



June 10, 2021

Vista Work Order No. 2105020

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

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on May 04, 2021 under your Project Name 'GascoSiltronic: US Moorings'.

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. 2105020

Case Narrative

Sample Condition on Receipt:

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

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-DIOXIN GC column.

Holding Times

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

Quality Control

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank. The OPR recoveries were within the method acceptance criteria.

As requested, a duplicate was performed on sample "USMPDI-020SC-A-15-16-210429". The RPDs out of the acceptance criteria are reported in bold font.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2105020-01	USMPDI-017SC-A-00-01-210429	29-Apr-21 09:45	04-May-21 09:40	Amber Glass, 120 mL
2105020-02	USMPDI-017SC-A-02-03-210429	29-Apr-21 09:45	04-May-21 09:40	Amber Glass, 120 mL
2105020-03	USMPDI-017SC-A-12-13-210429	29-Apr-21 09:45	04-May-21 09:40	Amber Glass, 120 mL
2105020-04	USMPDI-017SC-A-13-14-210429	29-Apr-21 09:45	04-May-21 09:40	Amber Glass, 120 mL
2105020-05	USMPDI-017SC-A-14-15-210429	29-Apr-21 09:45	04-May-21 09:40	Amber Glass, 120 mL
2105020-06	USMPDI-017SC-A-15-16-210429	29-Apr-21 09:45	04-May-21 09:40	Amber Glass, 120 mL
2105020-07	USMPDI-020SC-A-15-16-210429	DUP29-Apr-21 13:30	04-May-21 09:40	Amber Glass, 120 mL Amber Glass, 120 mL
2105020-08	USMPDI-020SC-A-16-17.4-210429	29-Apr-21 13:30	04-May-21 09:40	Amber Glass, 120 mL
2105020-09	USMPDI-1020SC-A-16-17.4-210429	29-Apr-21 13:30	04-May-21 09:40	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13		Lab Sample: B1E0138-BLK1 Date Analyzed: 24-May-21 22:16 Column: ZB-DIOXIN					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0844			IS 13C-2,3,7,8-TCDD	59.3	25 - 164		
1,2,3,7,8-PeCDD	ND	0.245			13C-1,2,3,7,8-PeCDD	59.1	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.189			13C-1,2,3,4,7,8-HxCDD	52.8	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.207			13C-1,2,3,6,7,8-HxCDD	54.3	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.222			13C-1,2,3,7,8,9-HxCDD	51.6	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.230			13C-1,2,3,4,6,7,8-HpCDD	53.6	23 - 140		
OCDD	ND	0.491			13C-OCDD	45.7	17 - 157		
2,3,7,8-TCDF	ND	0.0555			13C-2,3,7,8-TCDF	60.0	24 - 169		
1,2,3,7,8-PeCDF	ND	0.157			13C-1,2,3,7,8-PeCDF	55.8	24 - 185		
2,3,4,7,8-PeCDF	ND	0.129			13C-2,3,4,7,8-PeCDF	59.7	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.102			13C-1,2,3,4,7,8-HxCDF	56.7	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.102			13C-1,2,3,6,7,8-HxCDF	57.6	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.115			13C-2,3,4,6,7,8-HxCDF	56.8	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.162			13C-1,2,3,7,8,9-HxCDF	53.8	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.133			13C-1,2,3,4,6,7,8-HpCDF	52.4	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.164			13C-1,2,3,4,7,8,9-HpCDF	50.8	26 - 138		
OCDF	ND	0.374			13C-OCDF	48.2	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	69.8	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.0844							
Total PeCDD	ND	0.245							
Total HxCDD	ND	0.222							
Total HpCDD	ND	0.230							
Total TCDF	ND		0.0570						
Total PeCDF	ND	0.157							
Total HxCDF	ND	0.162							
Total HpCDF	ND	0.164							

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: B1E0138	Lab Sample: B1E0138-BS1					
Sample Size: 10.0 g	Date Extracted: 17-May-2021 7:13	Date Analyzed: 24-May-21 20:43	Column: ZB-DIOXIN				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	24.6	20.0	123	67 - 158	IS 13C-2,3,7,8-TCDD	40.8	20 - 175
1,2,3,7,8-PeCDD	122	100	122	70 - 142	13C-1,2,3,7,8-PeCDD	47.8	21 - 227
1,2,3,4,7,8-HxCDD	117	100	117	70 - 164	13C-1,2,3,4,7,8-HxCDD	47.0	21 - 193
1,2,3,6,7,8-HxCDD	122	100	122	76 - 134	13C-1,2,3,6,7,8-HxCDD	47.3	25 - 163
1,2,3,7,8,9-HxCDD	119	100	119	64 - 162	13C-1,2,3,7,8,9-HxCDD	51.1	21 - 193
1,2,3,4,6,7,8-HpCDD	116	100	116	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	50.8	26 - 166
OCDD	229	200	115	78 - 144	13C-OCDD	46.6	13 - 199
2,3,7,8-TCDF	23.8	20.0	119	75 - 158	13C-2,3,7,8-TCDF	39.1	22 - 152
1,2,3,7,8-PeCDF	127	100	127	80 - 134	13C-1,2,3,7,8-PeCDF	44.2	21 - 192
2,3,4,7,8-PeCDF	126	100	126	68 - 160	13C-2,3,4,7,8-PeCDF	44.3	13 - 328
1,2,3,4,7,8-HxCDF	118	100	118	72 - 134	13C-1,2,3,4,7,8-HxCDF	47.8	19 - 202
1,2,3,6,7,8-HxCDF	114	100	114	84 - 130	13C-1,2,3,6,7,8-HxCDF	49.4	21 - 159
2,3,4,6,7,8-HxCDF	119	100	119	70 - 156	13C-2,3,4,6,7,8-HxCDF	50.0	22 - 176
1,2,3,7,8,9-HxCDF	114	100	114	78 - 130	13C-1,2,3,7,8,9-HxCDF	47.9	17 - 205
1,2,3,4,6,7,8-HpCDF	121	100	121	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	49.2	21 - 158
1,2,3,4,7,8,9-HpCDF	120	100	120	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	48.7	20 - 186
OCDF	231	200	115	63 - 170	13C-OCDF	45.7	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	45.8	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: USMPDI-017SC-A-00-01-210429 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105020-01 Date Received: 04-May-2021 9:40
Project: GascoSiltronic: US Moorings	Sample Size: 19.5 g	QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13
Date Collected: 29-Apr-2021 9:45	% Solids: 51.6	Date Analyzed: 24-May-21 23:03 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.168		IS 13C-2,3,7,8-TCDD	67.9	25 - 164	
1,2,3,7,8-PeCDD	ND		0.135		13C-1,2,3,7,8-PeCDD	80.1	25 - 181	
1,2,3,4,7,8-HxCDD	0.370			J	13C-1,2,3,4,7,8-HxCDD	72.5	32 - 141	
1,2,3,6,7,8-HxCDD	1.39			J	13C-1,2,3,6,7,8-HxCDD	71.8	28 - 130	
1,2,3,7,8,9-HxCDD	0.725			J	13C-1,2,3,7,8,9-HxCDD	77.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	29.1				13C-1,2,3,4,6,7,8-HpCDD	79.8	23 - 140	
OCDD	311				13C-OCDD	74.5	17 - 157	
2,3,7,8-TCDF	2.46				13C-2,3,7,8-TCDF	60.2	24 - 169	
1,2,3,7,8-PeCDF	2.80				13C-1,2,3,7,8-PeCDF	68.5	24 - 185	
2,3,4,7,8-PeCDF	1.41			J	13C-2,3,4,7,8-PeCDF	70.5	21 - 178	
1,2,3,4,7,8-HxCDF	4.79				13C-1,2,3,4,7,8-HxCDF	74.8	26 - 152	
1,2,3,6,7,8-HxCDF	1.31			J	13C-1,2,3,6,7,8-HxCDF	77.3	26 - 123	
2,3,4,6,7,8-HxCDF	0.240			J	13C-2,3,4,6,7,8-HxCDF	78.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.295			J	13C-1,2,3,7,8,9-HxCDF	76.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	6.67				13C-1,2,3,4,6,7,8-HpCDF	77.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.07			J	13C-1,2,3,4,7,8,9-HpCDF	79.0	26 - 138	
OCDF	16.3				13C-OCDF	78.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	73.8	35 - 197	

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

TEQMinWHO2005Dioxin 2.13

TOTALS		
Total TCDD	1.08	1.52
Total PeCDD	1.07	1.85
Total HxCDD	6.93	11.8
Total HpCDD	69.1	
Total TCDF	6.80	8.12
Total PeCDF	9.41	9.84
Total HxCDF	15.1	
Total HpCDF	19.8	

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: USMPDI-017SC-A-02-03-210429 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105020-02 Date Received: 04-May-2021 9:40
Project: GascoSiltronic: US Moorings	Sample Size: 17.5 g	QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13
Date Collected: 29-Apr-2021 9:45	% Solids: 57.4	Date Analyzed: 24-May-21 23:50 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.206		IS 13C-2,3,7,8-TCDD	71.6	25 - 164	
1,2,3,7,8-PeCDD	ND		0.367		13C-1,2,3,7,8-PeCDD	80.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.539			13C-1,2,3,4,7,8-HxCDD	74.1	32 - 141	
1,2,3,6,7,8-HxCDD	2.60				13C-1,2,3,6,7,8-HxCDD	77.0	28 - 130	
1,2,3,7,8,9-HxCDD	1.20			J	13C-1,2,3,7,8,9-HxCDD	81.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	47.8				13C-1,2,3,4,6,7,8-HpCDD	83.6	23 - 140	
OCDD	605				13C-OCDD	77.2	17 - 157	
2,3,7,8-TCDF	7.51				13C-2,3,7,8-TCDF	74.8	24 - 169	
1,2,3,7,8-PeCDF	13.9				13C-1,2,3,7,8-PeCDF	83.1	24 - 185	
2,3,4,7,8-PeCDF	7.16				13C-2,3,4,7,8-PeCDF	82.3	21 - 178	
1,2,3,4,7,8-HxCDF	28.9				13C-1,2,3,4,7,8-HxCDF	81.8	26 - 152	
1,2,3,6,7,8-HxCDF	8.44				13C-1,2,3,6,7,8-HxCDF	85.5	26 - 123	
2,3,4,6,7,8-HxCDF	1.05			J	13C-2,3,4,6,7,8-HxCDF	86.2	28 - 136	
1,2,3,7,8,9-HxCDF	1.59			J	13C-1,2,3,7,8,9-HxCDF	81.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	23.8				13C-1,2,3,4,6,7,8-HpCDF	85.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	8.08				13C-1,2,3,4,7,8,9-HpCDF	83.9	26 - 138	
OCDF	48.7				13C-OCDF	78.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	78.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 8.69

TOTALS			
Total TCDD	0.755		1.11
Total PeCDD	1.53		2.89
Total HxCDD	22.1		
Total HpCDD	110		
Total TCDF	23.9		27.8
Total PeCDF	40.8		41.5
Total HxCDF	57.9		59.7
Total HpCDF	56.2		

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: USMPDI-017SC-A-12-13-210429 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105020-03 Date Received: 04-May-2021 9:40
Project: GascoSiltronic: US Moorings	Sample Size: 16.0 g	QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13
Date Collected: 29-Apr-2021 9:45	% Solids: 63.3	Date Analyzed: 25-May-21 00:36 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.293		IS 13C-2,3,7,8-TCDD	84.9	25 - 164	
1,2,3,7,8-PeCDD	ND		0.678		13C-1,2,3,7,8-PeCDD	86.9	25 - 181	
1,2,3,4,7,8-HxCDD	0.473			J	13C-1,2,3,4,7,8-HxCDD	73.6	32 - 141	
1,2,3,6,7,8-HxCDD	4.99				13C-1,2,3,6,7,8-HxCDD	73.3	28 - 130	
1,2,3,7,8,9-HxCDD	1.47			J	13C-1,2,3,7,8,9-HxCDD	74.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	240				13C-1,2,3,4,6,7,8-HpCDD	71.0	23 - 140	
OCDD	2510				13C-OCDD	42.5	17 - 157	
2,3,7,8-TCDF	6.61				13C-2,3,7,8-TCDF	80.6	24 - 169	
1,2,3,7,8-PeCDF	8.02				13C-1,2,3,7,8-PeCDF	82.3	24 - 185	
2,3,4,7,8-PeCDF	10.5				13C-2,3,4,7,8-PeCDF	83.0	21 - 178	
1,2,3,4,7,8-HxCDF	10.7				13C-1,2,3,4,7,8-HxCDF	83.1	26 - 152	
1,2,3,6,7,8-HxCDF	4.35				13C-1,2,3,6,7,8-HxCDF	83.2	26 - 123	
2,3,4,6,7,8-HxCDF	2.93				13C-2,3,4,6,7,8-HxCDF	78.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.413			J	13C-1,2,3,7,8,9-HxCDF	81.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	102				13C-1,2,3,4,6,7,8-HpCDF	73.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.54				13C-1,2,3,4,7,8,9-HpCDF	77.4	26 - 138	
OCDF	71.1				13C-OCDF	58.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.8	35 - 197	

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

TEQMinWHO2005Dioxin 10.8

TOTALS		
Total TCDD	0.986	4.47
Total PeCDD	5.90	12.9
Total HxCDD	67.6	
Total HpCDD	581	
Total TCDF	47.8	51.4
Total PeCDF	84.7	85.6
Total HxCDF	111	
Total HpCDF	226	

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: USMPDI-017SC-A-13-14-210429 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105020-04 Date Received: 04-May-2021 9:40
Project: GascoSiltronic: US Moorings	Sample Size: 15.0 g	QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13
Date Collected: 29-Apr-2021 9:45	% Solids: 67.2	Date Analyzed: 07-Jun-21 17:32 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.158			IS 13C-2,3,7,8-TCDD	94.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.211			13C-1,2,3,7,8-PeCDD	85.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.469			13C-1,2,3,4,7,8-HxCDD	93.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.444			13C-1,2,3,6,7,8-HxCDD	97.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.612			13C-1,2,3,7,8,9-HxCDD	91.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.87				13C-1,2,3,4,6,7,8-HpCDD	87.9	23 - 140	
OCDD	41.5				13C-OCDD	89.8	17 - 157	
2,3,7,8-TCDF	ND	0.157			13C-2,3,7,8-TCDF	85.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.186			13C-1,2,3,7,8-PeCDF	86.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.175			13C-2,3,4,7,8-PeCDF	86.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.186			13C-1,2,3,4,7,8-HxCDF	85.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.192			13C-1,2,3,6,7,8-HxCDF	84.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.197			13C-2,3,4,6,7,8-HxCDF	80.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.184			13C-1,2,3,7,8,9-HxCDF	92.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		1.29		13C-1,2,3,4,6,7,8-HpCDF	79.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.425			13C-1,2,3,4,7,8,9-HpCDF	84.9	26 - 138	
OCDF	ND		0.799		13C-OCDF	80.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	94.6	35 - 197	

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

TEQMinWHO2005Dioxin 0.0512

TOTALS								
Total TCDD	ND	0.158						
Total PeCDD	ND	0.211						
Total HxCDD	ND	0.612						
Total HpCDD	8.47							
Total TCDF	ND	0.157						
Total PeCDF	0.524							
Total HxCDF	1.03							
Total HpCDF	1.36		2.65					

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: USMPDI-017SC-A-14-15-210429 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105020-05 Date Received: 04-May-2021 9:40
Project: GascoSiltronic: US Moorings	Sample Size: 14.5 g	QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13
Date Collected: 29-Apr-2021 9:45	% Solids: 69.3	Date Analyzed: 25-May-21 02:09 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0505			IS 13C-2,3,7,8-TCDD	93.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.101			13C-1,2,3,7,8-PeCDD	85.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.196			13C-1,2,3,4,7,8-HxCDD	72.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.210			13C-1,2,3,6,7,8-HxCDD	75.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.225			13C-1,2,3,7,8,9-HxCDD	72.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.181		13C-1,2,3,4,6,7,8-HpCDD	79.0	23 - 140	
OCDD	2.49			J	13C-OCDD	73.6	17 - 157	
2,3,7,8-TCDF	ND	0.0351			13C-2,3,7,8-TCDF	91.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0533			13C-1,2,3,7,8-PeCDF	84.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0434			13C-2,3,4,7,8-PeCDF	86.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0653			13C-1,2,3,4,7,8-HxCDF	83.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0607			13C-1,2,3,6,7,8-HxCDF	88.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0648			13C-2,3,4,6,7,8-HxCDF	85.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0866			13C-1,2,3,7,8,9-HxCDF	81.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.163			J	13C-1,2,3,4,6,7,8-HpCDF	81.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0944			13C-1,2,3,4,7,8,9-HpCDF	84.5	26 - 138	
OCDF	ND	0.140			13C-OCDF	79.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	107	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.00238

TOTALS								
Total TCDD	ND	0.0505						
Total PeCDD	ND	0.101						
Total HxCDD	ND	0.225						
Total HpCDD	ND		0.450					
Total TCDF	ND	0.0351						
Total PeCDF	ND	0.0533						
Total HxCDF	0.0586		0.169					
Total HpCDF	0.163							

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: USMPDI-017SC-A-15-16-210429 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105020-06 Date Received: 04-May-2021 9:40
Project: GascoSiltronic: US Moorings	Sample Size: 16.0 g	QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13
Date Collected: 29-Apr-2021 9:45	% Solids: 63.1	Date Analyzed: 25-May-21 02:56 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0914			IS 13C-2,3,7,8-TCDD	59.0	25 - 164	
1,2,3,7,8-PeCDD	ND		0.111		13C-1,2,3,7,8-PeCDD	64.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.204			13C-1,2,3,4,7,8-HxCDD	57.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.210			13C-1,2,3,6,7,8-HxCDD	61.3	28 - 130	
1,2,3,7,8,9-HxCDD	0.234			J	13C-1,2,3,7,8,9-HxCDD	64.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.75			J	13C-1,2,3,4,6,7,8-HpCDD	72.4	23 - 140	
OCDD	15.9				13C-OCDD	66.9	17 - 157	
2,3,7,8-TCDF	0.283			J	13C-2,3,7,8-TCDF	55.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.125			13C-1,2,3,7,8-PeCDF	60.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.103			13C-2,3,4,7,8-PeCDF	59.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0795			13C-1,2,3,4,7,8-HxCDF	65.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0633			13C-1,2,3,6,7,8-HxCDF	70.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0802			13C-2,3,4,6,7,8-HxCDF	72.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0960			13C-1,2,3,7,8,9-HxCDF	70.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0844			13C-1,2,3,4,6,7,8-HpCDF	74.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.120			13C-1,2,3,4,7,8,9-HpCDF	73.9	26 - 138	
OCDF	ND	0.132			13C-OCDF	76.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	65.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0740

TOTALS			
Total TCDD	0.506		0.626
Total PeCDD	ND		0.240
Total HxCDD	1.80		
Total HpCDD	4.67		
Total TCDF	1.21		
Total PeCDF	ND	0.125	
Total HxCDF	0.0643		
Total HpCDF	ND	0.120	

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: USMPDI-020SC-A-15-16-210429 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105020-07 Date Received: 04-May-2021 9:40
Project: GascoSiltronic: US Moorings	Sample Size: 16.6 g	QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13
Date Collected: 29-Apr-2021 13:30	% Solids: 61.1	Date Analyzed: 25-May-21 03:42 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.190		IS 13C-2,3,7,8-TCDD	78.9	25 - 164	
1,2,3,7,8-PeCDD	ND		0.380		13C-1,2,3,7,8-PeCDD	86.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.516			J	13C-1,2,3,4,7,8-HxCDD	75.6	32 - 141	
1,2,3,6,7,8-HxCDD	4.31				13C-1,2,3,6,7,8-HxCDD	75.2	28 - 130	
1,2,3,7,8,9-HxCDD	1.51			J	13C-1,2,3,7,8,9-HxCDD	82.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	195				13C-1,2,3,4,6,7,8-HpCDD	94.5	23 - 140	
OCDD	1770				13C-OCDD	82.1	17 - 157	
2,3,7,8-TCDF	19.8				13C-2,3,7,8-TCDF	74.5	24 - 169	
1,2,3,7,8-PeCDF	26.9				13C-1,2,3,7,8-PeCDF	79.4	24 - 185	
2,3,4,7,8-PeCDF	18.4				13C-2,3,4,7,8-PeCDF	79.8	21 - 178	
1,2,3,4,7,8-HxCDF	31.0				13C-1,2,3,4,7,8-HxCDF	86.2	26 - 152	
1,2,3,6,7,8-HxCDF	8.45				13C-1,2,3,6,7,8-HxCDF	88.3	26 - 123	
2,3,4,6,7,8-HxCDF	2.89				13C-2,3,4,6,7,8-HxCDF	89.2	28 - 136	
1,2,3,7,8,9-HxCDF	1.81			J	13C-1,2,3,7,8,9-HxCDF	88.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	28.7				13C-1,2,3,4,6,7,8-HpCDF	88.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	5.77				13C-1,2,3,4,7,8,9-HpCDF	94.0	26 - 138	
OCDF	68.0				13C-OCDF	87.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	80.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 16.2

TOTALS								
Total TCDD	7.25		8.15					
Total PeCDD	5.44		8.97					
Total HxCDD	58.9							
Total HpCDD	448							
Total TCDF	79.5		82.0					
Total PeCDF	109		111	P				
Total HxCDF	82.7		86.4					
Total HpCDF	95.2							

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
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Source Client ID: USMPDI-020SC-A-15-16-210429	QC Batch: B1E0138	Lab Sample: B1E0138-DUP1
Source LabNumber: 2105020-07	Date Extracted: 17-May-2021 7:13	Date Analyzed: 25-May-21 04:29 Column: ZB-DIOXIN
Matrix: Solid		
Sample Size: 16.4 g		

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.289		IS 13C-2,3,7,8-TCDD	92.1	25 - 164	
1,2,3,7,8-PeCDD	ND		0.377		13C-1,2,3,7,8-PeCDD	94.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND		0.602		13C-1,2,3,4,7,8-HxCDD	75.2	32 - 141	
1,2,3,6,7,8-HxCDD	4.76				13C-1,2,3,6,7,8-HxCDD	77.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND		1.41		13C-1,2,3,7,8,9-HxCDD	77.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	254				13C-1,2,3,4,6,7,8-HpCDD	84.4	23 - 140	
OCDD	2300				13C-OCDD	72.5	17 - 157	
2,3,7,8-TCDF	29.0				13C-2,3,7,8-TCDF	91.1	24 - 169	
1,2,3,7,8-PeCDF	37.4				13C-1,2,3,7,8-PeCDF	90.9	24 - 185	
2,3,4,7,8-PeCDF	24.8				13C-2,3,4,7,8-PeCDF	94.5	21 - 178	
1,2,3,4,7,8-HxCDF	54.7				13C-1,2,3,4,7,8-HxCDF	88.3	26 - 152	
1,2,3,6,7,8-HxCDF	13.4				13C-1,2,3,6,7,8-HxCDF	87.8	26 - 123	
2,3,4,6,7,8-HxCDF	2.03			J	13C-2,3,4,6,7,8-HxCDF	86.8	28 - 136	
1,2,3,7,8,9-HxCDF	2.62				13C-1,2,3,7,8,9-HxCDF	91.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	43.0				13C-1,2,3,4,6,7,8-HpCDF	79.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	8.94				13C-1,2,3,4,7,8,9-HpCDF	90.8	26 - 138	
OCDF	97.2				13C-OCDF	76.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

	Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
	TEQMinWHO2005Dioxin 23.0

TOTALS		
Total TCDD	2.30	3.36
Total PeCDD	4.33	10.0
Total HxCDD	61.5	64.6
Total HpCDD	566	
Total TCDF	93.2	96.8
Total PeCDF	137	
Total HxCDF	119	124
Total HpCDF	130	

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: USMPDI-020SC-A-15-16-210429					Duplicate Lab Sample: B1E0138-DUP1				
Source LabNumber: 2105020-07									
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	35	IS 13C-2,3,7,8-TCDD	92.1	78.9	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	35	13C-1,2,3,7,8-PeCDD	94.1	86.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.516	#	35	13C-1,2,3,4,7,8-HxCDD	75.2	75.6	32 - 141	
1,2,3,6,7,8-HxCDD	4.76	4.31	10.0	35	13C-1,2,3,6,7,8-HxCDD	77.9	75.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	1.51	#	35	13C-1,2,3,7,8,9-HxCDD	77.5	82.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	254	195	26.3	35	13C-1,2,3,4,6,7,8-HpCDD	84.4	94.5	23 - 140	
OCDD	2300	1770	26.2	35	13C-OCDD	72.5	82.1	17 - 157	
2,3,7,8-TCDF	29.0	19.8	38.0	35	13C-2,3,7,8-TCDF	91.1	74.5	24 - 169	
1,2,3,7,8-PeCDF	37.4	26.9	32.6	35	13C-1,2,3,7,8-PeCDF	90.9	79.4	24 - 185	
2,3,4,7,8-PeCDF	24.8	18.4	29.6	35	13C-2,3,4,7,8-PeCDF	94.5	79.8	21 - 178	
1,2,3,4,7,8-HxCDF	54.7	31.0	55.3	35	13C-1,2,3,4,7,8-HxCDF	88.3	86.2	26 - 152	
1,2,3,6,7,8-HxCDF	13.4	8.45	45.3	35	13C-1,2,3,6,7,8-HxCDF	87.8	88.3	26 - 123	
2,3,4,6,7,8-HxCDF	2.03	2.89	35.1	35	13C-2,3,4,6,7,8-HxCDF	86.8	89.2	28 - 136	
1,2,3,7,8,9-HxCDF	2.62	1.81	36.7	35	13C-1,2,3,7,8,9-HxCDF	91.6	88.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	43.0	28.7	39.9	35	13C-1,2,3,4,6,7,8-HpCDF	79.3	88.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	8.94	5.77	43.2	35	13C-1,2,3,4,7,8,9-HpCDF	90.8	94.0	26 - 138	
OCDF	97.2	68.0	35.4	35	13C-OCDF	76.3	87.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	80.8	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: USMPDI-020SC-A-16-17.4-210429 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105020-08 Date Received: 04-May-2021 9:40
Project: GascoSiltronic: US Moorings	Sample Size: 17.0 g	QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13
Date Collected: 29-Apr-2021 13:30	% Solids: 59.4	Date Analyzed: 25-May-21 05:16 Column: ZB-DIOXIN

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	59.6	25 - 164	
1,2,3,7,8-PeCDD	ND		0.122		13C-1,2,3,7,8-PeCDD	77.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.419			13C-1,2,3,4,7,8-HxCDD	63.5	32 - 141	
1,2,3,6,7,8-HxCDD	1.18			J	13C-1,2,3,6,7,8-HxCDD	68.8	28 - 130	
1,2,3,7,8,9-HxCDD	0.340			J	13C-1,2,3,7,8,9-HxCDD	71.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	94.6				13C-1,2,3,4,6,7,8-HpCDD	77.2	23 - 140	
OCDD	826				13C-OCDD	69.7	17 - 157	
2,3,7,8-TCDF	2.56				13C-2,3,7,8-TCDF	59.0	24 - 169	
1,2,3,7,8-PeCDF	3.29				13C-1,2,3,7,8-PeCDF	67.9	24 - 185	
2,3,4,7,8-PeCDF	2.32			J	13C-2,3,4,7,8-PeCDF	68.6	21 - 178	
1,2,3,4,7,8-HxCDF	3.77				13C-1,2,3,4,7,8-HxCDF	75.1	26 - 152	
1,2,3,6,7,8-HxCDF	1.14			J	13C-1,2,3,6,7,8-HxCDF	80.1	26 - 123	
2,3,4,6,7,8-HxCDF	0.198			J	13C-2,3,4,6,7,8-HxCDF	77.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.220			J	13C-1,2,3,7,8,9-HxCDF	76.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	5.86				13C-1,2,3,4,6,7,8-HpCDF	77.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.912			J	13C-1,2,3,4,7,8,9-HpCDF	81.7	26 - 138	
OCDF	22.8				13C-OCDF	72.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	67.4	35 - 197	

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

TEQMinWHO2005Dioxin 3.00

TOTALS			
Total TCDD	0.894		
Total PeCDD	0.467	1.20	
Total HxCDD	19.1	19.8	
Total HpCDD	224		
Total TCDF	8.97	9.81	
Total PeCDF	12.5	13.2	
Total HxCDF	11.7		
Total HpCDF	21.8		

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: USMPDI-1020SC-A-16-17.4-210429 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105020-09 Date Received: 04-May-2021 9:40
Project: GascoSiltronic: US Moorings	Sample Size: 16.9 g	QC Batch: B1E0138 Date Extracted: 17-May-2021 7:13
Date Collected: 29-Apr-2021 13:30	% Solids: 59.8	Date Analyzed: 25-May-21 06:02 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0900			IS 13C-2,3,7,8-TCDD	72.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.299			13C-1,2,3,7,8-PeCDD	93.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.356			13C-1,2,3,4,7,8-HxCDD	71.0	32 - 141	
1,2,3,6,7,8-HxCDD	1.23			J	13C-1,2,3,6,7,8-HxCDD	73.9	28 - 130	
1,2,3,7,8,9-HxCDD	0.430			J	13C-1,2,3,7,8,9-HxCDD	75.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	88.5				13C-1,2,3,4,6,7,8-HpCDD	86.5	23 - 140	
OCDD	792				13C-OCDD	73.5	17 - 157	
2,3,7,8-TCDF	3.15				13C-2,3,7,8-TCDF	62.1	24 - 169	
1,2,3,7,8-PeCDF	4.25				13C-1,2,3,7,8-PeCDF	77.9	24 - 185	
2,3,4,7,8-PeCDF	3.12				13C-2,3,4,7,8-PeCDF	79.0	21 - 178	
1,2,3,4,7,8-HxCDF	4.55				13C-1,2,3,4,7,8-HxCDF	81.8	26 - 152	
1,2,3,6,7,8-HxCDF	1.17			J	13C-1,2,3,6,7,8-HxCDF	85.6	26 - 123	
2,3,4,6,7,8-HxCDF	0.472			J	13C-2,3,4,6,7,8-HxCDF	88.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.366			J	13C-1,2,3,7,8,9-HxCDF	85.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	5.65				13C-1,2,3,4,6,7,8-HpCDF	85.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.01			J	13C-1,2,3,4,7,8,9-HpCDF	87.2	26 - 138	
OCDF	21.6				13C-OCDF	75.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	80.6	35 - 197	

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

TEQMinWHO2005Dioxin 3.40

TOTALS			
Total TCDD	0.734		
Total PeCDD	ND	1.34	
Total HxCDD	20.8		
Total HpCDD	212		
Total TCDF	11.5	12.1	
Total PeCDF	14.6	16.2	
Total HxCDF	12.8	13.3	
Total HpCDF	21.6		

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)
MDL	Method Detection Limit
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
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
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	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
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
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	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
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
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	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2105020 5.7°C

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20210429-151203
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-017SC-A-00-01-210429	N	SE	04/29/2021	9:45	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
002	USMPDI-017SC-A-02-03-210429	N	SE	04/29/2021	9:45	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
003	USMPDI-017SC-A-12-13-210429	N	SE	04/29/2021	9:45	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
004	USMPDI-017SC-A-13-14-210429	N	SE	04/29/2021	9:45	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
005	USMPDI-017SC-A-14-15-210429	N	SE	04/29/2021	9:45	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
006	USMPDI-017SC-A-15-16-210429	N	SE	04/29/2021	9:45	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
007	USMPDI-020SC-A-15-16-210429	N	SE	04/29/2021	13:30	2	<input checked="" type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C

Comment:					
Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY


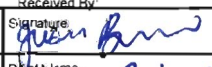
2105020 5.7°C

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20210429-151203
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	USMPDI-020SC-A-15-16-210429	N	SE	04/29/2021	13:30	2	<input checked="" type="checkbox"/>				
								Total solids (VISTA)	SM2540G	30	4°C
008	USMPDI-020SC-A-16-17.4-210429	N	SE	04/29/2021	13:30	1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
009	USMPDI-1020SC-A-16-17.4-210429	FD	SE	04/29/2021		1	<input type="checkbox"/>				
								Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:					
Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature 	Signature 	Signature	Signature	Signature	Signature
Print Name C. OREPO	Print Name JUSTIN BRISENO	Print Name	Print Name	Print Name	Print Name
Company AQ	Company VAL	Company	Company	Company	Company
Date/Time 5/3/21 0830	Date/Time 05-04-21 09:40	Date/Time	Date/Time	Date/Time	Date/Time



Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2105020 TAT 5+2

Samples Arrival:	Date/Time <u>05-04-21 0940</u>		Initials: <u>(P)</u>		Location: <u>WR-2</u>		
					Shelf/Rack: <u>N/A</u>		
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Techni Ice	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None	
Temp °C: <u>5.8</u>	(uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-3</u>		
Temp °C: <u>5.7</u>	(corrected)						

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>—</u> Trk # <u>77361564 7101</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 checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input checked="" type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> 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>05/04/20 10:57</u>		Initials: <u>K</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>D-5</u>
COC Anomaly/Sample Acceptance Form completed?			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2105020

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2105020-01	A USMPDI-017SC-A-00-01-2104 29	<input checked="" type="checkbox"/>	29-Apr-21 09:45 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2105020-02	A USMPDI-017SC-A-02-03-2104 29	<input checked="" type="checkbox"/>	29-Apr-21 09:45 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2105020-03	A USMPDI-017SC-A-12-13-2104 29	<input checked="" type="checkbox"/>	29-Apr-21 09:45 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2105020-04	A USMPDI-017SC-A-13-14-2104 29	<input checked="" type="checkbox"/>	29-Apr-21 09:45 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2105020-05	A USMPDI-017SC-A-14-15-2104 29	<input checked="" type="checkbox"/>	29-Apr-21 09:45 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2105020-06	A USMPDI-017SC-A-15-16-2104 29	<input checked="" type="checkbox"/>	29-Apr-21 09:45 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2105020-07	A USMPDI-020SC-A-15-16-2104 29	<input checked="" type="checkbox"/>	29-Apr-21 13:30 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	DUP
2105020-07	B USMPDI-020SC-A-15-16-2104 29	<input checked="" type="checkbox"/>	29-Apr-21 13:30 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	DUP
2105020-08	A USMPDI-020SC-A-16-17.4-210 429	<input checked="" type="checkbox"/>	29-Apr-21 13:30 <input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2105020-09	A USMPDI-1020SC-A-16-17.4-21 0429	<input checked="" type="checkbox"/>	29-Apr-21 13:30 <input checked="" type="checkbox"/> A	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?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?			<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>		
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>		

Comments: A Sample time was taken from the sample label.

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

Verified by/Date: VS 05/04/21

EXTRACTION INFORMATION

Process Sheet
Workorder: 2105020

Prep Expiration: 2022-04-29
 Client: Anchor QEA, LLC

Workorder Due: 01-Jun-21 00:00

TAT: 28

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

Prep Batch: BIE0138

Prep Data Entered: OF 05/20/21
Date and Initials

Initial Sequence: SI E0050

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Date Received	Location	Comments
2105020-01	A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-017SC-A-00-01-210429	04-May-21 09:40	WR-2 D-5	
2105020-02	↑ ↓	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-017SC-A-02-03-210429	04-May-21 09:40	WR-2 D-5	
2105020-03		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-017SC-A-12-13-210429	04-May-21 09:40	WR-2 D-5	
2105020-04		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-017SC-A-13-14-210429	04-May-21 09:40	WR-2 D-5	
2105020-05		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-017SC-A-14-15-210429	04-May-21 09:40	WR-2 D-5	
2105020-06		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-017SC-A-15-16-210429	04-May-21 09:40	WR-2 D-5	
2105020-07		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-020SC-A-15-16-210429	04-May-21 09:40	WR-2 D-5	DUP
2105020-08		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-020SC-A-16-17.4-210429	04-May-21 09:40	WR-2 D-5	
2105020-09		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-1020SC-A-16-17.4-210429	04-May-21 09:40	WR-2 D-5	

WO Comments: 1613: 10g dw

Pre-Prep Check Out: OF 05/06/21

Prep Check Out: OF 05/17/21

Prep Reconciled Initials/Date: OF 05/06/21

Pre-Prep Check In: OF 05/06/21

Prep Check In: OF 05/17/21

Spike Reconciled Initials/Date: AO 05/17/21

VialBoxID: Yerba Mate

PREPARATION BENCH SHEET

Matrix: Solid

B1E0138

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 17-May-21 07:13

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:		OF 05/19/21	OF 05/19/21	OF 05/19/21	RS CHEM/WIT DATE
					CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	
A1	B1E0138-BLK1	N/A	(10.00)	AO OF 05/17/21	AO OF 05/19/21	AO 05/19/21	AO 05/19/21	AO 05/19/21	AO 05/19/21	OF 05/20/21
A2	B1E0138-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
A3	B1E0138-DUP1 2105020-07	16.36	16.44	↓	↓	NA	black	↓	↓	↓
A4	2105020-01	19.39	19.45	↓	↓	↓	brown	↓	↓	↓
A5	2105020-02	17.43	17.45	↓	↓	↓	↓	↓	↓	↓
A6	2105020-03	15.81	15.97	↓	↓	↓	black	↓	↓	↓
A7	2105020-04	14.89	14.97	↓	↓	↓	brown	↓	↓	↓
A8	2105020-05	14.44	14.50	↓	↓	↓	↓	↓	↓	↓
A9	2105020-06	15.86	16.01	↓	↓	↓	↓	↓	↓	↓
A10	2105020-07	16.36	16.60	↓	↓	↓	black	↓	↓	↓
A11	2105020-08	16.84	17.00	↓	↓	↓	yellow	↓	↓	↓
A12	2105020-09	16.73	16.86	↓	↓	↓	↓	↓	↓	↓
B1	2105021-01	16.98	17.02	↓	↓	↓	↓	↓	↓	↓
B2	2105021-02	17.01	17.08	↓	↓	↓	↓	↓	↓	↓
B3	2105021-03	17.30	17.55	↓	↓	↓	↓	↓	↓	↓

IS: <u>21C0101, 10ML</u> (V8)	Cycle Time	APP: SEFUN (SOX) SDS	Check Out: Chemist/Date: <u>OF 05/17/21</u>	Soxhlet Siphoned Chemist/Date: <u>AO 05/17/21</u>	Notes:
NS: <u>20F0107, 10ML</u> (V4)	Start Date/Time	SOLV: <u>TOL.</u>	Check In: Chemist/Date: <u>OF 05/17/21</u>	Vial Transfer Chemist/Date: <u>OF 05/20/21</u>	
PS/CRS: <u>20H2501, 10ML</u> (V1)	05/17/21 13:52	Other: <u>N/A</u>	Balance ID: <u>HRMS-8</u>		
RS: <u>20H2502, 10ML</u> (V3)	Stop Date/Time	Final Volume(s) <u>20ML</u>			
(Diox/F) PCB PAH PEST PBDE HCB <u>05/18/21 06:27</u> <u>C14</u>					

Comments:

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

PREPARATION BENCH SHEET

Matrix: Solid

B1E0138

Chemist: AO

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 17-May-21 07:13

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:					
					CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B5	2105021-04	17.13	17.26	AO 05/17/21	AO OF 05/19/21	NA	AO 05/19/21	AO 05/19/21	AO 05/19/21	OF 05/20/21
B7	2105021-05	24.65	24.87	↓	↓	↓	yellow black ↓	↓	↓	↓
B8	2105021-06	23.08	23.14							
B9	2105021-07	18.12	18.35							
B10	2105046-01	18.79	18.83							
B11	2105046-02	17.61	17.76							
B12	2105046-03	18.12	18.35	↓	↓	↓	↓	↓	↓	↓
D7	2105046-04	17.90	18.05							

IS: 21C0101, 10ML (V8)	Cycle Time	APP: SEFUN (SOX) SDS	Check Out: Chemist/Date: OF 05/17/21	Soxhlet Siphoned Chemist/Date: AO 05/17/21	Notes:
NS: 20F0107, 10ML (V4)	Start Date/Time	SOLV: Tol.	Check In: Chemist/Date: OF 05/17/21	Vial Transfer Chemist/Date: OF 05/20/21	
PS/CRS: 20H2501, 10ML (V1)	05/17/21 13:52	Other: N/A	Balance ID: HRMS-8		
RS: 20H2502, 10ML (V3)	Stop Date/Time	Final Volume(s) 20ML			
(Diox/F) PCB PAH PEST PBDE HCB	05/18/21 00:27	C14			

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: B1E0138

Matrix: Solid

LabNumber	WetWeight Initial (g)	% Solids (Extraction Solids)	DryWeight Initial (g)	Final (uL)	Extracted	Ext By	Spike	SpikeAmount (uL)	ClientMatrix	Analysis
2105020-01	19.45	51.58502	10.0333	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105020-02	17.45	57.36568	10.0103	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105020-03	15.97	63.25678	10.1021	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105020-04	14.97	67.15543	10.0532	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105020-05	14.5	69.25099	10.0414	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105020-06	16.01	63.05732	10.0955	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105020-07	16.6	61.14286	10.1497	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105020-08	17	59.38932	10.0962	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105020-09	16.86	59.76409	10.0762	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105021-01	17.02	58.88554	10.0223	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105021-02	17.08	58.77342	10.0385	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105021-03	17.55	57.80591	10.1449	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105021-04	17.26	58.38384	10.0771	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105021-05	24.87	40.57143	10.0901	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105021-06	23.14	43.3291	10.0264	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105021-07	18.35	55.20134	10.1294	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105046-01	18.83	53.2294	10.0231	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105046-02	17.76	56.77966	10.0841	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105046-03	18.35	55.1948	10.1282	20	17-May-21 07:13	OQF			Sediment	1613 Full List
2105046-04	18.05	55.85831	10.0824	20	17-May-21 07:13	OQF			Sediment	1613 Full List
B1E0138-BLK1	10			20	17-May-21 07:13	OQF				QC
B1E0138-BS1	10			20	17-May-21 07:13	OQF	20F0107	10		QC
B1E0138-DUP1	16.44	61.14286	10.0519	20	17-May-21 07:13	OQF				QC

All bolded data on report verified against written benchsheet by (initial/date) AD 05/21/21

Percent Moisture/Percent Solids

D2216-90

BATCH ID B1E0040

Analyst: OF

Test Code: %Moist/%Solids

Analyte:

Units: %

Data Entry Verified by:
(Initial and Date)

Dried at 110°C +/- 5°C

Oven ID: 01 02

Inst HRMS-09

Date/Time IN: Date/Time OUT

05/06/21 05/10/21

10:05 142

B		C	D	E	F	G	H	I	K	L	M	N	O	P
Particle Size	SampleID		Initial and Date:	OF 05/06/21	CH 05/10/21				OF 05/06/21					OF 05/06/21
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*	
	2105020-01	A	1.25	8.19	4.83	N/A	N/A	mud		N/A			X	
	2105020-02		1.25	7.02	4.56								X	
	2105020-03		1.26	6.05	4.29								X	
	2105020-04		1.26	8.08	5.84								X	
	2105020-05		1.26	8.87	6.53								X	
	2105020-06		1.25	7.53	5.21								X	
	2105020-07		1.25	6.50	4.46								X	
	2105020-08		1.26	7.81	5.15								X	
	2105020-09		1.26	8.89	5.82								X	

*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Wednesday, May 26, 2021 3:12:50 PM Pacific Daylight Time

Printed: Wednesday, May 26, 2021 3:13:26 PM Pacific Daylight Time

Handwritten: He 5-26-2021

Handwritten: C1 06/02/2021

Method: Untitled 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank, Task: ST210524D2-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD		NO	1.05	10.000					0.0844	
2	1,2,3,7,8-PeCDD		NO	0.881	10.000					0.245	
3	1,2,3,4,7,8-HxCDD		NO	1.14	10.000					0.189	
4	1,2,3,6,7,8-HxCDD		NO	1.01	10.000					0.207	
5	1,2,3,7,8,9-HxCDD		NO	1.02	10.000					0.222	
6	1,2,3,4,6,7,8-HpCDD		NO	1.07	10.000					0.230	
7	OCDD		NO	1.00	10.000					0.491	
8	2,3,7,8-TCDF		NO	0.864	10.000					0.0555	
9	1,2,3,7,8-PeCDF		NO	0.948	10.000					0.157	
10	2,3,4,7,8-PeCDF		NO	1.04	10.000					0.129	
11	1,2,3,4,7,8-HxCDF		NO	1.04	10.000					0.102	
12	1,2,3,6,7,8-HxCDF		NO	1.07	10.000					0.102	
13	2,3,4,6,7,8-HxCDF		NO	1.12	10.000					0.115	
14	1,2,3,7,8,9-HxCDF		NO	1.10	10.000					0.162	
15	1,2,3,4,6,7,8-HpCDF		NO	1.16	10.000					0.133	
16	1,2,3,4,7,8,9-HpCDF		NO	1.19	10.000					0.164	
17	OCDF		NO	0.909	10.000					0.374	
18	13C-2,3,7,8-TCDD	7.04e4	0.73	NO	1.15	10.000	26.91	1.024	118.62	59.3	0.376
19	13C-1,2,3,7,8-PeCDD	5.43e4	0.61	NO	0.887	10.000	31.07	1.183	118.20	59.1	0.266
20	13C-1,2,3,4,7,8-HxCDD	3.95e4	1.28	NO	0.645	10.000	34.52	1.014	105.54	52.8	0.604
21	13C-1,2,3,6,7,8-HxCDD	4.51e4	1.27	NO	0.717	10.000	34.64	1.018	108.62	54.3	0.544
22	13C-1,2,3,7,8,9-HxCDD	4.27e4	1.26	NO	0.714	10.000	34.96	1.027	103.19	51.6	0.546
23	13C-1,2,3,4,6,7,8-HpCDD	3.63e4	1.10	NO	0.583	10.000	38.33	1.127	107.29	53.6	0.863
24	13C-OCDD	4.79e4	0.87	NO	0.451	10.000	41.78	1.228	182.97	45.7	0.661
25	13C-2,3,7,8-TCDF	1.19e5	0.78	NO	1.09	10.000	26.34	1.003	120.06	60.0	0.303
26	13C-1,2,3,7,8-PeCDF	8.20e4	1.71	NO	0.805	10.000	29.96	1.141	111.69	55.8	0.903
27	13C-2,3,4,7,8-PeCDF	8.63e4	1.66	NO	0.792	10.000	30.91	1.177	119.43	59.7	0.917
28	13C-1,2,3,4,7,8-HxCDF	6.56e4	0.50	NO	0.997	10.000	33.54	0.986	113.43	56.7	0.871
29	13C-1,2,3,6,7,8-HxCDF	6.87e4	0.50	NO	1.03	10.000	33.69	0.990	115.16	57.6	0.844
30	13C-2,3,4,6,7,8-HxCDF	6.19e4	0.50	NO	0.940	10.000	34.40	1.011	113.58	56.8	0.924
31	13C-1,2,3,7,8,9-HxCDF	5.32e4	0.48	NO	0.852	10.000	35.54	1.044	107.63	53.8	1.02

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Wednesday, May 26, 2021 3:12:50 PM Pacific Daylight Time

Printed: Wednesday, May 26, 2021 3:13:26 PM Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank, Task: ST210524D2-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32 13C-1,2,3,4,6,7,8-HpCDF	4.42e4	0.43	NO	0.727	10.000	37.13	1.091	104.88	52.4	0.761	
33 13C-1,2,3,4,7,8,9-HpCDF	3.58e4	0.42	NO	0.608	10.000	39.07	1.148	101.60	50.8	0.909	
34 13C-OCDF	7.05e4	0.90	NO	0.631	10.000	42.14	1.238	192.66	48.2	0.795	
35 37Cl-2,3,7,8-TCDD	6.43e4			2.22	10.000	26.94	1.026	55.853	69.8	0.0359	
36 13C-1,2,3,4-TCDD	1.04e5	0.76	NO	1.00	10.000	26.26	1.000	200.00	100	0.431	
37 13C-1,2,3,4-TCDF	1.82e5	0.79	NO	1.00	10.000	25.04	1.000	200.00	100	0.330	
38 13C-1,2,3,4,6,9-HxCDF	1.16e5	0.49	NO	1.00	10.000	34.03	1.000	200.00	100	0.868	
39 Total Tetra-Dioxins				1.05	10.000					0.0565	
40 Total Penta-Dioxins				0.881	10.000					0.0727	
41 Total Hexa-Dioxins				1.01	10.000					0.0943	
42 Total Hepta-Dioxins				1.07	10.000					0.0977	
43 Total Tetra-Furans				0.864	10.000			0.00000		0.0205	0.0573
44 1st Func. Penta-Furans				0.948	10.000					0.0234	
45 Total Penta-Furans				0.948	10.000					0.0456	
46 Total Hexa-Furans				1.12	10.000					0.0661	
47 Total Hepta-Furans				1.16	10.000					0.0802	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Wednesday, May 26, 2021 3:12:50 PM Pacific Daylight Time
 Printed: Wednesday, May 26, 2021 3:13:26 PM Pacific Daylight Time

Method: Untitled 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank, Task: ST210524D2-1

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL	
1	Total Tetra-Furans	26.28	5.660e2	4.870e2	2.547e1	1.669e1	1.53	YES	0.000e0	0.00000	0.057269	0.0205

Penta-Furans function 1

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

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Wednesday, May 26, 2021 3:12:50 PM Pacific Daylight Time

Printed: Wednesday, May 26, 2021 3:13:26 PM Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank, Task: ST210524D2-1

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

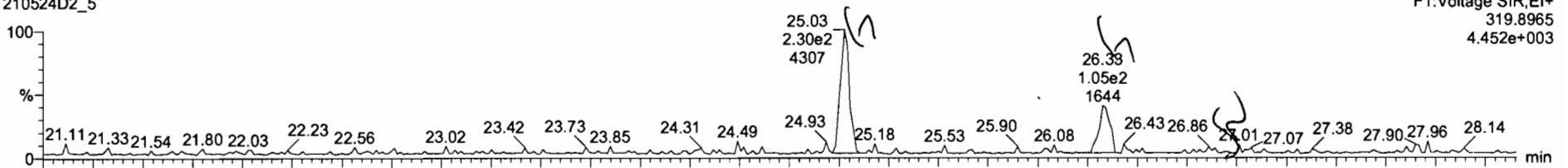
Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

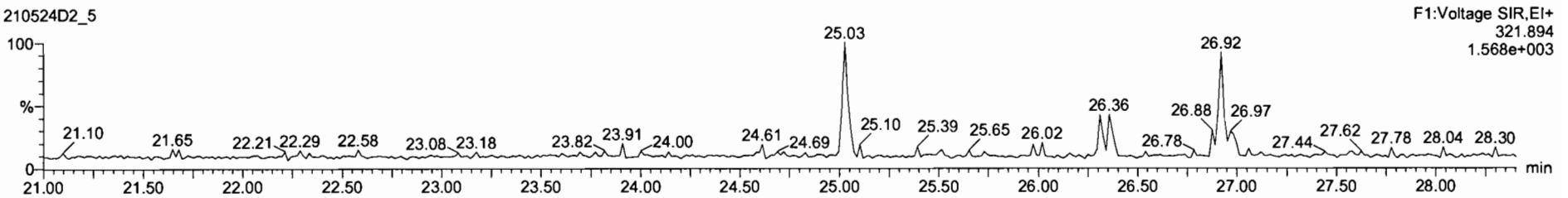
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2,3,7,8-TCDD

210524D2_5

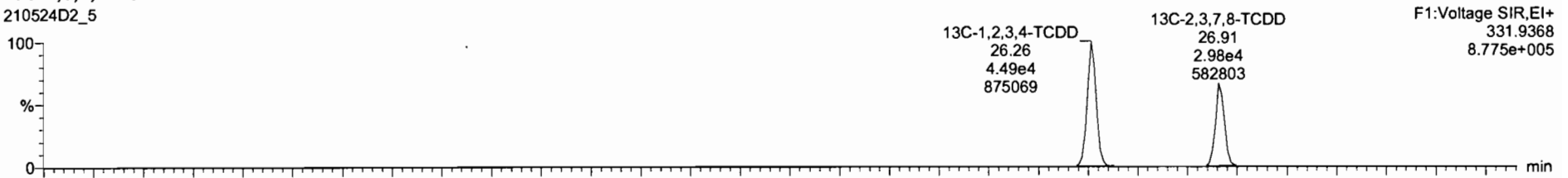


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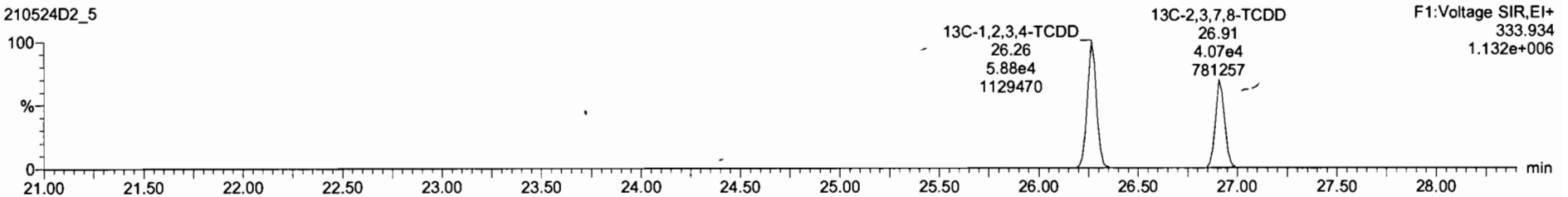


13C-2,3,7,8-TCDD

210524D2_5



210524D2_5



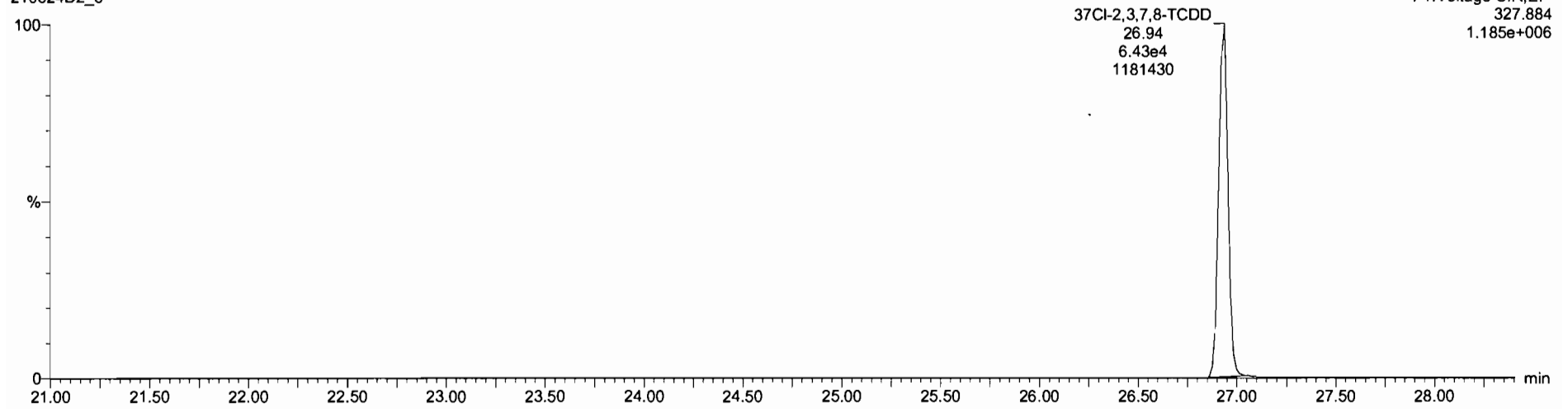
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Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

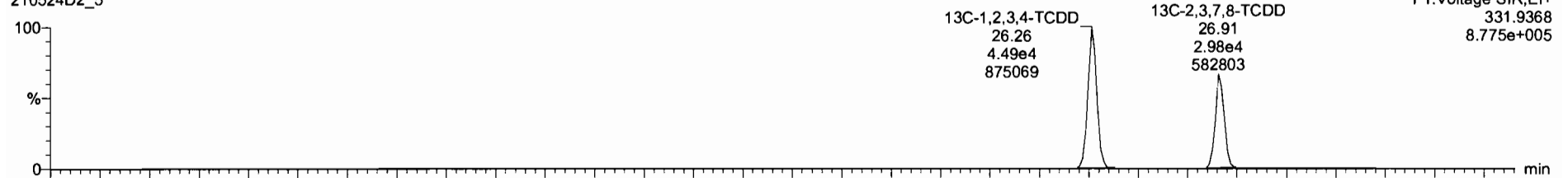
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210524D2_5

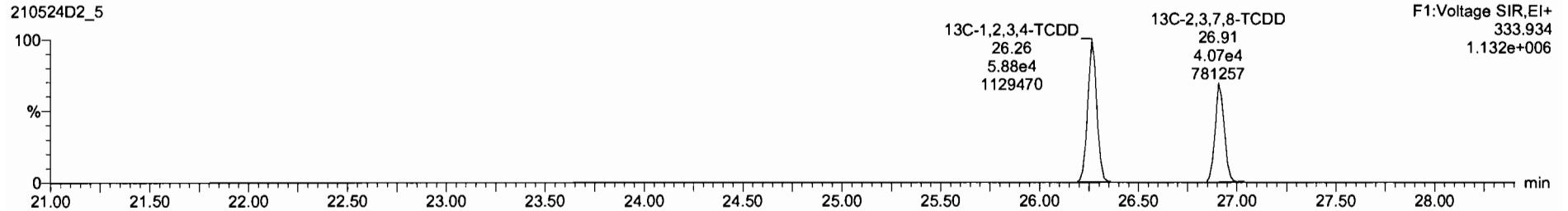


13C-1,2,3,4-TCDD

210524D2_5



210524D2_5



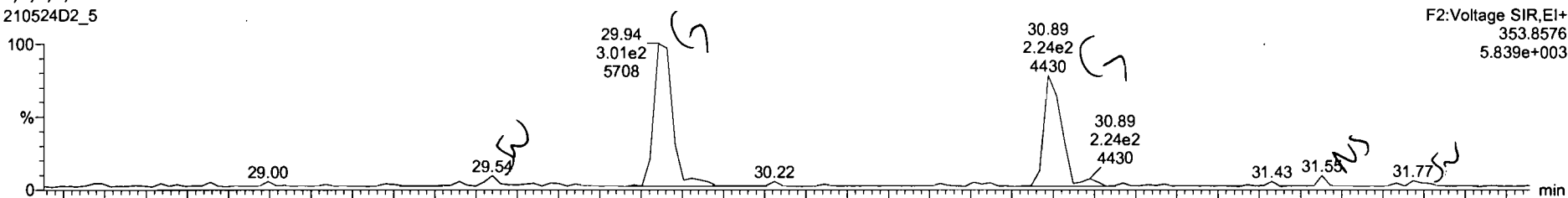
Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

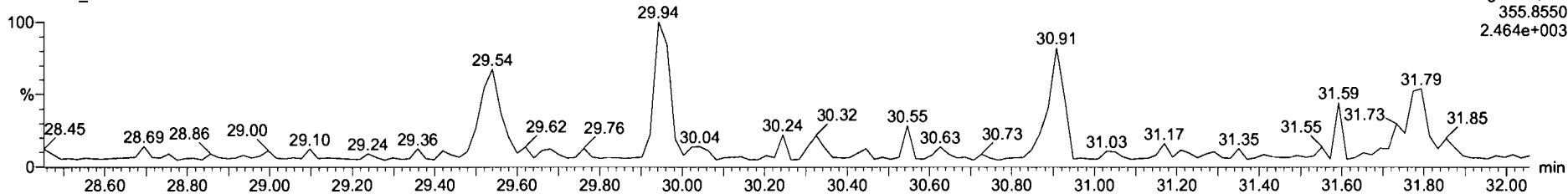
1,2,3,7,8-PeCDD

210524D2_5



F2:Voltage SIR,EI+
353.8576
5.839e+003

210524D2_5



F2:Voltage SIR,EI+
355.8550
2.464e+003

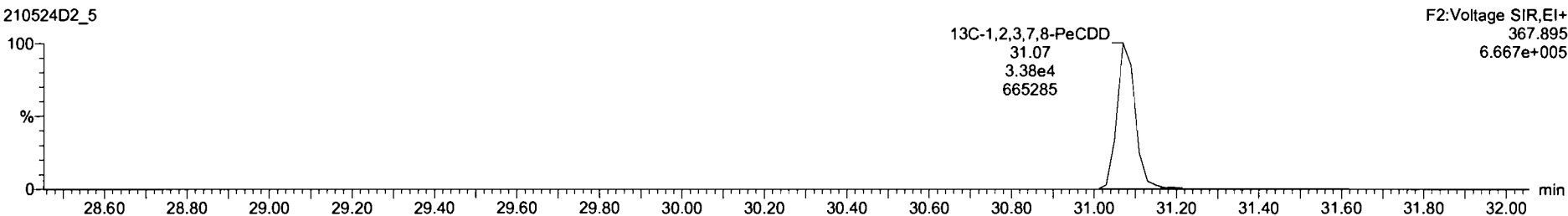
13C-1,2,3,7,8-PeCDD

210524D2_5



F2:Voltage SIR,EI+
365.8978
3.785e+005

210524D2_5

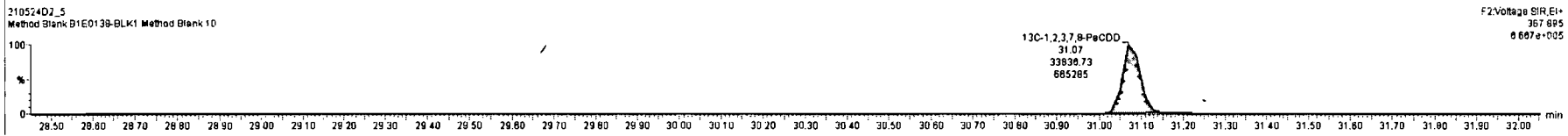
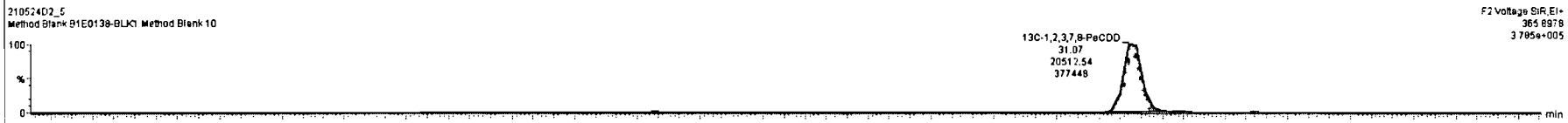
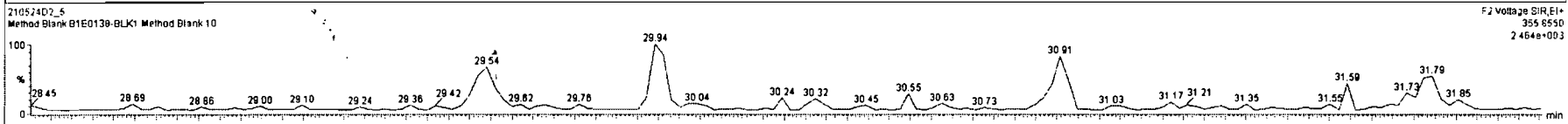
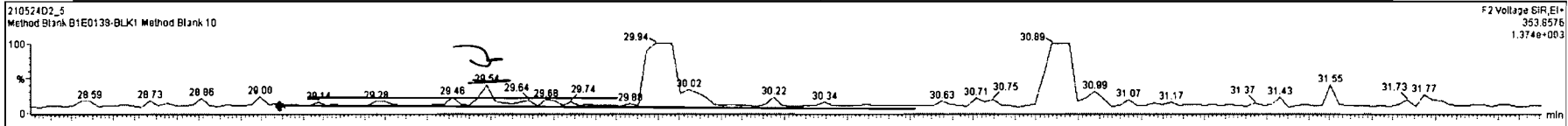


F2:Voltage SIR,EI+
367.895
6.667e+005

210524D2_5 - B1E0138-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	rv	RF	wAvd	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.88	10.000				0.0727		
41 Total Hexa-Dioxins				1.01	10.000				0.0943		
42 Total Hepta-Dioxins				1.07	10.000				0.0977		
43 Total Tetra-Furans				0.86	10.000				0.0205		
44 1st Func. Penta-Furans				0.95	10.000				0.0234		
45 Total Penta-Furans				0.95	10.000				0.0456		
46 Total Hexa-Furans				1.12	10.000				0.0661		

Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc.
1							



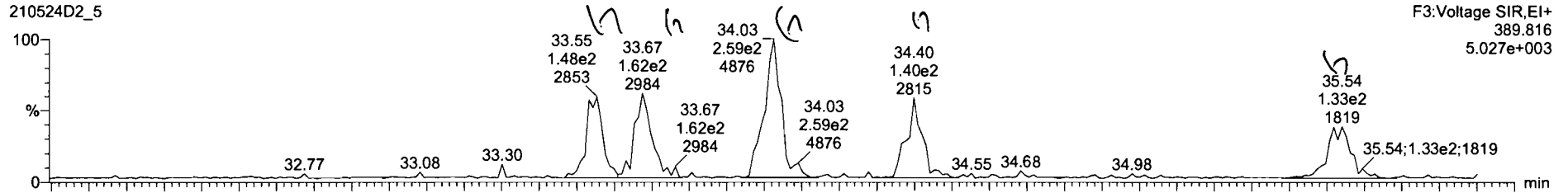
Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

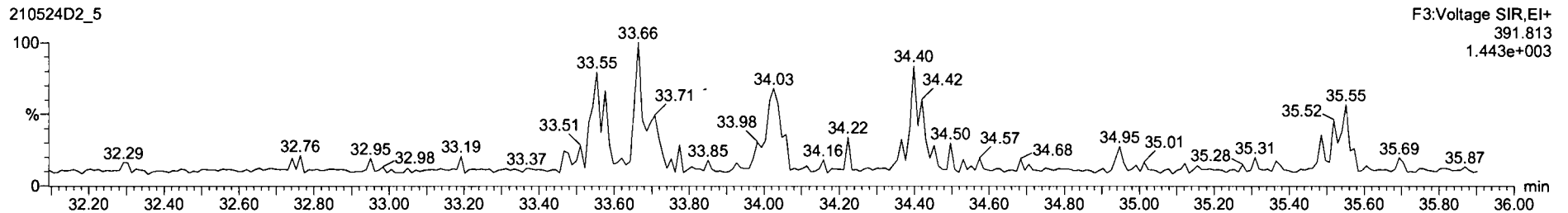
Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

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

210524D2_5

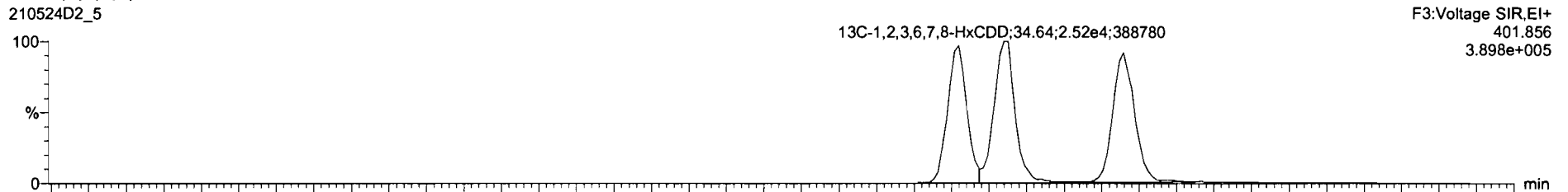


210524D2_5

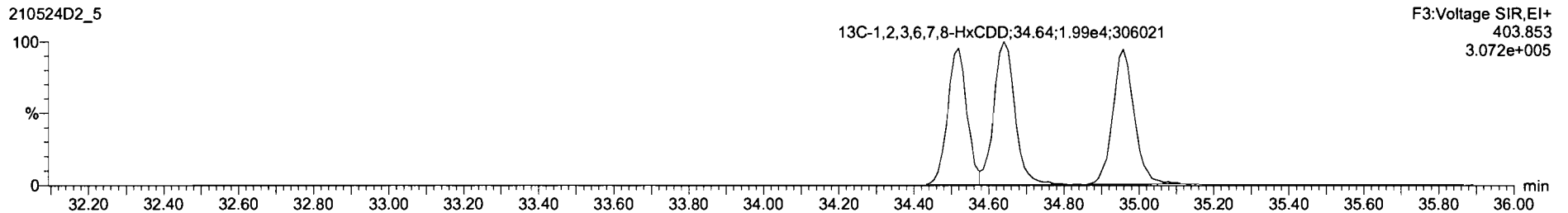


13C-1,2,3,4,7,8-HxCDD

210524D2_5



210524D2_5

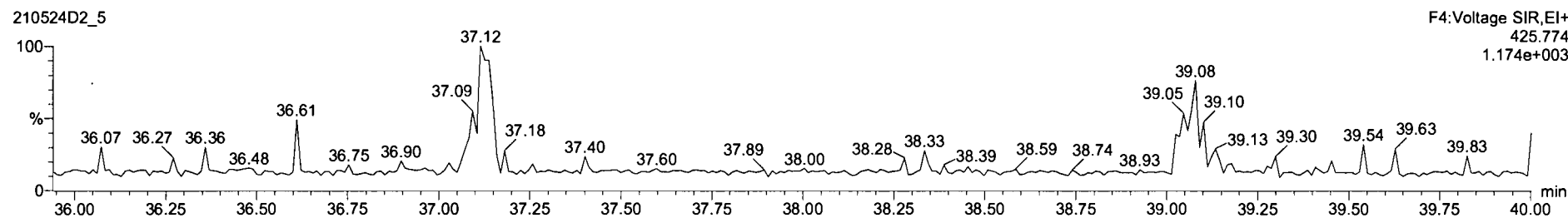
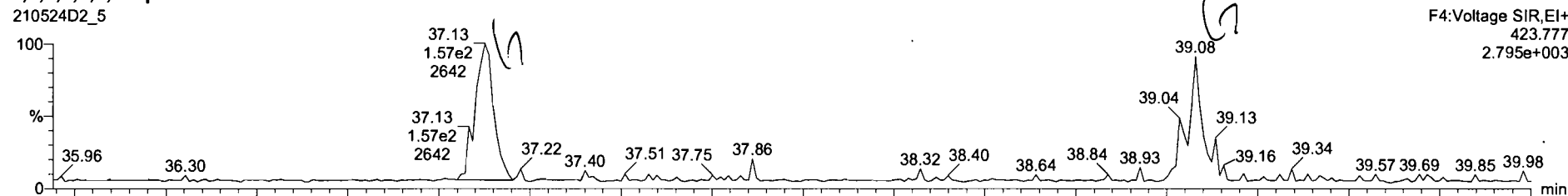


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

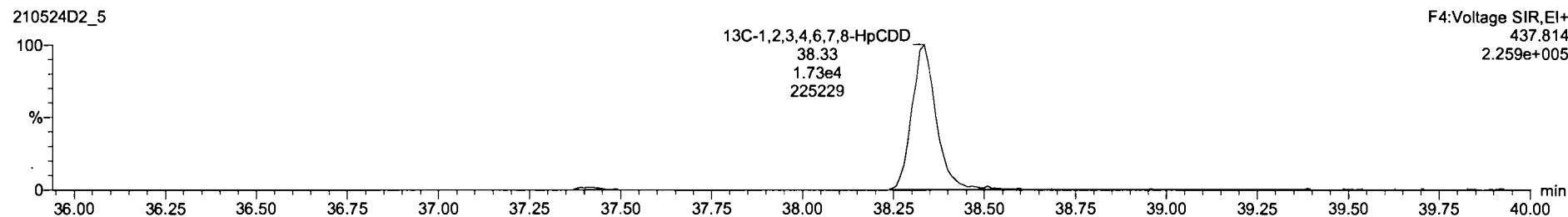
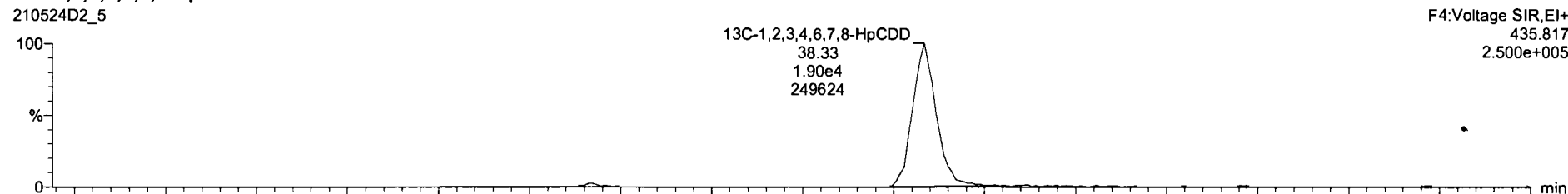
Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

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



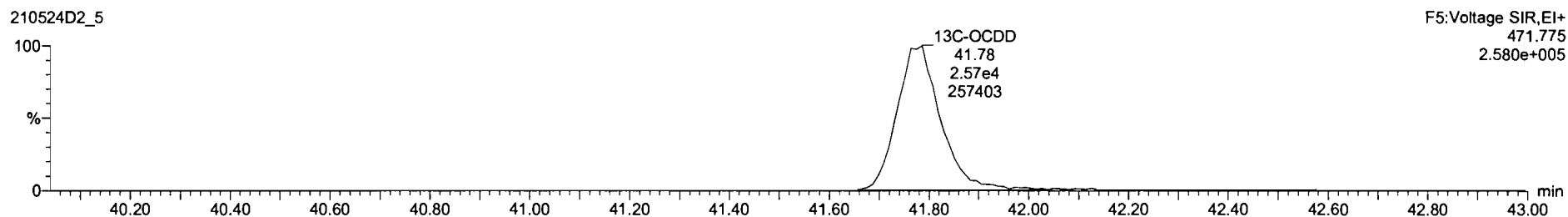
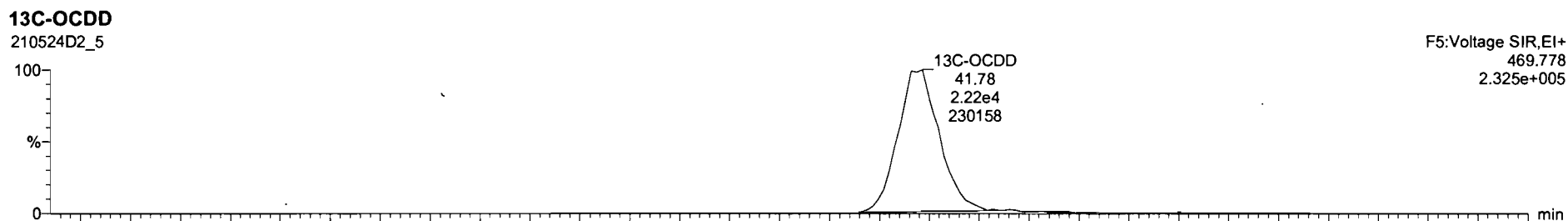
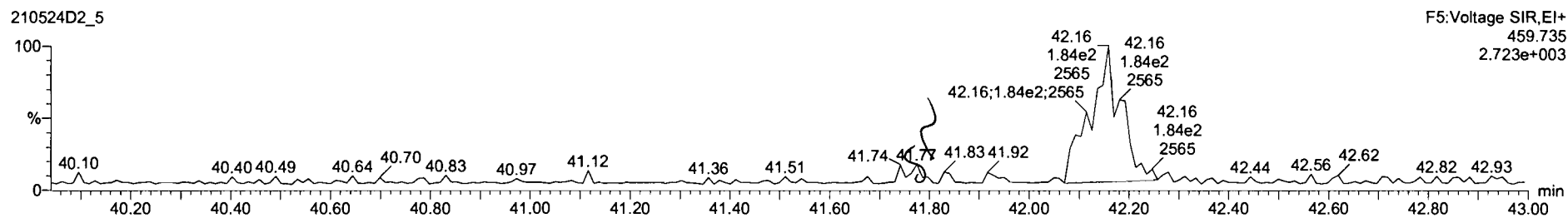
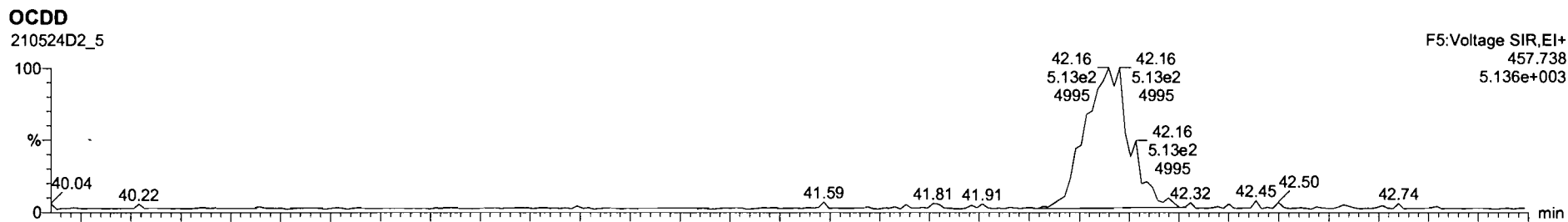
13C-1,2,3,4,6,7,8-HpCDD



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

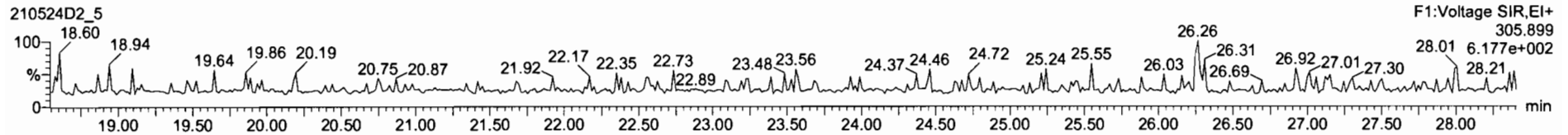
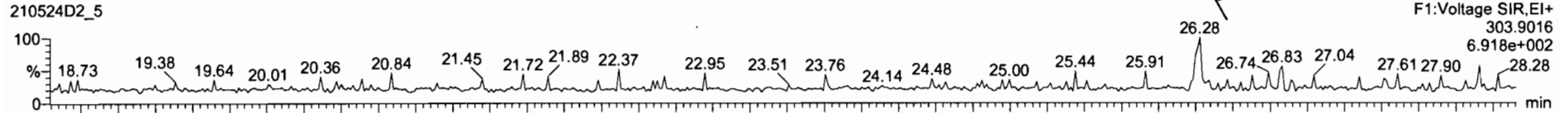


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

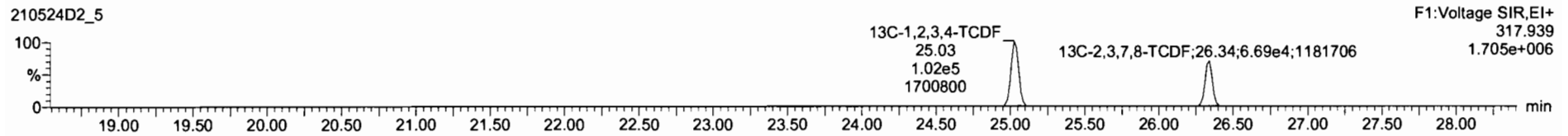
Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

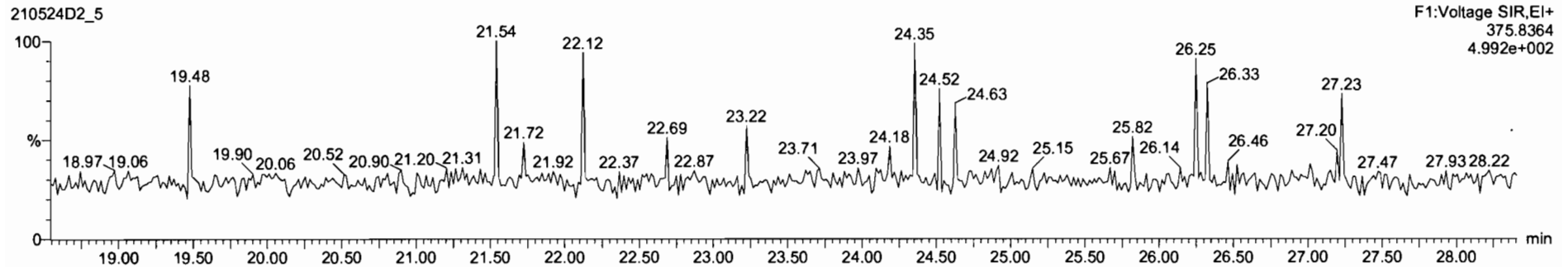
2,3,7,8-TCDF



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

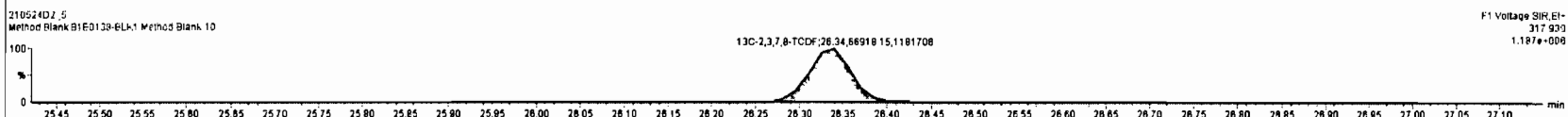
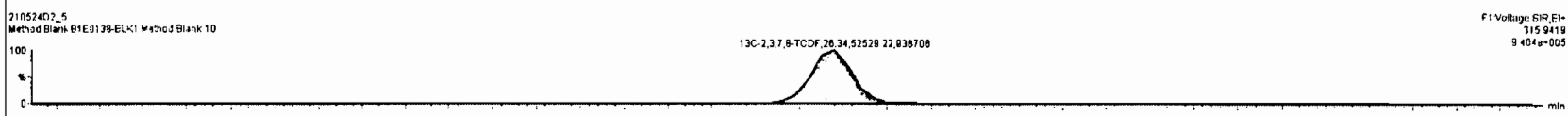
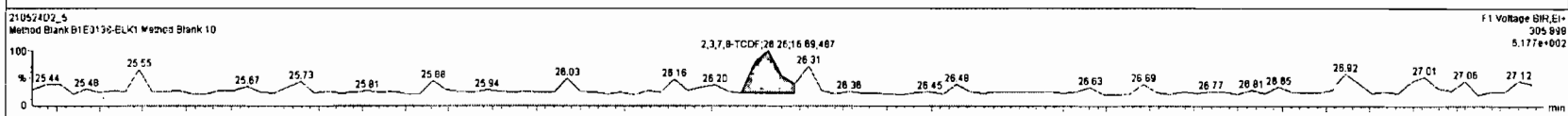
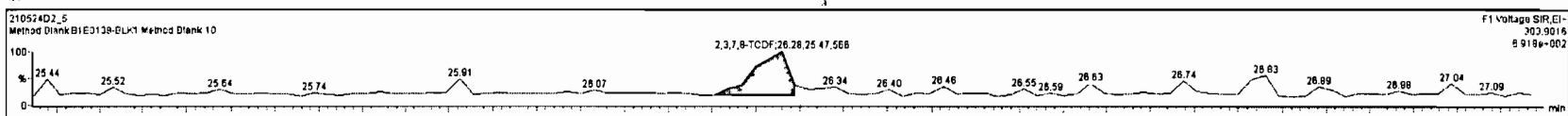


DPE1



#	Name	Resp	RA	nV	RF	WAVol	RT	RTT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxine				1.07	10.000					0.0977	
43	Total Tetra-Furans				0.96	10.000			0.000		0.0205	0.0573
44	1st Func. Penta-Furans				0.95	10.000					0.0234	
45	Total Penta-Furans				0.95	10.000					0.0456	
46	Total Hexa-Furans				1.12	10.000					0.0661	
47	Total Hepta-Furans				1.16	10.000					0.0802	

#	Name	RT	ref Resp	nd Resp	RA	nV	EMPC	Conc.
1	2,3,7,8-TCDF	26.26	2.547e1	1.869e1	1.53	YES	0.057269	0.00000



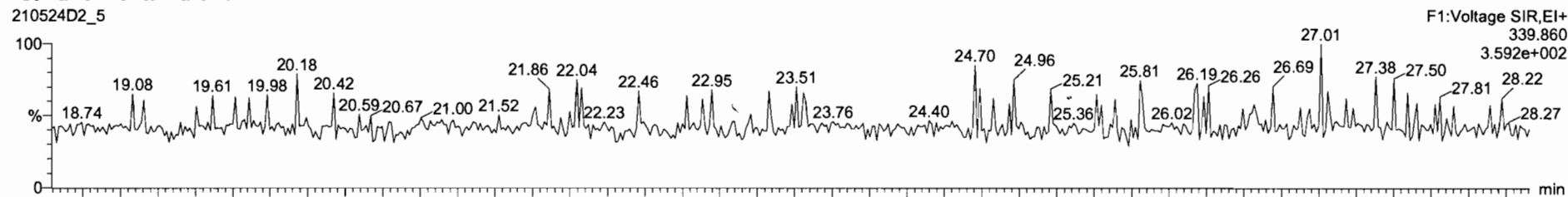
Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

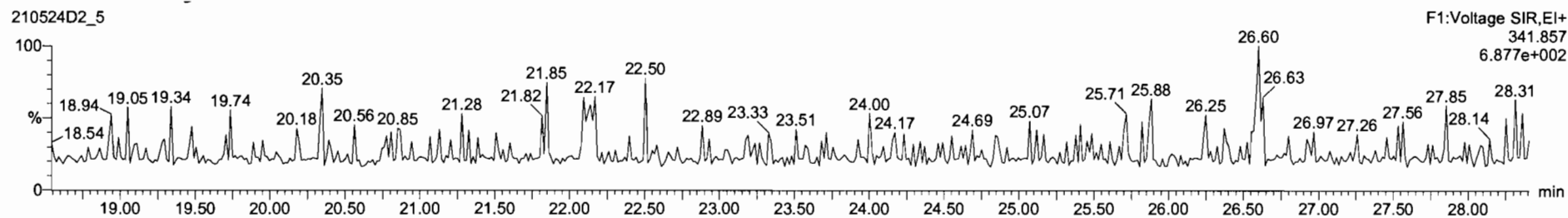
Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

210524D2_5

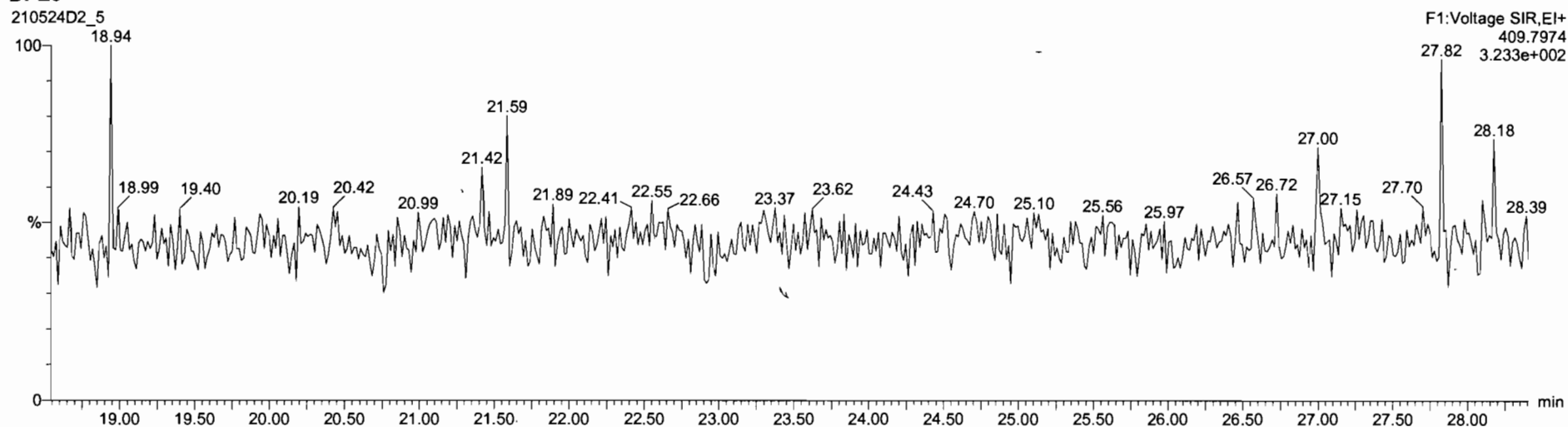


210524D2_5



DPE6

210524D2_5

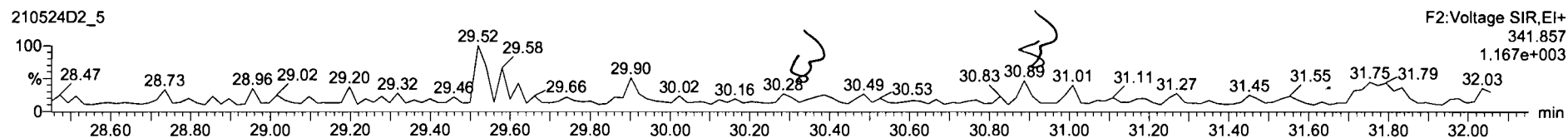
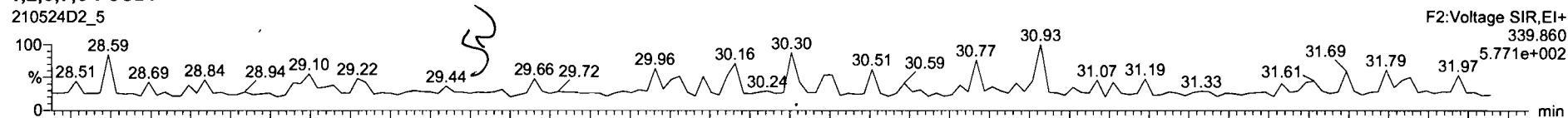


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

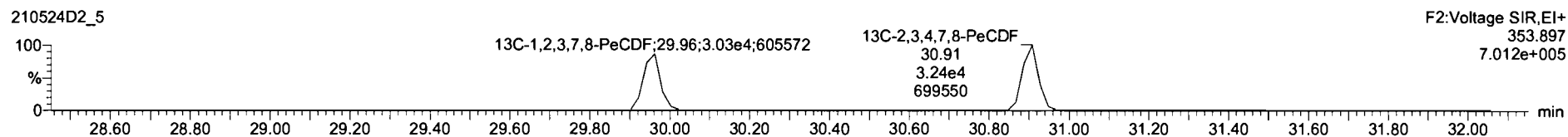
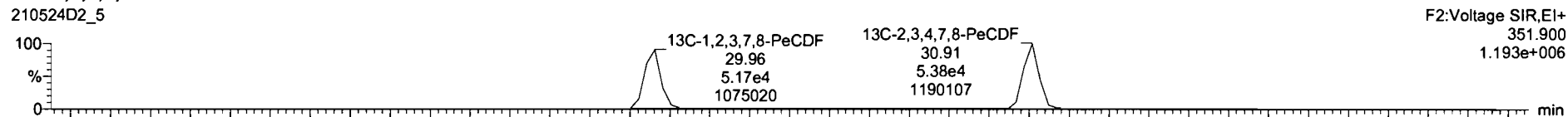
Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

