Printed: Tuesday, June 02, 2020 08:26:10 Pacific Daylight Time



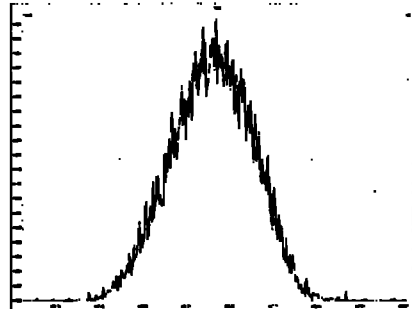
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 08:26:35 Pacific Daylight Time

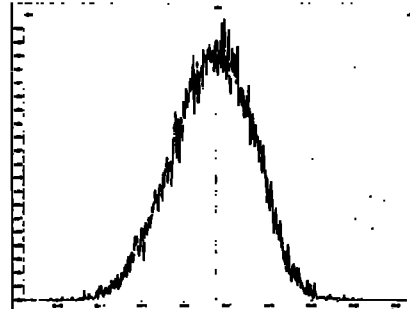
M 430.9728 R 10374



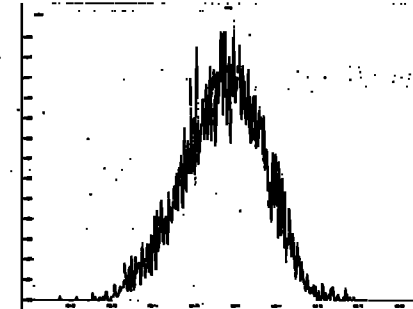
M 442.9728 R 10682



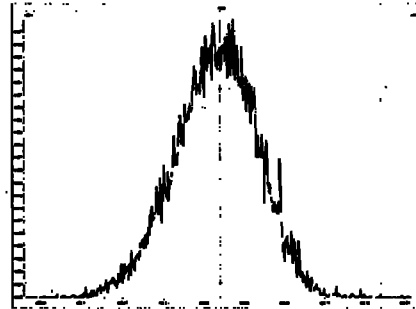
M 454.9728 R 10414



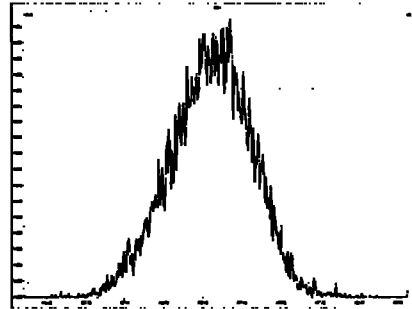
M 466.9728 R 11210



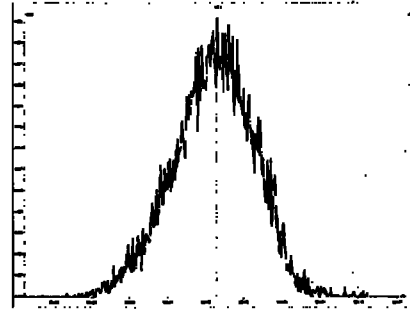
M 480.9696 R 10332



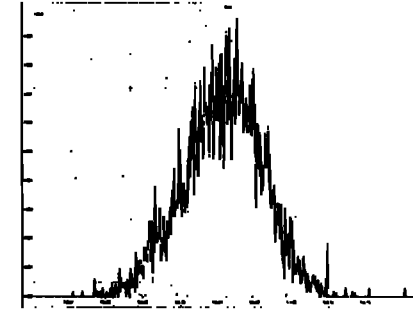
M 492.9696 R 10590



M 504.9696 R 10372



M 516.9697 R 11364



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 09:18:05 Pacific Daylight Time

Printed: Tuesday, June 02, 2020 09:18:27 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: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.49
2	2 1,2,8,9-TCDD (Last)	27.47
3	3 1,2,4,7,9-PeCDD (First)	29.25
4	4 1,2,3,8,9-PeCDD (Last)	31.85
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)	37.75
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.76
9	9 1,3,6,8-TCDF (First)	20.35
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)	32.09
13	13 1,2,3,4,6,8-HxCDF (First)	32.79
14	14 1,2,3,7,8,9-HxCDF (Last)	35.59
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.36
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

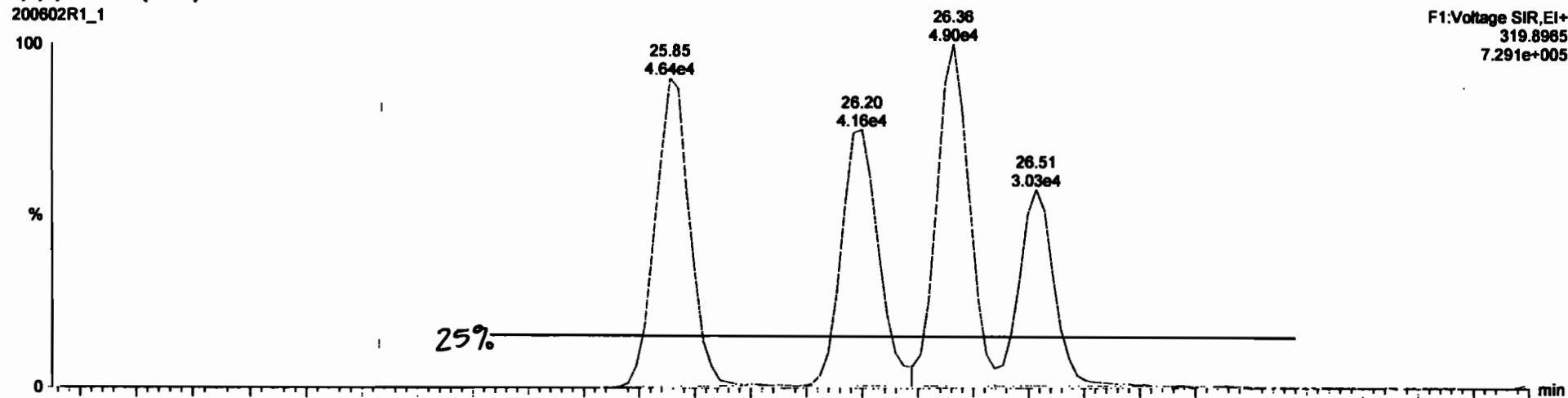
Last Altered: Tuesday, June 02, 2020 09:18:05 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:18:27 Pacific Daylight Time

GRB 06/02/2020

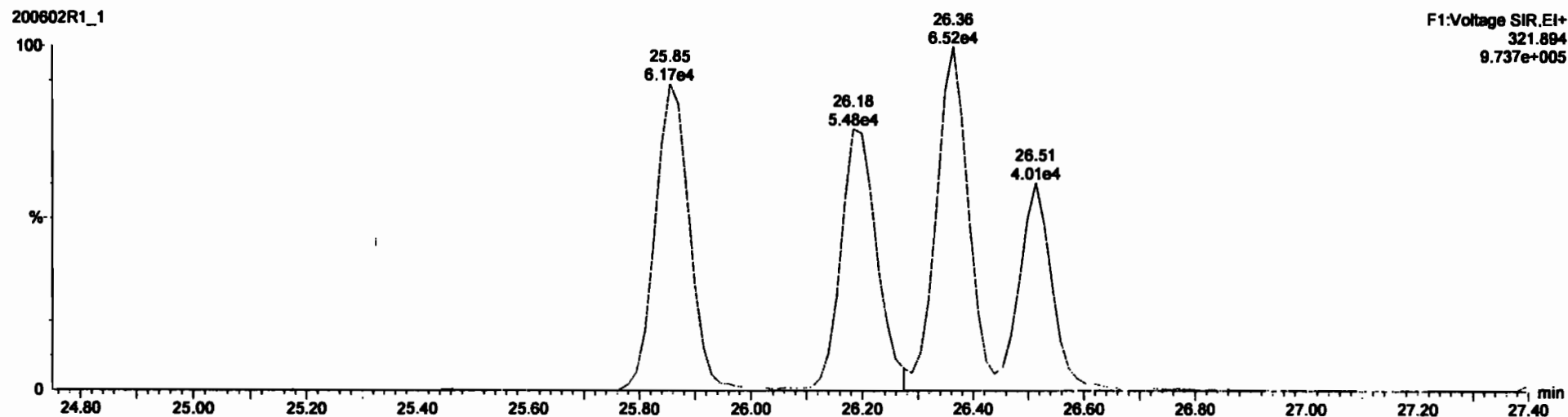
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200602R1_1



F1:Voltage SIR.EI+
319.8985
7.291e+005



F1:Voltage SIR.EI+
321.894
9.737e+005

Dataset: Untitled

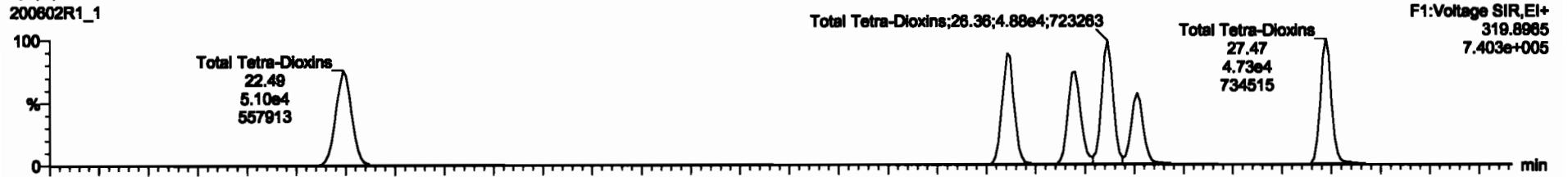
Last Altered: Tuesday, June 02, 2020 09:19:48 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:20:02 Pacific Daylight Time

Method: U:\VG12.PROMethDB\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

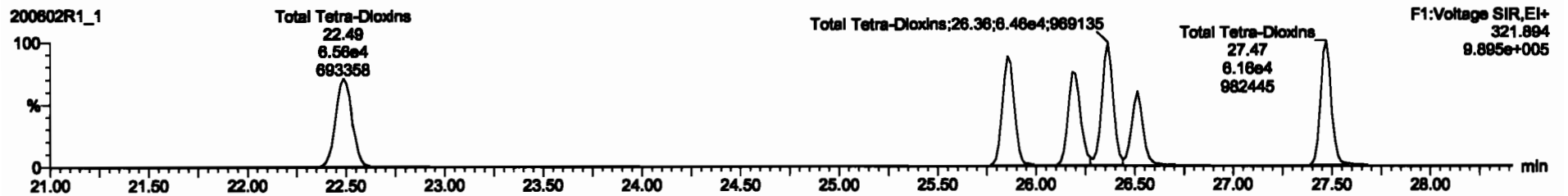
Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200602R1_1

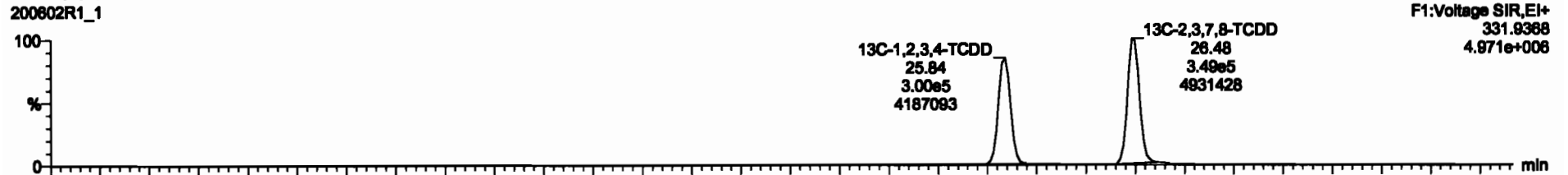


200602R1_1

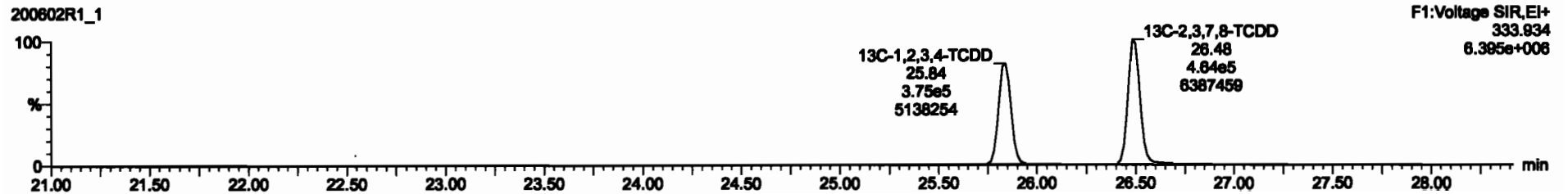


13C-2,3,7,8-TCDD

200602R1_1



200602R1_1

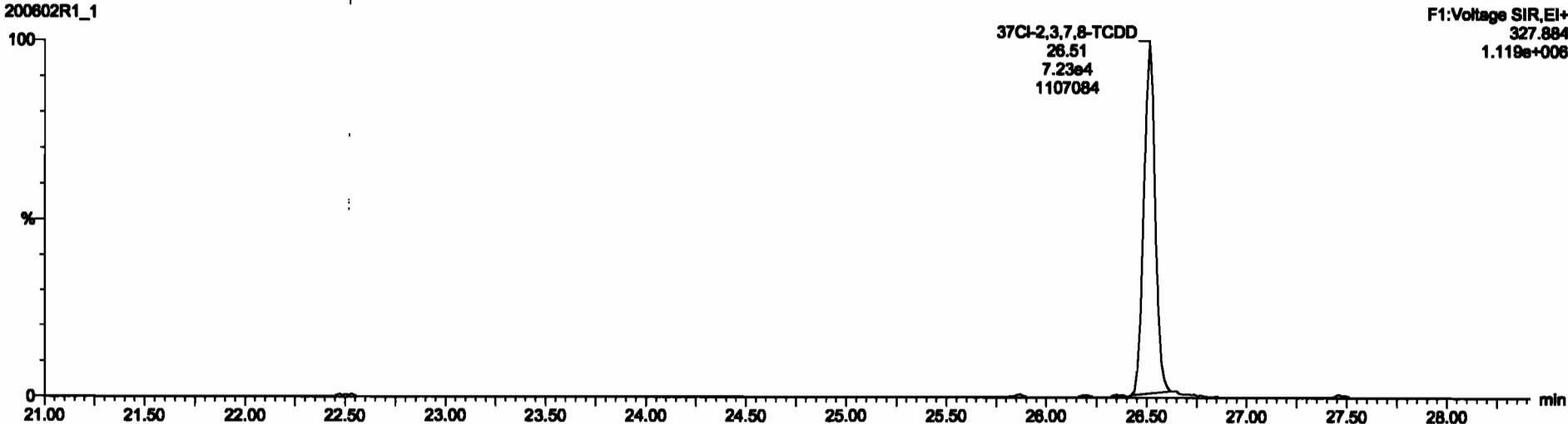


Dataset: Untitled

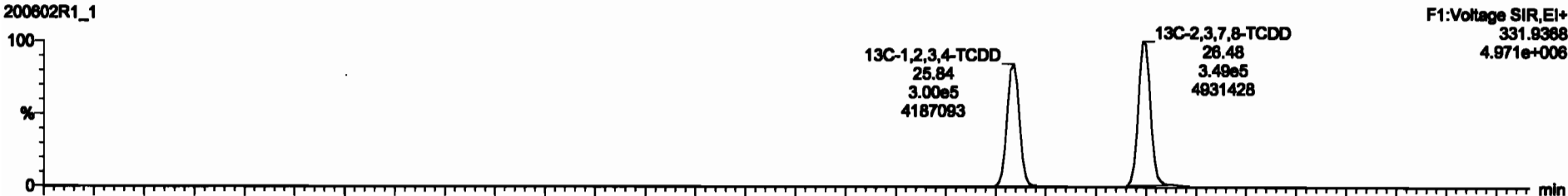
Last Altered: Tuesday, June 02, 2020 09:19:48 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:20:02 Pacific Daylight Time

Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

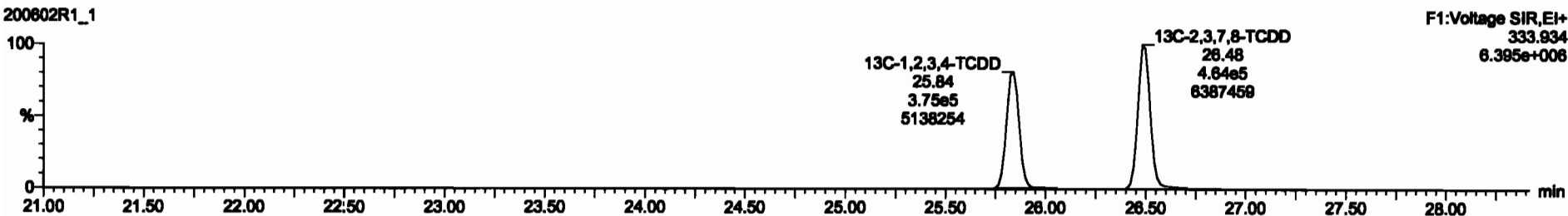
37Cl-2,3,7,8-TCDD
200602R1_1



13C-1,2,3,4-TCDD
200602R1_1



200602R1_1



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 09:19:48 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:20:02 Pacific Daylight Time

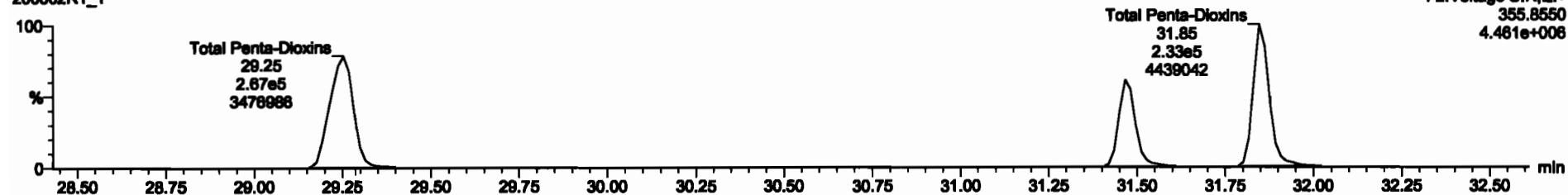
Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200602R1_1

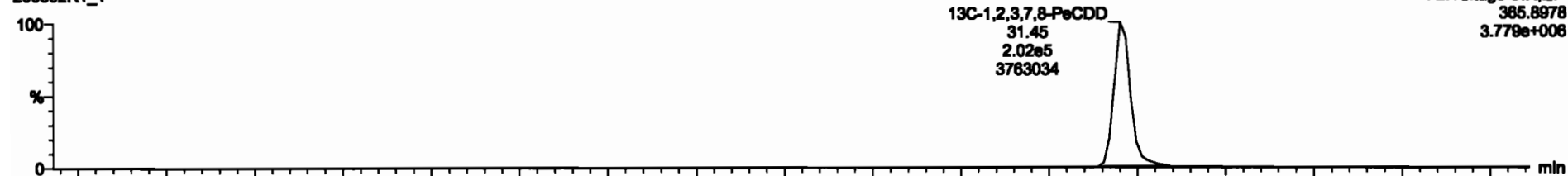


200602R1_1

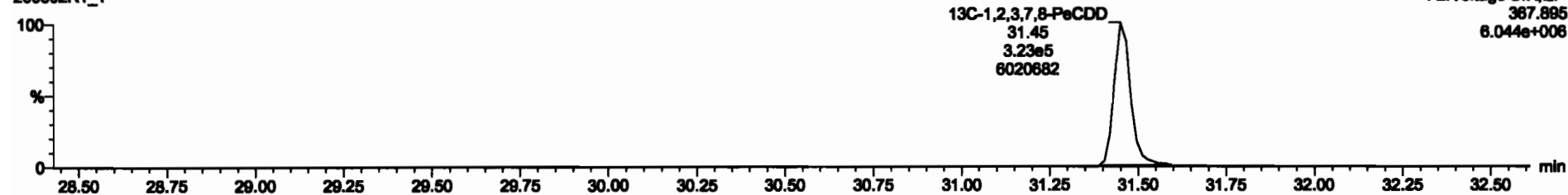


13C-1,2,3,7,8-PeCDD

200602R1_1



200602R1_1



Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 09:19:48 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:20:02 Pacific Daylight Time

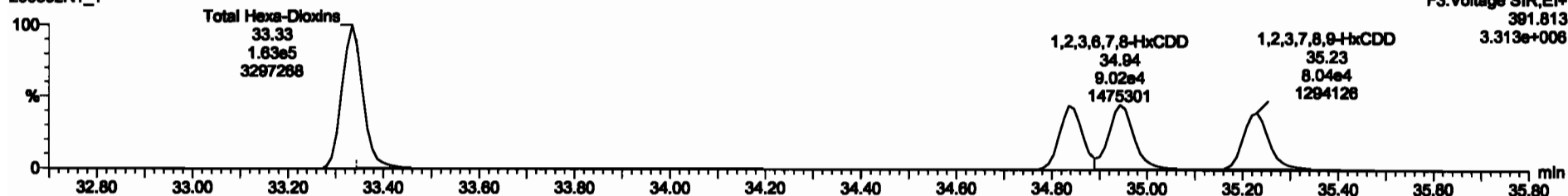
Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200602R1_1



200602R1_1

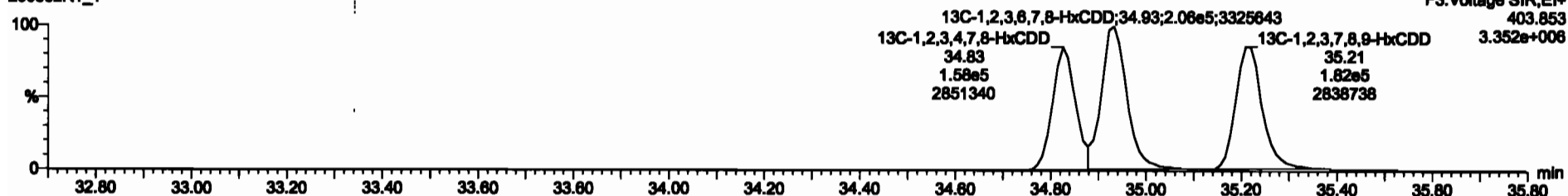


13C-1,2,3,4,7,8-HxCDD

200602R1_1



200602R1_1



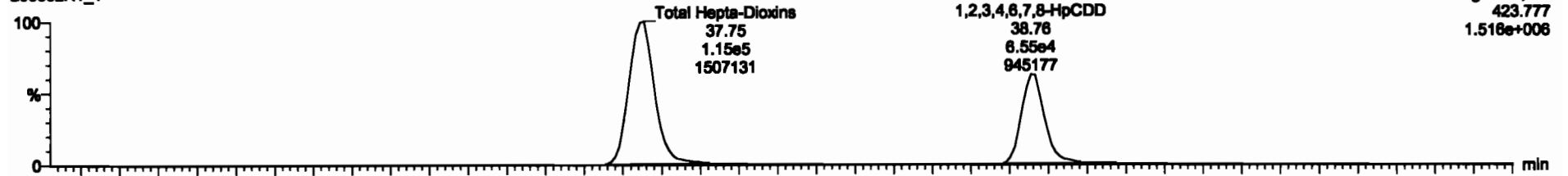
Dataset: Untitled

Last Altered: Tuesday, June 02, 2020 09:19:48 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:20:02 Pacific Daylight Time

Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

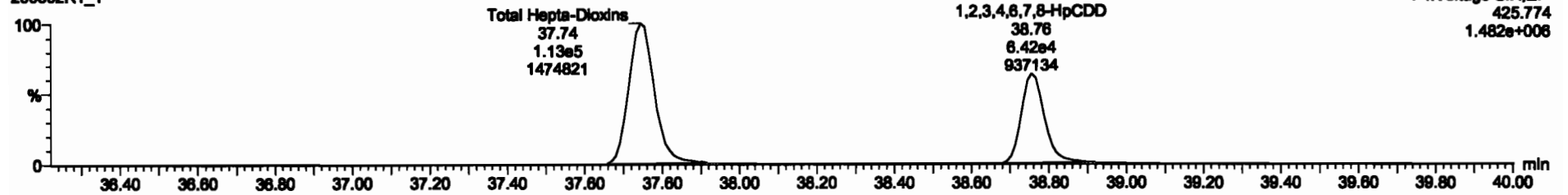
1,2,3,4,6,7,8-HpCDD

200602R1_1



F4:Voltage SIR,EI+
423.777
1.516e+006

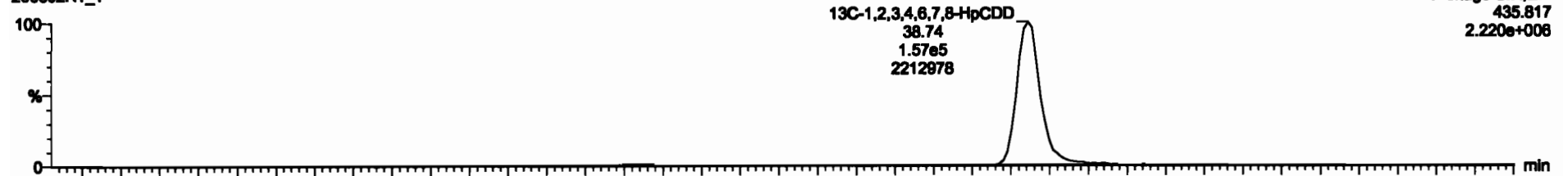
200602R1_1



F4:Voltage SIR,EI+
425.774
1.482e+006

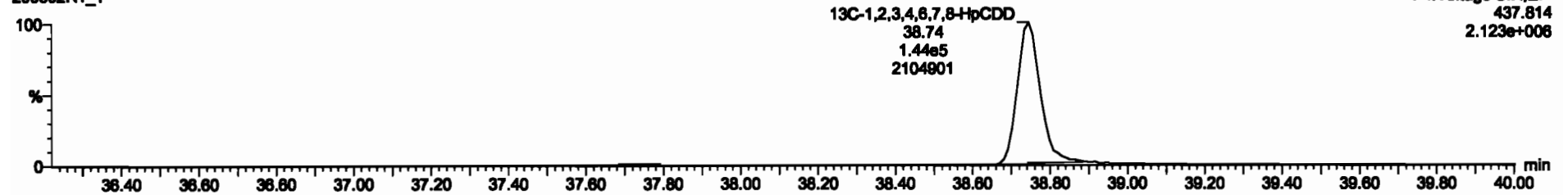
13C-1,2,3,4,6,7,8-HpCDD

200602R1_1



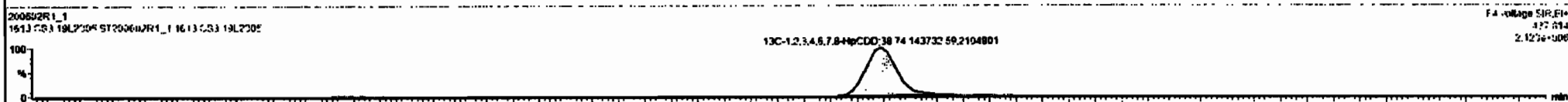
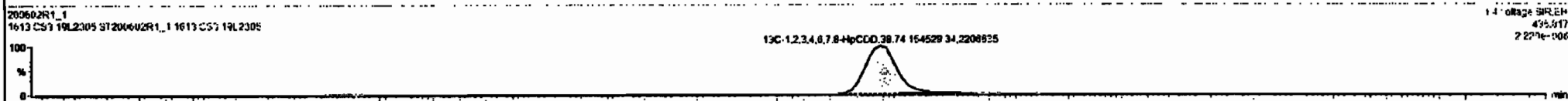
F4:Voltage SIR,EI+
435.817
2.220e+006

200602R1_1



F4:Voltage SIR,EI+
437.814
2.123e+006

Name	Resp	RA	aly	RPF	u/wt	RT	RRT	Comp.	%Rec.	DL	EMPC
1 2,3,7,8-TCDF	6.98e4	0.75	NO	0.89	1.000	26.81	1.001	9.50	95.8	0.0473	9.56
2 1,2,3,7,8-PeCDF	2.35e2	0.81	NO	0.91	1.000	31.47	1.000	49.4	98.5	0.117	45.4
3 1,2,3,4,7,8-HxCDD	1.81e2	1.25	NO	1.03	1.000	34.84	1.000	48.8	97.6	0.210	46.8
4 1,2,3,6,7,8-HxCDD	2.85e5	1.27	NO	0.88	1.000	34.84	1.000	49.3	98.8	0.202	46.7
5 1,2,3,7,8,9-HxCDD	1.84e5	1.26	NO	0.88	1.000	35.22	1.001	48.8	99.8	0.237	45.8
6 1,2,3,4,6,7,8-HpCDD	1.89e5	1.89	NO	0.89	1.000	38.70	1.000	48.3	100	0.258	38.3
7 OCDF	2.87e5	0.88	NO	0.91	1.000	41.74	1.000	101	101	0.258	101
8 2,3,7,8-TCDF	7.74e4	0.74	NO	0.77	1.000	25.61	1.001	9.52	98.2	0.0376	9.52
9 1,2,3,7,8-PeCDF	2.58e5	1.57	NO	0.89	1.000	30.16	1.000	48.6	99.1	0.102	48.6
10 2,3,4,7,8-PeCDF	2.56e5	1.55	NO	0.93	1.000	31.16	1.000	49.4	98.2	0.104	49.4
11 1,2,3,4,7,8-HxCDF	2.80e5	1.21	NO	0.88	1.000	33.95	1.000	49.3	98.6	0.211	49.3
12 1,2,3,6,7,8-HxCDF	2.37e5	1.22	NO	0.89	1.000	34.00	1.001	48.7	97.4	0.192	48.7
13 2,3,4,6,7,8-HxCDF	2.23e5	1.18	NO	0.93	1.000	34.68	1.001	49.1	98.1	0.220	49.1
14 1,2,3,7,8,9-HxCDF	1.75e5	1.18	NO	0.87	1.000	35.50	1.001	51.3	103	0.328	51.3
15 1,2,3,4,6,7,8-HpCDF	1.56e5	1.80	NO	0.87	1.000	37.36	1.001	48.8	98.8	0.182	48.8
16 1,2,3,4,7,8,9-HpCDF	1.21e5	1.82	NO	1.01	1.000	39.31	1.001	61.1	102	0.179	61.1
17 OCDF	2.86e5	0.87	NO	0.81	1.000	41.83	1.000	98.9	98.9	0.170	98.9
18 13C-2,3,7,8-TCDD	6.12e5	0.75	NO	1.16	1.000	26.48	1.025	104	104	0.181	
19 13C-1,2,3,7,8-PeCDD	7.22e5	0.82	NO	0.85	1.000	31.45	1.217	91.6	91.6	0.137	
20 13C-1,2,3,4,7,8-HxCDD	2.58e5	1.27	NO	0.78	1.000	34.83	1.014	94.8	94.8	0.270	
21 13C-1,2,3,6,7,8-HxCDD	4.86e5	1.28	NO	1.02	1.000	34.92	1.017	94.5	94.5	0.207	



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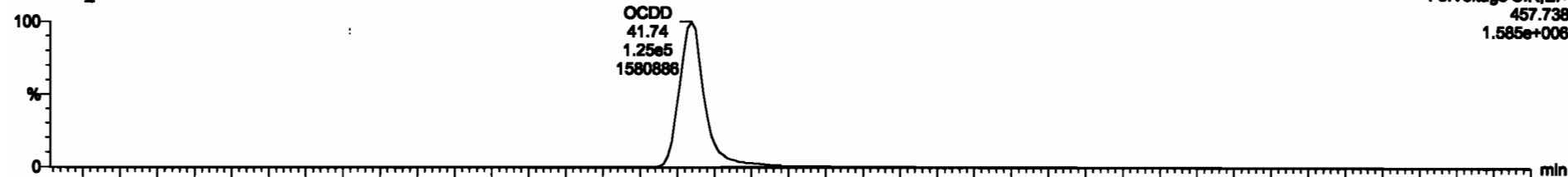
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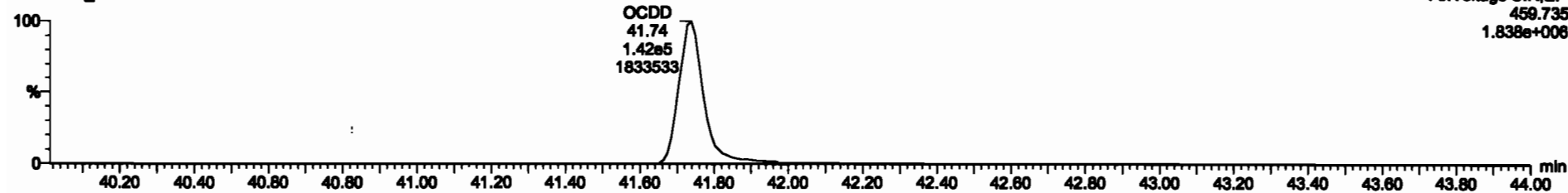
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OCDD

200602R1_1

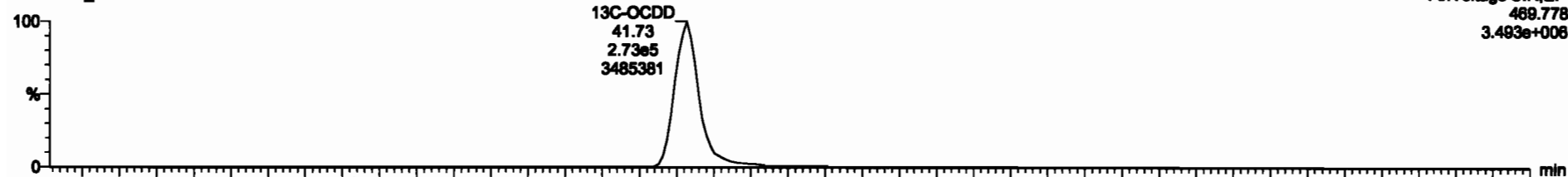


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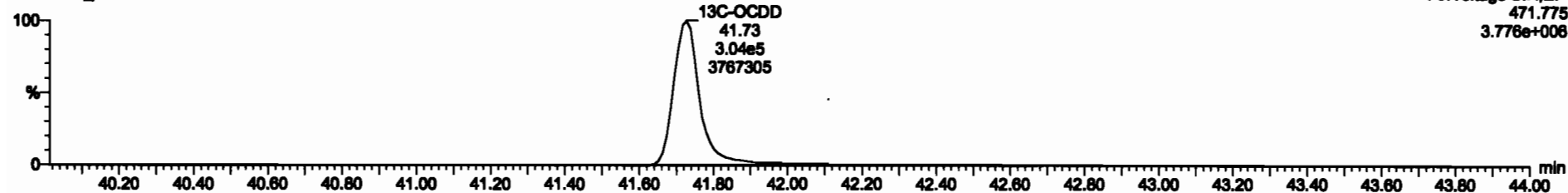


13C-OCDD

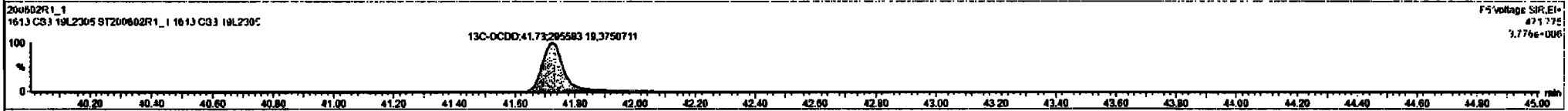
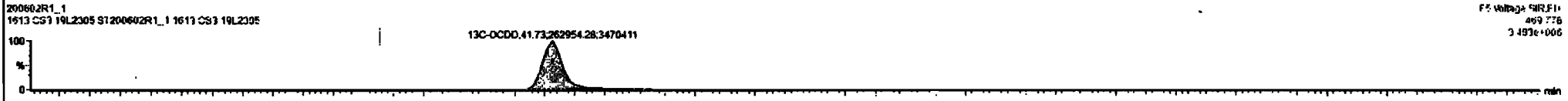
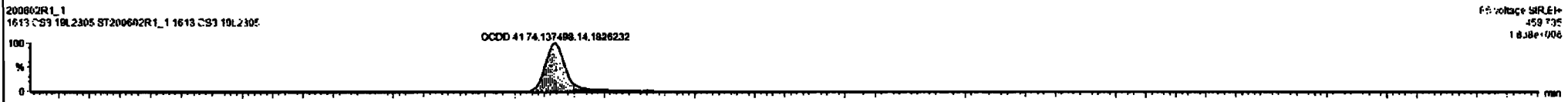
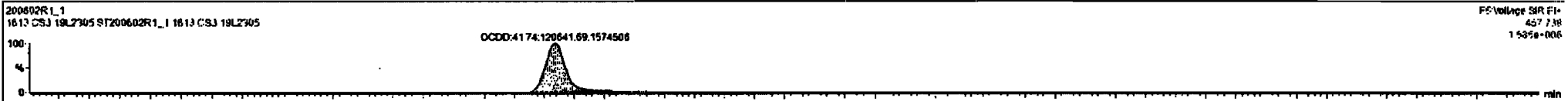
200602R1_1



200602R1_1



#	Name	Resp	RA	adj	RRF	unit	RT	RRF	Comp	WRec	DL	EMPC
1	2,3,7,8-TCDD	6.00e4	0.75	NO	0.89	1.000	26.51	1.001	9.58	96.8	0.8473	9.56
2	1,2,3,7,8-PeCDD	2.35e5	0.81	HC	3.91	1.000	31.47	1.000	48.4	98.3	0.117	49.4
3	1,2,3,4,7,8-HxCDD	1.81e5	1.25	NO	1.03	1.000	34.84	1.000	48.8	97.6	0.210	46.8
4	1,2,3,6,7,8-HxCDD	2.85e5	1.27	NO	0.89	1.000	34.84	1.000	49.3	98.8	0.262	49.3
5	1,2,3,7,8,9-HxCDD	1.84e5	1.26	NO	0.89	1.000	35.23	1.001	48.8	98.6	0.237	46.8
6	1,2,3,4,6,7,8-HpCDD	1.36e5	1.02	NO	0.86	1.000	35.76	1.000	50.3	101	0.228	50.3
7	OCDD	3.00e5	0.80	NO	1.00	1.000	41.89	1.000	96.9	98.9	0.170	95.9
8	2,3,7,8-TCDF	7.74e4	0.74	NO	0.75	1.000	25.61	1.001	9.52	95.2	0.8376	9.52
9	1,2,3,7,8-PeCDF	2.58e5	1.57	NO	0.89	1.000	30.16	1.000	48.8	98.1	0.162	49.6
10	2,3,4,7,8-PeCDF	3.56e5	1.55	NO	0.93	1.000	31.16	1.000	49.4	98.8	0.104	49.4
11	1,2,3,4,7,8-HxCDF	2.08e5	1.21	NO	0.88	1.000	33.86	1.000	48.3	98.6	0.211	49.3
12	1,2,3,6,7,8-HxCDF	2.37e5	1.22	NO	0.89	1.000	34.00	1.001	48.7	97.4	0.195	48.7
13	2,3,4,6,7,8-HxCDF	2.23e5	1.19	NO	0.93	1.000	34.68	1.001	49.1	98.1	0.220	49.1
14	1,2,3,7,8,9-HxCDF	1.75e5	1.19	NO	0.87	1.000	35.56	1.001	51.3	103	0.328	51.3
15	1,2,3,4,6,7,8-HpCDF	1.56e5	1.00	NO	0.87	1.000	37.36	1.001	48.8	98.6	0.162	49.6
16	1,2,3,4,7,8,9-HpCDF	1.21e5	1.02	NO	1.01	1.000	39.31	1.001	51.1	102	0.179	51.1
17	OCDF	2.86e5	0.87	NO	0.81	1.000	41.83	1.000	96.9	98.9	0.170	95.9
18	13C-2,3,7,8-TCDD	6.12e5	0.75	NO	1.16	1.000	26.48	1.025	104	104	0.101	
19	13C-1,2,3,7,8-PeCDD	5.25e5	0.82	NO	0.85	1.000	31.45	1.217	91.6	91.6	0.137	
20	13C-1,2,3,4,7,8-HxCDD	3.58e5	1.27	NO	0.78	1.000	34.83	1.014	84.8	84.8	0.270	
21	13C-1,2,3,6,7,8-HxCDD	4.66e5	1.26	NO	1.02	1.000	34.83	1.017	84.5	84.5	0.287	



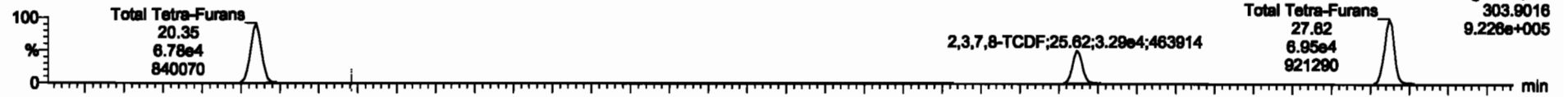
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Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200602R1_1



200602R1_1

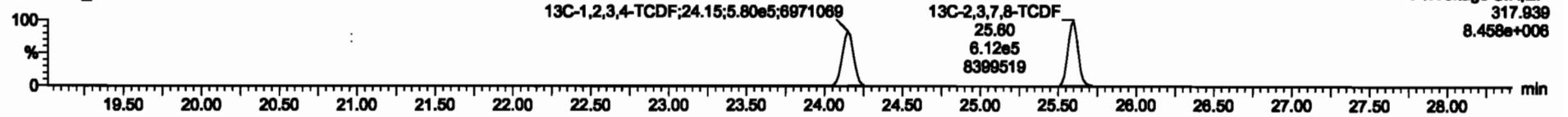


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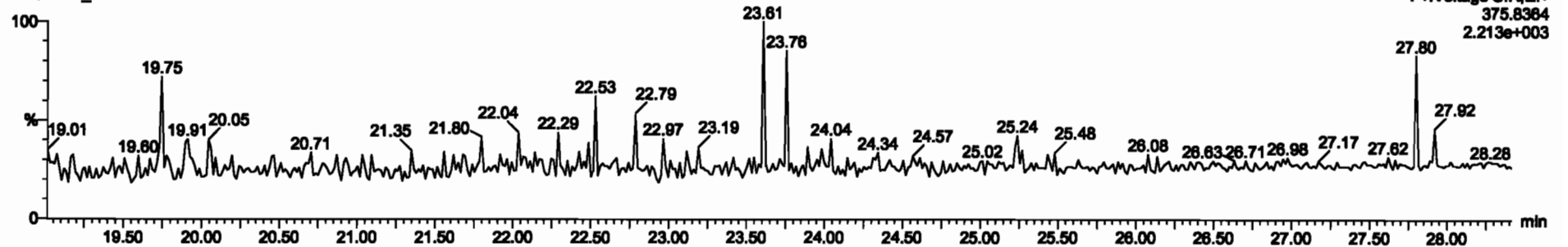


200602R1_1



DPE1

200602R1_1



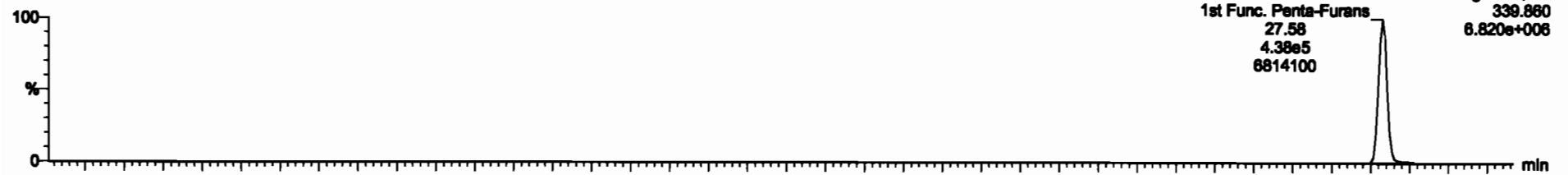
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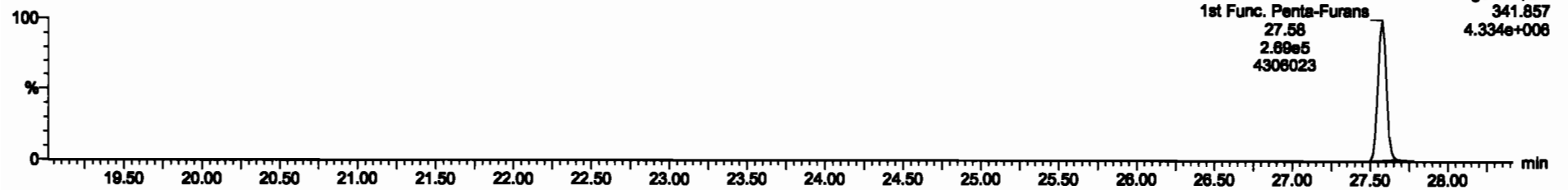
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200602R1_1

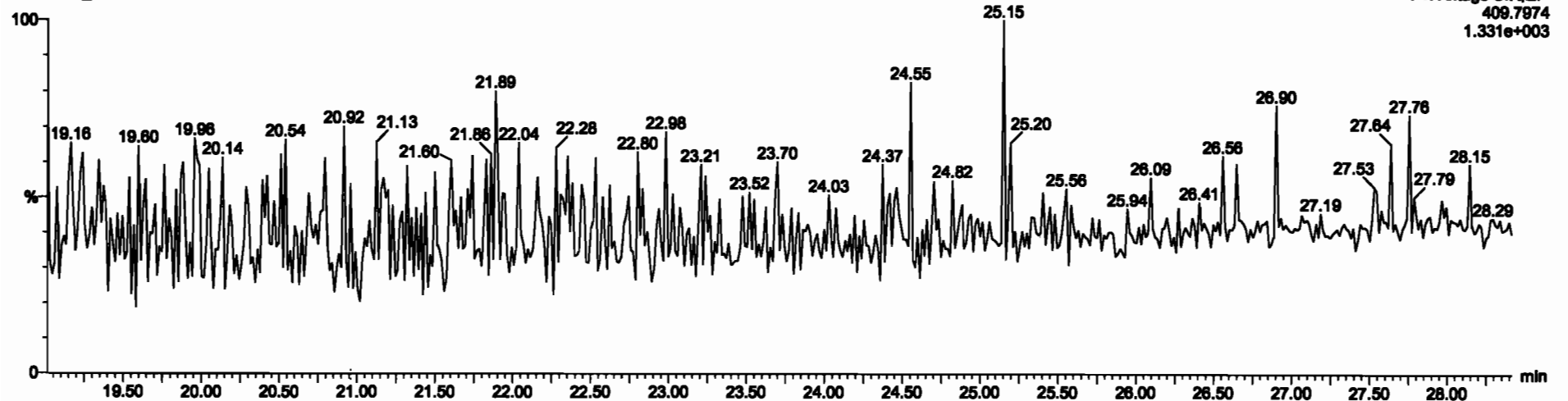


200602R1_1



DPE6

200602R1_1



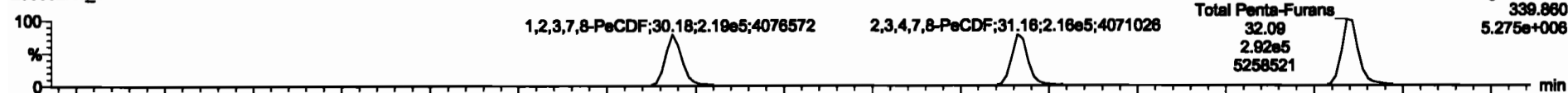
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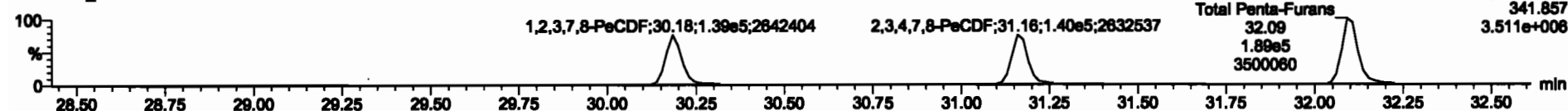
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1,2,3,7,8-PeCDF

200602R1_1



200602R1_1

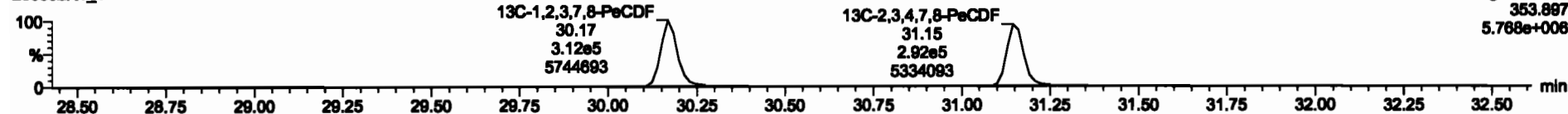


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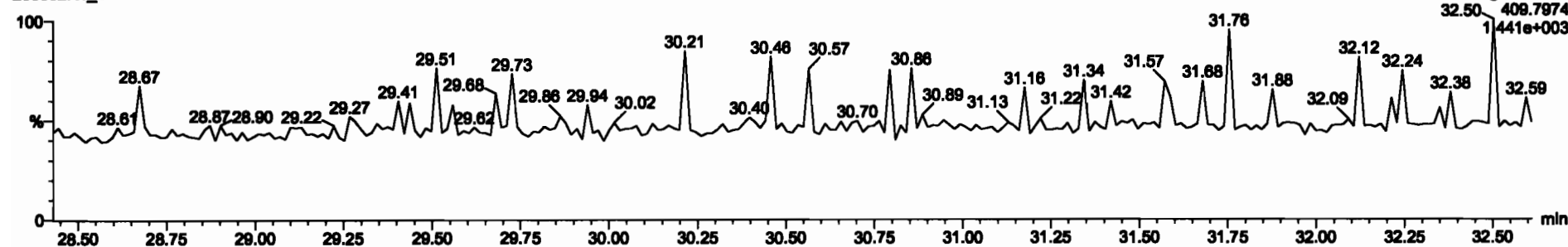


200602R1_1



DPE2

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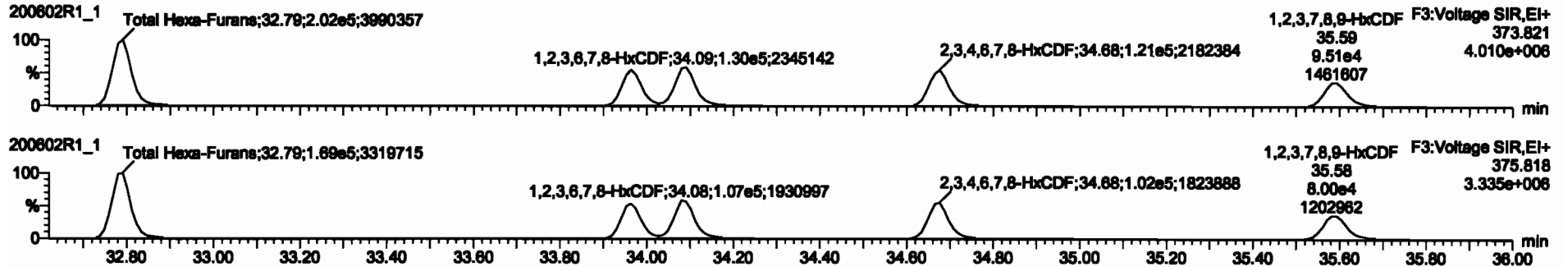


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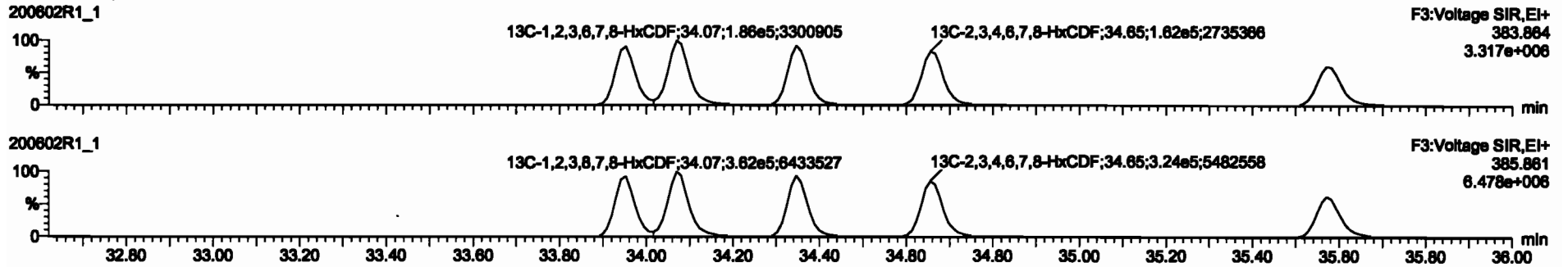
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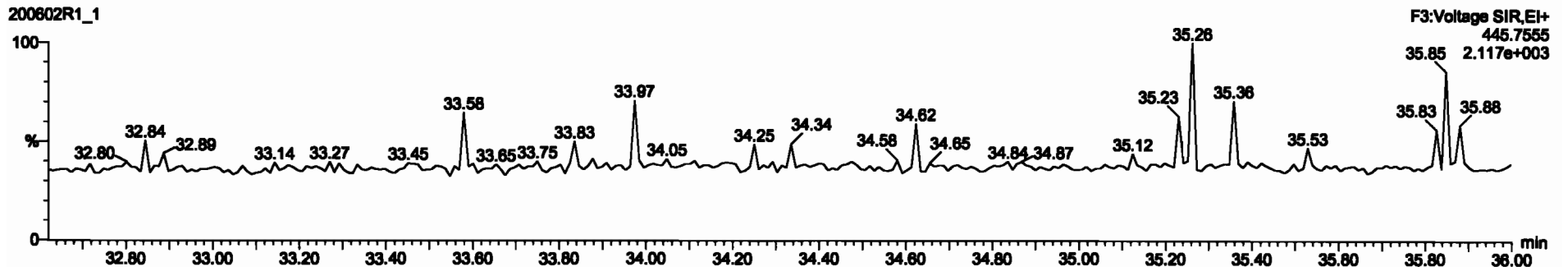
1,2,3,4,7,8-HxCDF



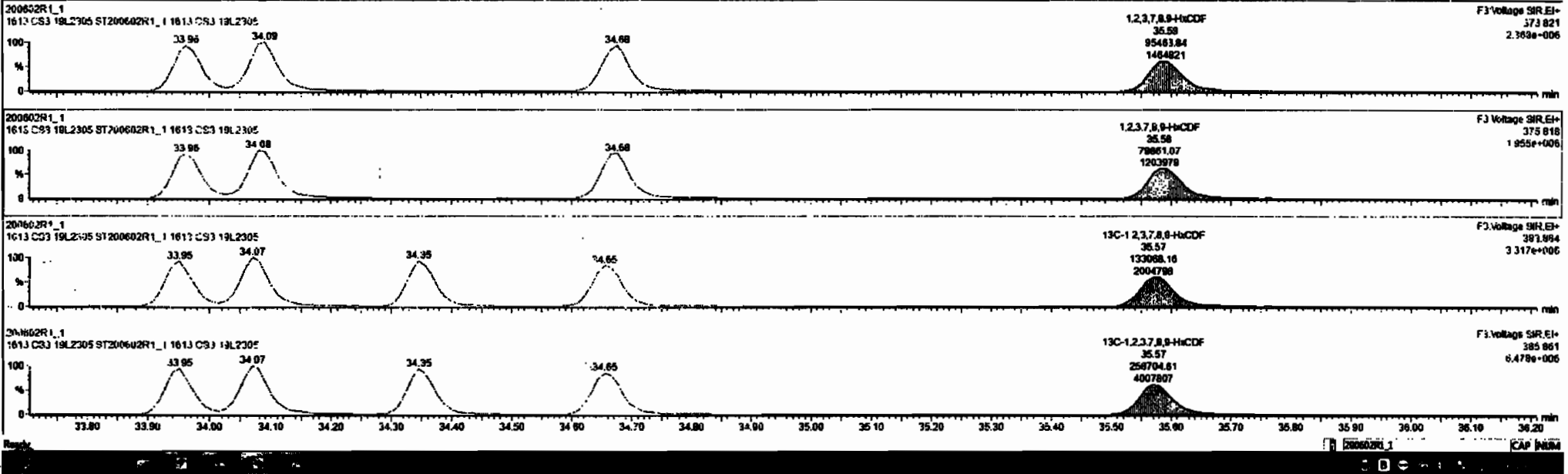
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DPE3



Name	Resp.	RA	dy	RRF	Label	RT	RRT	Curc.	%Rec.	DL	EMPF
1 2,3,7,8-TCDD	4.08e4	0.75	NO	0.89	1.000	28.51	1.001	9.56	95.0	0.8473	9.56
2 1,2,3,7,8-PeCDD	2.35e7	0.61	NO	0.61	1.000	31.47	1.000	49.4	96.8	0.117	48.4
3 1,2,3,4,7,8-HxCDD	1.81e7	1.25	NO	1.03	1.000	34.64	1.000	45.0	97.5	0.210	48.6
4 1,2,3,6,7,8-HxCDD	2.85e5	1.27	NO	0.80	1.000	34.94	1.000	49.3	98.8	0.202	48.3
5 1,2,3,7,8,9-HxCDD	1.81e5	1.28	NO	0.69	1.000	35.22	1.001	49.8	98.6	0.237	48.8
6 1,2,3,4,6,7,8-HpCDD	1.30e5	1.02	NO	0.98	1.000	38.76	1.000	50.3	101	0.228	50.3
7 OCDD	2.58e5	0.88	NO	0.91	1.000	41.74	1.000	101	101	0.258	101
8 2,3,7,8-TCDF	7.74e4	0.74	NO	0.75	1.000	25.61	1.001	9.52	95.2	0.0376	9.52
9 1,2,3,7,8-PeCDF	3.56e7	1.57	NO	0.89	1.000	30.16	1.000	49.6	98.1	0.102	49.8
10 2,3,4,7,8-PeCDF	3.56e5	1.55	NO	0.93	1.000	31.16	1.000	49.4	98.5	0.104	49.4
11 1,2,3,4,7,8-HxCDF	2.06e5	1.21	NO	0.88	1.000	33.95	1.000	49.3	98.3	0.211	49.3
12 1,2,3,6,7,8-HxCDF	2.57e7	1.22	NO	0.89	1.000	34.09	1.001	48.7	97.4	0.185	48.7
13 2,3,4,6,7,8-HpCDF	2.25e5	1.19	NO	0.93	1.000	34.69	1.001	49.1	98.1	0.220	49.1
14 1,2,3,4,6,7,8-HpCDF	1.58e5	1.00	NO	0.87	1.000	37.36	1.001	49.8	99.8	0.102	49.8
15 1,2,3,4,7,8,9-HxCDF	1.21e5	1.02	NO	1.01	1.000	39.31	1.001	51.1	102	0.178	51.1
16 OCDF	2.06e5	0.87	NO	0.81	1.000	41.83	1.000	98.9	98.9	0.170	98.9
17 13C-2,3,7,8-TCDD	6.12e5	0.75	NO	1.16	1.000	26.48	1.025	154	104	0.161	
18 13C-1,2,3,7,8-PeCDD	5.25e5	0.82	NO	0.85	1.000	31.65	1.217	91.0	91.6	0.137	
19 13C-1,2,3,4,7,8-HxCDD	2.58e5	1.27	NO	0.78	1.000	34.83	1.014	94.8	94.8	0.270	
20 13C-1,2,3,6,7,8-HpCDD	4.88e5	1.28	NO	1.02	1.000	34.95	1.017	94.5	94.5	0.287	



Dataset: Untitled

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Printed: Tuesday, June 02, 2020 09:20:02 Pacific Daylight Time

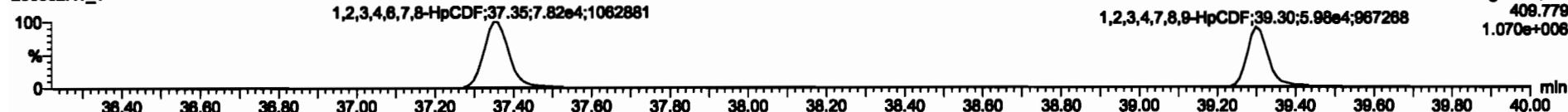
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1,2,3,4,6,7,8-HpCDF

200602R1_1



200602R1_1

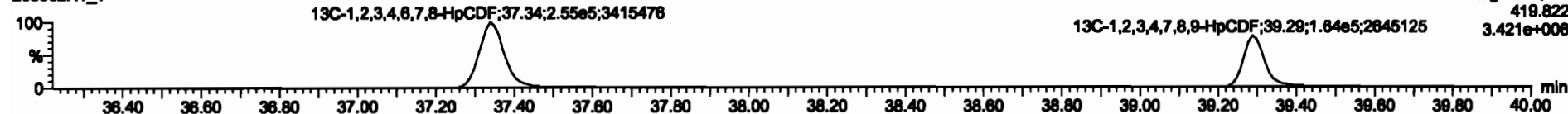


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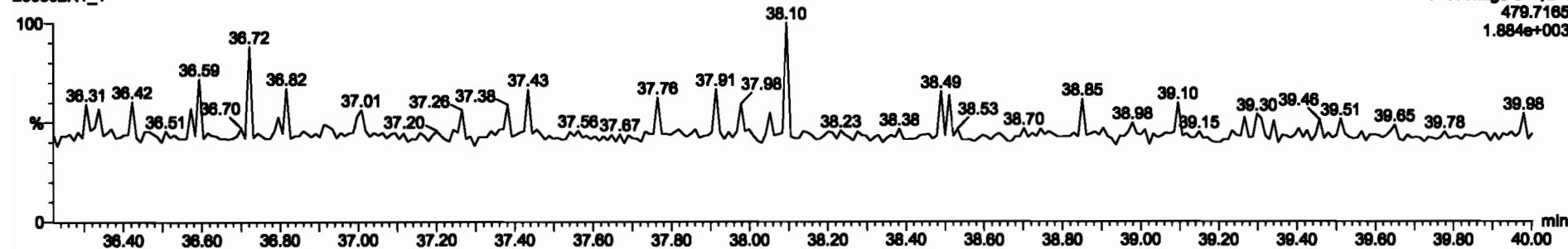


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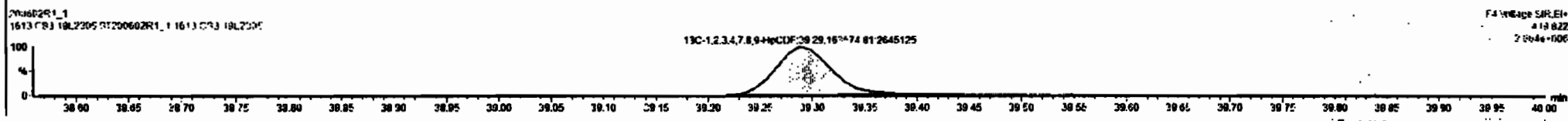
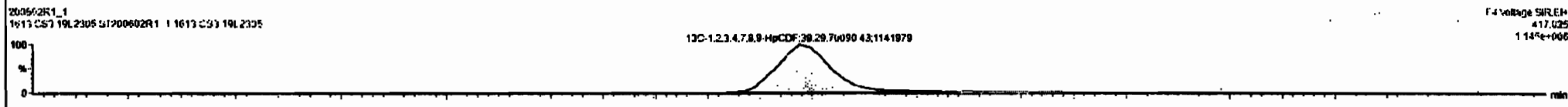
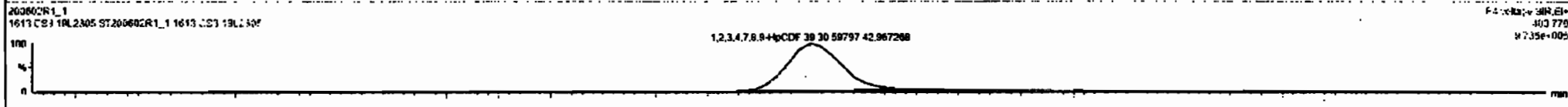
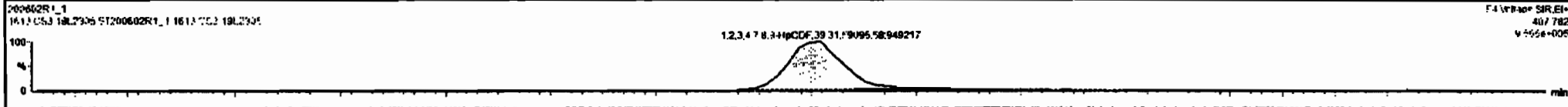


DPE4

200602R1_1



#	Name	Resp	RA	dy	RF	width	RT	RTT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDF	4.58e4	0.77	NC	0.95	1.000	28.51	1.001	9.56	25.2	0.8473	4.56
2	1,2,3,7,8-PeCDD	2.35e4	0.61	NC	0.51	1.000	31.47	1.000	48.4	52.5	0.117	49.4
3	1,2,3,4,7,8-HxCDD	1.81e5	1.25	NC	1.03	1.000	34.84	1.000	48.8	97.8	0.210	48.8
4	1,2,3,6,7,8-HxCDD	2.85e5	1.27	NO	0.89	1.000	34.84	1.000	49.3	99.8	0.202	49.3
5	1,2,3,7,8,9-HxCDD	1.81e5	1.26	NC	0.89	1.000	35.22	1.001	48.8	99.8	0.237	49.8
6	1,2,3,4,6,7,8-HxCDD	1.38e5	1.02	NO	0.86	1.000	36.76	1.000	50.3	101	0.220	50.3
7	OCDD	2.58e5	0.88	NO	0.91	1.000	41.74	1.000	101	101	0.258	101
8	2,3,7,8-TCDF	7.74e4	0.74	NO	0.75	1.000	25.61	1.001	9.52	25.2	0.8376	9.52
9	1,2,3,7,8-PeCDF	3.58e5	1.57	NO	0.89	1.000	30.18	1.000	48.8	50.1	0.102	49.8
10	2,3,4,7,8-PeCDF	2.56e5	1.58	NC	0.93	1.000	31.16	1.000	49.4	50.2	0.104	49.4
11	1,2,3,4,7,8-HxCDF	7.08e5	1.21	NC	0.88	1.000	33.86	1.000	49.3	98.8	0.211	49.3
12	1,2,3,6,7,8-HxCDF	2.37e5	1.22	NO	0.89	1.000	34.09	1.001	48.7	97.4	0.185	42.7
13	2,3,4,6,7,8-HxCDF	2.27e5	1.19	NO	0.93	1.000	34.68	1.001	49.1	98.1	0.220	49.1
14	1,2,3,7,8,9-HxCDF	1.75e5	1.20	NO	0.87	1.000	35.59	1.001	51.4	103	0.326	51.4
15	1,2,3,4,6,7,8-HpCDF	1.56e5	1.00	NO	0.87	1.000	37.36	1.001	48.8	98.8	0.182	48.8
16	1,2,3,4,6,7,8,9-HpCDF	1.56e5	0.89	NO	0.86	1.000	38.09	1.000	48.8	98.8	0.176	48.8
17	OCDF	2.66e5	0.87	NO	0.81	1.000	41.83	1.000	88.8	88.8	0.170	88.8
18	13C-2,3,7,8-TCDD	8.12e5	0.75	NC	1.16	1.000	28.42	1.825	104	104	0.181	
19	13C-1,2,3,7,8-PeCDD	5.25e5	0.82	NO	0.85	1.000	31.45	1.217	91.6	91.6	0.137	
20	13C-1,2,3,4,7,8-HxCDD	2.58e5	1.27	NO	0.78	1.000	34.83	1.814	94.8	94.8	0.270	
21	13C-1,2,3,6,7,8-HxCDD	4.86e5	1.28	NO	1.02	1.000	34.83	1.817	94.5	94.5	0.287	



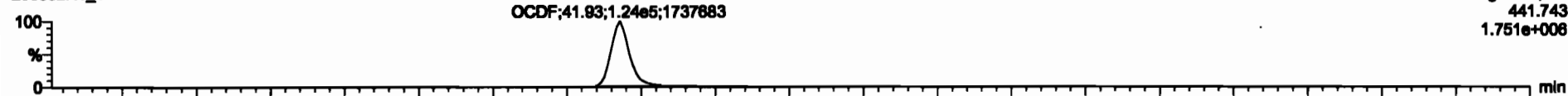
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Last Altered: Tuesday, June 02, 2020 09:19:48 Pacific Daylight Time
Printed: Tuesday, June 02, 2020 09:20:02 Pacific Daylight Time

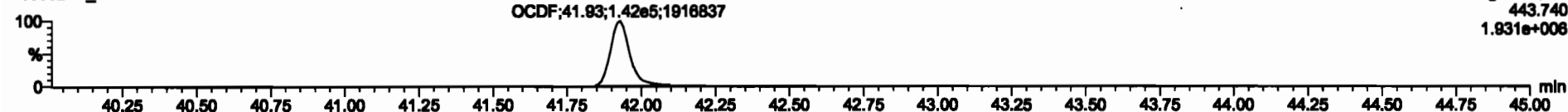
Name: 200602R1_1, Date: 02-Jun-2020, Time: 08:30:22, ID: ST200602R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDF

200602R1_1

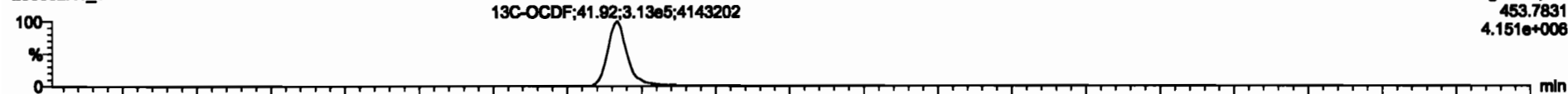


200602R1_1

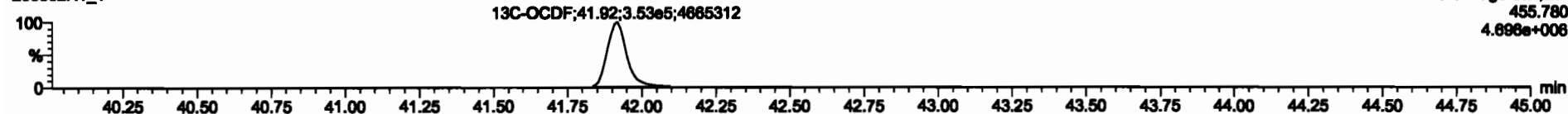


13C-OCDF

200602R1_1

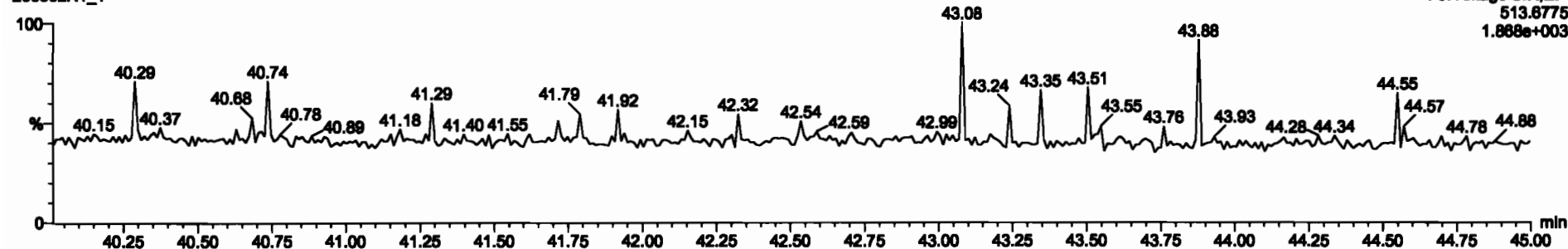


200602R1_1



DPE5

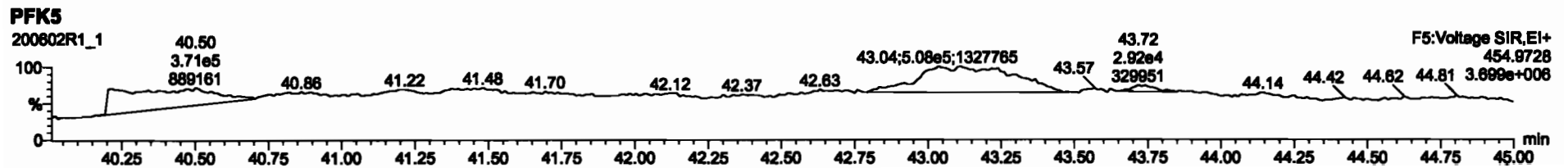
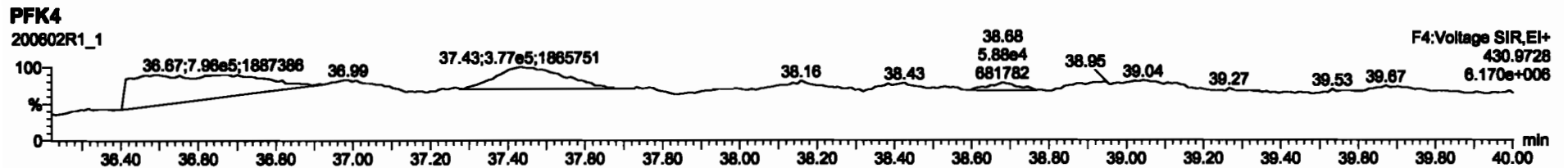
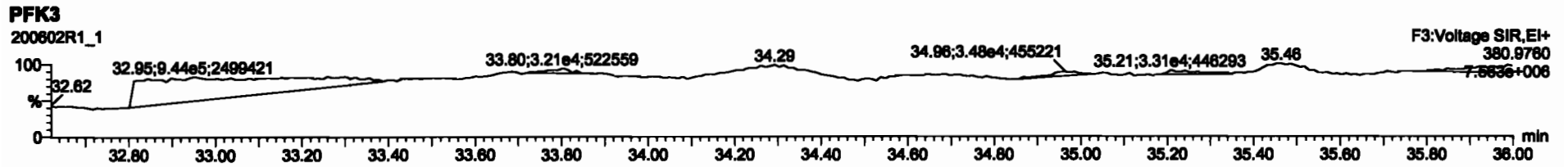
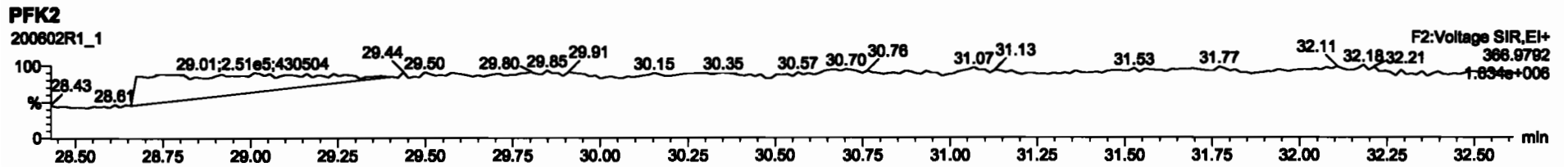
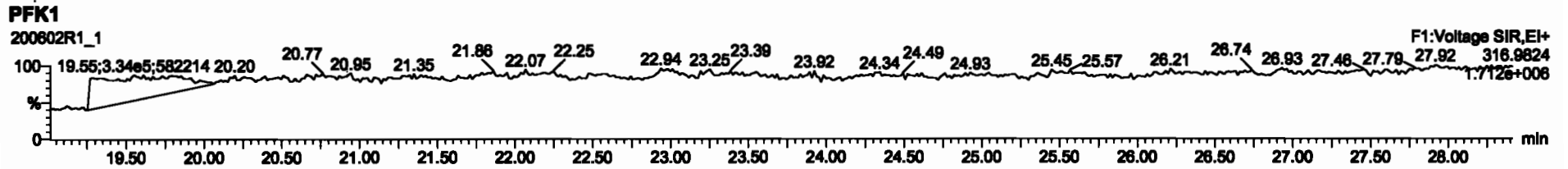
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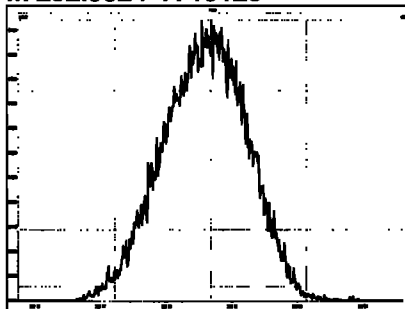
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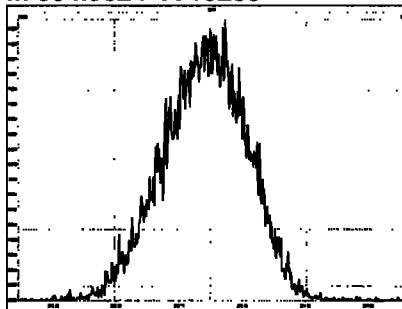
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 14:03:46 Pacific Daylight Time

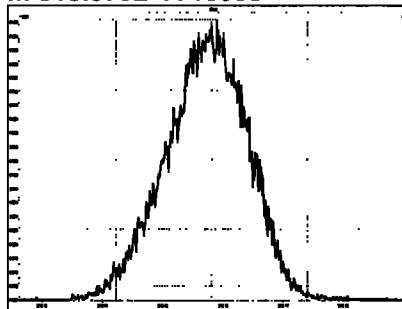
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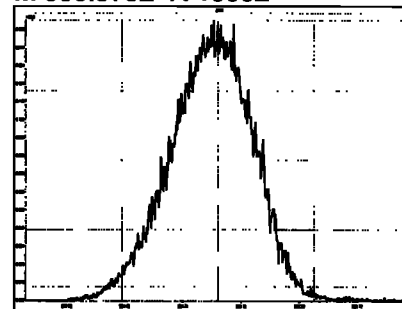
M 304.9824 R 10289



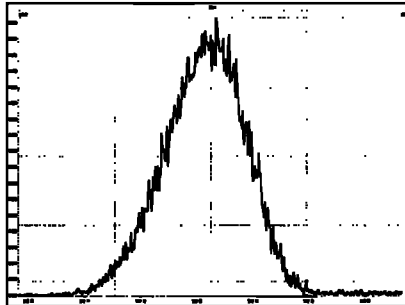
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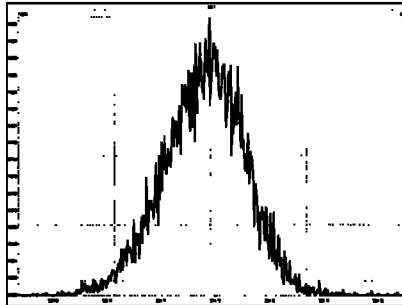
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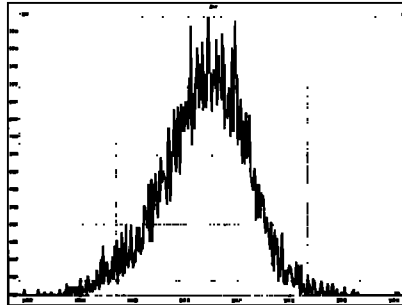
M 342.9792 R 10288



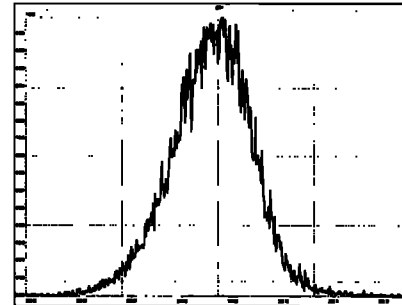
M 354.9792 R 10968



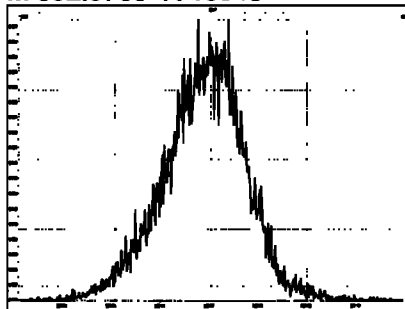
M 366.9792 R 11517



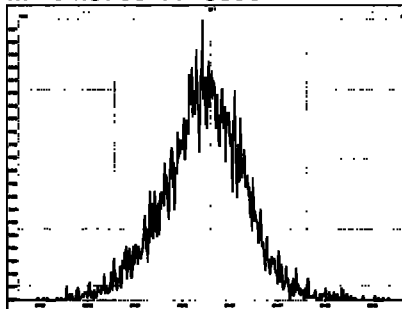
M 380.9760 R 10592



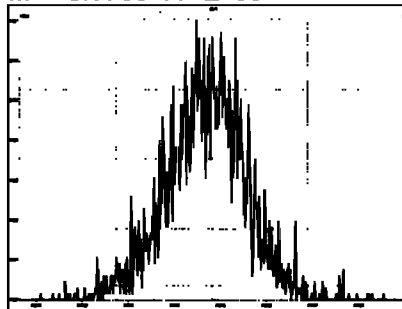
M 392.9760 R 10545



M 404.9760 R 10638



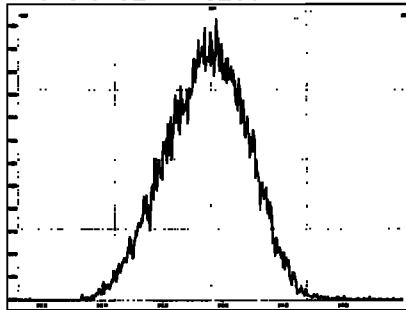
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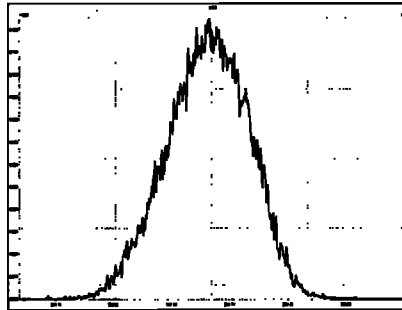
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 14:04:06 Pacific Daylight Time

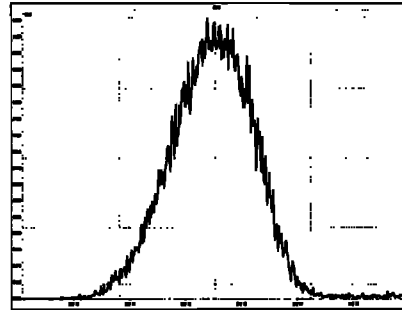
M 318.9792 R 10288



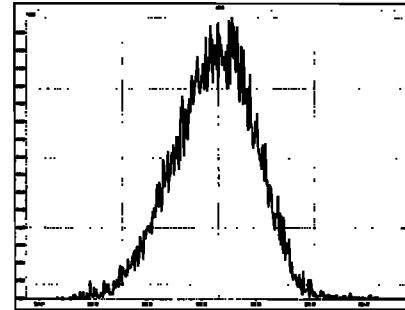
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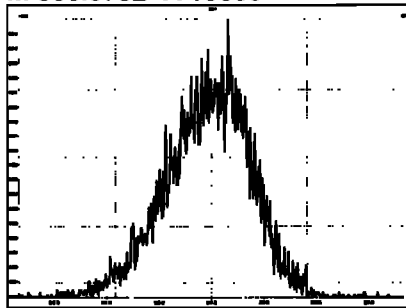
M 342.9792 R 10370



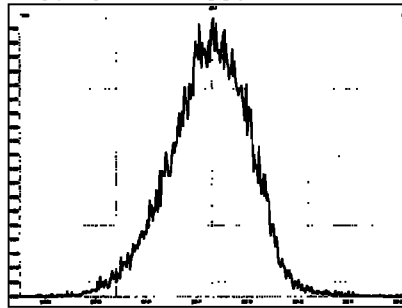
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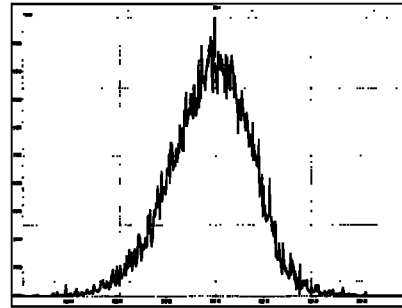
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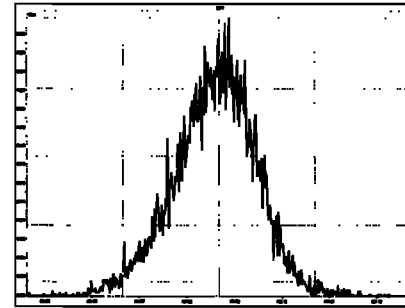
M 380.9760 R 10504



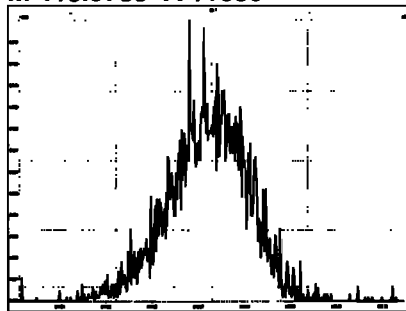
M 392.9760 R 10872



M 404.9760 R 10965



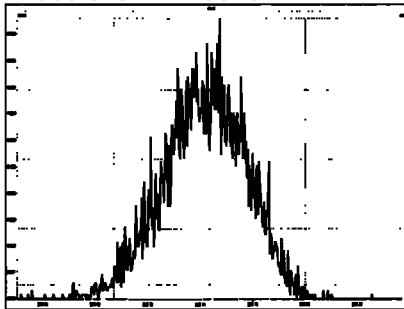
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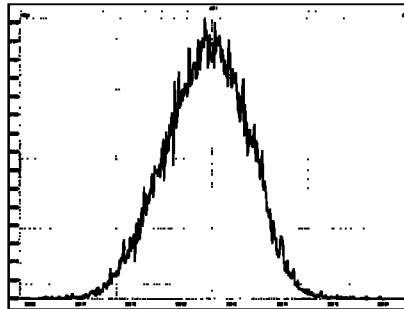
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Printed: Tuesday, June 02, 2020 14:04:23 Pacific Daylight Time

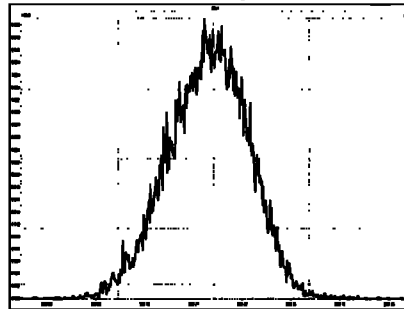
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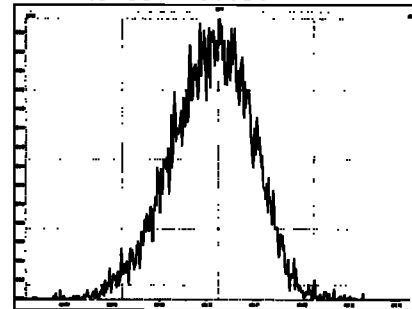
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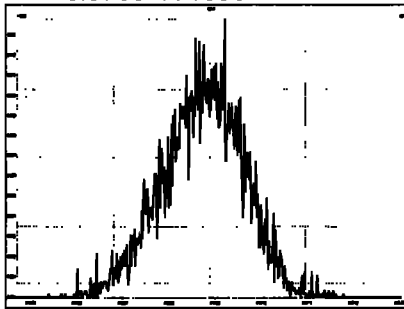
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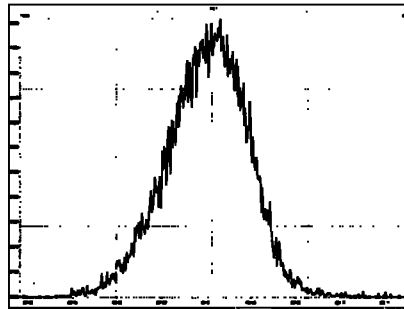
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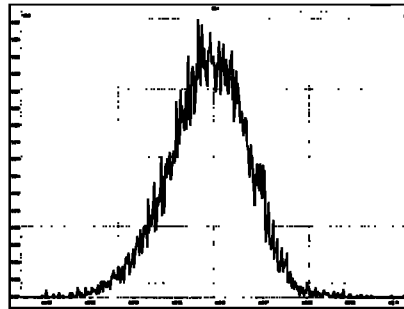
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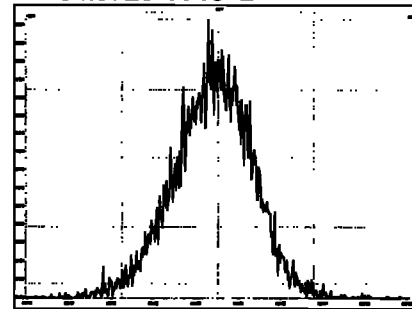
M 430.9728 R 10328



M 442.9728 R 10593



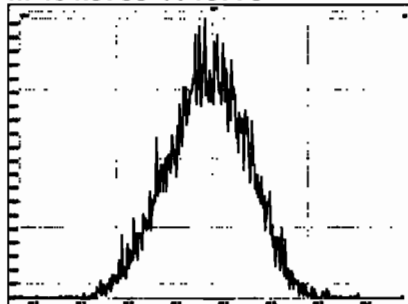
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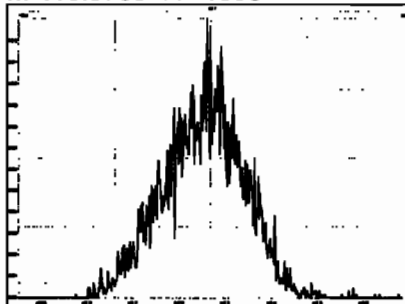
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Printed: Tuesday, June 02, 2020 14:04:38 Pacific Daylight Time

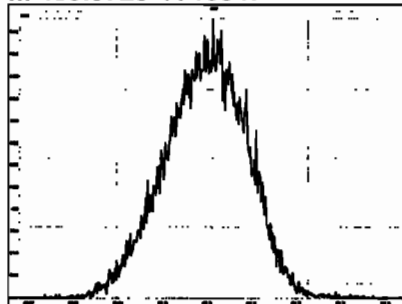
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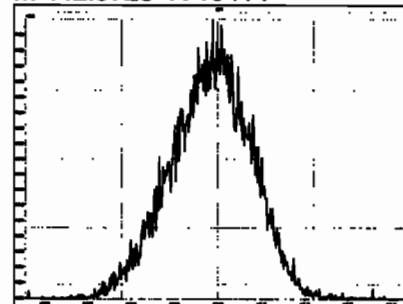
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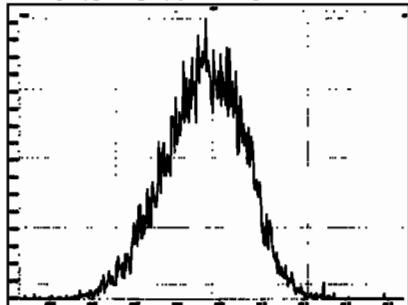
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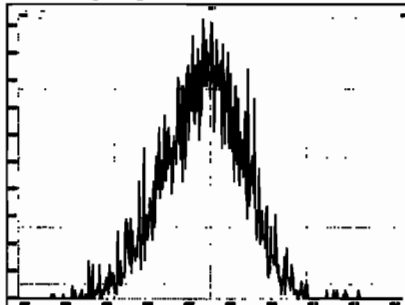
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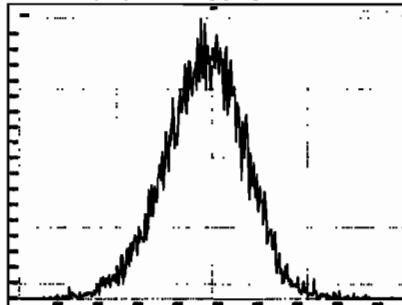
M 454.9728 R 11110



M 466.9728 R 11738



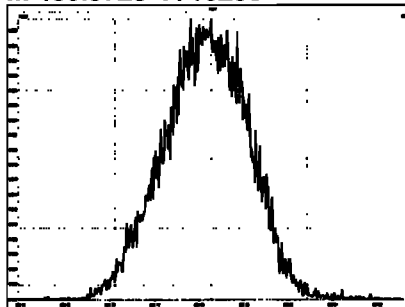
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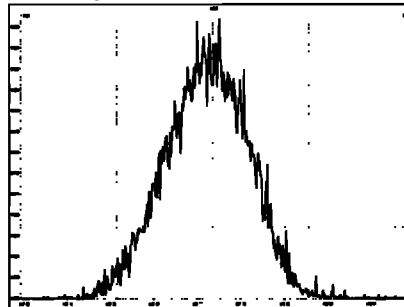
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, June 02, 2020 14:04:54 Pacific Daylight Time

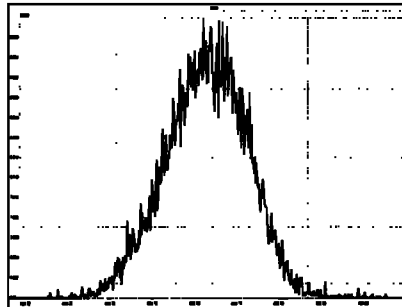
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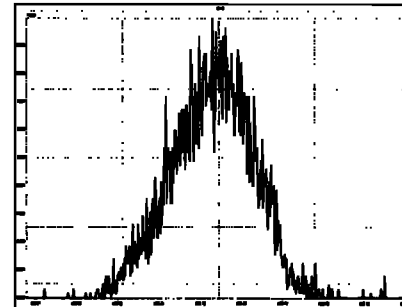
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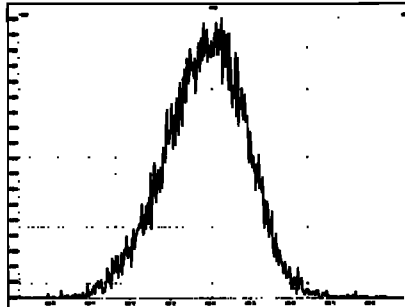
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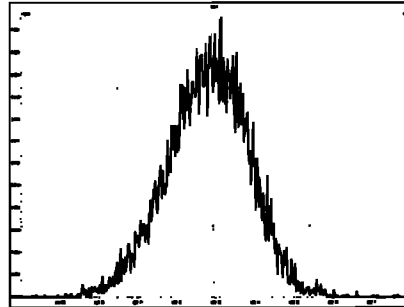
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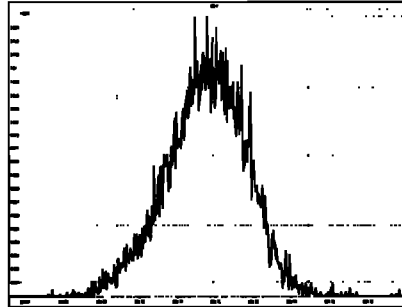
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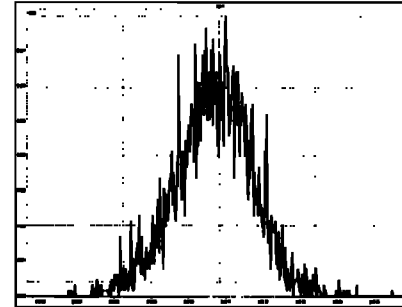
M 492.9696 R 10285



M 504.9696 R 11523



M 516.9697 R 12627



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

||
Beg. Calibration ID: ST200701R1-1

Reviewed By: CJ 07/02/2020
Initials & Date

End Calibration ID: ST200701R2-1

	<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 checked="" type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GC Break <20%	<input type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8280 CS1 End Standard:		
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"/>	<input checked="" type="checkbox"/>
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments:		
Correct ICAL referenced?	<u>DB</u>	<u>DB</u>			
Run Log:					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
- Bottle position verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\200701R1\200701R1_1.qld

Last Altered: Wednesday, July 01, 2020 15:31:05 Pacific Daylight Time
Printed: Wednesday, July 01, 2020 15:35:17 Pacific Daylight Time

DB 7/1/20 CT 07/02/2020

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-1-20.mdb 01 Jul 2020 12:59:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200701R1_1, Date: 01-Jul-2020, Time: 14:34:00, ID: ST200701R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	6.48e4	0.77	NO	0.888	1.000	26.471	26.45	1.001	1.001	10.988	110 <i>78-125</i>	0.0734	11.0
2	2 1,2,3,7,8-PeCDD	2.30e5	0.61	NO	0.908	1.000	31.442	31.44	1.001	1.000	49.020	98.0 <i>78-130</i>	0.204	49.0
3	3 1,2,3,4,7,8-HxCDD	1.98e5	1.25	NO	1.03	1.000	34.804	34.81	1.000	1.001	50.094	100 <i>78-128</i>	0.193	50.1
4	4 1,2,3,6,7,8-HxCDD	2.21e5	1.25	NO	0.892	1.000	34.900	34.91	1.000	1.000	51.106	102 <i>78-128</i>	0.185	51.1
5	5 1,2,3,7,8,9-HxCDD	1.97e5	1.21	NO	0.887	1.000	35.223	35.20	1.001	1.000	50.613	101 <i>82-122</i>	0.212	50.6
6	6 1,2,3,4,6,7,8-HpCDD	1.62e5	1.01	NO	0.864	1.000	38.735	38.73	1.000	1.000	52.137	104 <i>86-116</i>	0.246	52.1
7	7 OCDD	2.96e5	0.88	NO	0.914	1.000	41.727	41.74	1.000	1.000	103.39	103 <i>79-126</i>	0.201	103
8	8 2,3,7,8-TCDF	7.24e4	0.77	NO	0.751	1.000	25.566	25.56	1.001	1.001	10.744	107 <i>84-120</i>	0.0797	10.7
9	9 1,2,3,7,8-PeCDF	3.60e5	1.52	NO	0.893	1.000	30.160	30.15	1.001	1.001	51.650	103 <i>82-120</i>	0.127	51.7
10	10 2,3,4,7,8-PeCDF	3.55e5	1.55	NO	0.935	1.000	31.146	31.13	1.001	1.000	51.311	103 <i>82-120</i>	0.117	51.3
11	11 1,2,3,4,7,8-HxCDF	2.45e5	1.23	NO	0.884	1.000	33.920	33.94	1.000	1.001	52.242	104 <i>90-112</i>	0.174	52.2
12	12 1,2,3,6,7,8-HxCDF	2.70e5	1.19	NO	0.889	1.000	34.058	34.06	1.000	1.000	51.251	103 <i>88-114</i>	0.166	51.3
13	13 2,3,4,6,7,8-HxCDF	2.52e5	1.22	NO	0.934	1.000	34.668	34.64	1.001	1.000	52.336	105 <i>88-114</i>	0.179	52.3
14	14 1,2,3,7,8,9-HxCDF	1.93e5	1.22	NO	0.871	1.000	35.549	35.56	1.000	1.000	50.551	101 <i>90-112</i>	0.279	50.6
15	15 1,2,3,4,6,7,8-HpCDF	1.94e5	0.99	NO	0.873	1.000	37.355	37.33	1.001	1.000	52.909	106 <i>90-110</i>	0.183	52.9
16	16 1,2,3,4,7,8,9-HpCDF	1.52e5	1.00	NO	1.01	1.000	39.277	39.29	1.000	1.000	55.744	111 <i>86-116</i>	0.214	55.7
17	17 OCDF	2.85e5	0.92	NO	0.806	1.000	41.918	41.92	1.000	1.000	103.13	103 <i>63-159</i>	0.173	103
18	18 13C-2,3,7,8-TCDD	6.63e5	0.79	NO	1.16	1.000	26.487	26.44	1.027	1.026	101.96	102 <i>82-121</i>	0.136	
19	19 13C-1,2,3,7,8-PeCDD	5.16e5	0.61	NO	0.849	1.000	31.697	31.42	1.230	1.219	107.93	108 <i>62-160</i>	0.216	
20	20 13C-1,2,3,4,7,8-HxCDD	3.83e5	1.28	NO	0.779	1.000	34.788	34.79	1.014	1.014	99.973	100 <i>85-117</i>	0.287	
21	21 13C-1,2,3,6,7,8-HxCDD	4.84e5	1.28	NO	1.02	1.000	34.887	34.90	1.017	1.017	96.953	97.6 <i>85-118</i>	0.220	
22	22 13C-1,2,3,7,8,9-HxCDD	4.39e5	1.21	NO	0.903	1.000	35.162	35.19	1.025	1.025	99.088	99.1 <i>85-118</i>	0.248	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.61e5	1.10	NO	0.689	1.000	38.675	38.72	1.127	1.128	106.53	107 <i>72-138</i>	0.247	
24	24 13C-OCDD	6.26e5	0.91	NO	0.652	1.000	41.969	41.73	1.223	1.216	195.47	97.7 <i>48-207</i>	0.265	
25	25 13C-2,3,7,8-TCDF	8.97e5	0.77	NO	1.06	1.000	25.486	25.54	0.989	0.991	100.47	100 <i>71-140</i>	0.162	
26	26 13C-1,2,3,7,8-PeCDF	7.81e5	1.62	NO	0.838	1.000	30.369	30.14	1.178	1.169	110.58	111 <i>76-130</i>	0.404	
27	27 13C-2,3,4,7,8-PeCDF	7.40e5	1.59	NO	0.817	1.000	31.372	31.11	1.217	1.207	107.42	107 <i>77-136</i>	0.414	
28	28 13C-1,2,3,4,7,8-HxCDF	5.30e5	0.50	NO	1.01	1.000	33.923	33.92	0.989	0.989	107.13	107 <i>76-131</i>	0.376	
29	29 13C-1,2,3,6,7,8-HxCDF	5.93e5	0.51	NO	1.17	1.000	34.039	34.05	0.992	0.992	103.35	103 <i>70-143</i>	0.325	
30	30 13C-2,3,4,6,7,8-HxCDF	5.16e5	0.50	NO	1.02	1.000	34.616	34.63	1.009	1.009	102.72	103 <i>73-137</i>	0.371	
31	31 13C-1,2,3,7,8,9-HxCDF	4.39e5	0.50	NO	0.860	1.000	35.522	35.55	1.035	1.036	103.98	104 <i>74-135</i>	0.441	

Dataset: U:\VG12.PRO\Results\200701R1\200701R1_1.qld

Last Altered: Wednesday, July 01, 2020 15:31:05 Pacific Daylight Time

Printed: Wednesday, July 01, 2020 15:35:17 Pacific Daylight Time

Name: 200701R1_1, Date: 01-Jul-2020, Time: 14:34:00, ID: ST200701R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	4.20e5	0.43	NO	0.774	1.000	37.244	37.32	1.085	1.088	110.43	110 78-129	0.288	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.70e5	0.42	NO	0.521	1.000	39.279	39.28	1.145	1.145	105.46	105 77-129	0.427	
34	34 13C-OCDF	6.86e5	0.88	NO	0.746	1.000	42.158	41.92	1.229	1.222	187.32	93.7 48-207	0.193	
35	35 37Cl-2,3,7,8-TCDD	6.15e4			1.04	1.000	26.507	26.45	1.028	1.026	10.541	105 79-127	0.0339	
36	36 13C-1,2,3,4-TCDD	5.63e5	0.80	NO	1.00	1.000	25.780	25.78	1.000	1.000	100.00	100	0.157	
37	37 13C-1,2,3,4-TCDF	8.43e5	0.81	NO	1.00	1.000	24.070	24.09	1.000	1.000	100.00	100	0.172	
38	38 13C-1,2,3,4,6,9-HxCDF	4.91e5	0.51	NO	1.00	1.000	34.340	34.31	1.000	1.000	100.00	100	0.379	

Dataset: Untitled

Last Altered: Wednesday, July 01, 2020 15:40:57 Pacific Daylight Time

Printed: Wednesday, July 01, 2020 15:41:30 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: 200701R1_1, Date: 01-Jul-2020, Time: 14:34:00, ID: ST200701R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.41
2	1,2,8,9-TCDD (Last)	27.43
3	1,2,4,7,9-PeCDD (First)	29.21
4	1,2,3,8,9-PeCDD (Last)	31.82
5	1,2,4,6,7,9-HxCDD (First)	33.30
6	1,2,3,7,8,9-HxCDD (Last)	35.20
7	1,2,3,4,6,7,9-HpCDD (First)	37.72
8	1,2,3,4,6,7,8-HpCDD (Last)	38.73
9	1,3,6,8-TCDF (First)	20.29
10	1,2,8,9-TCDF (Last)	27.58
11	1,3,4,6,8-PeCDF (First)	27.53
12	1,2,3,8,9-PeCDF (Last)	32.06
13	1,2,3,4,6,8-HxCDF (First)	32.76
14	1,2,3,7,8,9-HxCDF (Last)	35.56
15	1,2,3,4,6,7,8-HpCDF (First)	37.33
16	1,2,3,4,7,8,9-HpCDF (Last)	39.29

Dataset: Untitled

Last Altered: Thursday, July 02, 2020 10:30:31 Pacific Daylight Time

Printed: Thursday, July 02, 2020 10:30:41 Pacific Daylight Time

Method: C:\MassLynx\DEFAULT.PROMethDB\1613_rrt-7-1-20.mdb 01 Jul 2020 12:59:26

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

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

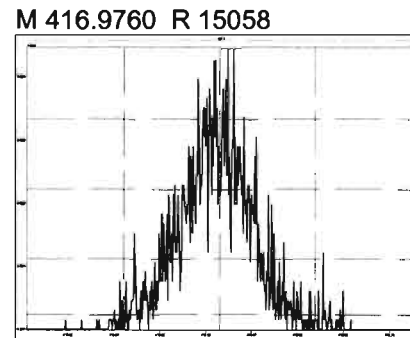
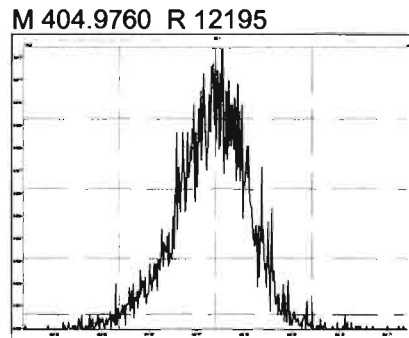
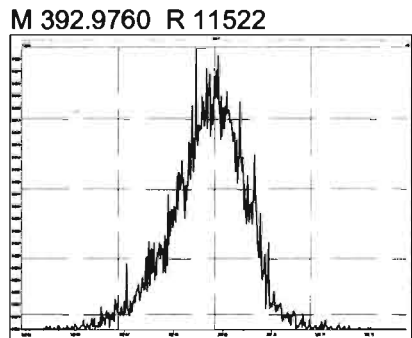
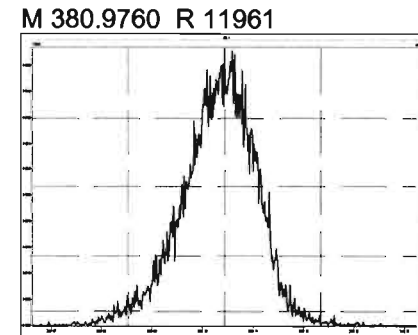
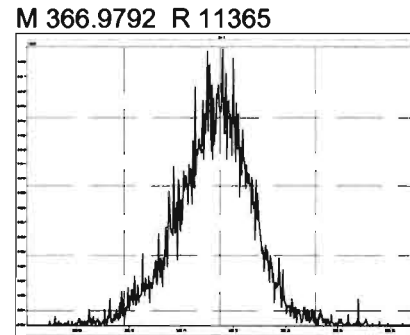
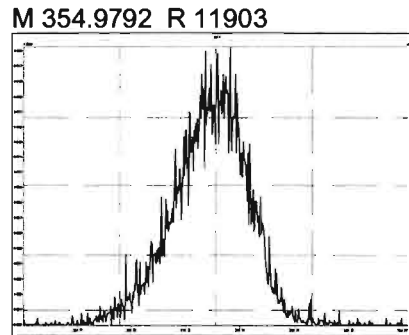
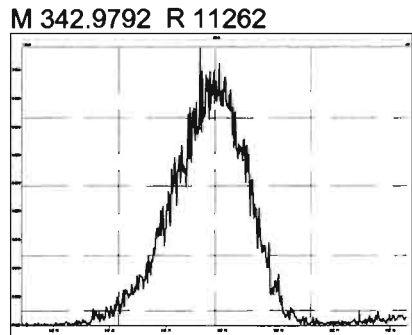
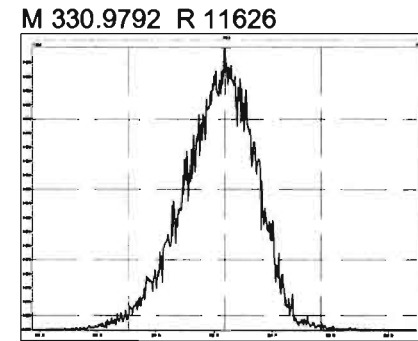
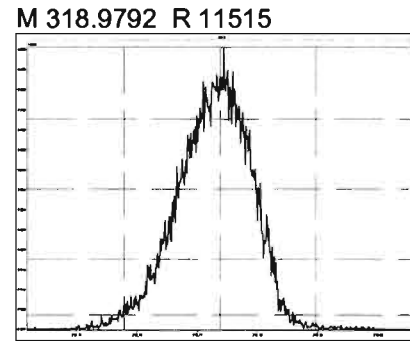
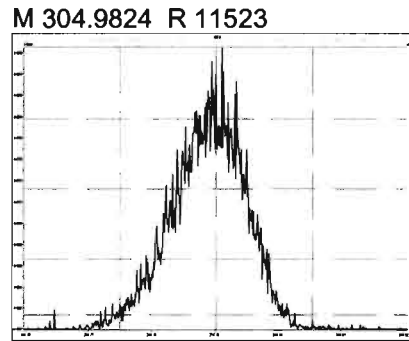
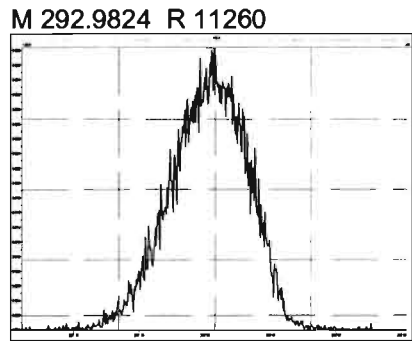
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2	200701R1_2	B0F0273-BS1 OPR 1	01-Jul-20	15:20:12
3	200701R1_3	B0F0161-BS1 OPR 1	01-Jul-20	16:06:23
4	200701R1_4	B0F0246-BS1 OPR 0.5	01-Jul-20	16:52:34
5	200701R1_5	B0F0227-BS1 OPR 10	01-Jul-20	17:38:45
6	200701R1_6	SOLVENT BLANK	01-Jul-20	18:24:56
7	200701R1_7	B0F0227-BLK1 Method Blank 10	01-Jul-20	19:11:10
8	200701R1_8	B0F0273-BLK1 Method Blank 1	01-Jul-20	19:57:20
9	200701R1_9	B0F0161-BLK1 Method Blank 1	01-Jul-20	20:43:31
10	200701R1_10	B0F0246-BLK1 Method Blank 0.5	01-Jul-20	21:29:42
11	200701R1_11	2001045-04RE1 W133M 1.00313	01-Jul-20	22:15:54
12	200701R1_12	2001057-02RE1 W232 0.99846	01-Jul-20	23:02:06
13	200701R1_13	2001364-01 WT2006251140SK 0.93508	01-Jul-20	23:48:18
14	200701R1_14	B0F0161-MS1 Matrix Spike 0.93482	02-Jul-20	00:34:29
15	200701R1_15	B0F0161-MSD1 Matrix Spike Dup 0.92148	02-Jul-20	01:20:41
16	200701R2_1	SOLVENT BLANK	02-Jul-20	02:15:47
17	200701R2_2	ST200701R2_1 1613 CS3 19L2305	02-Jul-20	03:02:02

Experiment Calibration Report

MassLynx 4.1 SCN815

File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, July 01, 2020 14:31:15 Pacific Daylight Time



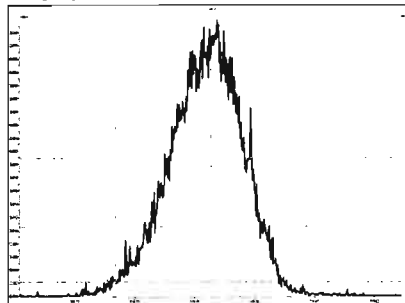
Experiment Calibration Report

MassLynx 4.1 SCN815

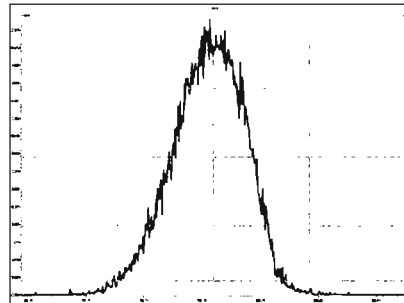
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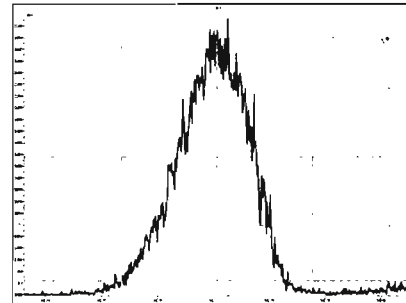
M 318.9792 R 11575



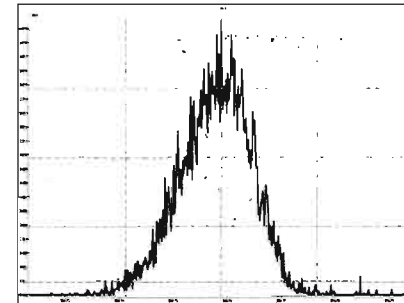
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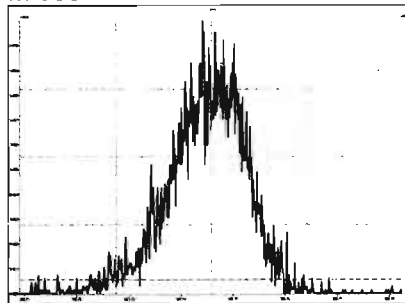
M 342.9792 R 11963



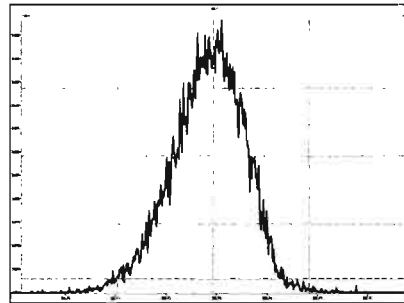
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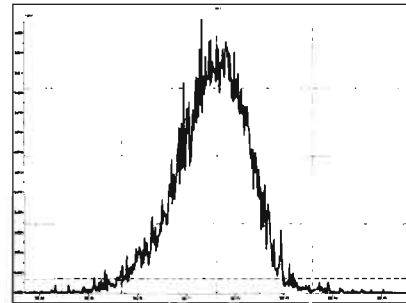
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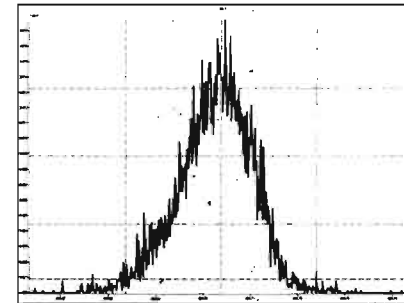
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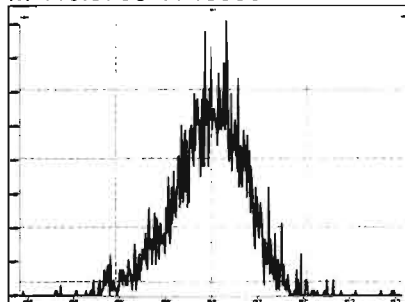
M 392.9760 R 11846



M 404.9760 R 12137



M 416.9760 R 13660



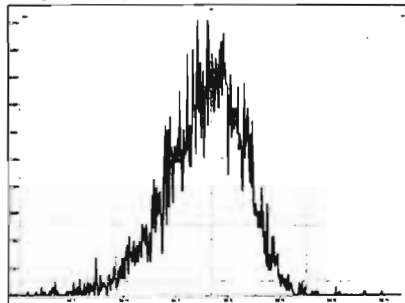
Experiment Calibration Report

MassLynx 4.1 SCN815

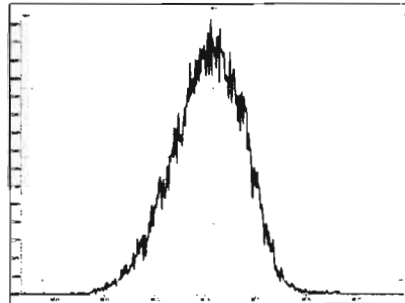
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Printed: Wednesday, July 01, 2020 14:32:02 Pacific Daylight Time

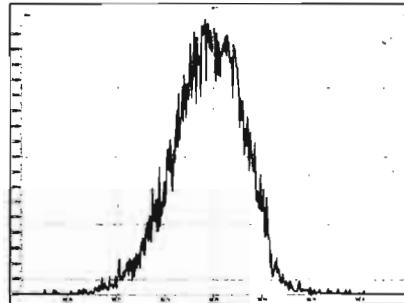
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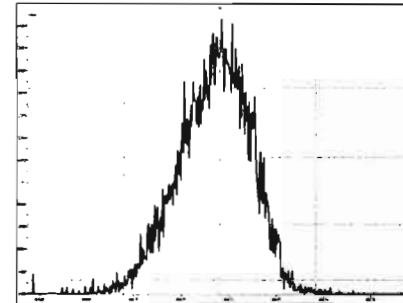
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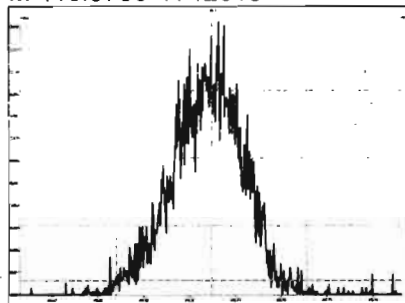
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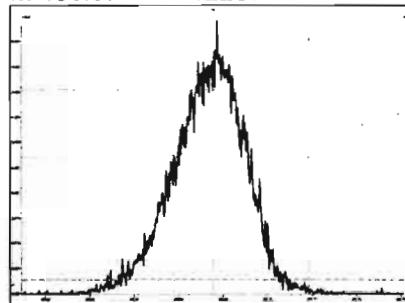
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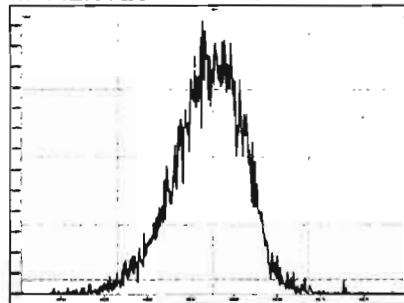
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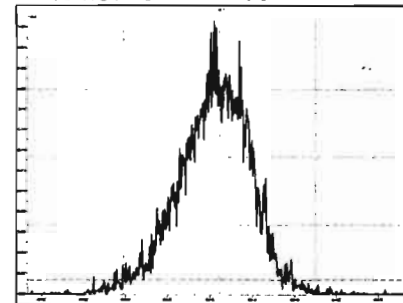
M 430.9728 R 12257



M 442.9728 R 12255



M 454.9728 R 12753



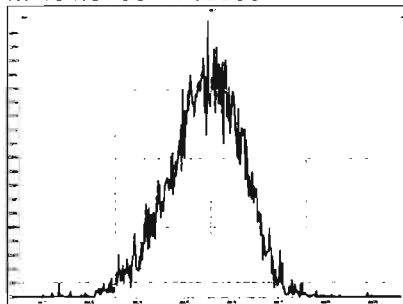
Experiment Calibration Report

MassLynx 4.1 SCN815

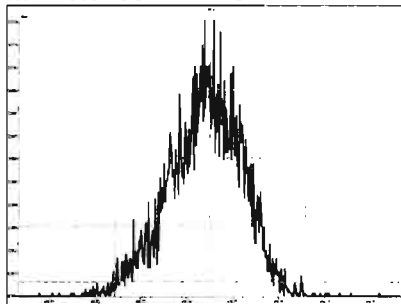
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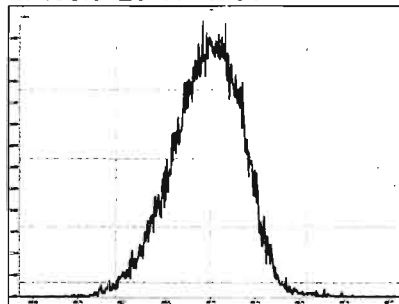
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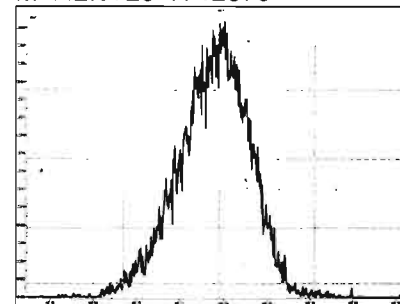
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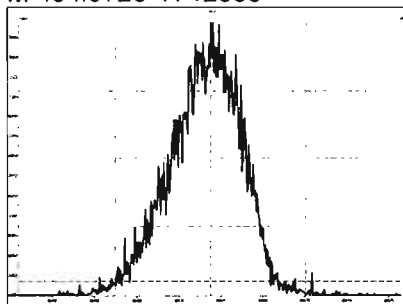
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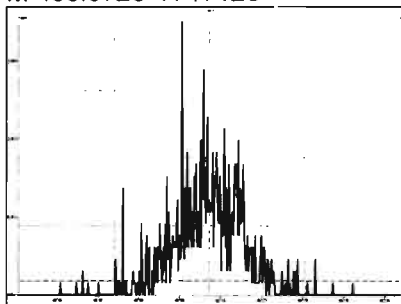
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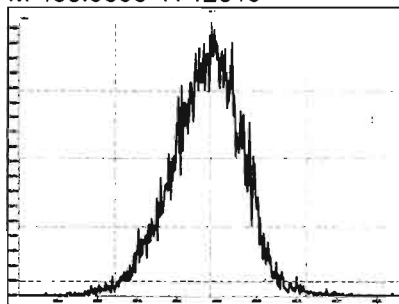
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M 466.9728 R 17123



M 480.9696 R 12019



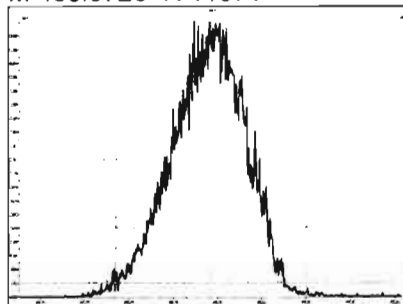
Experiment Calibration Report

MassLynx 4.1 SCN815

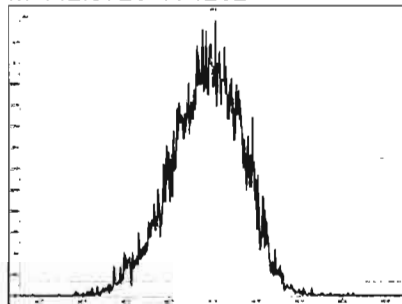
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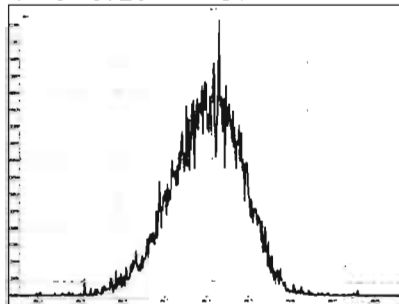
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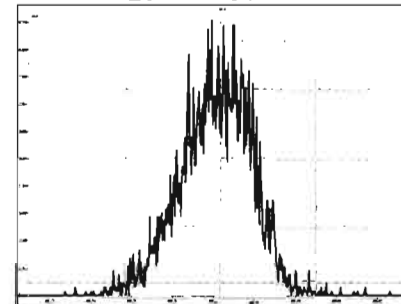
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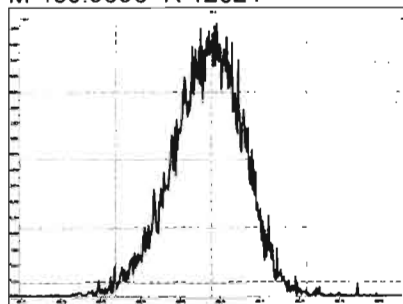
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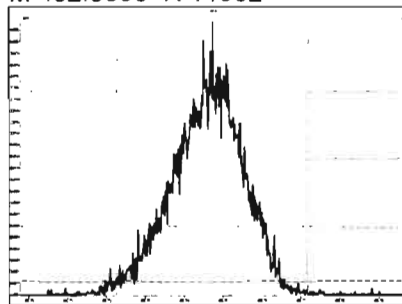
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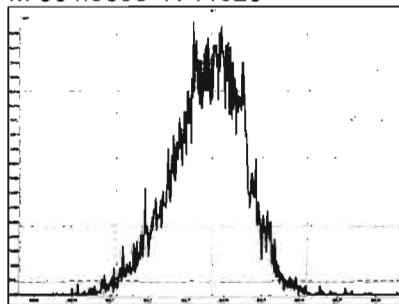
M 480.9696 R 12021



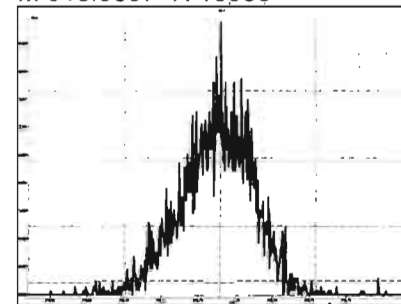
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M 504.9696 R 11520