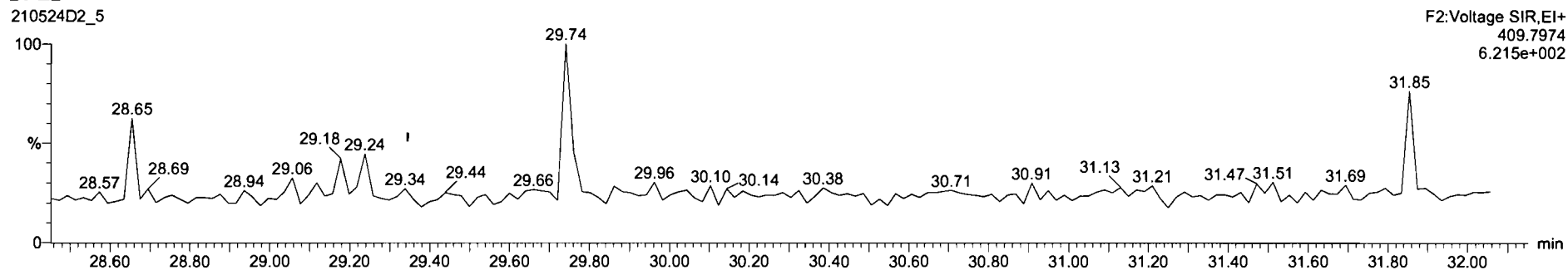
1,2,3,7,8-PeCDF



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



DPE2

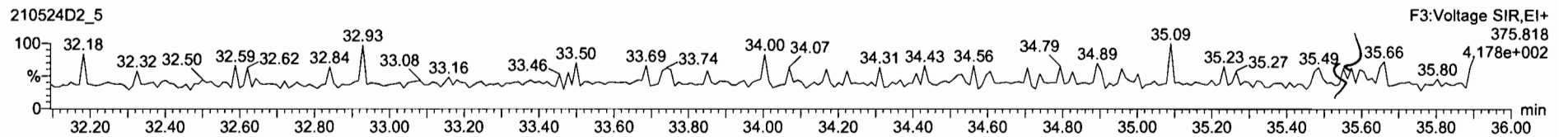
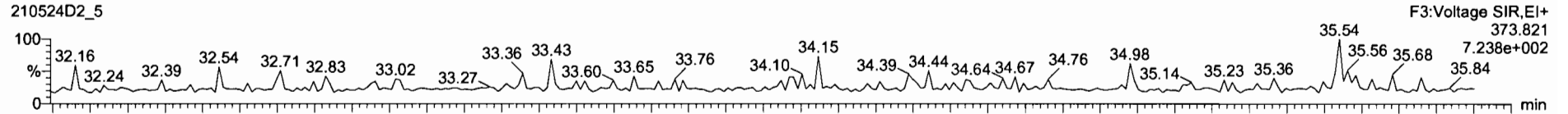


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

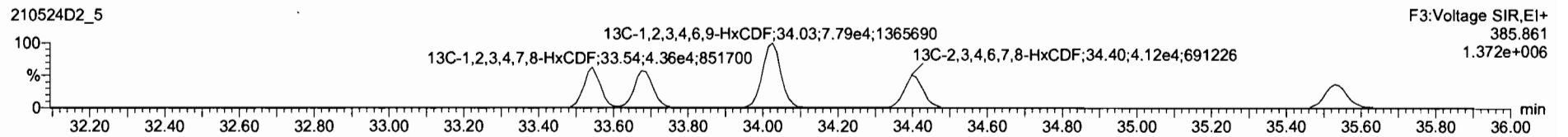
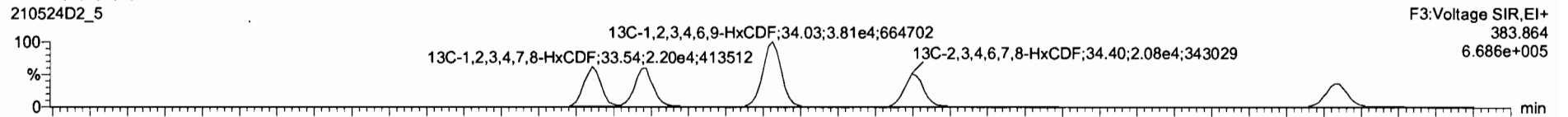
Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

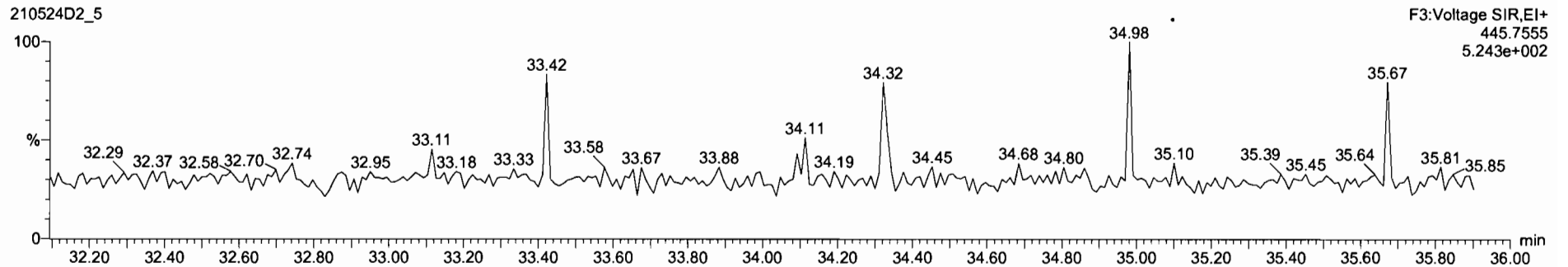
1,2,3,4,7,8-HxCDF



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



DPE3

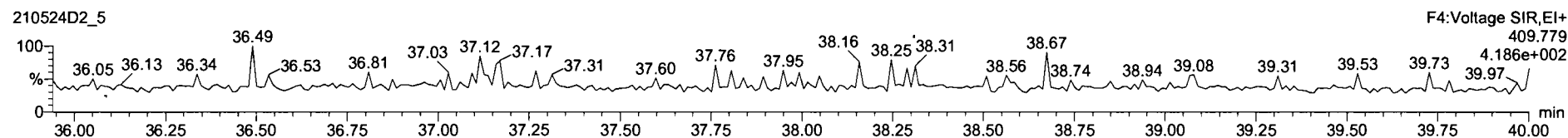
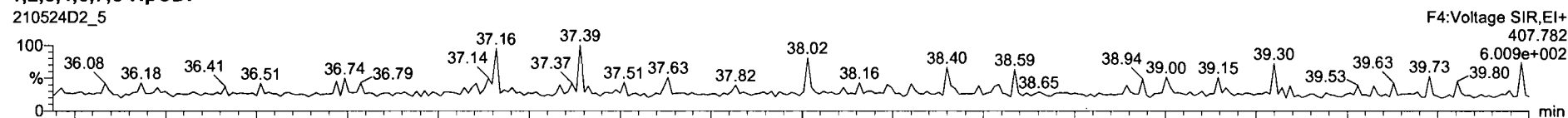


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

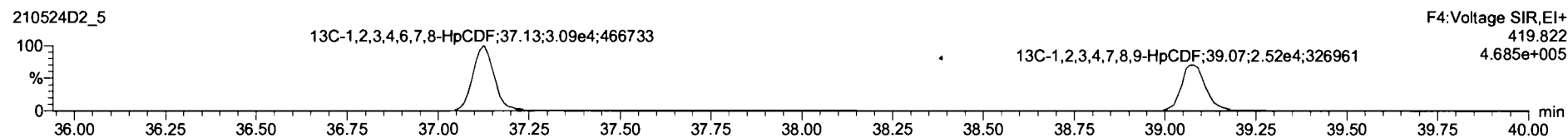
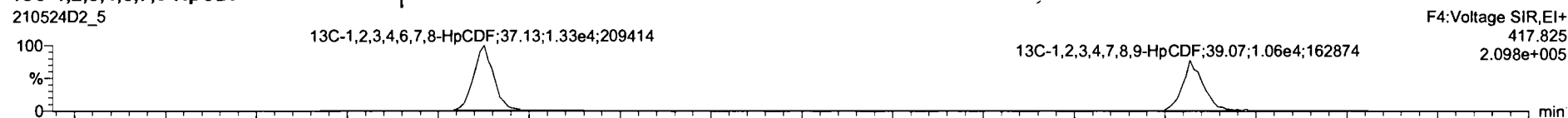
Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank

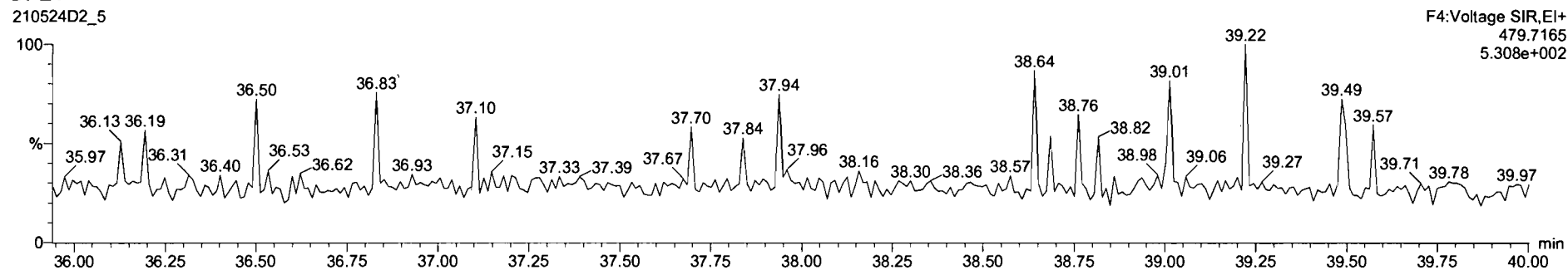
1,2,3,4,6,7,8-HpCDF



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



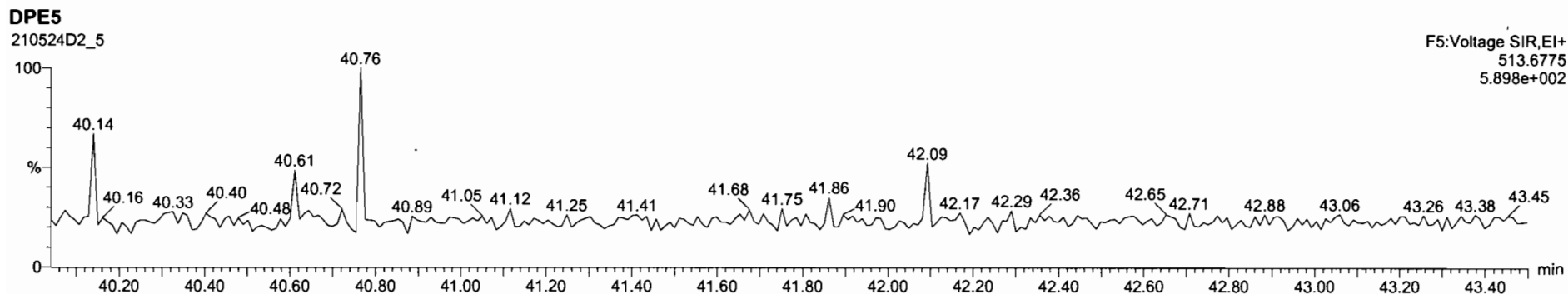
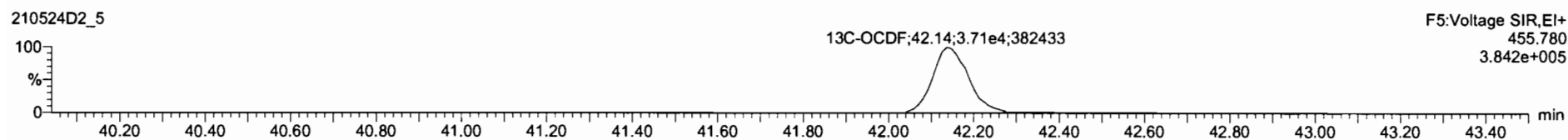
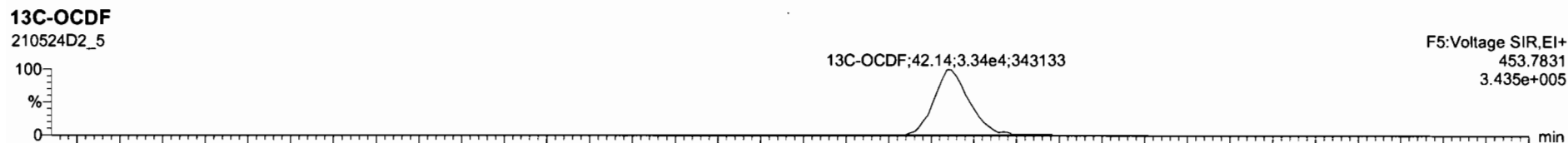
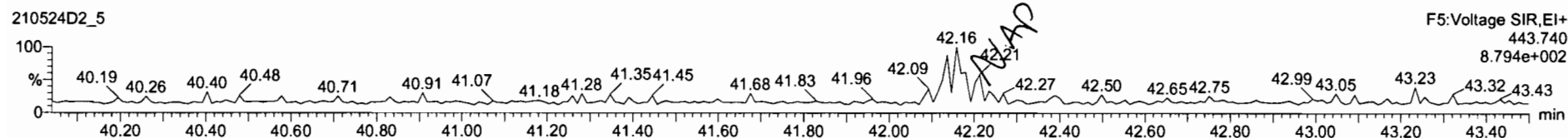
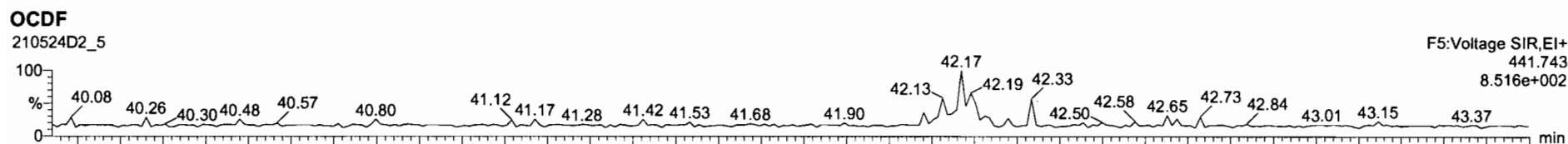
DPE4



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

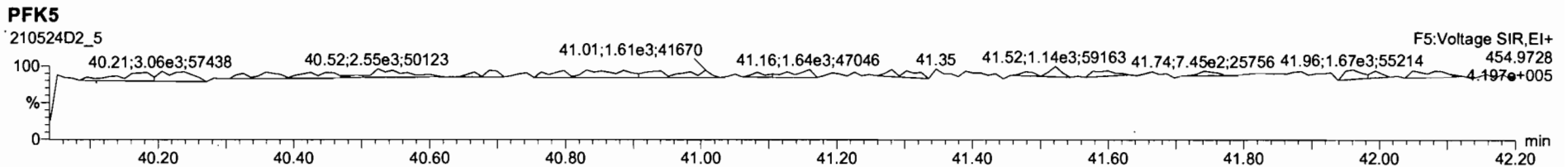
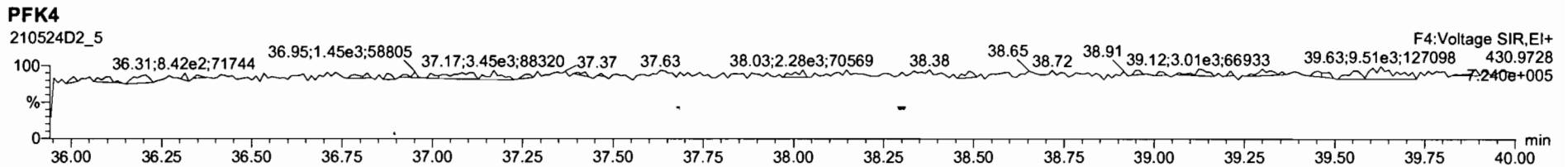
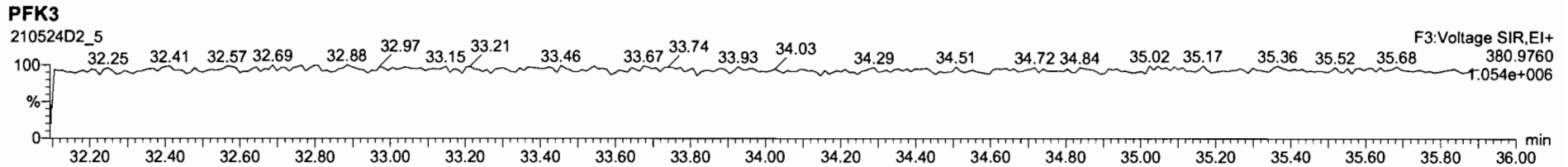
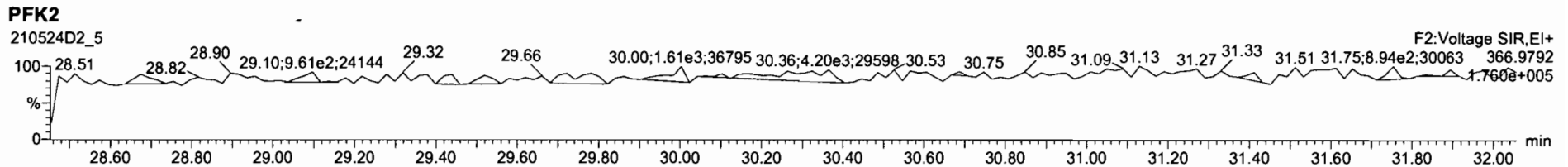
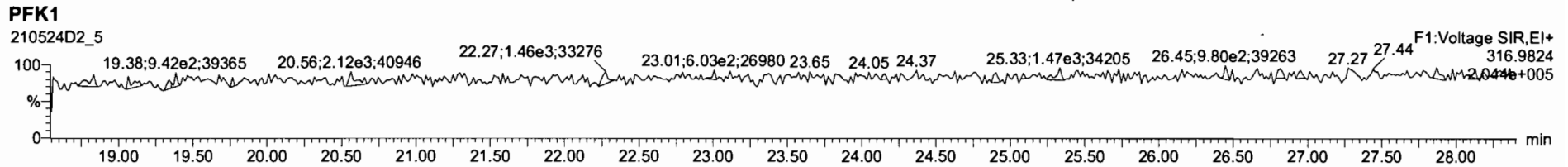
Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-5.qld

Last Altered: Tuesday, May 25, 2021 08:52:13 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:05 Pacific Daylight Time

Name: 210524D2_5, Date: 24-May-2021, Time: 22:16:47, ID: B1E0138-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

Last Altered: Thursday, June 10, 2021 08:30:14 Pacific Daylight Time
Printed: Thursday, June 10, 2021 08:30:55 Pacific Daylight Time

Hz 6-10-2021

CT06/10/2021

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.13e3	0.77	NO	1.05	10.000	26.95	1.001	24.550		0.234	24.5
2	1,2,3,7,8-PeCDD	1.94e4	0.61	NO	0.881	10.000	31.11	1.000	122.10		0.429	122
3	1,2,3,4,7,8-HxCDD	2.03e4	1.26	NO	1.14	10.000	34.56	1.001	117.25		0.822	117
4	1,2,3,6,7,8-HxCDD	2.09e4	1.28	NO	1.01	10.000	34.68	1.000	122.09		0.858	122
5	1,2,3,7,8,9-HxCDD	2.21e4	1.27	NO	1.02	10.000	34.98	1.001	119.18		0.817	119
6	1,2,3,4,6,7,8-HpCDD	1.82e4	1.07	NO	1.07	10.000	38.41	1.000	115.86		1.40	116
7	OCDD	2.41e4	0.92	NO	1.00	10.000	42.03	1.000	229.45		5.60	229
8	2,3,7,8-TCDF	6.77e3	0.77	NO	0.864	10.000	26.36	1.001	23.768		0.165	23.8
9	1,2,3,7,8-PeCDF	3.33e4	1.64	NO	0.948	10.000	29.98	1.000	127.34		0.488	127
10	2,3,4,7,8-PeCDF	3.56e4	1.61	NO	1.04	10.000	30.95	1.001	126.31		0.370	126
11	1,2,3,4,7,8-HxCDF	2.93e4	1.28	NO	1.04	10.000	33.56	1.000	117.92		0.610	118
12	1,2,3,6,7,8-HxCDF	3.11e4	1.22	NO	1.07	10.000	33.71	1.000	114.41		0.595	114
13	2,3,4,6,7,8-HxCDF	3.11e4	1.29	NO	1.12	10.000	34.45	1.001	118.54		0.695	119
14	1,2,3,7,8,9-HxCDF	2.54e4	1.27	NO	1.10	10.000	35.55	1.001	113.70		1.04	114
15	1,2,3,4,6,7,8-HpCDF	2.51e4	1.02	NO	1.16	10.000	37.19	1.000	121.29		1.04	121
16	1,2,3,4,7,8,9-HpCDF	2.11e4	1.03	NO	1.19	10.000	39.13	1.000	120.16		1.42	120
17	OCDF	3.02e4	0.91	NO	0.909	10.000	42.36	1.001	230.95		1.39	231
18	13C-2,3,7,8-TCDD	3.99e4	0.78	NO	1.15	10.000	26.92	1.024	81.625	40.8	0.588	
19	13C-1,2,3,7,8-PeCDD	3.61e4	0.60	NO	0.887	10.000	31.11	1.184	95.565	47.8	0.405	
20	13C-1,2,3,4,7,8-HxCDD	3.02e4	1.27	NO	0.645	10.000	34.54	1.015	93.977	47.0	0.671	
21	13C-1,2,3,6,7,8-HxCDD	3.38e4	1.27	NO	0.717	10.000	34.67	1.019	94.665	47.3	0.604	
22	13C-1,2,3,7,8,9-HxCDD	3.64e4	1.33	NO	0.714	10.000	34.96	1.027	102.14	51.1	0.606	
23	13C-1,2,3,4,6,7,8-HpCDD	2.95e4	1.05	NO	0.583	10.000	38.40	1.128	101.55	50.8	0.904	
24	13C-OCDD	4.20e4	0.87	NO	0.451	10.000	42.02	1.234	186.41	46.6	2.87	
25	13C-2,3,7,8-TCDF	6.60e4	0.76	NO	1.09	10.000	26.34	1.002	78.151	39.1	0.413	
26	13C-1,2,3,7,8-PeCDF	5.51e4	1.64	NO	0.805	10.000	29.98	1.141	88.436	44.2	0.594	
27	13C-2,3,4,7,8-PeCDF	5.43e4	1.67	NO	0.792	10.000	30.93	1.177	88.671	44.3	0.604	
28	13C-1,2,3,4,7,8-HxCDF	4.76e4	0.48	NO	0.997	10.000	33.55	0.986	95.691	47.8	0.670	
29	13C-1,2,3,6,7,8-HxCDF	5.06e4	0.50	NO	1.03	10.000	33.70	0.990	98.726	49.4	0.649	
30	13C-2,3,4,6,7,8-HxCDF	4.69e4	0.51	NO	0.940	10.000	34.43	1.012	100.06	50.0	0.711	
31	13C-1,2,3,7,8,9-HxCDF	4.07e4	0.49	NO	0.852	10.000	35.53	1.044	95.703	47.9	0.784	
32	13C-1,2,3,4,6,7,8-HpCDF	3.57e4	0.43	NO	0.727	10.000	37.18	1.092	98.466	49.2	0.918	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

Last Altered: Thursday, June 10, 2021 08:30:14 Pacific Daylight Time

Printed: Thursday, June 10, 2021 08:30:55 Pacific Daylight Time

Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	2.96e4	0.45	NO	0.608	10.000	39.12	1.149	97.446	48.7	1.10	
34	13C-OCDF	5.76e4	0.91	NO	0.631	10.000	42.33	1.244	182.92	45.7	0.656	
35	37Cl-2,3,7,8-TCDD	3.47e4			2.22	10.000	26.94	1.025	36.642	45.8	0.0435	
36	13C-1,2,3,4-TCDD	8.53e4	0.82	NO	1.00	10.000	26.28	1.000	200.00	100	0.673	
37	13C-1,2,3,4-TCDF	1.55e5	0.76	NO	1.00	10.000	25.04	1.000	200.00	100	0.451	
38	13C-1,2,3,4,6,9-HxCDF	9.98e4	0.49	NO	1.00	10.000	34.04	1.000	200.00	100	0.668	

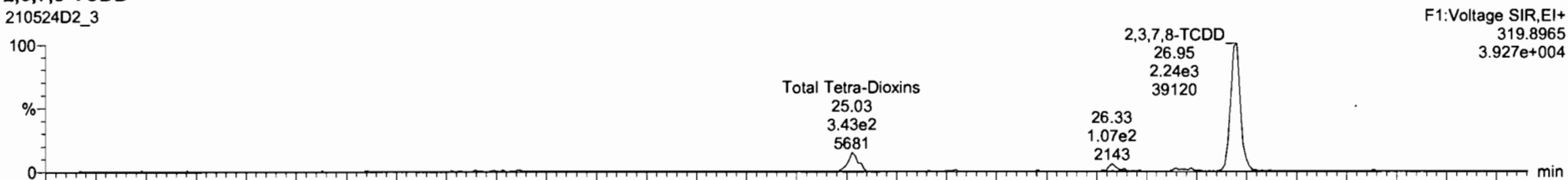
Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

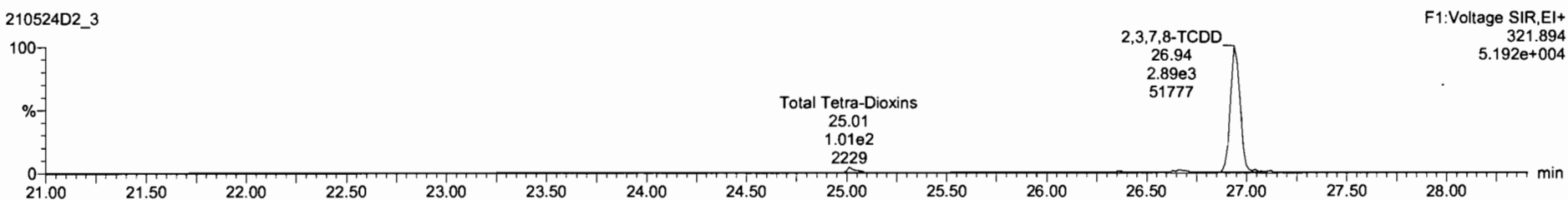
Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR

2,3,7,8-TCDD
210524D2_3



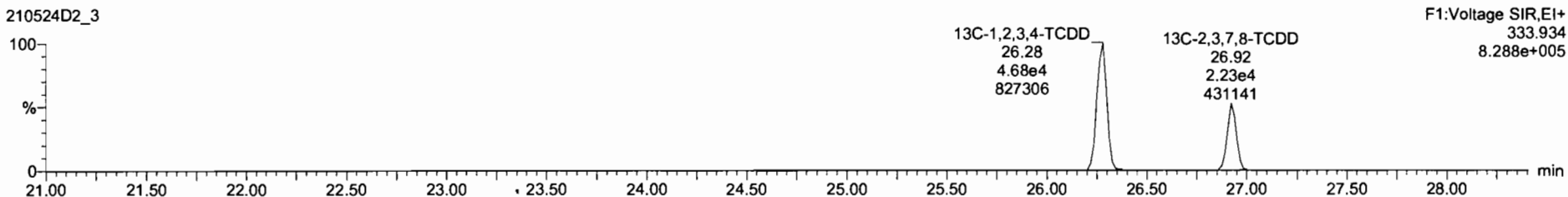
210524D2_3



13C-2,3,7,8-TCDD
210524D2_3



210524D2_3



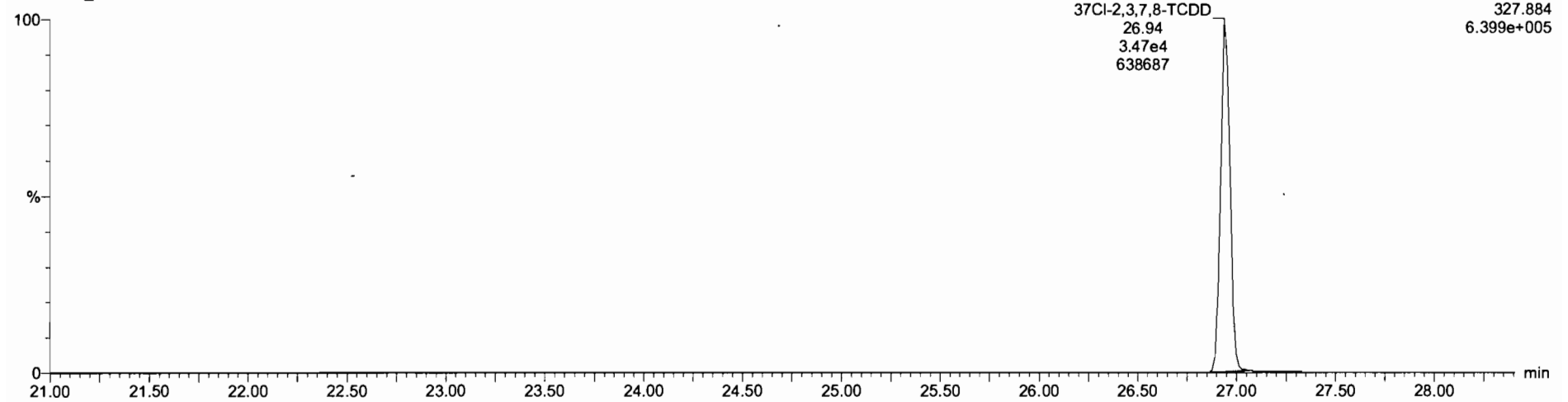
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Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR

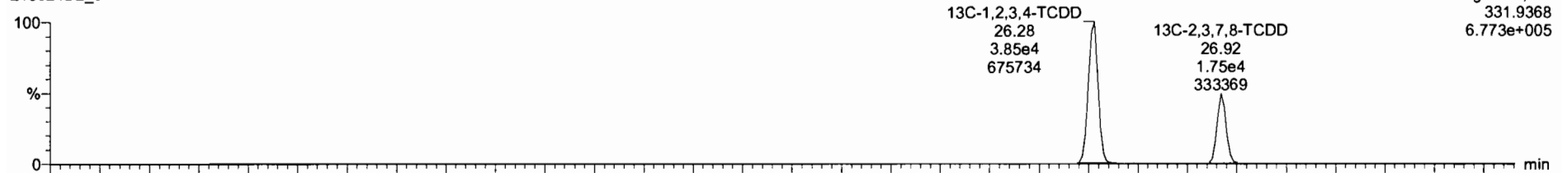
37Cl-2,3,7,8-TCDD

210524D2_3

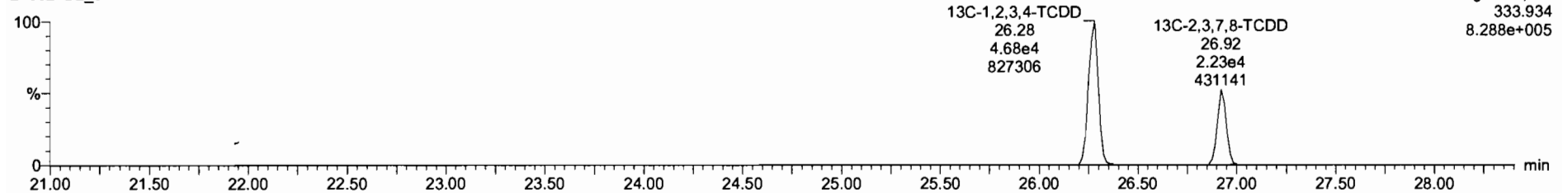


13C-1,2,3,4-TCDD

210524D2_3



210524D2_3



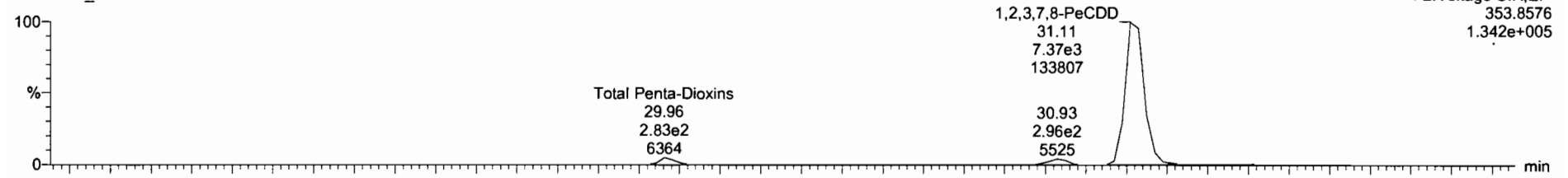
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Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

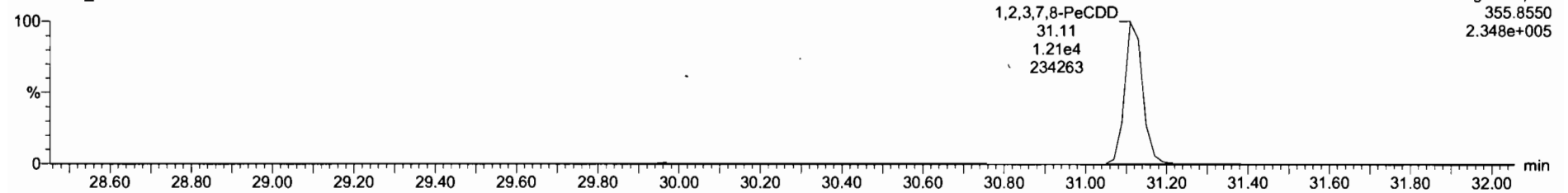
Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDD

210524D2_3

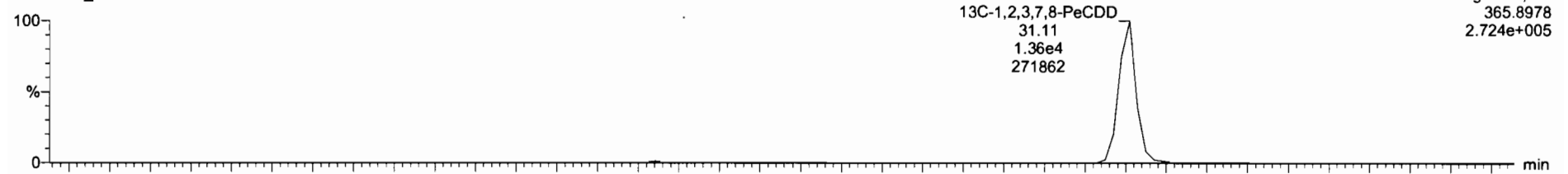


210524D2_3

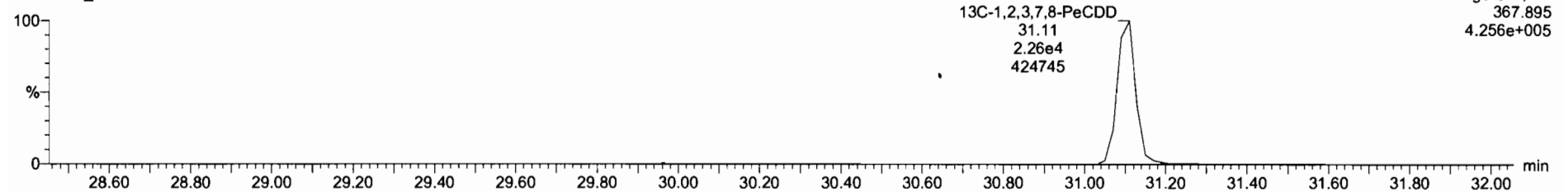


13C-1,2,3,7,8-PeCDD

210524D2_3



210524D2_3



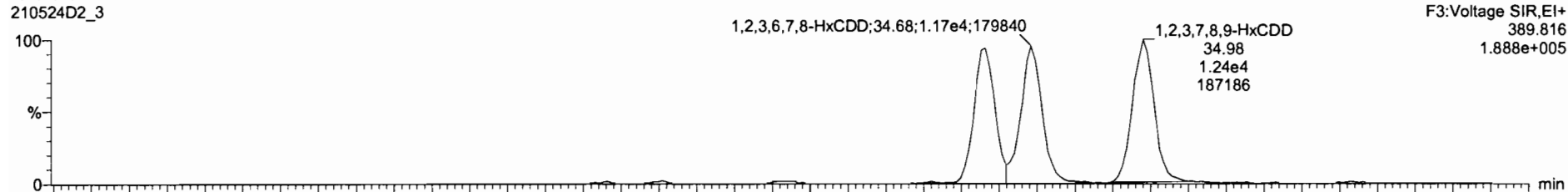
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Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

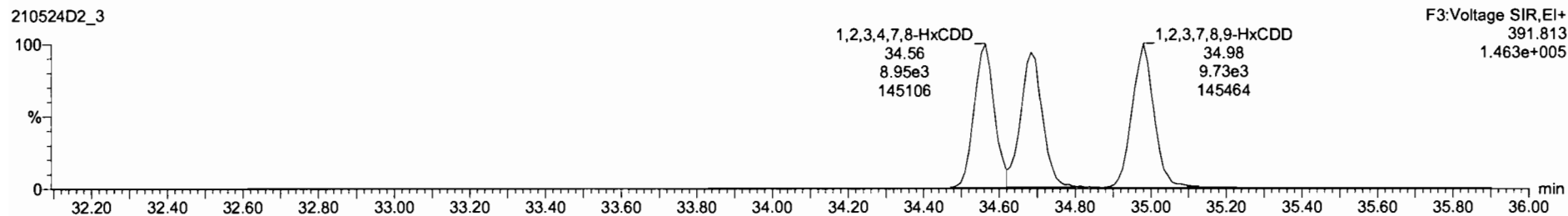
Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR

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

210524D2_3

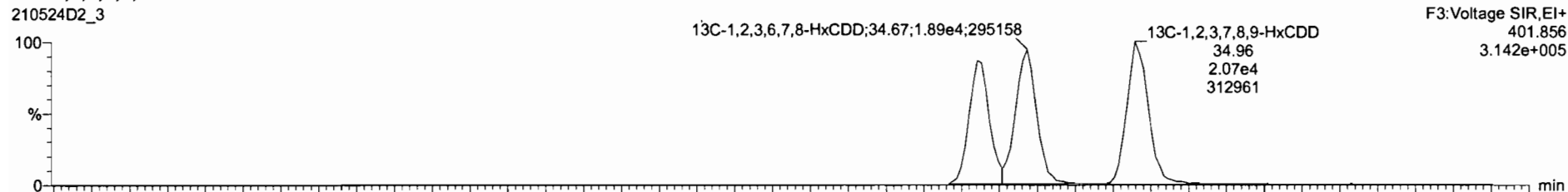


210524D2_3

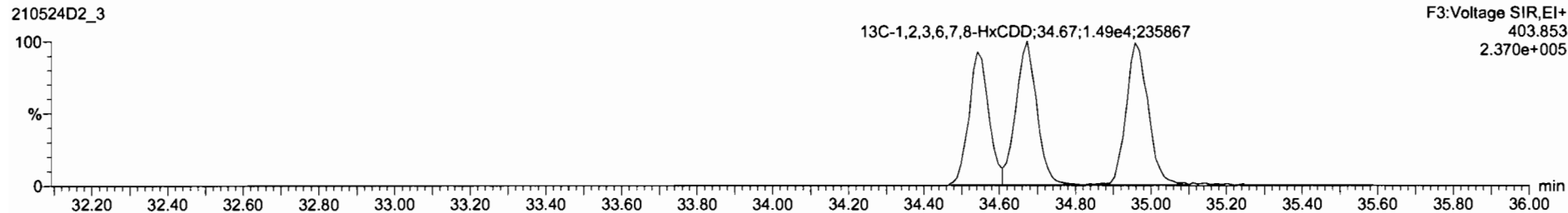


13C-1,2,3,4,7,8-HxCDD

210524D2_3



210524D2_3



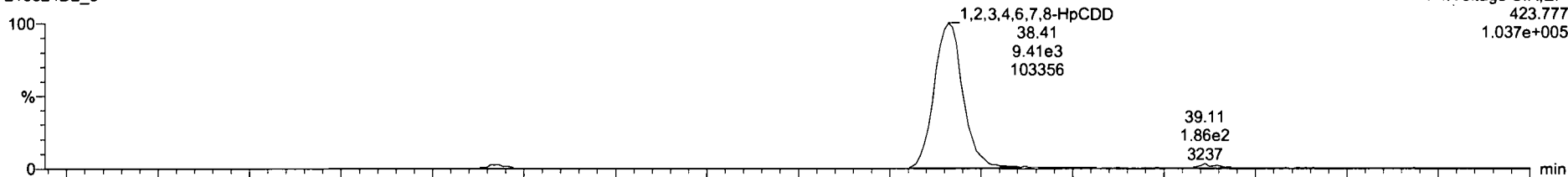
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Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR

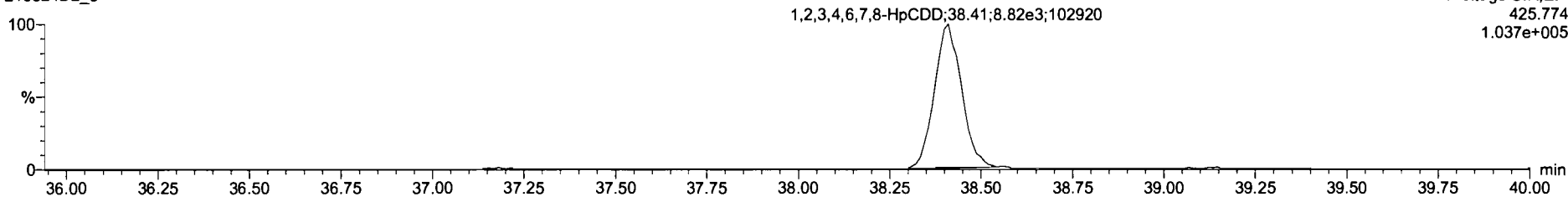
1,2,3,4,6,7,8-HpCDD

210524D2_3



F4:Voltage SIR,EI+
423.777
1.037e+005

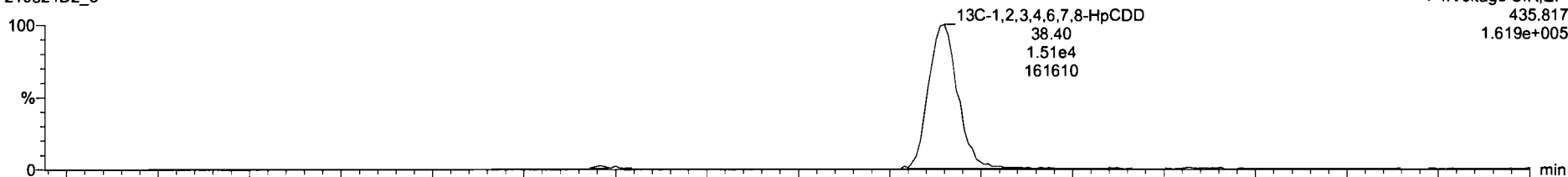
210524D2_3



F4:Voltage SIR,EI+
425.774
1.037e+005

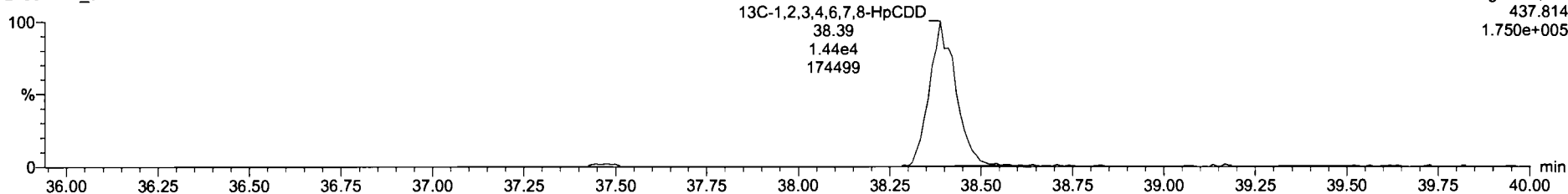
13C-1,2,3,4,6,7,8-HpCDD

210524D2_3



F4:Voltage SIR,EI+
435.817
1.619e+005

210524D2_3

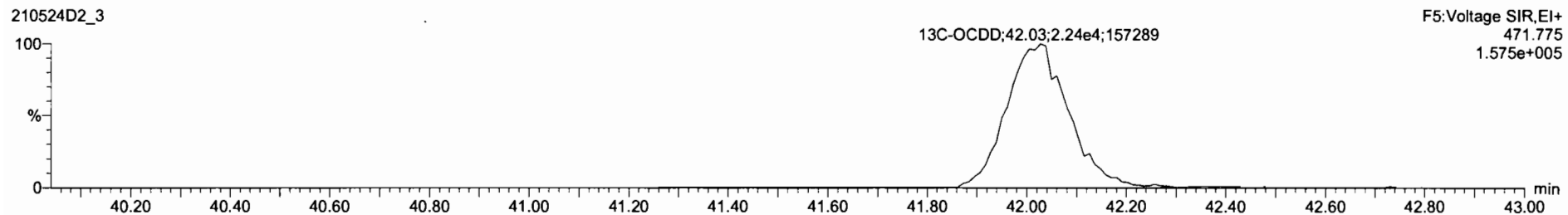
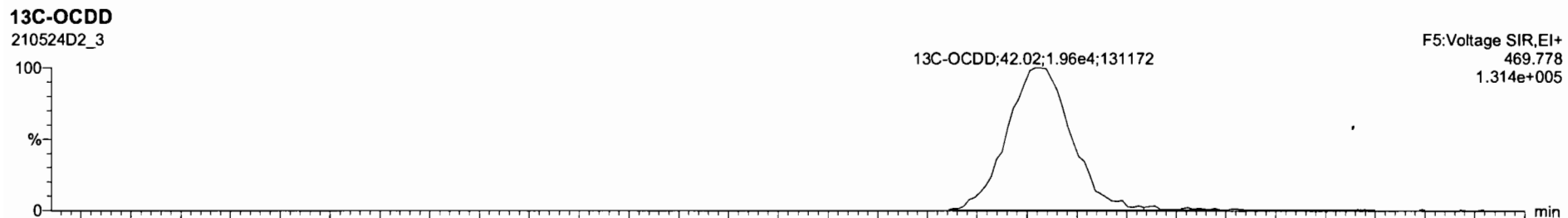
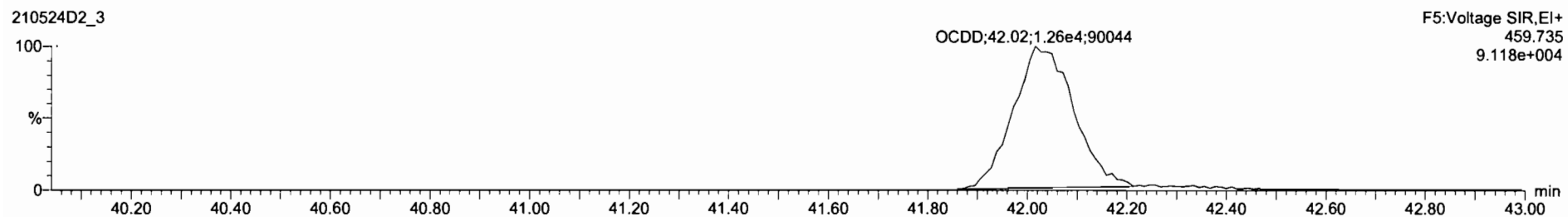
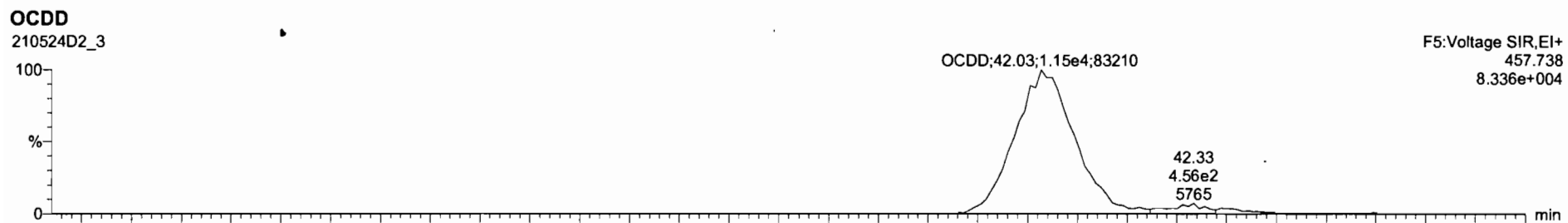


F4:Voltage SIR,EI+
437.814
1.750e+005

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

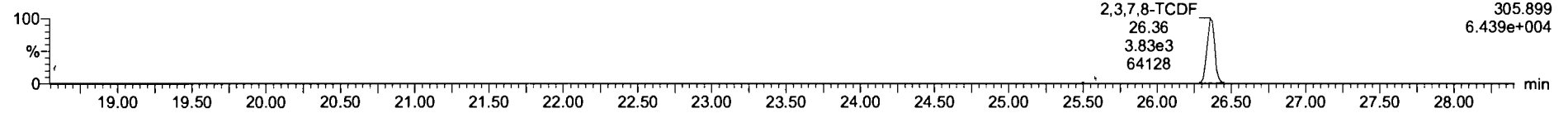
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2,3,7,8-TCDF

210524D2_3

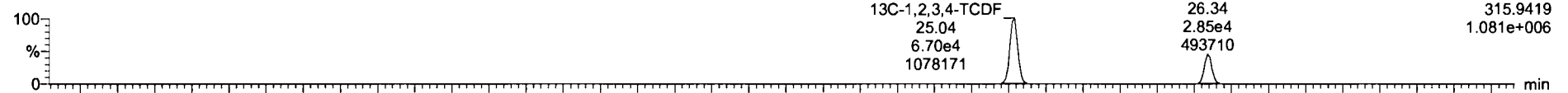


210524D2_3

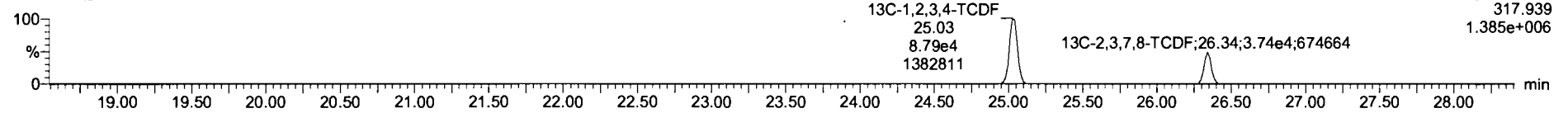


13C-2,3,7,8-TCDF

210524D2_3

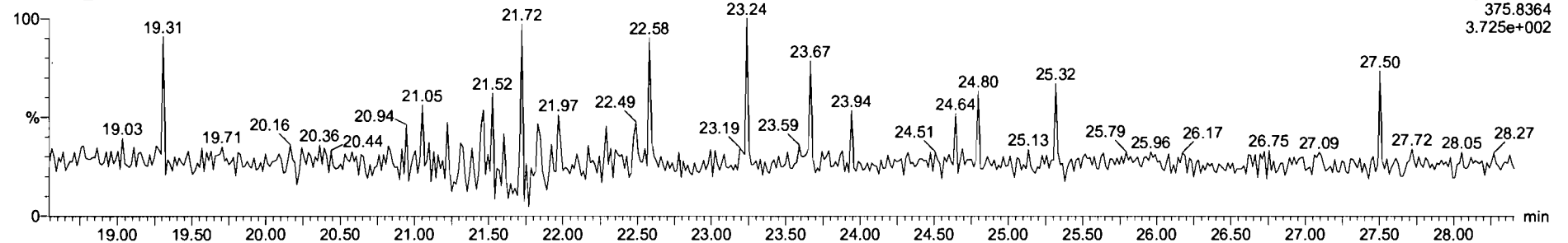


210524D2_3



DPE1

210524D2_3

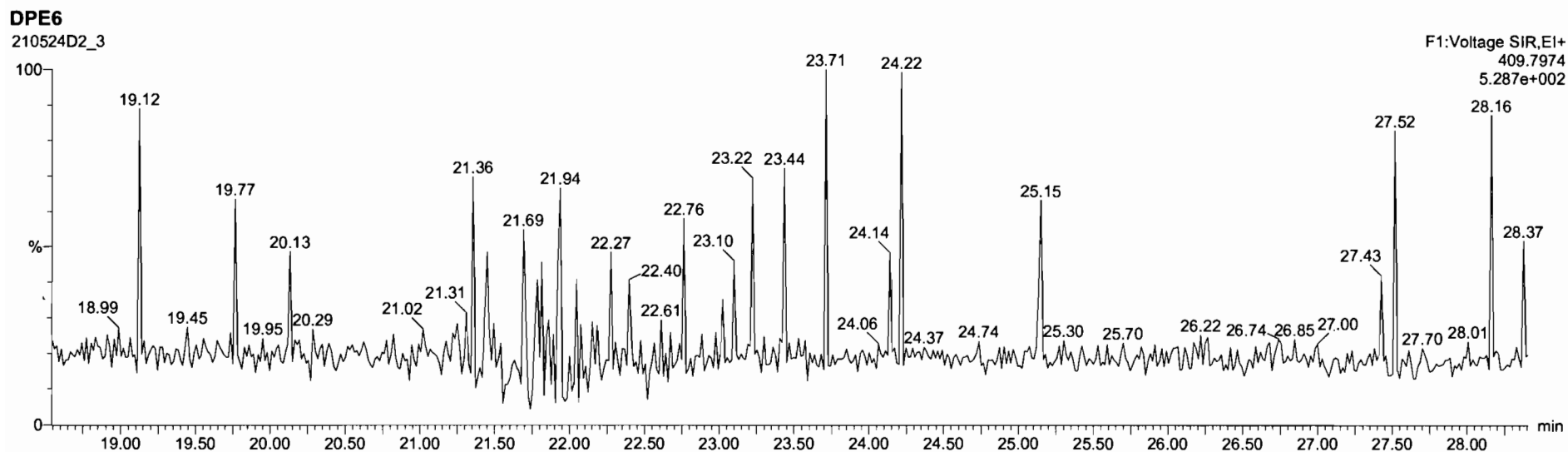
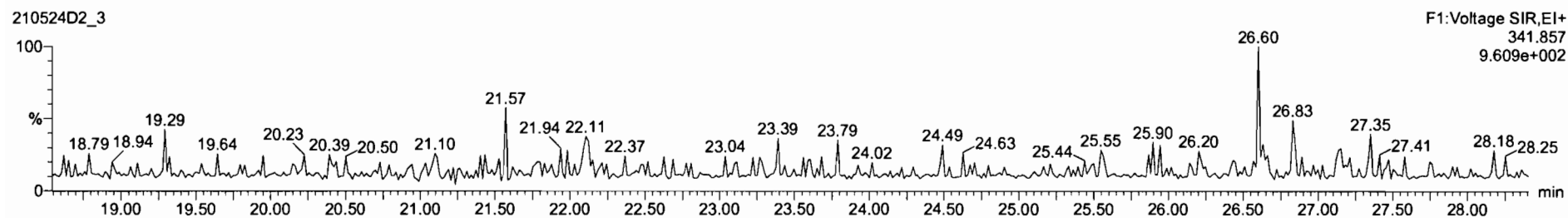
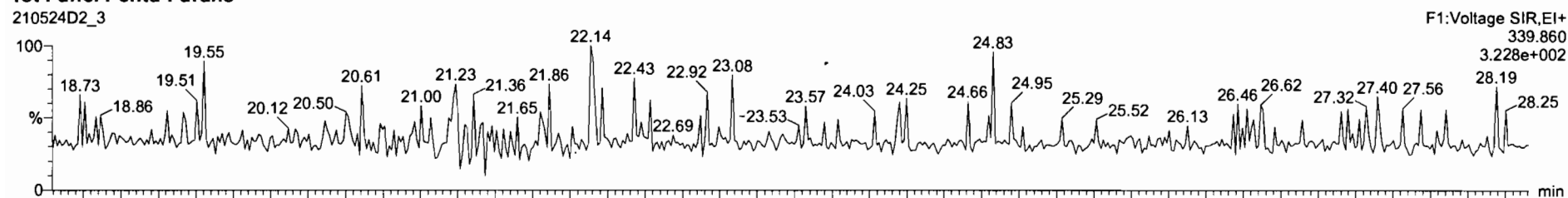


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR

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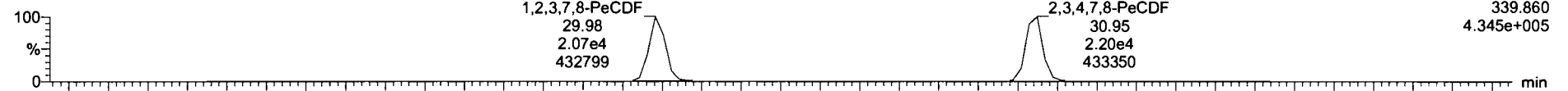
Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

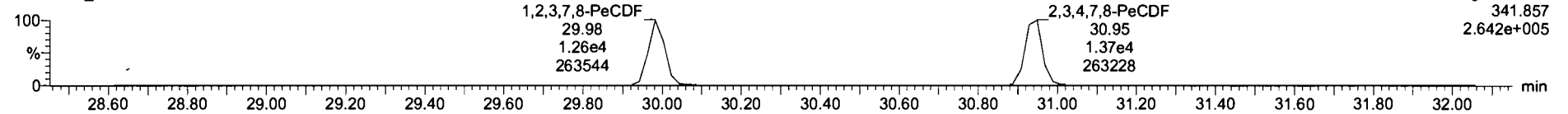
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1,2,3,7,8-PeCDF

210524D2_3

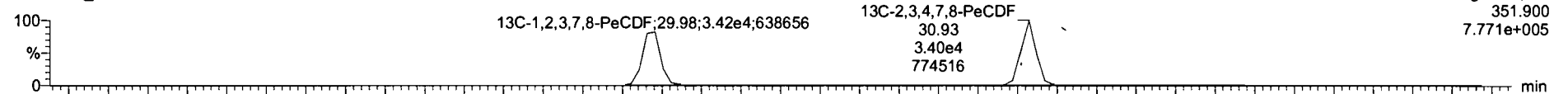


210524D2_3

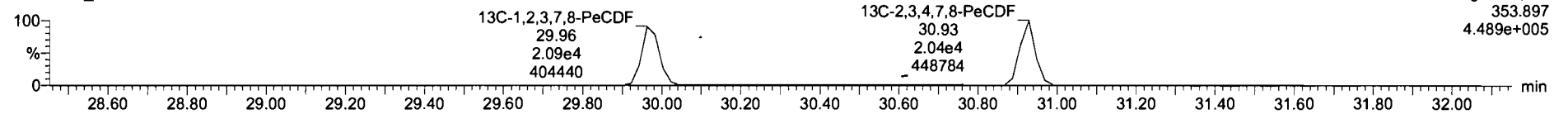


13C-1,2,3,7,8-PeCDF

210524D2_3

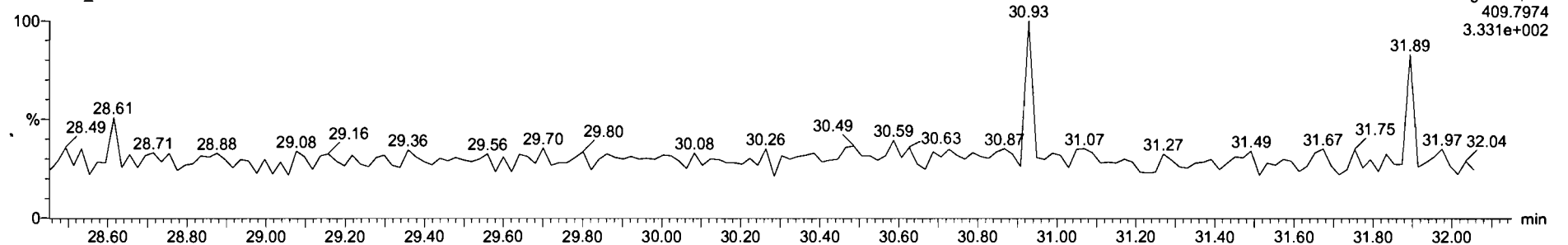


210524D2_3



DPE2

210524D2_3



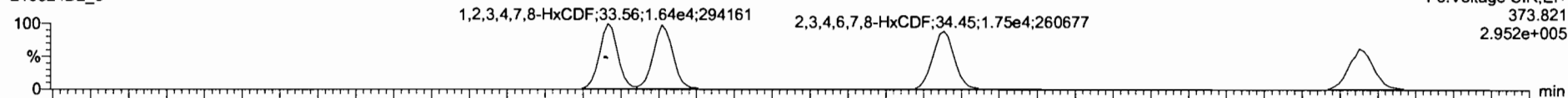
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Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

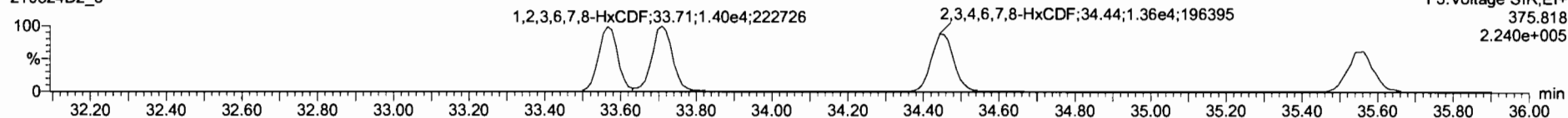
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1,2,3,4,7,8-HxCDF

210524D2_3

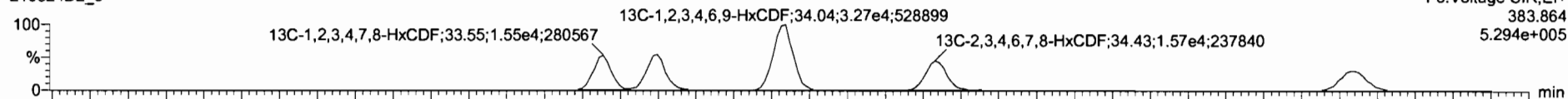


210524D2_3

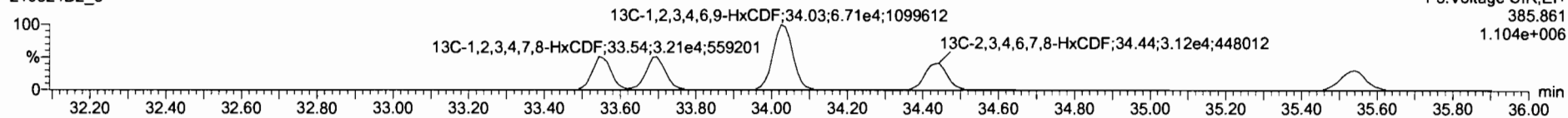


13C-1,2,3,4,7,8-HxCDF

210524D2_3

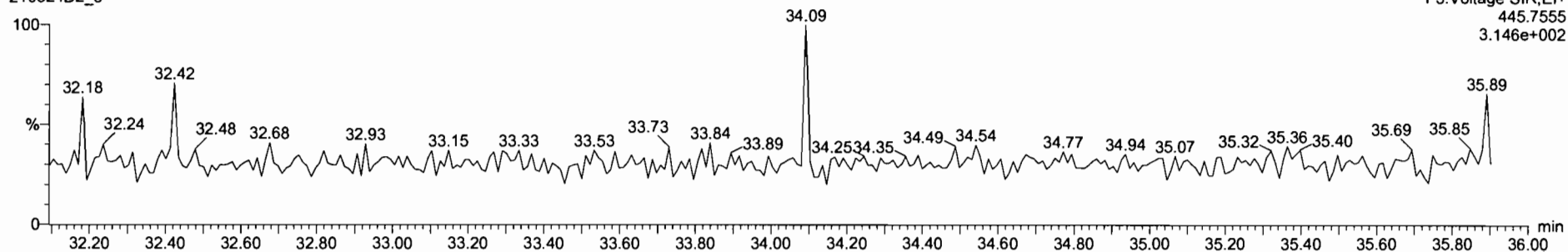


210524D2_3



DPE3

210524D2_3

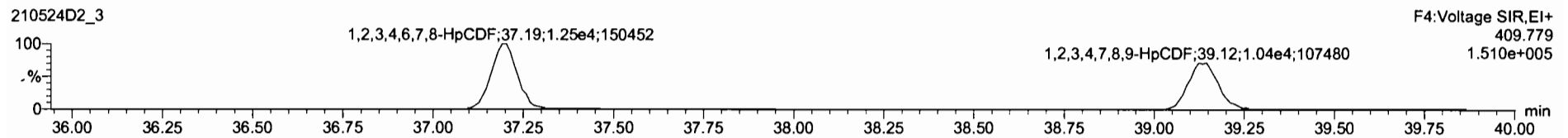
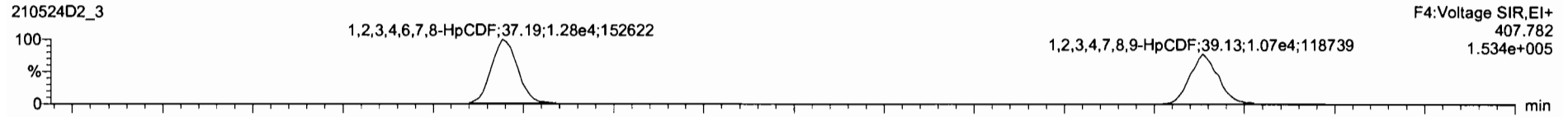


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

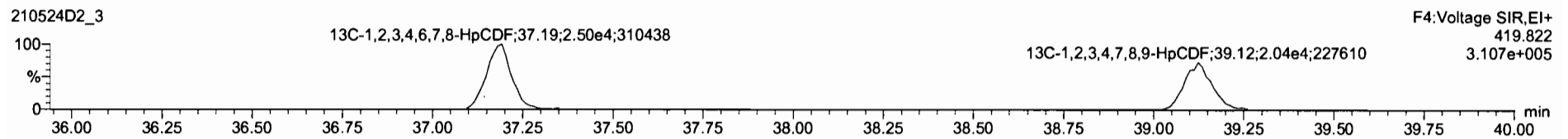
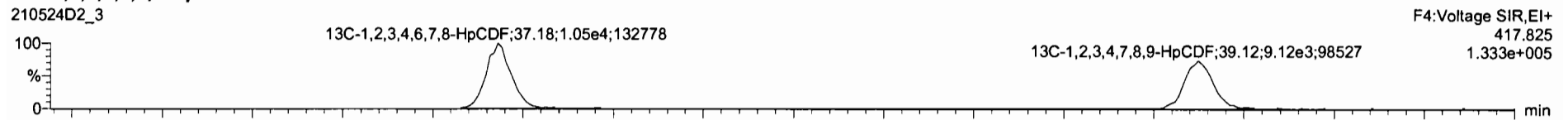
Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR

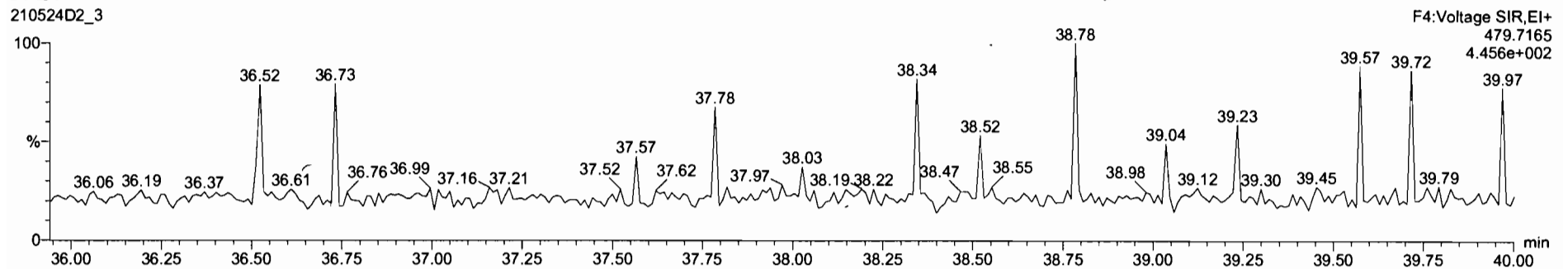
1,2,3,4,6,7,8-HpCDF



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



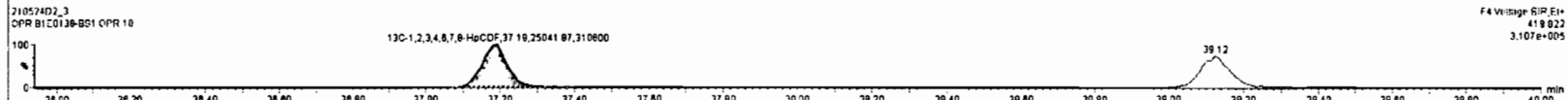
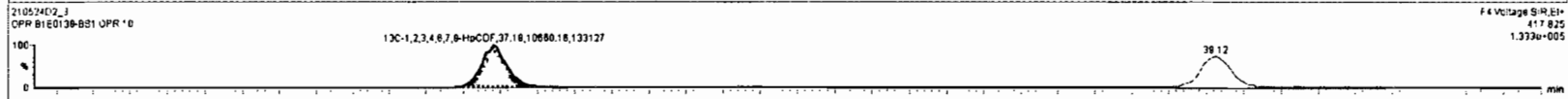
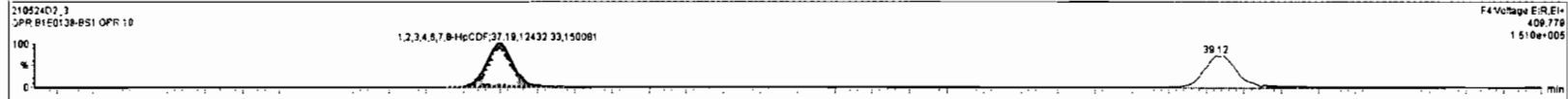
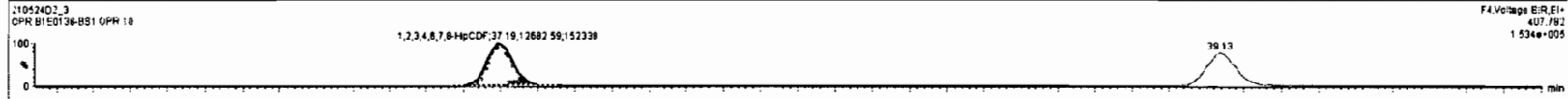
DPE4



21052402_3 - B1E0138-BS1 OPR 10 - OPR

#	Name	Resp	RA	rv	RNF	wt/wst	RT	RTT	Conc	%Plac	DL	EMPC
6	1,2,3,4,6,7,8-HpCDD	1.82e4	1.07	NO	1.07	10.000	38.41	1.000	118		1.40	118
7	OCDD	2.41e4	0.92	NO	1.00	10.000	42.03	1.000	229		5.80	229
8	2,3,7,8-TCDF	6.77e3	0.77	NO	0.86	10.000	26.36	1.001	23.8		0.155	23.8
9	1,2,3,7,8-PeCDF	3.33e4	1.84	NO	0.95	10.000	29.98	1.000	127		0.488	127
10	2,3,4,7,8-PeCDF	3.58e4	1.61	NO	1.04	10.000	30.95	1.001	126		0.370	126
11	1,2,3,4,7,8-HxCDF	2.93e4	1.28	NO	1.04	10.000	33.56	1.000	118		0.610	118
12	1,2,3,6,7,8-HxCDF	3.11e4	1.22	NO	1.07	10.000	33.71	1.000	114		0.595	114
13	2,3,4,6,7,8-HxCDF	3.11e4	1.29	NO	1.12	10.000	34.45	1.001	119		0.885	119
14	1,2,3,7,8-HxCDF	2.54e4	1.27	NO	1.10	10.000	35.55	1.001	114		1.04	114
15	1,2,3,4,6,7,8-HpCDF	2.51e4	1.02	NO	1.18	10.000	37.19	1.000	121		1.04	121
16	1,2,3,4,7,8-HpCDF	2.11e4	1.03	NO	1.19	10.000	38.13	1.000	120		1.42	120

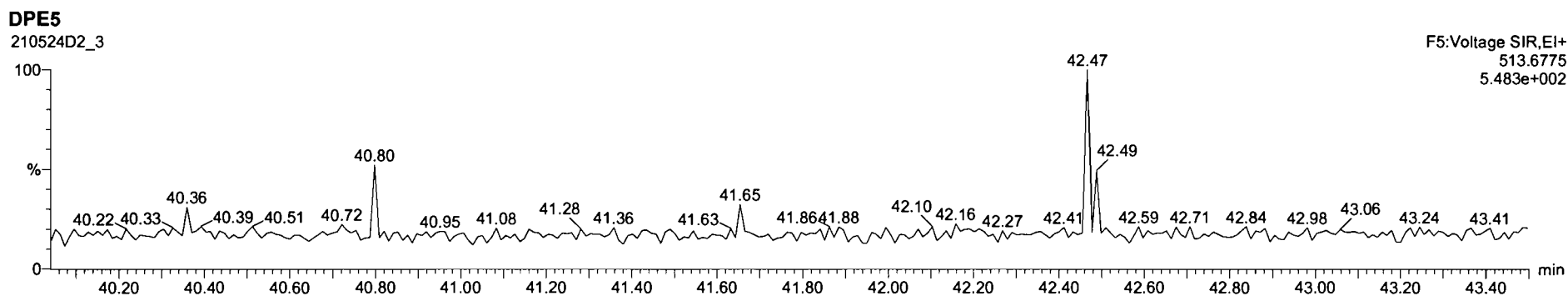
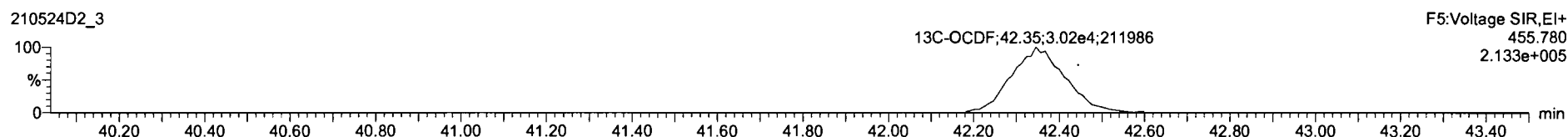
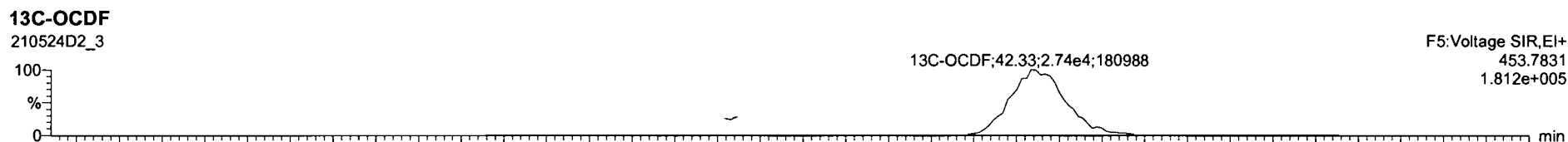
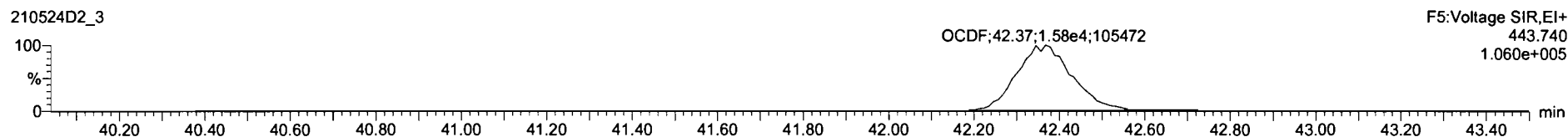
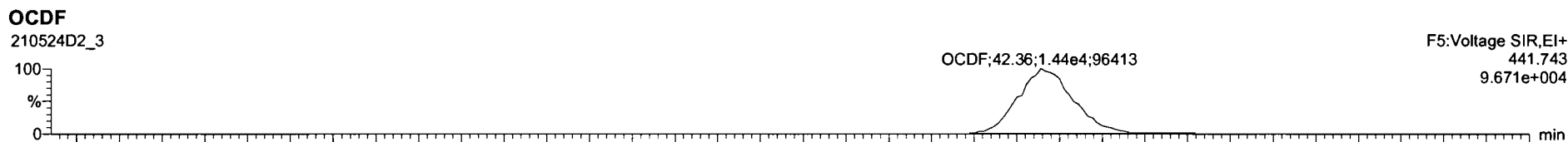
#	Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc
1								



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

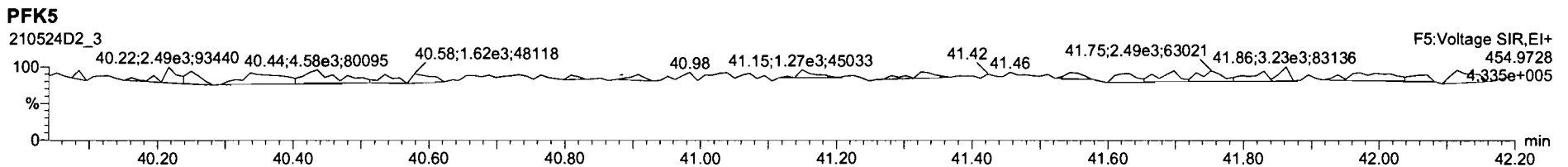
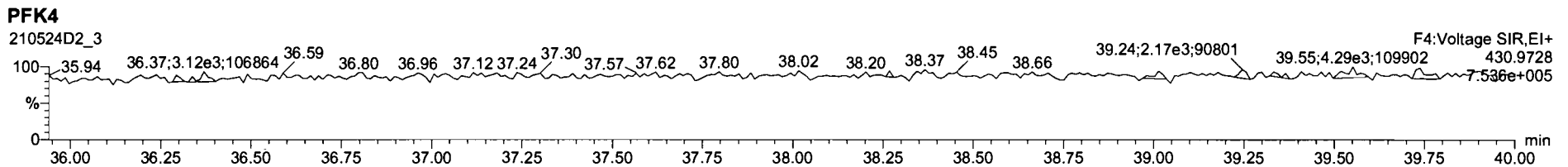
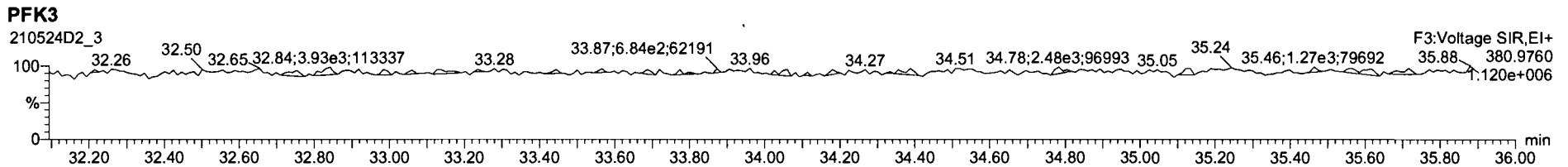
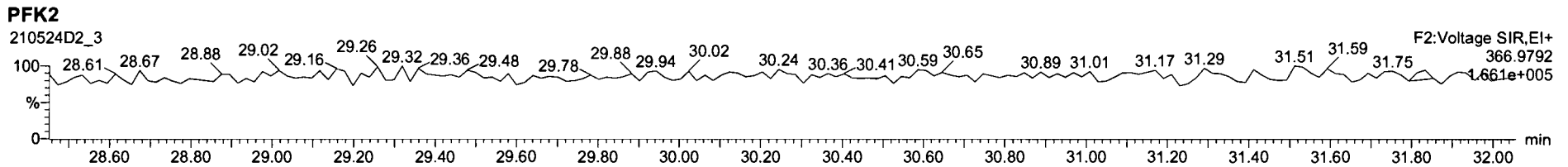
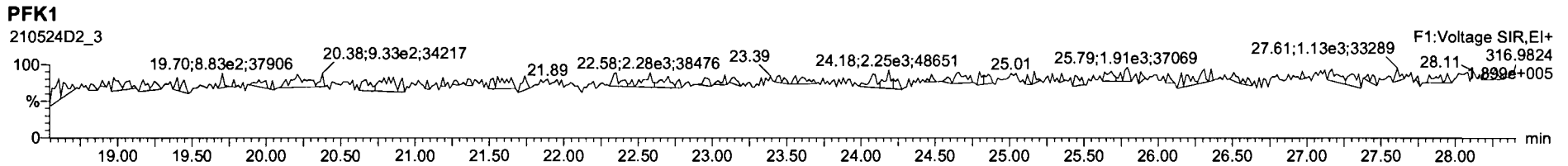
Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-3.qld

Last Altered: Tuesday, May 25, 2021 08:51:44 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:38 Pacific Daylight Time

Name: 210524D2_3, Date: 24-May-2021, Time: 20:43:24, ID: B1E0138-BS1 OPR 10, Description: OPR



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-6.qld

Last Altered: Wednesday, June 09, 2021 10:25:59 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 10:27:54 Pacific Daylight Time

H. 6.9.2021 0706/10/2021

Method: Untitled 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_6, Date: 24-May-2021, Time: 23:03:22, ID: 2105020-01 USMPDI-017SC-A-00-01-210429 19.45, Description: USMPDI-017SC-A-00-01-210429, Task: ST210524D2-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.42e2	0.32	YES	1.05	10.033	26.95	1.001	0.30159		0.115	0.168
2 1,2,3,7,8-PeCDD	6.70e1	1.23	YES	0.881	10.033	31.13	1.001	0.18522		0.276	0.135
3 1,2,3,4,7,8-HxCDD	1.42e2	1.41	NO	1.14	10.033	34.52	1.000	0.36968		0.314	0.370
4 1,2,3,6,7,8-HxCDD	5.21e2	1.30	NO	1.01	10.033	34.65	1.000	1.3938		0.359	1.39
5 1,2,3,7,8,9-HxCDD	2.93e2	1.18	NO	1.02	10.033	34.94	1.000	0.72522		0.318	0.725
6 1,2,3,4,6,7,8-HpCDD	1.04e4	1.08	NO	1.07	10.033	38.30	1.000	29.104		0.607	29.1
7 OCDD	7.54e4	0.90	NO	1.00	10.033	41.86	1.001	311.14		1.12	311
8 2,3,7,8-TCDF	1.53e3	0.72	NO	0.864	10.033	26.37	1.001	2.4571		0.135	2.46
9 1,2,3,7,8-PeCDF	1.60e3	1.69	NO	0.948	10.033	29.98	1.001	2.7992		0.133	2.80
10 2,3,4,7,8-PeCDF	8.94e2	1.65	NO	1.04	10.033	30.93	1.000	1.4086		0.127	1.41
11 1,2,3,4,7,8-HxCDF	2.68e3	1.20	NO	1.04	10.033	33.54	1.000	4.7897		0.172	4.79
12 1,2,3,6,7,8-HxCDF	8.05e2	1.34	NO	1.07	10.033	33.70	1.001	1.3112		0.157	1.31
13 2,3,4,6,7,8-HxCDF	1.43e2	1.22	NO	1.12	10.033	34.42	1.001	0.24043		0.187	0.240
14 1,2,3,7,8,9-HxCDF	1.52e2	1.28	NO	1.10	10.033	35.54	1.001	0.29494		0.213	0.295
15 1,2,3,4,6,7,8-HpCDF	3.11e3	1.00	NO	1.16	10.033	37.13	1.001	6.6651		0.197	6.67
16 1,2,3,4,7,8,9-HpCDF	4.37e2	0.95	NO	1.19	10.033	39.05	1.000	1.0661		0.284	1.07
17 OCDF	5.26e3	0.87	NO	0.909	10.033	42.19	1.001	16.318		0.264	16.3
18 13C-2,3,7,8-TCDD	8.95e4	0.78	NO	1.15	10.033	26.94	1.025	135.25	67.9	0.359	
19 13C-1,2,3,7,8-PeCDD	8.18e4	0.61	NO	0.887	10.033	31.09	1.183	159.65	80.1	0.219	
20 13C-1,2,3,4,7,8-HxCDD	6.70e4	1.28	NO	0.645	10.033	34.51	1.015	144.45	72.5	0.734	
21 13C-1,2,3,6,7,8-HxCDD	7.37e4	1.34	NO	0.717	10.033	34.64	1.018	143.08	71.8	0.661	
22 13C-1,2,3,7,8,9-HxCDD	7.89e4	1.26	NO	0.714	10.033	34.94	1.027	153.61	77.1	0.664	
23 13C-1,2,3,4,6,7,8-HpCDD	6.68e4	1.10	NO	0.583	10.033	38.29	1.126	159.12	79.8	0.975	
24 13C-OCDD	9.64e4	0.89	NO	0.451	10.033	41.84	1.230	297.04	74.5	1.91	
25 13C-2,3,7,8-TCDF	1.43e5	0.76	NO	1.09	10.033	26.36	1.003	120.09	60.2	0.303	
26 13C-1,2,3,7,8-PeCDF	1.20e5	1.69	NO	0.805	10.033	29.96	1.140	136.63	68.5	0.421	
27 13C-2,3,4,7,8-PeCDF	1.22e5	1.67	NO	0.792	10.033	30.93	1.177	140.48	70.5	0.428	
28 13C-1,2,3,4,7,8-HxCDF	1.07e5	0.51	NO	0.997	10.033	33.53	0.986	149.12	74.8	0.625	
29 13C-1,2,3,6,7,8-HxCDF	1.14e5	0.50	NO	1.03	10.033	33.67	0.990	154.01	77.3	0.606	
30 13C-2,3,4,6,7,8-HxCDF	1.06e5	0.48	NO	0.940	10.033	34.39	1.011	156.47	78.5	0.664	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-6.qld

Last Altered: Wednesday, June 09, 2021 10:25:59 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 10:27:54 Pacific Daylight Time

Name: 210524D2_6, Date: 24-May-2021, Time: 23:03:22, ID: 2105020-01 USMPDI-017SC-A-00-01-210429 19.45, Description: USMPDI-017SC-A-00-01-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DU	EMPC
31	13C-1,2,3,7,8,9-HxCDF	9.33e4	0.50	NO	0.852	10.033	35.52	1.044	152.14	76.3	0.732	
32	13C-1,2,3,4,6,7,8-HpCDF	8.03e4	0.43	NO	0.727	10.033	37.10	1.091	153.58	77.0	0.748	
33	13C-1,2,3,4,7,8,9-HpCDF	6.89e4	0.43	NO	0.608	10.033	39.05	1.148	157.51	79.0	0.895	
34	13C-OCDF	1.41e5	0.86	NO	0.631	10.033	42.17	1.240	311.75	78.2	0.528	
35	37Cl-2,3,7,8-TCDD	7.54e4			2.22	10.033	26.95	1.026	58.878	73.8	0.0541	
36	13C-1,2,3,4-TCDD	1.15e5	0.80	NO	1.00	10.033	26.28	1.000	199.34	100	0.411	
37	13C-1,2,3,4-TCDF	2.18e5	0.79	NO	1.00	10.033	25.04	1.000	199.34	100	0.330	
38	13C-1,2,3,4,6,9-HxCDF	1.43e5	0.51	NO	1.00	10.033	34.01	1.000	199.34	100	0.624	
39	Total Tetra-Dioxins				1.05	10.033			1.0765		0.115	1.52
40	Total Penta-Dioxins				0.881	10.033			1.0691		0.276	1.85
41	Total Hexa-Dioxins				1.01	10.033			6.9300		0.344	11.8
42	Total Hepta-Dioxins				1.07	10.033			69.097		0.607	69.1
43	Total Tetra-Furans				0.864	10.033			6.7992		0.135	8.12
44	1st Func. Penta-Furans				0.948	10.033			1.6746		0.0544	1.67
45	Total Penta-Furans				0.948	10.033			7.7327		0.136	8.17
46	Total Hexa-Furans				1.12	10.033			15.096		0.175	15.1
47	Total Hepta-Furans				1.16	10.033			19.784		0.240	19.8

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-6.qld

Last Altered: Wednesday, June 09, 2021 10:25:59 Pacific Daylight Time
 Printed: Wednesday, June 09, 2021 10:27:54 Pacific Daylight Time

Method: Untitled 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_6, Date: 24-May-2021, Time: 23:03:22, ID: 2105020-01 USMPDI-017SC-A-00-01-210429 19.45, Description: USMPDI-017SC-A-00-01-210429, Task: ST210524D2-1

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Dioxins	23.80	1.187e3	1.438e3	7.431e1	7.315e1	1.02	YES	0.000e0	0.00000	0.27534	0.115
2 Total Tetra-Dioxins	26.71	4.712e3	4.686e3	2.188e2	2.873e2	0.76	NO	5.062e2	1.0765	1.0765	0.115
3 2,3,7,8-TCDD	26.95	1.594e3	2.288e3	3.427e1	1.075e2	0.32	YES	1.418e2	0.00000	0.16755	0.115

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Dioxins	29.08	1.701e3	2.703e3	9.819e1	1.522e2	0.65	NO	2.504e2	0.69264	0.69264	0.276
2 Total Penta-Dioxins	29.52	1.039e3	2.772e3	5.729e1	1.754e2	0.33	YES	0.000e0	0.00000	0.41009	0.276
3 Total Penta-Dioxins	30.14	6.470e2	1.007e3	5.672e1	7.937e1	0.71	NO	1.361e2	0.37649	0.37649	0.276
4 Total Penta-Dioxins	30.39	6.880e2	1.063e3	3.306e1	6.870e1	0.48	YES	0.000e0	0.00000	0.23661	0.276
5 1,2,3,7,8-PeCDD	31.13	7.990e2	6.700e2	3.694e1	3.001e1	1.23	YES	6.695e1	0.00000	0.13533	0.276