M 516.9697 R 13968



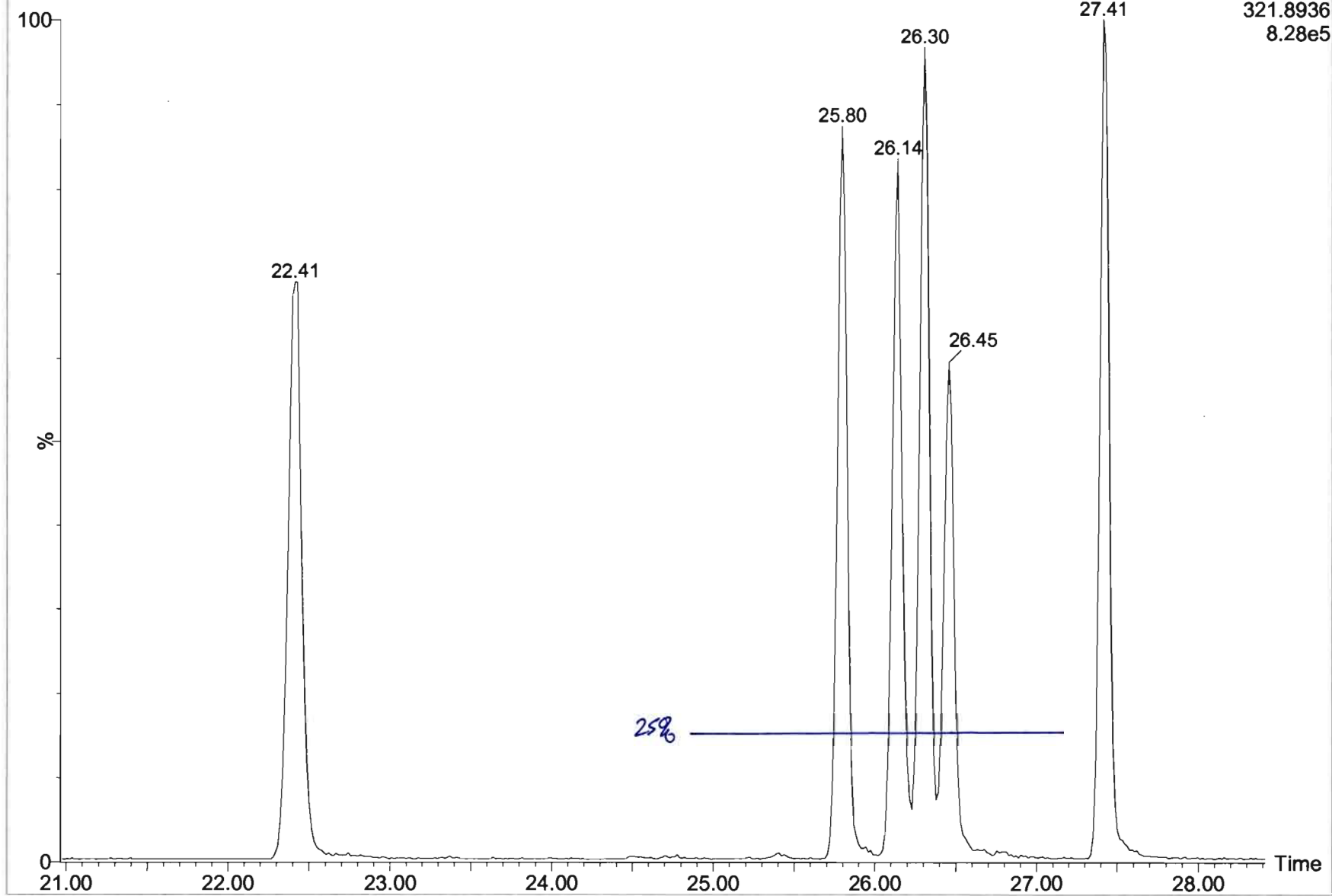
1613 CS3 19L2305

200701R1_1

1: Voltage SIR 14 Channels EI+

321.8936

8.28e5



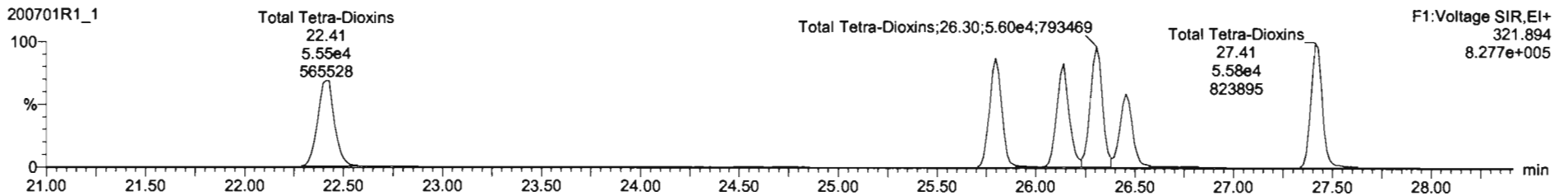
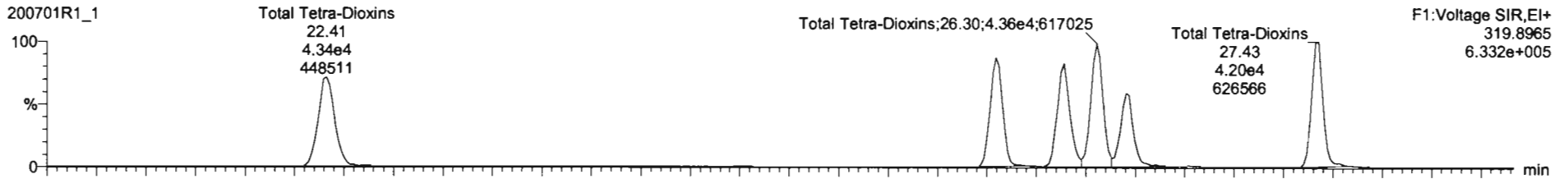
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Printed: Thursday, July 02, 2020 12:32:00 Pacific Daylight Time

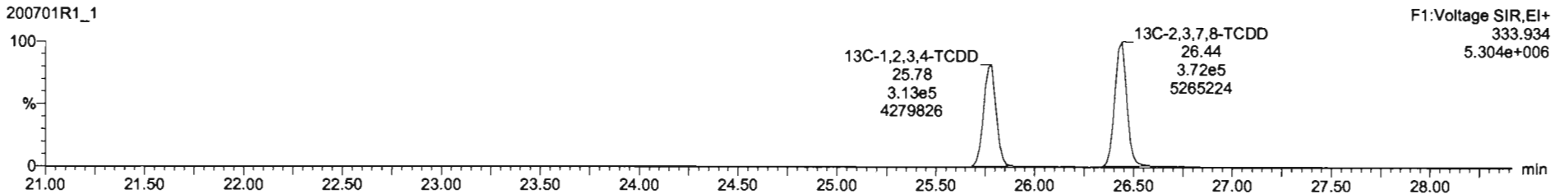
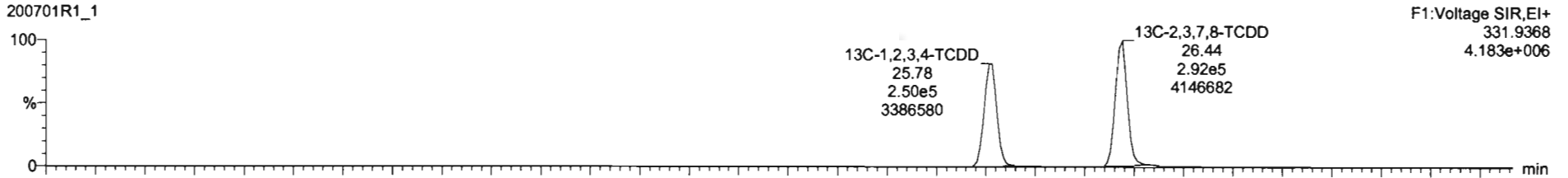
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Name: 200701R1_1, Date: 01-Jul-2020, Time: 14:34:00, ID: ST200701R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



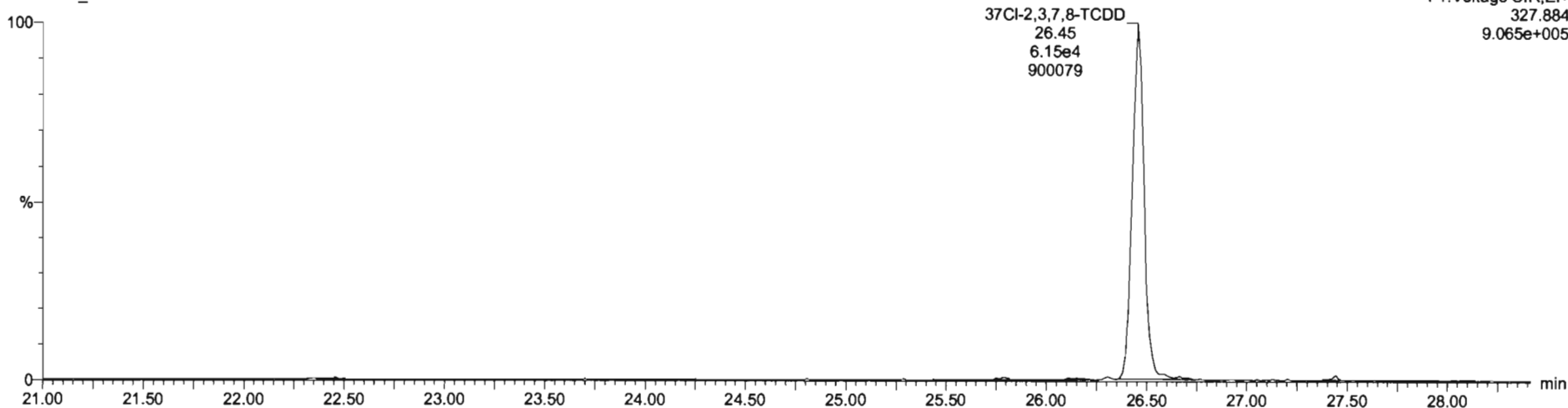
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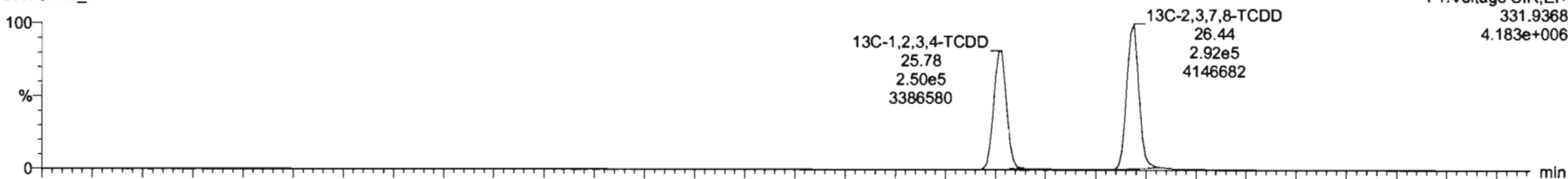
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200701R1_1

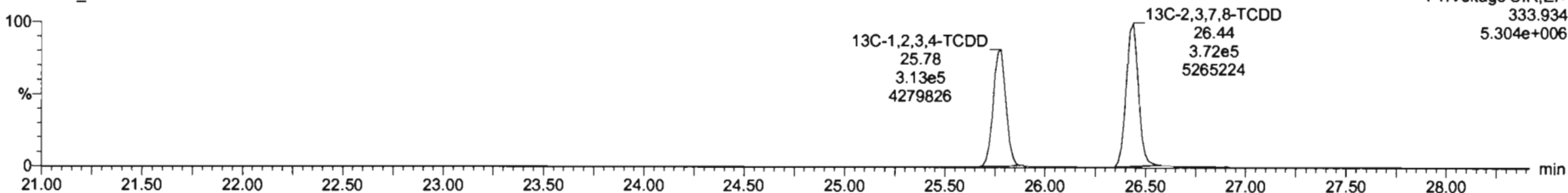


13C-1,2,3,4-TCDD

200701R1_1



200701R1_1



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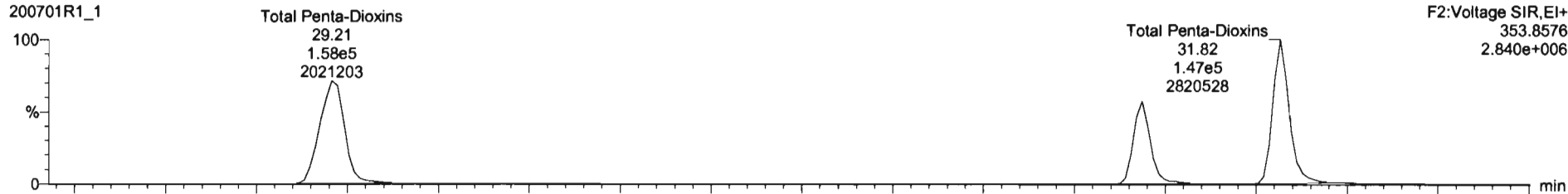
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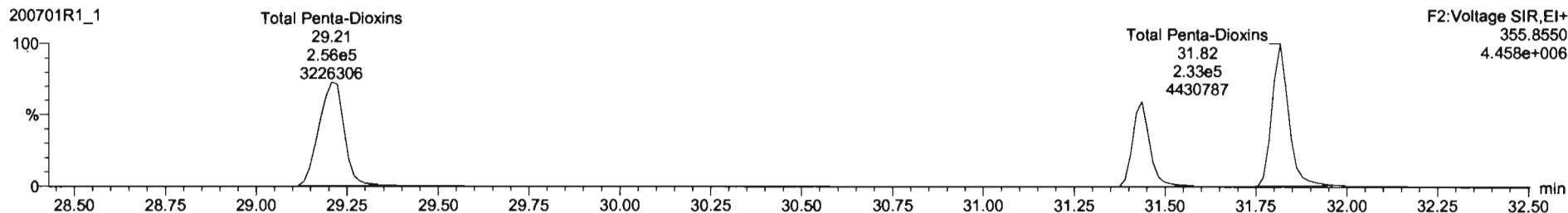
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1,2,3,7,8-PeCDD

200701R1_1

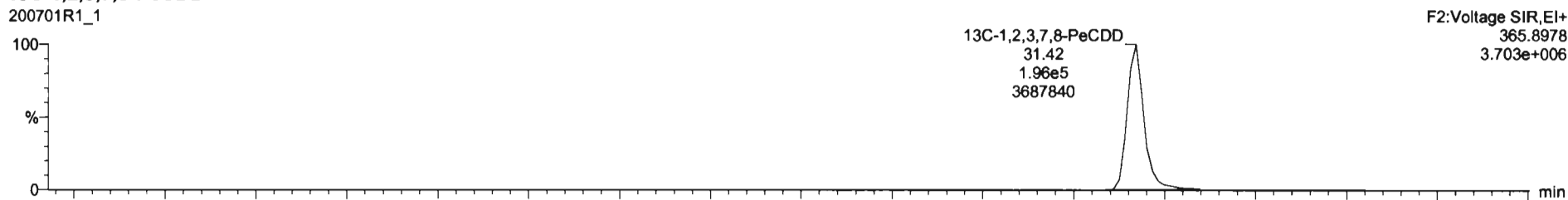


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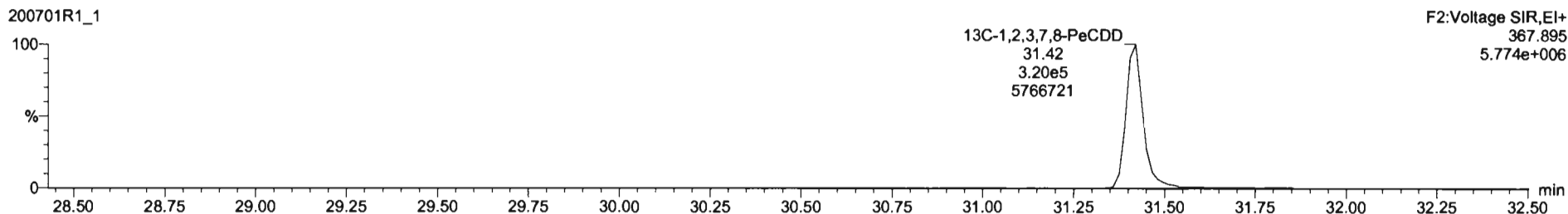


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200701R1_1



200701R1_1



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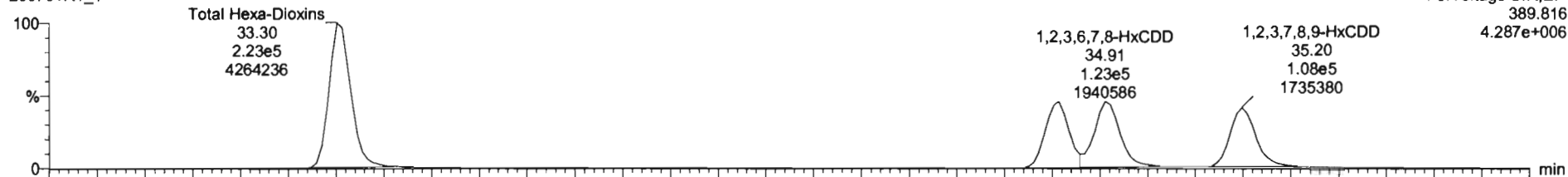
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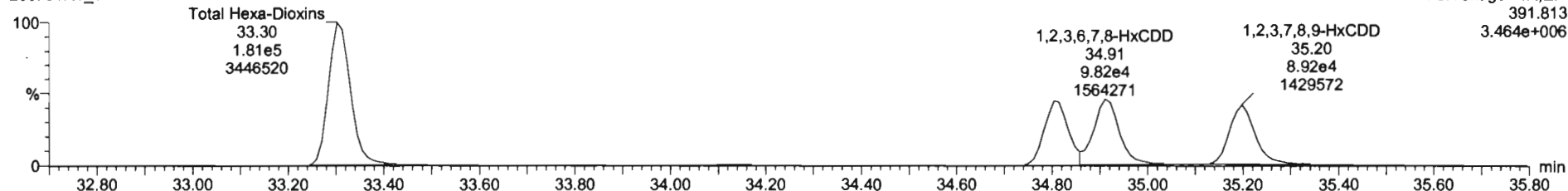
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1,2,3,4,7,8-HxCDD

200701R1_1

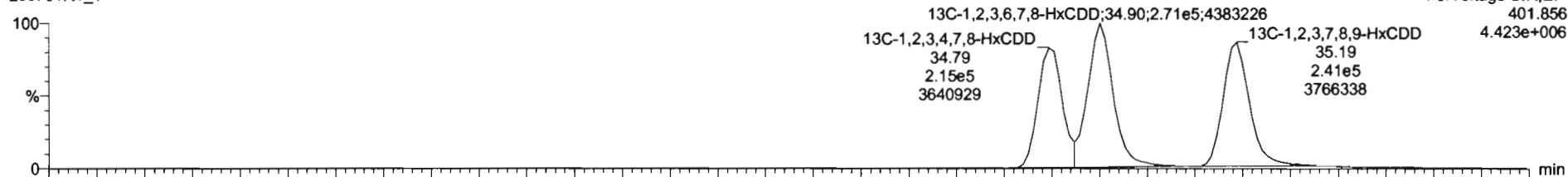


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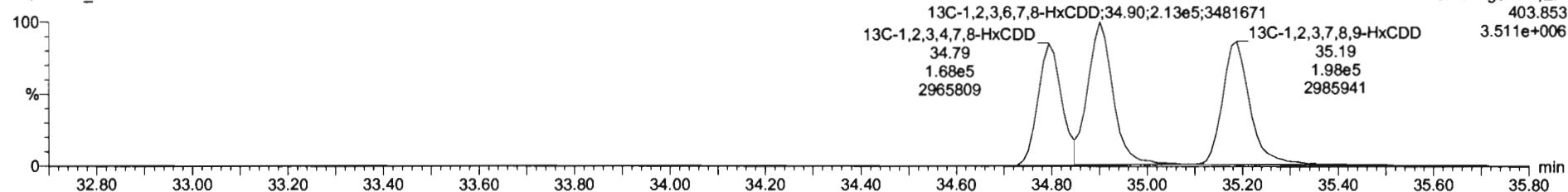


13C-1,2,3,4,7,8-HxCDD

200701R1_1



200701R1_1



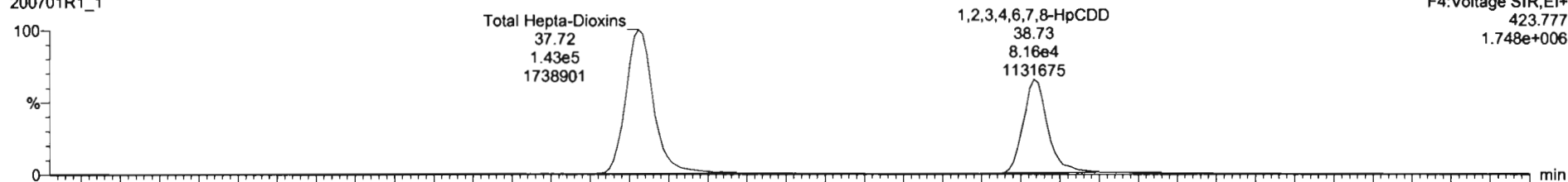
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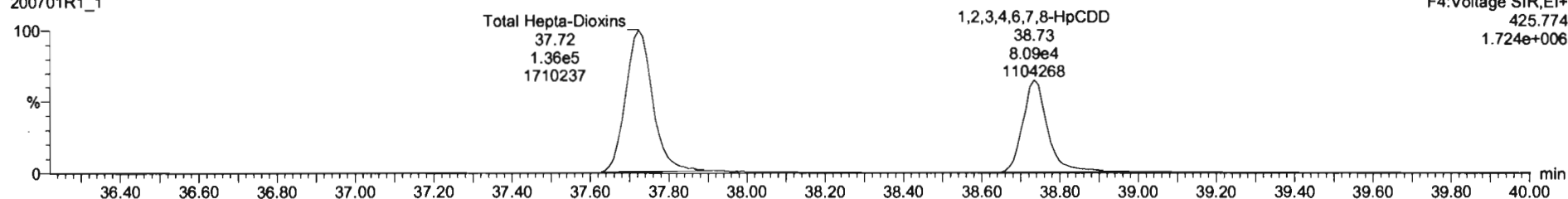
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1,2,3,4,6,7,8-HpCDD

200701R1_1

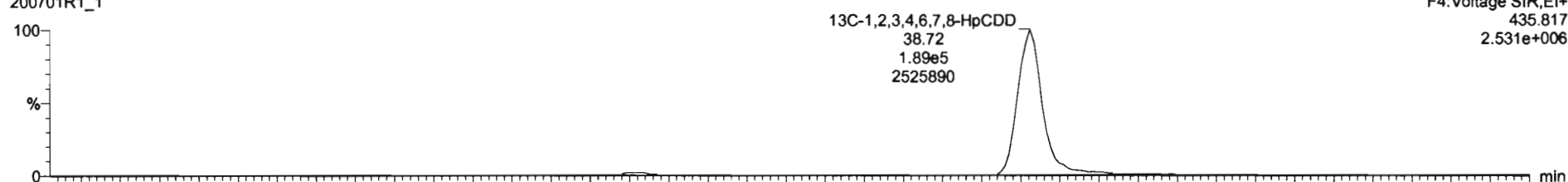


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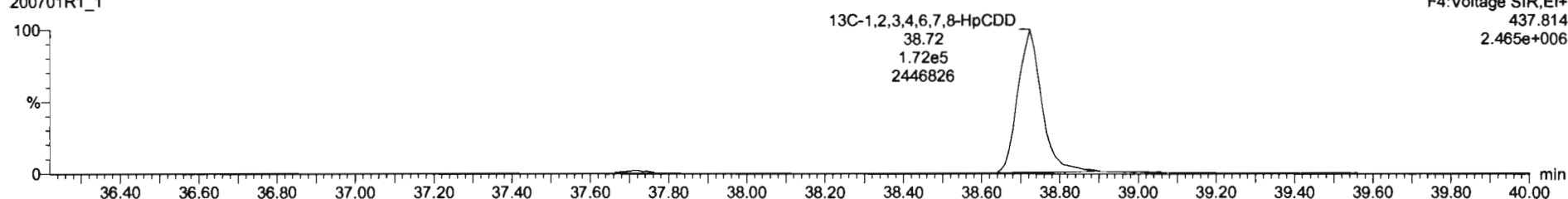


13C-1,2,3,4,6,7,8-HpCDD

200701R1_1



200701R1_1



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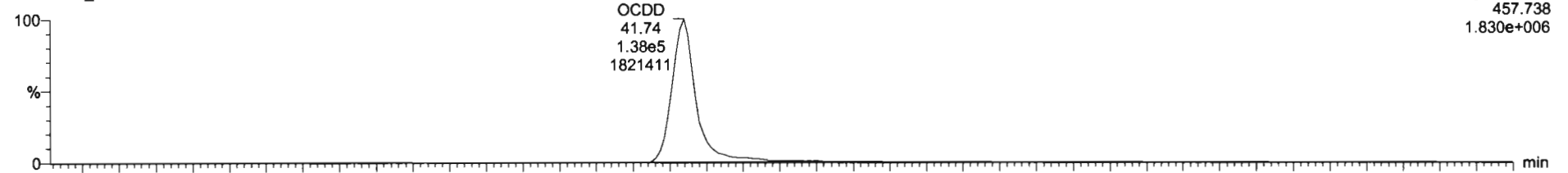
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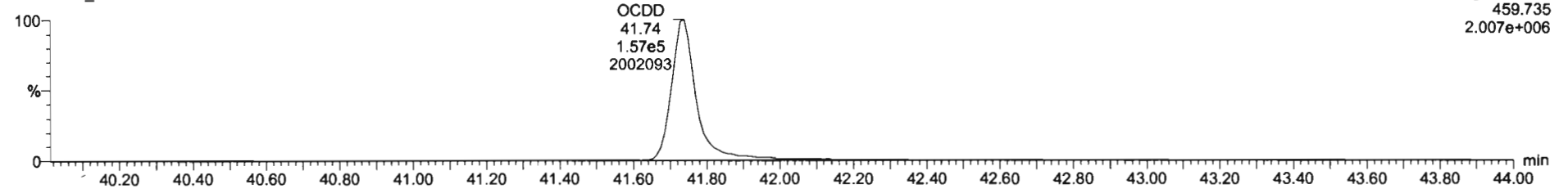
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OCDD

200701R1_1

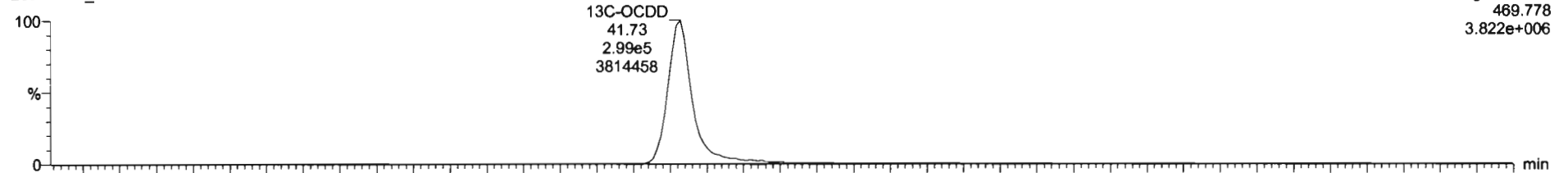


200701R1_1

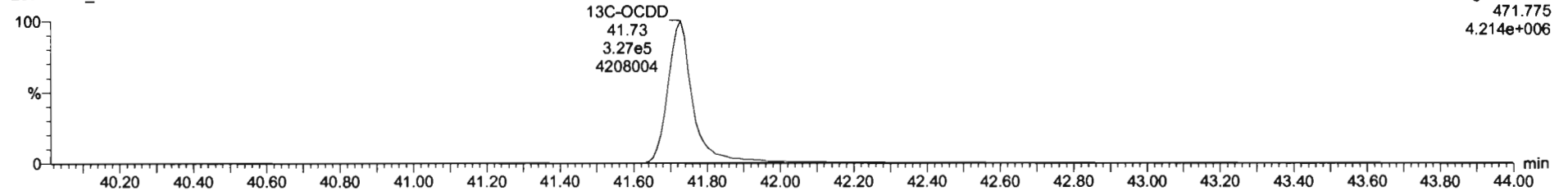


13C-OCDD

200701R1_1



200701R1_1



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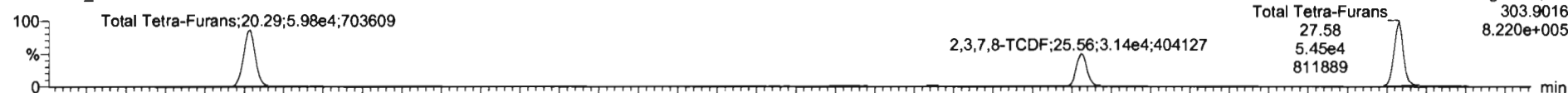
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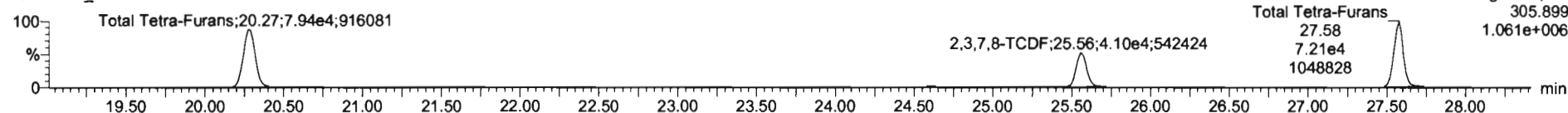
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2,3,7,8-TCDF

200701R1_1

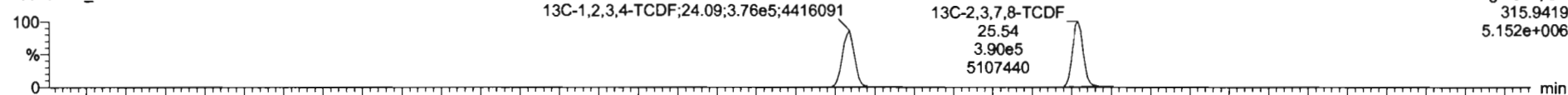


200701R1_1

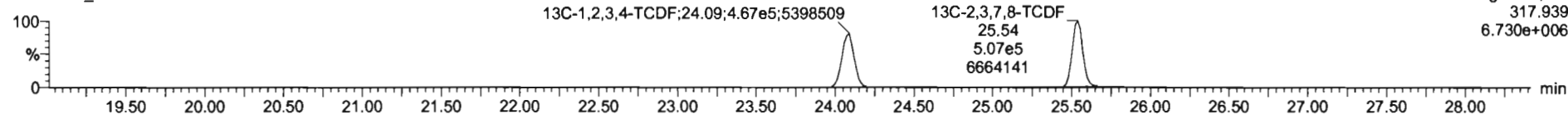


13C-2,3,7,8-TCDF

200701R1_1

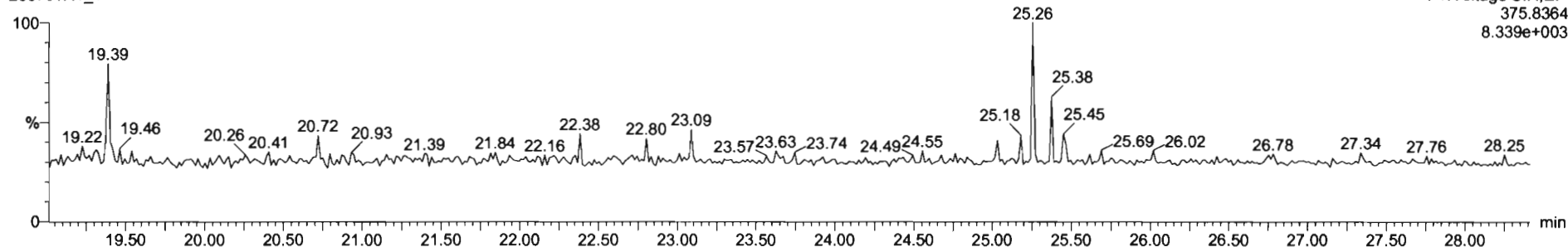


200701R1_1



DPE1

200701R1_1



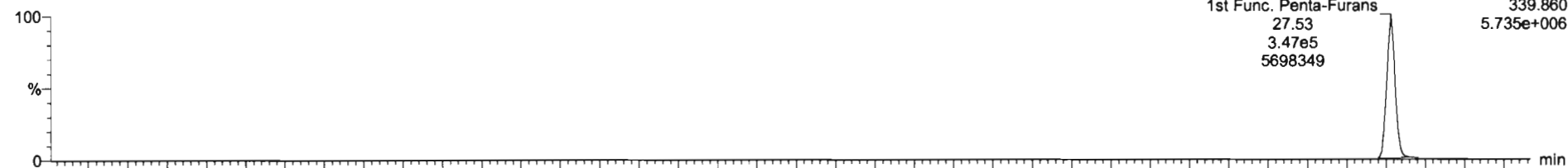
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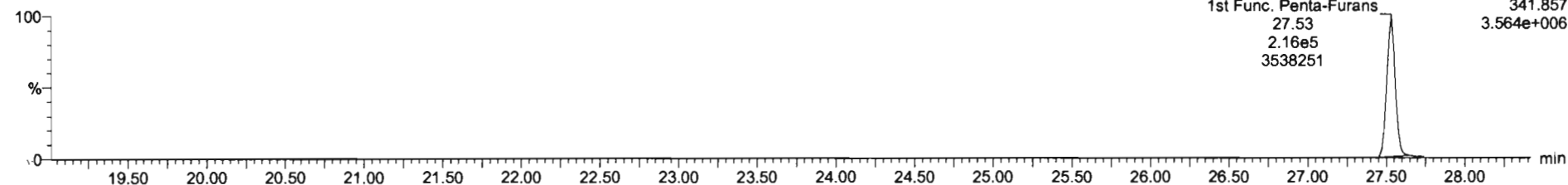
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200701R1_1

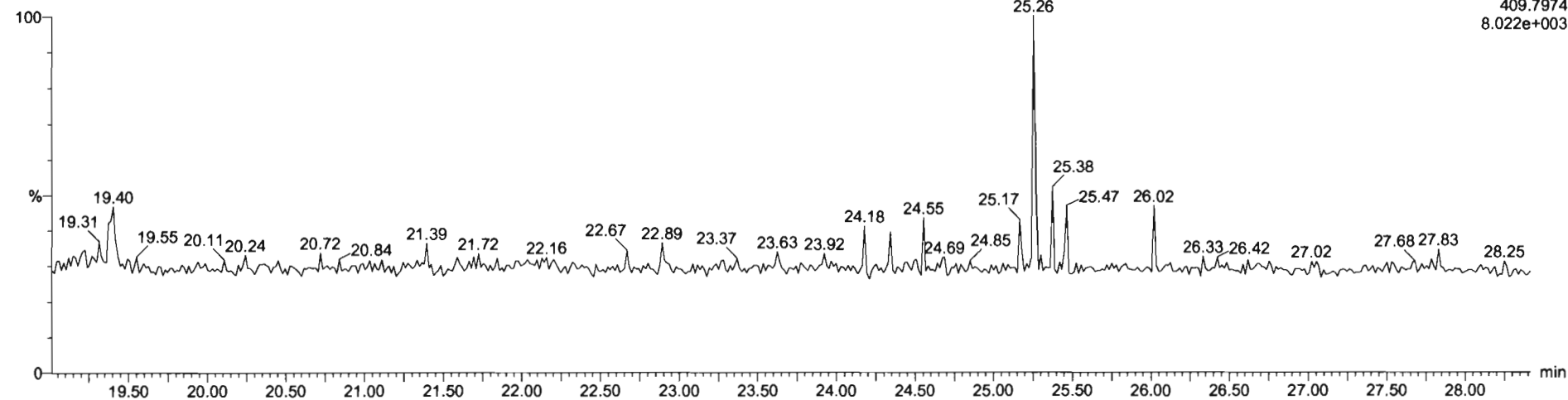


200701R1_1



DPE6

200701R1_1

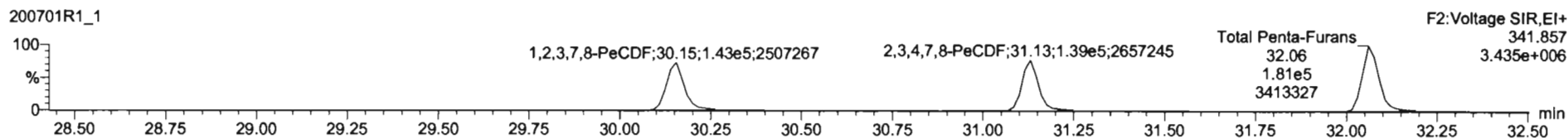
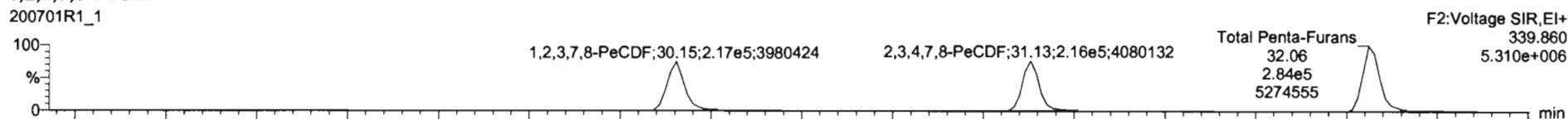


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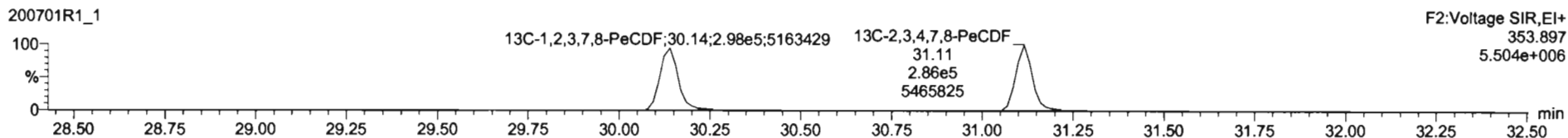
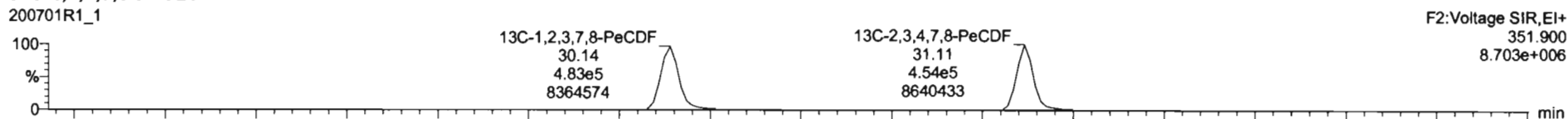
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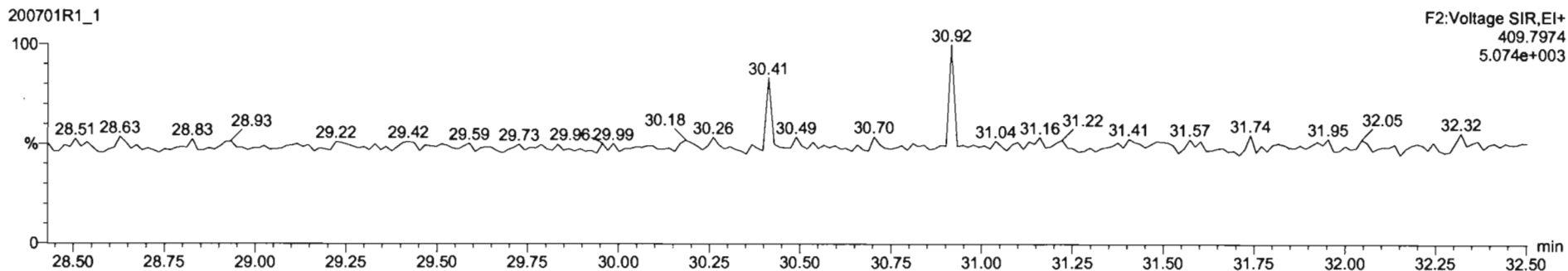
1,2,3,7,8-PeCDF



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



DPE2

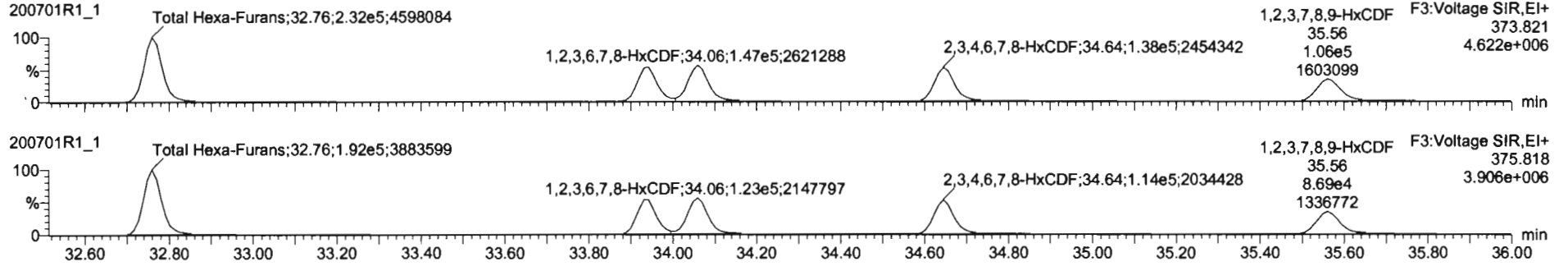


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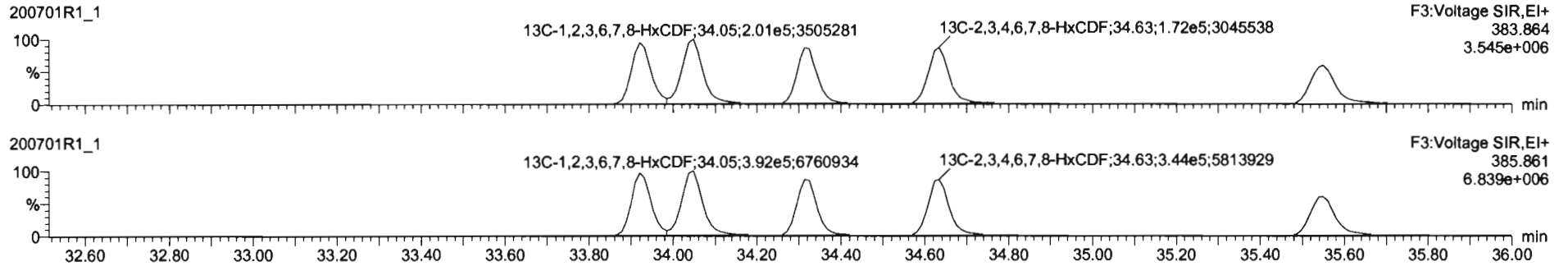
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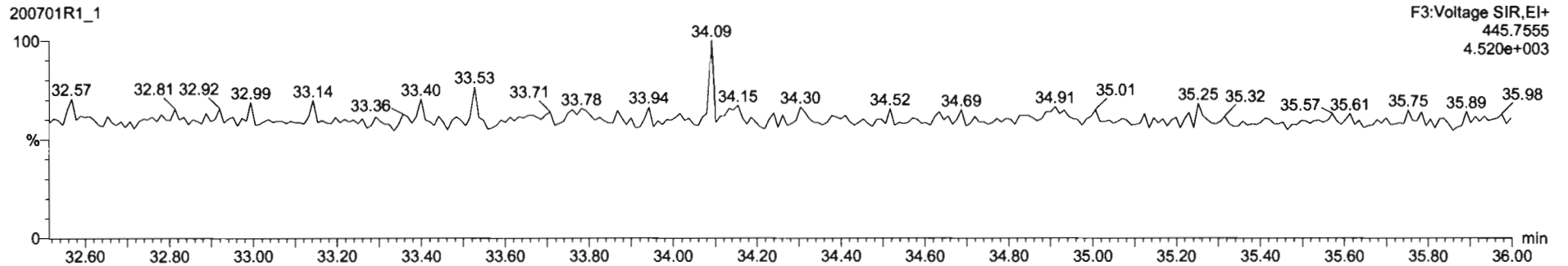
1,2,3,4,7,8-HxCDF



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



DPE3



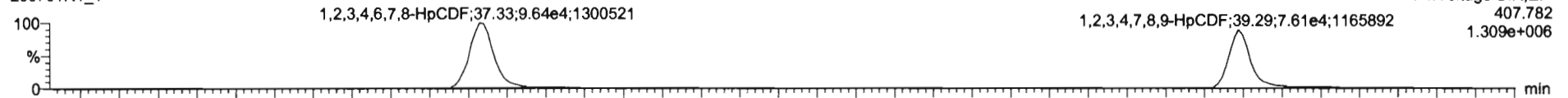
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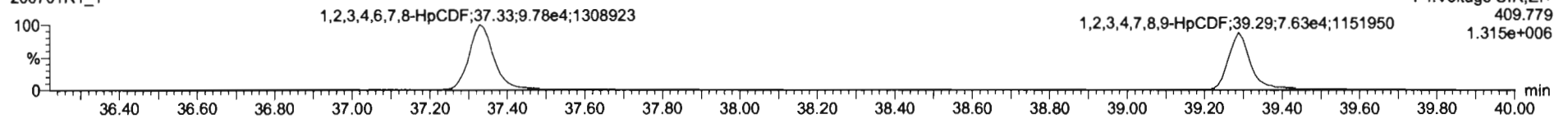
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1,2,3,4,6,7,8-HpCDF

200701R1_1

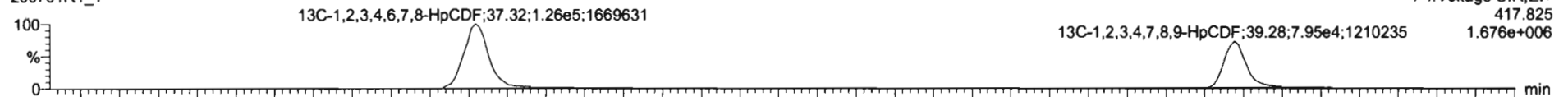


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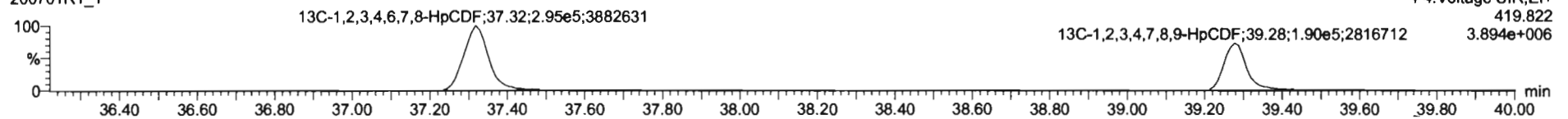


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200701R1_1

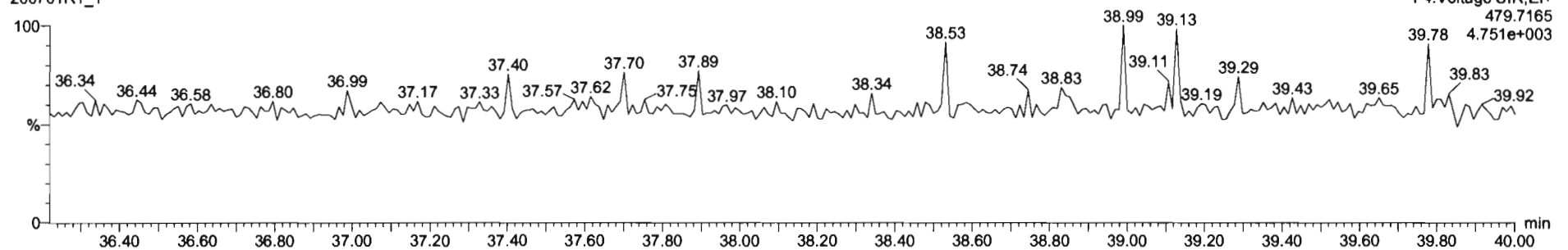


200701R1_1



DPE4

200701R1_1

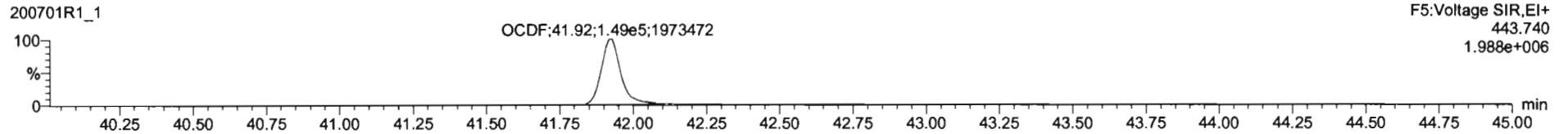
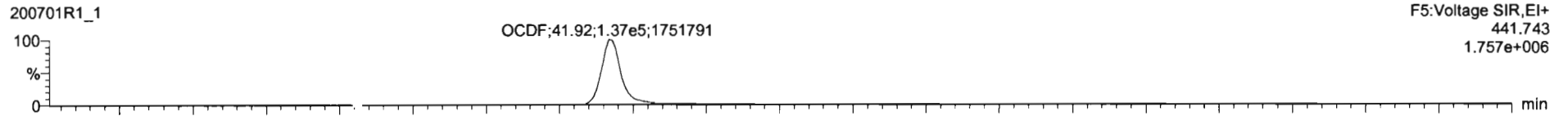


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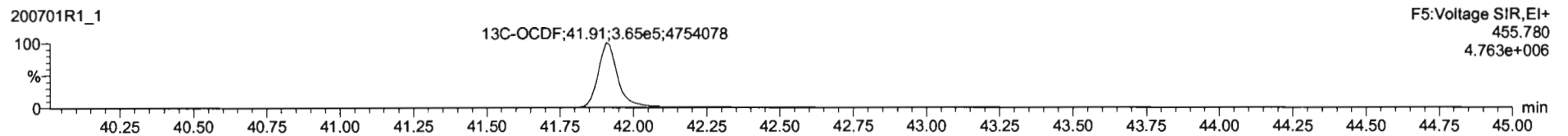
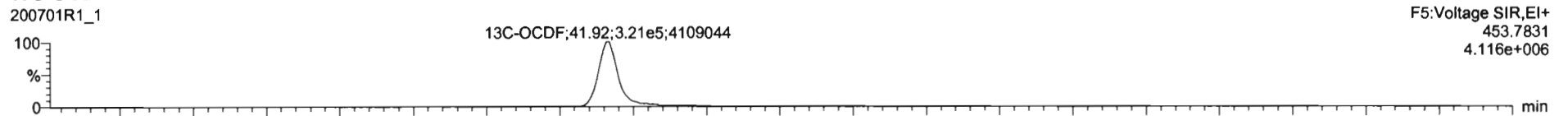
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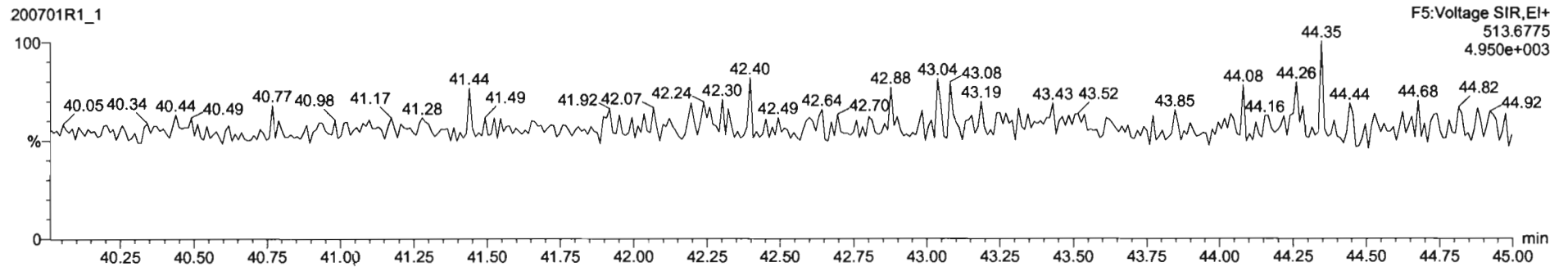
OCDF



13C-OCDF



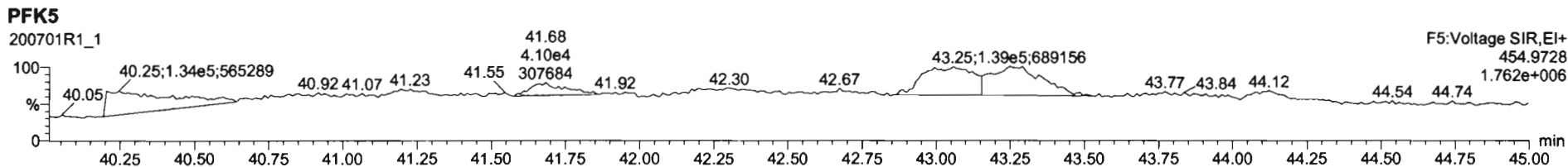
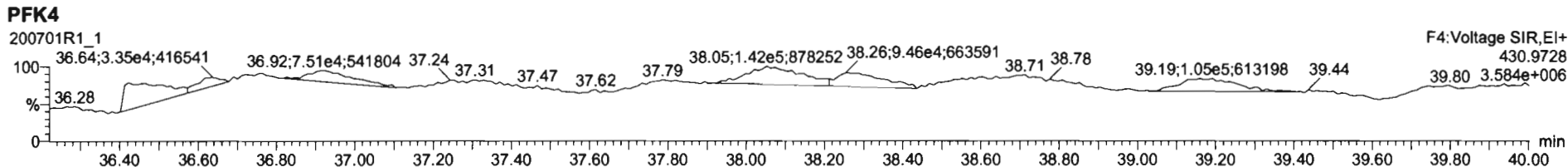
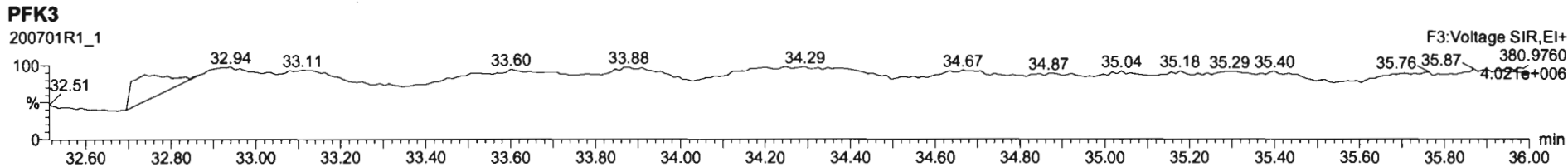
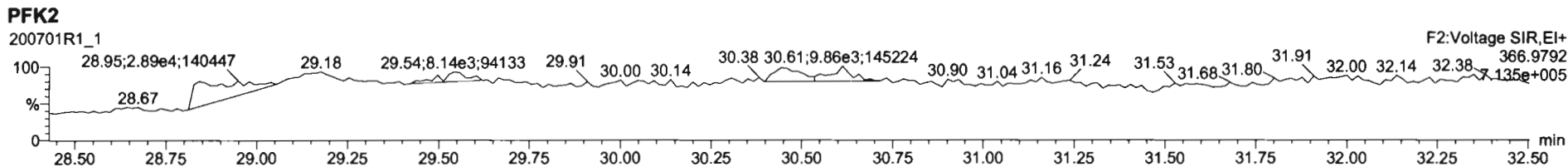
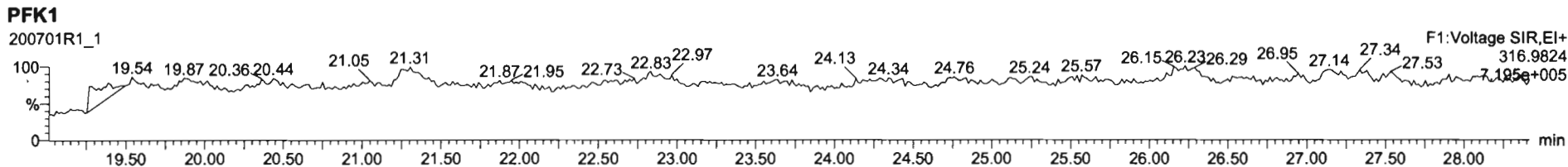
DPE5



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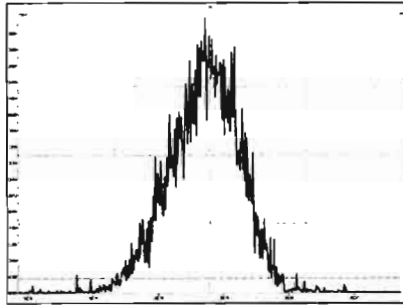
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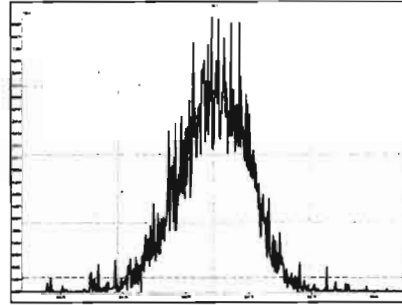


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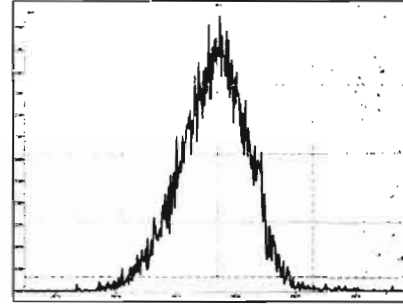
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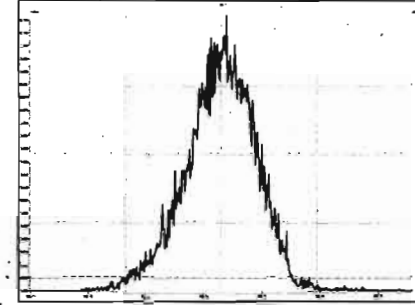
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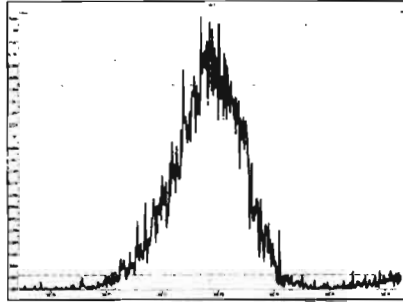
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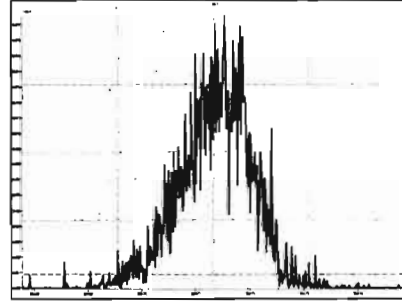
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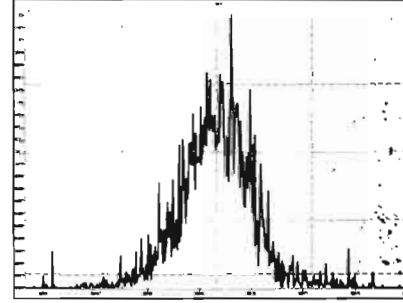
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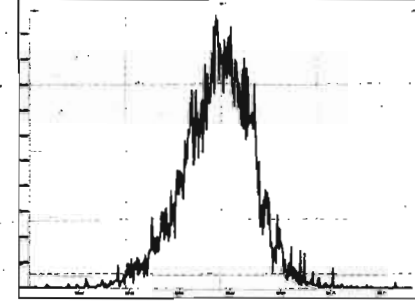
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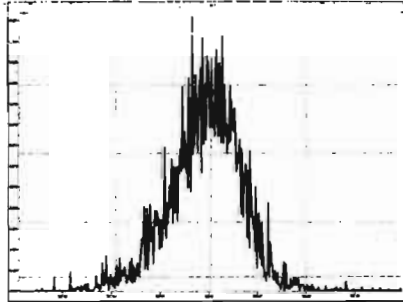
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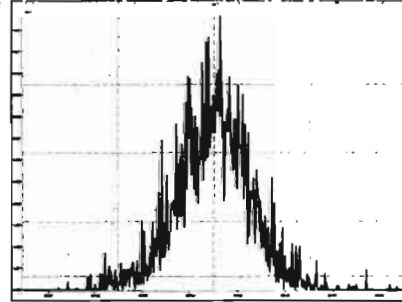
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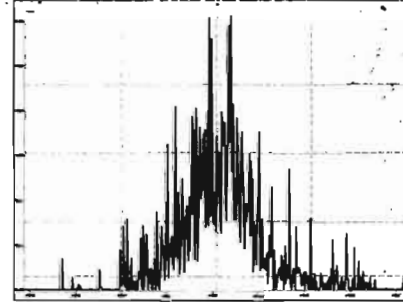
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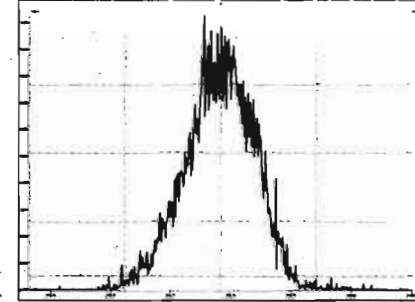
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M 416.9760 R 16866

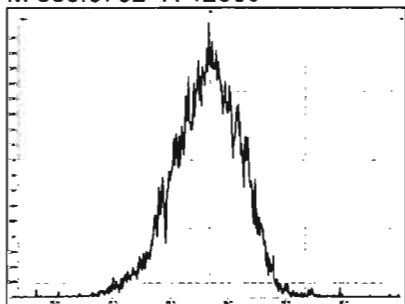


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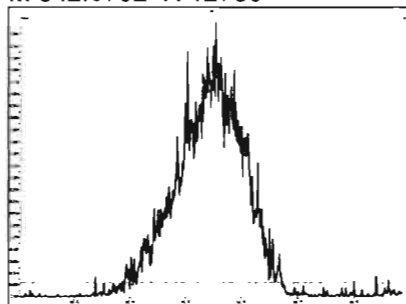


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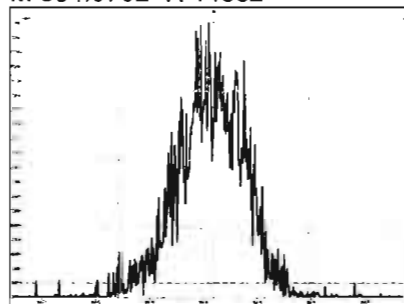
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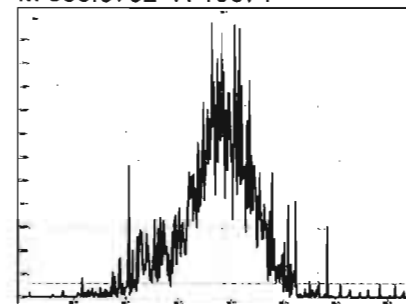
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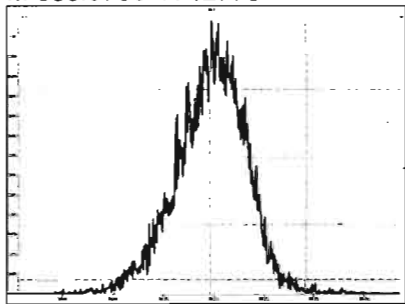
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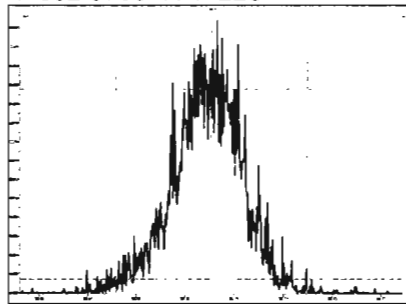
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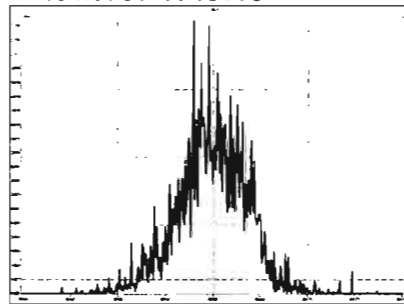
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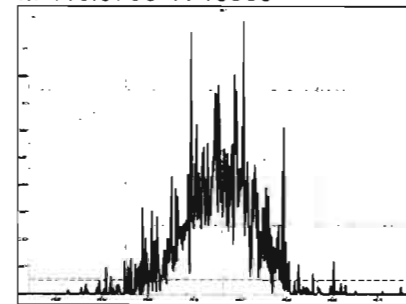
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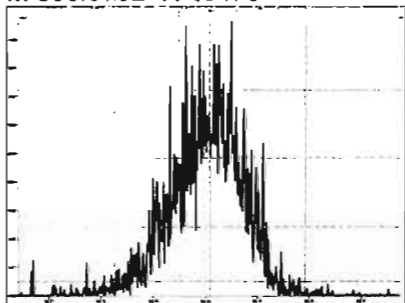
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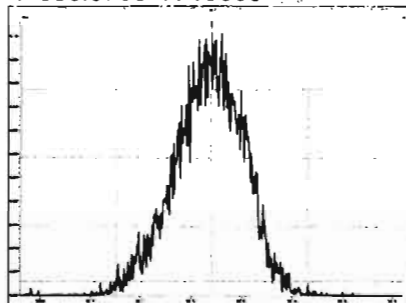
M 416.9760 R 16336



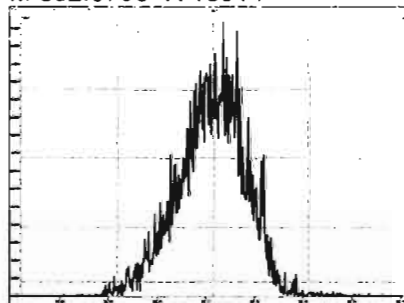
M 366.9792 R 13476



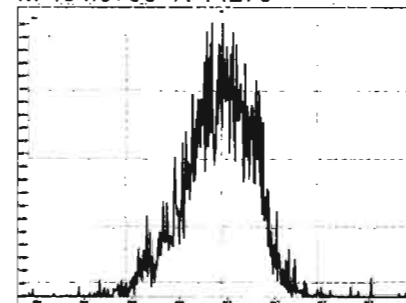
M 380.9760 R 13006



M 392.9760 R 13514

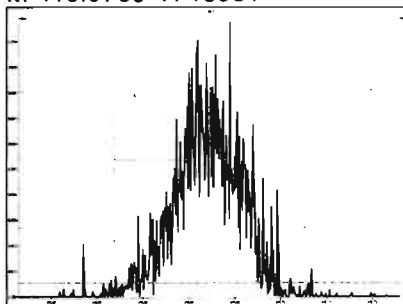


M 404.9760 R 14270

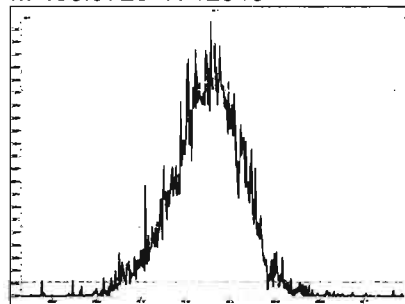


Printed: Thursday, July 02, 2020 02:15:44 Pacific Daylight Time

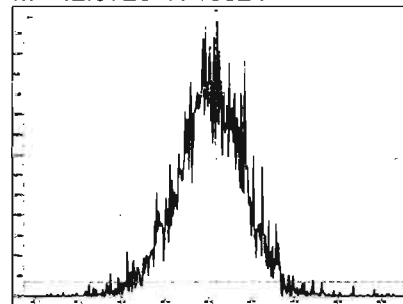
M 416.9760 R 16981



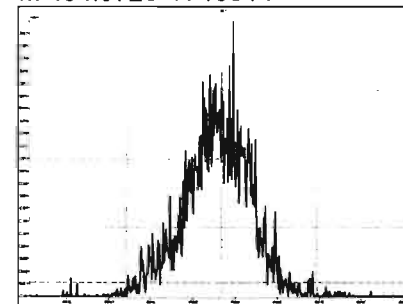
M 430.9728 R 12510



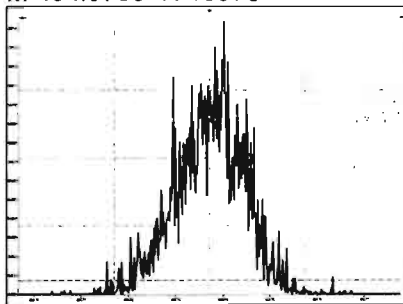
M 442.9728 R 13624



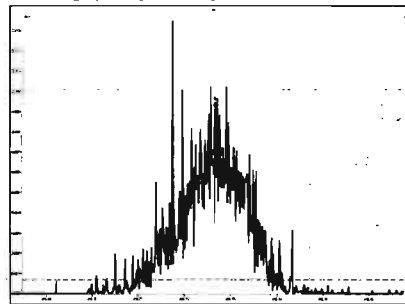
M 454.9728 R 15614



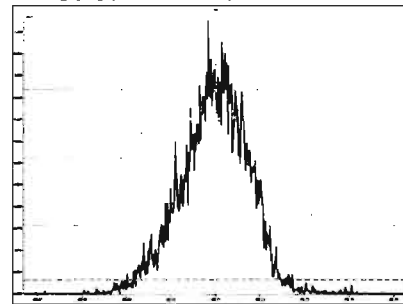
M 404.9760 R 13976



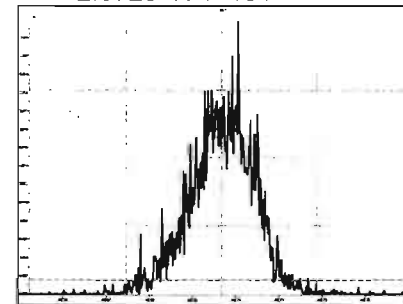
M 416.9760 R 15228



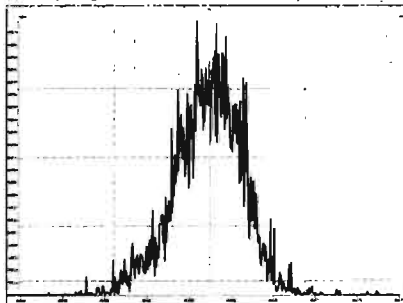
M 430.9728 R 12921



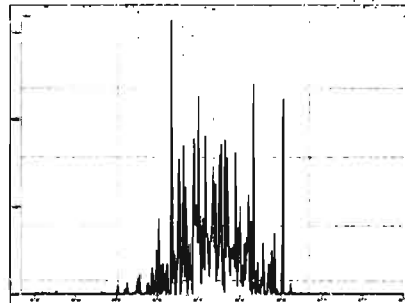
M 442.9728 R 14131



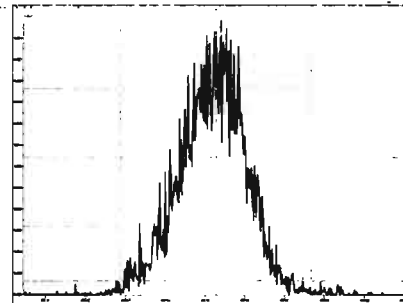
M 454.9728 R 13940



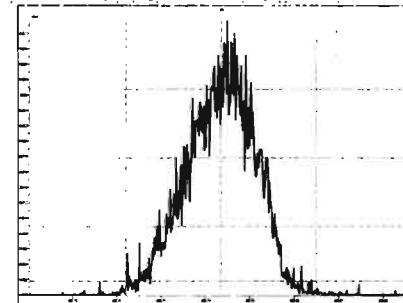
M 466.9728 R 57661



M 480.9696 R 13945

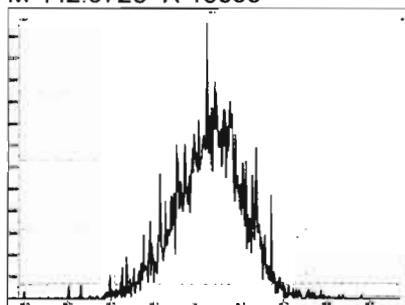


M 430.9728 R 12288

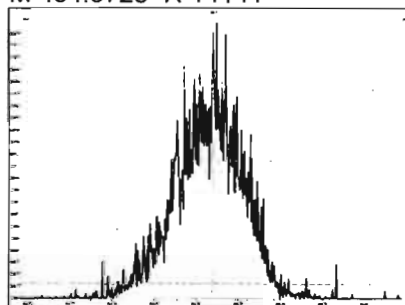


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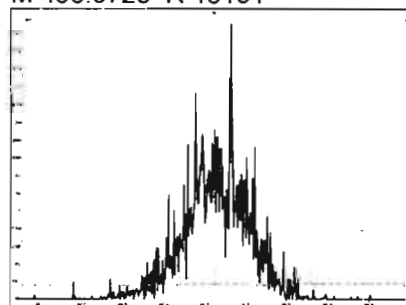
M 442.9728 R 13855



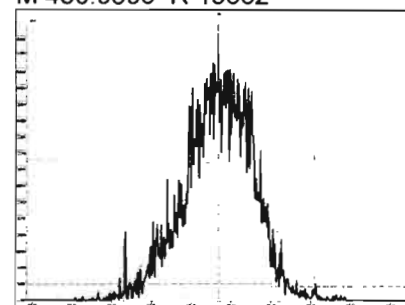
M 454.9728 R 14141



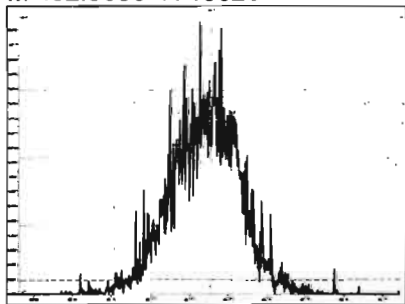
M 466.9728 R 16131



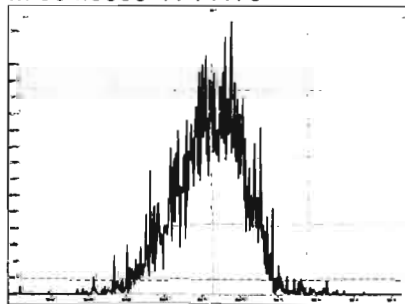
M 480.9696 R 13662



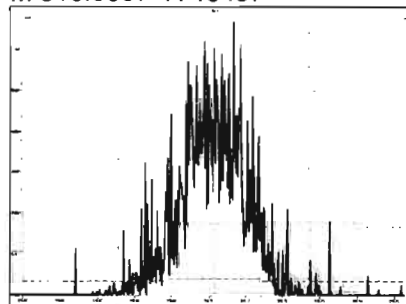
M 492.9696 R 13626



M 504.9696 R 14173



M 516.9697 R 16497



Dataset: U:\VG12.PRO\Results\200701R2\200701R2_2.qld

Last Altered: Thursday, July 02, 2020 10:28:48 Pacific Daylight Time
Printed: Thursday, July 02, 2020 10:29:39 Pacific Daylight Time

DB 7/2/20 *CT 07/03/2020*

Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-1-20.mdb 01 Jul 2020 12:59:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200701R2_2, Date: 02-Jul-2020, Time: 03:02:02, ID: ST200701R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	6.05e4	0.78	NO	0.888	1.000	26.455	26.44	1.001	1.001	10.278	103 78-129	0.0545	10.3
2	2 1,2,3,7,8-PeCDD	2.23e5	0.61	NO	0.908	1.000	31.442	31.44	1.001	1.000	49.784	99.6 78-130	0.143	49.8
3	3 1,2,3,4,7,8-HxCDD	1.94e5	1.24	NO	1.03	1.000	34.814	34.81	1.000	1.000	50.755	102 78-128	0.167	50.8
4	4 1,2,3,6,7,8-HxCDD	2.08e5	1.25	NO	0.892	1.000	34.910	34.92	1.000	1.000	51.002	102 78-128	0.174	51.0
5	5 1,2,3,7,8,9-HxCDD	1.87e5	1.27	NO	0.887	1.000	35.233	35.21	1.001	1.000	49.921	99.8 82-122	0.195	49.9
6	6 1,2,3,4,6,7,8-HpCDD	1.38e5	1.03	NO	0.864	1.000	38.756	38.76	1.000	1.000	49.728	99.5 86-116	0.250	49.7
7	7 OCDD	2.66e5	0.88	NO	0.914	1.000	41.748	41.76	1.000	1.000	105.36	105 79-126	0.159	105
8	8 2,3,7,8-TCDF	7.20e4	0.77	NO	0.751	1.000	25.551	25.56	1.001	1.001	10.443	104 84-120	0.0570	10.4
9	9 1,2,3,7,8-PeCDF	3.45e5	1.57	NO	0.893	1.000	30.144	30.14	1.001	1.001	51.576	103 82-120	0.151	51.6
10	10 2,3,4,7,8-PeCDF	3.42e5	1.57	NO	0.935	1.000	31.146	31.13	1.001	1.000	49.899	99.8 82-120	0.131	49.9
11	11 1,2,3,4,7,8-HxCDF	2.37e5	1.21	NO	0.884	1.000	33.930	33.94	1.000	1.000	53.024	106 90-112	0.173	53.0
12	12 1,2,3,6,7,8-HxCDF	2.61e5	1.20	NO	0.889	1.000	34.058	34.06	1.000	1.000	50.297	101 88-114	0.157	50.3
13	13 2,3,4,6,7,8-HxCDF	2.45e5	1.21	NO	0.934	1.000	34.668	34.65	1.001	1.001	51.745	103 88-114	0.175	51.7
14	14 1,2,3,7,8,9-HxCDF	1.84e5	1.25	NO	0.871	1.000	35.560	35.57	1.000	1.000	50.998	102 90-112	0.273	51.0
15	15 1,2,3,4,6,7,8-HpCDF	1.73e5	0.99	NO	0.873	1.000	37.376	37.36	1.001	1.001	53.445	107 90-110	0.181	53.4
16	16 1,2,3,4,7,8,9-HpCDF	1.34e5	1.03	NO	1.01	1.000	39.298	39.31	1.000	1.000	53.579	107 86-116	0.207	53.6
17	17 OCDF	2.61e5	0.87	NO	0.806	1.000	41.939	41.95	1.000	1.000	106.83	107 63-159	0.173	107
18	18 13C-2,3,7,8-TCDD	6.63e5	0.79	NO	1.16	1.000	26.471	26.42	1.027	1.026	102.19	102 82-121	0.116	
19	19 13C-1,2,3,7,8-PeCDD	4.93e5	0.63	NO	0.849	1.000	31.678	31.42	1.230	1.219	103.43	103 62-160	0.179	
20	20 13C-1,2,3,4,7,8-HxCDD	3.70e5	1.27	NO	0.779	1.000	34.798	34.80	1.014	1.014	97.421	97.4 85-117	0.235	
21	21 13C-1,2,3,6,7,8-HxCDD	4.57e5	1.27	NO	1.02	1.000	34.898	34.91	1.017	1.017	92.237	92.2 85-118	0.180	
22	22 13C-1,2,3,7,8,9-HxCDD	4.22e5	1.25	NO	0.903	1.000	35.172	35.20	1.025	1.025	95.982	96.0 85-118	0.203	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.21e5	1.04	NO	0.689	1.000	38.687	38.74	1.127	1.129	95.631	95.6 72-138	0.222	
24	24 13C-OCDD	5.53e5	0.89	NO	0.652	1.000	41.982	41.75	1.223	1.216	173.98	87.0 48-207	0.298	
25	25 13C-2,3,7,8-TCDF	9.18e5	0.78	NO	1.06	1.000	25.471	25.53	0.989	0.991	100.87	101 71-140	0.157	
26	26 13C-1,2,3,7,8-PeCDF	7.50e5	1.60	NO	0.838	1.000	30.351	30.12	1.178	1.169	104.17	104 76-130	0.317	
27	27 13C-2,3,4,7,8-PeCDF	7.32e5	1.61	NO	0.817	1.000	31.354	31.11	1.217	1.208	104.35	104 77-130	0.326	
28	28 13C-1,2,3,4,7,8-HxCDF	5.05e5	0.51	NO	1.01	1.000	33.933	33.93	0.989	0.989	102.79	103 76-131	0.353	
29	29 13C-1,2,3,6,7,8-HxCDF	5.84e5	0.51	NO	1.17	1.000	34.050	34.05	0.992	0.992	102.67	103 70-143	0.305	
30	30 13C-2,3,4,6,7,8-HxCDF	5.07e5	0.52	NO	1.02	1.000	34.626	34.63	1.009	1.009	101.74	102 73-139	0.348	
31	31 13C-1,2,3,7,8,9-HxCDF	4.14e5	0.49	NO	0.860	1.000	35.533	35.56	1.035	1.036	98.834	98.8 74-135	0.414	

Dataset: U:\VG12.PRO\Results\200701R2\200701R2_2.qld

Last Altered: Thursday, July 02, 2020 10:28:48 Pacific Daylight Time

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Name: 200701R2_2, Date: 02-Jul-2020, Time: 03:02:02, ID: ST200701R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	3.70e5	0.43	NO	0.774	1.000	37.256	37.34	1.085	1.088	97.917	97.9 <i>78-120</i>	0.314	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.47e5	0.44	NO	0.521	1.000	39.291	39.30	1.145	1.145	97.197	97.2 <i>77-129</i>	0.467	
34	34 13C-OCDF	6.05e5	0.91	NO	0.746	1.000	42.171	41.94	1.229	1.222	166.53	83.3 <i>68-207</i>	0.212	
35	35 37Cl-2,3,7,8-TCDD	6.20e4			1.04	1.000	26.492	26.44	1.028	1.026	10.652	107 <i>79-177</i>	0.0251	
36	36 13C-1,2,3,4-TCDD	5.61e5	0.80	NO	1.00	1.000	25.780	25.77	1.000	1.000	100.00	100	0.135	
37	37 13C-1,2,3,4-TCDF	8.59e5	0.81	NO	1.00	1.000	24.070	24.07	1.000	1.000	100.00	100	0.166	
38	38 13C-1,2,3,4,6,9-HxCDF	4.88e5	0.52	NO	1.00	1.000	34.340	34.32	1.000	1.000	100.00	100	0.356	

Dataset: Untitled

Last Altered: Thursday, July 02, 2020 10:31:13 Pacific Daylight Time

Printed: Thursday, July 02, 2020 10:31:43 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: 200701R2_2, Date: 02-Jul-2020, Time: 03:02:02, ID: ST200701R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.41
2	1,2,8,9-TCDD (Last)	27.41
3	1,2,4,7,9-PeCDD (First)	29.21
4	1,2,3,8,9-PeCDD (Last)	31.82
5	1,2,4,6,7,9-HxCDD (First)	33.31
6	1,2,3,7,8,9-HxCDD (Last)	35.21
7	1,2,3,4,6,7,9-HpCDD (First)	37.73
8	1,2,3,4,6,7,8-HpCDD (Last)	38.76
9	1,3,6,8-TCDF (First)	20.27
10	1,2,8,9-TCDF (Last)	27.56
11	1,3,4,6,8-PeCDF (First)	27.52
12	1,2,3,8,9-PeCDF (Last)	32.06
13	1,2,3,4,6,8-HxCDF (First)	32.76
14	1,2,3,7,8,9-HxCDF (Last)	35.57
15	1,2,3,4,6,7,8-HpCDF (First)	37.36
16	1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

Last Altered: Thursday, July 02, 2020 15:59:13 Pacific Daylight Time
Printed: Thursday, July 02, 2020 15:59:29 Pacific Daylight Time

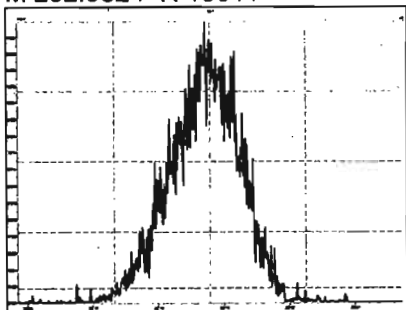
Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613_rrt-7-1-20.mdb 01 Jul 2020 12:59:26
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

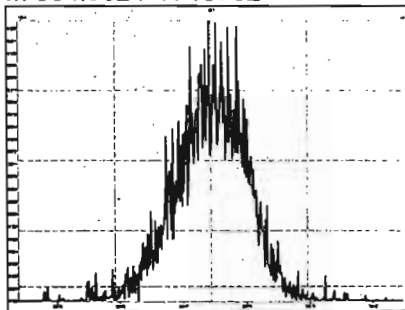
	Name	ID	Acq.Date	Acq.Time
1	200701R2_1	SOLVENT BLANK	02-Jul-20	02:15:47
2	200701R2_2	ST200701R2_1 1613 CS3 19L2305	02-Jul-20	03:02:02
3	200701R2_3	SOLVENT BLANK	02-Jul-20	03:48:15
4	200701R2_4	2001206-01 Effluent Grab 0.97342	02-Jul-20	04:34:29
5	200701R2_5	2001171-01 Hangar 362/Navy Base 0.98136	02-Jul-20	05:20:44
6	200701R2_6	2001145-02 FD4 0.92328	02-Jul-20	06:06:57
7	200701R2_7	2001145-01 W338M 0.95802	02-Jul-20	06:53:11
8	200701R2_8	2001344-01 GAIN-D-001-C-061920 0.5	02-Jul-20	07:39:27
9	200701R2_9	2001207-01 ISUXO20SS350001 10.85	02-Jul-20	08:25:41
10	200701R2_10	2001207-02 ISUXO20SB350102 11.15	02-Jul-20	09:11:55
11	200701R2_11	2001207-03 ISUXO20SS390001 15.85	02-Jul-20	09:58:11
12	200701R2_12	2001207-04 ISUXO20SB390102 12.79	02-Jul-20	10:44:26
13	200701R2_13	2001243-03 ISUXO20SS500001 21.23	02-Jul-20	11:30:38
14	200701R2_14	2001243-10 ISUXO20SSP50P0001 21.03	02-Jul-20	12:16:54
15	200701R2_15	2000855-15RE3 PDI-076SC-A-06-07-191013 ...	02-Jul-20	13:03:07
16	200701R2_16	SOLVENT BLANK	02-Jul-20	13:58:12
17	200701R2_17	ST200701R2_2 1613 CS3 19L2305	02-Jul-20	14:44:28

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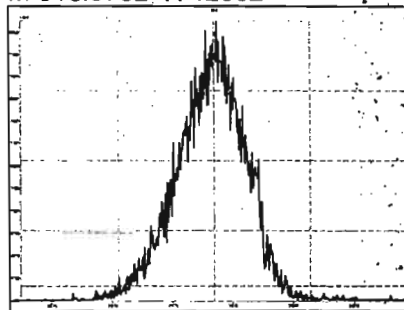
M 292.9824 R 13011



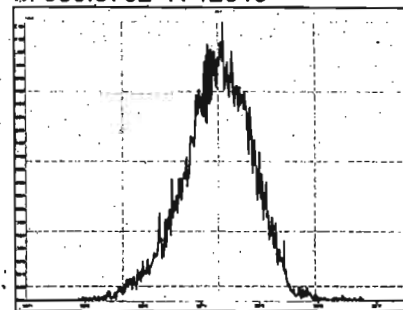
M 304.9824 R 13782



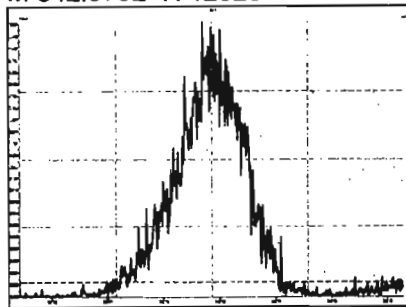
M 318.9792 R 12562



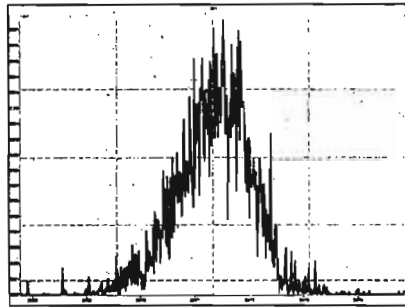
M 330.9792 R 12319



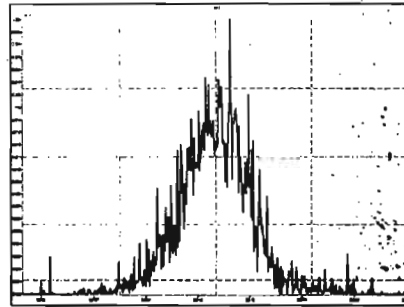
M 342.9792 R 12920



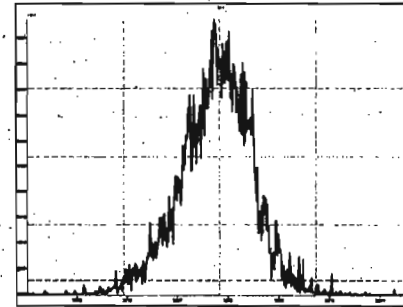
M 354.9792 R 13769



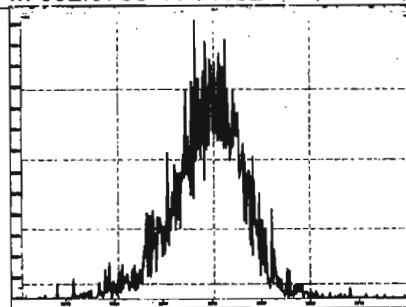
M 366.9792 R 13699



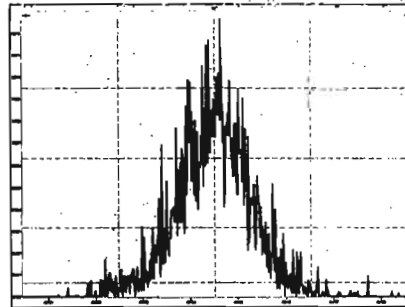
M 380.9760 R 12890



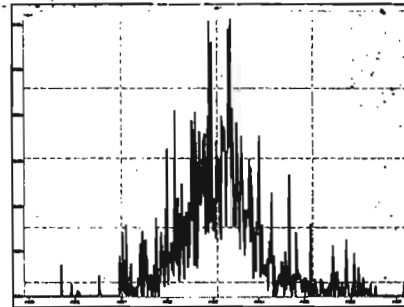
M 392.9760 R 14102



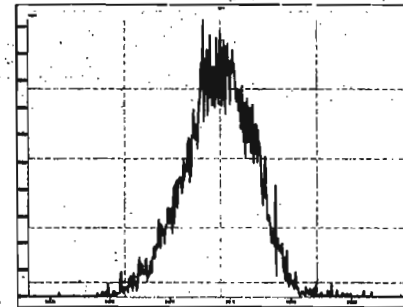
M 404.9760 R 13987



M 416.9760 R 16866



M 318.9792 R 12921

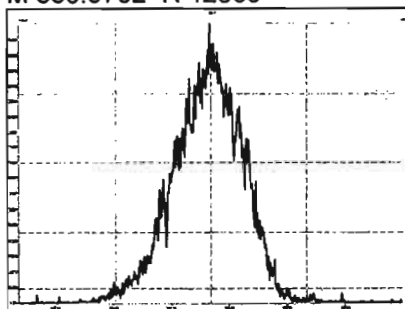


Resolution Check Report

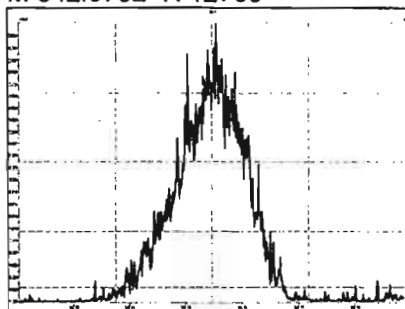
MassLynx 4.1 SCN815

Printed: Thursday, July 02, 2020 02:15:44 Pacific Daylight Time

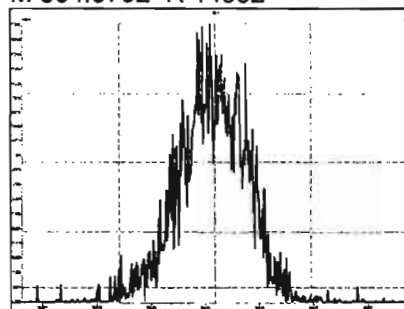
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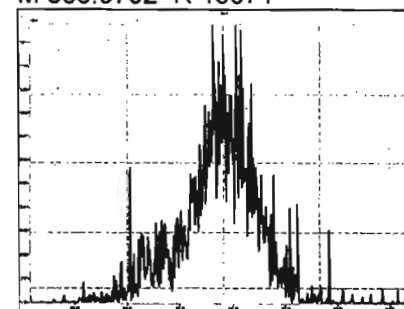
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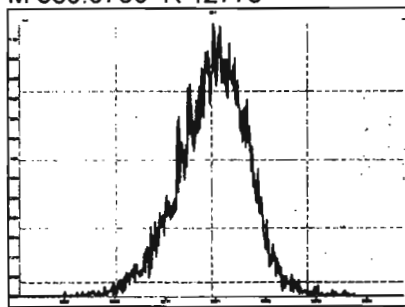
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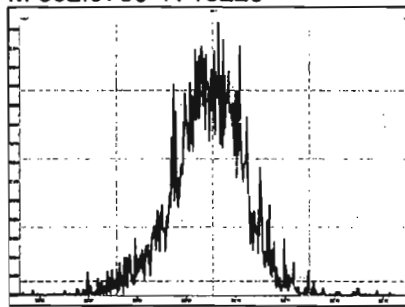
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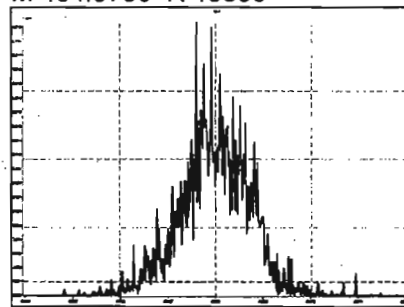
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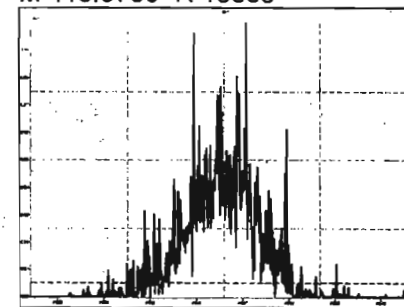
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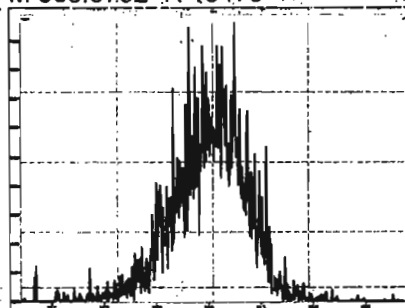
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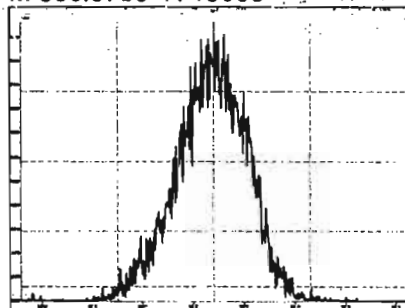
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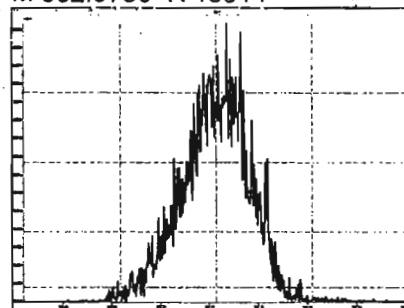
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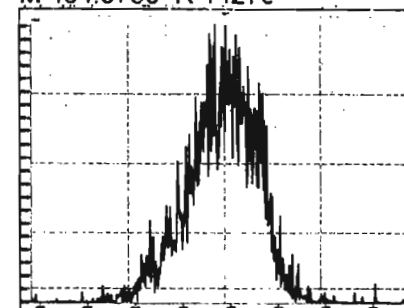
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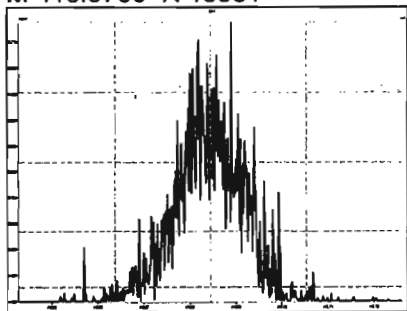


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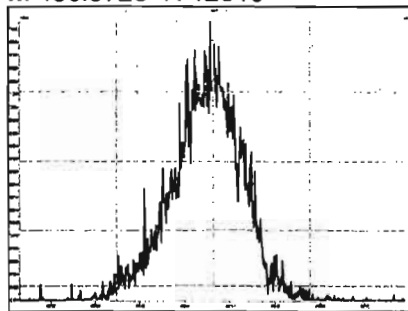


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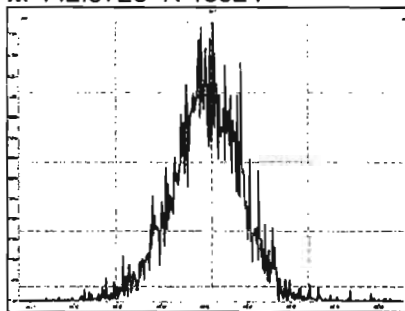
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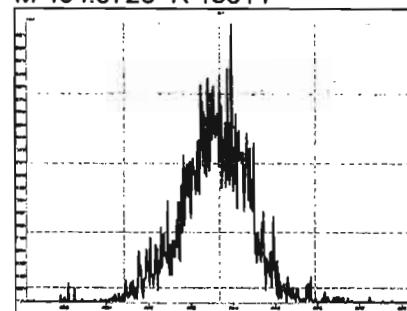
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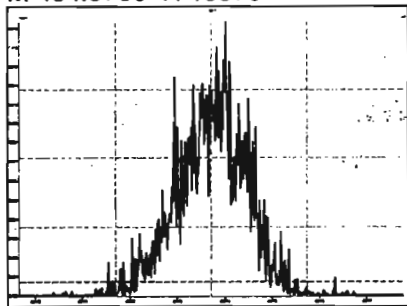
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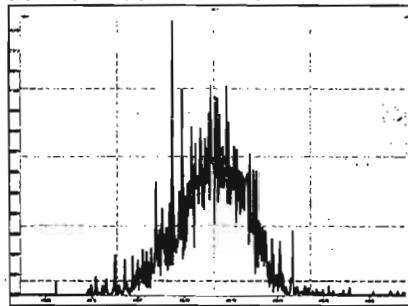
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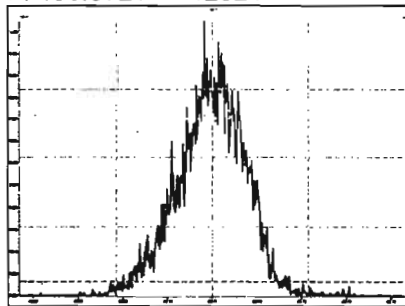
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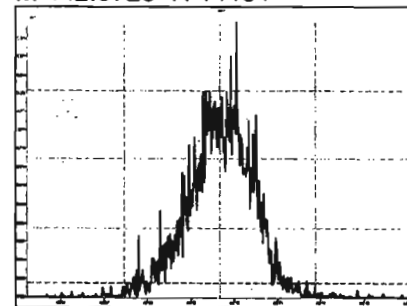
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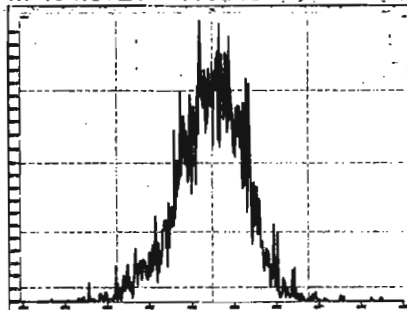
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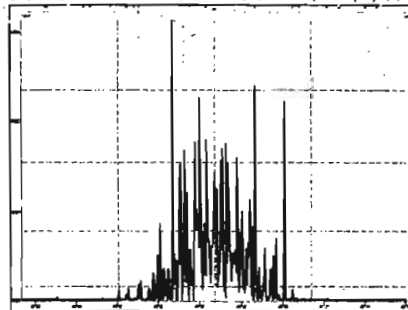
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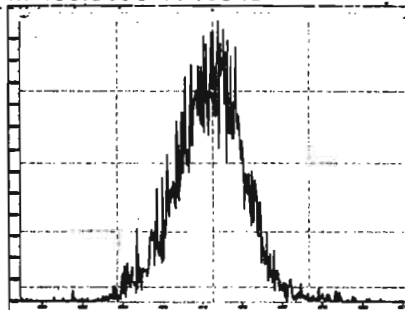
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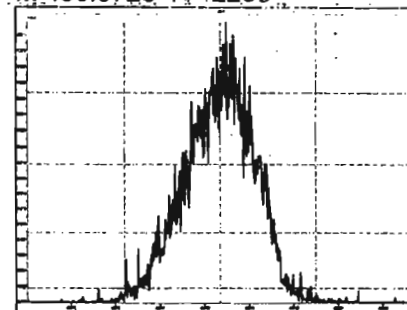
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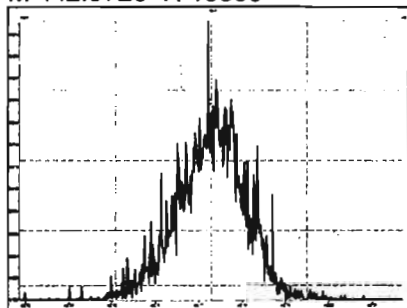


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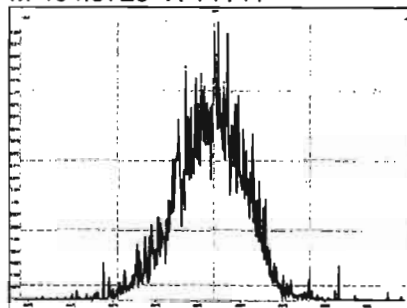


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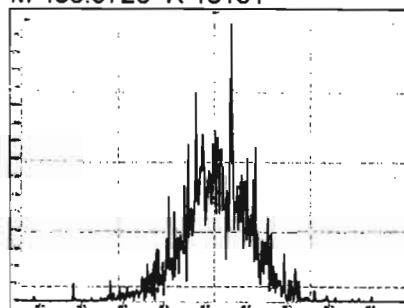
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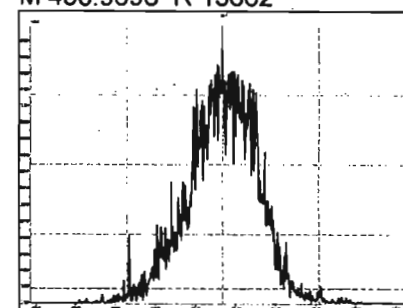
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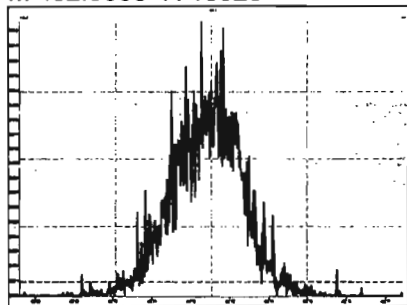
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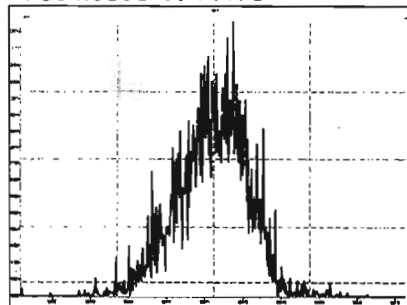
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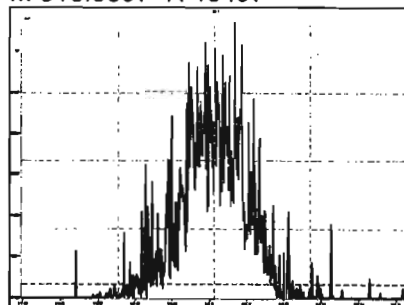
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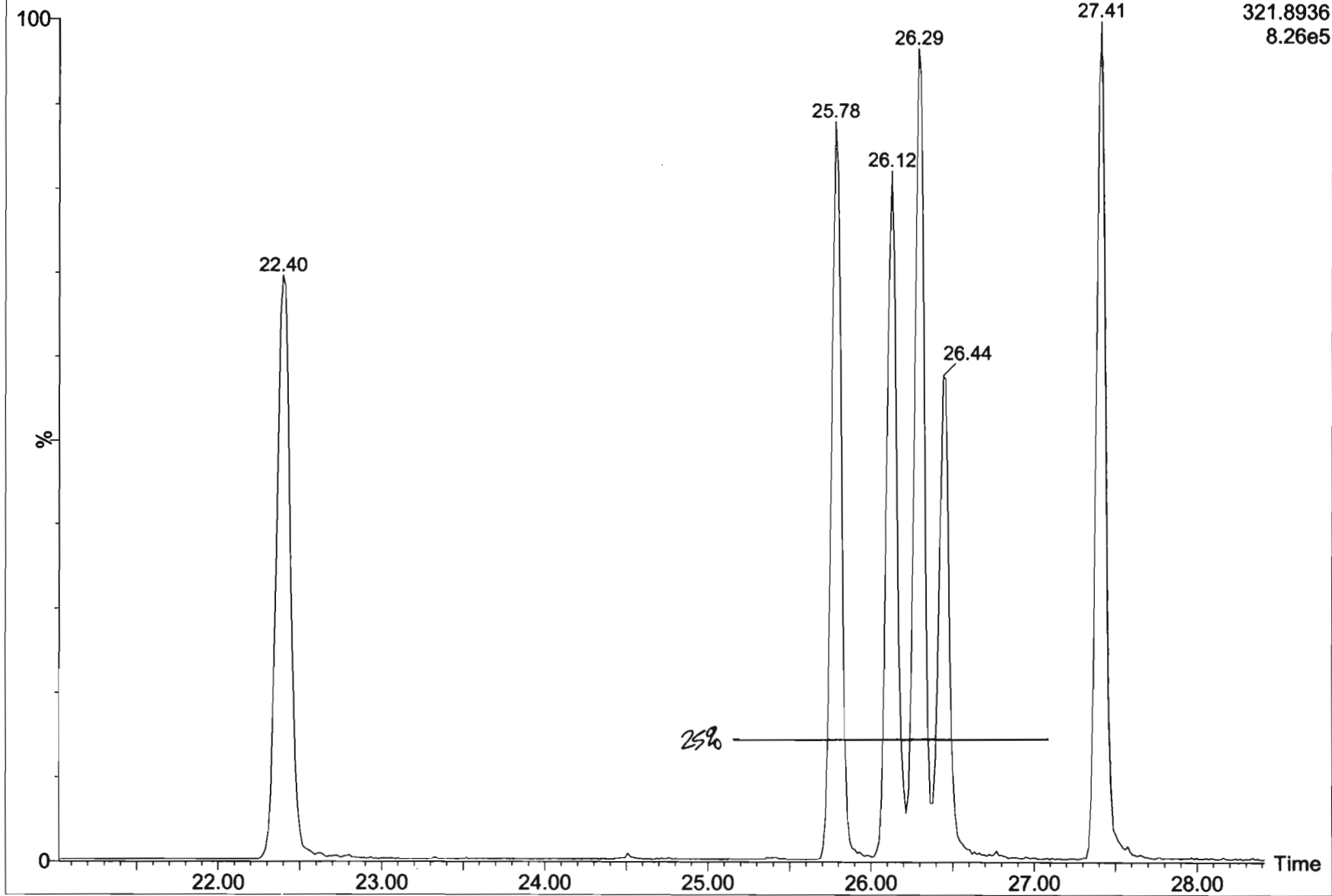
1613 CS3 19L2305

200701R2_2

1: Voltage SIR 14 Channels EI+

321.8936

8.26e5



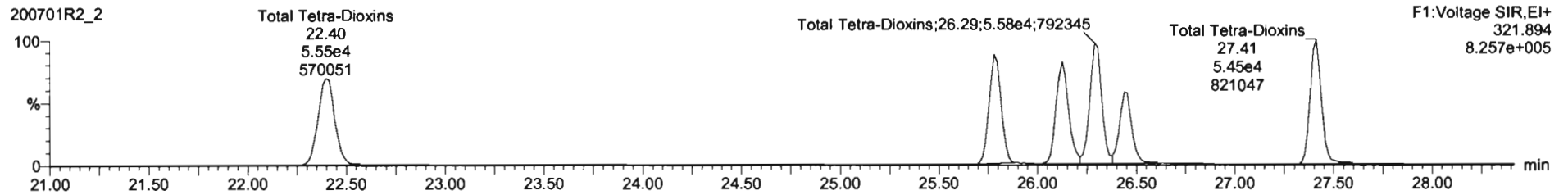
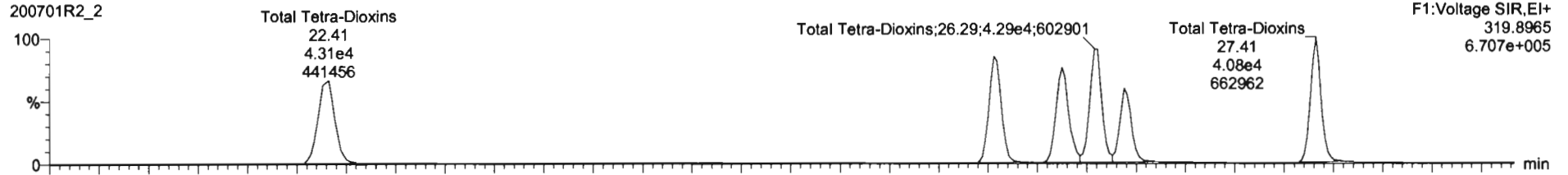
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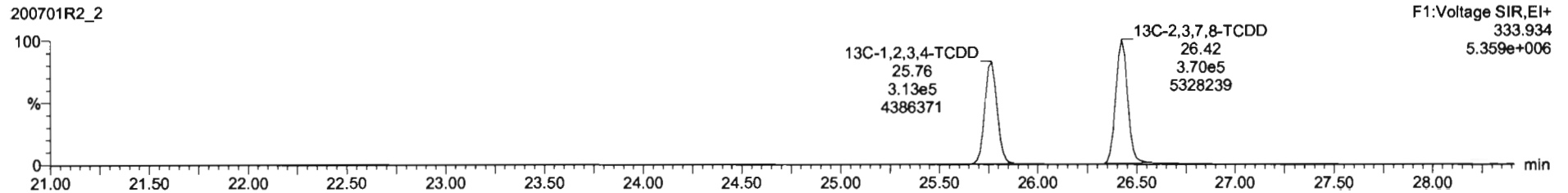
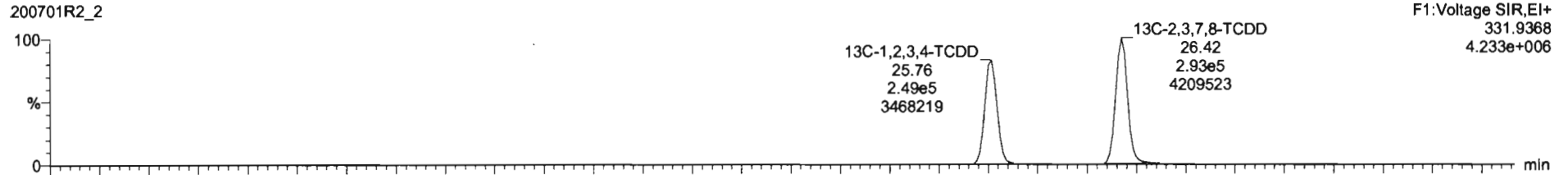
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2,3,7,8-TCDD



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



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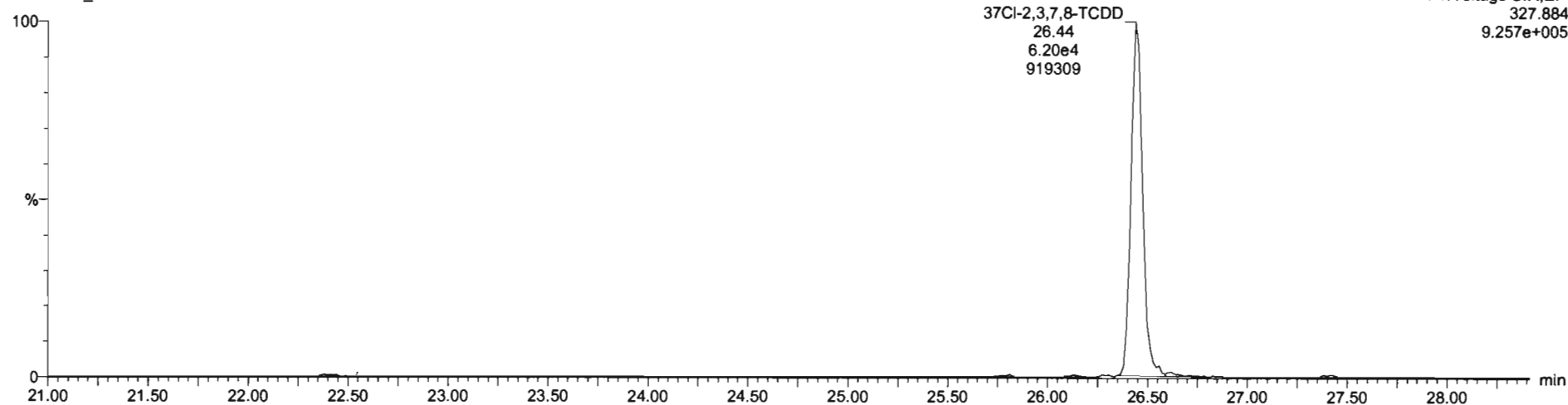
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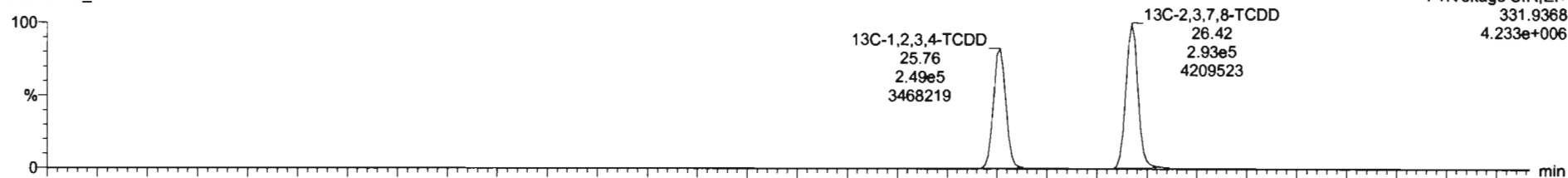
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200701R2_2

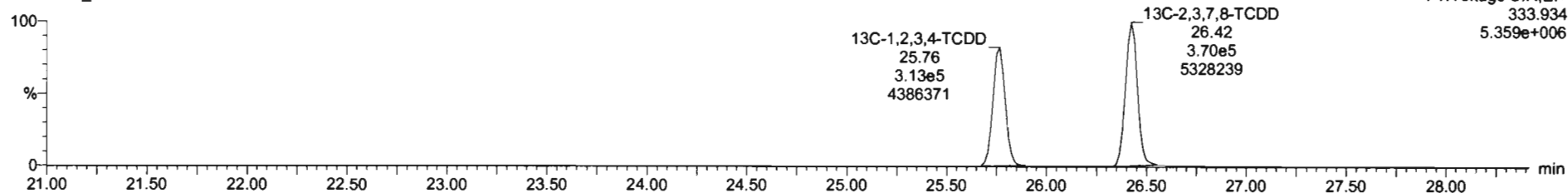


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200701R2_2



200701R2_2



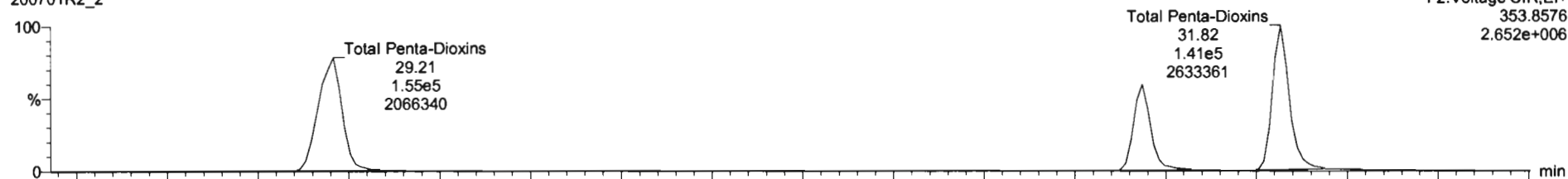
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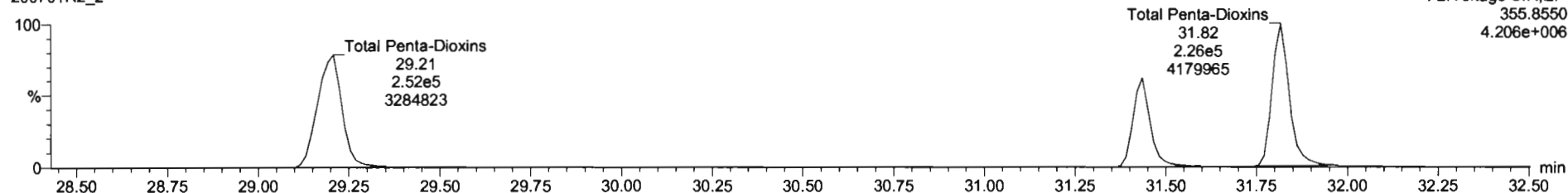
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1,2,3,7,8-PeCDD

200701R2_2

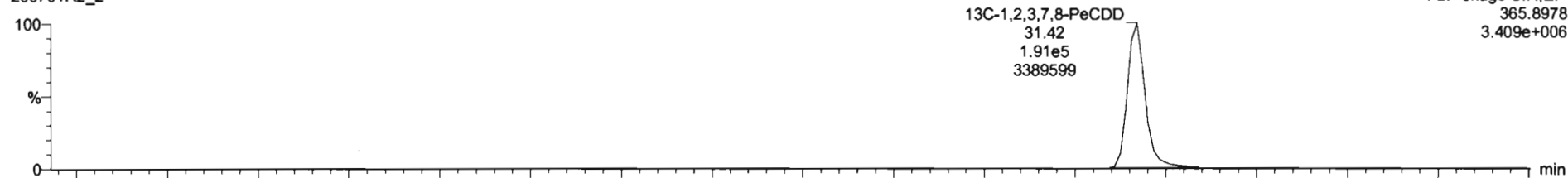


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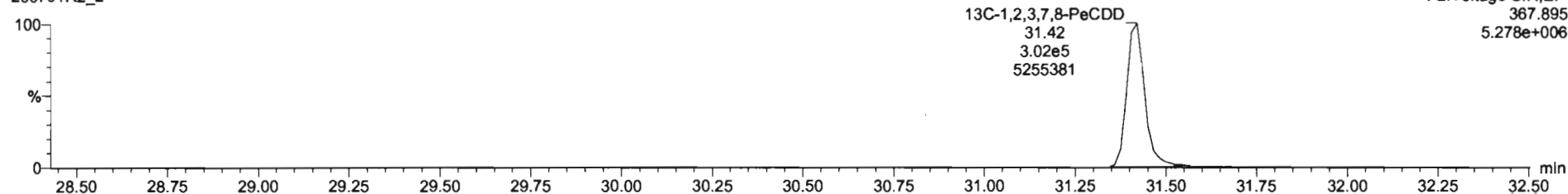


13C-1,2,3,7,8-PeCDD

200701R2_2



200701R2_2



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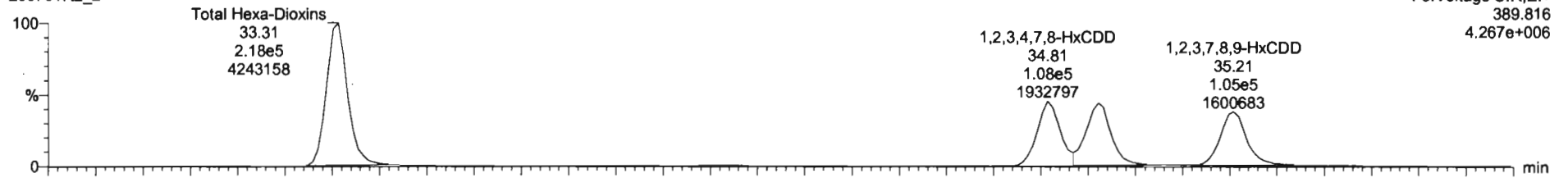
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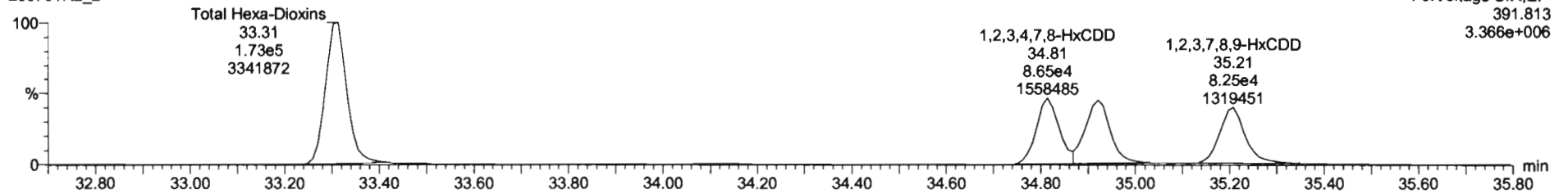
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1,2,3,4,7,8-HxCDD

200701R2_2

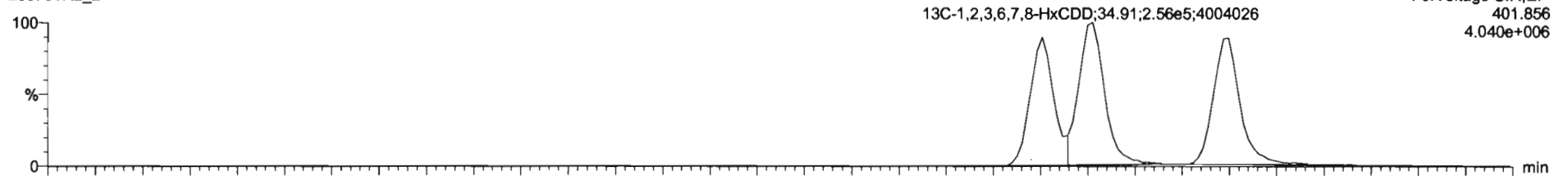


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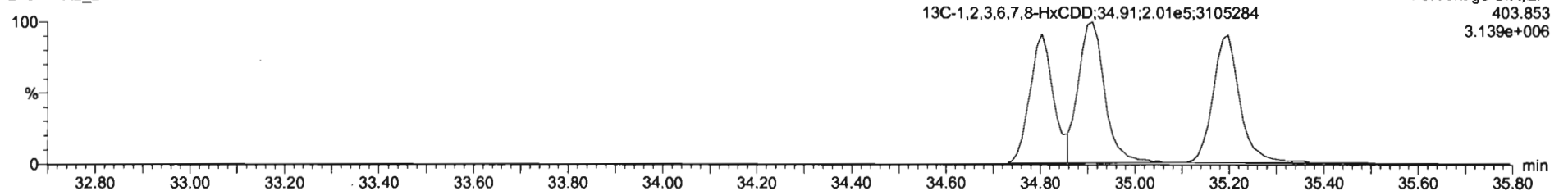


13C-1,2,3,4,7,8-HxCDD

200701R2_2



200701R2_2



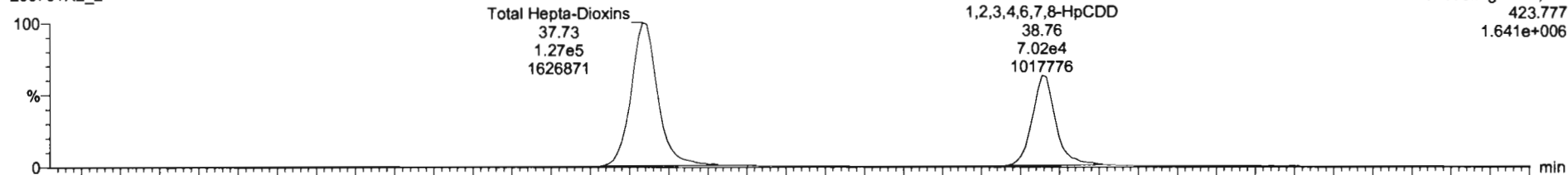
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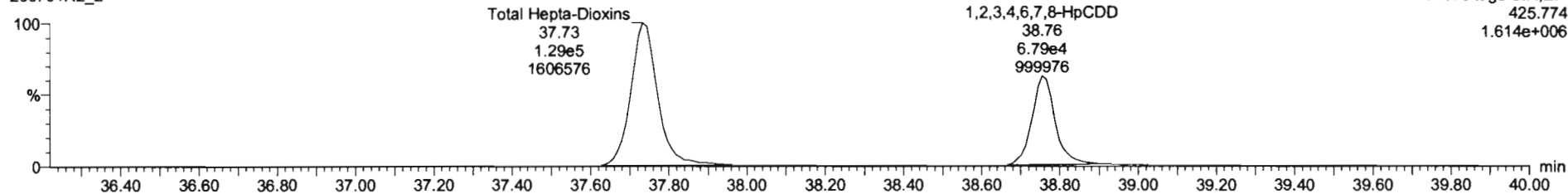
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1,2,3,4,6,7,8-HpCDD

200701R2_2

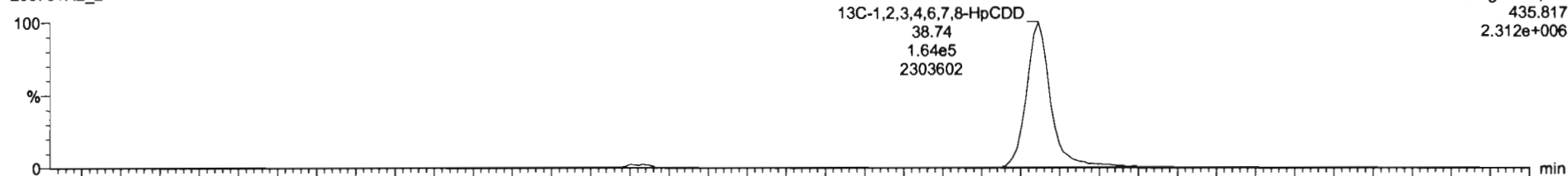


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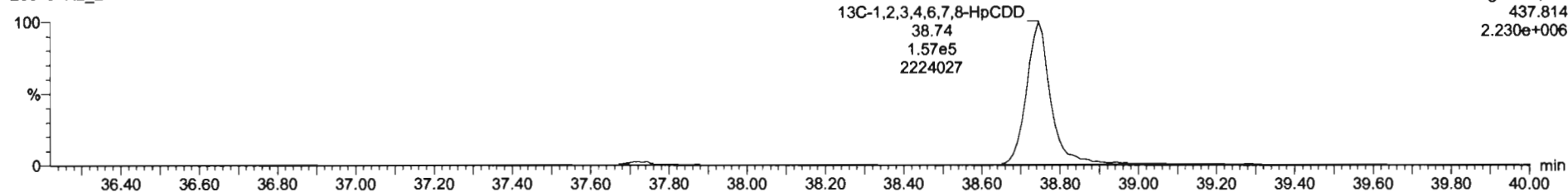