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Dioxins	32.76	1.696e4	1.190e4	8.209e2	6.187e2	1.33	NO	1.440e3	3.8770	3.8770	0.344
2 Total Hexa-Dioxins	33.39	1.946e3	1.596e3	1.118e2	9.773e1	1.14	NO	2.095e2	0.56422	0.56422	0.344
3 Total Hexa-Dioxins	33.70	1.372e4	9.117e3	1.096e3	7.489e2	1.46	YES	0.000e0	0.00000	4.5181	0.344
4 Total Hexa-Dioxins	33.80	1.403e3	1.362e3	7.511e1	6.800e1	1.10	NO	0.000e0	0.00000	0.38543	0.344
5 1,2,3,4,7,8-HxCDD	34.52	1.300e3	1.235e3	8.319e1	5.892e1	1.41	NO	1.421e2	0.36968	0.36968	0.314
6 1,2,3,6,7,8-HxCDD	34.65	4.924e3	3.279e3	2.951e2	2.261e2	1.30	NO	5.212e2	1.3938	1.3938	0.359
7 1,2,3,7,8,9-HxCDD	34.94	3.165e3	2.623e3	1.584e2	1.341e2	1.18	NO	2.926e2	0.72522	0.72522	0.318

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hepta-Dioxins	37.41	1.160e5	1.120e5	7.222e3	7.042e3	1.03	NO	1.426e4	39.993	39.993	0.607
2 1,2,3,4,6,7,8-HpCDD	38.30	9.240e4	7.930e4	5.396e3	4.984e3	1.08	NO	1.038e4	29.104	29.104	0.607

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Dataset: U:\VG7.PRO\Results\210524D2\210524D2-6.qld

Last Altered: Wednesday, June 09, 2021 10:25:59 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 10:27:54 Pacific Daylight Time

Name: 210524D2_6, Date: 24-May-2021, Time: 23:03:22, ID: 2105020-01 USMPDI-017SC-A-00-01-210429 19.45, Description: USMPDI-017SC-A-00-01-210429, Task: ST210524D2-1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Furans	21.97	6.310e2	5.280e2	4.637e1	4.107e1	1.13	YES	0.000e0	0.00000	0.11693	0.135
2	Total Tetra-Furans	22.44	8.670e2	6.420e2	3.345e1	3.851e1	0.87	NO	7.196e1	0.11575	0.11575	0.135
3	Total Tetra-Furans	23.13	2.669e3	4.551e3	2.043e2	3.038e2	0.67	NO	5.081e2	0.81727	0.81727	0.135
4	Total Tetra-Furans	23.83	2.258e3	3.584e3	1.961e2	2.737e2	0.72	NO	4.698e2	0.75569	0.75569	0.135
5	Total Tetra-Furans	24.25	1.387e3	2.009e3	7.017e1	1.441e2	0.49	YES	0.000e0	0.00000	0.25945	0.135
6	Total Tetra-Furans	24.49	9.150e2	1.547e3	4.614e1	8.210e1	0.56	YES	0.000e0	0.00000	0.17060	0.135
7	Total Tetra-Furans	25.12	2.127e3	1.671e3	2.129e2	2.174e2	0.98	YES	0.000e0	0.00000	0.61890	0.135
8	Total Tetra-Furans	25.51	7.756e3	1.024e4	4.923e2	6.928e2	0.71	NO	1.185e3	1.9063	1.9063	0.135
9	Total Tetra-Furans	26.26	2.472e3	3.086e3	1.368e2	1.638e2	0.84	NO	3.006e2	0.48351	0.48351	0.135
10	2,3,7,8-TCDF	26.37	1.091e4	1.459e4	6.379e2	8.896e2	0.72	NO	1.527e3	2.4571	2.4571	0.135
11	Total Tetra-Furans	26.65	9.100e2	1.468e3	6.940e1	9.448e1	0.73	NO	1.639e2	0.26360	0.26360	0.135
12	Total Tetra-Furans	28.01	6.350e2	1.198e3	4.213e1	6.603e1	0.64	YES	0.000e0	0.00000	0.15577	0.135

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1st Func. Penta-Furans	27.64	9.625e3	5.953e3	5.928e2	3.725e2	1.59	NO	9.653e2	1.6746	1.6746	0.0544

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Furans	28.96	1.601e3	5.200e2	1.082e2	4.259e1	2.54	YES	0.000e0	0.00000	0.18844	0.136
2	Total Penta-Furans	29.10	9.193e3	7.421e3	6.938e2	4.188e2	1.66	NO	1.113e3	1.9302	1.9302	0.136
3	Total Penta-Furans	29.66	2.460e3	1.927e3	1.830e2	1.299e2	1.41	NO	3.129e2	0.54286	0.54286	0.136
4	Total Penta-Furans	29.80	2.341e3	1.194e3	1.229e2	5.535e1	2.22	YES	0.000e0	0.00000	0.24486	0.136
5	1,2,3,7,8-PeCDF	29.98	1.832e4	1.260e4	1.009e3	5.952e2	1.69	NO	1.604e3	2.7992	2.7992	0.133
6	Total Penta-Furans	30.20	6.631e3	4.299e3	3.680e2	2.383e2	1.54	NO	6.063e2	1.0519	1.0519	0.136
7	2,3,4,7,8-PeCDF	30.93	9.722e3	5.644e3	5.560e2	3.375e2	1.65	NO	8.935e2	1.4086	1.4086	0.127

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-6.qld

Last Altered: Wednesday, June 09, 2021 10:25:59 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 10:27:54 Pacific Daylight Time

Name: 210524D2_6, Date: 24-May-2021, Time: 23:03:22, ID: 2105020-01 USMPDI-017SC-A-00-01-210429 19.45, Description: USMPDI-017SC-A-00-01-210429, Task: ST210524D2-1

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.20	7.166e3	5.262e3	3.225e2	2.431e2	1.33	NO	5.656e2	0.96136	0.96136	0.175
2	Total Hexa-Furans	32.38	1.866e4	1.632e4	1.006e3	7.600e2	1.32	NO	1.766e3	3.0009	3.0009	0.175
3	Total Hexa-Furans	33.05	2.321e4	1.827e4	1.323e3	9.736e2	1.36	NO	2.297e3	3.9042	3.9042	0.175
4	1,2,3,4,7,8-HxCDF	33.54	2.986e4	2.216e4	1.463e3	1.218e3	1.20	NO	2.681e3	4.7897	4.7897	0.172
5	1,2,3,6,7,8-HxCDF	33.70	7.785e3	6.941e3	4.606e2	3.445e2	1.34	NO	8.051e2	1.3112	1.3112	0.157
6	2,3,4,6,7,8-HxCDF	34.42	2.595e3	2.404e3	7.825e1	6.426e1	1.22	NO	1.425e2	0.24043	0.24043	0.187
7	Total Hexa-Furans	34.43	3.198e3	2.404e3	1.074e2	8.422e1	1.28	NO	1.916e2	0.32571	0.32571	0.175
8	1,2,3,7,8,9-HxCDF	35.54	2.305e3	1.928e3	8.526e1	6.637e1	1.28	NO	1.516e2	0.29494	0.29494	0.213
9	Total Hexa-Furans	35.56	2.593e3	2.041e3	8.866e1	6.898e1	1.29	NO	1.576e2	0.26792	0.26792	0.175

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.13	2.255e4	2.423e4	1.556e3	1.558e3	1.00	NO	3.115e3	6.6651	6.6651	0.197
2	Total Hepta-Furans	37.70	3.715e4	3.964e4	2.664e3	2.568e3	1.04	NO	5.232e3	12.053	12.053	0.240
3	1,2,3,4,7,8,9-HpCDF	39.05	3.019e3	2.682e3	2.134e2	2.239e2	0.95	NO	4.372e2	1.0661	1.0661	0.284

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-6.qld

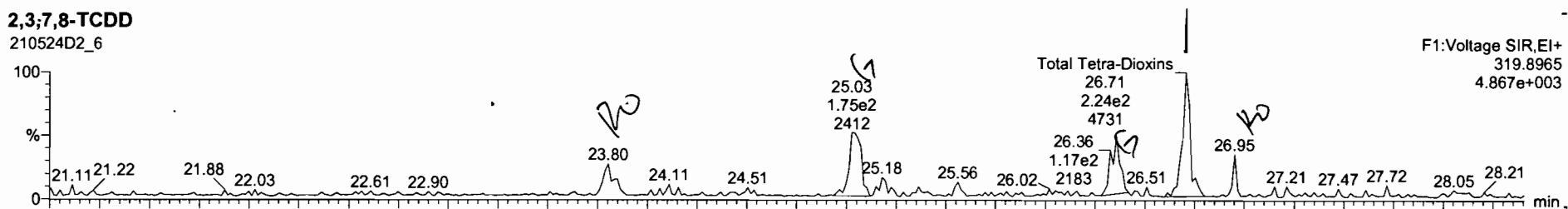
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Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

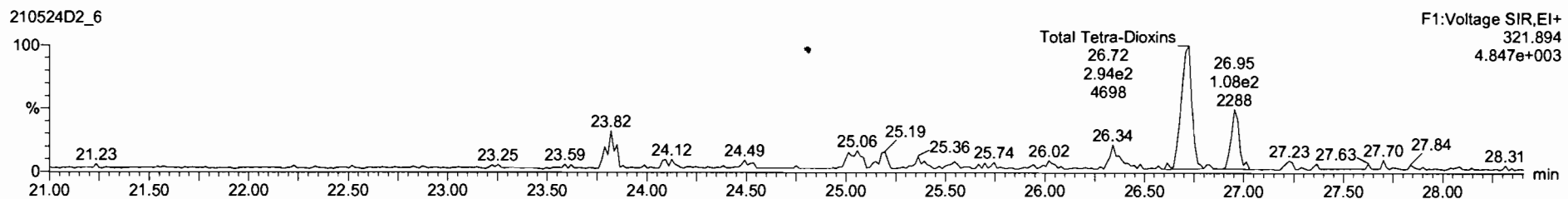
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2,3,7,8-TCDD

210524D2_6



210524D2_6

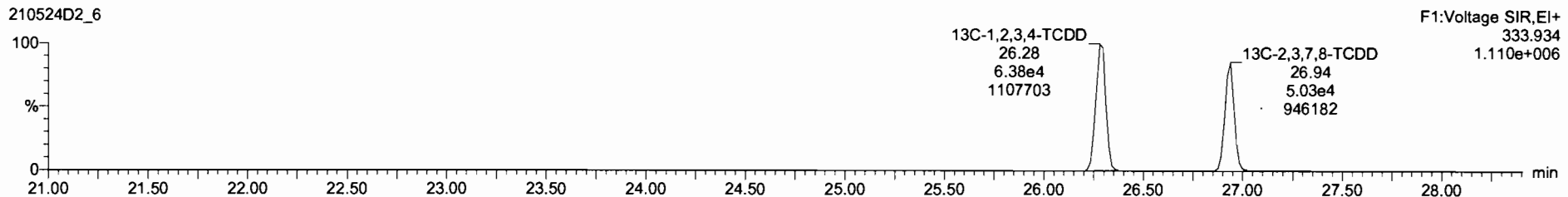


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210524D2_6



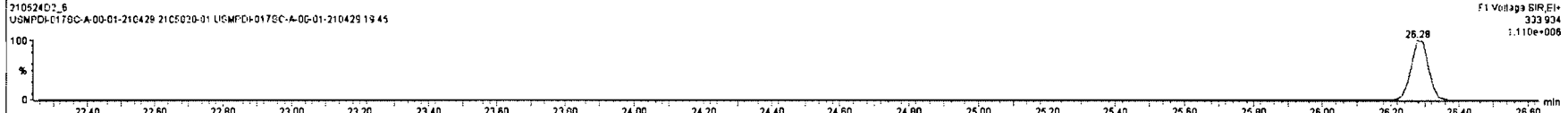
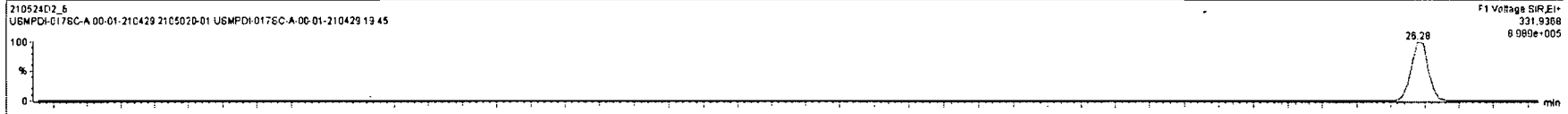
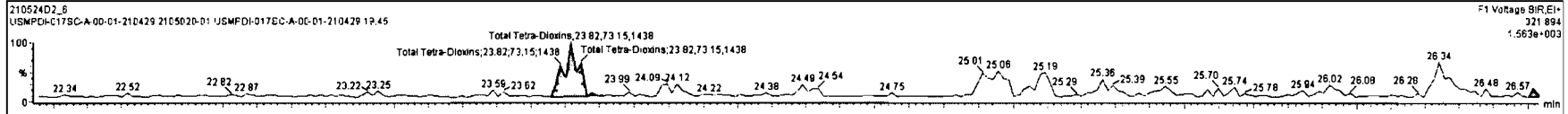
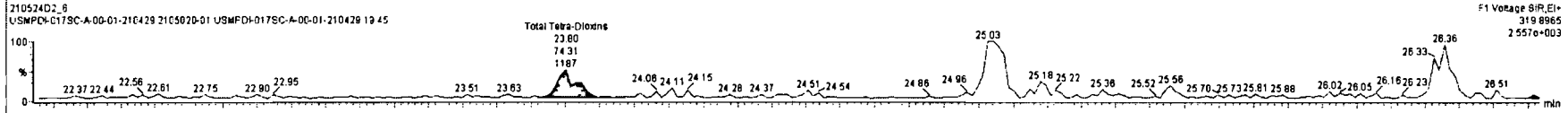
210524D2_6



21052402_6_2105020-01 USMPC1017SC-A-00-01-210429 19 45 - USMPC1017SC-A-00-01-210429

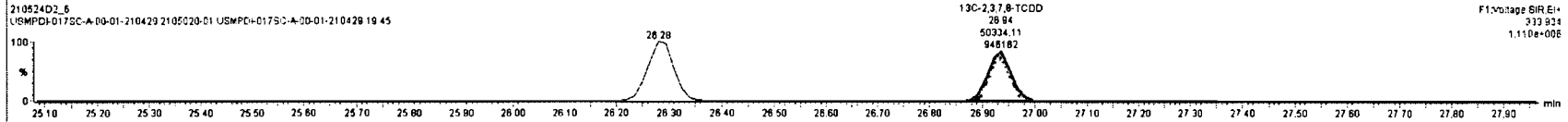
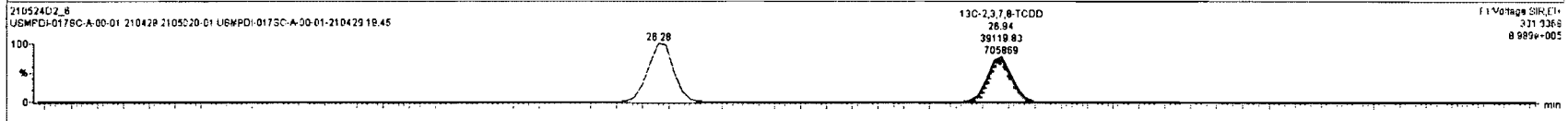
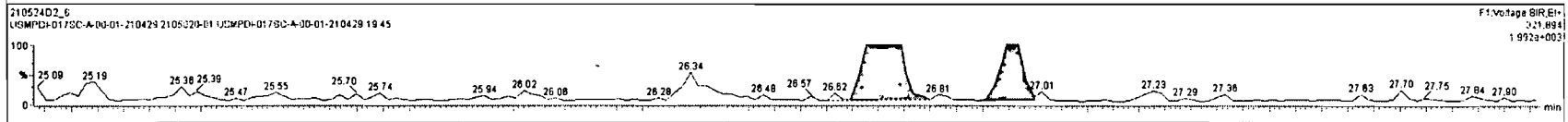
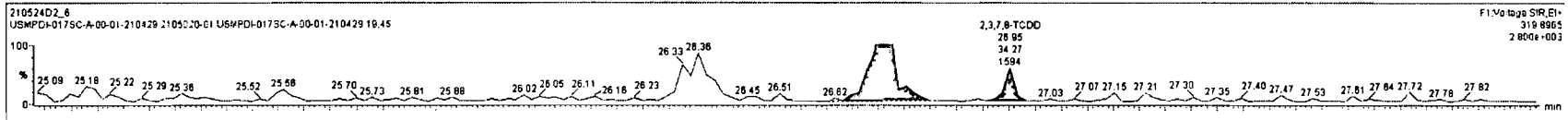
Name	Resp	RA	n/y	RRF	wtAvd	RT	RRT	Conc.	%Rec	DL	EMPC
35 3TC-2,3,7,8-TCDD	7.54e4			2.22	10.033	26.95	1.028	58.9	73.8	0.0541	
36 13C-1,2,3,4-TCDD	1.15e5	0.80	NO	1.00	10.033	26.28	1.000	199	100	0.411	
37 13C-1,2,3,4-TCDF	2.10e5	0.79	NO	1.00	10.033	25.04	1.000	199	100	0.330	
38 13C-1,2,3,4,6,8-HxCDF	1.43e5	0.51	NO	1.00	10.033	34.01	1.000	199	100	0.824	
Total Tetra-Dioxins					1.05	10.033			1.10	0.115	1.55
Total Penta-Dioxins					0.88	10.033		0.000	0.0891	1.48	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.80	7.431e1	7.315e1	1.02	YES	0.27534	0.00000
2 Total Tetra-Dioxins	26.71	2.243e2	2.942e2	0.78	NO	1.1027	1.1027
3 2,3,7,8-TCDD	26.95	3.427e1	9.445e1	0.36	YES	0.16755	0.00000



Name	Resp	RA	nly	RPF	ndAval	RT	RRT	Conc.	%Rec	DL	EMPC
23	13C-1,2,3,4,6,7,8-HxCDD	6.68e4	1.10	NO	0.58	10.033	36.20	1.126	159	79.9	0.975
24	13C-OCDD	9.64e4	0.89	NO	0.45	10.092	41.84	1.230	297	74.5	1.91
25	13C-2,3,7,8-TCDF	1.43e5	0.76	NO	1.09	10.033	26.36	1.003	120	60.2	0.300
26	13C-1,2,3,7,8-PeCDF	1.20e5	1.88	NO	0.80	10.033	29.96	1.140	137	68.5	0.421
27	13C-2,3,4,7,8-PeCDF	1.22e5	1.67	NO	0.78	10.033	30.83	1.177	140	70.5	0.428
28	13C-1,2,3,4,7,8-HxCDF	1.07e5	0.51	NO	1.00	10.033	33.53	0.986	149	74.8	0.625

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	23.80	7.431e1	7.315e1	1.02	YES	0.27534	0.00000
2 Total Tetra-Dioxins	26.71	2.108e2	2.873e2	0.76	NO	1.0766	1.0785
3 2,3,7,8-TCDD	26.95	3.427e1	1.009e2	0.34	YES	0.16755	0.00000

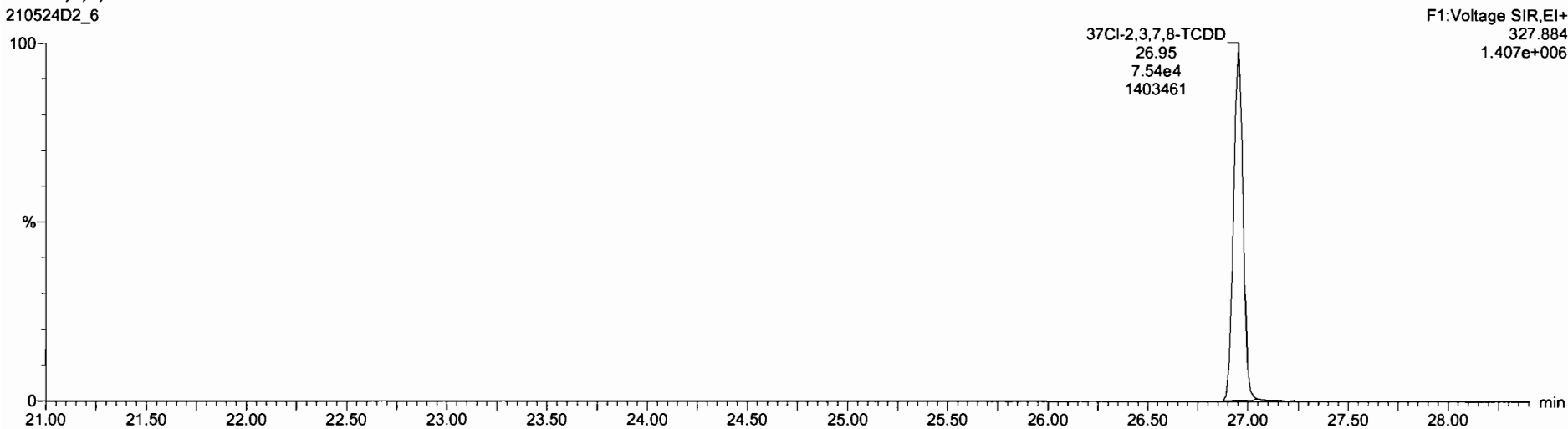


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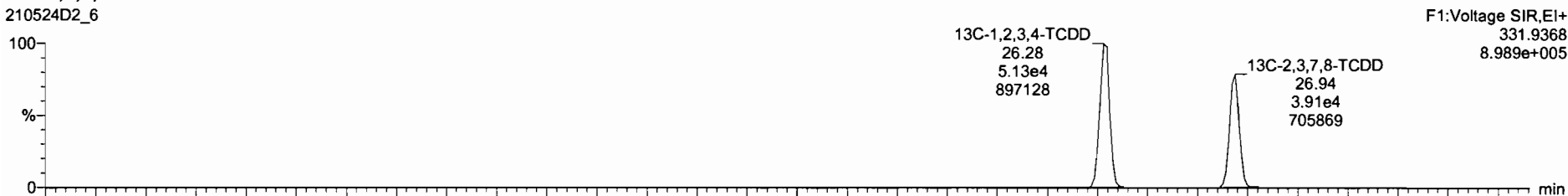
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Name: 210524D2_6, Date: 24-May-2021, Time: 23:03:22, ID: 2105020-01 USMPDI-017SC-A-00-01-210429 19.45, Description: USMPDI-017SC-A-00-01-210429

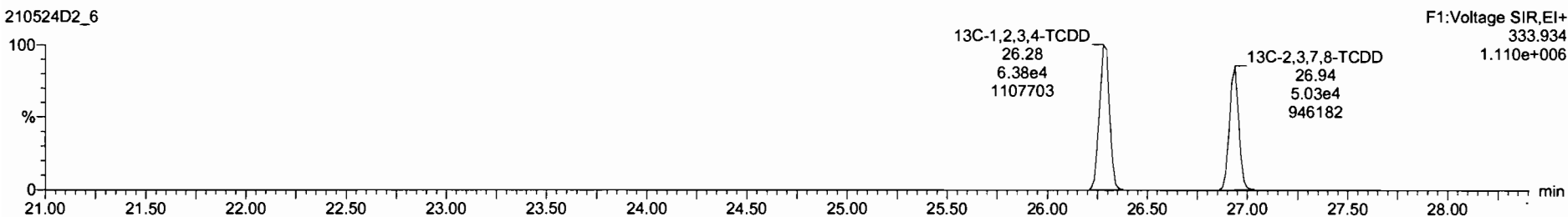
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210524D2_6



13C-1,2,3,4-TCDD
210524D2_6



210524D2_6



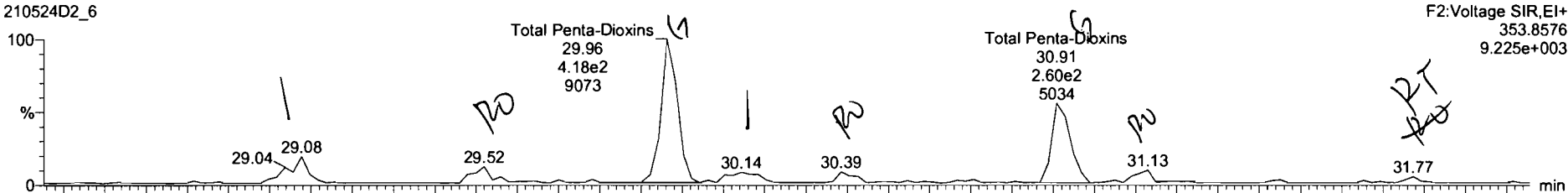
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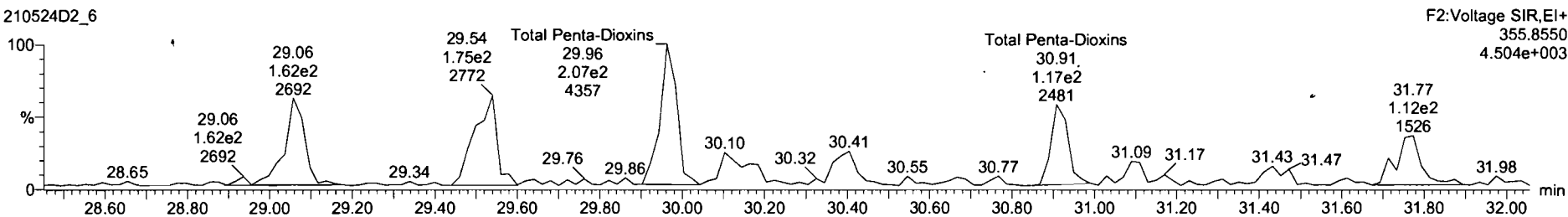
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1,2,3,7,8-PeCDD

210524D2_6



210524D2_6

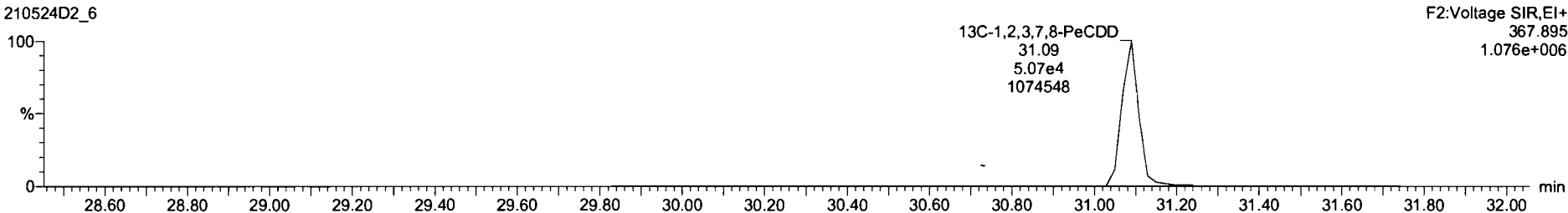


13C-1,2,3,7,8-PeCDD

210524D2_6



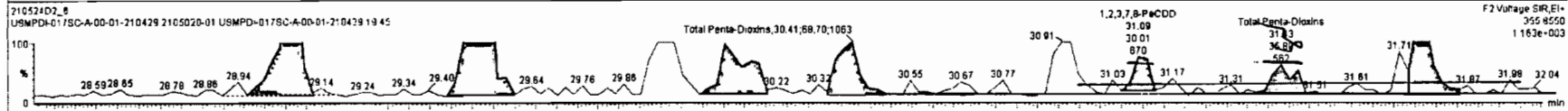
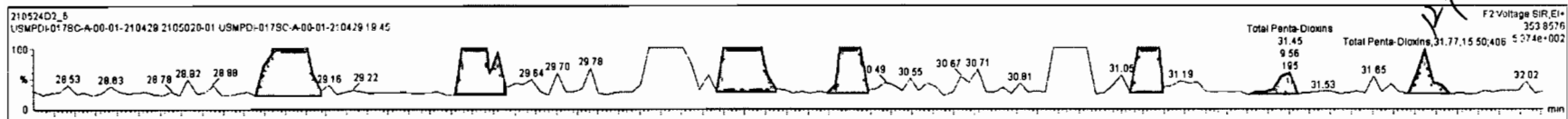
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210524D2_6 - 2105020-01 USMPD-017SC-A-00-01-210429 19 4E - USMPD4-017SC-A-00-01-210429

SL	Name	Resp	RA	n/y	RRF	wtAvd	RT	RRT	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	1.43e5	0.51	NO	1.00	10.033	34.01	1.000	199	100	0.624	
39	Total Tetra-Dioxins				1.05	10.033			1.08		0.115	1.52
40	Total Penta-Dioxins				0.88	10.033			1.07		0.278	2.03
41	Total Hexa-Dioxins				1.01	10.033			5.80		0.344	10.0
42	Total Hepta-Dioxins				1.07	10.033			89.1		0.607	69.1
43	Total Tetra-Furans				0.86	10.033			5.86		0.135	6.35

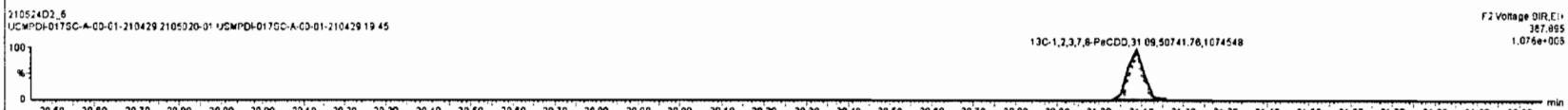
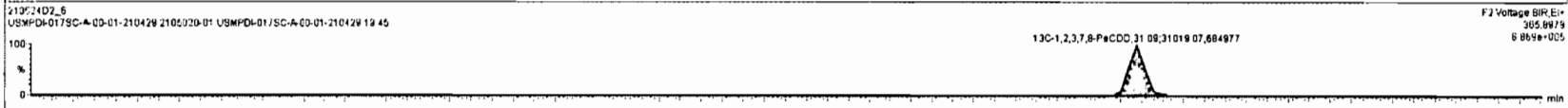
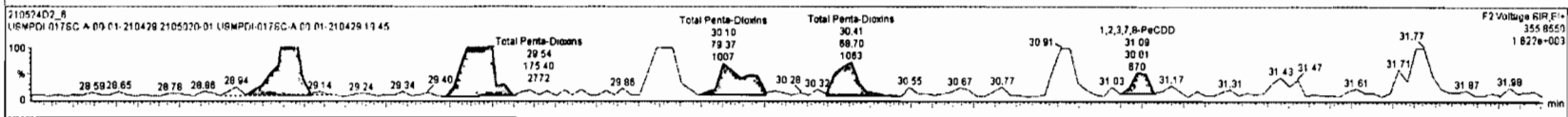
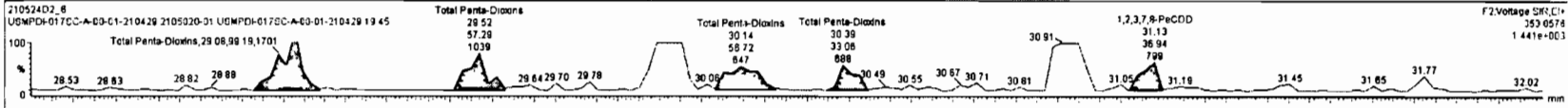
SL	Name	RT	wt Resp	n2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	29.08	8.819e1	1.522e2	0.65	NO	0.62364	0.62364
2	Total Penta-Dioxins	29.23	5.720e1	1.754e2	0.33	YES	0.41028	0.00000
3	Total Penta-Dioxins	30.14	5.672e1	7.947e1	0.71	NO	0.37677	0.37677
4	Total Penta-Dioxins	30.39	3.305e1	6.670e1	0.48	YES	0.23961	0.00000
5	1,2,3,7,8-PeCDD	31.13	3.694e1	3.001e1	1.23	YES	0.13533	0.00000
6	Total Penta-Dioxins	31.45	8.564e0	3.590e1	0.27	YES	0.068456	0.00000
7	Total Penta-Dioxins	31.77	1.550e1	8.563e1	0.18	YES	0.11096	0.00000



21052402_6 - 2105020-01 USMPCD-017SC-A-00-01-210429 19 45 - USMPCD-017SC-A (00-01-2104 29)

Name	Resp	RA	n/y	RFV	wt/Vol	RT	PRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			1.05	10.033			1.08	0.115	1.52	
40	Total Penta-Dioxins			0.88	10.033			1.07	0.276	1.85	
41	Total Hexa-Dioxins			1.01	10.033			0.93	0.344	11.8	
42	Total Hepta-Dioxins			1.07	10.033			0.91	0.607	88.1	
43	Total Tetra-Furans			0.86	10.033			0.80	0.135	0.12	
44	1st Func. Penta-Furans			0.95	10.033			1.67	0.0544	1.67	

Name	RT ±	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.08	0.819e1	1.522e2	0.85	NO	0.68264
2	Total Penta-Dioxins	29.52	5.729e1	1.754e2	0.33	YES	0.41009
3	Total Penta-Dioxins	30.14	5.872e1	7.837e1	0.71	NO	0.37649
4	Total Penta-Dioxins	30.39	3.306e1	6.870e1	0.48	YES	0.23681
5	1,2,3,7,8-PeCDD	31.13	3.894e1	3.001e1	1.23	YES	0.13533

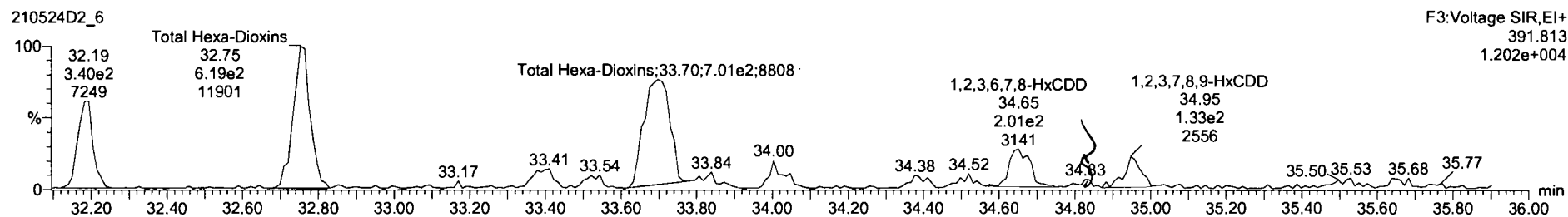
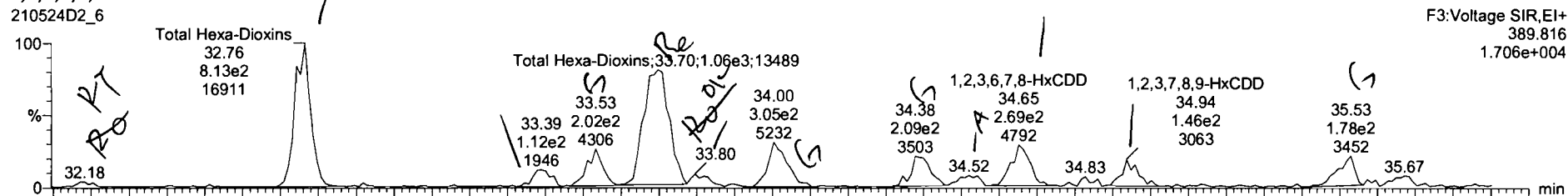


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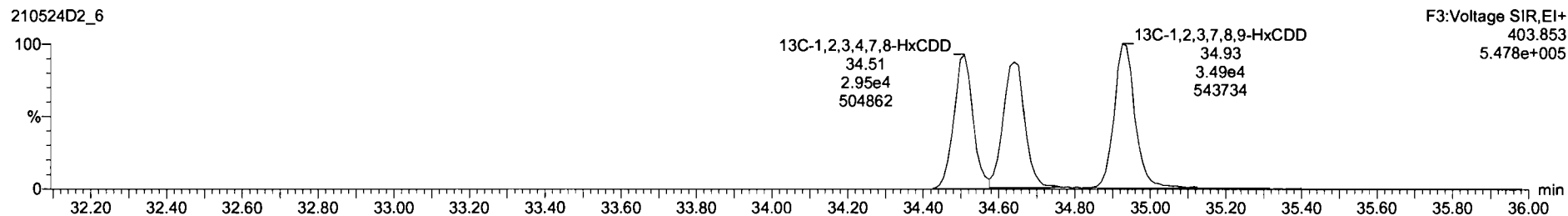
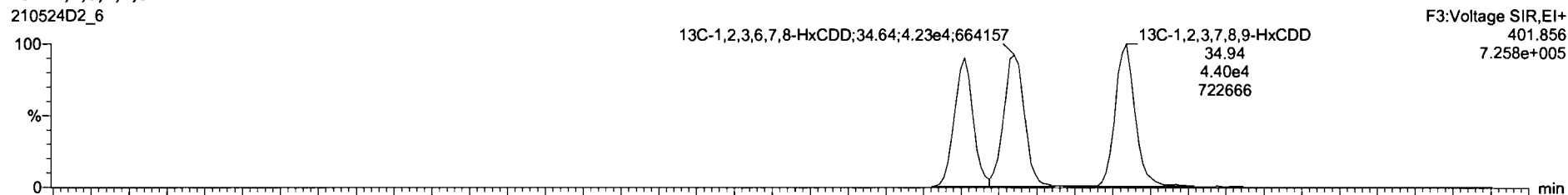
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Name: 210524D2_6, Date: 24-May-2021, Time: 23:03:22, ID: 2105020-01 USMPDI-017SC-A-00-01-210429 19.45, Description: USMPDI-017SC-A-00-01-210429

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

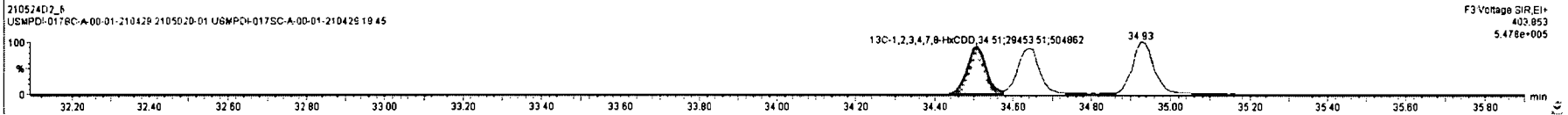
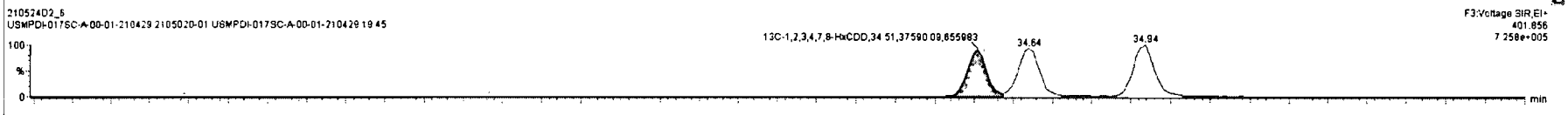
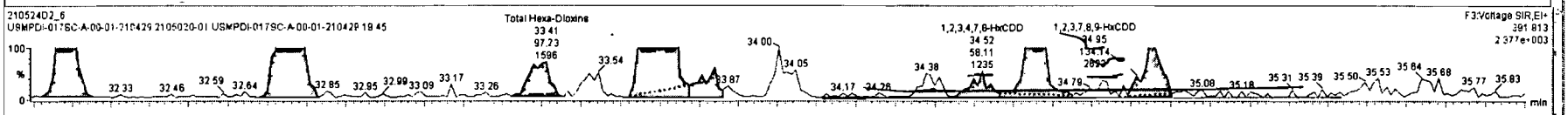
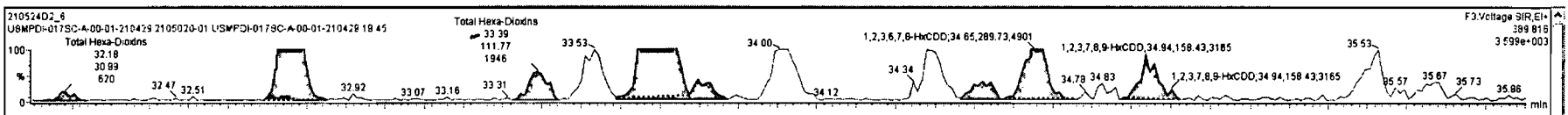


13C-1,2,3,4,7,8-HxCDD



Name	Resp	RA	n/y	RRF	w/nd	RT	RRT	Conc.	%Rec	DL	EMPC
13C-1,2,3,7,8-PeCDF	1.20e5	1.69	NO	0.80	10.033	29.96	1.140	137	68.5	0.421	
13C-2,3,4,7,8-PeCDF	1.22e5	1.67	NO	0.79	10.033	30.93	1.177	140	70.5	0.426	
13C-1,2,3,4,7,8-HxCDF	1.07e5	0.51	NO	1.00	10.033	33.53	0.988	149	74.8	0.625	
13C-1,2,3,6,7,8-HxCDF	1.14e5	0.50	NO	1.03	10.033	33.87	0.930	154	77.3	0.808	
13C-2,3,4,6,7,8-HxCDF	1.06e5	0.48	NO	0.94	10.033	34.36	1.011	156	78.5	0.864	
13C-1,2,3,7,8,9-HxCDF	9.33e4	0.50	NO	0.85	10.033	35.52	1.044	152	76.3	0.732	

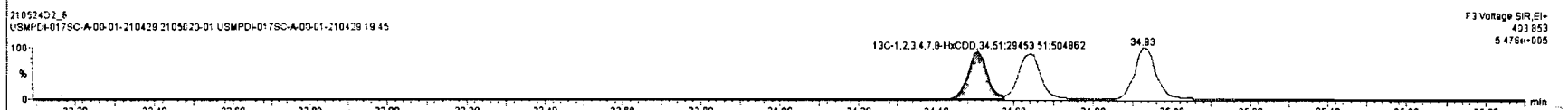
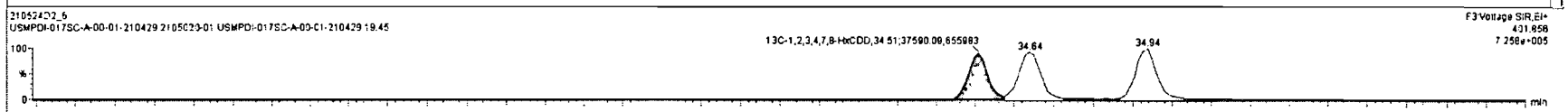
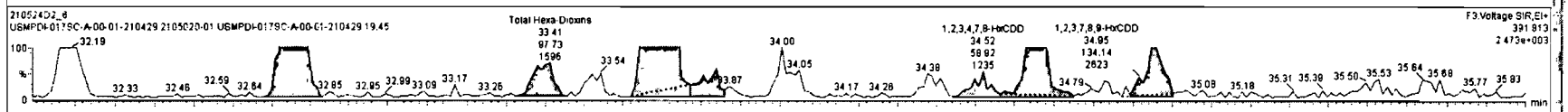
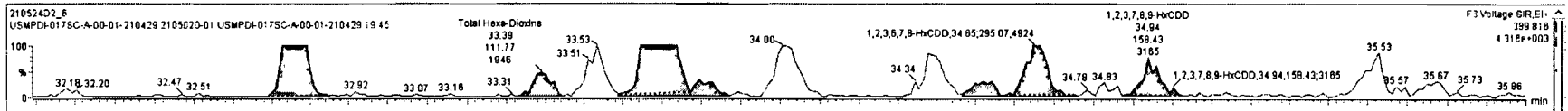
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.18	3.059e1	3.406e2	0.09	YES	0.15077	0.00000
2 Total Hexa-Dioxins	32.76	6.209e2	6.187e2	1.33	NO	3.6770	3.6770
3 Total Hexa-Dioxins	33.39	1.118e2	9.773e1	1.14	NO	0.56422	0.56422
4 Total Hexa-Dioxins	33.70	1.095e3	7.489e2	1.46	YES	4.5101	0.00000
5 Total Hexa-Dioxins	33.80	7.511e1	6.863e1	1.09	NO	0.36765	0.36765
6 1,2,3,4,7,8-HxCDD	34.52	6.244e1	5.811e1	1.42	NO	0.36564	0.36564
7 1,2,3,6,7,8-HxCDD	34.65	2.897e2	2.260e2	1.28	NO	1.3793	1.3793
8 1,2,3,7,8,9-HxCDD	34.94	1.584e2	1.341e2	1.18	NO	0.72522	0.72522



21052402_6 - 2105020-01 USMPD-017SC-A-00-01-210429 19 45 - USMPD-017SC-A-00-01-210429

ID	Name	Resp	RA	nly	RRF	wAval	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				1.05	10.033			1.08	0.115	1.52	
40	Total Penta-Dioxins				0.86	10.033			1.07	0.276	1.85	
41	Total Hexa-Dioxins				1.01	10.033			6.93	0.344	11.6	
42	Total Hepta-Dioxins				1.07	10.033			69.1	0.607	69.1	
43	Total Tetra-Furans				0.85	10.033			6.80	0.125	6.12	
44	1st Func. Penta-Furans				0.85	10.033			1.67	0.0544	1.87	

Name	RT	ml Resp	IC2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Dioxins	32.76	6.209e2	6.187e2	1.33	NO	3.8770	3.8770
2 Total Hexa-Dioxins	33.38	1.118e2	9.773e1	1.14	NO	0.56422	0.56422
3 Total Hexa-Dioxins	33.70	1.096e3	7.498e2	1.46	YES	4.5181	0.00000
4 Total Hexa-Dioxins	33.80	7.511e1	6.800e1	1.10	NO	0.38543	0.00000
5 1,2,3,4,7,8-HxCDD	34.52	8.319e1	5.852e1	1.41	NO	0.36958	0.36958
6 1,2,3,6,7,8-HxCDD	34.65	2.951e2	2.261e2	1.30	NO	1.3638	1.3638
7 1,2,3,7,8,9-HxCDD	34.94	1.584e2	1.341e2	1.18	NO	0.72522	0.72522



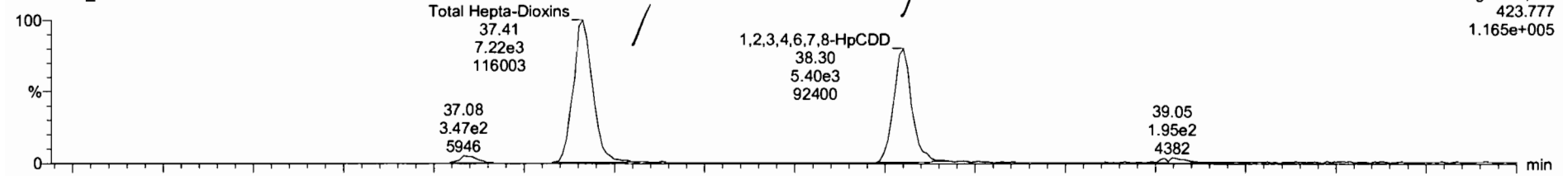
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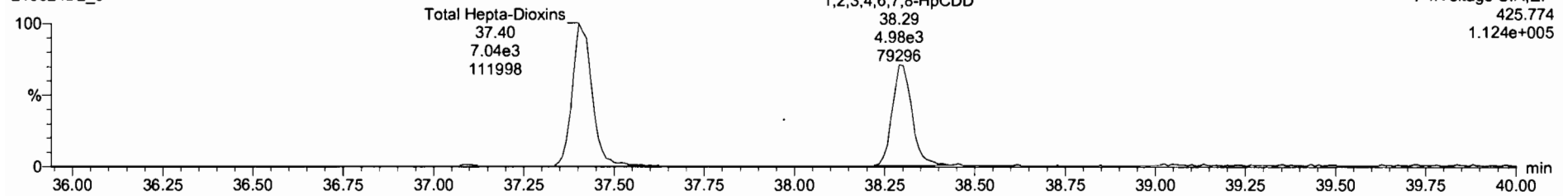
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1,2,3,4,6,7,8-HpCDD

210524D2_6

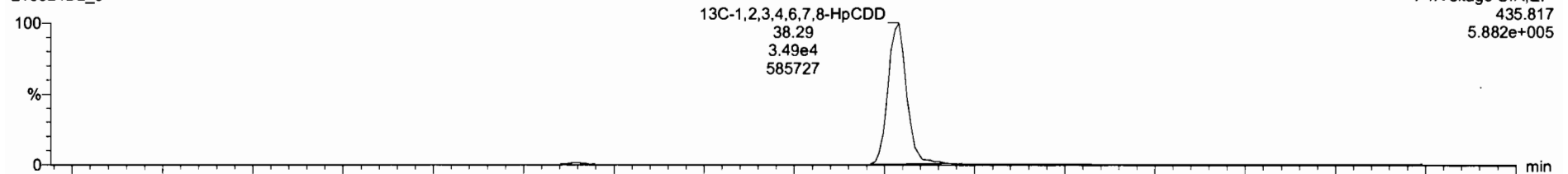


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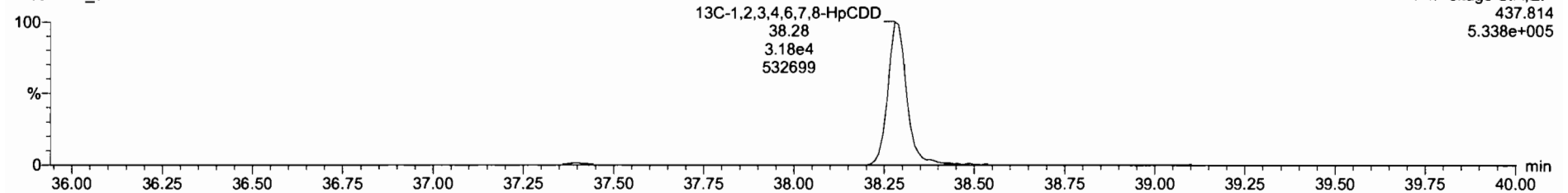


13C-1,2,3,4,6,7,8-HpCDD

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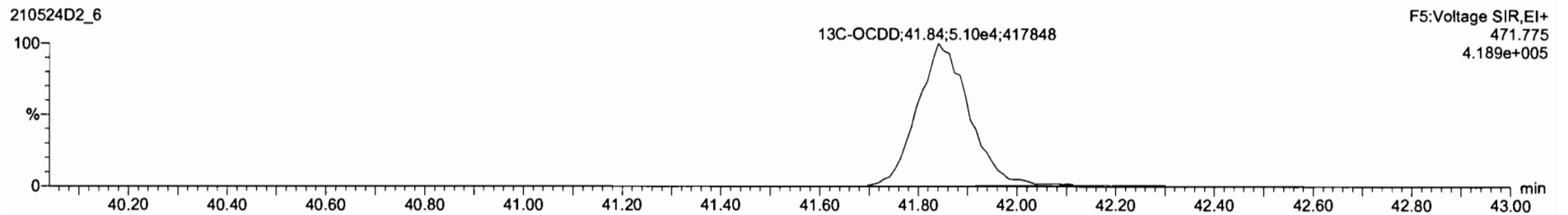
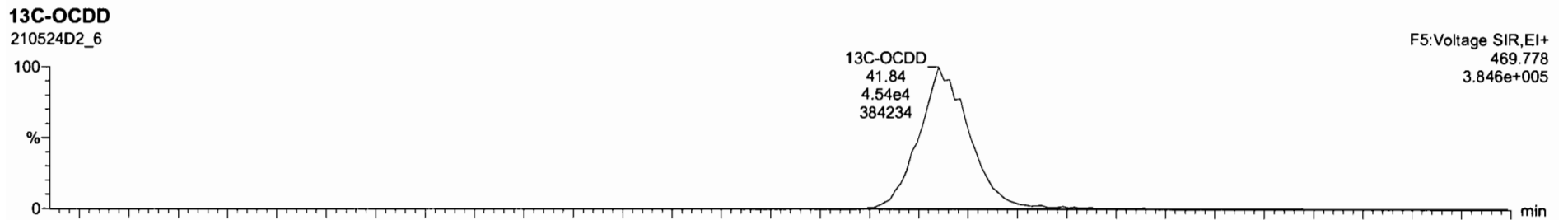
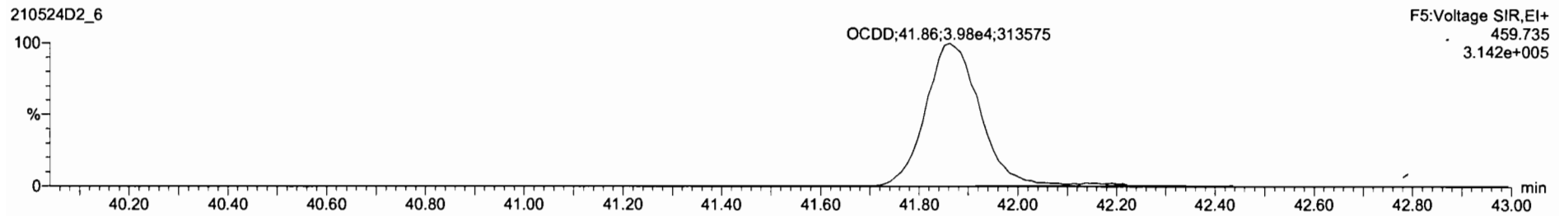
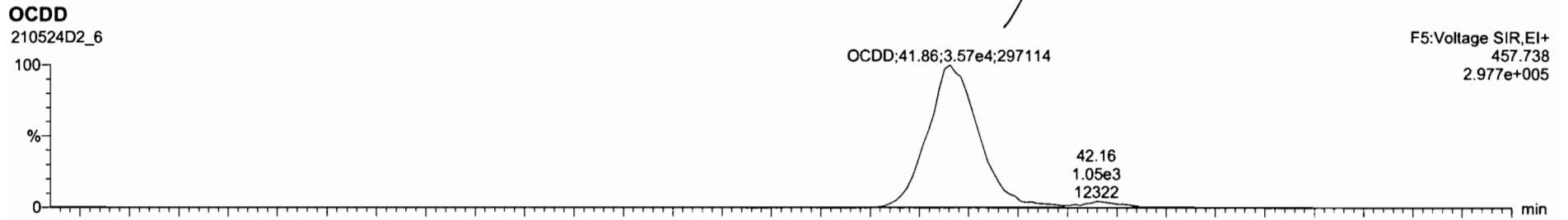
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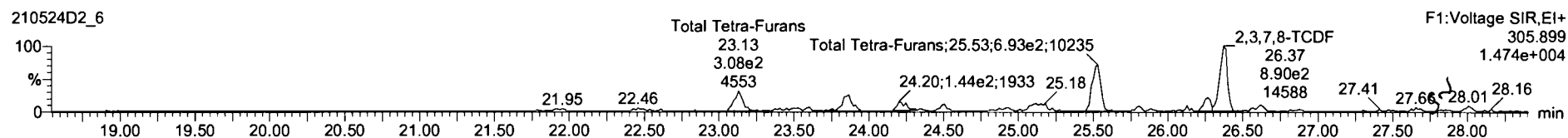
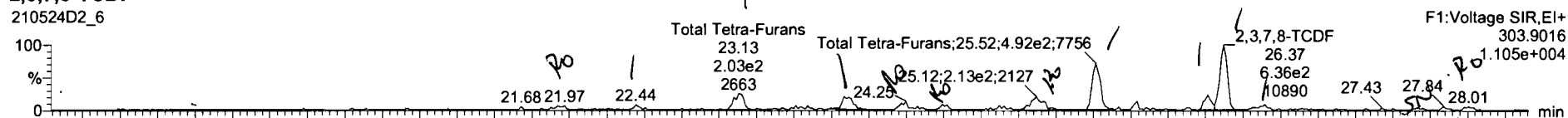


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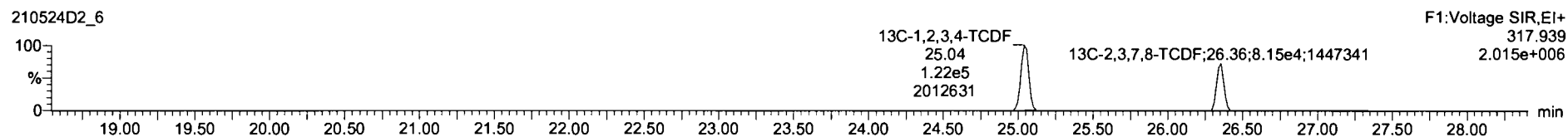
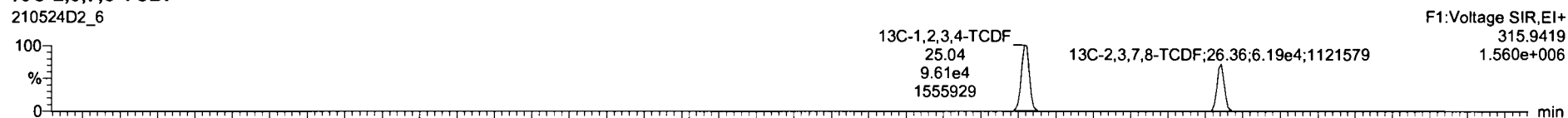
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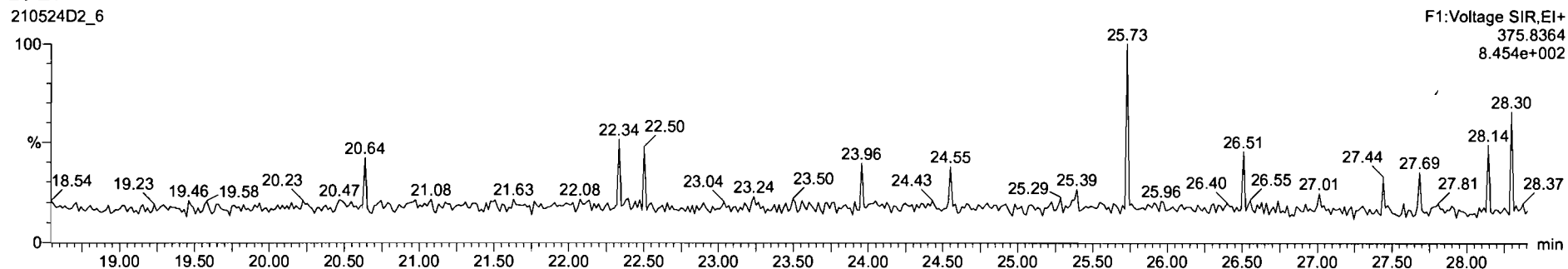
2,3,7,8-TCDF



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



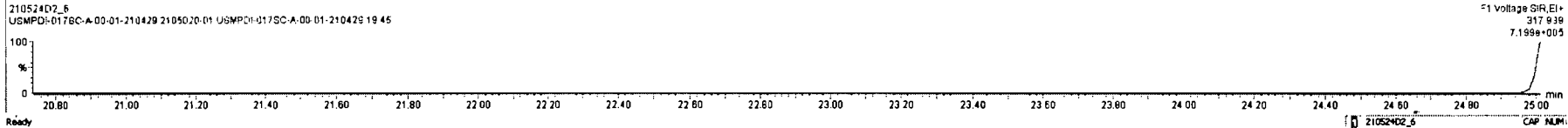
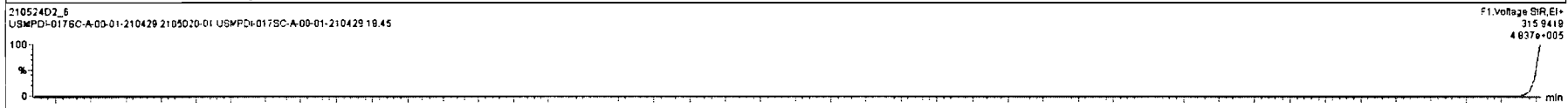
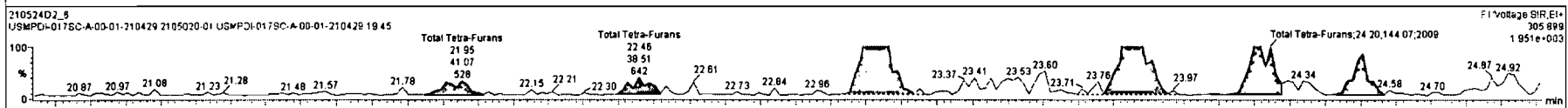
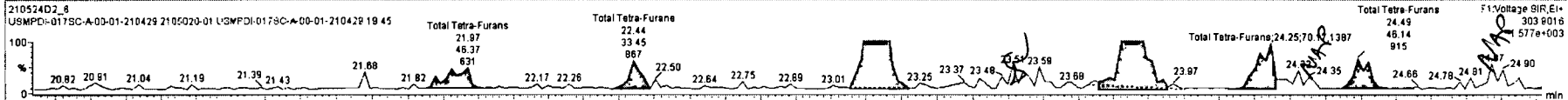
DPE1



210524D2_6 - 2105020-01 USMPDI-0175C-A-00-01-210429 19:45 - USMPDI-0175C-A-00-01-210429

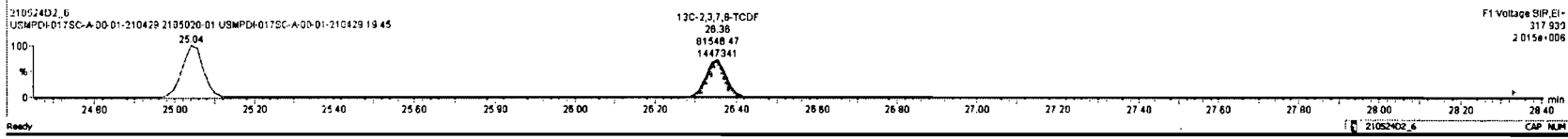
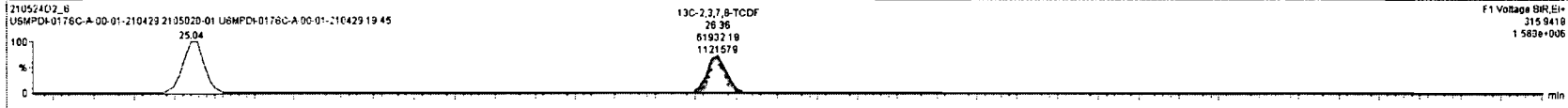
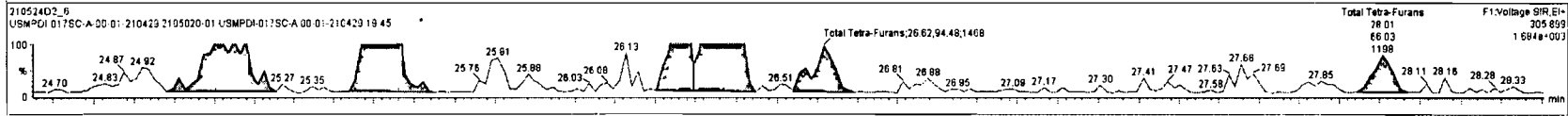
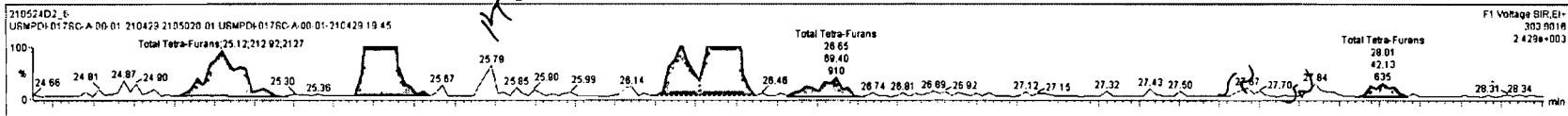
Name	Resp	RA	n/y	RRF	w/wrd	RT	NRT	Conc.	%Rec	DL	EMPC
38	1.3C-1,2,3,4,6,9-HxCDF	1.43e5	0.51	NO	1.00	10.033	34.01	1.000	199	100	0.624
39	Total Tetra-Dioxine				1.05	10.033		1.08		0.115	1.52
40	Total Penta-Dioxins				0.88	10.033		1.07		0.278	1.96
41	Total Hexa-Dioxins				1.01	10.033		7.29		0.344	12.0
42	Total Hepta-Dioxins				1.07	10.033		69.1		0.607	69.1
43	Total Tetra-Furans				0.86	10.033		6.80		0.125	8.01

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Tetra-Furans	21.97	4.637e1	4.107e1	1.13	YES	0.11693	0.00000
2	Total Tetra-Furans	22.44	3.345e1	3.851e1	0.87	NO	0.11575	0.11575
3	Total Tetra-Furans	23.13	2.043e2	3.038e2	0.67	NO	0.81727	0.81727
4	Total Tetra-Furans	23.83	1.961e2	2.737e2	0.72	NO	0.75588	0.75588
5	Total Tetra-Furans	24.25	7.017e1	1.441e2	0.49	YES	0.25945	0.00000
6	Total Tetra-Furans	24.49	4.614e1	6.210e1	0.50	YES	0.17080	0.00000
7	Total Tetra-Furans	25.12	2.129e2	1.795e2	1.19	YES	0.51107	0.00000
8	Total Tetra-Furans	25.51	4.922e2	6.826e2	0.71	NO	1.9083	1.9083
9	Total Tetra-Furans	26.26	1.369e2	1.638e2	0.84	NO	0.48351	0.48351
10	2,3,7,8-TCDF	26.37	6.379e2	8.896e2	0.72	NO	2.4571	2.4571
11	Total Tetra-Furans	26.55	6.940e1	9.448e1	0.73	NO	0.26360	0.26360
12	Total Tetra-Furans	28.01	4.213e1	5.603e1	0.54	YES	0.15577	0.00000



Name	Resp	RA	nly	RF	ndVol	RT	RR1	Conc	ntmg	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	1.43e5	0.51	NO	1.00	10.033	34.01	1.000	199	100	0.524	
39 Total Tetra-Dioxins				1.05	10.033			1.08		0.115	1.52
40 Total Penta-Dioxins				0.88	10.033			1.07		0.276	1.98
41 Total Hexa-Dioxins				1.01	10.033			7.29		0.344	12.0
42 Total Hepta-Dioxins				1.07	10.033			89.1		0.607	88.1
43 Total Tetra-Furans				0.86	10.033			6.90		0.135	8.12

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	21.87	4.637e1	4.107e1	1.13	YES	0.11693	0.00000
2 Total Tetra-Furans	22.44	3.245e1	3.951e1	0.87	NO	0.11575	0.11575
3 Total Tetra-Furans	23.13	2.043e2	3.039e2	0.67	NO	0.81727	0.81727
4 Total Tetra-Furans	23.83	1.981e2	2.737e2	0.72	NO	0.75588	0.75588
5 Total Tetra-Furans	24.25	7.017e1	1.441e2	0.49	YES	0.25945	0.00000
6 Total Tetra-Furans	24.49	4.614e1	8.210e1	0.56	YES	0.17060	0.00000
7 Total Tetra-Furans	25.12	2.129e2	2.174e2	0.98	YES	0.81890	0.00000
8 Total Tetra-Furans	25.51	4.923e2	6.926e2	0.71	NO	1.3063	1.3063
9 Total Tetra-Furans	26.26	1.366e2	1.638e2	0.84	NO	0.48351	0.48351
10 2,3,7,8-TCDF	26.37	6.379e2	8.896e2	0.72	NO	2.4571	2.4571
11 Total Tetra-Furans	26.65	6.840e1	9.440e1	0.73	NO	0.28360	0.28360
12 Total Tetra-Furans	28.01	4.213e1	6.803e1	0.64	YES	0.15577	0.00000



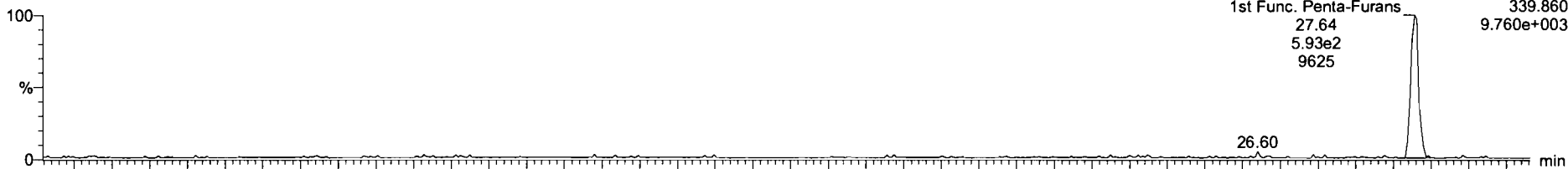
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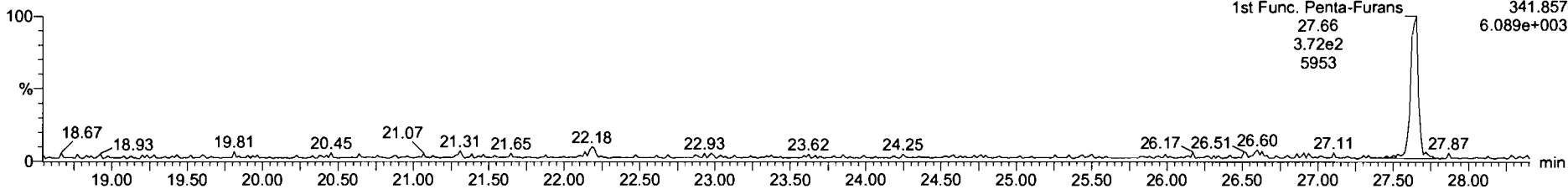
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1st Func. Penta-Furans

210524D2_6

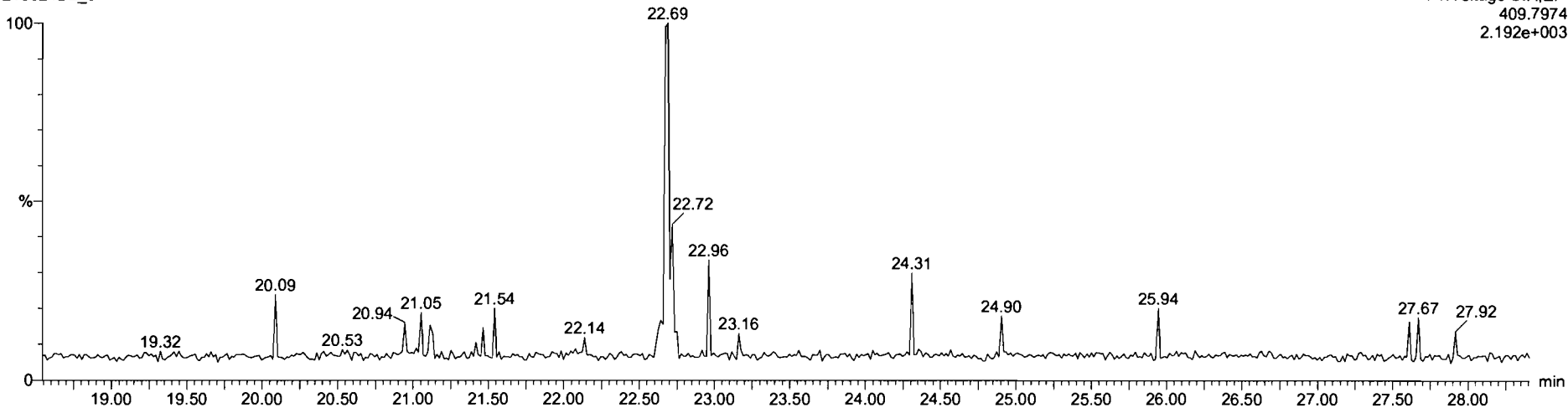


210524D2_6



DPE6

210524D2_6



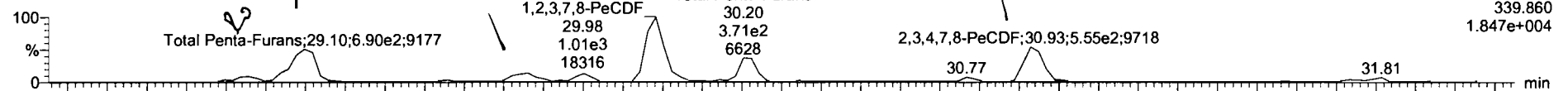
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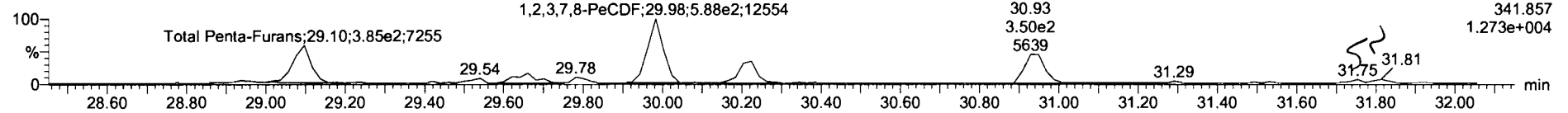
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1,2,3,7,8-PeCDF

210524D2_6

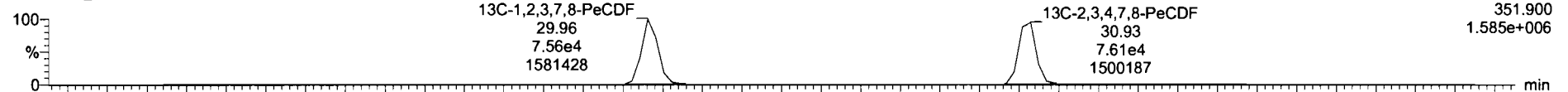


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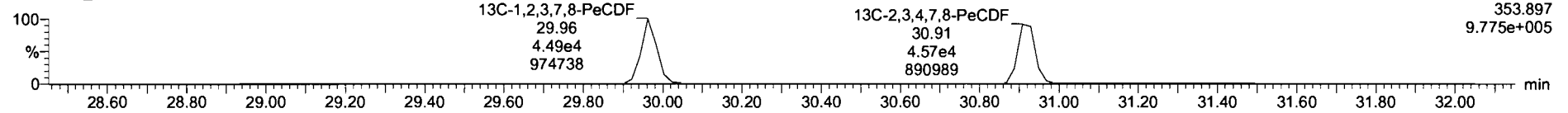


13C-1,2,3,7,8-PeCDF

210524D2_6

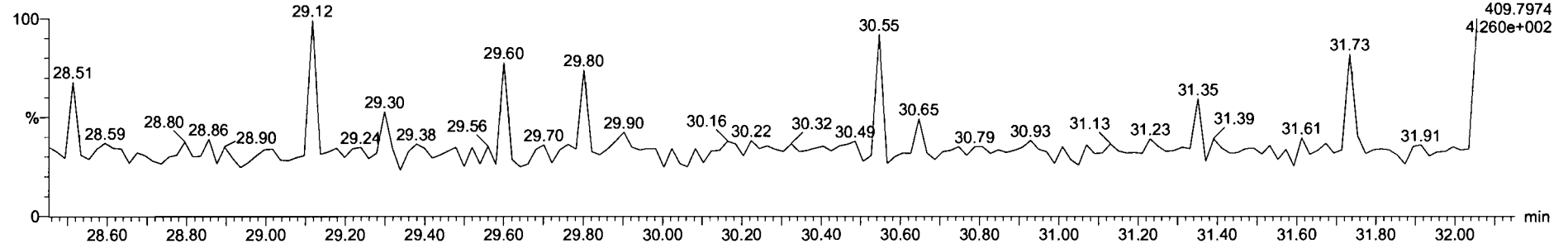


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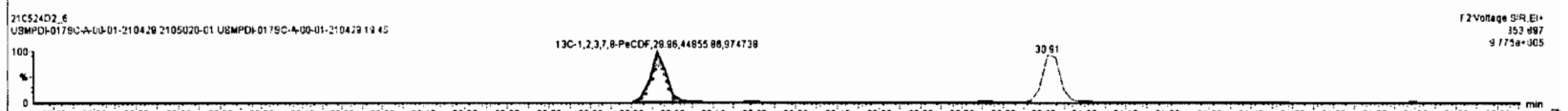
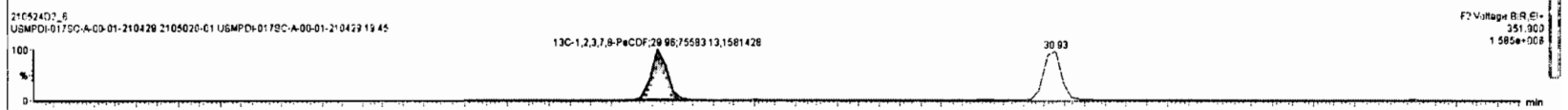
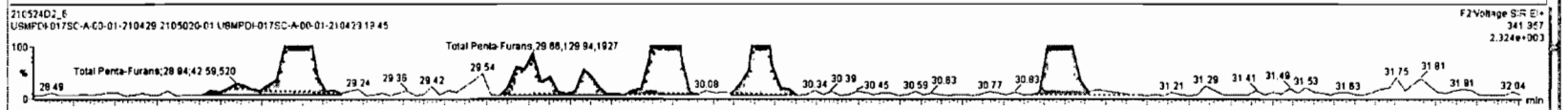
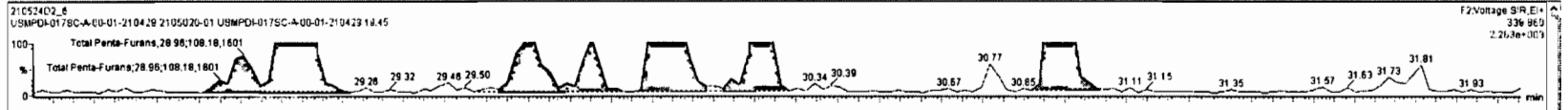
DPE2

210524D2_6



Name	Prep	RA	RV	RFV	wt/Vol	RT	ART	Conc	%Rec	DL	EMPC
45 Total Penta-Furans					0.95	10.033		7.73	0.138	0.17	
46 Total Hexa-Furans					1.13	10.033		15.0	0.175	15.0	
47 Total Hepta-Furans					1.16	10.033		18.6	0.240	19.5	
48 PFK1											
49 PFK2											
50 PFK3											

Name	RT - s	Int Resp	m2 Resp	RA	RV	EMPC	Conc.
1 Total Penta-Furans	28.96	1.082e2	4.259e1	2.54	YES	0.18844	0.00000
2 Total Penta-Furans	29.10	8.836e2	4.198e2	1.66	NO	1.3502	1.8002
3 Total Penta-Furans	29.68	1.830e2	1.299e2	1.41	NO	0.54286	0.54286
4 Total Penta-Furans	29.80	1.229e2	5.535e1	2.22	YES	0.24488	0.00000
5 1,2,3,7,8-PeCDF	29.98	1.006e3	5.852e2	1.68	NO	2.7982	2.7982
6 Total Penta-Furans	30.20	3.880e2	2.383e2	1.54	NO	1.0519	1.0519
7 2,3,4,7,8-PeCDF	30.83	5.580e2	3.375e2	1.65	NO	1.4086	1.4086

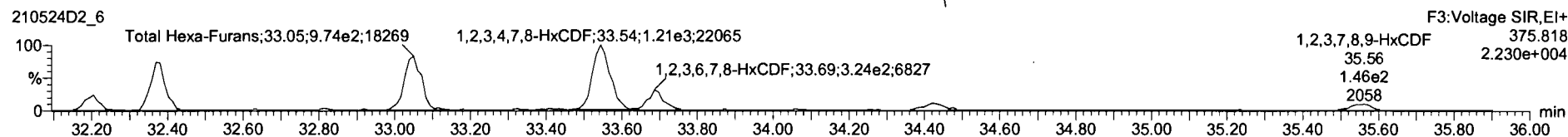
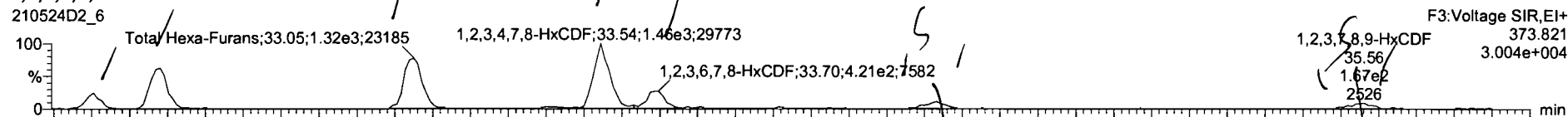


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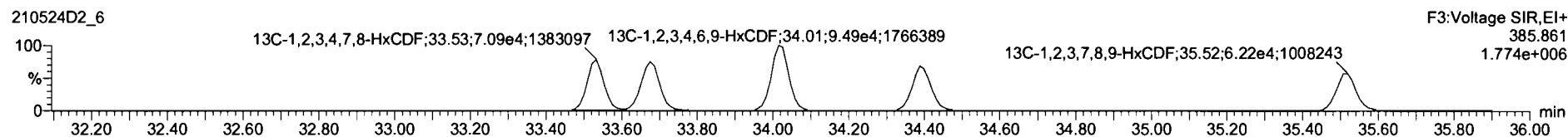
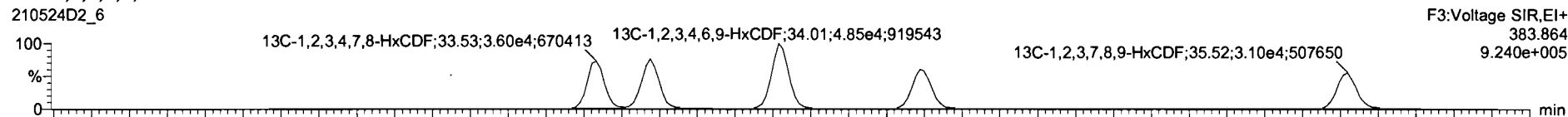
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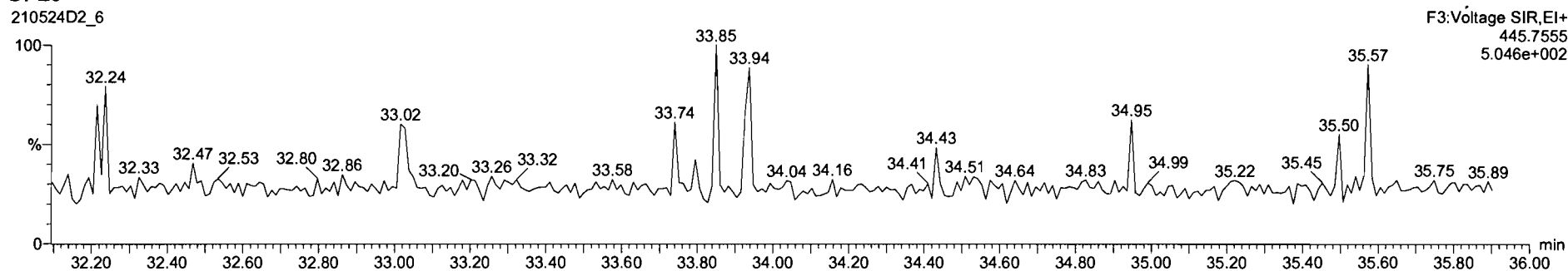
1,2,3,4,7,8-HxCDF



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

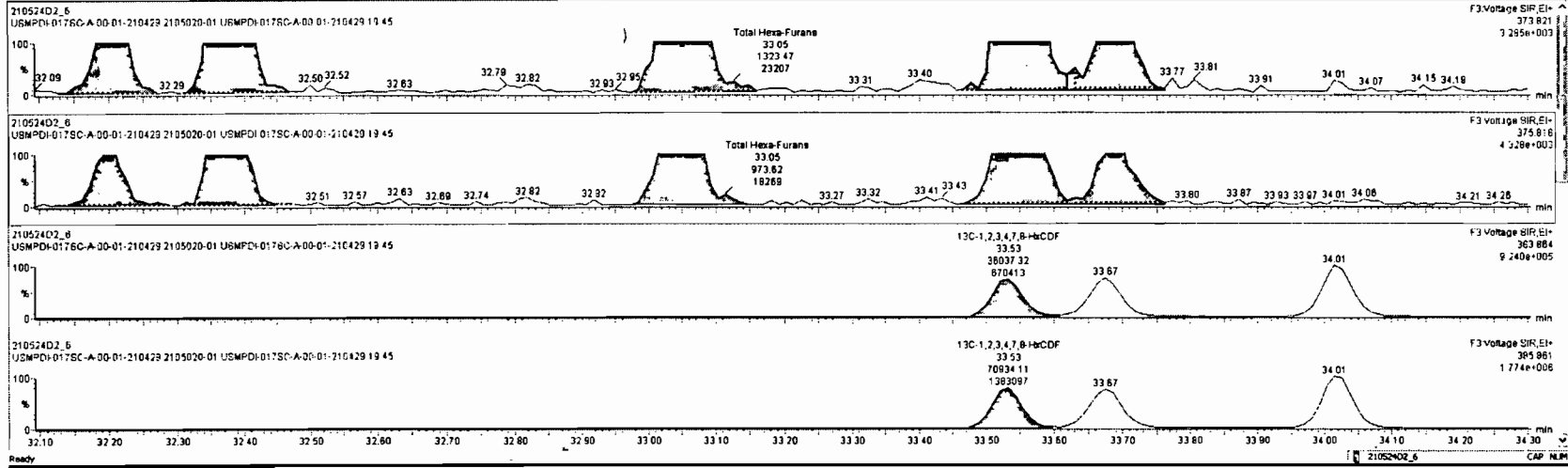


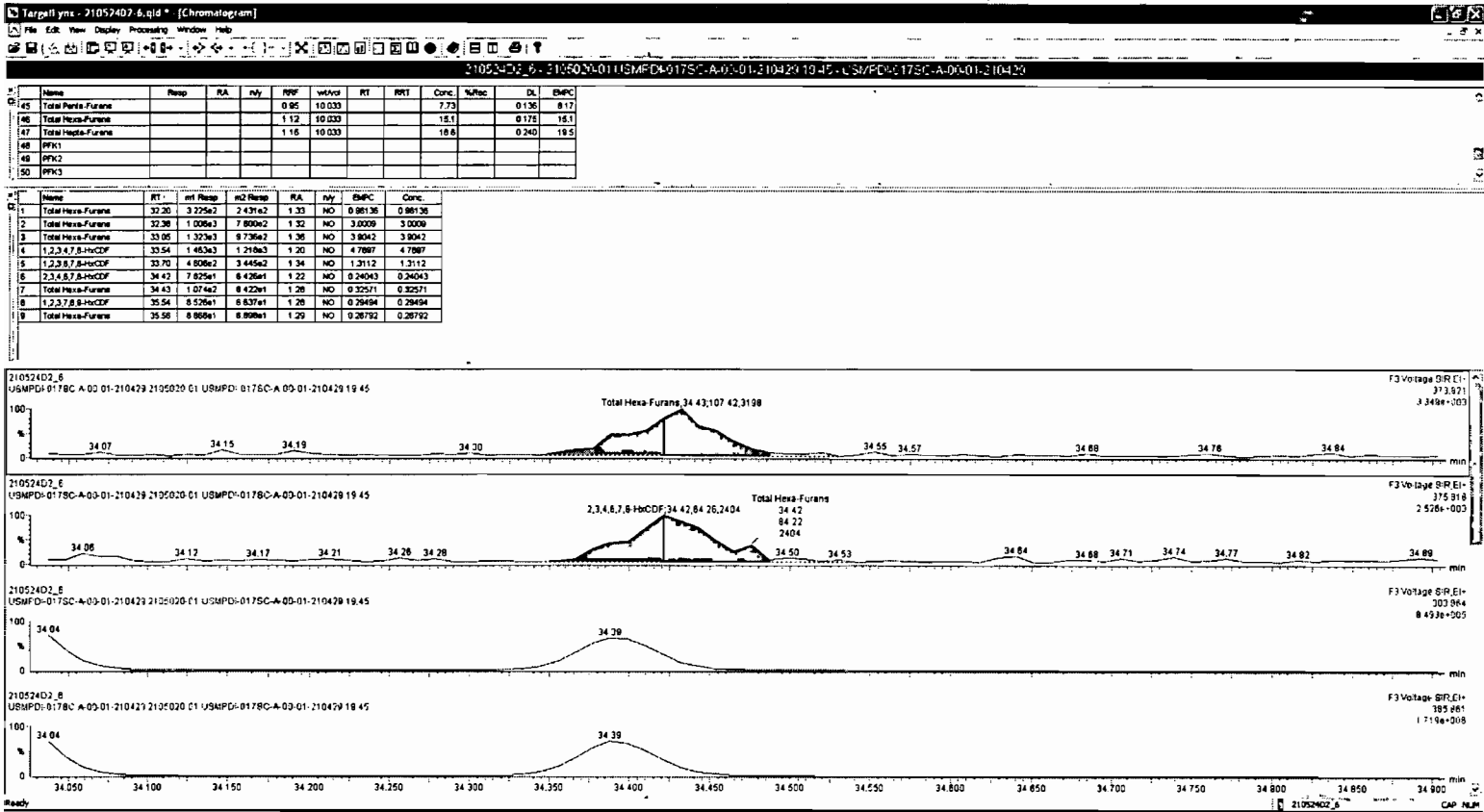
DPE3



Name	Resp	RA	n/y	PPF	wtVol	RT	RRT	Conc	%Rec	DL	ELPC
45 Total Penta-Furans				0.95	10.033	7.73		7.73	0.136	9.17	
46 Total Hexa-Furans				1.12	10.033			15.1	0.175	15.1	
47 Total Hepta-Furans				1.18	10.033			18.6	0.240	18.6	
48 PF11											
49 PF12											
50 PF13											

Name	RT	m1 Resp	m2 Resp	RA	n/y	ELPC	Conc
1 Total Hexa-Furans	32.20	3.225e2	2.431e2	1.33	NO	0.96136	0.96136
2 Total Hexa-Furans	32.38	1.006e3	7.600e2	1.32	NO	3.0009	3.0009
3 Total Hexa-Furans	33.05	1.323e3	9.736e2	1.36	NO	3.9042	3.9042
4 1,2,3,4,7,8-HxCDF	33.54	1.463e3	1.218e3	1.20	NO	4.7867	4.7867
5 1,2,3,6,7,8-HxCDF	33.70	4.606e2	3.445e2	1.34	NO	1.3112	1.3112
6 2,3,4,6,7,8-HxCDF	34.42	7.825e1	6.426e1	1.22	NO	0.24043	0.24043
7 Total Hexa-Furans	34.43	1.074e2	8.422e1	1.28	NO	0.32571	0.32571
8 1,2,3,7,8-HxCDF	35.54	8.525e1	6.837e1	1.28	NO	0.29494	0.29494
9 Total Hexa-Furans	35.54	8.866e1	6.898e1	1.28	NO	0.28782	0.28782