13C-1,2,3,4,6,7,8-HpCDD

200701R2_2



200701R2_2



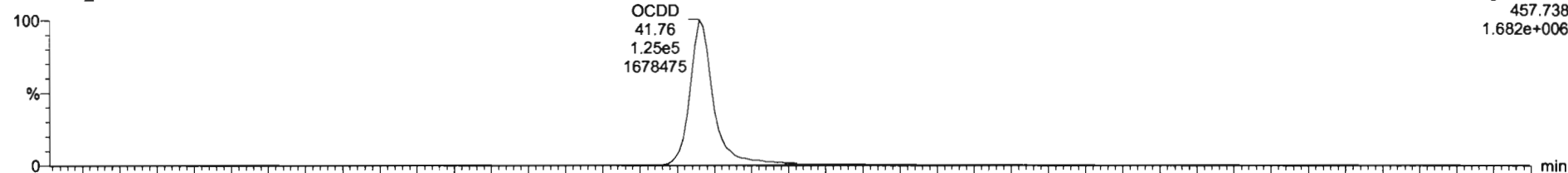
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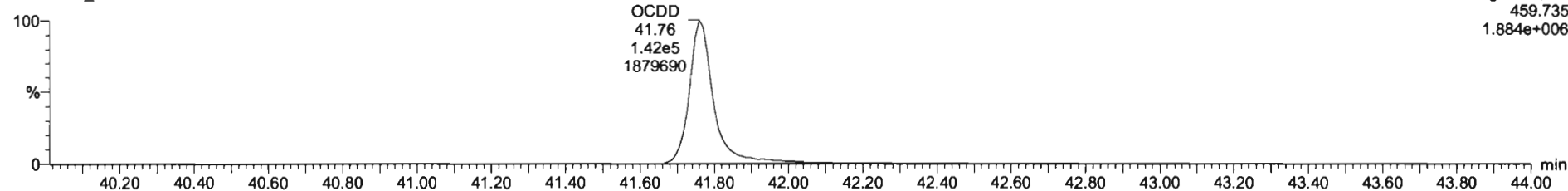
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OCDD

200701R2_2

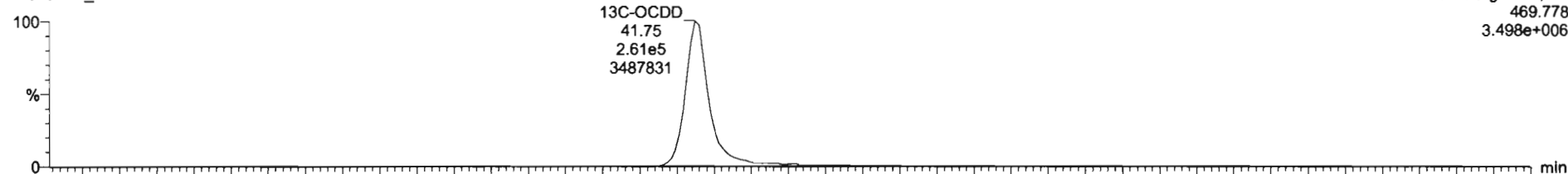


200701R2_2

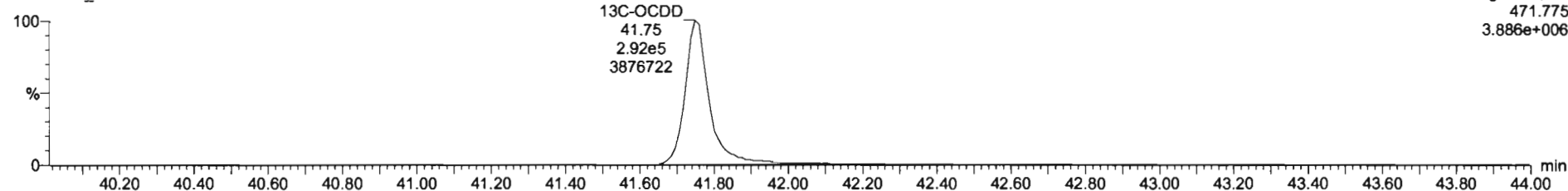


13C-OCDD

200701R2_2



200701R2_2



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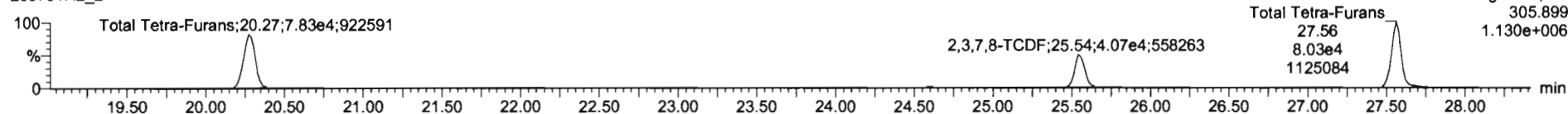
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2,3,7,8-TCDF

200701R2_2

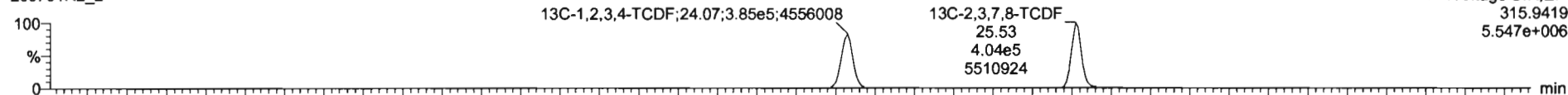


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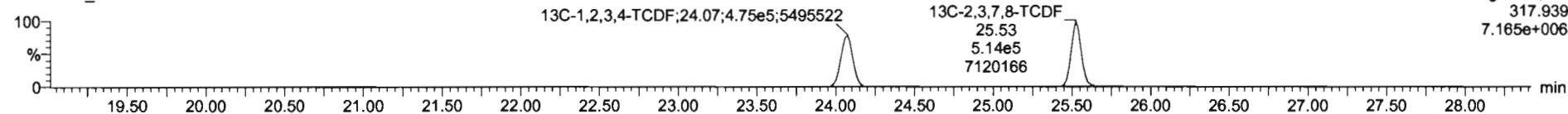


13C-2,3,7,8-TCDF

200701R2_2

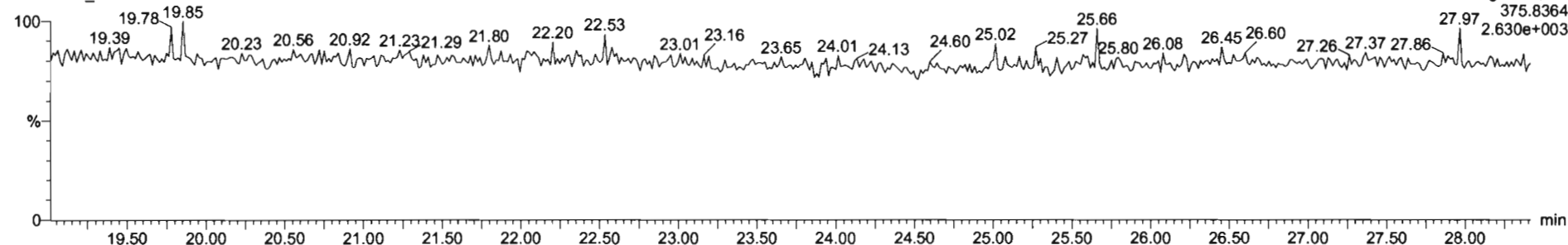


200701R2_2



DPE1

200701R2_2



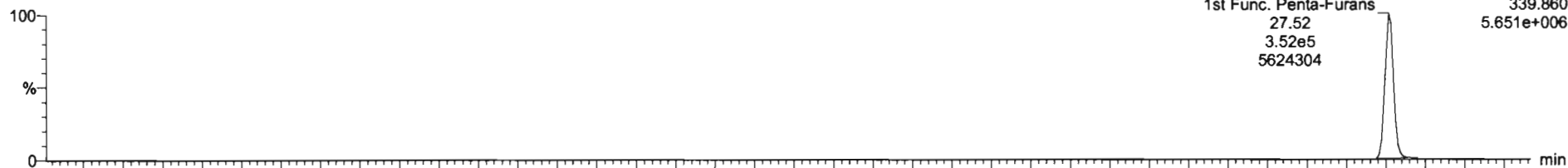
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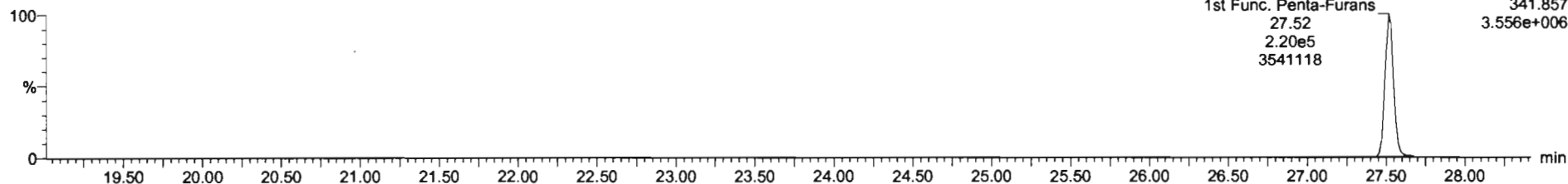
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200701R2_2

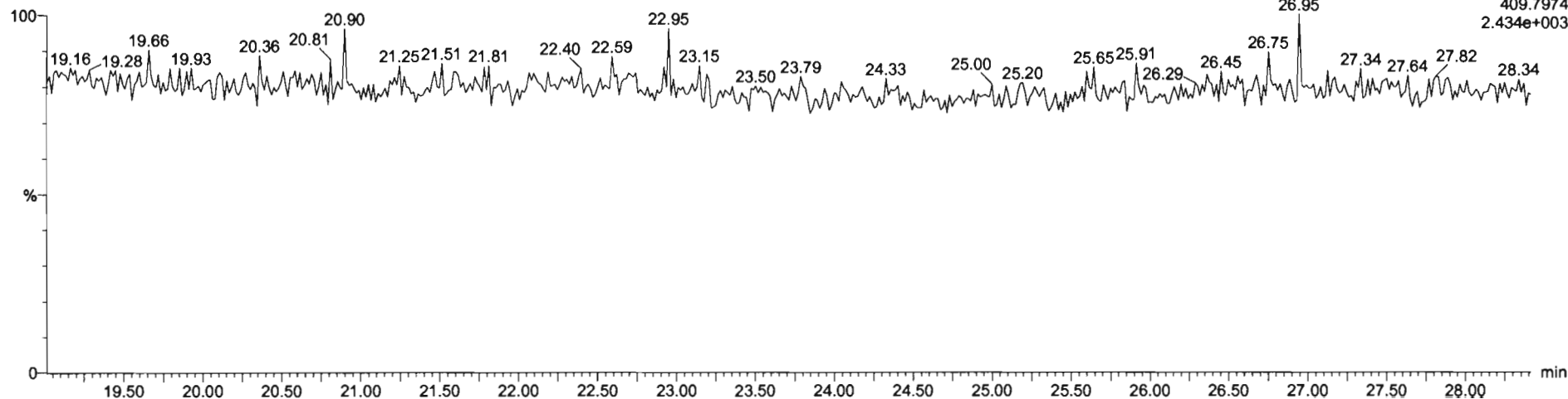


200701R2_2



DPE6

200701R2_2

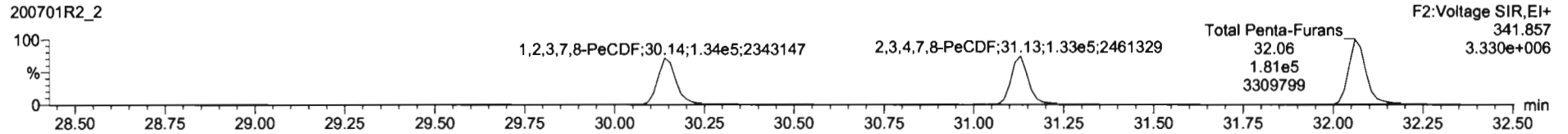
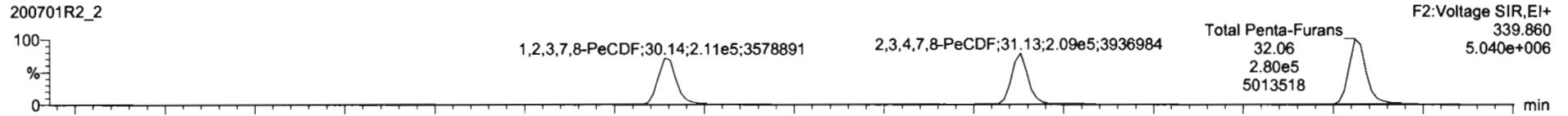


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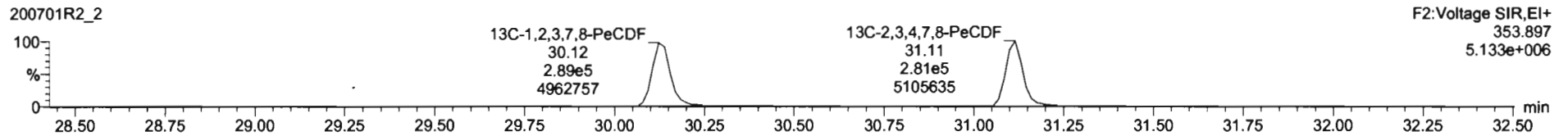
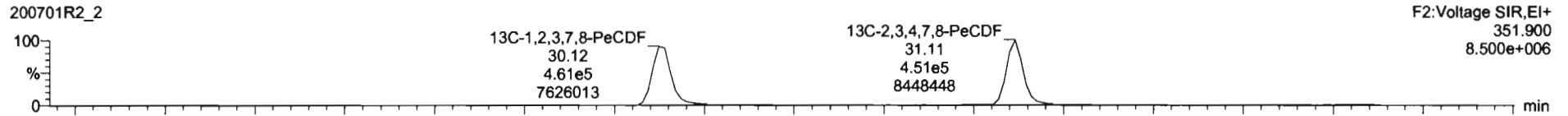
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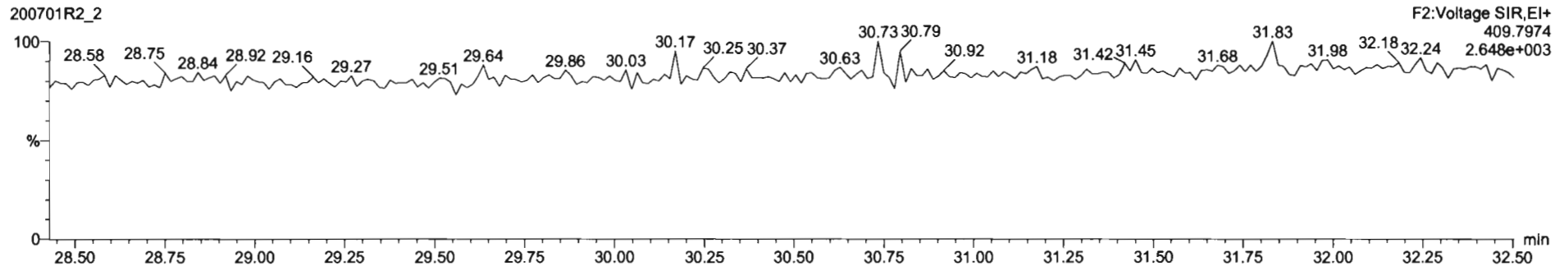
1,2,3,7,8-PeCDF



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



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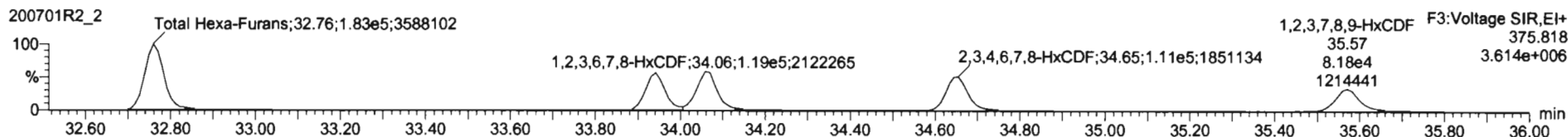
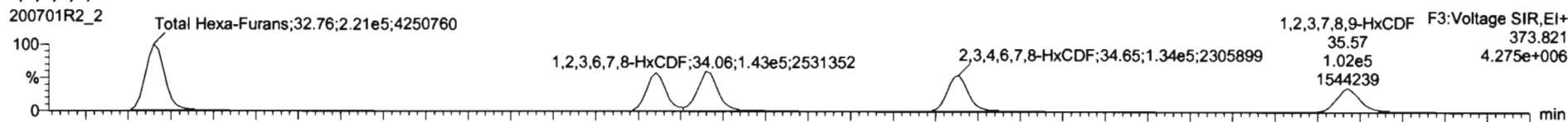


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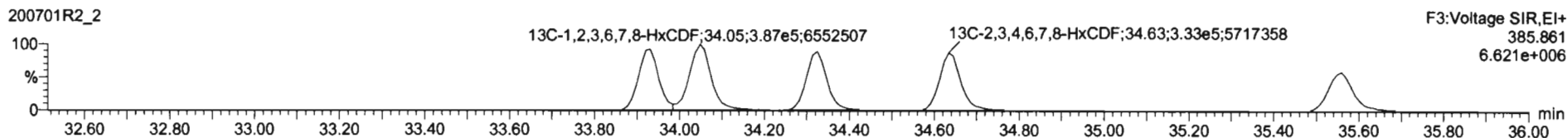
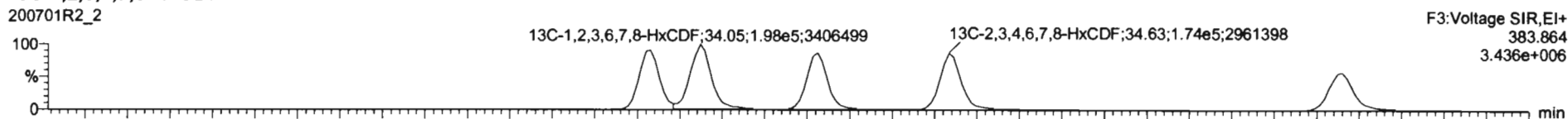
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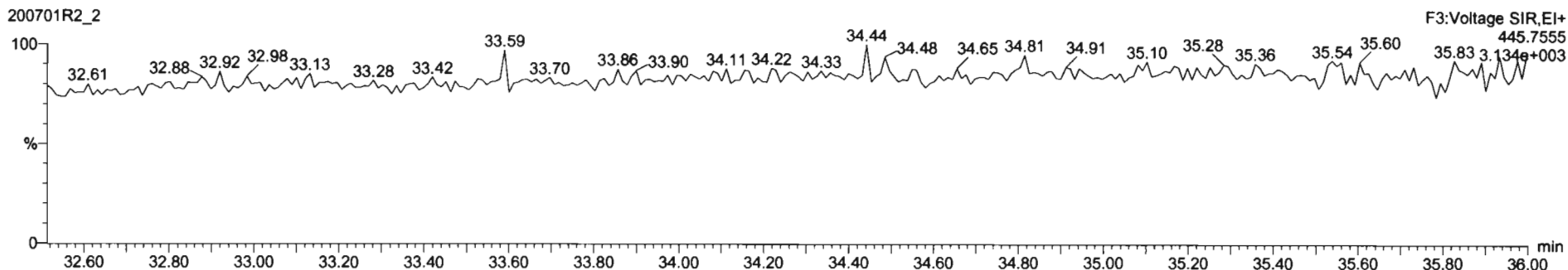
1,2,3,4,7,8-HxCDF



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



DPE3



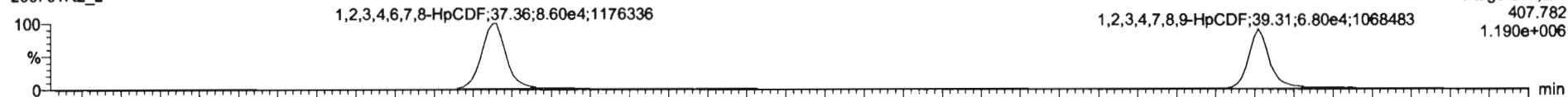
Dataset: U:\VG12.PRO\Results\200701R2\200701R2_2.qld

Last Altered: Thursday, July 02, 2020 10:28:48 Pacific Daylight Time
Printed: Thursday, July 02, 2020 12:33:00 Pacific Daylight Time

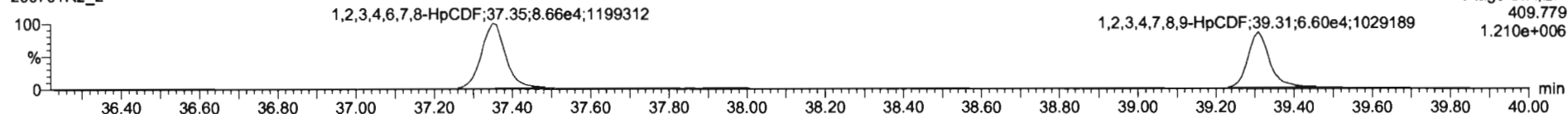
Name: 200701R2_2, Date: 02-Jul-2020, Time: 03:02:02, ID: ST200701R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200701R2_2

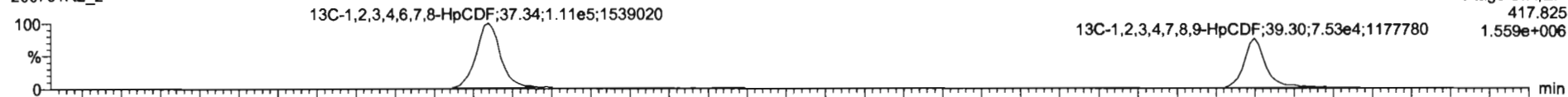


200701R2_2

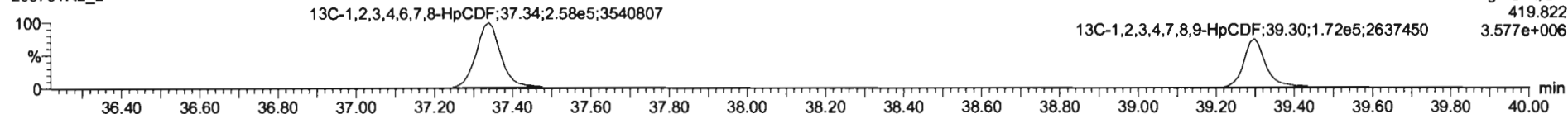


13C-1,2,3,4,6,7,8-HpCDF

200701R2_2

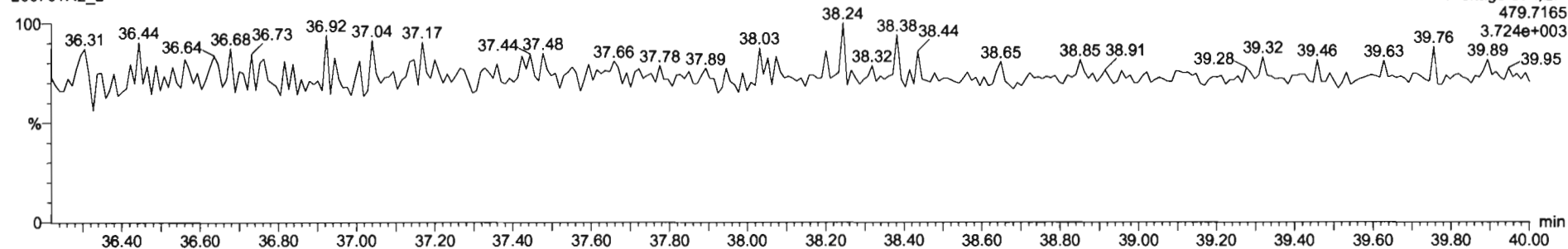


200701R2_2



DPE4

200701R2_2

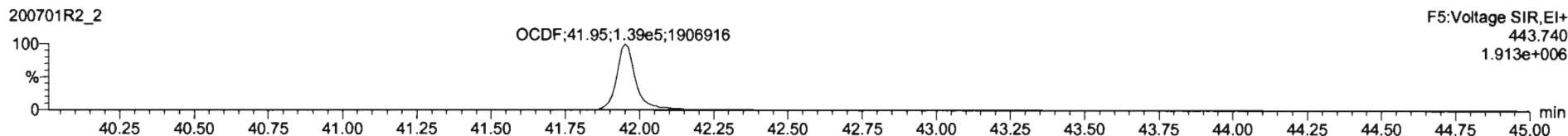
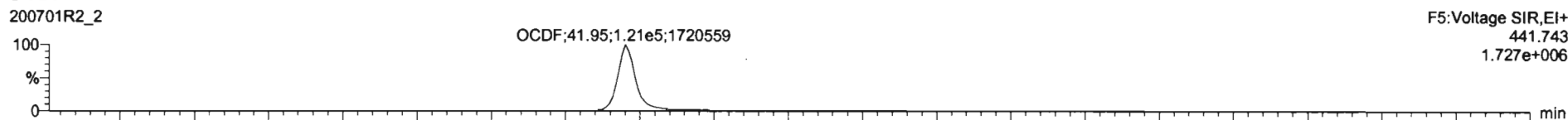


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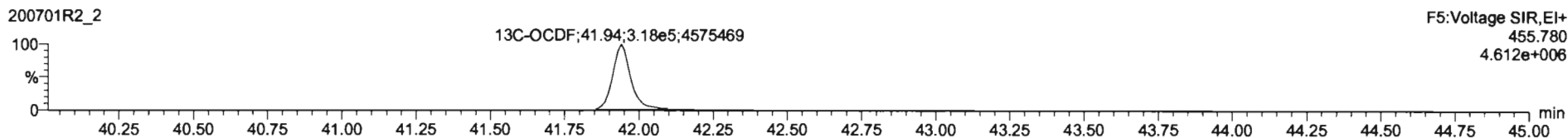
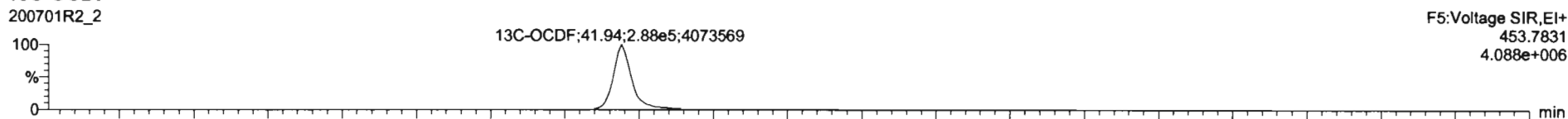
Last Altered: Thursday, July 02, 2020 10:28:48 Pacific Daylight Time
Printed: Thursday, July 02, 2020 12:33:00 Pacific Daylight Time

Name: 200701R2_2, Date: 02-Jul-2020, Time: 03:02:02, ID: ST200701R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

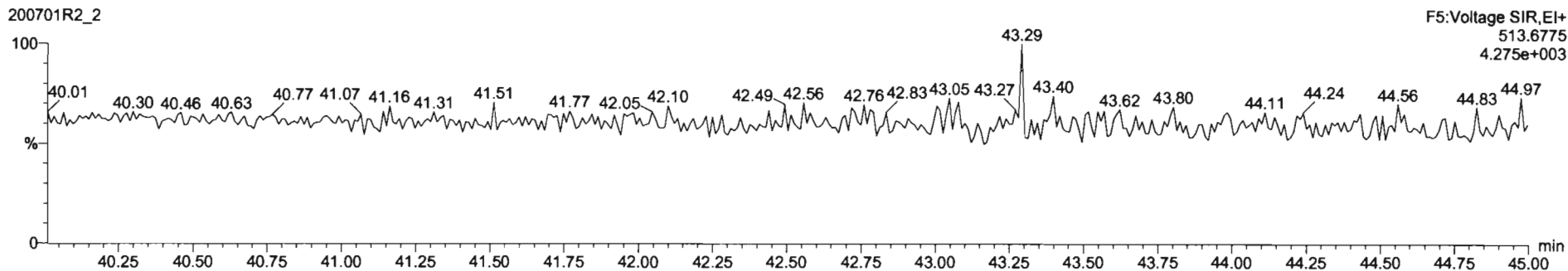
OCDF



13C-OCDF



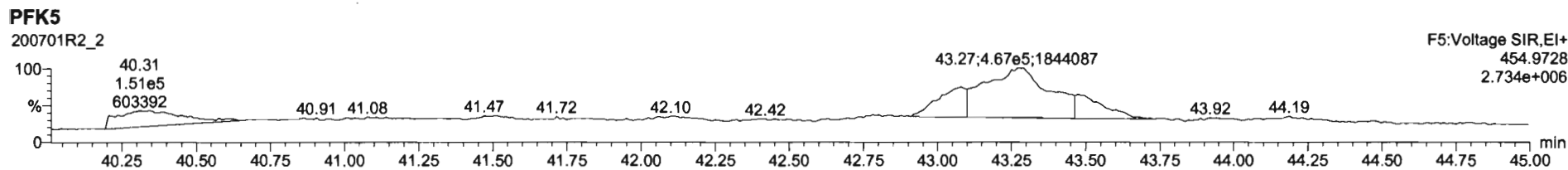
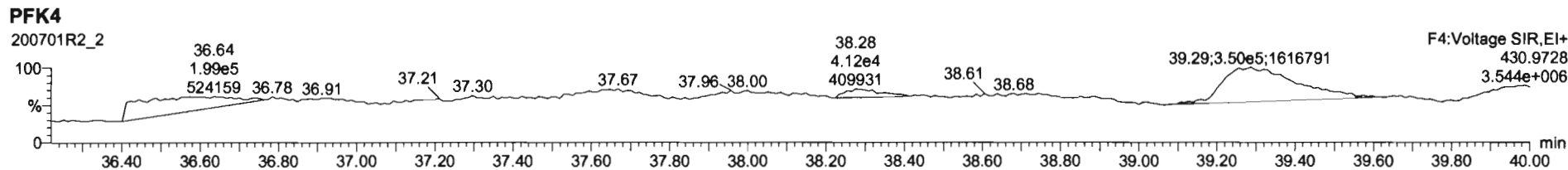
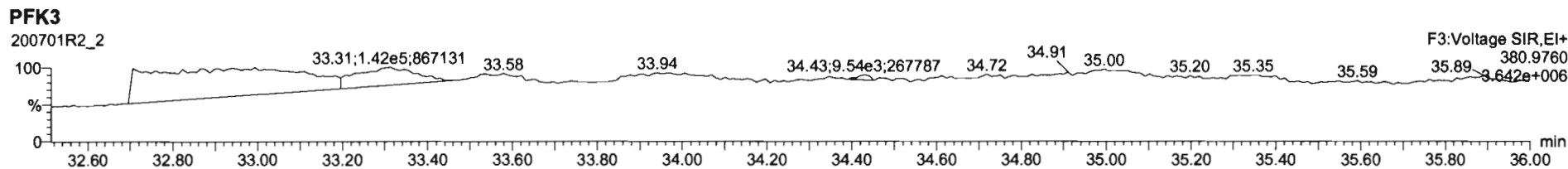
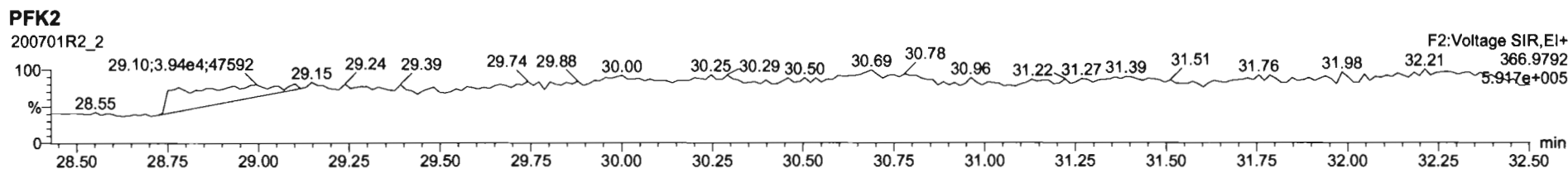
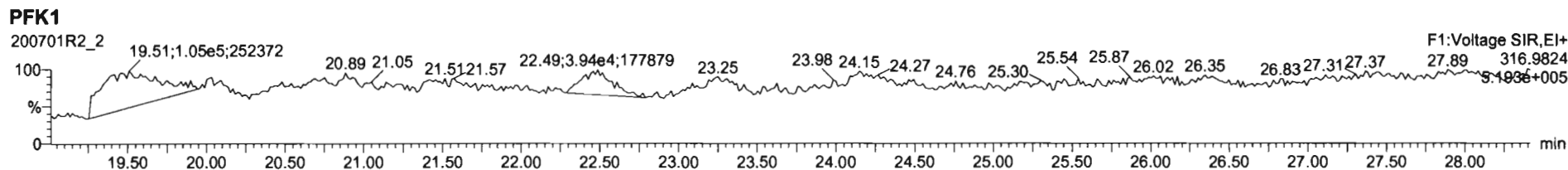
DPE5



Dataset: U:\VG12.PRO\Results\200701R2\200701R2_2.qld

Last Altered: Thursday, July 02, 2020 10:28:48 Pacific Daylight Time
Printed: Thursday, July 02, 2020 12:33:00 Pacific Daylight Time

Name: 200701R2_2, Date: 02-Jul-2020, Time: 03:02:02, ID: ST200701R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



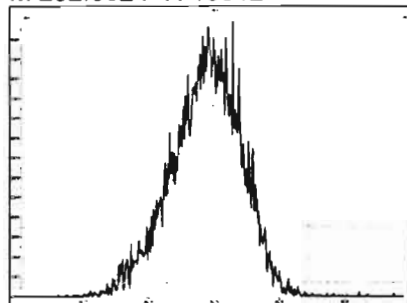
Experiment Calibration Report

MassLynx 4.1 SCN815

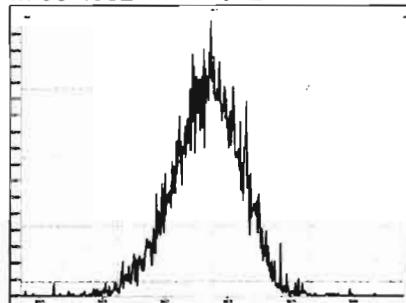
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, July 02, 2020 15:41:58 Pacific Daylight Time

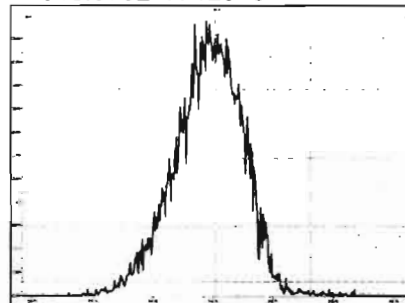
M 292.9824 R 13512



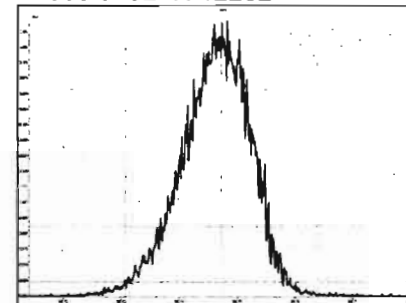
M 304.9824 R 13962



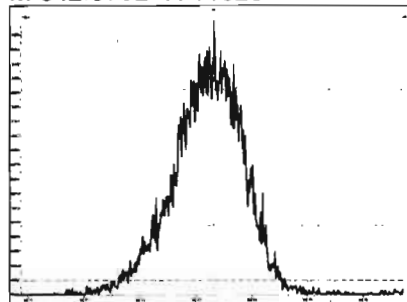
M 318.9792 R 12376



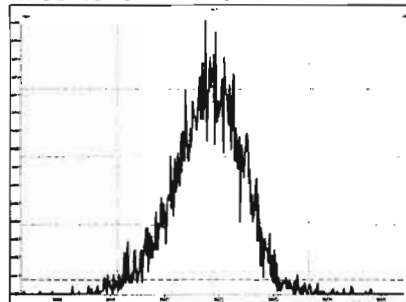
M 330.9792 R 12252



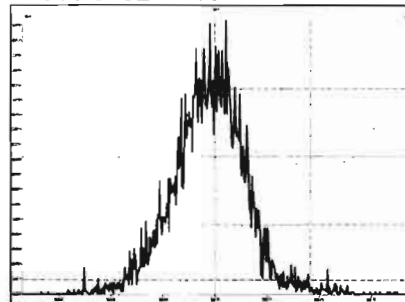
M 342.9792 R 11628



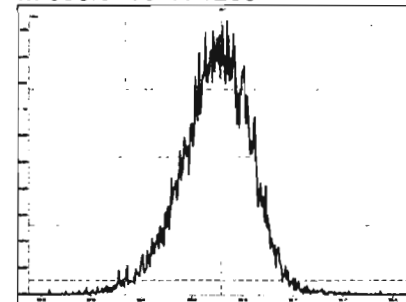
M 354.9792 R 12318



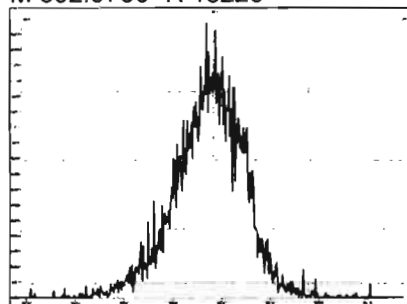
M 366.9792 R 13442



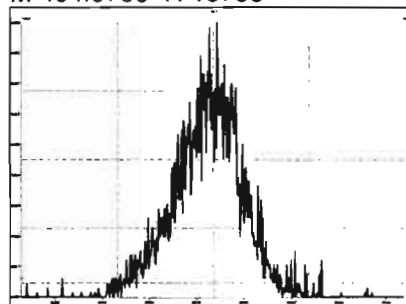
M 380.9760 R 12504



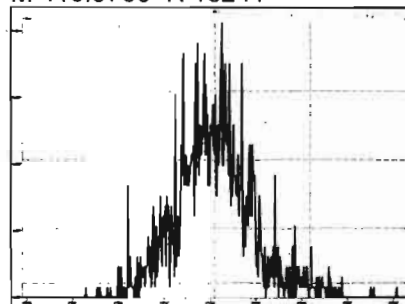
M 392.9760 R 13229



M 404.9760 R 13735



M 416.9760 R 15241



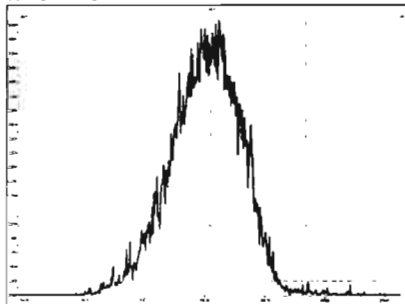
Experiment Calibration Report

MassLynx 4.1 SCN815

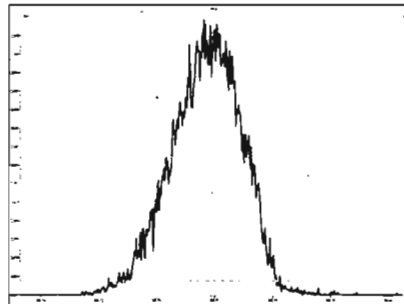
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, July 02, 2020 15:42:23 Pacific Daylight Time

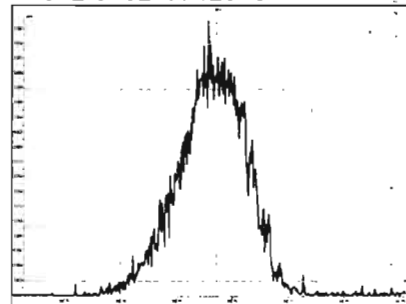
M 318.9792 R 12249



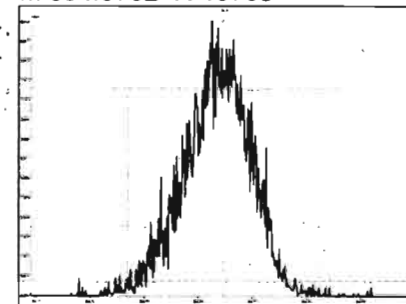
M 330.9792 R 12017



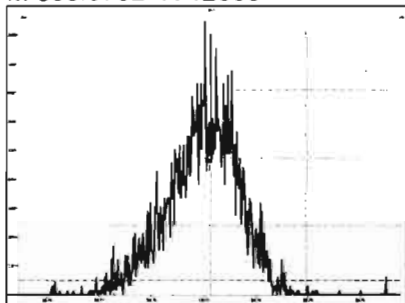
M 342.9792 R 12316



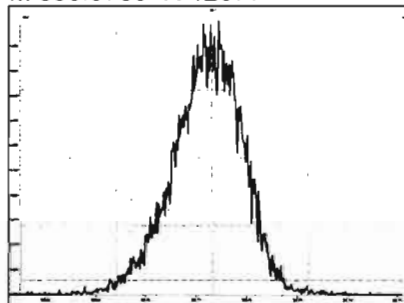
M 354.9792 R 13735



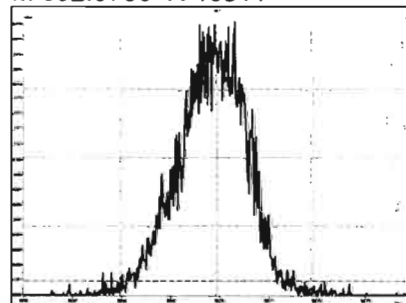
M 366.9792 R 12883



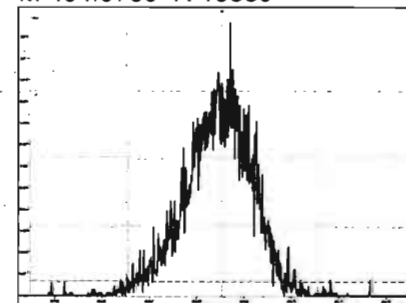
M 380.9760 R 12077



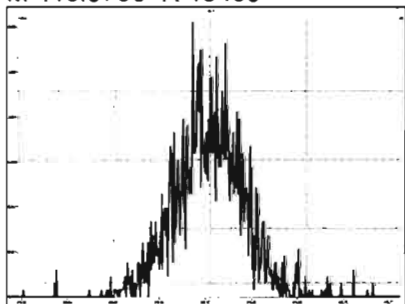
M 392.9760 R 13511



M 404.9760 R 13889



M 416.9760 R 15430



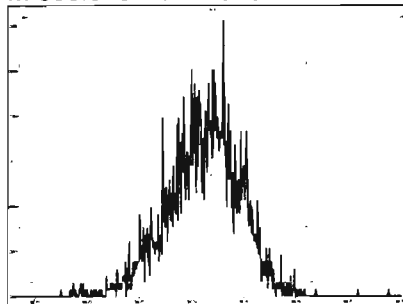
Experiment Calibration Report

MassLynx 4.1 SCN815

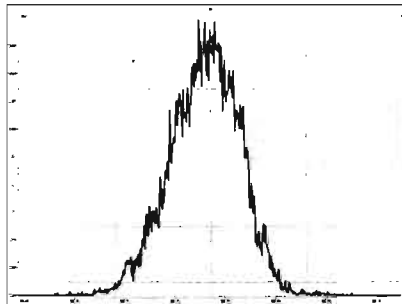
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, July 02, 2020 15:42:44 Pacific Daylight Time

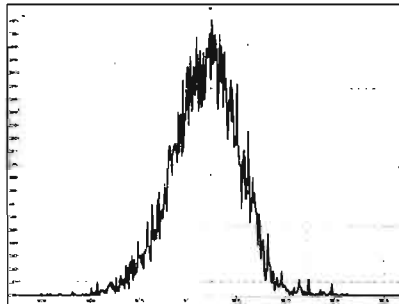
M 366.9792 R 12823



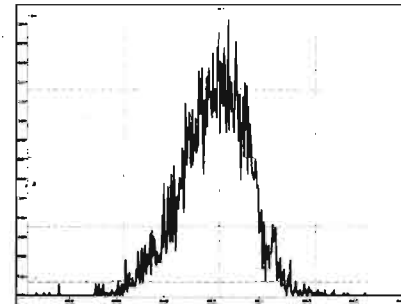
M 380.9760 R 11905



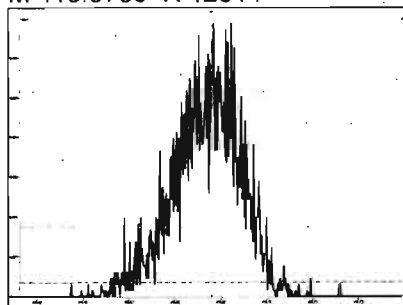
M 392.9760 R 13231



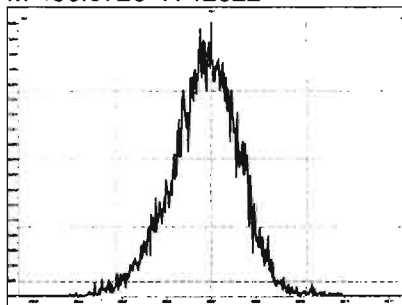
M 404.9760 R 13662



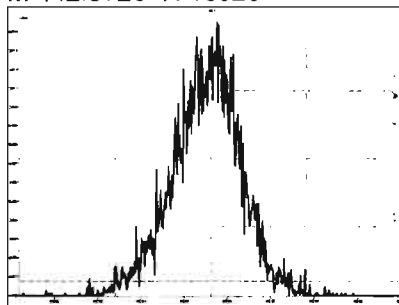
M 416.9760 R 12314



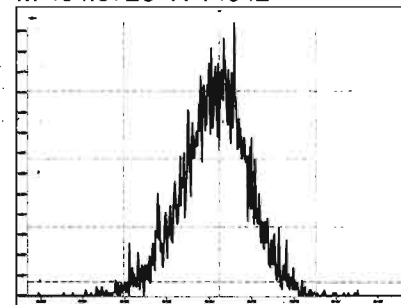
M 430.9728 R 12822



M 442.9728 R 13020



M 454.9728 R 14042



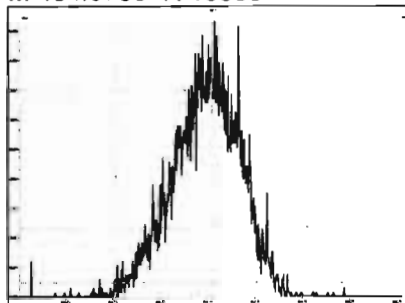
Experiment Calibration Report

MassLynx 4.1 SCN815

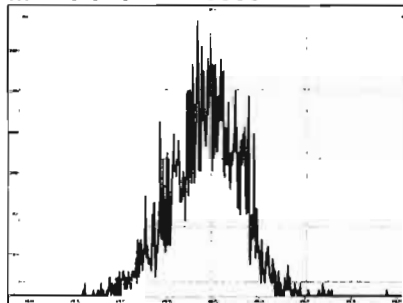
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, July 02, 2020 15:43:20 Pacific Daylight Time

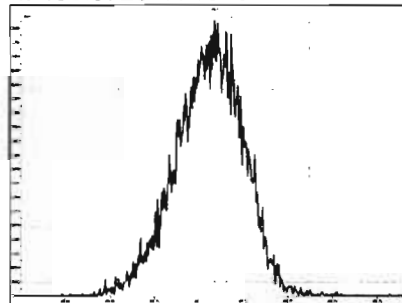
M 404.9760 R 13300



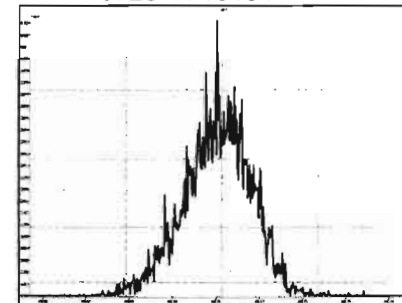
M 416.9760 R 13369



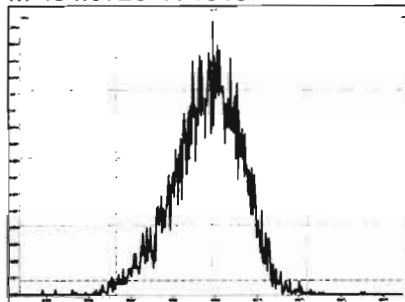
M 430.9728 R 13161



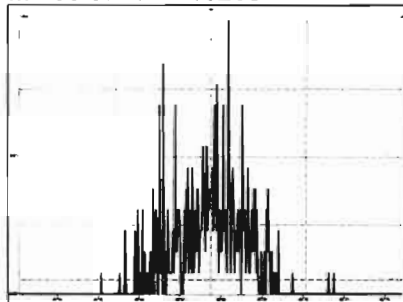
M 442.9728 R 13154



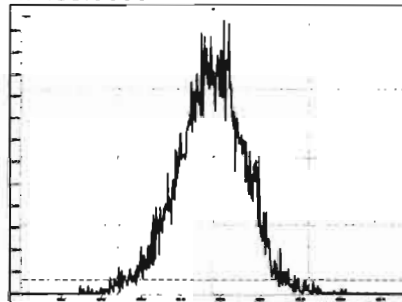
M 454.9728 R 13157



M 466.9728 R 19230



M 480.9696 R 13513



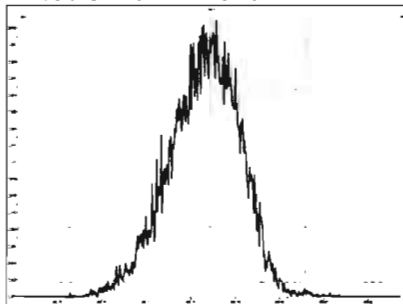
Experiment Calibration Report

MassLynx 4.1 SCN815

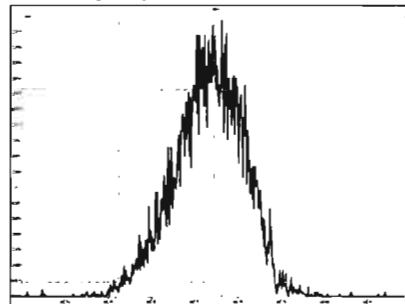
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, July 02, 2020 15:43:41 Pacific Daylight Time

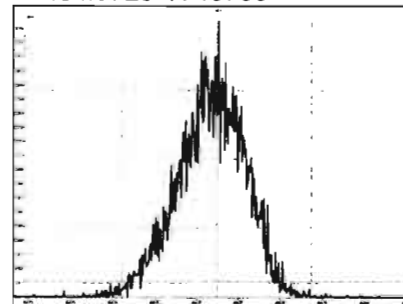
M 430.9728 R 12078



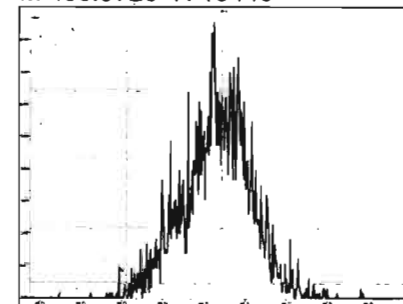
M 442.9728 R 12561



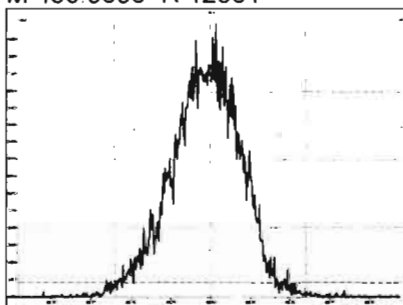
M 454.9728 R 13733



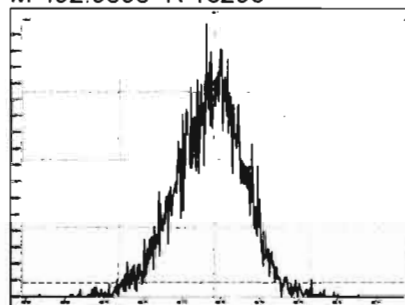
M 466.9728 R 13440



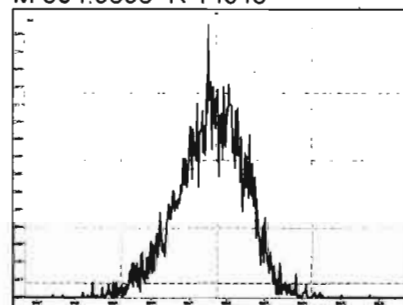
M 480.9696 R 12561



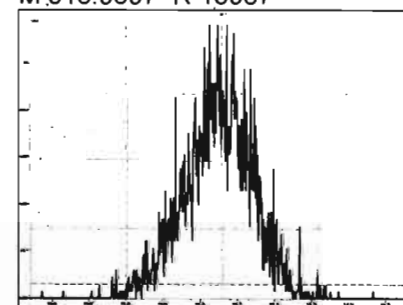
M 492.9696 R 13298



M 504.9696 R 14043



M 516.9697 R 13967

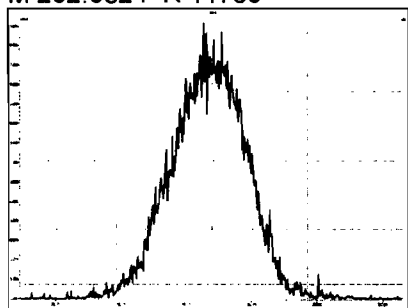


Resolution Check Report

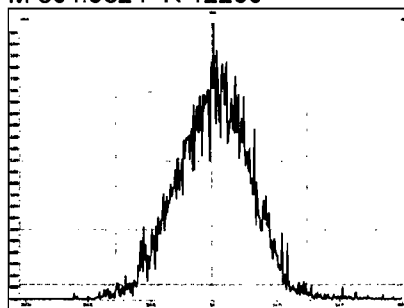
MassLynx 4.1 SCN815

Printed: Monday, July 06, 2020 00:54:10 Pacific Daylight Time

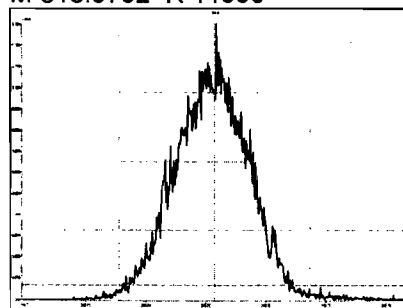
M 292.9824 R 11769



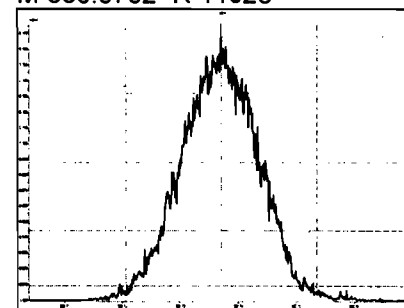
M 304.9824 R 12290



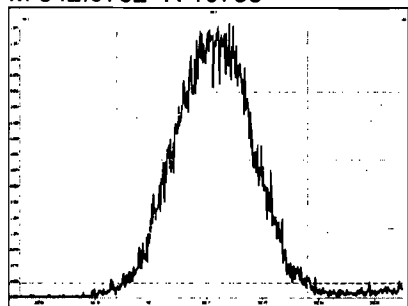
M 318.9792 R 11990



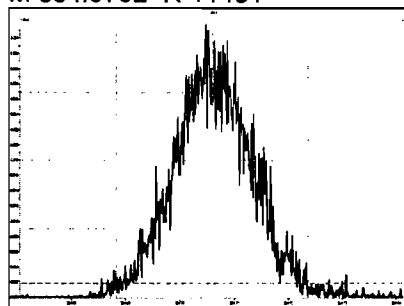
M 330.9792 R 11023



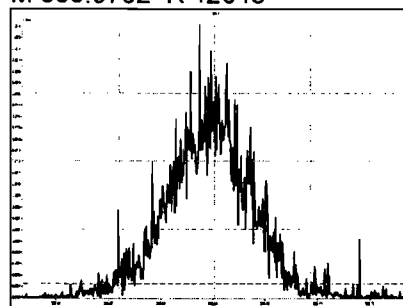
M 342.9792 R 10753



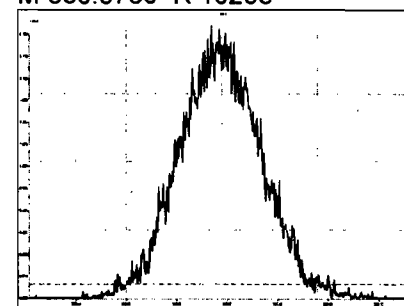
M 354.9792 R 11451



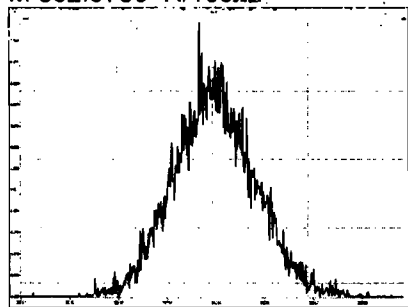
M 366.9792 R 12048



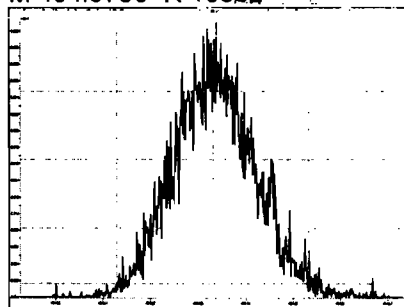
M 380.9760 R 10298



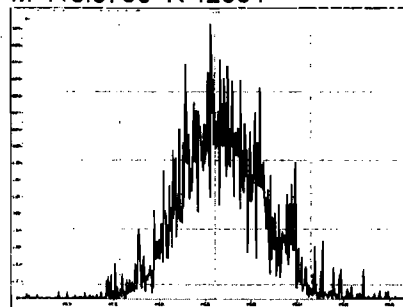
M 392.9760 R 10822



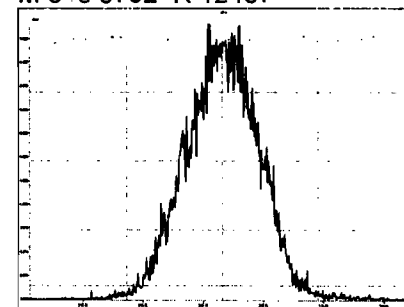
M 404.9760 R 10882



M 416.9760 R 12934

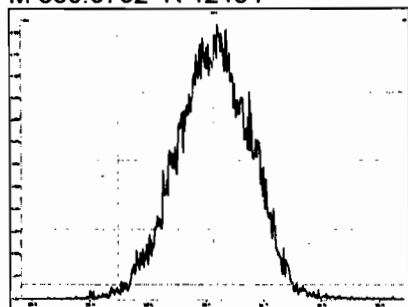


M 318.9792 R 12437

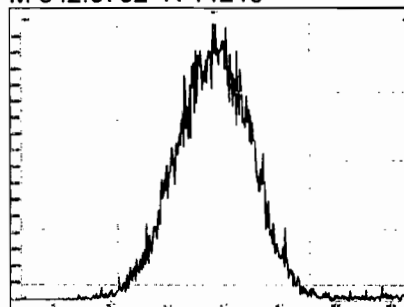


Printed: Monday, July 06, 2020 00:54:10 Pacific Daylight Time

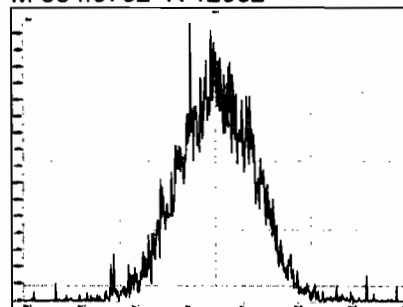
M 330.9792 R 12154



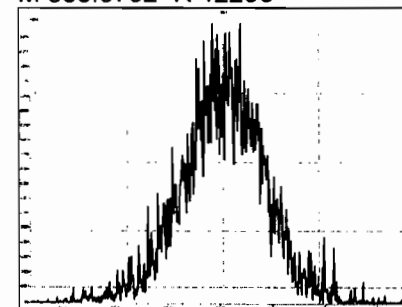
M 342.9792 R 11210



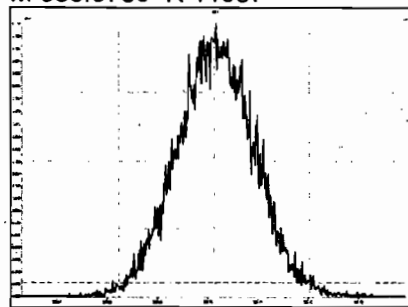
M 354.9792 R 12982



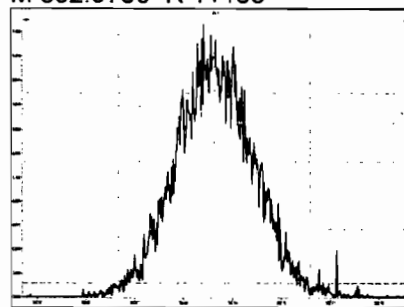
M 366.9792 R 12293



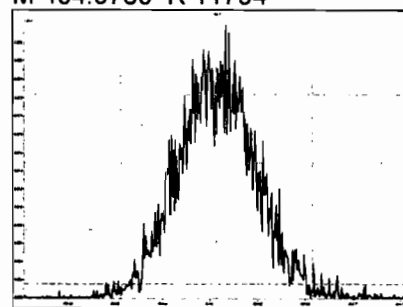
M 380.9760 R 11037



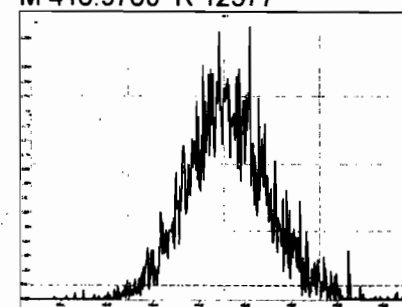
M 392.9760 R 11163



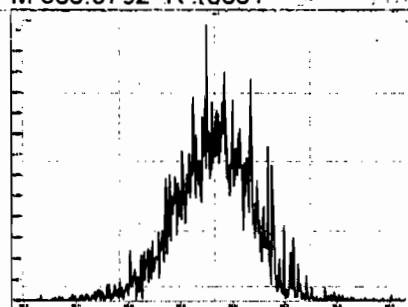
M 404.9760 R 11794



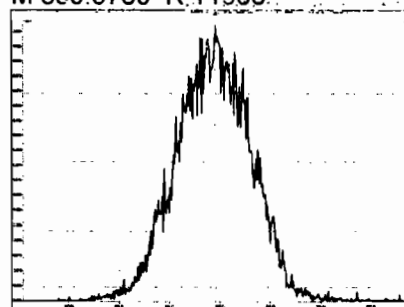
M 416.9760 R 12577



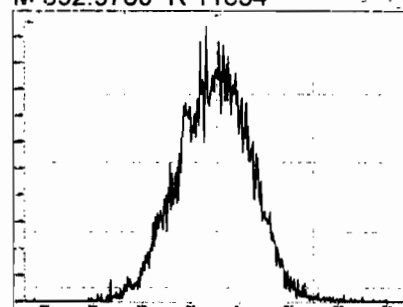
M 366.9792 R 13661



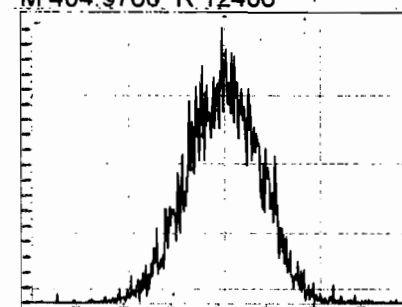
M 380.9760 R 11936



M 392.9760 R 11854



M 404.9760 R 12406

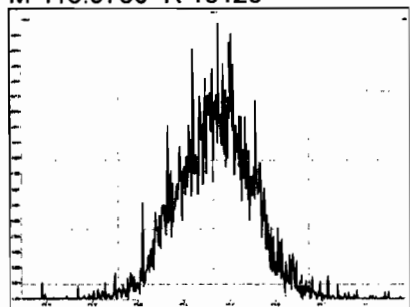


Resolution Check Report

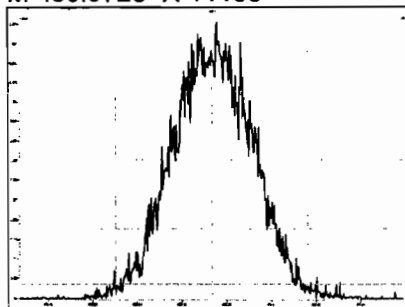
MassLynx 4.1 SCN815

Printed: Monday, July 06, 2020 00:54:10 Pacific Daylight Time

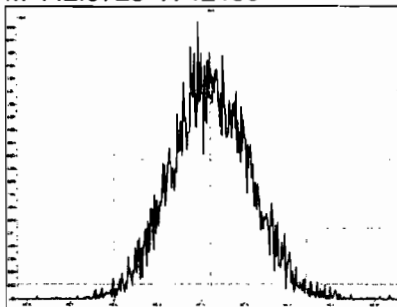
M 416.9760 R 13123



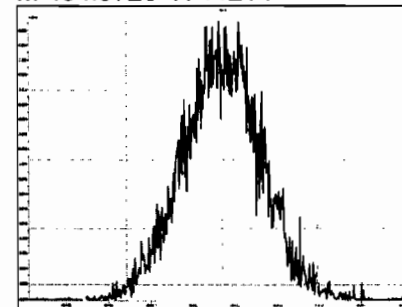
M 430.9728 R 11168



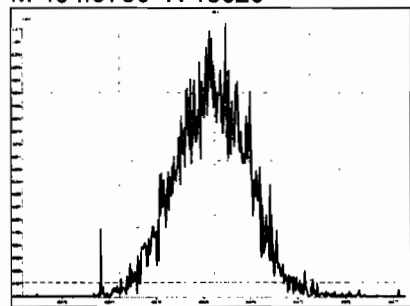
M 442.9728 R 12165



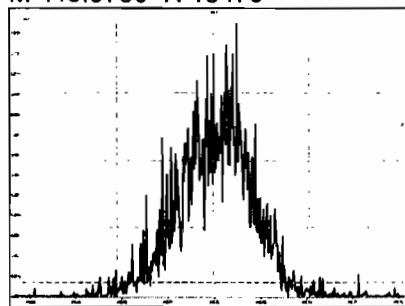
M 454.9728 R 11214



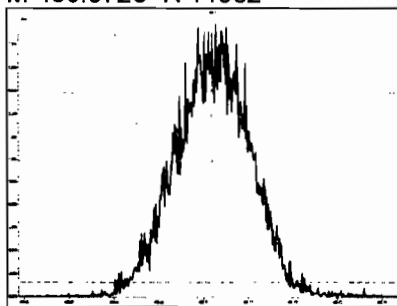
M 404.9760 R 13020



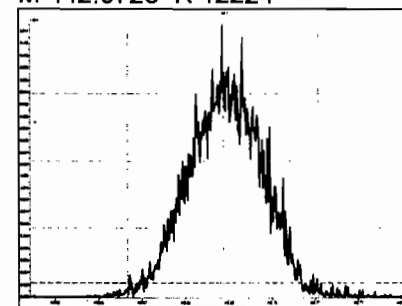
M 416.9760 R 13479



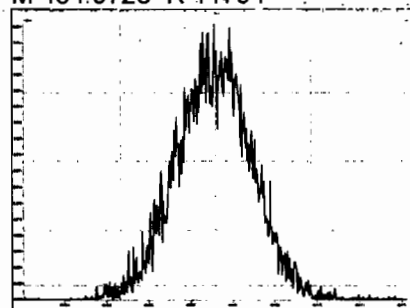
M 430.9728 R 11932



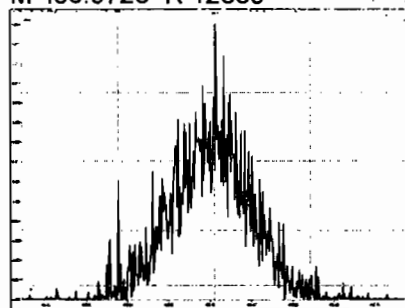
M 442.9728 R 12224



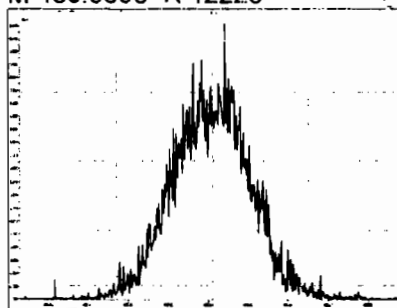
M 454.9728 R 11794



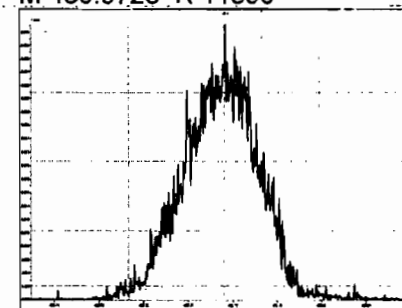
M 466.9728 R 12889



M 480.9696 R 12225



M 430.9728 R 11850



Dataset: U:\VG12.PRO\Results\200705R4\200705R4-2.qld

Last Altered: Monday, July 06, 2020 09:02:10 Pacific Daylight Time
Printed: Monday, July 06, 2020 09:02:28 Pacific Daylight Time

GRB 07/06/2020
HN 07/06/2020

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: 200705R4_2, Date: 06-Jul-2020, Time: 02:25:07, ID: ST200705R4_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	8.74e4	9.73e5	0.77	NO	0.888	26.50	26.48	NO	1.001	1.001	10.111	101	NO
2	2 1,2,3,7,8-PeCDD	2.90e5	6.67e5	0.61	NO	0.908	31.47	31.47	NO	1.001	1.000	47.838	95.7	NO
3	3 1,2,3,4,7,8-HxCDD	2.26e5	4.48e5	1.25	NO	1.03	34.86	34.86	NO	1.000	1.000	48.919	97.8	NO
4	4 1,2,3,6,7,8-HxCDD	2.54e5	5.63e5	1.23	NO	0.892	34.95	34.96	NO	1.000	1.000	50.529	101	NO
5	5 1,2,3,7,8,9-HxCDD	2.24e5	5.13e5	1.22	NO	0.887	35.28	35.25	NO	1.001	1.000	49.295	98.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.56e5	3.49e5	1.03	NO	0.864	38.82	38.82	NO	1.000	1.000	51.537	103	NO
7	7 OCDD	2.82e5	6.07e5	0.87	NO	0.914	41.83	41.84	NO	1.000	1.000	101.72	102	NO
8	8 2,3,7,8-TCDF	9.49e4	1.28e6	0.75	NO	0.751	25.60	25.60	NO	1.001	1.001	9.8728	98.7	NO
9	9 1,2,3,7,8-PeCDF	4.39e5	9.83e5	1.53	NO	0.893	30.19	30.18	NO	1.001	1.001	49.971	99.9	NO
10	10 2,3,4,7,8-PeCDF	4.34e5	9.47e5	1.56	NO	0.935	31.16	31.16	NO	1.001	1.000	49.037	98.1	NO
11	11 1,2,3,4,7,8-HxCDF	2.61e5	5.88e5	1.20	NO	0.884	33.97	33.98	NO	1.000	1.000	50.243	100	NO
12	12 1,2,3,6,7,8-HxCDF	2.90e5	6.84e5	1.20	NO	0.889	34.10	34.10	NO	1.000	1.000	47.734	95.5	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.91e5	1.20	NO	0.934	34.70	34.70	NO	1.001	1.001	49.367	98.7	NO
14	14 1,2,3,7,8,9-HxCDF	2.08e5	4.75e5	1.16	NO	0.871	35.62	35.62	NO	1.001	1.001	50.221	100	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.83e5	4.18e5	0.99	NO	0.873	37.43	37.41	NO	1.001	1.001	50.238	100	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.36e5	2.57e5	1.00	NO	1.01	39.36	39.37	NO	1.000	1.000	52.307	105	NO
17	17 OCDF	2.75e5	6.90e5	0.87	NO	0.806	42.01	42.02	NO	1.000	1.000	98.942	98.9	NO
18	18 13C-2,3,7,8-TCDD	9.73e5	8.17e5	0.77	NO	1.16	26.46	26.47	NO	1.025	1.026	102.93	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.67e5	8.17e5	0.63	NO	0.849	31.48	31.45	NO	1.219	1.219	96.185	96.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.48e5	5.72e5	1.27	NO	0.779	34.84	34.85	NO	1.014	1.014	100.48	100	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.63e5	5.72e5	1.27	NO	1.02	34.94	34.95	NO	1.017	1.017	96.904	96.9	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.13e5	5.72e5	1.24	NO	0.903	35.25	35.24	NO	1.026	1.025	99.300	99.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.49e5	5.72e5	1.02	NO	0.689	38.80	38.81	NO	1.129	1.129	88.641	88.6	NO
24	24 13C-OCDD	6.07e5	5.72e5	0.88	NO	0.652	41.80	41.83	NO	1.216	1.217	162.62	81.3	NO
25	25 13C-2,3,7,8-TCDF	1.28e6	1.19e6	0.78	NO	1.06	25.57	25.57	NO	0.991	0.991	101.20	101	NO
26	26 13C-1,2,3,7,8-PeCDF	9.83e5	1.19e6	1.59	NO	0.838	30.19	30.17	NO	1.170	1.169	98.239	98.2	NO
27	27 13C-2,3,4,7,8-PeCDF	9.47e5	1.19e6	1.63	NO	0.817	31.17	31.15	NO	1.207	1.207	97.075	97.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.88e5	5.72e5	0.50	NO	1.01	33.98	33.97	NO	0.989	0.989	102.02	102	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.84e5	5.72e5	0.50	NO	1.17	34.09	34.09	NO	0.992	0.992	102.47	102	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.91e5	5.72e5	0.51	NO	1.02	34.67	34.68	NO	1.009	1.009	101.10	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.75e5	5.72e5	0.50	NO	0.860	35.60	35.60	NO	1.036	1.036	96.679	96.7	NO

Dataset: U:\VG12.PRO\Results\200705R4\200705R4-2.qld

Last Altered: Monday, July 06, 2020 09:02:10 Pacific Daylight Time

Printed: Monday, July 06, 2020 09:02:28 Pacific Daylight Time

Name: 200705R4_2, Date: 06-Jul-2020, Time: 02:25:07, ID: ST200705R4_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Final.RT	RT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	4.18e5	5.72e5	0.44	NO	0.774	37.38	37.39	NO	1.088	1.088	94.325	94.3	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.57e5	5.72e5	0.44	NO	0.521	39.36	39.36	NO	1.145	1.145	86.099	86.1	NO
34	13C-OCDF	6.90e5	5.72e5	0.84	NO	0.746	41.99	42.01	NO	1.222	1.223	161.84	80.9	NO
35	37Cl-2,3,7,8-TCDD	8.98e4	8.17e5			1.04	26.48	26.48	NO	1.026	1.026	10.592	106	NO
36	13C-1,2,3,4-TCDD	8.17e5	8.17e5	0.79	NO	1.00	25.74	25.81	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.19e6	1.19e6	0.78	NO	1.00	24.03	24.12	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	5.72e5	5.72e5	0.50	NO	1.00	34.29	34.37	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Monday, July 06, 2020 08:58:24 Pacific Daylight Time

Printed: Monday, July 06, 2020 08:58:30 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

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

Name	ID	Acq.Date	Acq.Time
200705R4_1	SOLVENT BLANK	06-Jul-20	01:39:41
200705R4_2	ST200705R4_1 1613 CS3 19L2305	06-Jul-20	02:25:07
200705R4_3	SOLVENT BLANK	06-Jul-20	03:10:34
200705R4_4	2000855-15RE3 PDI-076SC-A-06-07-191013 ...	06-Jul-20	03:56:02
200705R4_5	2000855-15RE3@40X PDI-076SC-A-06-07-19...	06-Jul-20	04:41:28
200705R4_6	2001102-11@75X SO-B02-2.0-3.0 3.04	06-Jul-20	05:27:01
200705R4_7	SOLVENT BLANK	06-Jul-20	06:21:20

Dataset: Untitled

Last Altered: Monday, July 06, 2020 09:02:57 Pacific Daylight Time

Printed: Monday, July 06, 2020 09:03:10 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: 200705R4_2, Date: 06-Jul-2020, Time: 02:25:07, ID: ST200705R4_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.46
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)	31.86
5	1,2,4,6,7,9-HxCDD (First)	33.34
6	1,2,3,7,8,9-HxCDD (Last)	35.25
7	1,2,3,4,6,7,9-HpCDD (First)	37.81
8	1,2,3,4,6,7,8-HpCDD (Last)	38.82
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)	32.11
13	1,2,3,4,6,8-HxCDF (First)	32.80
14	1,2,3,7,8,9-HxCDF (Last)	35.62
15	1,2,3,4,6,7,8-HpCDF (First)	37.41
16	1,2,3,4,7,8,9-HpCDF (Last)	39.37

Dataset: Untitled

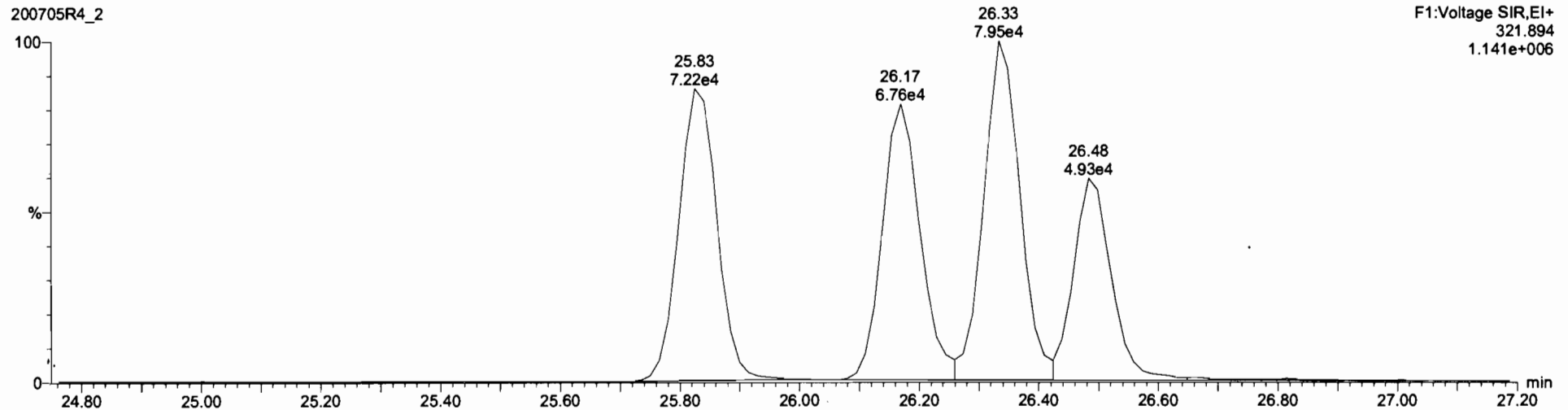
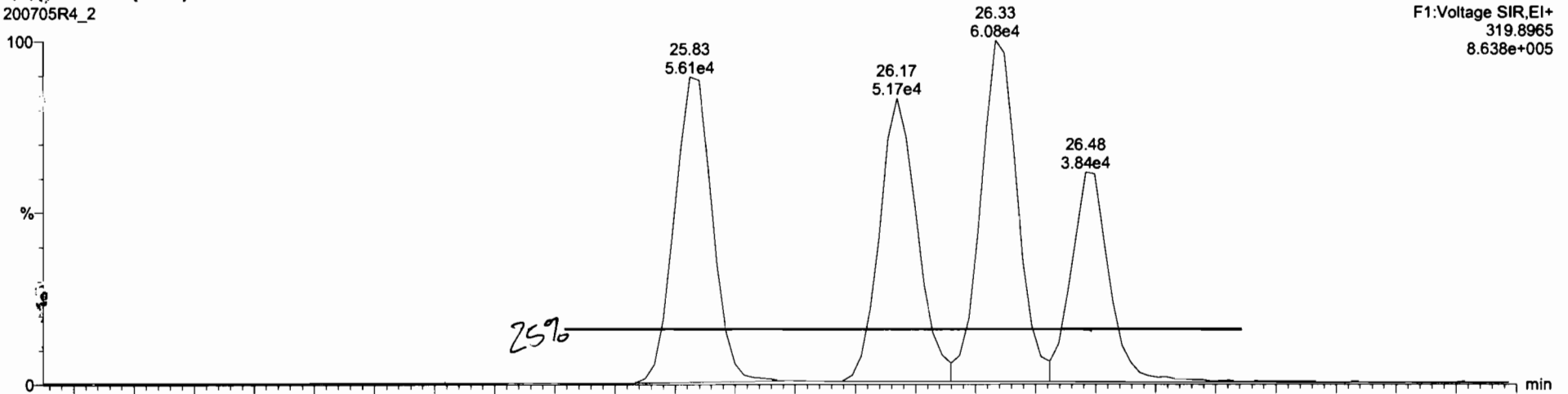
Last Altered: Monday, July 06, 2020 09:02:57 Pacific Daylight Time
Printed: Monday, July 06, 2020 09:03:10 Pacific Daylight Time

GRB 07/06/2020

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: 200705R4_2, Date: 06-Jul-2020, Time: 02:25:07, ID: ST200705R4_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200705R4_2



Dataset: Untitled

Last Altered: Monday, July 06, 2020 08:58:36 Pacific Daylight Time

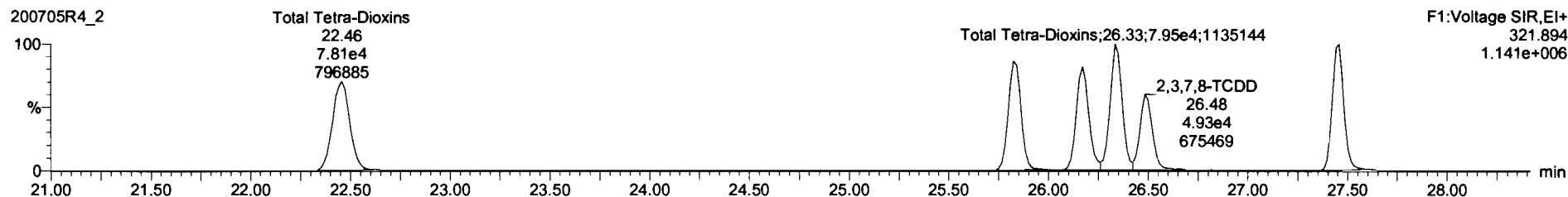
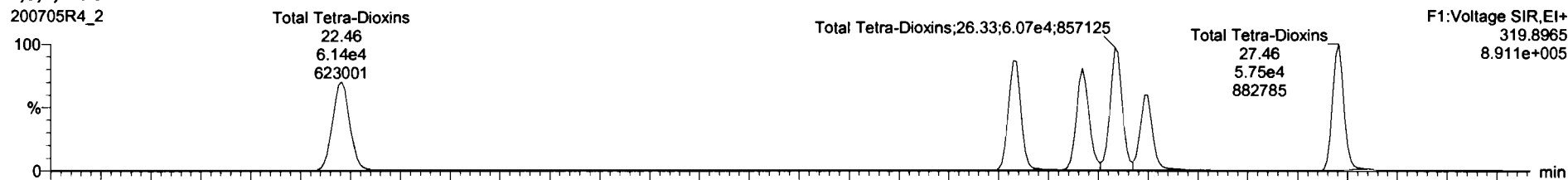
Printed: Monday, July 06, 2020 08:59:02 Pacific Daylight Time

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

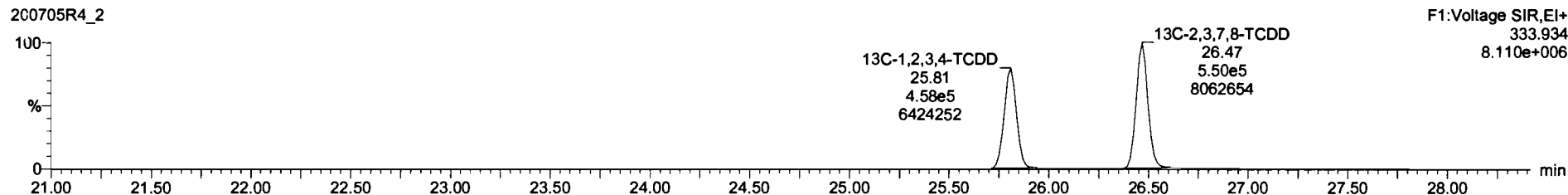
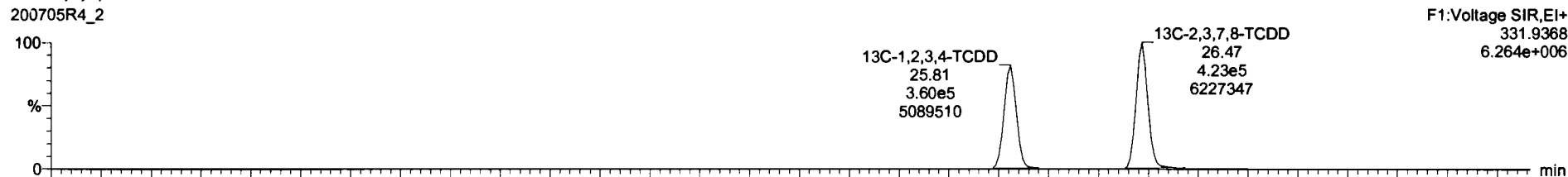
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200705R4_2, Date: 06-Jul-2020, Time: 02:25:07, ID: ST200705R4_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



Dataset: Untitled

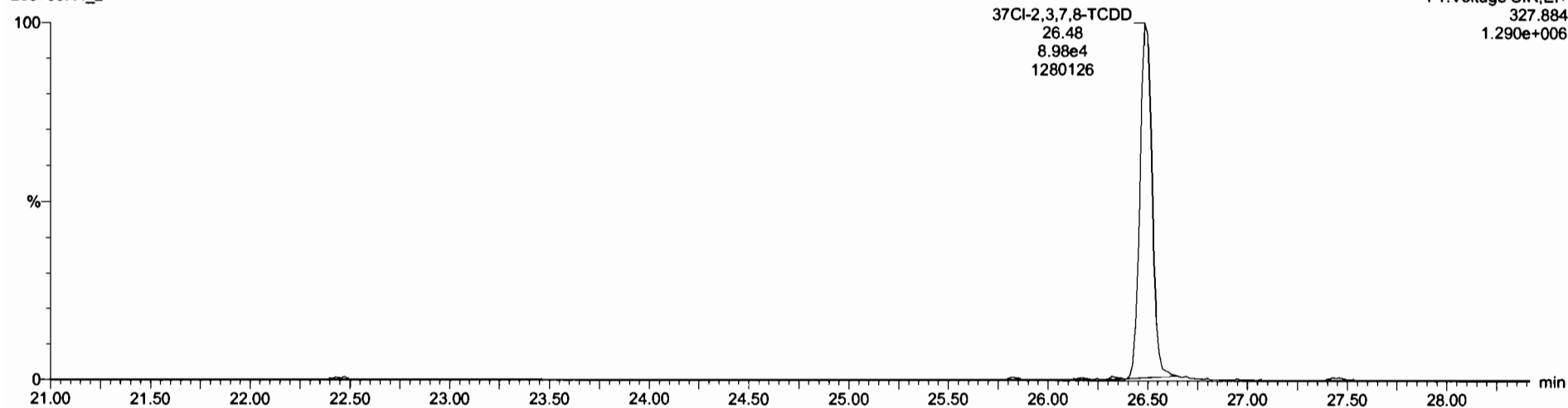
Last Altered: Monday, July 06, 2020 08:58:36 Pacific Daylight Time

Printed: Monday, July 06, 2020 08:59:02 Pacific Daylight Time

Name: 200705R4_2, Date: 06-Jul-2020, Time: 02:25:07, ID: ST200705R4_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

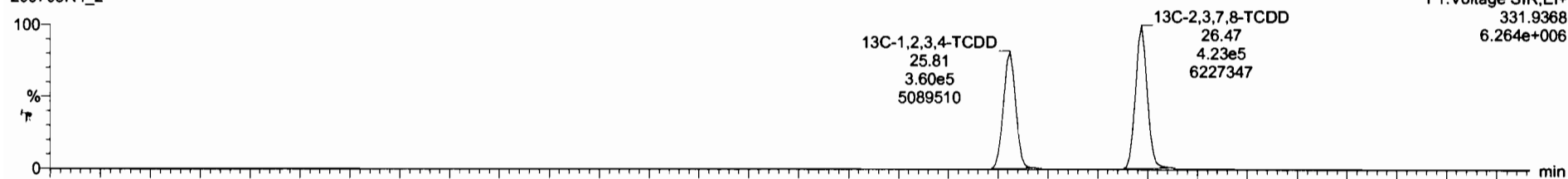
37Cl-2,3,7,8-TCDD

200705R4_2

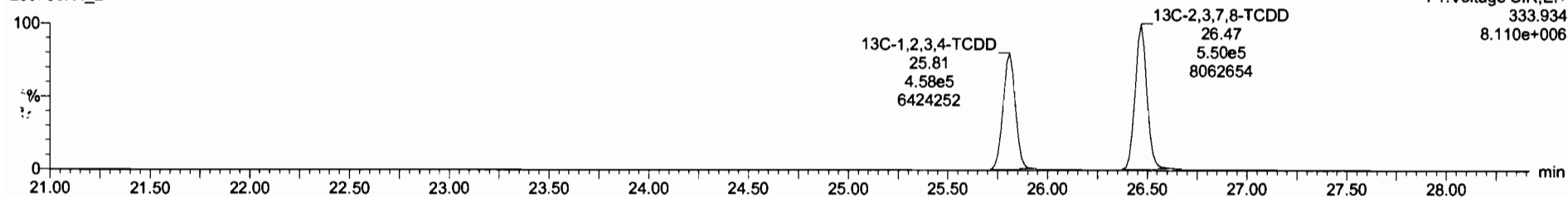


13C-1,2,3,4-TCDD

200705R4_2



200705R4_2



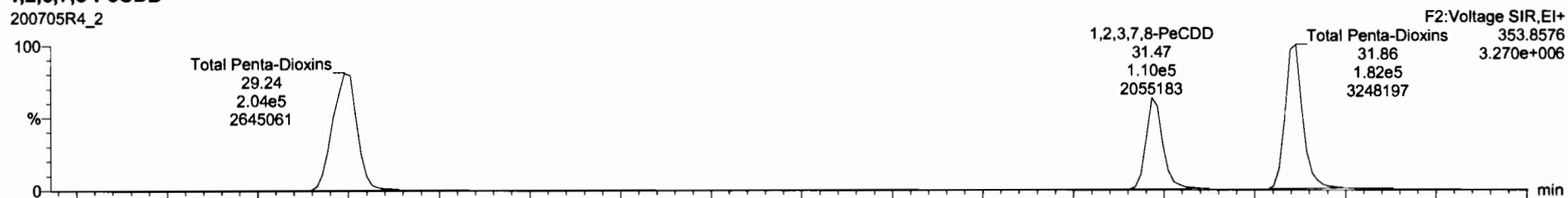
Dataset: Untitled

Last Altered: Monday, July 06, 2020 08:58:36 Pacific Daylight Time
Printed: Monday, July 06, 2020 08:59:02 Pacific Daylight Time

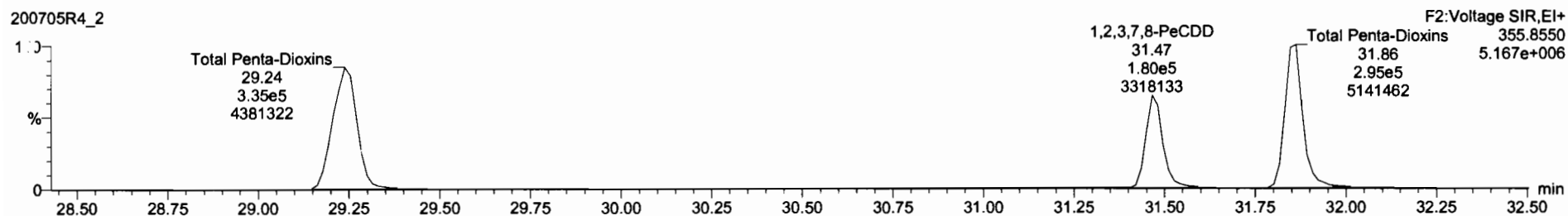
Name: 200705R4_2, Date: 06-Jul-2020, Time: 02:25:07, ID: ST200705R4_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200705R4_2

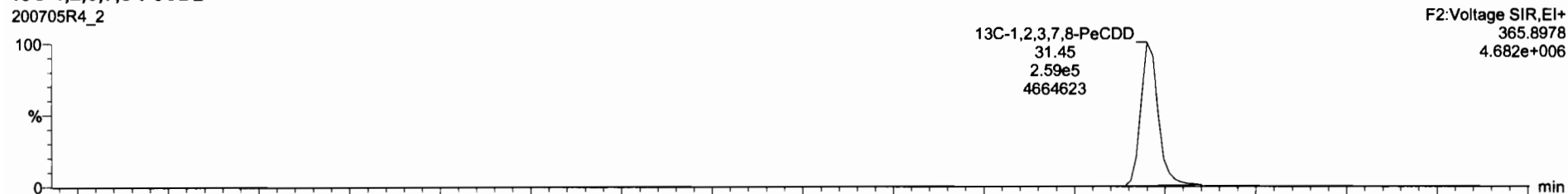


200705R4_2

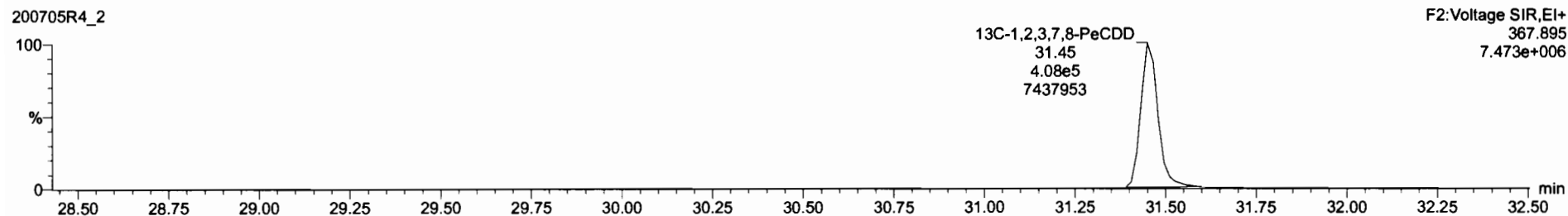


13C-1,2,3,7,8-PeCDD

200705R4_2



200705R4_2



Dataset: Untitled

Last Altered: Monday, July 06, 2020 08:58:36 Pacific Daylight Time

Printed: Monday, July 06, 2020 08:59:02 Pacific Daylight Time

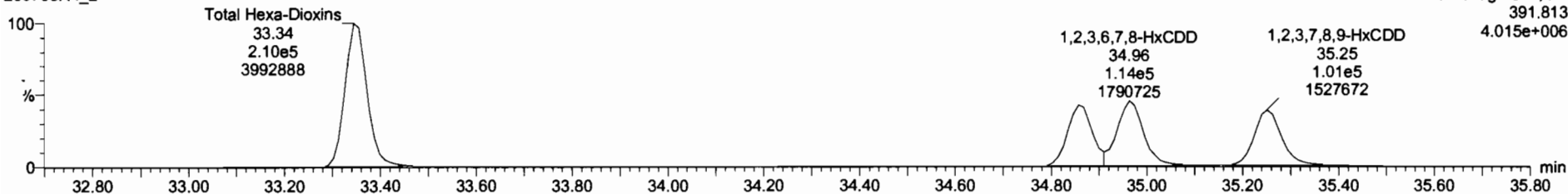
Name: 200705R4_2, Date: 06-Jul-2020, Time: 02:25:07, ID: ST200705R4_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200705R4_2

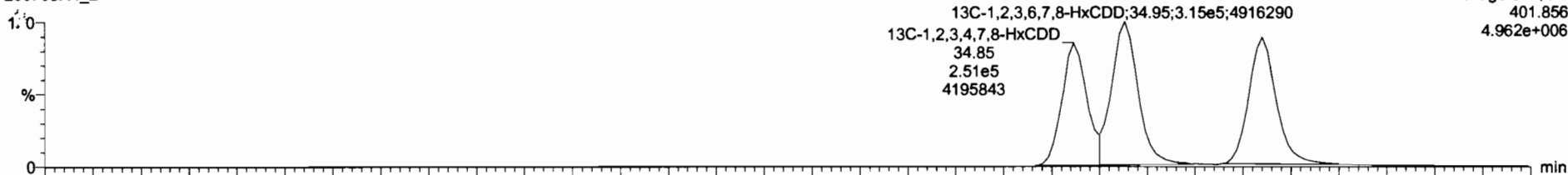


200705R4_2

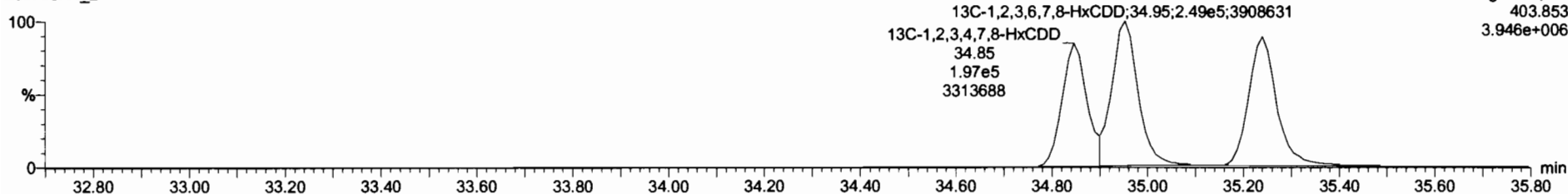


13C-1,2,3,4,7,8-HxCDD

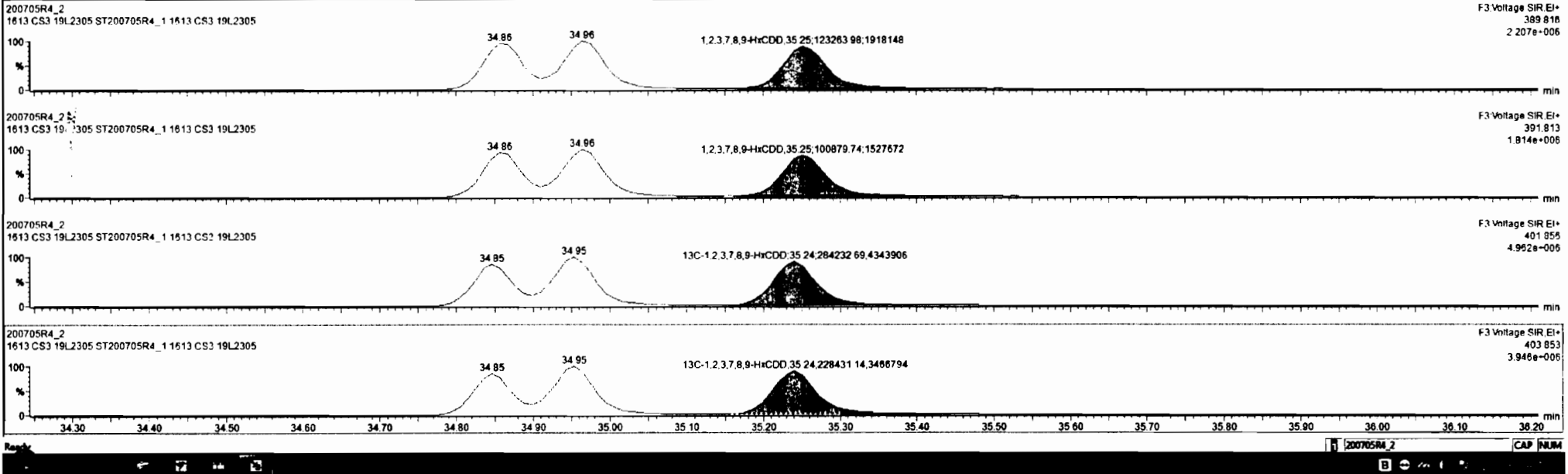
200705R4_2



200705R4_2



NO	NAME	Area	Height	FWHM	Skew	Kurt	SNR	Ident	RT	RT Flag	Prod.RRT	RRT	Conc.	Units	STD out
1	1,2,3,7,8-TCDD	8.74e4	9.73e5	0.77	0.77	NO	0.8883	26.50	26.48	NO	1.001	1.001	10.1	101	NO
2	1,2,3,7,8-PeCDD	2.90e5	6.67e5	0.63	0.61	NO	0.9061	31.47	31.47	NO	1.001	1.000	47.8	95.7	NO
3	1,2,3,4,7,8-HxCDD	2.26e5	4.48e5	1.24	1.25	NO	1.0334	34.66	34.66	NO	1.000	1.000	48.9	97.8	NO
4	1,2,3,6,7,8-HxCDD	2.54e5	5.63e5	1.24	1.23	NO	0.8823	34.95	34.96	NO	1.000	1.000	50.5	101	NO
6	1,2,3,4,6,7,8-HpCDD	1.58e5	3.49e5	1.04	1.03	NO	0.8639	38.82	38.82	NO	1.000	1.000	52.4	105	NO
7	OCDD	2.89e5	6.07e5	0.80	0.87	NO	0.9136	41.83	41.84	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	9.49e4	1.29e6	0.77	0.75	NO	0.7510	25.60	25.60	NO	1.001	1.001	9.87	98.7	NO
9	1,2,3,7,8-PeCDF	4.39e5	9.83e5	1.55	1.53	NO	0.8925	30.19	30.18	NO	1.001	1.001	50.0	99.9	NO
10	2,3,4,7,8-PeCDF	4.34e5	9.47e5	1.55	1.56	NO	0.9348	31.16	31.16	NO	1.001	1.000	49.0	98.1	NO
11	1,2,3,4,7,8-HxCDF	2.81e5	5.88e5	1.24	1.20	NO	0.8845	33.97	33.98	NO	1.000	1.000	50.2	100	NO
12	1,2,3,6,7,8-HxCDF	2.90e5	6.84e5	1.24	1.20	NO	0.8892	34.10	34.10	NO	1.000	1.000	47.7	95.5	NO
13	2,3,4,6,7,8-HxCDF	2.72e5	5.91e5	1.24	1.20	NO	0.9341	34.70	34.70	NO	1.001	1.001	49.4	98.7	NO
14	1,2,3,7,8,9-HxCDF	2.08e5	4.75e5	1.24	1.18	NO	0.8707	35.62	35.62	NO	1.001	1.001	50.2	100	NO
15	1,2,3,4,6,7,8-HpCDF	1.83e5	4.18e5	1.04	0.99	NO	0.8734	37.43	37.41	NO	1.001	1.001	50.2	100	NO
16	1,2,3,4,7,8,9-HpCDF	1.37e5	2.57e5	1.04	1.02	NO	1.0126	39.36	39.37	NO	1.000	1.000	52.8	106	NO
17	OCDF	2.79e5	6.90e5	0.89	0.85	NO	0.8065	42.01	42.02	NO	1.000	1.000	100	100	NO
18	1,2,3,7,8-TCDF	9.73e5	8.17e5	0.77	0.77	NO	1.1563	26.46	26.47	NO	1.025	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	6.67e5	8.17e5	0.63	0.63	NO	0.8490	31.48	31.45	NO	1.219	1.219	96.2	96.2	NO
20	13C-1,2,3,4,7,8-HxCDD	4.48e5	5.72e5	1.24	1.27	NO	0.7790	34.64	34.85	NO	1.014	1.014	100	100	NO
21	13C-1,2,3,6,7,8-HxCDD	5.63e5	5.72e5	1.24	1.27	NO	1.0167	34.94	34.95	NO	1.017	1.017	98.9	98.9	NO



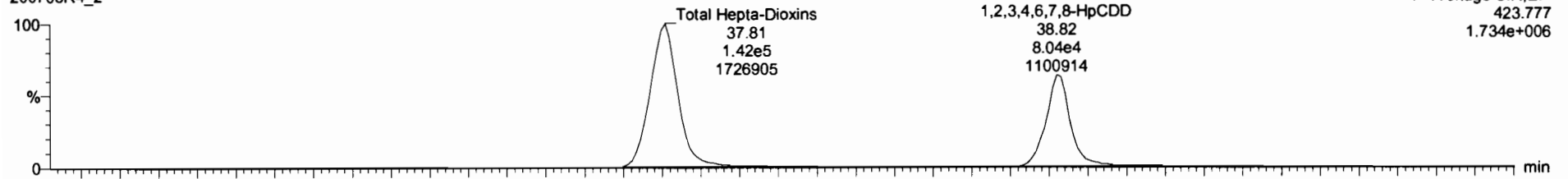
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Printed: Monday, July 06, 2020 08:59:02 Pacific Daylight Time

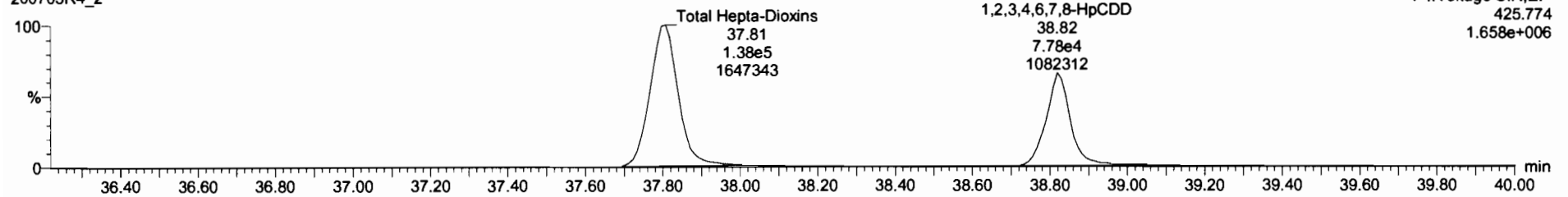
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1,2,3,4,6,7,8-HpCDD

200705R4_2

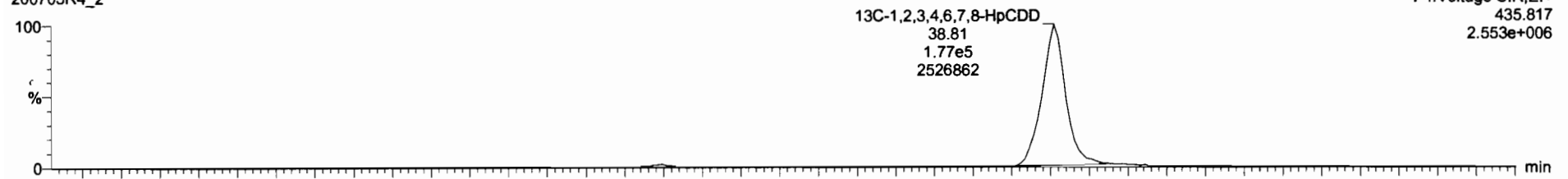


200705R4_2

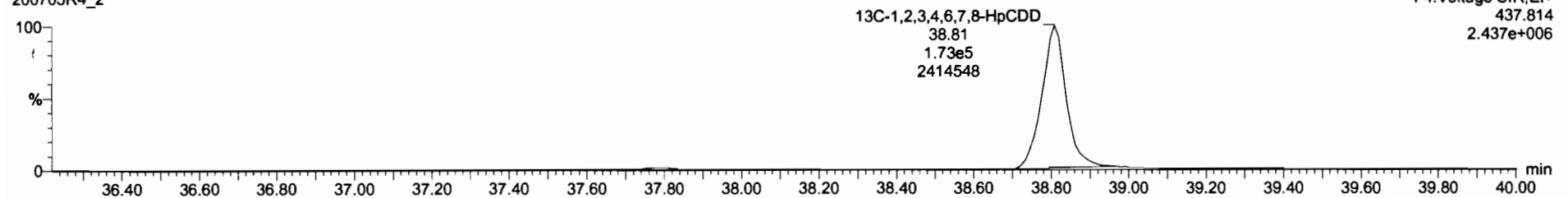


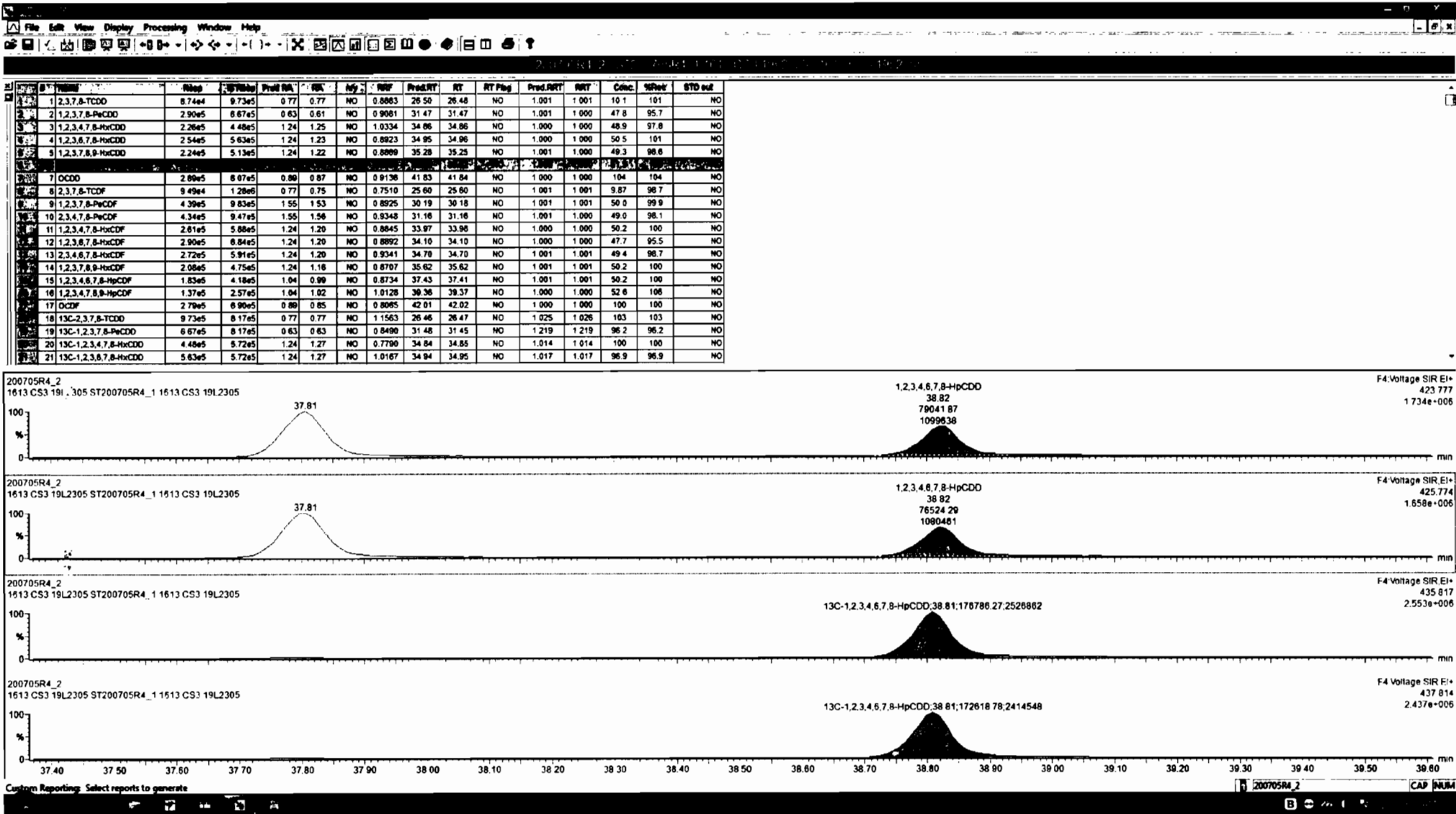
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200705R4_2



200705R4_2





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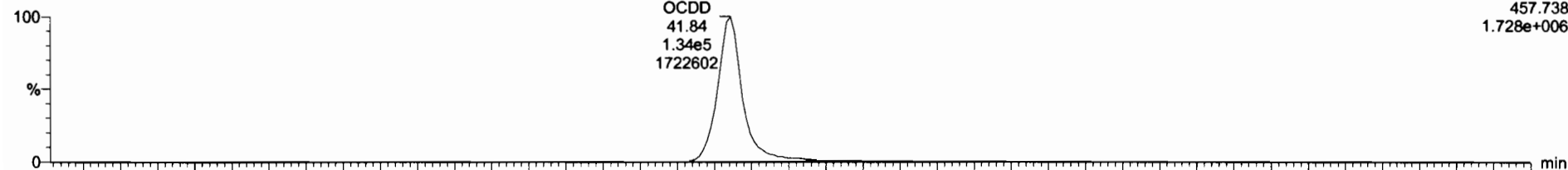
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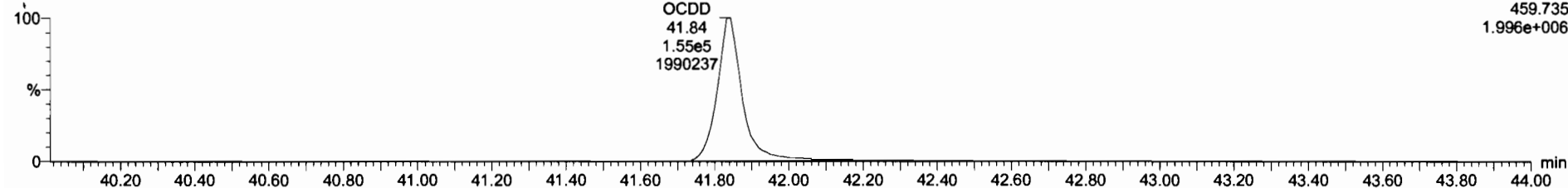
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OCDD

200705R4_2

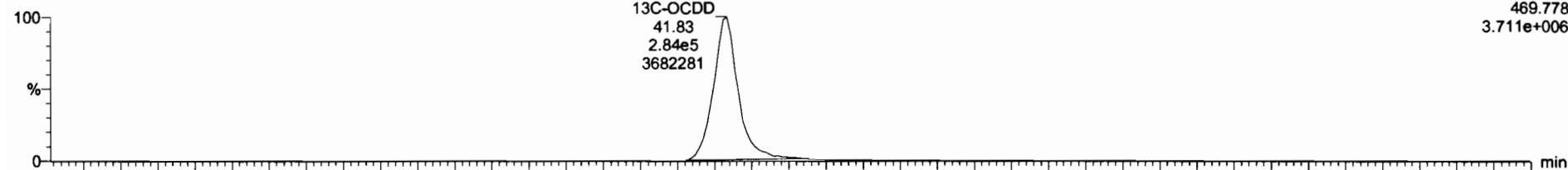


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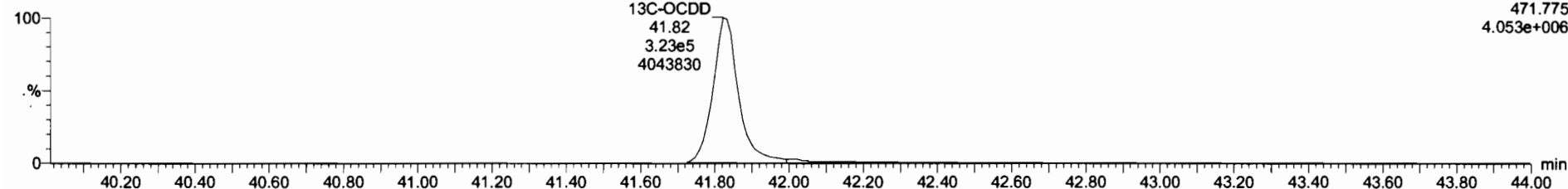


13C-OCDD

200705R4_2



200705R4_2



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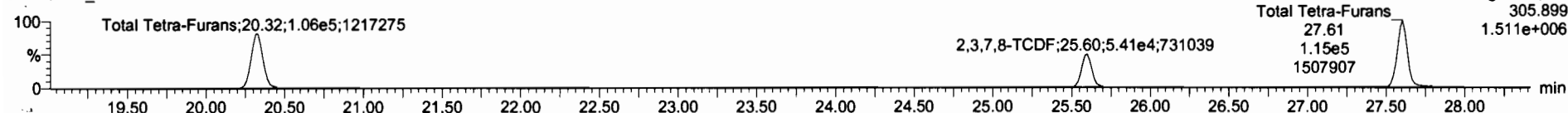
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2,3,7,8-TCDF

200705R4_2

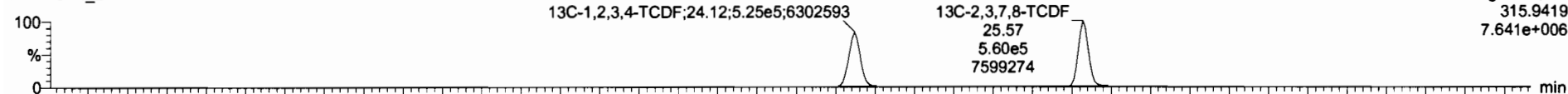


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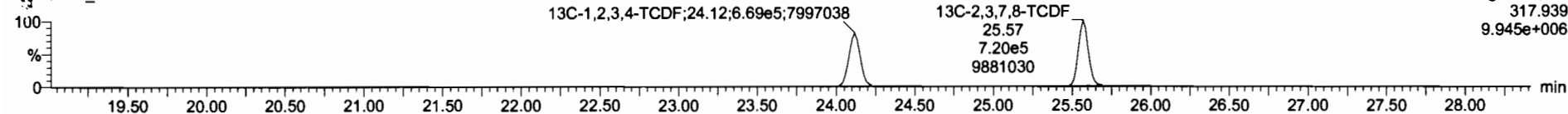


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200705R4_2

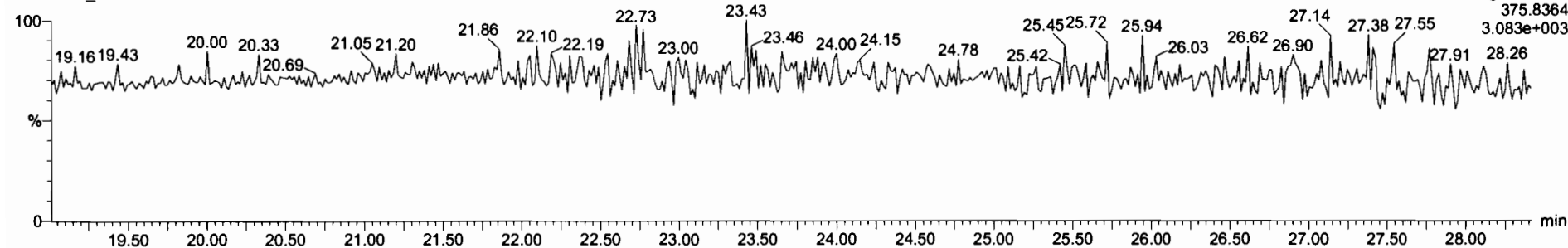


200705R4_2



DPE1

200705R4_2



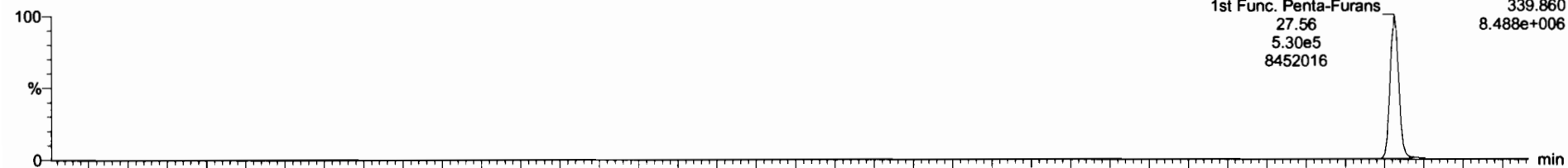
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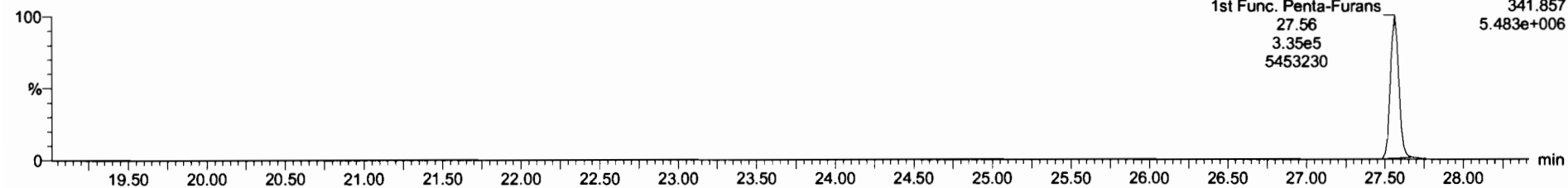
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200705R4_2

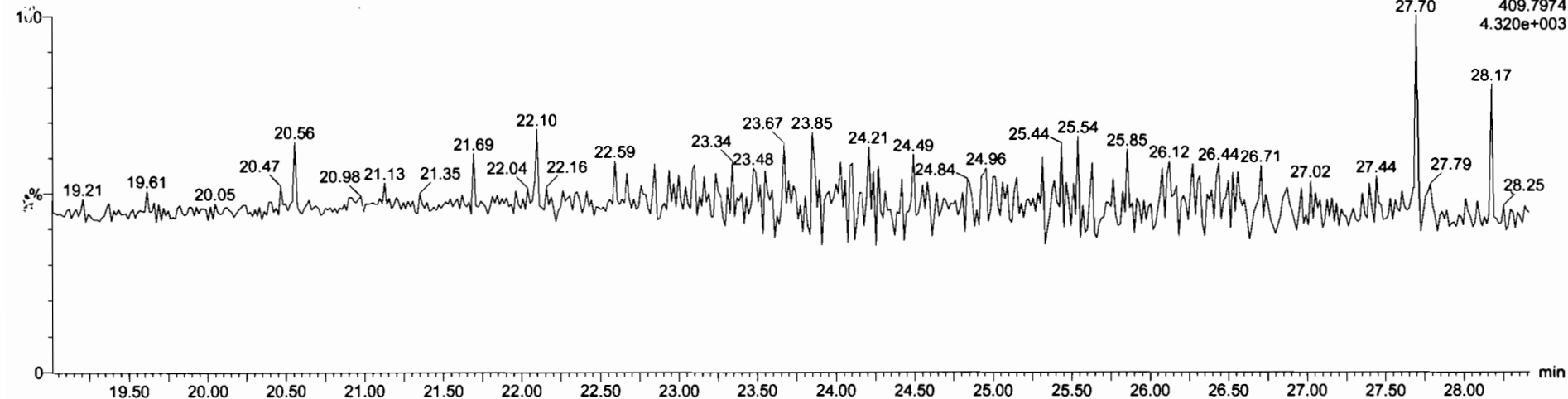


200705R4_2



DPE6

200705R4_2



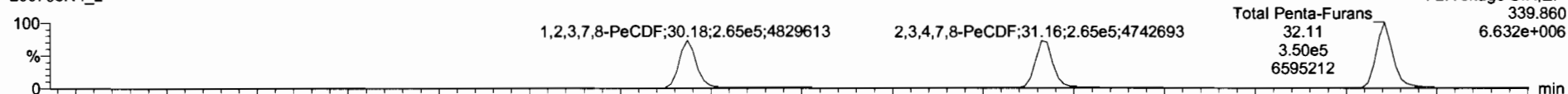
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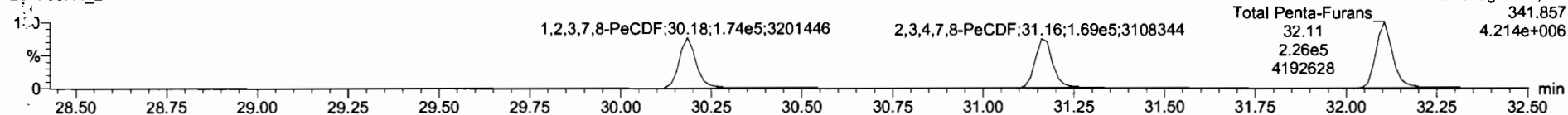
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1,2,3,7,8-PeCDF

200705R4_2

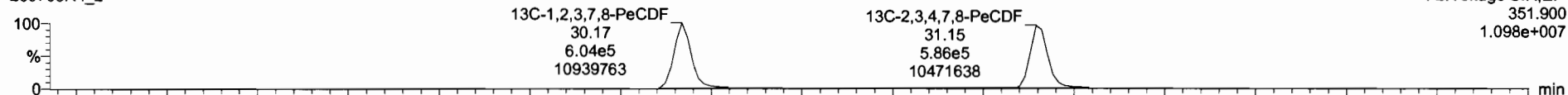


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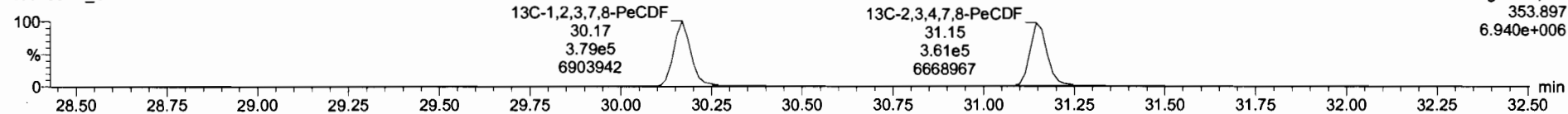