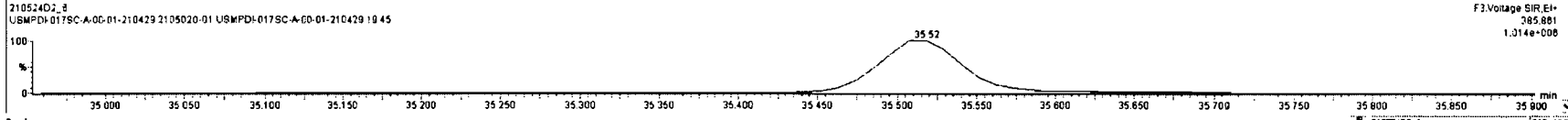
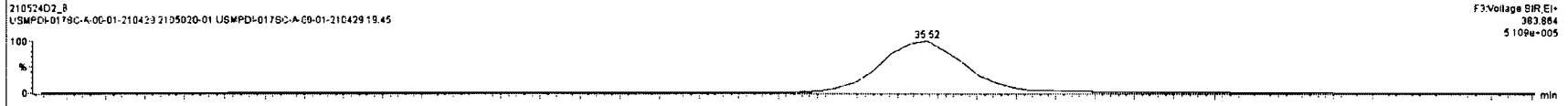
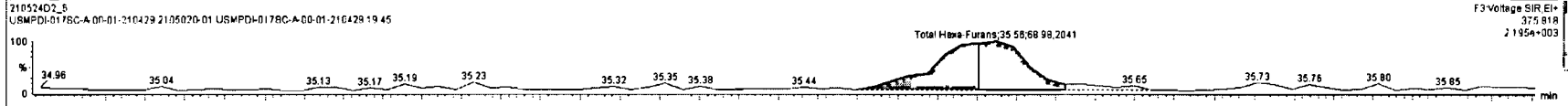
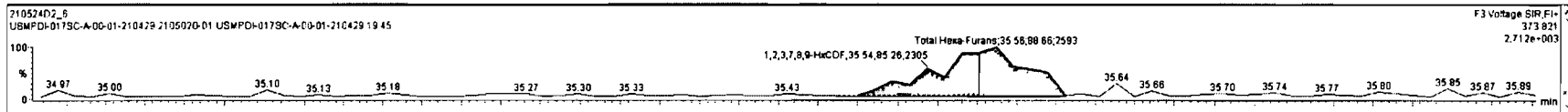




210524D2_6 - 2105020-01 USMPDI-0178C-A-00-01-210429 19 45 - USMPDI-0178C-A-00-01-210429

Name	Resp	RA	n/y	RRF	wtAve	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.95	10.033			7.73		0.136	8.17
46 Total Hexa-Furans				1.12	10.033			16.1		0.175	16.1
47 Total Hepta-Furans				1.18	10.033			18.8		0.240	19.5
48 PPK1											
49 PPK2											
50 PPK3											

Name	RT	1	wt Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.20	3.225e2	2.431e2	1.33	NO	0.96136	0.96136	
2 Total Hexa-Furans	32.38	1.006e3	7.600e2	1.32	NO	3.0009	3.0009	
3 Total Hexa-Furans	33.05	1.323e3	9.736e2	1.36	NO	3.9042	3.9042	
4 1,2,3,4,7,8-HxCDF	33.54	1.463e3	1.219e3	1.20	NO	4.7897	4.7897	
5 1,2,3,6,7,8-HxCDF	33.70	4.806e2	3.445e2	1.34	NO	1.3112	1.3112	
6 2,3,4,6,7,8-HxCDF	34.42	7.825e1	6.426e1	1.22	NO	0.24043	0.24043	
7 Total Hexa-Furans	34.43	1.074e2	8.422e1	1.28	NO	0.32571	0.32571	
8 1,2,3,7,8,9-HxCDF	35.54	8.526e1	6.837e1	1.28	NO	0.29494	0.29494	
9 Total Hexa-Furans	35.56	6.866e1	6.866e1	1.29	NO	0.26792	0.26792	

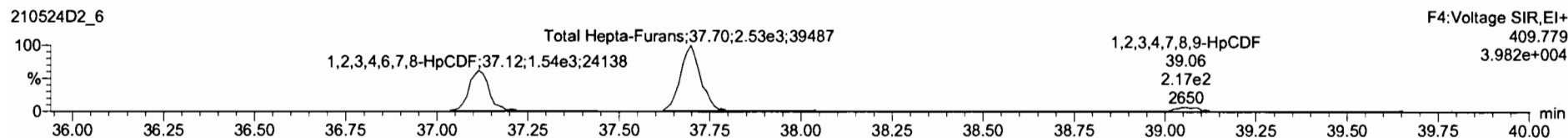
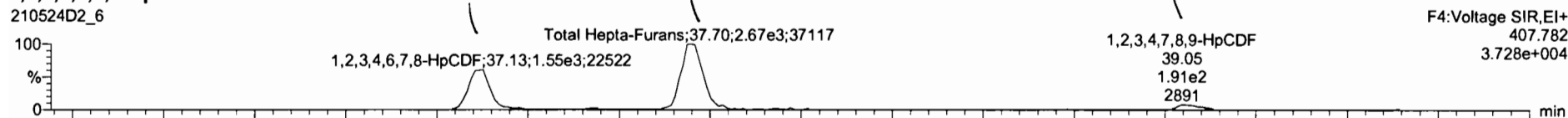


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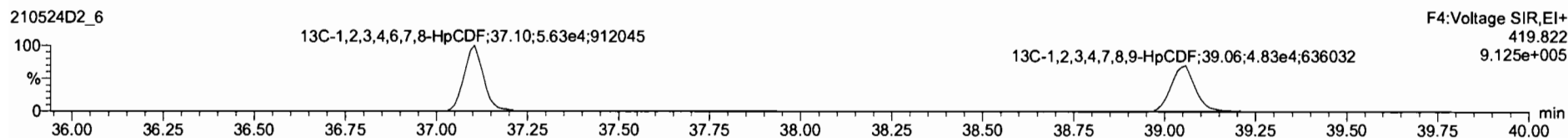
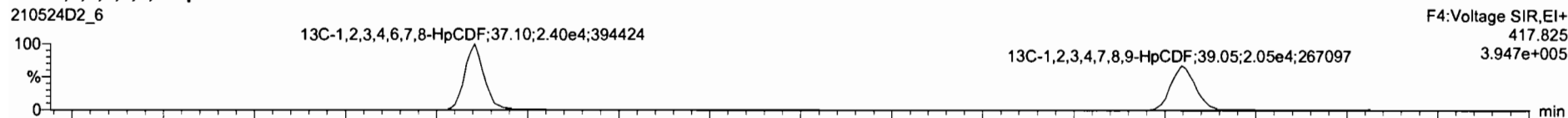
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Printed: Wednesday, May 26, 2021 12:09:51 Pacific Daylight Time

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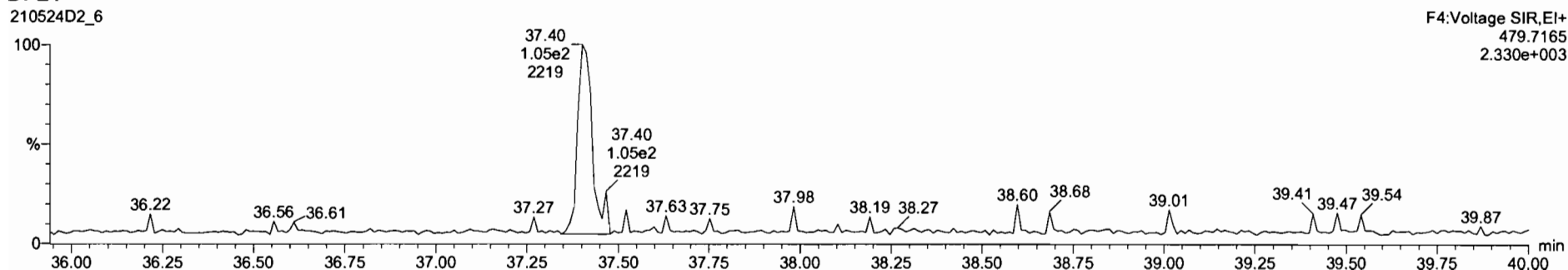
1,2,3,4,6,7,8-HpCDF

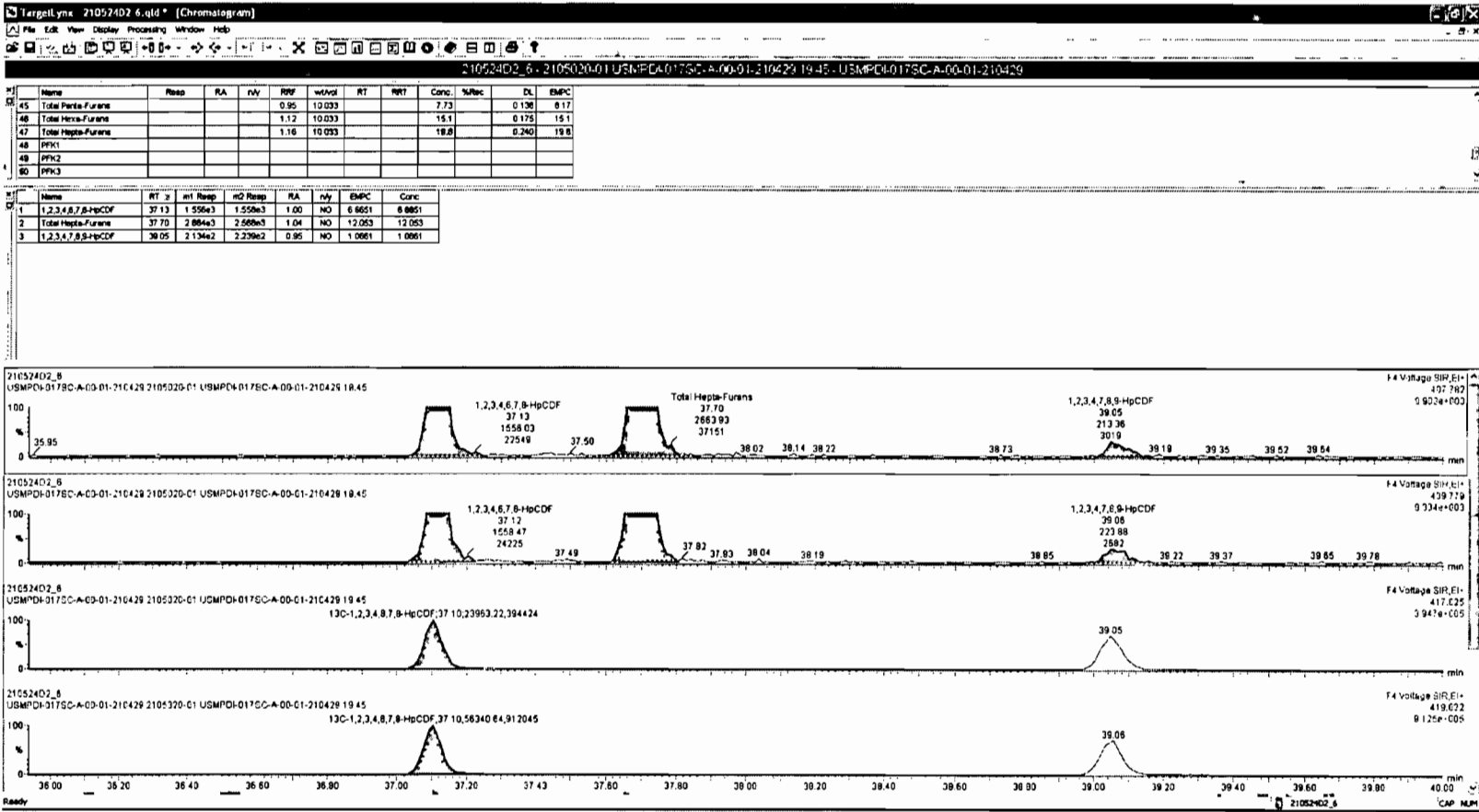


13C-1,2,3,4,6,7,8-HpCDF



DPE4

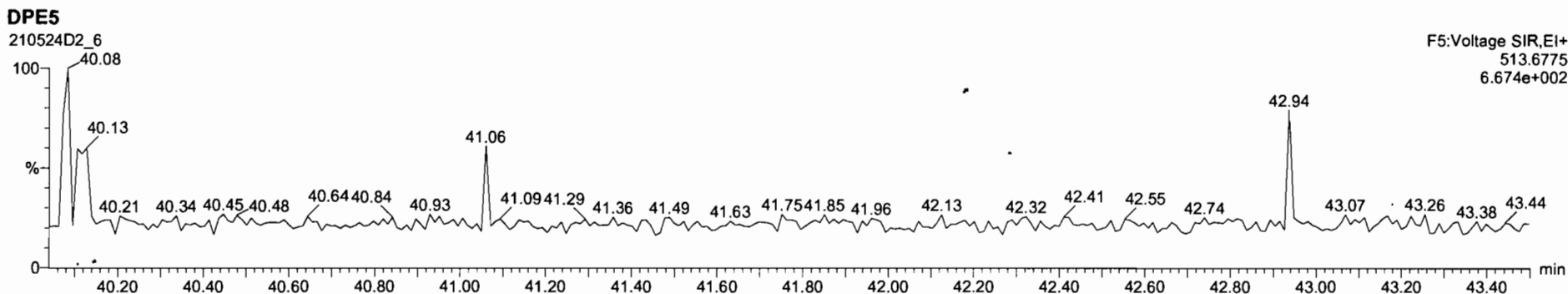
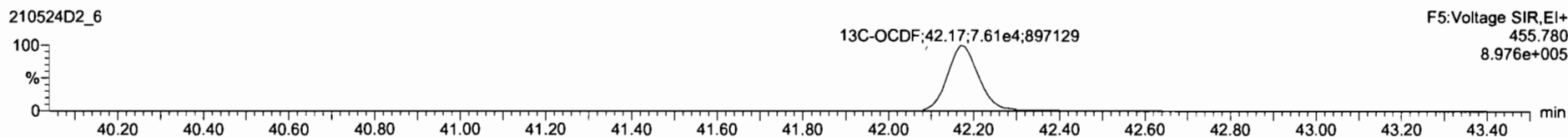
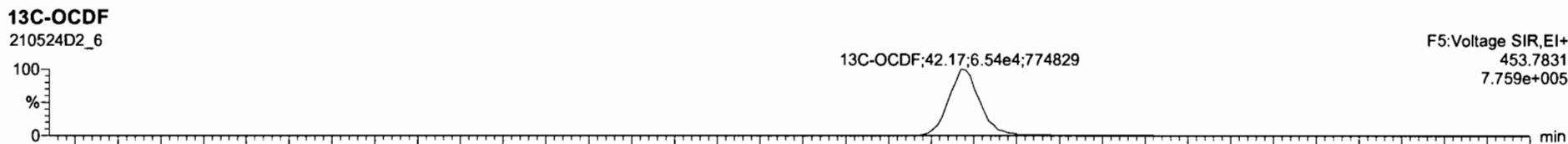
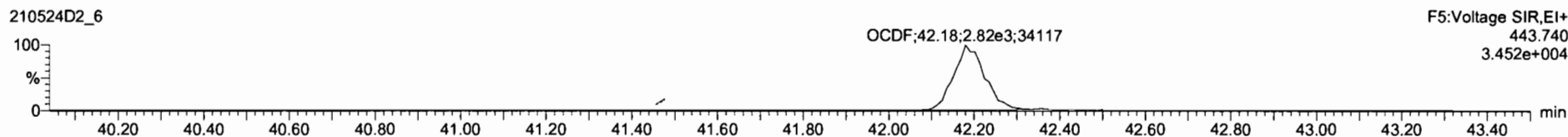




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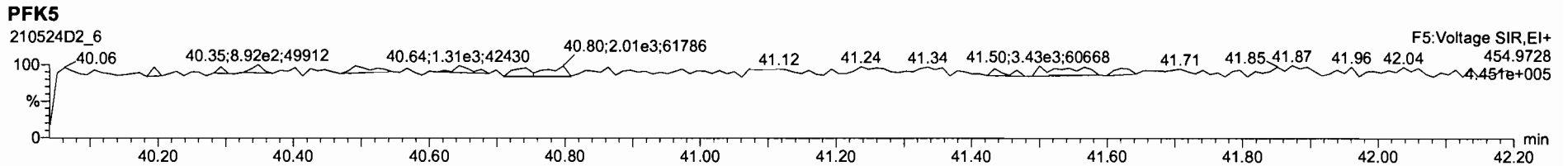
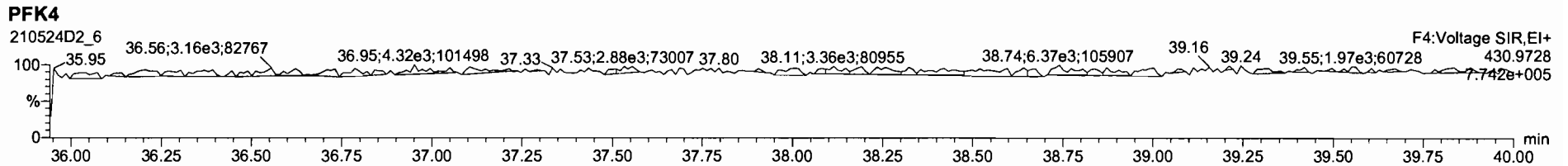
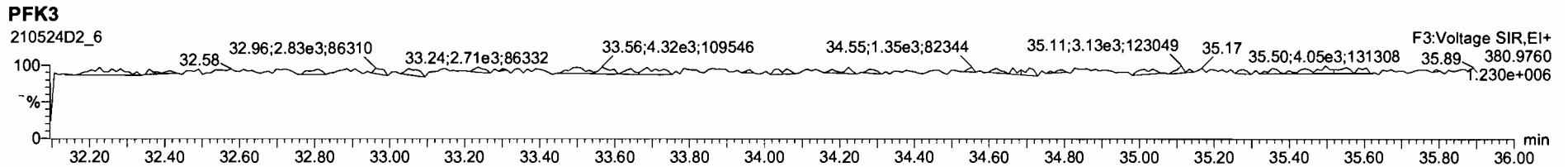
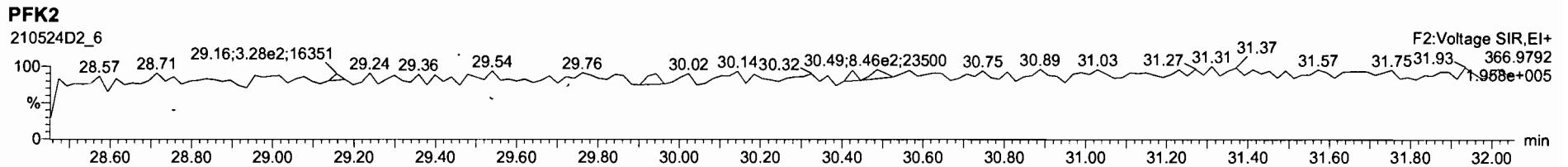
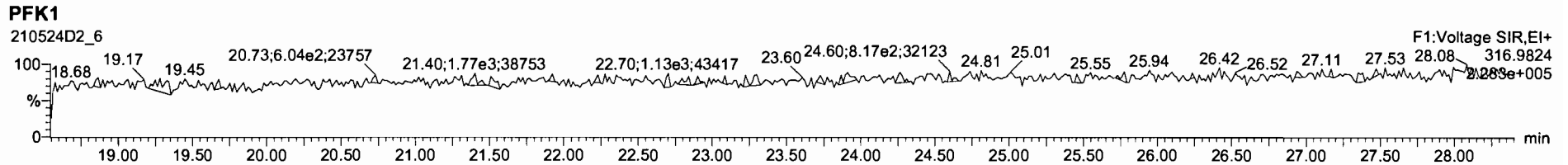
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Last Altered: Wednesday, May 26, 2021 12:09:24 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:09:51 Pacific Daylight Time

Name: 210524D2_6, Date: 24-May-2021, Time: 23:03:22, ID: 2105020-01 USMPDI-017SC-A-00-01-210429 19.45, Description: USMPDI-017SC-A-00-01-210429



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-7.qld

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HZ 6-9-2021

C106/10/2021

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.61e2	0.46	YES	1.05	10.010	26.95	1.001	0.28405		0.162	0.206
2	1,2,3,7,8-PeCDD	1.76e2	0.50	YES	0.881	10.010	31.11	1.001	0.42671		0.164	0.367
3	1,2,3,4,7,8-HxCDD			NO	1.14	10.010					0.539	
4	1,2,3,6,7,8-HxCDD	1.11e3	1.10	NO	1.01	10.010	34.69	1.000	2.5954		0.616	2.60
5	1,2,3,7,8,9-HxCDD	5.47e2	1.35	NO	1.02	10.010	35.00	1.001	1.2028		0.552	1.20
6	1,2,3,4,6,7,8-HpCDD	1.90e4	1.12	NO	1.07	10.010	38.39	1.000	47.752		1.02	47.8
7	OCDD	1.62e5	0.89	NO	1.00	10.010	41.90	1.000	605.34		1.60	605
8	2,3,7,8-TCDF	5.87e3	0.80	NO	0.864	10.010	26.37	1.001	7.5134		0.152	7.51
9	1,2,3,7,8-PeCDF	9.76e3	1.61	NO	0.948	10.010	29.98	1.001	13.888		0.205	13.9
10	2,3,4,7,8-PeCDF	5.37e3	1.50	NO	1.04	10.010	30.95	1.001	7.1628		0.189	7.16
11	1,2,3,4,7,8-HxCDF	1.89e4	1.27	NO	1.04	10.010	33.54	1.000	28.944		0.381	28.9
12	1,2,3,6,7,8-HxCDF	6.11e3	1.25	NO	1.07	10.010	33.70	1.001	8.4367		0.356	8.44
13	2,3,4,6,7,8-HxCDF	7.24e2	1.09	NO	1.12	10.010	34.44	1.001	1.0454		0.386	1.05
14	1,2,3,7,8,9-HxCDF	9.33e2	1.18	NO	1.10	10.010	35.56	1.001	1.5923		0.544	1.59
15	1,2,3,4,6,7,8-HpCDF	1.31e4	1.01	NO	1.16	10.010	37.15	1.000	23.846		0.323	23.8
16	1,2,3,4,7,8,9-HpCDF	3.75e3	1.02	NO	1.19	10.010	39.13	1.001	8.0821		0.546	8.08
17	OCDF	1.68e4	0.87	NO	0.909	10.010	42.31	1.001	48.669		0.578	48.7
18	13C-2,3,7,8-TCDD	1.08e5	0.79	NO	1.15	10.010	26.92	1.024	143.12	71.6	0.410	
19	13C-1,2,3,7,8-PeCDD	9.36e4	0.62	NO	0.887	10.010	31.09	1.183	159.87	80.0	0.389	
20	13C-1,2,3,4,7,8-HxCDD	7.31e4	1.30	NO	0.645	10.010	34.53	1.015	147.98	74.1	0.691	
21	13C-1,2,3,6,7,8-HxCDD	8.44e4	1.24	NO	0.717	10.010	34.68	1.020	153.83	77.0	0.622	
22	13C-1,2,3,7,8,9-HxCDD	8.91e4	1.26	NO	0.714	10.010	34.98	1.028	163.04	81.6	0.625	
23	13C-1,2,3,4,6,7,8-HpCDD	7.46e4	1.05	NO	0.583	10.010	38.39	1.129	167.12	83.6	0.921	
24	13C-OCDD	1.07e5	0.88	NO	0.451	10.010	41.90	1.232	308.38	77.2	0.941	
25	13C-2,3,7,8-TCDF	1.81e5	0.77	NO	1.09	10.010	26.34	1.002	149.54	74.8	0.385	
26	13C-1,2,3,7,8-PeCDF	1.48e5	1.62	NO	0.805	10.010	29.96	1.140	166.00	83.1	0.816	
27	13C-2,3,4,7,8-PeCDF	1.44e5	1.63	NO	0.792	10.010	30.93	1.177	164.42	82.3	0.829	
28	13C-1,2,3,4,7,8-HxCDF	1.25e5	0.50	NO	0.997	10.010	33.53	0.986	163.52	81.8	0.876	
29	13C-1,2,3,6,7,8-HxCDF	1.35e5	0.50	NO	1.03	10.010	33.67	0.990	170.89	85.5	0.849	
30	13C-2,3,4,6,7,8-HxCDF	1.24e5	0.51	NO	0.940	10.010	34.41	1.012	172.23	86.2	0.929	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-7.qld

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Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.07e5	0.49	NO	0.852	10.010	35.52	1.044	163.26	81.7	1.02	
32	13C-1,2,3,4,6,7,8-HpCDF	9.48e4	0.40	NO	0.727	10.010	37.14	1.092	170.35	85.3	0.756	
33	13C-1,2,3,4,7,8,9-HpCDF	7.80e4	0.41	NO	0.608	10.010	39.11	1.150	167.57	83.9	0.904	
34	13C-OCDF	1.51e5	0.86	NO	0.631	10.010	42.29	1.243	313.36	78.4	0.539	
35	37Cl-2,3,7,8-TCDD	9.15e4			2.22	10.010	26.94	1.025	62.457	78.2	0.0591	
36	13C-1,2,3,4-TCDD	1.32e5	0.77	NO	1.00	10.010	26.28	1.000	199.79	100	0.470	
37	13C-1,2,3,4-TCDF	2.21e5	0.77	NO	1.00	10.010	25.04	1.000	199.79	100	0.420	
38	13C-1,2,3,4,6,9-HxCDF	1.53e5	0.51	NO	1.00	10.010	34.01	1.000	199.79	100	0.873	
39	Total Tetra-Dioxins				1.05	10.010			0.75495		0.152	1.11
40	Total Penta-Dioxins				0.881	10.010			1.5320		0.184	2.89
41	Total Hexa-Dioxins				1.01	10.010			22.069		0.593	22.1
42	Total Hepta-Dioxins				1.07	10.010			109.71		1.02	110
43	Total Tetra-Furans				0.864	10.010			23.853		0.152	27.8
44	1st Func. Penta-Furans				0.948	10.010			3.1878		0.0657	3.19
45	Total Penta-Furans				0.948	10.010			37.656		0.206	38.3
46	Total Hexa-Furans				1.12	10.010			57.857		0.398	59.6
47	Total Hepta-Furans				1.16	10.010			56.216		0.430	56.2

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Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429, Task: ST210524D2-1

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Dioxins	23.80	1.856e3	2.238e3	1.045e2	1.208e2	0.86	NO	2.253e2	0.39712	0.39712	0.152
Total Tetra-Dioxins	24.08	7.610e2	1.107e3	4.468e1	5.251e1	0.85	NO	9.719e1	0.17130	0.17130	0.152
Total Tetra-Dioxins	25.55	6.500e2	1.045e3	3.693e1	6.114e1	0.60	YES	0.000e0	0.00000	0.14962	0.152
Total Tetra-Dioxins	26.69	1.310e3	1.323e3	4.652e1	5.932e1	0.78	NO	1.058e2	0.18653	0.18653	0.152
2,3,7,8-TCDD	26.95	1.089e3	2.740e3	5.072e1	1.104e2	0.46	YES	1.612e2	0.00000	0.20551	0.152

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Dioxins	29.04	2.845e3	3.753e3	1.796e2	2.543e2	0.71	NO	4.339e2	1.0513	1.0513	0.184
Total Penta-Dioxins	29.50	1.173e3	2.261e3	5.832e1	1.728e2	0.34	YES	0.000e0	0.00000	0.36558	0.184
Total Penta-Dioxins	30.12	1.422e3	1.537e3	1.029e2	1.540e2	0.67	NO	0.000e0	0.00000	0.62257	0.184
Total Penta-Dioxins	30.38	1.173e3	1.912e3	7.059e1	1.278e2	0.55	NO	1.984e2	0.48073	0.48073	0.184
1,2,3,7,8-PeCDD	31.11	1.484e3	2.194e3	5.862e1	1.175e2	0.50	YES	1.761e2	0.00000	0.36746	0.184

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	32.75	3.167e4	2.551e4	1.554e3	1.281e3	1.21	NO	2.835e3	6.8141	6.8141	0.593
Total Hexa-Dioxins	33.39	2.900e3	2.874e3	1.642e2	1.196e2	1.37	NO	2.838e2	0.68213	0.68213	0.593
Total Hexa-Dioxins	33.70	3.646e4	2.581e4	2.565e3	1.917e3	1.34	NO	4.482e3	10.775	10.775	0.593
1,2,3,6,7,8-HxCDD	34.69	8.438e3	7.163e3	5.807e2	5.276e2	1.10	NO	1.108e3	2.5954	2.5954	0.616
1,2,3,7,8,9-HxCDD	35.00	5.201e3	3.406e3	3.142e2	2.329e2	1.35	NO	5.471e2	1.2028	1.2028	0.552

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.46	1.597e5	1.499e5	1.257e4	1.208e4	1.04	NO	2.465e4	61.962	61.962	1.02
1,2,3,4,6,7,8-HpCDD	38.39	1.144e5	1.088e5	1.005e4	8.952e3	1.12	NO	1.900e4	47.752	47.752	1.02

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Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429, Task: ST210524D2-1

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Furans	21.92	1.033e3	9.080e2	5.981e1	6.714e1	0.89	YES	0.000e0	0.00000	0.15211	0.152
2 Total Tetra-Furans	22.46	2.042e3	3.357e3	1.356e2	1.988e2	0.68	NO	3.344e2	0.42801	0.42801	0.152
3 Total Tetra-Furans	23.13	5.800e3	6.545e3	4.361e2	4.975e2	0.88	NO	9.336e2	1.1949	1.1949	0.152
4 Total Tetra-Furans	23.51	3.474e3	2.762e3	3.160e2	3.450e2	0.92	YES	0.000e0	0.00000	0.78166	0.152
5 Total Tetra-Furans	23.86	1.083e4	1.445e4	9.404e2	1.209e3	0.78	NO	2.149e3	2.7507	2.7507	0.152
6 Total Tetra-Furans	24.22	5.714e3	7.554e3	3.928e2	4.303e2	0.91	YES	0.000e0	0.00000	0.97493	0.152
7 Total Tetra-Furans	24.32	1.782e3	2.951e3	9.542e1	2.160e2	0.44	YES	0.000e0	0.00000	0.28075	0.152
8 Total Tetra-Furans	24.49	3.852e3	4.256e3	2.264e2	2.801e2	0.81	NO	5.065e2	0.64829	0.64829	0.152
9 Total Tetra-Furans	24.92	1.900e3	2.291e3	1.272e2	1.166e2	1.09	YES	0.000e0	0.00000	0.26408	0.152
10 Total Tetra-Furans	25.12	7.487e3	9.769e3	7.146e2	8.950e2	0.80	NO	1.610e3	2.0601	2.0601	0.152
11 Total Tetra-Furans	25.50	4.265e4	4.952e4	2.546e3	3.307e3	0.77	NO	5.853e3	7.4919	7.4919	0.152
12 Total Tetra-Furans	25.78	2.106e3	2.814e3	1.170e2	1.945e2	0.60	YES	0.000e0	0.00000	0.34412	0.152
13 Total Tetra-Furans	26.25	6.058e3	7.441e3	3.699e2	4.852e2	0.76	NO	8.551e2	1.0944	1.0944	0.152
14 2,3,7,8-TCDF	26.37	4.316e4	5.618e4	2.602e3	3.268e3	0.80	NO	5.870e3	7.5134	7.5134	0.152
15 Total Tetra-Furans	26.63	3.988e3	5.703e3	3.061e2	3.454e2	0.89	YES	0.000e0	0.00000	0.78238	0.152
16 Total Tetra-Furans	26.86	1.802e3	1.269e3	7.896e1	6.864e1	1.15	YES	0.000e0	0.00000	0.15549	0.152
17 Total Tetra-Furans	27.66	1.704e3	1.915e3	1.106e2	1.020e2	1.09	YES	0.000e0	0.00000	0.23101	0.152
18 Total Tetra-Furans	27.99	4.853e3	6.723e3	2.443e2	2.800e2	0.87	NO	5.244e2	0.67116	0.67116	0.152

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1st Func. Penta-Furans	27.64	3.196e4	1.613e4	1.382e3	8.293e2	1.67	NO	2.211e3	3.1878	3.1878	0.0657

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Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429, Task: ST210524D2-1

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Furans	28.94	4.477e3	2.924e3	2.634e2	1.496e2	1.76	NO	4.131e2	0.59541	0.59541	0.206
2 Total Penta-Furans	29.08	6.053e4	3.695e4	3.722e3	2.221e3	1.68	NO	5.943e3	8.5665	8.5665	0.206
3 Total Penta-Furans	29.64	6.875e3	4.912e3	4.691e2	2.799e2	1.68	NO	7.490e2	1.0797	1.0797	0.206
4 Total Penta-Furans	29.78	1.242e4	9.410e3	6.936e2	4.397e2	1.58	NO	1.133e3	1.6336	1.6336	0.206
5 1,2,3,7,8-PeCDF	29.98	1.186e5	6.857e4	6.018e3	3.740e3	1.61	NO	9.758e3	13.888	13.888	0.205
6 Total Penta-Furans	30.20	4.163e4	2.780e4	1.947e3	1.335e3	1.46	NO	3.282e3	4.7306	4.7306	0.206
7 2,3,4,7,8-PeCDF	30.95	5.760e4	3.903e4	3.221e3	2.146e3	1.50	NO	5.367e3	7.1628	7.1628	0.189
8 Total Penta-Furans	31.81	3.393e3	2.737e3	2.637e2	2.136e2	1.23	YES	0.000e0	0.00000	0.62542	0.206

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Furans	32.20	1.637e4	1.203e4	7.418e2	6.117e2	1.21	NO	1.353e3	1.9761	1.9761	0.398
2 Total Hexa-Furans	32.38	5.110e4	4.390e4	2.721e3	2.143e3	1.27	NO	4.864e3	7.1016	7.1016	0.398
3 Total Hexa-Furans	33.05	4.639e4	3.933e4	2.703e3	2.137e3	1.27	NO	4.840e3	7.0662	7.0662	0.398
4 Total Hexa-Furans	33.44	2.100e3	2.730e3	1.269e2	9.345e1	1.36	NO	2.204e2	0.32176	0.32176	0.398
5 1,2,3,4,7,8-HxCDF	33.54	1.790e5	1.427e5	1.055e4	8.319e3	1.27	NO	1.887e4	28.944	28.944	0.381
6 1,2,3,6,7,8-HxCDF	33.70	5.865e4	4.505e4	3.395e3	2.711e3	1.25	NO	6.105e3	8.4367	8.4367	0.356
7 2,3,4,6,7,8-HxCDF	34.44	9.879e3	1.067e4	3.776e2	3.469e2	1.09	NO	7.245e2	1.0454	1.0454	0.386
8 Total Hexa-Furans	34.45	1.217e4	9.443e3	5.176e2	4.225e2	1.23	NO	9.401e2	1.3726	1.3726	0.398
9 1,2,3,7,8,9-HxCDF	35.56	1.548e4	1.040e4	5.050e2	4.281e2	1.18	NO	9.331e2	1.5923	1.5923	0.544
10 Total Hexa-Furans	35.57	1.559e4	9.889e3	7.205e2	5.073e2	1.42	NO	0.000e0	0.00000	1.7926	0.398

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1,2,3,4,6,7,8-HpCDF	37.15	9.345e4	9.684e4	6.588e3	6.540e3	1.01	NO	1.313e4	23.846	23.846	0.323
2 Total Hepta-Furans	37.73	7.212e4	7.060e4	6.192e3	5.994e3	1.03	NO	1.219e4	24.288	24.288	0.430
3 1,2,3,4,7,8,9-HpCDF	39.13	1.801e4	1.788e4	1.894e3	1.852e3	1.02	NO	3.746e3	8.0821	8.0821	0.546

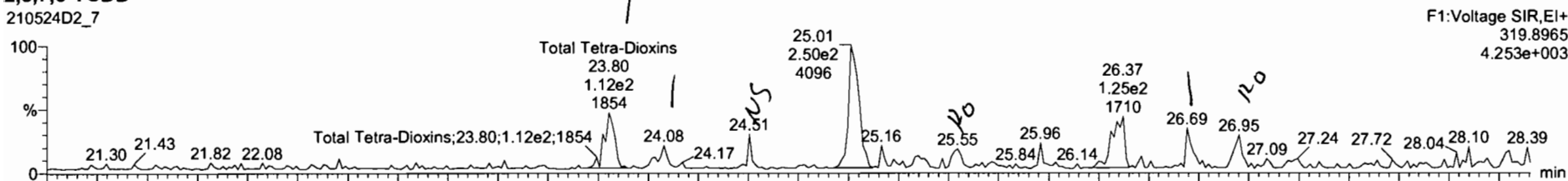
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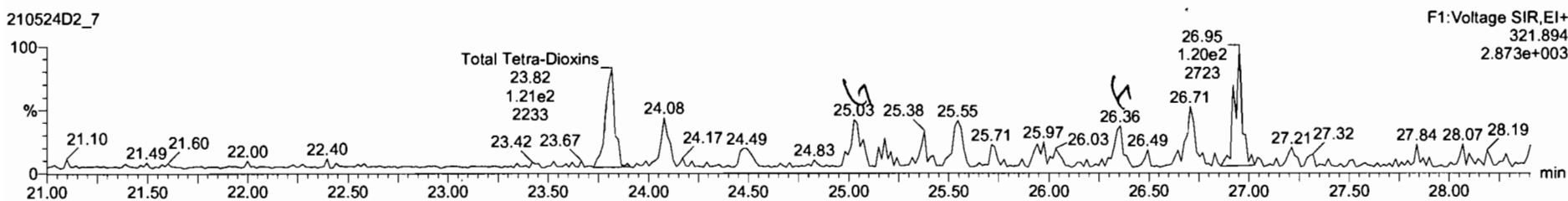
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Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429

2,3,7,8-TCDD
210524D2_7



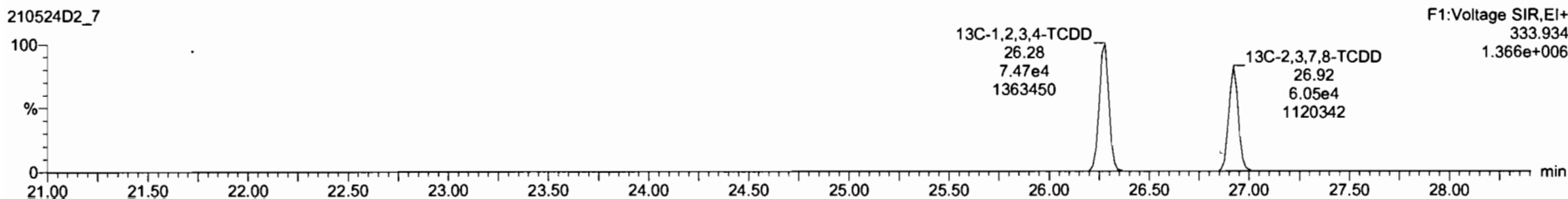
210524D2_7



13C-2,3,7,8-TCDD
210524D2_7



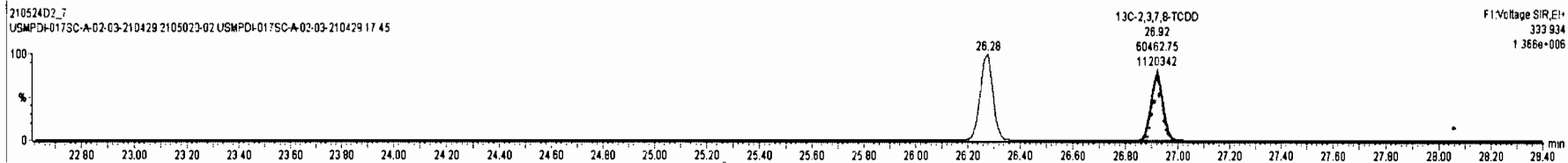
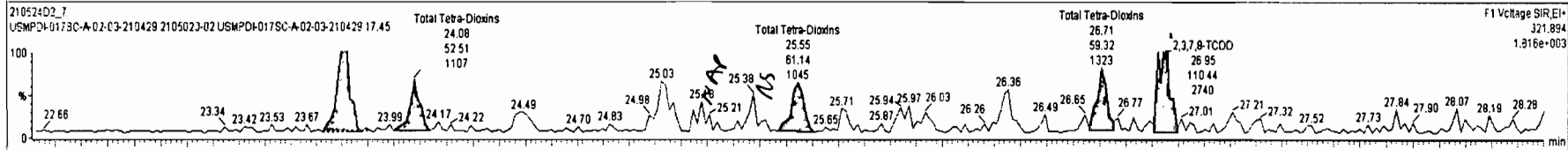
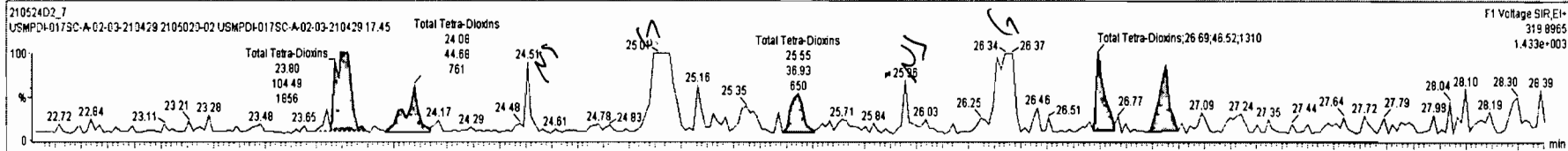
210524D2_7



210524D2_7 - 2105023-02 USMPDI-017SC-A-02-03-210429 17.45 - USMFCID-017SC-A-02-03-210429

Name	Resp	RA	nly	RRF	wtWtd	RT	RRT	Conc.	%Rec	DL	EMPC
24	13C-OCDD	1.07e5	0.86	NO	0.45	10.010	41.90	1.232	308	77.2	0.941
25	13C-2,3,7,8-TCDF	1.81e5	0.77	NO	1.09	10.010	26.34	1.002	150	74.8	0.365
26	13C-1,2,3,7,8-PeCDF	1.49e5	1.62	NO	0.80	10.010	29.96	1.140	166	83.1	0.816
27	13C-2,3,4,7,8-PeCDF	1.44e5	1.63	NO	0.79	10.010	30.93	1.177	164	82.3	0.829
28	13C-1,2,3,4,7,8-HxCDF	1.25e5	0.50	NO	1.00	10.010	33.53	0.966	164	81.8	0.876
29	13C-1,2,3,6,7,8-HxCDF	1.35e5	0.50	NO	1.03	10.010	33.67	0.990	171	85.5	0.849

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	23.80	1.045e2	1.209e2	0.86	NO	0.39712	0.39712
2 Total Tetra-Dioxins	24.08	4.468e1	5.251e1	0.85	NO	0.17130	0.17130
3 Total Tetra-Dioxins	25.55	3.693e1	6.114e1	0.60	YES	0.14962	0.00000
4 Total Tetra-Dioxins	26.89	4.652e1	5.932e1	0.78	NO	0.18653	0.18653
5 2,3,7,8-TCDD	26.95	5.072e1	1.104e2	0.46	YES	0.20551	0.00000

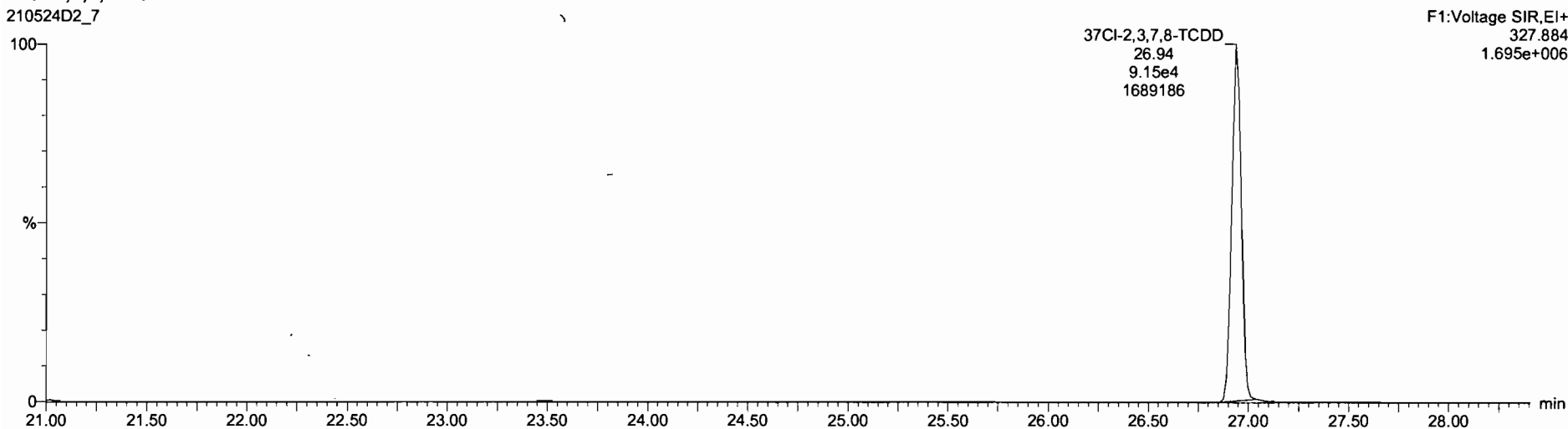


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Printed: Wednesday, May 26, 2021 12:10:21 Pacific Daylight Time

Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429

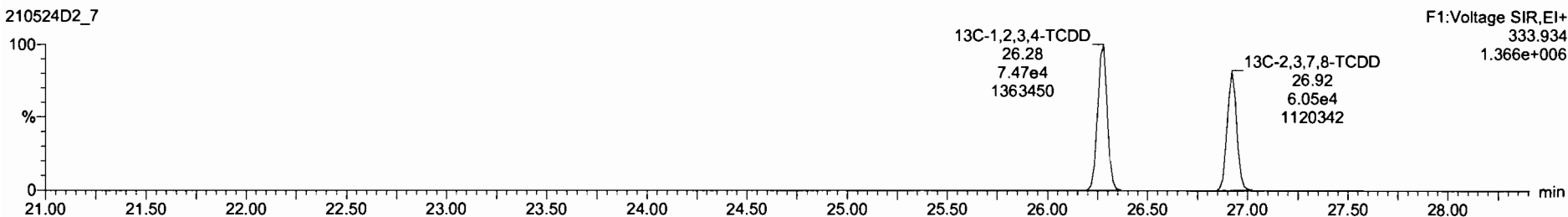
37Cl-2,3,7,8-TCDD
210524D2_7



13C-1,2,3,4-TCDD
210524D2_7



210524D2_7

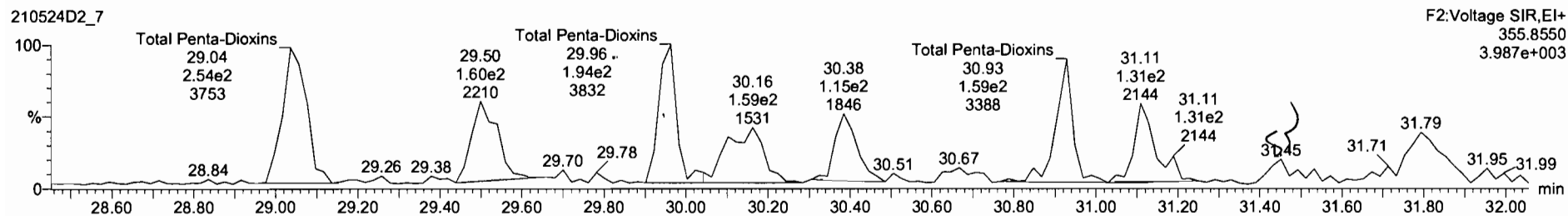
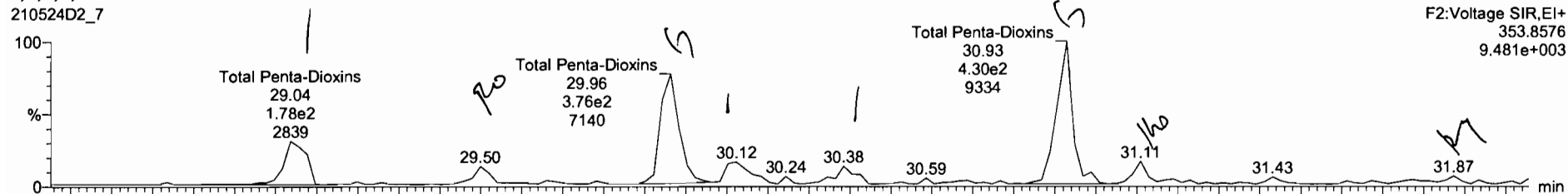


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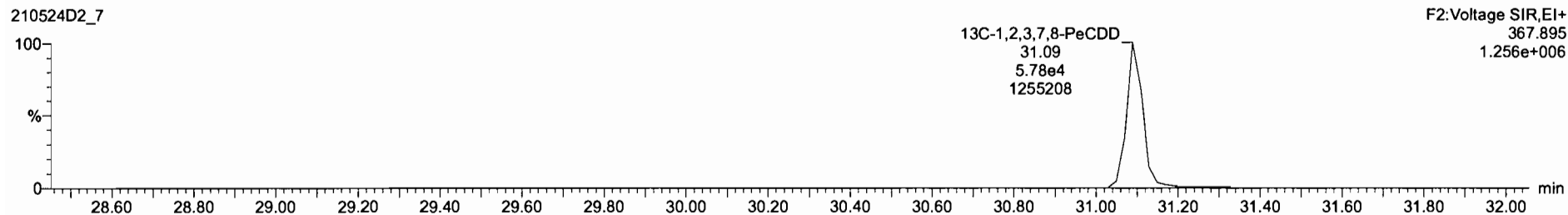
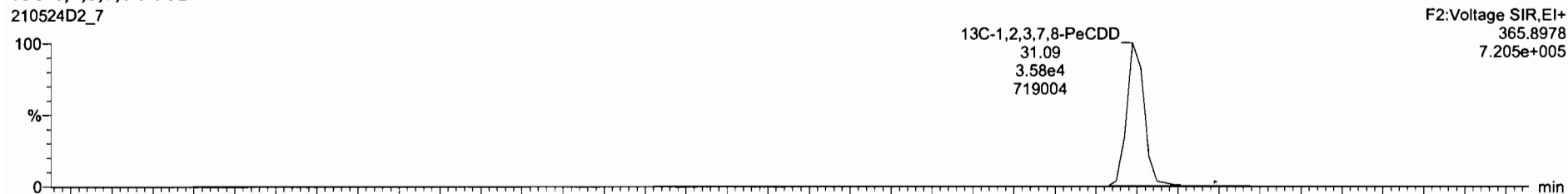
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Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429

1,2,3,7,8-PeCDD



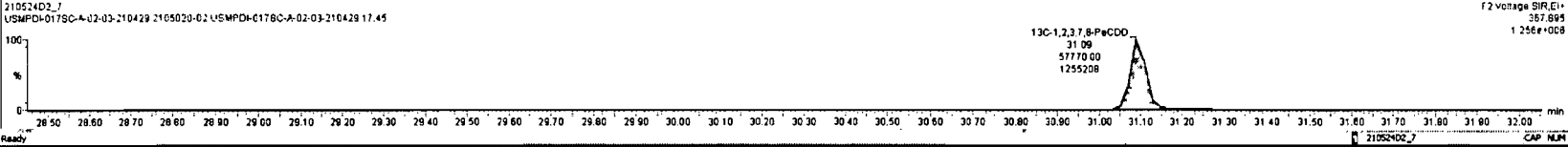
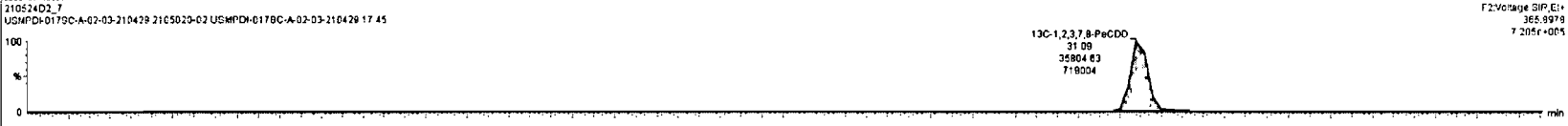
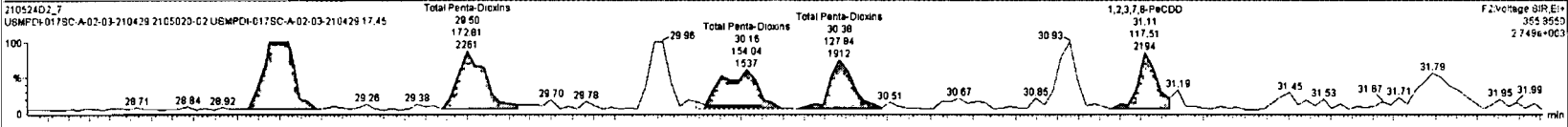
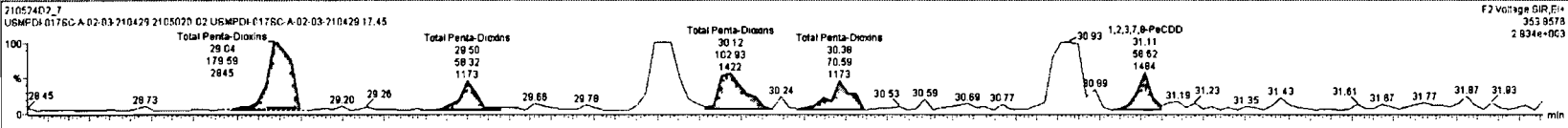
13C-1,2,3,7,8-PeCDD



21052402_7 - 2105020-02 USMPDI-017SC-A-02-03-210429 17.45 - USMPDI-017SC-A-02-02-210429

Name	Resp	RA	nV	RF	uSec	RT	RRT	Conc	%Rec	CL	EMPC
40 Total Penta-Dioxins				0.80	10.010			1.53	0.184	2.89	
41 Total Hexa-Dioxins				1.01	10.010			22.0	0.593	22.0	
42 Total Hepta-Dioxins				1.07	10.010			110	1.02	110	
43 Total Tetra-Furans				0.86	10.010			25.5	0.152	25.9	
44 1st Func. Penta-Furans				0.95	10.010			3.19	0.0857	3.19	
45 Total Penta-Furans				0.95	10.010			36.8	0.206	36.2	

Name	RT1	m1 Resp	m2 Resp	RA	nV	EMPC	Conc.
1 Total Penta-Dioxins	29.04	1.786e2	7.543e2	0.71	NO	1.0513	1.0513
2 Total Penta-Dioxins	29.50	5.852e1	1.728e2	0.34	YES	0.36558	0.00000
3 Total Penta-Dioxins	30.12	1.059e2	1.549e2	0.67	NO	0.62257	0.00000
4 Total Penta-Dioxins	30.38	7.059e1	1.278e2	0.55	NO	0.48073	0.48073
5 1,2,3,7,8-PeCDD	31.11	5.862e1	1.175e2	0.50	YES	0.36746	0.00000

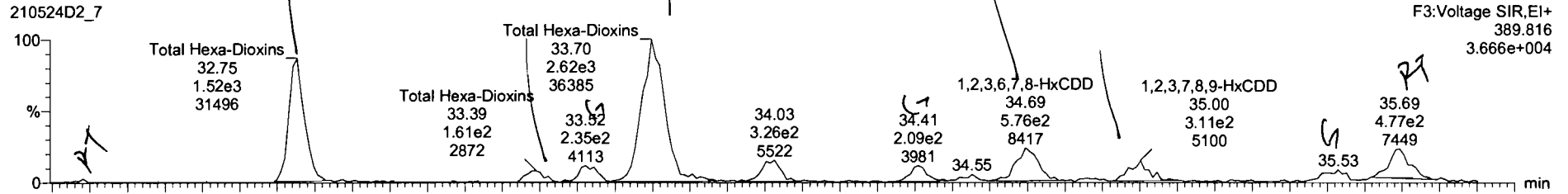


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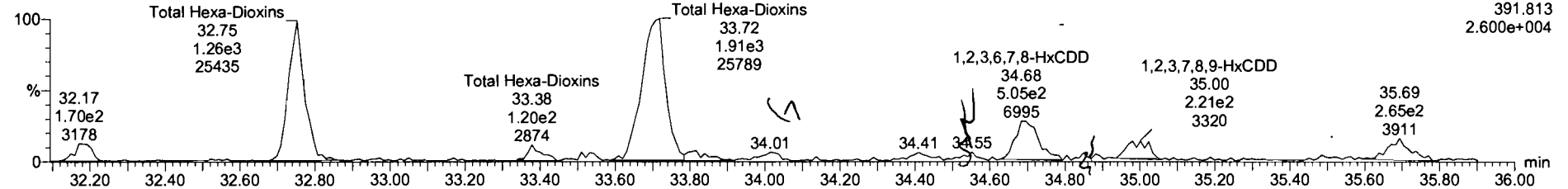
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Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429

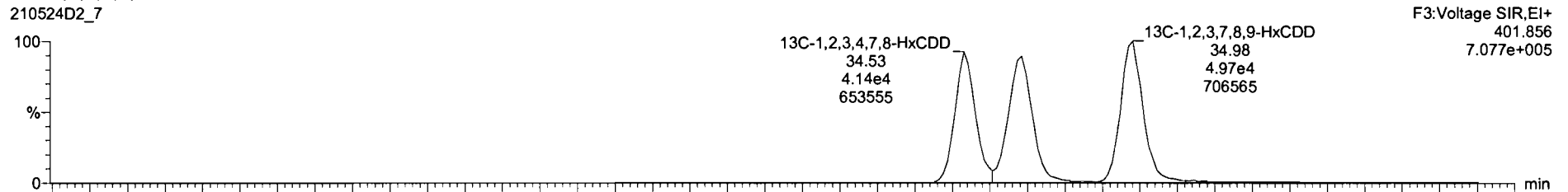
1,2,3,4,7,8-HxCDD



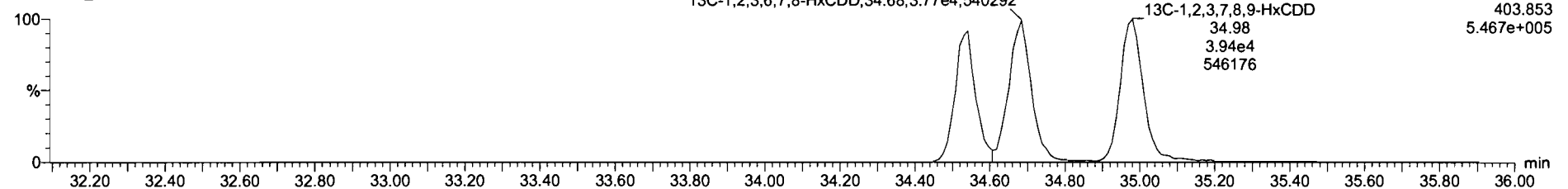
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13C-1,2,3,4,7,8-HxCDD

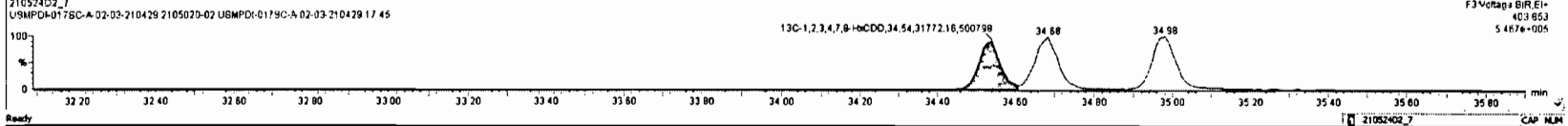
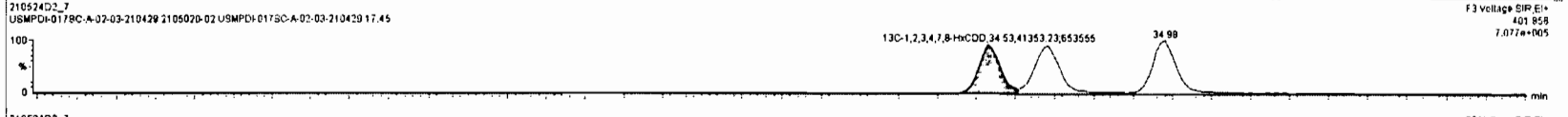
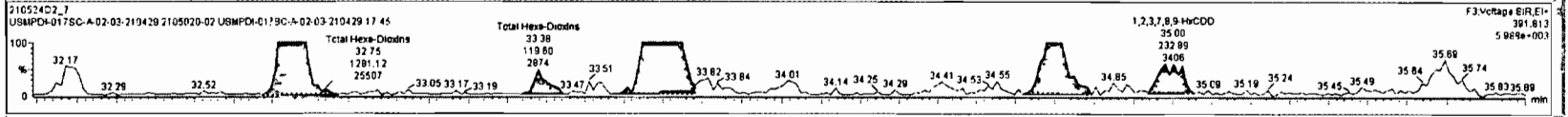
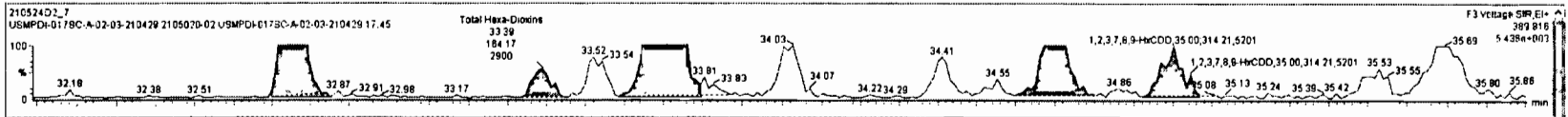


210524D2_7



Name	Resp	RA	n/y	RR'	wt/vol	RT	RR1	Conc.	%Rec	DL	EMPC
26	13C-1,2,3,7,8-PeCDF	1.45e5	1.52	NO	0.90	10.010	29.96	1.140	166	83.1	0.818
27	13C-2,3,4,7,8-PeCDF	1.44e5	1.63	NO	0.79	10.010	30.83	1.177	164	82.3	0.820
28	13C-1,2,3,4,7,8-HxCDF	1.25e5	0.90	NO	1.00	10.010	33.53	0.986	164	81.8	0.876
29	13C-1,2,3,6,7,8-HxCDF	1.25e5	0.90	NO	1.03	10.010	33.87	0.980	171	86.5	0.949
30	13C-2,3,4,6,7,8-HxCDF	1.24e5	0.51	NO	0.94	10.010	34.41	1.012	172	88.2	0.929
31	13C-1,2,3,7,8,9-HxCDF	1.07e5	0.49	NO	0.85	10.010	35.52	1.044	163	81.7	1.02

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.75	1.554e3	1.281e3	1.21	NO	8.8141	8.8141
2 Total Hexa-Dioxins	33.38	1.842e2	1.195e2	1.37	NO	0.68213	0.68213
3 Total Hexa-Dioxins	33.75	2.585e3	1.917e3	1.34	NO	10.775	10.775
4 1,2,3,6,7,8-HxCDD	34.88	5.807e2	5.279e2	1.10	NO	2.5854	2.5854
5 1,2,3,7,8,9-HxCDD	35.00	3.142e2	2.329e2	1.35	NO	1.2028	1.2028



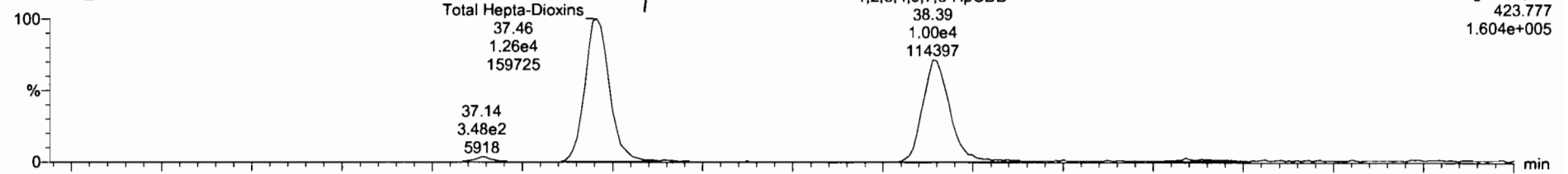
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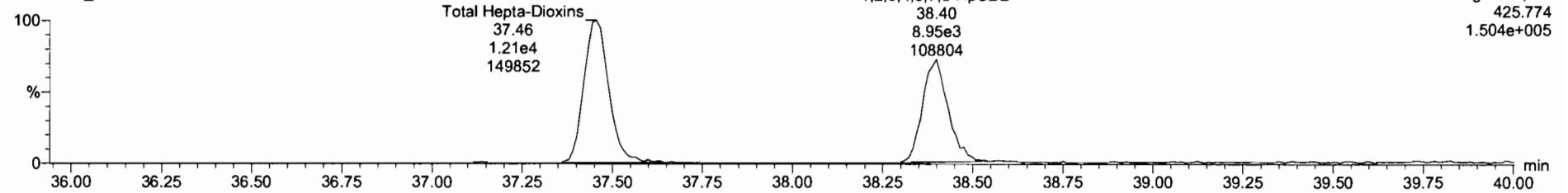
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1,2,3,4,6,7,8-HpCDD

210524D2_7

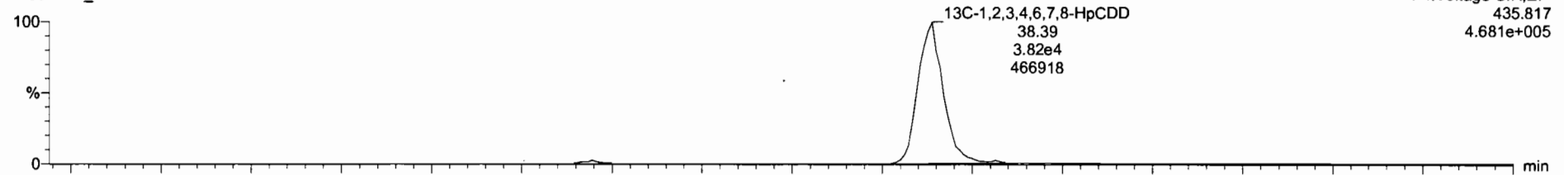


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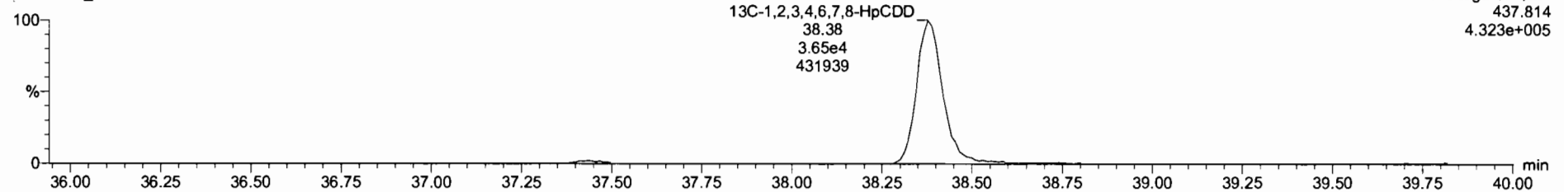


13C-1,2,3,4,6,7,8-HpCDD

210524D2_7



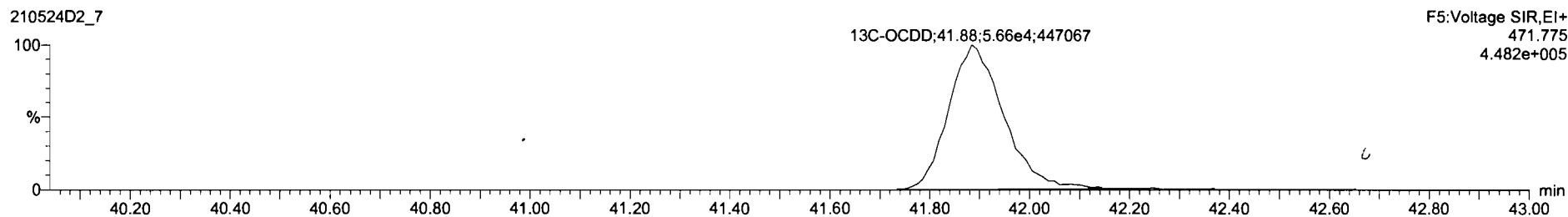
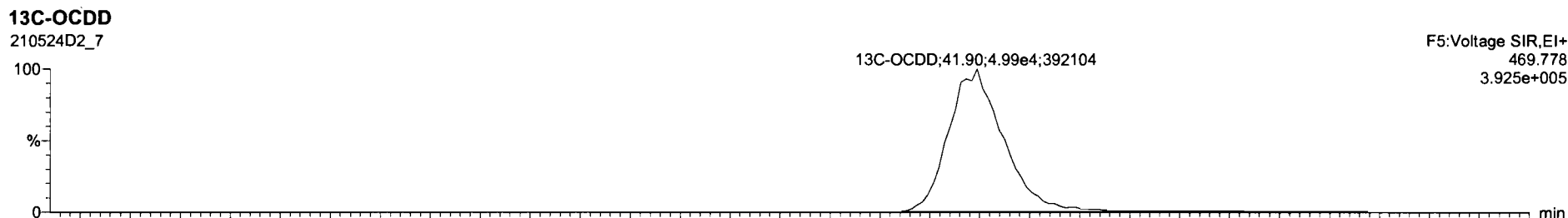
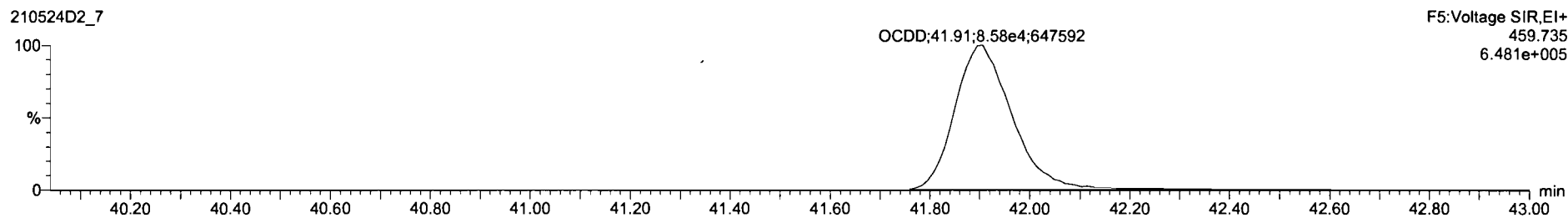
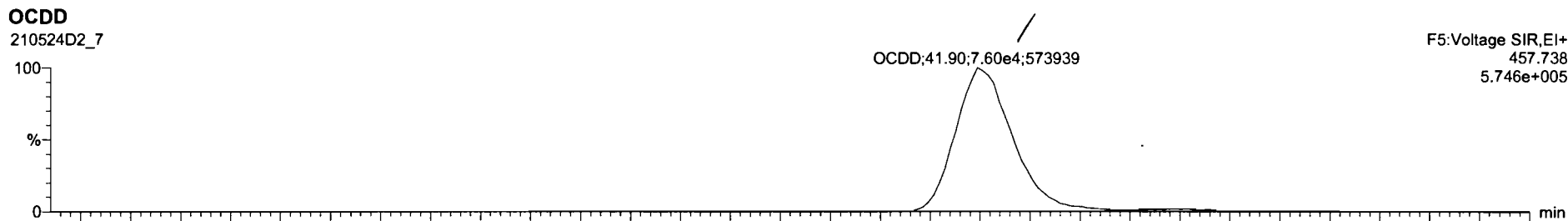
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Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429

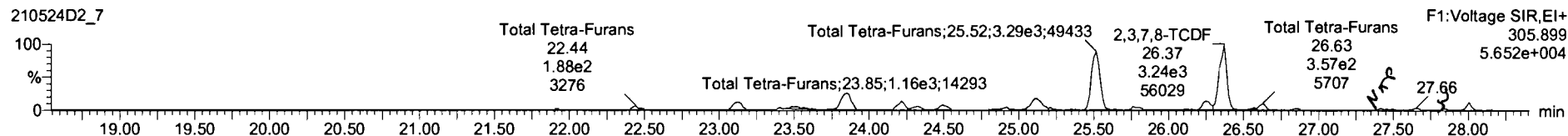
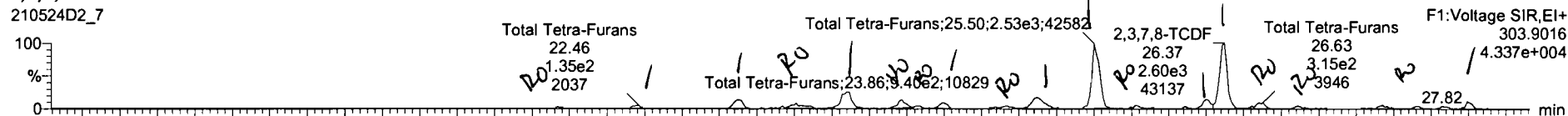


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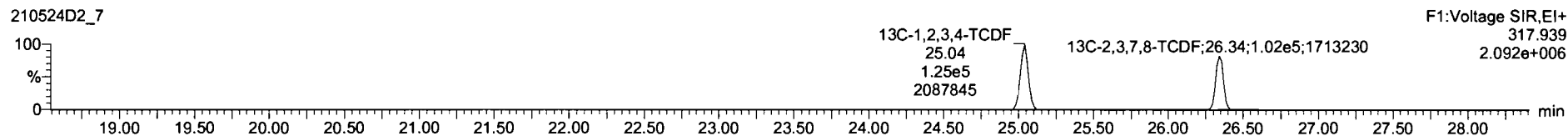
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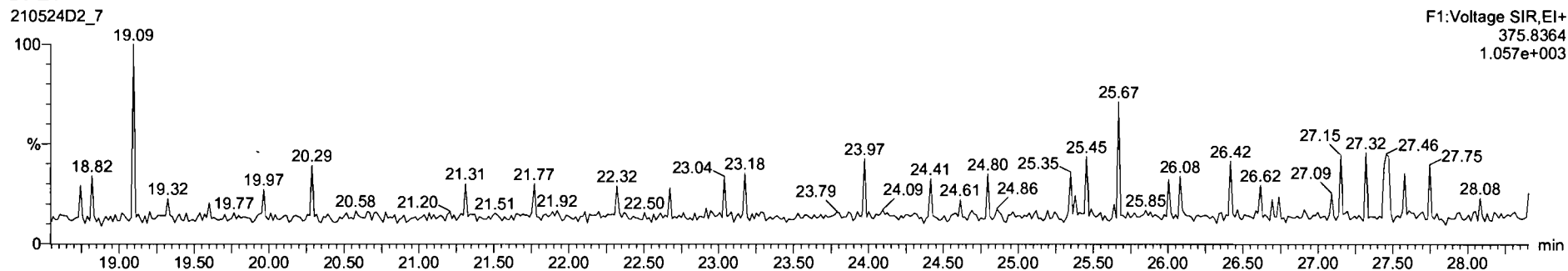
2,3,7,8-TCDF



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



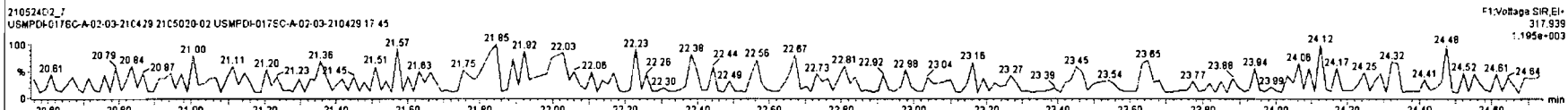
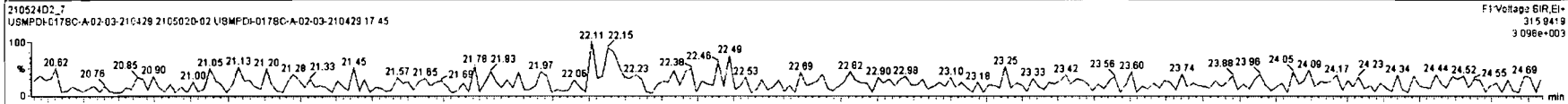
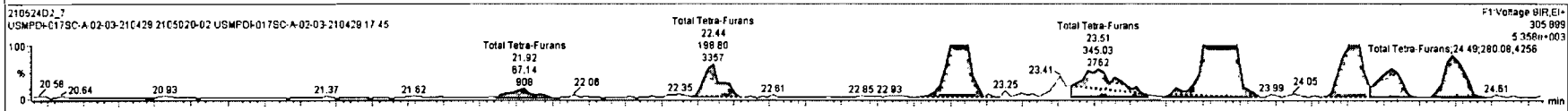
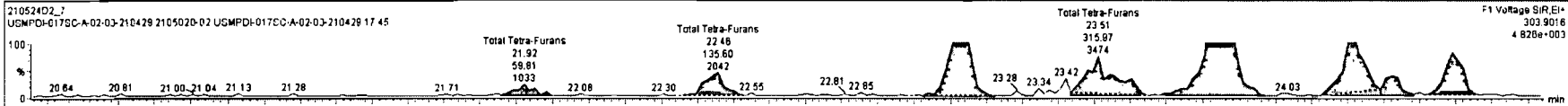
DPE1



21052402_7 - 2105020-02 USMPDI-017SC-A-02-03-210429 17 45 - USMPDI-017SC-A-02-03-210429

Name	Resp	RA	nHy	RPF	wtVnd	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins		1.07	10.010			110			1.02	110	
43 Total Tetra-Furans		0.86	10.010			23.8		0.152	27.8		
44 1st Func. Penta-Furans		0.95	10.010			3.19		0.0657	3.19		
45 Total Penta-Furans		0.95	10.010			30.8		0.206	30.2		
46 Total Hexa-Furans		1.12	10.010			55.4		0.398	56.9		
47 Total Hepta-Furans		1.16	10.010			56.2		0.430	56.2		

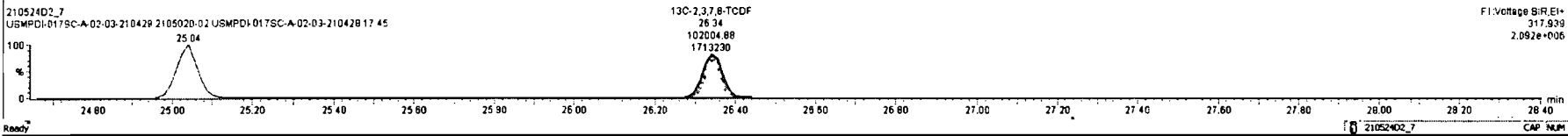
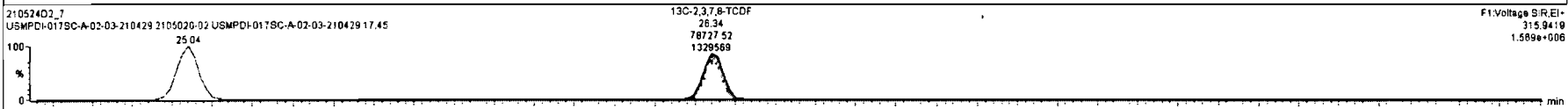
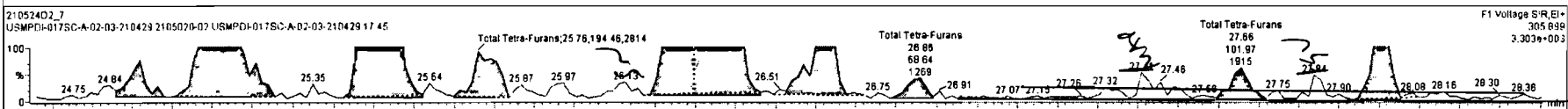
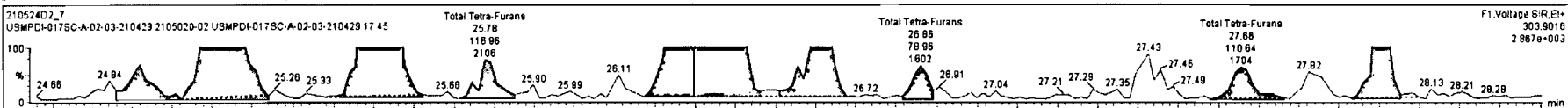
Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 Total Tetra-Furans	21.92	5.991e1	8.714e1	0.89	YES	0.15211	0.00000
2 Total Tetra-Furans	22.46	1.356e2	1.986e2	0.68	NO	0.42801	0.42801
3 Total Tetra-Furans	23.13	4.361e2	4.975e2	0.86	NO	1.1949	1.1949
4 Total Tetra-Furans	23.51	3.160e2	3.450e2	0.92	YES	0.76166	0.00000
5 Total Tetra-Furans	23.86	9.404e2	1.205e3	0.78	NO	2.7507	2.7507
6 Total Tetra-Furans	24.22	3.929e2	4.303e2	0.91	YES	0.97493	0.00000
7 Total Tetra-Furans	24.32	9.542e1	2.180e2	0.44	YES	0.28075	0.00000
8 Total Tetra-Furans	24.49	2.264e2	2.801e2	0.81	NO	0.64829	0.64829
9 Total Tetra-Furans	24.92	1.273e2	1.166e2	1.09	YES	0.26408	0.00000
10 Total Tetra-Furans	25.12	7.148e2	8.850e2	0.80	NO	2.0801	2.0801
11 Total Tetra-Furans	25.50	2.546e3	3.307e3	0.77	NO	7.4919	7.4919



21052402_7 - 2105020-02 USMPDI-017SC-A-02-03-210429 17:45 - USMPDI-017SC-A-02-03-210429

Name	Resp	RA	n/y	RRF	wtAvd	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxane				1.07	10.010			110	1.02	110	
43 Total Tetra-Furans				0.86	10.010			23.9	0.152	27.8	
44 1st Func. Penta-Furans				0.95	10.010			3.19	0.0657	3.19	
45 Total Penta-Furans				0.95	10.010			36.8	0.206	36.2	
46 Total Hexa-Furans				1.12	10.010			55.4	0.398	56.9	
47 Total Hepta-Furans				1.16	10.010			58.2	0.430	58.2	

Name	RT +/-	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.52	5.981e1	6.714e1	0.89	YES	0.15211	0.00000
2 Total Tetra-Furans	22.46	1.356e2	1.980e2	0.88	NO	0.42801	0.42801
3 Total Tetra-Furans	23.13	4.361e2	4.975e2	0.88	NO	1.1949	1.1949
4 Total Tetra-Furans	23.51	3.160e2	3.450e2	0.92	YES	0.78186	0.00000
5 Total Tetra-Furans	23.86	9.404e2	1.208e3	0.78	NO	2.7507	2.7507
6 Total Tetra-Furans	24.22	3.928e2	4.303e2	0.91	YES	0.97493	0.00000
7 Total Tetra-Furans	24.32	9.542e1	2.180e2	0.44	YES	0.28075	0.00000
8 Total Tetra-Furans	24.49	2.264e2	2.801e2	0.81	NO	0.64829	0.64829
9 Total Tetra-Furans	24.92	1.272e2	1.186e2	1.09	YES	0.26408	0.00000
10 Total Tetra-Furans	25.12	7.146e2	8.950e2	0.80	NO	2.0601	2.0601
11 Total Tetra-Furans	25.50	2.546e3	3.307e3	0.77	NO	7.4919	7.4919



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-7.qld

Last Altered: Wednesday, May 26, 2021 12:10:01 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:10:21 Pacific Daylight Time

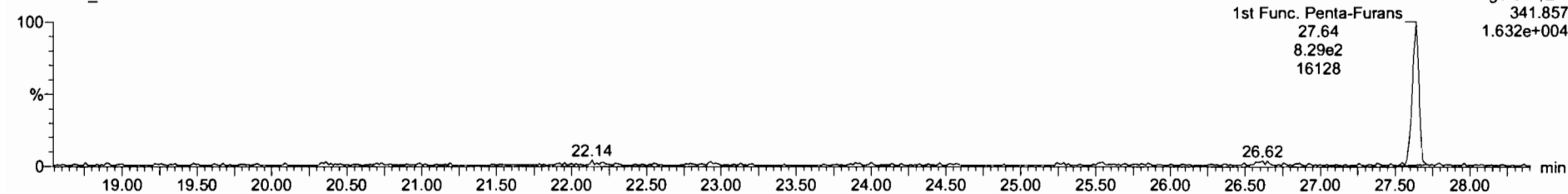
Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429

1st Func. Penta-Furans

210524D2_7

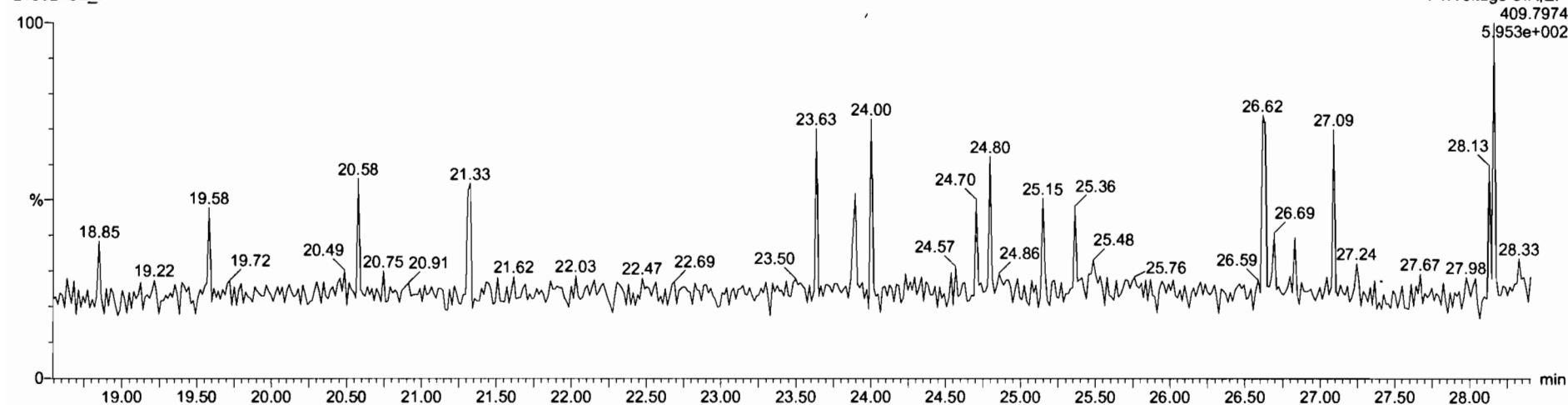


210524D2_7



DPE6

210524D2_7



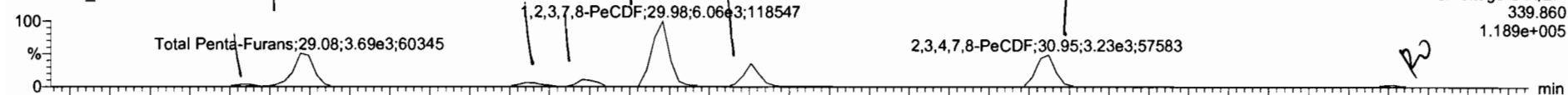
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Printed: Wednesday, May 26, 2021 12:10:21 Pacific Daylight Time

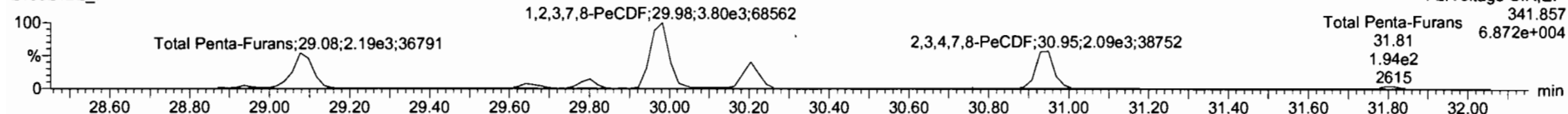
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1,2,3,7,8-PeCDF

210524D2_7



210524D2_7

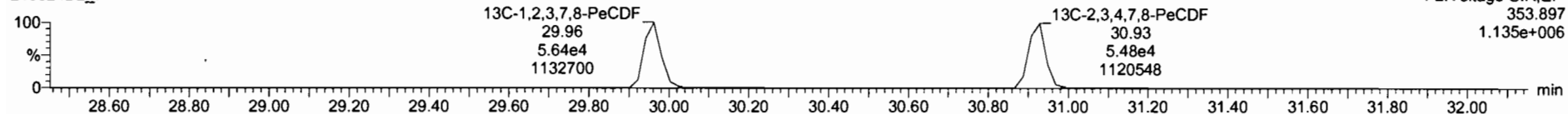


13C-1,2,3,7,8-PeCDF

210524D2_7

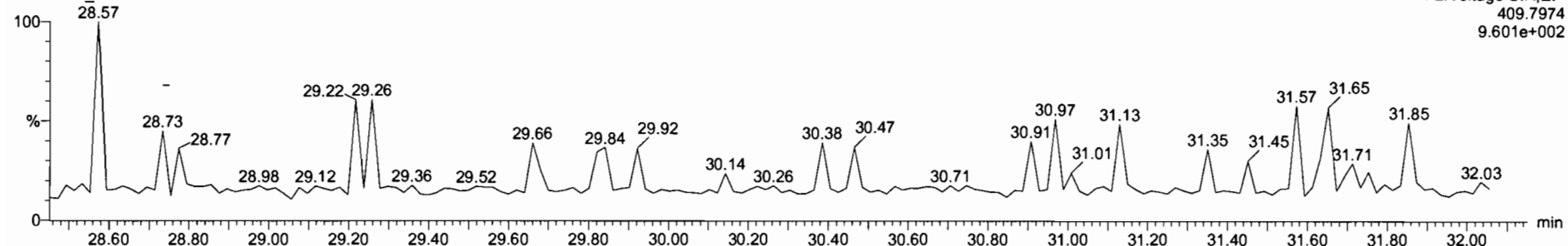


210524D2_7



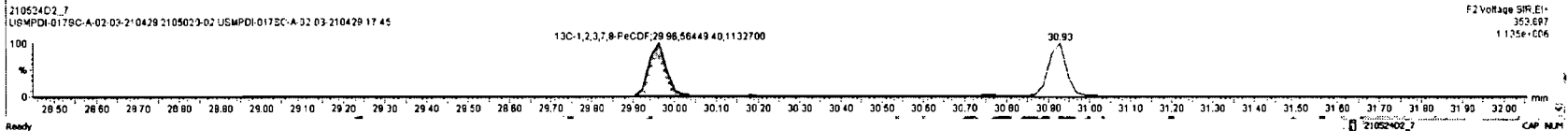
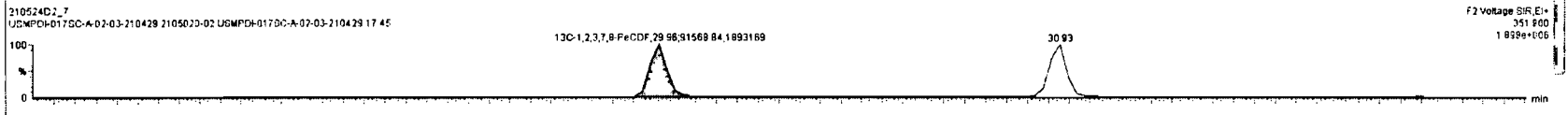
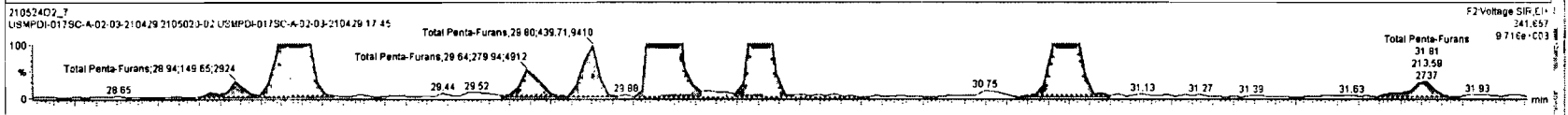
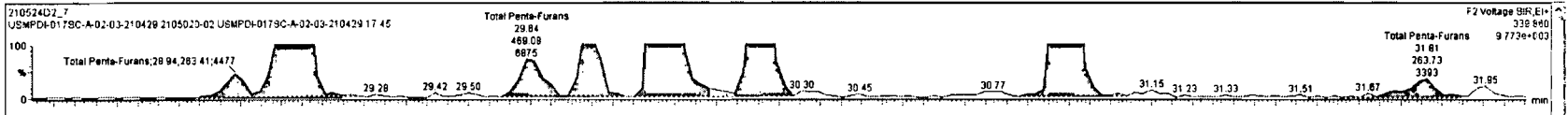
DPE2

210524D2_7



Name	Resp	RA	nly	RRF	wt%	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Furans				1.07	10.010			110		1.02	110
43 Total Tetra-Furans				0.86	10.010			23.9		0.152	27.8
44 1st Func. Penta-Furans				0.95	10.010			3.18		0.0857	31.0
45 Total Penta-Furans				0.95	10.010			97.7		0.206	98.3
46 Total Hexa-Furans				1.12	10.010			55.4		0.398	56.9
47 Total Hepta-Furans				1.16	10.010			56.2		0.430	56.2

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.84	2.834e2	1.495e2	1.76	NO	0.59541	0.59541
2 Total Penta-Furans	29.08	3.722e3	2.221e3	1.06	NO	8.5665	8.5665
3 Total Penta-Furans	29.84	4.891e2	2.799e2	1.68	NO	1.0787	1.0787
4 Total Penta-Furans	29.78	6.939e2	4.397e2	1.58	NO	1.8336	1.8336
5 1,2,3,7,8-PeCDF	29.98	6.018e3	3.740e3	1.81	NO	13.888	13.888
6 Total Penta-Furans	30.20	1.947e3	1.305e3	1.46	NO	4.7306	4.7306
7 2,3,4,7,8-PeCDF	30.95	3.221e3	2.146e3	1.50	NO	7.1628	7.1628
8 Total Penta-Furans	31.81	2.837e2	2.136e2	1.23	YES	0.82542	0.00000

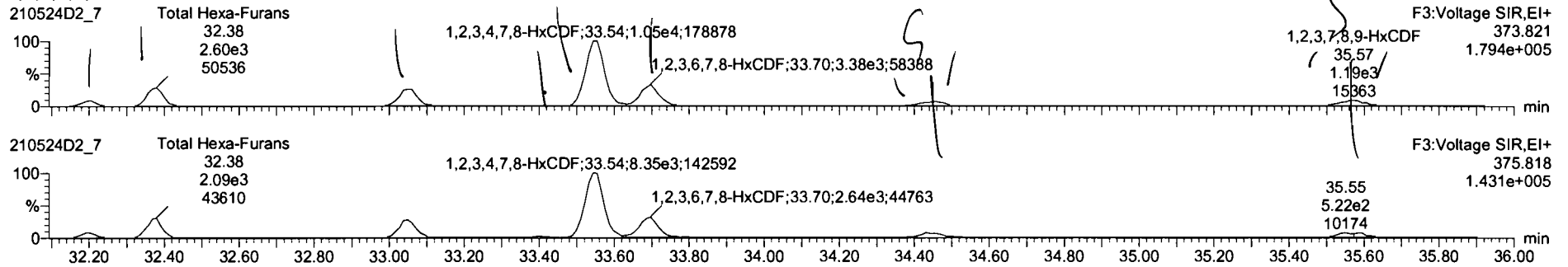


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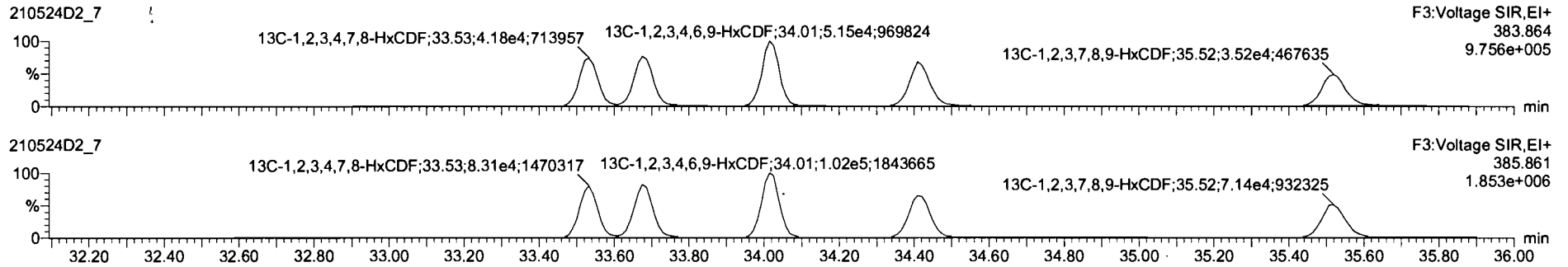
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Printed: Wednesday, May 26, 2021 12:10:21 Pacific Daylight Time

Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429

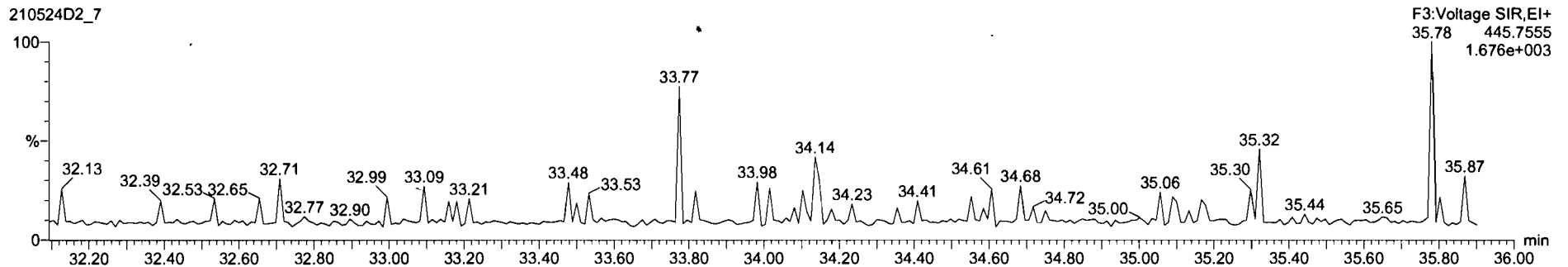
1,2,3,4,7,8-HxCDF



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

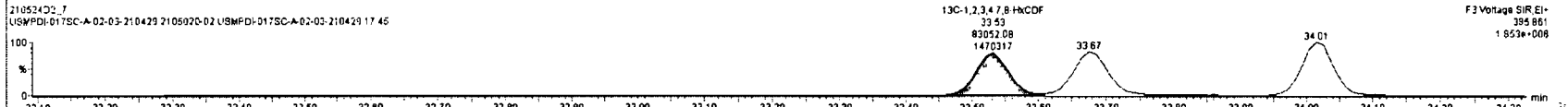
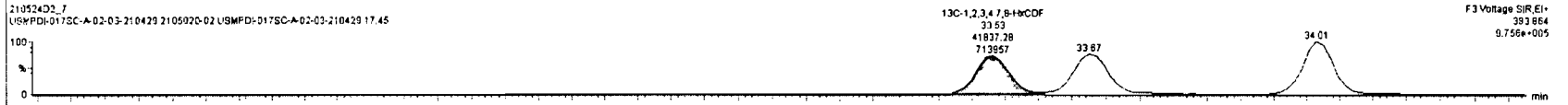
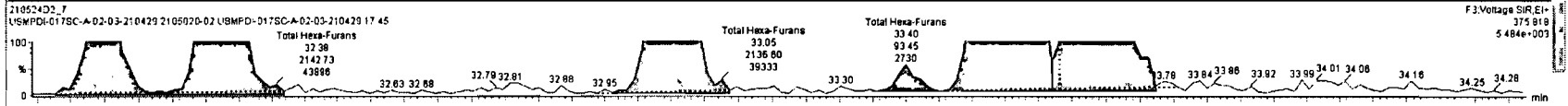
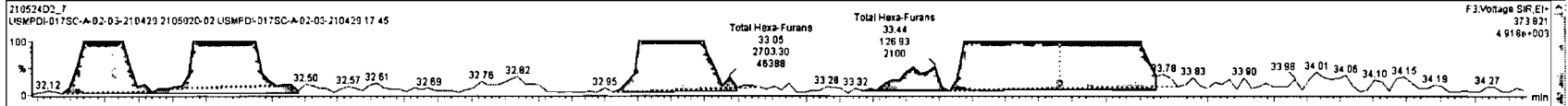


DPE3



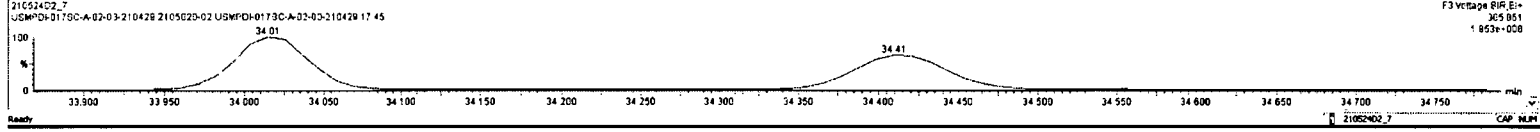
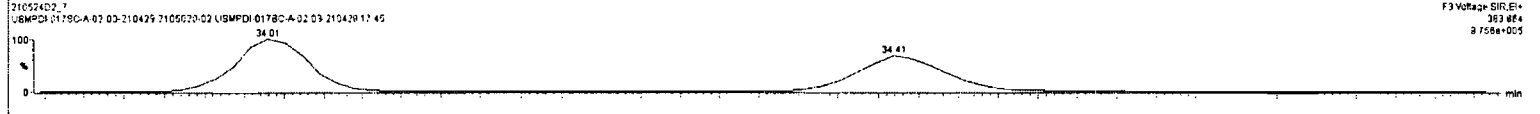
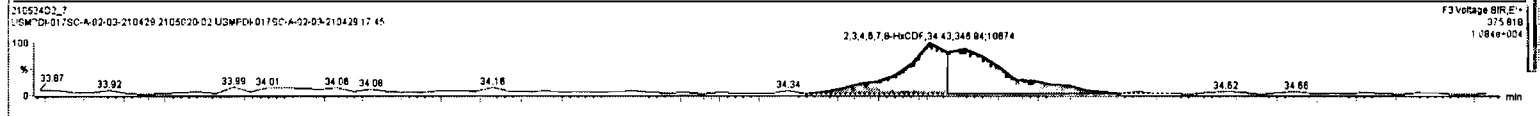
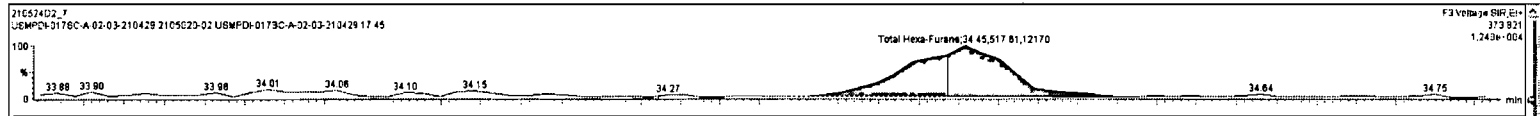
Name	Resp	RA	nHy	RPF	Vol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.010			110		1.02	110
43 Total Tetra-Furans				0.86	10.010			23.9		0.152	27.8
44 1st Func. Penta-Furans				0.95	10.010			3.19		0.0657	3.19
45 Total Penta-Furans				0.95	10.010			37.7		0.206	36.3
46 Total Hexa-Furans				1.12	10.010			67.9		0.398	59.8
47 Total Hepta-Furans				1.16	10.010			56.2		0.430	56.2

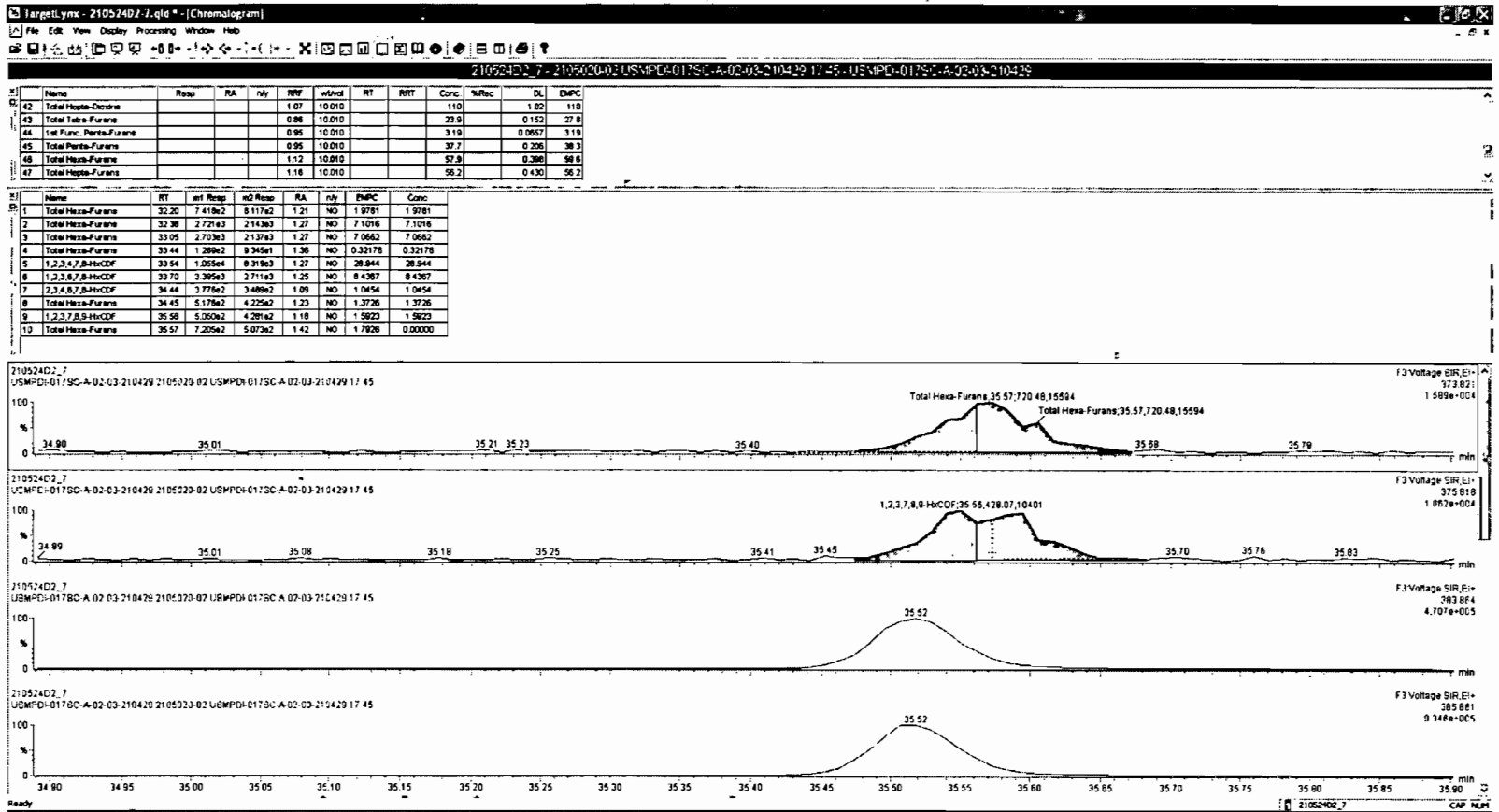
Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 Total Hexa-Furans	32.20	7.418e2	6.117e2	1.21	NO	1.9761	1.9761
2 Total Hexa-Furans	32.36	2.721e3	2.143e3	1.27	NO	7.1016	7.1016
3 Total Hexa-Furans	33.05	2.703e3	2.137e3	1.27	NO	7.0662	7.0662
4 Total Hexa-Furans	33.44	1.269e2	9.345e1	1.36	NO	0.32176	0.32176
5 1,2,3,4,7,8-HxCDF	33.54	1.056e4	8.319e3	1.27	NO	26.944	26.944
6 1,2,3,6,7,8-HxCDF	33.70	3.395e3	2.711e3	1.25	NO	8.4367	8.4367
7 2,3,4,6,7,8-HxCDF	34.44	3.778e2	3.469e2	1.09	NO	1.0454	1.0454
8 Total Hexa-Furans	34.45	5.178e2	4.225e2	1.23	NO	1.3726	1.3726
9 1,2,3,7,8,9-HxCDF	35.56	5.050e2	4.261e2	1.18	NO	1.5623	1.5623
10 Total Hexa-Furans	35.57	7.205e2	5.073e2	1.42	NO	1.7926	0.00000



Name	Resp	RA	nHy	NW	WtAdj	RT	NWT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.010			110		1.02	110
43 Total Tetra-Furans				0.86	10.010			23.9		0.152	27.8
44 1st Func. Penta-Furans				0.85	10.010			3.19		0.0657	3.18
45 Total Penta-Furans				0.95	10.010			31.7		0.206	36.3
46 Total Hexa-Furans				1.12	10.010			57.9		0.396	59.6
47 Total Hepta-Furans				1.16	10.010			56.2		0.430	56.2

Name	RT	Int Resp	Int Resp	RA	nHy	EMPC	Conc.
1 Total Hexa-Furans	32.20	7.418e2	8.117e2	1.21	NO	1.8761	1.9761
2 Total Hexa-Furans	32.26	2.721e3	2.143e3	1.27	NO	7.1018	7.1018
3 Total Hexa-Furans	33.05	3.703e3	2.137e3	1.77	NO	7.0862	7.0862
4 Total Hexa-Furans	33.44	1.209e2	8.345e1	1.36	NO	0.32178	0.32178
5 1,2,3,4,7,8-HxCDF	33.54	1.055e4	8.319e3	1.27	NO	28.944	28.944
6 1,2,3,6,7,8-HxCDF	33.70	3.395e3	2.711e3	1.25	NO	8.4367	8.4367
7 2,3,4,6,7,8-HxCDF	34.44	3.776e2	3.469e2	1.09	NO	1.0454	1.0454
8 Total Hexa-Furans	34.45	5.178e2	4.229e2	1.23	NO	1.3726	1.3726
9 1,2,3,7,8-HxCDF	35.56	5.050e2	4.261e2	1.18	NO	1.5623	1.5623
10 Total Hexa-Furans	35.57	7.205e2	5.073e2	1.42	NO	1.7926	0.00000



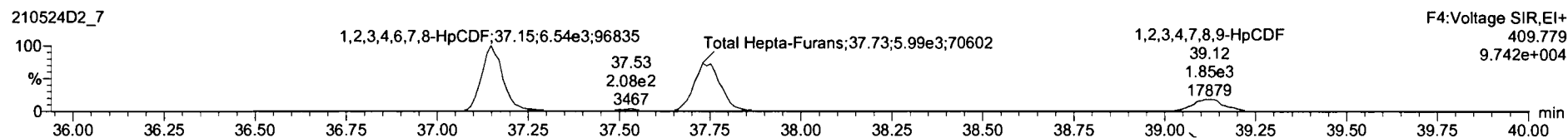
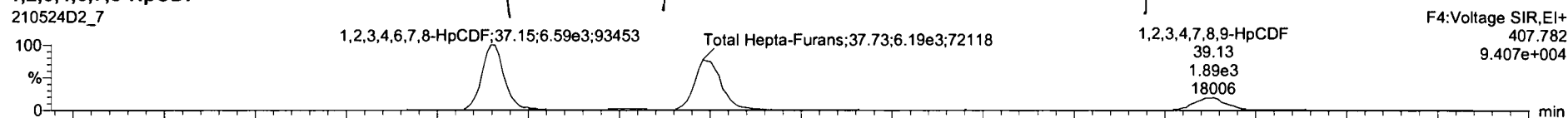


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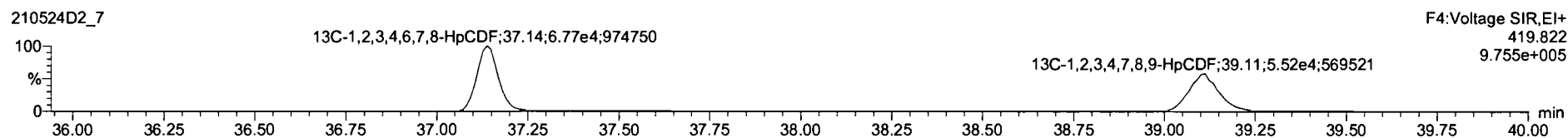
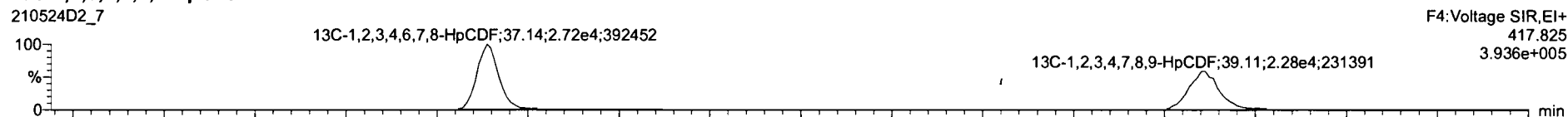
Last Altered: Wednesday, May 26, 2021 12:10:01 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:10:21 Pacific Daylight Time

Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429

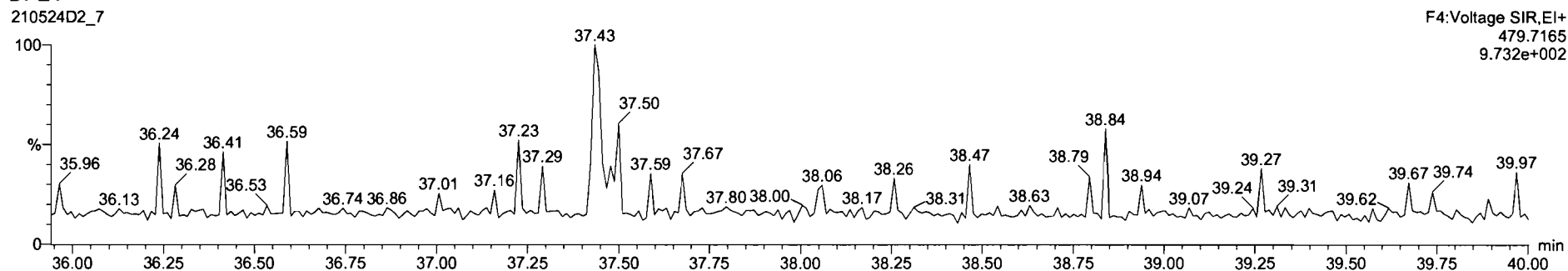
1,2,3,4,6,7,8-HpCDF



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



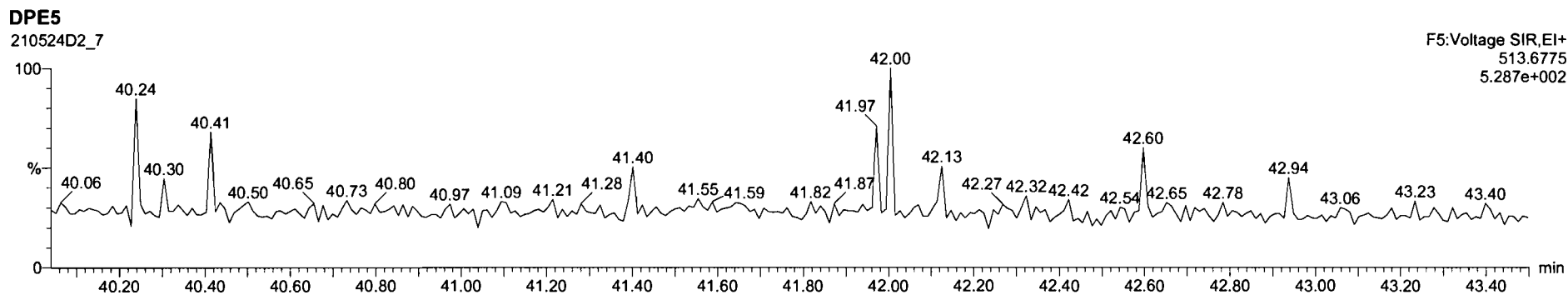
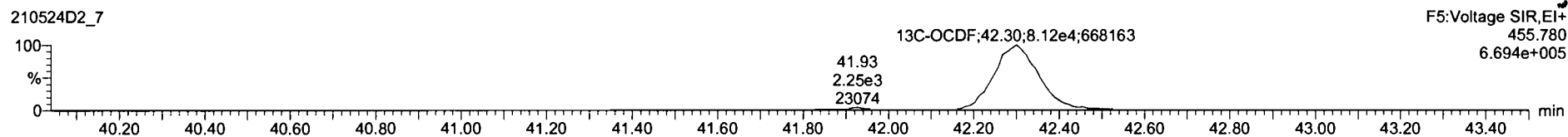
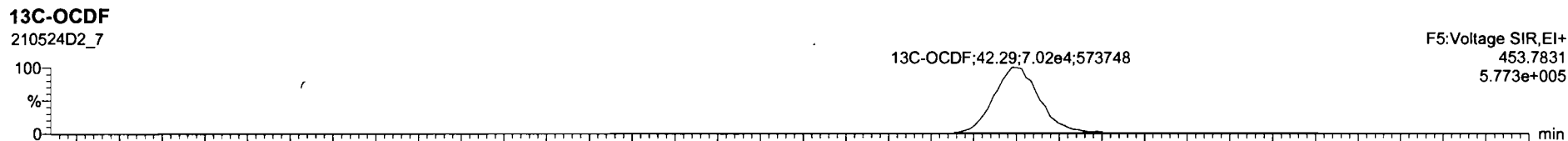
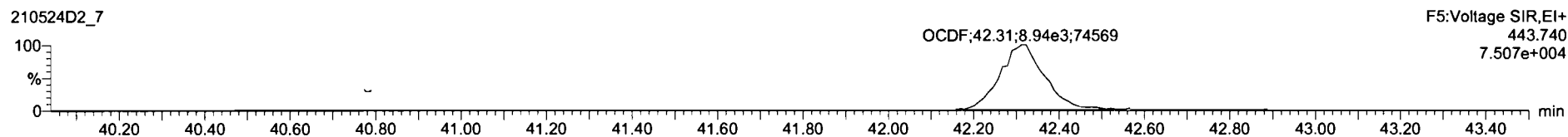
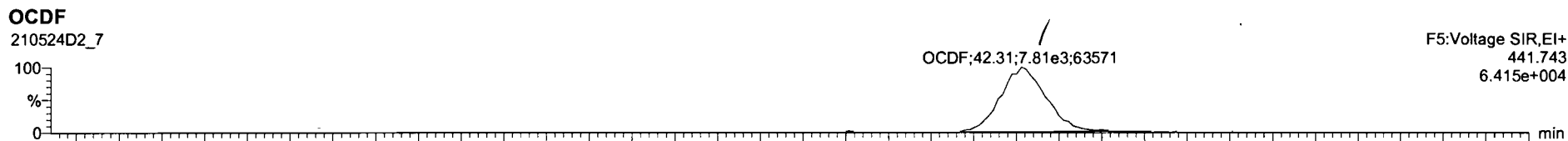
DPE4



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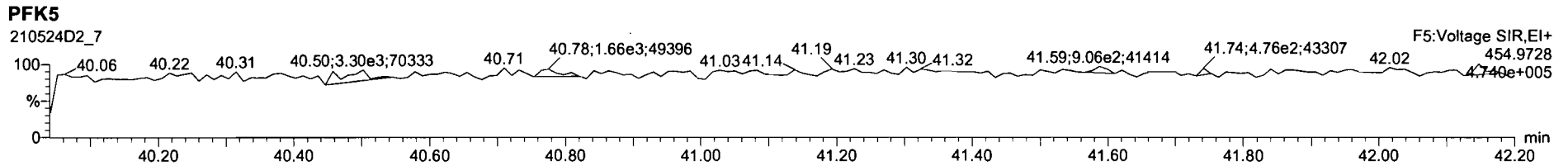
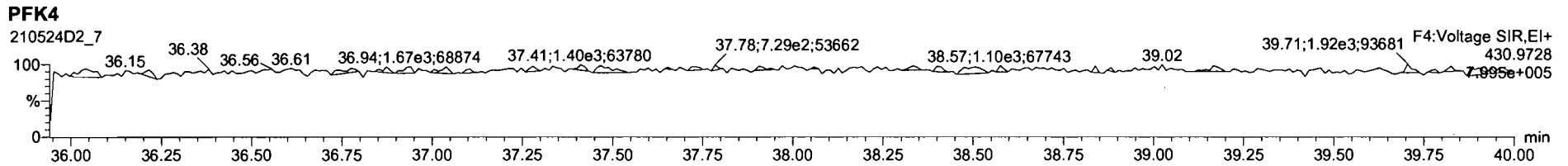
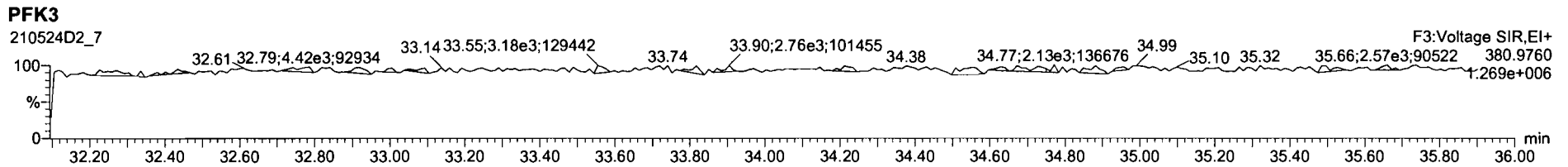
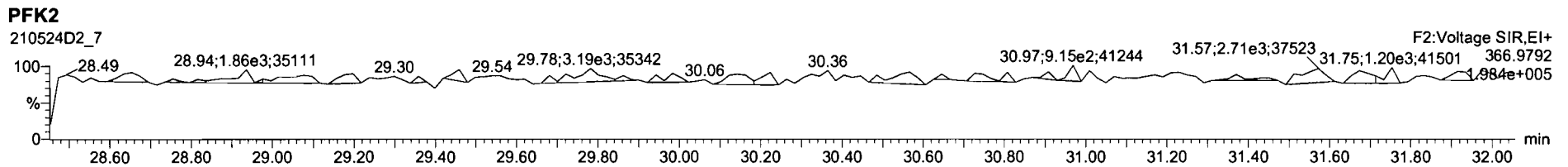
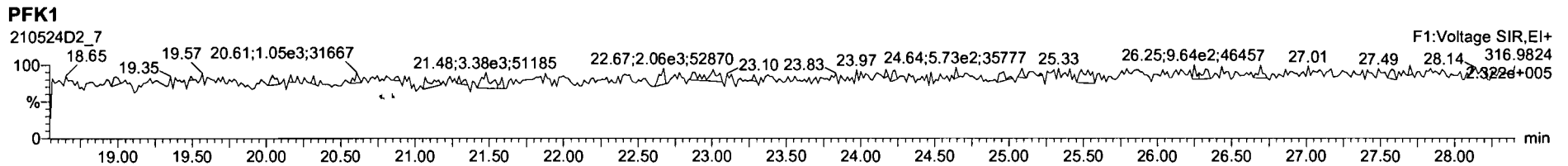
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Dataset: U:\VG7.PRO\Results\210524D2\210524D2-7.qld

Last Altered: Wednesday, May 26, 2021 12:10:01 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:10:21 Pacific Daylight Time

Name: 210524D2_7, Date: 24-May-2021, Time: 23:50:03, ID: 2105020-02 USMPDI-017SC-A-02-03-210429 17.45, Description: USMPDI-017SC-A-02-03-210429



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-8.qld

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Printed: Wednesday, June 09, 2021 14:51:56 Pacific Daylight Time

HL 6-9-2021

C106/10/2021

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_8, Date: 25-May-2021, Time: 00:36:39, ID: 2105020-03 USMPDI-017SC-A-12-13-210429 15.97, Description: USMPDI-017SC-A-12-13-210429, Task: ST210524D2-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DI	EMPC
1 2,3,7,8-TCDD	2.72e2	0.45	YES	1.05	10.102	26.95	1.001	0.40983		0.107	0.293
2 1,2,3,7,8-PeCDD	3.36e2	0.83	YES	0.881	10.102	31.09	1.001	0.75847		0.164	0.678
3 1,2,3,4,7,8-HxCDD	2.08e2	1.19	NO	1.14	10.102	34.52	1.001	0.47339		0.522	0.473
4 1,2,3,6,7,8-HxCDD	2.15e3	1.30	NO	1.01	10.102	34.65	1.001	4.9905		0.575	4.99
5 1,2,3,7,8,9-HxCDD	6.44e2	1.28	NO	1.02	10.102	34.97	1.001	1.4707		0.609	1.47
6 1,2,3,4,6,7,8-HpCDD	8.57e4	1.04	NO	1.07	10.102	38.32	1.000	239.64		1.78	240
7 OCDD	3.91e5	0.89	NO	1.00	10.102	41.93	1.000	2505.6		5.38	2510
8 2,3,7,8-TCDF	6.07e3	0.80	NO	0.864	10.102	26.36	1.001	6.6057		0.148	6.61
9 1,2,3,7,8-PeCDF	6.09e3	1.50	NO	0.948	10.102	29.98	1.001	8.0226		0.267	8.02
10 2,3,4,7,8-PeCDF	8.63e3	1.69	NO	1.04	10.102	30.95	1.001	10.459		0.237	10.5
11 1,2,3,4,7,8-HxCDF	7.50e3	1.25	NO	1.04	10.102	33.54	1.000	10.706		0.300	10.7
12 1,2,3,6,7,8-HxCDF	3.24e3	1.31	NO	1.07	10.102	33.69	1.000	4.3460		0.294	4.35
13 2,3,4,6,7,8-HxCDF	1.95e3	1.23	NO	1.12	10.102	34.41	1.001	2.9332		0.339	2.93
14 1,2,3,7,8,9-HxCDF	2.54e2	1.23	NO	1.10	10.102	35.52	1.001	0.41279		0.426	0.413
15 1,2,3,4,6,7,8-HpCDF	5.14e4	1.03	NO	1.16	10.102	37.13	1.000	101.85		0.490	102
16 1,2,3,4,7,8,9-HpCDF	1.60e3	0.98	NO	1.19	10.102	39.04	1.000	3.5429		0.610	3.54
17 OCDF	1.93e4	0.90	NO	0.909	10.102	42.29	1.001	71.070		0.648	71.1
18 13C-2,3,7,8-TCDD	1.25e5	0.77	NO	1.15	10.102	26.92	1.025	167.99	84.9	0.365	
19 13C-1,2,3,7,8-PeCDD	9.95e4	0.63	NO	0.887	10.102	31.07	1.183	172.11	86.9	0.319	
20 13C-1,2,3,4,7,8-HxCDD	7.62e4	1.25	NO	0.645	10.102	34.50	1.015	145.71	73.6	0.615	
21 13C-1,2,3,6,7,8-HxCDD	8.43e4	1.34	NO	0.717	10.102	34.63	1.018	145.15	73.3	0.554	
22 13C-1,2,3,7,8,9-HxCDD	8.50e4	1.31	NO	0.714	10.102	34.95	1.028	146.96	74.2	0.556	
23 13C-1,2,3,4,6,7,8-HpCDD	6.65e4	1.02	NO	0.583	10.102	38.31	1.127	140.64	71.0	0.725	
24 13C-OCDD	6.16e4	0.93	NO	0.451	10.102	41.92	1.233	168.36	42.5	0.610	
25 13C-2,3,7,8-TCDF	2.10e5	0.78	NO	1.09	10.102	26.34	1.003	159.60	80.6	0.311	
26 13C-1,2,3,7,8-PeCDF	1.58e5	1.60	NO	0.805	10.102	29.96	1.141	162.89	82.3	0.624	
27 13C-2,3,4,7,8-PeCDF	1.57e5	1.63	NO	0.792	10.102	30.91	1.177	164.39	83.0	0.634	
28 13C-1,2,3,4,7,8-HxCDF	1.33e5	0.50	NO	0.997	10.102	33.53	0.986	164.57	83.1	0.773	
29 13C-1,2,3,6,7,8-HxCDF	1.37e5	0.51	NO	1.03	10.102	33.67	0.990	164.67	83.2	0.750	
30 13C-2,3,4,6,7,8-HxCDF	1.18e5	0.51	NO	0.940	10.102	34.39	1.011	155.10	78.3	0.821	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-8.qld

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Name: 210524D2_8, Date: 25-May-2021, Time: 00:36:39, ID: 2105020-03 USMPDI-017SC-A-12-13-210429 15.97, Description: USMPDI-017SC-A-12-13-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.11e5	0.49	NO	0.852	10.102	35.50	1.044	160.80	81.2	0.905	
32	13C-1,2,3,4,6,7,8-HpCDF	8.62e4	0.42	NO	0.727	10.102	37.12	1.092	146.25	73.9	0.736	
33	13C-1,2,3,4,7,8,9-HpCDF	7.55e4	0.42	NO	0.608	10.102	39.03	1.148	153.22	77.4	0.880	
34	13C-OCDF	1.18e5	0.88	NO	0.631	10.102	42.27	1.243	231.65	58.5	0.425	
35	37Cl-2,3,7,8-TCDD	1.01e5			2.22	10.102	26.95	1.026	69.546	87.8	0.0461	
36	13C-1,2,3,4-TCDD	1.29e5	0.83	NO	1.00	10.102	26.26	1.000	197.98	100	0.418	
37	13C-1,2,3,4-TCDF	2.39e5	0.78	NO	1.00	10.102	25.04	1.000	197.98	100	0.339	
38	13C-1,2,3,4,6,9-HxCDF	1.60e5	0.50	NO	1.00	10.102	34.00	1.000	197.98	100	0.771	
39	Total Tetra-Dioxins				1.05	10.102			0.98583		0.107	4.47
40	Total Penta-Dioxins				0.881	10.102			5.9001		0.161	12.9
41	Total Hexa-Dioxins				1.01	10.102			67.640		0.593	67.6
42	Total Hepta-Dioxins				1.07	10.102			581.50		1.78	581
43	Total Tetra-Furans				0.864	10.102			47.807		0.148	51.4
44	1st Func. Penta-Furans				0.948	10.102			33.623		0.0816	33.6
45	Total Penta-Furans				0.948	10.102			51.039		0.263	52.0
46	Total Hexa-Furans				1.12	10.102			110.53		0.326	111
47	Total Hepta-Furans				1.16	10.102			225.51		0.553	226

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-8.qld

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Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
 Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_8, Date: 25-May-2021, Time: 00:36:39, ID: 2105020-03 USMPDI-017SC-A-12-13-210429 15.97, Description: USMPDI-017SC-A-12-13-210429,
 Task: ST210524D2-1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	23.79	9.603e3	1.120e4	6.547e2	7.265e2	0.90	YES	0.000e0	0.00000	1.9366	0.107
2	Total Tetra-Dioxins	24.52	8.650e2	1.767e3	6.198e1	8.598e1	0.72	NO	1.480e2	0.22284	0.22284	0.107
3	Total Tetra-Dioxins	25.18	1.337e3	1.712e3	7.419e1	9.895e1	0.75	NO	1.731e2	0.26075	0.26075	0.107
4	Total Tetra-Dioxins	25.36	2.943e3	3.231e3	1.320e2	2.015e2	0.66	NO	3.335e2	0.50224	0.50224	0.107
5	Total Tetra-Dioxins	25.55	2.646e3	3.007e3	1.559e2	1.704e2	0.91	YES	0.000e0	0.00000	0.45422	0.107
6	Total Tetra-Dioxins	26.02	1.204e3	1.373e3	9.999e1	9.339e1	1.07	YES	0.000e0	0.00000	0.24894	0.107
7	Total Tetra-Dioxins	26.69	1.603e3	1.922e3	1.476e2	1.634e2	0.90	YES	0.000e0	0.00000	0.43555	0.107
8	2,3,7,8-TCDD	26.95	1.396e3	3.287e3	8.472e1	1.874e2	0.45	YES	2.721e2	0.00000	0.29330	0.107
9	Total Tetra-Dioxins	27.21	6.990e2	1.291e3	3.431e1	6.767e1	0.51	YES	0.000e0	0.00000	0.11877	0.107

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	29.06	9.964e3	1.824e4	7.261e2	1.253e3	0.58	NO	1.979e3	4.4660	4.4660	0.161
2	Total Penta-Dioxins	29.50	2.151e3	3.106e3	1.215e2	2.701e2	0.45	YES	0.000e0	0.00000	0.70929	0.161
3	Total Penta-Dioxins	29.96	1.603e4	1.570e4	8.450e2	8.557e2	0.99	YES	0.000e0	0.00000	3.1482	0.161
4	Total Penta-Dioxins	30.16	3.514e3	4.985e3	3.051e2	3.977e2	0.77	YES	0.000e0	0.00000	1.4632	0.161
5	Total Penta-Dioxins	30.39	3.285e3	4.977e3	2.038e2	3.232e2	0.63	NO	5.271e2	1.1896	1.1896	0.161
6	Total Penta-Dioxins	30.69	1.062e3	1.674e3	4.339e1	6.492e1	0.67	NO	1.083e2	0.24446	0.24446	0.161
7	1,2,3,7,8-PeCDD	31.09	3.109e3	4.028e3	1.522e2	1.843e2	0.83	YES	3.365e2	0.00000	0.67788	0.161
8	Total Penta-Dioxins	31.19	2.593e3	2.244e3	1.252e2	1.678e2	0.75	YES	0.000e0	0.00000	0.61751	0.161
9	Total Penta-Dioxins	31.43	1.913e3	1.683e3	8.551e1	1.125e2	0.76	YES	0.000e0	0.00000	0.41374	0.161

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.75	1.245e5	9.704e4	6.770e3	5.300e3	1.28	NO	1.207e4	28.887	28.887	0.593
2	Total Hexa-Dioxins	33.40	1.393e4	1.020e4	6.712e2	5.371e2	1.25	NO	1.208e3	2.8918	2.8918	0.593
3	Total Hexa-Dioxins	33.71	8.076e4	6.986e4	6.779e3	5.308e3	1.28	NO	1.209e4	28.927	28.927	0.593
4	1,2,3,4,7,8-HxCDD	34.52	2.695e3	1.931e3	1.131e2	9.511e1	1.19	NO	2.082e2	0.47339	0.47339	0.522
5	1,2,3,6,7,8-HxCDD	34.65	1.846e4	1.526e4	1.213e3	9.341e2	1.30	NO	2.148e3	4.9905	4.9905	0.575
6	1,2,3,7,8,9-HxCDD	34.97	4.744e3	5.339e3	3.615e2	2.824e2	1.28	NO	6.439e2	1.4707	1.4707	0.609

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.41	1.004e6	9.475e5	6.229e4	5.995e4	1.04	NO	1.222e5	341.86	341.86	1.78
2	1,2,3,4,6,7,8-HpCDD	38.32	5.930e5	5.544e5	4.378e4	4.191e4	1.04	NO	8.569e4	239.64	239.64	1.78

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Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Furans	21.92	3.538e3	3.055e3	2.493e2	2.800e2	0.89	YES	0.000e0	0.00000	0.53977	0.148
2 Total Tetra-Furans	22.44	6.704e3	7.140e3	5.074e2	6.426e2	0.79	NO	1.150e3	1.2525	1.2525	0.148
3 Total Tetra-Furans	23.11	5.368e4	7.094e4	3.949e3	5.056e3	0.78	NO	9.005e3	9.8072	9.8072	0.148
4 Total Tetra-Furans	23.44	2.844e3	3.309e3	1.941e2	2.841e2	0.68	NO	4.782e2	0.52084	0.52084	0.148
5 Total Tetra-Furans	23.51	2.580e3	3.644e3	2.204e2	2.651e2	0.83	NO	4.855e2	0.52878	0.52878	0.148
6 Total Tetra-Furans	23.57	2.475e3	2.403e3	1.223e2	1.566e2	0.78	NO	2.789e2	0.30376	0.30376	0.148
7 Total Tetra-Furans	23.85	2.436e4	3.395e4	1.954e3	2.583e3	0.76	NO	4.536e3	4.9405	4.9405	0.148
8 Total Tetra-Furans	24.20	3.491e4	4.436e4	2.480e3	3.034e3	0.82	NO	5.513e3	6.0045	6.0045	0.148
9 Total Tetra-Furans	24.51	3.101e3	4.504e3	2.216e2	2.822e2	0.79	NO	5.038e2	0.54874	0.54874	0.148
10 Total Tetra-Furans	24.81	8.600e2	2.198e3	4.487e1	9.768e1	0.46	YES	0.000e0	0.00000	0.11234	0.148
11 Total Tetra-Furans	24.90	2.755e3	5.567e3	2.152e2	2.844e2	0.76	NO	4.996e2	0.54410	0.54410	0.148
12 Total Tetra-Furans	25.15	3.209e4	4.529e4	2.416e3	3.222e3	0.75	NO	5.638e3	6.1400	6.1400	0.148
13 Total Tetra-Furans	25.33	3.508e3	4.266e3	2.193e2	2.386e2	0.92	YES	0.000e0	0.00000	0.46000	0.148
14 Total Tetra-Furans	25.50	4.191e4	5.164e4	2.501e3	3.172e3	0.79	NO	5.673e3	6.1784	6.1784	0.148
15 Total Tetra-Furans	25.77	3.470e3	3.946e3	2.173e2	2.199e2	0.99	YES	0.000e0	0.00000	0.42385	0.148
16 Total Tetra-Furans	25.87	1.616e3	1.699e3	6.218e1	9.046e1	0.69	NO	1.526e2	0.16624	0.16624	0.148
17 Total Tetra-Furans	25.96	1.243e3	6.680e2	5.794e1	3.686e1	1.57	YES	0.000e0	0.00000	0.071048	0.148
18 Total Tetra-Furans	26.11	2.140e3	3.173e3	1.433e2	1.823e2	0.79	NO	3.256e2	0.35459	0.35459	0.148
19 Total Tetra-Furans	26.23	1.049e4	1.053e4	5.696e2	6.715e2	0.85	NO	1.241e3	1.3518	1.3518	0.148
20 2,3,7,8-TCDF	26.36	4.688e4	5.458e4	2.700e3	3.366e3	0.80	NO	6.065e3	6.6057	6.6057	0.148
21 Total Tetra-Furans	26.63	4.618e3	4.535e3	3.163e2	3.100e2	1.02	YES	0.000e0	0.00000	0.59758	0.148
22 Total Tetra-Furans	26.84	1.296e3	1.397e3	1.191e2	1.331e2	0.89	YES	0.000e0	0.00000	0.25655	0.148
23 Total Tetra-Furans	27.33	5.693e3	4.763e3	2.363e2	2.676e2	0.88	NO	5.039e2	0.54880	0.54880	0.148
24 Total Tetra-Furans	27.47	9.460e3	1.029e4	5.146e2	5.667e2	0.91	YES	0.000e0	0.00000	1.0925	0.148
25 Total Tetra-Furans	27.64	9.428e3	1.434e4	5.833e2	7.577e2	0.77	NO	1.341e3	1.4605	1.4605	0.148
26 Total Tetra-Furans	28.01	4.097e3	4.952e3	2.219e2	2.834e2	0.78	NO	5.053e2	0.55031	0.55031	0.148

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1st Func. Penta-Furans	27.64	3.170e5	1.770e5	1.591e4	9.530e3	1.67	NO	2.544e4	33.623	33.623	0.0816

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Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Furans	28.94	1.057e4	7.163e3	5.186e2	3.658e2	1.42	NO	8.844e2	1.1689	1.1689	0.263
2 Total Penta-Furans	29.08	1.284e5	8.323e4	8.599e3	5.410e3	1.59	NO	1.401e4	18.517	18.517	0.263
3 Total Penta-Furans	29.64	5.900e4	3.493e4	3.173e3	2.024e3	1.57	NO	5.197e3	6.8687	6.8687	0.263
4 Total Penta-Furans	29.80	1.127e4	6.988e3	6.101e2	3.879e2	1.57	NO	9.980e2	1.3191	1.3191	0.263
5 1,2,3,7,8-PeCDF	29.98	7.462e4	4.765e4	3.650e3	2.441e3	1.50	NO	6.091e3	8.0226	8.0226	0.267
6 Total Penta-Furans	30.12	8.700e3	3.840e3	3.725e2	1.901e2	1.96	YES	0.000e0	0.00000	0.64059	0.263
7 Total Penta-Furans	30.20	3.628e4	2.294e4	1.980e3	1.223e3	1.62	NO	3.203e3	4.2333	4.2333	0.263
8 Total Penta-Furans	30.77	2.090e3	1.730e3	1.507e2	1.358e2	1.11	YES	0.000e0	0.00000	0.32779	0.263
9 2,3,4,7,8-PeCDF	30.95	9.946e4	5.583e4	5.423e3	3.205e3	1.69	NO	8.628e3	10.459	10.459	0.237
10 Total Penta-Furans	31.79	3.514e3	2.697e3	2.012e2	1.391e2	1.45	NO	3.403e2	0.44985	0.44985	0.263

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Furans	32.20	8.446e4	6.644e4	4.547e3	3.562e3	1.28	NO	8.109e3	11.509	11.509	0.326
2 Total Hexa-Furans	32.39	2.173e5	1.692e5	1.121e4	8.699e3	1.29	NO	1.991e4	28.256	28.256	0.326
3 Total Hexa-Furans	32.81	3.206e3	2.830e3	2.064e2	1.656e2	1.25	NO	3.720e2	0.52802	0.52802	0.326
4 Total Hexa-Furans	33.06	3.445e5	2.755e5	1.902e4	1.517e4	1.25	NO	3.419e4	48.524	48.524	0.326
5 Total Hexa-Furans	33.42	2.973e3	2.425e3	1.079e2	1.014e2	1.06	NO	2.092e2	0.29695	0.29695	0.326
6 1,2,3,4,7,8-HxCDF	33.54	7.915e4	6.142e4	4.165e3	3.337e3	1.25	NO	7.502e3	10.706	10.706	0.300
7 1,2,3,6,7,8-HxCDF	33.69	3.227e4	2.654e4	1.838e3	1.398e3	1.31	NO	3.236e3	4.3460	4.3460	0.294
8 Total Hexa-Furans	34.03	2.148e3	2.630e3	1.000e2	8.038e1	1.24	NO	1.804e2	0.25602	0.25602	0.326
9 2,3,4,6,7,8-HxCDF	34.41	2.501e4	1.998e4	1.080e3	8.749e2	1.23	NO	1.955e3	2.9332	2.9332	0.339
10 Total Hexa-Furans	34.43	2.166e4	1.495e4	5.217e2	4.041e2	1.29	NO	9.258e2	1.3141	1.3141	0.326
11 1,2,3,7,8,9-HxCDF	35.52	5.676e3	4.239e3	1.404e2	1.140e2	1.23	NO	2.544e2	0.41279	0.41279	0.426
12 Total Hexa-Furans	35.54	1.077e4	8.556e3	5.880e2	4.319e2	1.36	NO	1.020e3	1.4477	1.4477	0.326

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.13	4.052e5	3.980e5	2.602e4	2.539e4	1.03	NO	5.141e4	101.85	101.85	0.490
2	Total Hepta-Furans	37.69	4.464e5	4.268e5	2.924e4	2.764e4	1.06	NO	5.688e4	120.12	120.12	0.553
3	1,2,3,4,7,8,9-HpCDF	39.04	1.084e4	1.104e4	7.932e2	8.102e2	0.98	NO	1.603e3	3.5429	3.5429	0.610

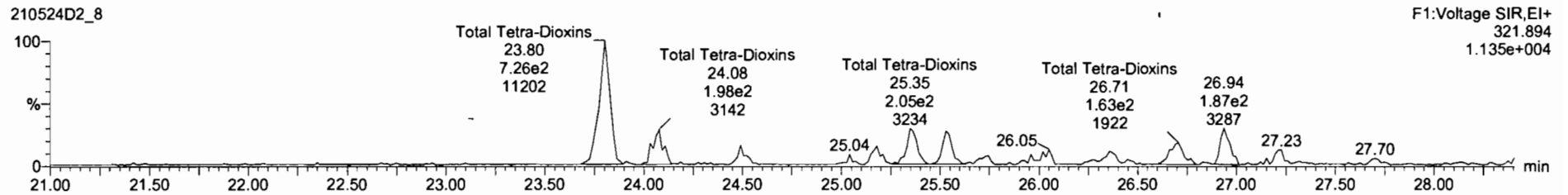
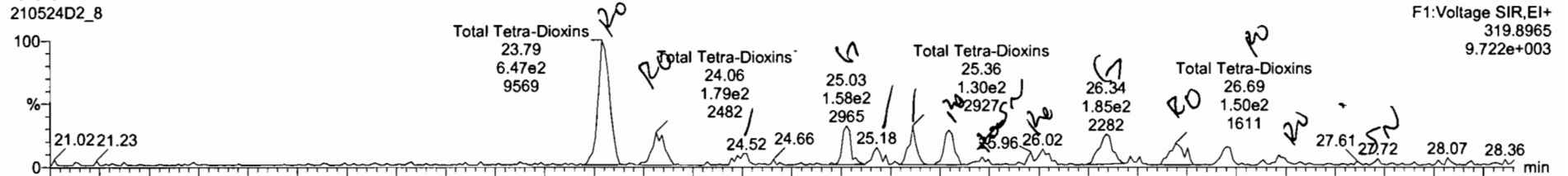
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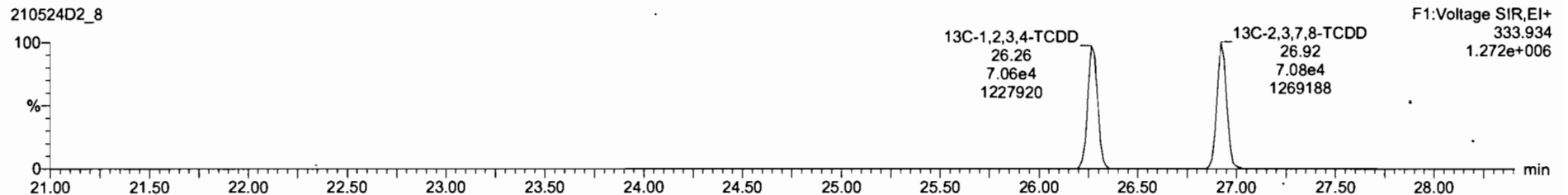
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Name: 210524D2_8, Date: 25-May-2021, Time: 00:36:39, ID: 2105020-03 USMPDI-017SC-A-12-13-210429 15.97, Description: USMPDI-017SC-A-12-13-210429

2,3,7,8-TCDD

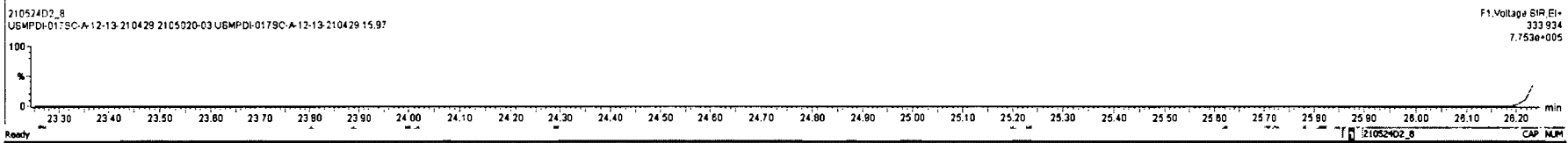
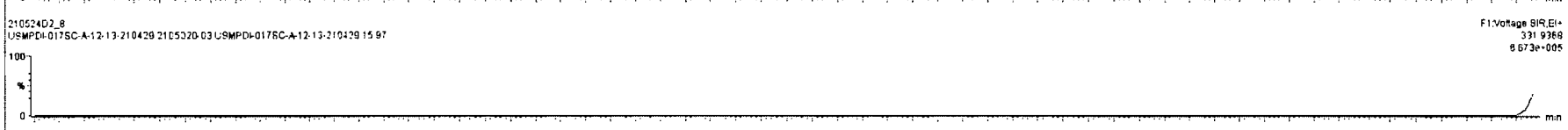
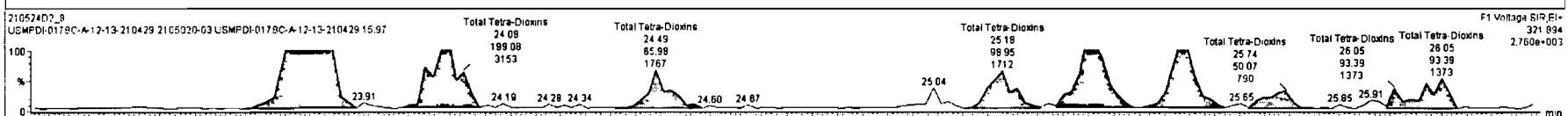
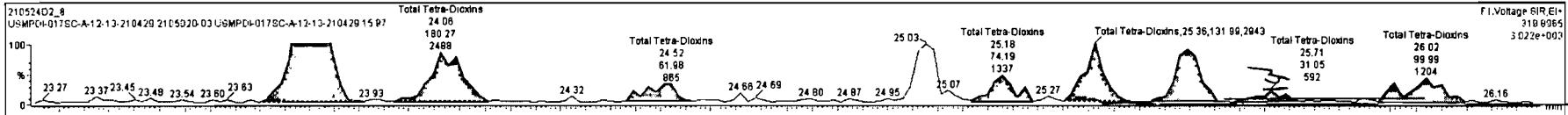


13C-2,3,7,8-TCDD



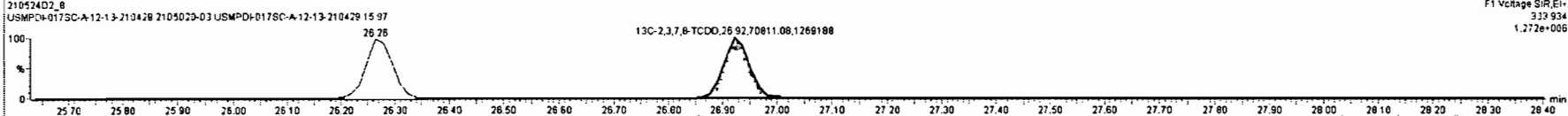
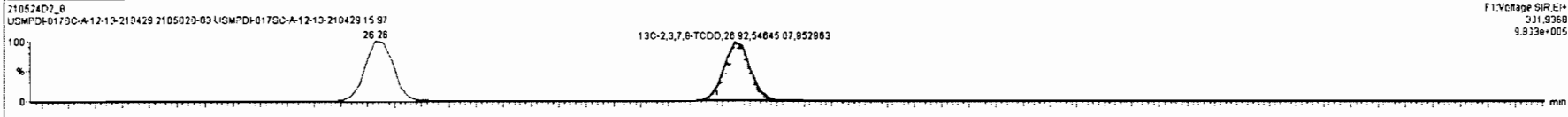
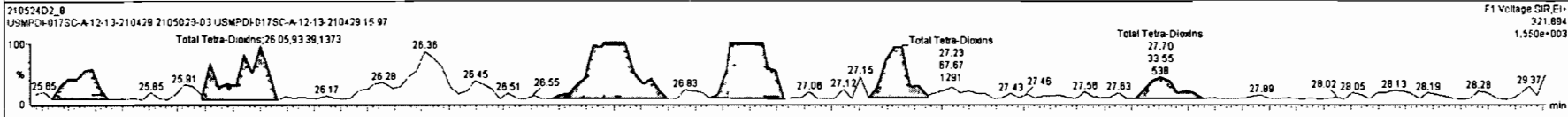
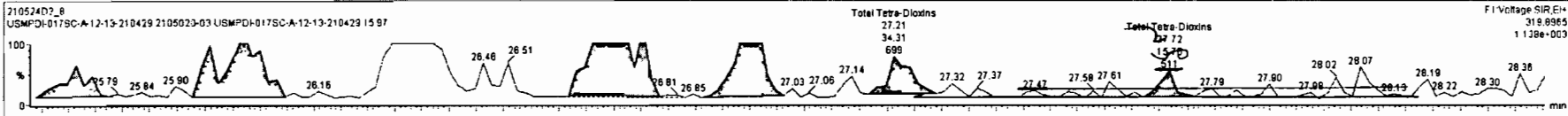
Name	Resp	RA	n/y	RRF	WVvol	RT	RRT	Conc	%Rec	DL	EMPC
24 13C-OCDD	6.18e4	0.93	NO	0.45	10.102	41.92	1.233	186	42.5	0.610	
25 13C-2,3,7,8-TCDF	2.10e5	0.78	NO	1.08	10.102	26.34	1.003	160	80.6	0.311	
26 13C-1,2,3,7,8-PeCDF	1.59e5	1.60	NO	0.80	10.102	29.98	1.141	163	82.3	0.624	
27 13C-2,3,4,7,8-PeCDF	1.57e5	1.63	NO	0.79	10.102	30.91	1.177	164	83.0	0.634	
28 13C-1,2,3,4,7,8-HxCDF	1.33e5	0.50	NO	1.00	10.102	33.53	0.986	165	83.1	0.773	
29 13C-1,2,3,6,7,8-HxCDF	1.37e5	0.51	NO	1.03	10.102	33.67	0.990	165	83.2	0.750	
30 13C-2,3,4,6,7,8-HxCDF	1.18e5	0.51	NO	0.94	10.102	34.36	1.011	155	78.3	0.821	
31 13C-1,2,3,7,8,9-HxCDF	1.11e5	0.49	NO	0.85	10.102	35.50	1.044	161	81.2	0.905	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.79	6.547e2	7.265e2	0.90	YES	1.8366	0.00000
2 Total Tetra-Dioxins	24.06	1.803e2	1.991e2	0.91	YES	0.53069	0.00000
3 Total Tetra-Dioxins	24.52	6.190e1	6.598e1	0.72	NO	0.22284	0.22284
4 Total Tetra-Dioxins	25.18	7.419e1	8.885e1	0.75	NO	0.26075	0.26075
5 Total Tetra-Dioxins	25.36	1.320e2	2.015e2	0.66	NO	0.50224	0.50224
6 Total Tetra-Dioxins	25.55	1.559e2	1.704e2	0.91	YES	0.45422	0.00000
7 Total Tetra-Dioxins	25.71	3.105e1	5.007e1	0.62	YES	0.10749	0.00000



Name	Resp	RA	n/y	RFP	wAval	RT	RRT	Conc.	%Rec	DL	EMPC
24 13C-OCDD	8.15e4	0.93	NO	0.45	10.102	41.92	1.233	188	42.5	0.610	
25 13C-2,3,7,8-TCDF	2.10e5	0.78	NO	1.09	10.102	26.34	1.003	160	80.6	0.311	
26 13C-1,2,3,7,8-PeCDF	1.58e5	1.60	NO	0.80	10.102	29.96	1.141	163	82.3	0.624	
27 13C-2,3,4,7,8-PeCDF	1.57e5	1.83	NO	0.79	10.102	30.91	1.177	164	83.0	0.634	
28 13C-1,2,3,4,7,8-HxCDF	1.33e5	0.50	NO	1.00	10.102	33.53	0.986	165	83.1	0.773	
29 13C-1,2,3,6,7,8-HxCDF	1.37e5	0.51	NO	1.03	10.102	33.67	0.990	165	83.2	0.750	
30 13C-2,3,4,6,7,8-HxCDF	1.18e5	0.51	NO	0.94	10.102	34.39	1.011	155	78.3	0.821	
31 13C-1,2,3,7,8,9-HxCDF	1.11e5	0.49	NO	0.85	10.102	35.50	1.044	161	81.2	0.905	

Name	RT	n/y	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
6 Total Tetra-Dioxins	25.55	YES	1.550e2	1.704e2	0.91	YES	0.45422	0.00000
7 Total Tetra-Dioxins	25.71	YES	3.105e1	5.007e1	0.82	YES	0.10749	0.00000
8 Total Tetra-Dioxins	26.02	YES	9.999e1	9.339e1	1.07	YES	0.24894	0.00000
9 Total Tetra-Dioxins	26.89	YES	1.478e2	1.834e2	0.90	YES	0.43555	0.00000
10 2,3,7,8-TCDD	26.95	YES	6.472e1	1.874e2	0.45	YES	0.28930	0.00000
11 Total Tetra-Dioxins	27.21	YES	3.431e1	6.787e1	0.51	YES	0.11877	0.00000
12 Total Tetra-Dioxins	27.72	YES	1.578e1	3.355e1	0.47	YES	0.054544	0.00000



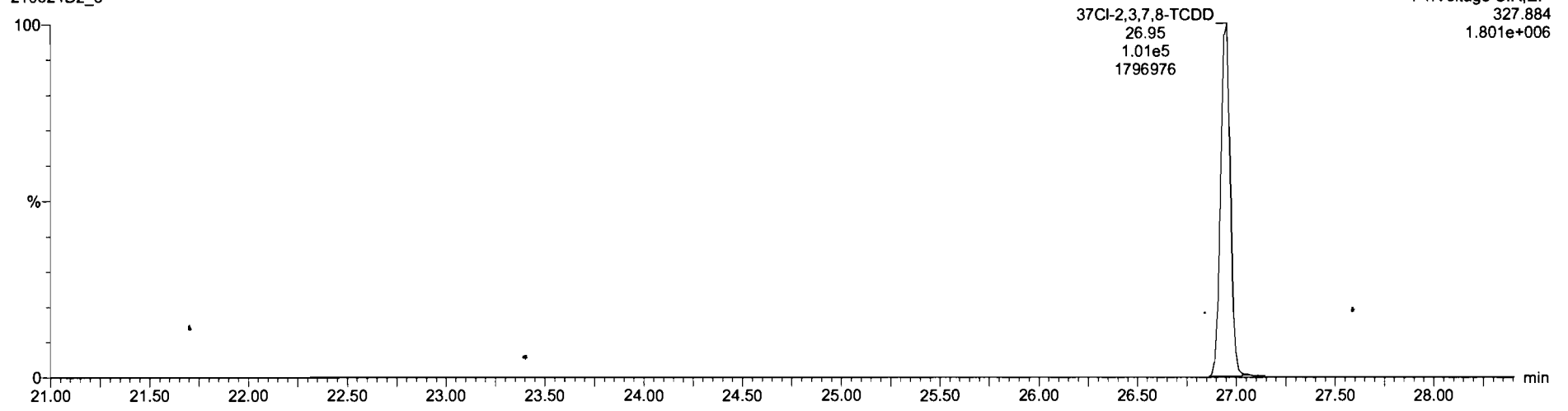
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Printed: Wednesday, May 26, 2021 12:19:22 Pacific Daylight Time

Name: 210524D2_8, Date: 25-May-2021, Time: 00:36:39, ID: 2105020-03 USMPDI-017SC-A-12-13-210429 15.97, Description: USMPDI-017SC-A-12-13-210429

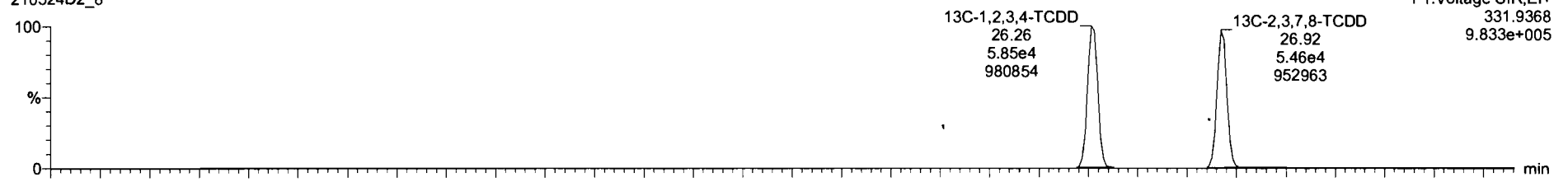
37Cl-2,3,7,8-TCDD

210524D2_8

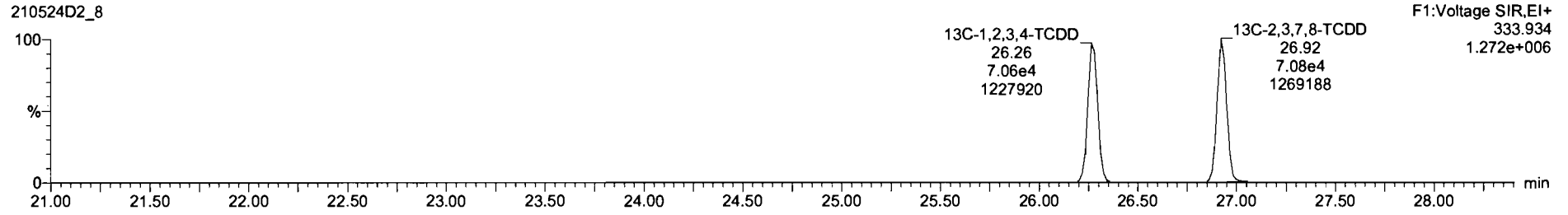


13C-1,2,3,4-TCDD

210524D2_8



210524D2_8



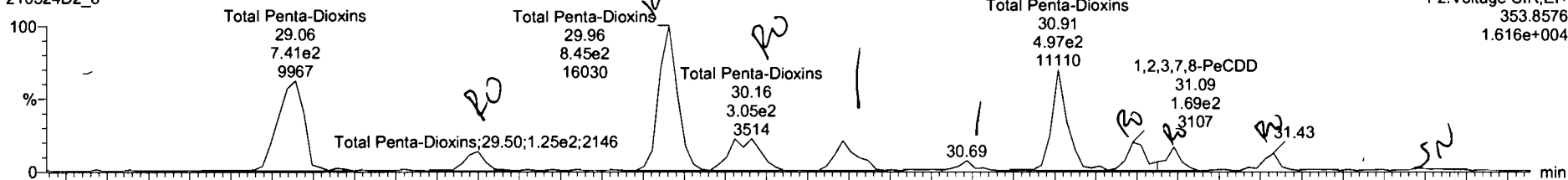
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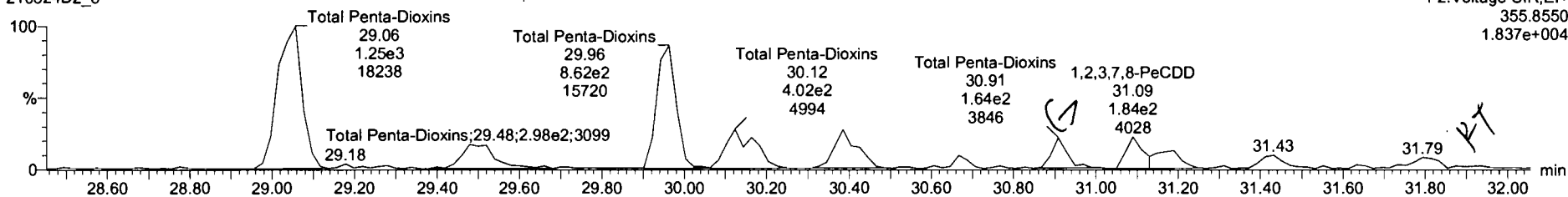
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1,2,3,7,8-PeCDD

210524D2_8



210524D2_8

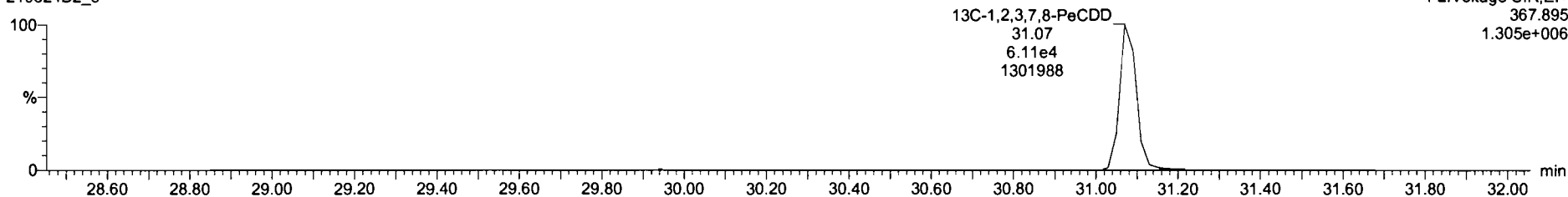


13C-1,2,3,7,8-PeCDD

210524D2_8



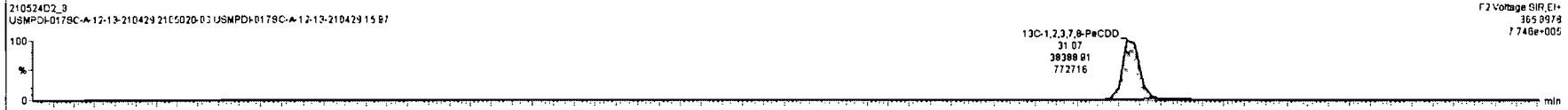
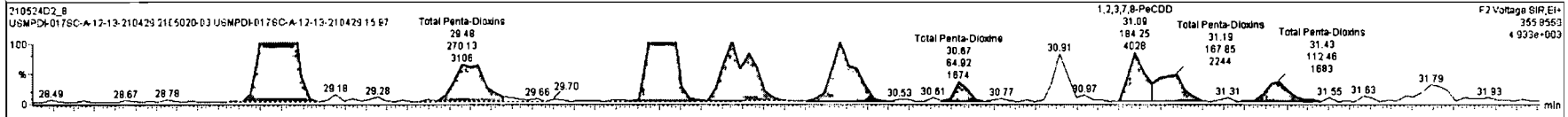
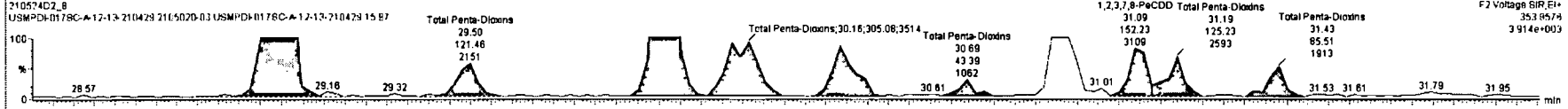
210524D2_8



21052402_8 - 2105020-03 USMPDI-017SC-A-12-13-210429 15 97 - USMPDI-017SC-A-12-13-210429

Name	Resp	RA	n/y	R/R	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
26 13C-1,2,3,7,8-PeCDF	1.59e5	1.60	NO	0.80	10.102	29.88	1.141	163	82.3	0.624	
27 13C-2,3,4,7,8-PeCDF	1.57e5	1.53	NO	0.79	10.102	30.81	1.177	164	83.0	0.634	
28 13C-1,2,3,4,7,8-HxCDF	1.33e5	0.50	NO	1.00	10.102	33.53	0.986	185	83.1	0.773	
29 13C-1,2,3,6,7,8-HxCDF	1.37e5	0.51	NO	1.03	10.102	33.67	0.990	185	83.2	0.750	
30 13C-2,3,4,6,7,8-HxCDF	1.19e5	0.51	NO	0.94	10.102	34.39	1.011	155	78.3	0.821	
31 13C-1,2,3,7,8-HxCDF	1.11e5	0.49	NO	0.85	10.102	35.50	1.044	161	81.2	0.905	
32 13C-1,2,3,4,6,7,8-HpCDF	8.62e4	0.42	NO	0.73	10.102	37.12	1.062	146	73.9	0.736	
33 13C-1,2,3,4,7,8,9-HpCDF	7.55e4	0.42	NO	0.61	10.102	39.03	1.146	153	77.4	0.890	

Name	RT	wt Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	29.06	7.261e2	1.253e3	0.58	NO	4.4680	4.4660
2 Total Penta-Dioxins	29.50	1.215e2	2.701e2	0.45	YES	0.70829	0.00000
3 Total Penta-Dioxins	29.96	8.450e2	8.557e2	0.99	YES	3.1482	0.00000
4 Total Penta-Dioxins	30.16	3.051e2	3.977e2	0.77	YES	1.4832	0.00000
5 Total Penta-Dioxins	30.39	2.039e2	3.232e2	0.63	NO	1.1896	1.11896
6 Total Penta-Dioxins	30.69	4.339e1	6.432e1	0.67	NO	0.24446	0.24446
7 1,2,3,7,8-PeCDD	31.09	1.522e2	1.843e2	0.83	YES	0.67798	0.00000
8 Total Penta-Dioxins	31.18	1.947e2	1.878e2	0.74	YES	0.61741	0.00000

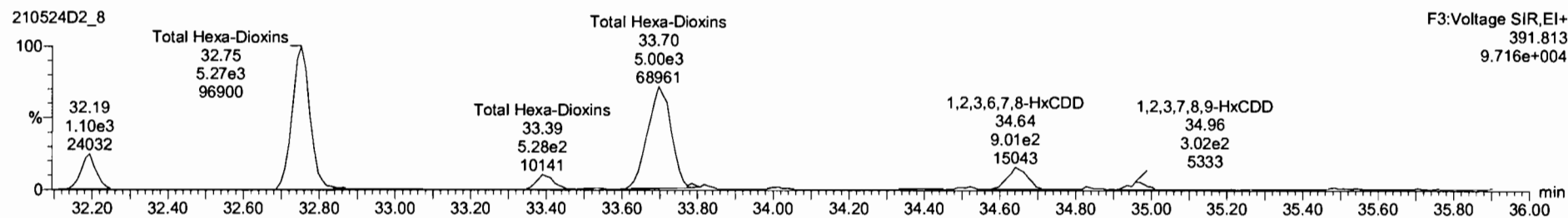
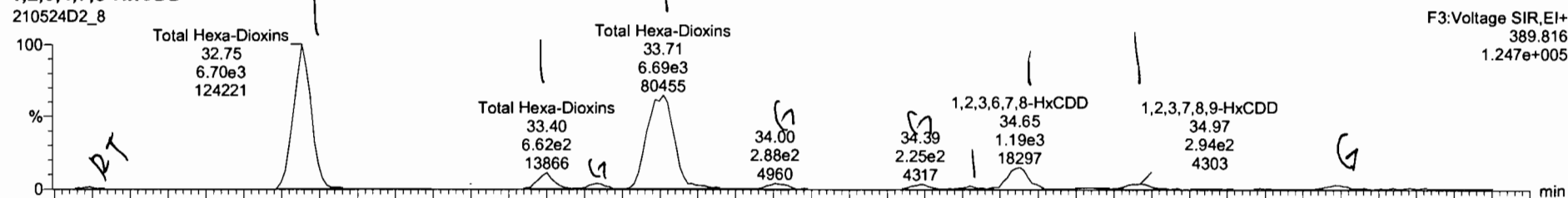


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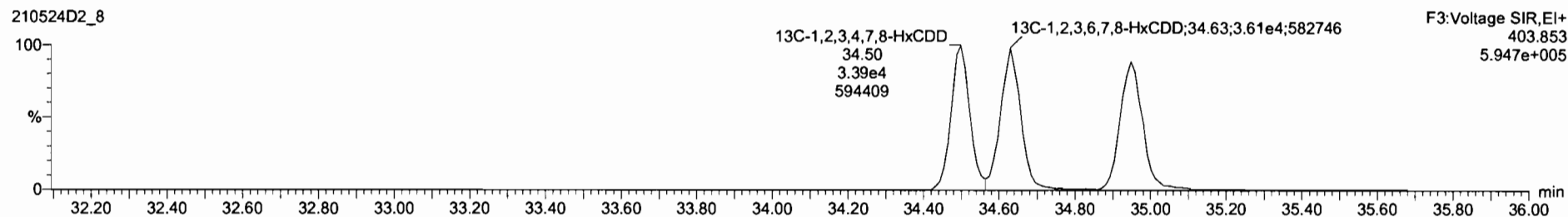
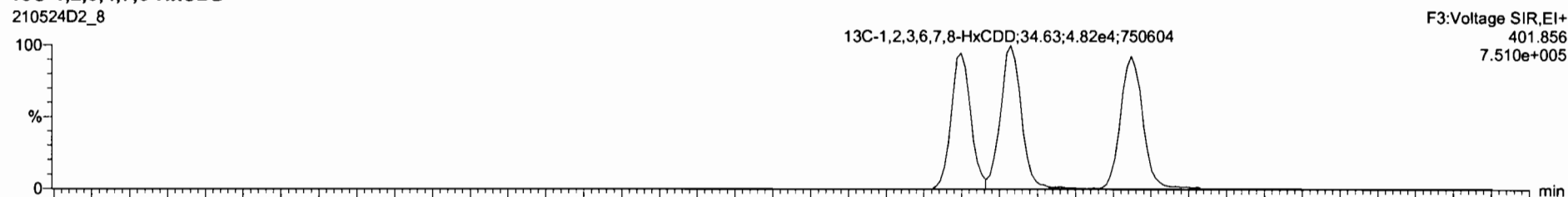
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Name: 210524D2_8, Date: 25-May-2021, Time: 00:36:39, ID: 2105020-03 USMPDI-017SC-A-12-13-210429 15.97, Description: USMPDI-017SC-A-12-13-210429

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

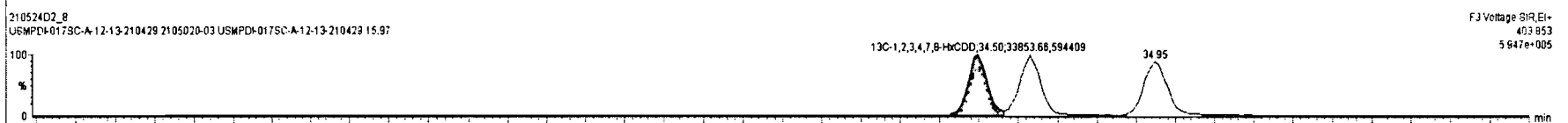
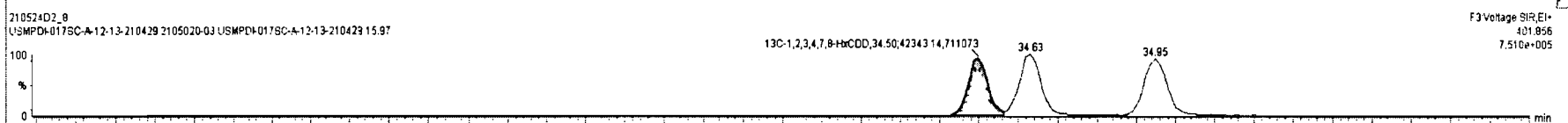
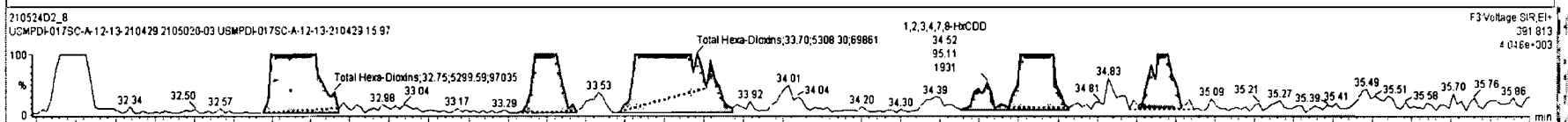
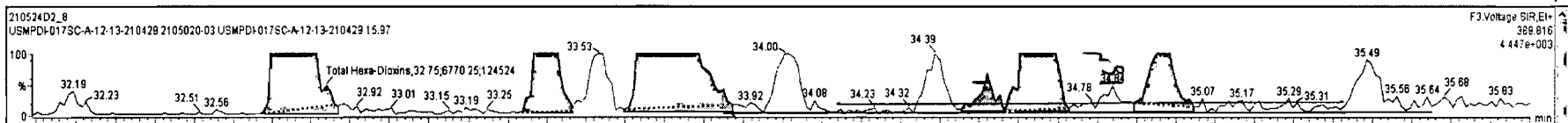


13C-1,2,3,4,7,8-HxCDD



Name	Resp	RA	n/y	RRF	w/wof	RT	RRT	Conc.	%Rec	DL	EMPC
25 13C-2,3,7,8-TCDF	2.10e5	0.78	NO	1.08	10.102	26.34	1.003	160	80.6	0.311	
28 13C-1,2,3,7,8-PeCDF	1.59e5	1.60	NO	0.80	10.102	29.96	1.141	163	82.3	0.624	
27 13C-2,3,4,7,8-PeCDF	1.57e5	1.63	NO	0.79	10.102	30.91	1.177	164	83.0	0.634	
26 13C-1,2,3,4,7,8-HxCDF	1.33e5	0.50	NO	1.00	10.102	33.53	0.986	165	83.1	0.773	
29 13C-1,2,3,6,7,8-HxCDF	1.37e5	0.51	NO	1.03	10.102	33.67	0.990	165	83.2	0.750	
30 13C-2,3,4,6,7,8-HxCDF	1.18e5	0.51	NO	0.94	10.102	34.35	1.011	165	78.3	0.821	
31 13C-1,2,3,7,8,9-HxCDF	1.11e5	0.48	NO	0.85	10.102	35.50	1.044	161	81.2	0.805	
32 13C-1,2,3,4,6,7,8-HpCDF	8.62e4	0.42	NO	0.73	10.102	37.12	1.082	146	73.9	0.736	

Name	RT1	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.75	6.770e3	5.300e3	1.28	NO	28.887	28.887
2 Total Hexa-Dioxins	33.40	6.712e2	5.371e2	1.25	NO	2.8918	2.8918
3 Total Hexa-Dioxins	33.71	6.779e3	5.308e3	1.28	NO	28.927	28.927
4 1,2,3,4,7,8-HxCDD	34.52	1.162e2	9.511e1	1.22	NO	0.48028	0.48028
5 1,2,3,6,7,8-HxCDD	34.65	1.213e3	9.341e2	1.30	NO	4.9905	4.9905
6 1,2,3,7,8-HxCDD	34.97	3.615e2	2.824e2	1.28	NO	1.4707	1.4707



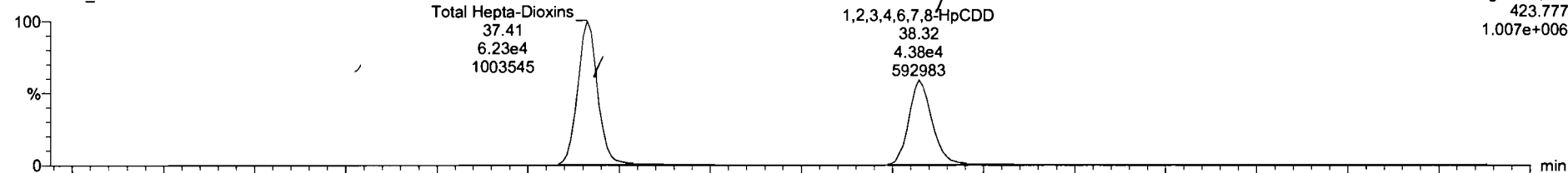
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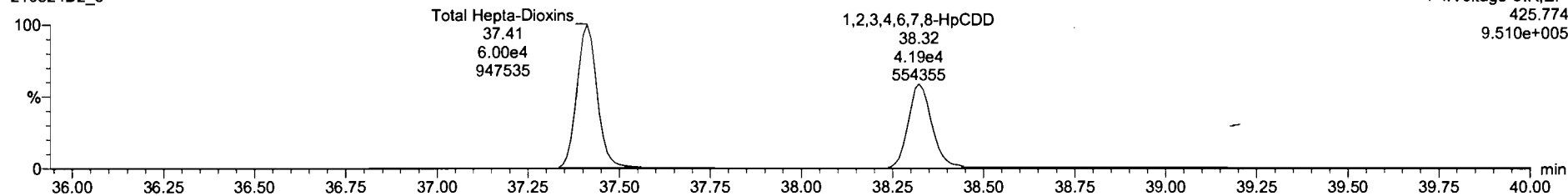
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1,2,3,4,6,7,8-HpCDD

210524D2_8

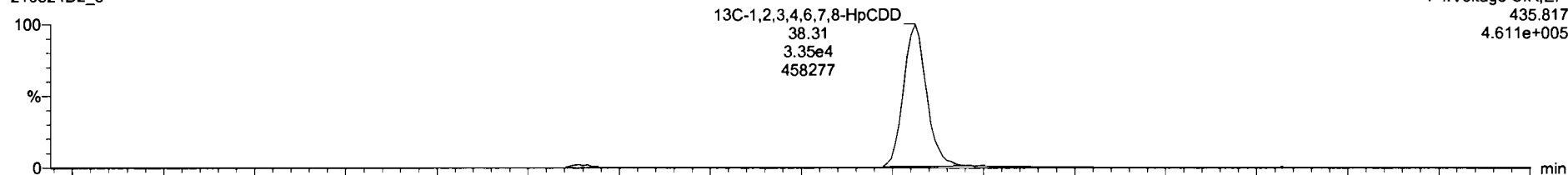


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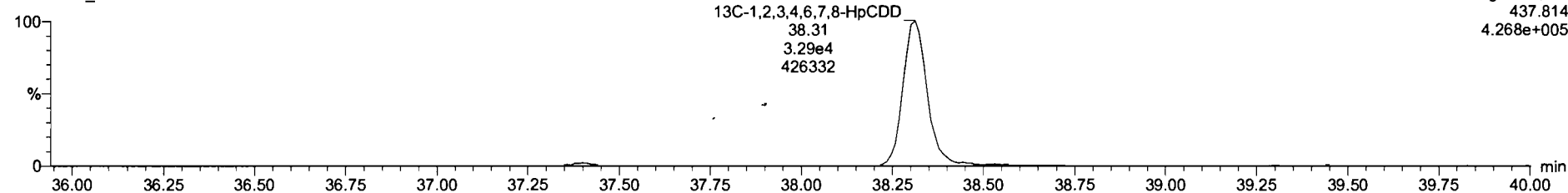