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200705R4_2

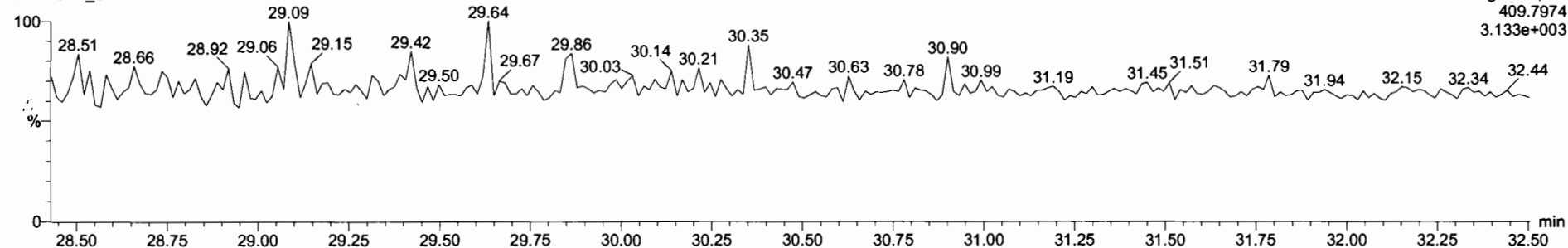


200705R4_2



DPE2

200705R4_2



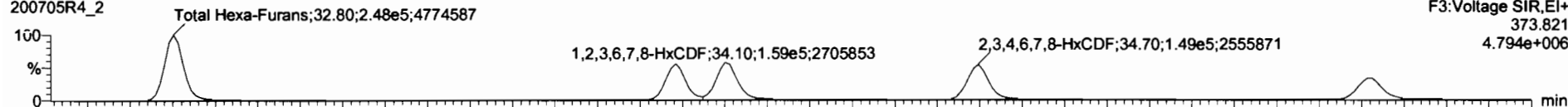
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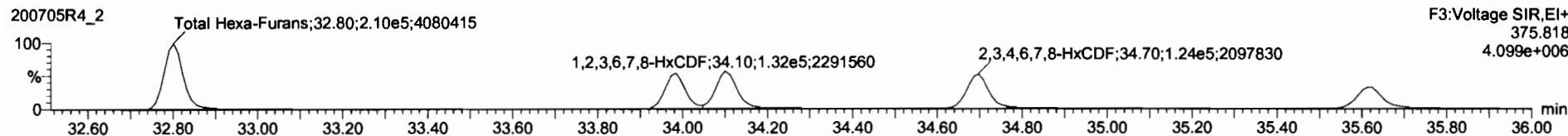
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1,2,3,4,7,8-HxCDF

200705R4_2

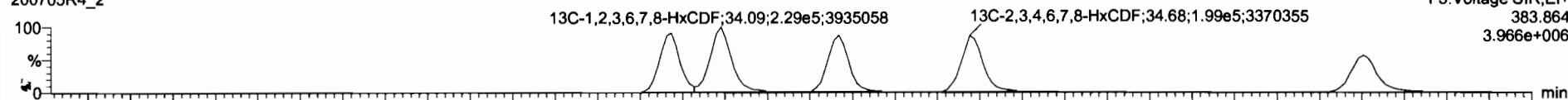


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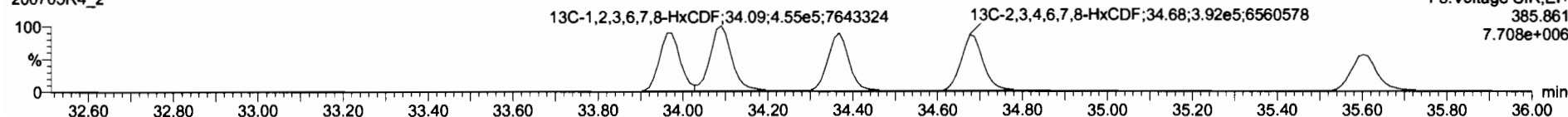


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200705R4_2

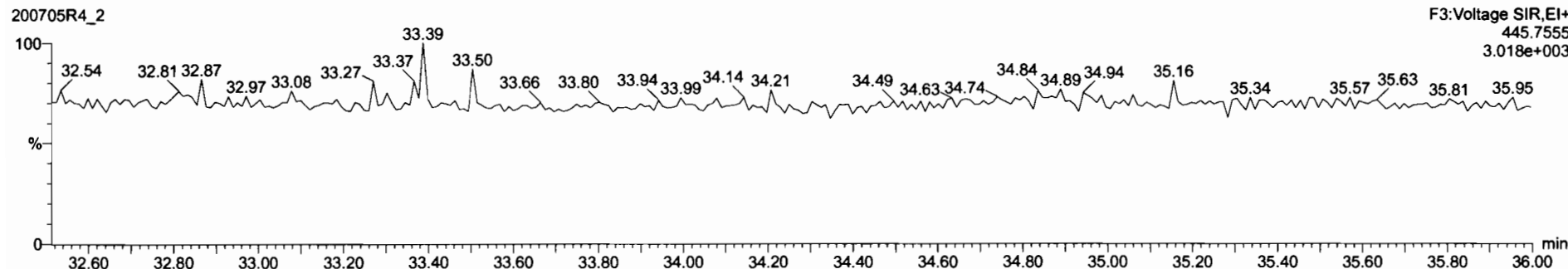


200705R4_2



DPE3

200705R4_2



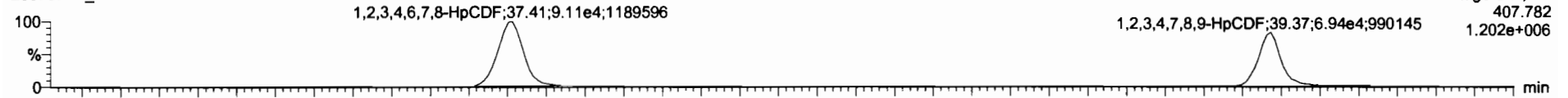
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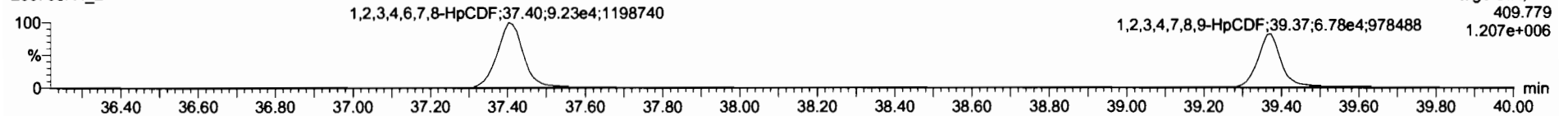
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1,2,3,4,6,7,8-HpCDF

200705R4_2

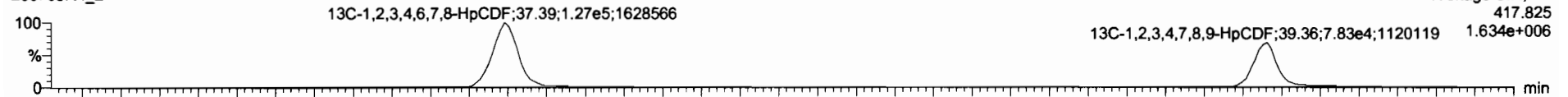


200705R4_2

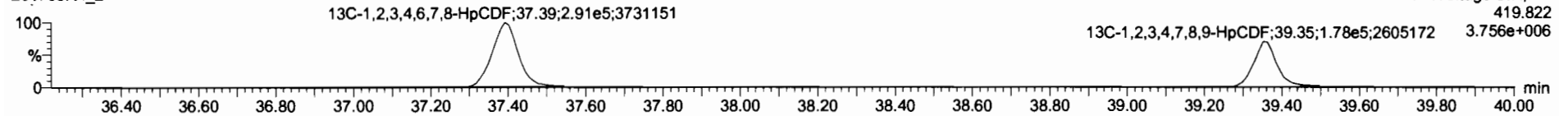


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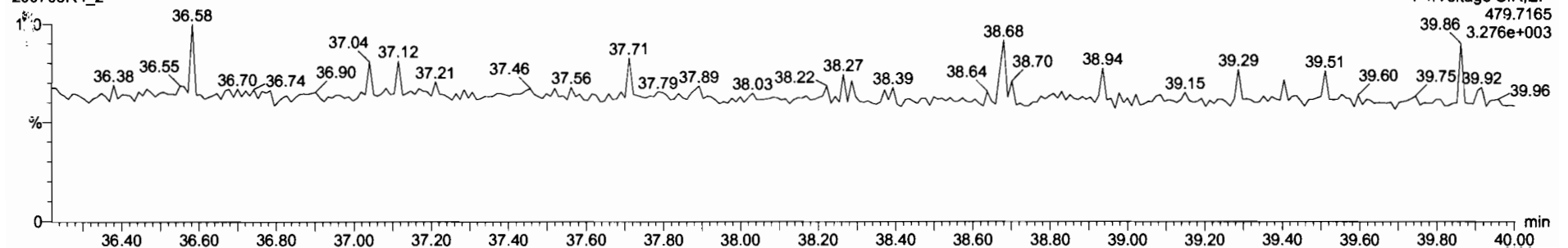


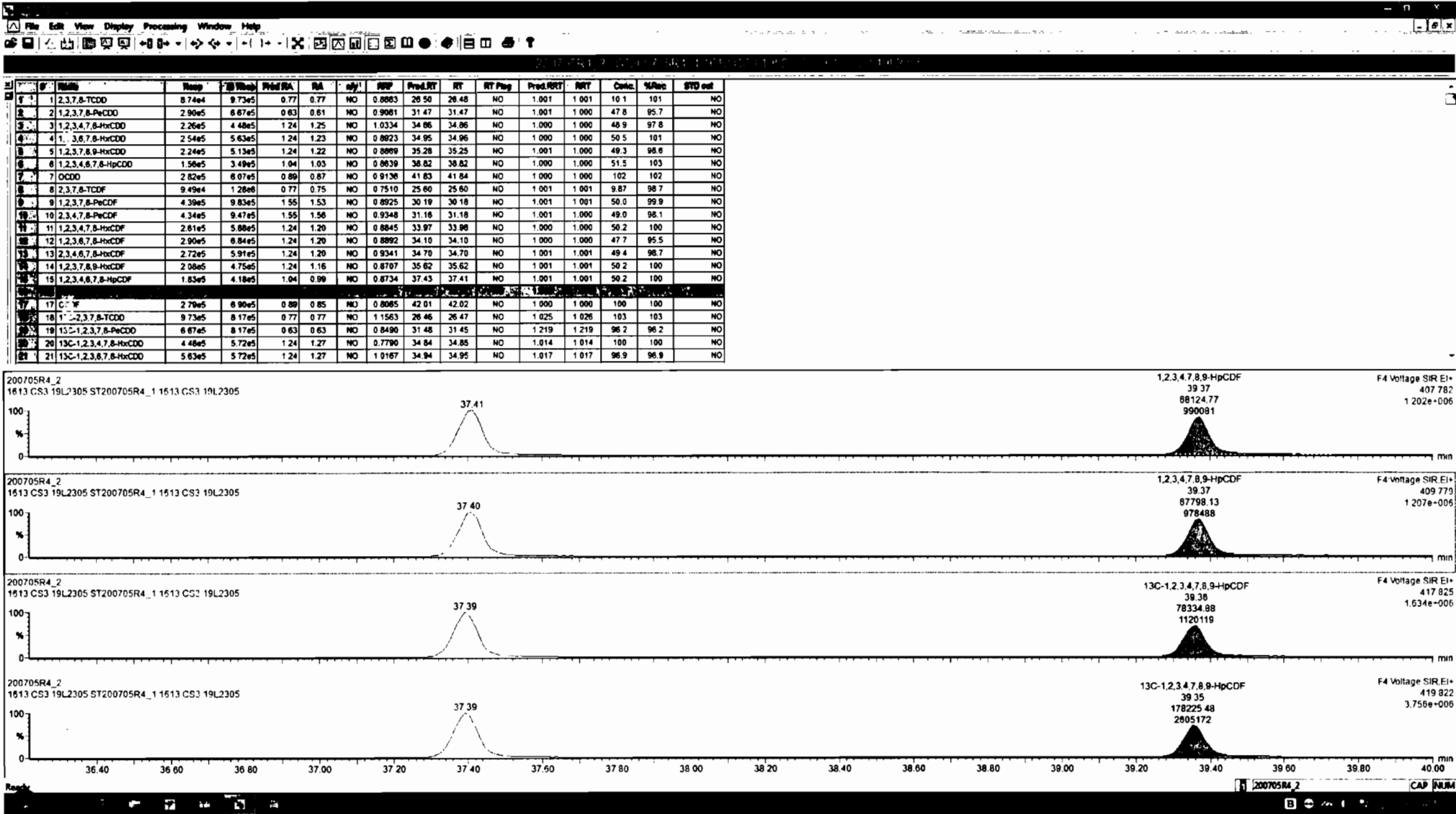
200705R4_2



DPE4

200705R4_2



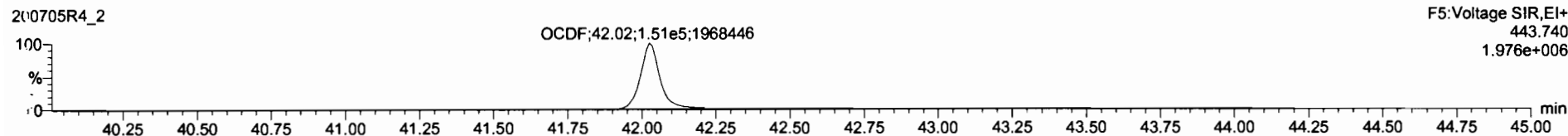
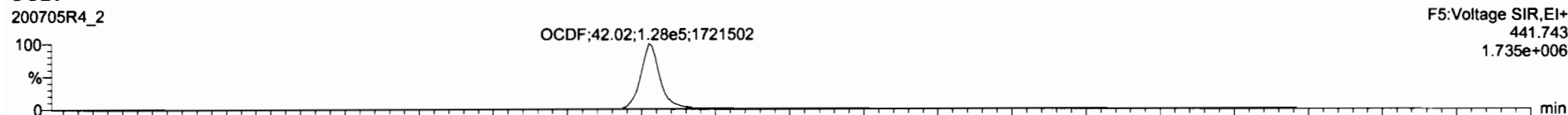


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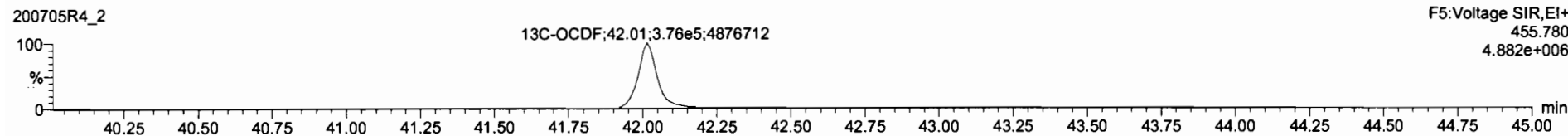
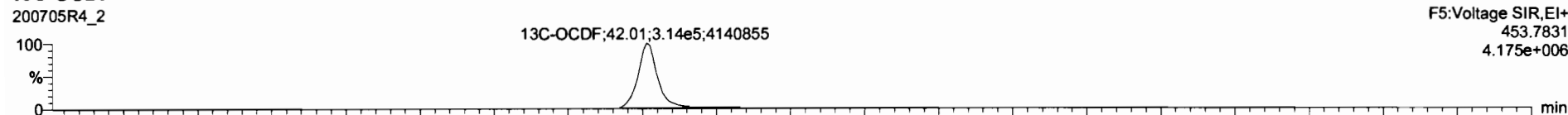
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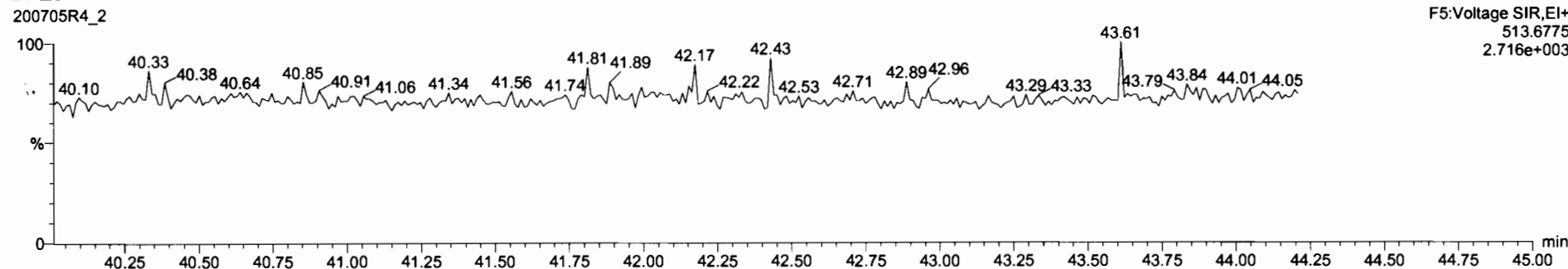
OCDF



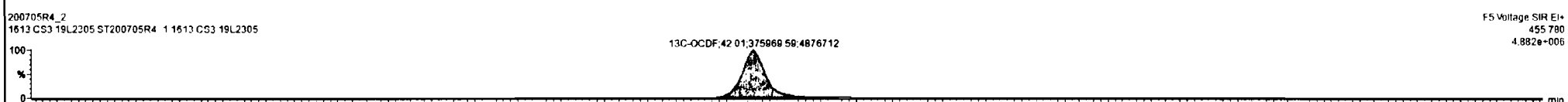
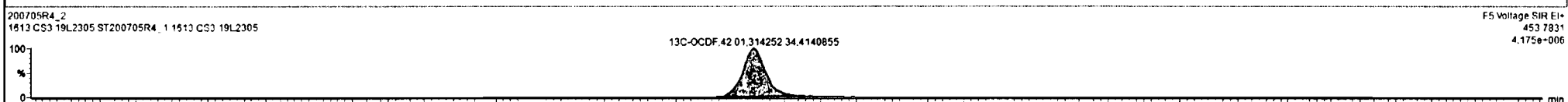
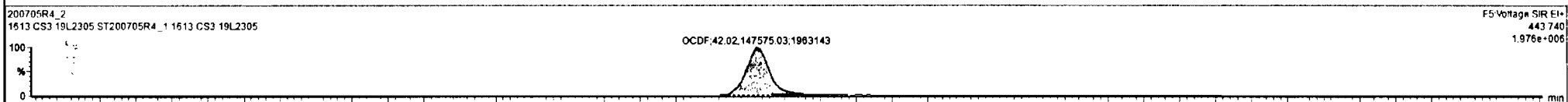
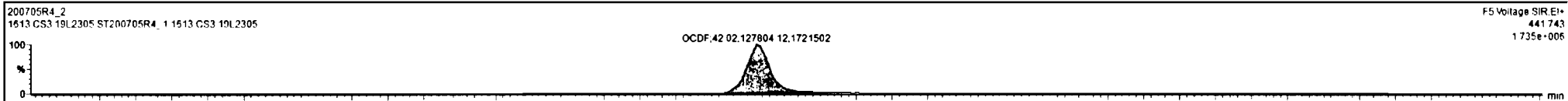
13C-OCDF



DPE5



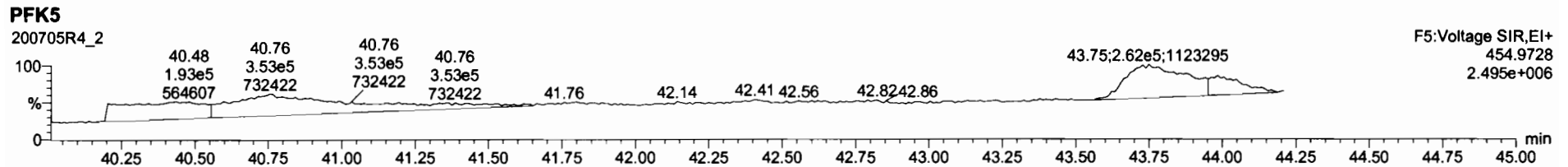
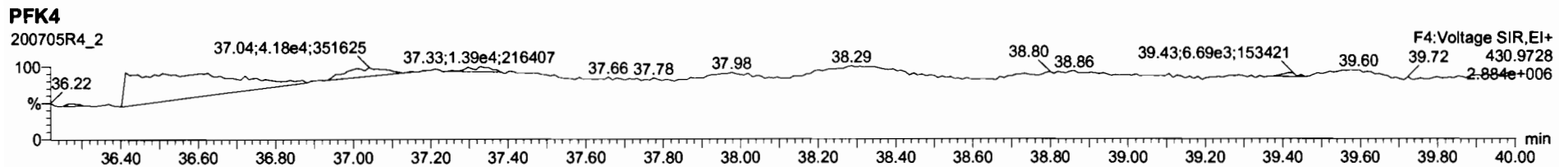
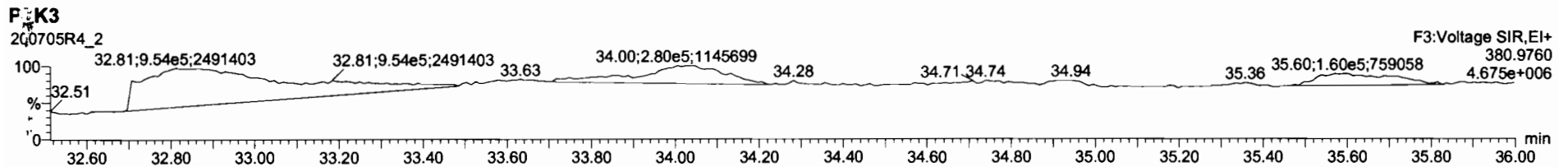
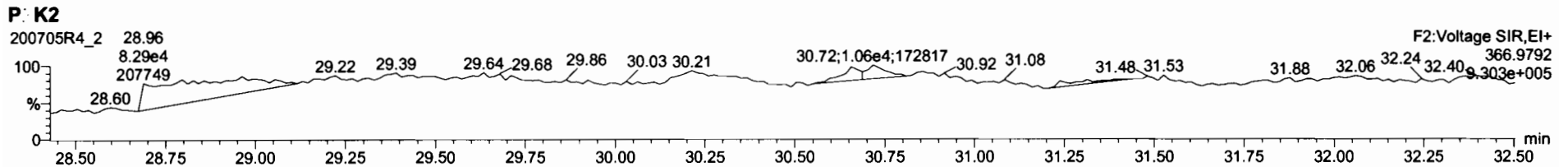
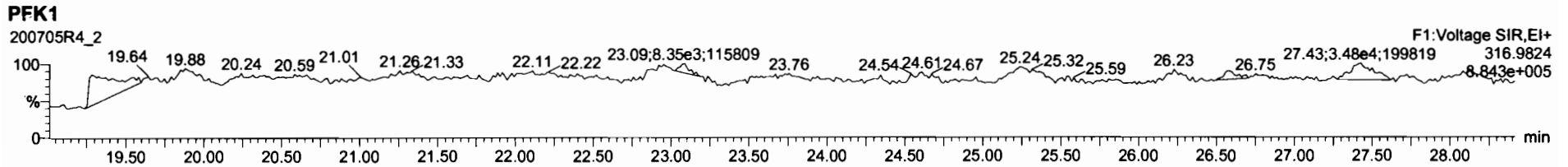
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2	1,2,3,7,8-PeCDD	2.90e5	6.67e5	0.63	0.61	NO	0.9081	31.47	31.47	NO	1.001	1.000	47.8	95.7	NO
3	1,2,3,4,7,8-HxCDD	2.26e5	4.48e5	1.24	1.25	NO	1.0334	34.86	34.86	NO	1.000	1.000	48.9	97.8	NO
4	1,2,3,6,7,8-HxCDD	2.54e5	5.63e5	1.24	1.23	NO	0.8923	34.95	34.96	NO	1.000	1.000	50.5	101	NO
5	1,2,3,7,8,9-HxCDD	2.24e5	5.13e5	1.24	1.22	NO	0.8869	35.28	35.25	NO	1.001	1.000	49.3	98.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.56e5	3.48e5	1.04	1.03	NO	0.8639	36.82	36.82	NO	1.000	1.000	51.5	103	NO
7	OCDD	2.82e5	6.07e5	0.89	0.87	NO	0.9136	41.83	41.84	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	9.49e4	1.28e6	0.77	0.75	NO	0.7510	25.60	25.60	NO	1.001	1.001	9.87	98.7	NO
9	1,2,3,7,8-PeCDF	4.39e5	9.83e5	1.55	1.53	NO	0.8925	30.19	30.18	NO	1.001	1.001	50.0	99.9	NO
10	2,3,4,7,8-PeCDF	4.34e5	9.47e5	1.55	1.56	NO	0.9348	31.16	31.16	NO	1.001	1.000	49.0	98.1	NO
11	1,2,3,4,7,8-HxCDF	2.81e5	5.88e5	1.24	1.20	NO	0.8845	33.97	33.96	NO	1.000	1.000	50.2	100	NO
12	1,2,3,6,7,8-HxCDF	2.90e5	6.84e5	1.24	1.20	NO	0.8892	34.10	34.10	NO	1.000	1.000	47.7	95.5	NO
13	2,3,4,6,7,8-HxCDF	2.72e5	5.91e5	1.24	1.20	NO	0.9341	34.70	34.70	NO	1.001	1.001	49.4	98.7	NO
14	1,2,3,7,8,9-HxCDF	2.08e5	4.75e5	1.24	1.16	NO	0.8707	35.62	35.62	NO	1.001	1.001	50.2	100	NO
15	1,2,3,4,6,7,8-HpCDF	1.83e5	4.18e5	1.04	0.99	NO	0.8734	37.43	37.41	NO	1.001	1.001	50.2	100	NO
16	1,2,3,4,7,8,9-HpCDF	1.36e5	2.57e5	1.04	1.00	NO	1.0128	39.36	39.37	NO	1.000	1.000	52.3	105	NO
18	13C-2,3,7,8-TCDD	9.73e5	6.17e5	0.77	0.77	NO	1.1563	26.46	26.47	NO	1.025	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	6.67e5	6.17e5	0.63	0.63	NO	0.8490	31.48	31.45	NO	1.219	1.219	96.2	96.2	NO
20	13C-1,2,3,4,7,8-HxCDD	4.48e5	5.72e5	1.24	1.27	NO	0.7790	34.84	34.85	NO	1.014	1.014	100	100	NO
21	13C-1,2,3,6,7,8-HxCDD	5.63e5	5.72e5	1.24	1.27	NO	1.0167	34.94	34.95	NO	1.017	1.017	96.9	96.9	NO



Dataset: Untitled

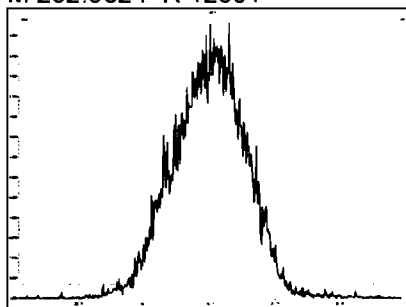
Last Altered: Monday, July 06, 2020 08:58:36 Pacific Daylight Time
Printed: Monday, July 06, 2020 08:59:02 Pacific Daylight Time

Name: 200705R4_2, Date: 06-Jul-2020, Time: 02:25:07, ID: ST200705R4_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

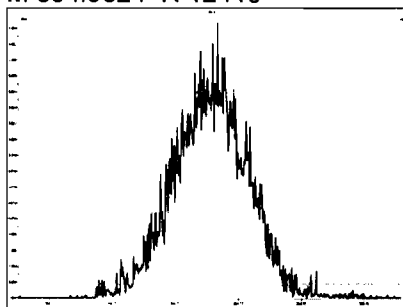


Printed: Monday, July 06, 2020 06:21:17 Pacific Daylight Time

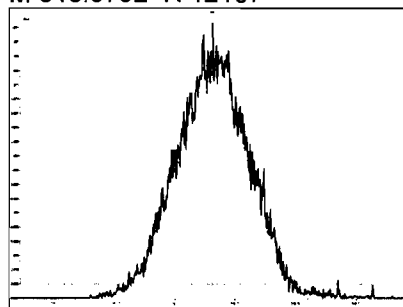
M 292.9824 R 12501



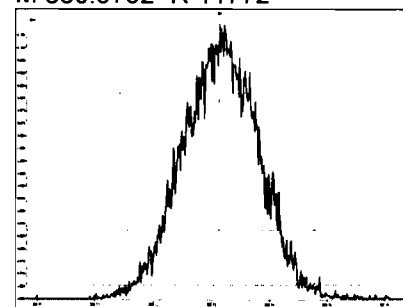
M 304.9824 R 12410



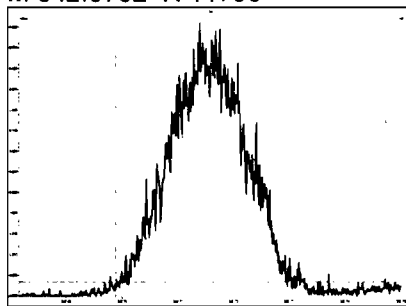
M 318.9792 R 12107



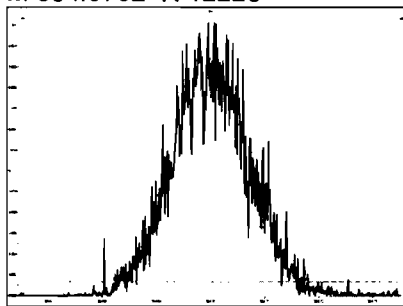
M 330.9792 R 11772



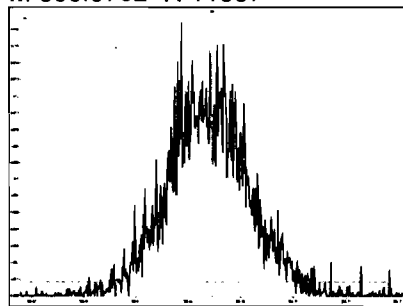
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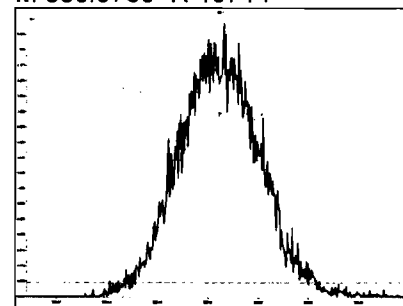
M 354.9792 R 12228



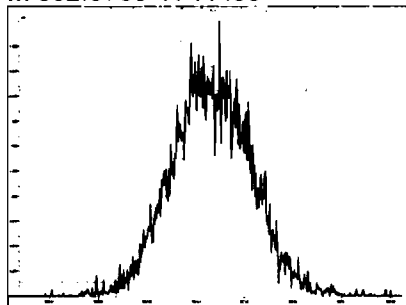
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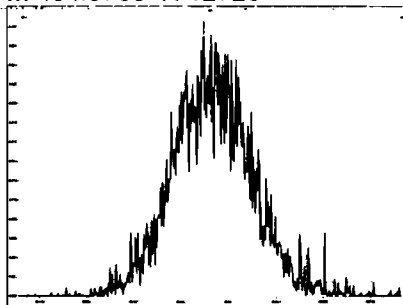
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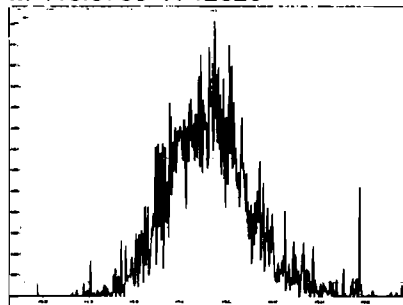
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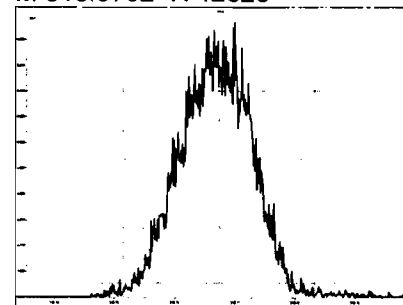
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M 416.9760 R 12329

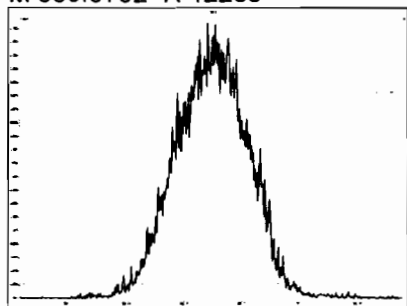


M 318.9792 R 12628

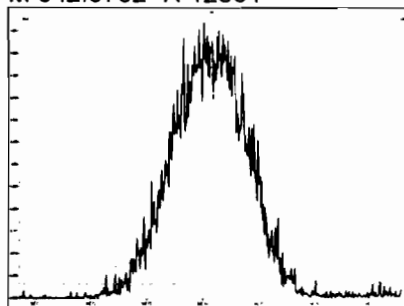


Printed: Monday, July 06, 2020 06:21:17 Pacific Daylight Time

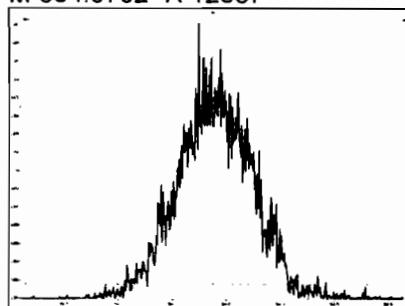
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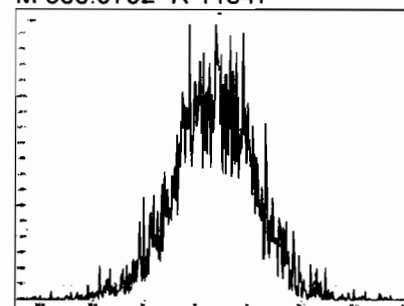
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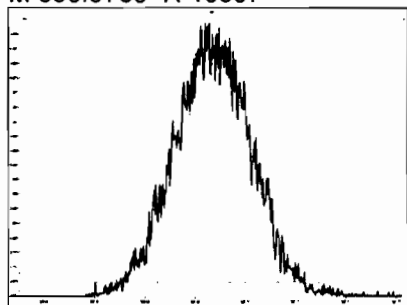
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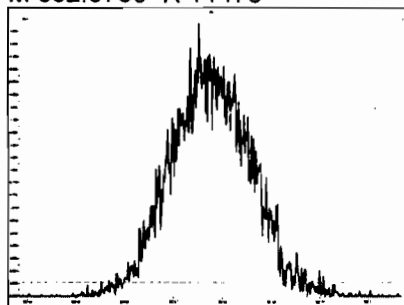
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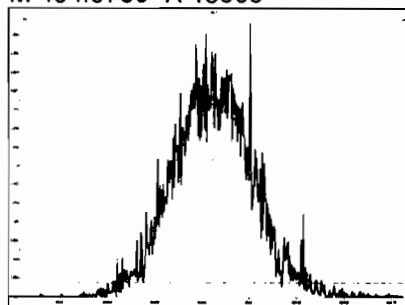
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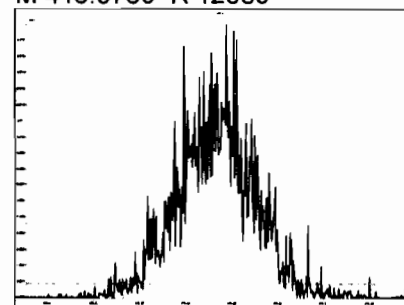
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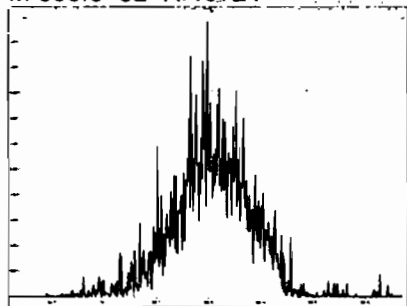
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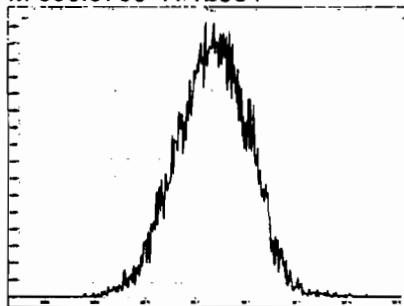
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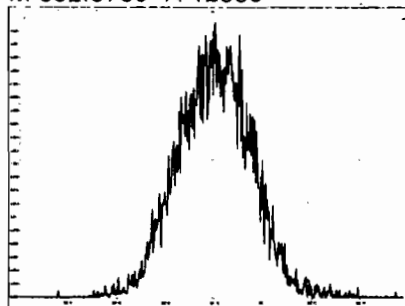
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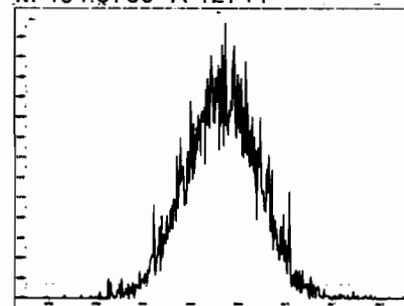
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M 392.9760 R 12889

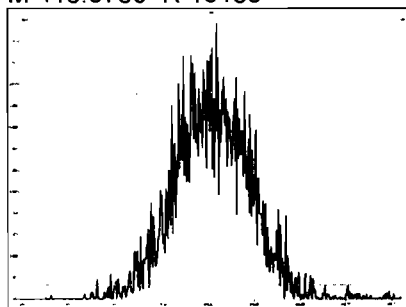


M 404.9760 R 12711

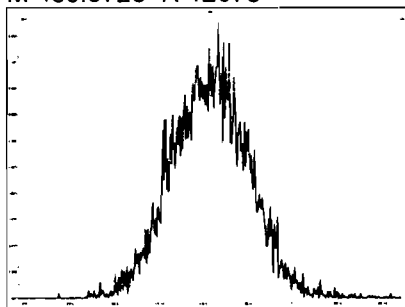


Printed: Monday, July 06, 2020 06:21:17 Pacific Daylight Time

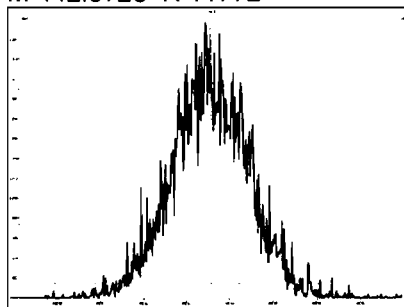
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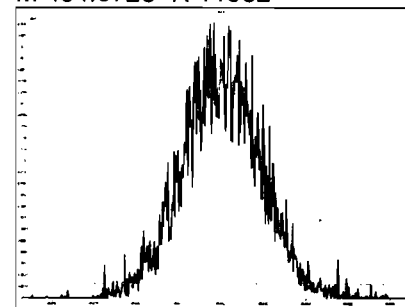
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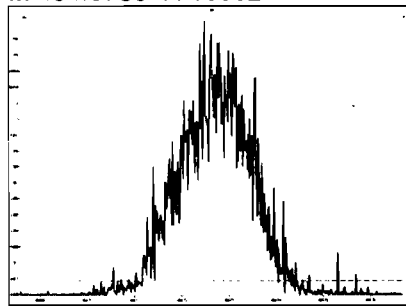
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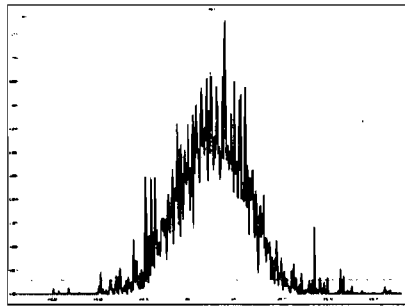
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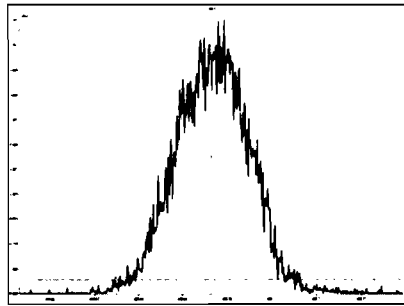
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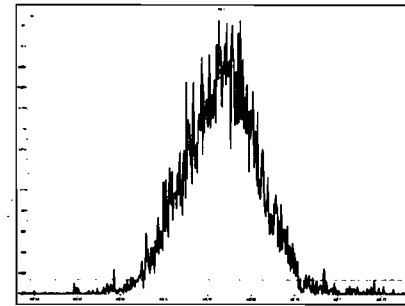
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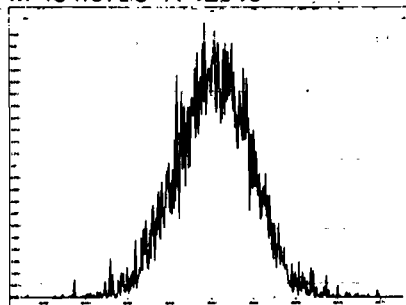
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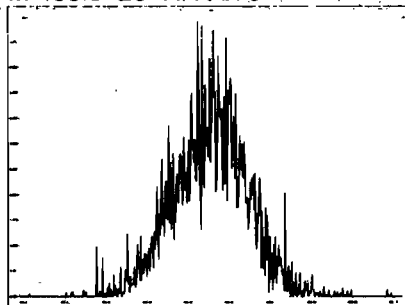
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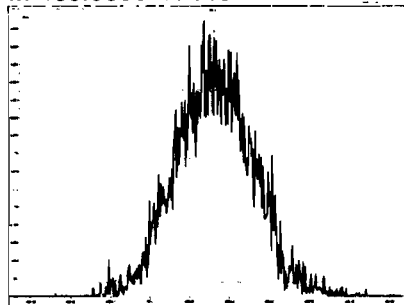
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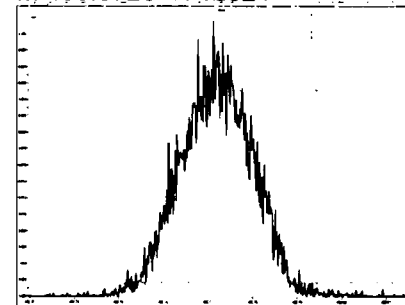
M 466.9728 R 15075



M 480.9696 R 11911

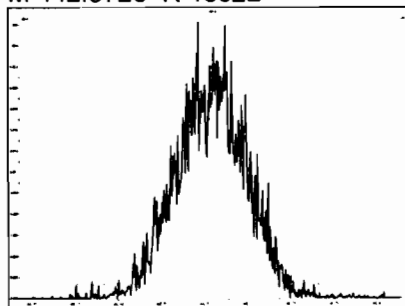


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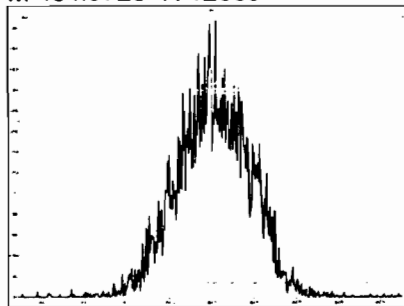


Printed: Monday, July 06, 2020 06:21:17 Pacific Daylight Time

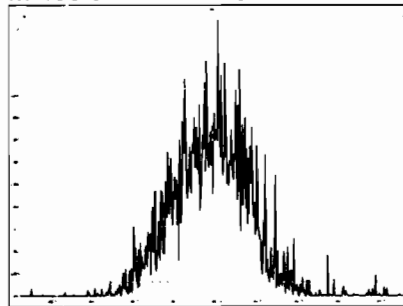
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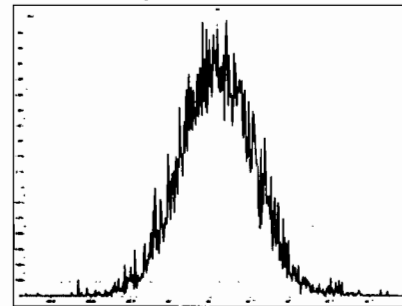
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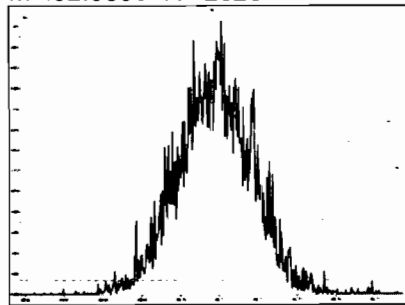
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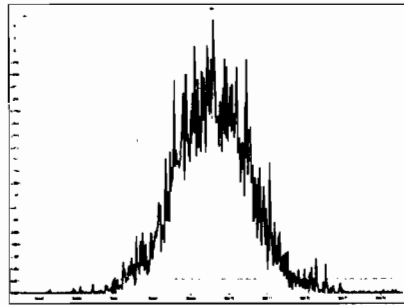
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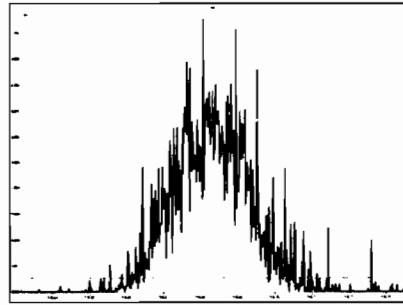
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M 504.9696 R 12692

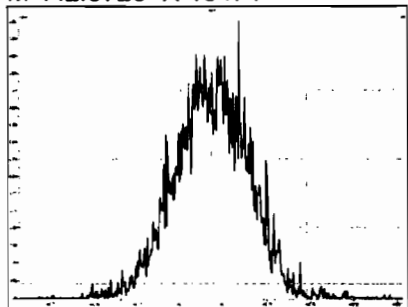


M 516.9697 R 12944

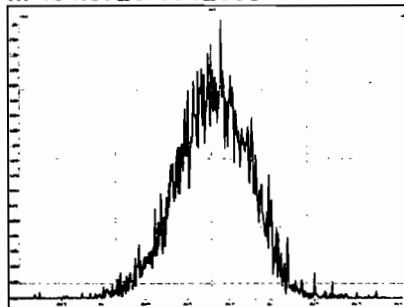


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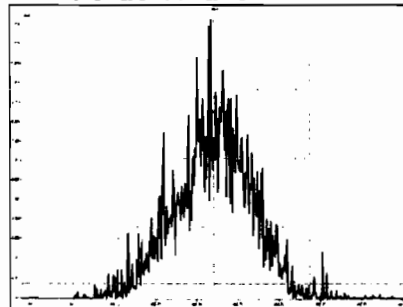
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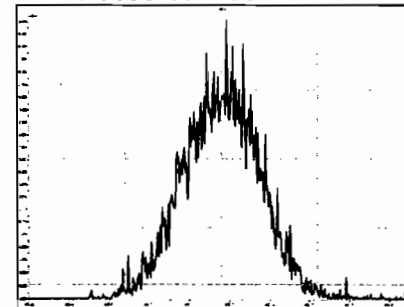
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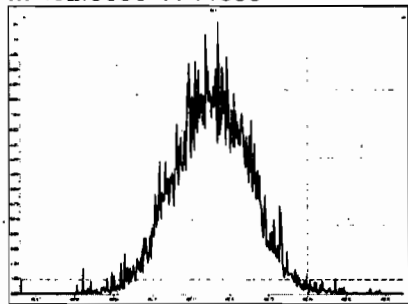
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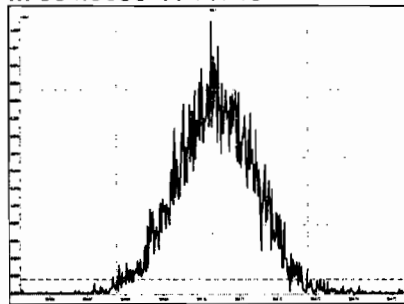
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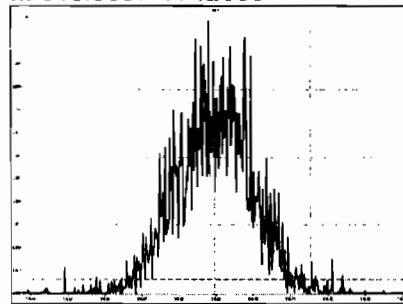
M 492.9696 R 11399



M 504.9696 R 11740



M 516.9697 R 12855



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:	<div style="height: 200px;"></div>	
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 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 07/09/2020

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

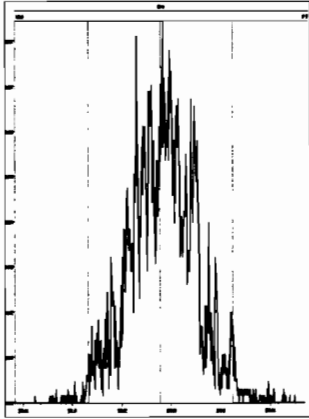
Compound name: 2,3,7,8-TCDF

Name	ID	Acq.Date	Acq.Time
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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-05-6.6-200508 ...	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
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200708D1_21	ST200708D1-2 1613 CS3 19L2305	08-Jul-20	20:43:29

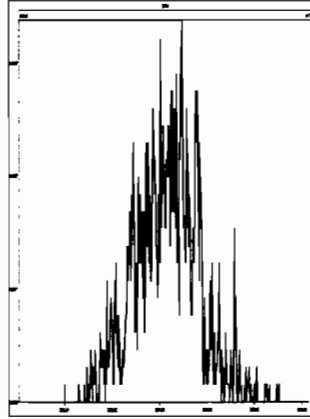
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, July 08, 2020 10:07:19 Pacific Daylight Time

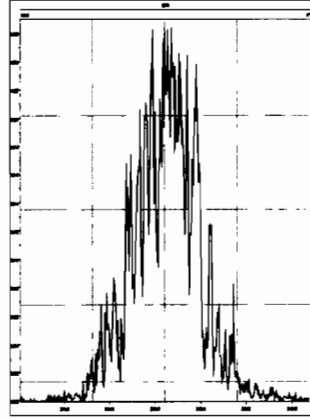
M 292.9824 R 13016



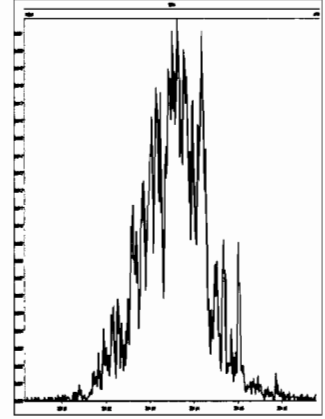
M 304.9824 R 11682



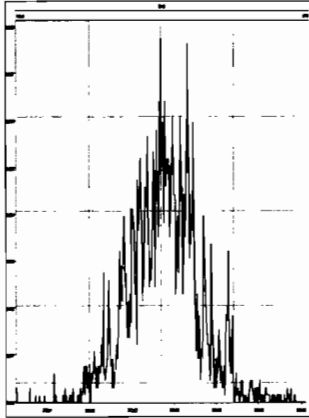
M 318.9792 R 11681



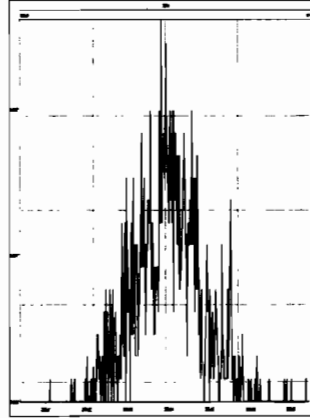
M 330.9792 R 10201



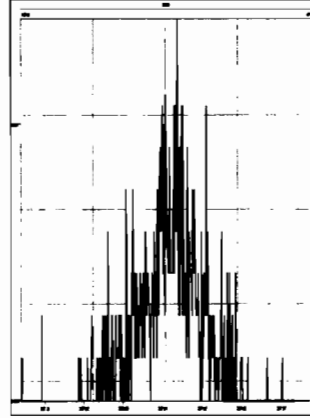
M 342.9792 R 10870



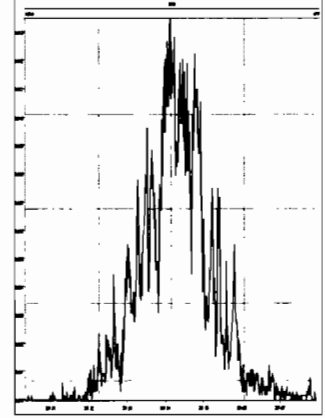
M 354.9792 R 16030

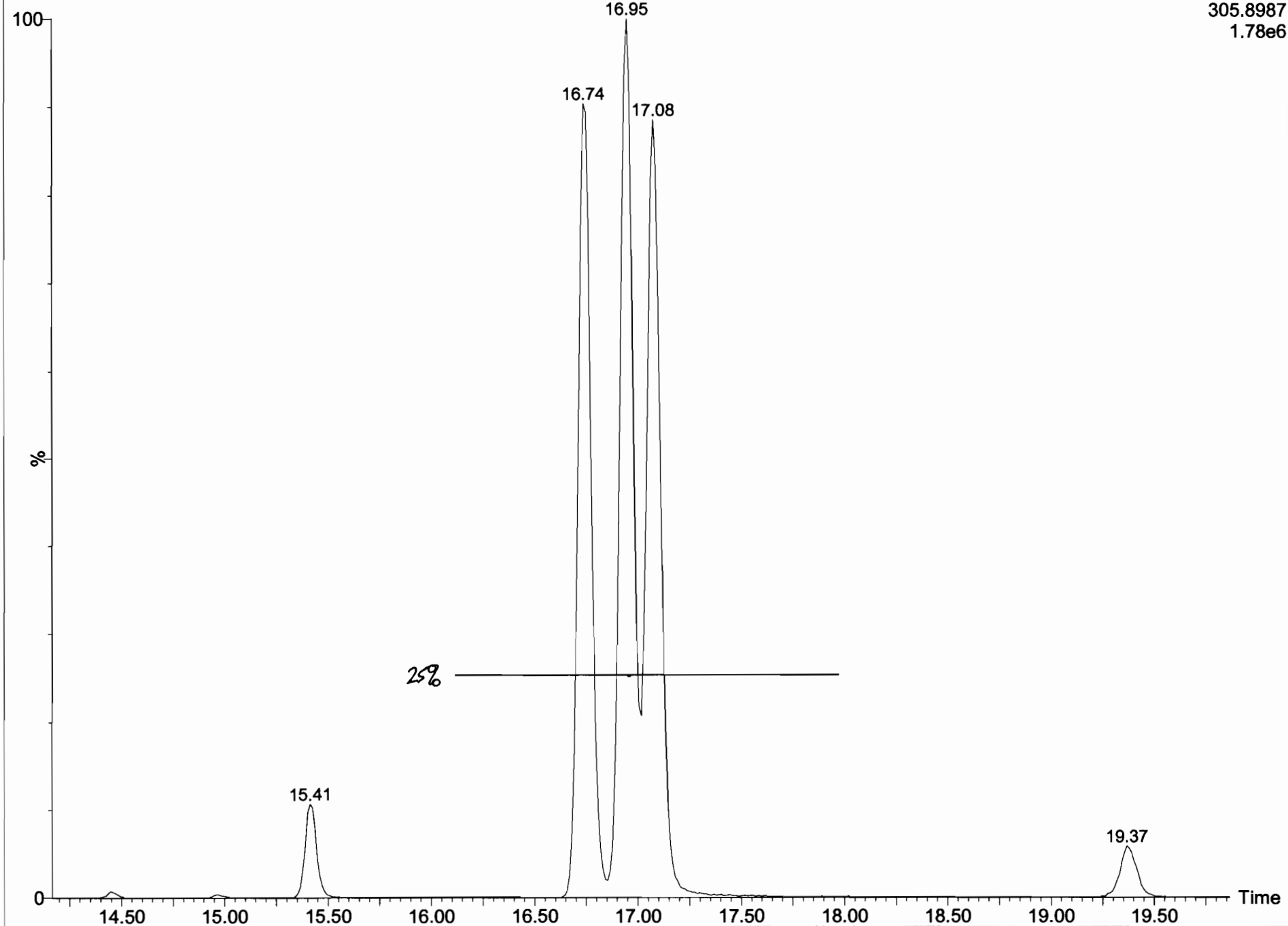


M 366.9792 R 12251



M 380.9760 R 11962





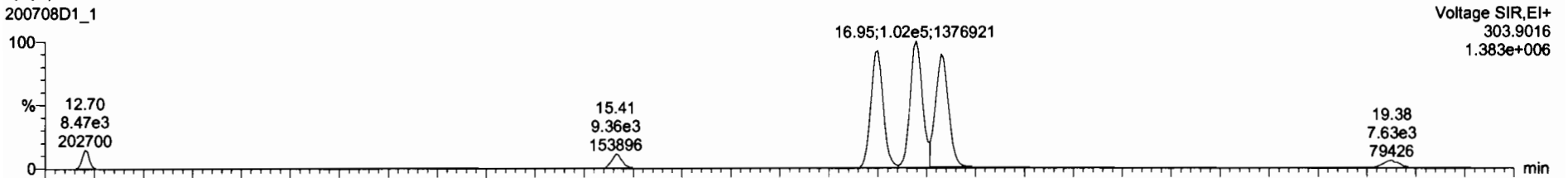
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Last Altered: Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:12:35 Pacific Daylight Time

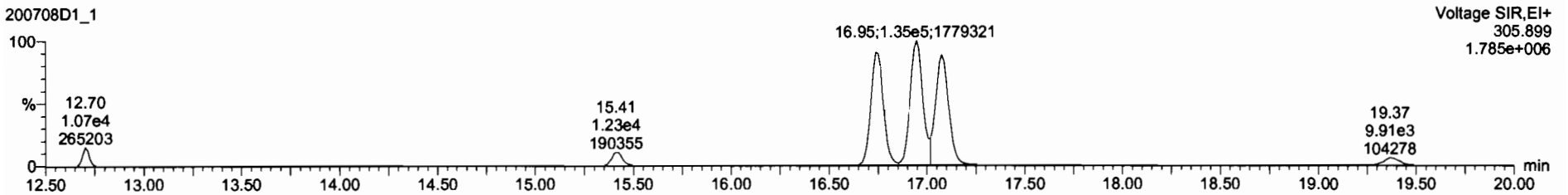
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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

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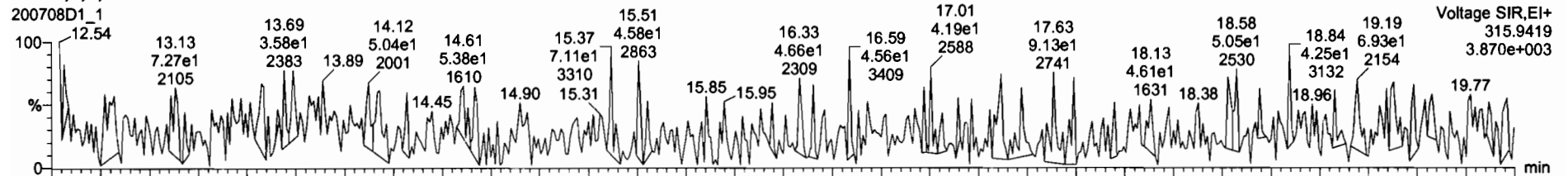
2,3,7,8-TCDF
200708D1_1



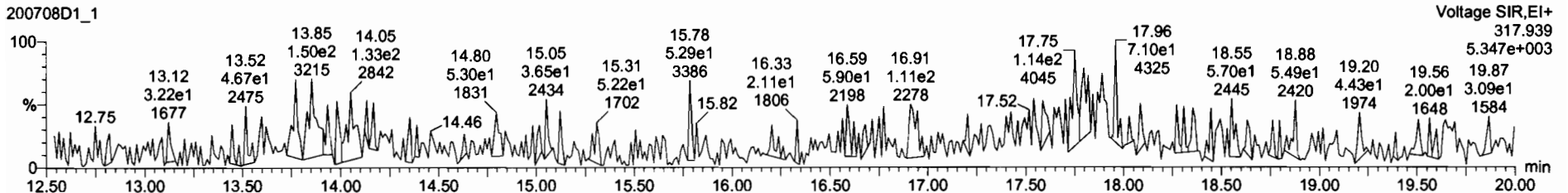
200708D1_1



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



200708D1_1

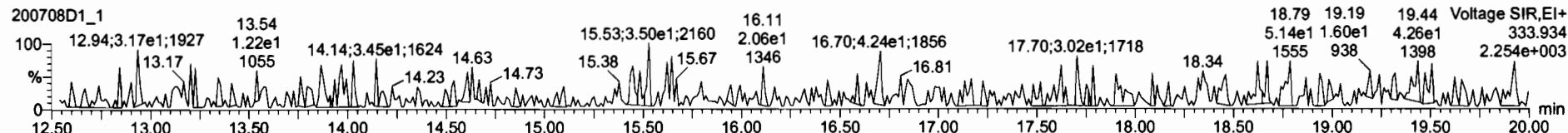
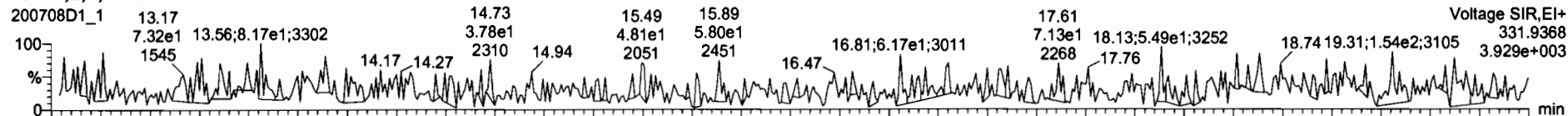


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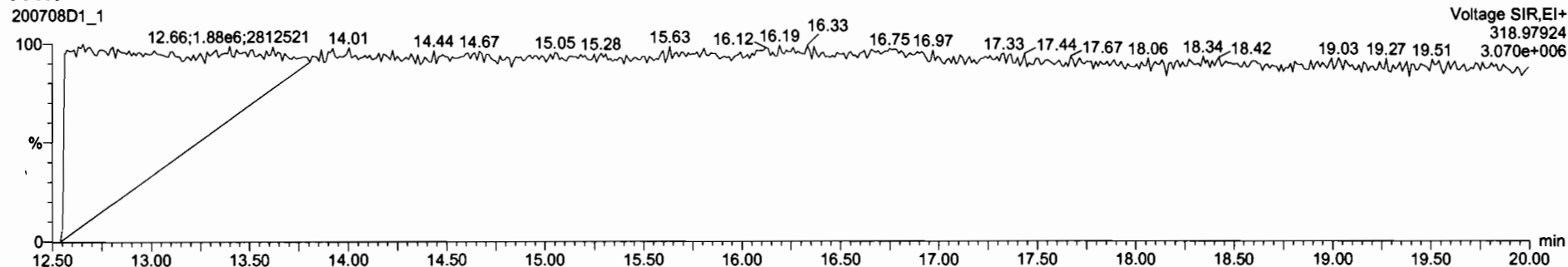
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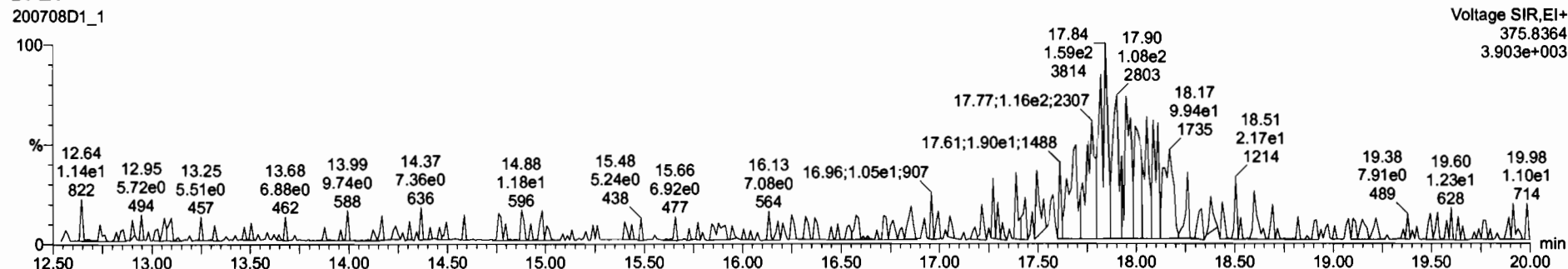
13C-1,2,3,4-TCDD



PFK1



DPE1



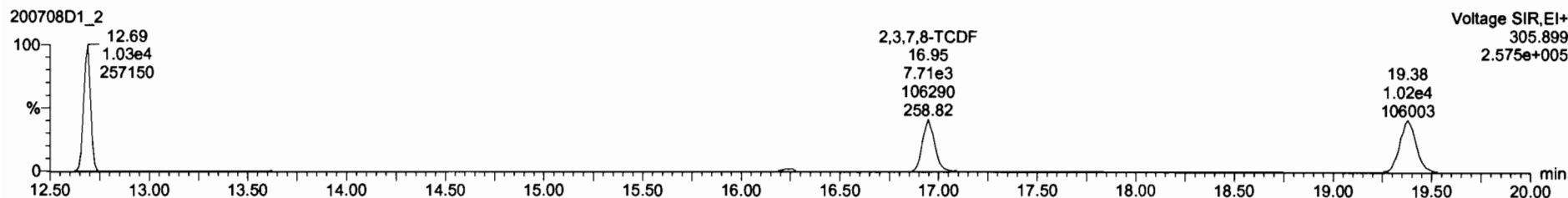
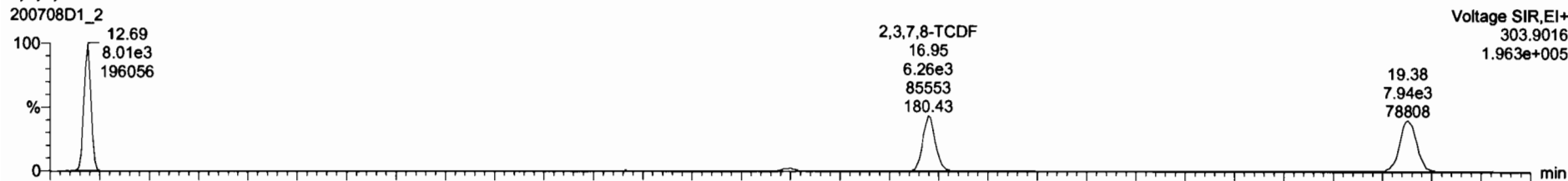
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Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:11:31 Pacific Daylight Time

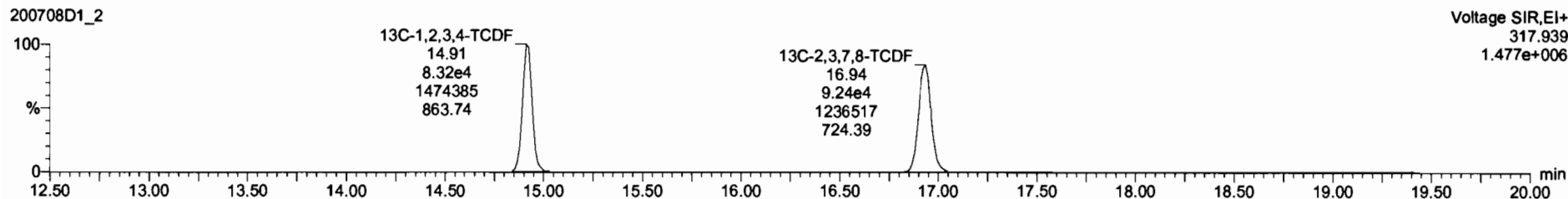
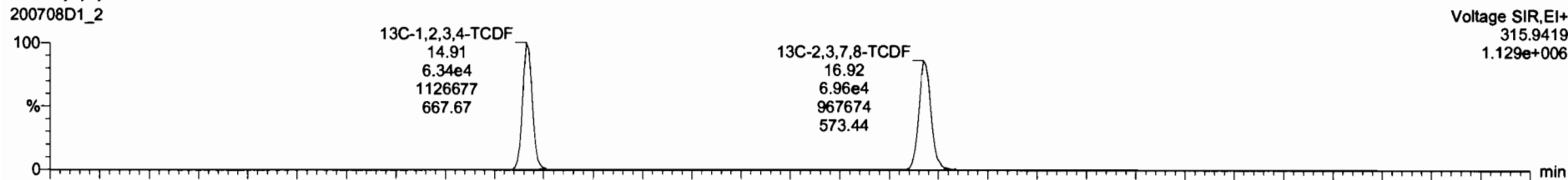
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Name: 200708D1_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF



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



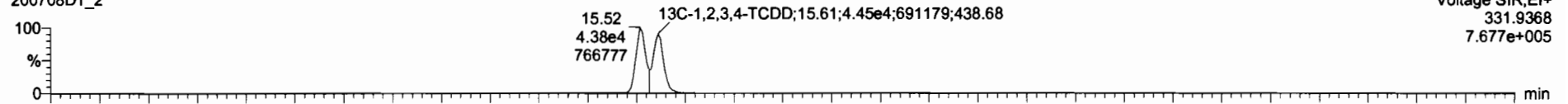
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Last Altered: Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time
Printed: Wednesday, July 08, 2020 11:11:31 Pacific Daylight Time

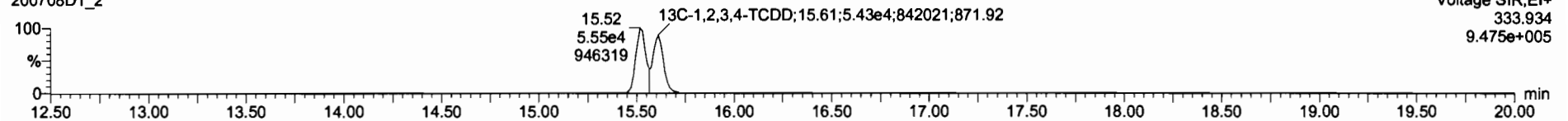
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13C-1,2,3,4-TCDD

200708D1_2

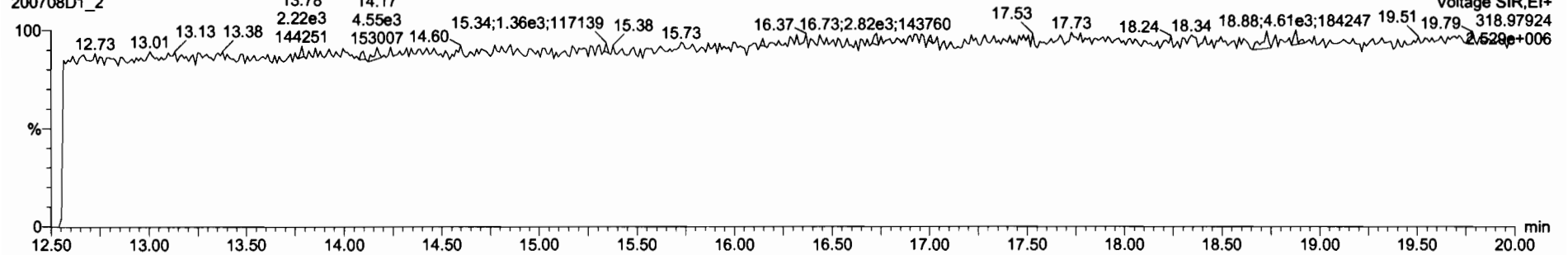


200708D1_2



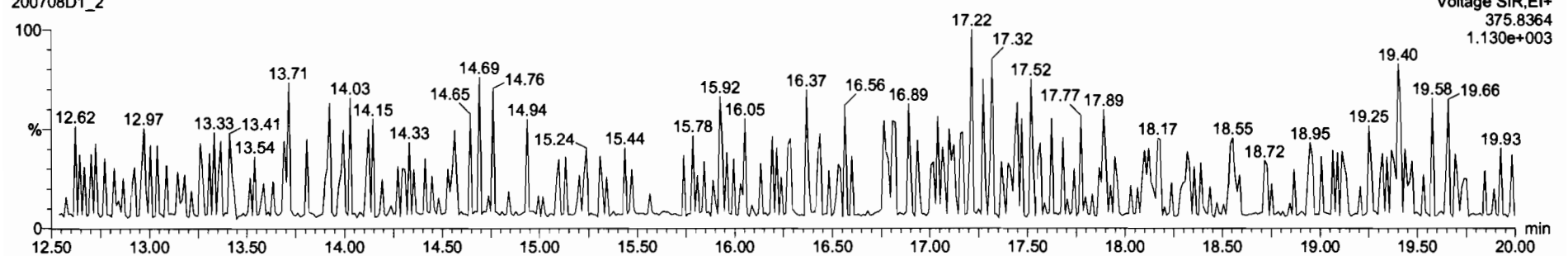
PFK1

200708D1_2



DPE1

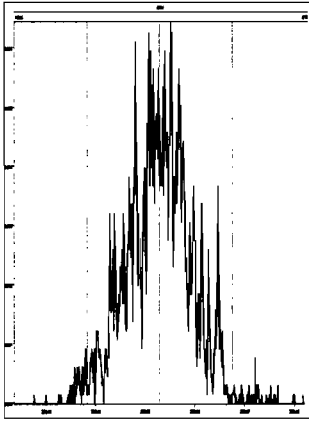
200708D1_2



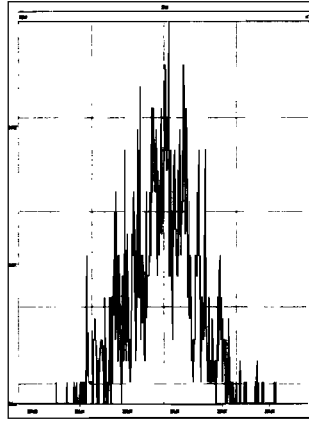
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Printed: Wednesday, July 08, 2020 21:16:53 Pacific Daylight Time

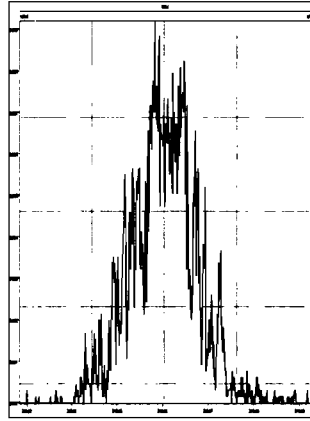
M 292.9824 R 11740



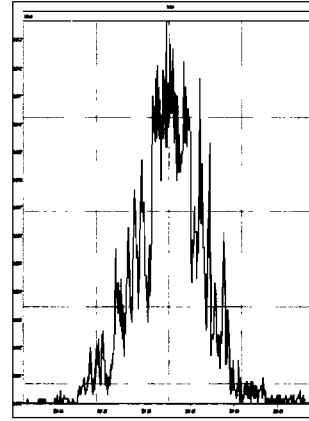
M 304.9824 R 12433



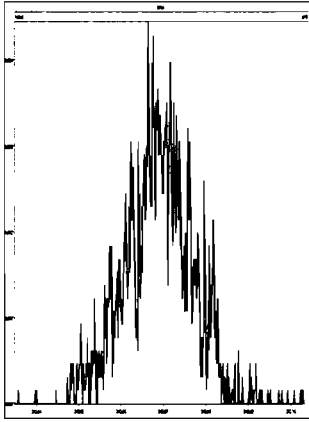
M 318.9792 R 12195



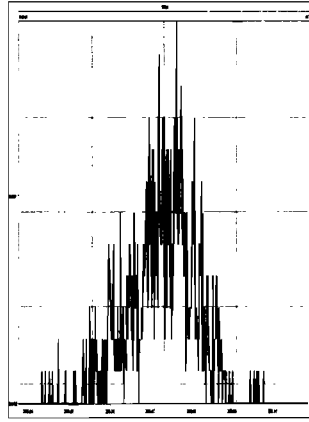
M 330.9792 R 11902



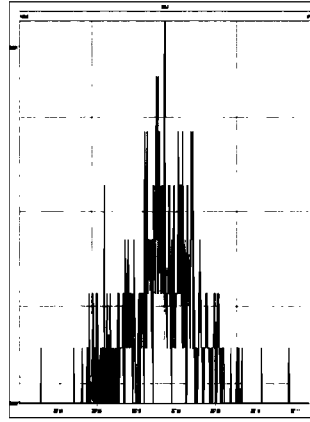
M 342.9792 R 11850



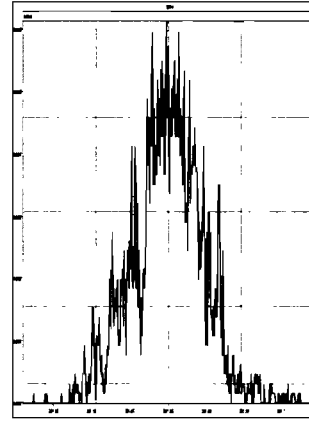
M 354.9792 R 13736



M 366.9792 R 15820



M 380.9760 R 10966



INITIAL CALIBRATION

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

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

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: 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

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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

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: 2,3,7,8-TCDF

Response Factor: 0.75098

RRF 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

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time
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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

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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

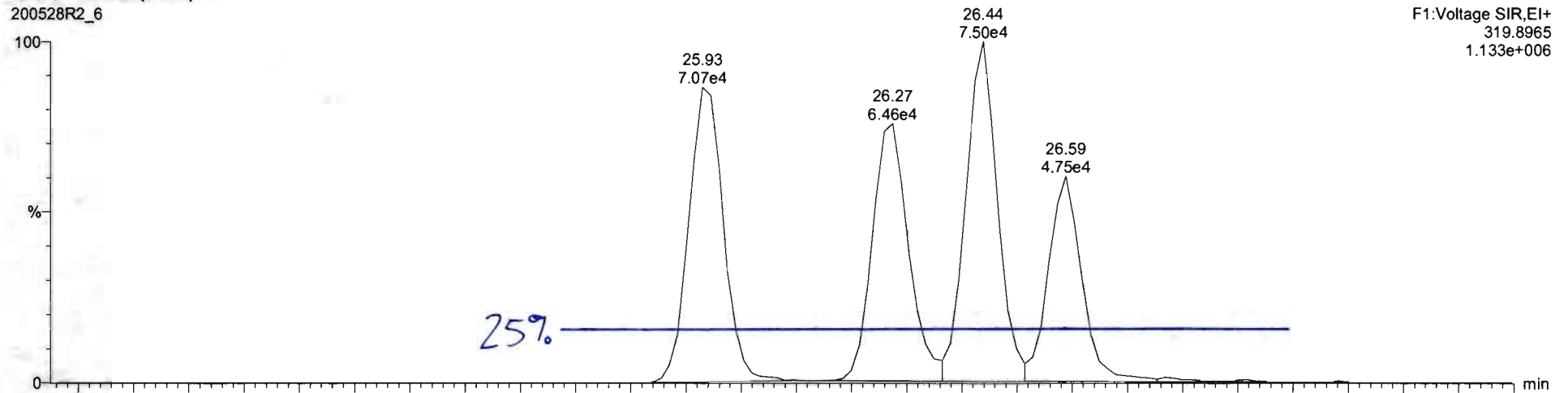
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

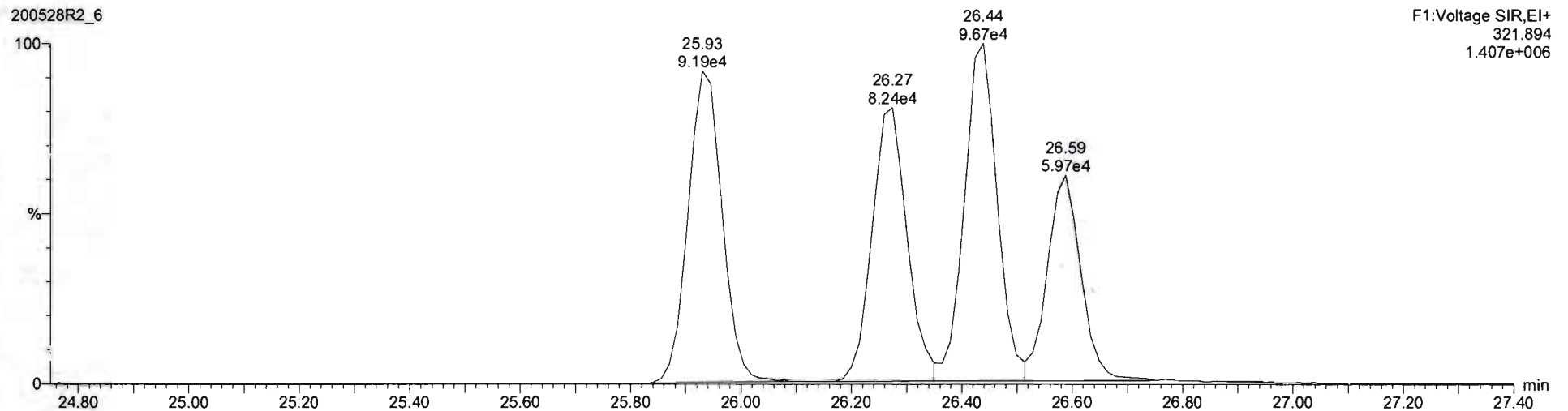
Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200528R2_6



200528R2_6



Vista Analytical Laboratory VG-11

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

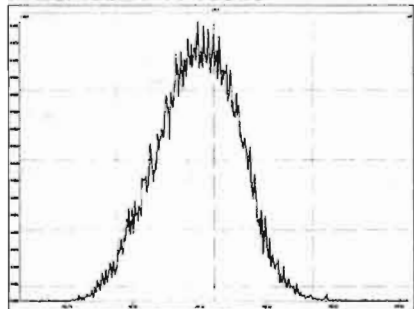
Experiment Calibration Report

MassLynx 4.1 SCN815

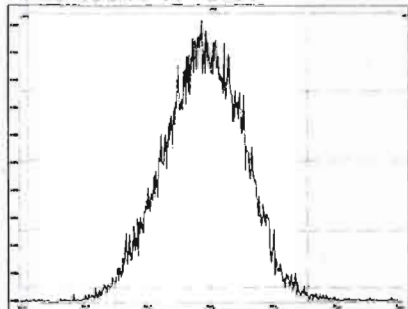
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Printed: Thursday, May 28, 2020 11:48:59 Pacific Daylight Time

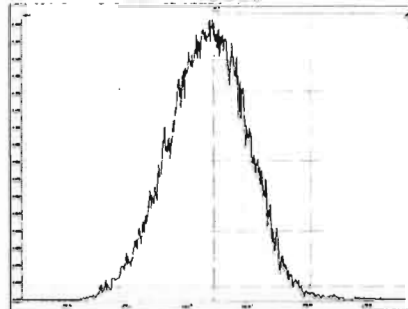
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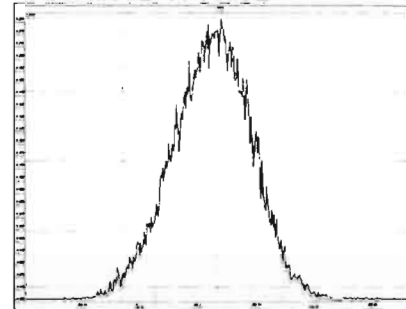
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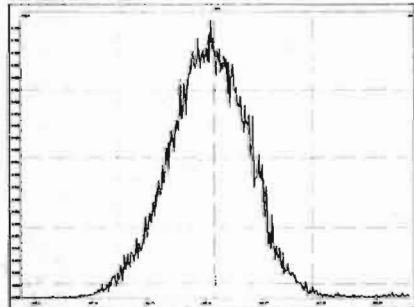
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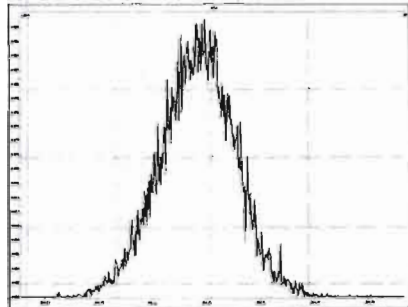
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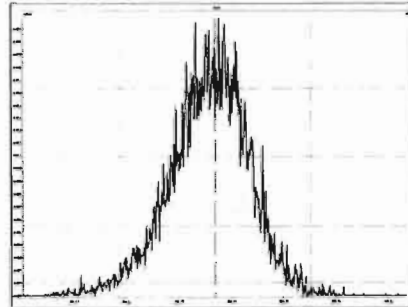
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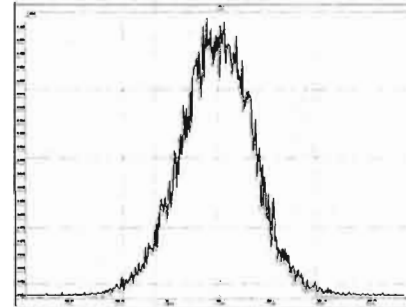
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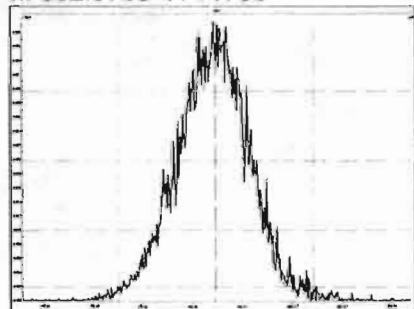
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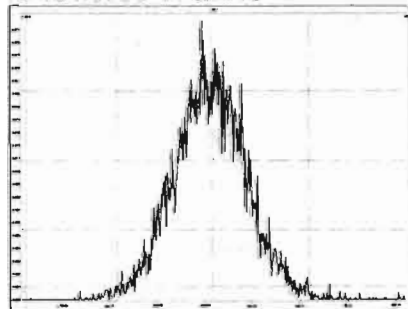
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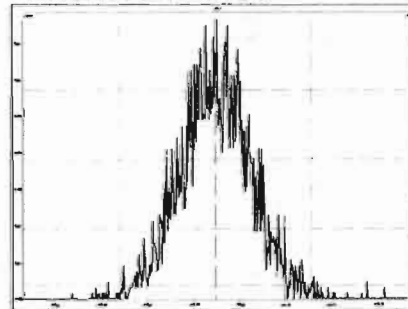
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M 404.9760 R 12316



M 416.9760 R 12754



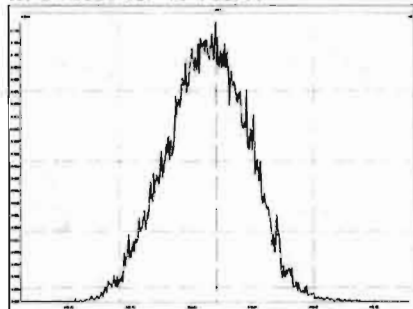
Experiment Calibration Report

MassLynx 4.1 SCN815

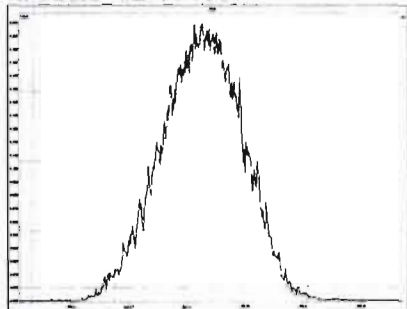
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Printed: Thursday, May 28, 2020 11:49:33 Pacific Daylight Time

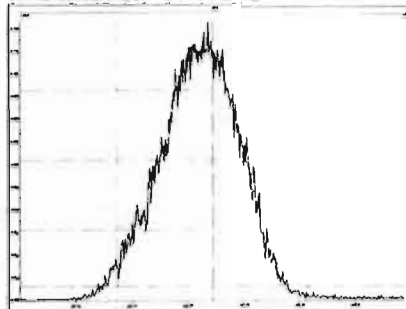
M 318.9792 R 10247



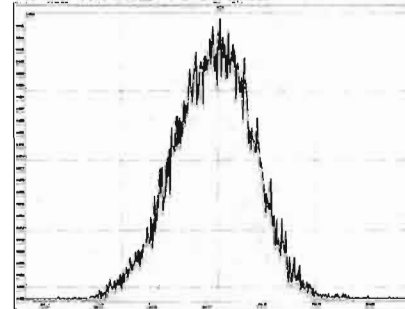
M 330.9792 R 10372



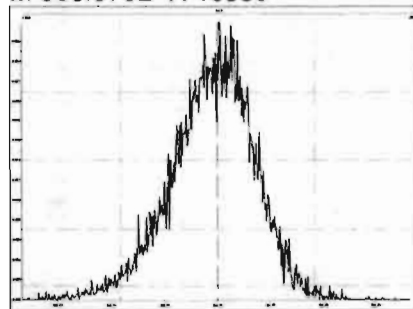
M 342.9792 R 10370



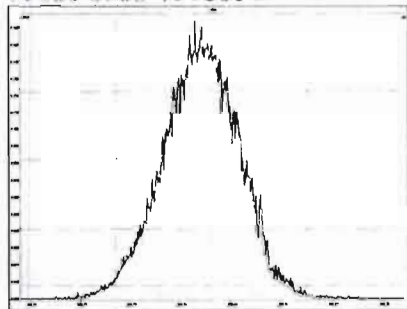
M 354.9792 R 10822



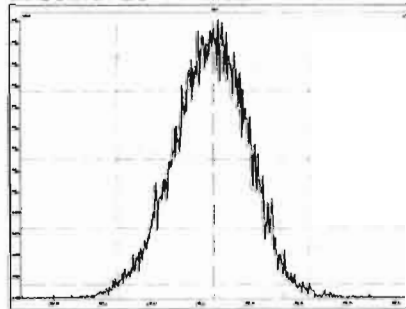
M 366.9792 R 10963



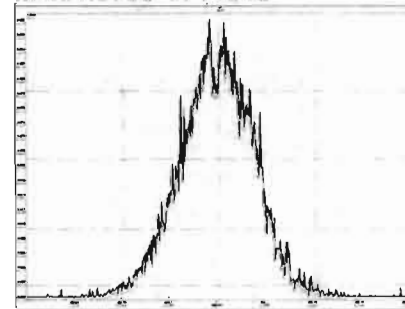
M 380.9760 R 10594



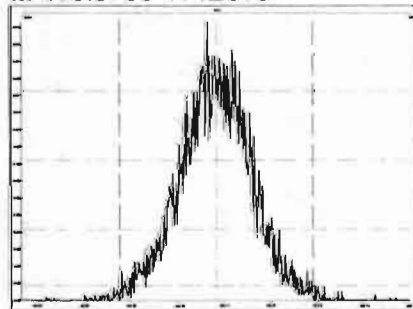
M 392.9760 R 10821



M 404.9760 R 11845



M 416.9760 R 12018



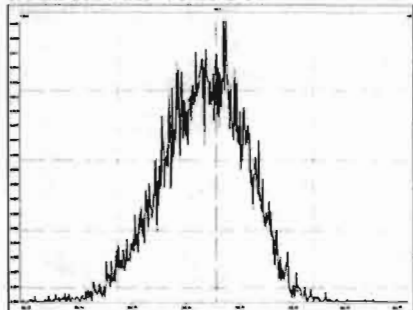
Experiment Calibration Report

MassLynx 4.1 SCN815

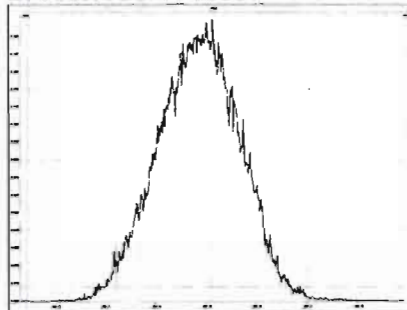
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:50:12 Pacific Daylight Time

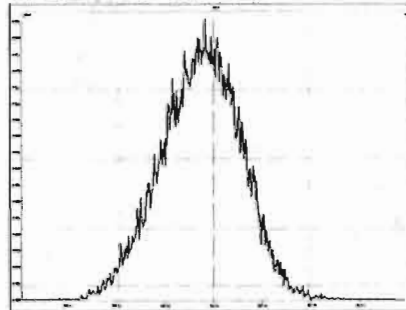
M 366.9792 R 10641



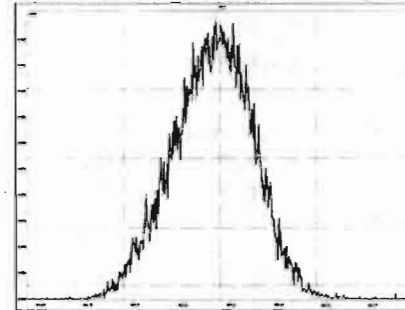
M 380.9760 R 10331



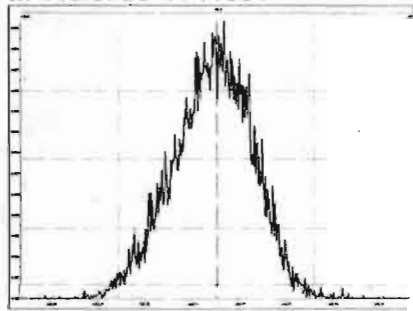
M 392.9760 R 10459



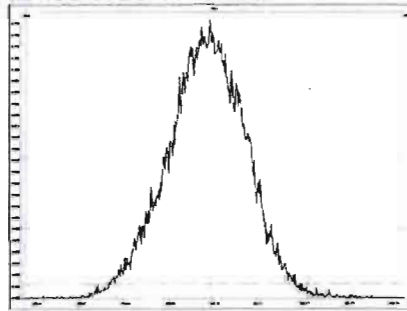
M 404.9760 R 10505



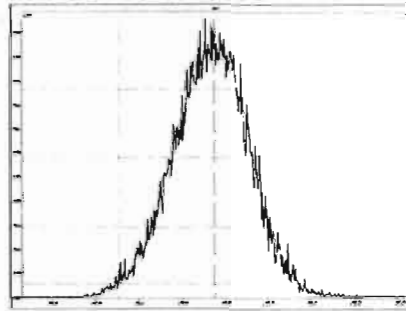
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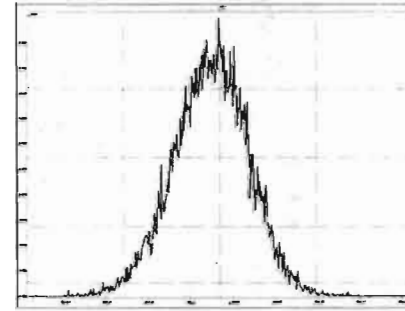
M 430.9728 R 10290



M 442.9728 R 10593



M 454.9728 R 10919



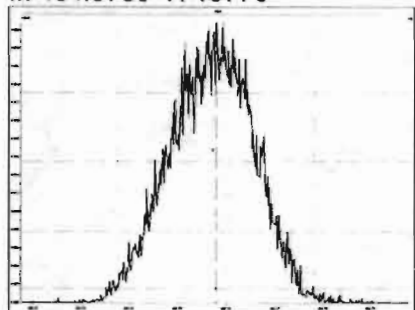
Experiment Calibration Report

MassLynx 4.1 SCN815

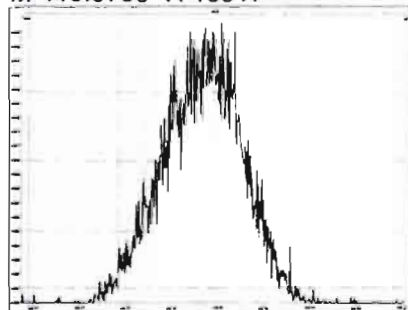
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Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time

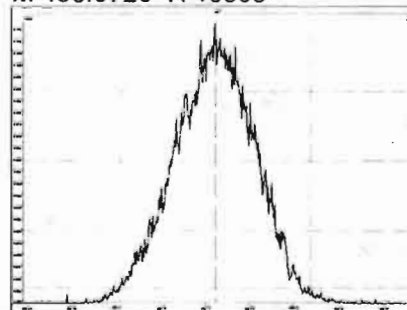
M 404.9760 R 10778



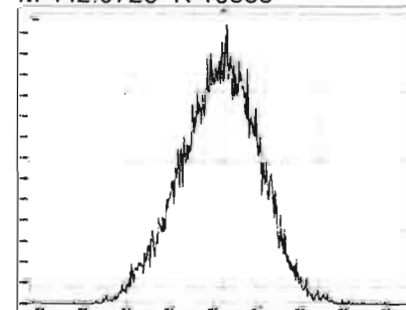
M 416.9760 R 10917



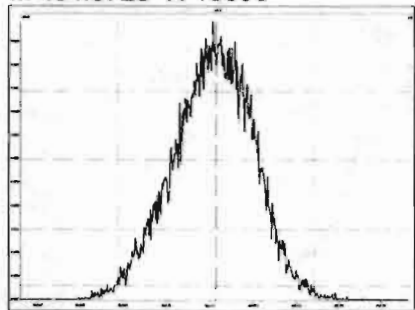
M 430.9728 R 10503



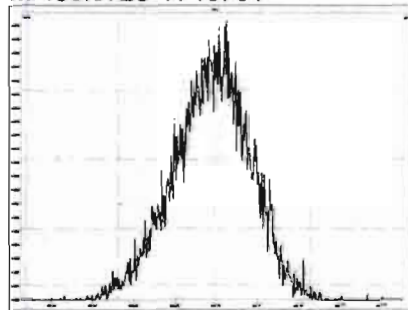
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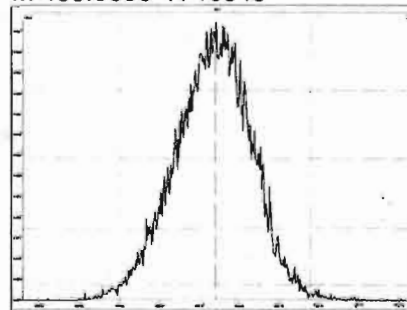
M 454.9728 R 10638



M 466.9728 R 10731



M 480.9696 R 10545



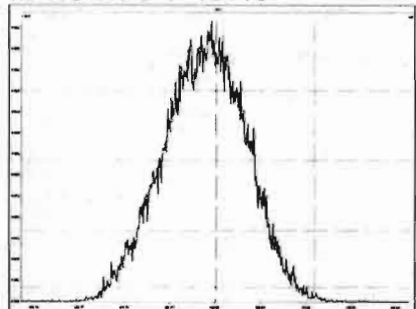
Experiment Calibration Report

MassLynx 4.1 SCN815

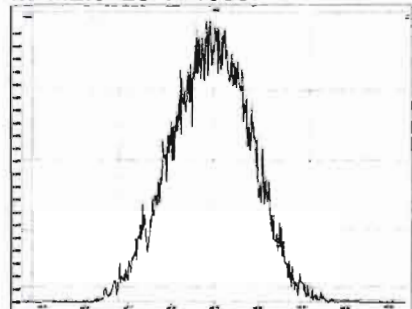
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Printed: Thursday, May 28, 2020 11:51:45 Pacific Daylight Time

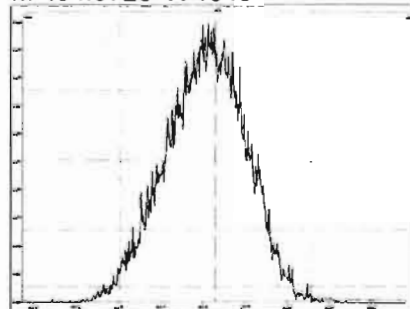
M 430.9728 R 10118



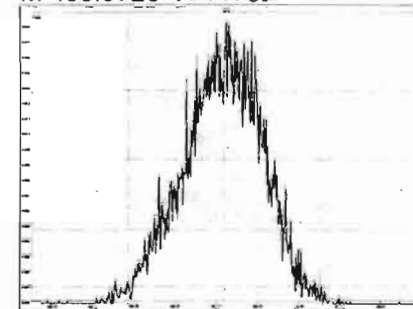
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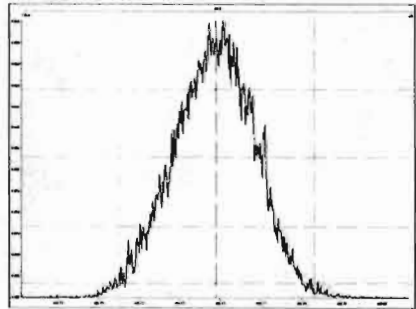
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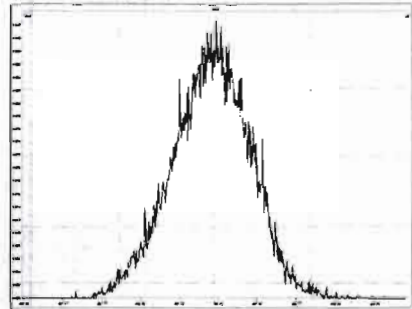
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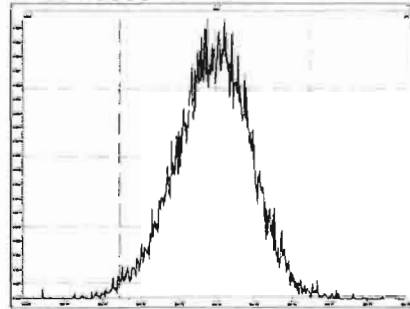
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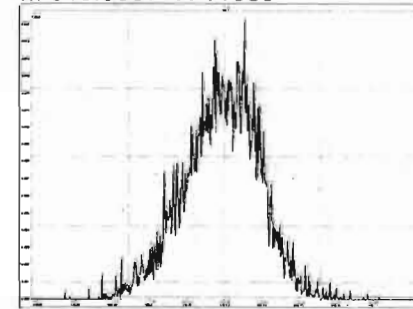
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M 504.9696 R 10729



M 516.9697 R 11683



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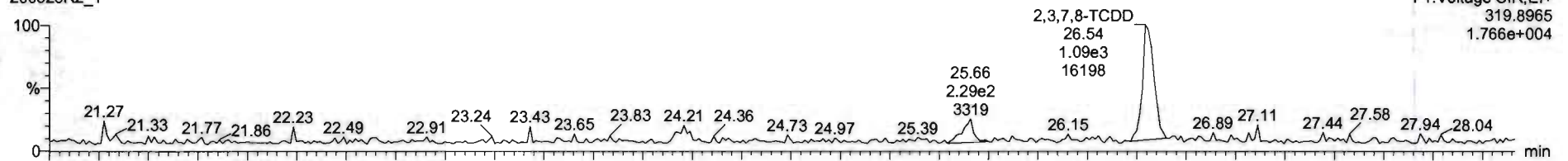
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Calibration: 29 May 2020 07:49:30

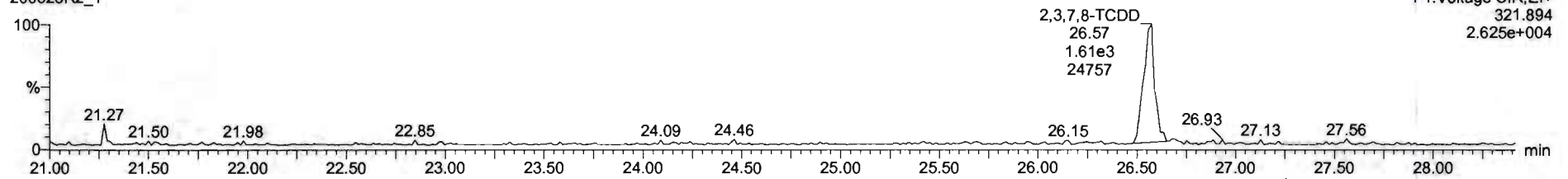
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2,3,7,8-TCDD

200528R2_1

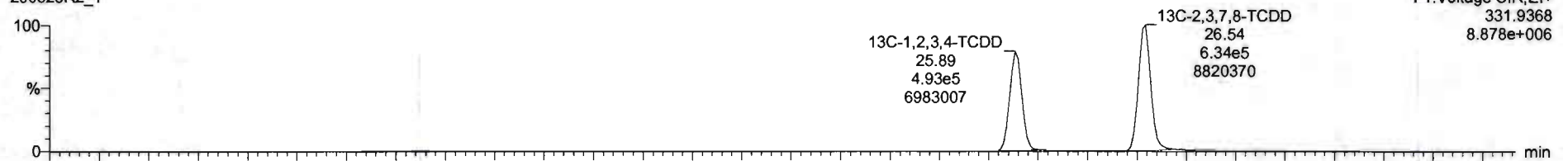


200528R2_1

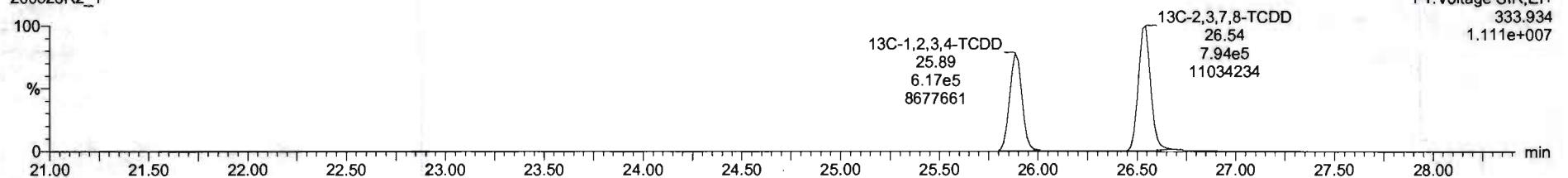


13C-2,3,7,8-TCDD

200528R2_1



200528R2_1



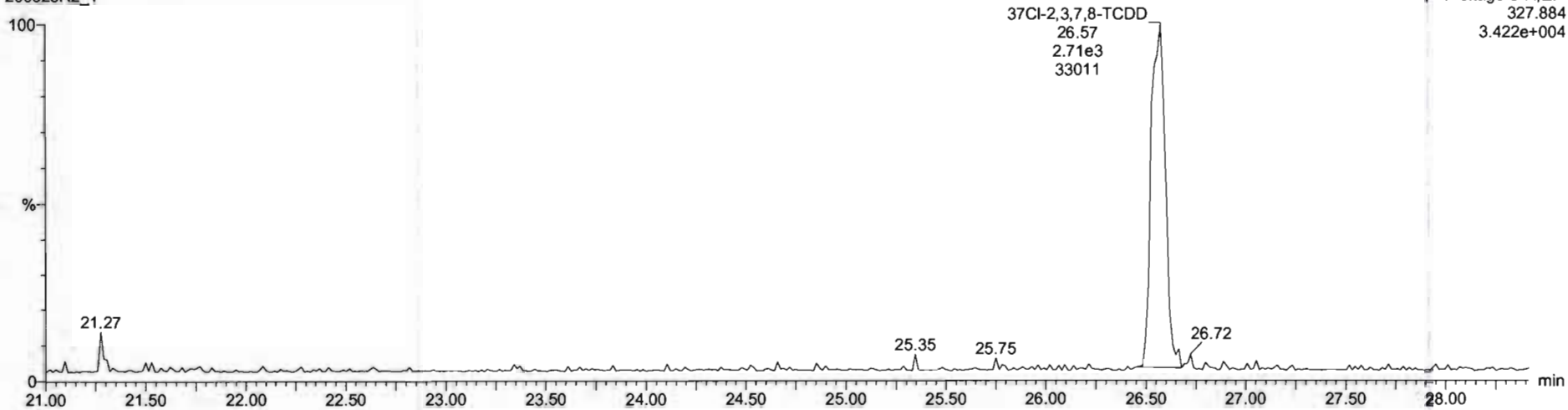
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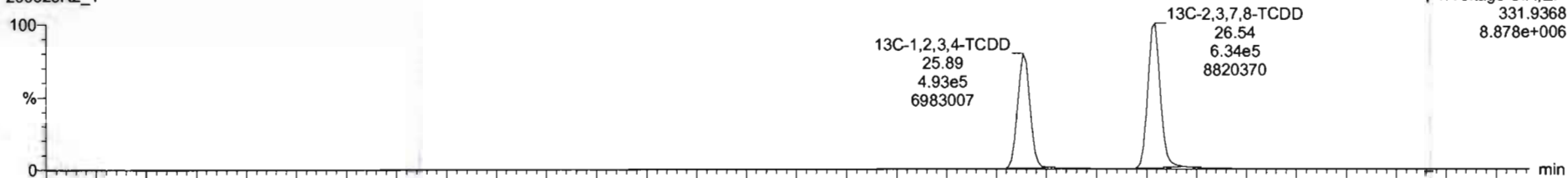
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F1: Voltage SIR, EI+
327.884
3.422e+004

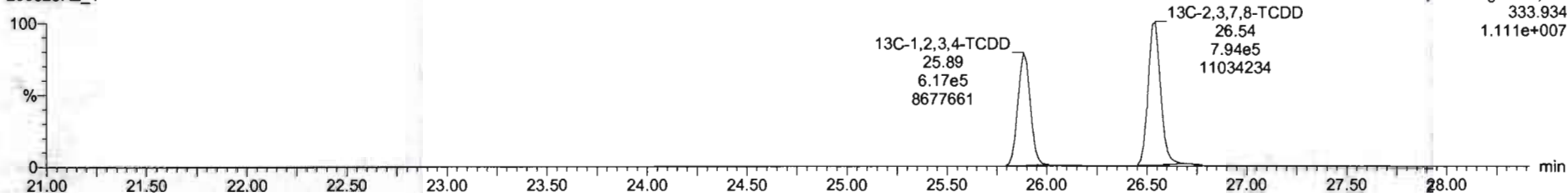
13C-1,2,3,4-TCDD

200528R2_1



F1: Voltage SIR, EI+
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200528R2_1



F1: Voltage SIR, EI+
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1.111e+007

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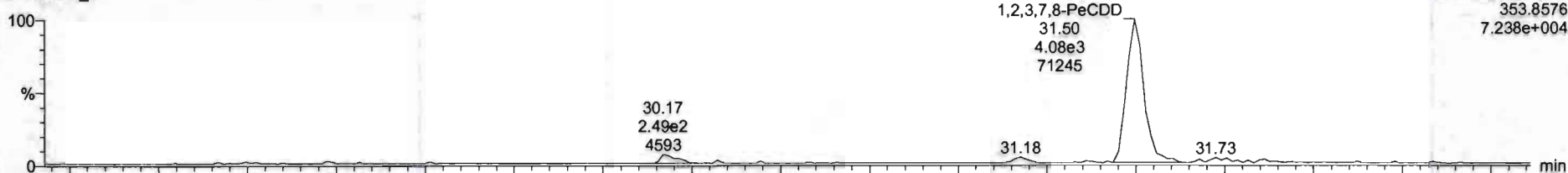
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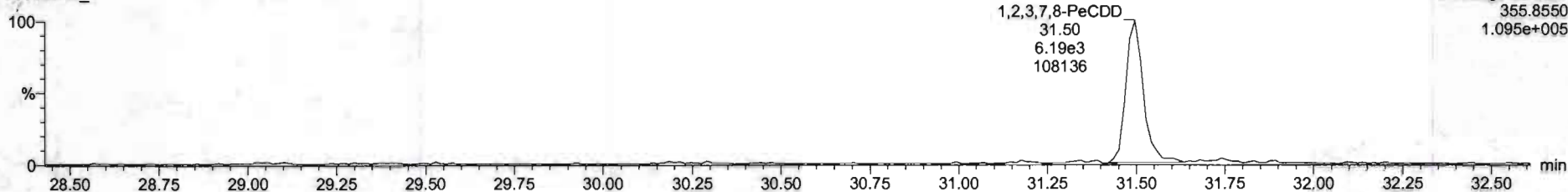
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1,2,3,7,8-PeCDD

200528R2_1

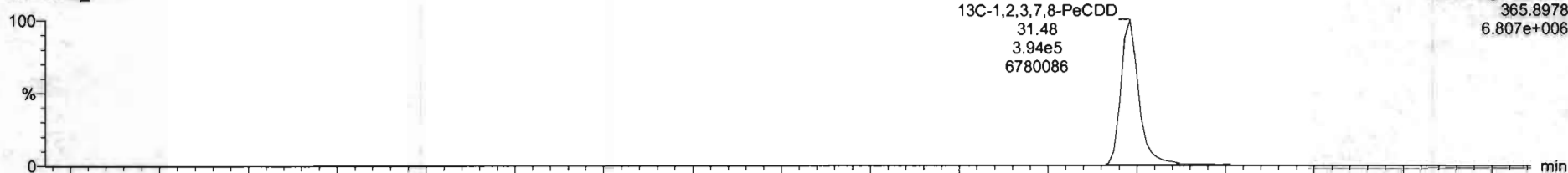


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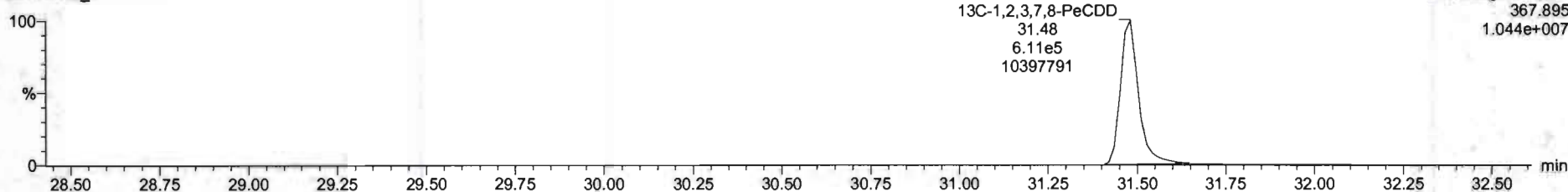


13C-1,2,3,7,8-PeCDD

200528R2_1



200528R2_1



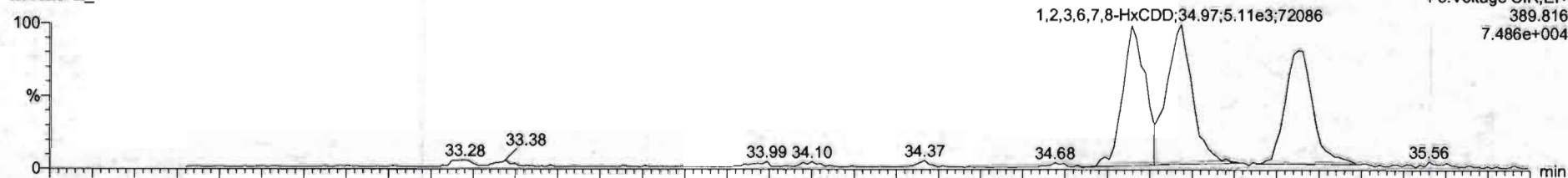
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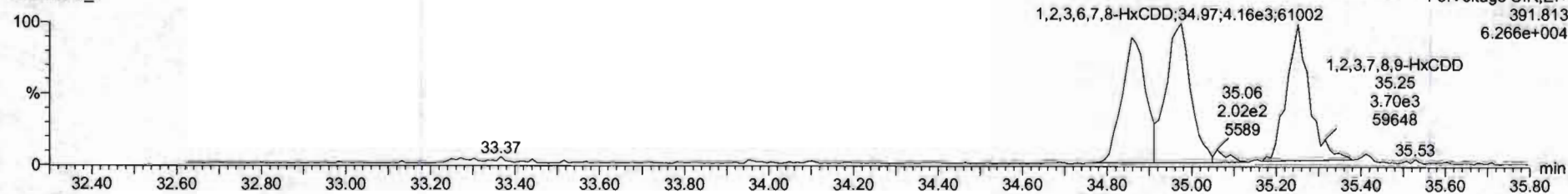
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1,2,3,4,7,8-HxCDD

200528R2_1

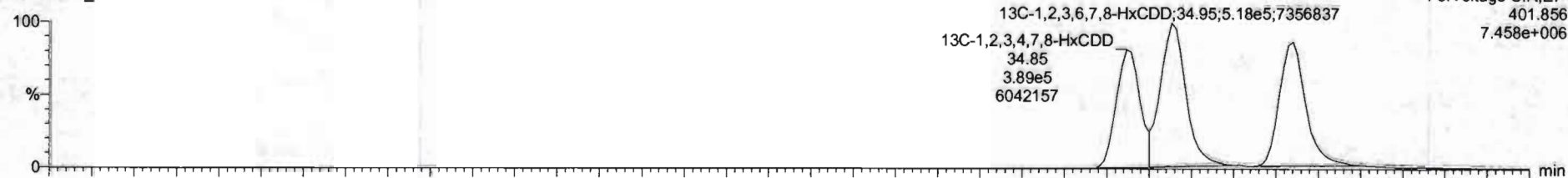


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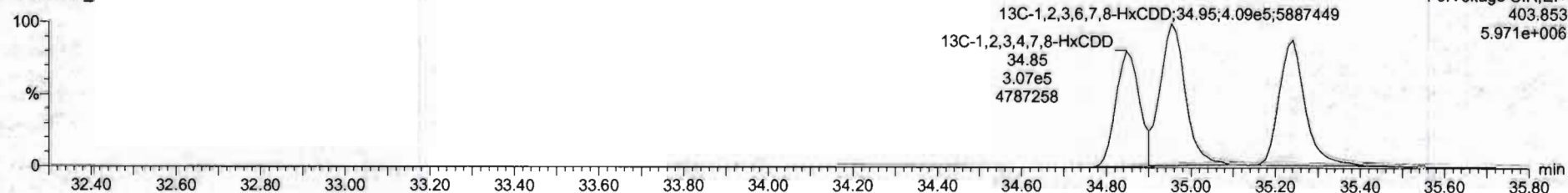


13C-1,2,3,4,7,8-HxCDD

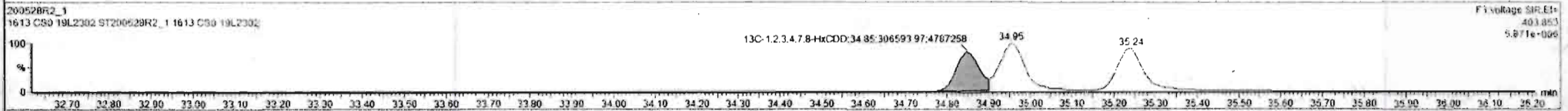
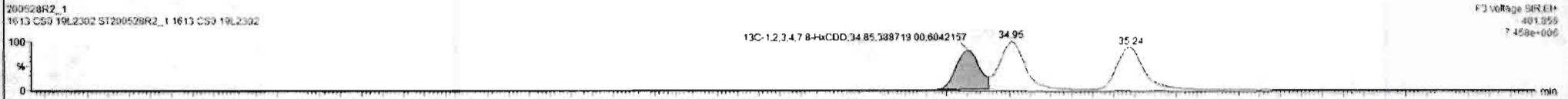
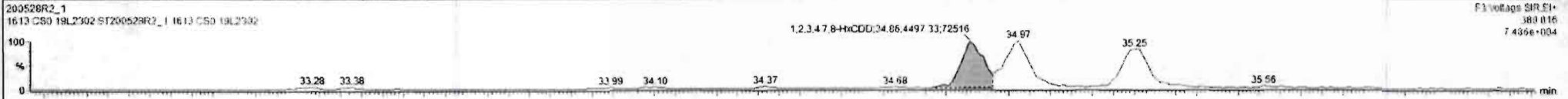
200528R2_1



200528R2_1



#	Name	Resp	RA	Qty	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	1,2,3,4,7,8-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	1.00e6	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	108	108	0.243	



Custom Reporting: Select reports to generate

200528R2_1 CAP NUM

7:54 AM

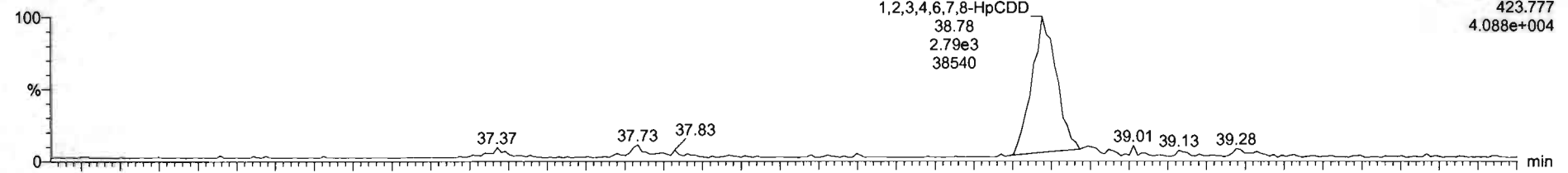
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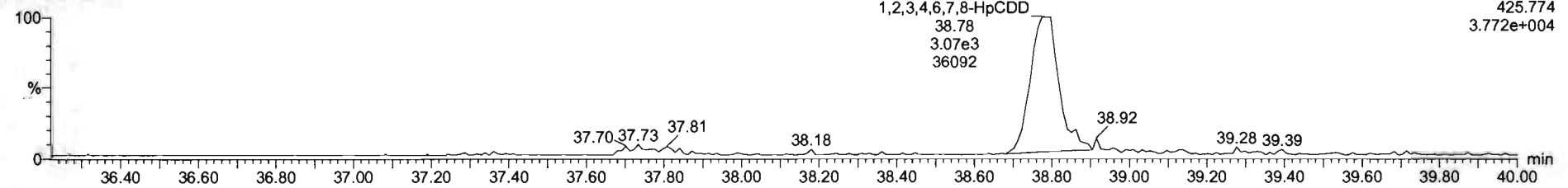
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1,2,3,4,6,7,8-HpCDD

200528R2_1

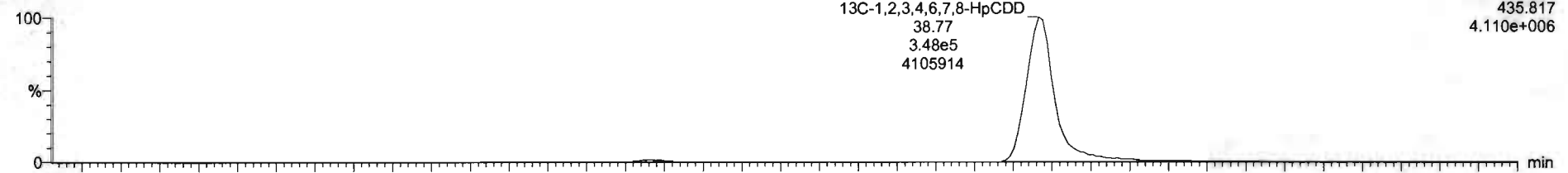


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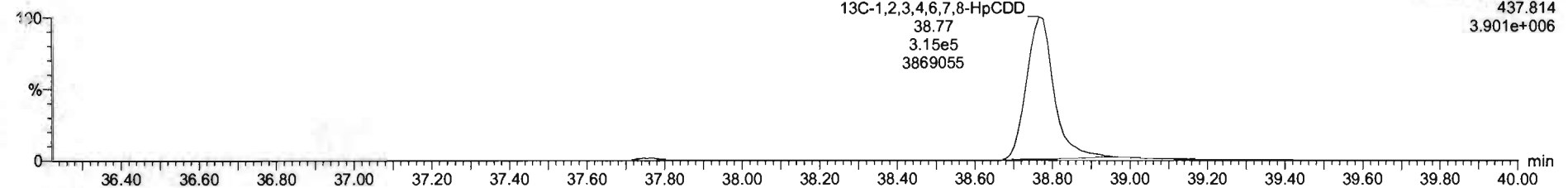


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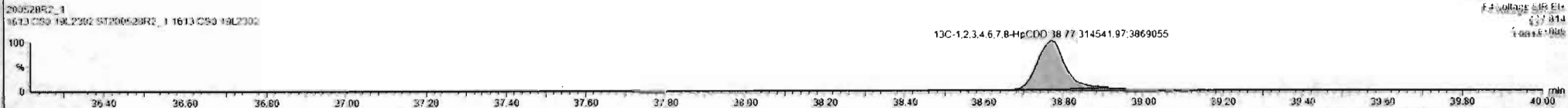
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200528R2_1



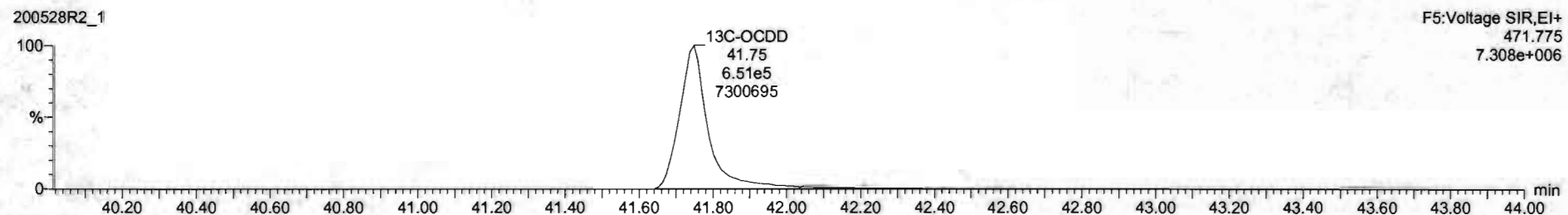
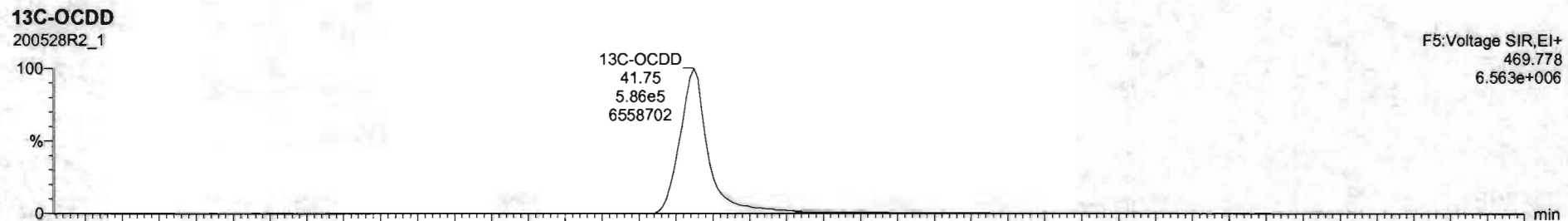
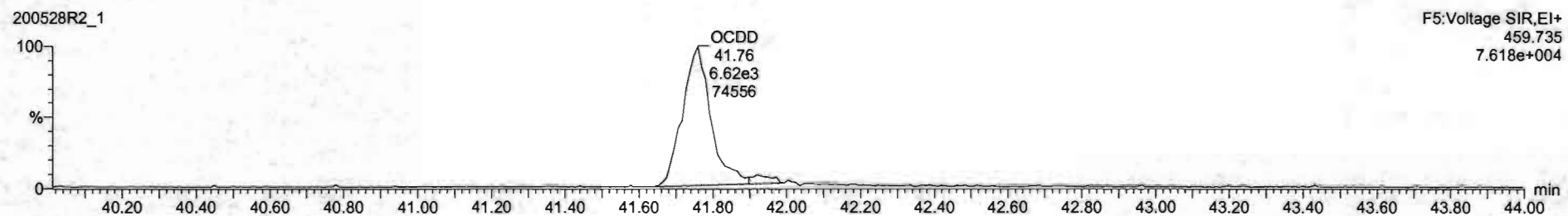
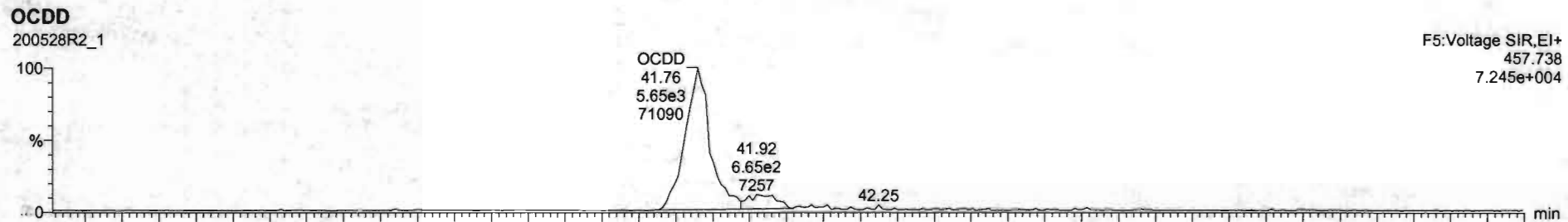
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1	2,3,7,8-TCDD	2.70e3	0.58	NO	0.8583	1.000	26.54	1.000	0.212	88.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0282	1.12
3	1,2,3,4,7,8-HxCDD	5.02e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	69.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	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	88.2	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	39.33	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	