13C-1,2,3,4,6,7,8-HpCDD

210524D2_8



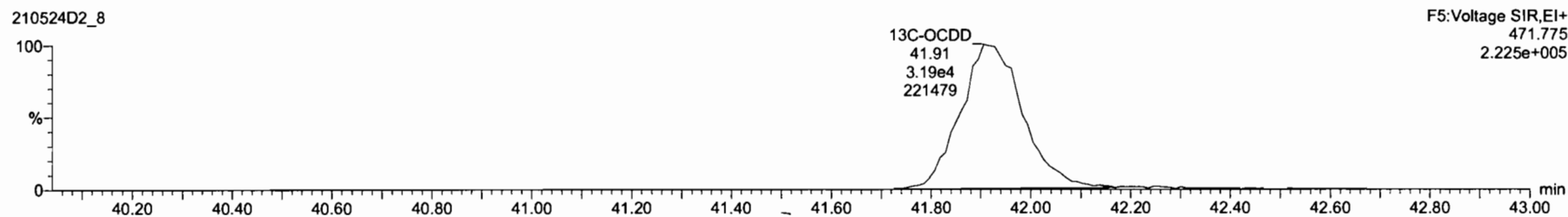
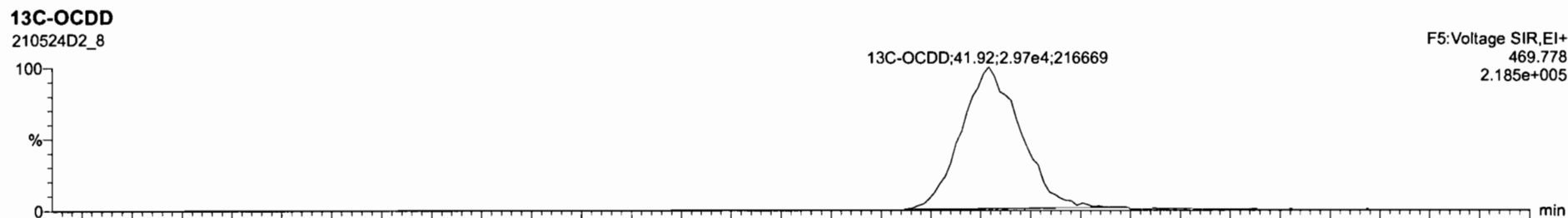
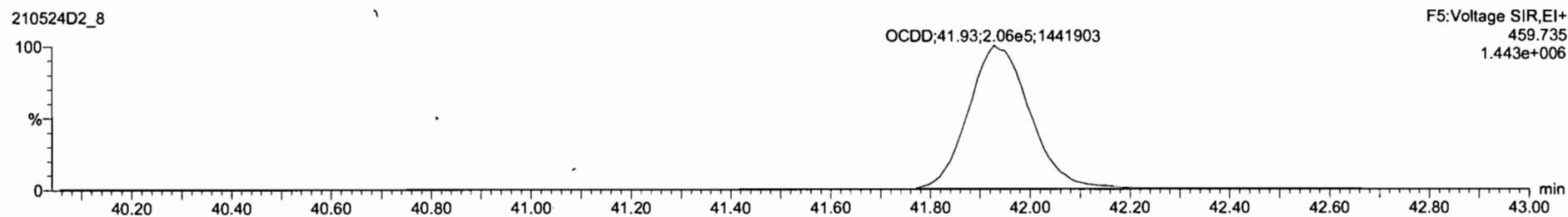
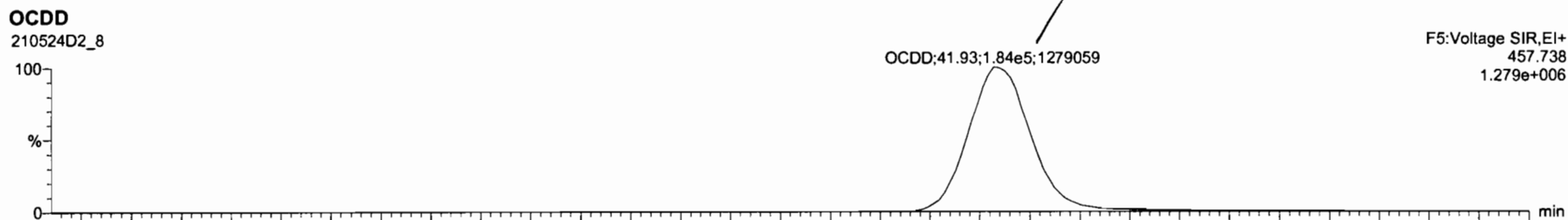
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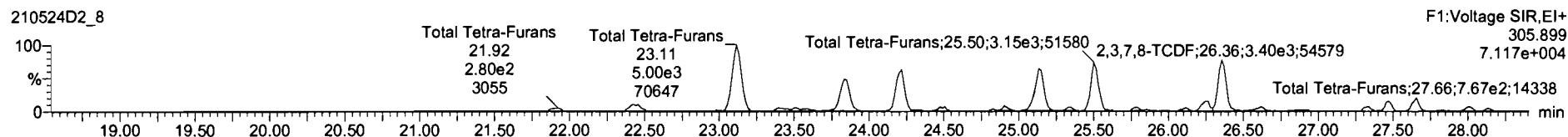
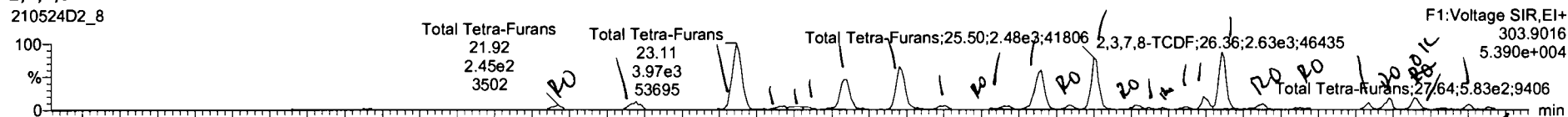


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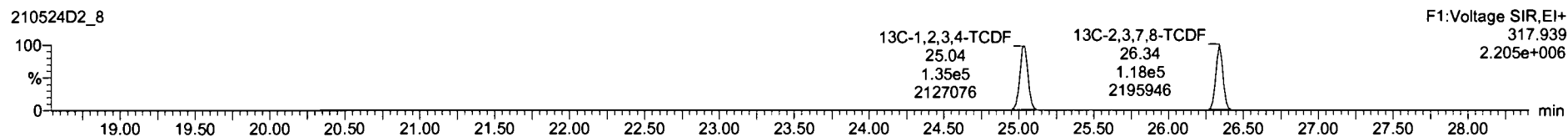
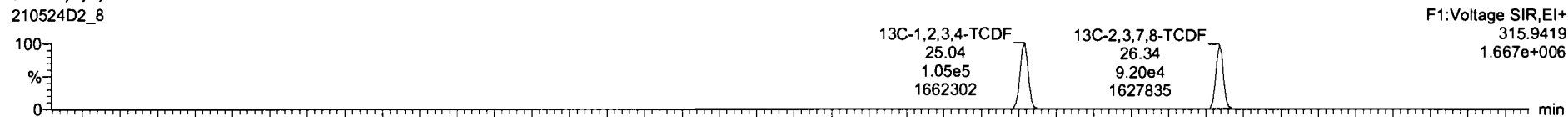
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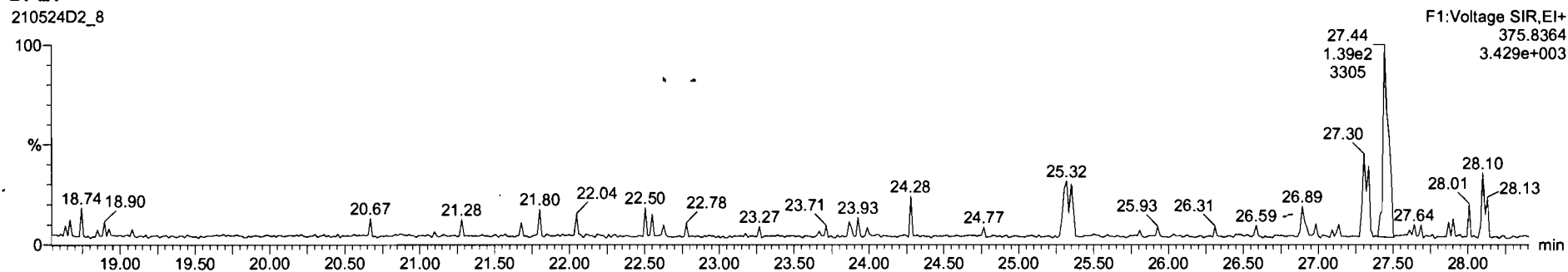
2,3,7,8-TCDF



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



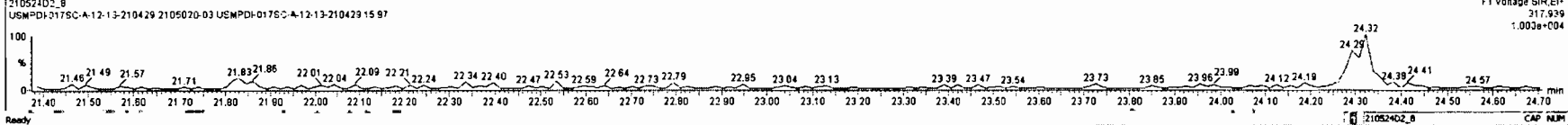
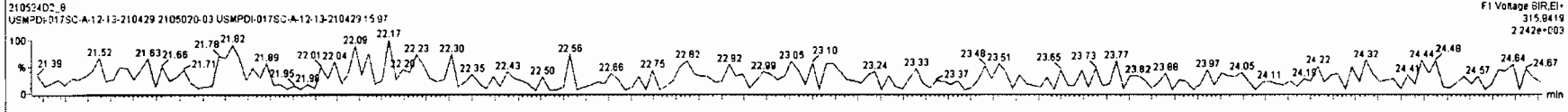
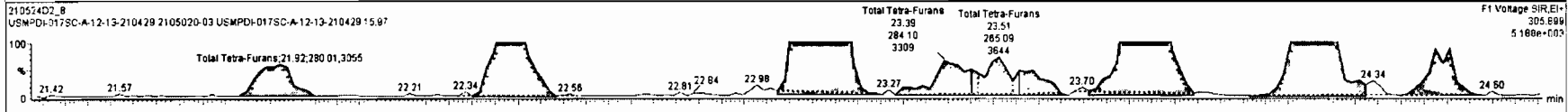
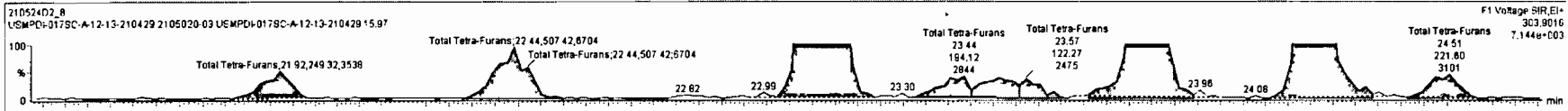
DPE1



21052402_8 - 21052003 USMPDI-0175C-A-12-13-210429 15:97 - USMPDI-0175C-A-12-13-210429

Name	Resp	RA	nly	RRP	wtAval	RT	RRT	Conc	%Rec	DL	EMPC
30 13C-1,2,3,4-TCDF	1.29e5	0.83	NO	1.00	10.102	26.26	1.000	198	100	0.418	
37 13C-1,2,3,4-TCDF	2.39e5	0.78	NO	1.00	10.102	25.04	1.000	198	100	0.339	
38 13C-1,2,3,4,8-HxCDF	1.60e5	0.50	NO	1.00	10.102	34.00	1.000	198	100	0.771	
39 Total Tetra-Dioxins				1.05	10.102			0.986		0.107	4.47
40 Total Penta-Dioxins				0.88	10.102			5.90		0.161	12.9
41 Total Hexa-Dioxins				1.01	10.102			67.6		0.593	67.6
42 Total Hepta-Dioxins				1.07	10.102			581		1.78	581
43 Total Tetra-Furans				0.86	10.102			66.1		0.148	51.8

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	21.92	2.493e2	2.800e2	0.88	YES	0.54000	0.00000
2 Total Tetra-Furans	22.44	5.074e2	6.476e2	0.78	NO	1.2520	1.2525
3 Total Tetra-Furans	23.11	3.949e3	5.056e3	0.78	NO	9.8070	8.8072
4 Total Tetra-Furans	23.44	1.941e2	2.841e2	0.68	NO	0.52100	0.52084
5 Total Tetra-Furans	23.51	2.204e2	2.851e2	0.93	NO	0.52900	0.52878
6 Total Tetra-Furans	23.57	1.222e2	1.596e2	0.78	NO	0.30400	0.30378
7 Total Tetra-Furans	23.85	1.854e3	2.593e3	0.78	NO	4.9410	4.9405
8 Total Tetra-Furans	24.20	2.480e3	3.034e3	0.82	NO	6.0040	5.0045
9 Total Tetra-Furans	24.51	2.216e2	2.822e2	0.79	NO	0.54900	0.54874

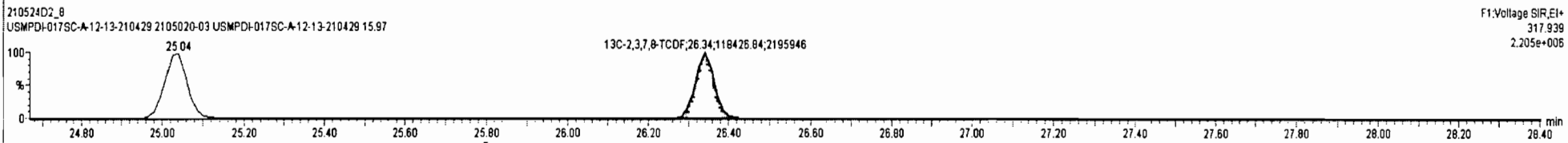
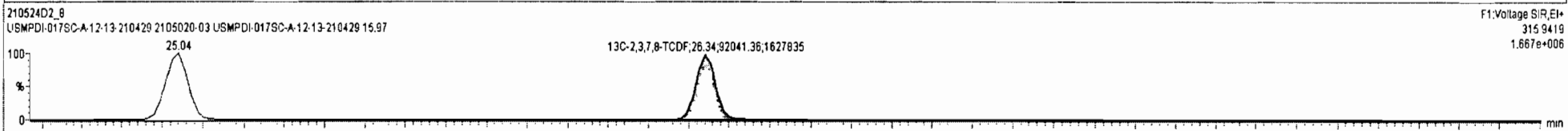
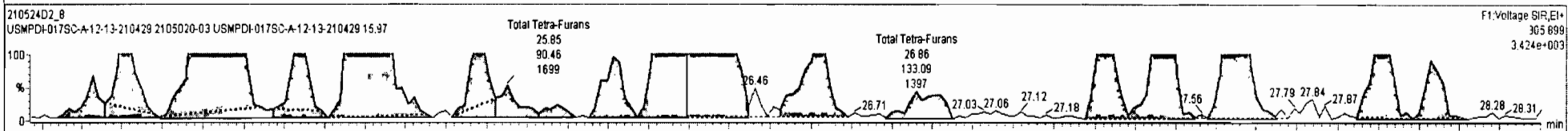
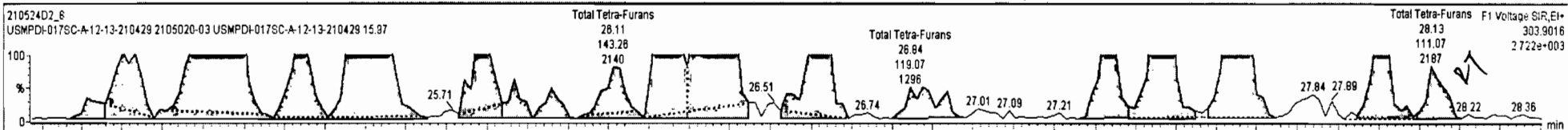




210524D2_8 - 2105020-03 USMPDI-0175C-A-12-13-210429 15.97 - USMPDI-0175C-A-12-13-210429

Name	Resp	RA	n/y	RFI	wAol	RT	RRT	Conc.	%Rec	DL	EMPC
36 13C-1,2,3,4-TCDD	1.29e5	0.83	NO	1.00	10.102	26.26	1.000	198	100	0.418	
37 13C-1,2,3,4-TCDF	2.39e5	0.78	NO	1.00	10.102	25.04	1.000	198	100	0.339	
38 13C-1,2,3,4,6,9-HxCDF	1.60e5	0.50	NO	1.00	10.102	34.00	1.000	198	100	0.771	
39 Total Tetra-Dioxins				1.05	10.102			0.986		0.107	4.47
40 Total Penta-Dioxins				0.88	10.102			5.90		0.161	12.9
41 Total Hexa-Dioxins				1.01	10.102			67.6		0.593	67.6
42 Total Hepta-Dioxins				1.07	10.102			581		1.78	581
43 Total Tetra-Furans				0.86	10.102			48.1		0.148	51.6

Name	RT 1	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
10 Total Tetra-Furans	24.81	4.487e1	9.768e1	0.46	YES	0.11200	0.00000
11 Total Tetra-Furans	24.90	2.152e2	2.844e2	0.76	NO	0.54400	0.54410
12 Total Tetra-Furans	25.15	2.416e3	3.222e3	0.75	NO	6.1400	6.1400
13 Total Tetra-Furans	25.33	2.193e2	2.386e2	0.92	YES	0.46000	0.00000
14 Total Tetra-Furans	25.50	2.501e3	3.172e3	0.79	NO	6.1780	6.1784
15 Total Tetra-Furans	25.77	2.173e2	2.199e2	0.99	YES	0.42400	0.00000
16 Total Tetra-Furans	25.87	6.218e1	9.046e1	0.69	NO	0.16600	0.16624
17 Total Tetra-Furans	25.96	5.794e1	3.686e1	1.57	YES	0.071000	0.00000
18 Total Tetra-Furans	26.11	1.433e2	1.823e2	0.79	NO	0.35500	0.35459



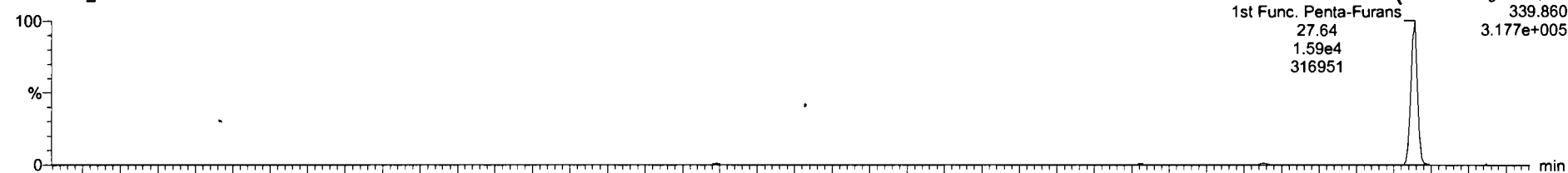
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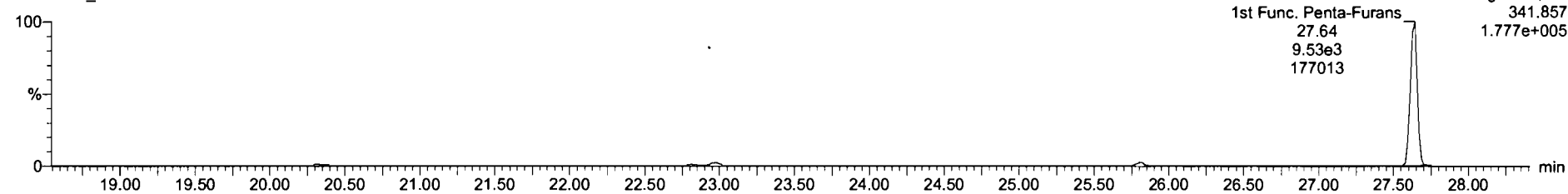
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1st Func. Penta-Furans

210524D2_8

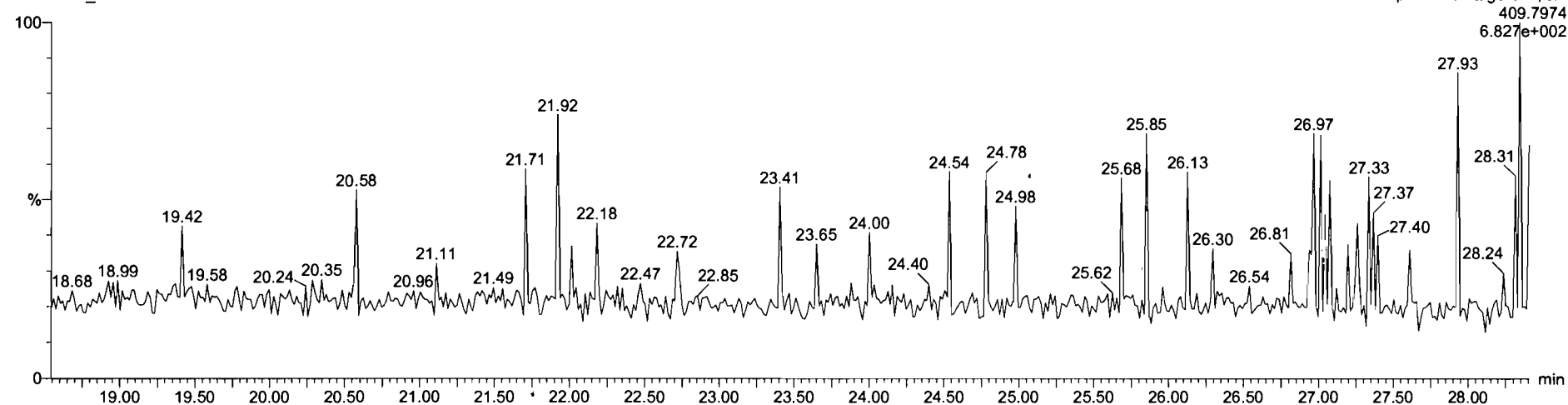


210524D2_8



DPE6

210524D2_8

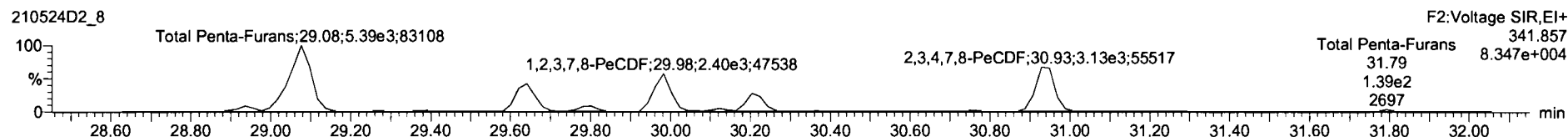
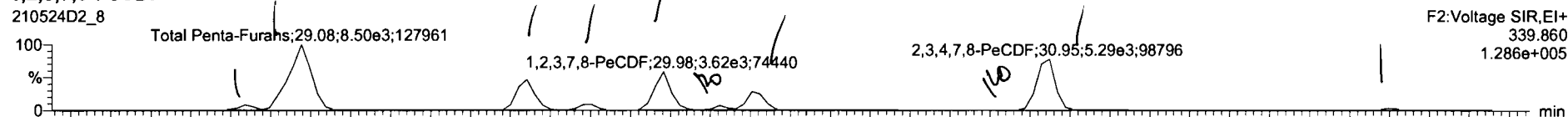


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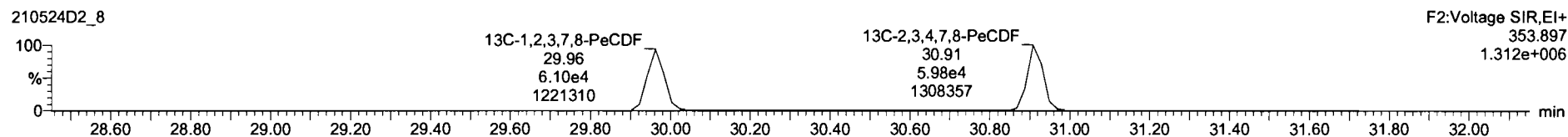
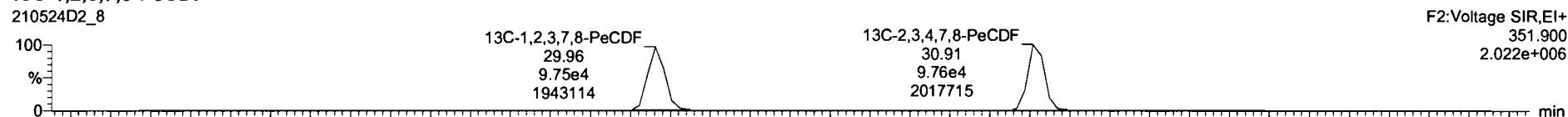
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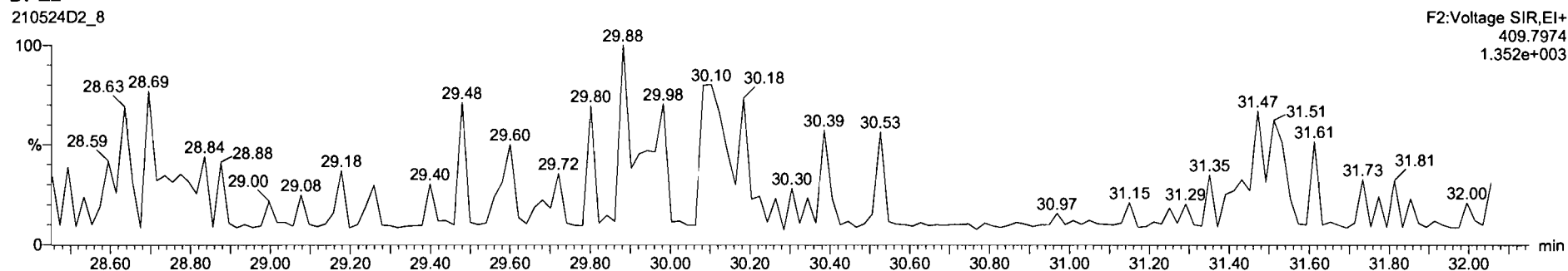
1,2,3,7,8-PeCDF



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



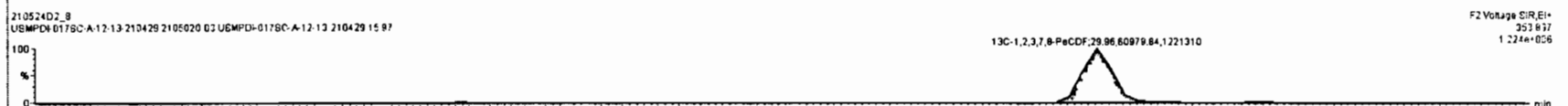
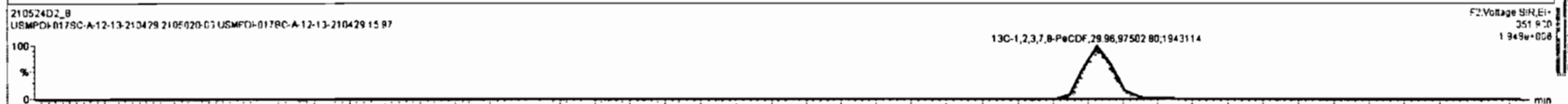
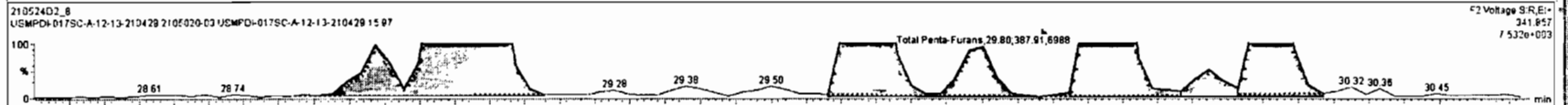
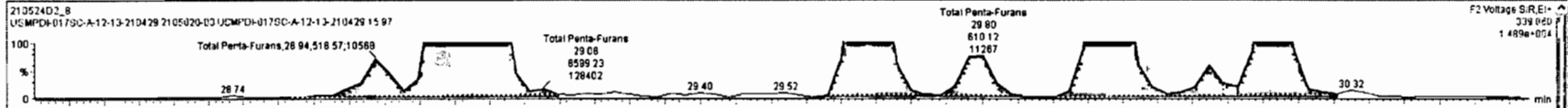
DPE2



210524D2_8 - 2105020-03 USMFD-017SC-A-12-13-210429 15 97 - USMFD-017SC-A-12-13-210429

Name	Resp	RA	n/y	RRF	wt/Avr	RT	NRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.95	10 102			51.0	0.263	52.0	
46 Total Hexa-Furans				1.12	10 102			109	0.325	109	
47 Total Hepta-Furans				1.16	10 102			221	0.553	221	
48 PFX1											
49 PFX2											
50 PFX3											
51 PFX4											
52 PFX5											

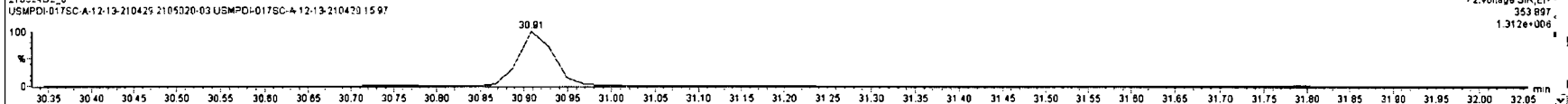
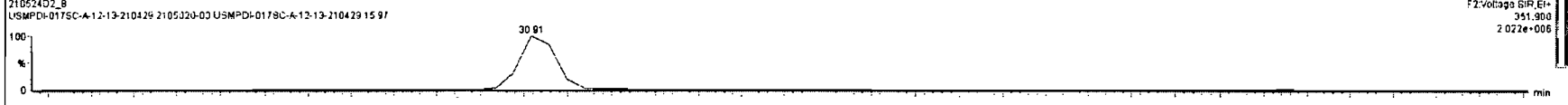
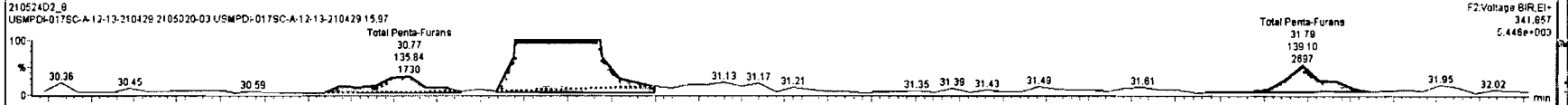
Name	RT	WT Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.94	5.166e2	3.659e2	1.42	NO	1.1688	1.1099
2 Total Penta-Furans	29.08	8.590e3	5.410e3	1.59	NO	18.517	18.517
3 Total Penta-Furans	29.64	3.173e3	2.024e3	1.57	NO	6.8667	6.8667
4 Total Penta-Furans	29.80	6.101e2	3.879e2	1.57	NO	1.3191	1.3191
5 1,2,3,7,8-PeCDF	29.98	3.650e3	2.441e3	1.50	NO	8.0226	8.0226
6 Total Penta-Furans	30.12	3.725e2	1.901e2	1.96	YES	0.84098	0.00000
7 Total Penta-Furans	30.20	1.980e3	1.223e3	1.62	NO	4.2333	4.2333
8 Total Penta-Furans	30.77	1.507e2	1.358e2	1.11	YES	0.32778	0.00000
9 2,3,4,7,8-PeCDF	30.95	5.423e3	3.205e3	1.68	NO	10.458	10.458



210524D2_8 - 2105020-03 USMPDI-017SC-A-12-13-210429 15 97 - USMPDI-017SC-A-12-13-210429

Name	Resp	RA	nV	RR	wAval	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans			0.95	10.102				51.0	0.283	52.0	
46 Total Hexa-Furans			1.12	10.102				109	0.326	109	
47 Total Hepta-Furans			1.16	10.102				221	0.553	221	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

Name	RT	mL Resp	n2 Resp	RA	nV	EMPC	Conc.
2 Total Penta-Furans	29.08	8.59e3	5.41e3	1.59	NO	18.517	18.517
3 Total Penta-Furans	29.84	3.17e3	2.02e3	1.57	NO	8.8687	8.8687
4 Total Penta-Furans	29.80	8.101e2	3.879e2	1.57	NO	1.3191	1.3191
5 2,3,7,8-PeCDF	29.98	3.850e3	2.441e3	1.50	NO	8.0226	8.0226
6 Total Penta-Furans	30.12	3.725e2	1.901e2	1.95	YES	0.64059	0.00000
7 Total Penta-Furans	30.20	1.980e3	1.223e3	1.62	NO	4.2333	4.2333
8 Total Penta-Furans	30.77	1.507e2	1.359e2	1.11	YES	0.32779	0.00000
9 2,3,4,7,8-PeCDF	30.95	5.423e3	3.205e3	1.89	NO	10.459	10.459
10 Total Penta-Furans	31.79	2.012e2	1.391e2	1.45	NO	0.44985	0.44985

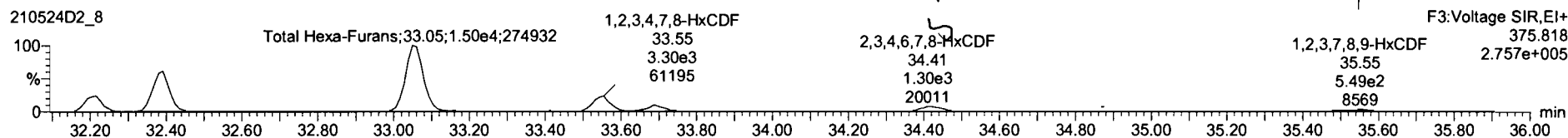
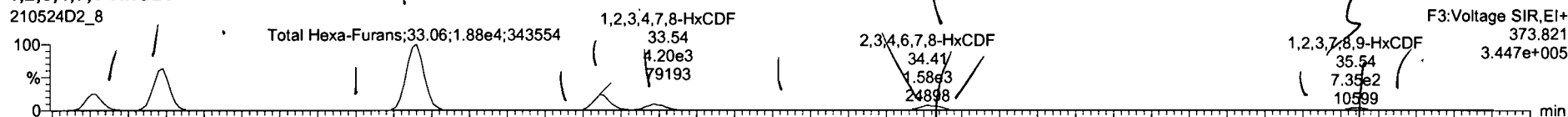


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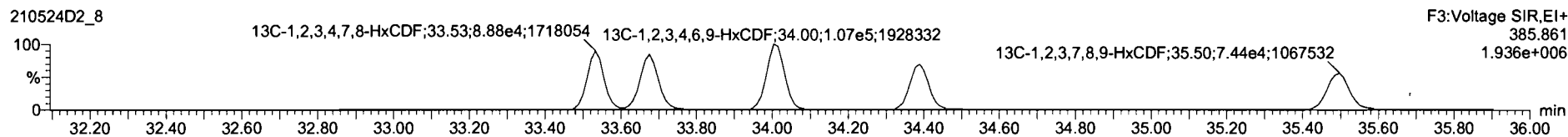
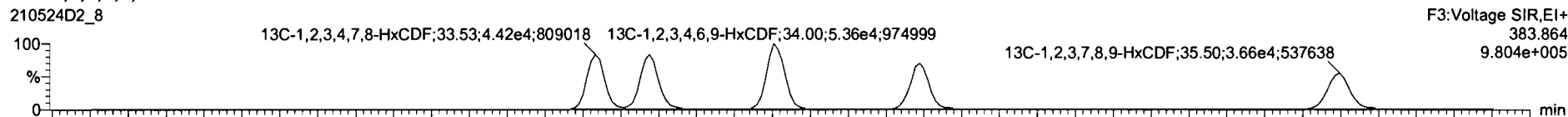
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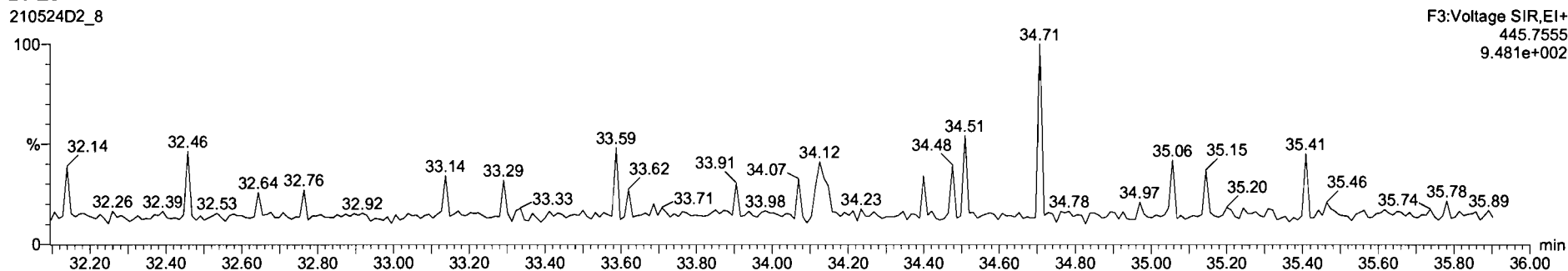
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13C-1,2,3,4,7,8-HxCDF



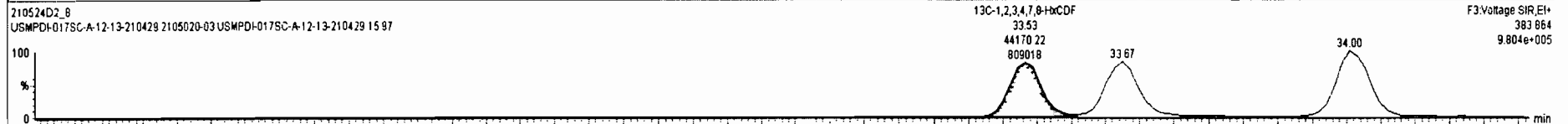
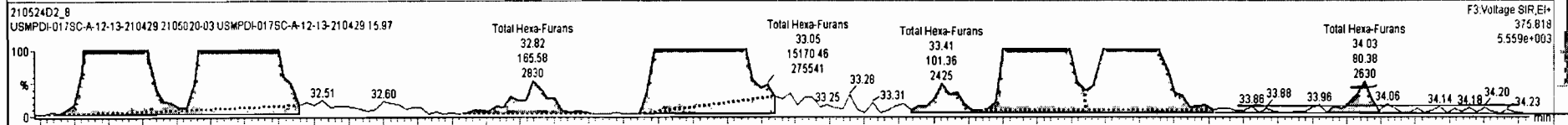
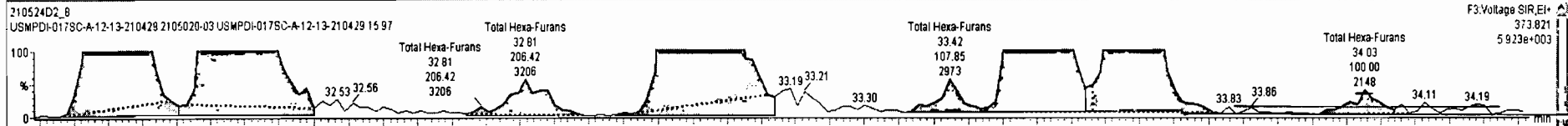
DPE3



210524D2_8 - 2105020-03 USMPDI-017SC-A-12-13-210429 15:97 - USMPDI-017SC-A-12-13-210429

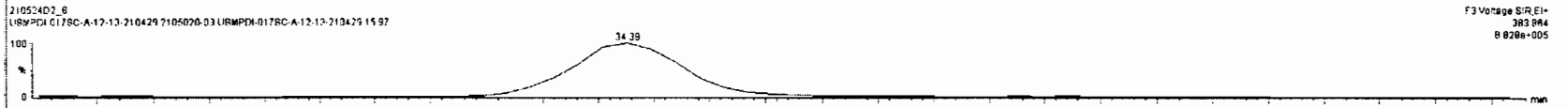
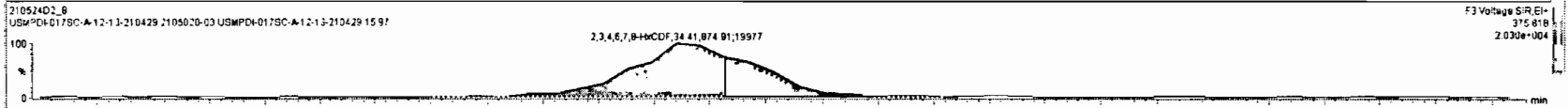
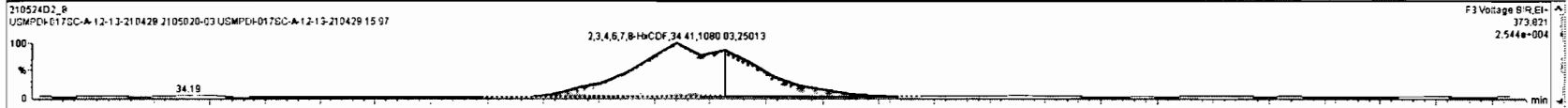
Name	Resp	RA	n/y	RF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.95	10.102			51.0		0.263	52.0
46 Total Hexa-Furans				1.12	10.102			111		0.326	111
47 Total Hexa-Furans				1.16	10.102			221		0.553	221
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	4.547e3	3.562e3	1.28	NO	11.509	11.509
2 Total Hexa-Furans	32.39	1.121e4	6.699e3	1.29	NO	28.256	28.256
3 Total Hexa-Furans	32.81	2.064e2	1.659e2	1.25	NO	0.52902	0.52902
4 Total Hexa-Furans	33.06	1.902e4	1.517e4	1.25	NO	48.524	48.524
5 Total Hexa-Furans	33.42	1.079e2	1.014e2	1.06	NO	0.29695	0.29695
6 1,2,3,4,7,8-HxCDF	33.54	4.165e3	3.337e3	1.25	NO	10.706	10.706
7 1,2,3,6,7,8-HxCDF	33.69	1.838e3	1.398e3	1.31	NO	4.3460	4.3460
8 Total Hexa-Furans	34.03	1.000e2	8.039e1	1.24	NO	0.25602	0.25602
9 2,3,4,6,7,8-HxCDF	34.41	1.080e3	8.749e2	1.23	NO	2.9332	2.9332



Name	Resp	RA	nly	RRF	wtAve	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.95	10.102			51.0	0.263	52.0	
46 Total Hexa-Furans				1.12	10.102			111	0.326	111	
47 Total Hepta-Furans				1.16	10.102			221	0.553	221	
48 PFX1											
49 PFX2											
50 PFX3											
51 PFX4											
52 PFX5											

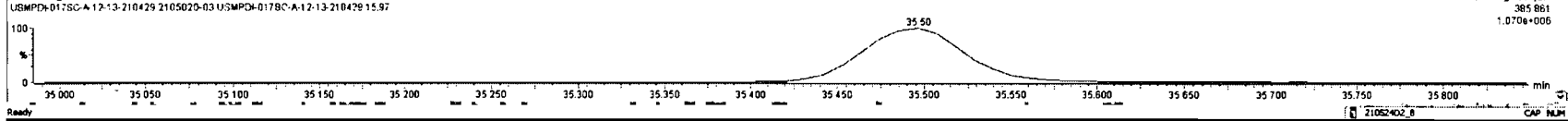
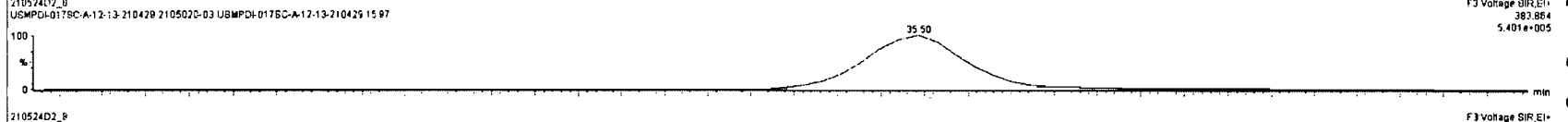
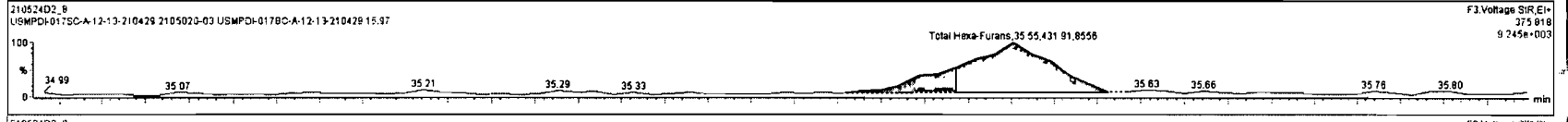
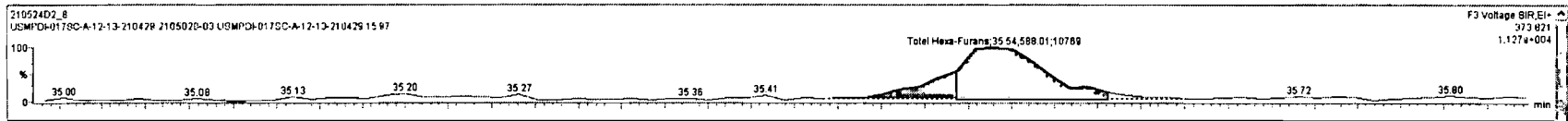
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.20	4.547e3	3.562e3	1.26	NO	11.509	11.509
2 Total Hexa-Furans	32.39	1.121e4	8.899e3	1.29	NO	28.256	26.256
3 Total Hexa-Furans	32.81	2.054e2	1.856e2	1.25	NO	0.52802	0.52802
4 Total Hexa-Furans	33.05	1.902e4	1.517e4	1.25	NO	48.524	48.524
5 Total Hexa-Furans	33.42	1.079e2	1.014e2	1.06	NO	0.29985	0.29985
6 2,3,4,6,7,8-HxCDF	33.54	4.165e3	3.337e3	1.25	NO	10.708	10.708
7 1,2,3,4,7,8-HxCDF	33.80	1.839e3	1.396e3	1.31	NO	4.3480	4.3480
8 Total Hexa-Furans	34.03	1.009e2	8.039e1	1.24	NO	0.25802	0.25802
9 2,3,4,6,7,8-HxCDF	34.41	1.090e3	8.749e2	1.23	NO	2.9332	2.9332



210524D2_8 - 2105020-03 USMPCD-017SC-A-12-13-210429 15:97 - USMPCD-017SC-A-12-12-210429

#	Name	Resp	RA	nHy	RFV	wAveI	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.95	10 102			51.0	0.283	52.0	
46	Total Hexa-Furans				1.12	10 102			111	0.326	111	
47	Total Hepta-Furans				1.16	10 102			221	0.553	221	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											

#	Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1	Total Hexa-Furans	32.20	4.547e3	3.582e3	1.26	NO	11.500	11.500
2	Total Hexa-Furans	32.30	1.121e4	8.898e3	1.20	NO	28.258	28.258
3	Total Hexa-Furans	32.81	2.064e2	1.656e2	1.25	NO	0.52802	0.52802
4	Total Hexa-Furans	33.08	1.902e4	1.517e4	1.25	NO	48.524	48.524
5	Total Hexa-Furans	33.42	1.079e2	1.014e2	1.06	NO	0.29895	0.29895
6	1,2,3,4,7,8-HxCDF	33.54	4.165e3	3.337e3	1.25	NO	10.706	10.706
7	1,2,3,6,7,8-HxCDF	33.69	1.839e3	1.398e3	1.31	NO	4.3480	4.3480
8	Total Hexa-Furans	34.03	1.000e2	8.039e1	1.24	NO	0.25802	0.25802
9	2,3,4,6,7,8-HxCDF	34.41	1.080e3	8.749e2	1.23	NO	2.9332	2.9332

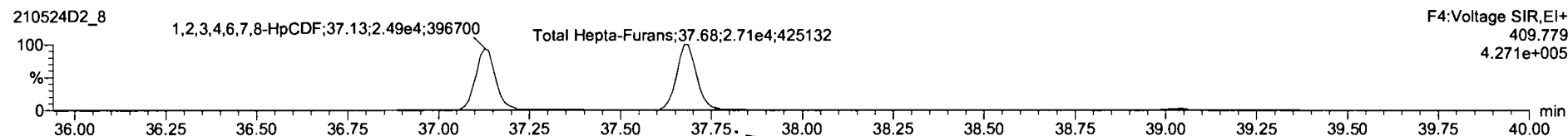
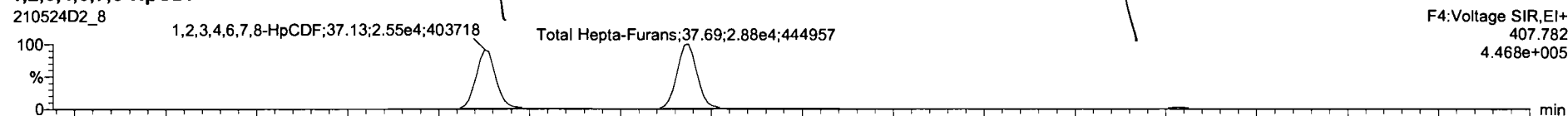


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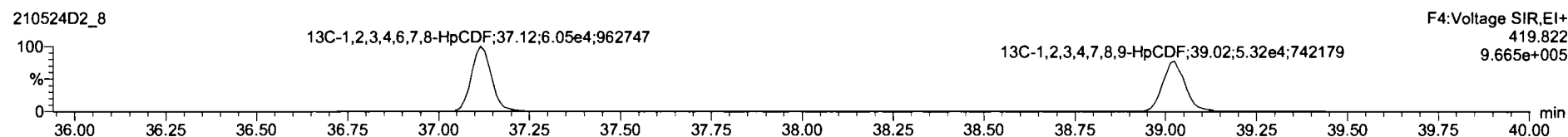
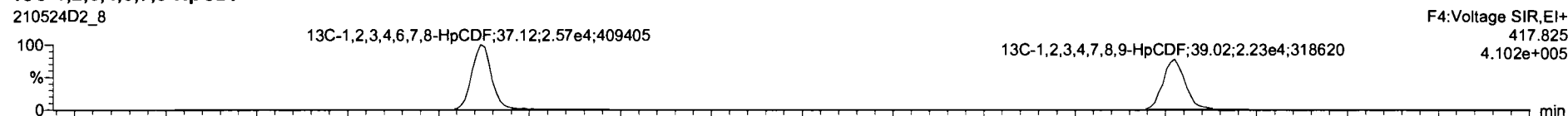
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Printed: Wednesday, May 26, 2021 12:19:22 Pacific Daylight Time

Name: 210524D2_8, Date: 25-May-2021, Time: 00:36:39, ID: 2105020-03 USMPDI-017SC-A-12-13-210429 15.97, Description: USMPDI-017SC-A-12-13-210429

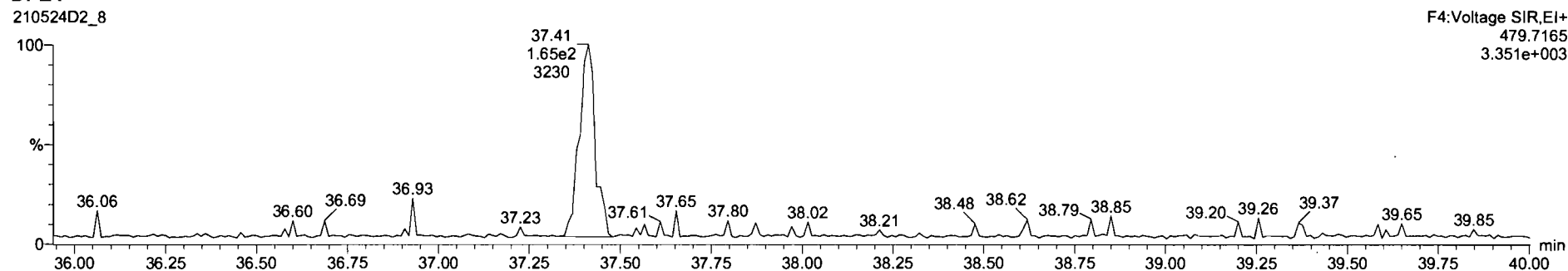
1,2,3,4,6,7,8-HpCDF



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



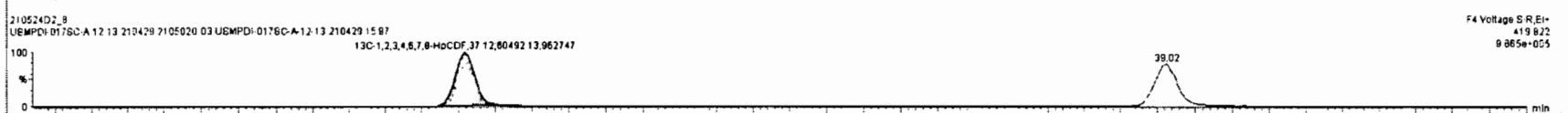
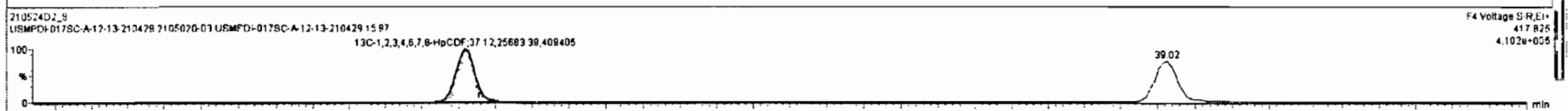
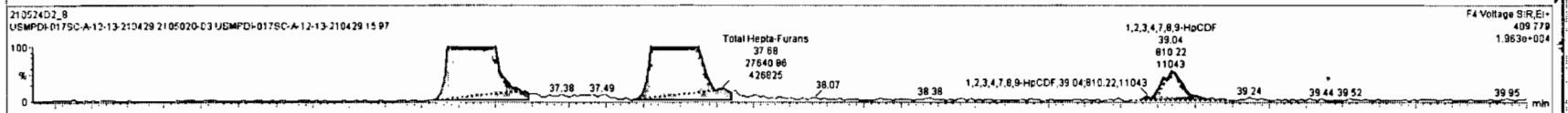
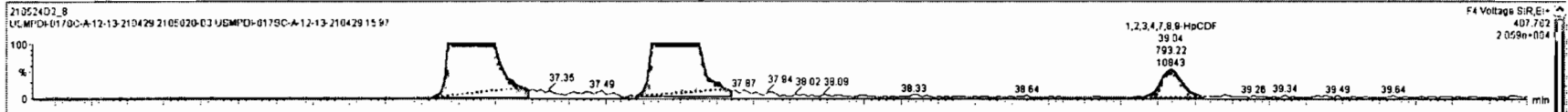
DPE4



21052402.8 - 21052020-03 USMFD-0175C-A-12-13-210429 15 97 - USMFD-0175C-A-12-13-210429

#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.95	10.102			51.0	0.263	52.0	
46	Total Hexa-Furans				1.12	10.102			111	0.326	111	
47	Total Hepta-Furans				1.18	10.102			226	0.553	226	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											

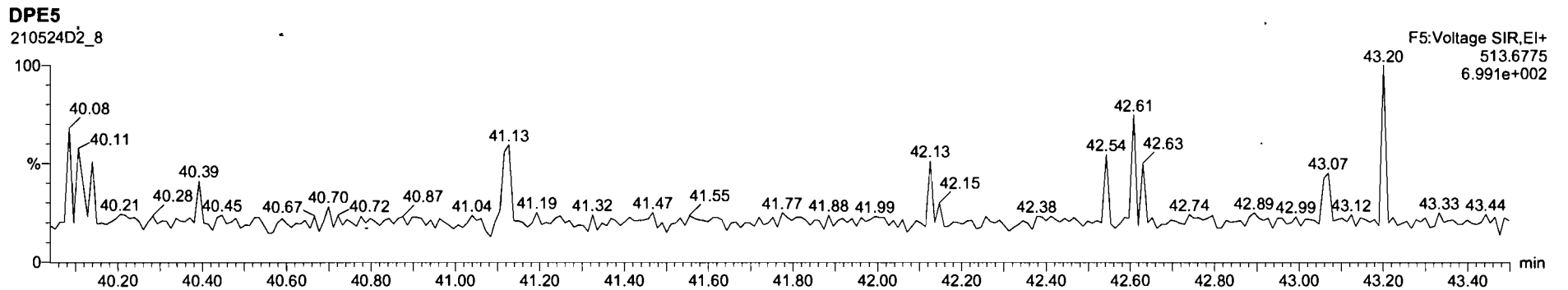
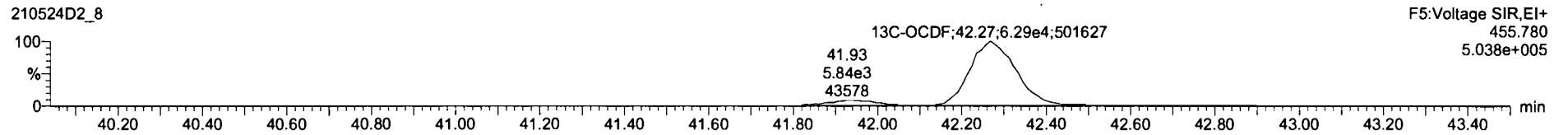
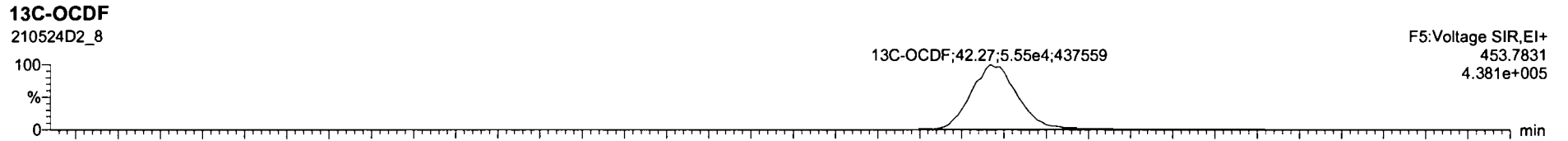
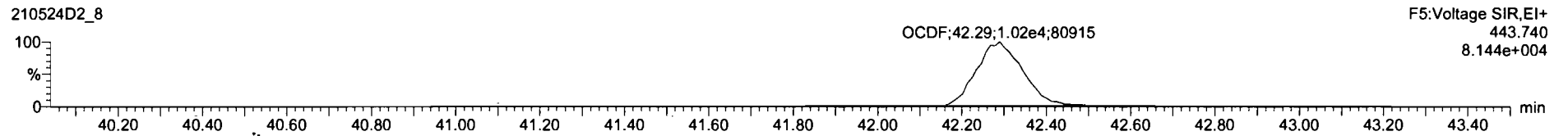
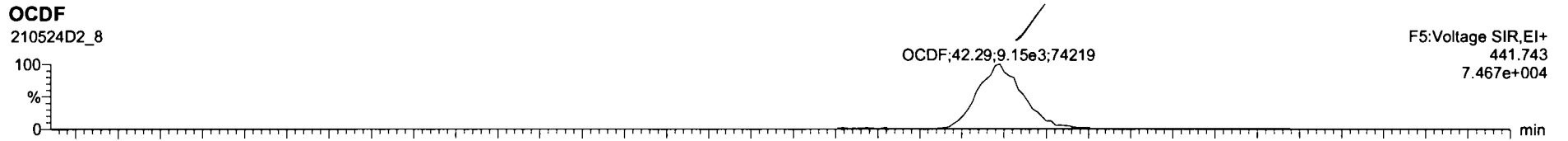
#	Name	RT - 1	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	37.13	2.602e4	2.539e4	1.03	NO	101.85	101.85
2	Total Hepta-Furans	37.69	2.824e4	2.784e4	1.06	NO	120.12	120.12
3	1,2,3,4,7,8,9-HpCDF	39.04	7.932e2	8.102e2	0.98	NO	3.5429	3.5429



Dataset: Untitled

Last Altered: Wednesday, May 26, 2021 12:19:15 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:19:22 Pacific Daylight Time

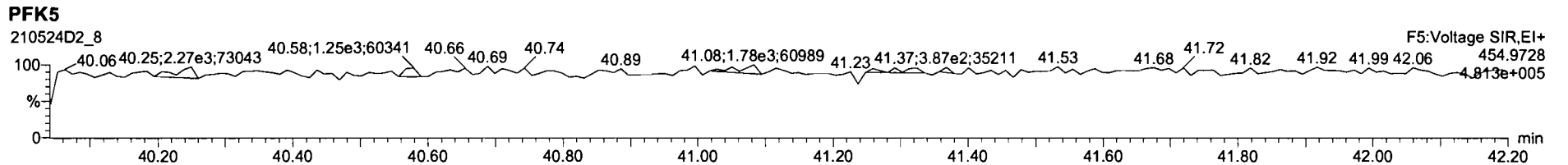
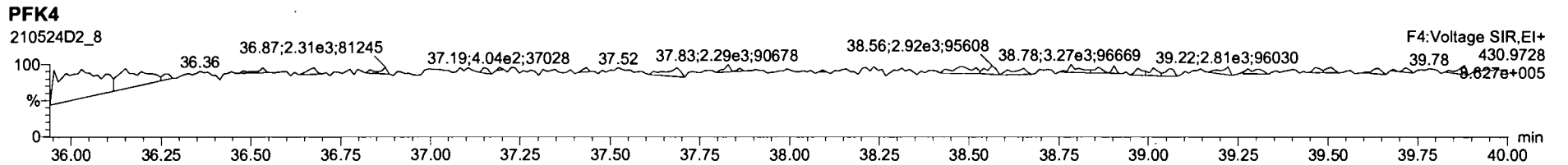
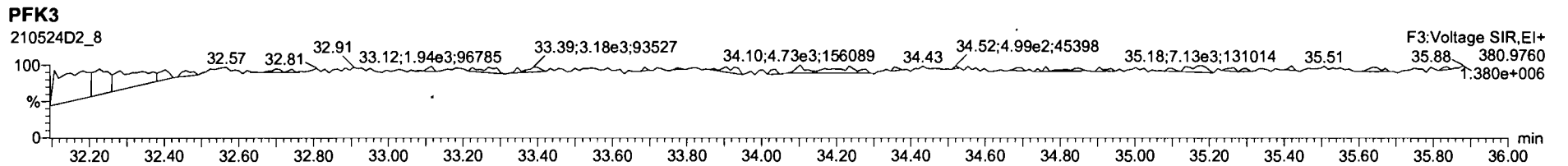
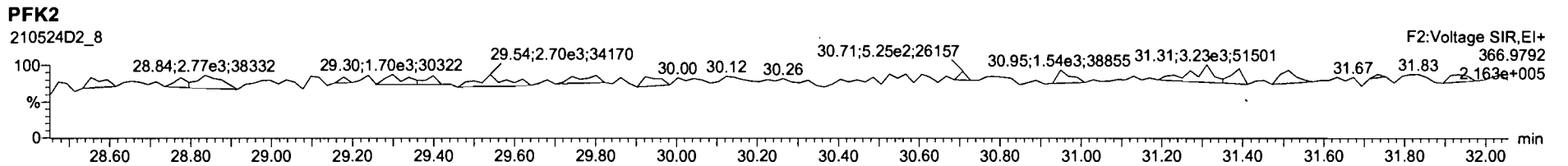
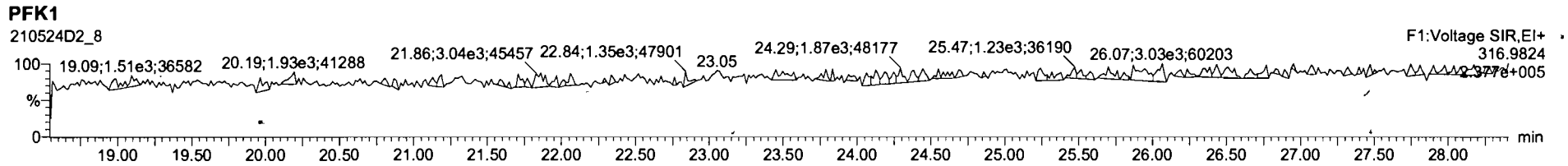
Name: 210524D2_8, Date: 25-May-2021, Time: 00:36:39, ID: 2105020-03 USMPDI-017SC-A-12-13-210429 15.97, Description: USMPDI-017SC-A-12-13-210429



Dataset: Untitled

Last Altered: Wednesday, May 26, 2021 12:19:15 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:19:22 Pacific Daylight Time

Name: 210524D2_8, Date: 25-May-2021, Time: 00:36:39, ID: 2105020-03 USMPDI-017SC-A-12-13-210429 15.97, Description: USMPDI-017SC-A-12-13-210429



Dataset: U:\VG7.PRO\Results\210607D4\210607D4-3.qld

Last Altered: Wednesday, June 09, 2021 14:58:22 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 14:58:37 Pacific Daylight Time

hr 6.9.2021

07/06/10/2021

Method: Untitled 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429, Task: ST210607D4-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	1.05	10.053					0.158	
2 1,2,3,7,8-PeCDD			NO	0.881	10.053					0.211	
3 1,2,3,4,7,8-HxCDD			NO	1.14	10.053					0.469	
4 1,2,3,6,7,8-HxCDD			NO	1.01	10.053					0.444	
5 1,2,3,7,8,9-HxCDD			NO	1.02	10.053					0.612	
6 1,2,3,4,6,7,8-HpCDD	4.30e2	0.91	NO	1.07	10.053	38.20	1.001	3.8694		0.452	3.87
7 OCDD	3.43e3	0.90	NO	1.00	10.053	41.36	1.000	41.491		0.807	41.5
8 2,3,7,8-TCDF			NO	0.864	10.053					0.157	
9 1,2,3,7,8-PeCDF			NO	0.948	10.053					0.186	
10 2,3,4,7,8-PeCDF			NO	1.04	10.053					0.175	
11 1,2,3,4,7,8-HxCDF			NO	1.04	10.053					0.186	
12 1,2,3,6,7,8-HxCDF			NO	1.07	10.053					0.192	
13 2,3,4,6,7,8-HxCDF			NO	1.12	10.053					0.197	
14 1,2,3,7,8,9-HxCDF			NO	1.10	10.053					0.184	
15 1,2,3,4,6,7,8-HpCDF	1.94e2	0.86	YES	1.16	10.053	37.09	1.000	1.4268		0.543	1.29
16 1,2,3,4,7,8,9-HpCDF			NO	1.19	10.053					0.425	
17 OCDF	8.23e1	0.75	YES	0.909	10.053	41.66	1.000	0.87535		0.325	0.799
18 13C-2,3,7,8-TCDD	5.12e4	0.75	NO	1.15	10.053	26.97	1.025	187.05	94.0	0.794	
19 13C-1,2,3,7,8-PeCDD	3.60e4	0.62	NO	0.887	10.053	31.19	1.185	169.98	85.4	0.766	
20 13C-1,2,3,4,7,8-HxCDD	2.44e4	1.29	NO	0.645	10.053	34.64	1.014	185.59	93.3	1.00	
21 13C-1,2,3,6,7,8-HxCDD	2.82e4	1.23	NO	0.717	10.053	34.75	1.017	192.91	97.0	0.900	
22 13C-1,2,3,7,8,9-HxCDD	2.65e4	1.25	NO	0.714	10.053	35.08	1.027	181.90	91.4	0.903	
23 13C-1,2,3,4,6,7,8-HpCDD	2.08e4	1.05	NO	0.583	10.053	38.18	1.118	174.79	87.9	2.87	
24 13C-OCDD	3.28e4	0.91	NO	0.451	10.053	41.35	1.210	357.23	89.8	1.51	
25 13C-2,3,7,8-TCDF	7.07e4	0.78	NO	1.09	10.053	26.39	1.003	169.66	85.3	0.983	
26 13C-1,2,3,7,8-PeCDF	5.30e4	1.66	NO	0.805	10.053	30.02	1.141	172.39	86.7	1.07	
27 13C-2,3,4,7,8-PeCDF	5.19e4	1.68	NO	0.792	10.053	31.01	1.179	171.56	86.2	1.09	
28 13C-1,2,3,4,7,8-HxCDF	3.44e4	0.51	NO	0.997	10.053	33.67	0.986	169.28	85.1	1.66	
29 13C-1,2,3,6,7,8-HxCDF	3.52e4	0.50	NO	1.03	10.053	33.83	0.990	167.89	84.4	1.61	
30 13C-2,3,4,6,7,8-HxCDF	3.08e4	0.51	NO	0.940	10.053	34.53	1.011	160.79	80.8	1.77	

Dataset: U:\VG7.PRO\Results\210607D4\210607D4-3.qld

Last Altered: Wednesday, June 09, 2021 14:58:22 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 14:58:37 Pacific Daylight Time

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429, Task: ST210607D4-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DU	EMPC
31	13C-1,2,3,7,8,9-HxCDF	3.18e4	0.53	NO	0.852	10.053	35.62	1.043	183.06	92.0	1.95
32	13C-1,2,3,4,6,7,8-HpCDF	2.33e4	0.43	NO	0.727	10.053	37.08	1.086	157.67	79.3	1.57
33	13C-1,2,3,4,7,8,9-HpCDF	2.09e4	0.42	NO	0.608	10.053	38.83	1.137	168.82	84.9	1.87
34	13C-OCDF	4.12e4	0.90	NO	0.631	10.053	41.65	1.219	320.23	80.5	1.42
35	37Cl-2,3,7,8-TCDD	3.99e4			2.22	10.053	26.98	1.026	75.269	94.6	0.0711
36	13C-1,2,3,4-TCDD	4.76e4	0.79	NO	1.00	10.053	26.31	1.000	198.94	100	0.909
37	13C-1,2,3,4-TCDF	7.61e4	0.73	NO	1.00	10.053	25.07	1.000	198.94	100	1.07
38	13C-1,2,3,4,6,9-HxCDF	4.05e4	0.49	NO	1.00	10.053	34.16	1.000	198.94	100	1.66
39	Total Tetra-Dioxins				1.05	10.053					0.102
40	Total Penta-Dioxins				0.881	10.053					0.0780
41	Total Hexa-Dioxins				1.01	10.053					0.310
42	Total Hepta-Dioxins				1.07	10.053			8.4728		0.452
43	Total Tetra-Furans				0.864	10.053					0.0748
44	1st Func. Penta-Furans				0.948	10.053			0.52386		0.0305
45	Total Penta-Furans				0.948	10.053					0.0834
46	Total Hexa-Furans				1.12	10.053			1.0265		0.0994
47	Total Hepta-Furans				1.16	10.053			1.3580		0.0620

Dataset: U:\VG7.PRO\Results\210607D4\210607D4-3.qld

Last Altered: Wednesday, June 09, 2021 14:58:22 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 14:58:37 Pacific Daylight Time

Method: Untitled 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429, Task: ST210607D4-1

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	37.37	4.162e3	5.185e3	2.497e2	2.621e2	0.95	NO	5.118e2	4.6034	4.6034	0.452
2	38.20	3.917e3	4.079e3	2.045e2	2.257e2	0.91	NO	4.302e2	3.8694	3.8694	0.452

Tetra-Furans

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

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	27.67	1.842e3	1.118e3	7.784e1	5.324e1	1.46	NO	1.311e2	0.52386	0.52386	0.0305

Dataset: U:\VG7.PRO\Results\210607D4\210607D4-3.qld

Last Altered: Wednesday, June 09, 2021 14:58:22 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 14:58:37 Pacific Daylight Time

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429, Task: ST210607D4-1

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.52	7.510e2	5.010e2	3.955e1	3.539e1	1.12	NO	7.494e1	0.40398	0.40398	0.0994
2	Total Hexa-Furans	33.17	1.374e3	7.040e2	6.572e1	4.976e1	1.32	NO	1.155e2	0.62253	0.62253	0.0994

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.09	1.817e3	2.299e3	8.983e1	1.044e2	0.86	YES	1.942e2	0.00000	1.2943	0.0543
2	Total Hepta-Furans	37.61	1.590e3	1.988e3	8.675e1	8.846e1	0.98	NO	1.752e2	1.3580	1.3580	0.0620

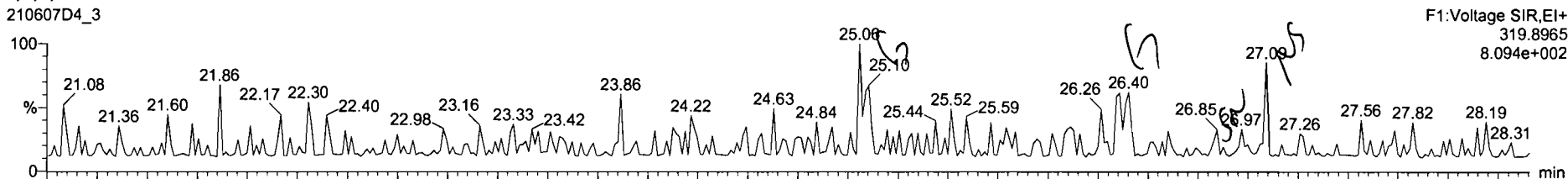
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Last Altered: Tuesday, June 08, 2021 06:49:48 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:40:01 Pacific Daylight Time

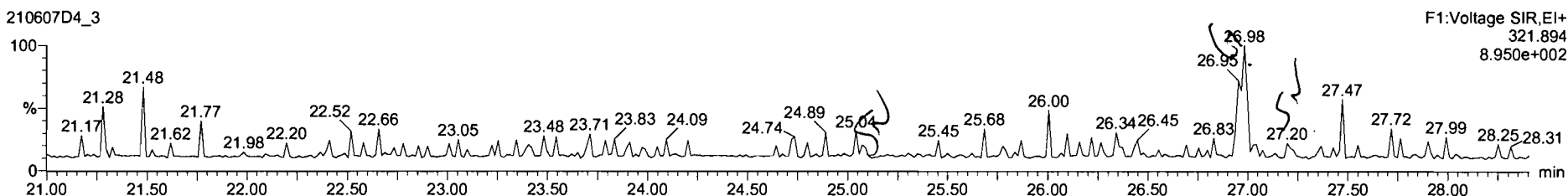
Method: Untitled 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429

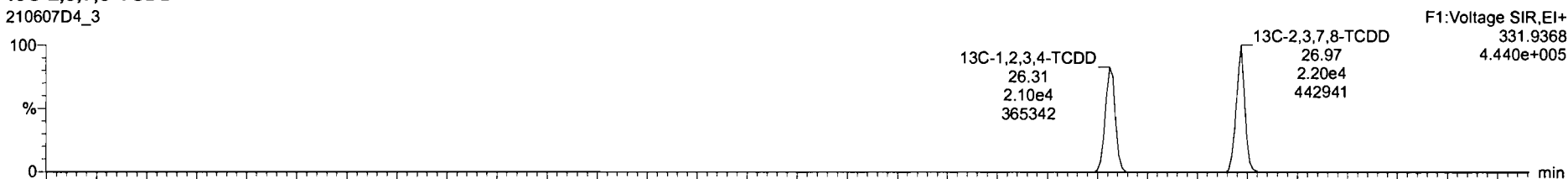
2,3,7,8-TCDD
210607D4_3



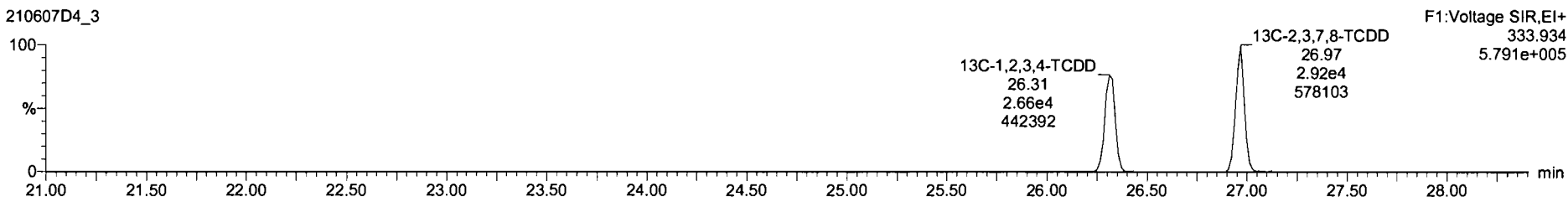
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13C-2,3,7,8-TCDD
210607D4_3



210607D4_3

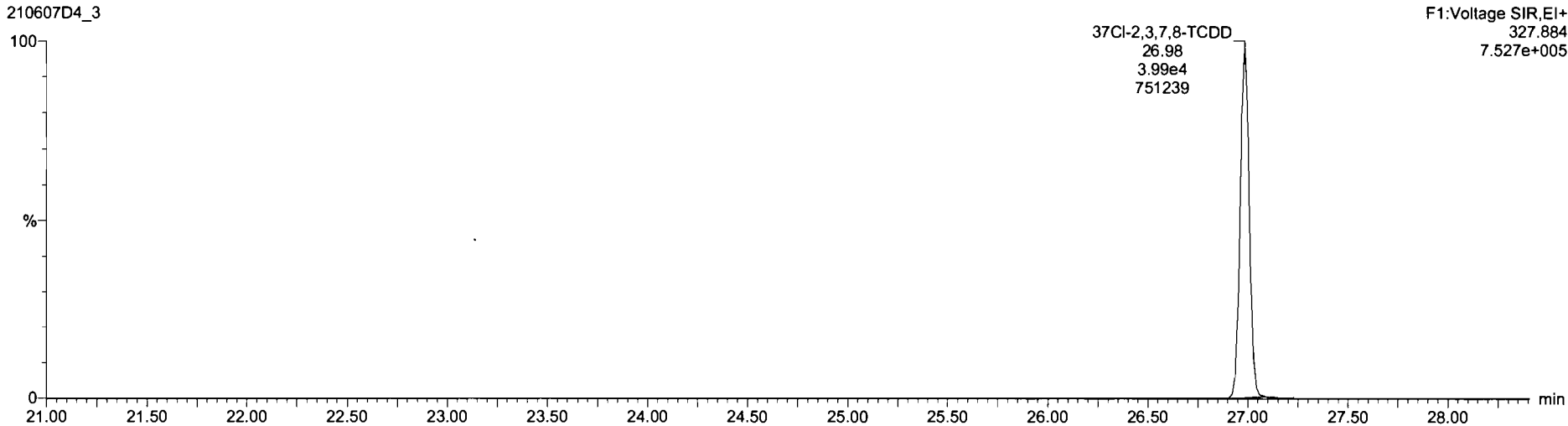


Dataset: U:\VG7.PRO\Results\210607D4\210607D4-3.qld

Last Altered: Tuesday, June 08, 2021 06:49:48 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:40:01 Pacific Daylight Time

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429

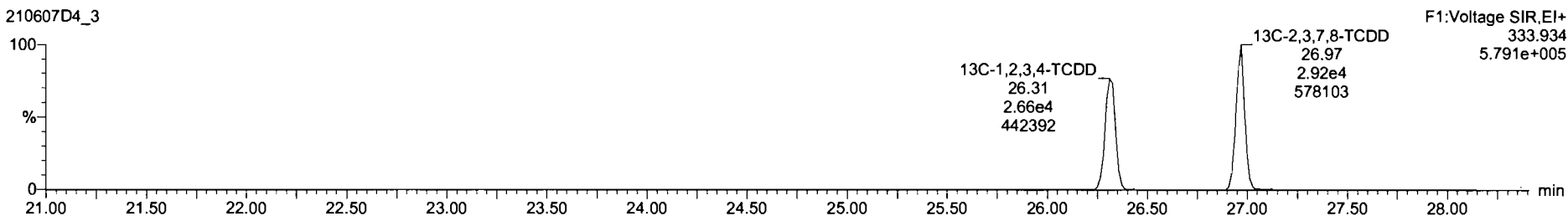
37Cl-2,3,7,8-TCDD
210607D4_3



13C-1,2,3,4-TCDD
210607D4_3



210607D4_3



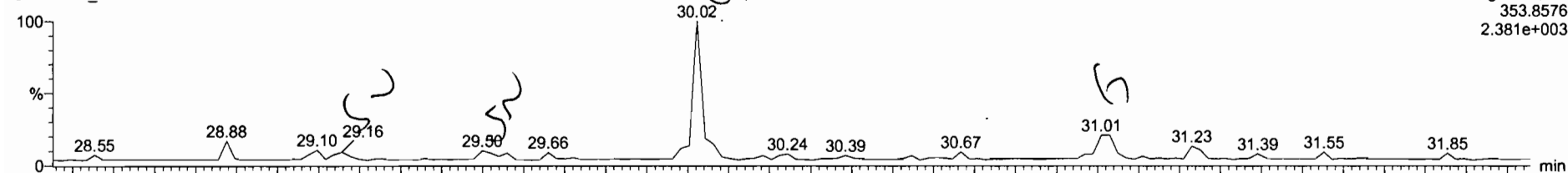
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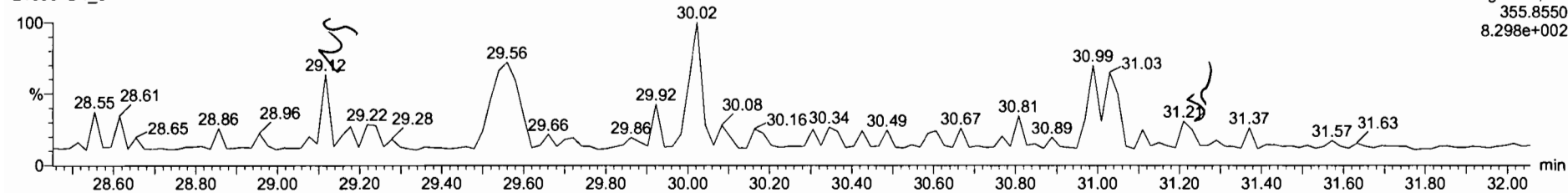
Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429

1,2,3,7,8-PeCDD

210607D4_3



210607D4_3

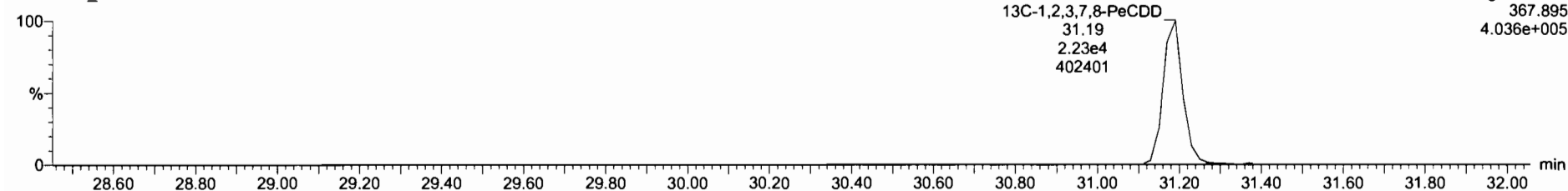


13C-1,2,3,7,8-PeCDD

210607D4_3



210607D4_3



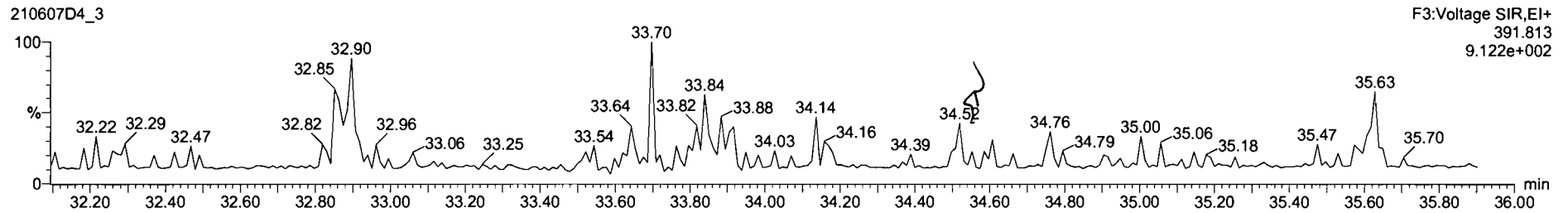
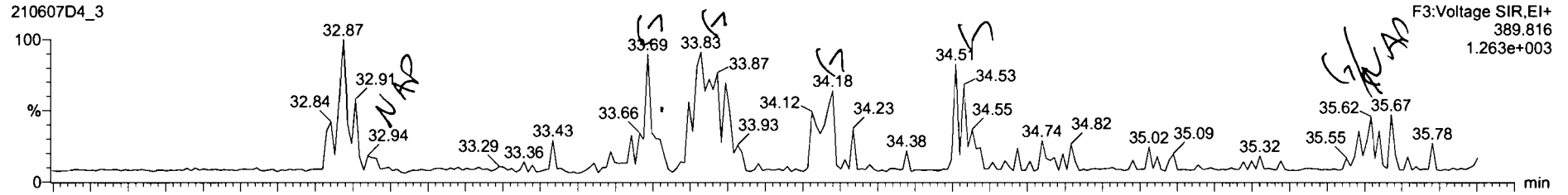
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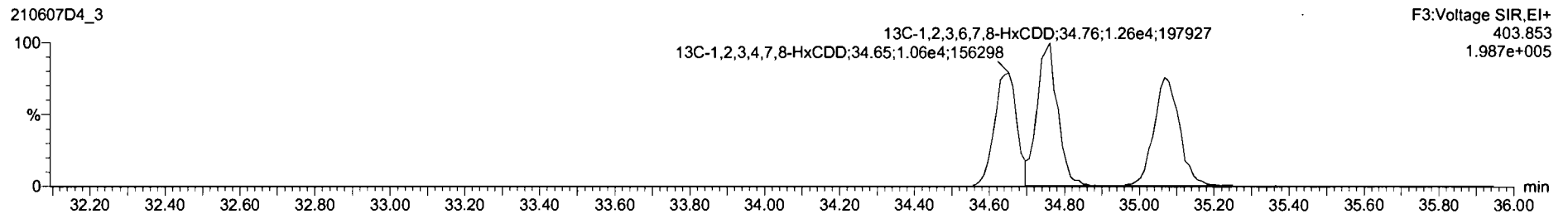
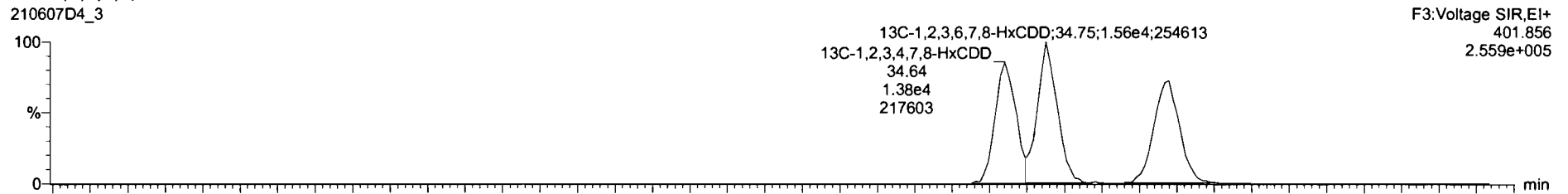
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Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429

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



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



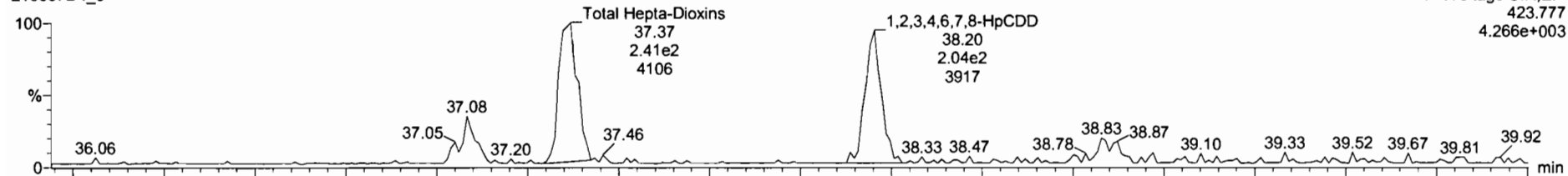
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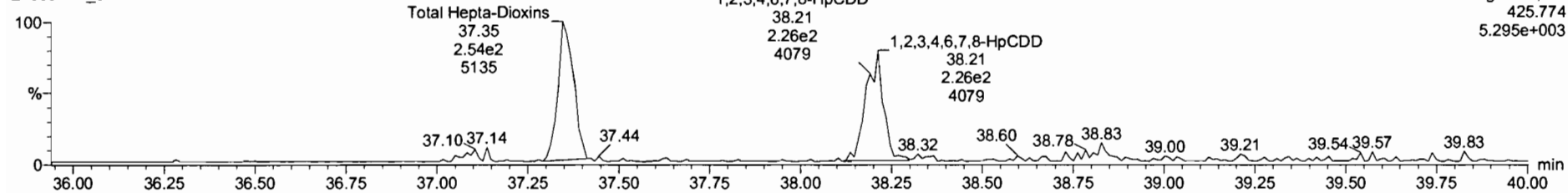
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1,2,3,4,6,7,8-HpCDD

210607D4_3

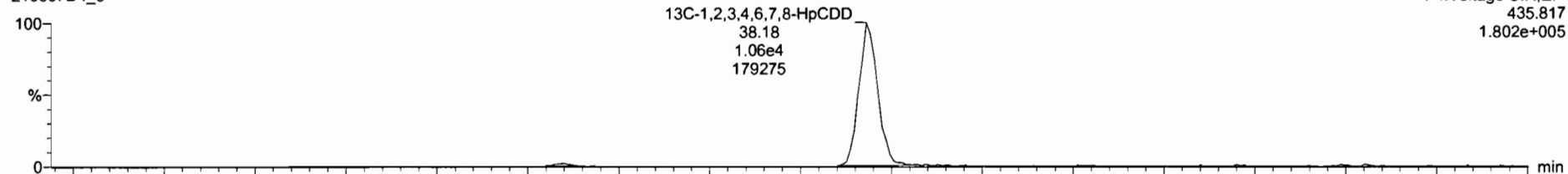


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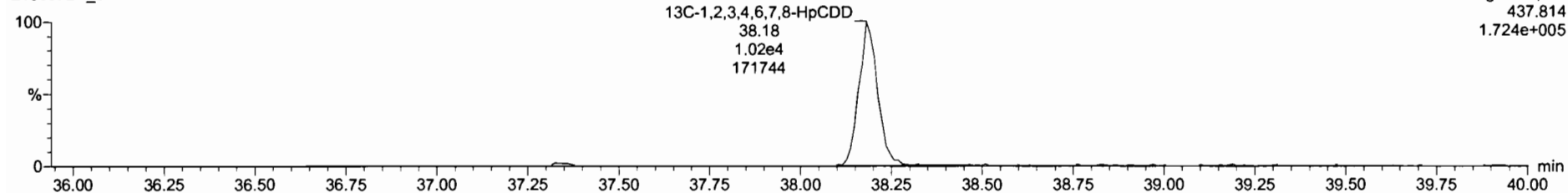


13C-1,2,3,4,6,7,8-HpCDD

210607D4_3

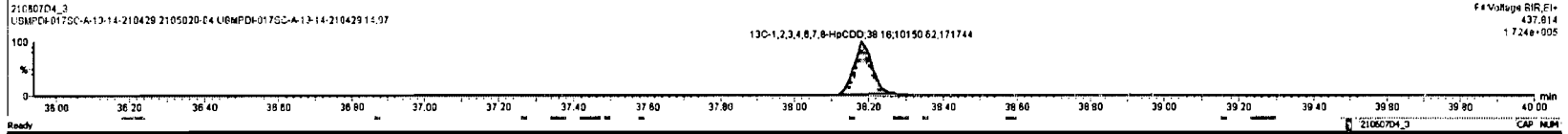
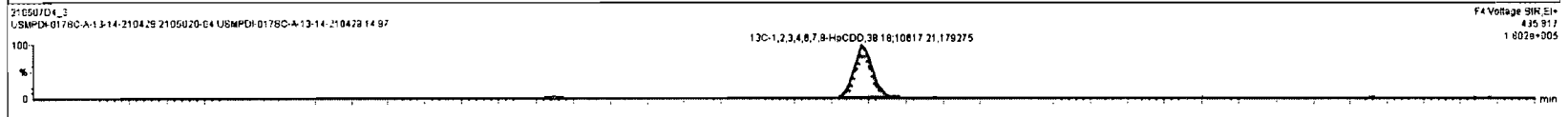
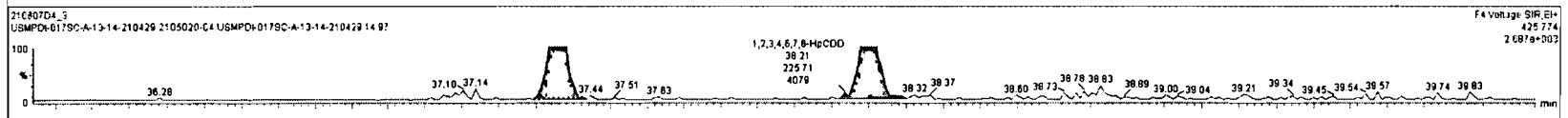
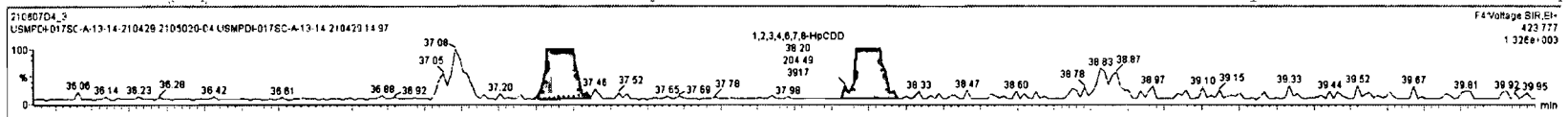


210607D4_3



Name	Resp	RA	nHy	nRF	nIncl	RT	RRT	Conc	%Rec	CL	EMPC
42 Total Hepta-Dioxins				1.07	10.053			8.47		0.462	8.47
43 Total Tetra-Furans				0.96	10.053					0.0748	
44 1st Func. Penta-Furans				0.95	10.053					0.0305	
45 Total Penta-Furans				0.95	10.053					0.0834	
46 Total Hexa-Furans				1.12	10.053					0.0994	
47 Total Hepta-Furans				1.18	10.053					0.0620	
48 PFK1											
49 PFK2											

Name	RT	Int Resp	n2 Resp	RA	nHy	EMPC	Conc.
Total Hepta-Dioxins	37.37	2.49762	2.62162	0.95	NO	4.6034	4.6034
1,2,3,4,6,7,8-HpCDD	38.20	2.04562	2.25762	0.91	NO	3.8894	3.8894

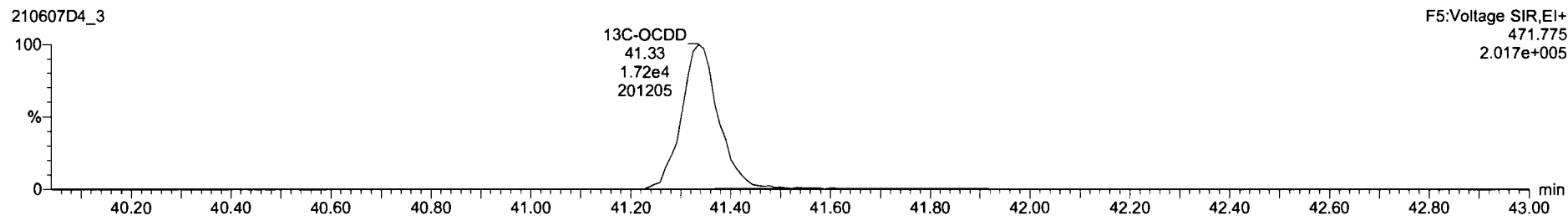
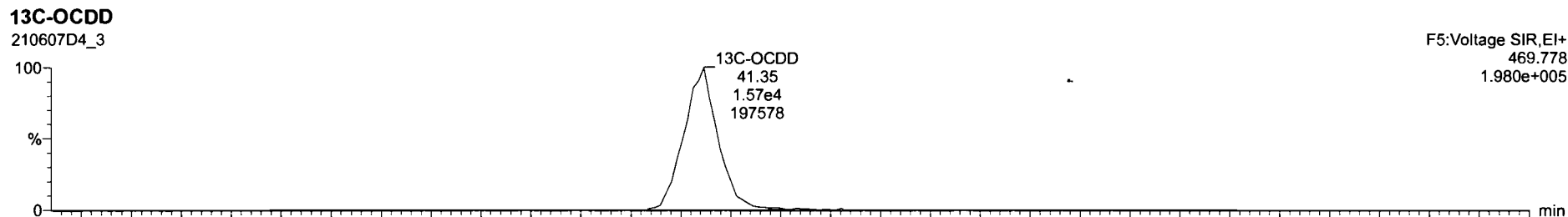
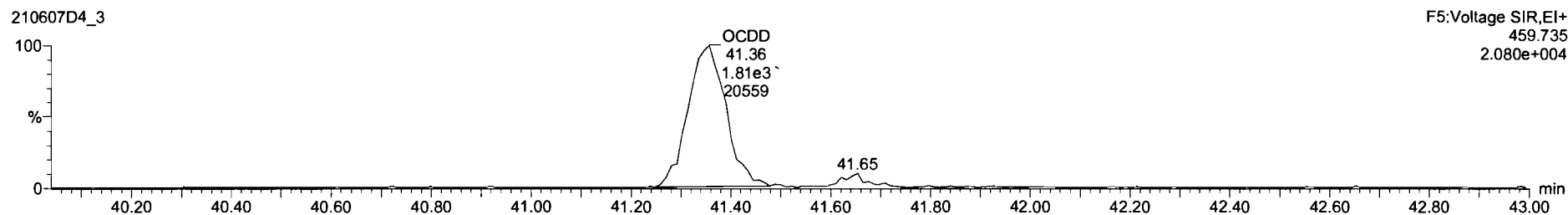
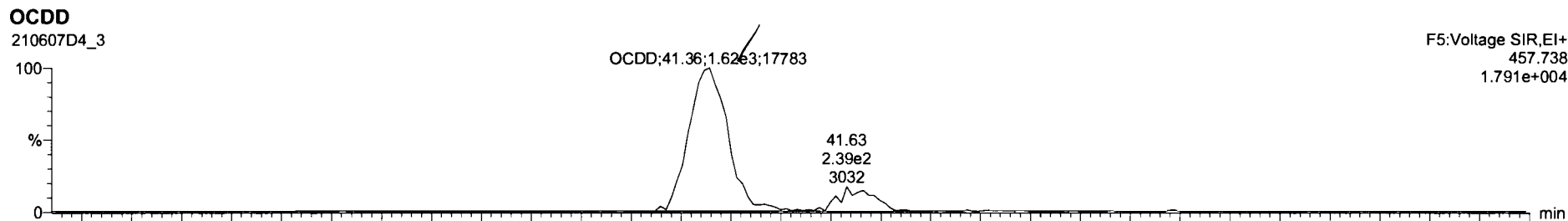


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Printed: Tuesday, June 08, 2021 11:40:01 Pacific Daylight Time

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429



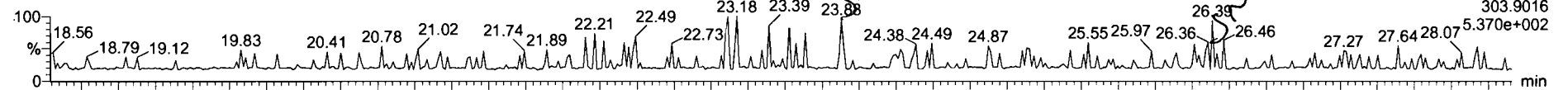
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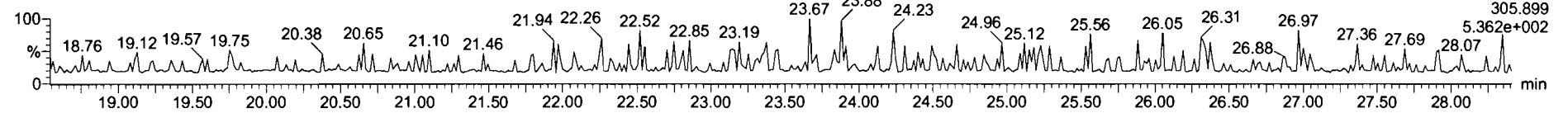
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2,3,7,8-TCDF

210607D4_3

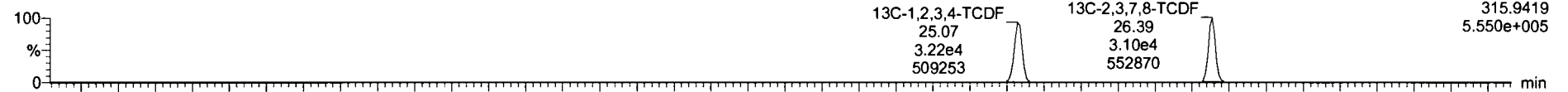


210607D4_3

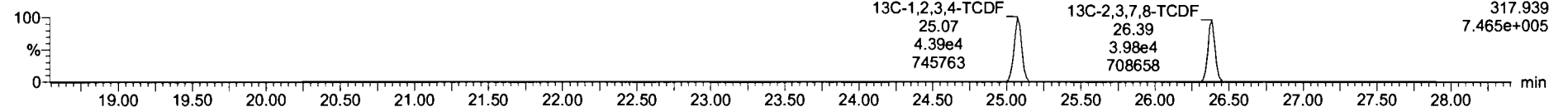


13C-2,3,7,8-TCDF

210607D4_3

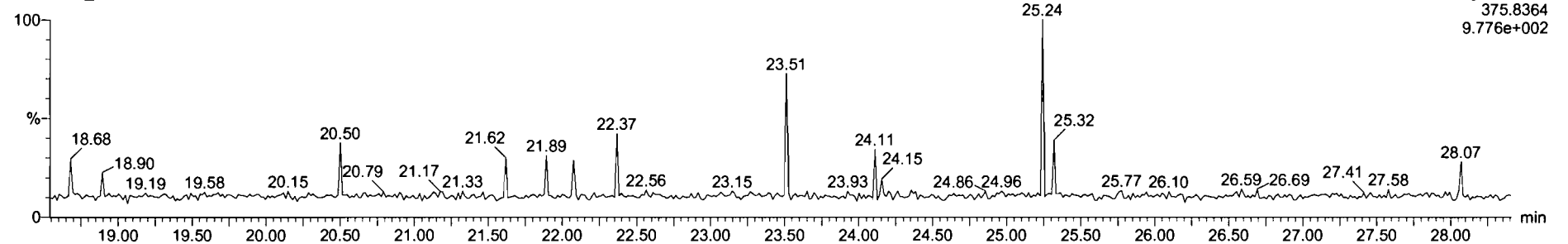


210607D4_3



DPE1

210607D4_3



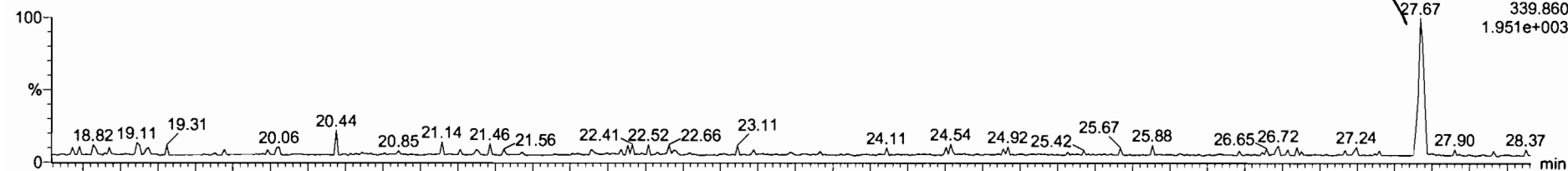
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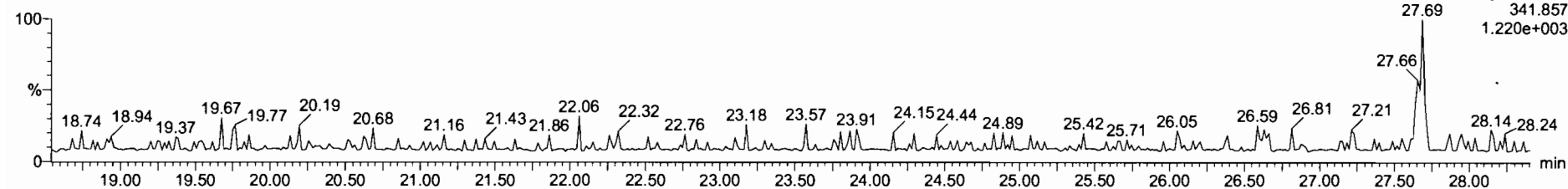
Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429

1st Func. Penta-Furans

210607D4_3

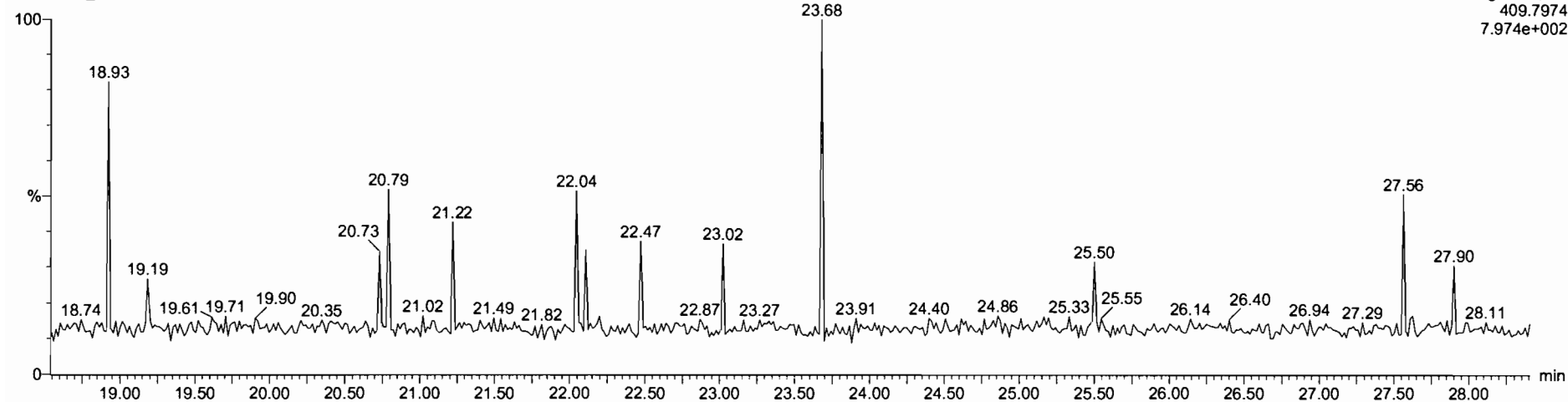


210607D4_3



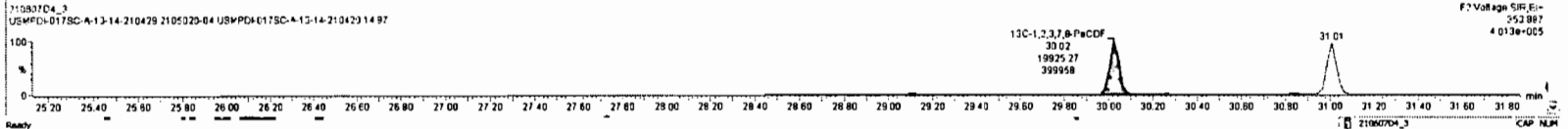
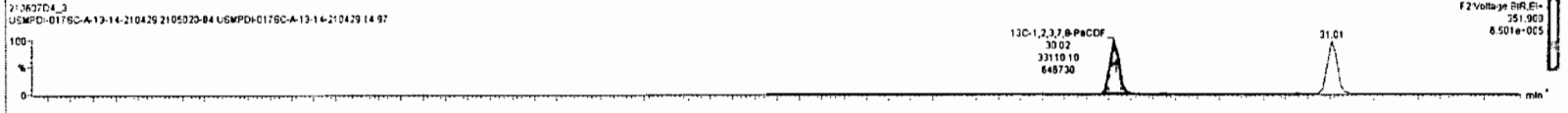
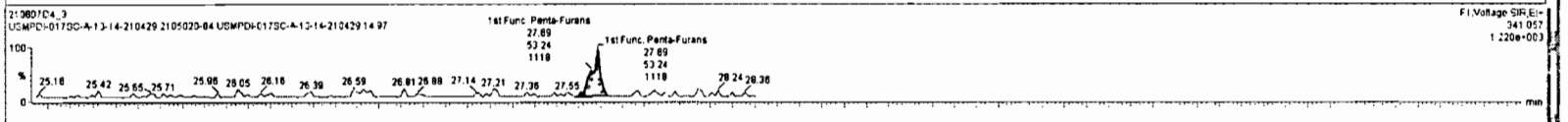
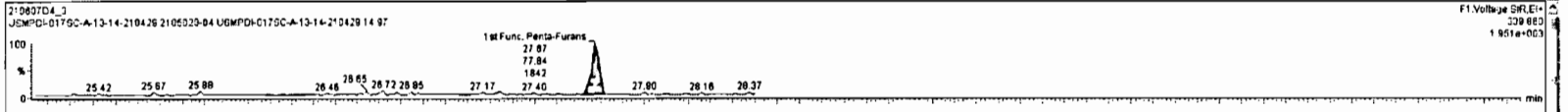
DPE6

210607D4_3



Name	Resp	RA	ily	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	ENPC
42 Total Hepta-Dioxins				1.07	10.053			8.47		0.452	8.47
43 Total Tetra-Furans				0.86	10.053					0.0748	
44 1st Func. Penta-Furans				0.95	10.083			0.524		0.0305	0.824
45 Total Penta-Furans				0.95	10.053					0.0834	
46 Total Hexa-Furans				1.12	10.053					0.0994	
47 Total Hepta-Furans				1.16	10.053					0.0620	
48 PF1											
49 PF2											

Name	RT	wt Resp	nc Resp	RA	ily	ENPC	Conc
1 1st Func. Penta-Furans	27.87	7.784e1	5.324e1	1.48	NO	0.52386	0.52386

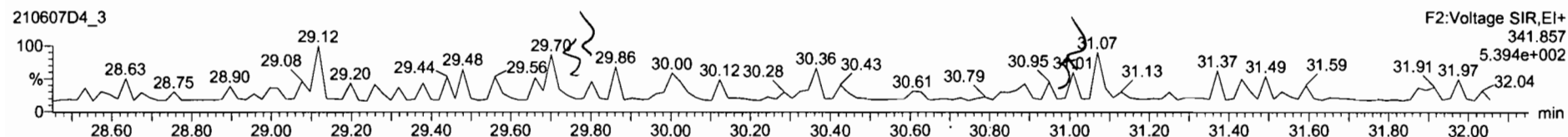
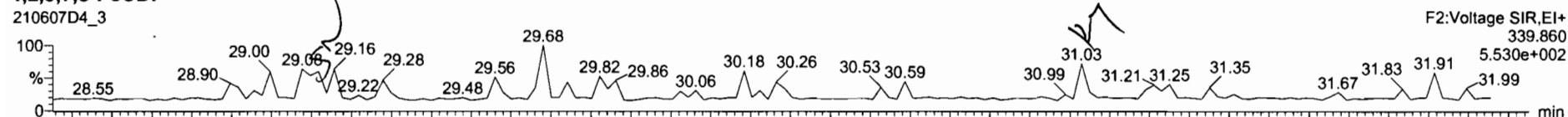


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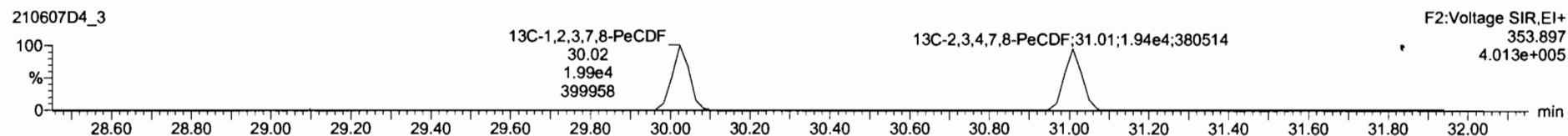
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Printed: Tuesday, June 08, 2021 11:40:01 Pacific Daylight Time

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429

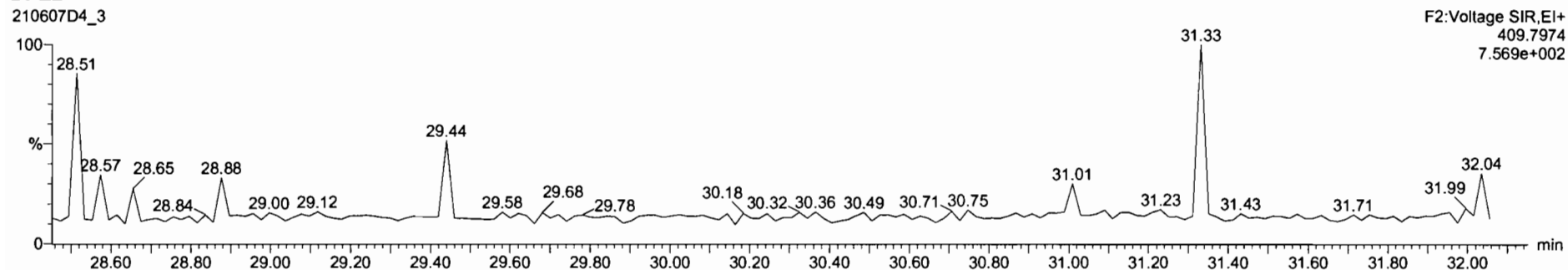
1,2,3,7,8-PeCDF



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



DPE2

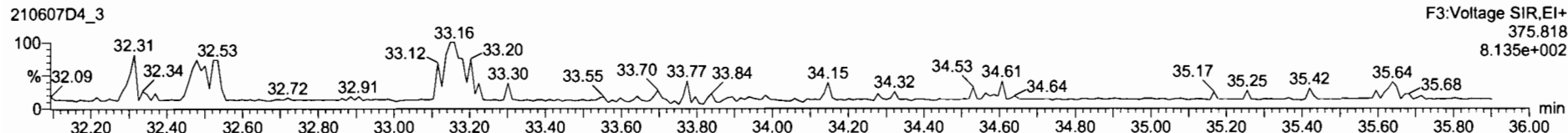
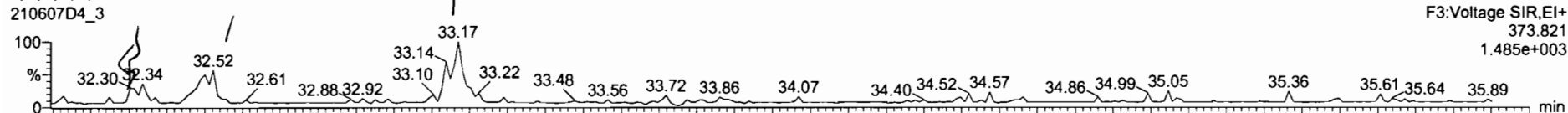


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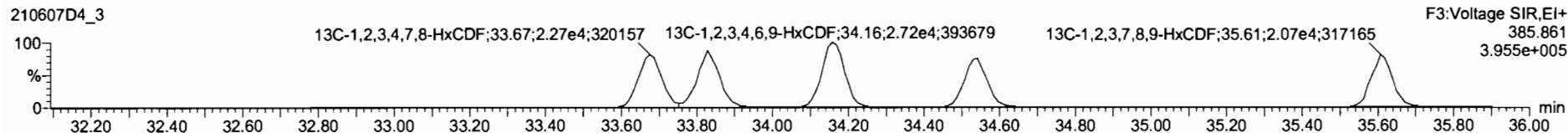
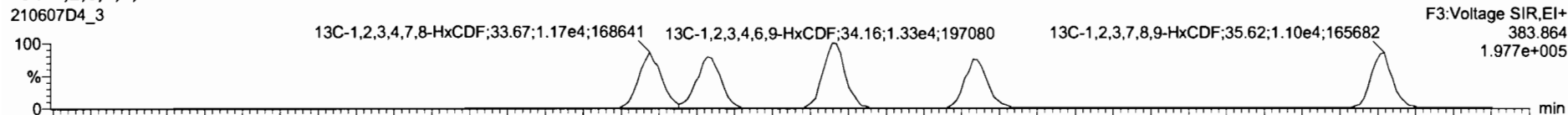
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Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429

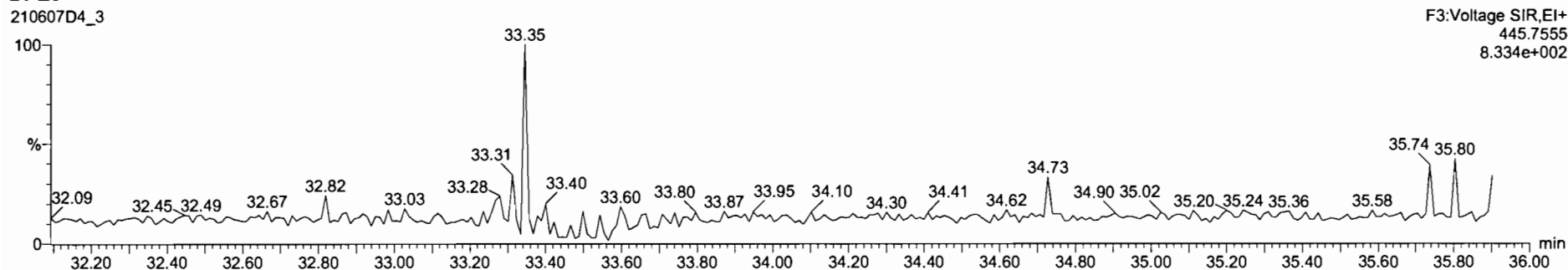
1,2,3,4,7,8-HxCDF



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



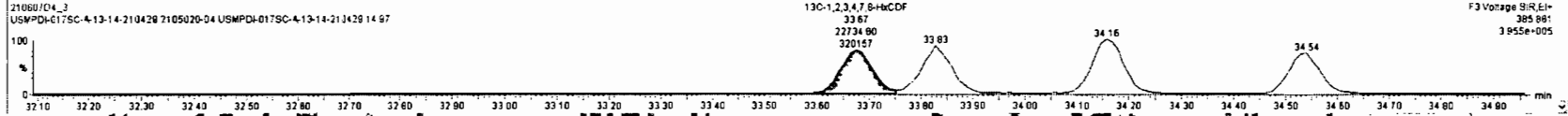
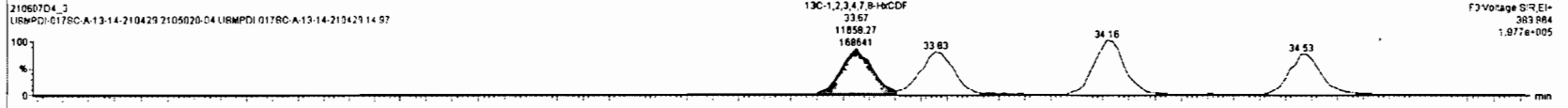
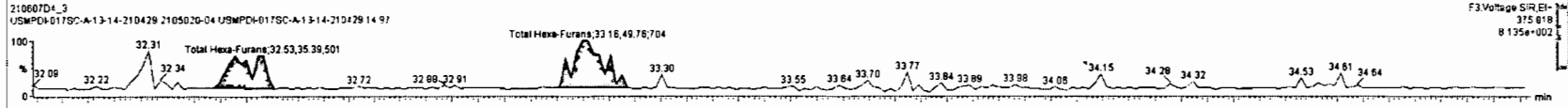
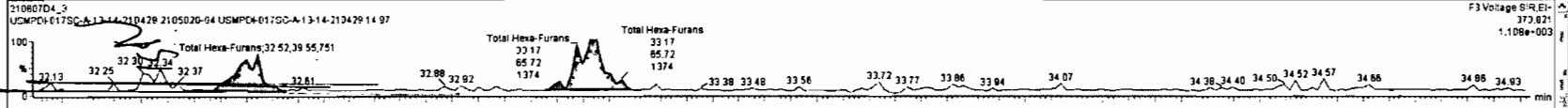
DPE3



210507D4_3 - 210507D4_3 - 210507D4_3 - 210507D4_3 - 210507D4_3 - 210507D4_3 - 210507D4_3 - 210507D4_3 - 210507D4_3 - 210507D4_3

Name	Resp	RA	rvy	RRF	wtAvr	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.053			8.47	0.452		8.47
43 Total Tetra-Furans				0.86	10.053				0.748		
44 1,8i-Furans, Hexa-Furans				0.95	10.053			0.524	0.0305		0.524
45 Total Hexa-Furans				0.95	10.053				0.0834		
46 Total Hexa-Furans				1.12	10.053			1.03	0.0884		1.03
47 Total Hexa-Furans				1.16	10.053				0.0620		
48 PPK1											
49 PPK2											

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc
1 Total Hexa-Furans	32.62	3.955e1	3.539e1	1.12	NO	0.40398	0.40398
2 Total Hexa-Furans	33.17	6.572e1	4.876e1	1.32	NO	0.62253	0.62253

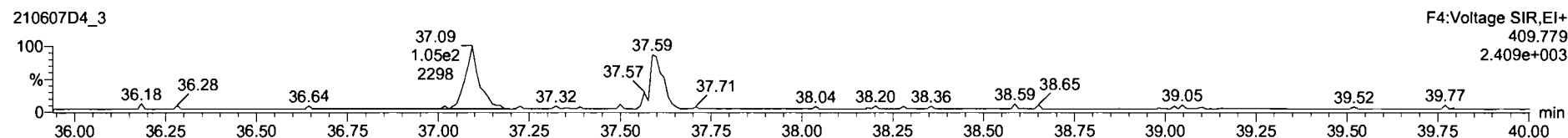
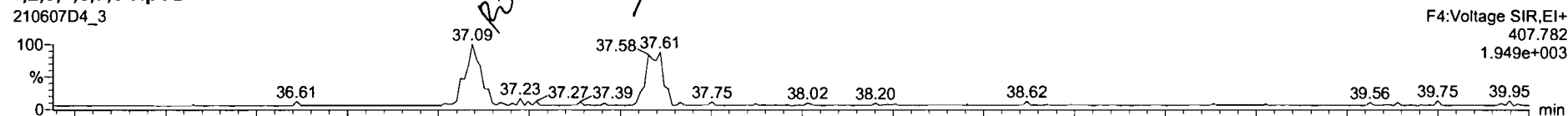


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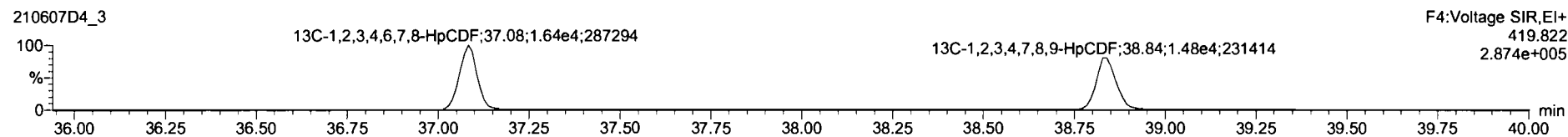
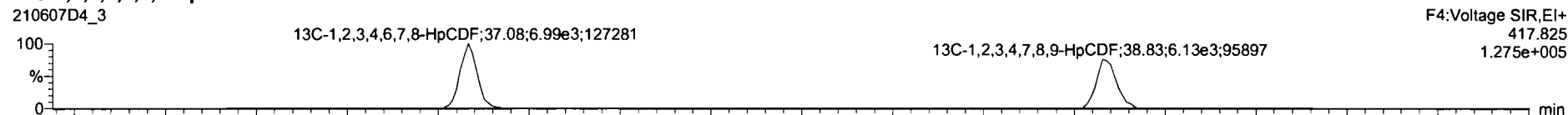
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Printed: Tuesday, June 08, 2021 11:40:01 Pacific Daylight Time

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429

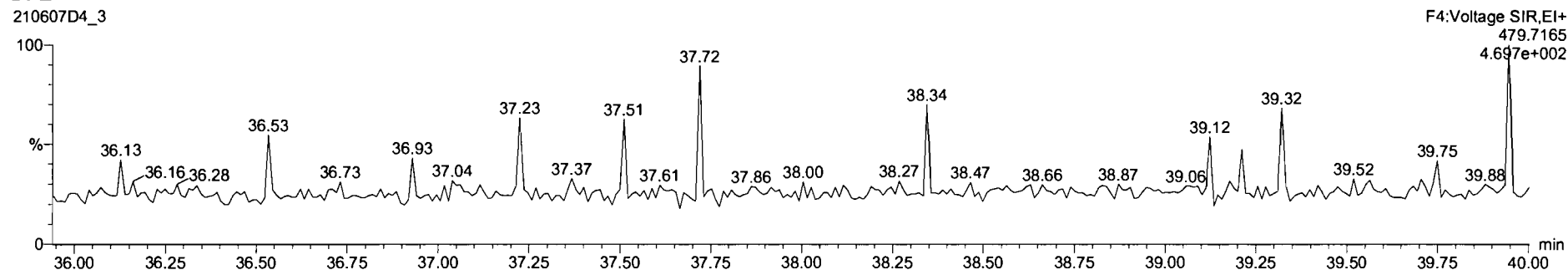
1,2,3,4,6,7,8-HpCDF



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

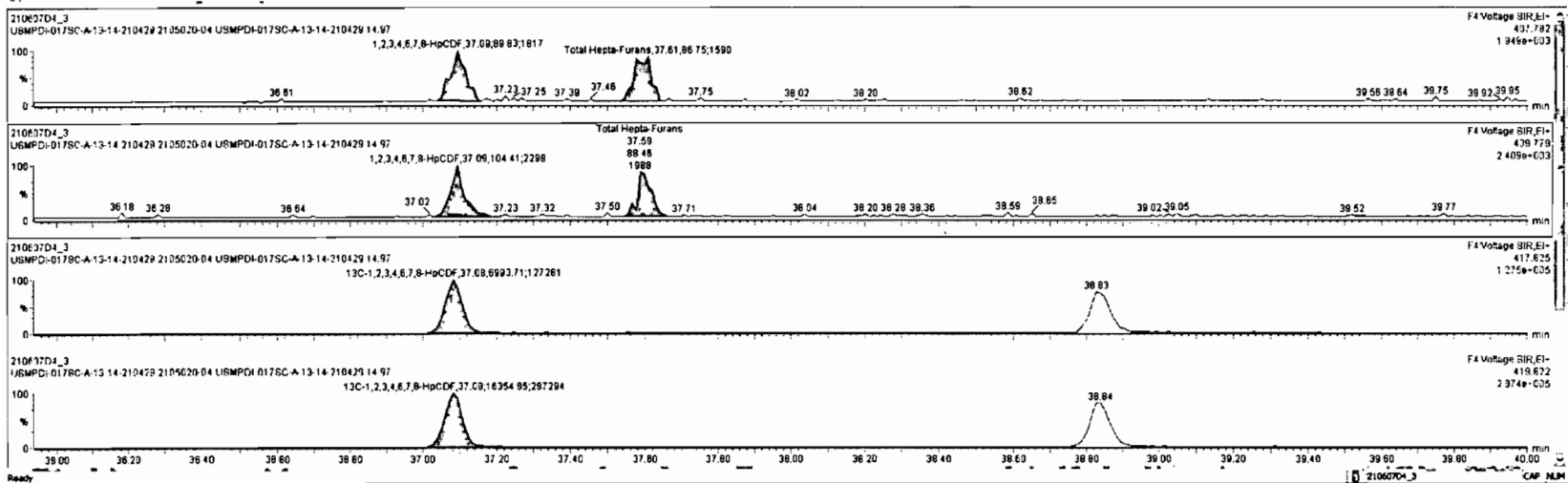


DPE4



Name	Resp	RA	n/y	RRF	wtAvol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Furans				1.07	10.053			8.47		0.452	8.47
43 Total Hepta-Furans				0.86	10.053				0.0746		
44 1st Func. Hepta-Furans				0.85	10.053			0.524	0.0305	0.524	
45 Total Hepta-Furans				0.95	10.053				0.0834		
46 Total Hepta-Furans				1.12	10.053			1.03	0.0994	1.03	
47 Total Hepta-Furans				1.18	10.053			1.36	0.0820	2.86	
48 PPK1											
49 PPK2											

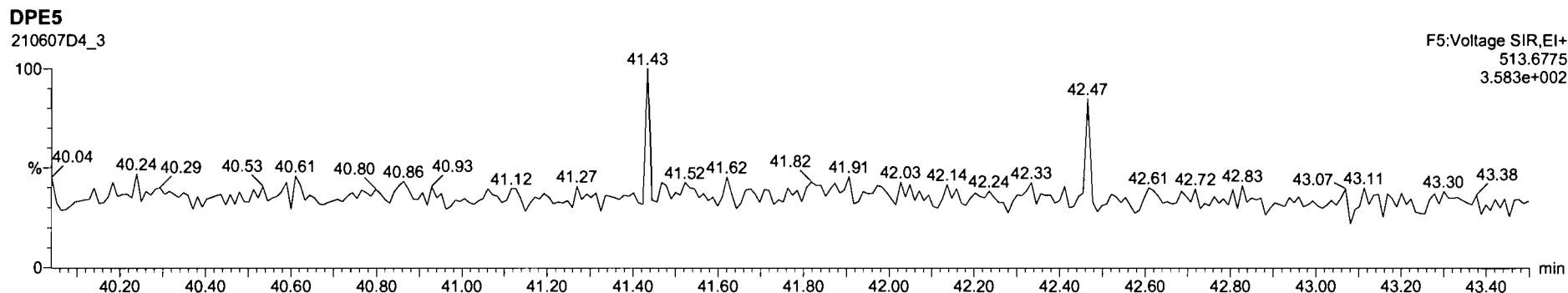
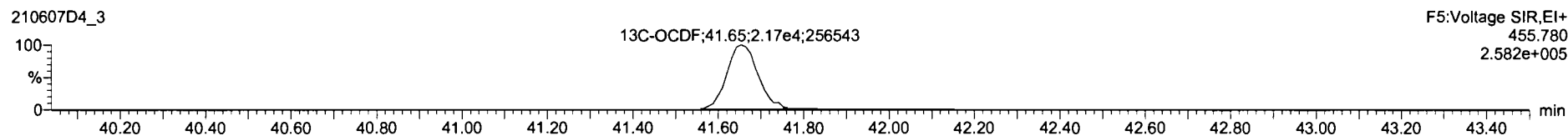
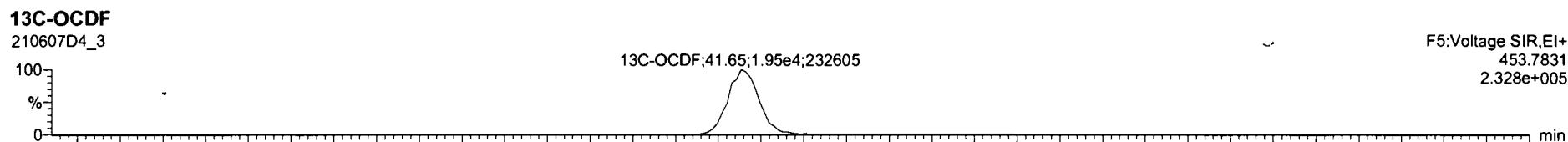
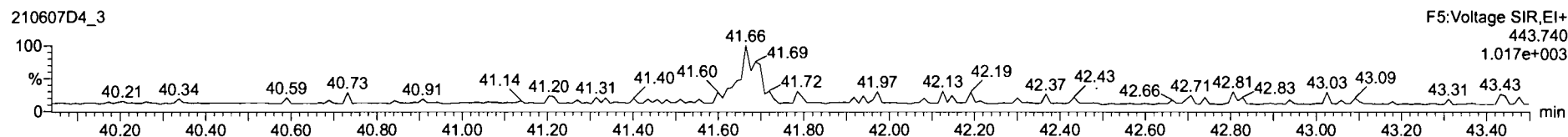
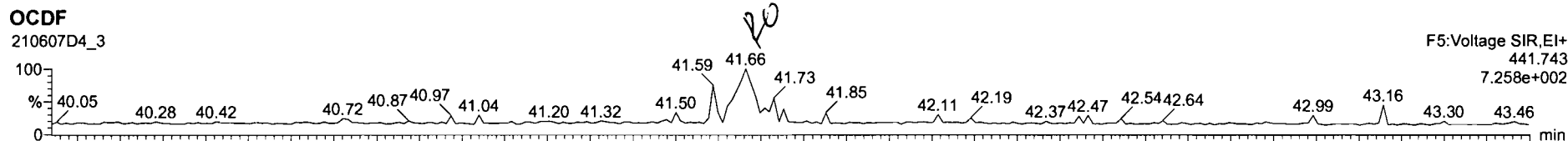
Name	RT	ref Resp	n2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.09	8.983e1	1.044e2	0.86	YES	1.2943	0.00000
2 Total Hepta-Furans	37.81	8.857e1	8.846e1	0.98	NO	1.3580	1.3580



Dataset: U:\VG7.PRO\Results\210607D4\210607D4-3.qld

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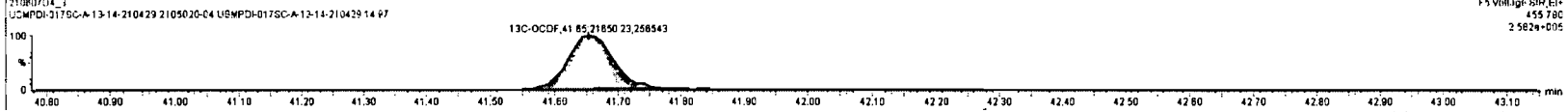
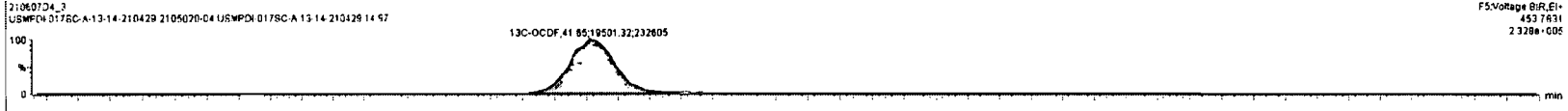
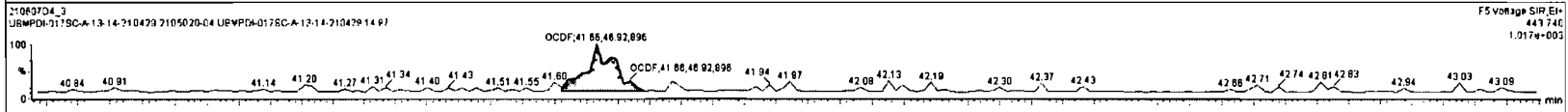
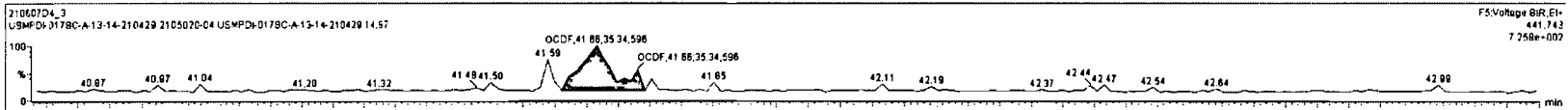
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210607D4_3 - 2105020-04 USMPD4-0178C-A-13-14-210429-14-97 - USMPD4-0178C-A-13-14-210429

Name	Resp	RA	rv	RR	WAVG	RT	RRT	Conc	%Rec	DL	EMPC
17 OCF	8.22e4	0.78	YES	0.91	10.053	41.88	1.000	0.875		0.325	0.798
18 13C-2,3,7,8-TCDD	5.12e4	0.75	NO	1.15	10.053	26.97	1.025	187	94.0	0.794	
19 13C-1,2,3,7,8-PeCDD	3.80e4	0.82	NO	-0.89	10.053	31.19	1.185	170	85.4	0.786	
20 13C-1,2,3,4,7,8-HxCDD	2.44e4	1.29	NO	0.65	10.053	34.64	1.014	188	93.3	1.00	
21 13C-1,2,3,6,7,8-HxCDD	2.82e4	1.23	NO	0.72	10.053	34.75	1.017	193	97.0	0.900	
22 13C-1,2,3,7,8,9-HxCDD	2.85e4	1.25	NO	0.71	10.053	35.08	1.027	182	91.4	0.903	
23 13C-1,2,3,4,6,7,8-HpCDD	2.08e4	1.05	NO	0.58	10.053	38.18	1.118	175	87.9	2.87	
24 13C-OCDD	3.28e4	0.91	NO	0.45	10.053	41.35	1.210	357	99.8	1.51	

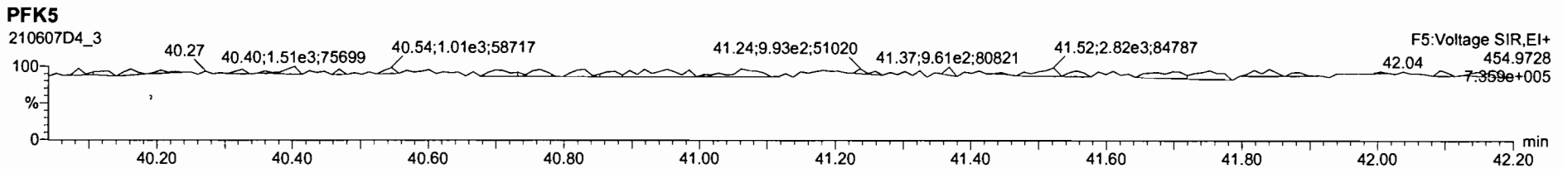
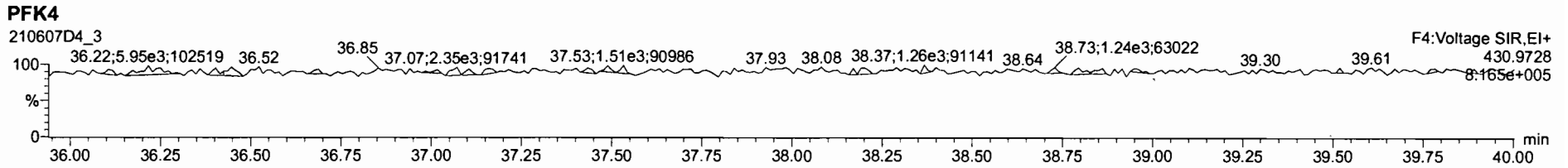
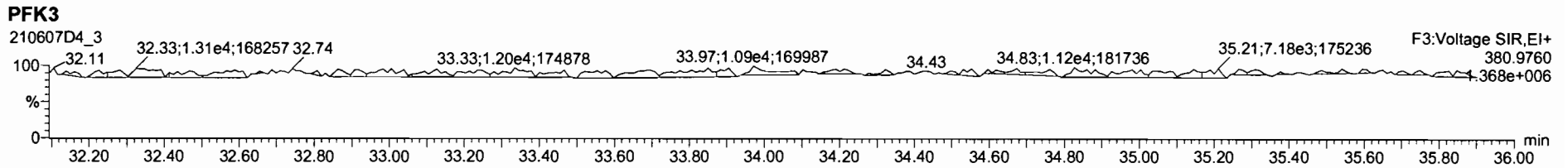
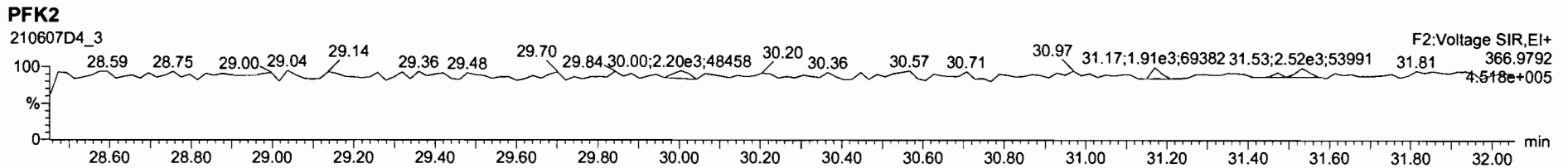
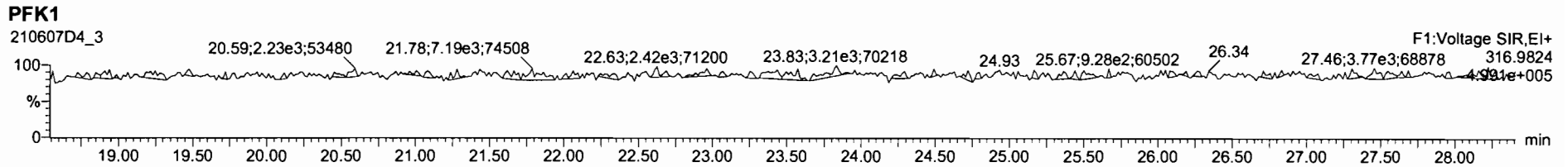
Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc.
1							



Dataset: U:\VG7.PRO\Results\210607D4\210607D4-3.qld

Last Altered: Tuesday, June 08, 2021 06:49:48 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:40:01 Pacific Daylight Time

Name: 210607D4_3, Date: 07-Jun-2021, Time: 17:32:08, ID: 2105020-04 USMPDI-017SC-A-13-14-210429 14.97, Description: USMPDI-017SC-A-13-14-210429



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

Last Altered: Wednesday, June 09, 2021 15:05:38 Pacific Daylight Time
Printed: Wednesday, June 09, 2021 15:06:38 Pacific Daylight Time

HL 6-9-2021 *CT 06/10/2021*

Method: Untitled 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	1.05	10.041					0.0505	
2	1,2,3,7,8-PeCDD			NO	0.881	10.041					0.101	
3	1,2,3,4,7,8-HxCDD			NO	1.14	10.041					0.196	
4	1,2,3,6,7,8-HxCDD			NO	1.01	10.041					0.210	
5	1,2,3,7,8,9-HxCDD			NO	1.02	10.041					0.225	
6	1,2,3,4,6,7,8-HpCDD	1.09e2	0.70	YES	1.07	10.041	38.39	1.001	0.22290		0.0884	0.181
7	OCDD	8.27e2	0.86	NO	1.00	10.041	41.82	1.001	2.4892		0.412	2.49
8	2,3,7,8-TCDF			NO	0.864	10.041					0.0351	
9	1,2,3,7,8-PeCDF			NO	0.948	10.041					0.0533	
10	2,3,4,7,8-PeCDF			NO	1.04	10.041					0.0434	
11	1,2,3,4,7,8-HxCDF			NO	1.04	10.041					0.0653	
12	1,2,3,6,7,8-HxCDF			NO	1.07	10.041					0.0607	
13	2,3,4,6,7,8-HxCDF			NO	1.12	10.041					0.0648	
14	1,2,3,7,8,9-HxCDF			NO	1.10	10.041					0.0866	
15	1,2,3,4,6,7,8-HpCDF	1.11e2	1.00	NO	1.16	10.041	37.12	1.001	0.16266		0.0274	0.163
16	1,2,3,4,7,8,9-HpCDF			NO	1.19	10.041					0.0944	
17	OCDF			NO	0.909	10.041					0.140	
18	13C-2,3,7,8-TCDD	1.71e5	0.78	NO	1.15	10.041	26.92	1.025	185.94	93.4	0.258	
19	13C-1,2,3,7,8-PeCDD	1.21e5	0.62	NO	0.887	10.041	31.09	1.184	169.52	85.1	0.205	
20	13C-1,2,3,4,7,8-HxCDD	9.31e4	1.28	NO	0.645	10.041	34.49	1.014	144.66	72.6	0.603	
21	13C-1,2,3,6,7,8-HxCDD	1.07e5	1.26	NO	0.717	10.041	34.63	1.018	149.42	75.0	0.543	
22	13C-1,2,3,7,8,9-HxCDD	1.03e5	1.23	NO	0.714	10.041	34.94	1.027	144.66	72.6	0.545	
23	13C-1,2,3,4,6,7,8-HpCDD	9.15e4	1.15	NO	0.583	10.041	38.35	1.127	157.25	79.0	0.658	
24	13C-OCDD	1.32e5	0.87	NO	0.451	10.041	41.80	1.229	293.30	73.6	0.593	
25	13C-2,3,7,8-TCDF	3.02e5	0.77	NO	1.09	10.041	26.34	1.003	182.99	91.9	0.224	
26	13C-1,2,3,7,8-PeCDF	2.04e5	1.59	NO	0.805	10.041	29.96	1.141	167.38	84.0	0.385	
27	13C-2,3,4,7,8-PeCDF	2.05e5	1.57	NO	0.792	10.041	30.91	1.177	171.51	86.1	0.391	
28	13C-1,2,3,4,7,8-HxCDF	1.66e5	0.50	NO	0.997	10.041	33.53	0.986	166.69	83.7	0.618	
29	13C-1,2,3,6,7,8-HxCDF	1.80e5	0.52	NO	1.03	10.041	33.67	0.990	175.59	88.2	0.599	
30	13C-2,3,4,6,7,8-HxCDF	1.60e5	0.51	NO	0.940	10.041	34.39	1.011	170.89	85.8	0.656	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

Last Altered: Wednesday, June 09, 2021 15:05:38 Pacific Daylight Time
 Printed: Wednesday, June 09, 2021 15:06:38 Pacific Daylight Time

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.38e5	0.51	NO	0.852	10.041	35.51	1.044	162.79	81.7	0.723	
32	13C-1,2,3,4,6,7,8-HpCDF	1.17e5	0.42	NO	0.727	10.041	37.09	1.090	161.42	81.0	0.604	
33	13C-1,2,3,4,7,8,9-HpCDF	1.02e5	0.41	NO	0.608	10.041	39.07	1.149	168.32	84.5	0.722	
34	13C-OCDF	1.99e5	0.86	NO	0.631	10.041	42.21	1.241	316.83	79.5	0.454	
35	37Cl-2,3,7,8-TCDD	1.52e5			2.22	10.041	26.94	1.026	84.843	106	0.0522	
36	13C-1,2,3,4-TCDD	1.60e5	0.80	NO	1.00	10.041	26.26	1.000	199.18	100	0.295	
37	13C-1,2,3,4-TCDF	3.01e5	0.79	NO	1.00	10.041	25.03	1.000	199.18	100	0.244	
38	13C-1,2,3,4,6,9-HxCDF	1.99e5	0.51	NO	1.00	10.041	34.01	1.000	199.18	100	0.616	
39	Total Tetra-Dioxins				1.05	10.041					0.0280	
40	Total Penta-Dioxins				0.881	10.041					0.0447	
41	Total Hexa-Dioxins				1.01	10.041					0.0936	
42	Total Hepta-Dioxins				1.07	10.041			0.00000		0.0884	0.450
43	Total Tetra-Furans				0.864	10.041					0.0152	
44	1st Func. Penta-Furans				0.948	10.041					0.0119	
45	Total Penta-Furans				0.948	10.041					0.0141	
46	Total Hexa-Furans				1.12	10.041			0.058632		0.0336	0.169
47	Total Hepta-Furans				1.16	10.041			0.16266		0.0322	0.163

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld
 Last Altered: Wednesday, June 09, 2021 15:05:38 Pacific Daylight Time
 Printed: Wednesday, June 09, 2021 15:06:38 Pacific Daylight Time

Method: Untitled 19 May 2021 12:17:04
 Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429,
 Task: ST210524D2-1

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL	
1	Total Hepta-Dioxins	37.44	1.367e3	1.460e3	6.717e1	7.912e1	0.85	YES	0.000e0	0.00000	0.26929	0.0884
2	1,2,3,4,6,7,8-HpCDD	38.39	8.570e2	1.363e3	4.508e1	6.398e1	0.70	YES	1.091e2	0.00000	0.18074	0.0884

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

Last Altered: Wednesday, June 09, 2021 15:05:38 Pacific Daylight Time
 Printed: Wednesday, June 09, 2021 15:06:38 Pacific Daylight Time

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429, Task: ST210524D2-1

Penta-Furans

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

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Furans	32.20	5.780e2	4.330e2	1.950e1	9.332e0	2.09	YES	0.000e0	0.00000	0.023124	0.0336
2 Total Hexa-Furans	32.39	9.280e2	8.140e2	3.101e1	2.200e1	1.41	NO	5.300e1	0.058632	0.058632	0.0336
3 Total Hexa-Furans	33.04	5.200e2	9.890e2	3.094e1	3.980e1	0.78	YES	0.000e0	0.00000	0.061822	0.0336
4 Total Hexa-Furans	35.55	4.260e2	6.800e2	1.270e1	1.445e1	0.88	YES	0.000e0	0.00000	0.025376	0.0336

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1,2,3,4,6,7,8-HpCDF	37.12	1.156e3	1.103e3	5.546e1	5.544e1	1.00	NO	1.109e2	0.16266	0.16266	0.0274

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

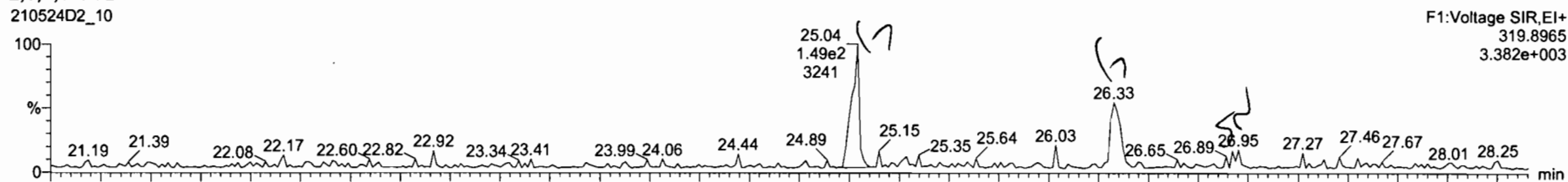
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Printed: Wednesday, May 26, 2021 12:11:32 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

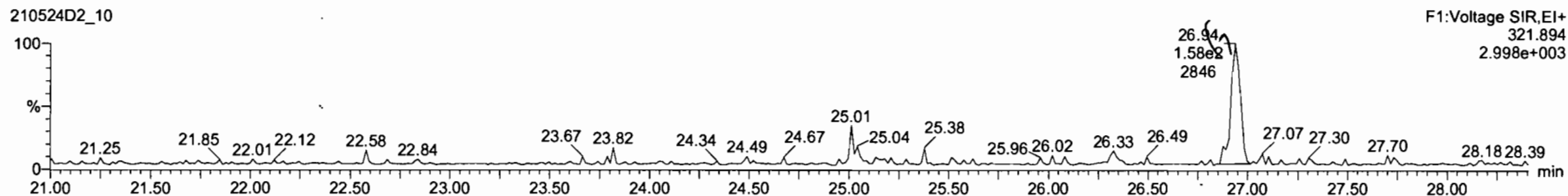
Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

2,3,7,8-TCDD

210524D2_10

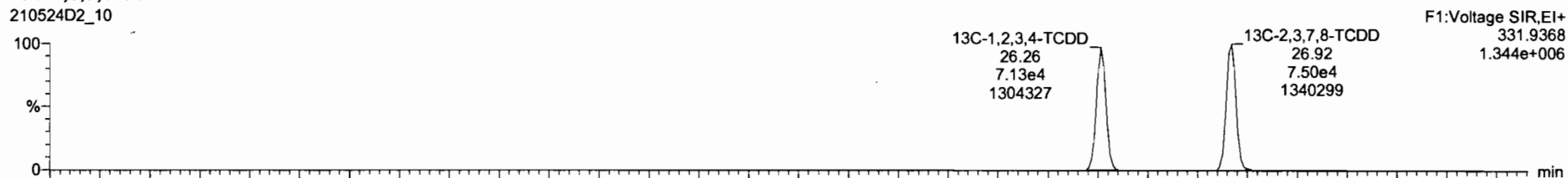


210524D2_10

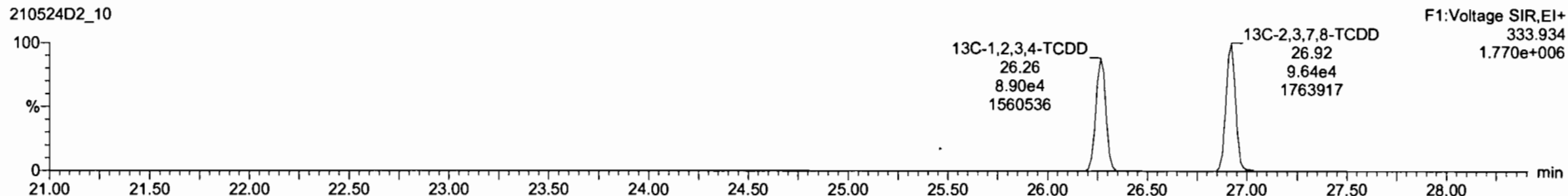


13C-2,3,7,8-TCDD

210524D2_10



210524D2_10



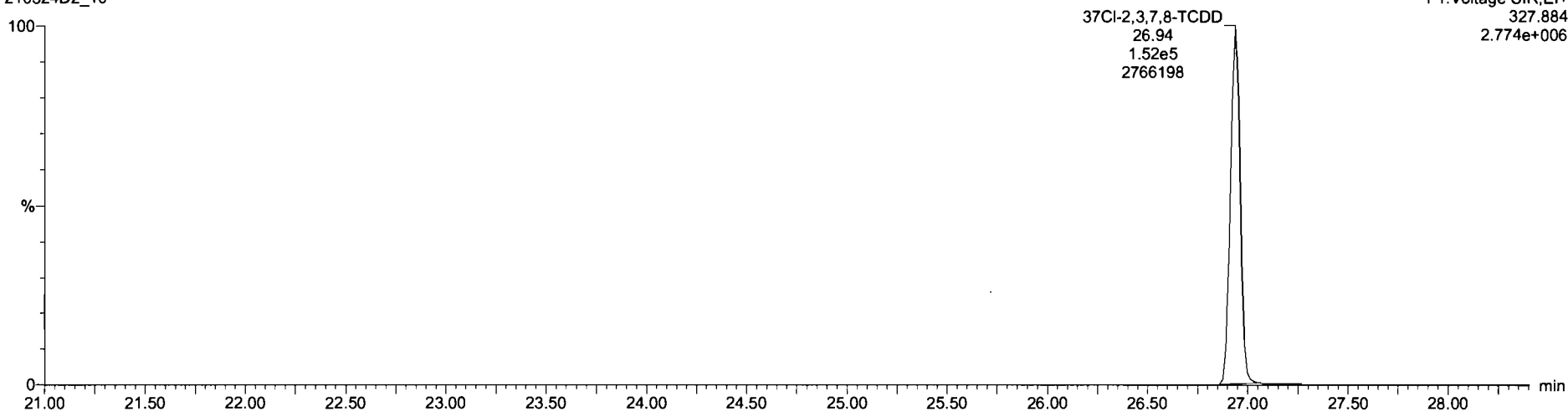
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Last Altered: Wednesday, May 26, 2021 12:11:08 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:11:32 Pacific Daylight Time

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

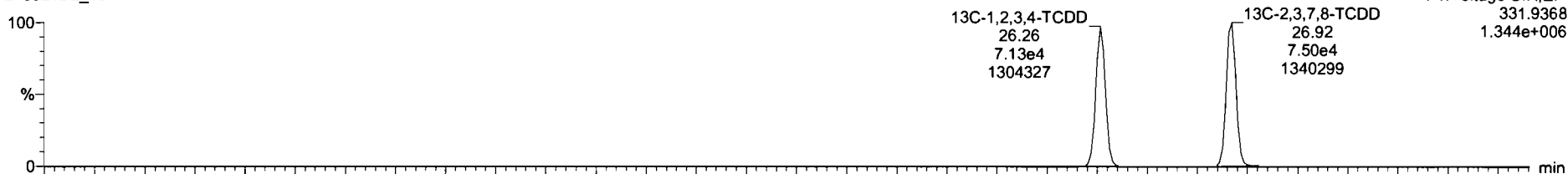
37Cl-2,3,7,8-TCDD

210524D2_10

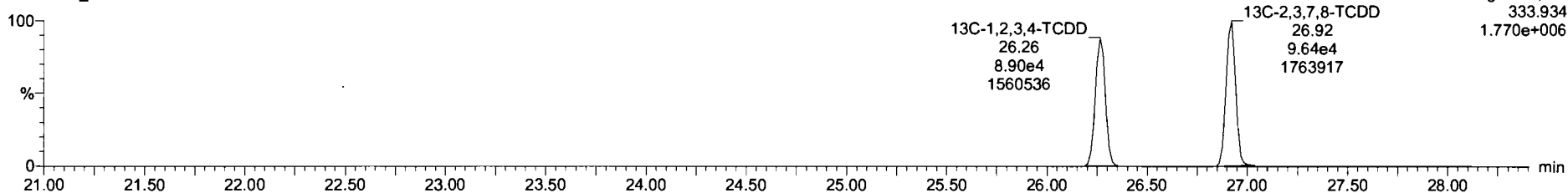


13C-1,2,3,4-TCDD

210524D2_10



210524D2_10

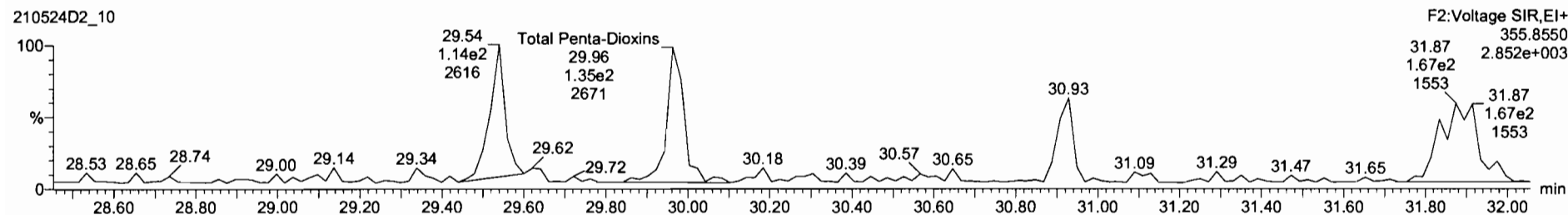
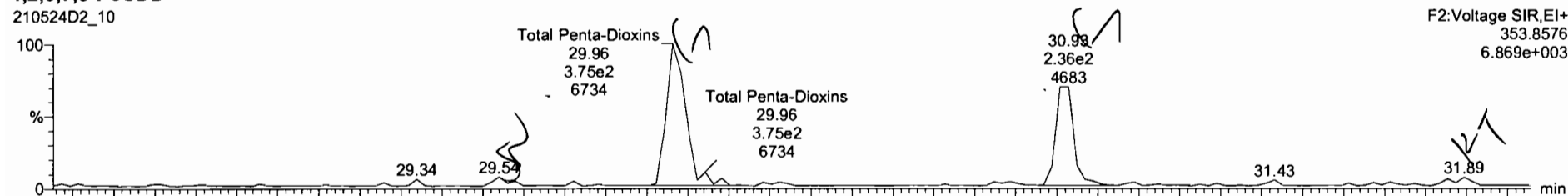


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

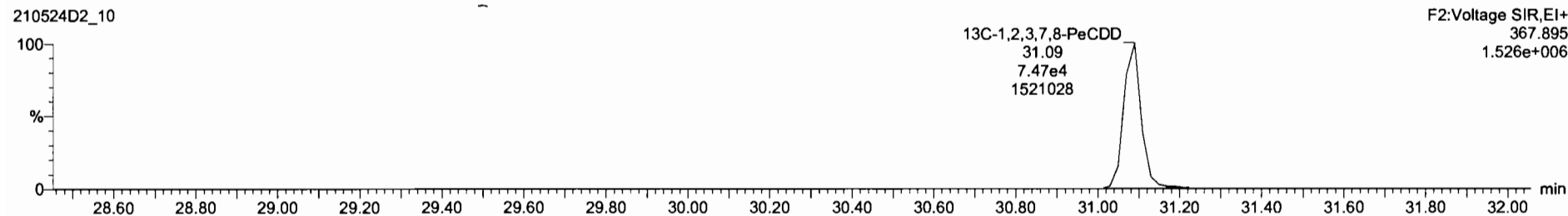
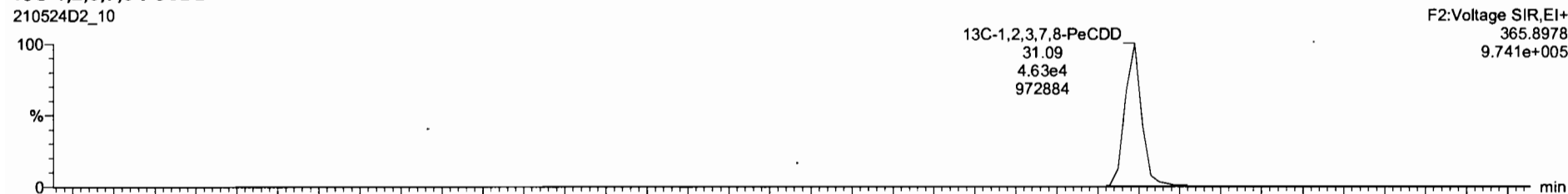
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Printed: Wednesday, May 26, 2021 12:11:32 Pacific Daylight Time

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

1,2,3,7,8-PeCDD



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



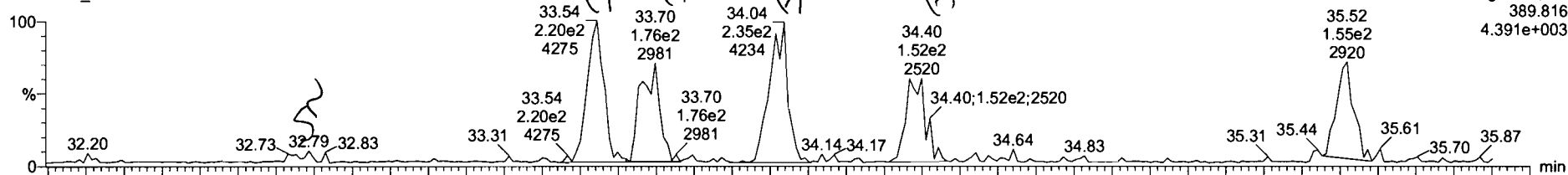
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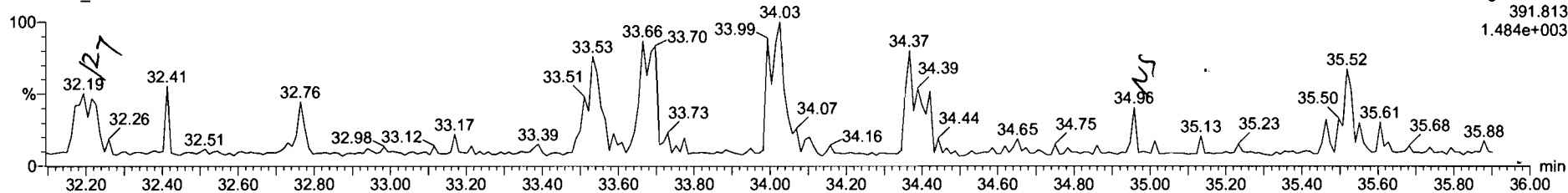
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1,2,3,4,7,8-HxCDD

210524D2_10

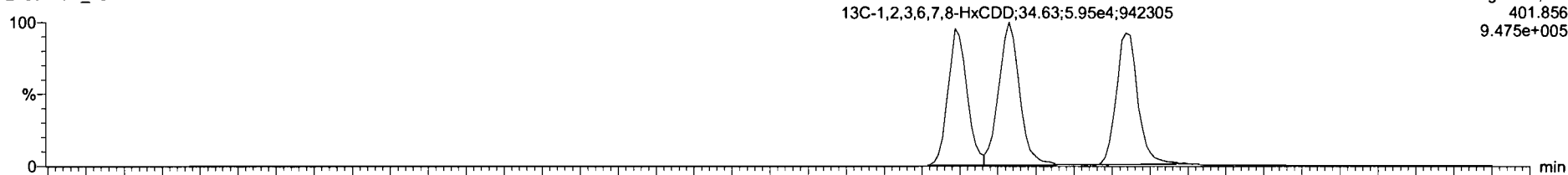


210524D2_10

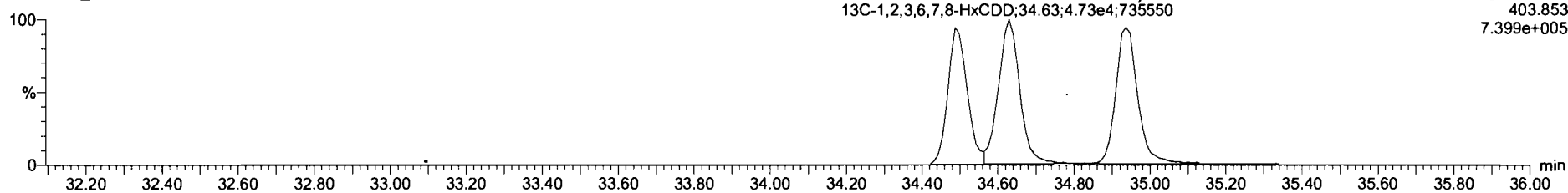


13C-1,2,3,4,7,8-HxCDD

210524D2_10



210524D2_10



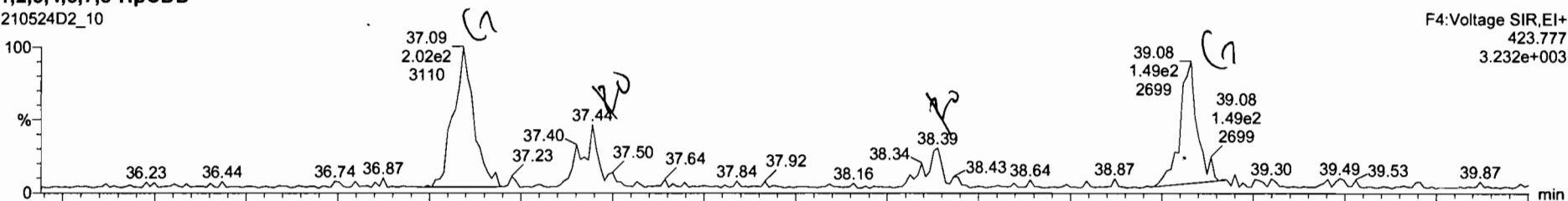
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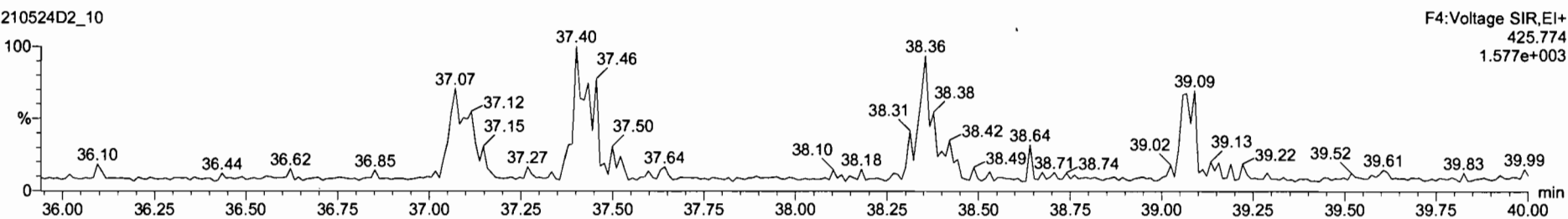
Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

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

210524D2_10

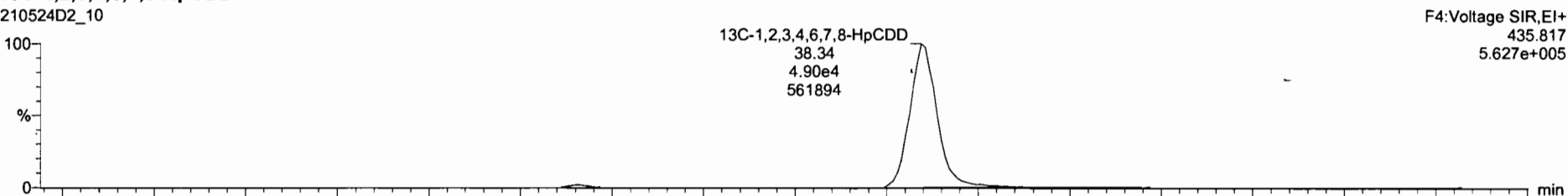


210524D2_10

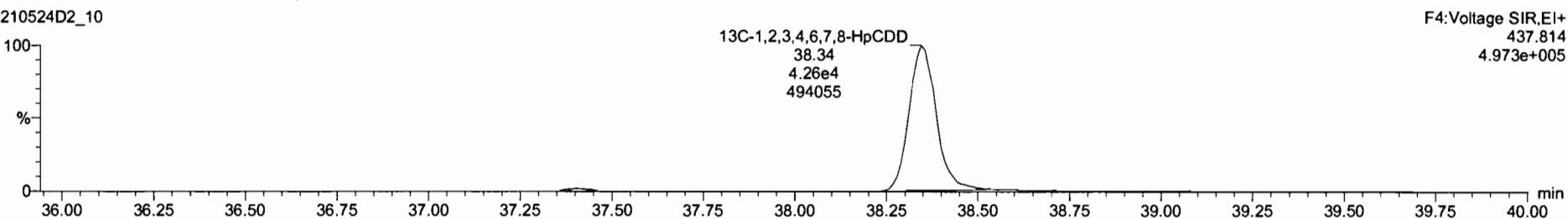


13C-1,2,3,4,6,7,8-HpCDD

210524D2_10



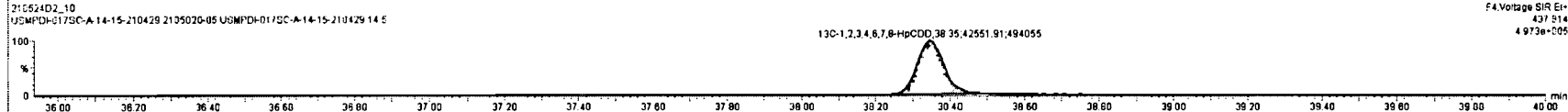
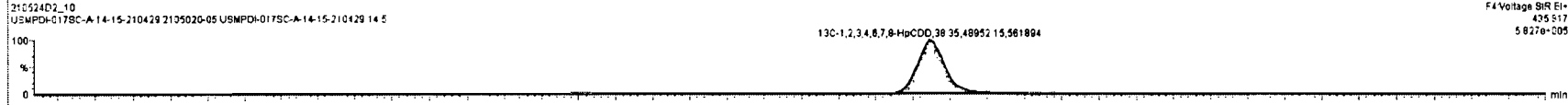
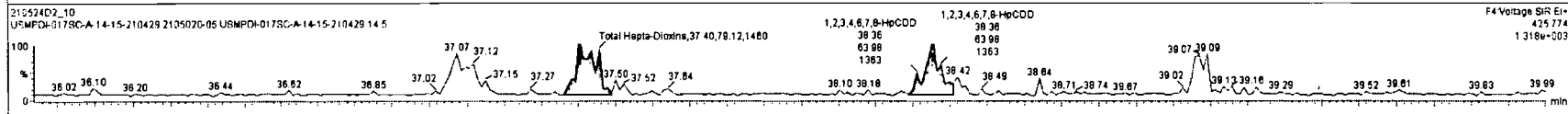
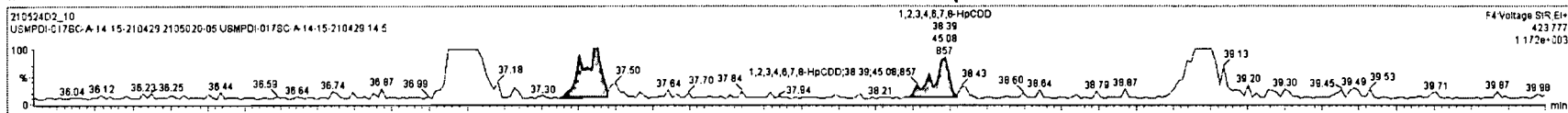
210524D2_10



210524D2_10 - 21050205 USMPDI-017SC-A-14-15-210429 14.5 - USMPDI-017SC-A-14-15-210429

Name	Resp	RA	n/y	R/R	wtAvcl	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.041			0.000		0.0804	0.430
43 Total Tetra-Furans				0.86	10.041					0.0152	
44 1st Func. Penta-Furans				0.95	10.041					0.0118	
45 Total Penta-Furans				0.95	10.041					0.0141	
46 Total Hexa-Furans				1.12	10.041					0.0336	
47 Total Hepta-Furans				1.16	10.041					0.0322	
48 PFK1											
49 PFK2											

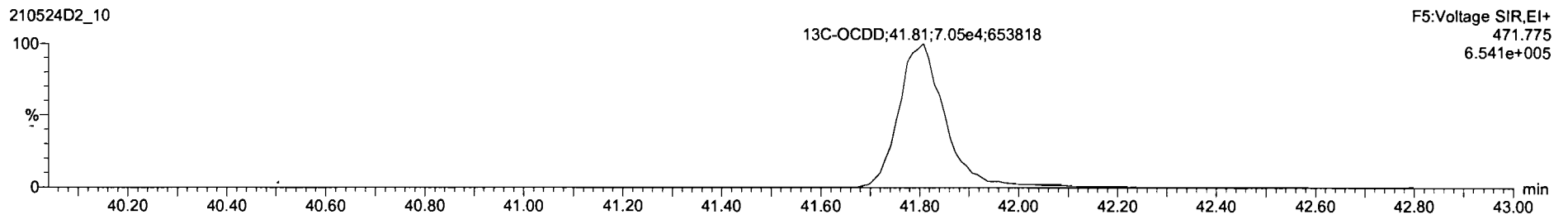
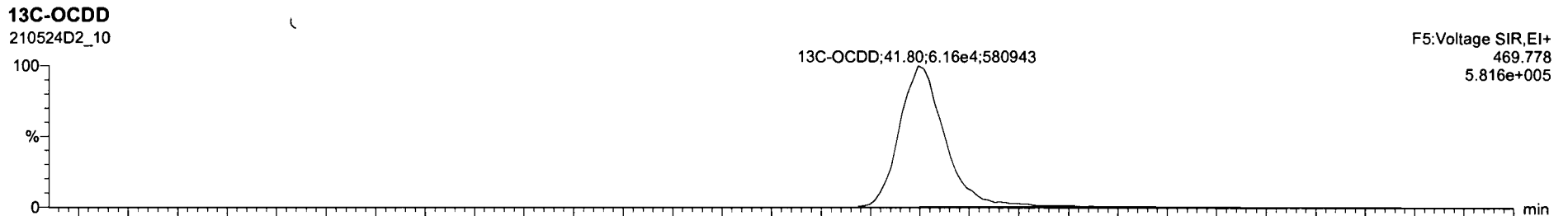
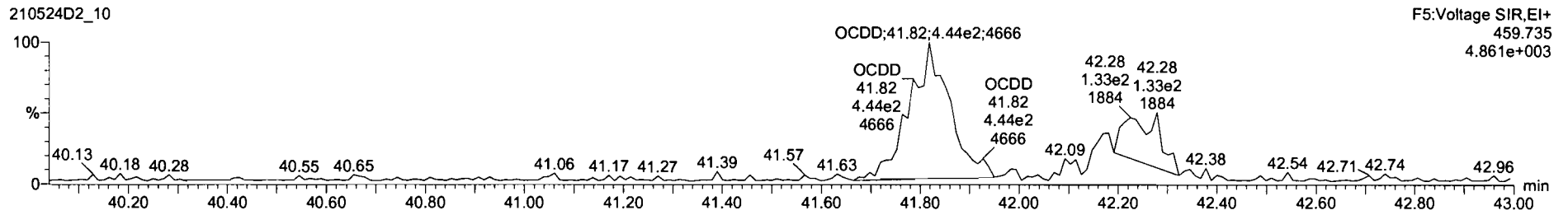
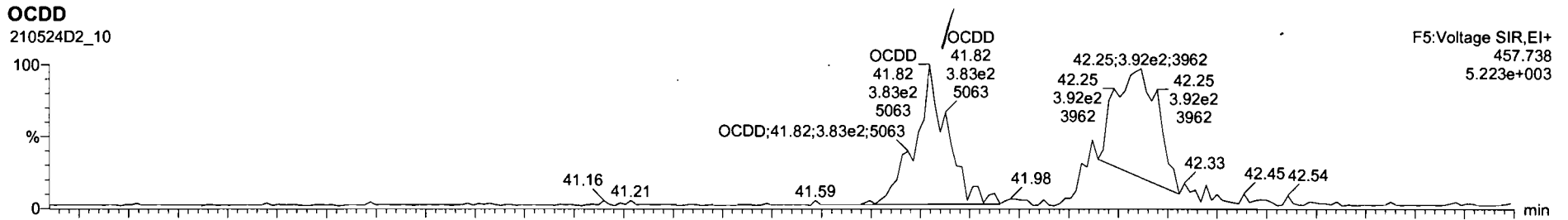
Name	RT	wt Resp	mQ Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.44	6.717e1	7.912e1	0.85	YES	0.26929	0.00000
2 1,2,3,4,6,7,8-HpCDD	38.39	4.506e1	6.306e1	0.70	YES	0.18074	0.00000



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

Last Altered: Wednesday, May 26, 2021 12:11:08 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:11:32 Pacific Daylight Time

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

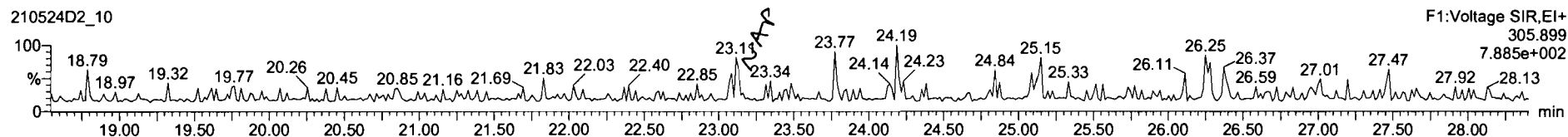
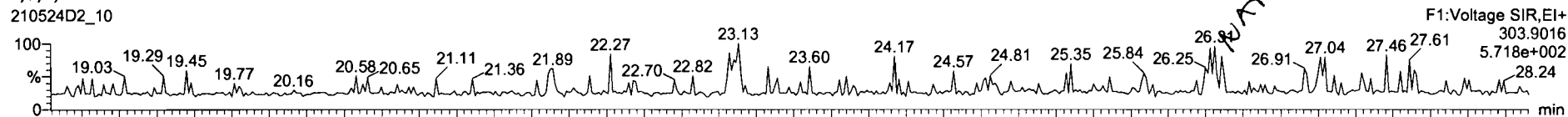


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

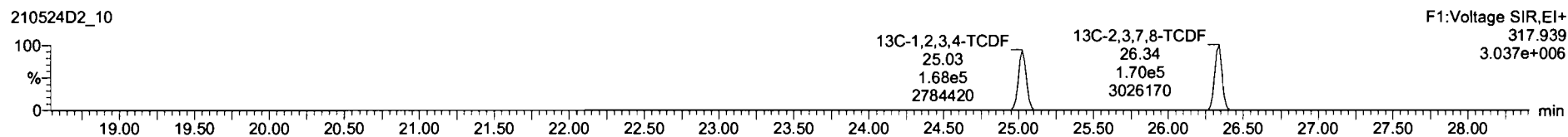
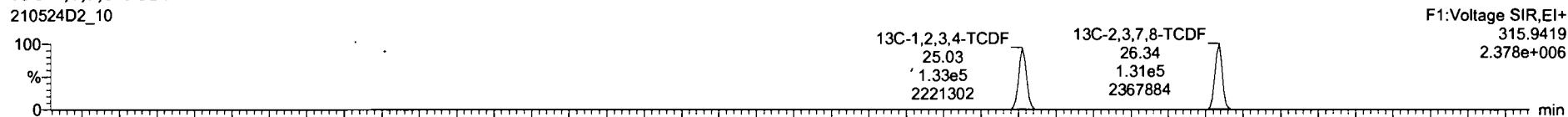
Last Altered: Wednesday, May 26, 2021 12:11:08 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:11:32 Pacific Daylight Time

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

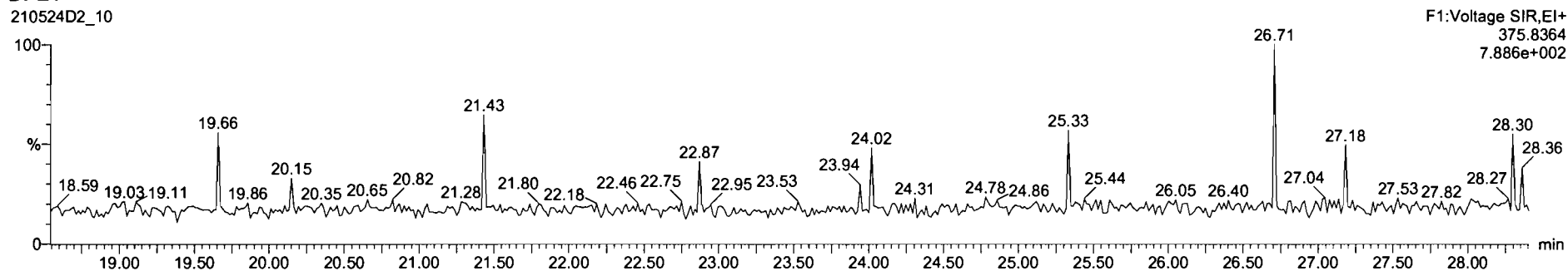
2,3,7,8-TCDF



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



DPE1



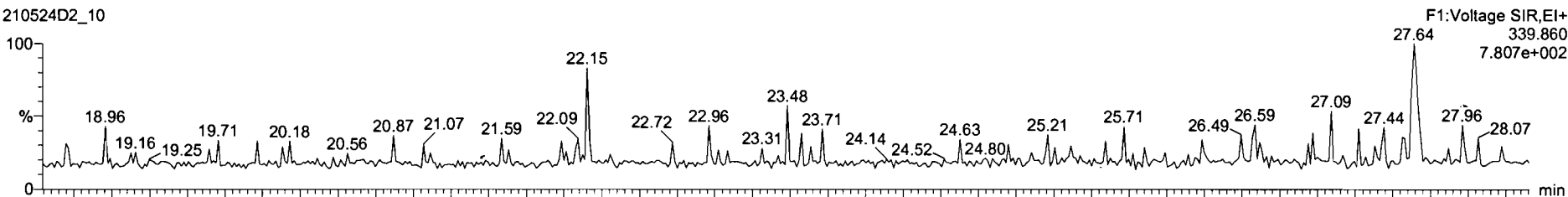
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Last Altered: Wednesday, May 26, 2021 12:11:08 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:11:32 Pacific Daylight Time