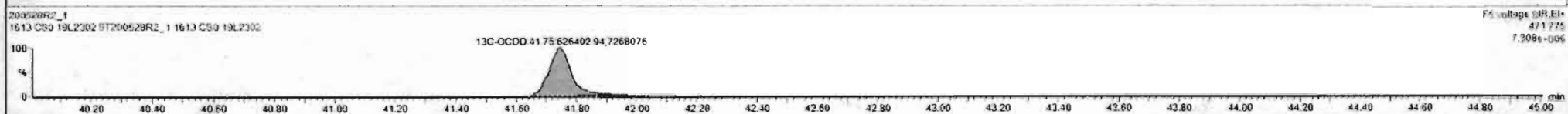
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Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



#	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	



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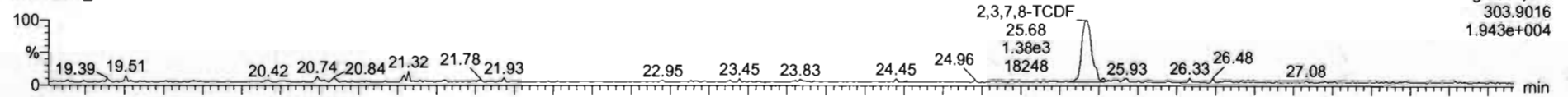
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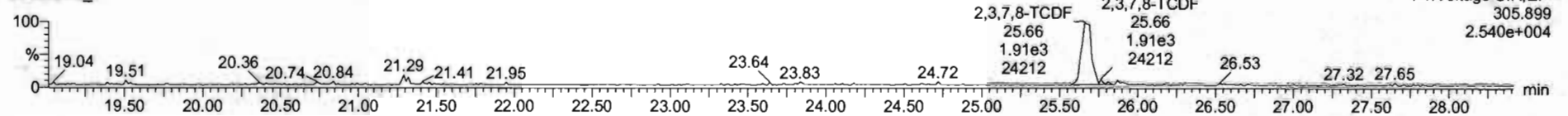
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2,3,7,8-TCDF

200528R2_1

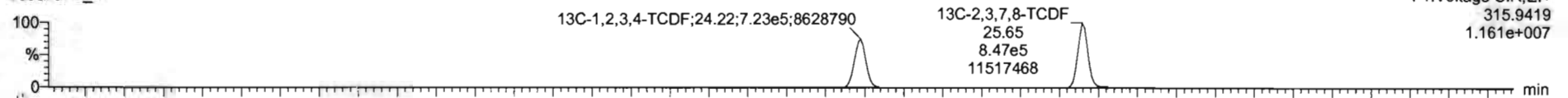


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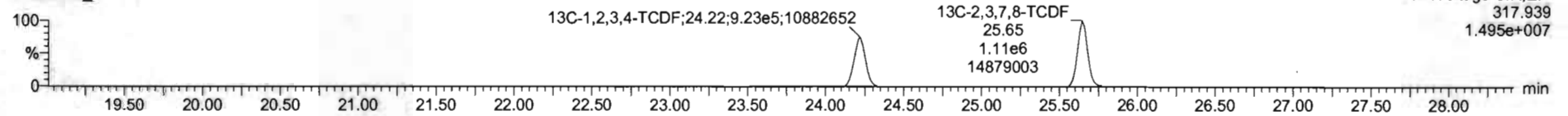


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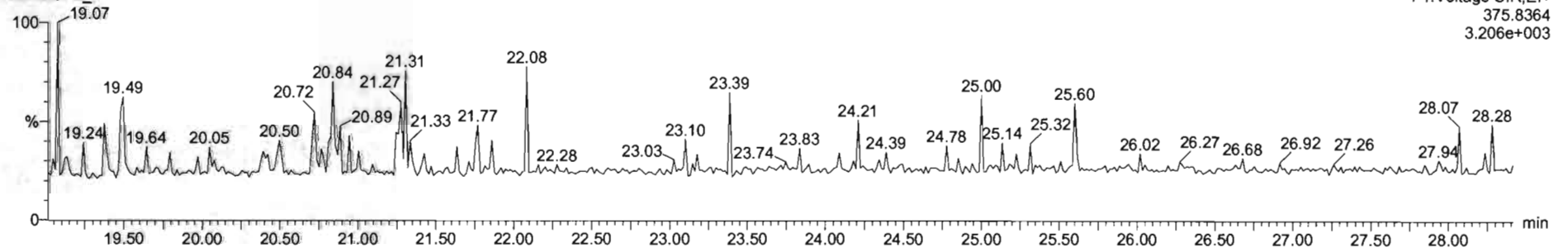


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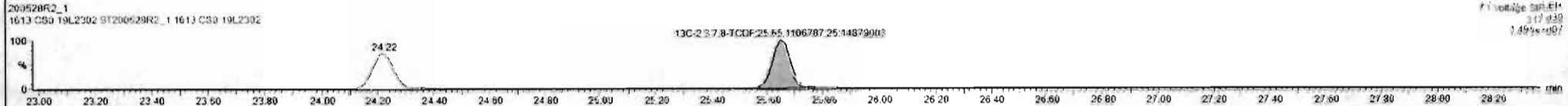
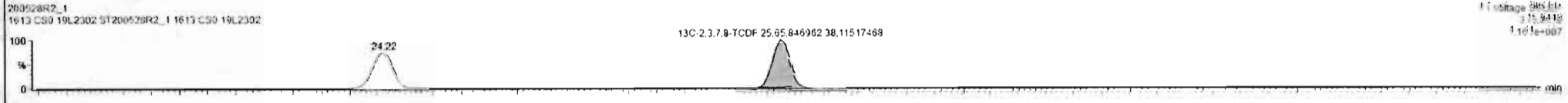
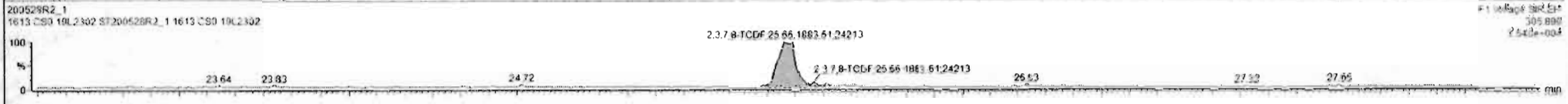
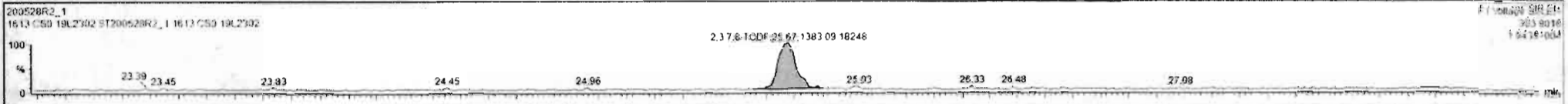


DPE1

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	1.000	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	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

7:54 AM

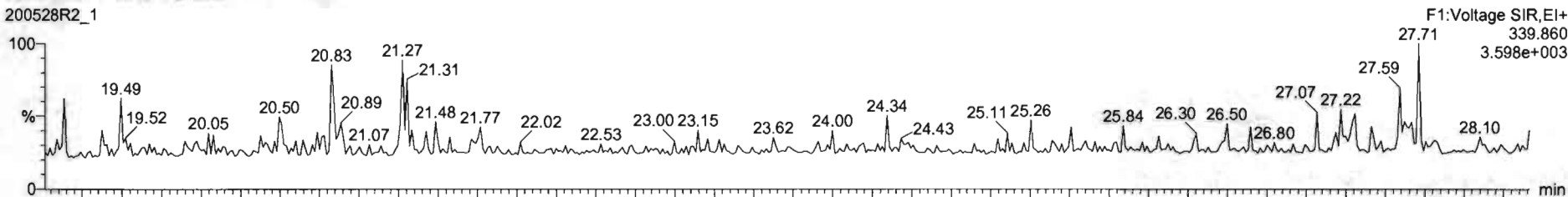
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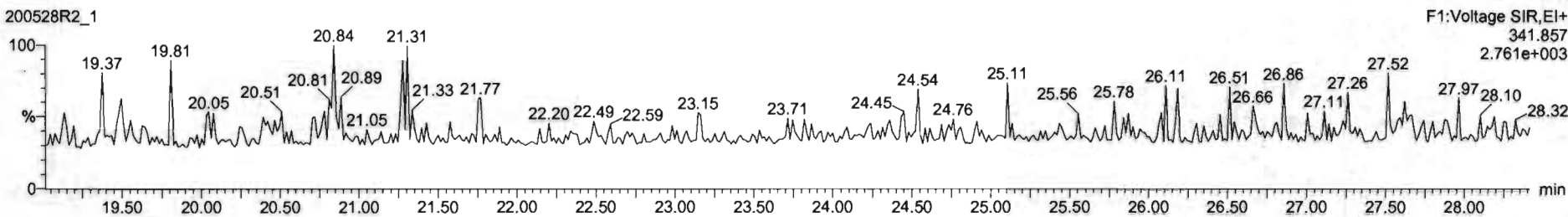
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1st Func. Penta-Furans

200528R2_1

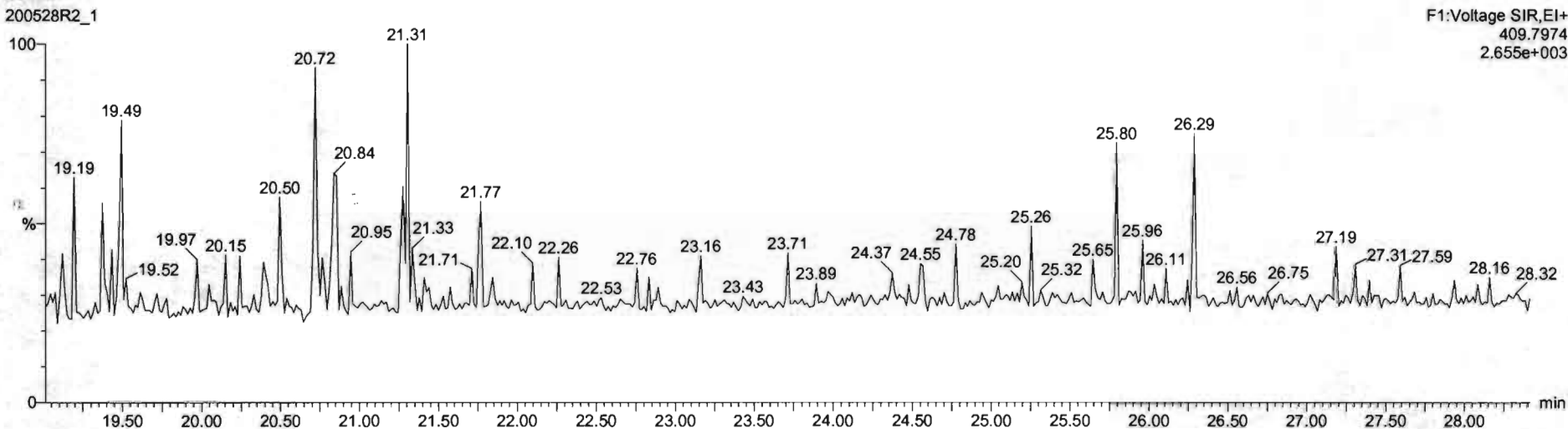


200528R2_1



DPE6

200528R2_1



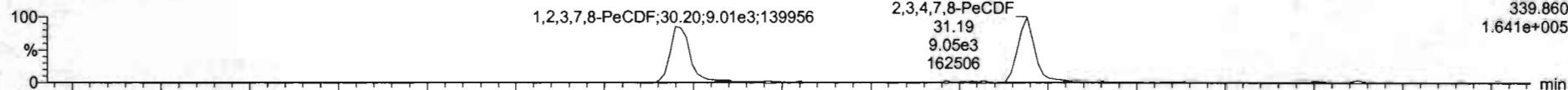
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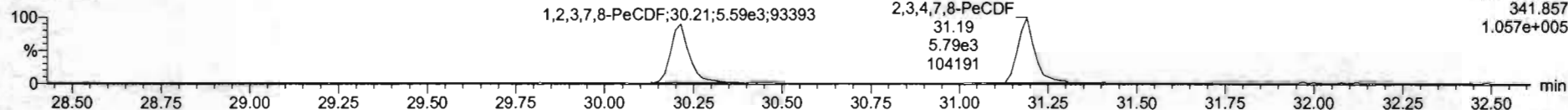
1,2,3,7,8-PeCDF

200528R2_1



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1.641e+005

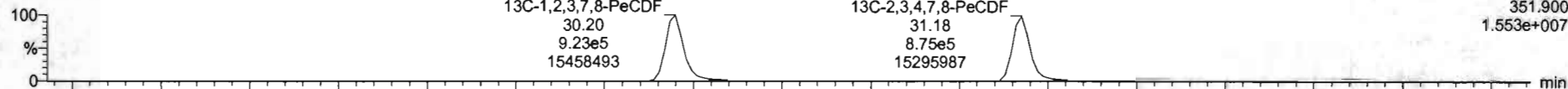
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F2:Voltage SIR,EI+
341.857
1.057e+005

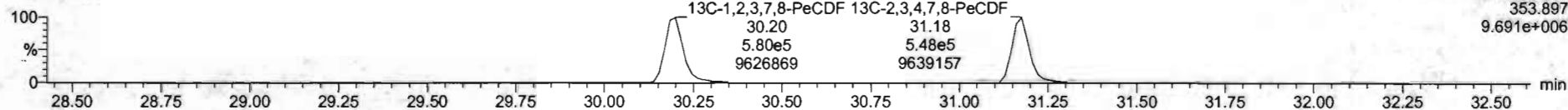
13C-1,2,3,7,8-PeCDF

200528R2_1



F2:Voltage SIR,EI+
351.900
1.553e+007

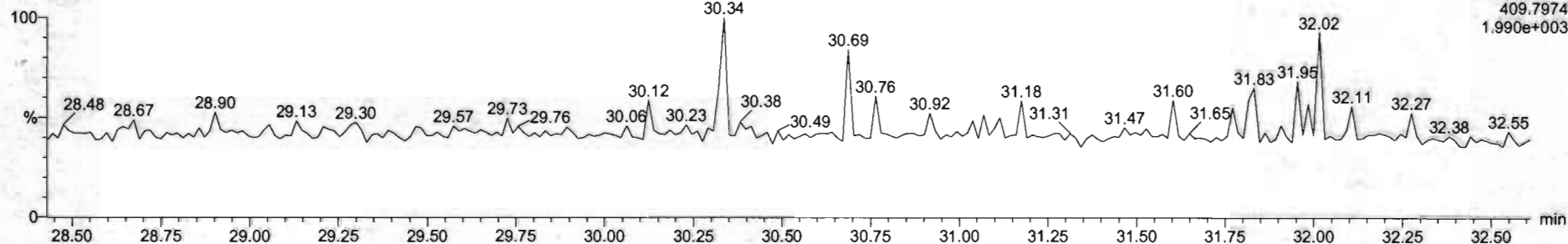
200528R2_1



F2:Voltage SIR,EI+
353.897
9.691e+006

DPE2

200528R2_1



F2:Voltage SIR,EI+
409.7974
1.990e+003

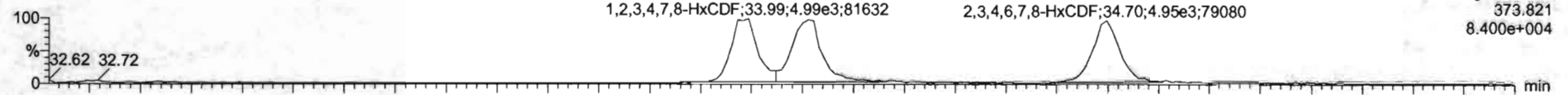
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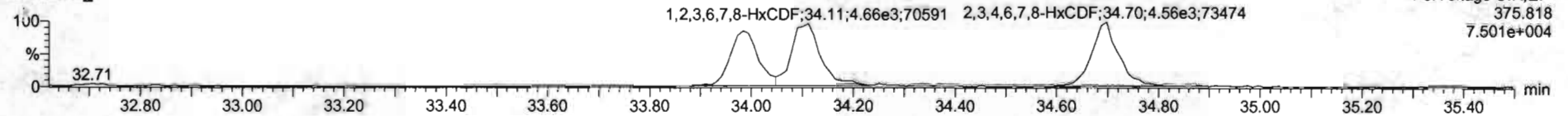
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1,2,3,4,7,8-HxCDF

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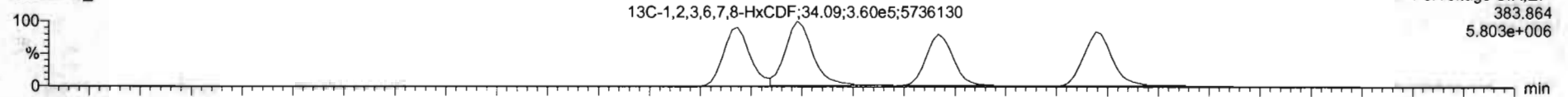


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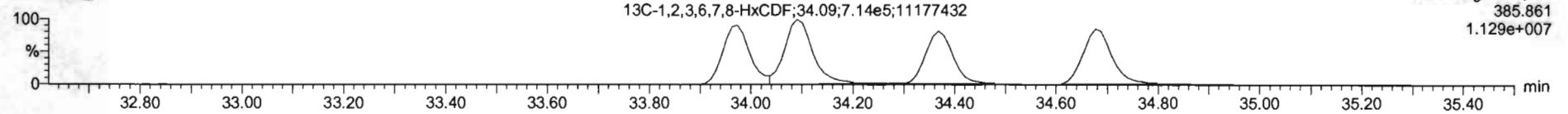


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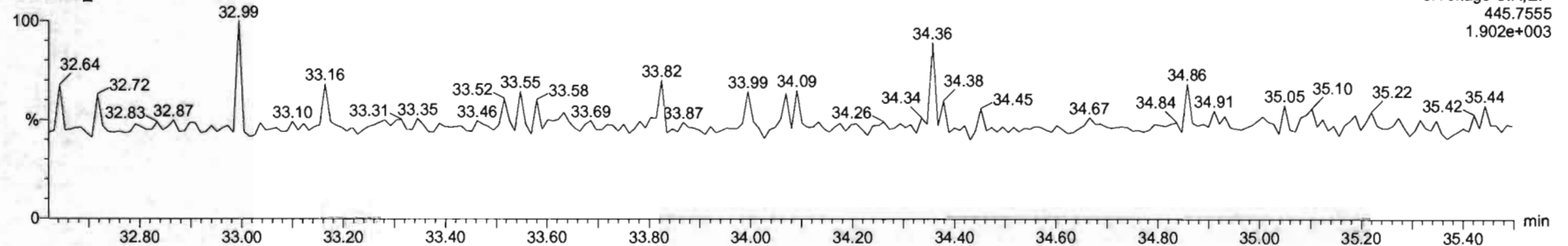


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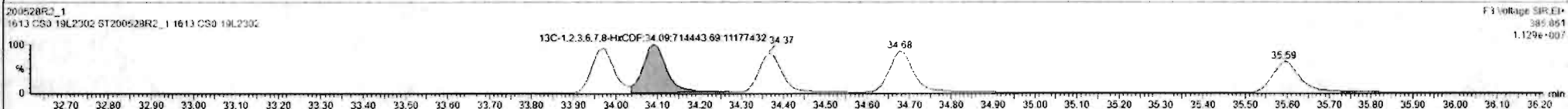
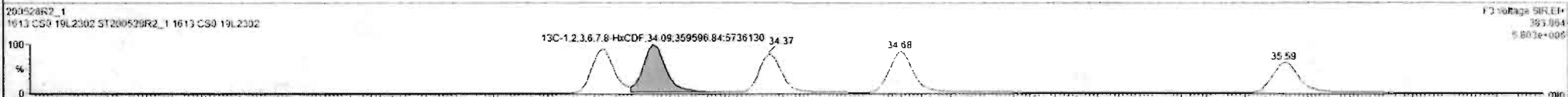
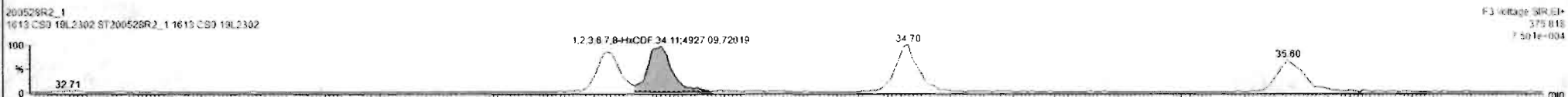
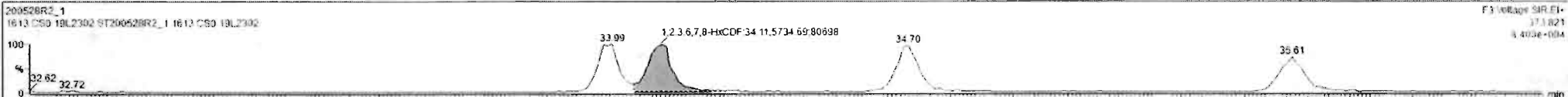


DPE3

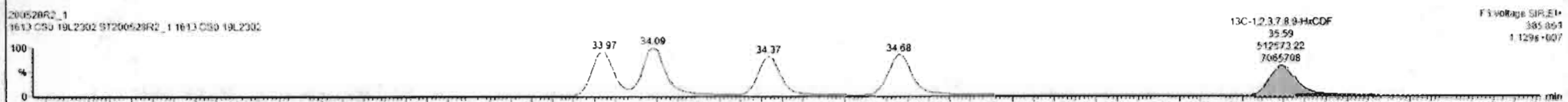
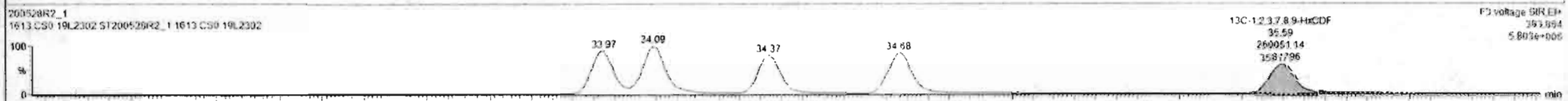
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Name	Resp	RA	inj	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.58	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6051	1.000	31.50	1.000	1.12	90.0	0.0292	1.12
3 1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0324	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	28.67	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	1.000	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	0.0682	
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	1,2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8,9-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	

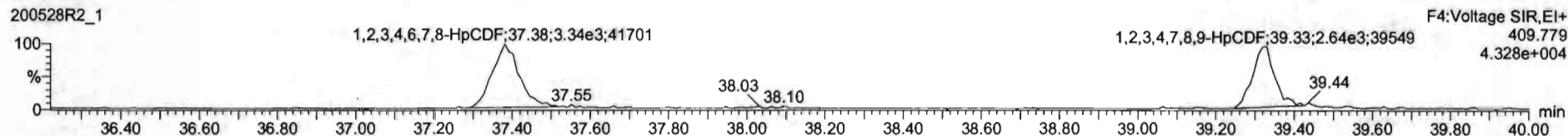
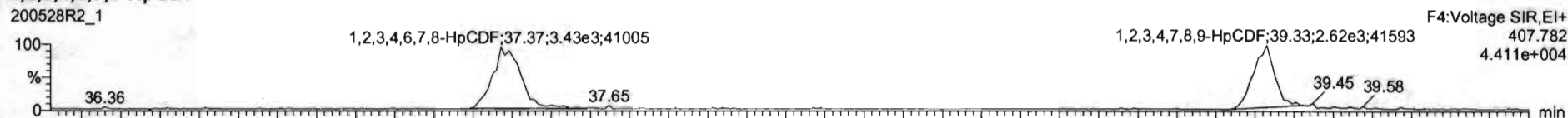


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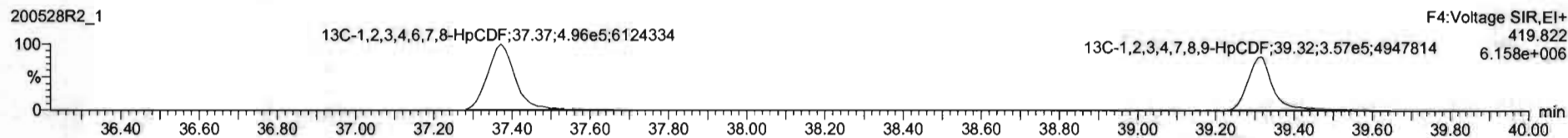
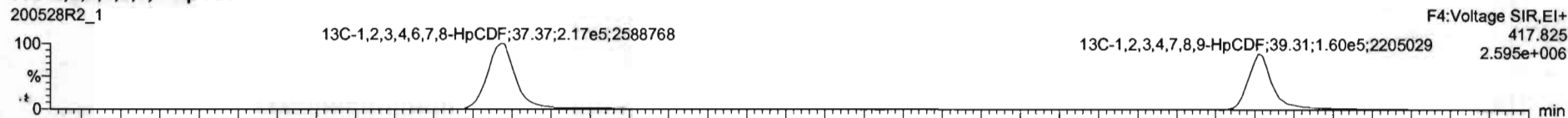
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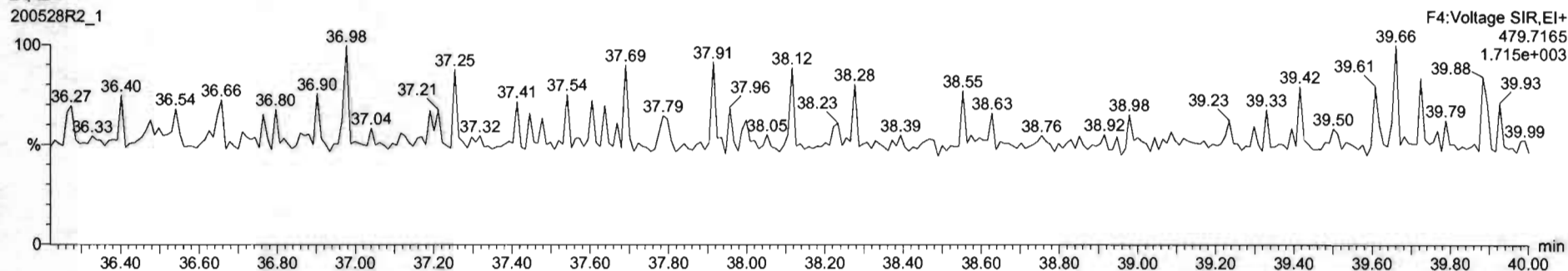
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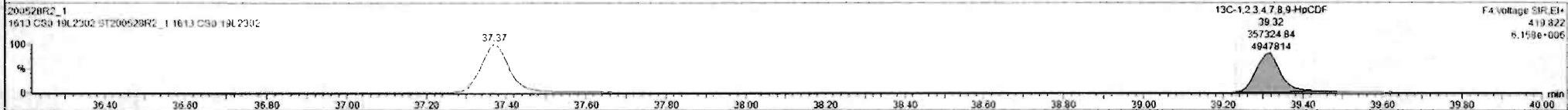
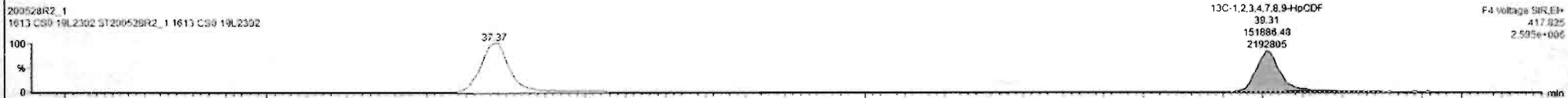
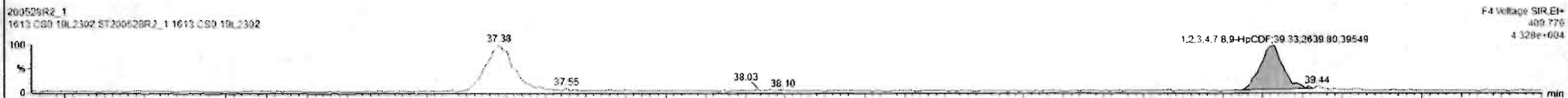
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CPE4



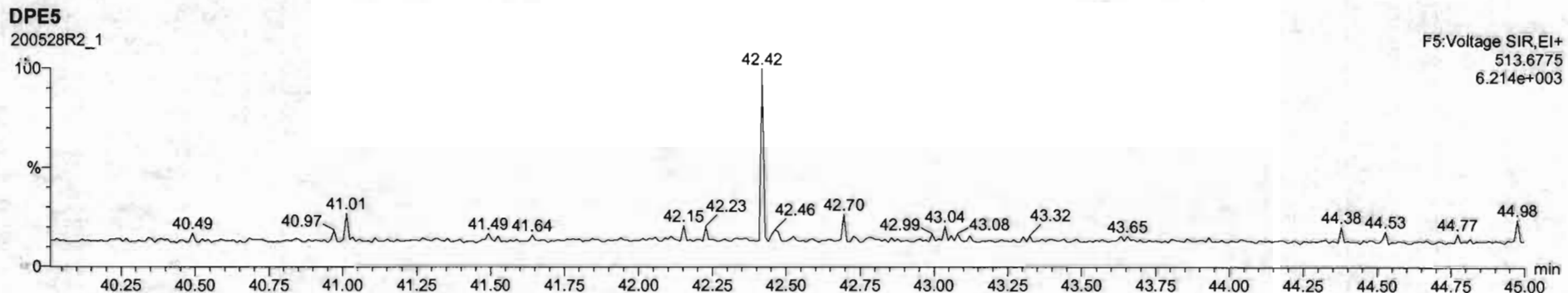
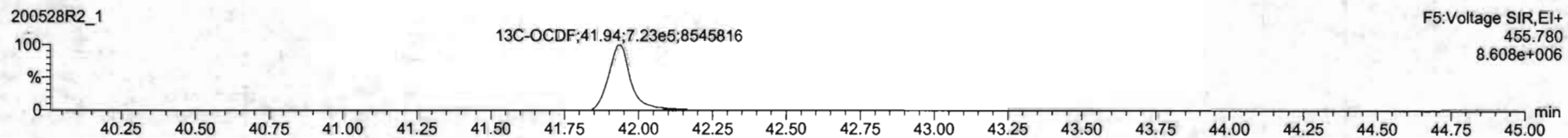
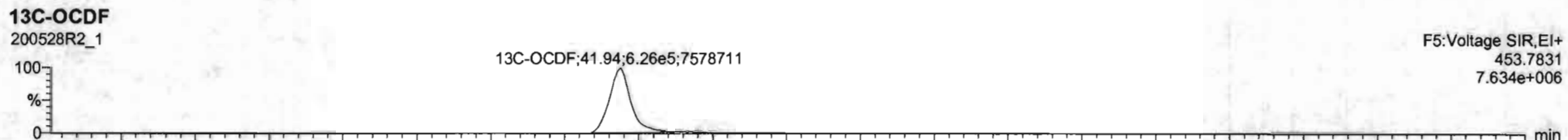
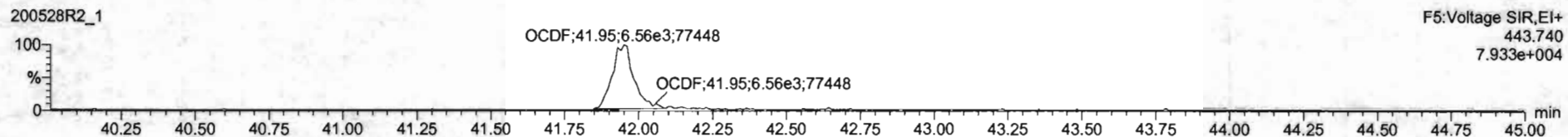
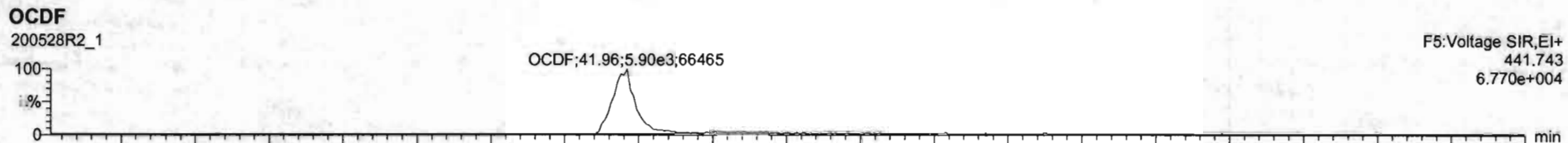
Name	Resp	RA	nBy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.79e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	8.02e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	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	0.8269	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	0.8639	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	90.0	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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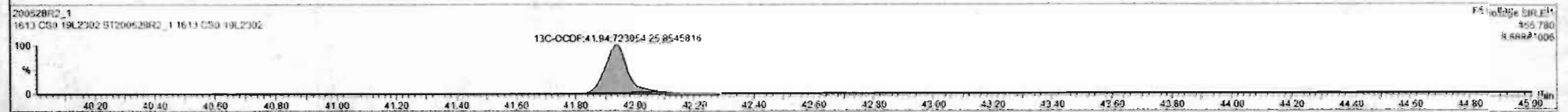
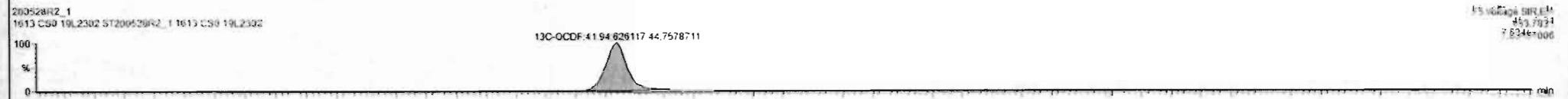
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200528R2_1 1613 CS0 19L2302-1 1613 CS0 19L2302

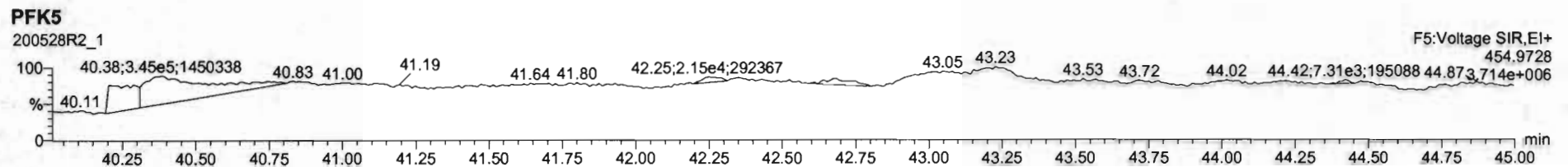
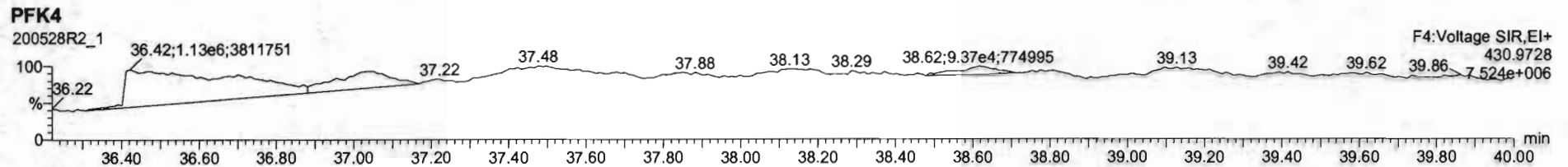
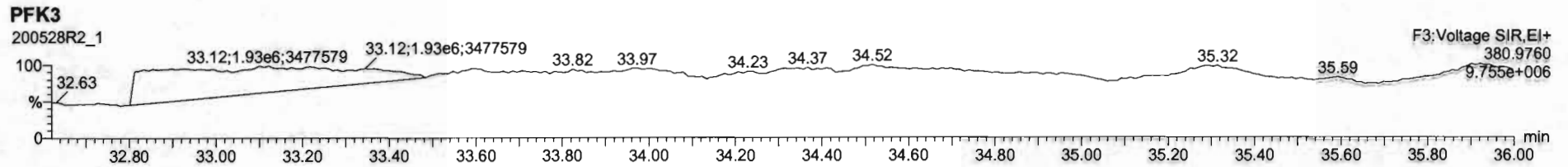
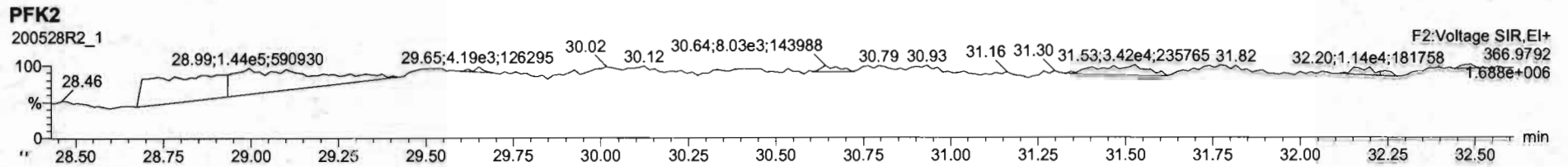
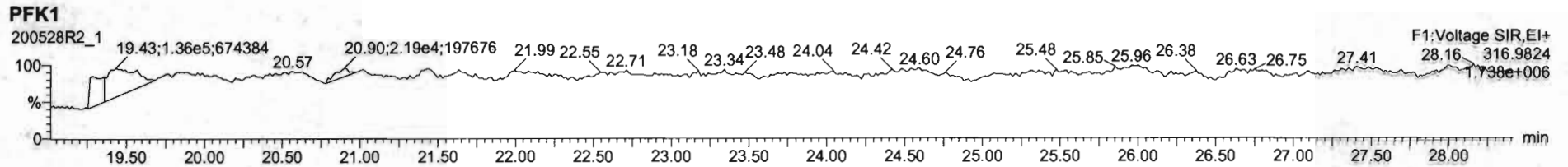
Name	Resp	RA	aly	RRF	wtWt	RT	RRT	Conc	%Rec	QL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.98	NO	0.8803	1.000	26.54	1.000	0.242	85.7	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9041	1.000	31.60	1.000	1.12	90.0	0.0202	1.13
3 1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	89.4	0.042E	1.12
4 1,2,3,6,7,8-HxCDD	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	0.85	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	0.75	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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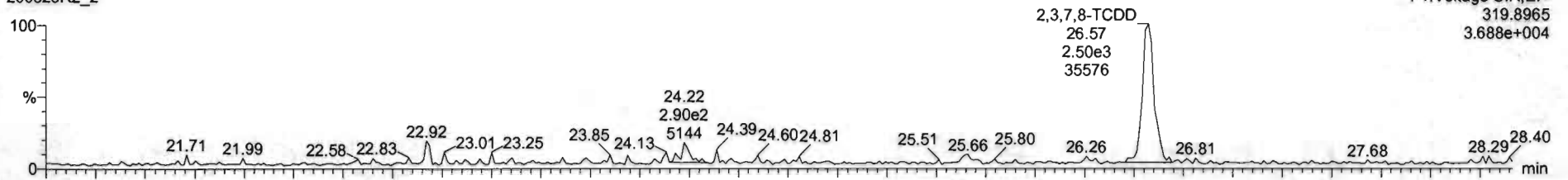
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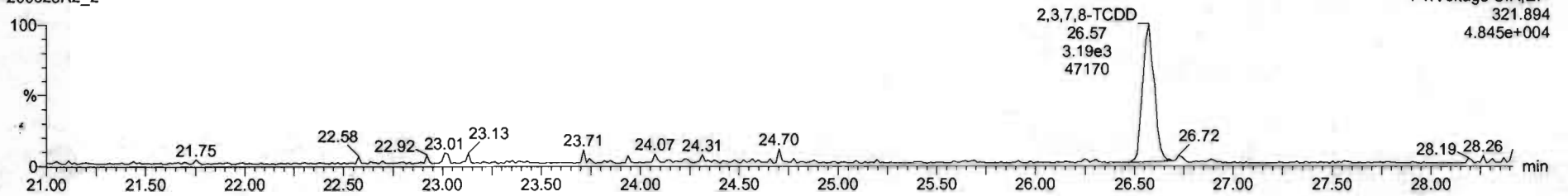
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2,3,7,8-TCDD

200528R2_2

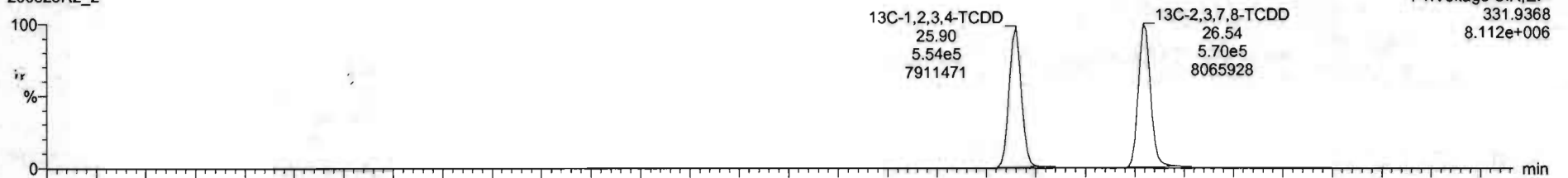


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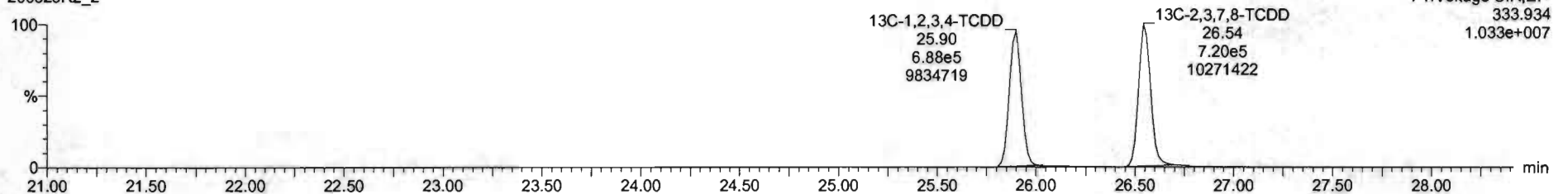


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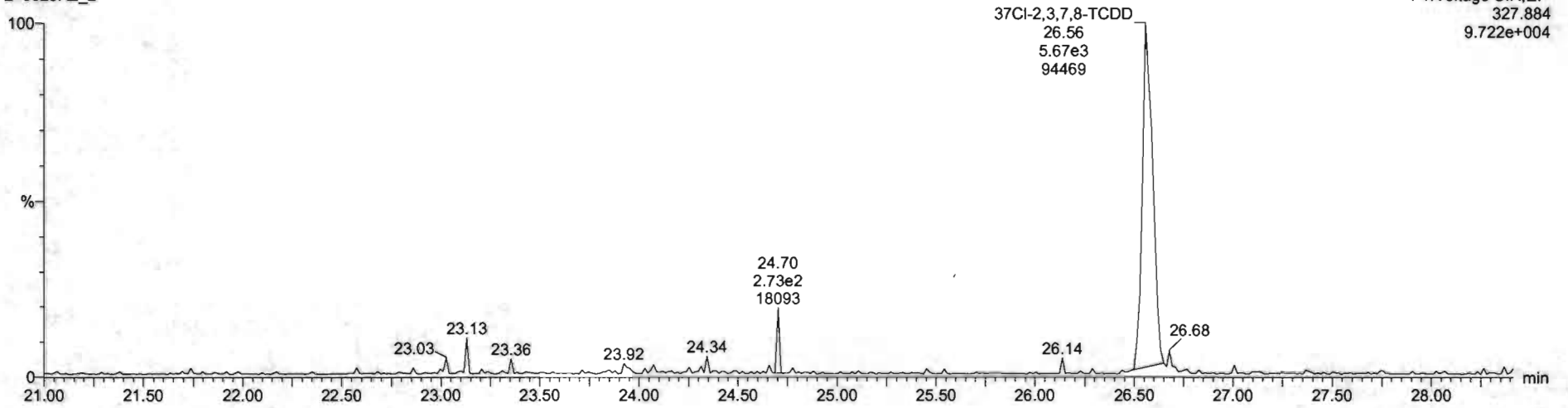
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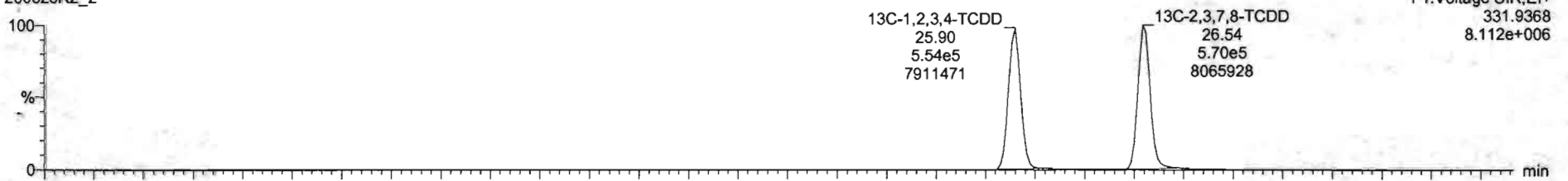
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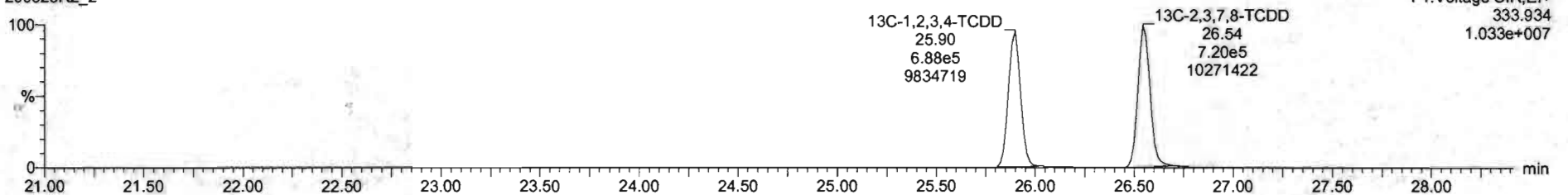


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200528R2_2



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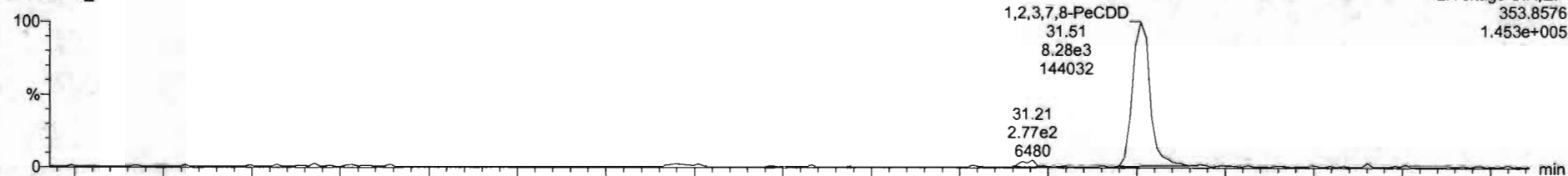
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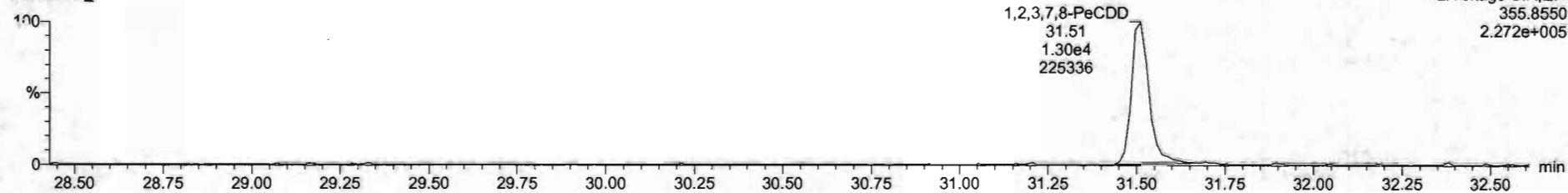
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1,2,3,7,8-PeCDD

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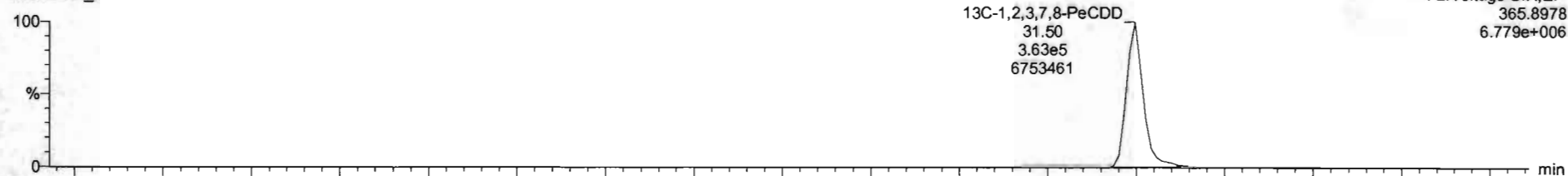


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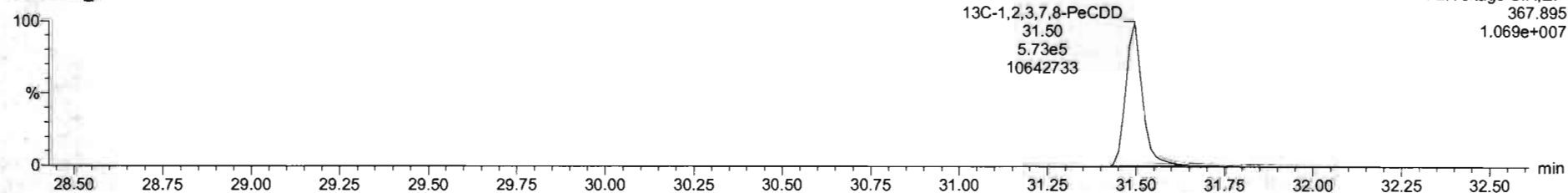


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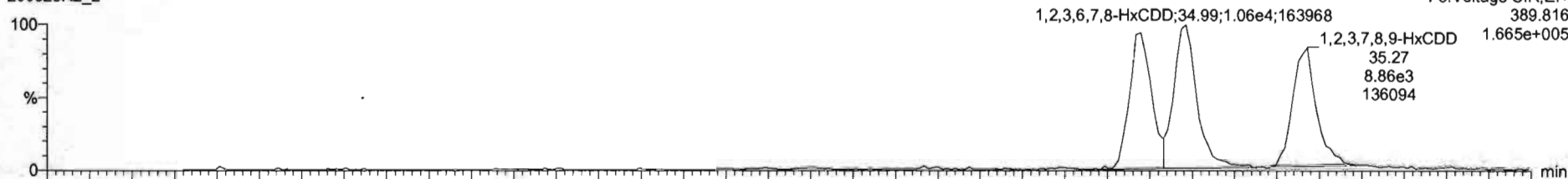
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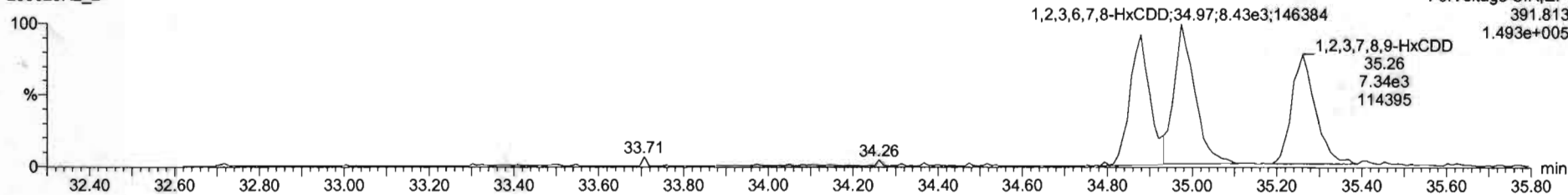
Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200528R2_2

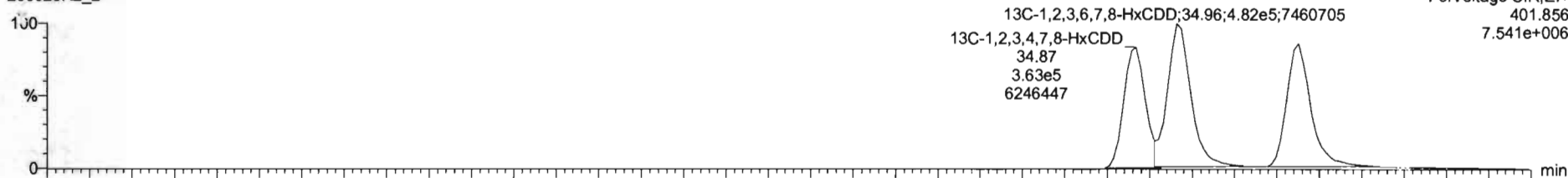


200528R2_2

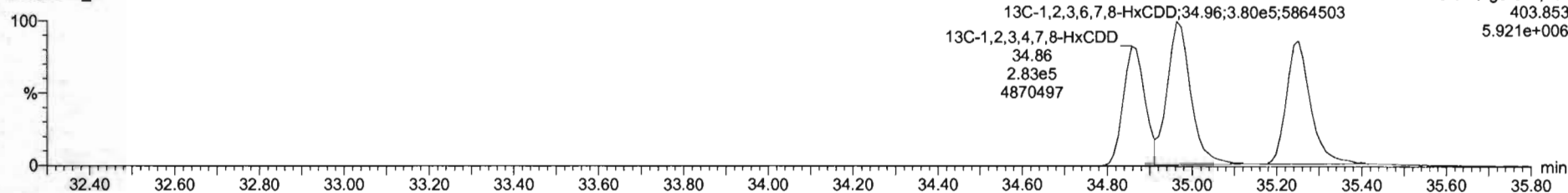


13C-1,2,3,4,7,8-HxCDD

200528R2_2



200528R2_2



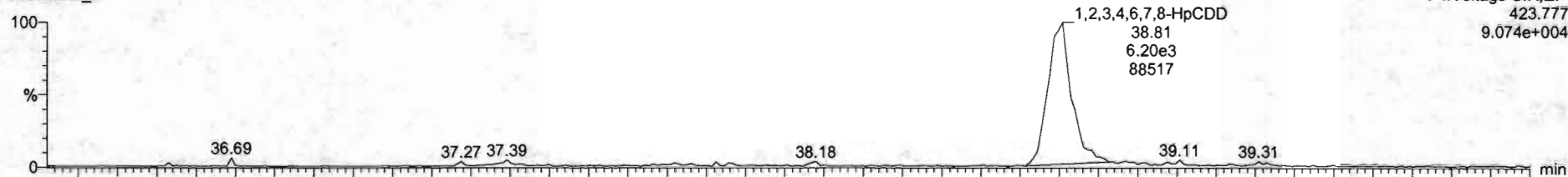
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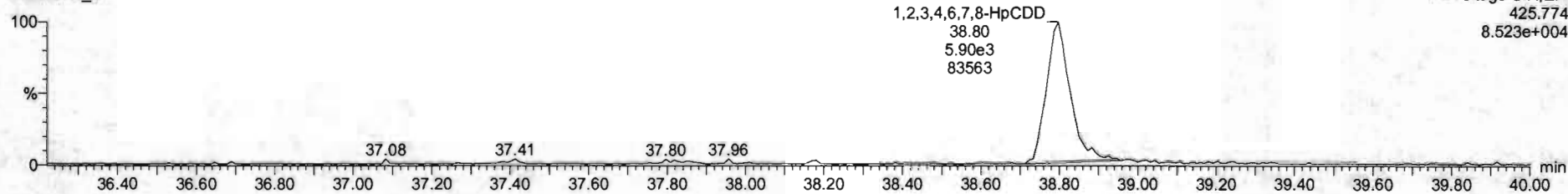
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1,2,3,4,6,7,8-HpCDD

200528R2_2

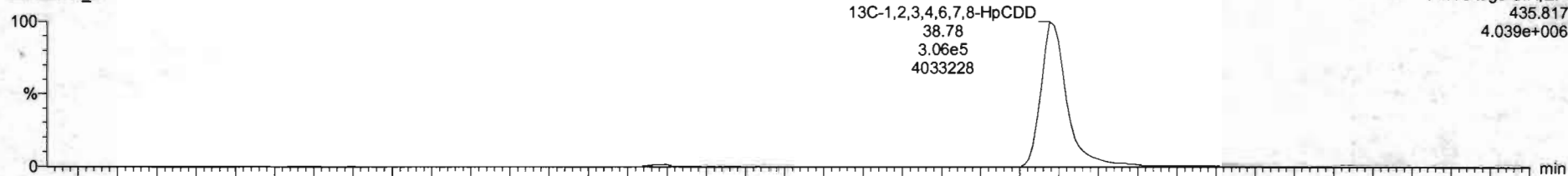


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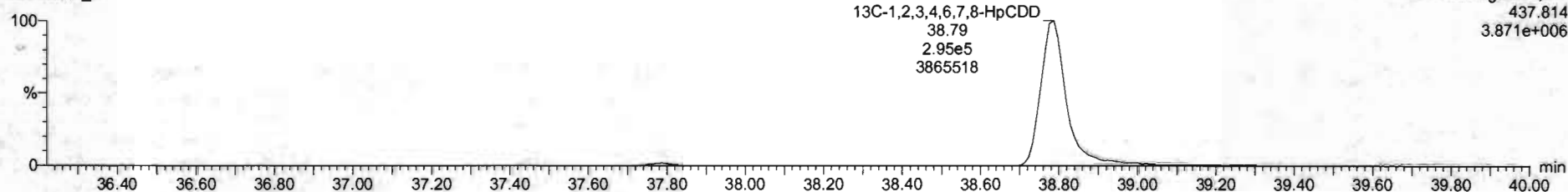


13C-1,2,3,4,6,7,8-HpCDD

200528R2_2



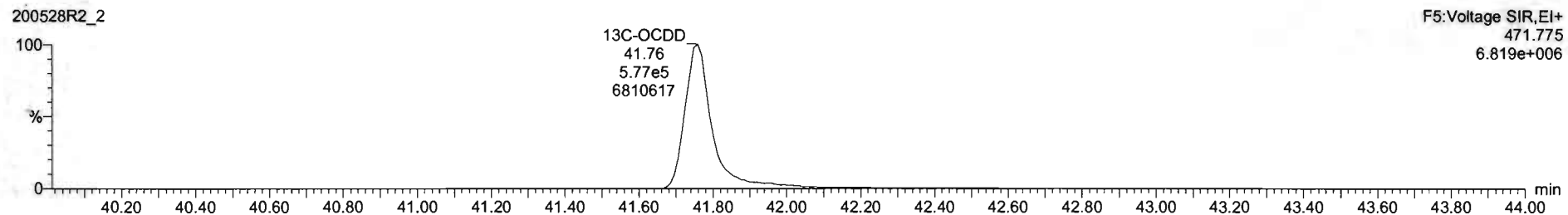
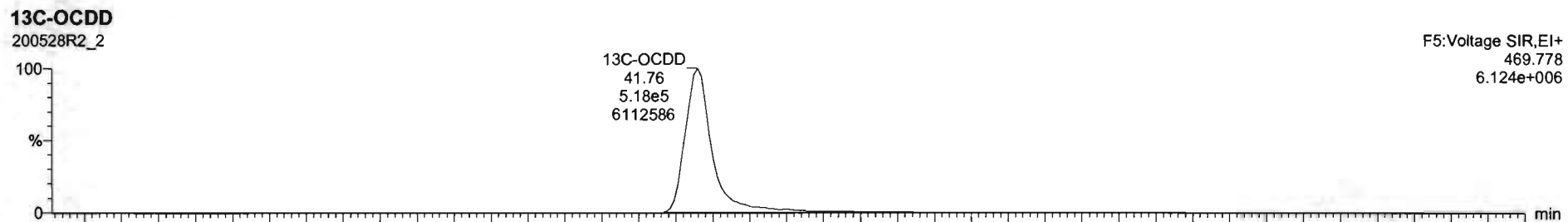
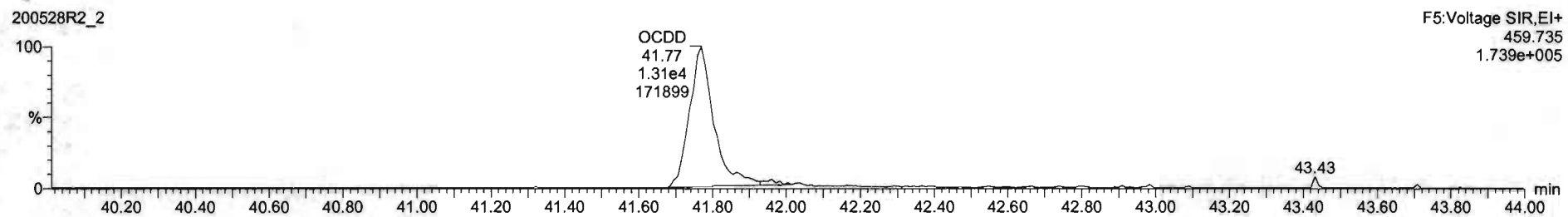
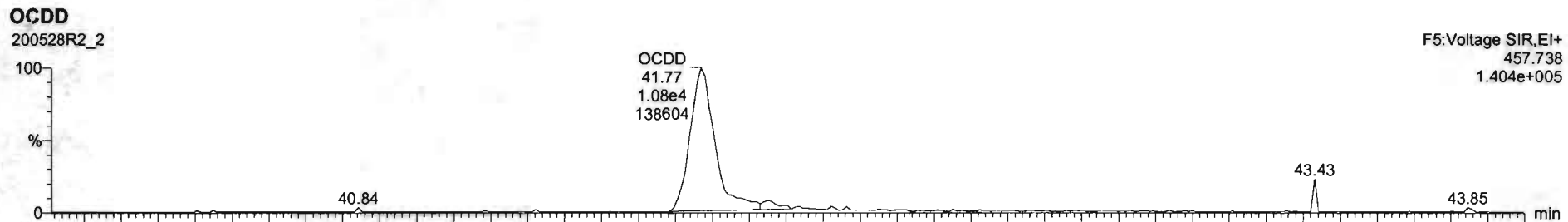
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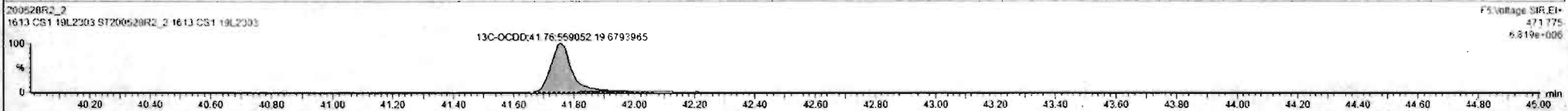
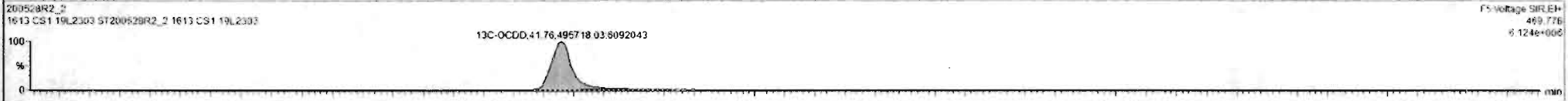
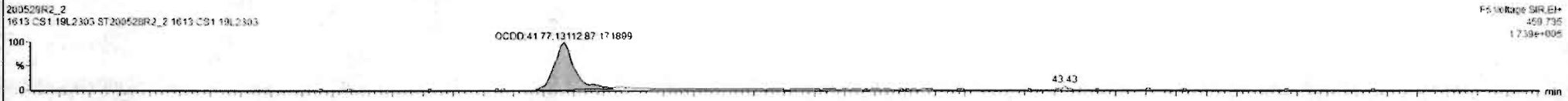
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



Name	Resp	RA	nJY	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	0.84	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	0.463	97.7	0.0670	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	0.9348	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	0.8545	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	86.7	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	6.61e5	1.27	NO	1.0187	1.000	34.95	1.017	87.7	87.7	0.140	



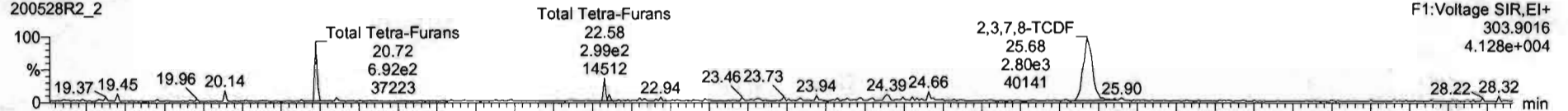
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

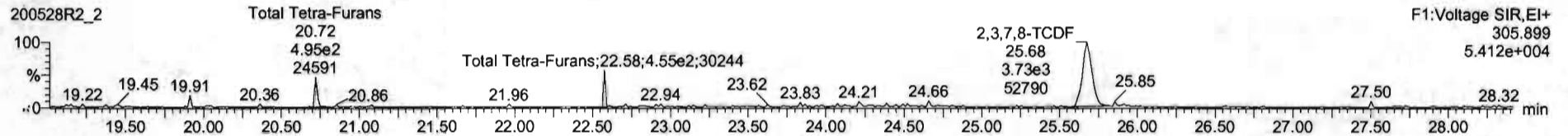
Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200528R2_2

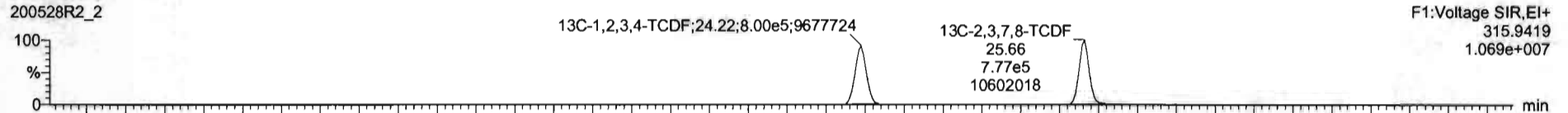


200528R2_2

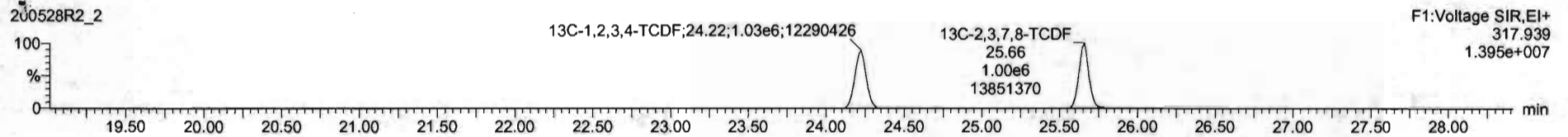


13C-2,3,7,8-TCDF

200528R2_2

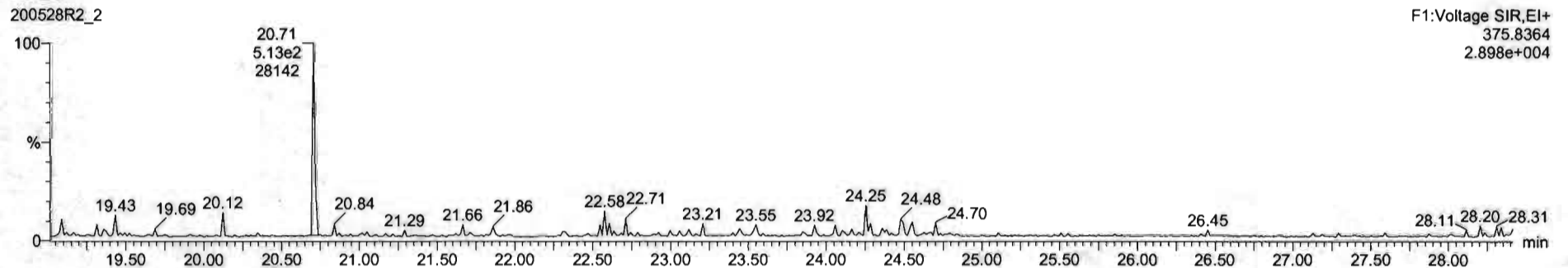


200528R2_2



DPE1

200528R2_2



Dataset: Untitled

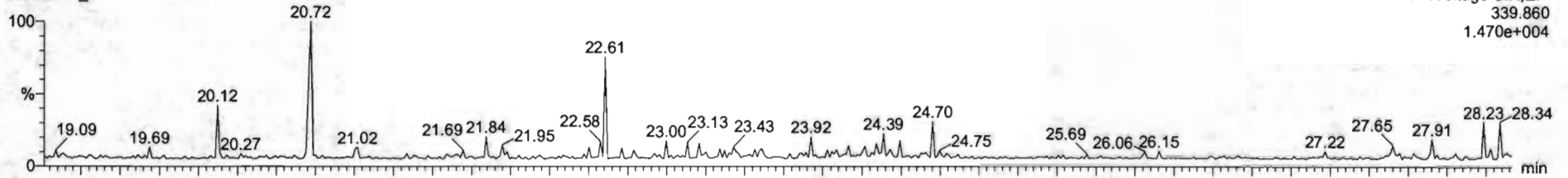
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans

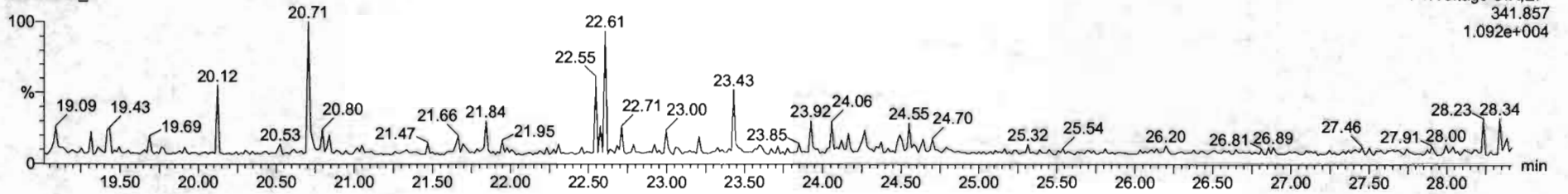
200528R2_2

F1:Voltage SIR,EI+
339.860
1.470e+004



200528R2_2

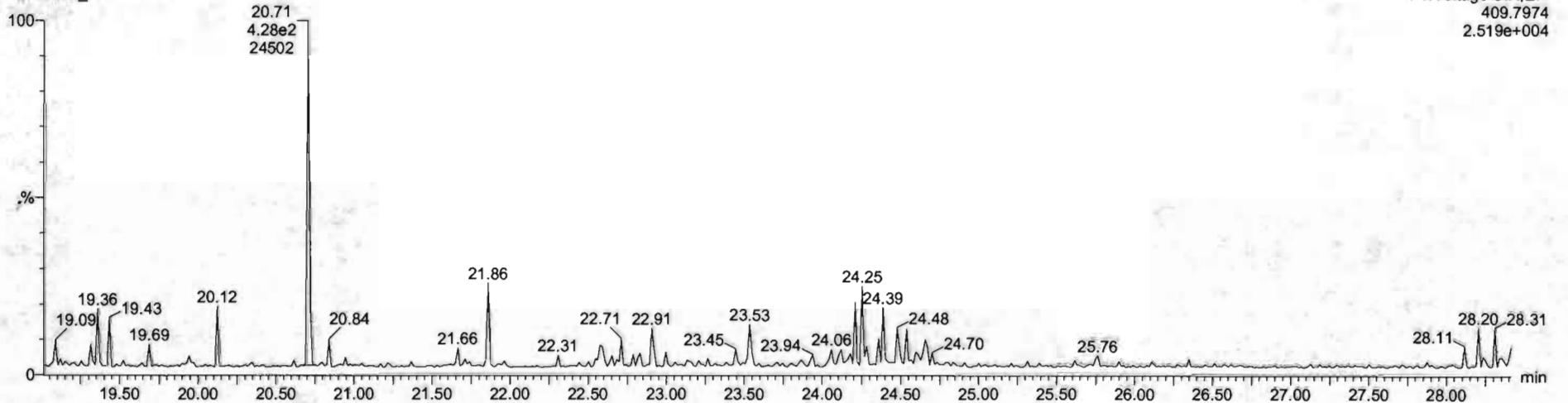
F1:Voltage SIR,EI+
341.857
1.092e+004



DPE6

200528R2_2

F1:Voltage SIR,EI+
409.7974
2.519e+004



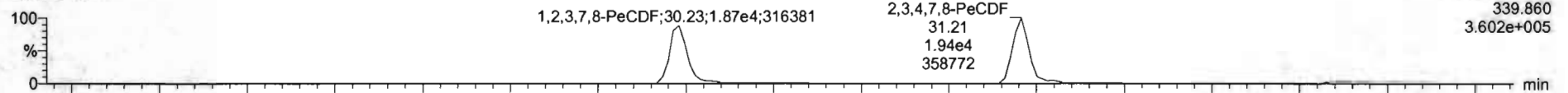
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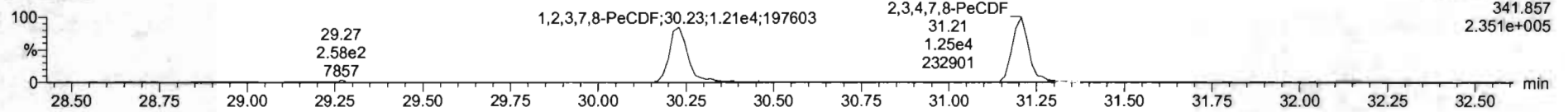
1,2,3,7,8-PeCDF

200528R2_2



F2:Voltage SIR,EI+
339.860
3.602e+005

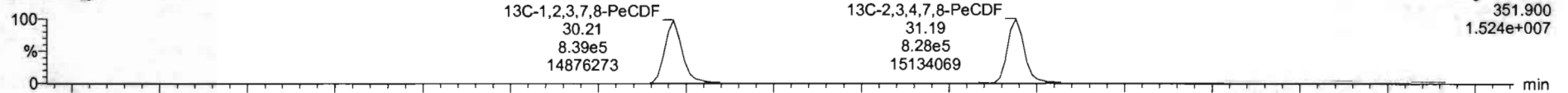
200528R2_2



F2:Voltage SIR,EI+
341.857
2.351e+005

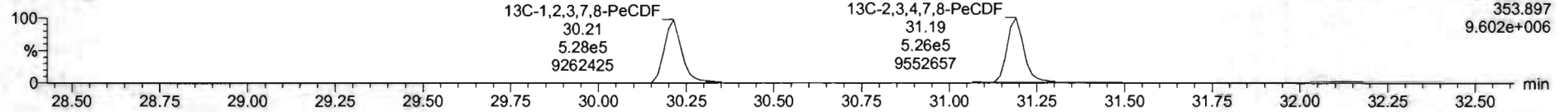
13C-1,2,3,7,8-PeCDF

200528R2_2



F2:Voltage SIR,EI+
351.900
1.524e+007

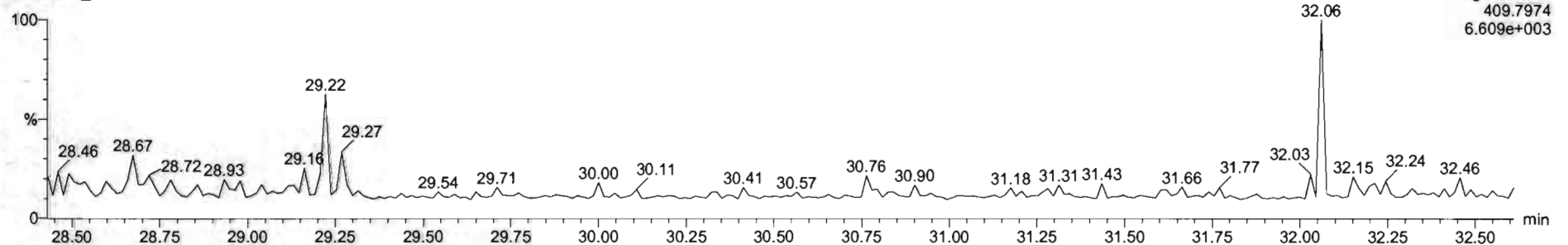
200528R2_2



F2:Voltage SIR,EI+
353.897
9.602e+006

DPE2

200528R2_2



F2:Voltage SIR,EI+
409.7974
6.609e+003

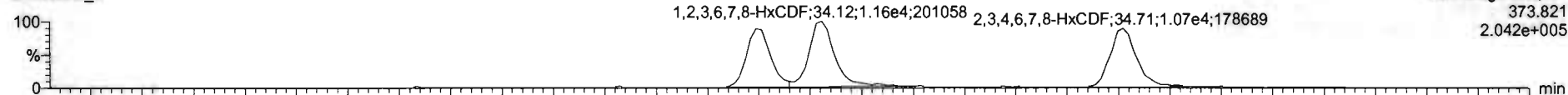
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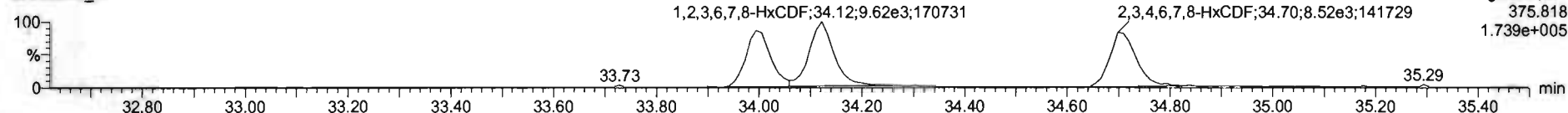
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1,2,3,4,7,8-HxCDF

200528R2_2

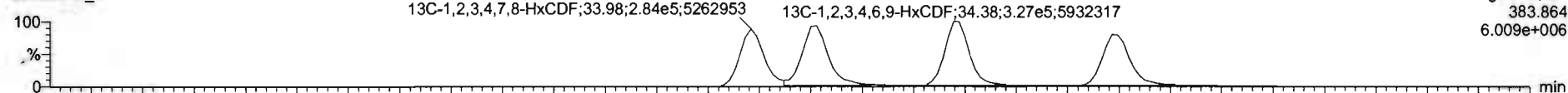


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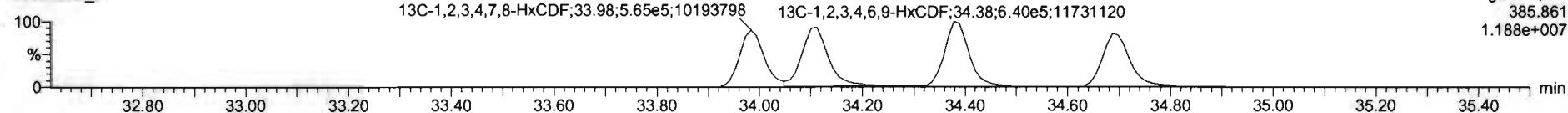


13C-1,2,3,4,7,8-HxCDF

200528R2_2

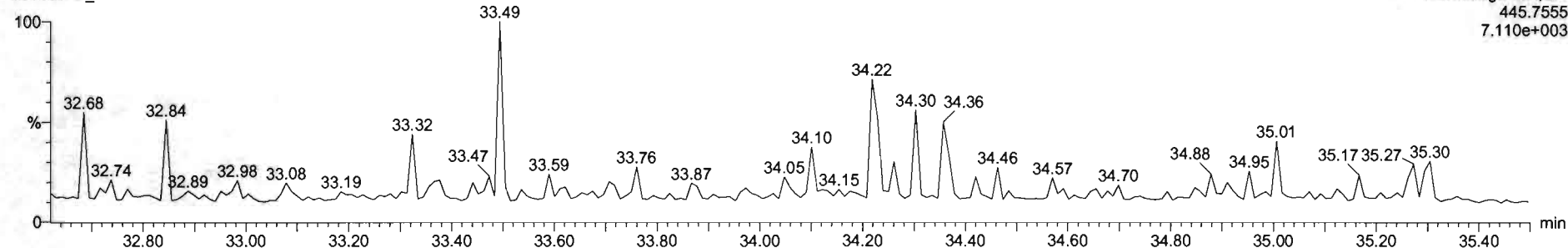


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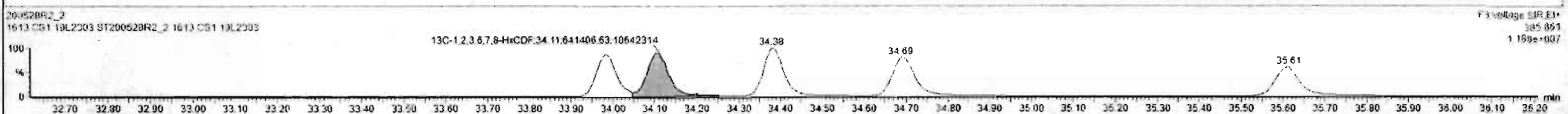
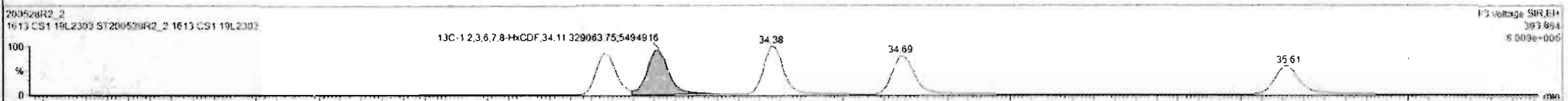


DPE3

200528R2_2

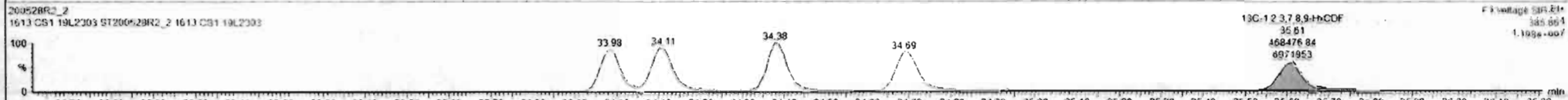
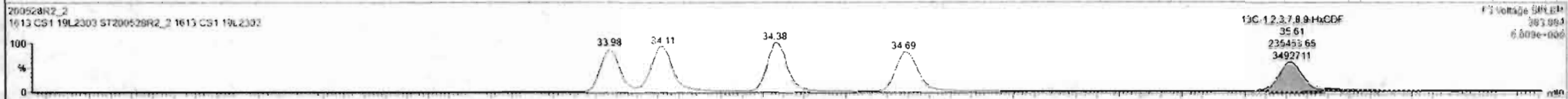


#	Name	Resp	RA	nby	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.69e3	0.76	NO	0.8963	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9051	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0334	1.000	34.86	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8979	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	0.9136	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	



Custom Reporting: Select reports to generate

#	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	0.9136	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	



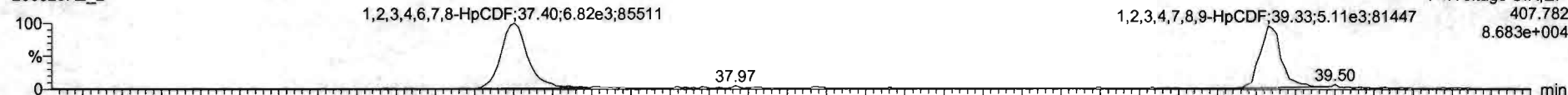
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

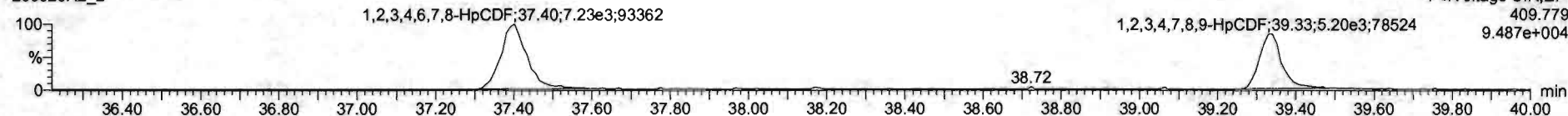
Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200528R2_2



200528R2_2

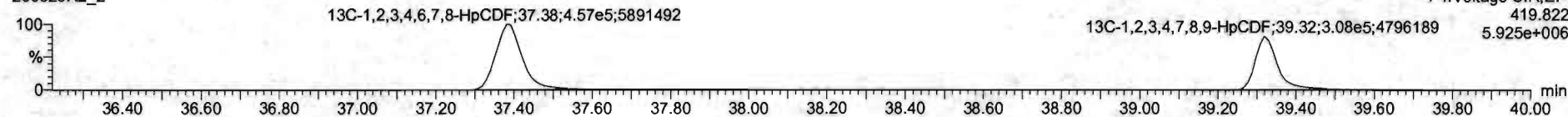


13C-1,2,3,4,6,7,8-HpCDF

200528R2_2

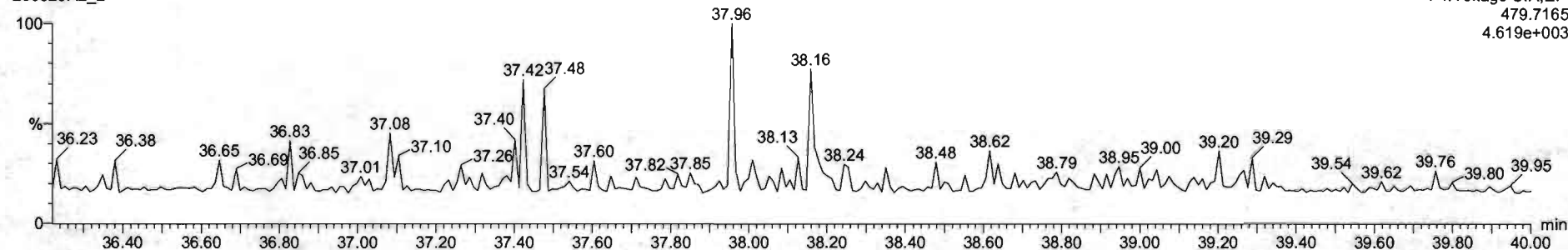


200528R2_2



DPE4

200528R2_2



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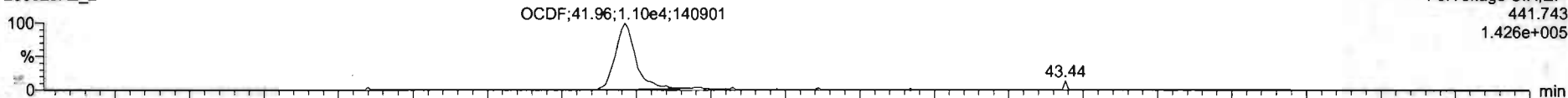
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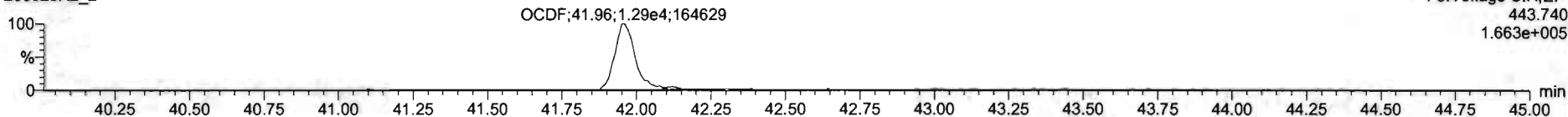
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OCDF

200528R2_2

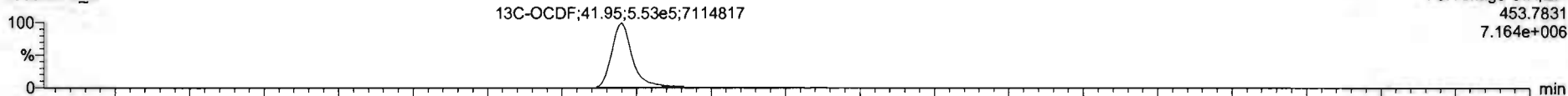


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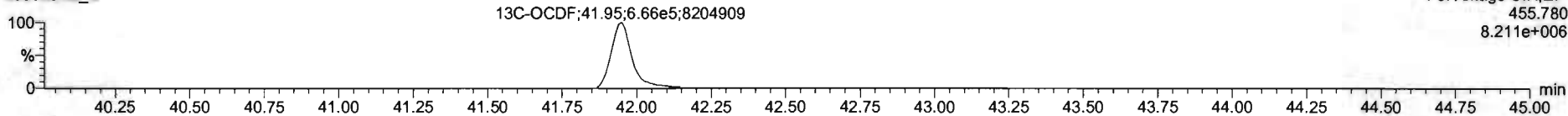


13C-OCDF

200528R2_2

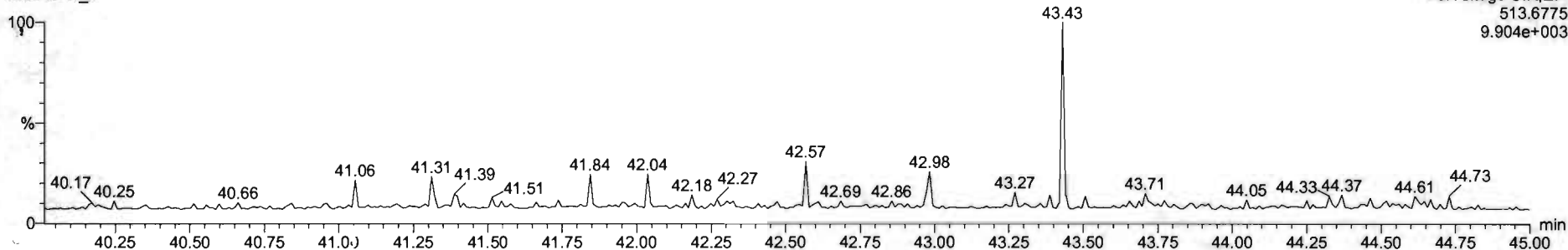


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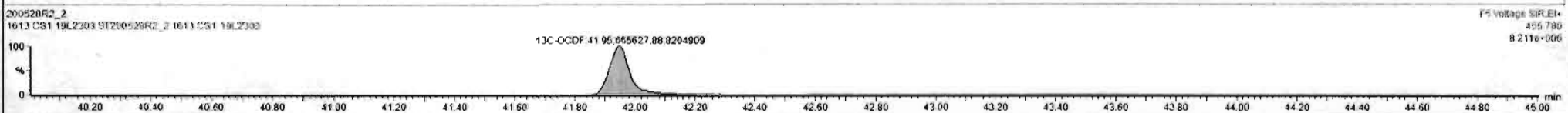


DPE5

200528R2_2



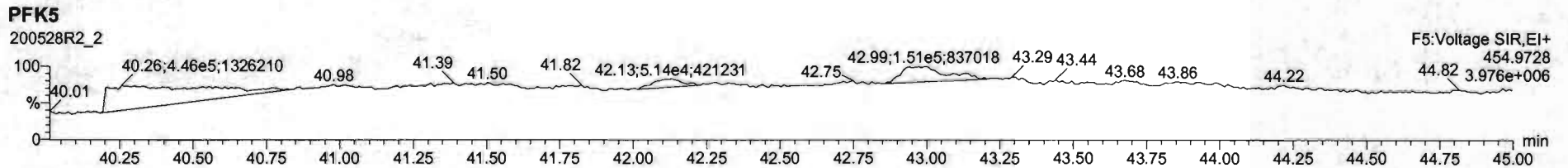
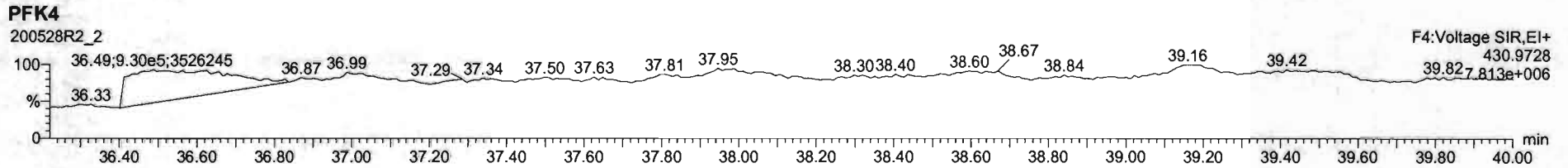
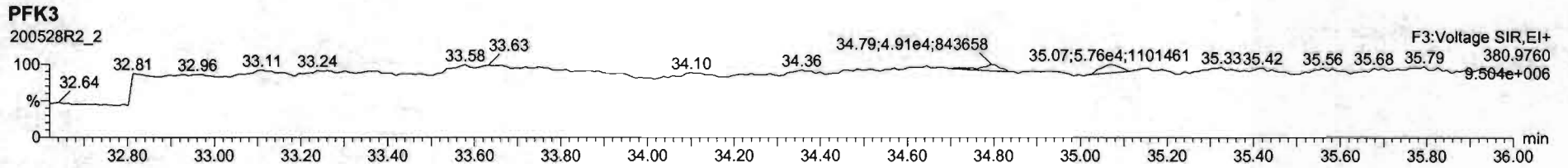
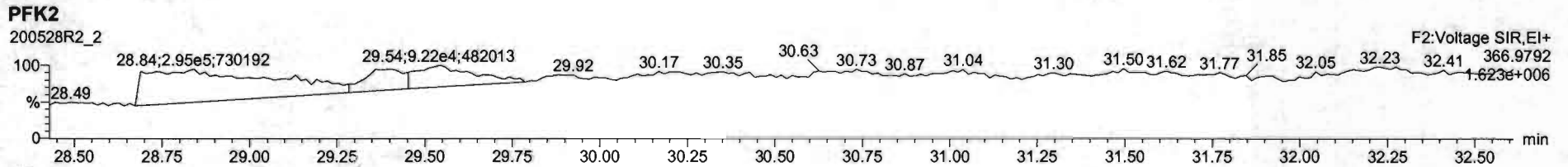
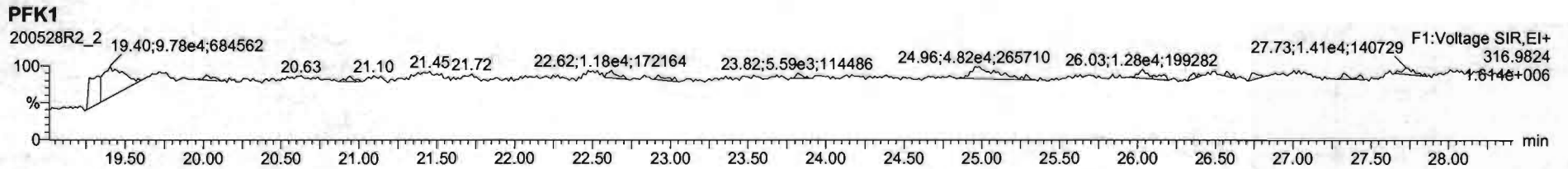
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.85e4	1.27	NO	1.0334	1.000	24.85	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	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	0.0928	
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

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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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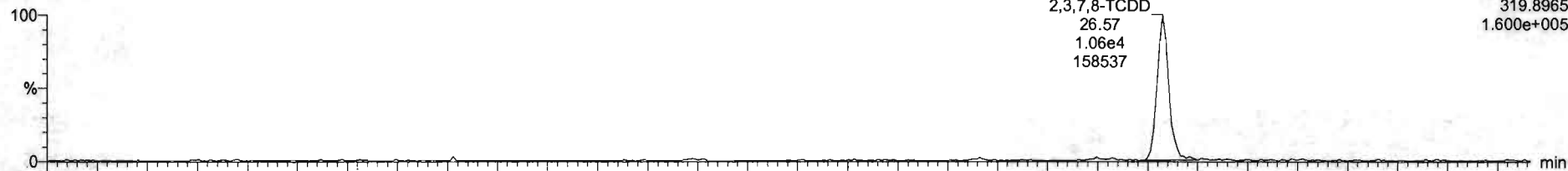
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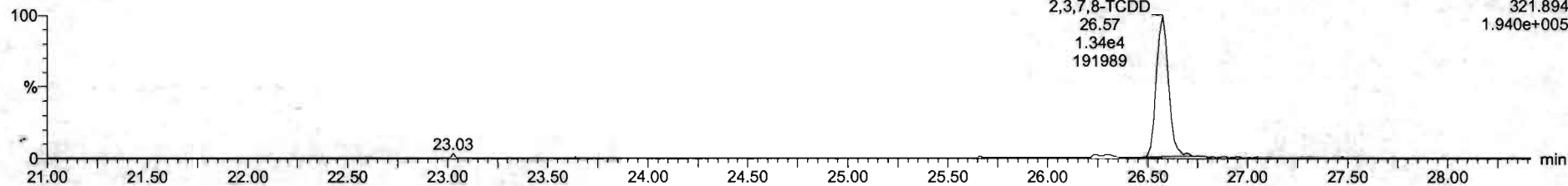
Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDD

200528R2_3

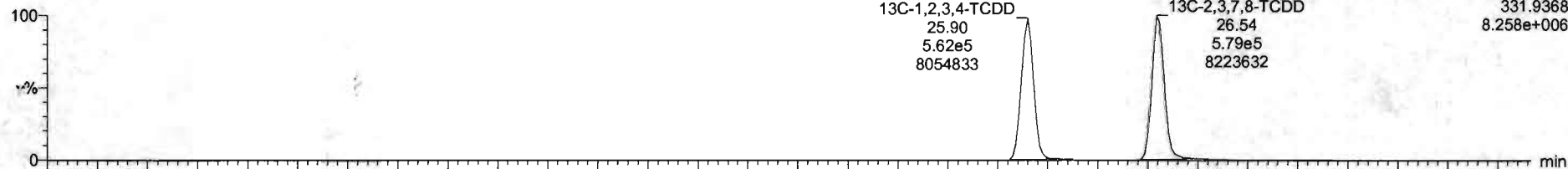


200528R2_3

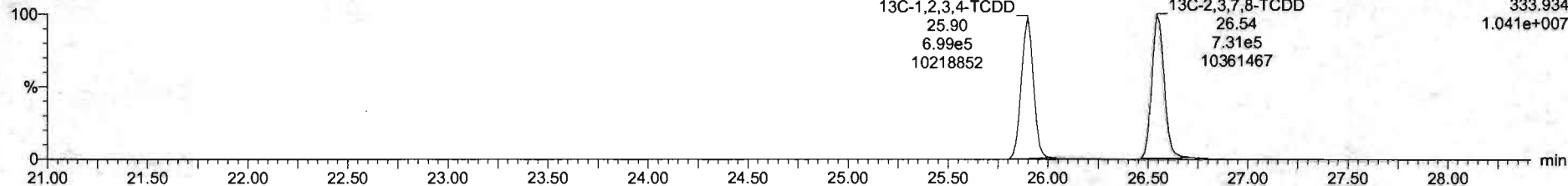


13C-2,3,7,8-TCDD

200528R2_3



200528R2_3



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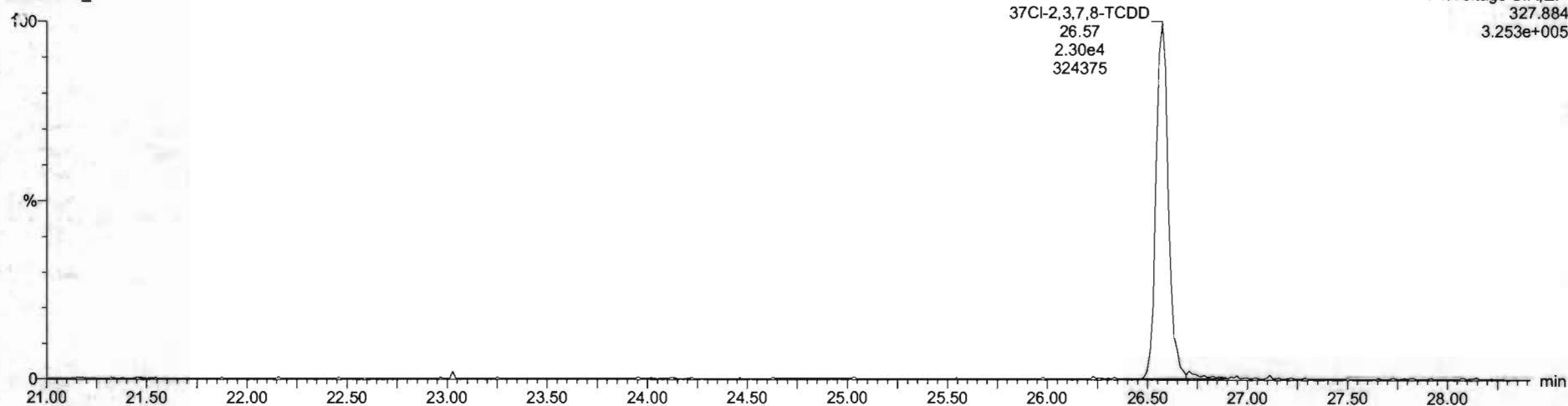
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Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

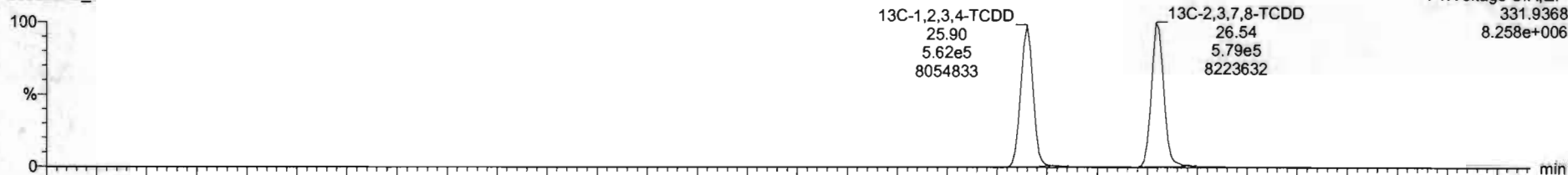
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200528R2_3

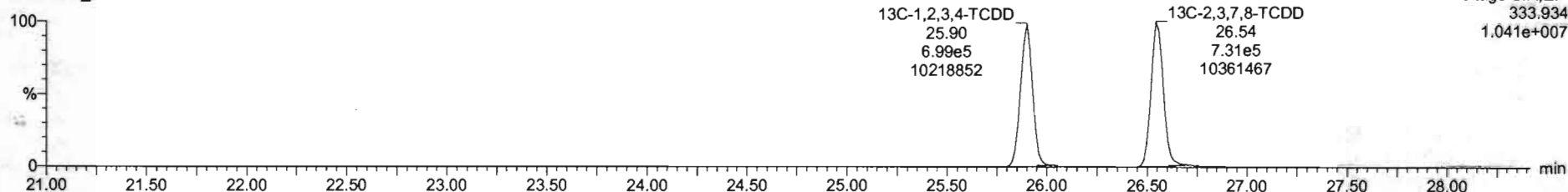


13C-1,2,3,4-TCDD

200528R2_3



200528R2_3



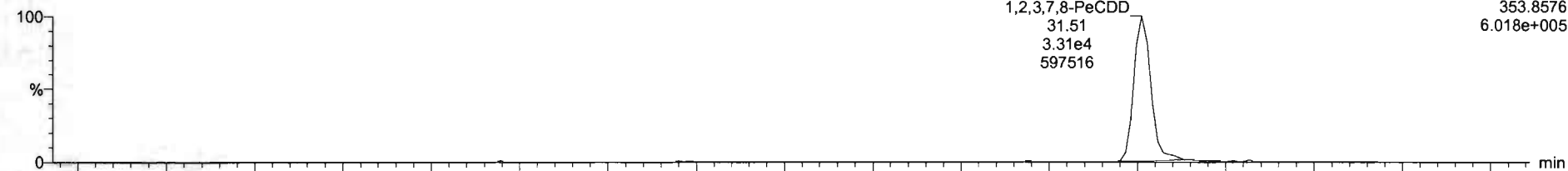
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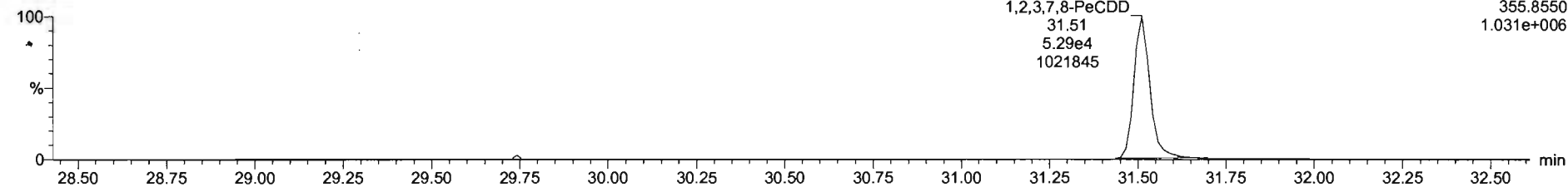
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1,2,3,7,8-PeCDD

200528R2_3

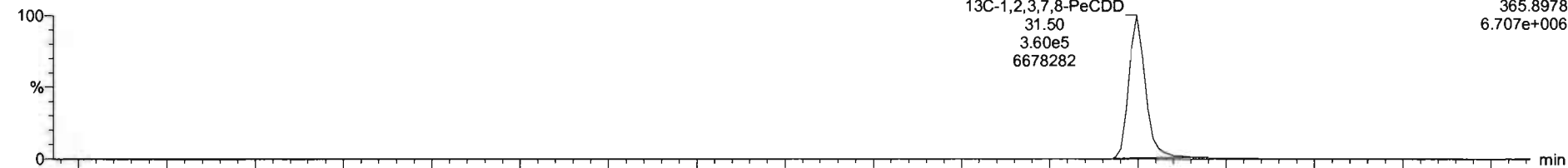


200528R2_3

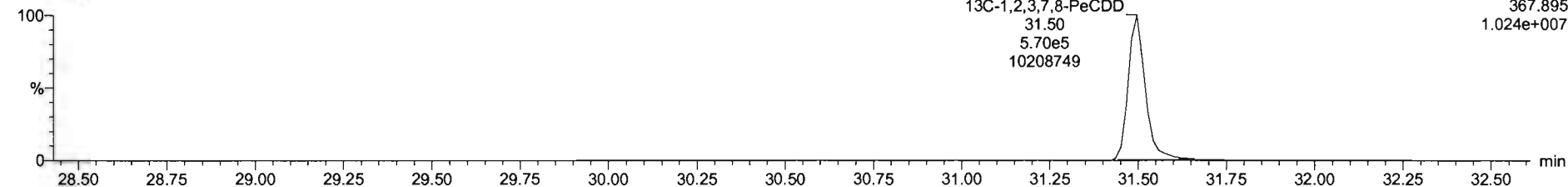


13C-1,2,3,7,8-PeCDD

200528R2_3



200528R2_3



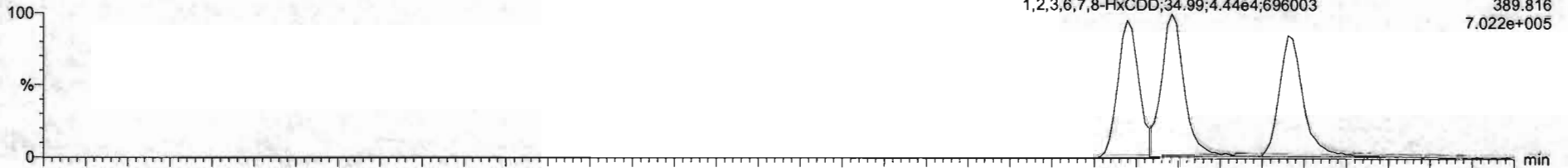
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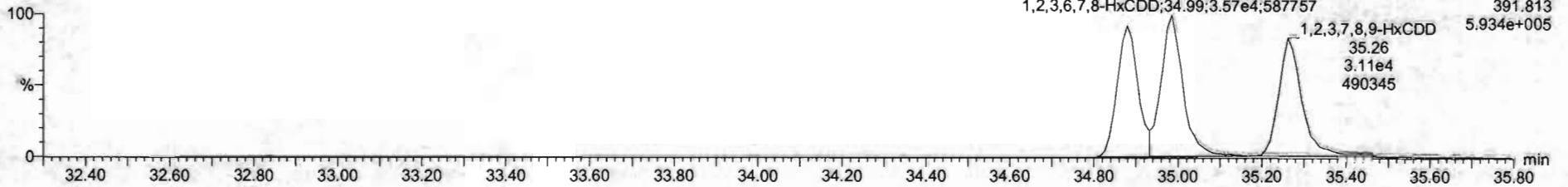
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1,2,3,4,7,8-HxCDD

200528R2_3

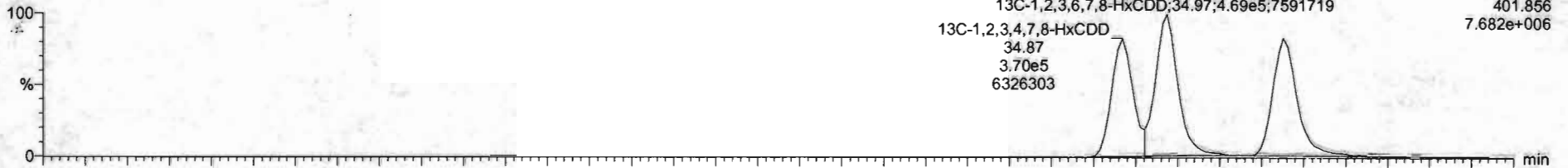


200528R2_3

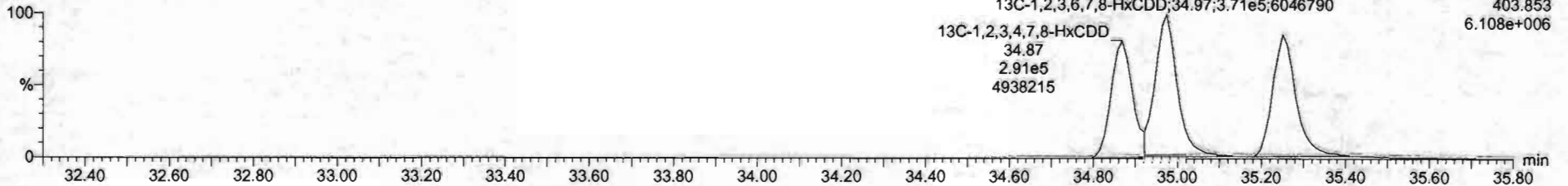


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200528R2_3



200528R2_3



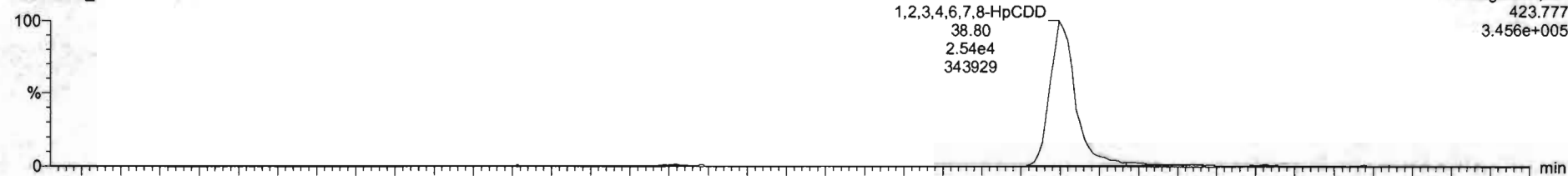
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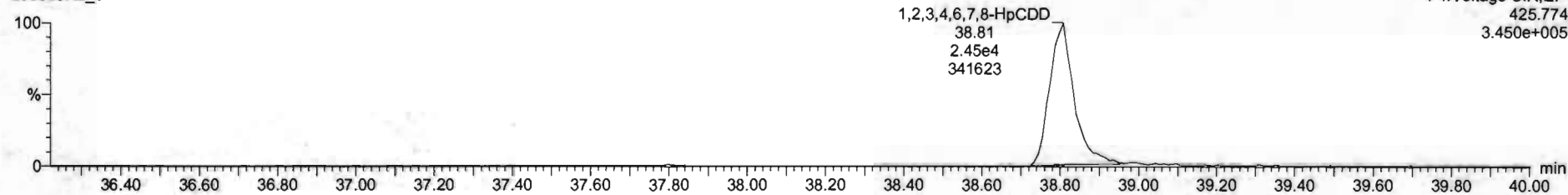
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1,2,3,4,6,7,8-HpCDD

200528R2_3

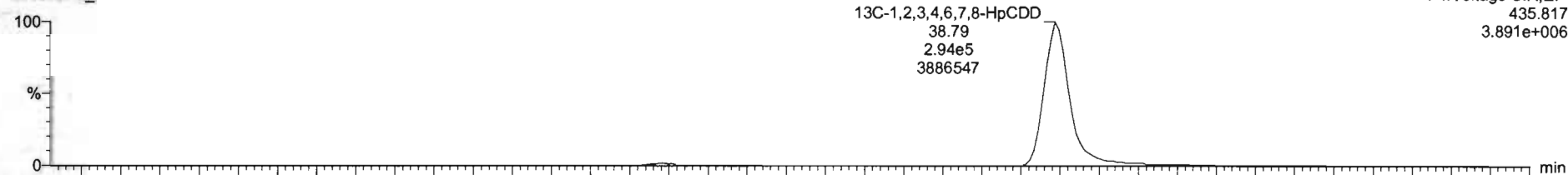


200528R2_3

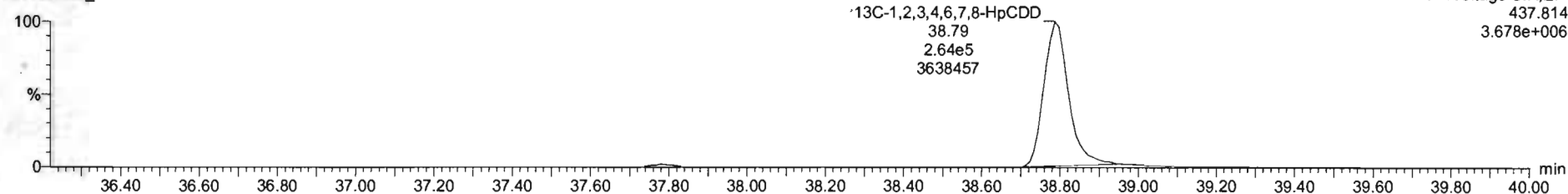


13C-1,2,3,4,6,7,8-HpCDD

200528R2_3



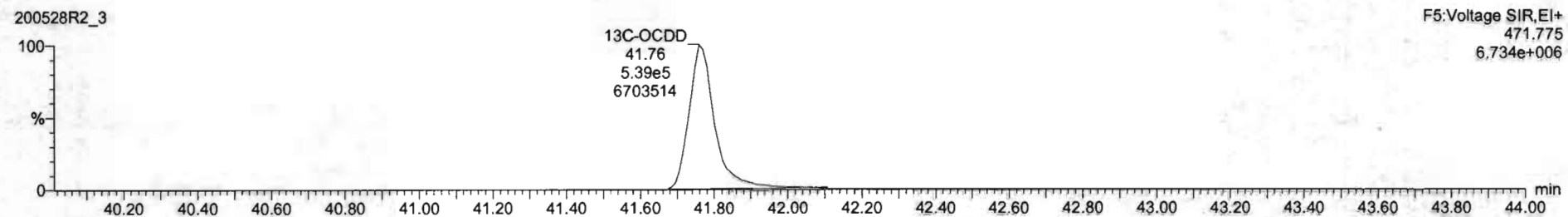
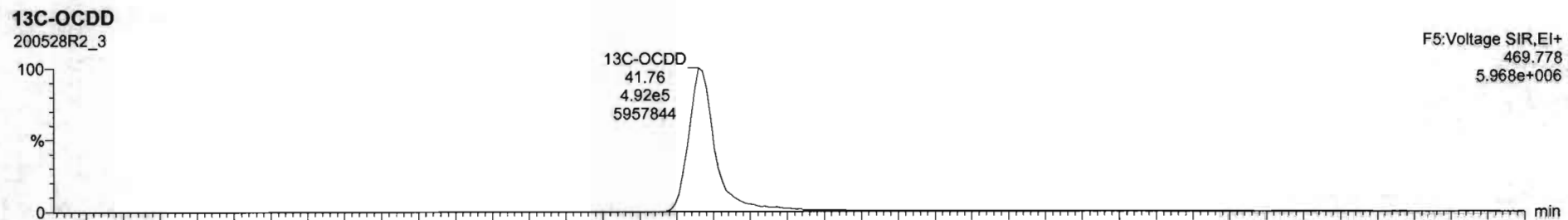
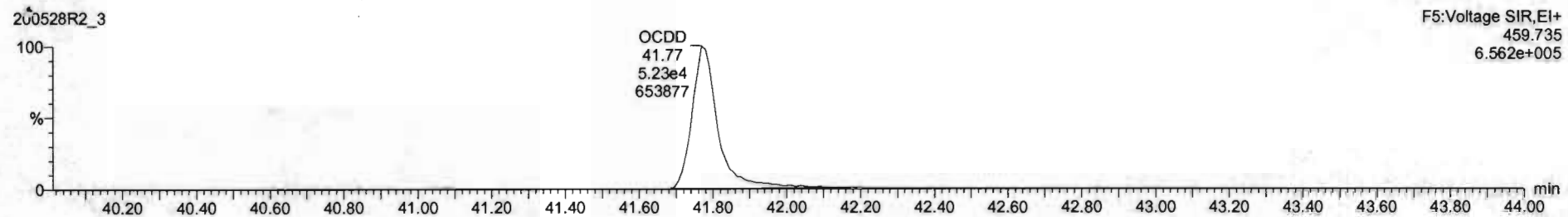
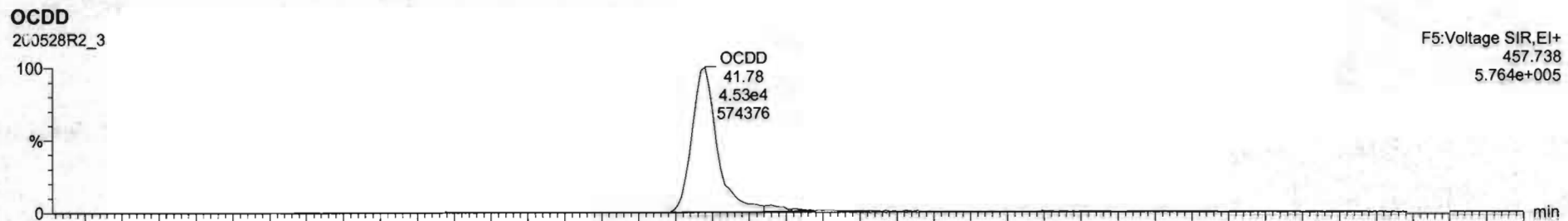
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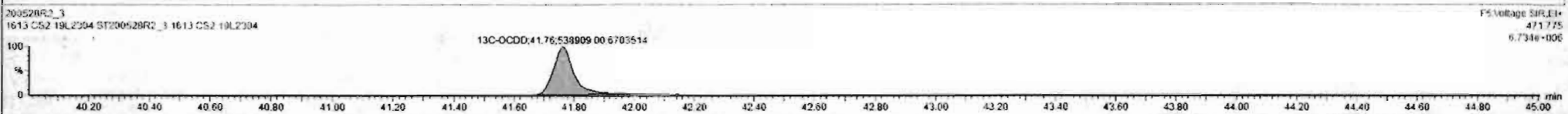
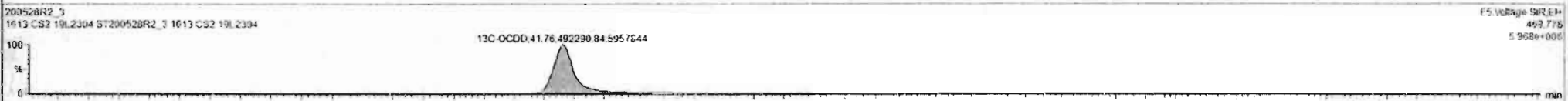
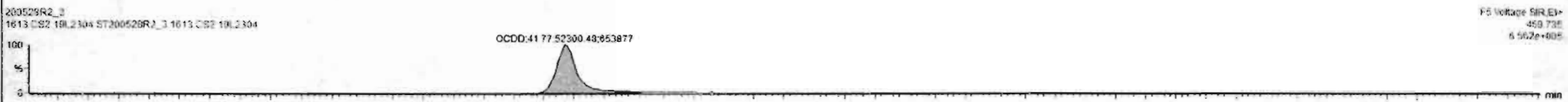
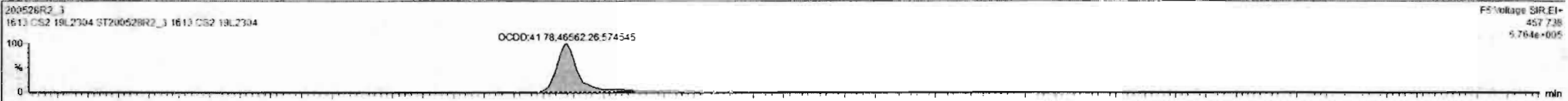
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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	4.59e4	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	0.0860	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	0.0961	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	0.0828	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	0.0861	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	



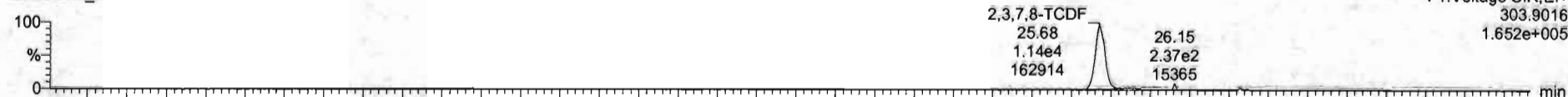
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

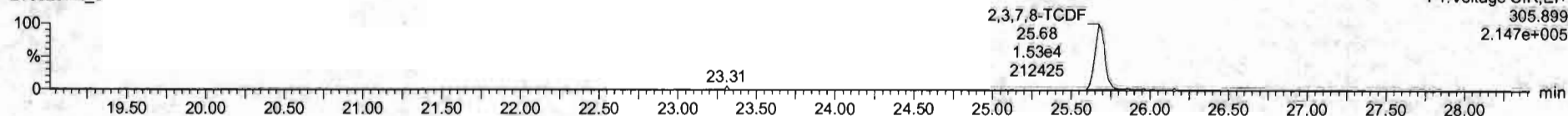
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2,3,7,8-TCDF

200528R2_3

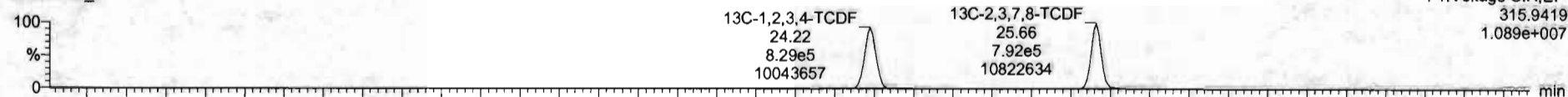


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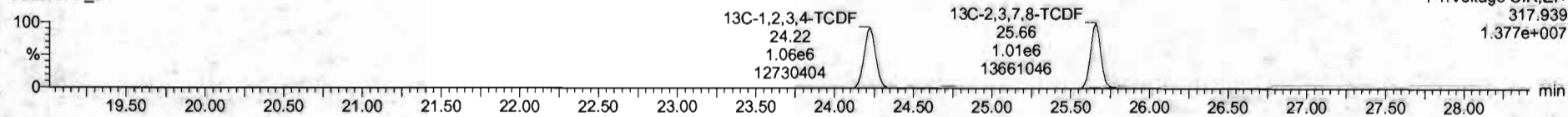


13C-2,3,7,8-TCDF

200528R2_3

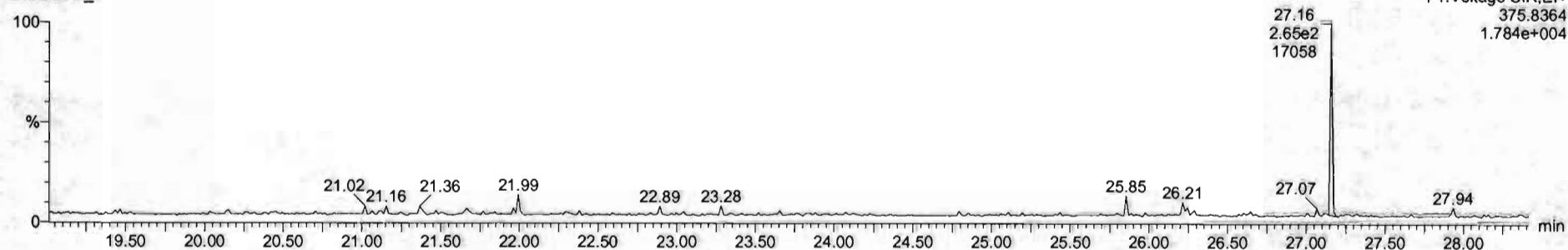


200528R2_3



DPE1

200528R2_3



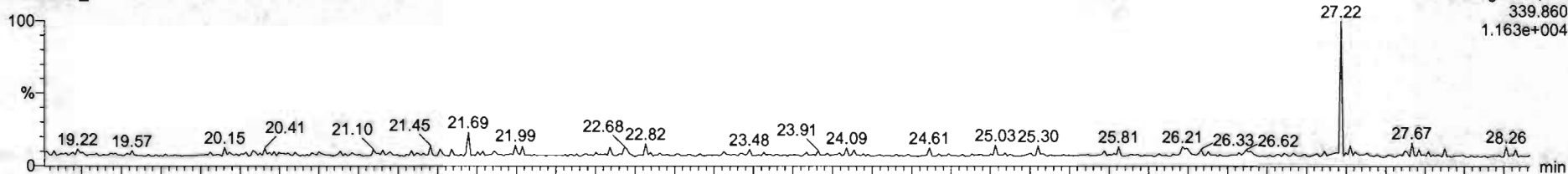
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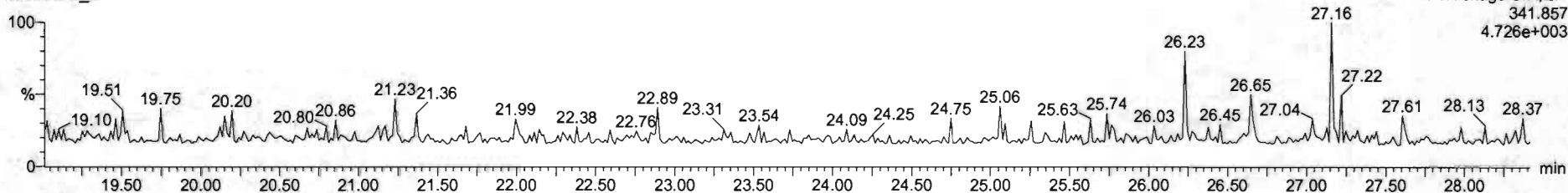
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200528R2_3

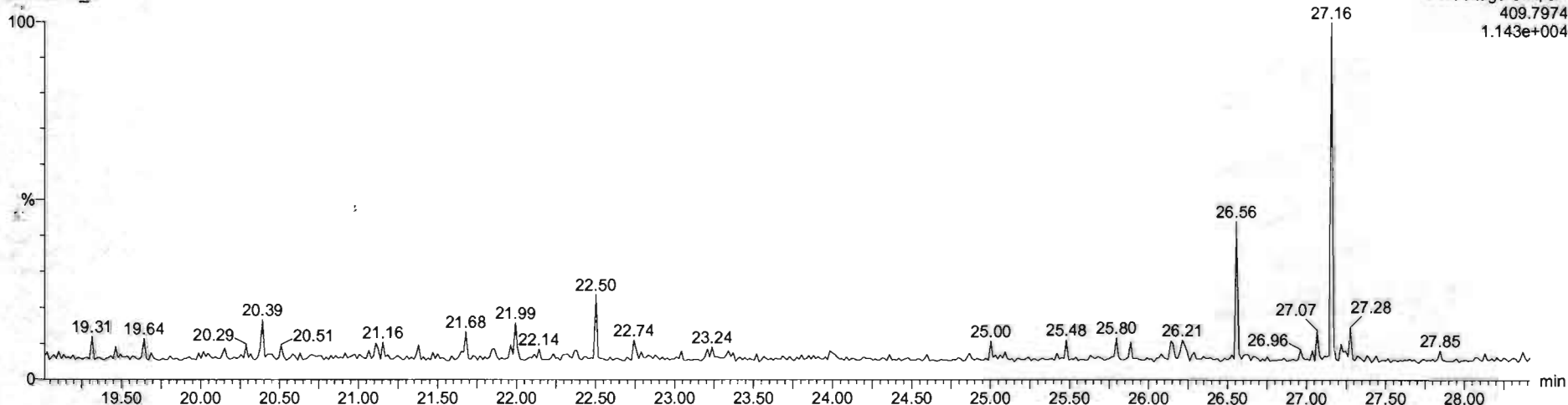


200528R2_3



DPE6

200528R2_3



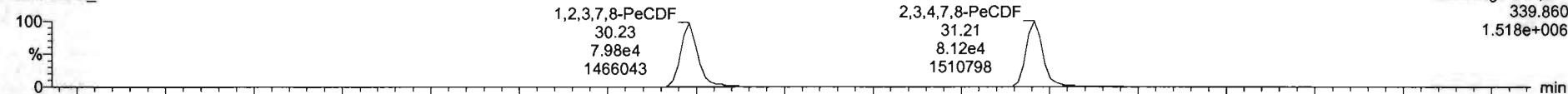
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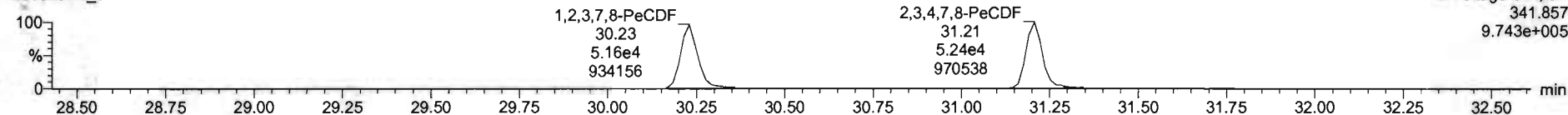
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1,2,3,7,8-PeCDF

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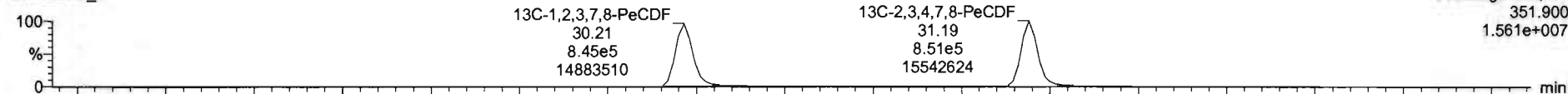


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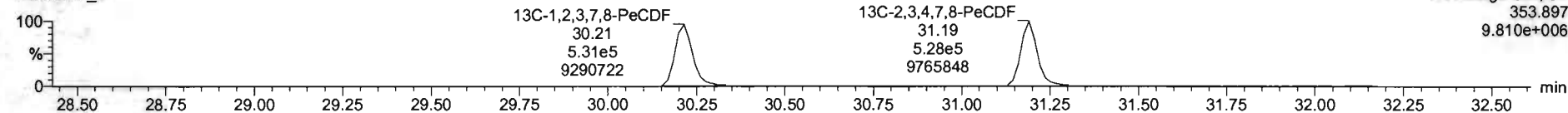


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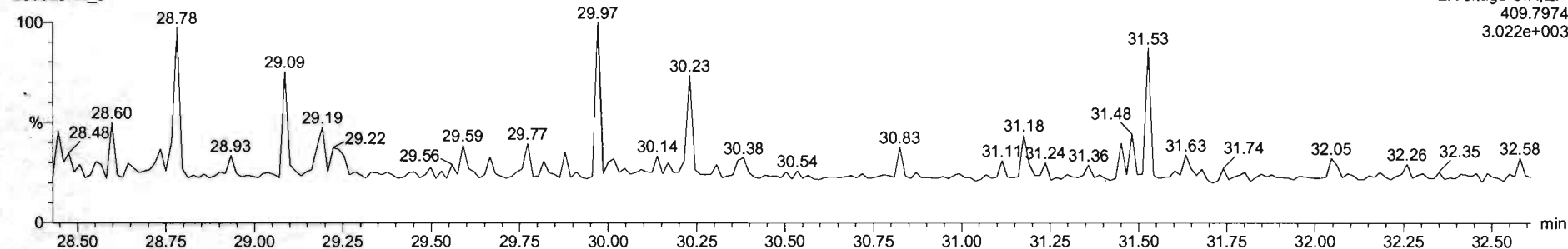


200528R2_3



DPE2

200528R2_3



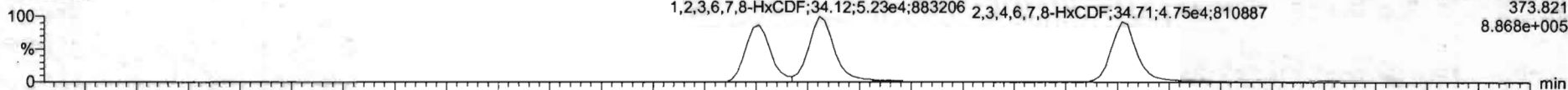
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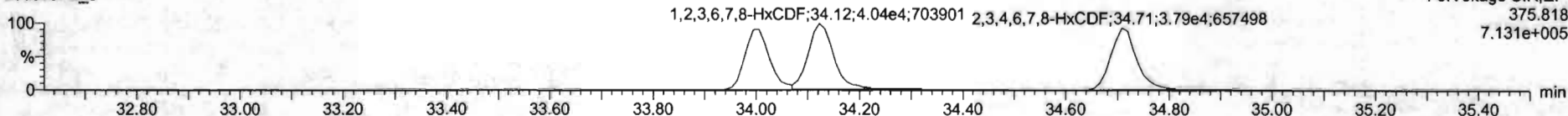
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1,2,3,4,7,8-HxCDF

200528R2_3

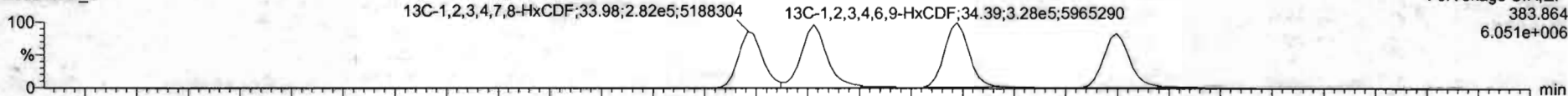


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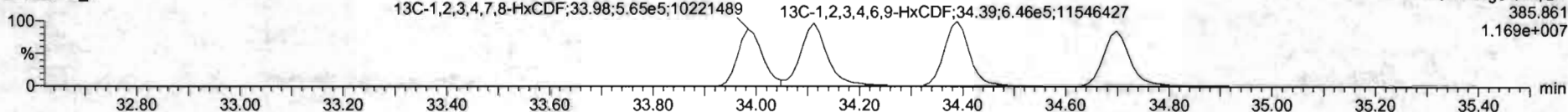


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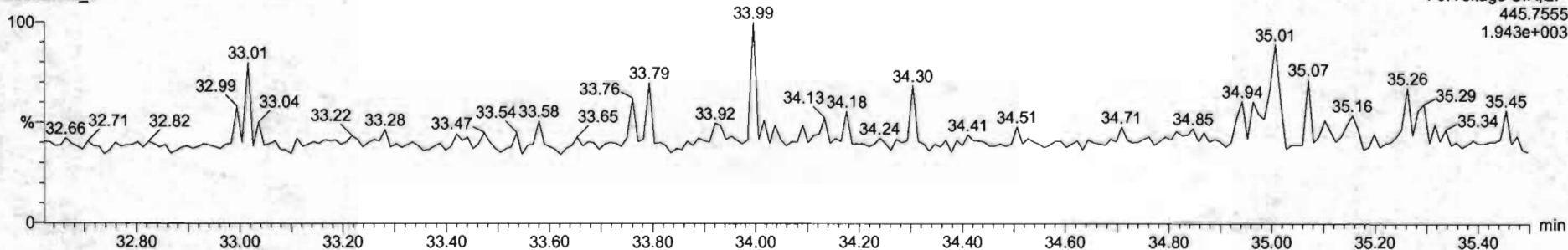


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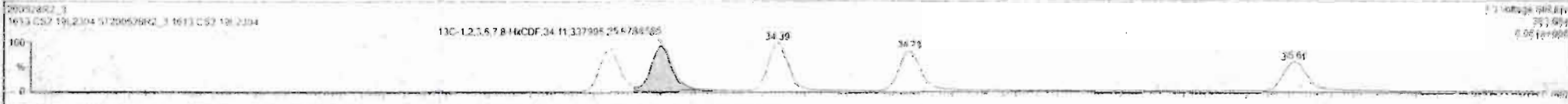
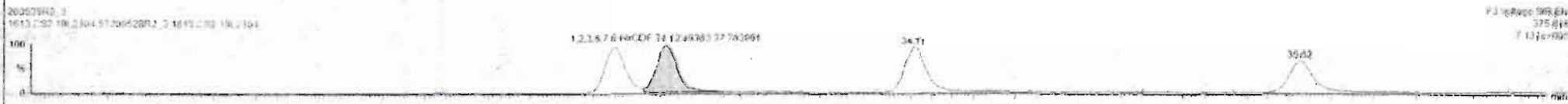


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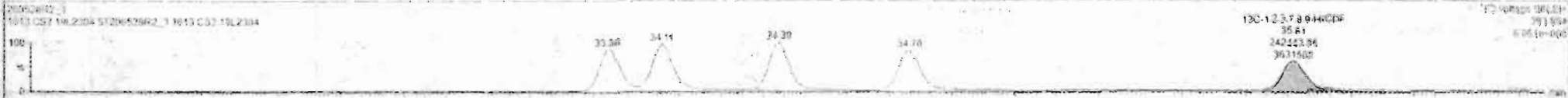


#	Name	Resp	Rx	n/y	RRF	weight	RT	NK1	Conc	%Rec	DR	EMPL
1	1.2.3.6.7.CDD	2.58e4	0.39	NO	0.8883	1.000	26.57	1.001	2.08	103	0.0270	2.58
2	1.2.3.7.8.HxCDD	5.58e4	0.43	NO	0.9051	1.000	31.51	1.000	10.2	102	0.0400	10.2
3	1.2.3.4.7.8.HxCDD	5.94e4	1.24	NO	1.0334	1.000	34.88	1.000	16.2	102	0.0531	16.2
4	1.2.3.7.8.HxCDD	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.HxCDD	7.01e4	1.26	NO	0.9269	1.000	35.26	1.000	18.1	105	0.0670	18.1
6	1.2.3.4.7.8.HxCDD	7.99e4	1.02	NO	0.8839	1.000	35.80	1.000	18.4	104	0.0797	18.4
7	CDD	9.89e4	0.39	NO	0.9136	1.000	41.75	1.000	21.0	105	0.1169	21.0
8	1.2.3.7.8.HxCDF	2.87e4	0.74	NO	0.7510	1.000	35.60	1.001	1.91	98.8	0.0211	1.91
9	1.2.3.7.8.HxCDF	1.31e5	1.58	NO	0.8025	1.000	36.23	1.000	10.7	107	0.0217	10.7
10	1.2.3.4.7.8.HxCDF	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	34.01	1.001	10.5	106	0.0561	10.5
12	1.2.3.6.7.8.HxCDF	9.26e4	1.28	NO	0.8852	1.000	34.12	1.000	11.3	103	0.0595	11.3
13	1.2.3.7.8.HxCDF	8.13e4	1.21	NO	0.9191	1.000	34.71	1.000	10.5	105	0.0693	10.5
14	1.2.3.7.8.HxCDF	6.49e4	1.14	NO	0.9727	1.000	35.62	1.000	10.3	102	0.0961	10.3
15	1.2.3.4.7.8.HxCDF	3.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16	1.2.3.4.7.8.HxCDF	4.43e4	1.01	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0881	10.4
17	CDF	5.58e4	0.36	NO	0.8055	1.000	41.90	1.000	26.3	103	0.0967	26.3
18	1.2.3.7.8.HxCDD	1.31e5	0.79	NO	1.1562	1.000	26.14	1.025	39.0	99.8	0.0819	39.0
19	1.2.3.7.8.HxCDF	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	0.7750	1.000	24.97	1.014	87.0	97.2	0.149	87.0
21	1.2.3.4.7.8.HxCDD	6.19e5	1.38	NO	1.0167	1.000	24.97	1.017	84.7	94.7	0.146	84.7





#	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	3.98	101	0.0079	2.01
2	1,2,3,7,8-PeCDD	5.55e4	0.80	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	1.01e4	1.24	NO	0.8921	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	0.0191	10.4
7	CDD	3.89e4	0.89	NO	0.9130	1.000	41.75	1.000	21.0	105	3.100	21.0
8	1,2,3,6,7,8-HxCDF	2.87e4	0.74	NO	0.7510	1.000	25.09	1.001	1.91	98.6	0.0231	1.91
9	1,2,3,7,8-HxCDF	1.31e4	1.55	NO	0.9225	1.000	30.21	1.000	10.7	101	0.0517	10.7
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-HxCDF	7.91e4	1.20	NO	0.8545	1.000	34.01	1.001	10.5	100	0.0683	10.5
12	1,2,3,6,7,8-HxCDF	4.26e4	1.25	NO	0.9092	1.000	34.12	1.000	10.2	103	0.0590	10.2
13	1,2,3,6,7,8-HxCDF	8.51e4	1.25	NO	0.9341	1.000	34.71	1.000	10.3	105	0.0600	10.3
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8787	1.000	35.81	1.000	10.3	102	0.0601	10.3
15	1,2,3,4,6,7,8-HpCDF	1.72e4	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	30.38	1.000	10.4	104	0.0601	10.4
17	CDF	3.66e4	0.60	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-TCDF	1.31e4	0.79	NO	1.1560	1.000	26.54	1.025	19.0	89.5	0.0663	
19	1,2,3,6,7,8,9-HxCDF	9.29e4	0.83	NO	0.9420	1.000	31.08	1.216	98.0	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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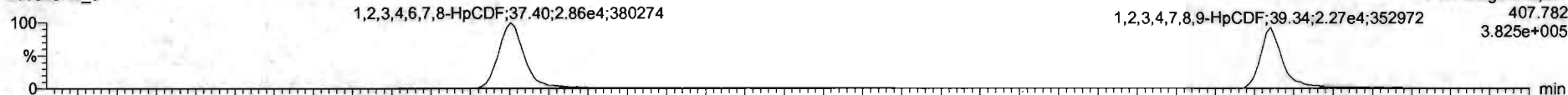
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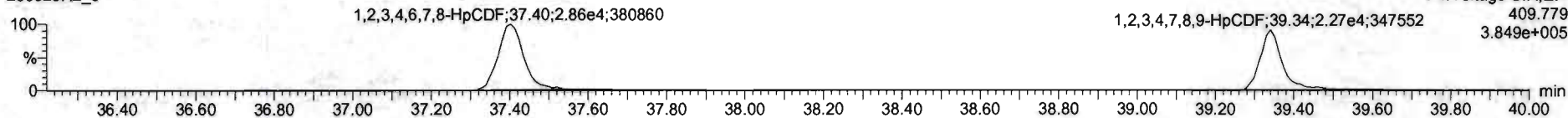
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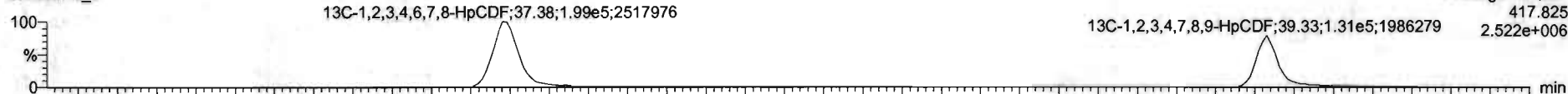


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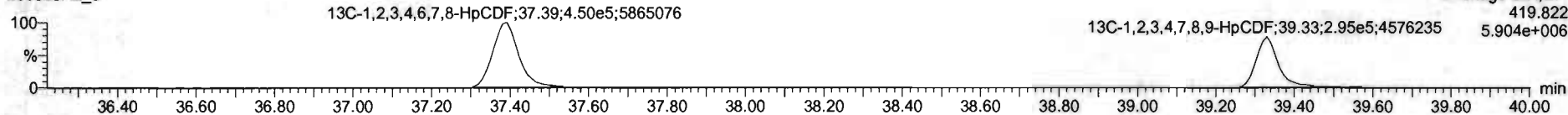


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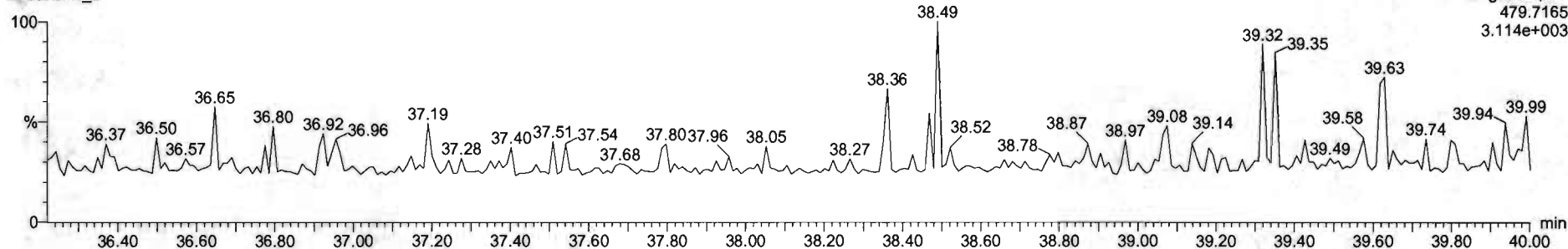


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DPE4

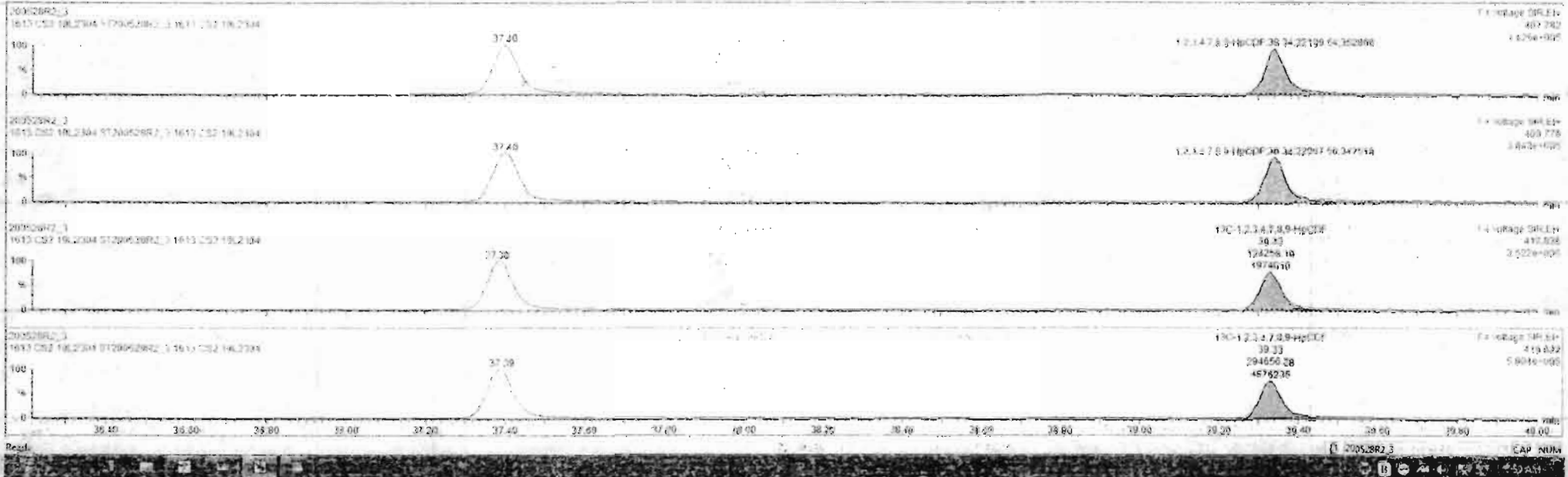
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1613 CS2 19.2304

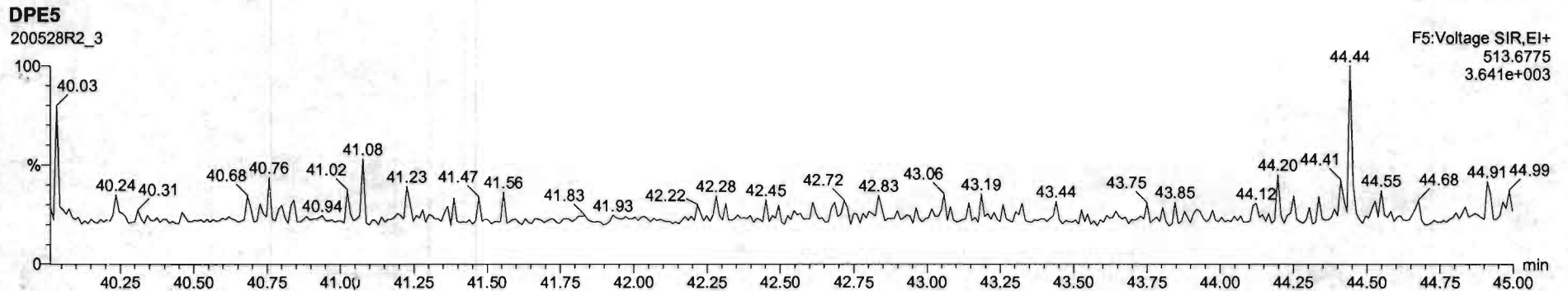
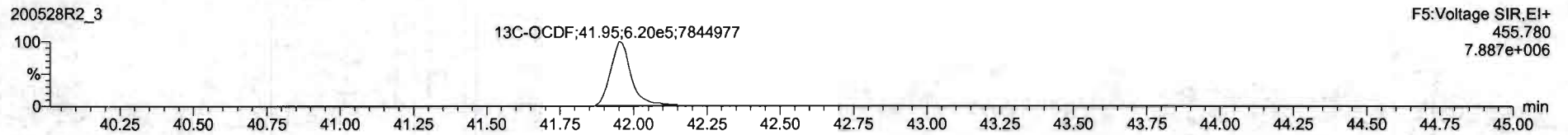
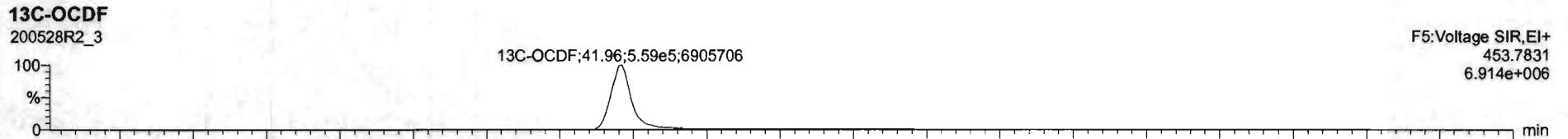
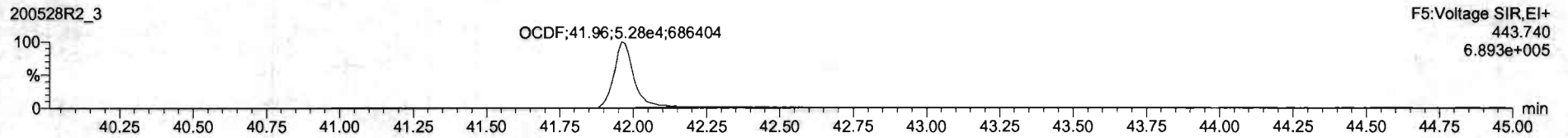
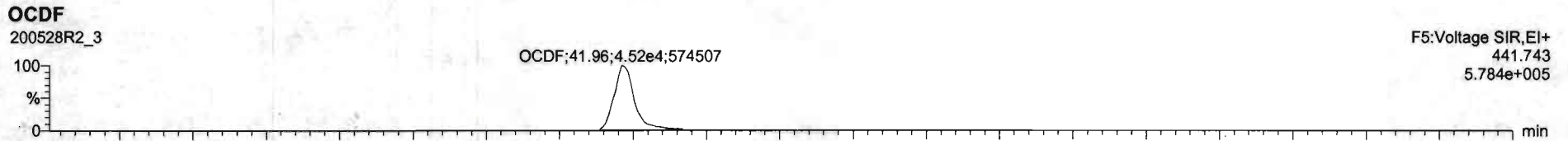
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2	1,2,3,7,8-PeCDF	1.58e4	0.03	NO	0.9091	1.00	31.01	1.00	10.0	107	0.0400	10.0
3	1,2,3,4,7,8-HxCDF	8.9e4	1.24	NO	1.0334	1.00	34.05	1.00	10.0	107	0.0501	10.0
4	1,2,3,6,7,8-HxCDF	8.01e4	1.04	NO	0.9623	1.00	34.36	1.00	10.0	107	0.0559	10.0
5	1,2,3,7,8-HxCDF	2.11e4	1.26	NO	0.9899	1.00	35.26	1.00	10.0	107	0.0579	10.0
6	1,2,3,4,6,7,8-HpCDF	1.96e4	1.02	NO	0.9699	1.00	35.90	1.00	10.0	104	0.0792	10.0
7	OCDF	0.59e4	0.09	NO	0.9126	1.00	31.75	1.00	21.0	105	0.109	21.0
8	1,2,3,6,7,8-HxCDF	2.77e4	0.74	NO	0.9710	1.00	25.00	1.00	1.97	96.8	0.0101	1.97
9	1,2,3,7,8-HxCDF	1.15e4	1.90	NO	0.9902	1.00	30.23	1.00	10.0	107	0.0517	10.0
10	1,2,3,4,7,8-HxCDF	1.15e4	1.05	NO	0.9340	1.00	31.41	1.00	10.0	104	0.0475	10.0
11	1,2,3,4,7,8-HxCDF	2.91e4	1.02	NO	0.9640	1.00	34.05	1.00	10.0	106	0.0651	10.0
12	1,2,3,6,7,8-HxCDF	1.28e4	1.08	NO	0.9542	1.00	34.12	1.00	10.0	103	0.0595	10.0
13	1,2,3,4,7,8-HxCDF	8.53e4	1.05	NO	0.9341	1.00	34.71	1.00	10.0	105	0.0690	10.0
14	1,2,3,7,8-HxCDF	8.49e4	1.24	NO	0.9707	1.00	31.92	1.00	10.0	103	0.0661	10.0
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.9324	1.00	37.40	1.00	10.0	101	0.0826	10.0
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.03	NO	1.0120	1.00	30.34	1.00	10.0	104	0.0681	10.0
17	OCDF	9.86e3	0.00	NO	0.9060	1.00	41.30	1.00	26.6	103	0.0847	26.6
18	1,2,3,4,6,7,8-HpCDF	1.31e4	0.76	NO	1.1503	1.00	26.34	1.00	50.0	39.5	0.0850	50.0
19	1,2,3,4,7,8,9-HpCDF	9.39e3	0.03	NO	0.9490	1.00	31.90	1.00	20.0	80.0	0.123	20.0
20	1,2,3,4,7,8,9-HpCDF	8.61e3	1.27	NO	0.7790	1.00	34.87	1.00	67.0	87.0	0.109	67.0
21	1,2,3,4,6,7,8-HpCDF	6.39e3	1.28	NO	1.0167	1.00	34.07	1.00	34.7	34.7	0.140	34.7



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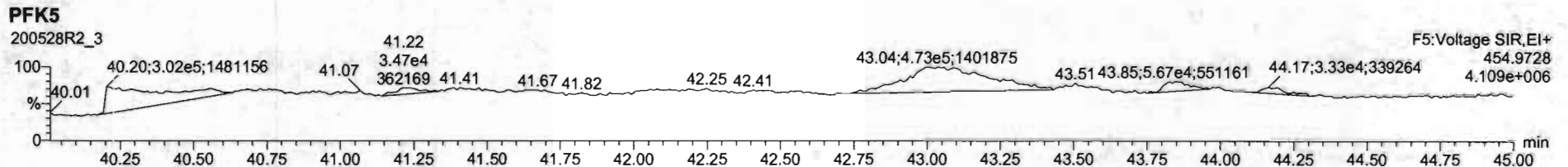
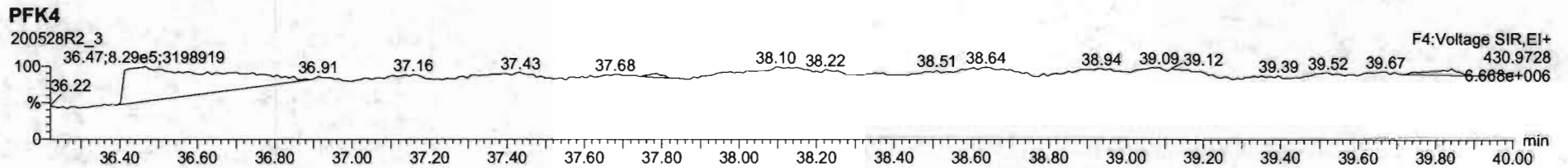
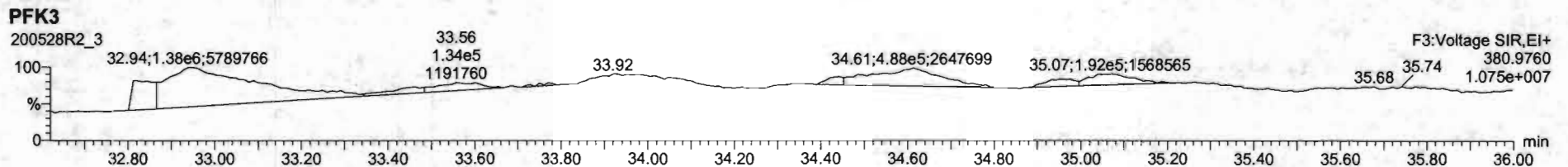
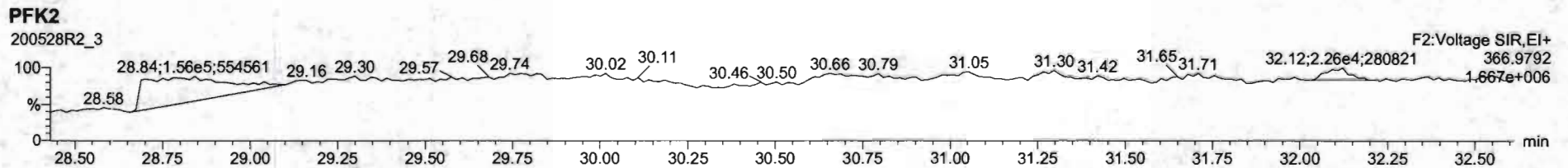
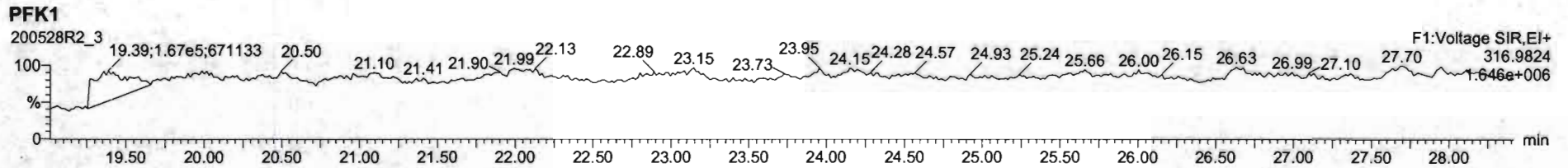


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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

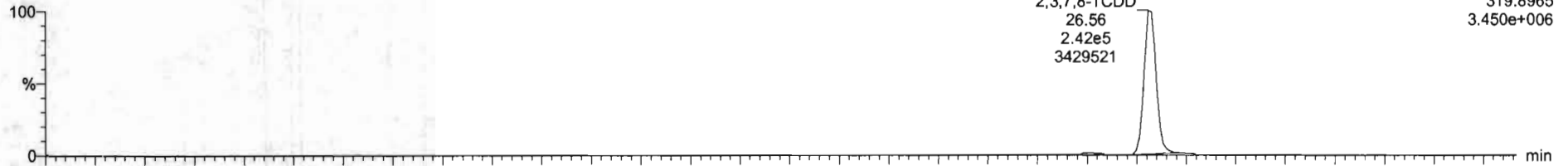
Name: 200528R2_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDD

200528R2_4

2,3,7,8-TCDD
26.56
2.42e5
3429521

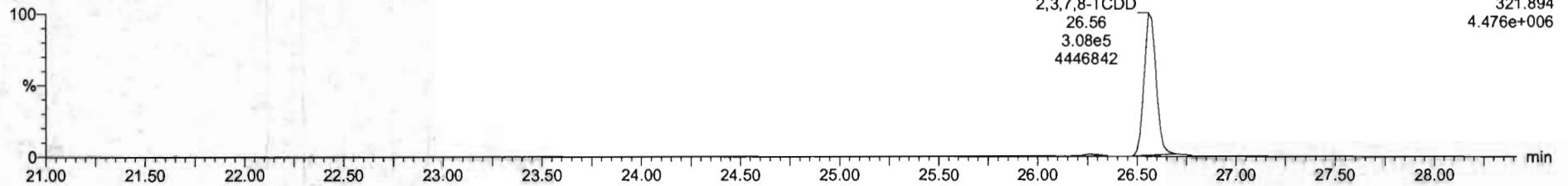
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319.8965
3.450e+006



200528R2_4

2,3,7,8-TCDD
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F1:Voltage SIR,EI+
321.894
4.476e+006



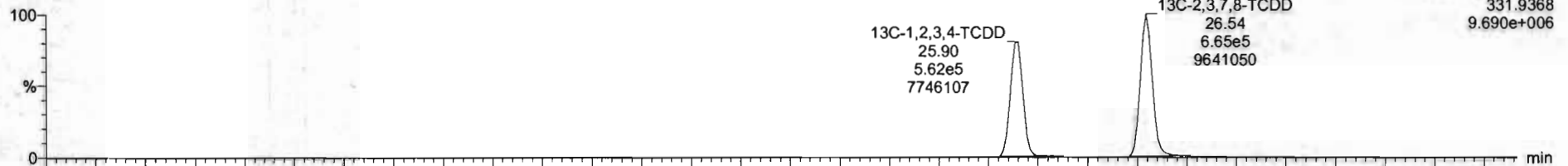
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13C-1,2,3,4-TCDD
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5.62e5
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13C-2,3,7,8-TCDD
26.54
6.65e5
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331.9368
9.690e+006

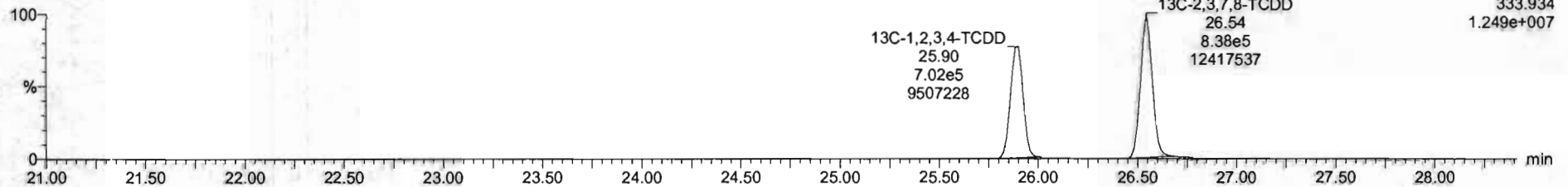


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7.02e5
9507228

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F1:Voltage SIR,EI+
333.934
1.249e+007



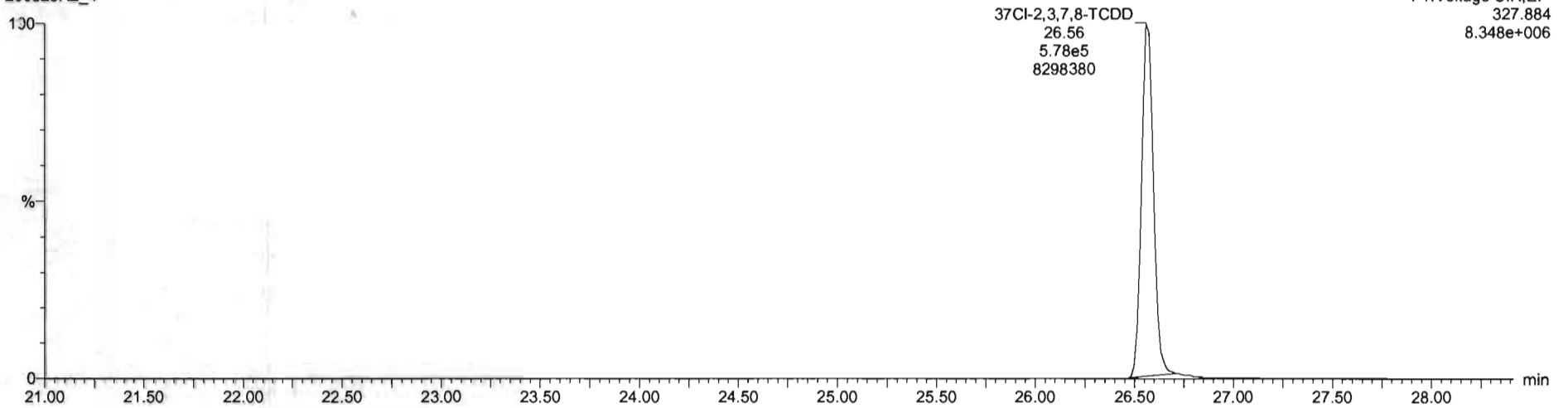
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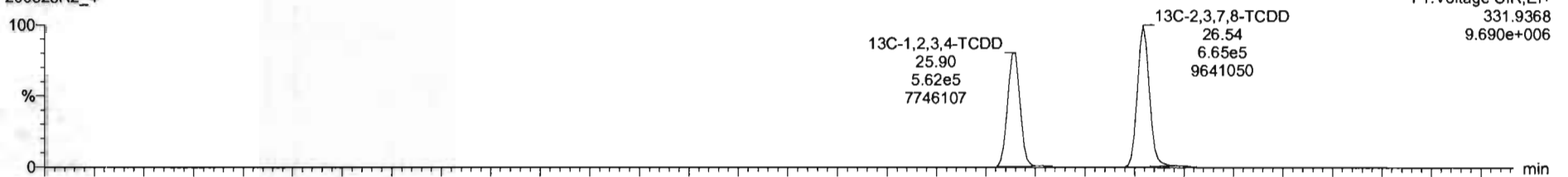
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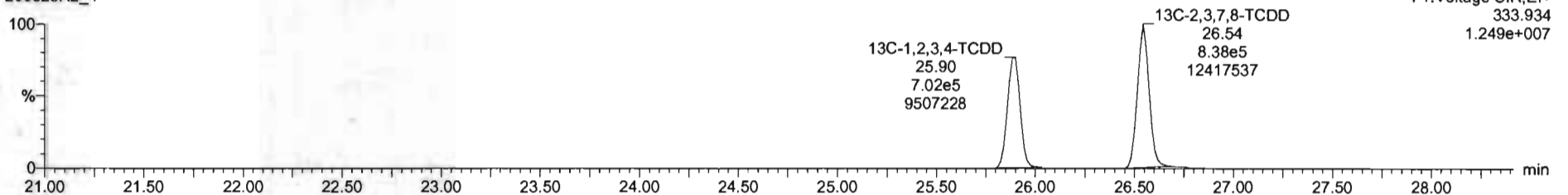


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200528R2_4



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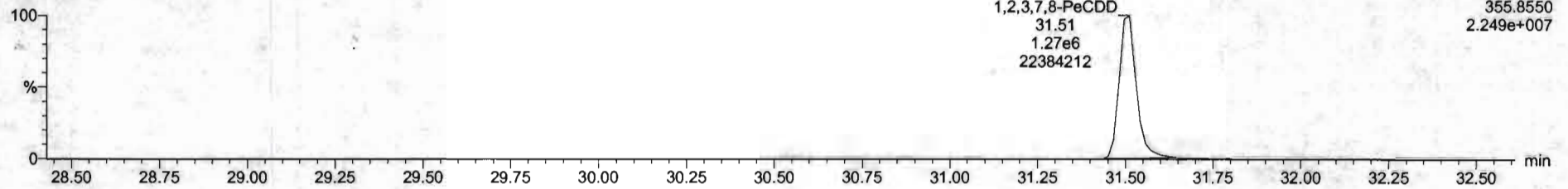
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1,2,3,7,8-PeCDD

200528R2_4

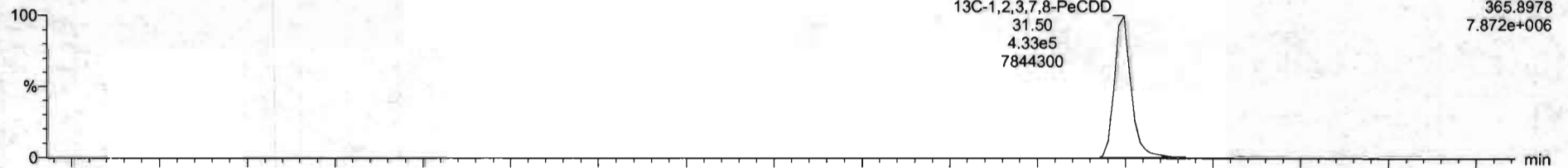


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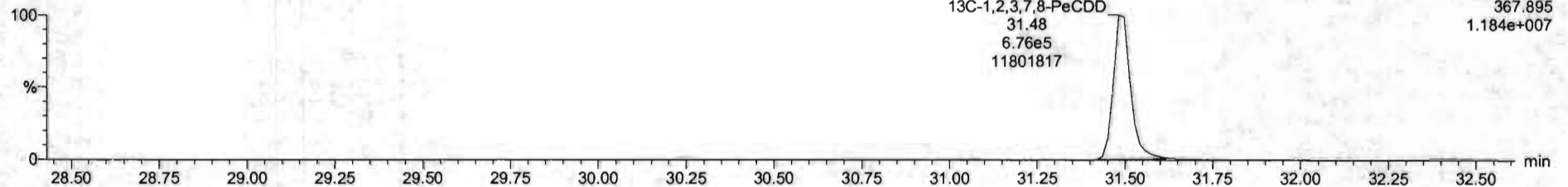


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200528R2_4



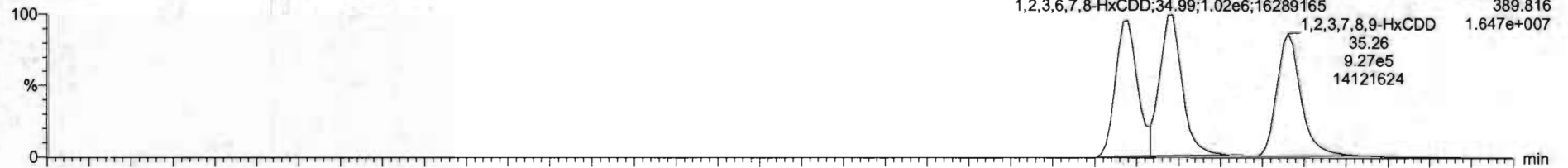
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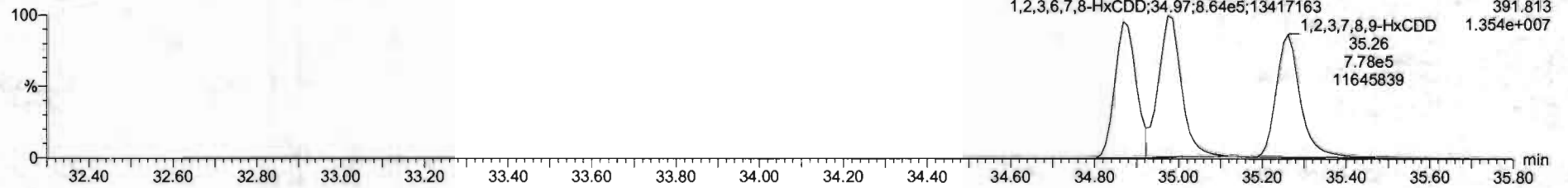
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1,2,3,4,7,8-HxCDD

200528R2_4

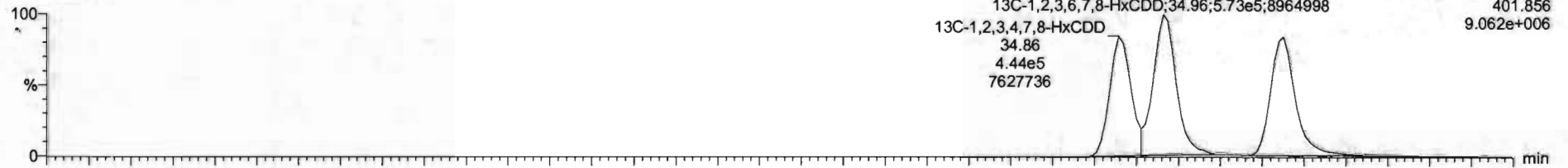


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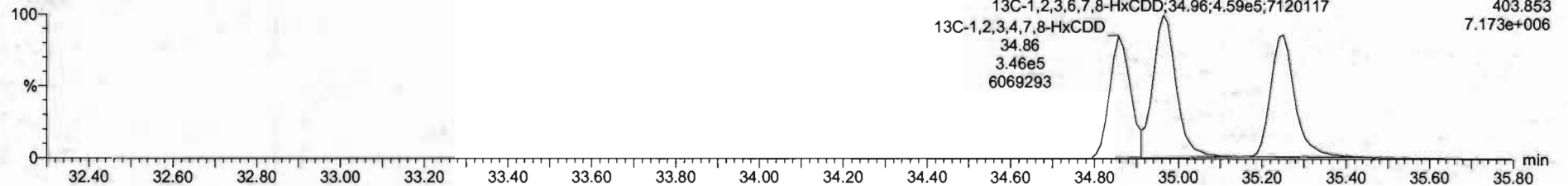


13C-1,2,3,4,7,8-HxCDD

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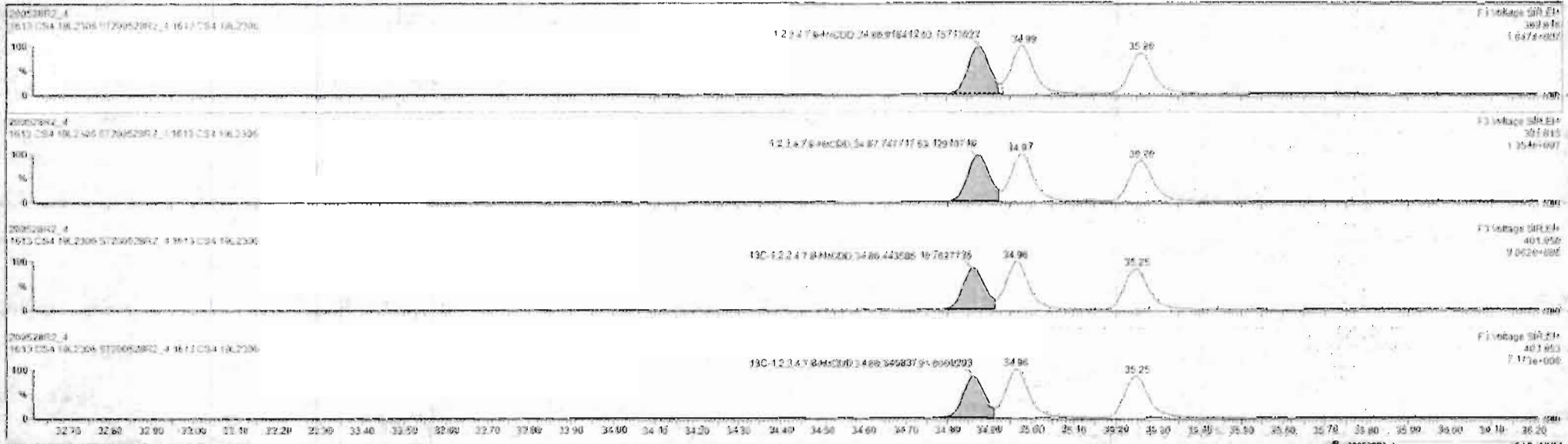


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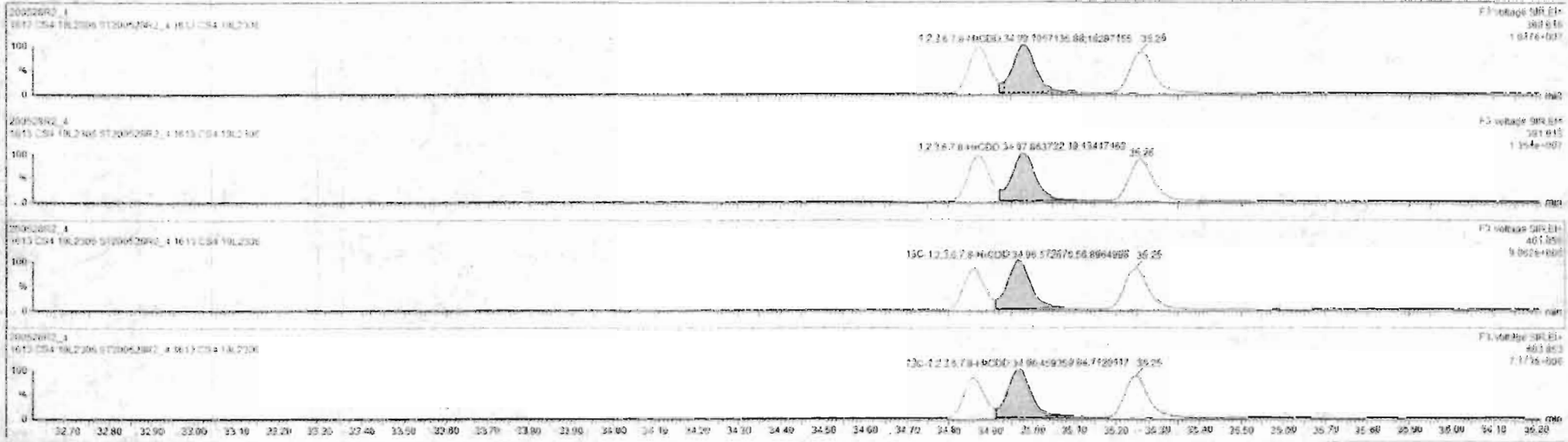




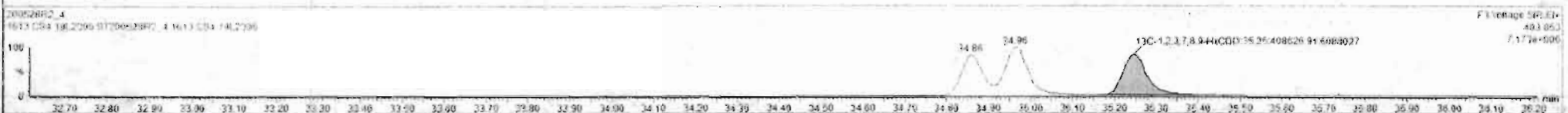
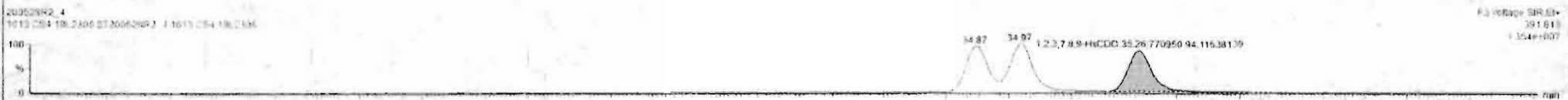
K1	Name	ResP	RA	n/y	RRF	inVol	RT	RRT	Conc	%Rec	DL	EMPC
1	1.2.3.7.8-TCDD	2.50e6	0.78	NO	0.882	1.000	26.99	1.001	41.2	101	0.129	41.2
2	1.2.3.7.8-HxCDD	2.25e6	0.83	NO	0.9091	1.000	31.51	1.000	205	102	0.0837	205
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0394	1.000	34.86	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	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	0.133	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	0.218	211
7	OCDD	2.45e6	0.27	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	1.2.3.6.7.8-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	1.0127	1.000	34.96	1.017	104	104	0.121	



#	Name	Keep	RA	RY	RF	Wt/Wt	RT	RRT	Conc	Wt/Wt	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	1.0734	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	399	104	0.119	398
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	1.2.3.7.8-HxCDD	1.11e6	0.84	NO	0.0490	1.000	31.00	1.210	103	103	0.170	103
20	1.2.3.4.7.8-HxCDD	7.39e6	1.25	NO	0.7790	1.000	34.06	1.014	103	103	0.172	103
21	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	wlvol	RT	RRT	Coef	%Rec	DL	IMP
1	1,2,3,7,8-TCDF	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-PeCDD	2.36e6	0.43	NO	0.8051	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,4,7,8-HxCDF	1.67e6	1.22	NO	1.0334	1.000	34.55	1.001	204	102	0.115	204
4	1,2,3,6,7,8-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-HpCDE	1.25e6	1.62	NO	0.8830	1.000	38.50	1.000	211	105	0.133	211
7	OCDF	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.100	397
8	1,2,3,6-TCDF	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-HpCDF	2.06e6	1.54	NO	0.9345	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.67e6	1.16	NO	0.8845	1.000	33.95	1.000	200	104	0.221	200
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-HpCDF	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	200	104	0.313	200
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	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-TCDF	1.56e6	0.75	NO	1.1583	1.000	28.54	1.025	103	103	0.164	
19	1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.139	
20	1,2,3,4,7,8-HxCDE	7.89e6	1.28	NO	0.7798	1.000	34.96	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HpCDD	1.03e6	1.35	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



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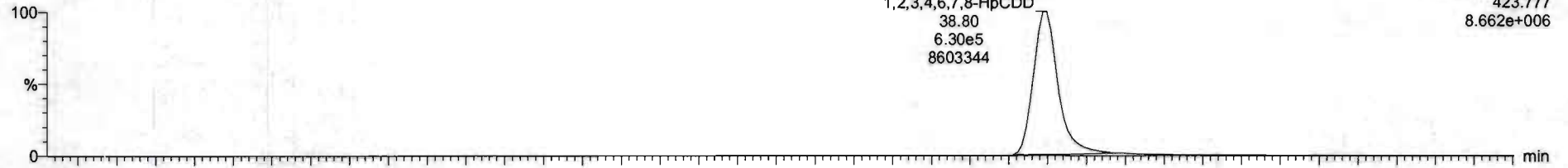
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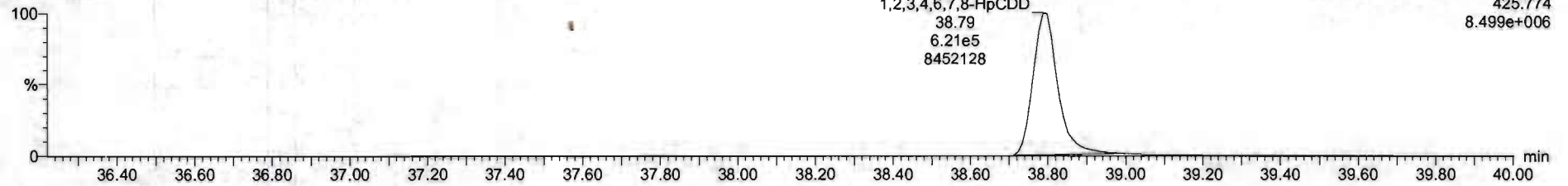
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1,2,3,4,6,7,8-HpCDD

200528R2_4

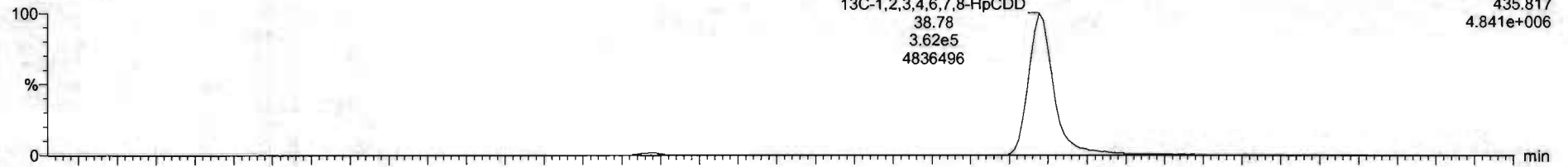


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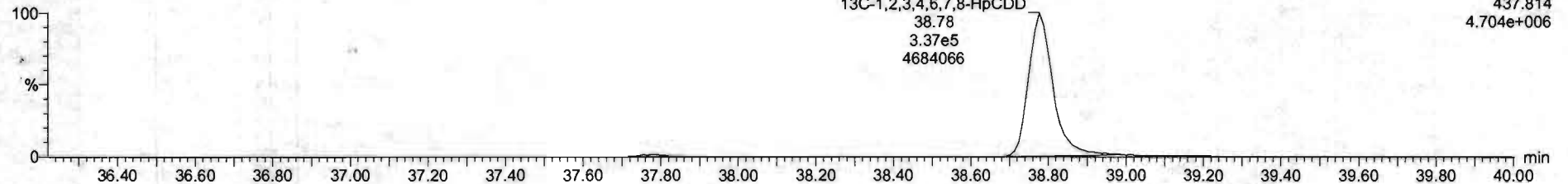


13C-1,2,3,4,6,7,8-HpCDD

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	2,3,4,6,7,8-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	0.8490	1.000	31.30	1.216	103	103	0.139	
20	1,2,3,4,7,8-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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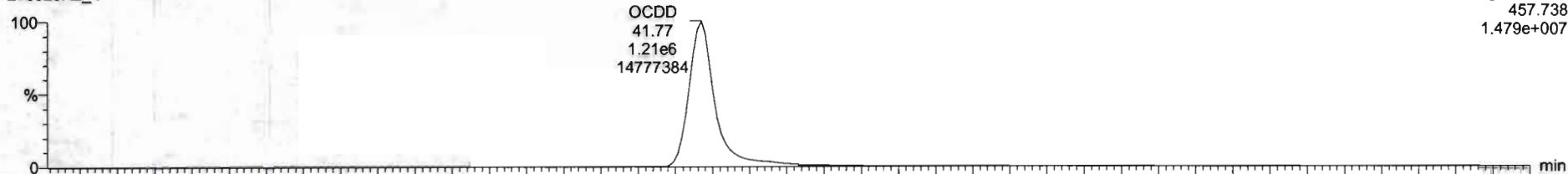
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

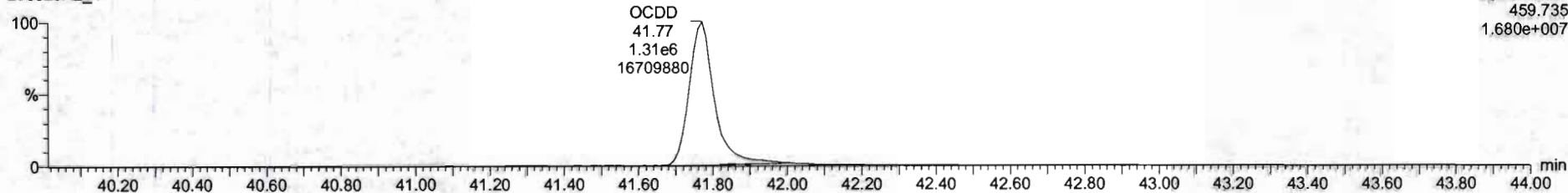
OCDD

200528R2_4



F5: Voltage SIR, EI+
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1.479e+007

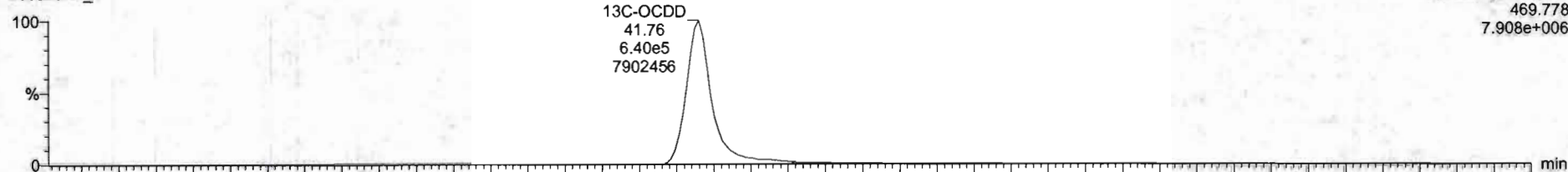
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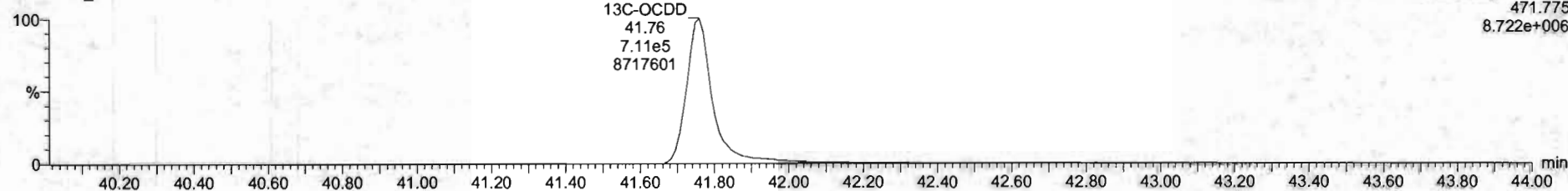
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200528R2_4



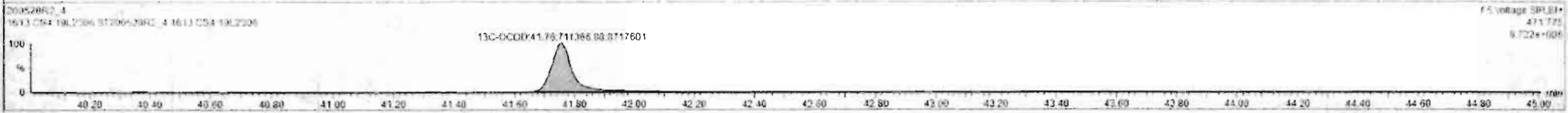
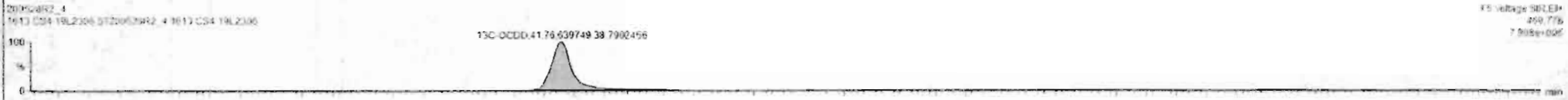
F5: Voltage SIR, EI+
469.778
7.908e+006

200528R2_4



F5: Voltage SIR, EI+
471.775
8.722e+006

#	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	36.90	1.000	211	105	0.110	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	28.66	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.9905	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	0.8062	1.000	34.12	1.001	200	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	0.79	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	31.50	1.216	103	103	0.130	
20	13C-1.2.3.4.7.8-HxCDD	7.88e5	1.28	NO	0.7790	1.000	34.96	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	



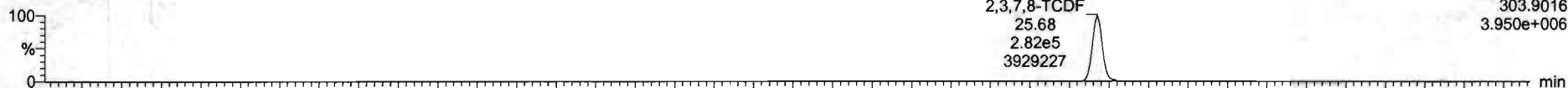
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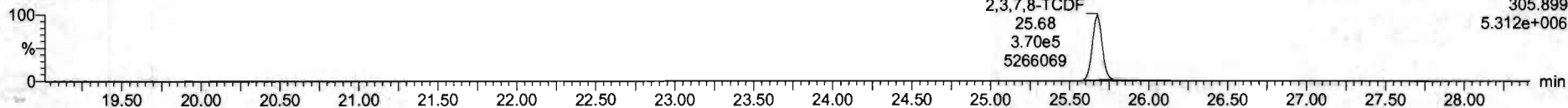
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2,3,7,8-TCDF

200528R2_4

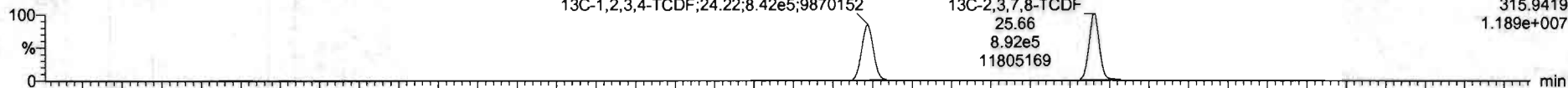


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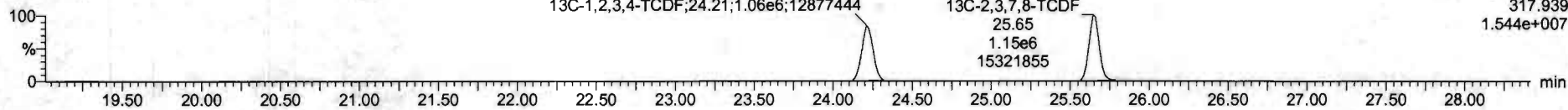


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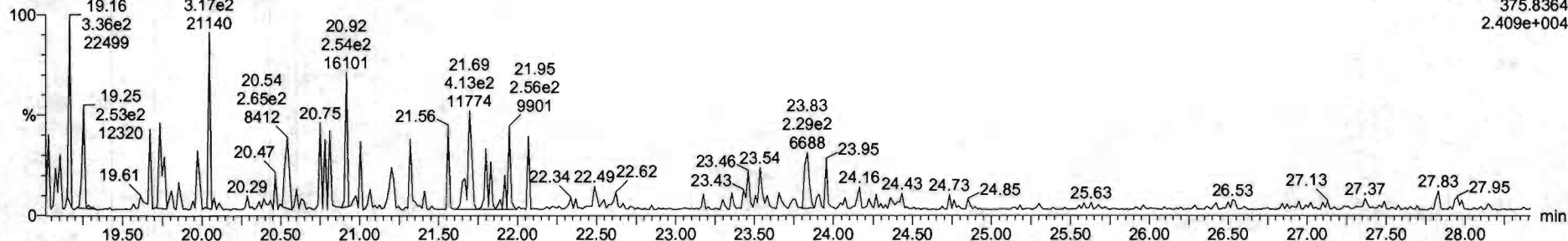


200528R2_4



DPE1

200528R2_4

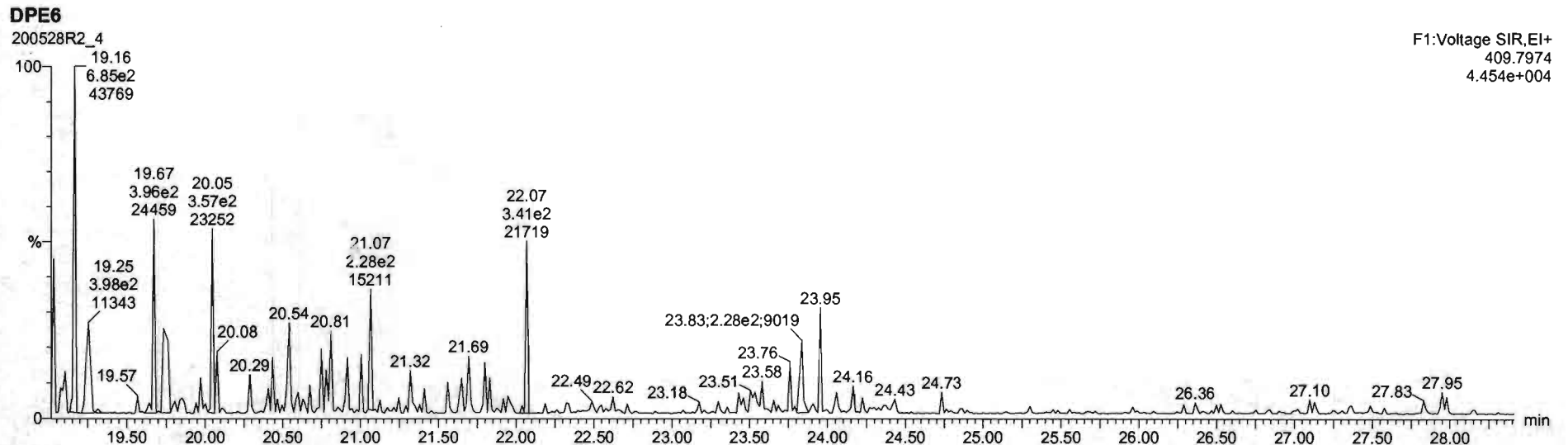
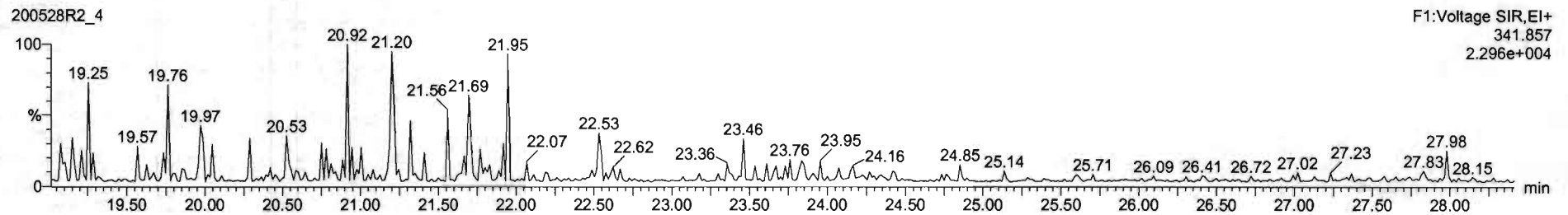
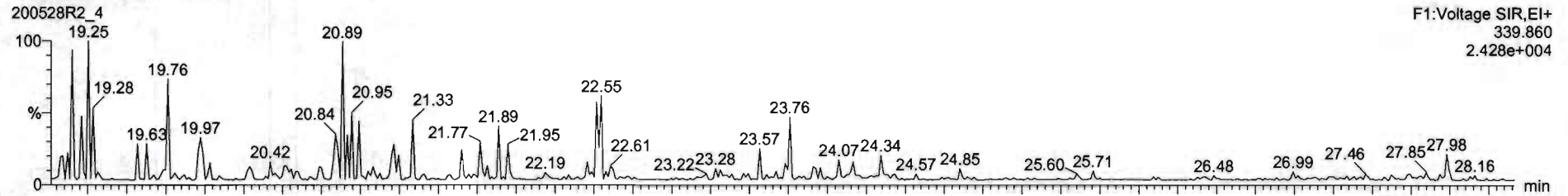


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Name: 200528R2_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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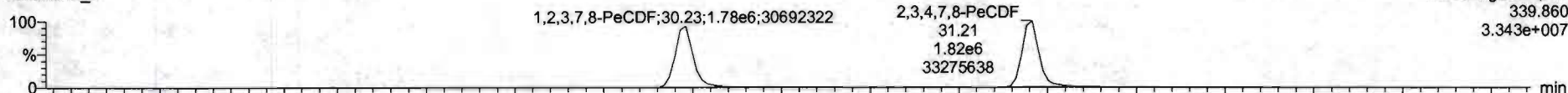
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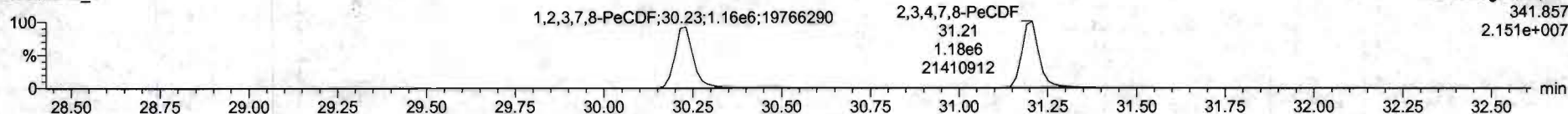
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1,2,3,7,8-PeCDF

200528R2_4

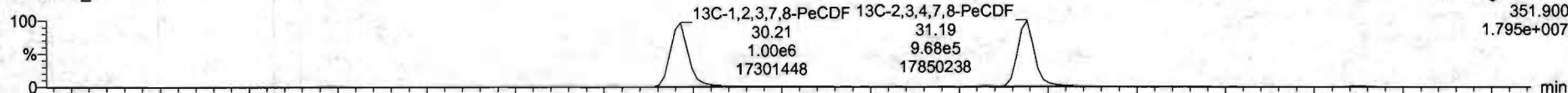


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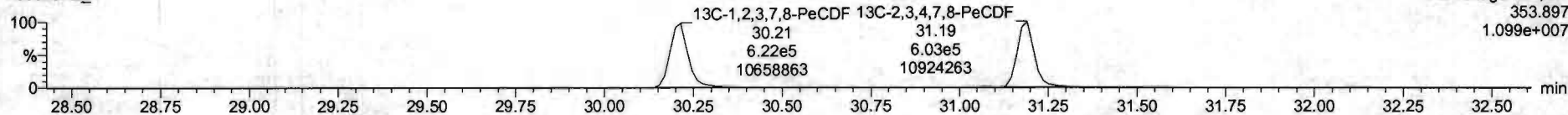


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200528R2_4

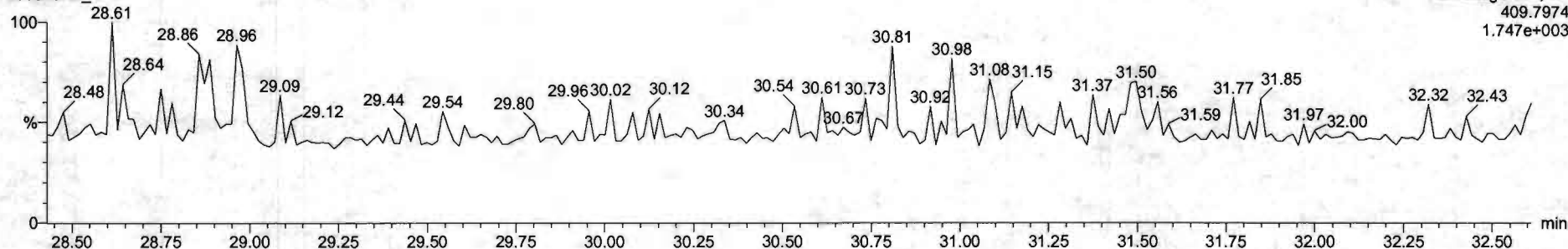


200528R2_4



DPE2

200528R2_4



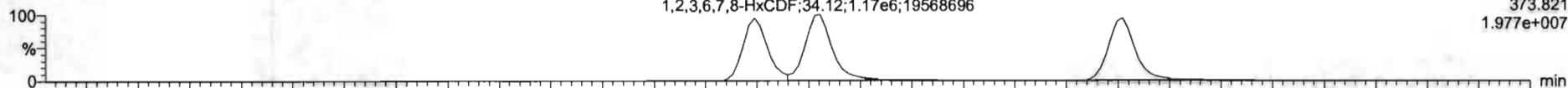
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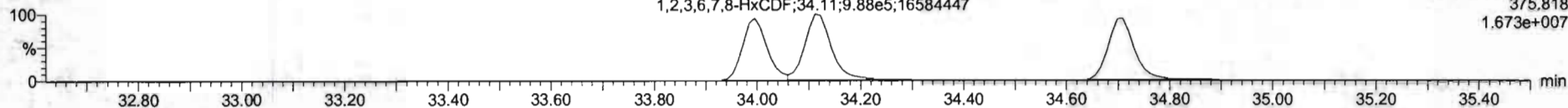
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1,2,3,4,7,8-HxCDF

200528R2_4

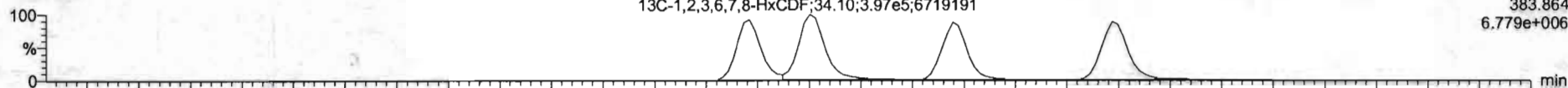


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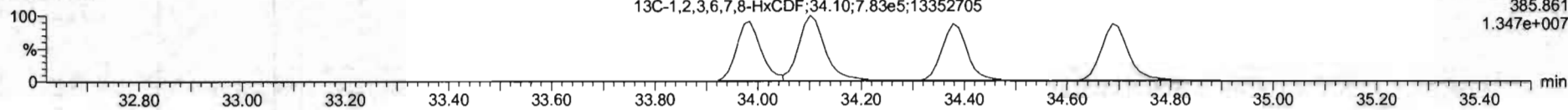


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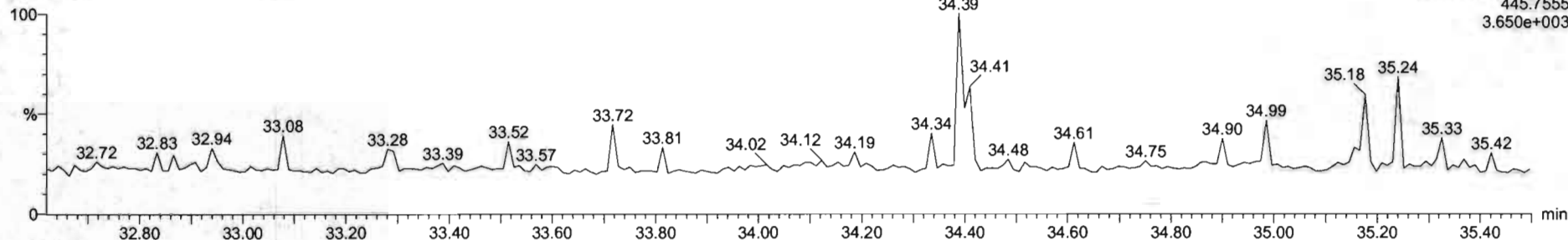


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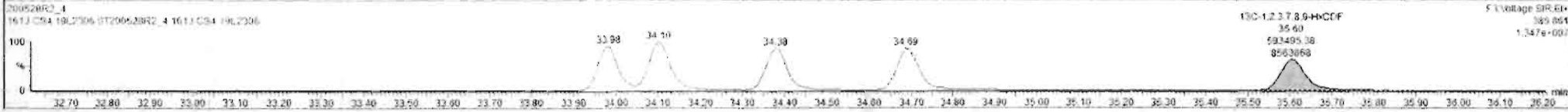
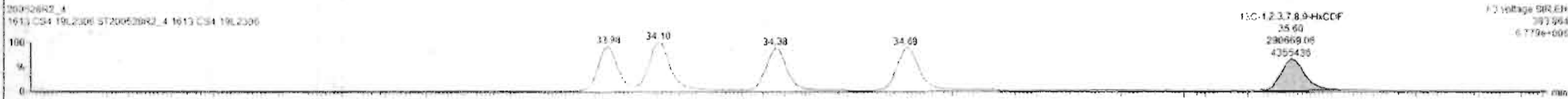


DPE3

200528R2_4



#	Name	Resp	RA	ntf	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	ERFC
1	1.2.3.7.8-TCDD	3.56e5	0.78	NO	0.2882	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	210	105	0.133	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.8639	1.000	36.86	1.000	211	106	0.128	211
7	OCDD	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-TCDF	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	30.23	1.000	283	101	0.118	283
10	1.2.3.4.7.8-HxCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	105	0.199	204
11	1.2.3.4.7.8.9-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.95	1.000	208	104	0.221	208
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	1.2.3.4.6.7.8-HpCDF	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	0.8787	1.000	35.62	1.001	200	104	0.313	200
15	1.2.3.4.6.7.8-HpCDF	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-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.32	1.000	214	107	0.221	214
17	OCDF	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-TCDD	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	34.98	1.013	104	104	0.121	



Custom Reporting: Select reports to generate

20052BR2_4

CAP NUM

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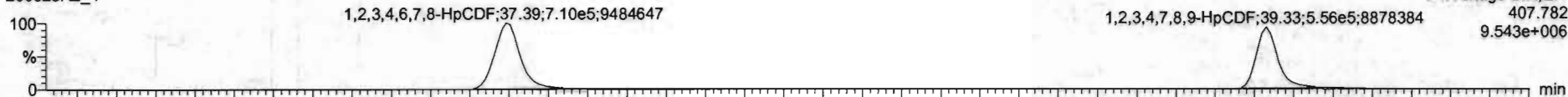
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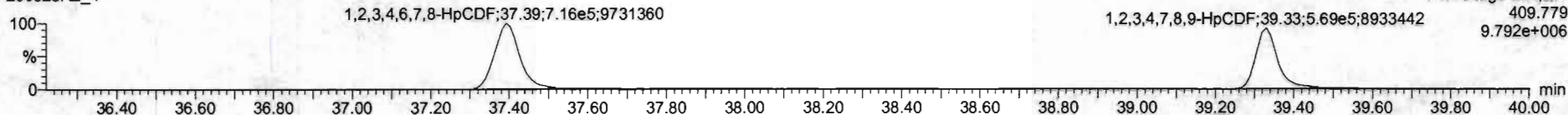
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1,2,3,4,6,7,8-HpCDF

200528R2_4

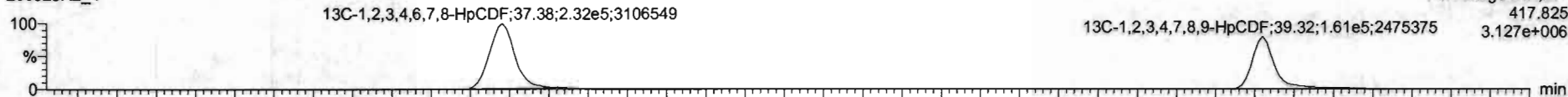


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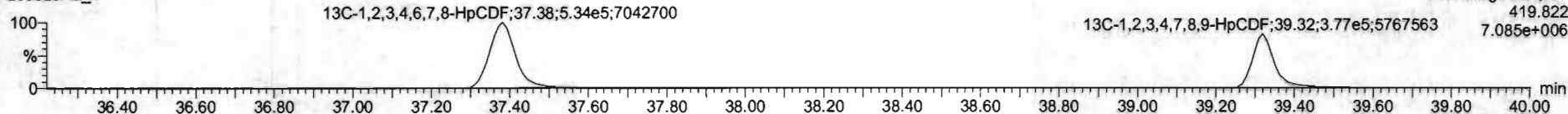


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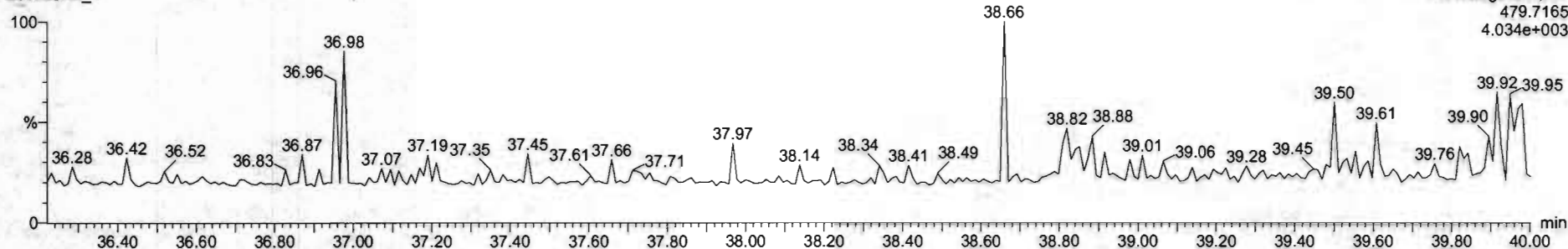


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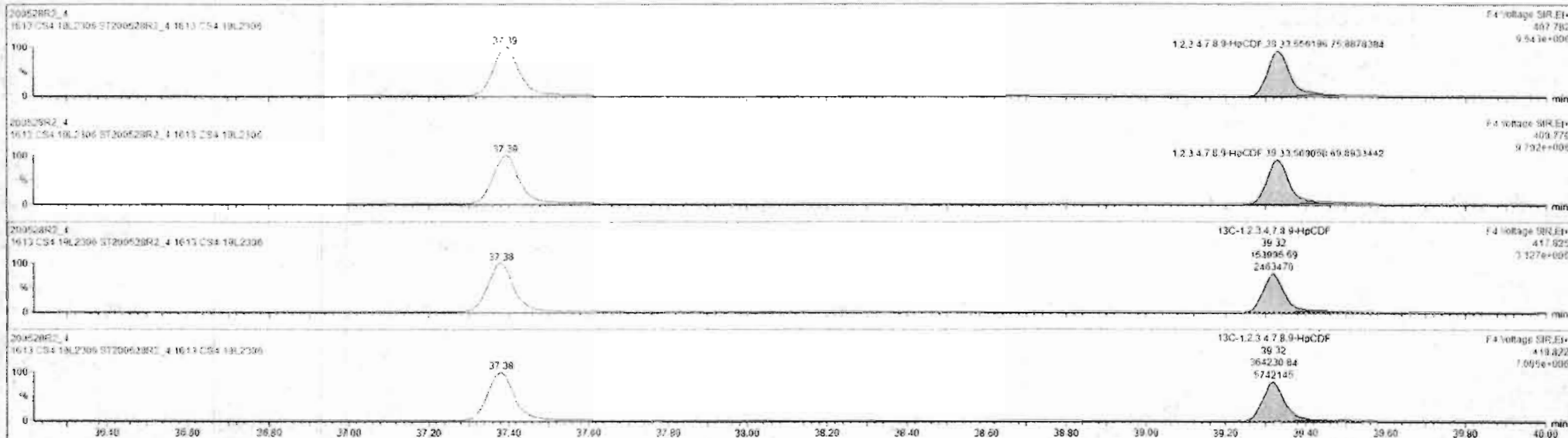


DPE4

200528R2_4



#	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.56e5	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	0.9837	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	0.8969	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	2.45e6	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	2.54e6	1.54	NO	0.8925	1.000	30.23	1.000	203	101	0.110	203
10	1,2,3,4,7,8-HxCDF	3.00e6	1.54	NO	0.9346	1.000	31.21	1.000	204	107	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	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	1.18	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	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2,3,7,8-TCDD	1.54e6	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	



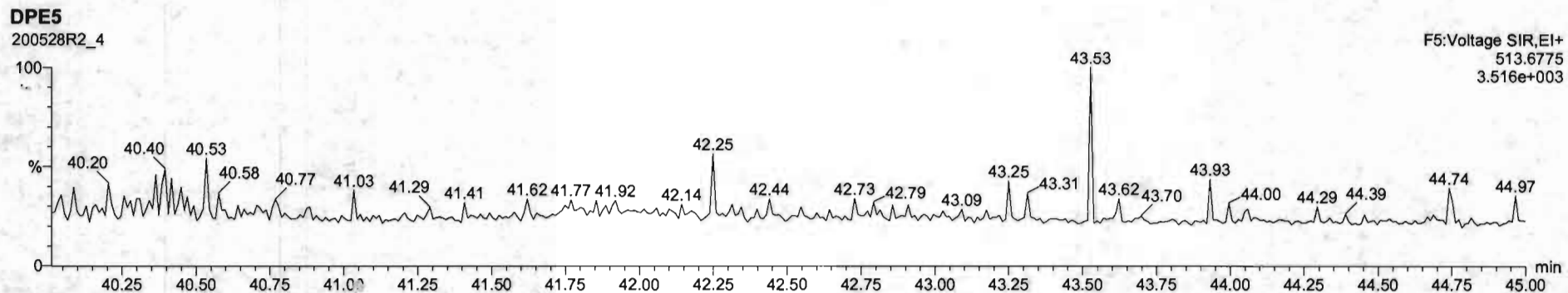
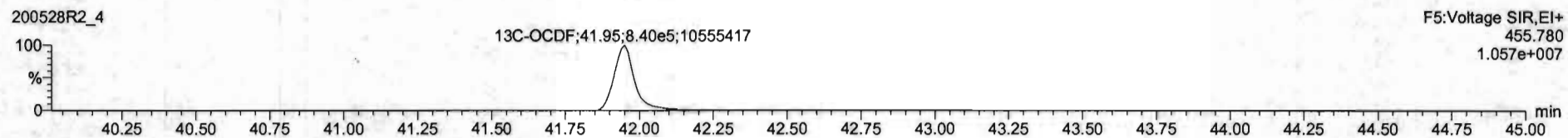
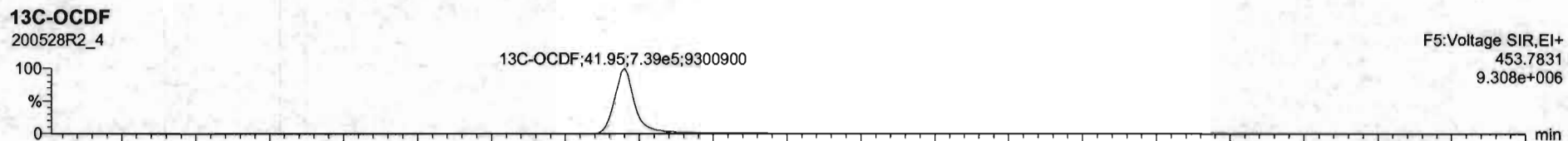
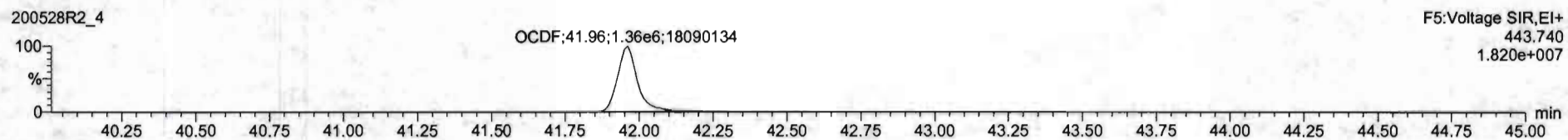
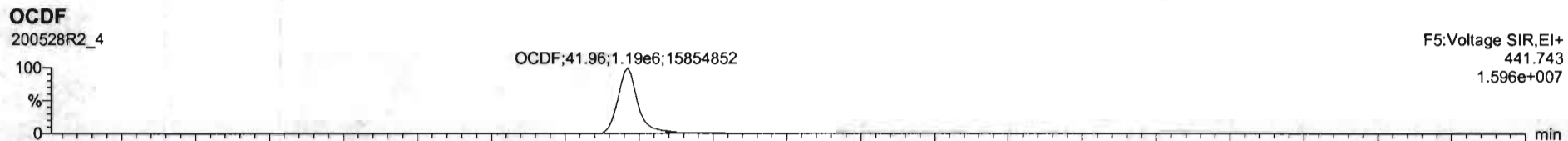
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200528R2_4 CAP NUM

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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_4, Date: 28-May-2020, Time: 14:15:50, ID: ST200528R2_4 1613 CS4 19L2306, Description: 1613 CS4 19L2306



#	Name	Resp	RA	ntf	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	1.2.3.7.5-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	0.8929	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.76e6	1.20	NO	0.8265	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	0.8633	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	1.2.3.7.8-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	36.23	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	33.99	1.000	208	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8052	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.6.7.8-HpCDF	2.08e6	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	39.33	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	1.2.3.7.8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	102	101	0.164	
19	1.2.3.4.7.8-HxCDF	0.11e6	0.84	NO	0.8496	1.000	31.50	1.216	103	103	0.130	
20	1.2.3.4.7.8-HxCDF	7.89e6	1.20	NO	0.7750	1.000	34.96	1.214	103	103	0.172	
21	1.2.3.4.7.8-HxCDF	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.121	

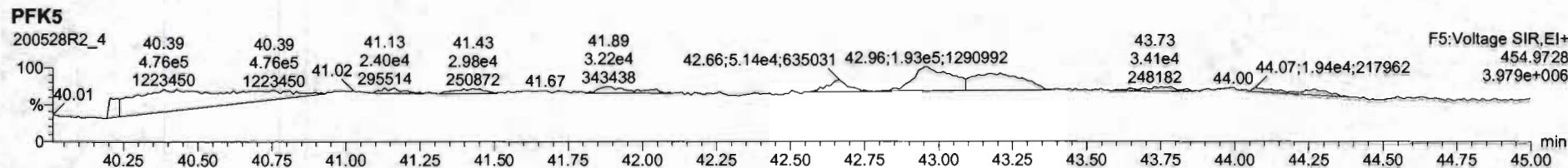
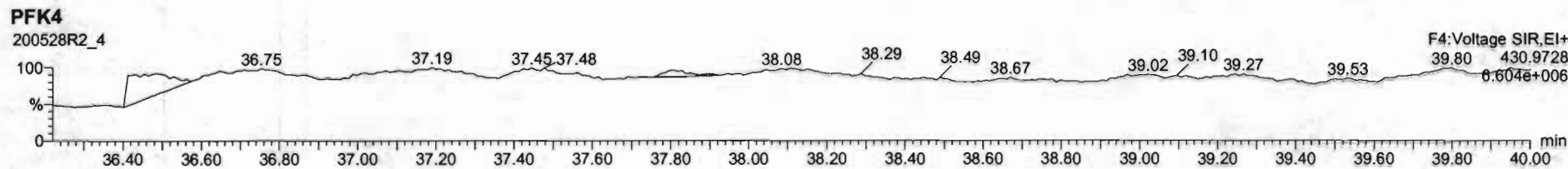
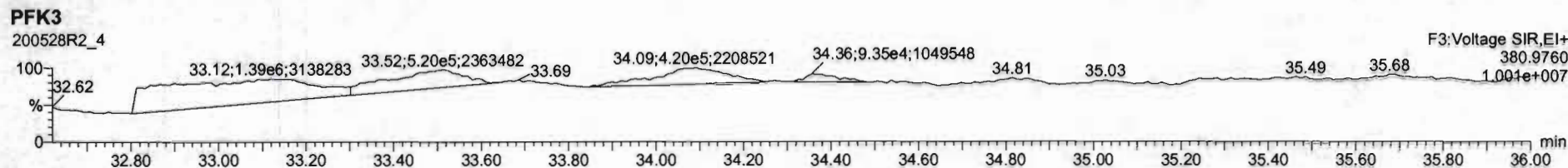
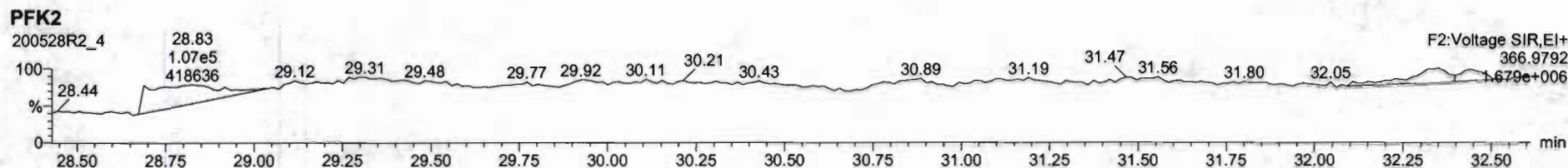
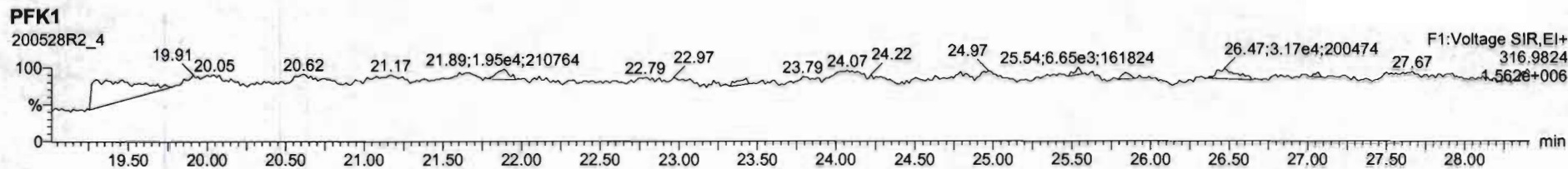


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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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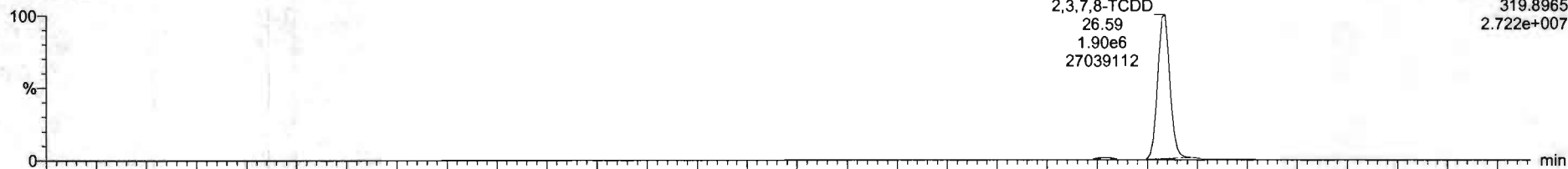
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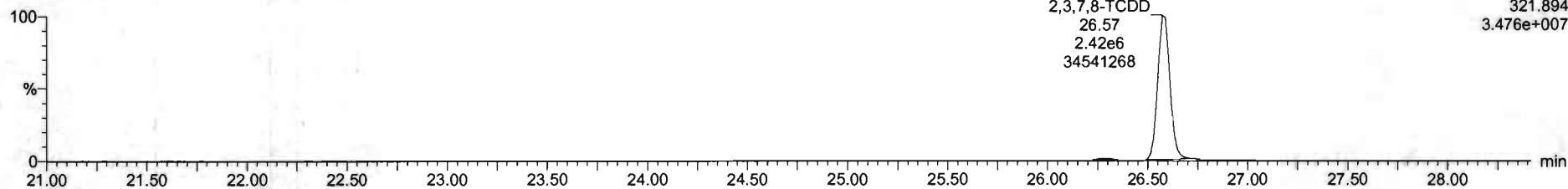
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2,3,7,8-TCDD

200528R2_5

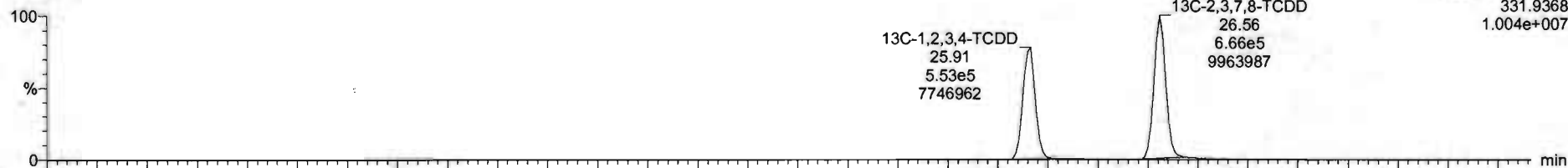


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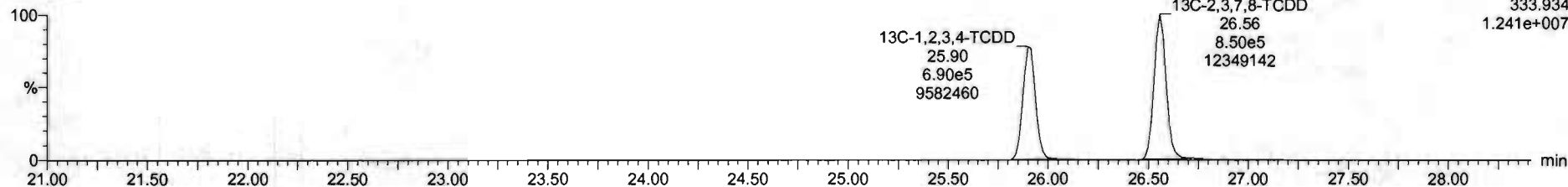


13C-2,3,7,8-TCDD

200528R2_5



200528R2_5



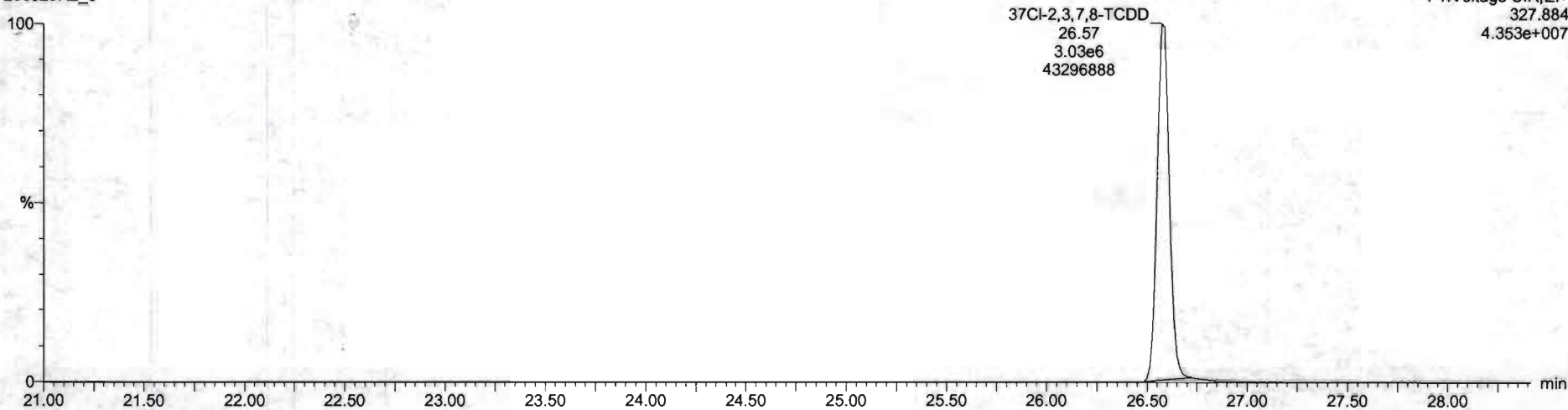
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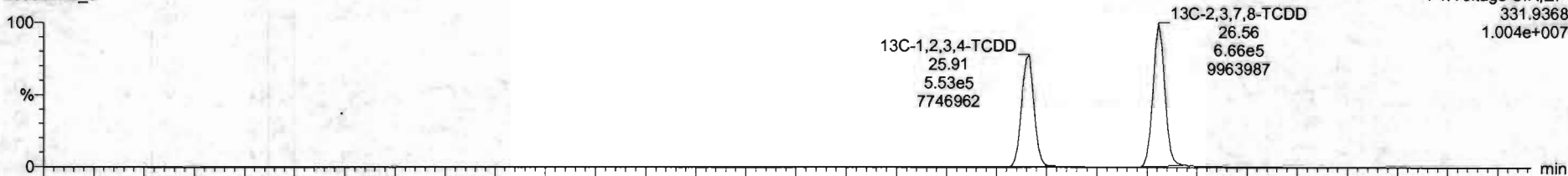
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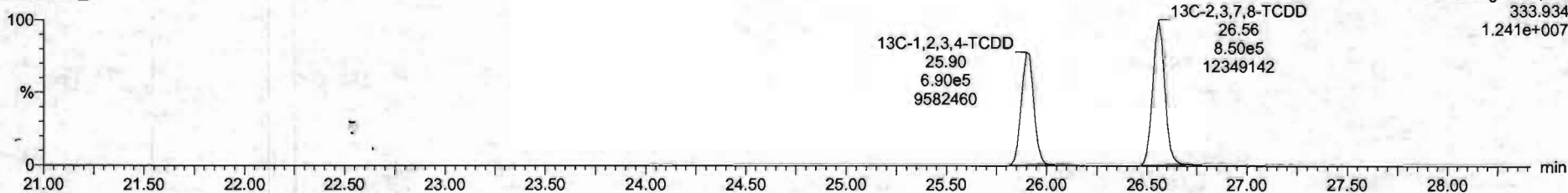


13C-1,2,3,4-TCDD

200528R2_5



200528R2_5



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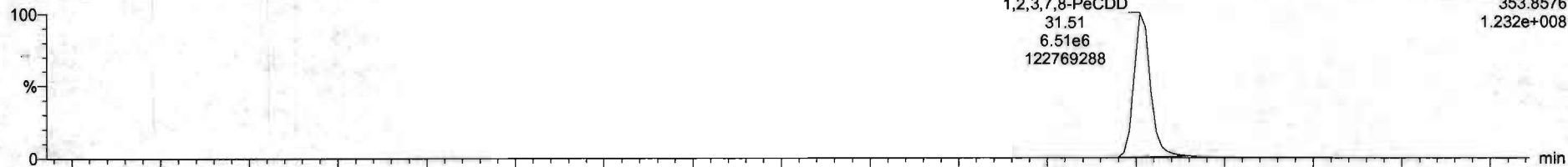
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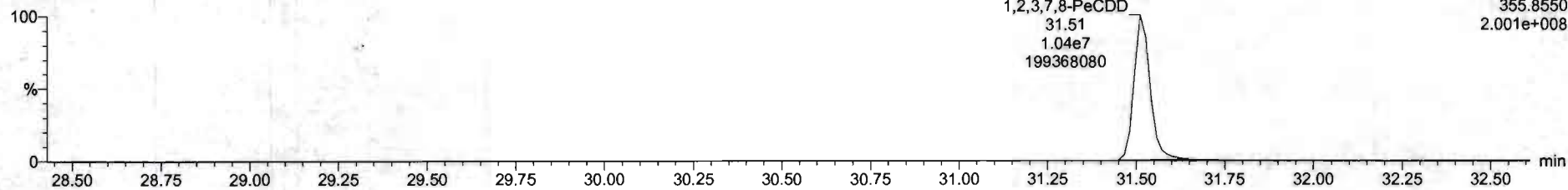
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1,2,3,7,8-PeCDD

200528R2_5

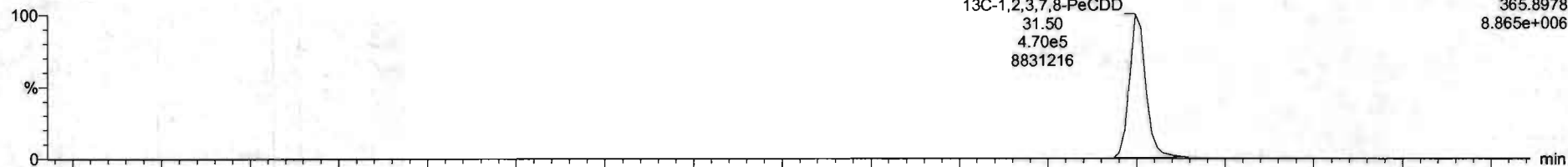


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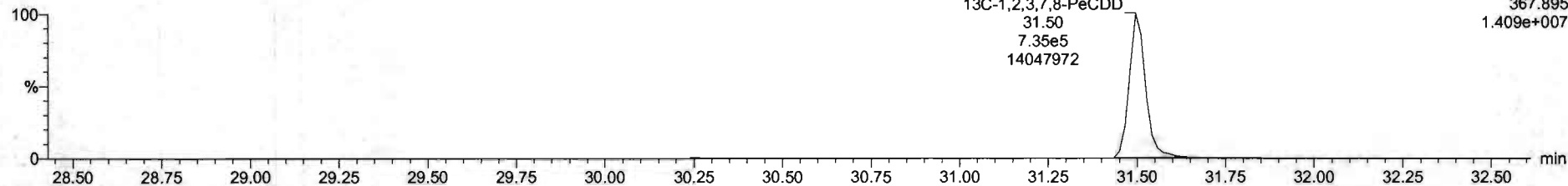


13C-1,2,3,7,8-PeCDD

200528R2_5



200528R2_5



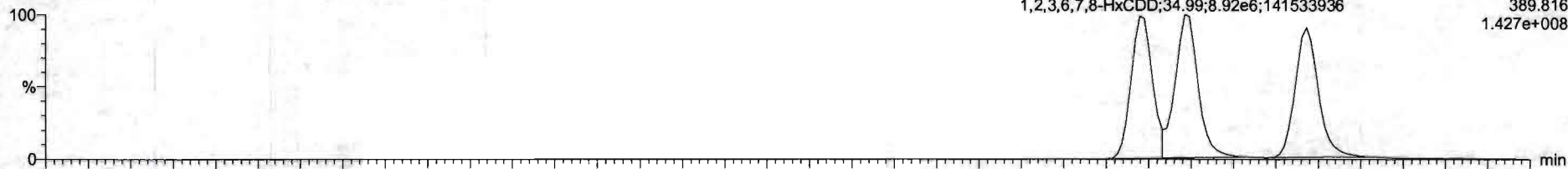
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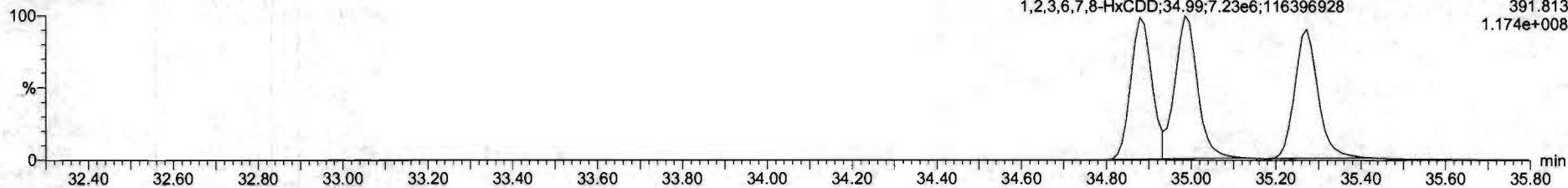
1,2,3,4,7,8-HxCDD

200528R2_5



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1.427e+008

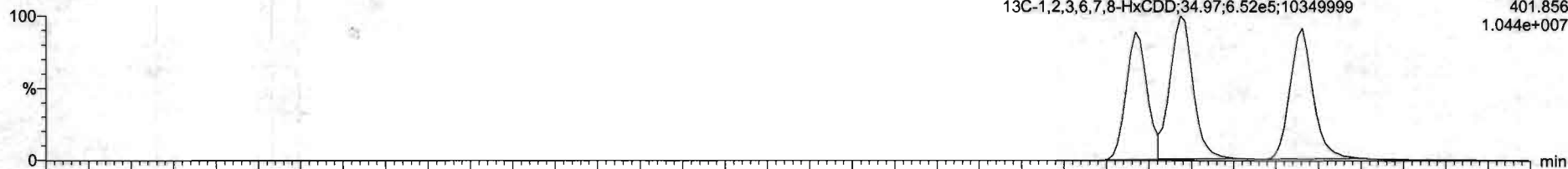
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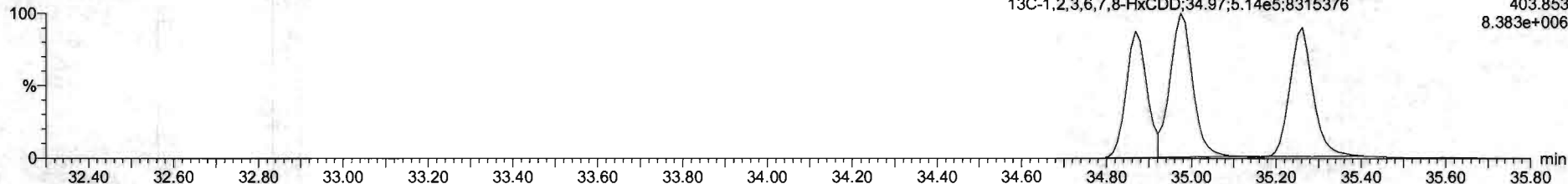
13C-1,2,3,4,7,8-HxCDD

200528R2_5



F3:Voltage SIR,EI+
401.856
1.044e+007

200528R2_5



F3:Voltage SIR,EI+
403.853
8.383e+006

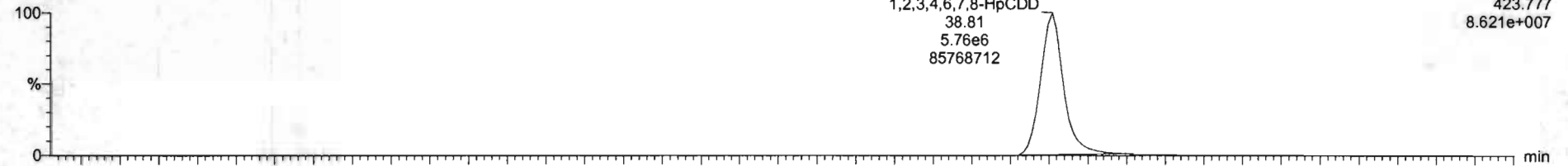
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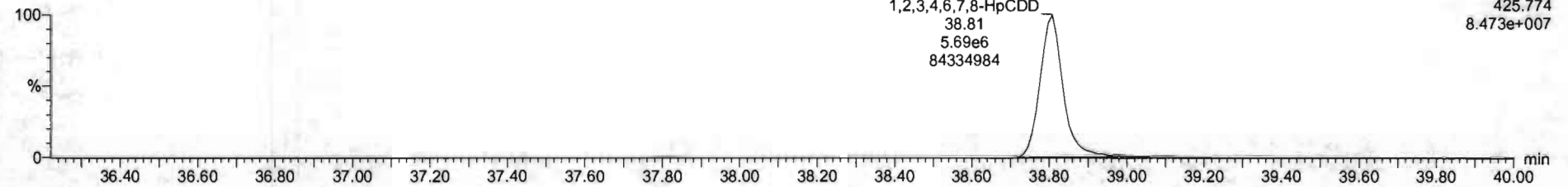
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1,2,3,4,6,7,8-HpCDD

200528R2_5

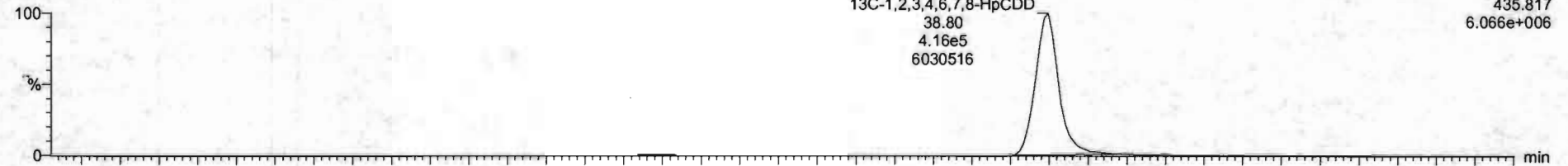


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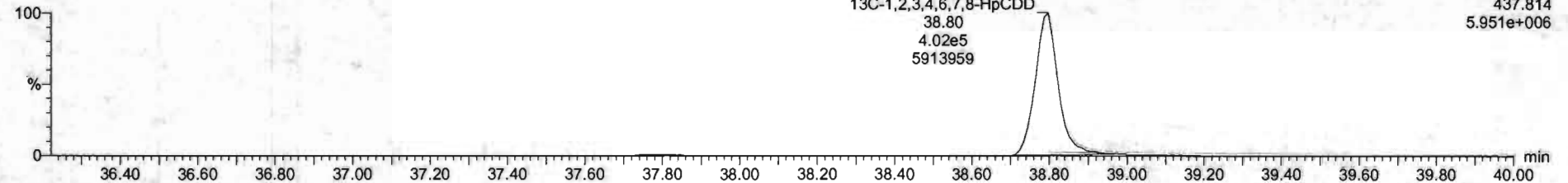


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200528R2_5



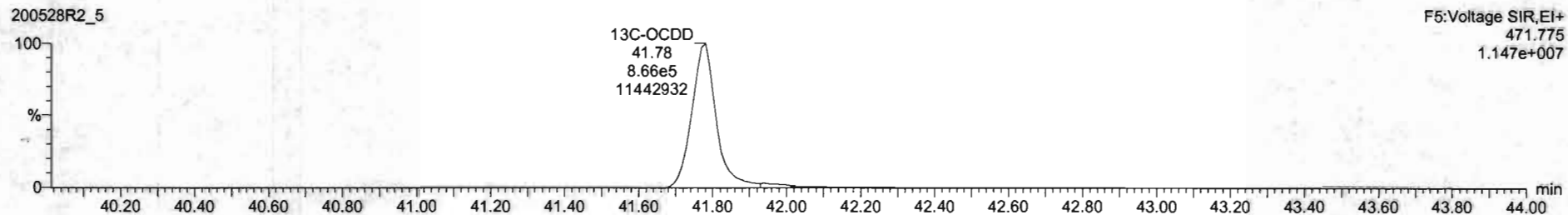
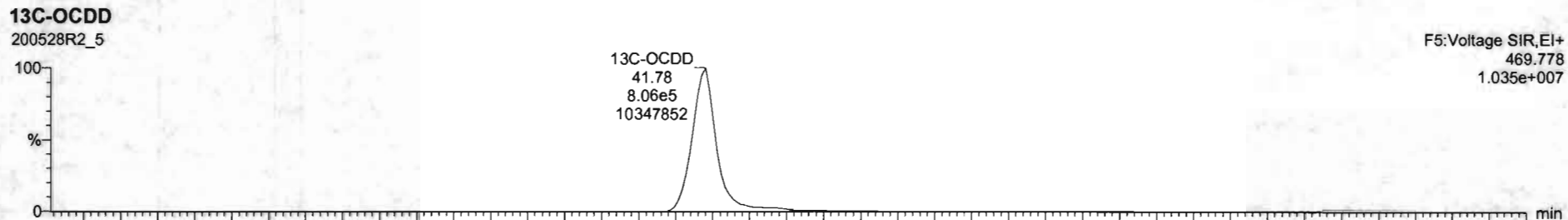
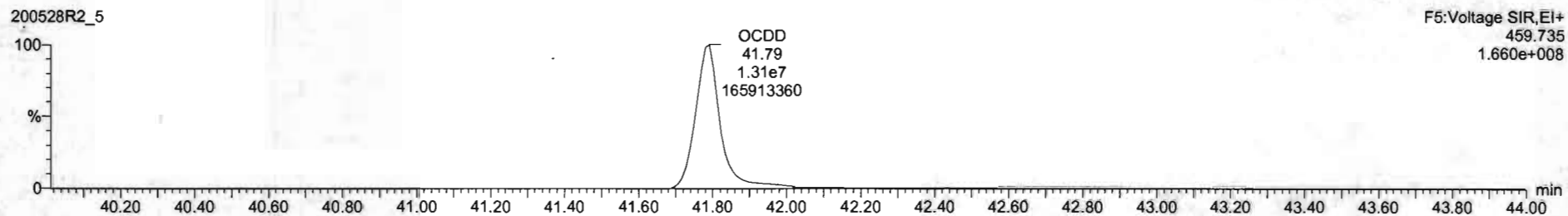
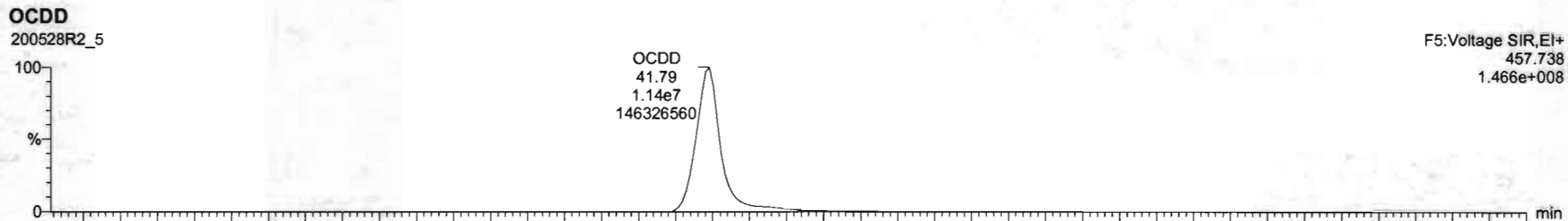
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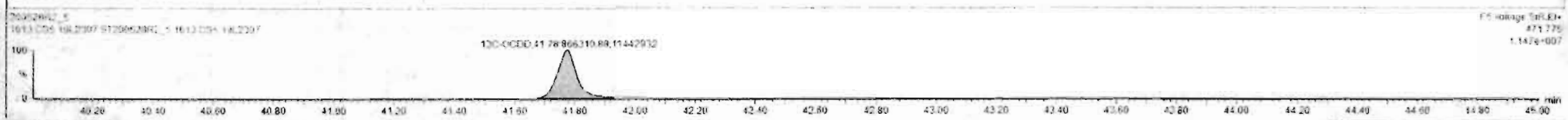
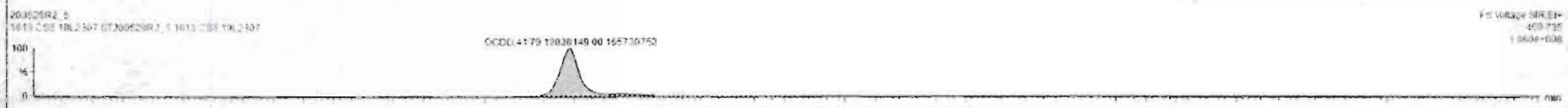
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Name: 200528R2_5, Date: 28-May-2020, Time: 15:02:56, ID: ST200528R2_5 1613 CS5 19L2307, Description: 1613 CS5 19L2307



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1	2.3.7.8-TCD0	4.52e7	0.76	NO	0.6883	1.000	26.95	1.001	321	107	0.0511	321
2	1.2.3.7.8-FluCD0	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-HvCD0	1.47e7	1.23	NO	1.0334	1.000	34.08	1.000	1520	101	0.130	1520
4	1.2.3.8.7.8-HvCD0	1.41e7	1.23	NO	0.9523	1.000	34.99	1.000	1550	103	0.142	1550
5	1.2.3.7.8.9-HvCD0	1.47e7	1.23	NO	0.9265	1.000	35.27	1.000	1570	104	0.107	1570
6	1.2.3.4.6.7.8-HvCD0	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	2.3.7.6-TCD0	0.00e0	0.75	NO	0.7510	1.000	45.65	1.001	325	105	0.0600	325
9	1.2.3.7.8-FluCDF	2.38e7	1.14	NO	0.8925	1.000	40.23	1.000	1570	101	0.231	1570
10	2.3.4.7.8-FluCDF	0.40e7	1.53	NO	0.9348	1.000	41.21	1.000	1550	101	0.213	1550
11	1.2.3.4.7.8-HvCDF	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-HvCDF	1.06e7	1.19	NO	0.8092	1.000	34.72	1.000	1535	101	0.0927	1535
13	2.3.4.6.7.8-HvCDF	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-HvCDF	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-HvCDF	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-HvCDF	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-TCD0	1.52e6	0.76	NO	1.1583	1.000	26.96	1.026	106	106	0.0720	106
19	13C-1.2.3.7.8-FluCD0	1.27e6	0.64	NO	0.8499	1.000	31.58	1.215	114	114	0.130	114
20	13C-1.2.3.4.7.8-HvCD0	6.34e5	1.28	NO	0.7750	1.000	34.97	1.014	110	110	0.191	110
21	13C-1.2.3.6.7.8-HvCD0	1.17e6	1.27	NO	1.0167	1.000	34.97	1.017	113	113	0.146	113



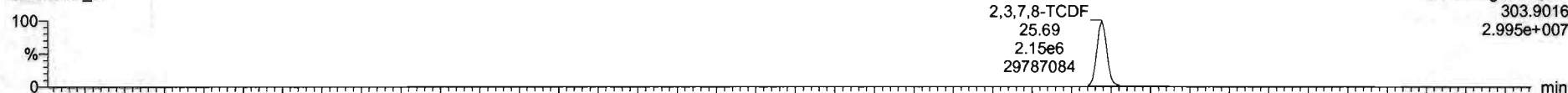
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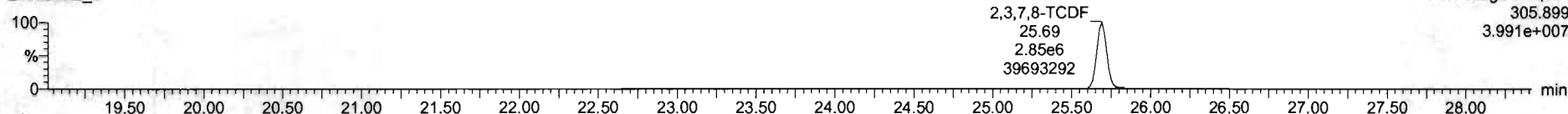
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2,3,7,8-TCDF

200528R2_5

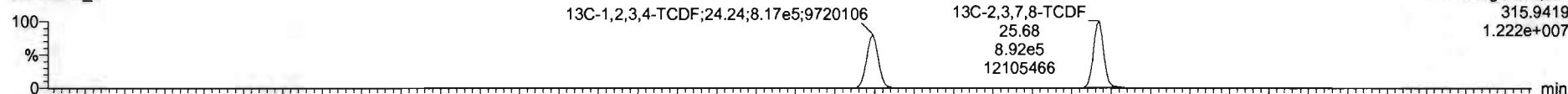


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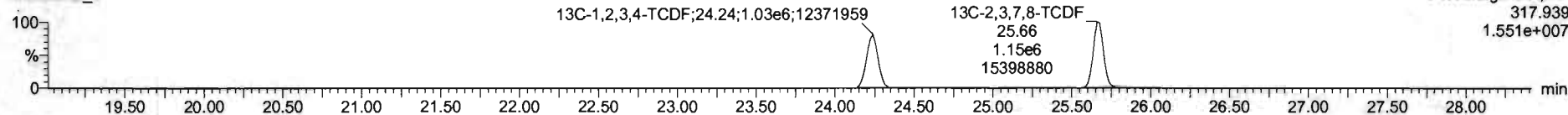


13C-2,3,7,8-TCDF

200528R2_5

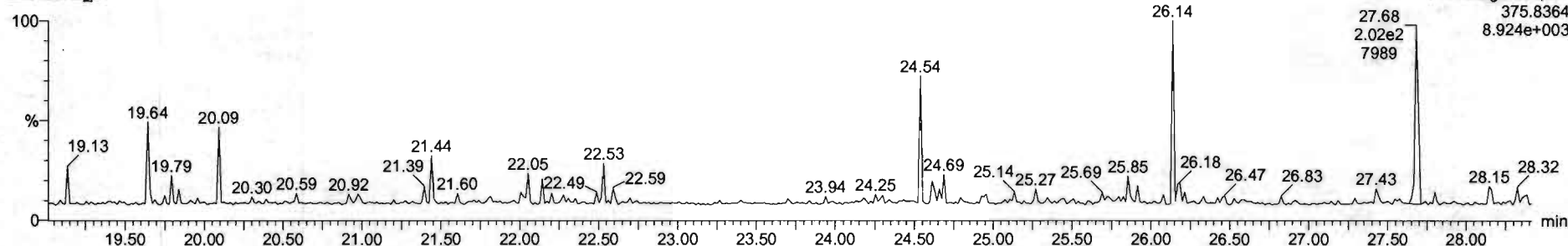


200528R2_5



DPE1

200528R2_5



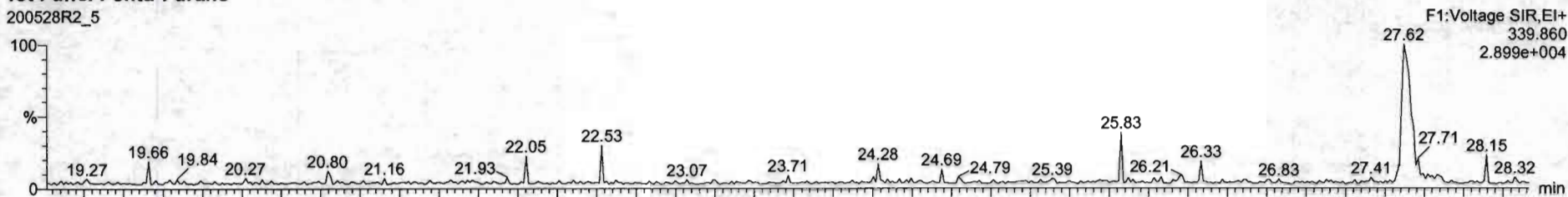
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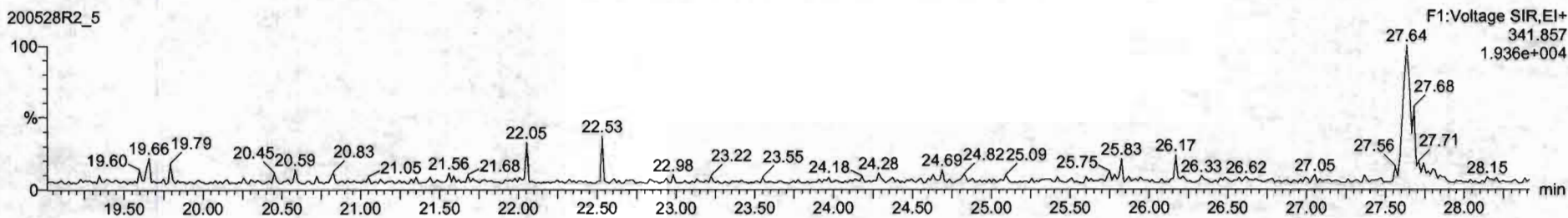
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1st Func. Penta-Furans

200528R2_5

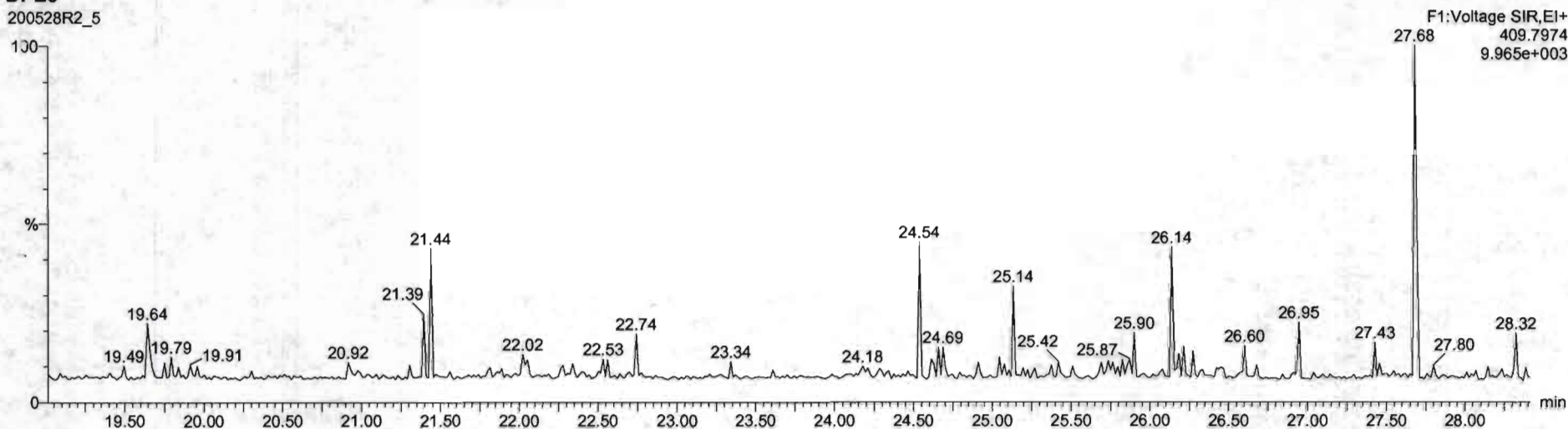


200528R2_5



DPE6

200528R2_5



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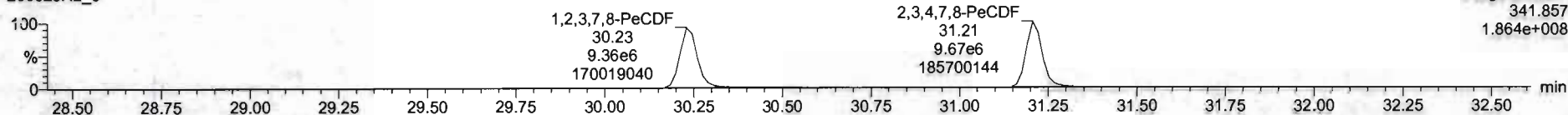
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1,2,3,7,8-PeCDF

200528R2_5



200528R2_5

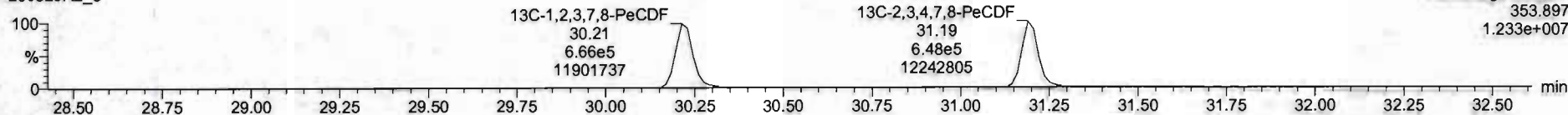


13C-1,2,3,7,8-PeCDF

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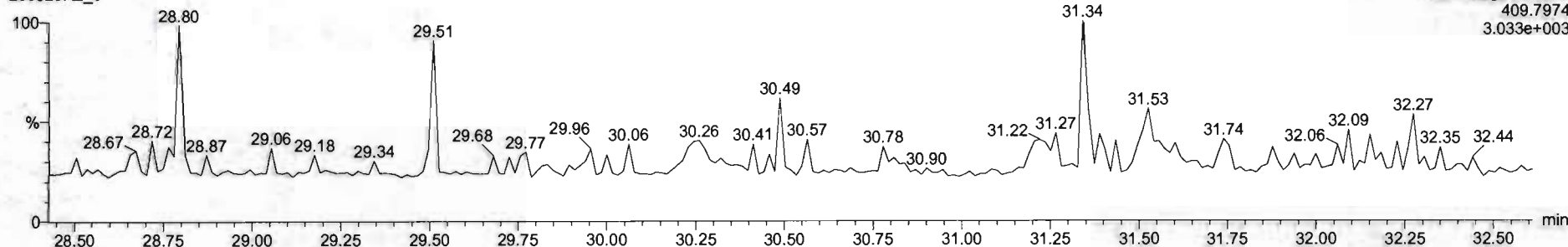


200528R2_5



DPE2

200528R2_5



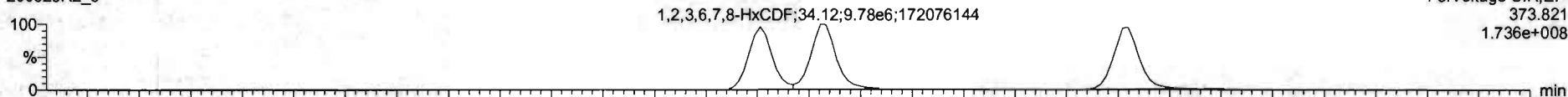
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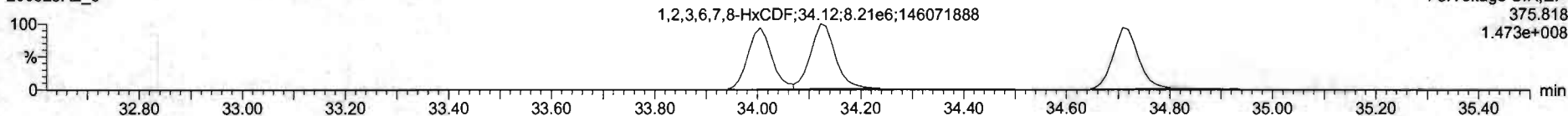
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1,2,3,4,7,8-HxCDF

200528R2_5

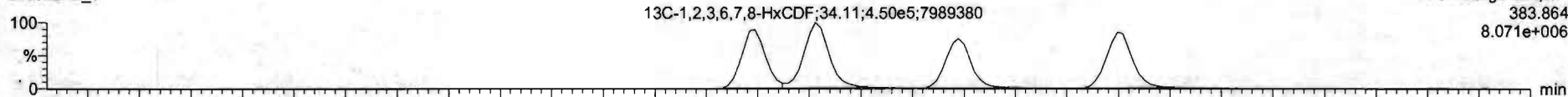


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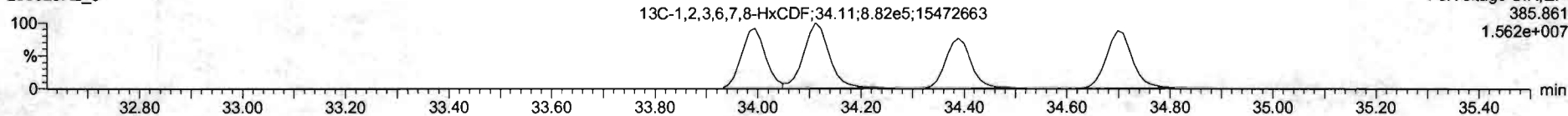


13C-1,2,3,4,7,8-HxCDF

200528R2_5

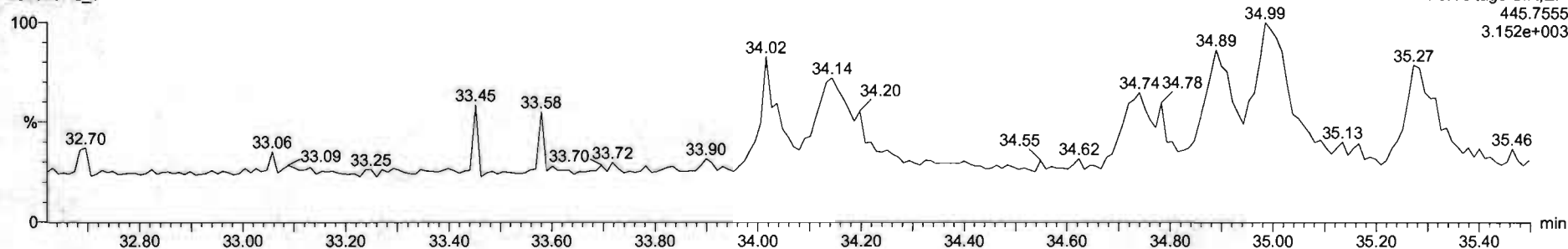


200528R2_5



DPE3

200528R2_5



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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

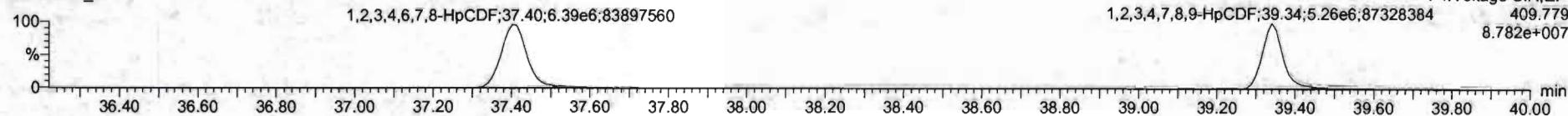
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1,2,3,4,6,7,8-HpCDF

200528R2_5

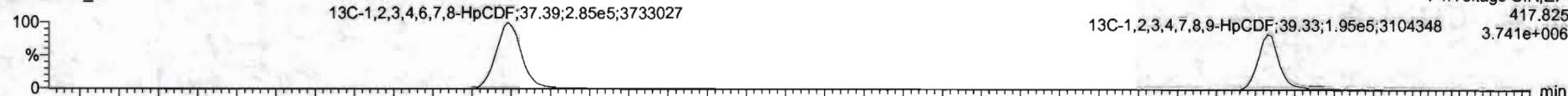


200528R2_5

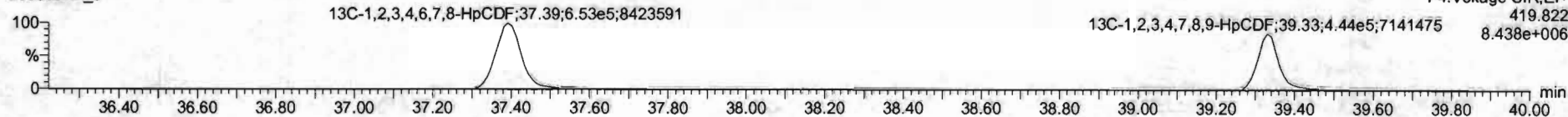


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200528R2_5

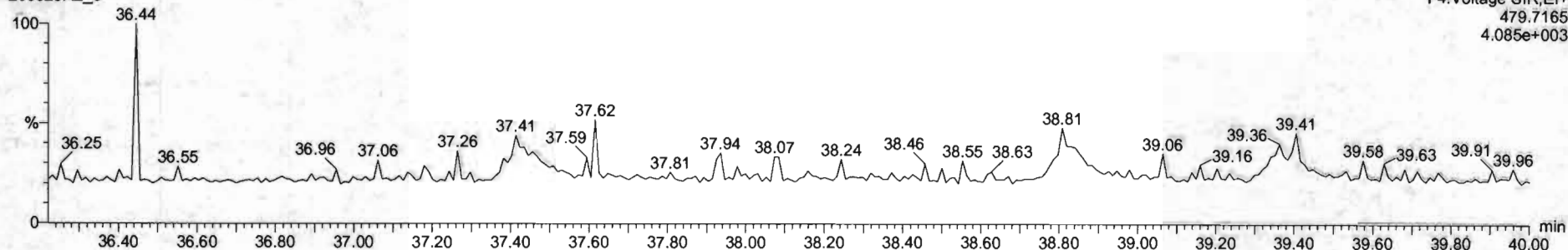


200528R2_5



DPE4

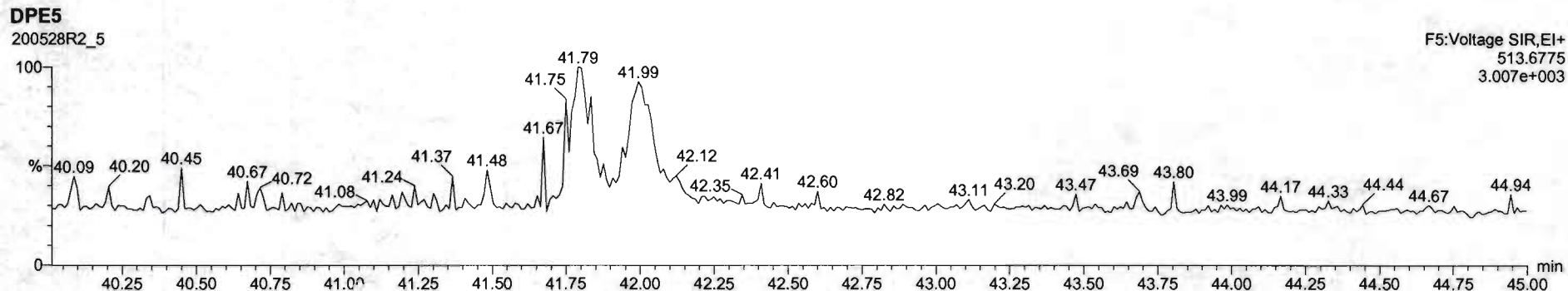
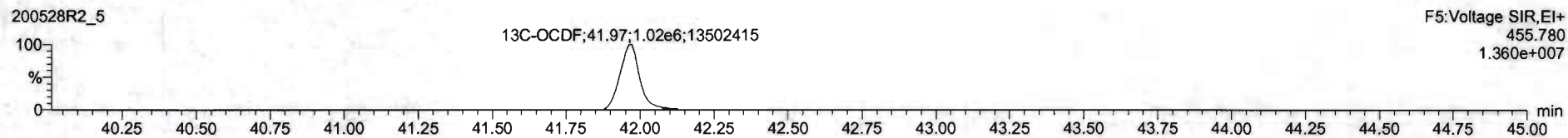
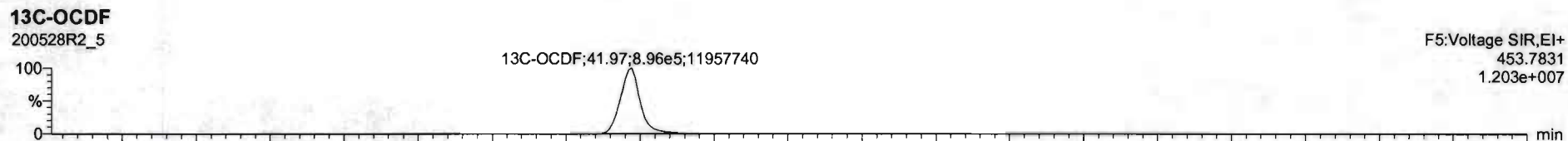
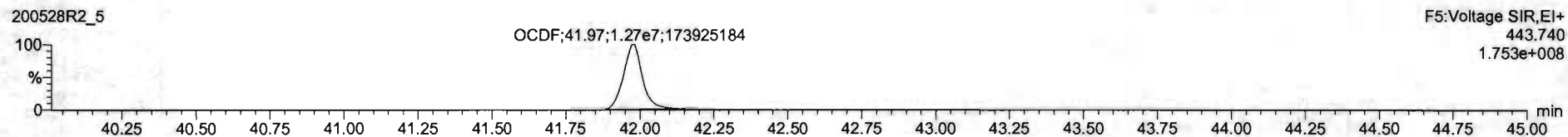
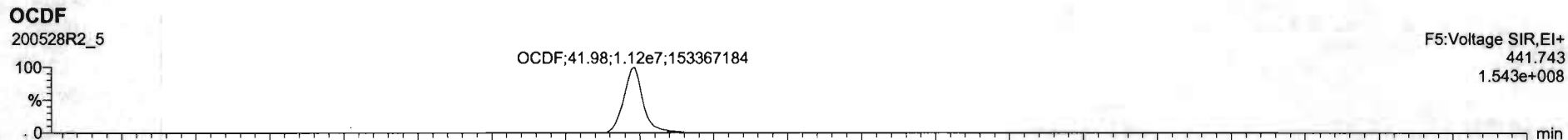
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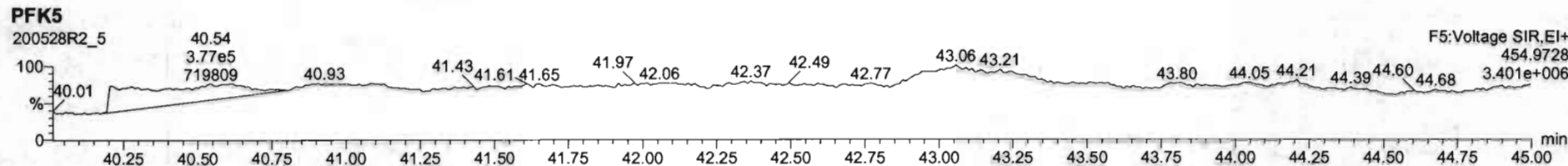
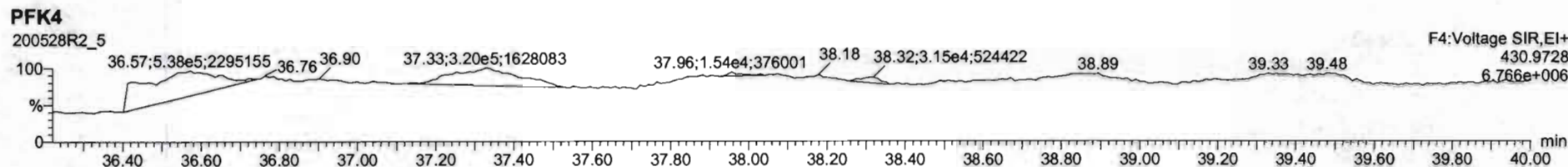
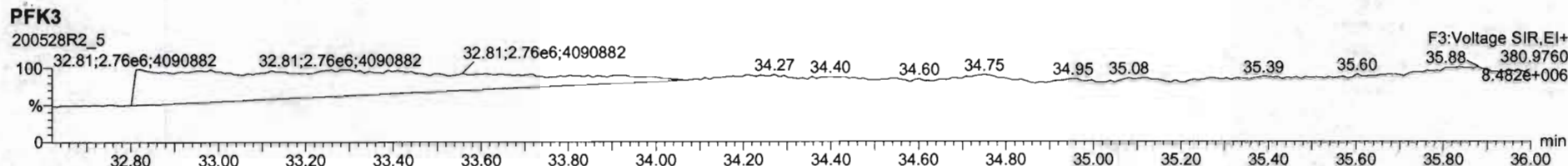
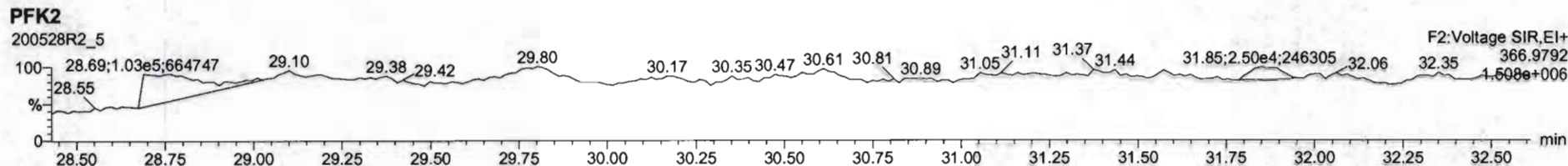
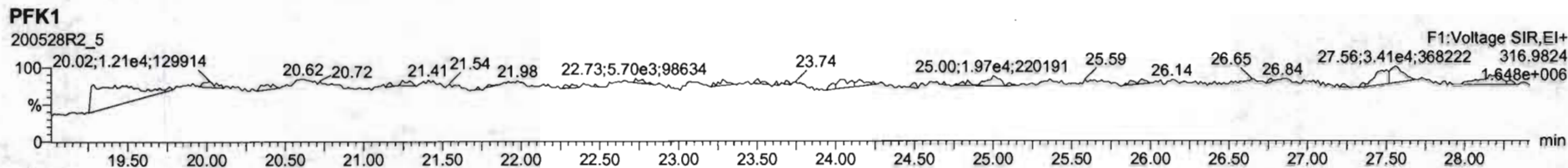
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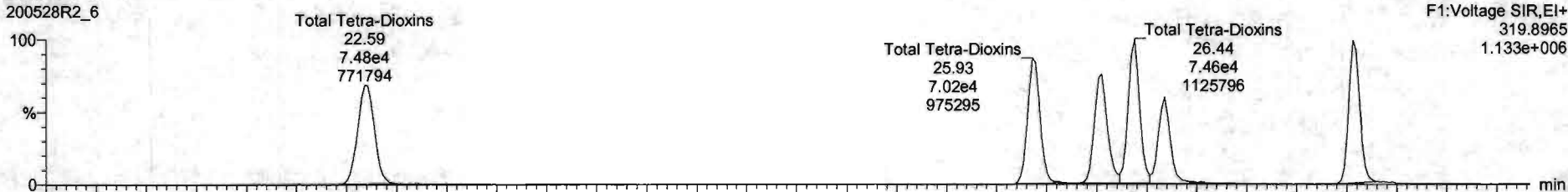
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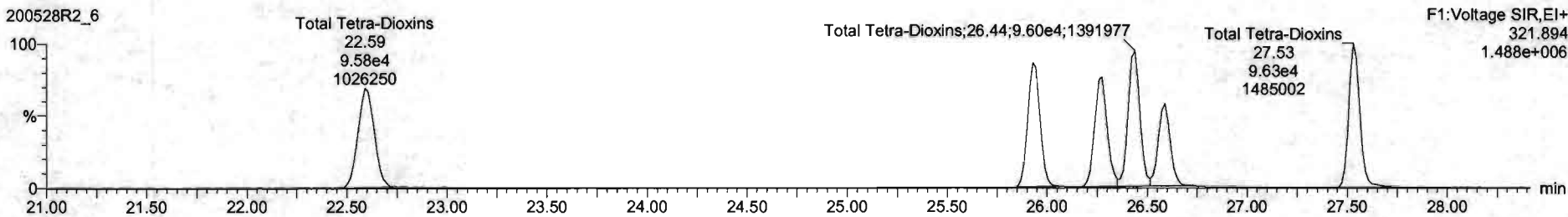
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2,3,7,8-TCDD

200528R2_6

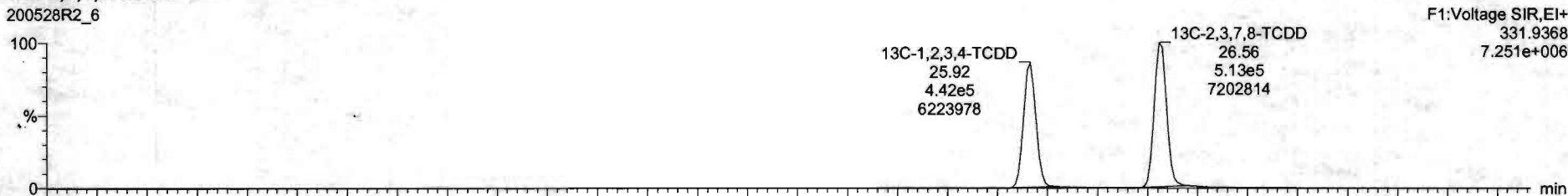


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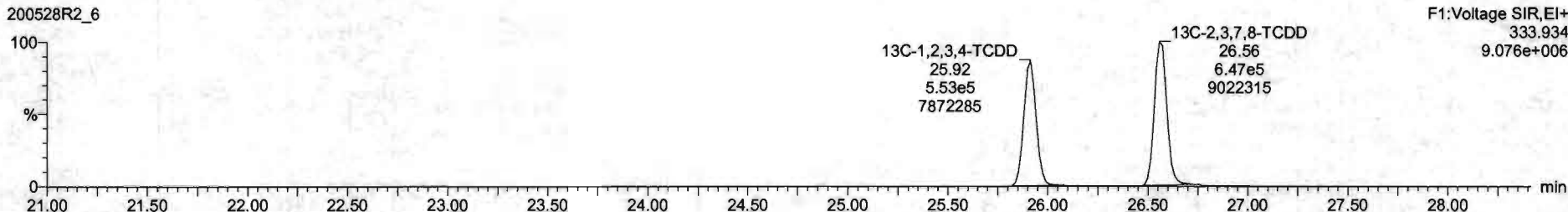


13C-2,3,7,8-TCDD

200528R2_6



200528R2_6



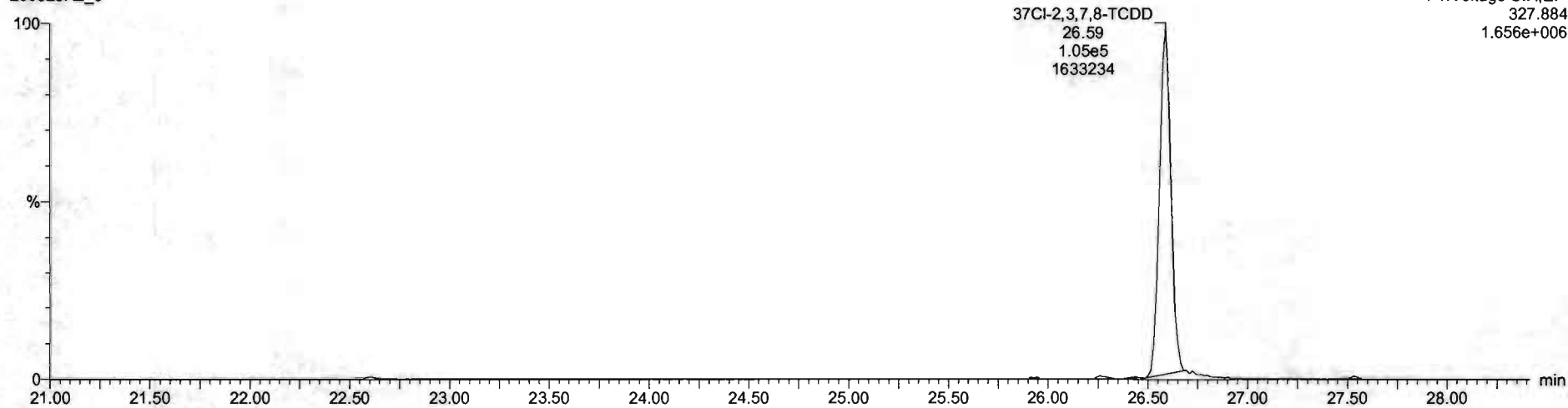
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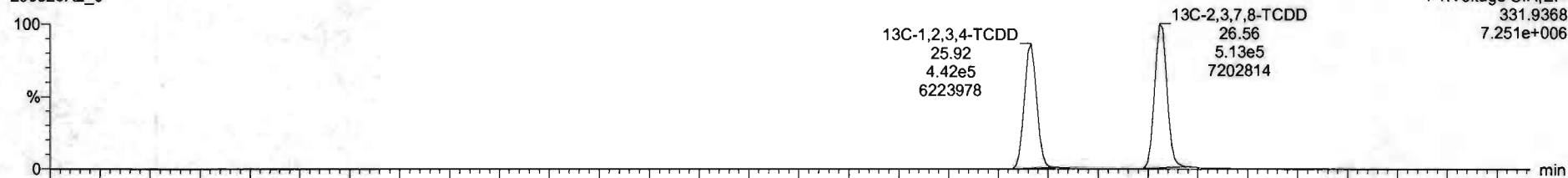
37Cl-2,3,7,8-TCDD

200528R2_6

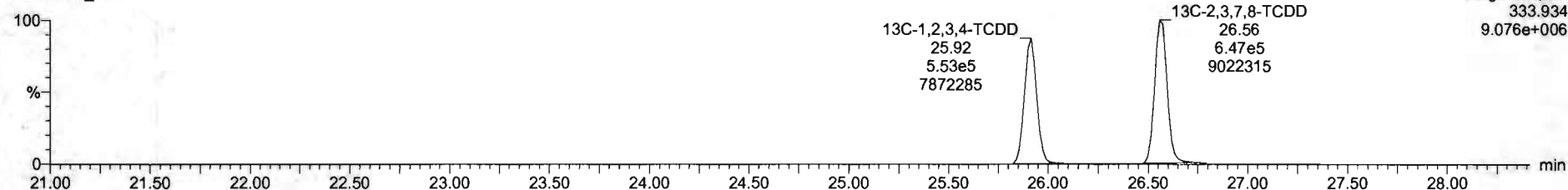


13C-1,2,3,4-TCDD

200528R2_6



200528R2_6



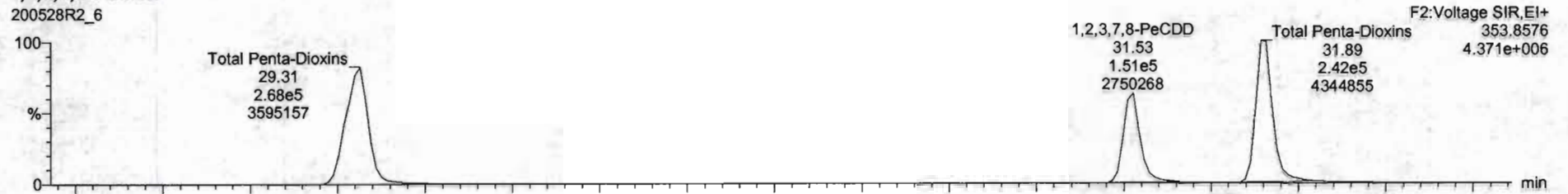
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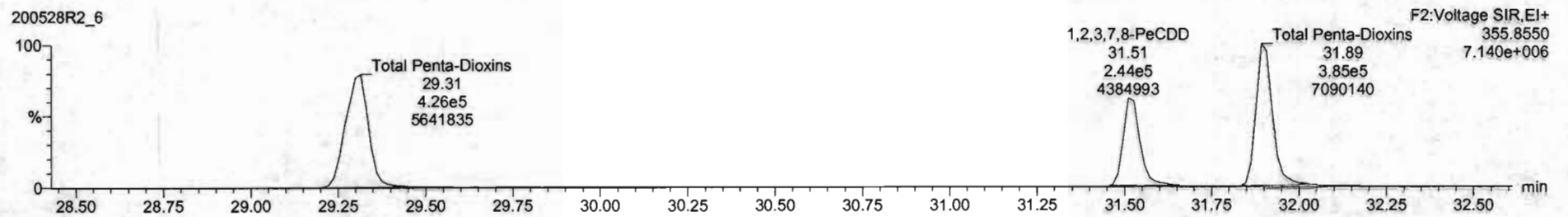
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1,2,3,7,8-PeCDD

200528R2_6

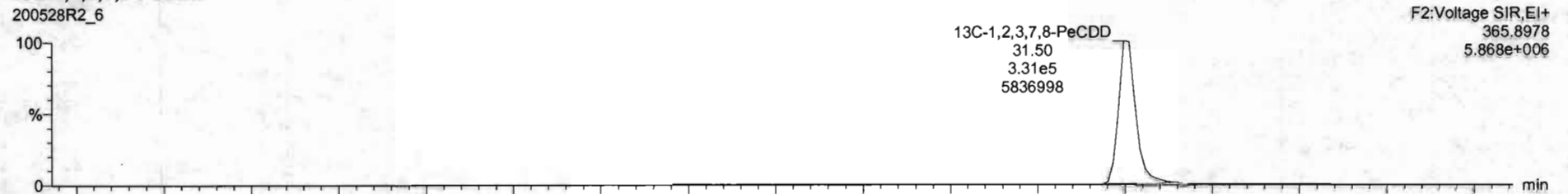


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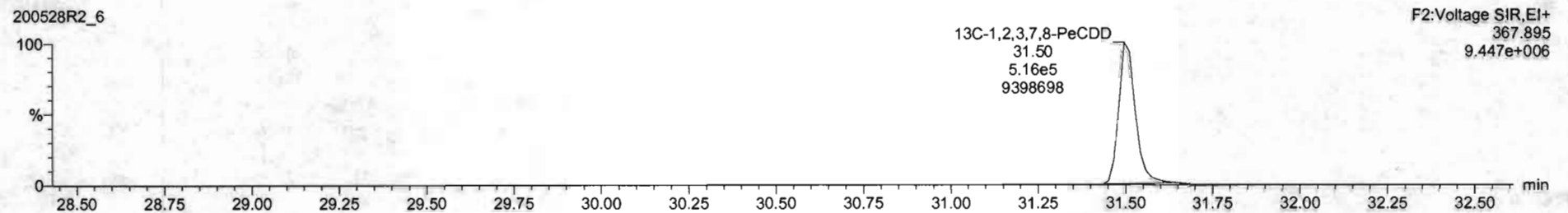


13C-1,2,3,7,8-PeCDD

200528R2_6



200528R2_6



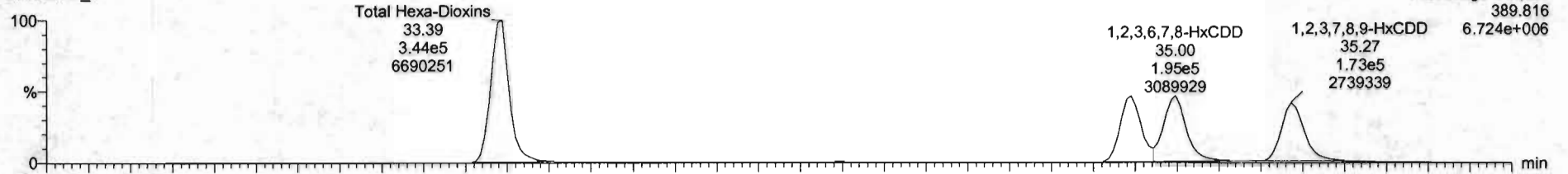
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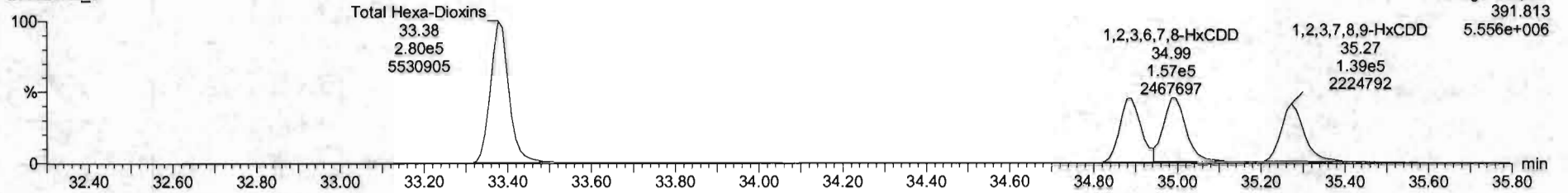
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1,2,3,4,7,8-HxCDD

200528R2_6

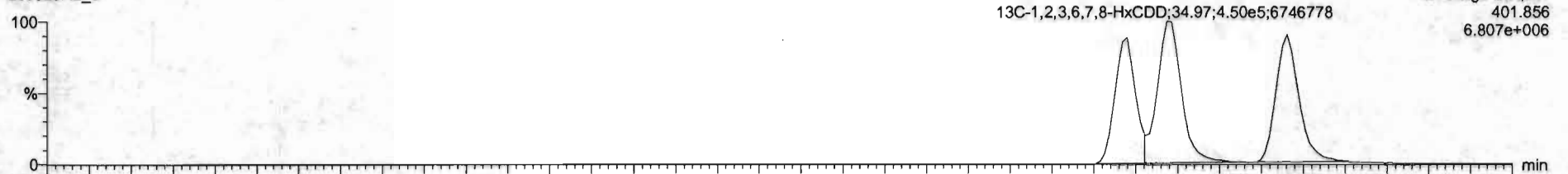


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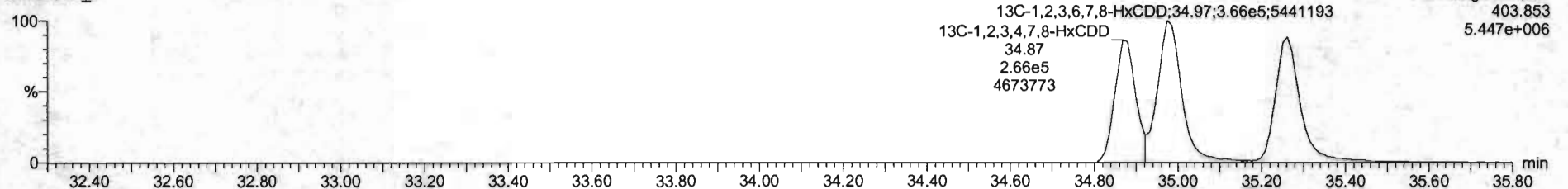


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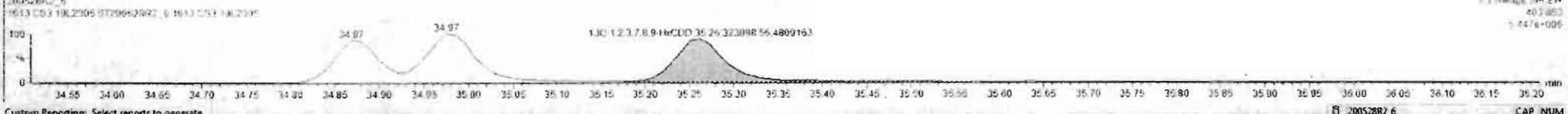
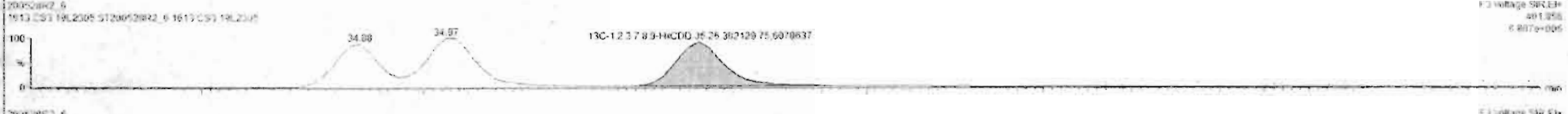
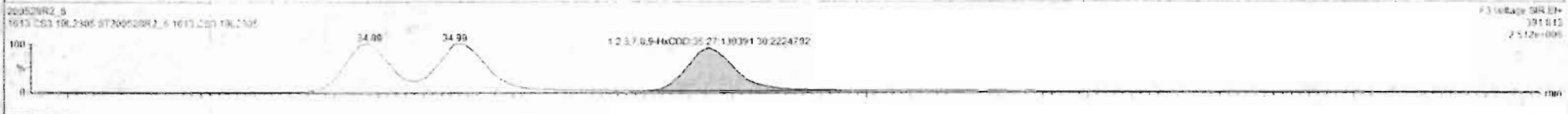
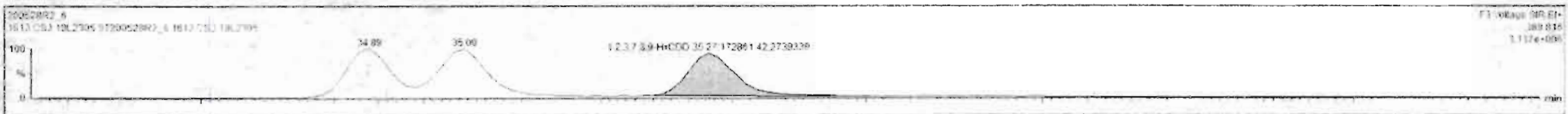
200528R2_6



200528R2_6



#	Name	Res#	RA	aly	RR	sdvol	RT	RRT	Conc.	%Rec	DL	LHPC
1	2,3,7,8-TCDD	1.06e5	0.91	NO	0.6203	1.000	25.59	1.001	10.2	102	0.0674	10.2
2	1,2,3,7,8-PeCDD	3.95e5	0.82	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	34.20	1.001	48.3	98.8	0.271	48.3
5	1,2,3,7,8,9-HxCDD	3.12e5	1.24	NO	0.6659	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	2.29e5	1.02	NO	0.9618	1.000	35.81	1.000	51.2	102	0.209	51.2
7	CDDX	4.53e5	0.98	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	25.69	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	0.8022	1.000	34.13	1.000	51.9	104	0.179	51.9
13	1,2,3,4,6,7,8-HpCDF	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	0.8757	1.000	35.63	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.84e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,6,5-HpCDF	2.00e5	0.80	NO	1.0125	1.000	38.34	1.000	52.7	105	0.258	52.7
17	CDFX	4.44e5	0.86	NO	0.8045	1.000	41.97	1.000	102	102	0.161	102
18	1,2,3,7,8,9-HxCDF	1.16e5	0.79	NO	1.1503	1.000	28.96	1.025	101	101	0.0990	101
19	1,2,3,4,6,7,8-HpCDD	8.48e5	0.84	NO	0.8450	1.000	31.50	1.215	100	100	0.225	100
20	1,2,3,4,7,8-HpCDD	8.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.188	98.9
21	1,2,3,6,7,8-HpCDD	8.19e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	102



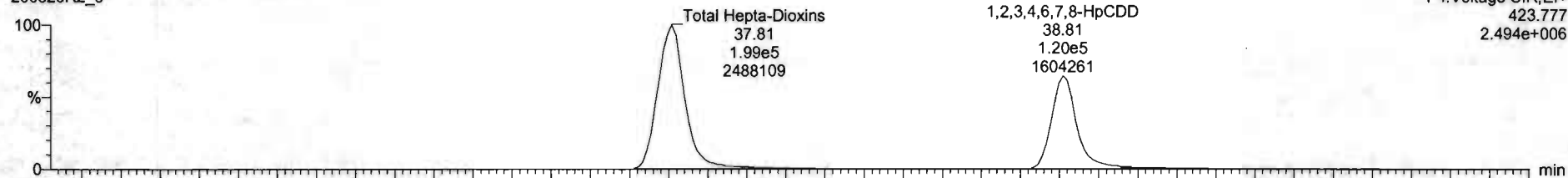
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Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

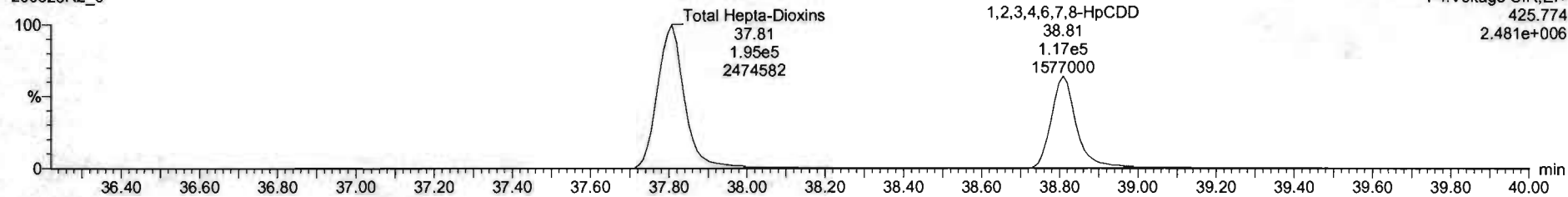
1,2,3,4,6,7,8-HpCDD

200528R2_6



F4: Voltage SIR, EI+
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2.494e+006

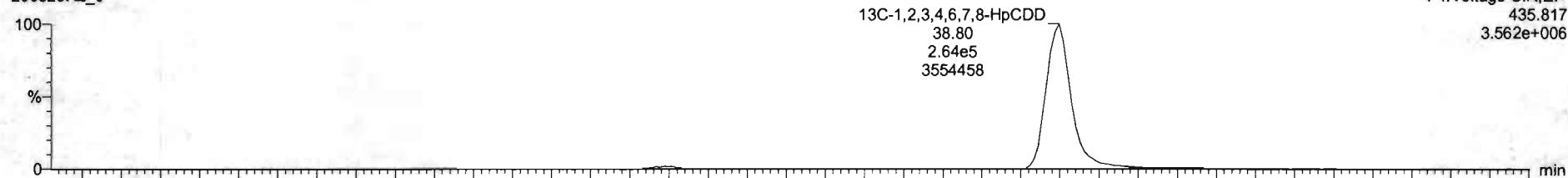
200528R2_6



F4: Voltage SIR, EI+
425.774
2.481e+006

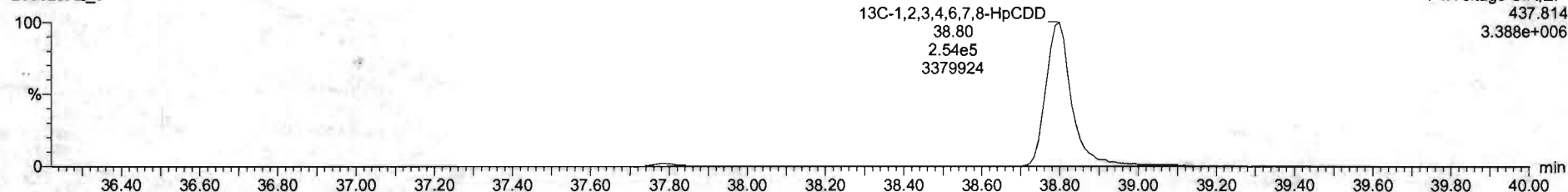
13C-1,2,3,4,6,7,8-HpCDD

200528R2_6



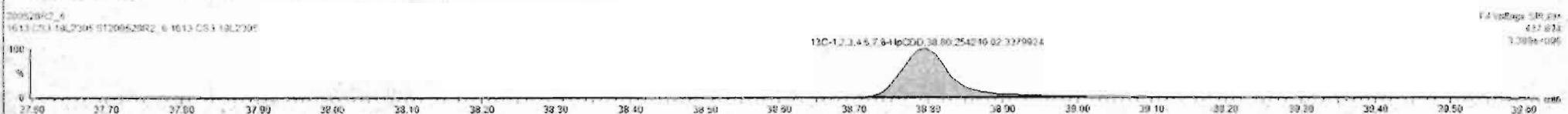
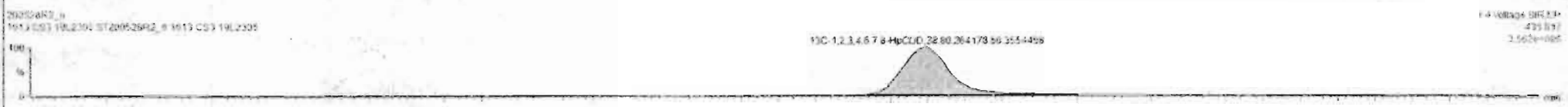
F4: Voltage SIR, EI+
435.817
3.562e+006

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	0.901	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	0.897	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	0.929	1.000	36.81	1.000	51.2	102	0.269	51.2
7	OCDF	4.53e5	0.98	NO	0.9176	1.000	41.75	1.000	102	102	0.208	102
8	1,1,1,6-TCDF	1.19e5	0.74	NO	0.7140	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	0.8925	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	0.9349	1.000	31.22	1.000	50.3	101	0.150	50.3
11	1,2,3,4,7,8-HxCDF	3.58e5	1.21	NO	0.8548	1.000	34.31	1.000	51.1	102	0.251	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8852	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	0.9041	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	0.8707	1.000	35.63	1.000	51.1	102	0.269	51.1
15	1,2,3,4,6,7,8-HpCDF	2.84e5	0.98	NO	0.8734	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	1.0122	1.000	39.34	1.000	52.7	108	0.288	52.7
17	OCDF	4.44e5	0.95	NO	0.8081	1.000	41.87	1.000	102	102	0.161	102
18	13C-1,2,3,7,8-13CDD	1.16e5	0.79	NO	1.1583	1.000	29.56	1.026	101	101	0.0980	
19	13C-1,2,3,7,8-13CDD	0.48e5	0.84	NO	0.9450	1.000	31.59	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-13CDD	8.04e5	1.27	NO	0.7750	1.000	34.58	1.014	98.9	98.9	0.188	
21	13C-1,2,3,6,7,8-13CDD	8.15e5	1.23	NO	1.0487	1.000	34.97	1.017	102	102	0.144	



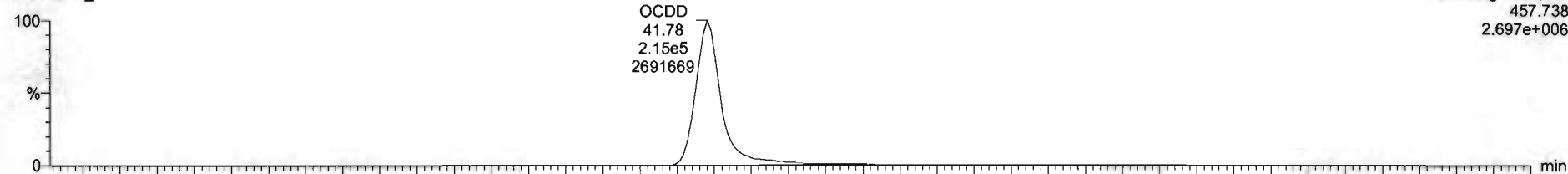
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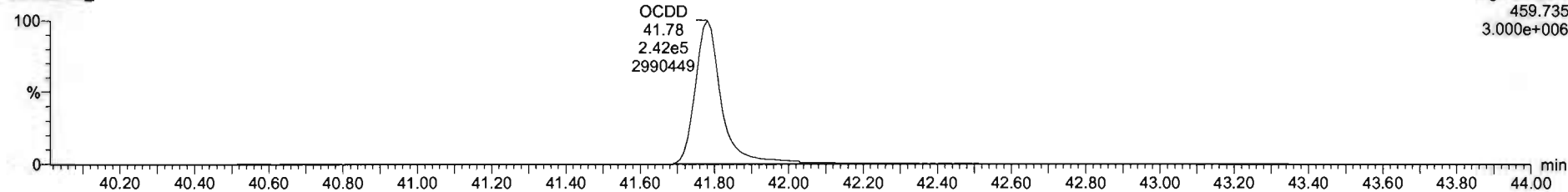
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OCDD

200528R2_6

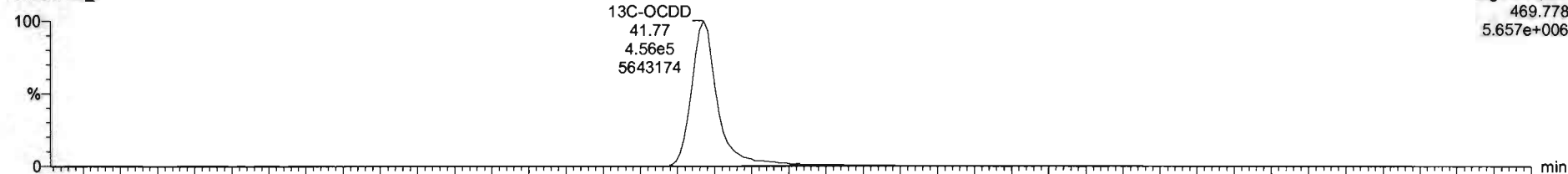


200528R2_6

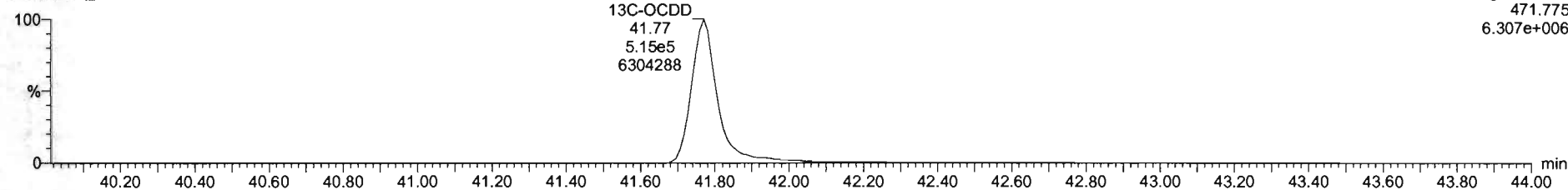


13C-OCDD

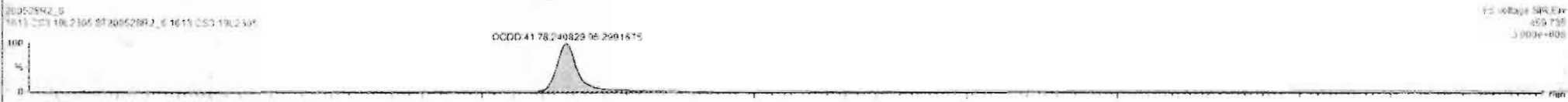
200528R2_6



200528R2_6



Name	Resp	RA	Qty	RHF	WVol	RT	RRT	Conc	%Rec	DL	EMFC
1 2,3,7,8-TCDD	1.96e6	0.21	NO	0.8843	1.000	26.19	1.001	10.2	102	0.0664	10.2
2 1,2,3,7,8-PeCDD	3.96e6	0.22	NO	0.9091	1.000	31.92	1.001	51.3	103	0.195	51.3
3 1,2,3,4,7,8-HxCDD	3.25e6	1.25	NO	1.0334	1.000	34.89	1.000	52.1	104	0.228	52.1
4 1,2,3,6,7,8-HxCDD	3.51e6	1.24	NO	0.8927	1.000	35.30	1.001	46.3	96.6	0.233	46.3
5 1,2,3,7,8,9-HxCDD	3.12e6	1.24	NO	0.9063	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6 1,2,3,4,6,7,8-HpCDD	7.36e6	1.52	NO	1.0881	1.000	35.81	1.000	71.1	100	0.216	71.1
7 OCDD	4.53e5	0.28	NO	0.9138	1.000	41.76	1.000	102	102	0.208	102
8 2,3,7,8-TCDF	1.19e6	0.24	NO	0.7510	1.000	25.89	1.001	3.96	99.6	0.0613	9.96
9 1,2,3,7,8-PeCDF	5.72e6	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.159	51.2
10 2,3,4,7,8-HxCDF	8.81e6	1.57	NO	0.9346	1.000	31.22	1.000	50.3	101	0.130	50.3
11 1,2,3,4,7,8-HxCDF	3.56e6	1.21	NO	0.8948	1.000	34.91	1.000	51.1	102	0.191	51.1
12 1,2,3,6,7,8-HxCDF	4.22e6	1.25	NO	0.9092	1.000	34.12	1.000	51.9	104	0.176	51.9
13 2,3,4,6,7,8-HxCDF	3.88e6	1.25	NO	0.9341	1.000	34.22	1.000	51.9	104	0.197	51.9
14 1,2,3,7,8,9-HxCDF	2.98e6	1.22	NO	0.8707	1.000	35.43	1.000	51.1	102	0.201	51.1
15 1,2,3,4,6,7,8-HpCDF	2.64e6	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	2.06e6	0.98	NO	1.0128	1.000	39.34	1.000	52.7	105	0.253	52.7
17 OCDF	4.44e6	0.86	NO	0.8845	1.000	41.87	1.000	102	102	0.161	102
18 13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1563	1.000	26.96	1.025	101	101	0.0900	
19 13C-1,2,3,7,8-PeCDD	8.46e6	0.84	NO	0.8490	1.000	31.98	1.215	100	100	0.235	
20 13C-1,2,3,4,7,8-HxCDD	6.04e6	1.27	NO	0.7750	1.000	34.88	1.014	96.9	96.9	0.198	
21 13C-1,2,3,6,7,8-HxCDD	6.15e6	1.23	NO	1.0167	1.000	34.97	1.017	102	102	0.144	



Custom Reporting: Select reports to generate

200528R2_6

CAP NUM

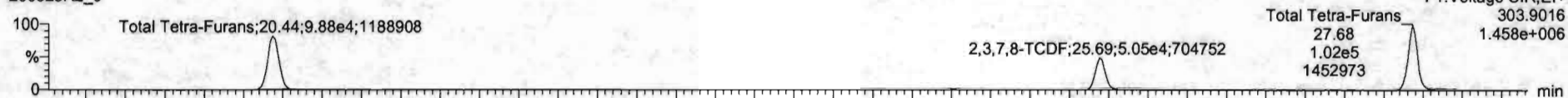
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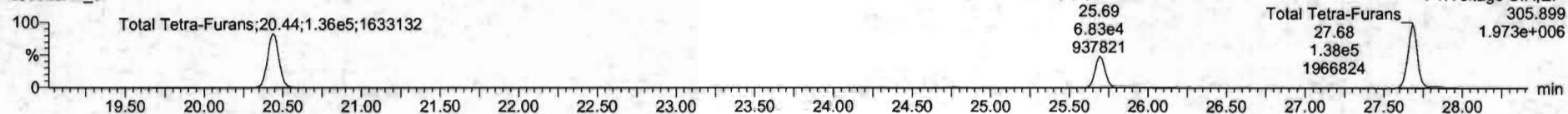
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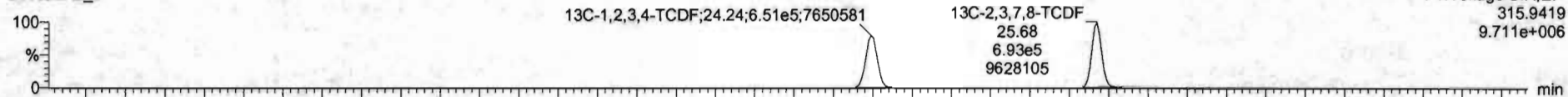


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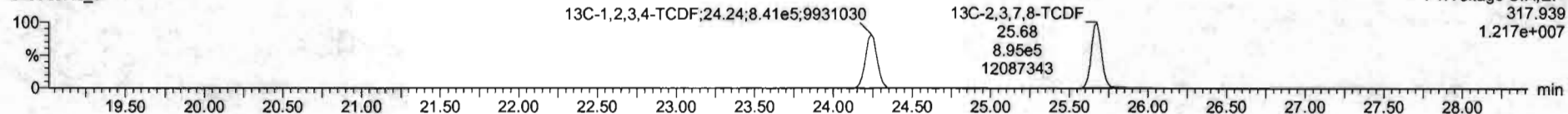


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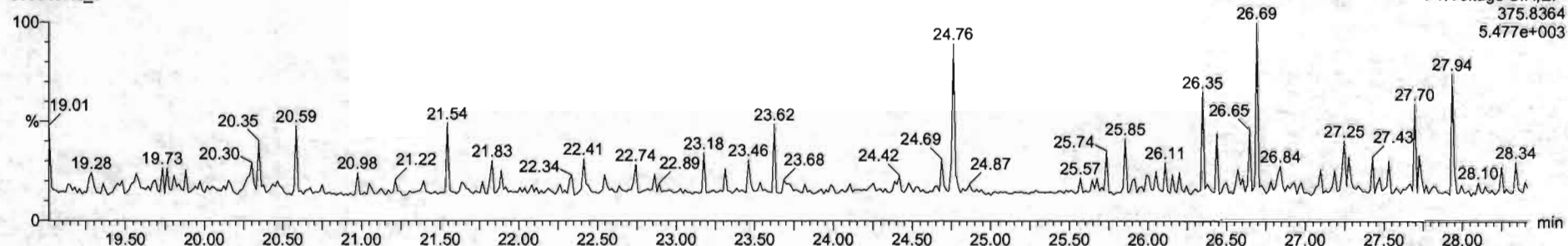


200528R2_6



DPE1

200528R2_6



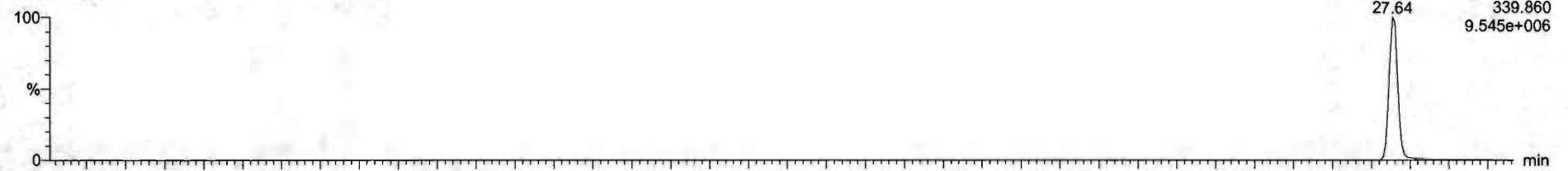
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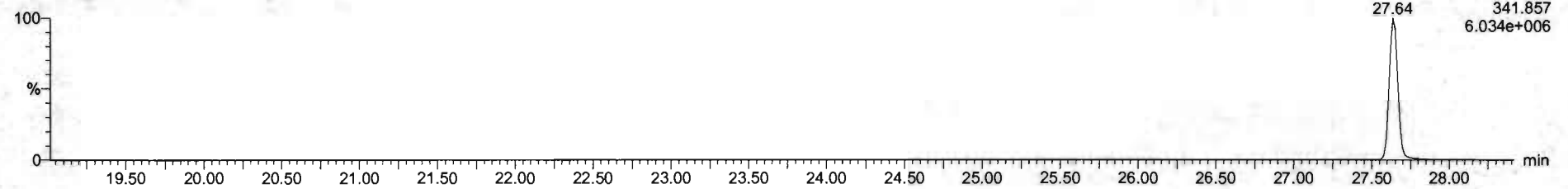
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200528R2_6

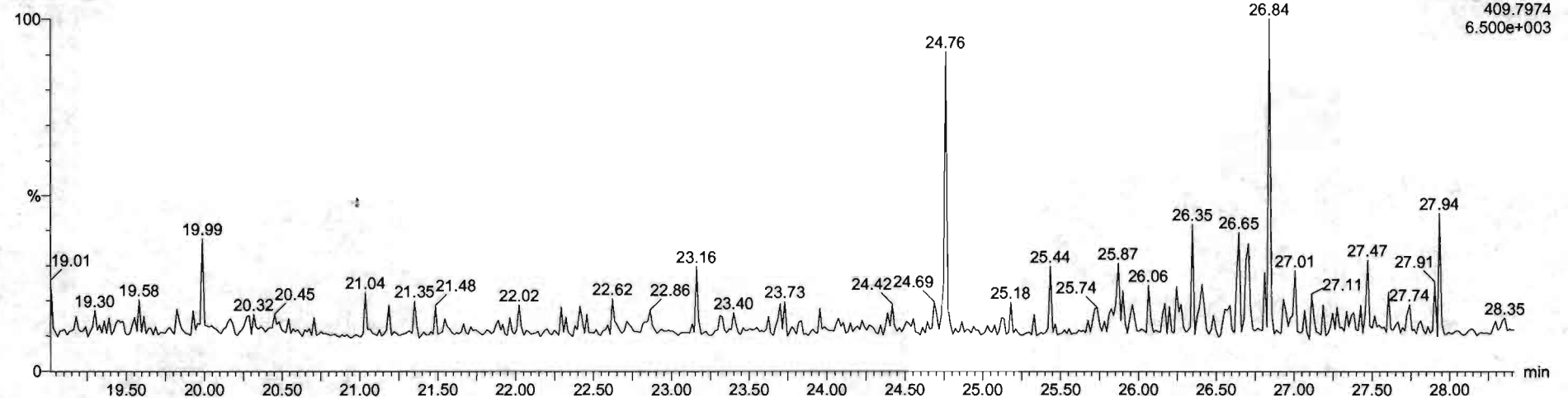


200528R2_6



DPE6

200528R2_6



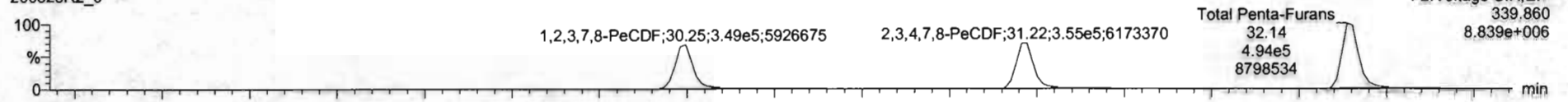
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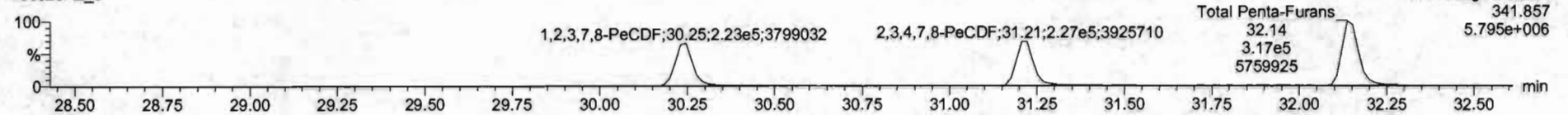
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200528R2_6

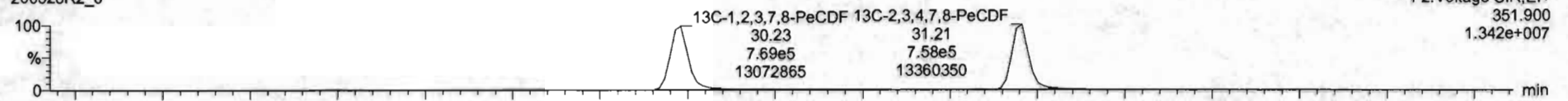


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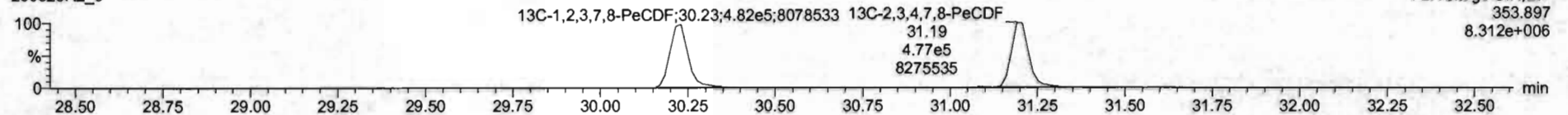


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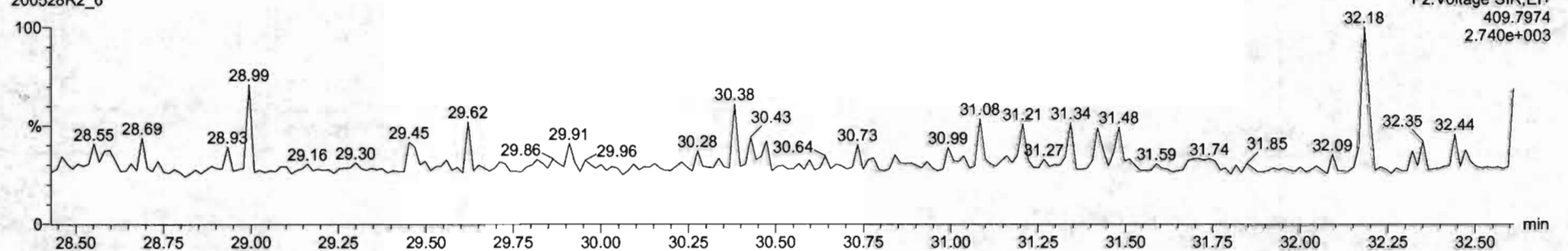


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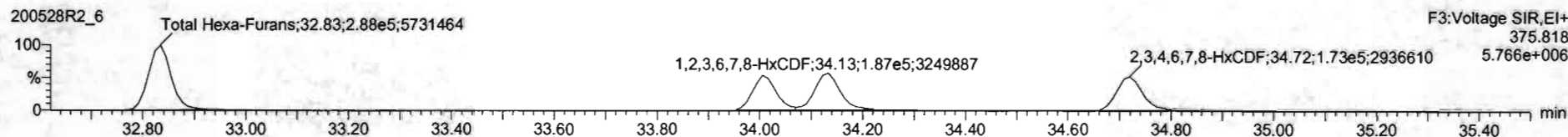
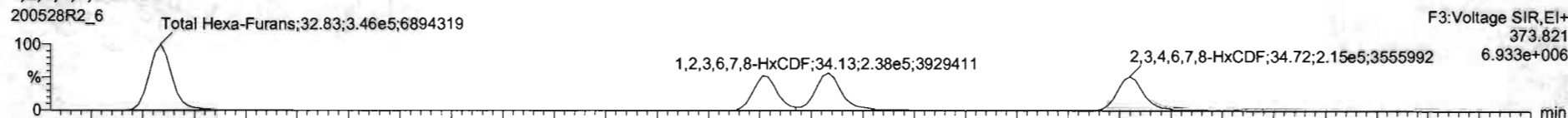


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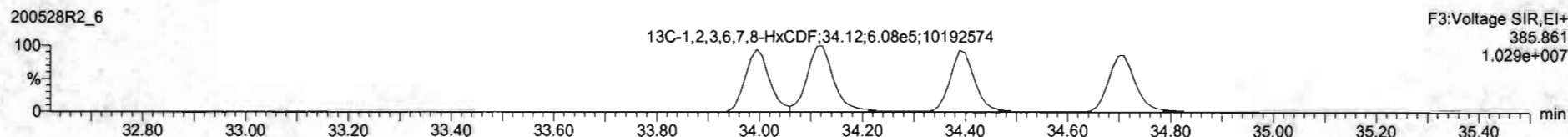
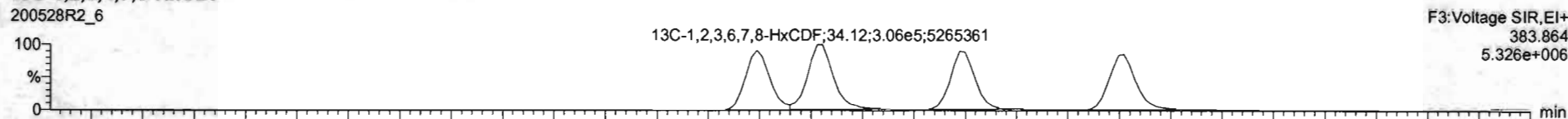
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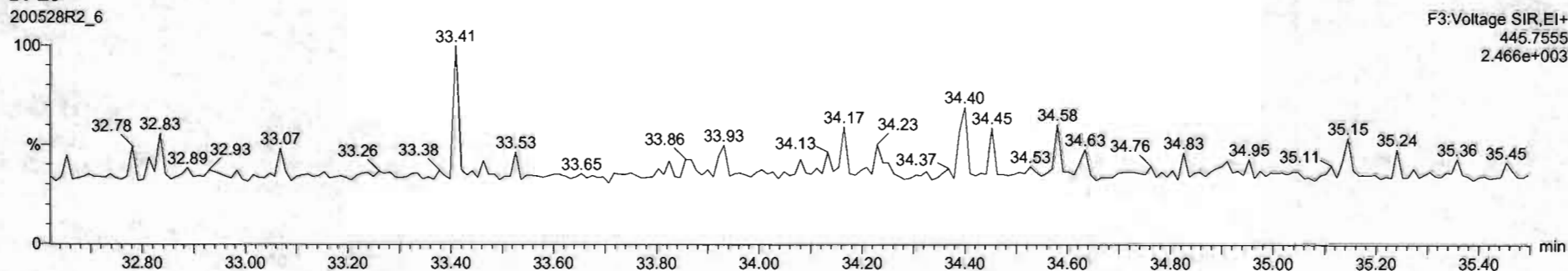
1,2,3,4,7,8-HxCDF



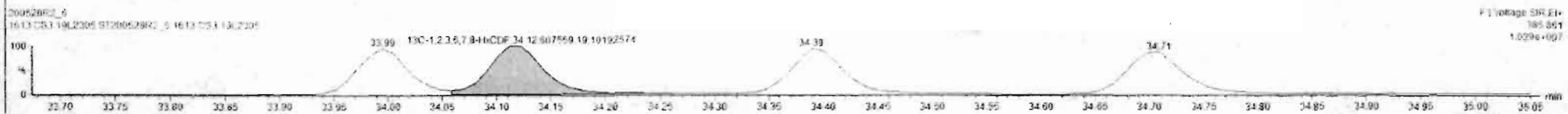
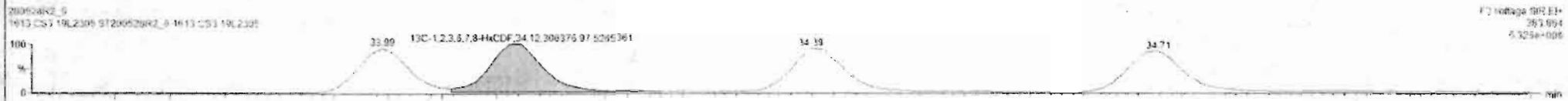
13C-1,2,3,4,7,8-HxCDF



DPE3



Name	Resp	RA	by	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.36e5	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	45.9	99.8	0.264	45.9
6 1,2,3,4,6,7,8-HpCDD	0.26e5	1.01	NO	0.8838	1.000	26.51	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	28.3	101	0.130	28.3
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	4.22e5	1.25	NO	0.8092	1.000	34.13	1.000	51.9	104	0.170	51.9
13 1,2,3,4,6,7,8-HpCDF	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
18 1,2,3,4,7,8,9-HpCDF	0.20e5	0.90	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
19 1,2,3,7,8-TCDF	1.16e5	0.79	NO	1.1583	1.000	26.56	1.026	101	101	0.0890	
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-1,2,3,7,8-HxCDD	0.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.188	
21 13C-1,2,3,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



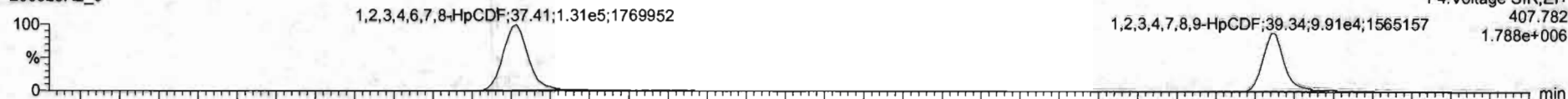
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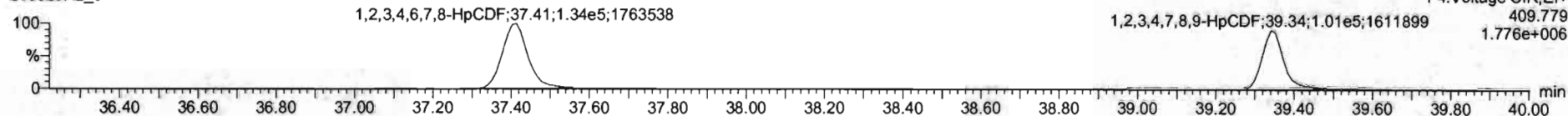
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200528R2_6

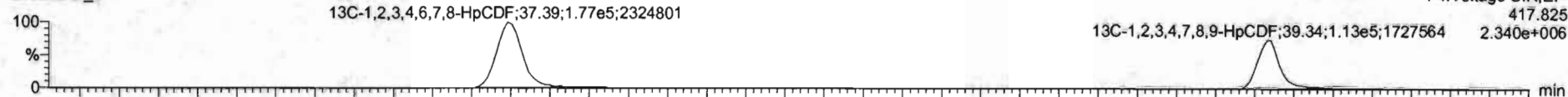


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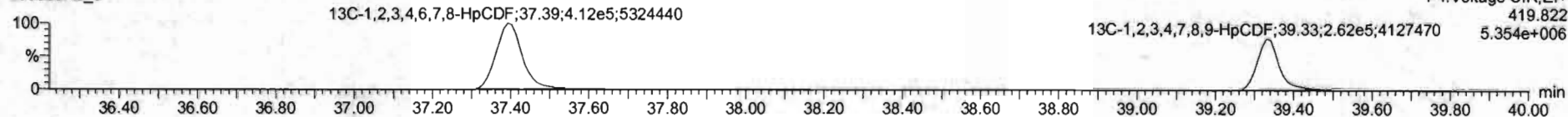


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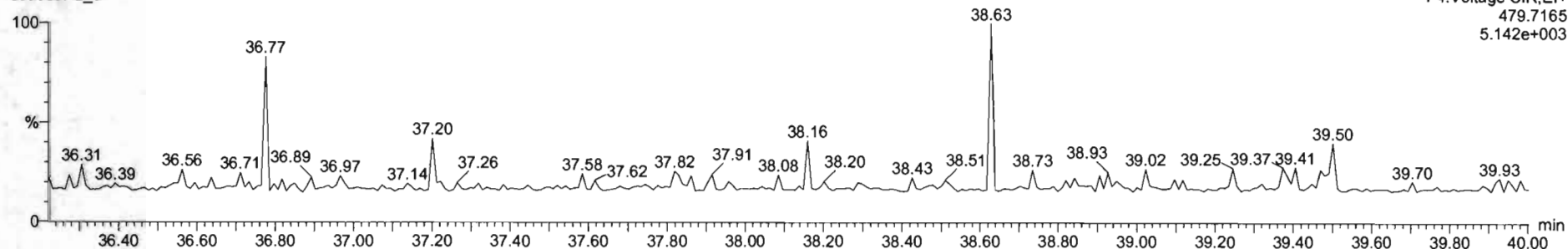


200528R2_6



DPE4

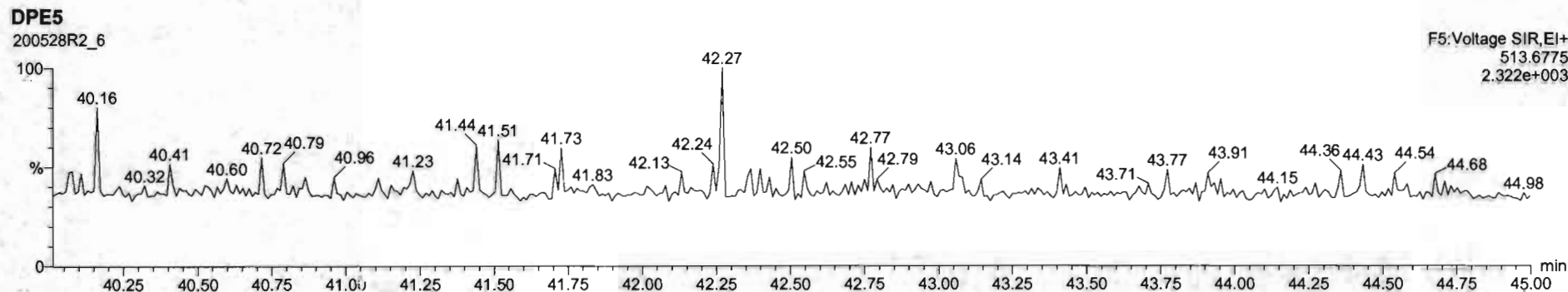
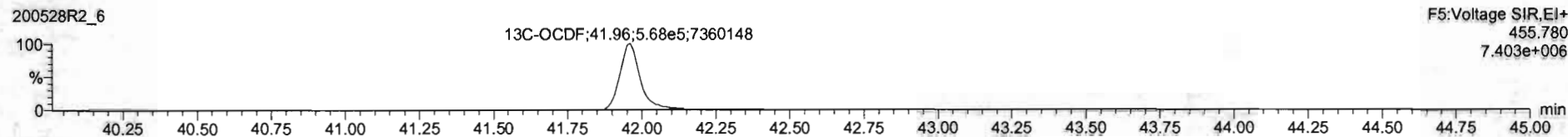
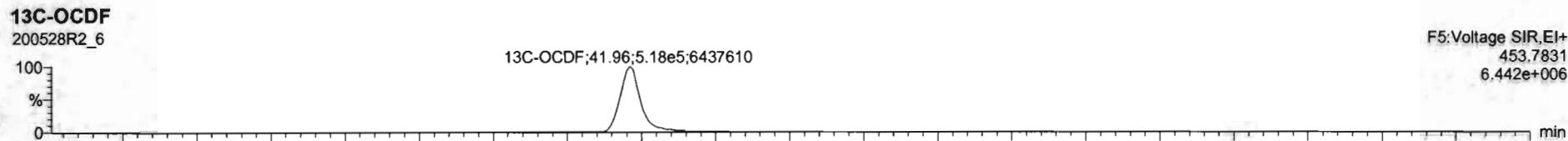
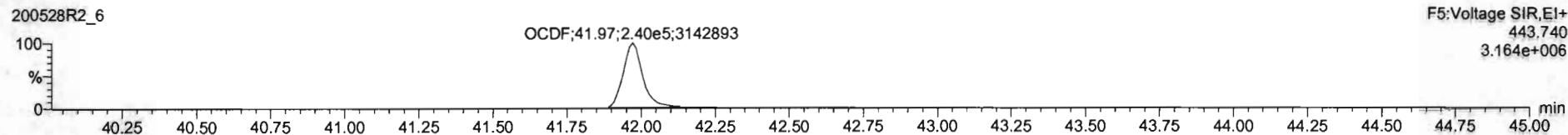
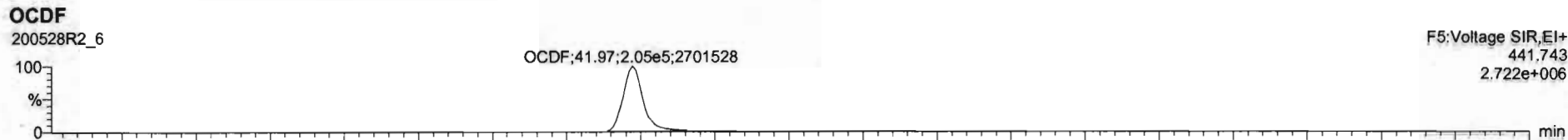
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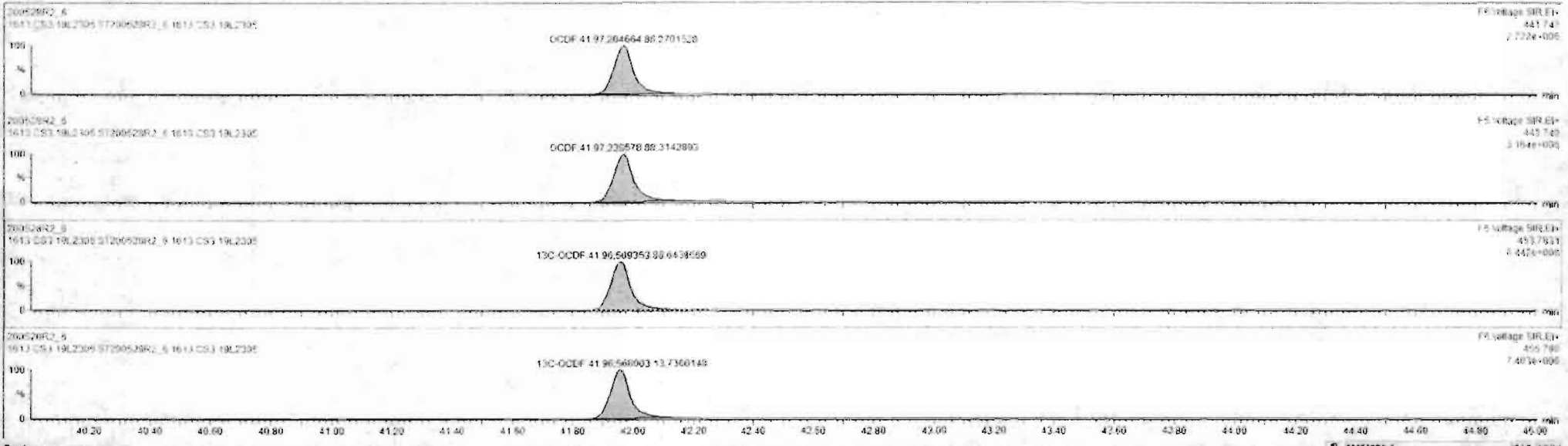
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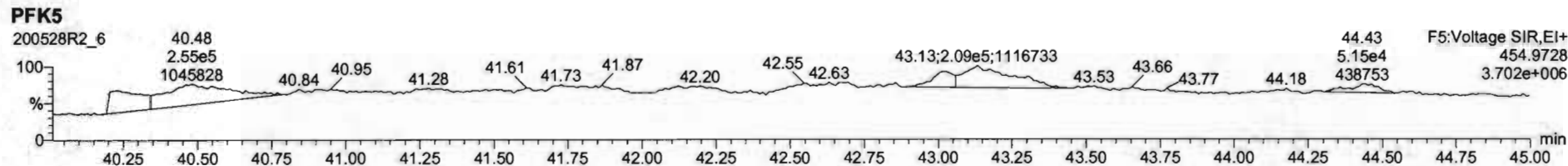
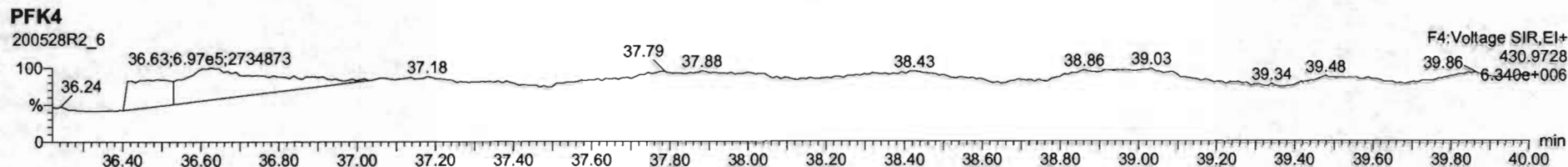
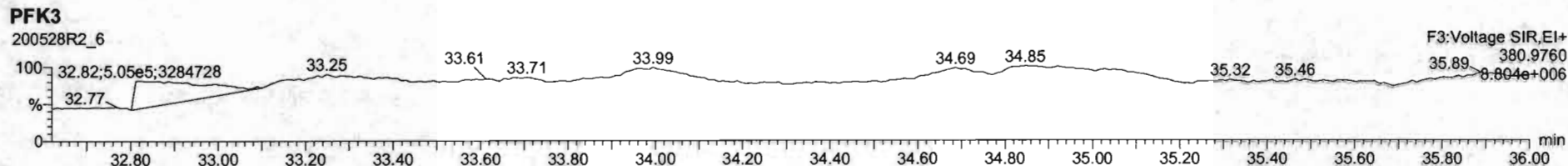
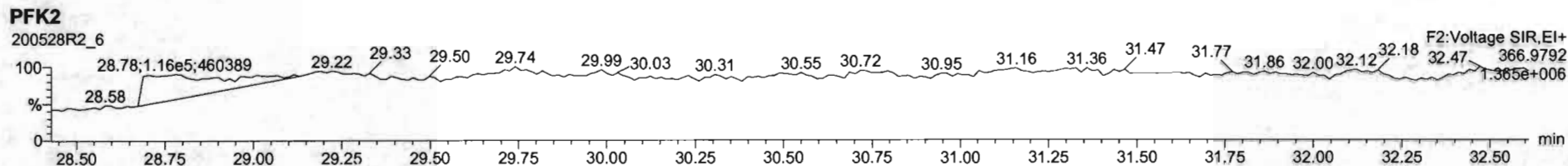
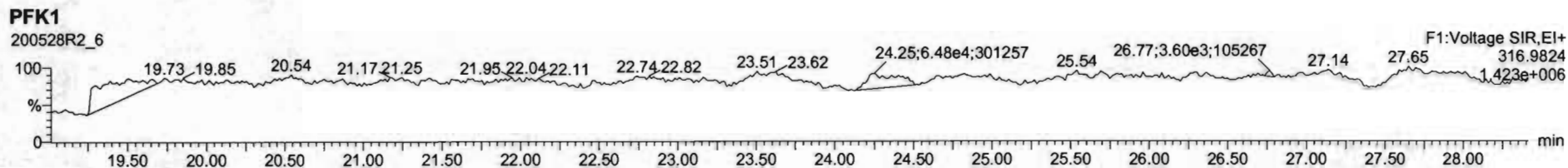
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2	1,2,3,7,8-PeCDD	3.56e5	0.62	NO	0.8091	1.000	31.53	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.99	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	0.51e5	1.34	NO	0.8921	1.000	35.00	1.001	48.3	96.6	0.231	48.3
5	1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.8265	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	77.2	102	0.109	77.2
7	OCDD	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	5.72e5	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	0.61e5	1.57	NO	0.9349	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	0.8252	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	0.8757	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	39.14	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-TCDD	1.16e6	0.79	NO	1.1523	1.000	26.19	1.024	101	101	0.0680	
19	13C-1,2,3,7,8-PeCDD	6.48e5	0.64	NO	0.8456	1.000	31.53	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	0.64e5	1.27	NO	0.7750	1.000	34.98	1.014	95.9	95.9	0.168	
21	13C-1,2,3,6,7,8-HxCDD	0.15e5	1.23	NO	1.8187	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



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Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

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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	

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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

	# 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	

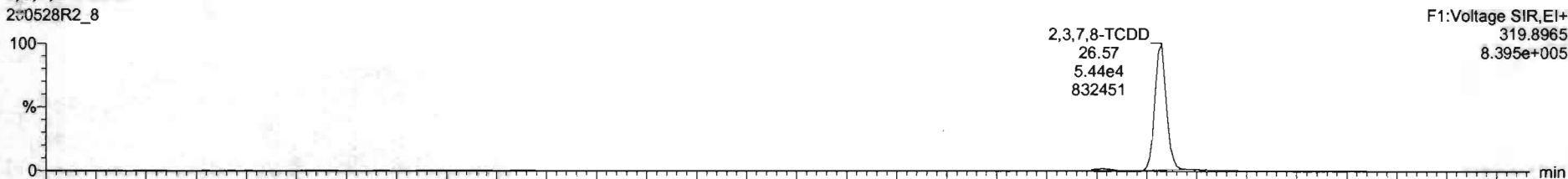
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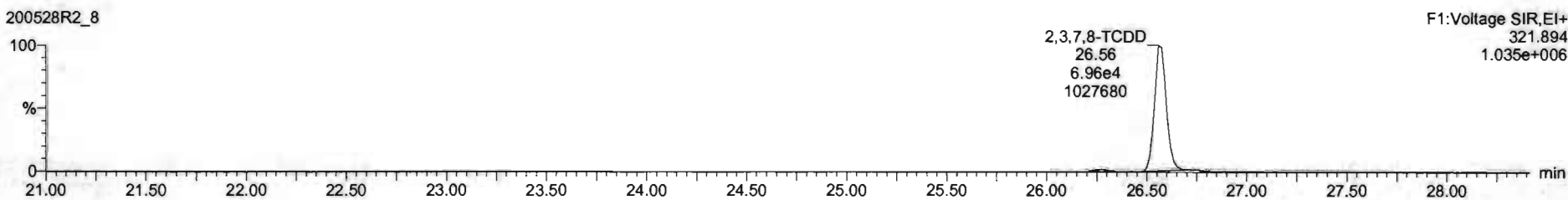
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

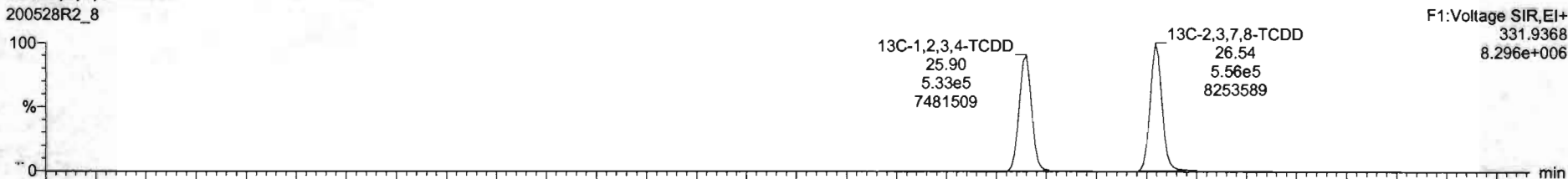
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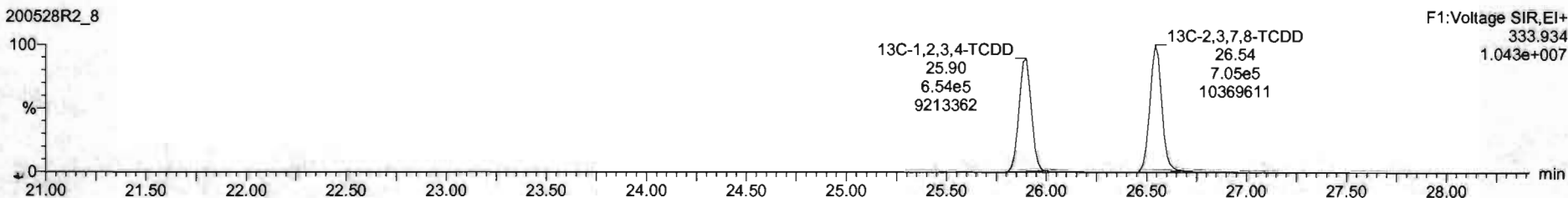
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200528R2_8



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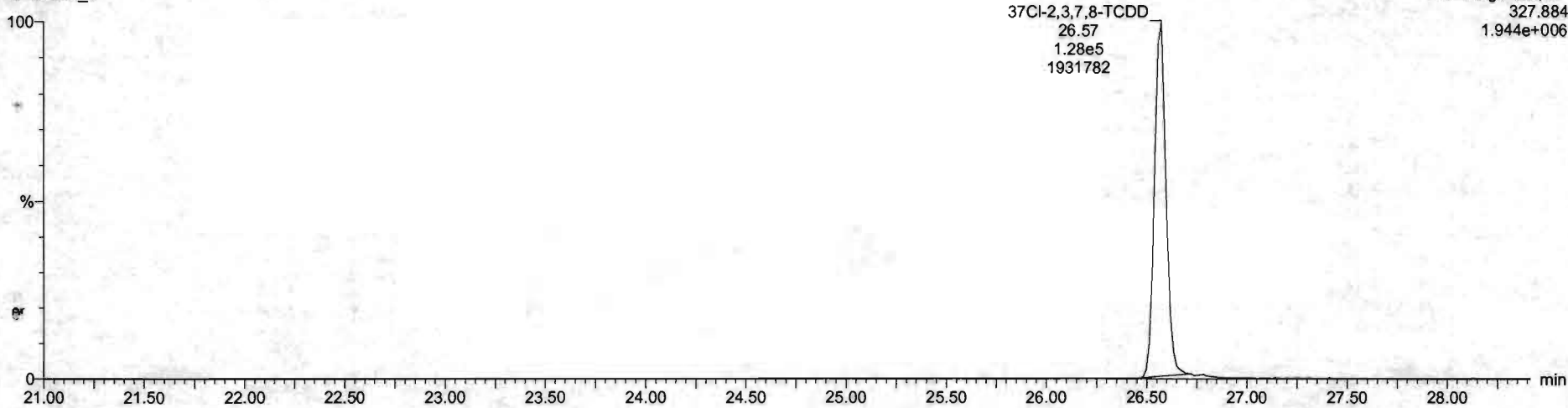
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

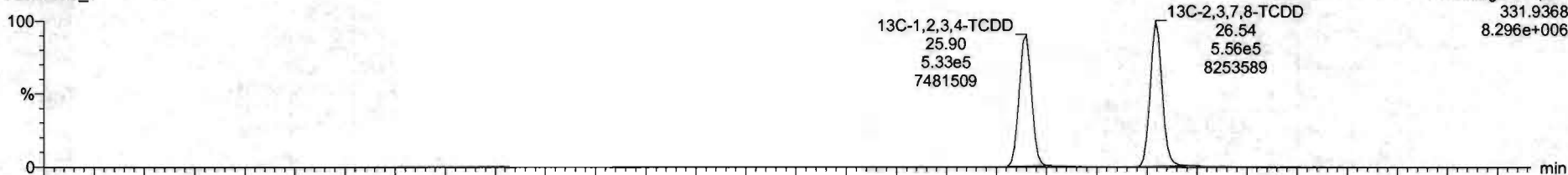
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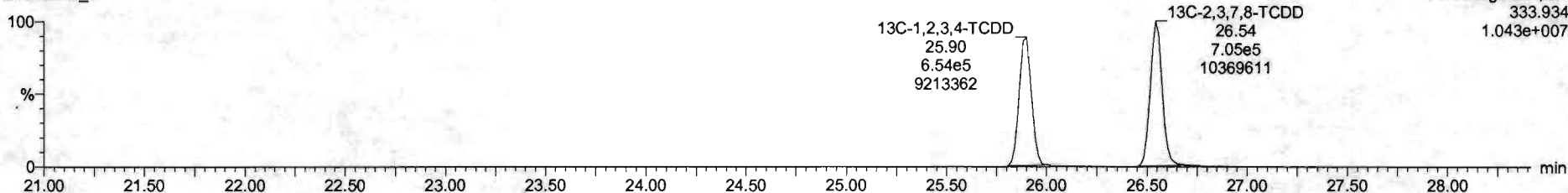


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200528R2_8



200528R2_8



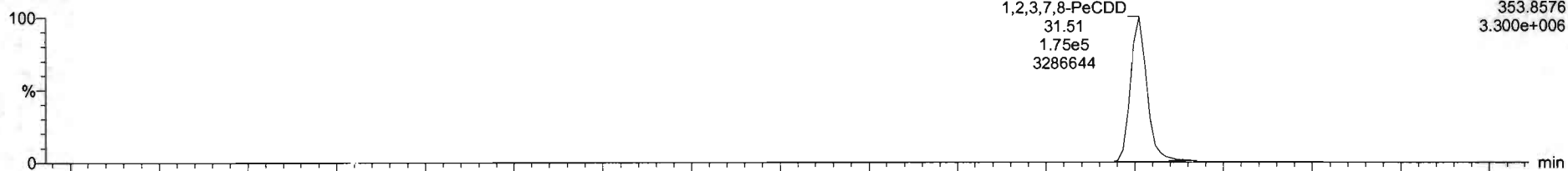
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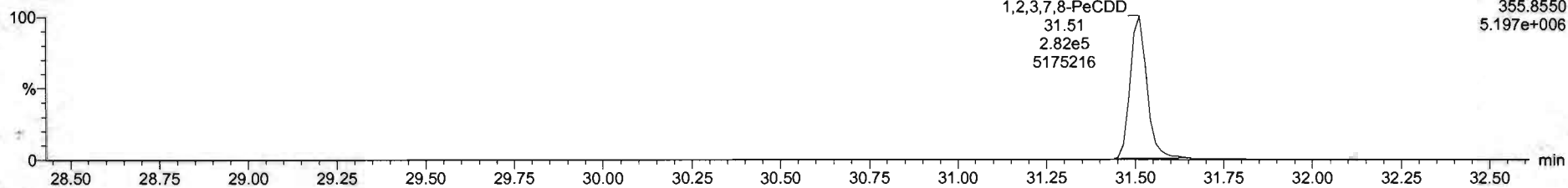
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1,2,3,7,8-PeCDD

200528R2_8

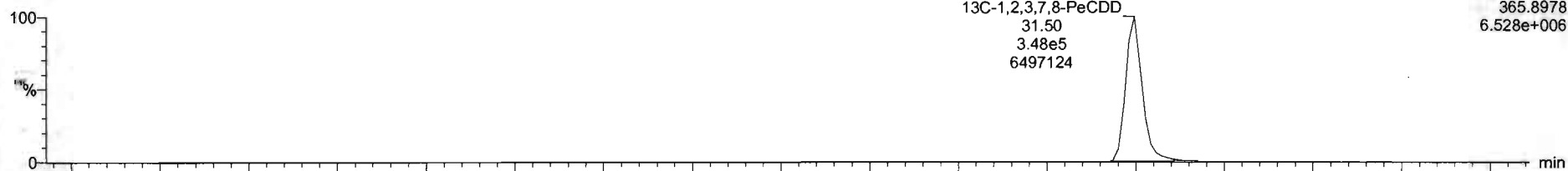


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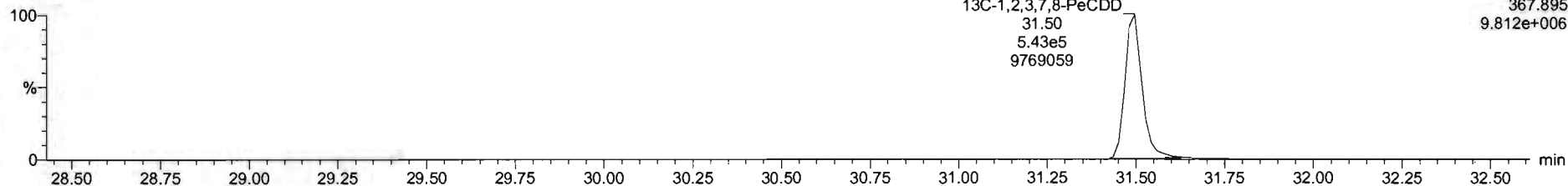


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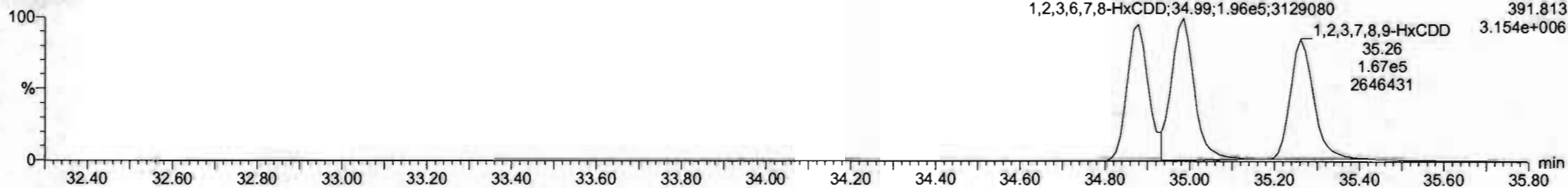
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1,2,3,4,7,8-HxCDD

200528R2_8

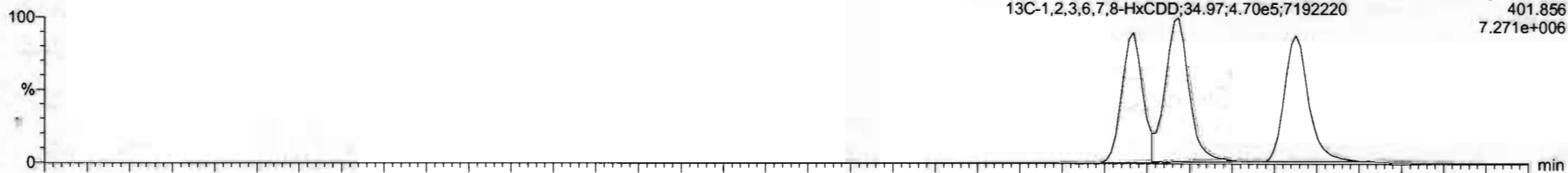


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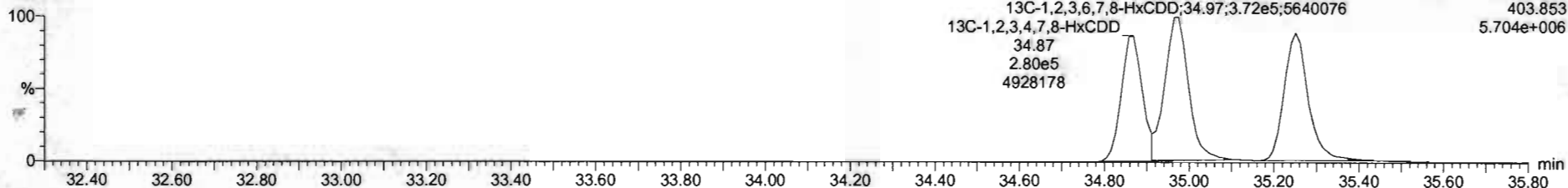


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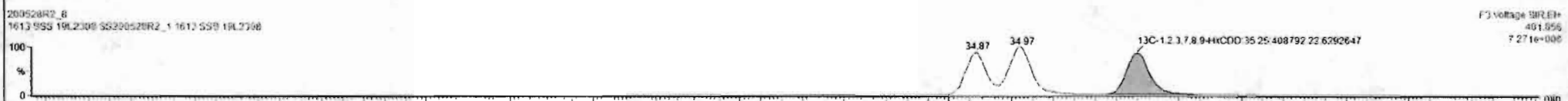
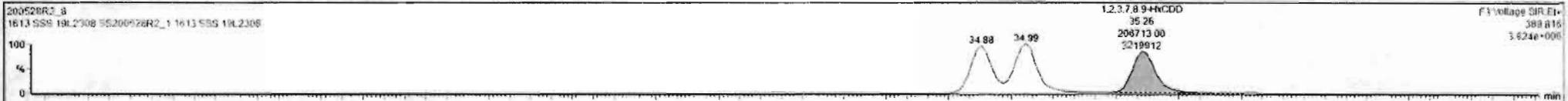
200528R2_8



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	



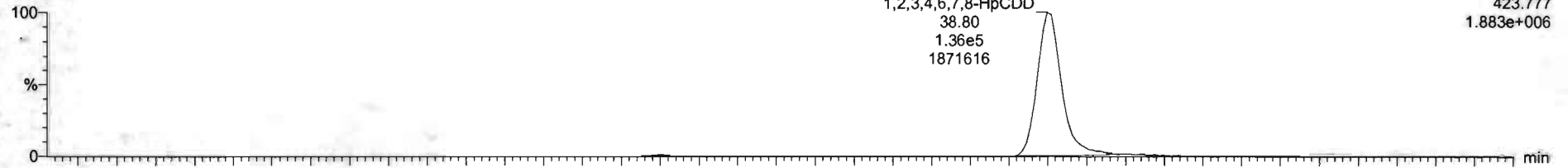
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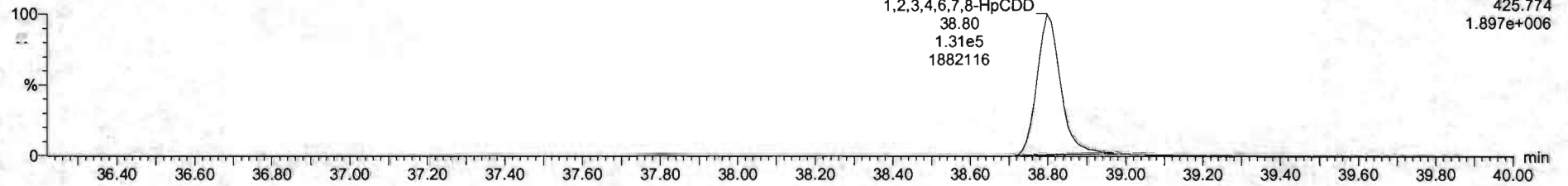
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1,2,3,4,6,7,8-HpCDD

200528R2_8

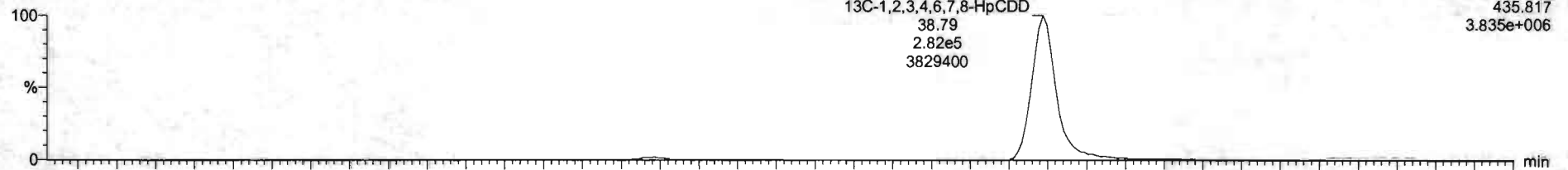


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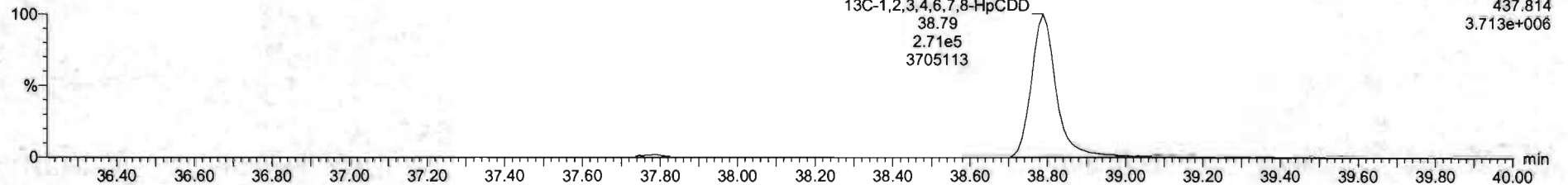


13C-1,2,3,4,6,7,8-HpCDD

200528R2_8



200528R2_8



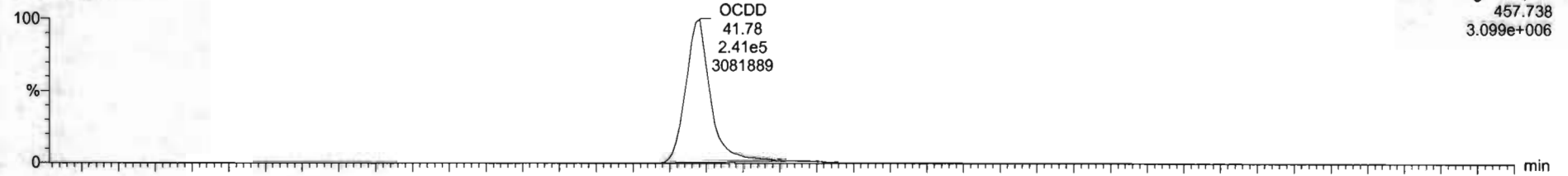
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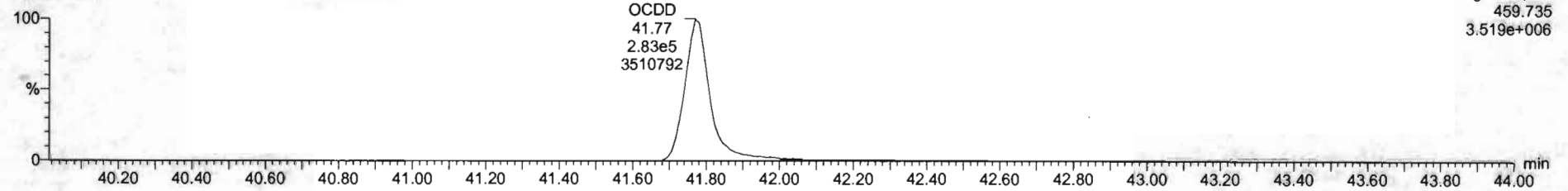
OCDD

200528R2_8



F5: Voltage SIR, EI+
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3.099e+006

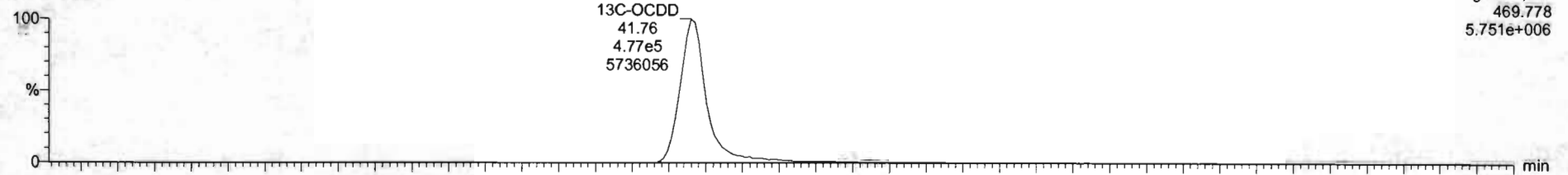
200528R2_8



F5: Voltage SIR, EI+
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3.519e+006

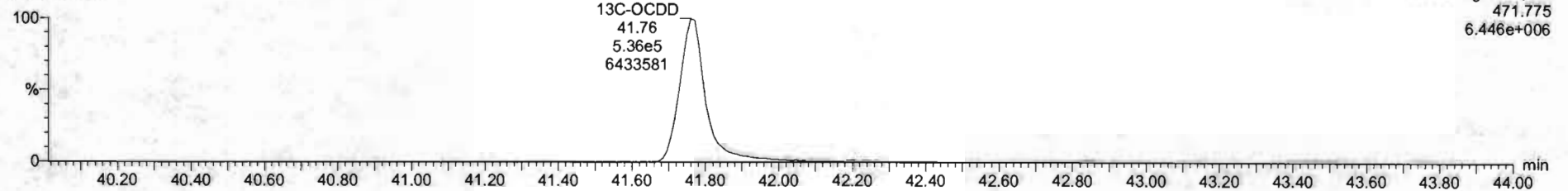
13C-OCDD

200528R2_8



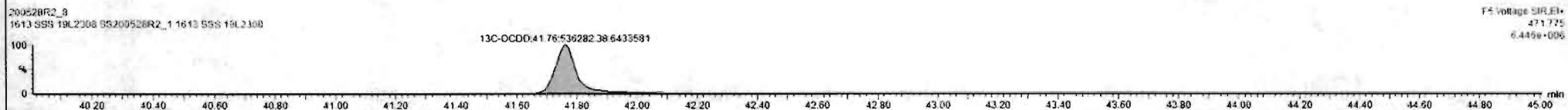
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200528R2_8



F5: Voltage SIR, EI+
471.775
6.446e+006

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	58.6
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	



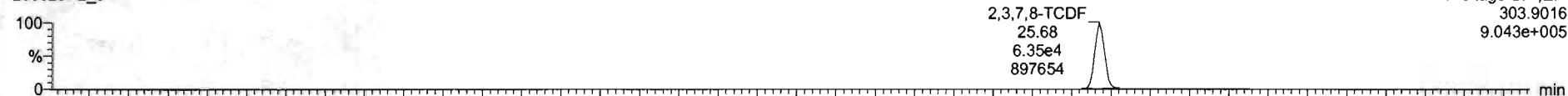
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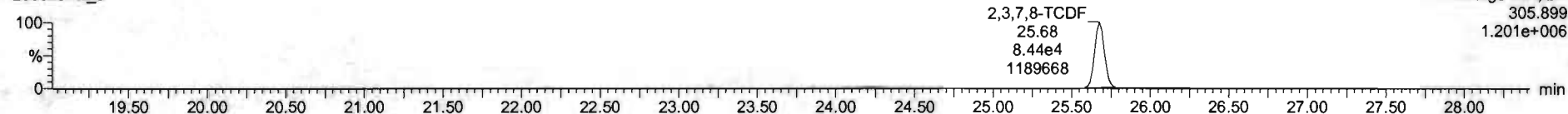
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2,3,7,8-TCDF

200528R2_8

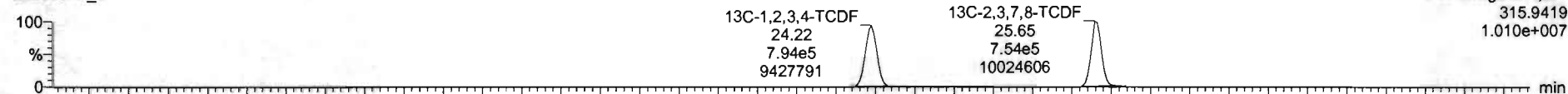


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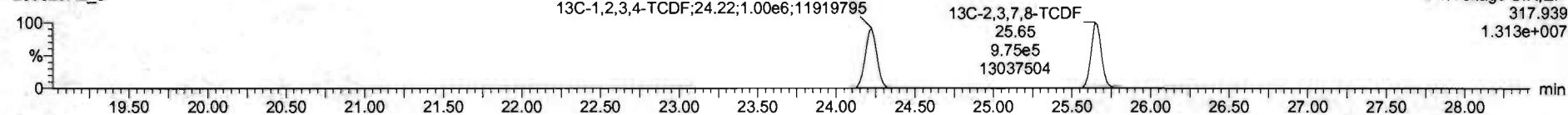


13C-2,3,7,8-TCDF

200528R2_8

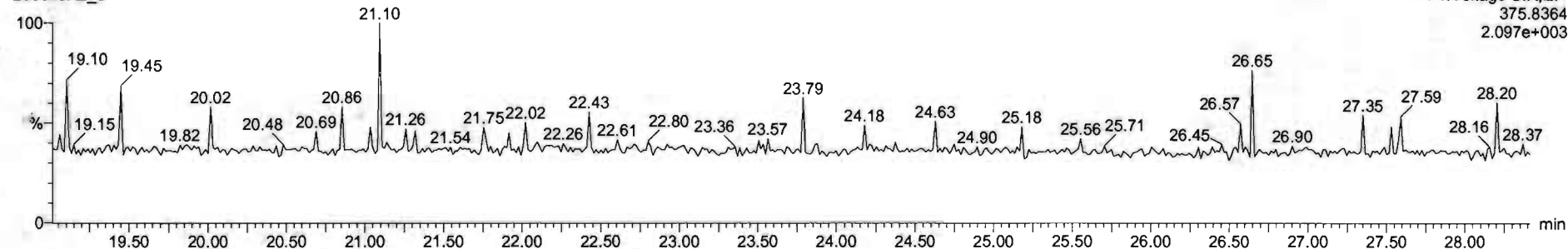


200528R2_8



DPE1

200528R2_8



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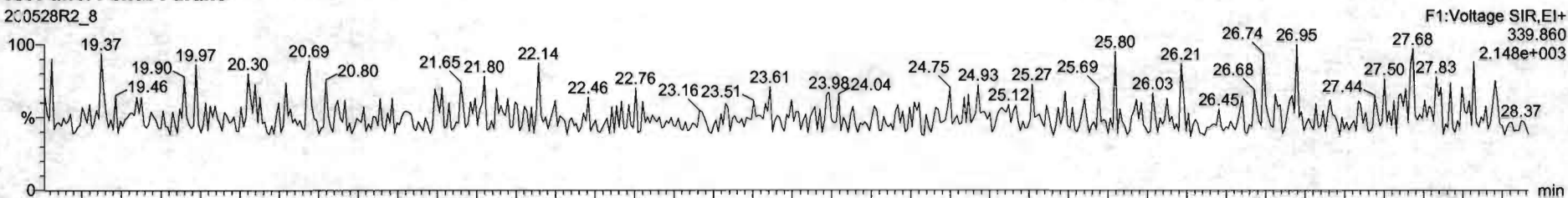
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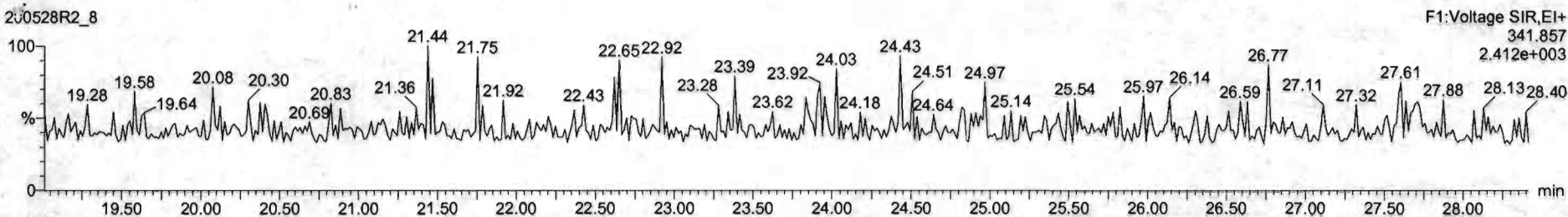
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1st Func. Penta-Furans

200528R2_8

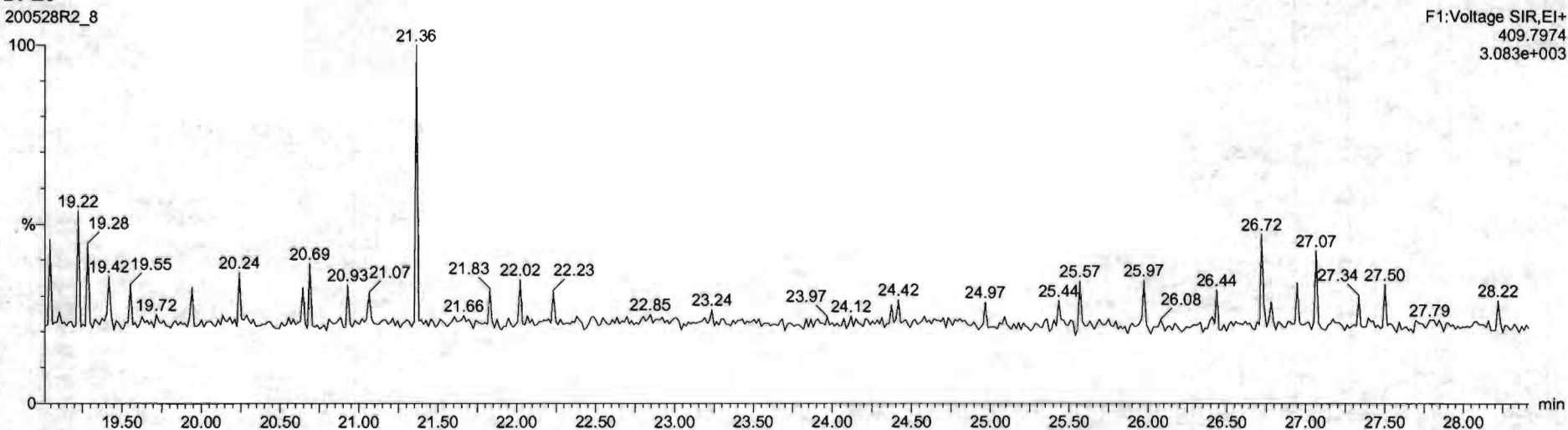


200528R2_8



DPE6

200528R2_8



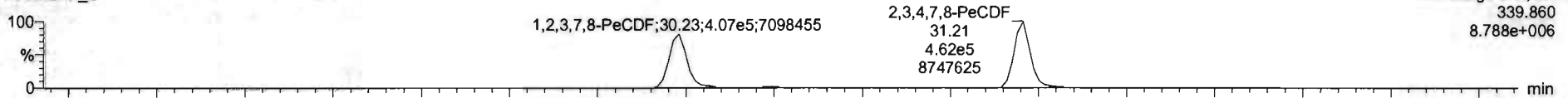
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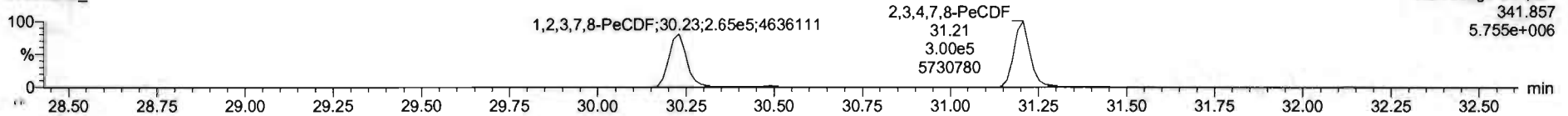
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1,2,3,7,8-PeCDF

200528R2_8

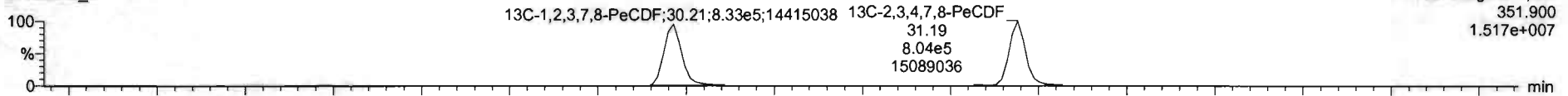


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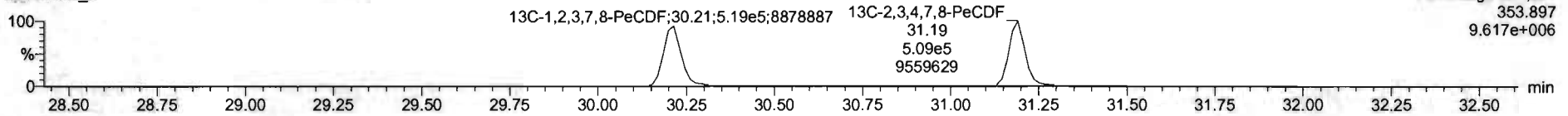


13C-1,2,3,7,8-PeCDF

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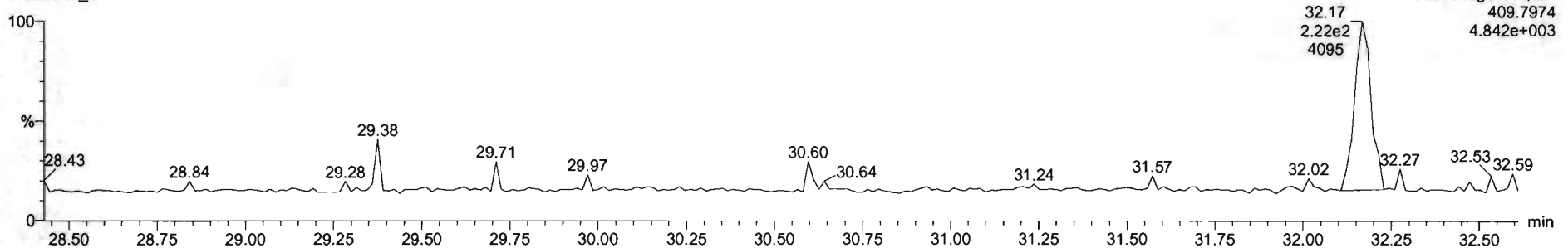


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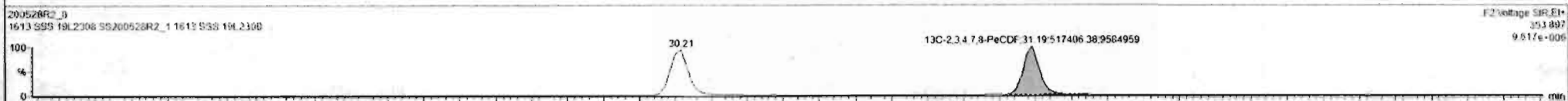
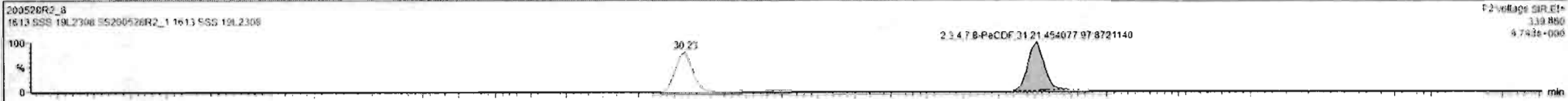


DPE2

200528R2_8



Name	Resp	RA	nly	RRF	wt/vol	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	0.0942	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	0.8252	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	



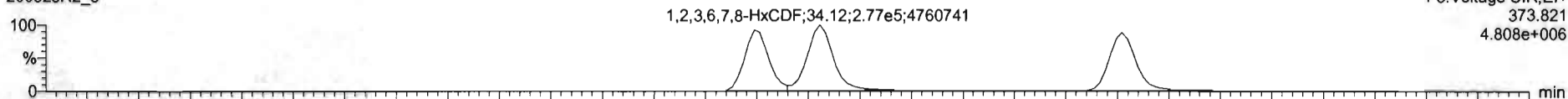
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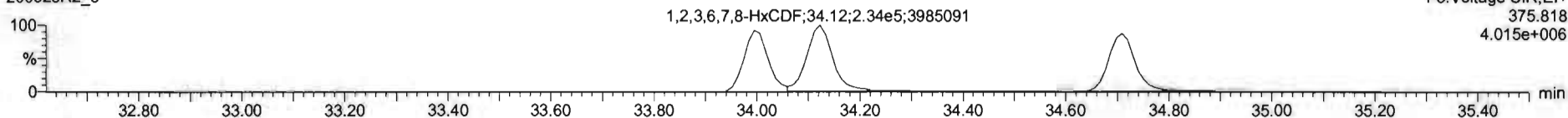
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1,2,3,4,7,8-HxCDF

200528R2_8

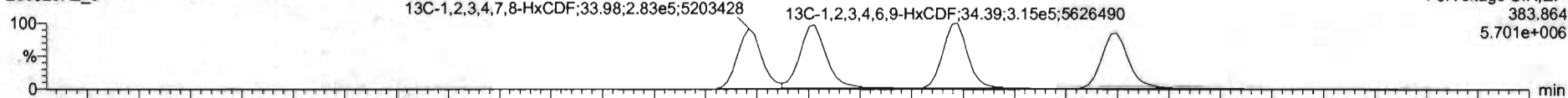


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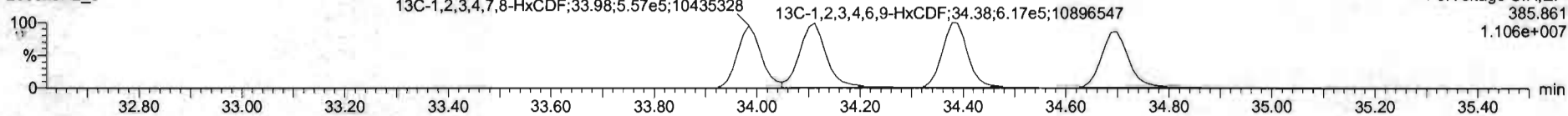


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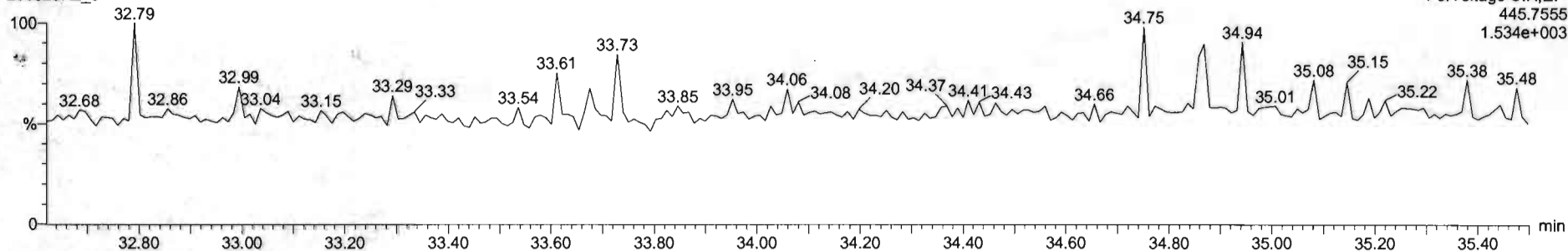


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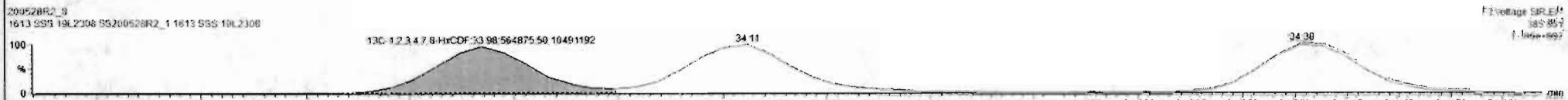
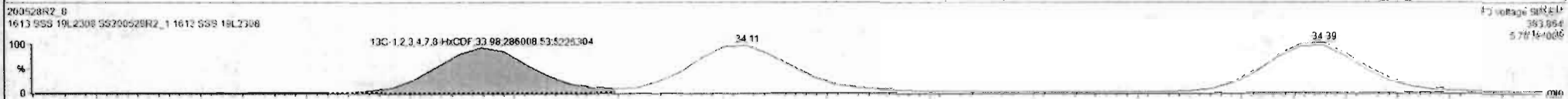
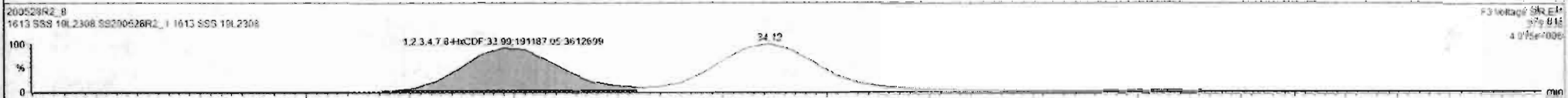
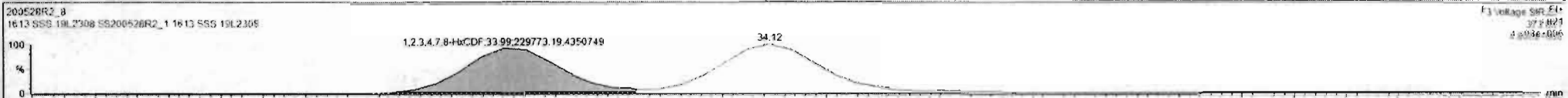


DPE3

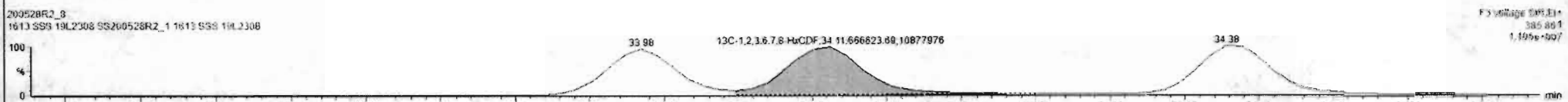
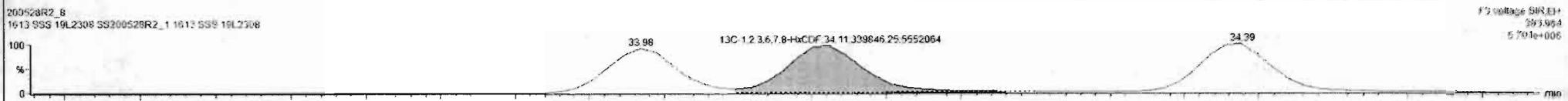
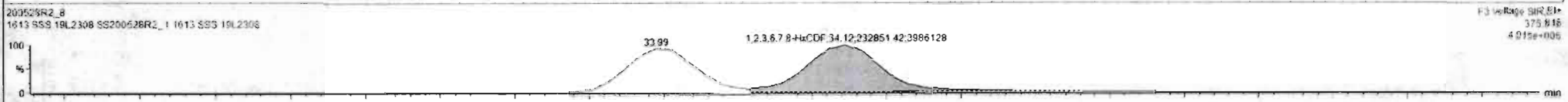
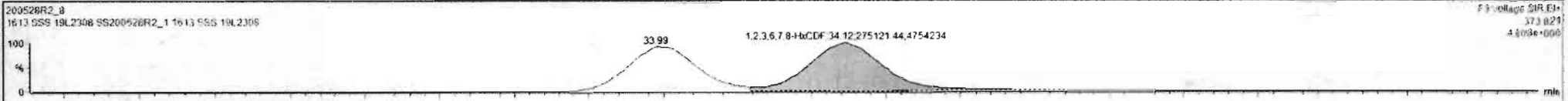
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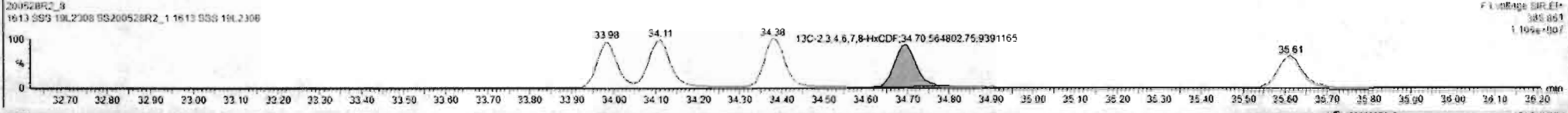
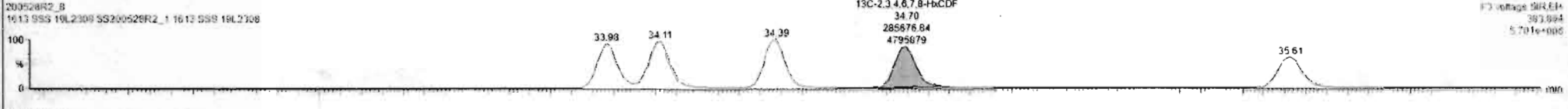
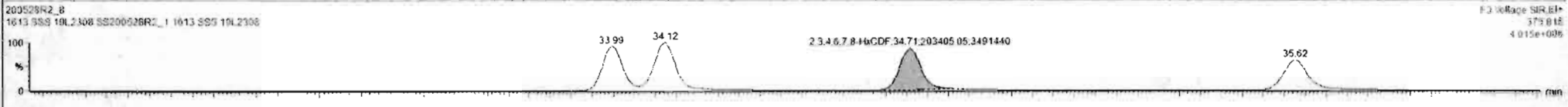
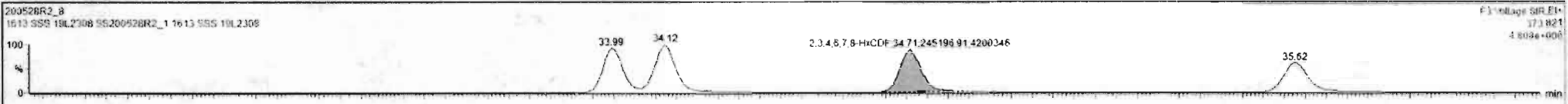
Name	Resp	RA	nly	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.8981	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	24.86	1.000	56.0	116	0.1011	56.0
4 1,2,3,6,7,8-HxCDD	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	35.50	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	33.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8882	1.000	34.12	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	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	3.16e5	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	1.0120	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	0.8923	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	0.8969	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	55.8	112	0.168	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	25.68	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	0.136	



SL	Name	Resp	RA	Adj	RFI	WVol	RT	RRT	Conc	%Rec	DL	EMFC
1	2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	28.57	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	1.93	NO	0.9039	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	0.9148	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	0.8845	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	0.8852	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	0.8797	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	0.8085	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	28.54	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	



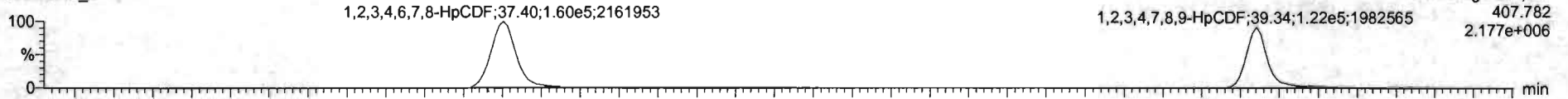
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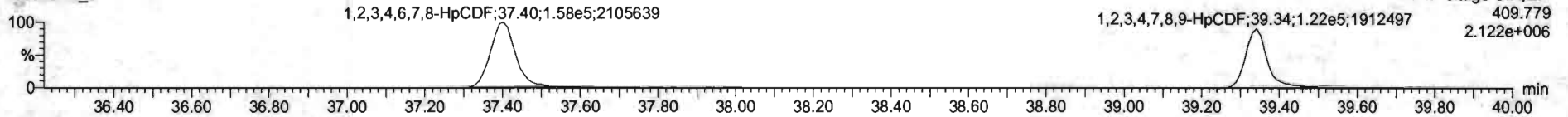
Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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200528R2_8



200528R2_8

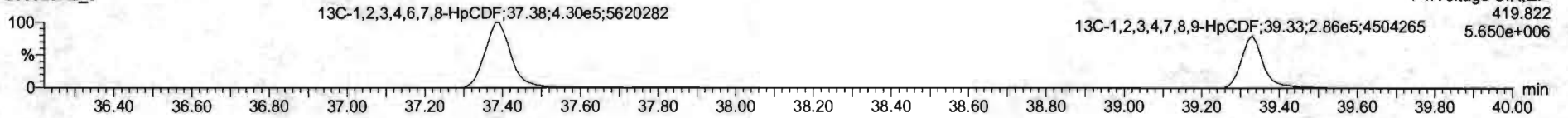


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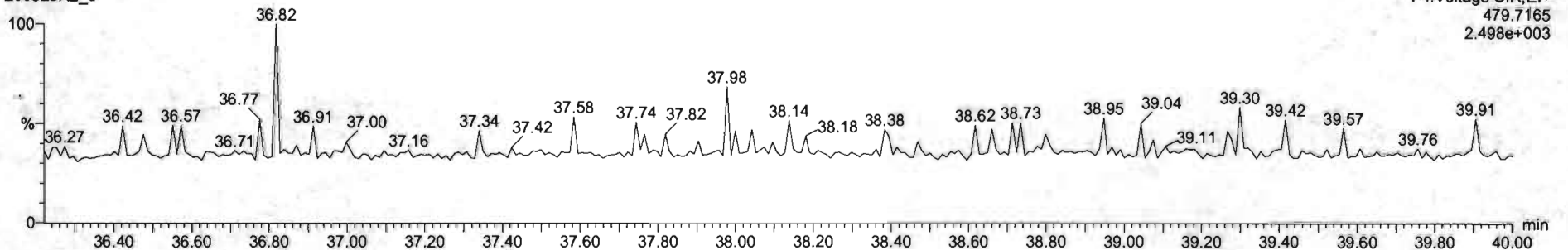


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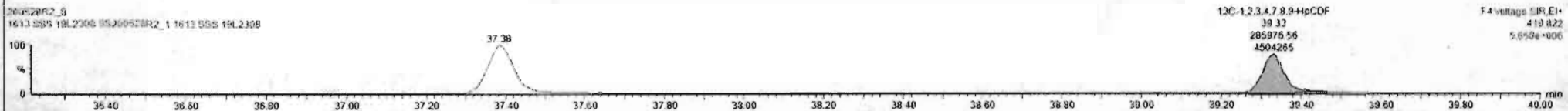


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200528R2_8



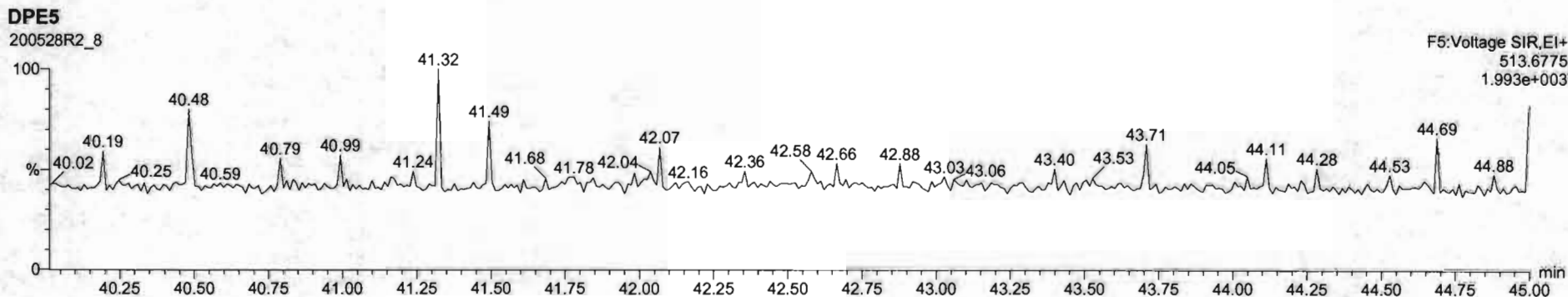
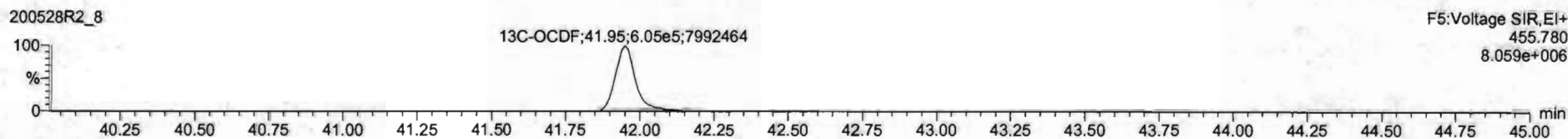
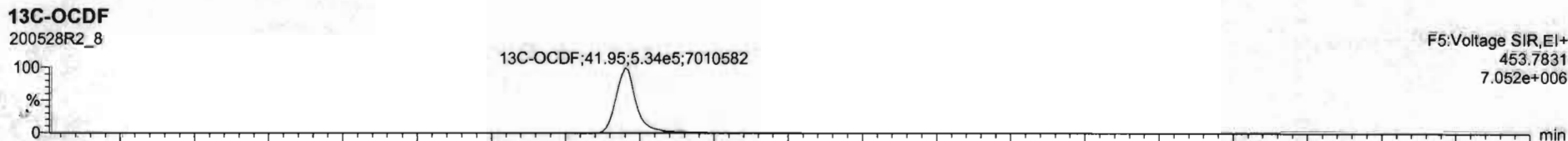
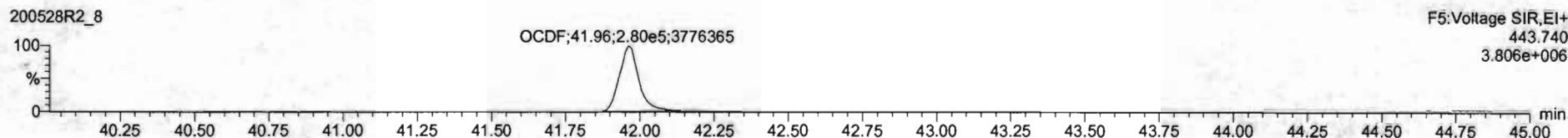
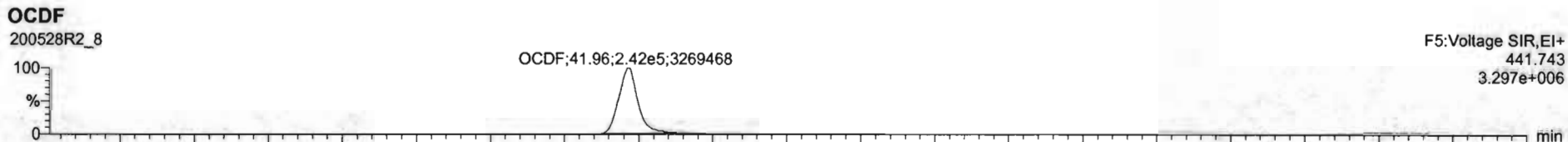
#	Name	Resp	RA	nry	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.82	NO	0.9081	1.000	31.01	1.000	58.4	113	0.0622	58.4
3	1,2,3,4,7,8-HxCDD	2.56e5	1.22	NO	1.0334	1.000	24.86	1.000	58.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	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	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	25.65	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	



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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

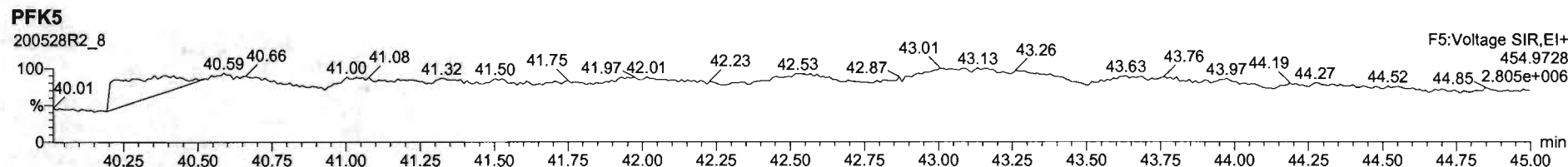
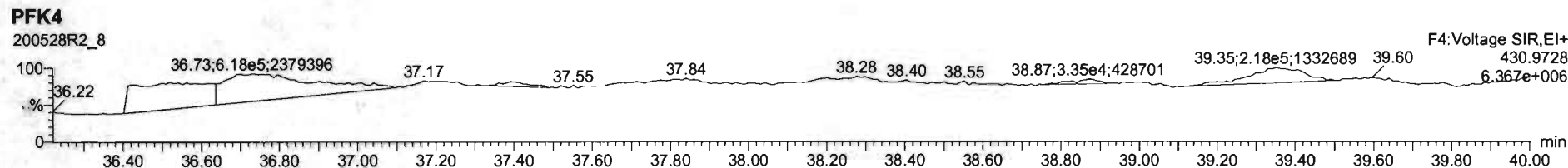
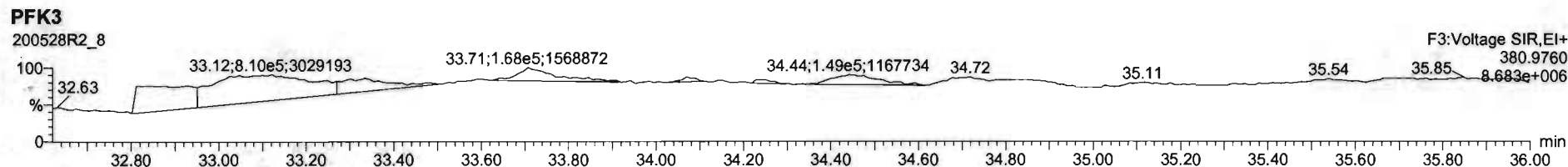
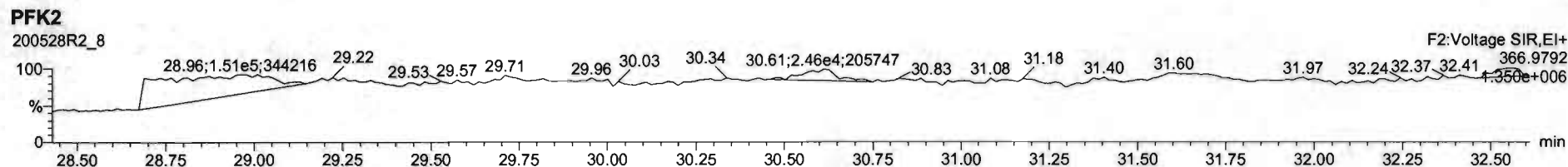
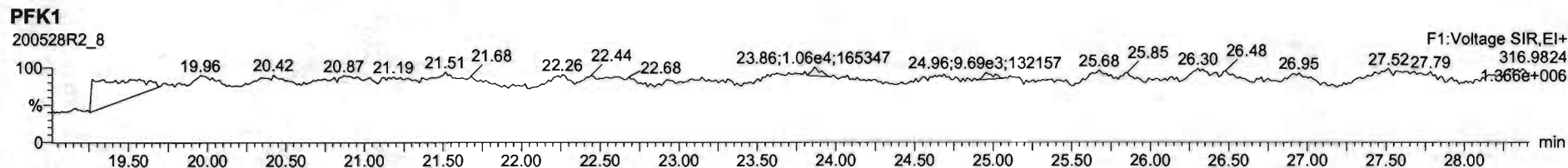
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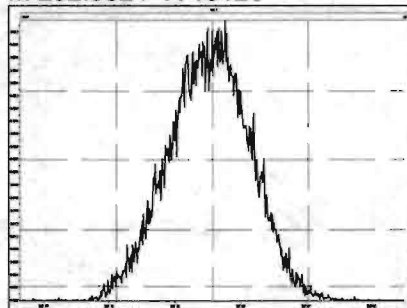
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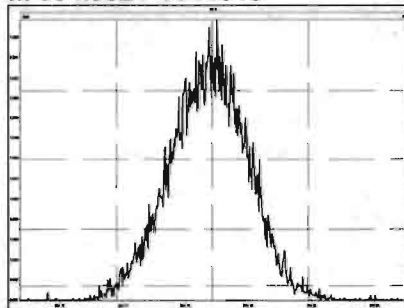
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Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

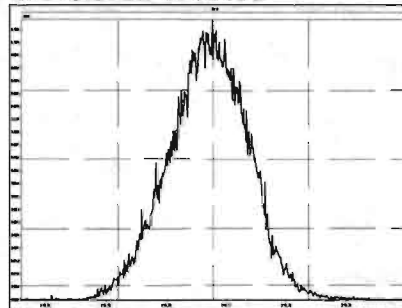
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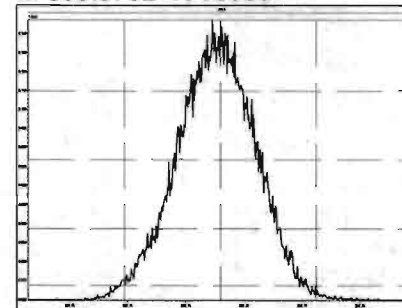
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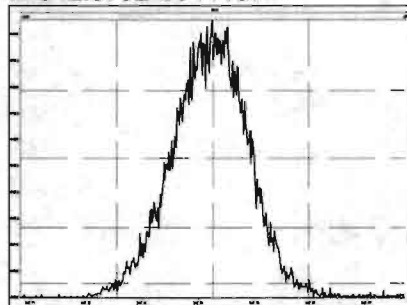
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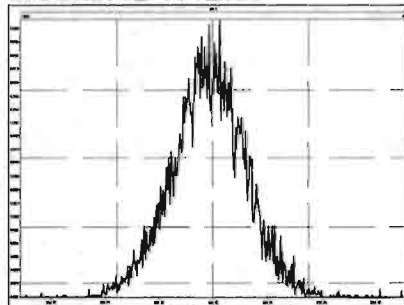
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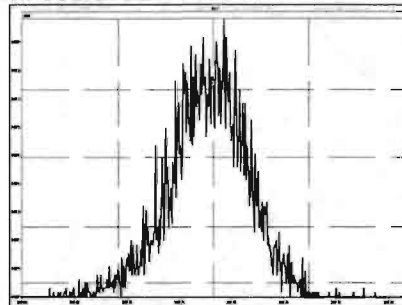
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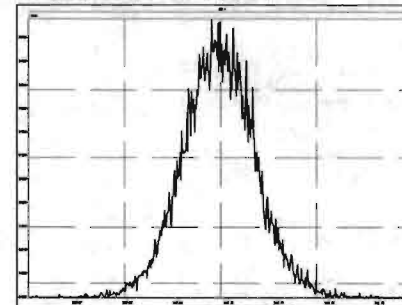
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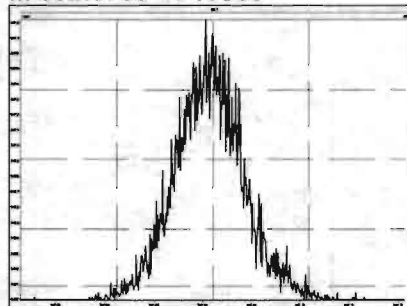
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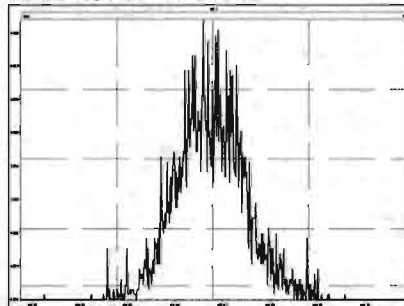
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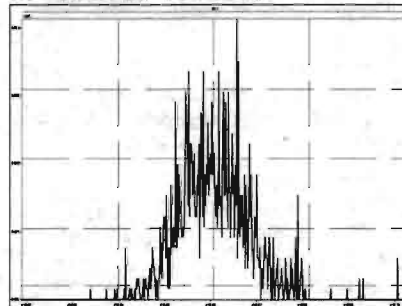
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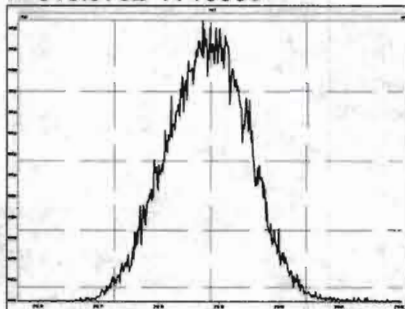
Experiment Calibration Report

MassLynx 4.1 SCN815

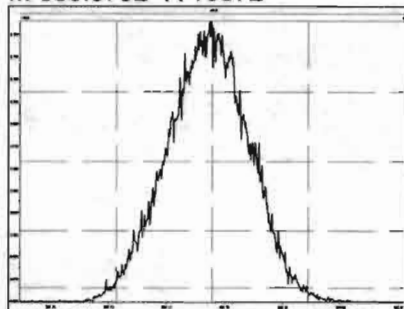
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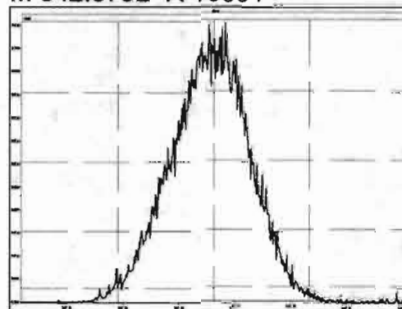
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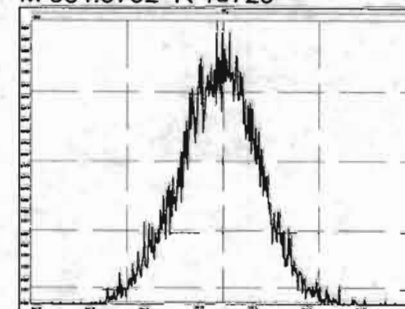
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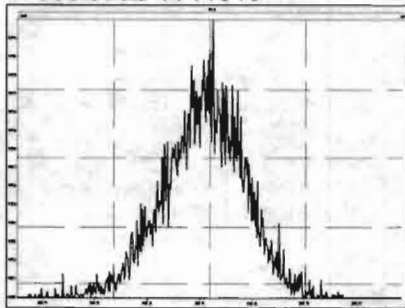
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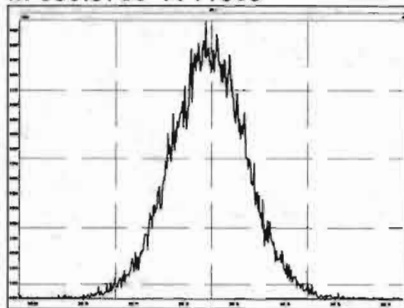
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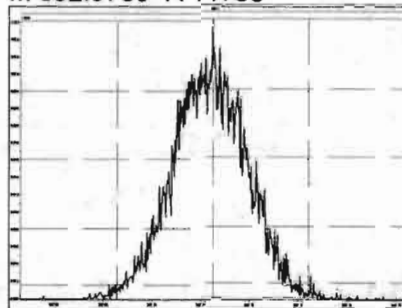
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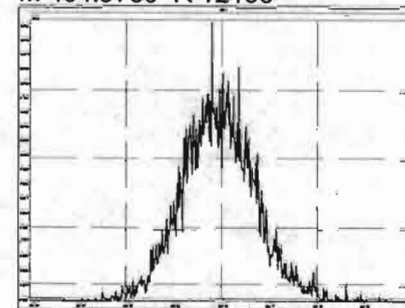
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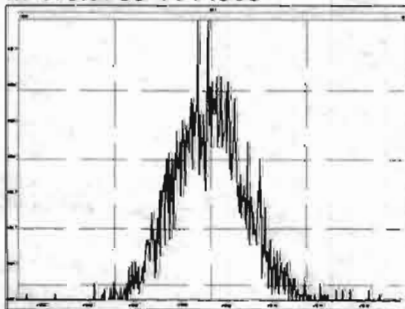
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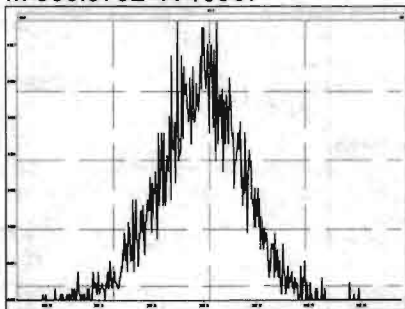
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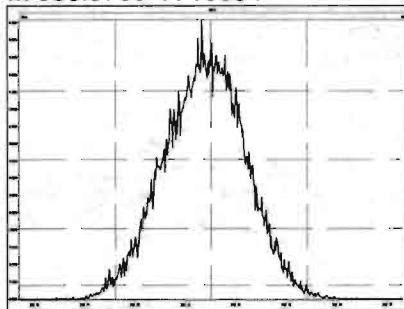
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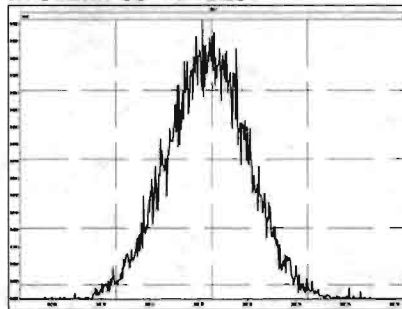
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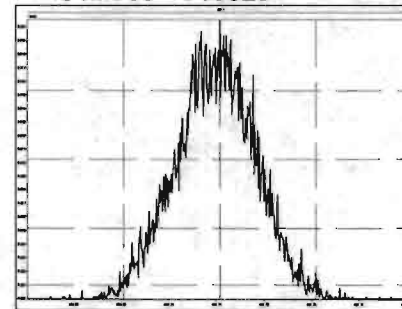
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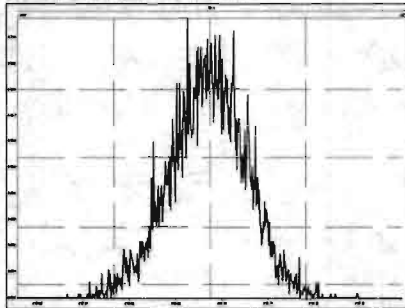
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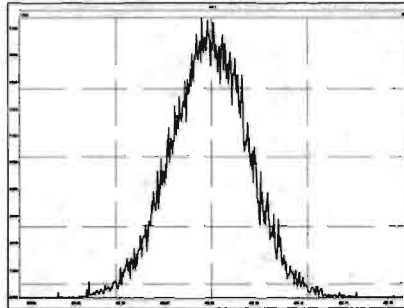
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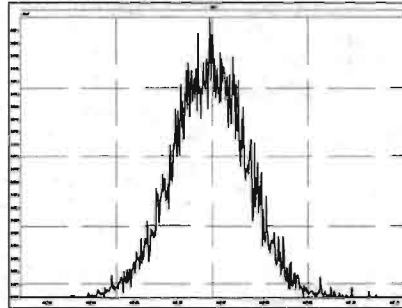
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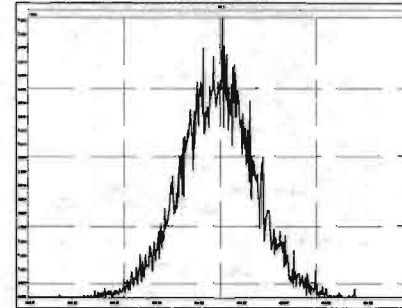
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M 442.9728 R 12195



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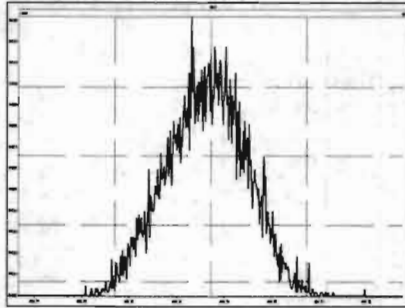
Experiment Calibration Report

MassLynx 4.1 SCN815

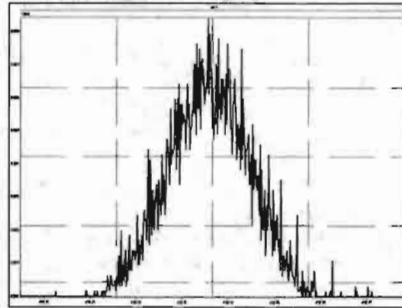
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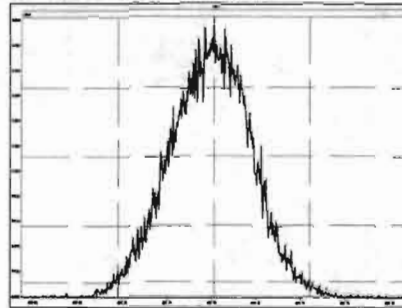
M 404.9760 R 10963



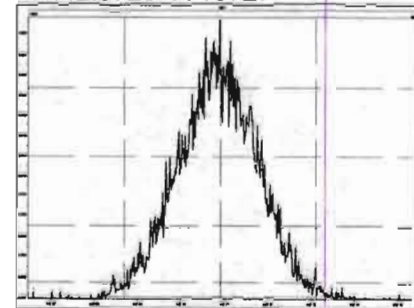
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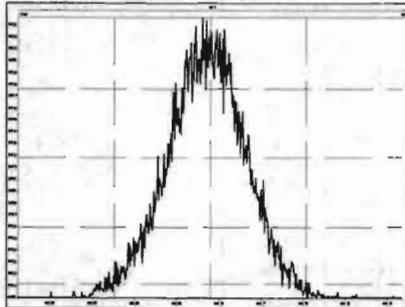
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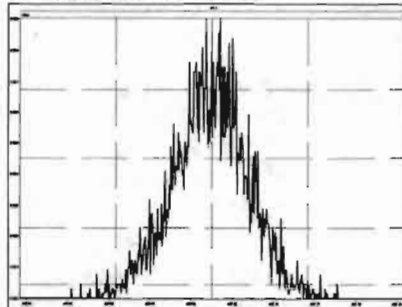
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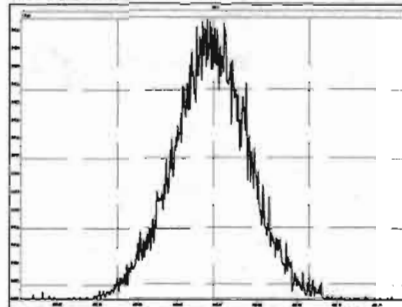
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M 466.9728 R 12628



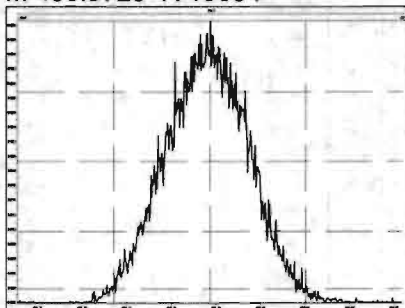
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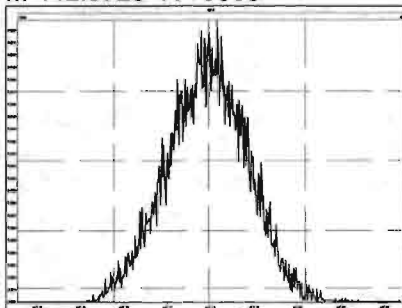
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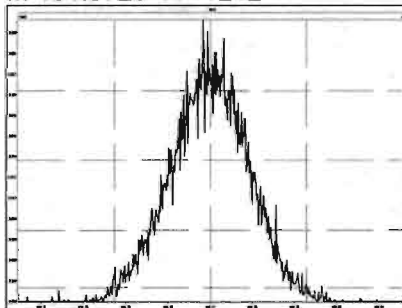
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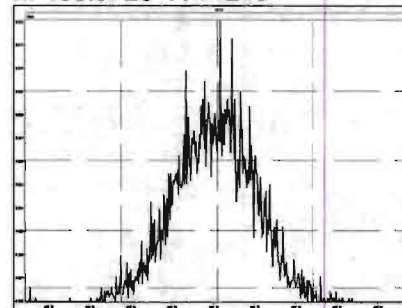
M 442.9728 R 10868



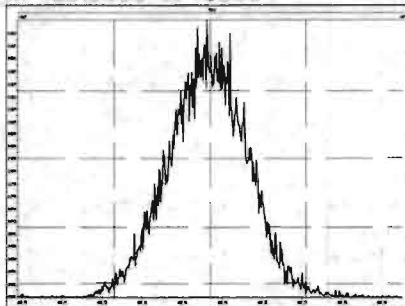
M 454.9728 R 11212



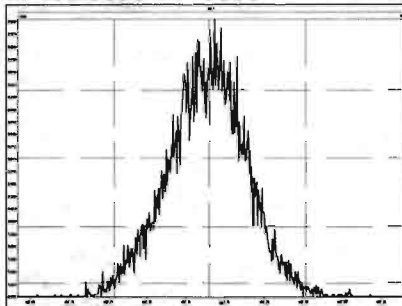
M 466.9728 R 11210



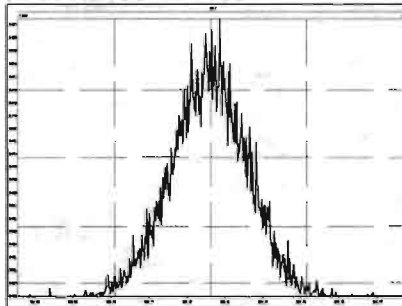
M 480.9696 R 10963



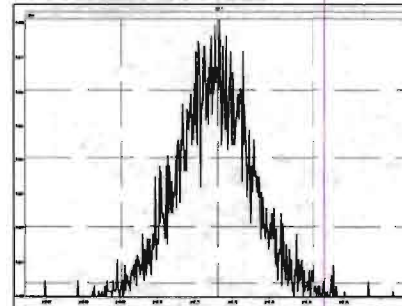
M 492.9696 R 10593



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

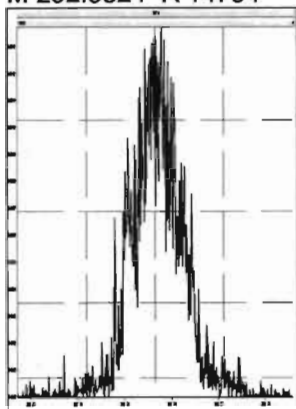
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Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

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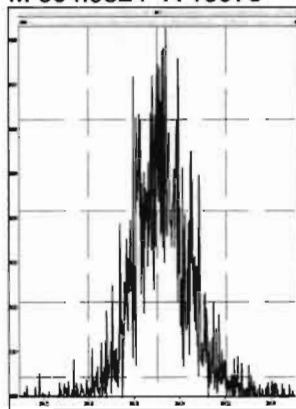
Compound name: 2,3,7,8-TCDF

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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
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017 ...	12-Feb-20	03:52:45

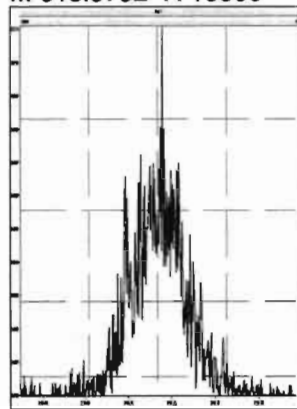
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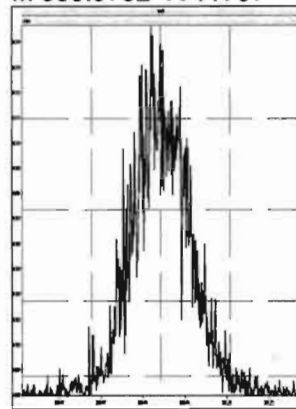
M 304.9824 R 15978



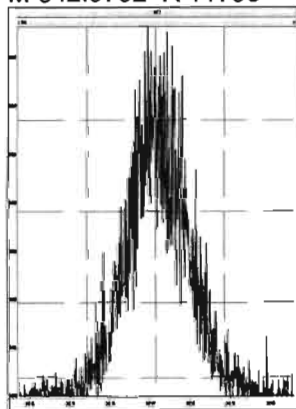
M 318.9792 R 15503



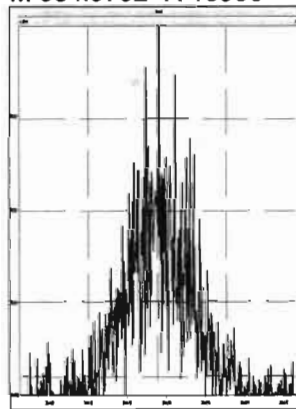
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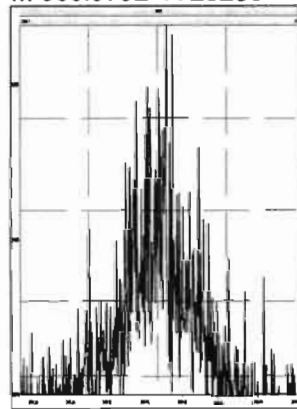
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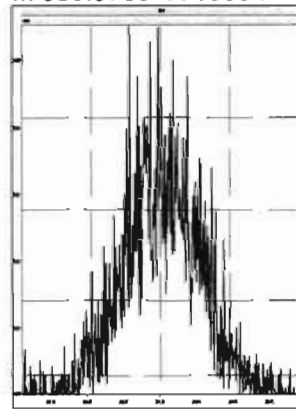
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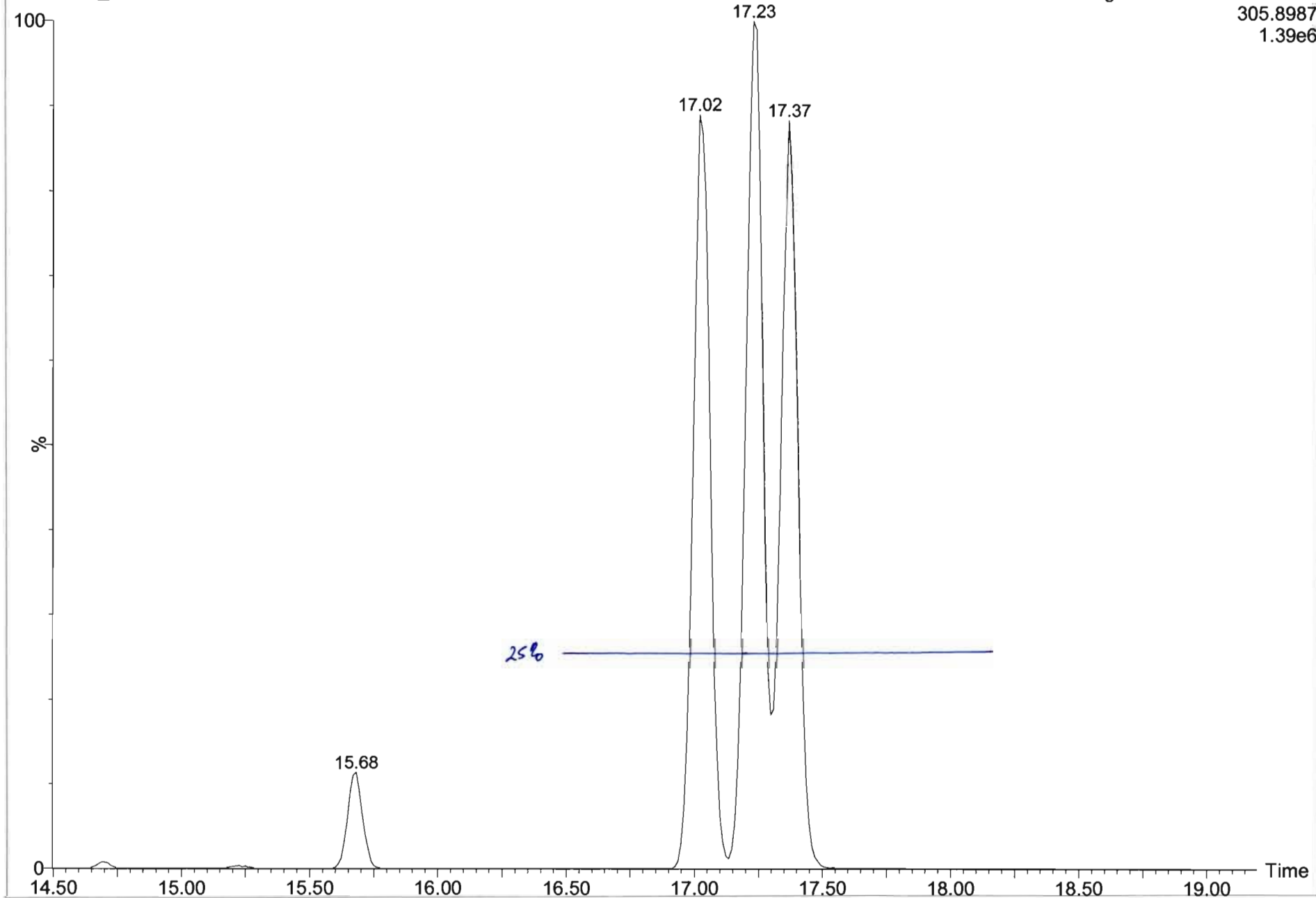


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

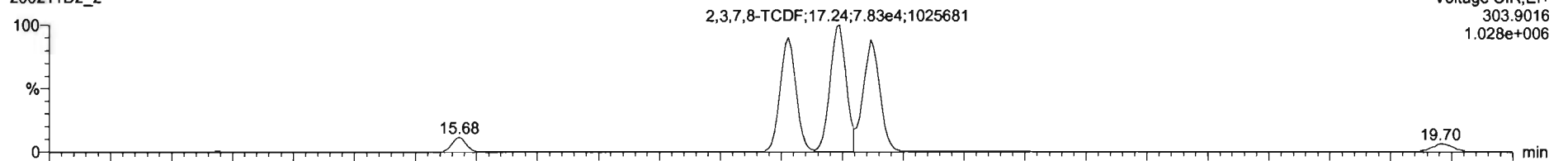
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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

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Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

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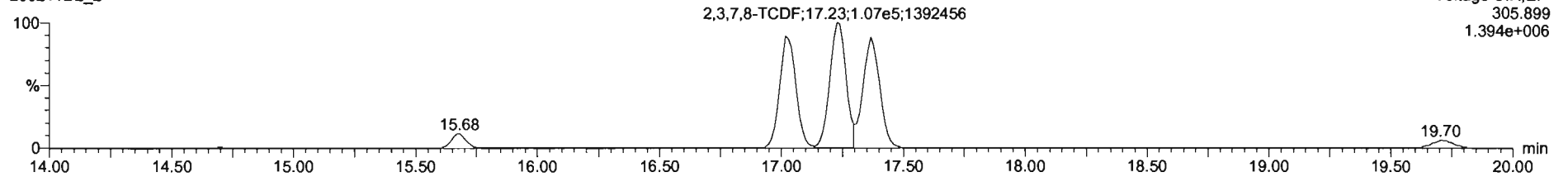
2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
303.9016
1.028e+006

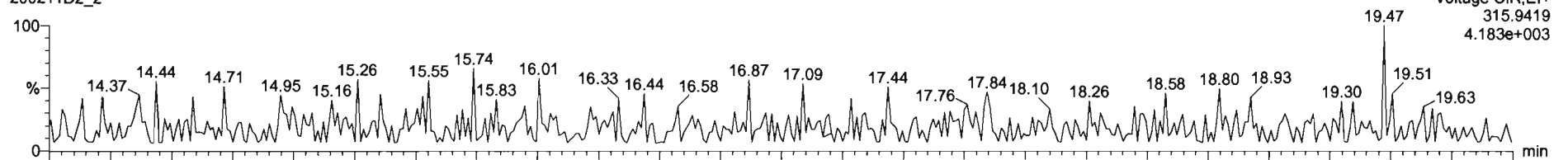
200211D2_2



Voltage SIR,EI+
305.899
1.394e+006

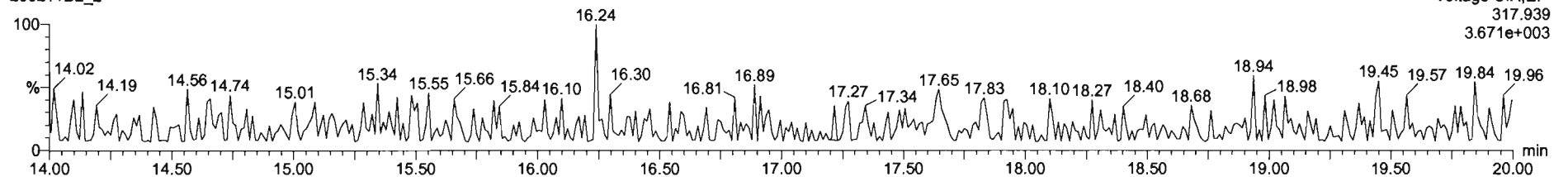
13C-2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
315.9419
4.183e+003

200211D2_2



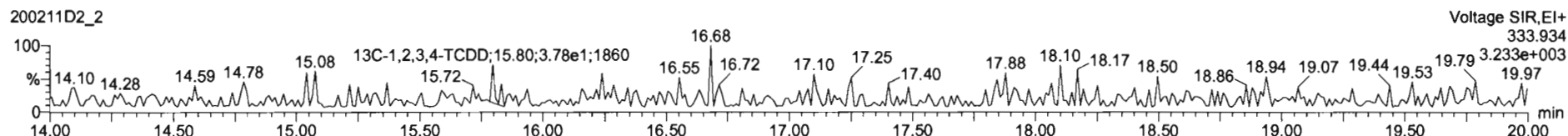
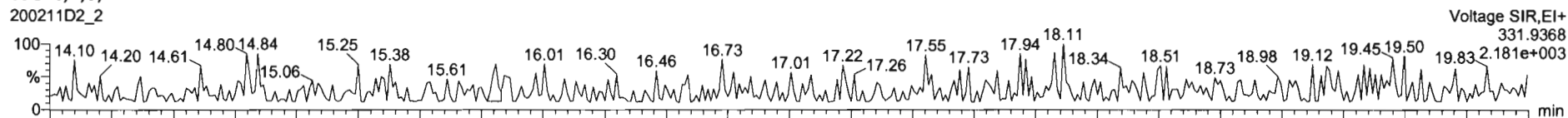
Voltage SIR,EI+
317.939
3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

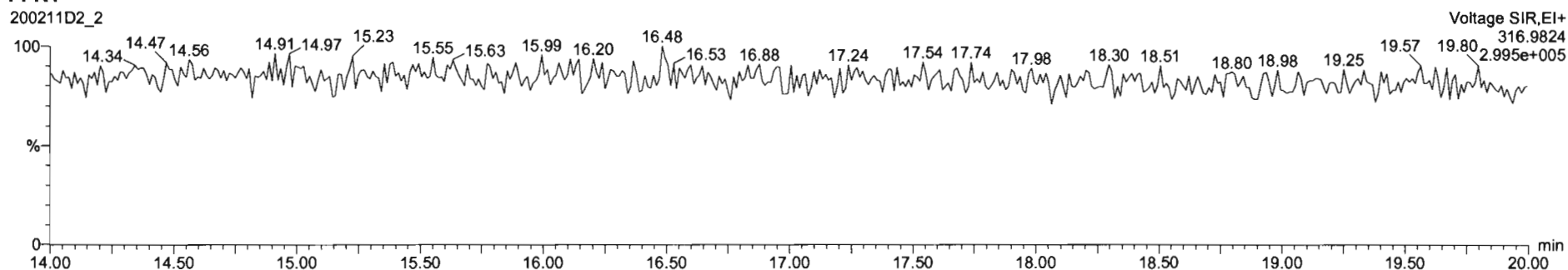
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Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

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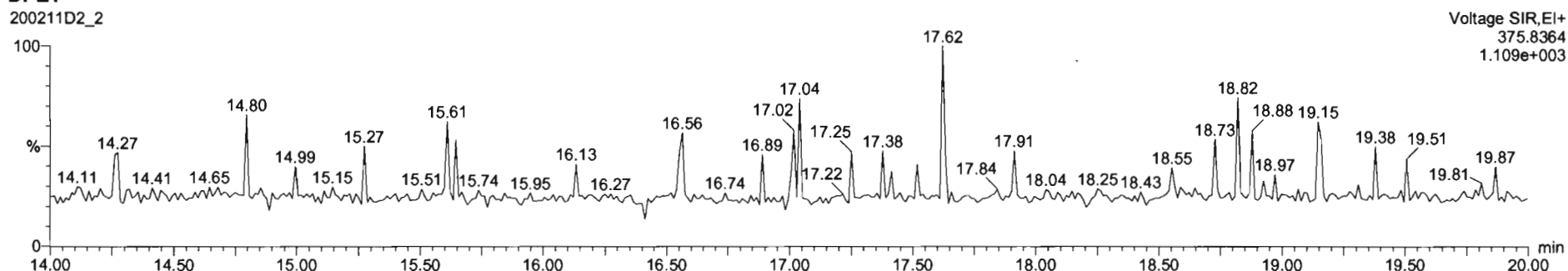
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

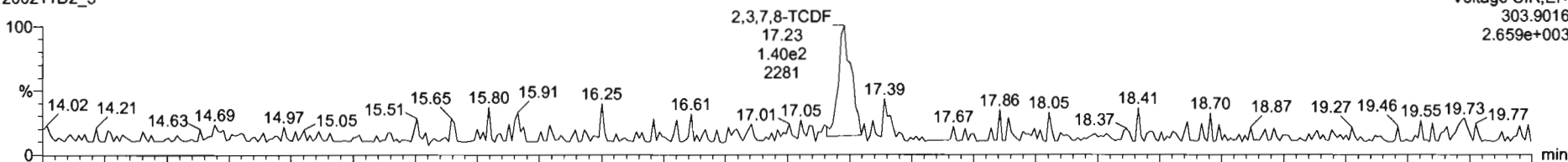
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvfg7-2-11-20.cdb 12 Feb 2020 10:17:56

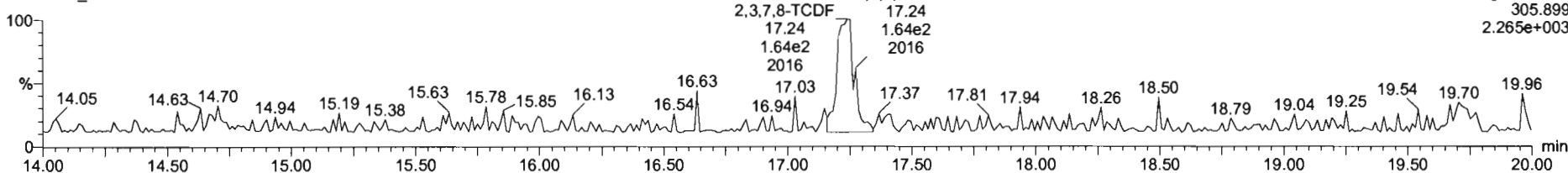
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2,3,7,8-TCDF

200211D2_3

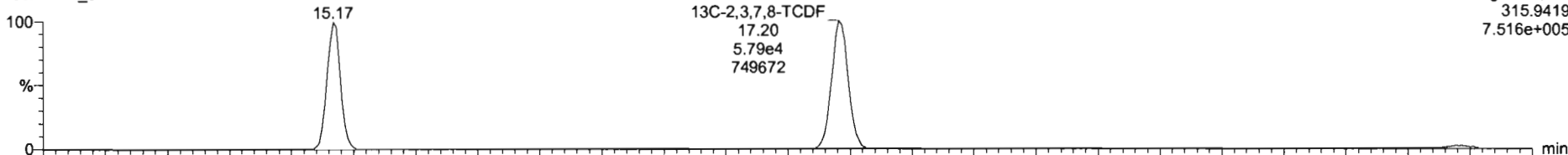


200211D2_3

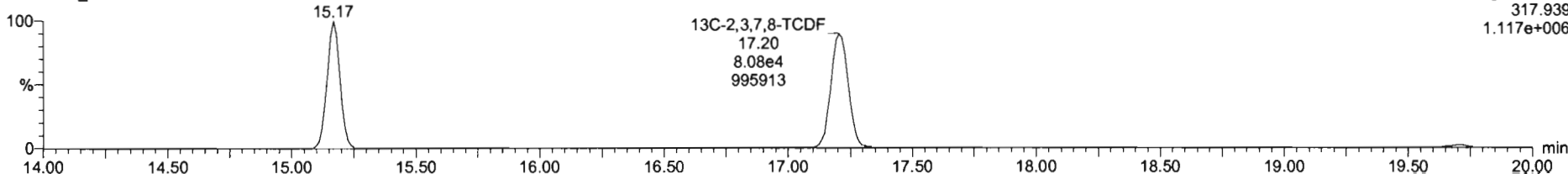


13C-2,3,7,8-TCDF

200211D2_3



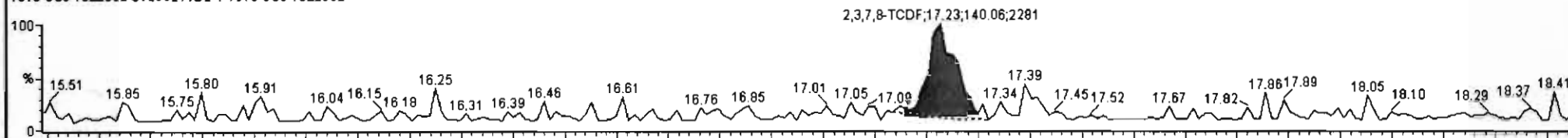
200211D2_3



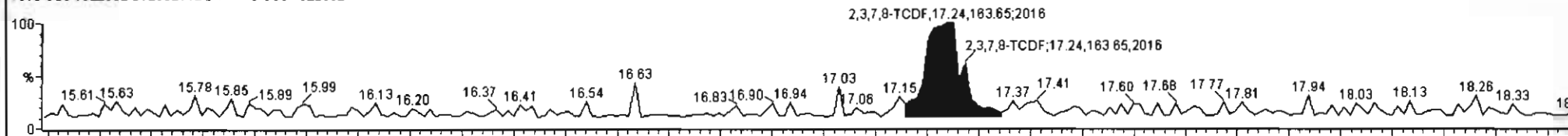
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	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							

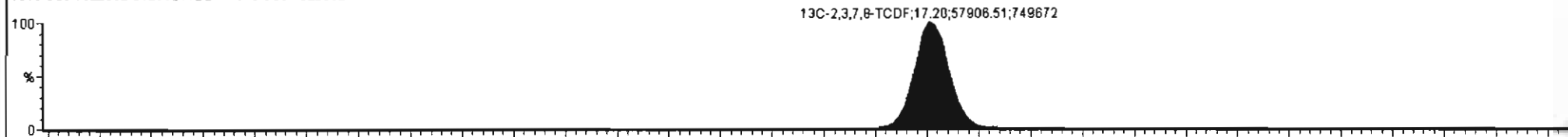
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



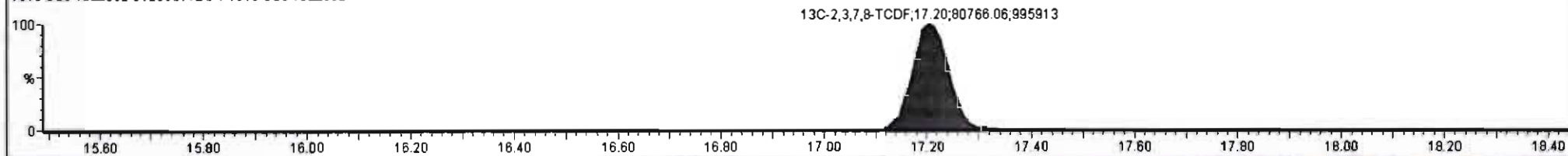
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



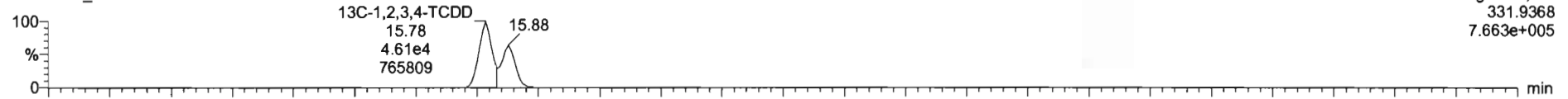
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

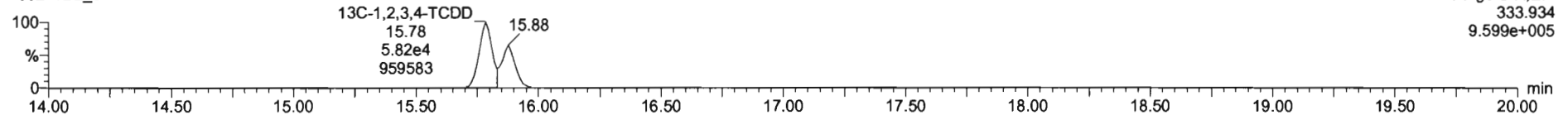
Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200211D2_3

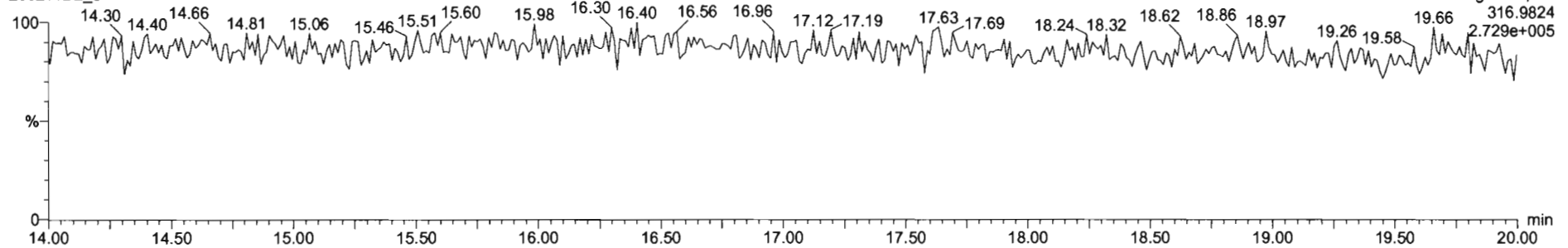


200211D2_3



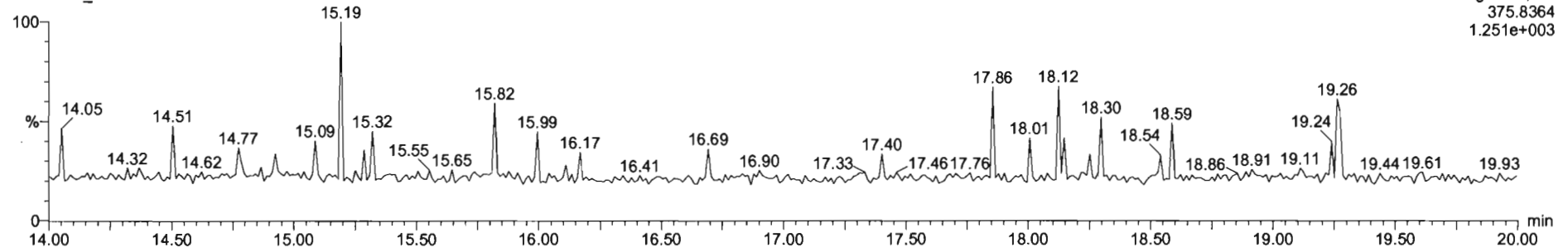
PFK1

200211D2_3



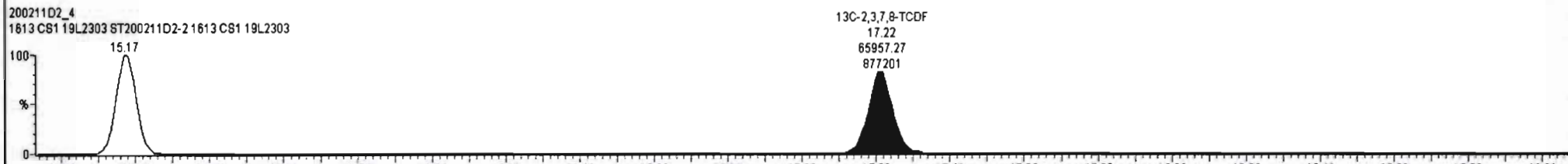
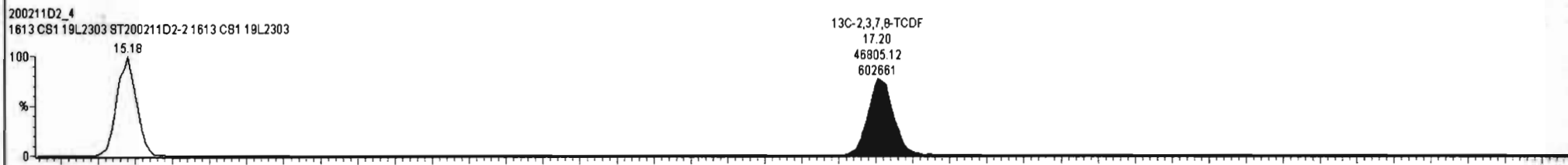
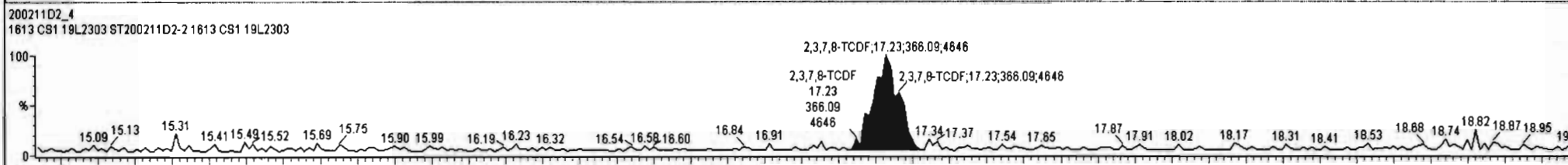
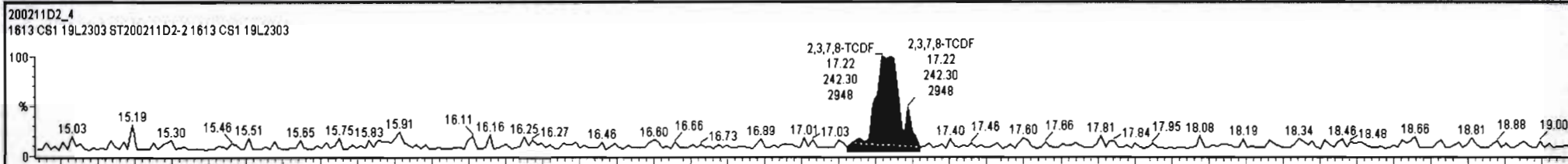
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.09e2	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								



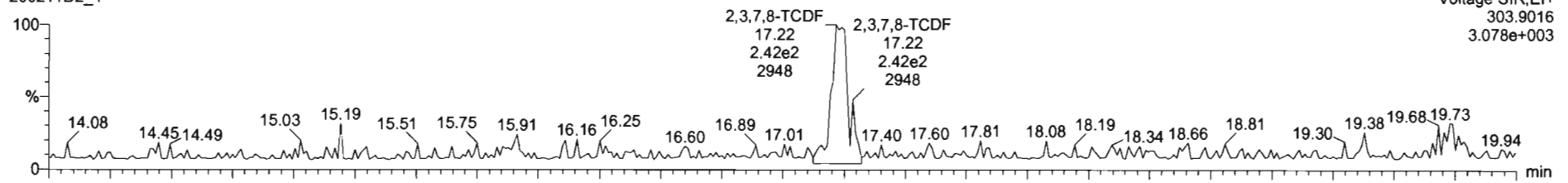
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

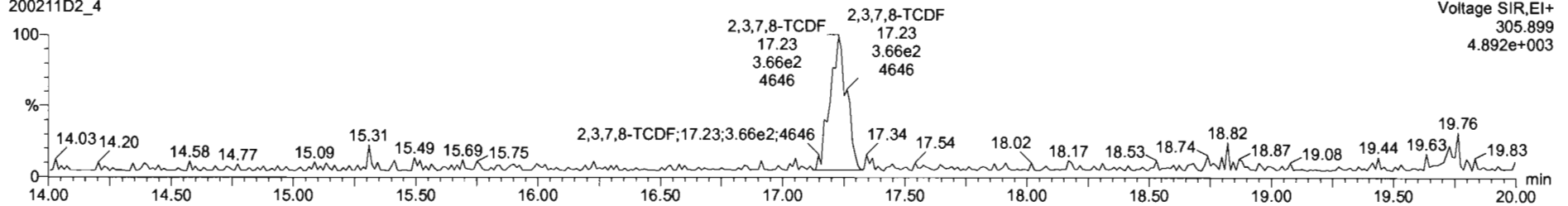
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200211D2_4

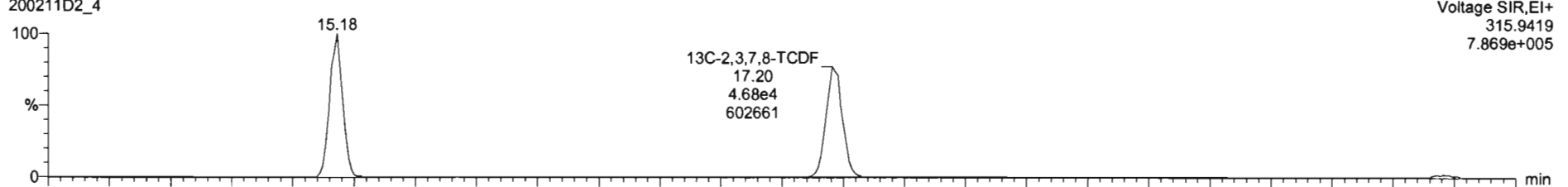


200211D2_4

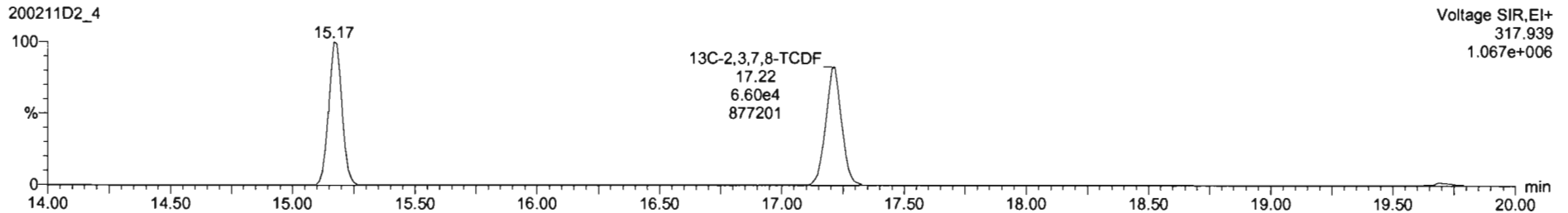


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



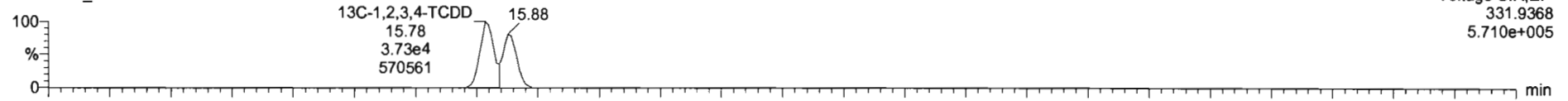
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

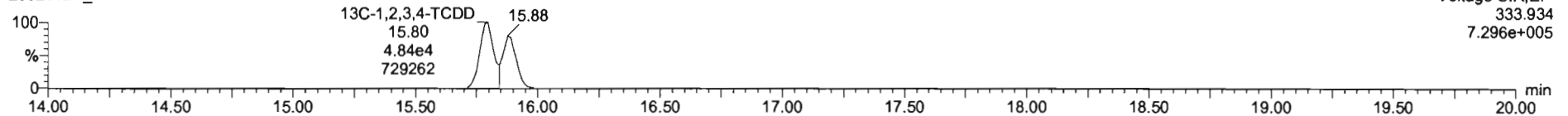
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2_4

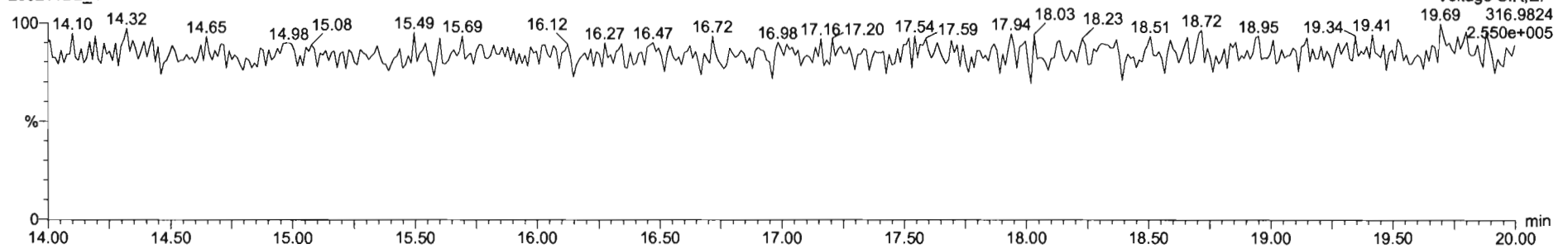


200211D2_4



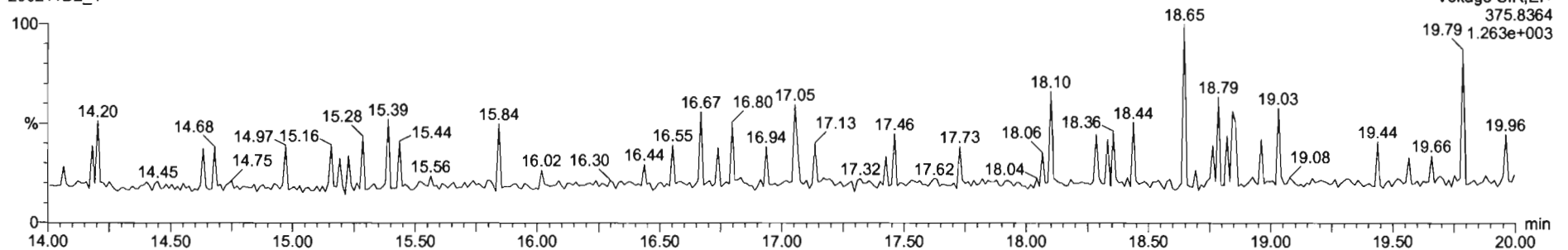
PFK1

200211D2_4



DPE1

200211D2_4



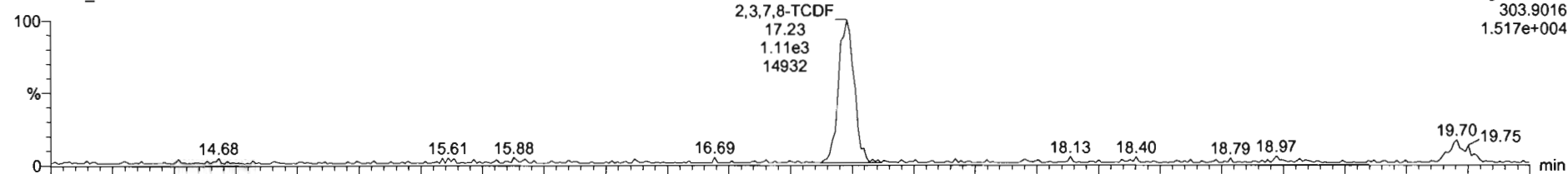
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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

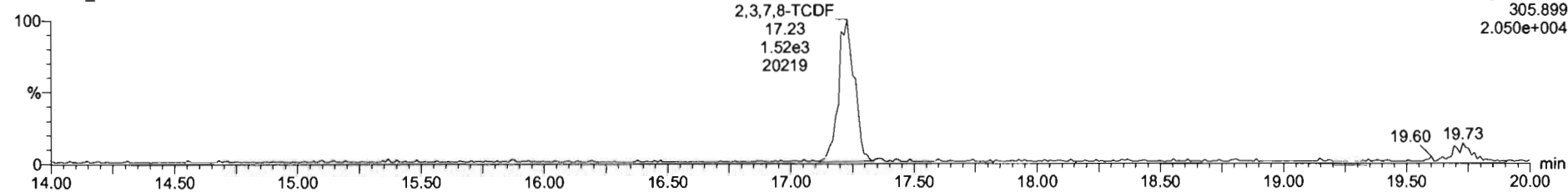
2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
303.9016
1.517e+004

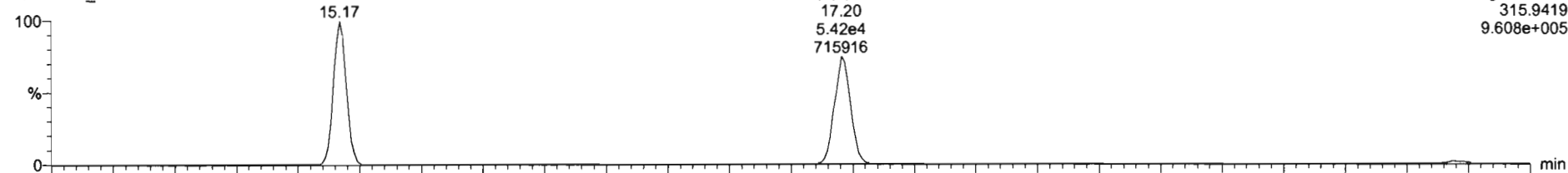
200211D2_5



Voltage SIR,EI+
305.899
2.050e+004

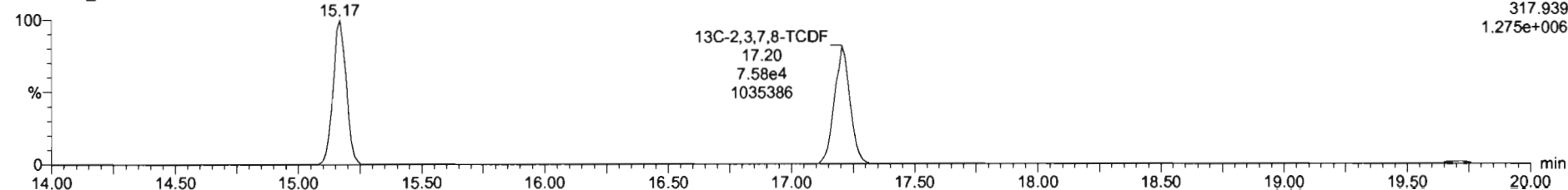
13C-2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
315.9419
9.608e+005

200211D2_5



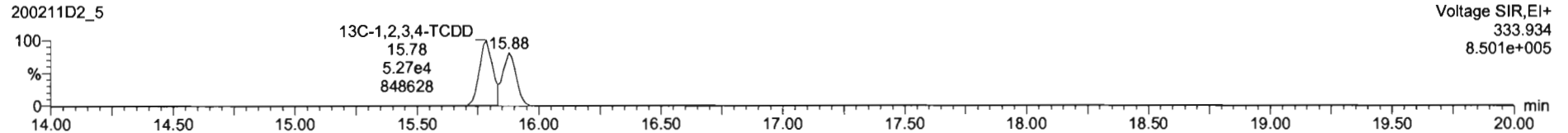
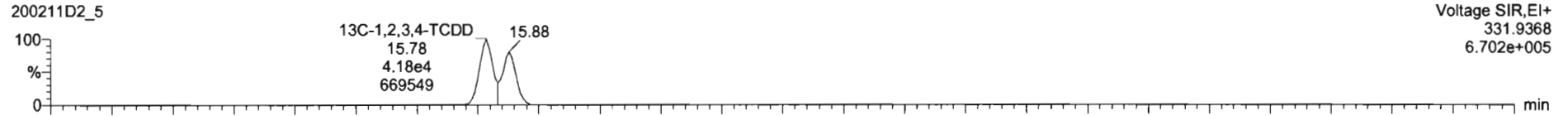
Voltage SIR,EI+
317.939
1.275e+006

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

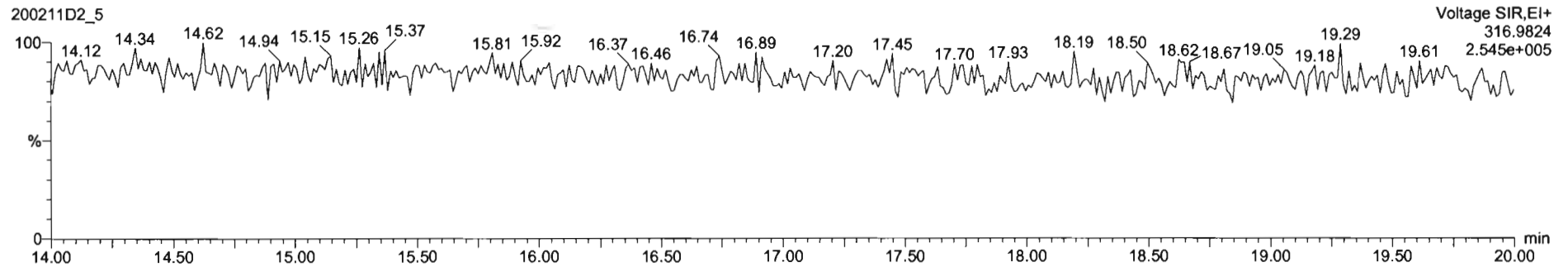
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

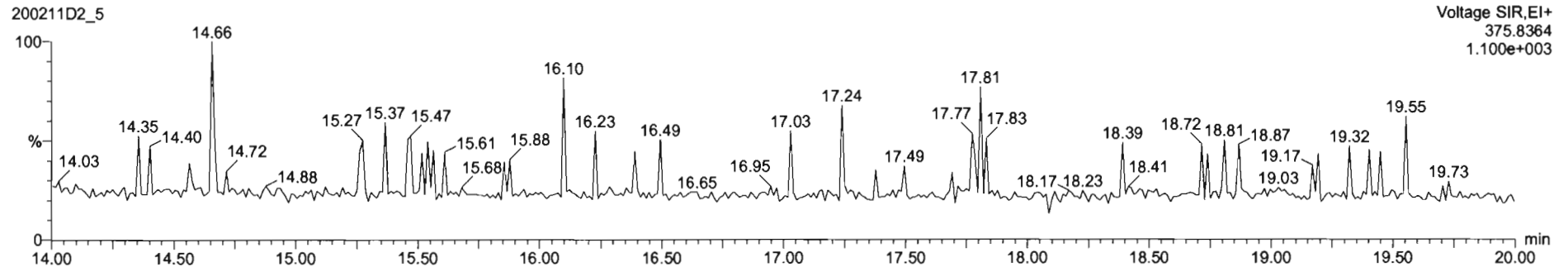
13C-1,2,3,4-TCDD



PFK1



DPE1



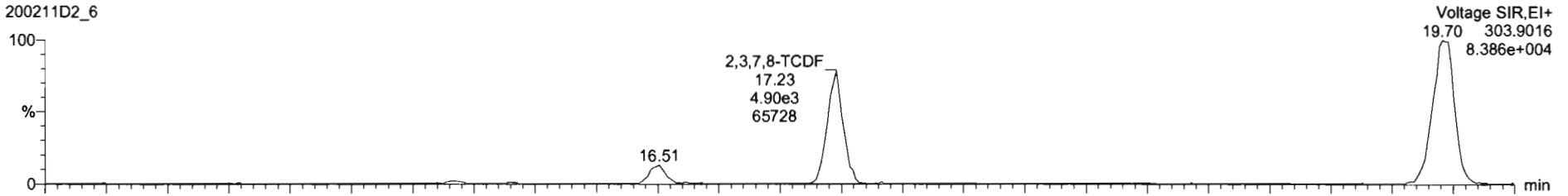
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

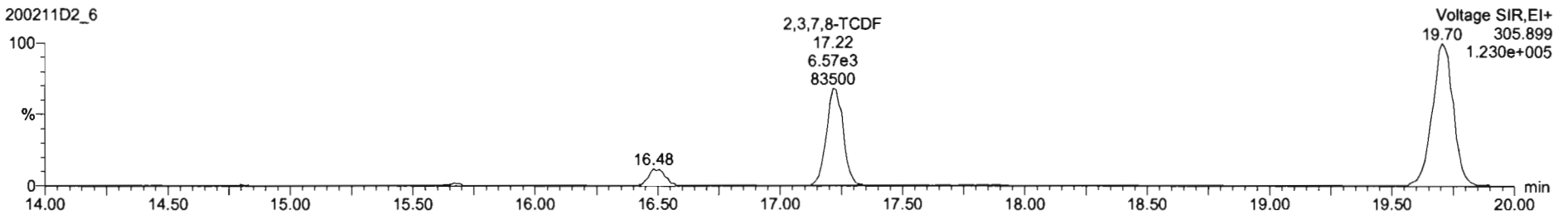
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

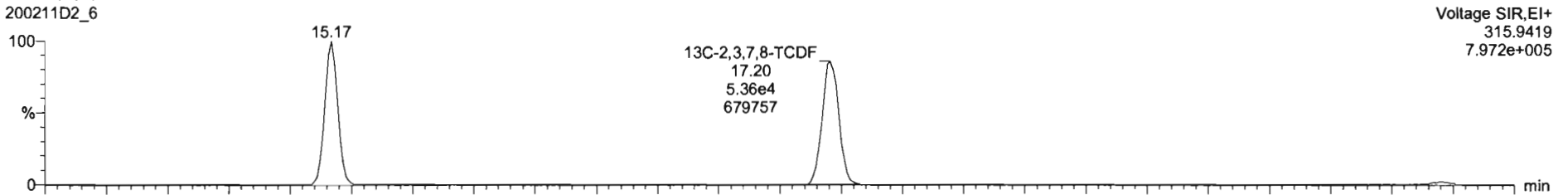


200211D2_6

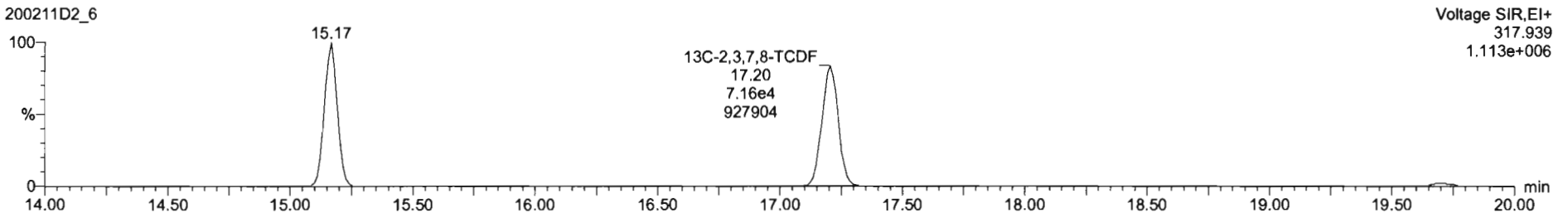


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



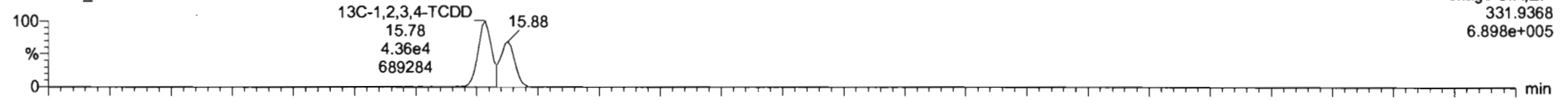
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

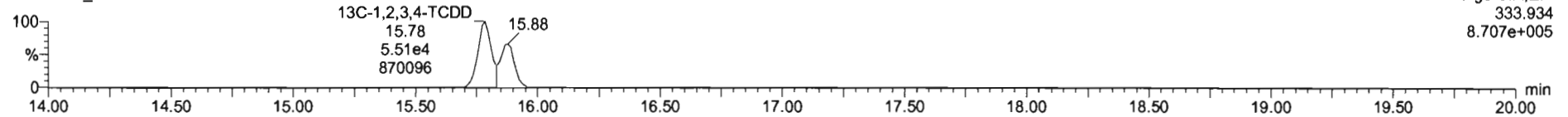
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200211D2_6

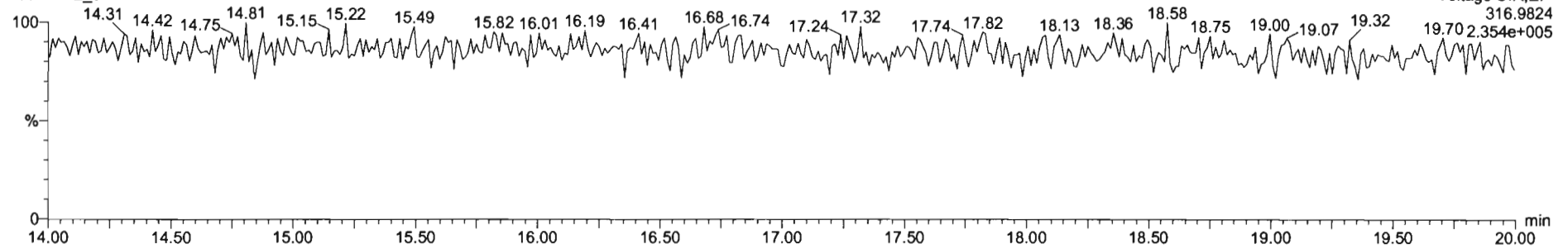


200211D2_6



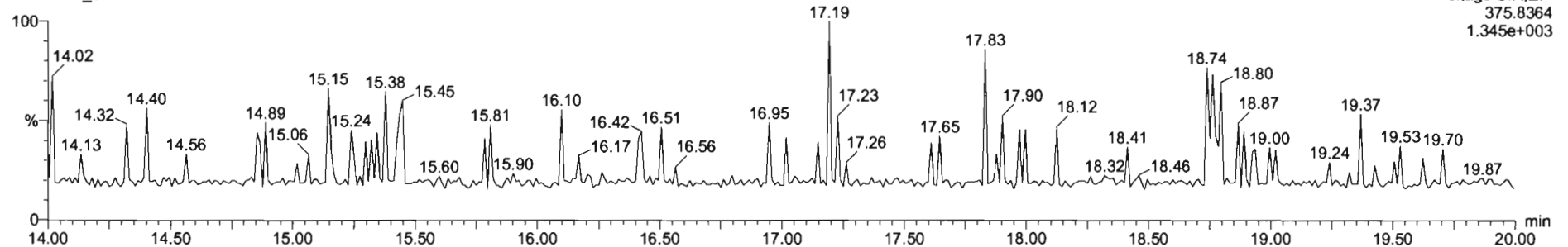
PFK1

200211D2_6



DPE1

200211D2_6



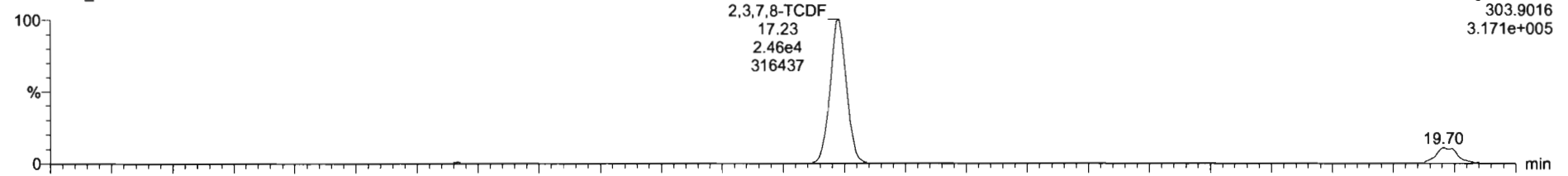
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

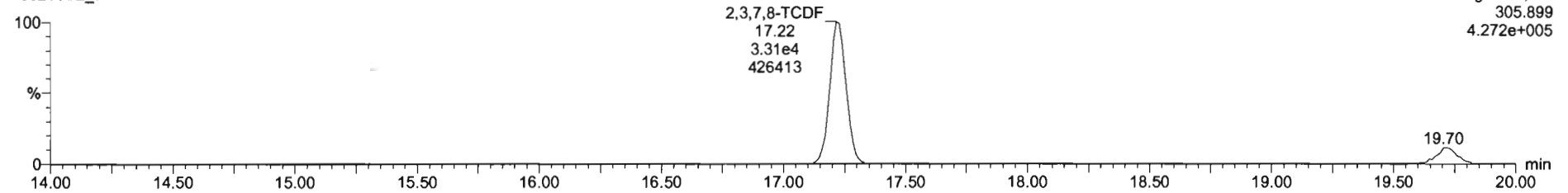
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

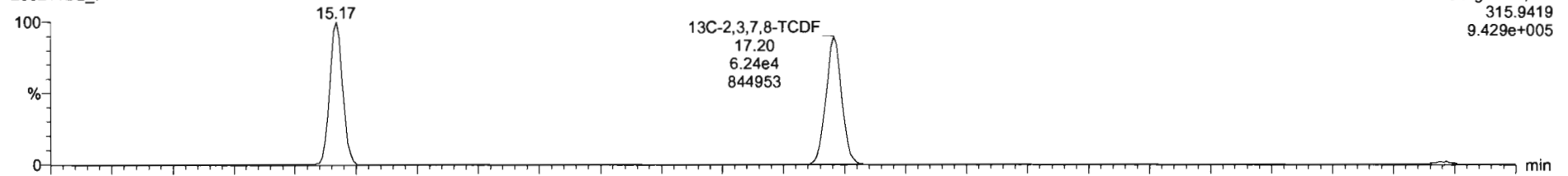


200211D2_7

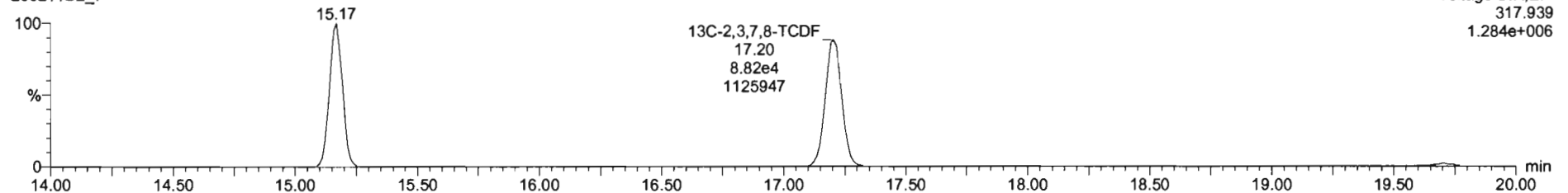


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



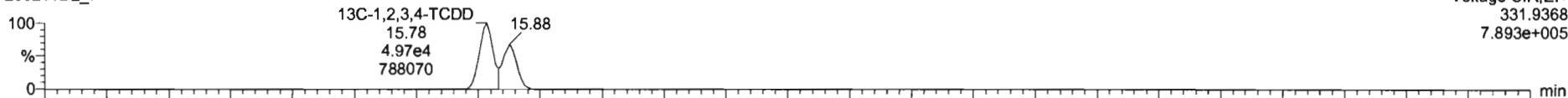
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

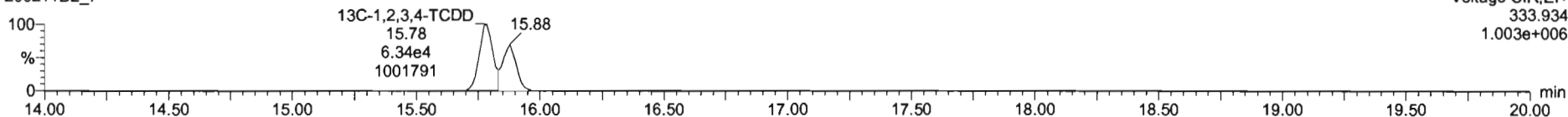
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2_7

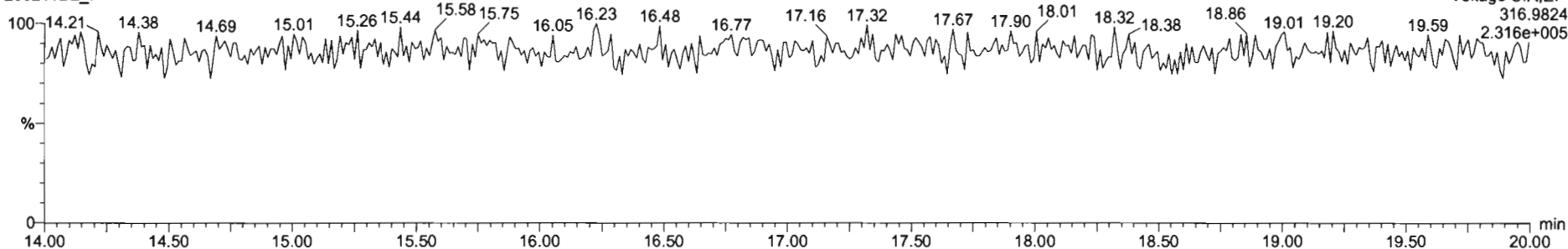


200211D2_7



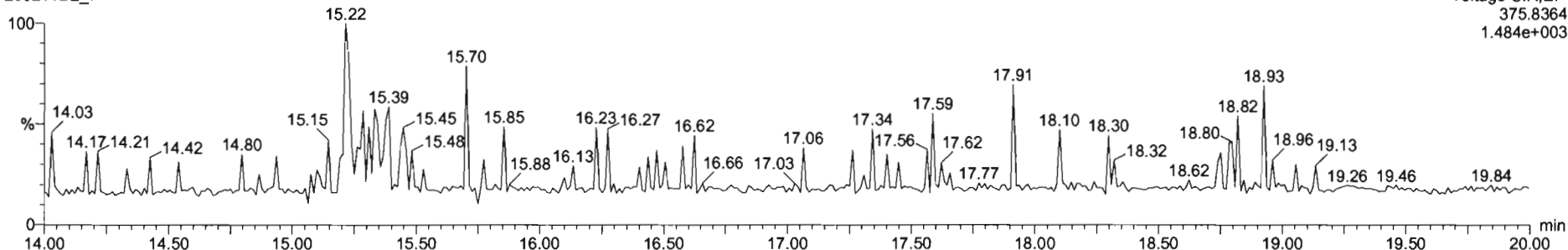
PFK1

200211D2_7



DPE1

200211D2_7



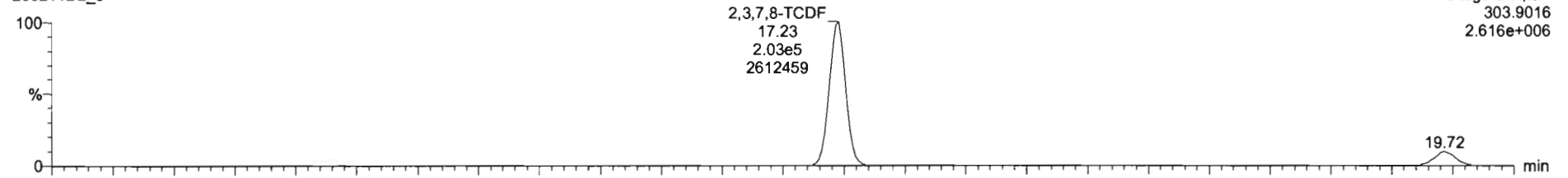
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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

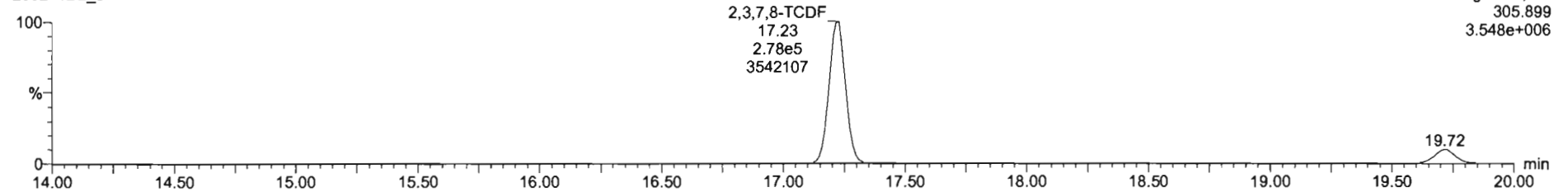
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

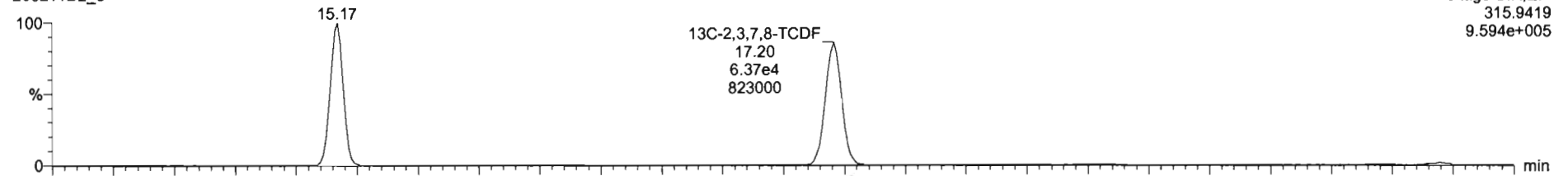
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

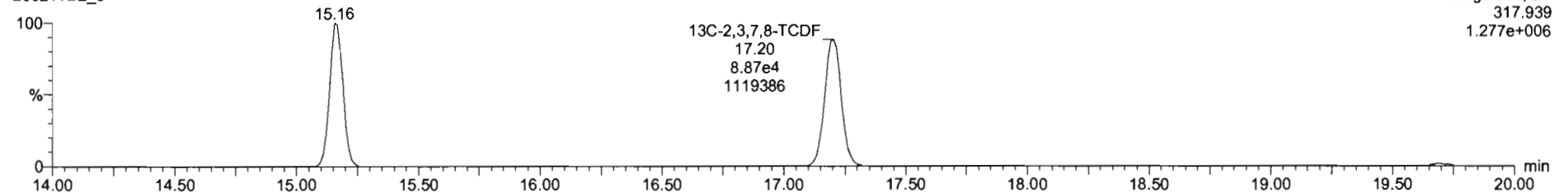
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

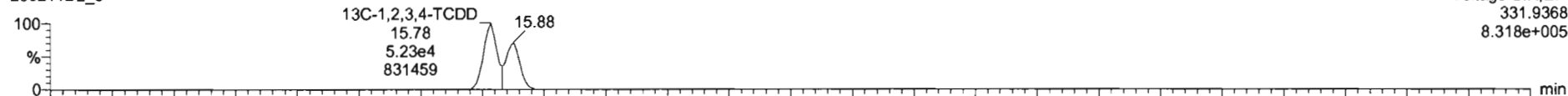
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

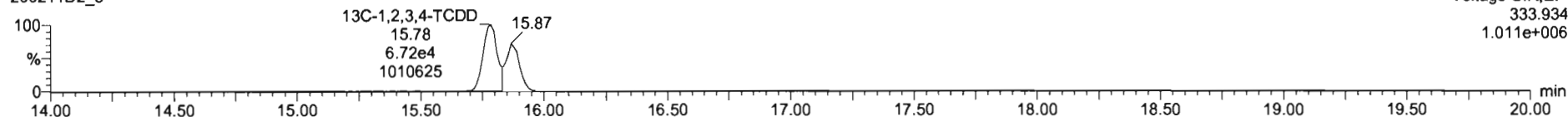
Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2_8

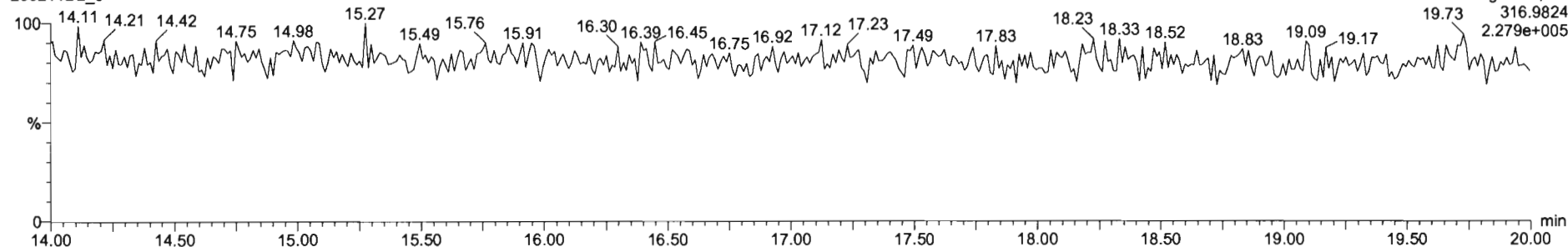


200211D2_8



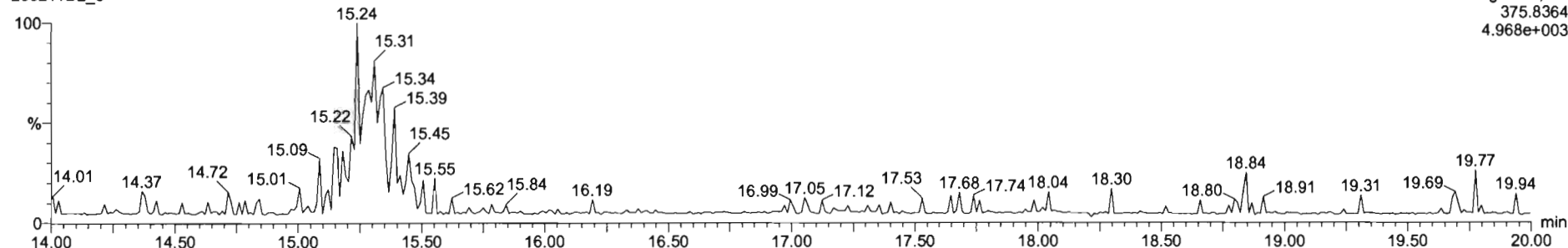
PFK1

200211D2_8

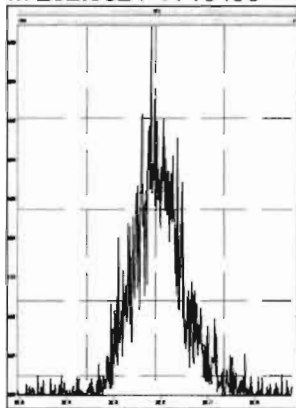


DPE1

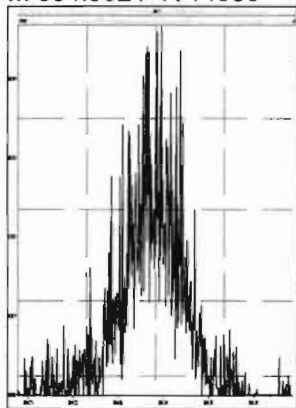
200211D2_8



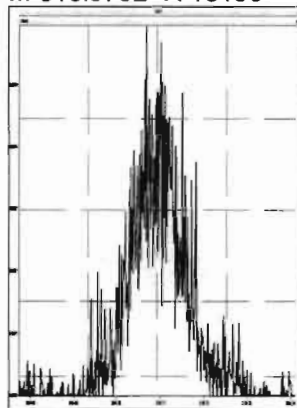
M 292.9824 R 13493



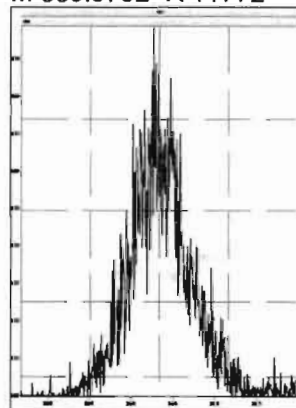
M 304.9824 R 14983



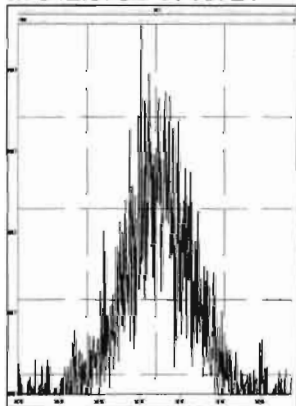
M 318.9792 R 15196



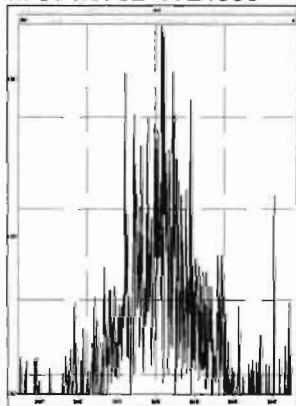
M 330.9792 R 11772



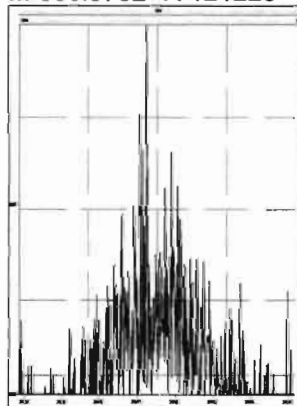
M 342.9792 R 13721



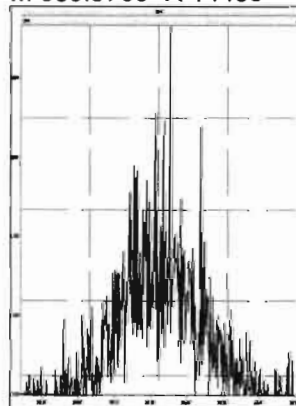
M 354.9792 R 24553



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

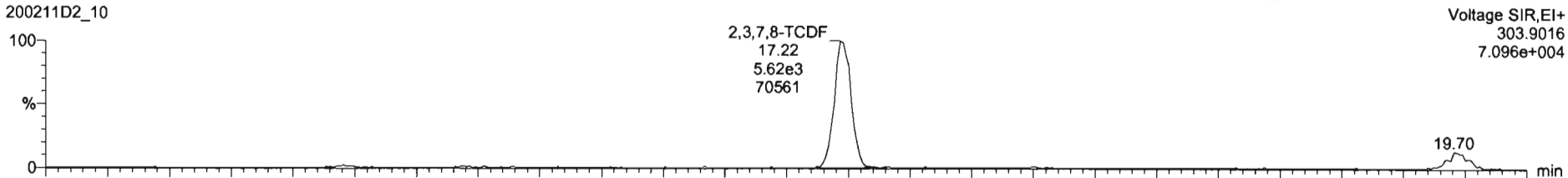
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

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

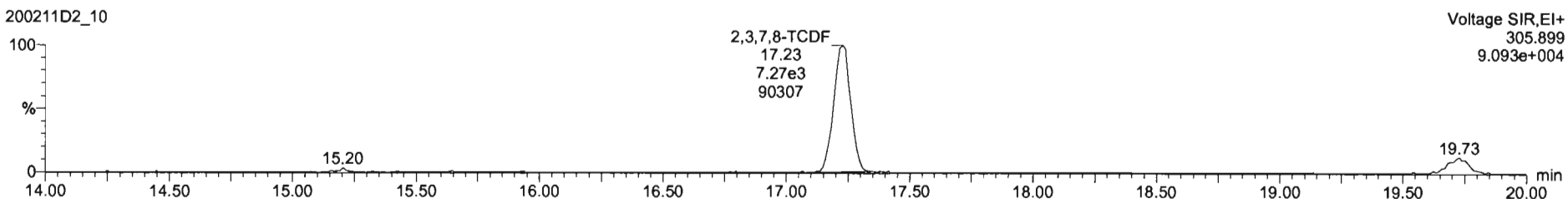
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

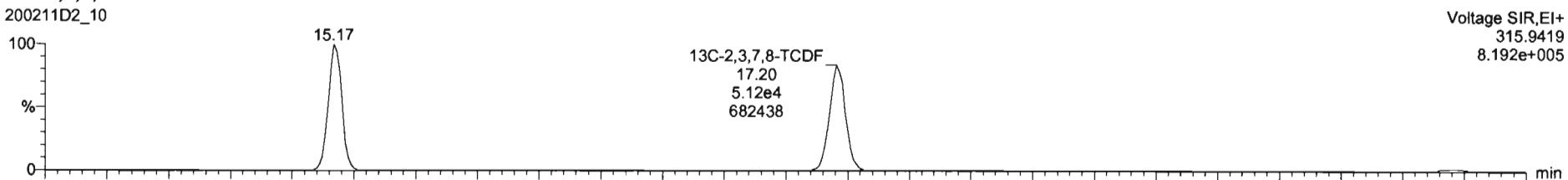


200211D2_10

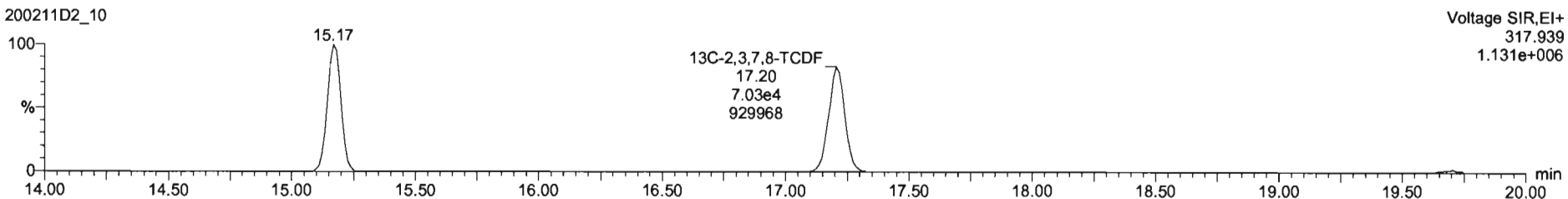


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



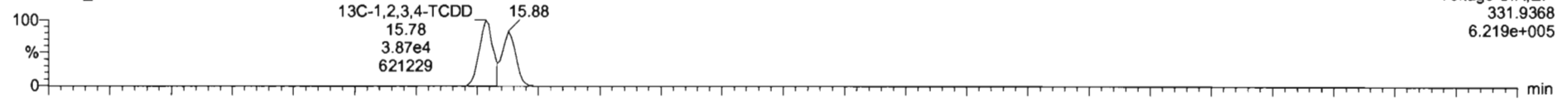
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

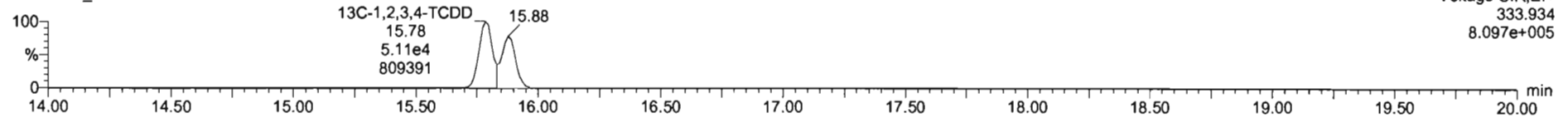
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

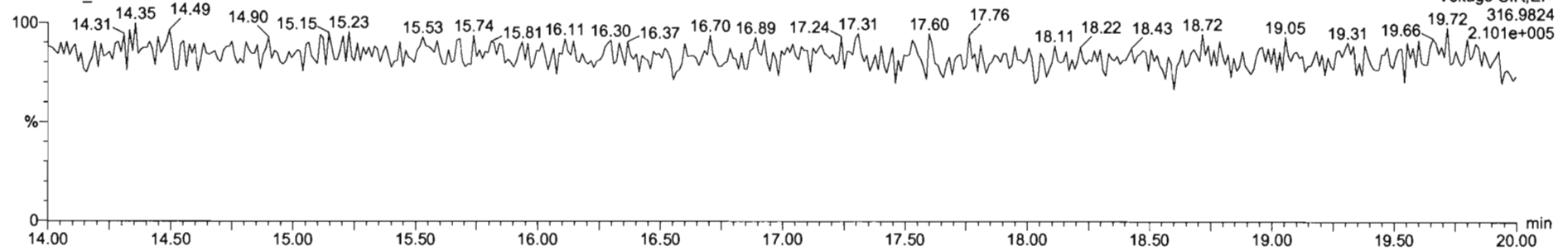


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