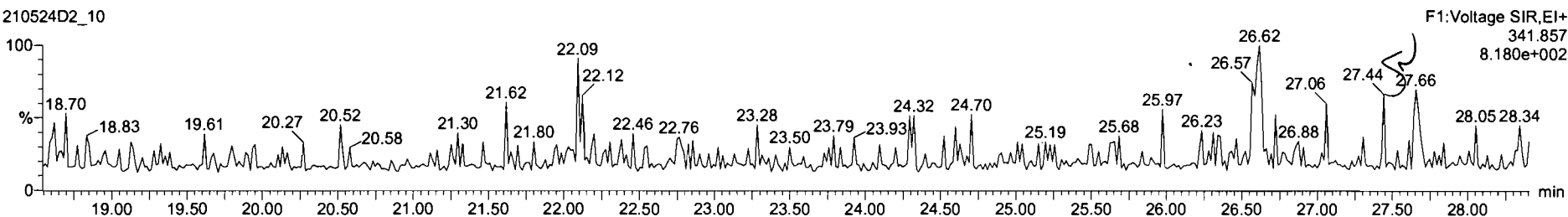
Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

1st Func. Penta-Furans

210524D2_10

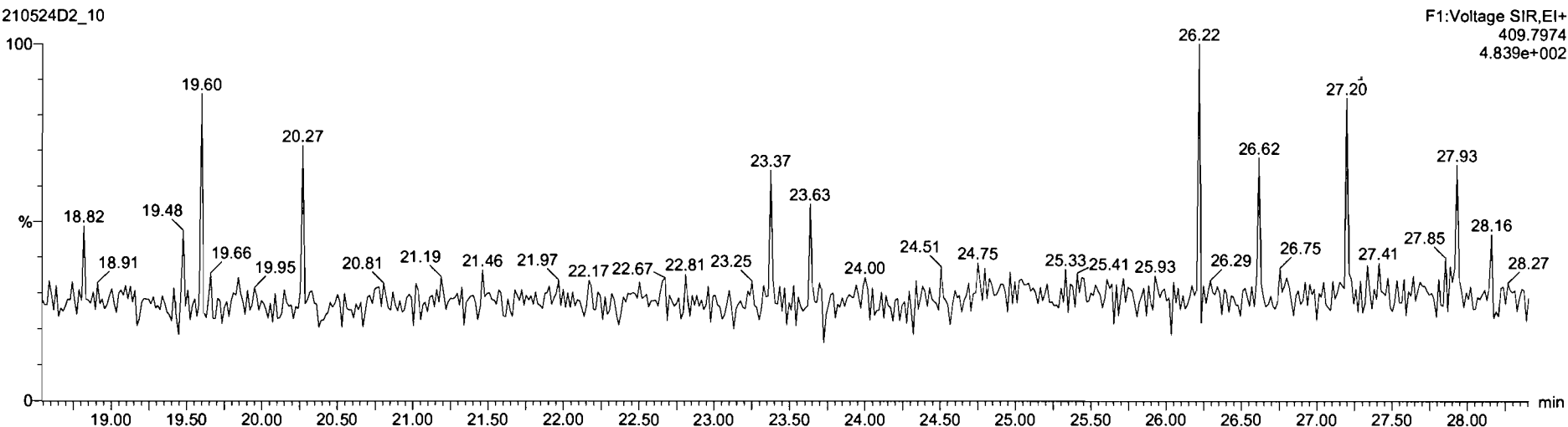


210524D2_10



DPE6

210524D2_10

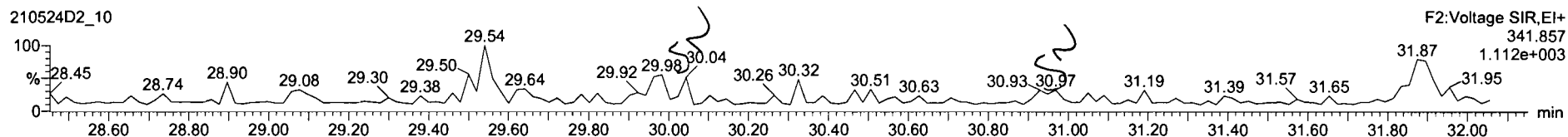
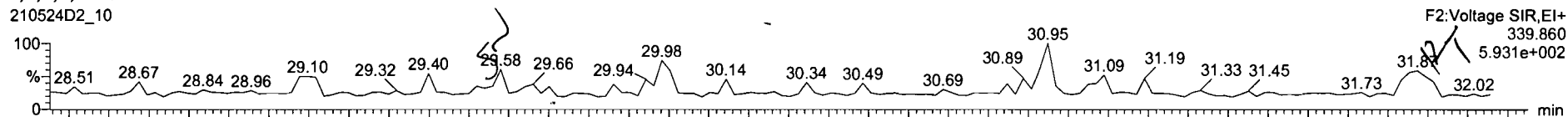


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

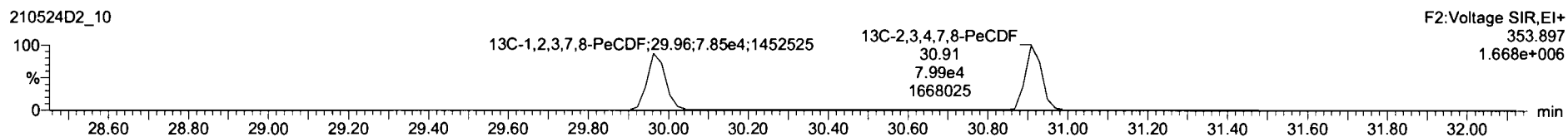
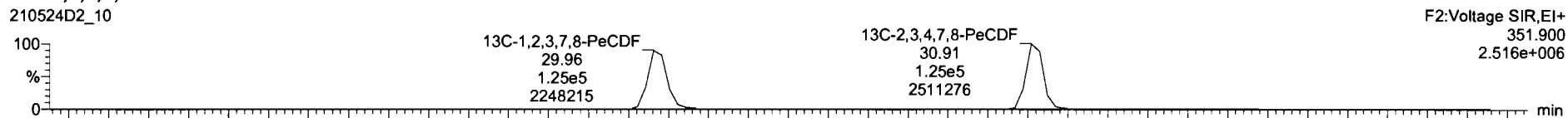
Last Altered: Wednesday, May 26, 2021 12:11:08 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:11:32 Pacific Daylight Time

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

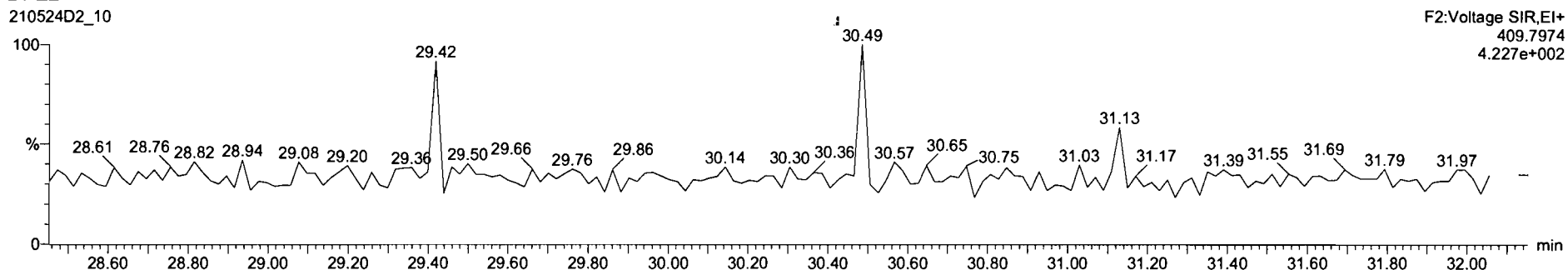
1,2,3,7,8-PeCDF



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



DPE2

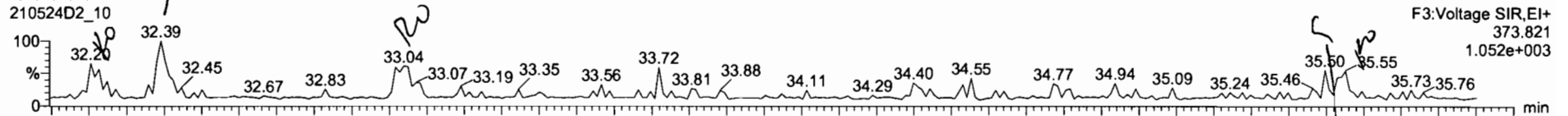


Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

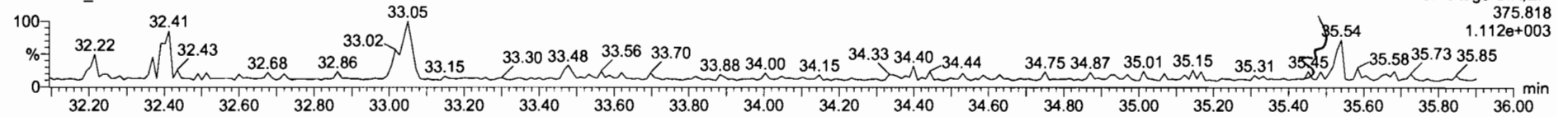
Last Altered: Wednesday, May 26, 2021 12:11:08 Pacific Daylight Time
Printed: Wednesday, May 26, 2021, 12:11:32 Pacific Daylight Time

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-Å-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

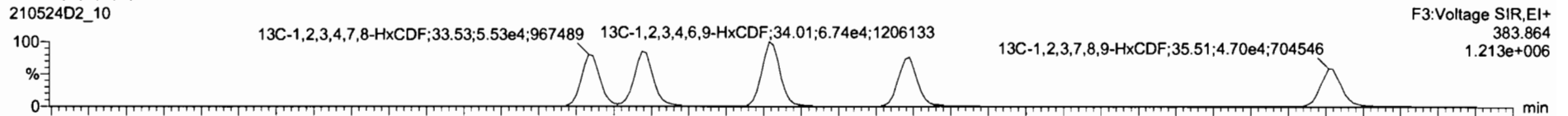
1,2,3,4,7,8-HxCDF



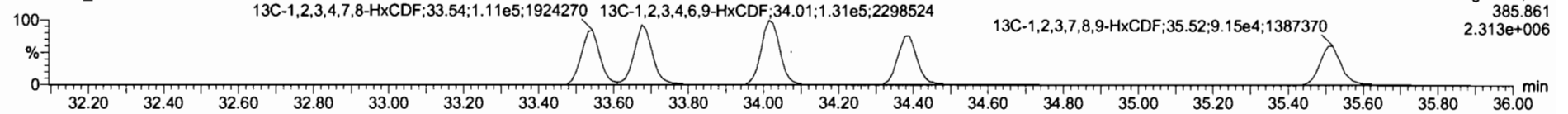
210524D2_10



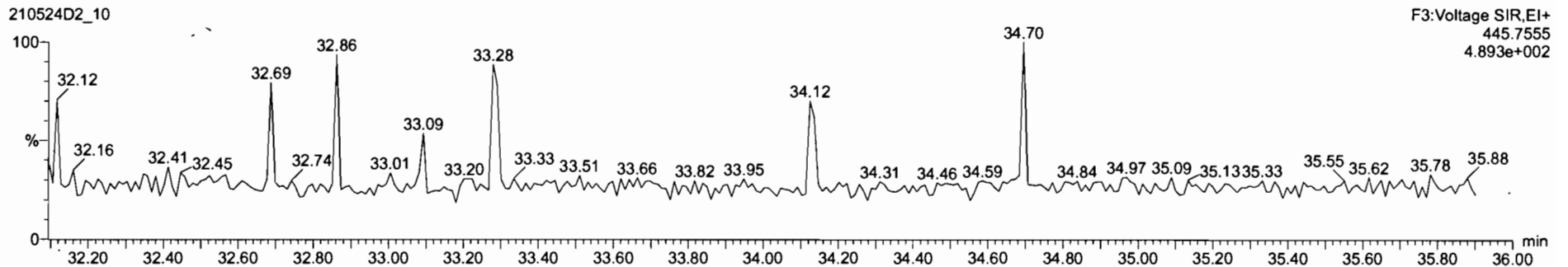
13C-1,2,3,4,7,8-HxCDF



210524D2_10



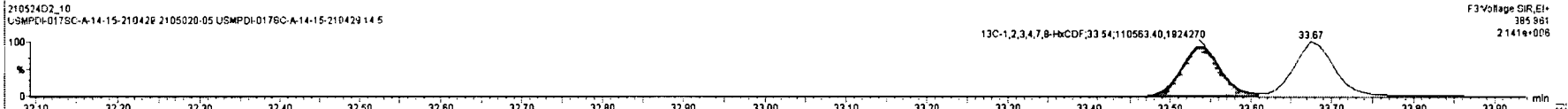
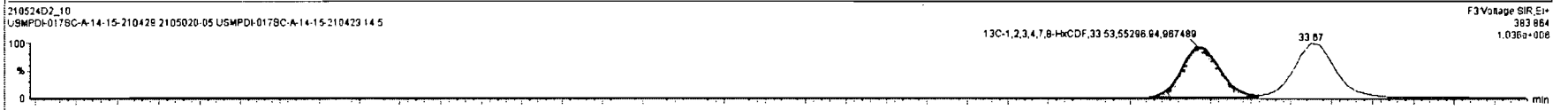
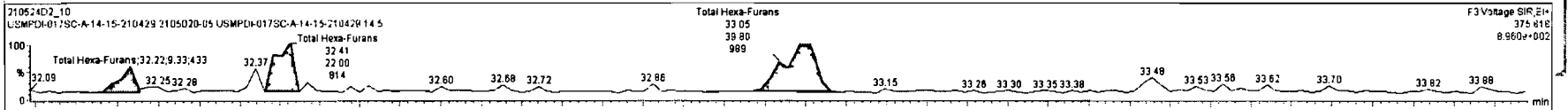
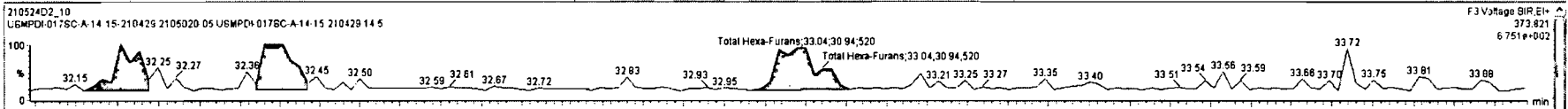
DPE3



210524D2_10 - 2105020-05 USMPDI-0175C-A-14-15-210429 14 5 - USMPDI-0175C-A-14-15-210429

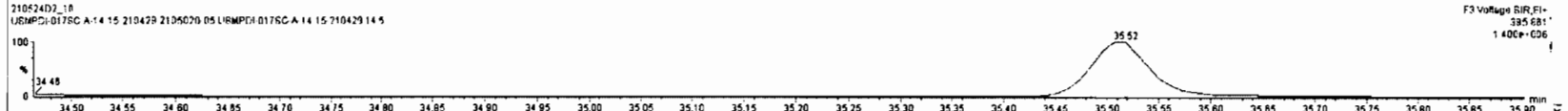
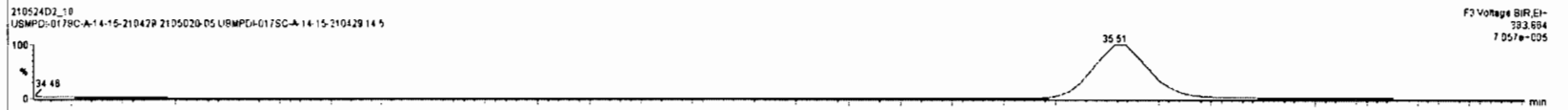
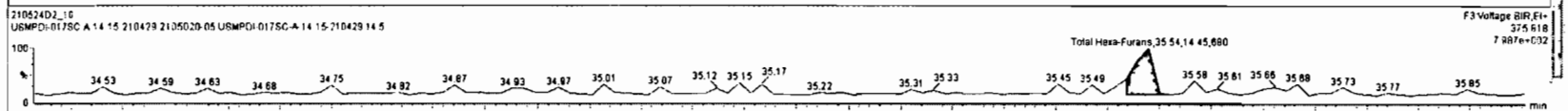
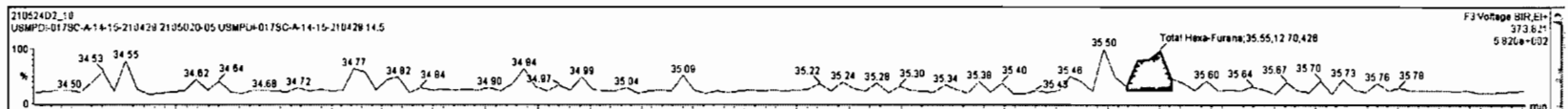
Name	Resp	RA	n/y	R/R	w/wd	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.041			0.000		0.0984	0.450
43 Total Tetra-Furans				0.86	10.041					0.0152	
44 1st Func. Penta-Furans				0.95	10.041					0.0119	
45 Total Penta-Furans				0.95	10.041					0.0141	
46 Total Hexa-Furans				1.12	10.041			0.0586		0.0336	0.144
47 Total Hepta-Furans				1.16	10.041					0.0322	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.20	1.950e1	9.332e0	2.09	YES	0.023124	0.00000
2 Total Hexa-Furans	32.39	3.101e1	2.200e1	1.41	NO	0.058632	0.058632
3 Total Hexa-Furans	33.04	3.094e1	3.980e1	0.78	YES	0.061822	0.00000



Name	Resp	RA	rv	RF	Wdwt	RT	RRT	Conc	%Rec	CL	EMPC
44 1st Func. Perflu-Furans				0.95	10.041					0.0119	
45 Total Perflu-Furans				0.95	10.041					0.0141	
46 Total Hexa-Furans				1.12	10.041			0.0596		0.0338	0.188
47 Total Hepta-Furans				1.18	10.041					0.0322	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	wt Resp	m2 Resp	RA	rv	EMPC	Conc.
1 Total Hexa-Furans	32.20	1.950e1	9.337e0	2.00	YES	0.022124	0.00000
2 Total Hexa-Furans	32.38	3.101e1	2.200e1	1.41	NO	0.028832	0.00632
3 Total Hexa-Furans	33.04	3.094e1	3.980e1	0.78	YES	0.081822	0.00000
4 Total Hexa-Furans	35.55	1.270e1	1.445e1	0.88	YES	0.025378	0.00000



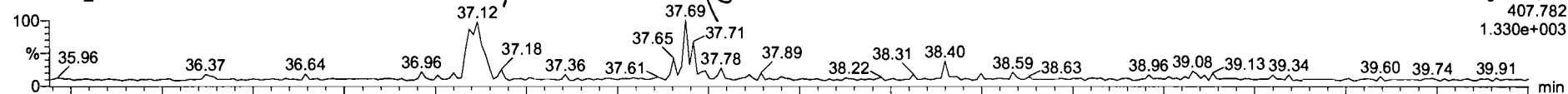
Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

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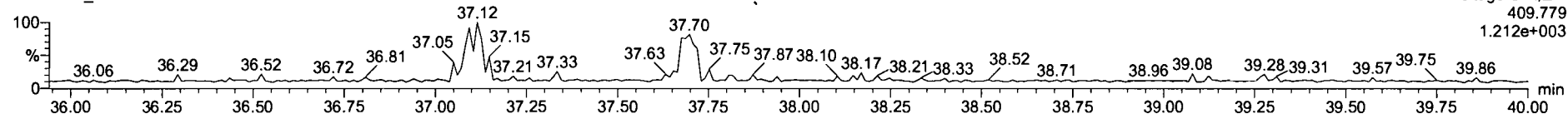
Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429

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

210524D2_10

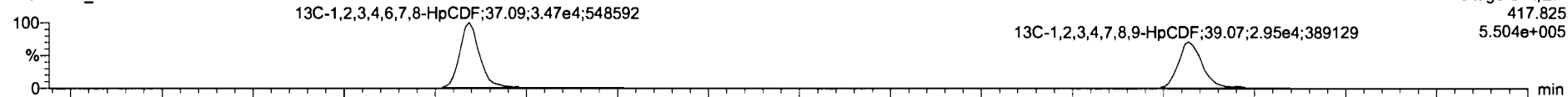


210524D2_10

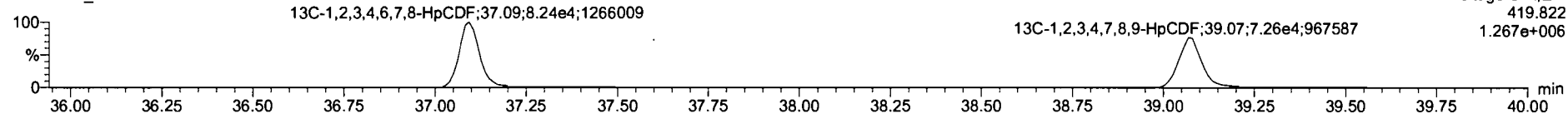


13C-1,2,3,4,6,7,8-HpCDF

210524D2_10

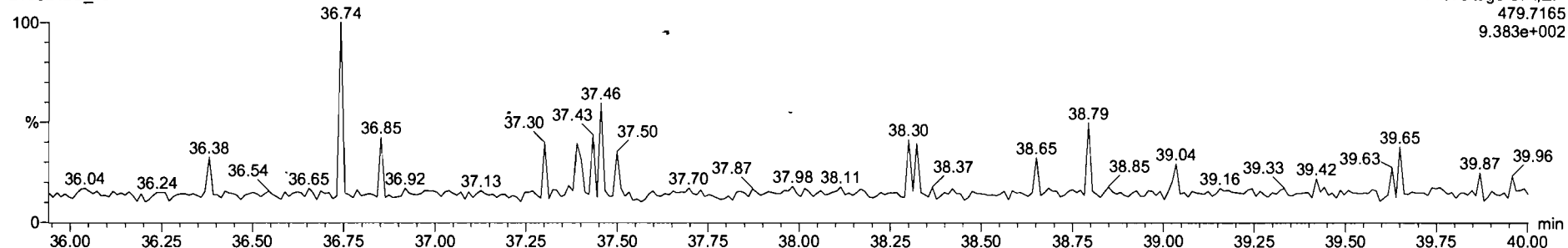


210524D2_10



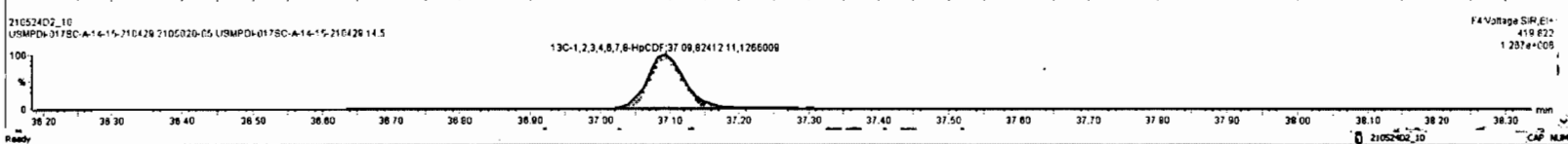
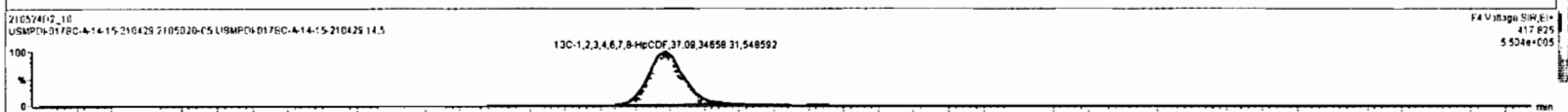
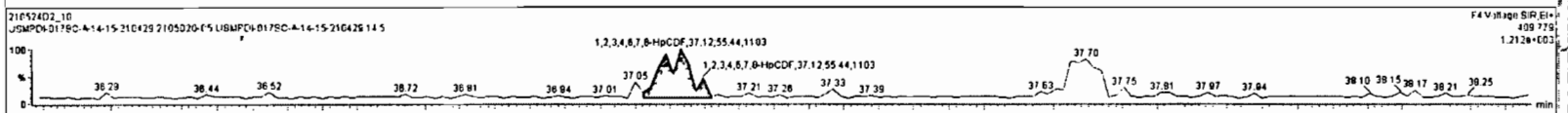
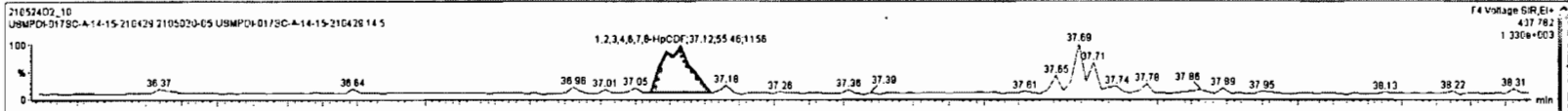
DPE4

210524D2_10



Name	Resp	RA	rv	RF	rt	RT	RR	Conc.	%Rec	DJ	EMPC
44 Total Hexa-Furans				0.85	10.041				0.0119		
45 Total Hexa-Furans				0.85	10.041				0.0741		
46 Total Hexa-Furans				1.12	10.041			0.0598	0.0336	0.190	
47 Total Hexa-Furans				1.18	10.041			0.183	0.0222	0.183	
48 PPK1											
49 PPK2											
50 PPK3											
51 PPK4											

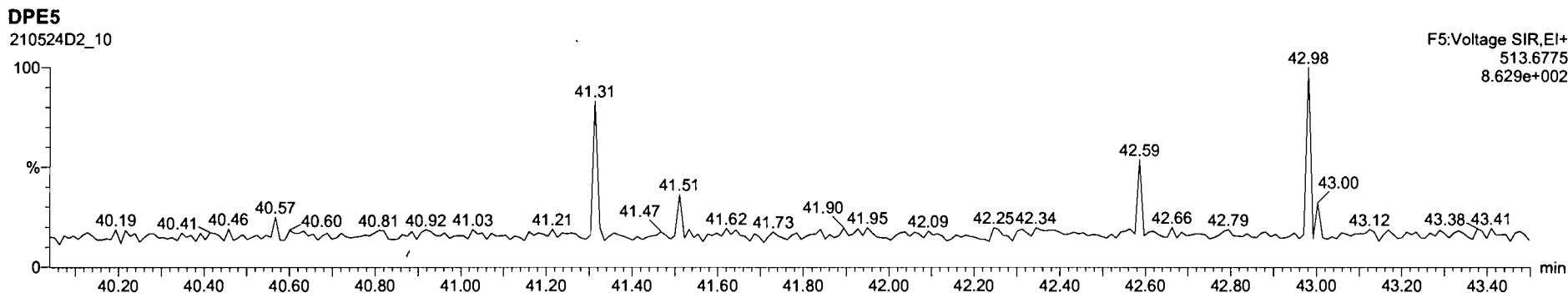
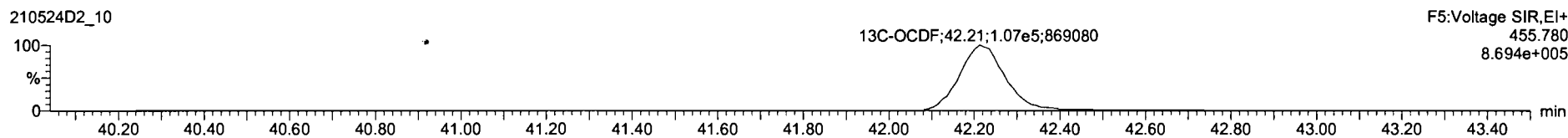
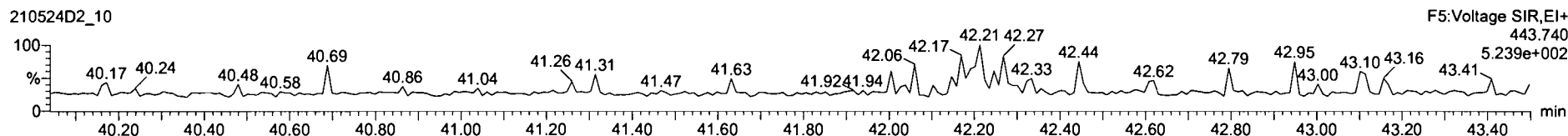
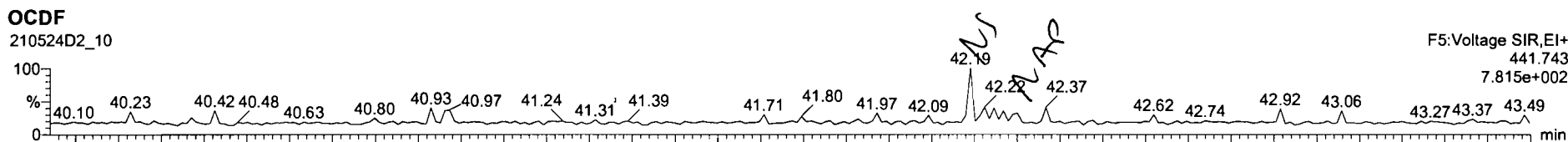
Name	RT	rt Resp	rt Resp	RA	rv	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	37.12	5.546e1	5.544e1	1.00	ND	0.18266	0.18266



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

Last Altered: Wednesday, May 26, 2021 12:11:08 Pacific Daylight Time
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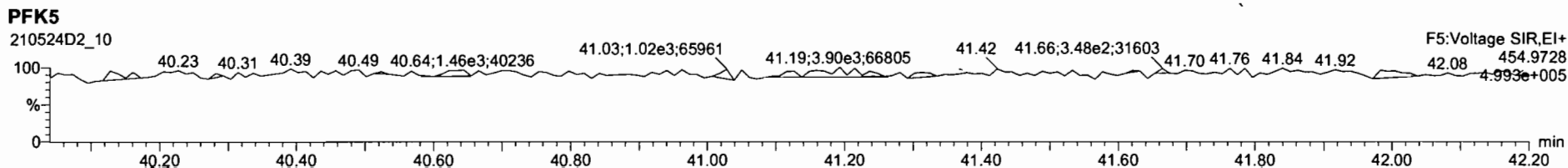
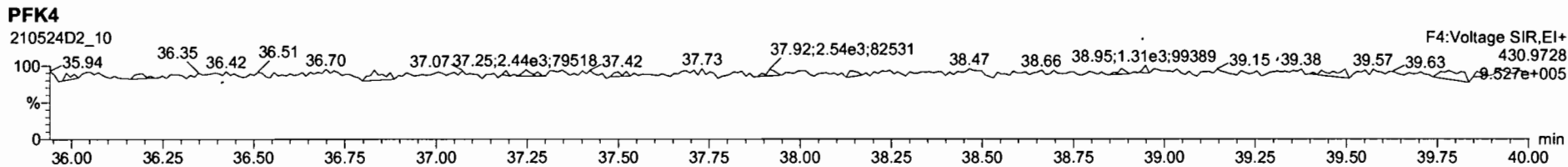
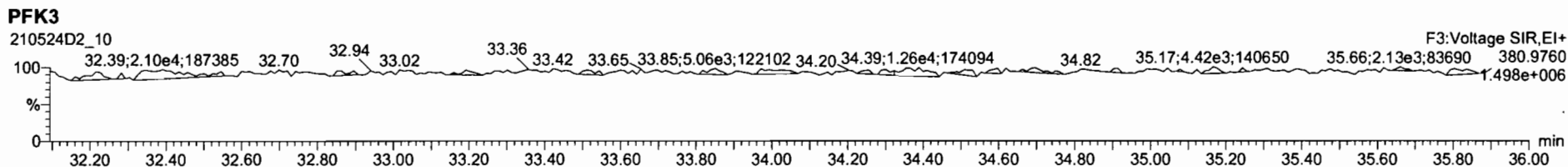
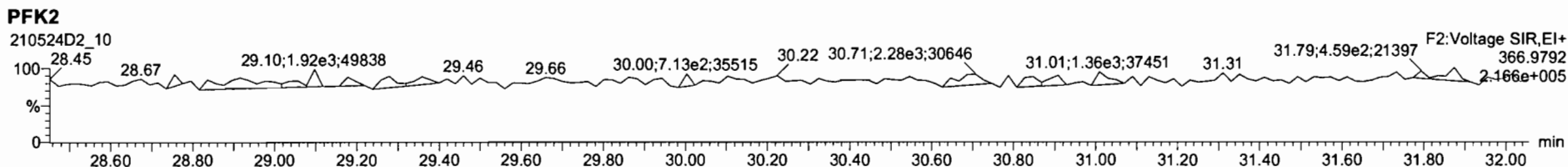
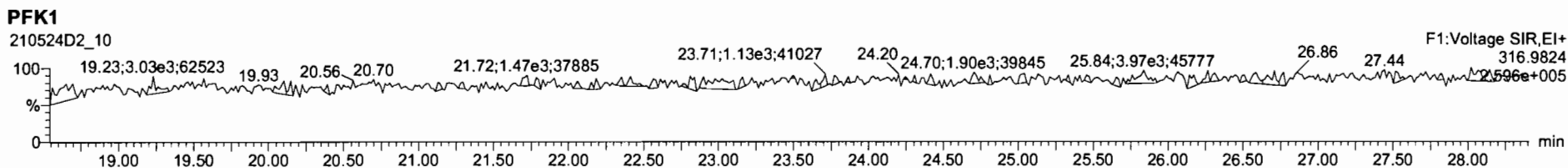
Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-10.qld

Last Altered: Wednesday, May 26, 2021 12:11:08 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:11:32 Pacific Daylight Time

Name: 210524D2_10, Date: 25-May-2021, Time: 02:09:58, ID: 2105020-05 USMPDI-017SC-A-14-15-210429 14.5, Description: USMPDI-017SC-A-14-15-210429



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-11.qld

Last Altered: Wednesday, June 09, 2021 15:19:50 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 15:20:17 Pacific Daylight Time

HC 6/9/2021 *C106/10/2021*

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_11, Date: 25-May-2021, Time: 02:56:43, ID: 2105020-06 USMPDI-017SC-A-15-16-210429 16.01, Description: USMPDI-017SC-A-15-16-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	1.05	10.095					0.0914	
2	1,2,3,7,8-PeCDD	5.50e1	0.45	YES	0.881	10.095	31.09	1.000	0.13862		0.0682	0.111
3	1,2,3,4,7,8-HxCDD			NO	1.14	10.095					0.204	
4	1,2,3,6,7,8-HxCDD			NO	1.01	10.095					0.210	
5	1,2,3,7,8,9-HxCDD	1.09e2	1.10	NO	1.02	10.095	34.98	1.001	0.23441		0.207	0.234
6	1,2,3,4,6,7,8-HpCDD	7.80e2	1.02	NO	1.07	10.095	38.39	1.000	1.7528		0.425	1.75
7	OCDD	4.75e3	0.90	NO	1.00	10.095	41.94	1.000	15.884		0.849	15.9
8	2,3,7,8-TCDF	2.23e2	0.69	NO	0.864	10.095	26.36	1.001	0.28255		0.0757	0.283
9	1,2,3,7,8-PeCDF			NO	0.948	10.095					0.125	
10	2,3,4,7,8-PeCDF			NO	1.04	10.095					0.103	
11	1,2,3,4,7,8-HxCDF			NO	1.04	10.095					0.0795	
12	1,2,3,6,7,8-HxCDF			NO	1.07	10.095					0.0633	
13	2,3,4,6,7,8-HxCDF			NO	1.12	10.095					0.0802	
14	1,2,3,7,8,9-HxCDF			NO	1.10	10.095					0.0960	
15	1,2,3,4,6,7,8-HpCDF			NO	1.16	10.095					0.0844	
16	1,2,3,4,7,8,9-HpCDF			NO	1.19	10.095					0.120	
17	OCDF			NO	0.909	10.095					0.132	
18	13C-2,3,7,8-TCDD	1.06e5	0.81	NO	1.15	10.095	26.92	1.024	116.82	59.0	0.212	
19	13C-1,2,3,7,8-PeCDD	8.92e4	0.62	NO	0.887	10.095	31.09	1.183	127.43	64.3	0.417	
20	13C-1,2,3,4,7,8-HxCDD	7.31e4	1.41	NO	0.645	10.095	34.52	1.015	114.50	57.8	0.748	
21	13C-1,2,3,6,7,8-HxCDD	8.61e4	1.31	NO	0.717	10.095	34.66	1.019	121.41	61.3	0.673	
22	13C-1,2,3,7,8,9-HxCDD	9.06e4	1.27	NO	0.714	10.095	34.95	1.027	128.24	64.7	0.676	
23	13C-1,2,3,4,6,7,8-HpCDD	8.28e4	1.05	NO	0.583	10.095	38.38	1.128	143.46	72.4	0.749	
24	13C-OCDD	1.18e5	0.90	NO	0.451	10.095	41.93	1.233	264.89	66.9	0.692	
25	13C-2,3,7,8-TCDF	1.81e5	0.76	NO	1.09	10.095	26.34	1.002	110.61	55.8	0.234	
26	13C-1,2,3,7,8-PeCDF	1.44e5	1.64	NO	0.805	10.095	29.98	1.141	119.01	60.1	0.704	
27	13C-2,3,4,7,8-PeCDF	1.41e5	1.62	NO	0.792	10.095	30.93	1.177	118.62	59.9	0.715	
28	13C-1,2,3,4,7,8-HxCDF	1.27e5	0.51	NO	0.997	10.095	33.54	0.986	128.92	65.1	0.691	
29	13C-1,2,3,6,7,8-HxCDF	1.42e5	0.49	NO	1.03	10.095	33.69	0.990	139.48	70.4	0.670	
30	13C-2,3,4,6,7,8-HxCDF	1.33e5	0.51	NO	0.940	10.095	34.41	1.012	142.93	72.1	0.734	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-11.qld

Last Altered: Wednesday, June 09, 2021 15:19:50 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 15:20:17 Pacific Daylight Time

Name: 210524D2_11, Date: 25-May-2021, Time: 02:56:43, ID: 2105020-06 USMPDI-017SC-A-15-16-210429 16.01, Description: USMPDI-017SC-A-15-16-210429, Task: ST210524D2-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31 13C-1,2,3,7,8,9-HxCDF	1.17e5	0.51	NO	0.852	10.095	35.50	1.044	139.00	70.2	0.809	
32 13C-1,2,3,4,6,7,8-HpCDF	1.06e5	0.43	NO	0.727	10.095	37.12	1.091	148.02	74.7	0.698	
33 13C-1,2,3,4,7,8,9-HpCDF	8.81e4	0.42	NO	0.608	10.095	39.07	1.149	146.47	73.9	0.835	
34 13C-OCDF	1.88e5	0.88	NO	0.631	10.095	42.24	1.242	301.88	76.2	0.724	
35 37Cl-2,3,7,8-TCDD	9.15e4			2.22	10.095	26.95	1.026	52.259	65.9	0.0354	
36 13C-1,2,3,4-TCDD	1.56e5	0.78	NO	1.00	10.095	26.28	1.000	198.11	100	0.243	
37 13C-1,2,3,4-TCDF	2.98e5	0.76	NO	1.00	10.095	25.04	1.000	198.11	100	0.255	
38 13C-1,2,3,4,6,9-HxCDF	1.96e5	0.50	NO	1.00	10.095	34.01	1.000	198.11	100	0.689	
39 Total Tetra-Dioxins				1.05	10.095			0.50617		0.0914	0.626
40 Total Penta-Dioxins				0.881	10.095			0.00000		0.0652	0.240
41 Total Hexa-Dioxins				1.01	10.095			1.8034		0.216	1.80
42 Total Hepta-Dioxins				1.07	10.095			4.6656		0.425	4.67
43 Total Tetra-Furans				0.864	10.095			1.2067		0.0757	1.21
44 1st Func. Penta-Furans				0.948	10.095					0.0200	
45 Total Penta-Furans				0.948	10.095					0.0631	
46 Total Hexa-Furans				1.12	10.095			0.064294		0.0402	0.0643
47 Total Hepta-Furans				1.16	10.095					0.0412	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-11.qld
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 Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_11, Date: 25-May-2021, Time: 02:56:43, ID: 2105020-06 USMPDI-017SC-A-15-16-210429 16.01, Description: USMPDI-017SC-A-15-16-210429,
 Task: ST210524D2-1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	23.79	5.080e2	6.810e2	3.789e1	3.766e1	1.01	YES	0.000e0	0.00000	0.11934	0.0914
2	Total Tetra-Dioxins	24.09	1.053e3	8.520e2	4.787e1	5.745e1	0.83	NO	1.053e2	0.18856	0.18856	0.0914
3	Total Tetra-Dioxins	25.21	1.478e3	1.981e3	7.787e1	9.952e1	0.78	NO	1.774e2	0.31760	0.31760	0.0914

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	30.41	3.050e2	7.850e2	1.968e1	6.222e1	0.32	YES	0.000e0	0.00000	0.12830	0.0652
2	1,2,3,7,8-PeCDD	31.09	4.280e2	6.670e2	1.707e1	3.793e1	0.45	YES	5.500e1	0.00000	0.11130	0.0652

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.76	6.532e3	4.339e3	3.471e2	2.559e2	1.36	NO	6.029e2	1.4197	1.4197	0.216
2	Total Hexa-Dioxins	33.40	6.070e2	5.640e2	3.357e1	2.985e1	1.12	NO	6.342e1	0.14933	0.14933	0.216
3	1,2,3,7,8,9-HxCDD	34.98	8.710e2	1.046e3	5.718e1	5.206e1	1.10	NO	1.092e2	0.23441	0.23441	0.207

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.43	9.603e3	1.017e4	6.472e2	6.488e2	1.00	NO	1.296e3	2.9129	2.9129	0.425
2	1,2,3,4,6,7,8-HpCDD	38.39	4.511e3	4.557e3	3.938e2	3.861e2	1.02	NO	7.799e2	1.7528	1.7528	0.425

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Furans	23.13	3.514e3	3.944e3	2.490e2	3.282e2	0.76	NO	5.773e2	0.73080	0.73080	0.0757
2	Total Tetra-Furans	25.53	1.178e3	1.381e3	6.966e1	8.309e1	0.84	NO	1.528e2	0.19338	0.19338	0.0757
3	2,3,7,8-TCDF	26.36	1.803e3	2.204e3	9.079e1	1.324e2	0.69	NO	2.232e2	0.28255	0.28255	0.0757

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-11.qld

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Name: 210524D2_11, Date: 25-May-2021, Time: 02:56:43, ID: 2105020-06 USMPDI-017SC-A-15-16-210429 16.01, Description: USMPDI-017SC-A-15-16-210429, Task: ST210524D2-1

Penta-Furans function 1

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

Penta-Furans

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

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL	
1	Total Hexa-Furans	32.37	4.820e2	7.270e2	2.637e1	2.068e1	1.27	NO	4.706e1	0.064294	0.064294	0.0402

Hepta-Furans

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

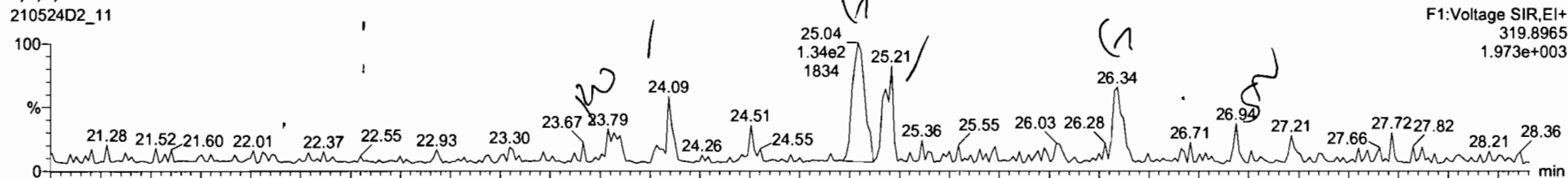
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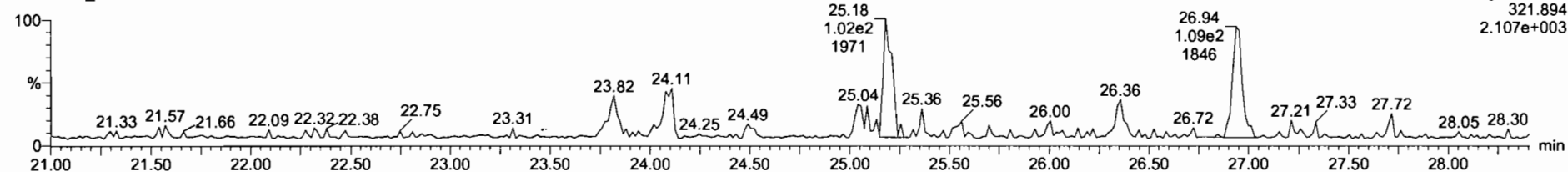
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Name: 210524D2_11, Date: 25-May-2021, Time: 02:56:43, ID: 2105020-06 USMPDI-017SC-A-15-16-210429 16.01, Description: USMPDI-017SC-A-15-16-210429

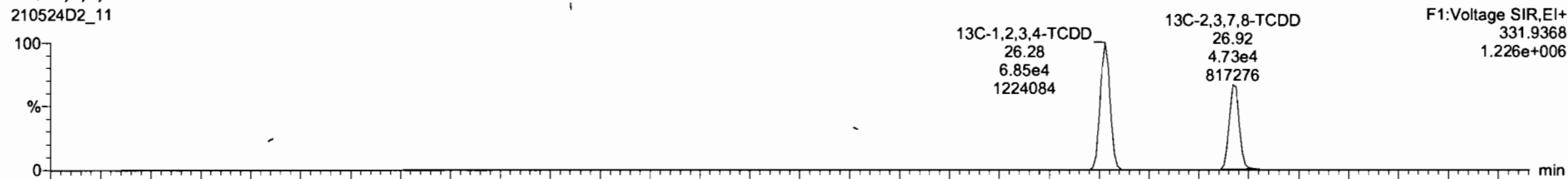
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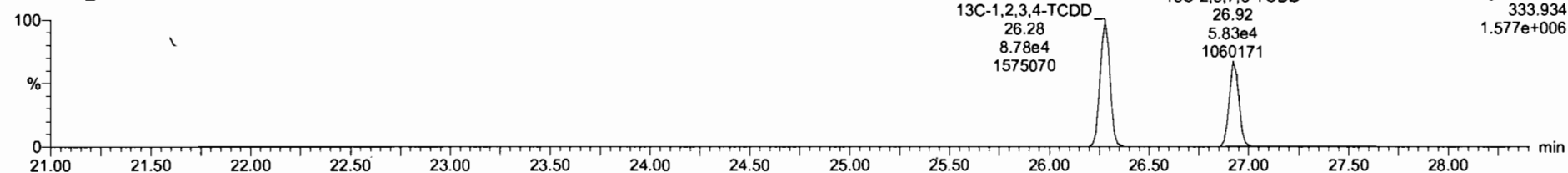
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13C-2,3,7,8-TCDD

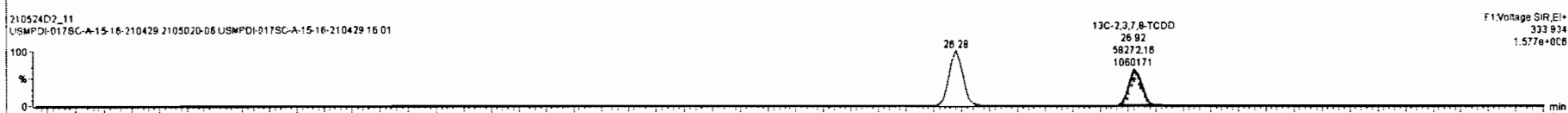
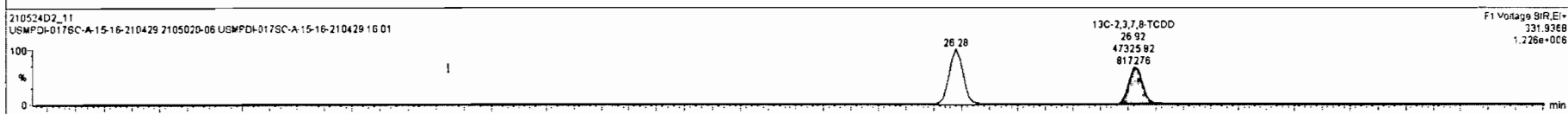
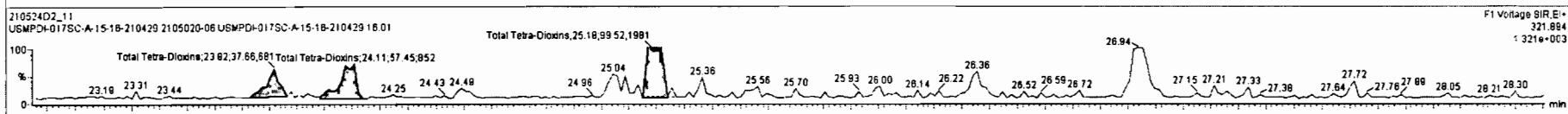
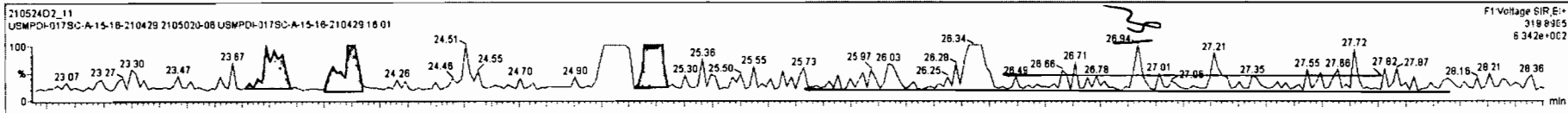


210524D2_11



Name	Resp	RA	n/y	RRF	wAnd	RT	RRT	Conc	%Rec	DL	EMPC
24 13C-OCDD	1.18e5	0.90	NO	0.45	10.095	41.93	1.233	265	66.9	0.692	
25 13C-2,3,7,8-TCDF	1.81e5	0.76	NO	1.09	10.095	26.34	1.002	111	55.8	0.234	
26 13C-1,2,3,7,8-PeCDF	1.44e5	1.64	NO	0.80	10.095	29.98	1.141	119	60.1	0.704	
27 13C-2,3,4,7,8-PeCDF	1.41e5	1.62	NO	0.79	10.095	30.93	1.177	119	59.9	0.715	
28 13C-1,2,3,4,7,8-HxCDF	1.27e5	0.51	NO	1.00	10.095	33.54	0.986	129	65.1	0.691	
29 13C-1,2,3,6,7,8-HxCDF	1.42e5	0.49	NO	1.03	10.095	33.69	0.990	139	70.4	0.670	
30 13C-2,3,4,6,7,8-HxCDF	1.33e5	0.51	NO	0.94	10.095	34.41	1.012	143	72.1	0.734	
31 13C-1,2,3,7,8,9-HxCDF	1.17e5	0.51	NO	0.85	10.095	35.50	1.044	139	70.2	0.809	

Name	RT /1	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	23.79	3.789e1	3.786e1	1.01	YES	0.11934	0.00000
2 Total Tetra-Dioxins	24.09	4.787e1	5.745e1	0.83	NO	0.18856	0.18856
3 Total Tetra-Dioxins	25.21	7.787e1	9.952e1	0.78	NO	0.31760	0.31760



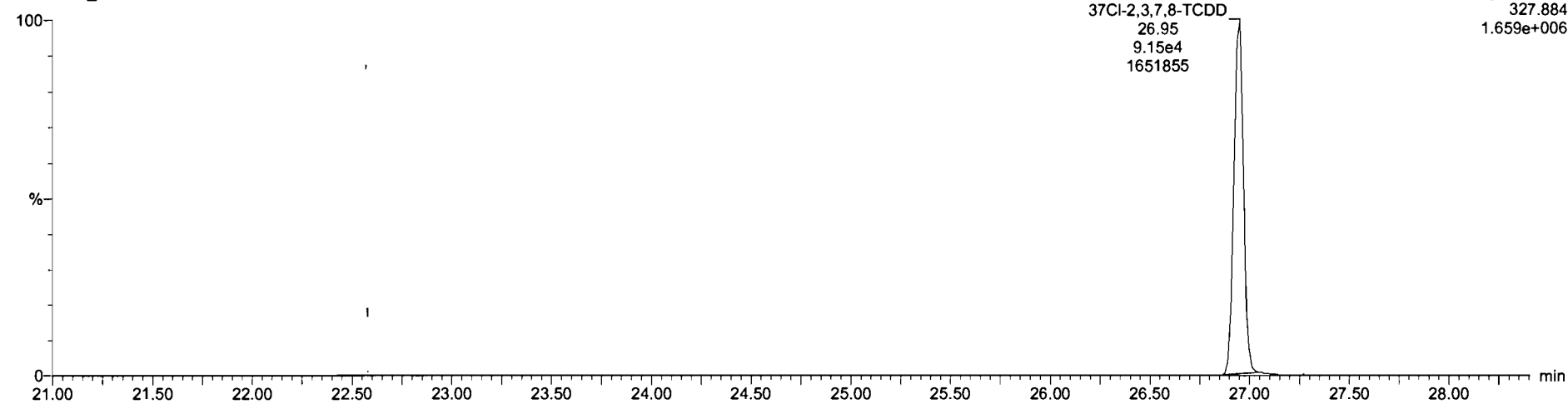
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Name: 210524D2_11, Date: 25-May-2021, Time: 02:56:43, ID: 2105020-06 USMPDI-017SC-A-15-16-210429 16.01, Description: USMPDI-017SC-A-15-16-210429

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

210524D2_11



F1:Voltage SIR,EI+
327.884
1.659e+006

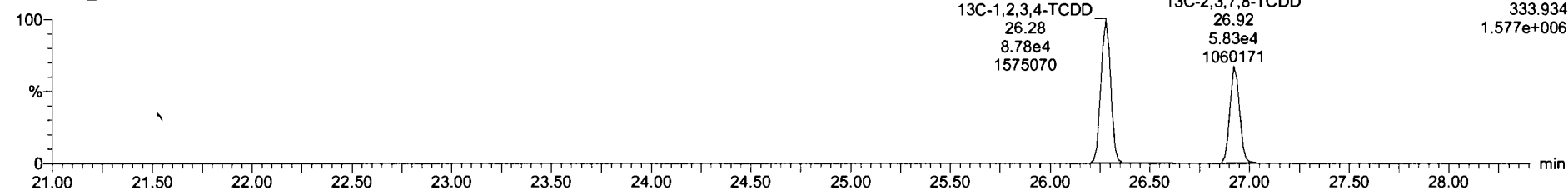
13C-1,2,3,4-TCDD

210524D2_11



F1:Voltage SIR,EI+
331.9368
1.226e+006

210524D2_11



F1:Voltage SIR,EI+
333.934
1.577e+006

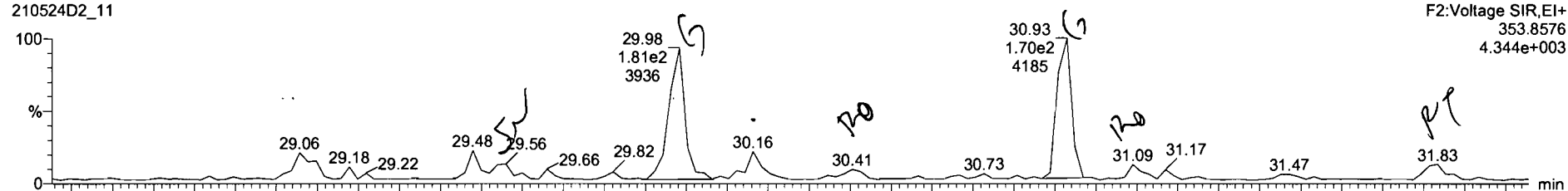
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Name: 210524D2_11, Date: 25-May-2021, Time: 02:56:43, ID: 2105020-06 USMPDI-017SC-A-15-16-210429 16.01, Description: USMPDI-017SC-A-15-16-210429

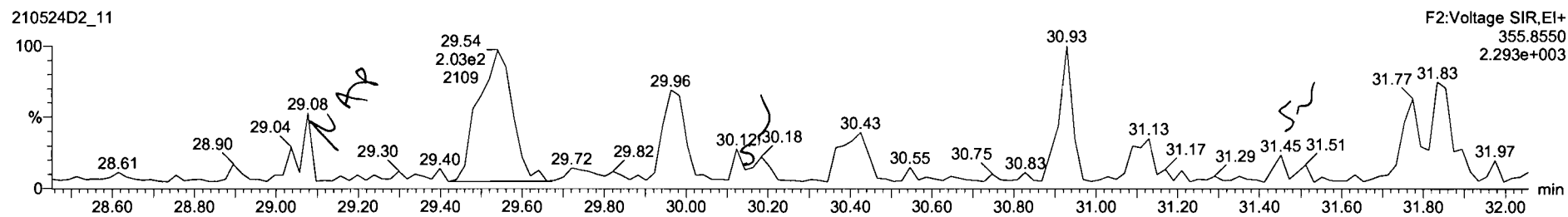
1,2,3,7,8-PeCDD

210524D2_11



F2:Voltage SIR,EI+
353.8576
4.344e+003

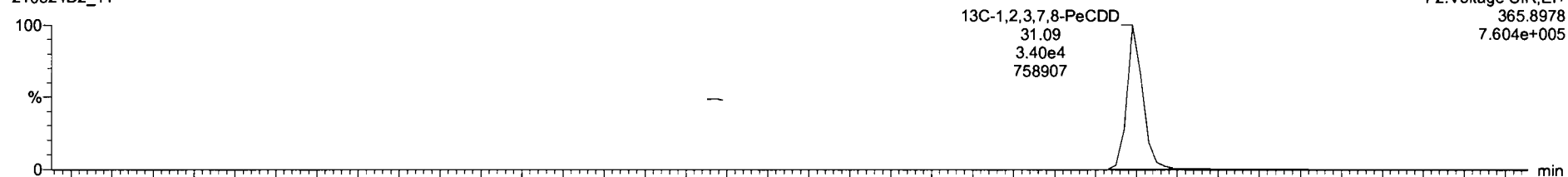
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F2:Voltage SIR,EI+
355.8550
2.293e+003

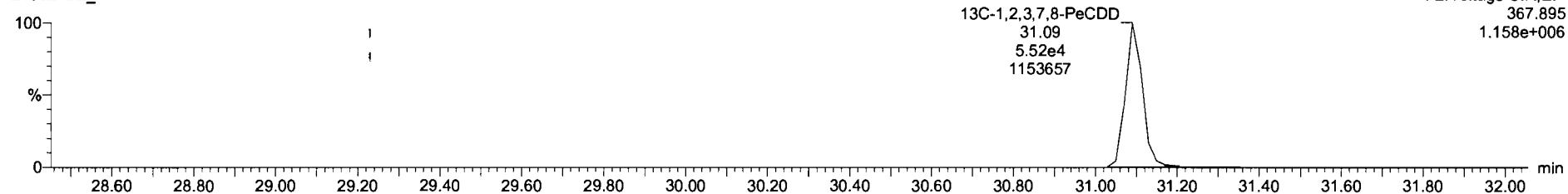
13C-1,2,3,7,8-PeCDD

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F2:Voltage SIR,EI+
365.8978
7.604e+005

210524D2_11

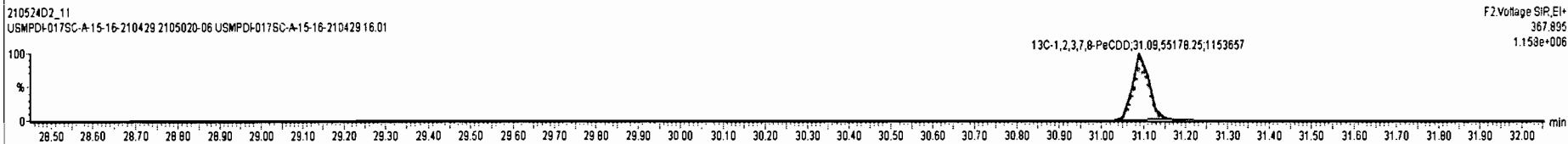
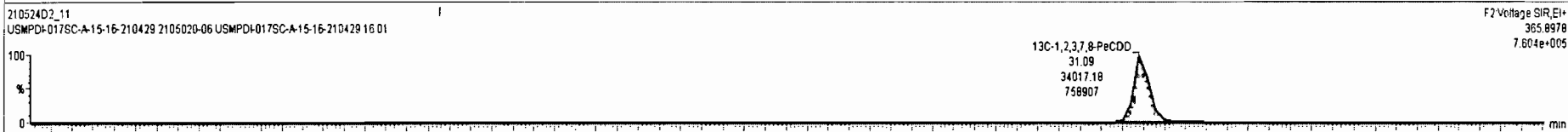
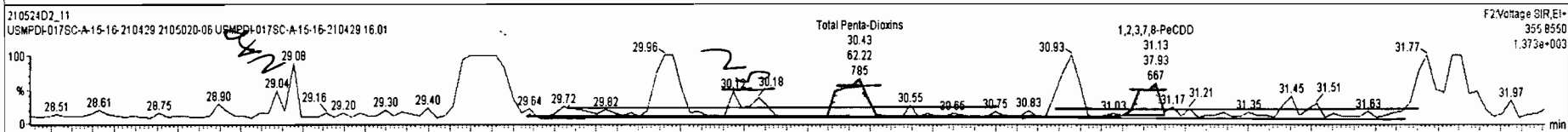
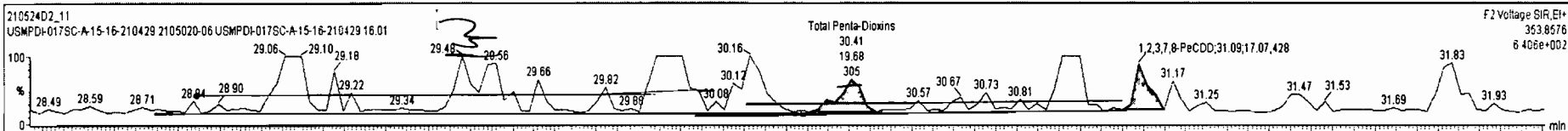


F2:Voltage SIR,EI+
367.895
1.158e+006

210524D2_11 - 2105020-06 USMPDI-017SC-A-15-16-210429 16.01 - USMPDI-017SC-A-15-16-210429

Name	Resp	RA	n/y	RRF	wtAvd	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.88	10.095			0.000		0.0652	0.240
41 Total Hexa-Dioxins				1.01	10.095			1.42		0.216	1.42
42 Total Hepta-Dioxins				1.07	10.095			2.94		0.425	3.91
43 Total Tetra-Furans				0.86	10.095			0.732		0.0757	0.732
44 1st Func. Penta-Furans				0.95	10.095					0.0200	
45 Total Penta-Furans				0.95	10.095					0.0631	
46 Total Hexa-Furans				1.12	10.095					0.0402	
47 Total Hepta-Furans				1.15	10.095					0.0412	

Name	RT (t)	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	30.41	1.968e1	6.222e1	0.32	YES	0.12630	0.00000
2 1,2,3,7,8-PeCDD	31.09	1.707e1	3.793e1	0.45	YES	0.11130	0.00000



Ready

210524D2_11

CAP NLM

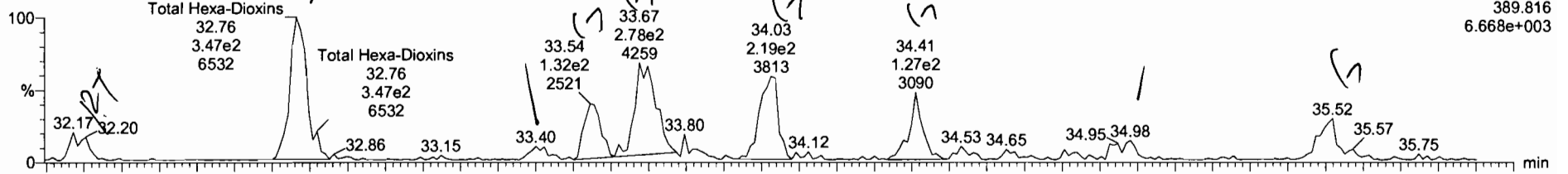
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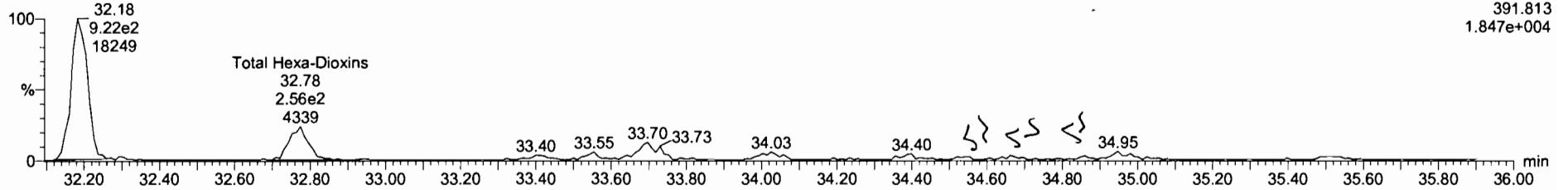
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1,2,3,4,7,8-HxCDD

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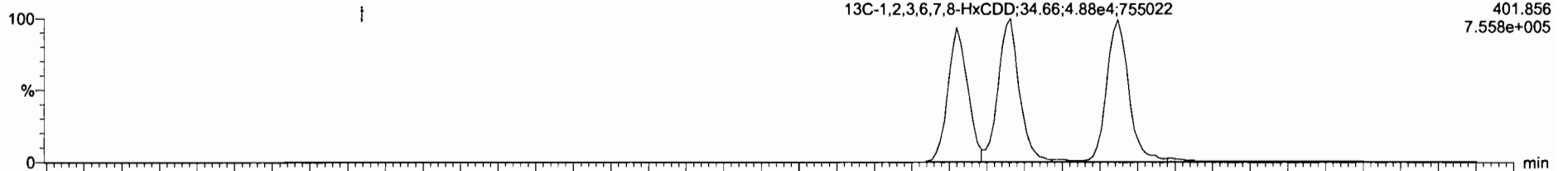


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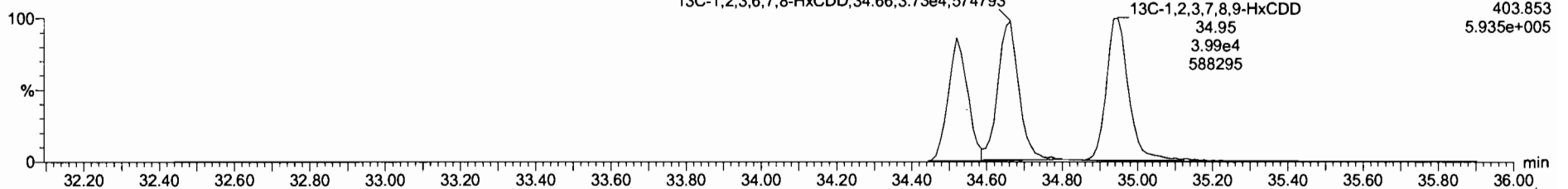


13C-1,2,3,4,7,8-HxCDD

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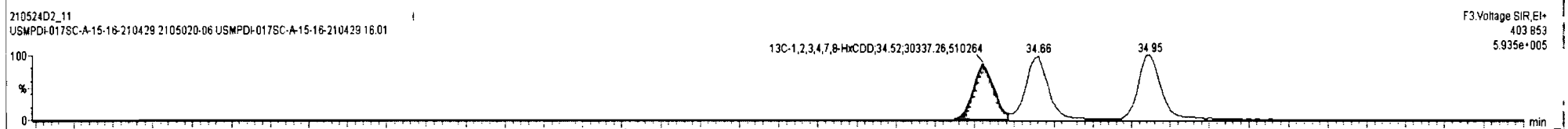
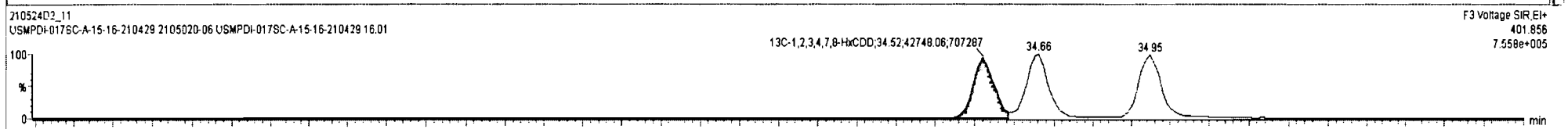
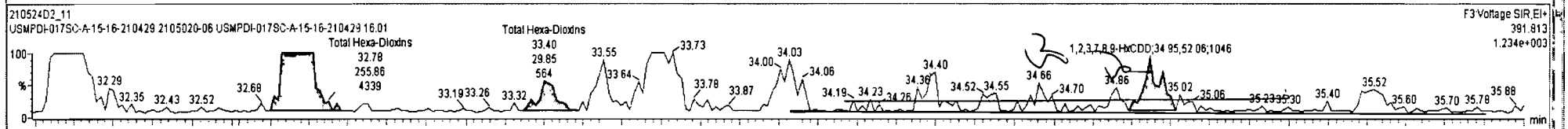
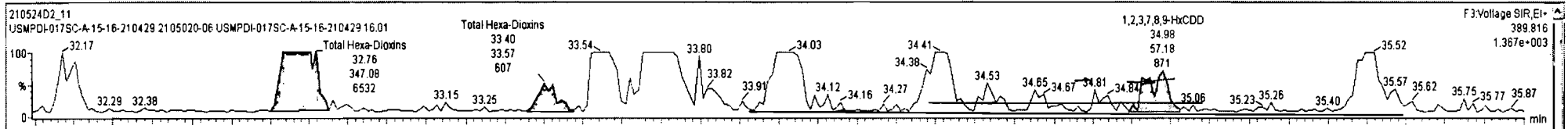


210524D2_11



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
24	13C-OCDD	1.18e5	0.90	NO	0.45	10.095	41.93	1.233	265	66.8	0.692	
25	13C-2,3,7,8-TCDF	1.81e5	0.76	NO	1.09	10.095	26.34	1.002	111	55.8	0.234	
26	13C-1,2,3,7,8-PeCDF	1.44e5	1.64	NO	0.80	10.095	29.98	1.141	119	60.1	0.704	
27	13C-2,3,4,7,8-PeCDF	1.41e5	1.62	NO	0.79	10.095	30.93	1.177	119	59.8	0.715	
28	13C-1,2,3,4,7,8-HxCDF	1.27e5	0.51	NO	1.00	10.095	33.54	0.966	129	65.1	0.681	
29	13C-1,2,3,6,7,8-HxCDF	1.42e5	0.49	NO	1.03	10.095	33.68	0.990	139	70.4	0.670	
30	13C-2,3,4,6,7,8-HxCDF	1.33e5	0.51	NO	0.94	10.095	34.41	1.012	143	72.1	0.734	
31	13C-1,2,3,7,8,9-HxCDF	1.17e5	0.51	NO	0.85	10.095	35.50	1.044	139	70.2	0.809	

#	Name	RT /	m1 Resp	m2 Resp	RA	n/y	EWPC	Conc.
1	Total Hexa-Dioxins	32.76	3.471e2	2.559e2	1.36	NO	1.4197	1.4197
2	Total Hexa-Dioxins	33.40	3.357e1	2.985e1	1.12	NO	0.14933	0.14933
3	1,2,3,7,8,9-HxCDD	34.98	5.718e1	5.206e1	1.10	NO	0.23441	0.23441



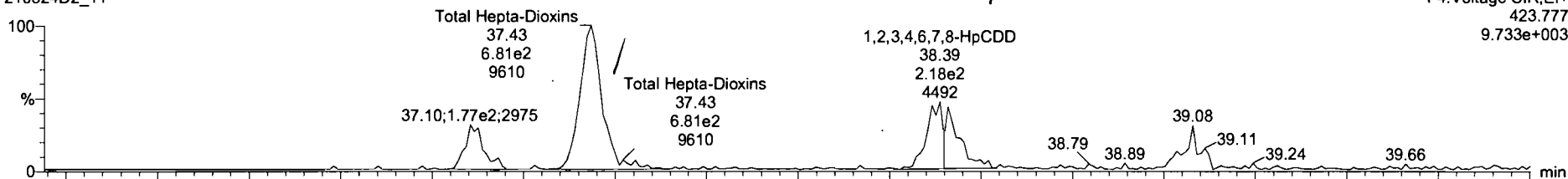
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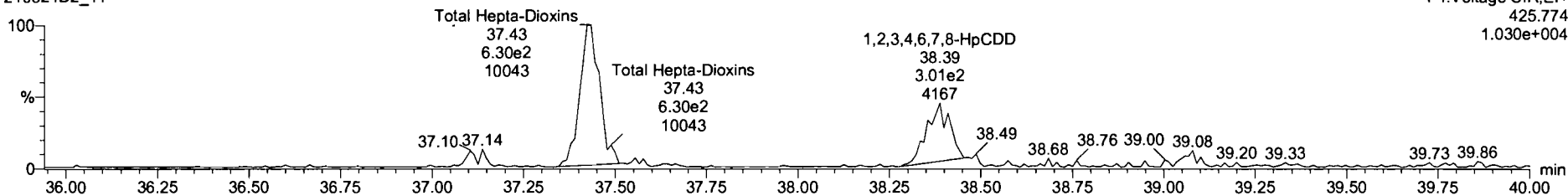
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1,2,3,4,6,7,8-HpCDD

210524D2_11

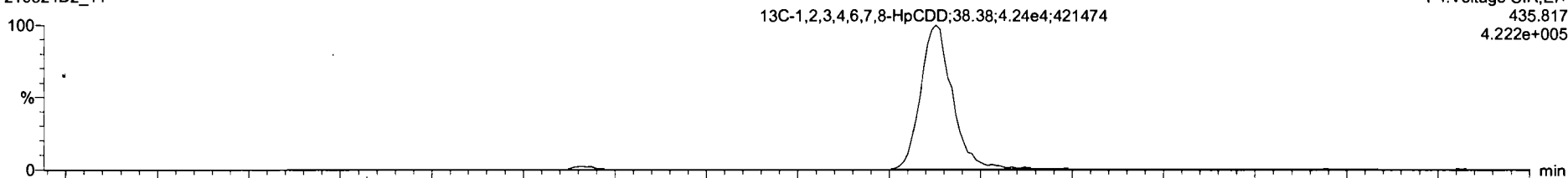


210524D2_11

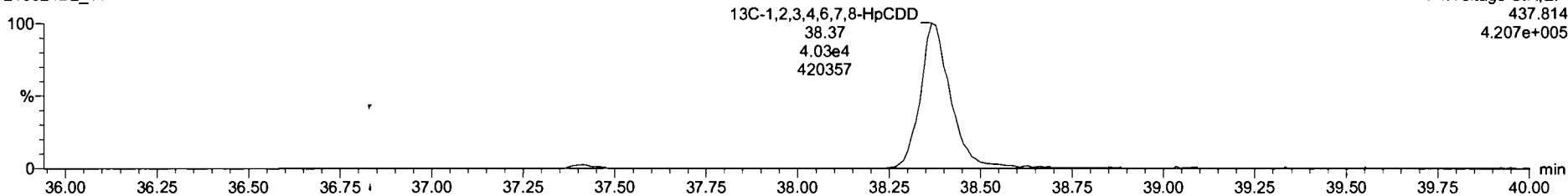


13C-1,2,3,4,6,7,8-HpCDD

210524D2_11



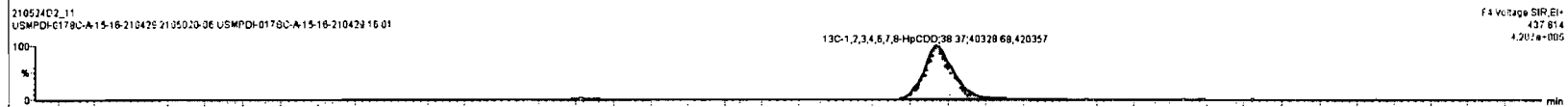
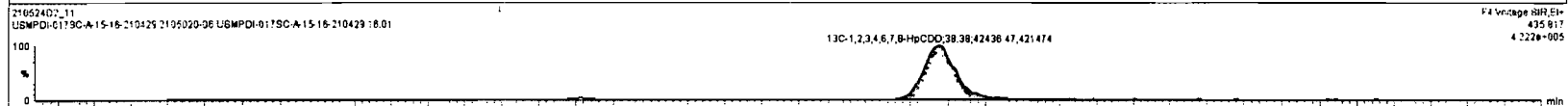
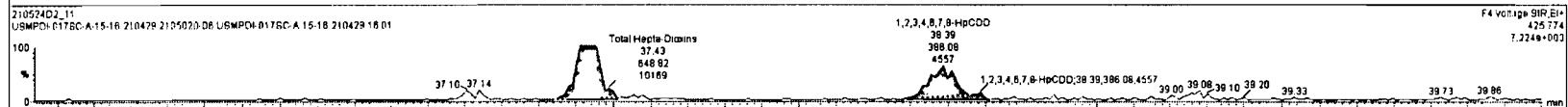
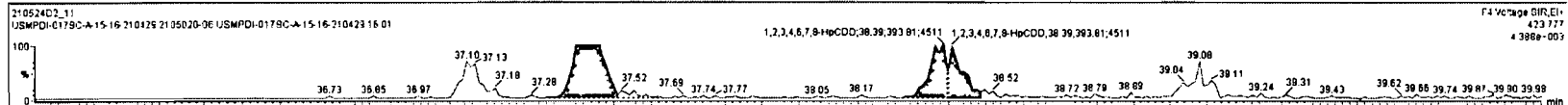
210524D2_11



210524D2_11 - 2105020-09 USMPDI-0179C-A-15-18-210429 15.01 - USMPDI-0179C-A-15-18-210429

Name	Resp	RA	Qty	RFI	Method	RT	RRT	Conc	%Rec	DL	ENPC
42 Total Hepta-Oxoline				1.07	10.095			4.87	0.425	4.67	
43 Total Tetra-Furans				0.95	10.095			0.732	0.0757	0.732	
44 1st Func. Penta-Furans				0.95	10.095				0.0200		
45 Total Penta-Furans				0.95	10.095				0.0631		
46 Total Hexa-Furans				1.12	10.095				0.0402		
47 Total Hepta-Furans				1.18	10.095				0.0412		
48 PFK1											
49 PFK2											

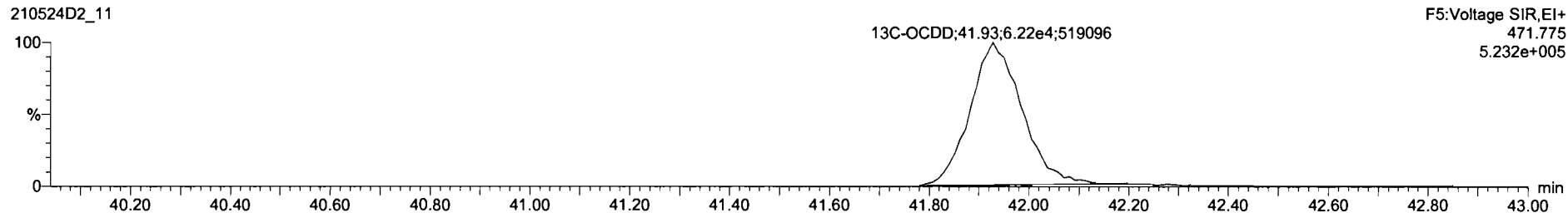
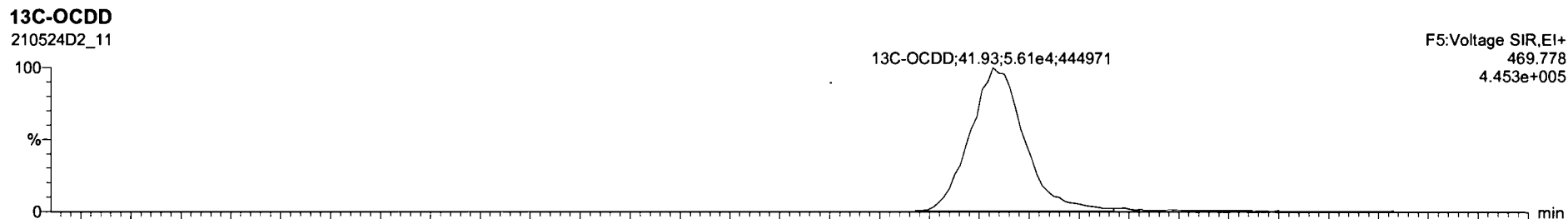
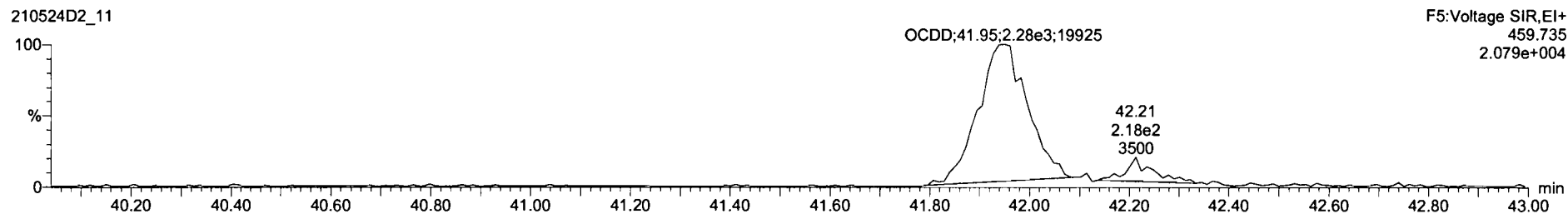
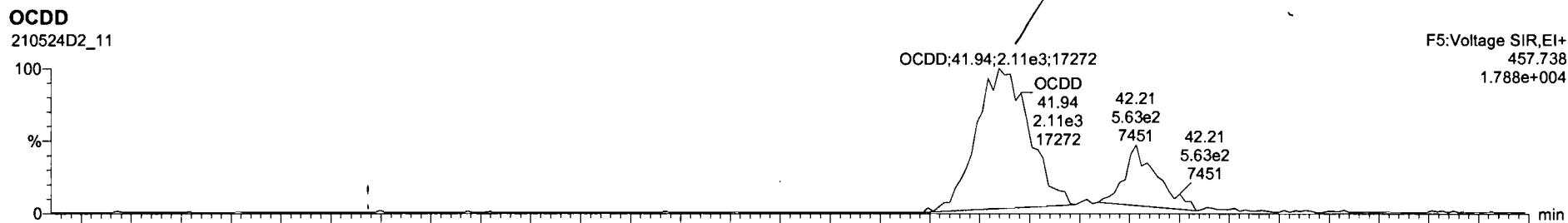
Name	RT	Int Resp	Int Resp	RA	RFI	ENPC	Conc
1 Total Hepta-Oxoline	37.43	6.472e2	6.498e2	1.00	NO	2.9129	2.9129
2 1,2,3,4,6,7,8-HpCDD	38.39	3.939e2	3.961e2	1.02	NO	1.7520	1.7520



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-11.qld

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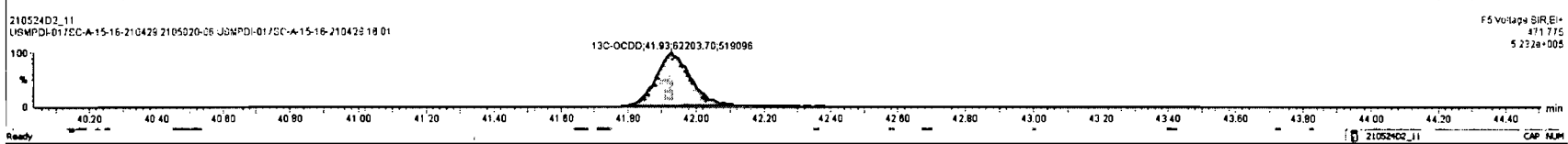
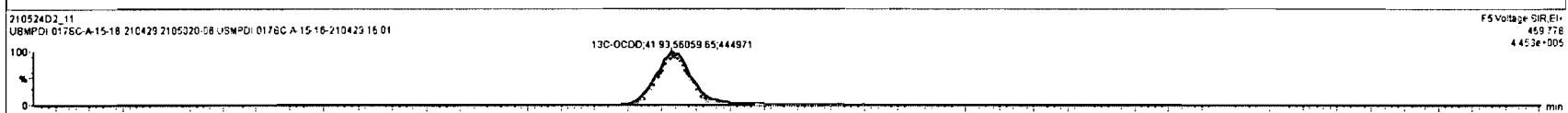
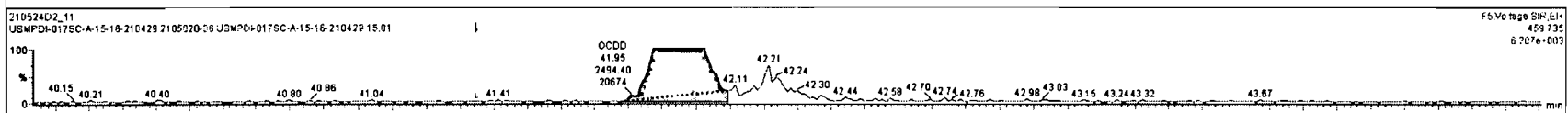
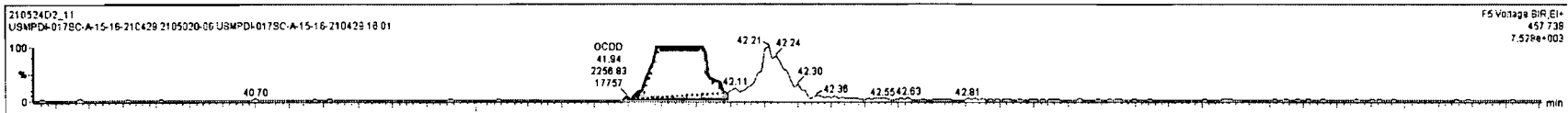
Name: 210524D2_11, Date: 25-May-2021, Time: 02:56:43, ID: 2105020-06 USMPDI-017SC-A-15-16-210429 16.01, Description: USMPDI-017SC-A-15-16-210429



210524D2_11 - 210520:06 USMPCD-0175C-A-15-16-210428 15.01 - USMPCD-0175C-A-15-16-210429

#	Name	Resp	RA	n/y	RRF	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDF			NO	1.05	10.095					0.0914	
2	1,2,3,7,8-PeCDD			NO	0.88	10.095					0.188	
3	1,2,3,4,7,8-HxCDD			NO	1.14	10.095					0.204	
4	1,2,3,6,7,8-HxCDD			NO	1.01	10.095					0.210	
5	1,2,3,7,8-HxCDD			NO	1.02	10.095					0.207	
6	1,2,3,4,6,7,8-HxCDD	519e2	0.73	YES	1.07	10.095	39.30	1.000	1.17		0.425	0.963
7	OCDD	4.75e3	0.50	NO	1.00	10.095	41.94	1.000	15.9		0.843	15.8
8	2,3,7,8-TCDF			NO	0.88	10.095					0.0757	

Name	RT1	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.



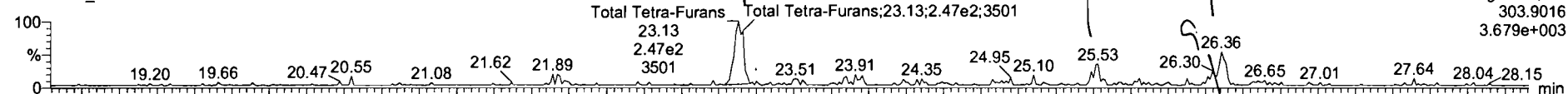
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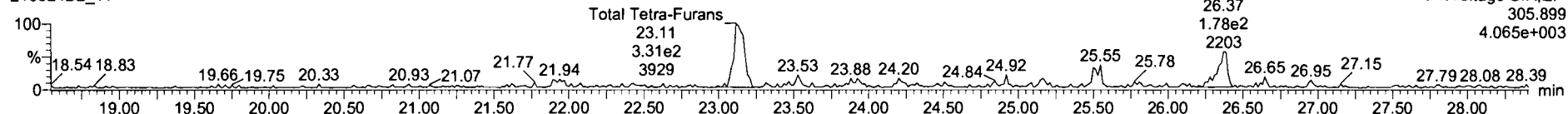
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2,3,7,8-TCDF

210524D2_11

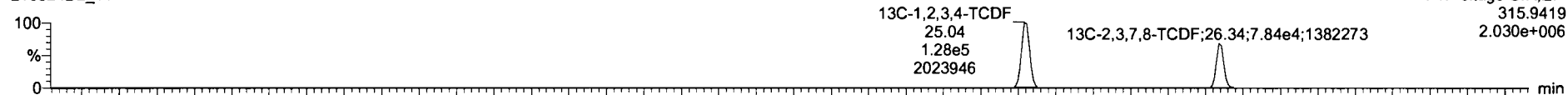


210524D2_11

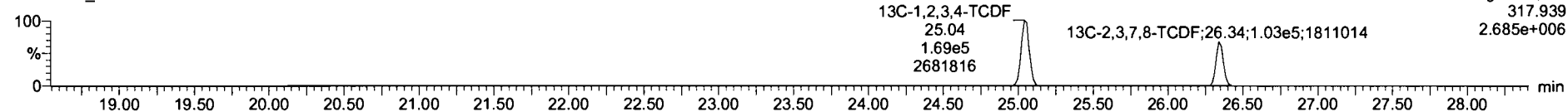


13C-2,3,7,8-TCDF

210524D2_11

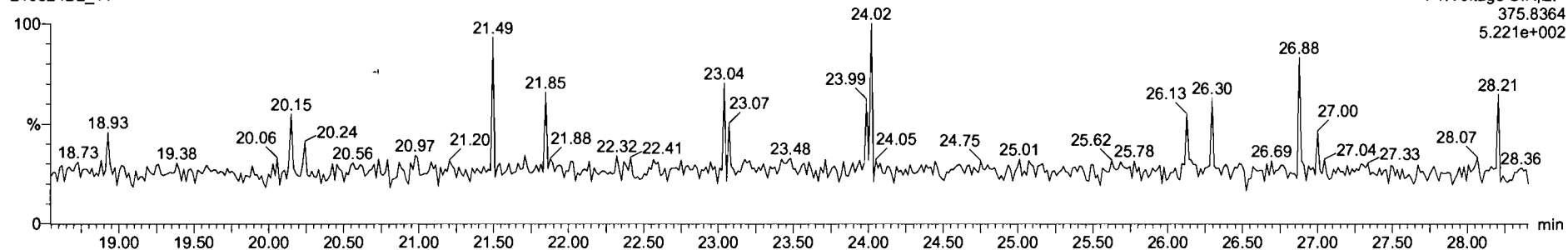


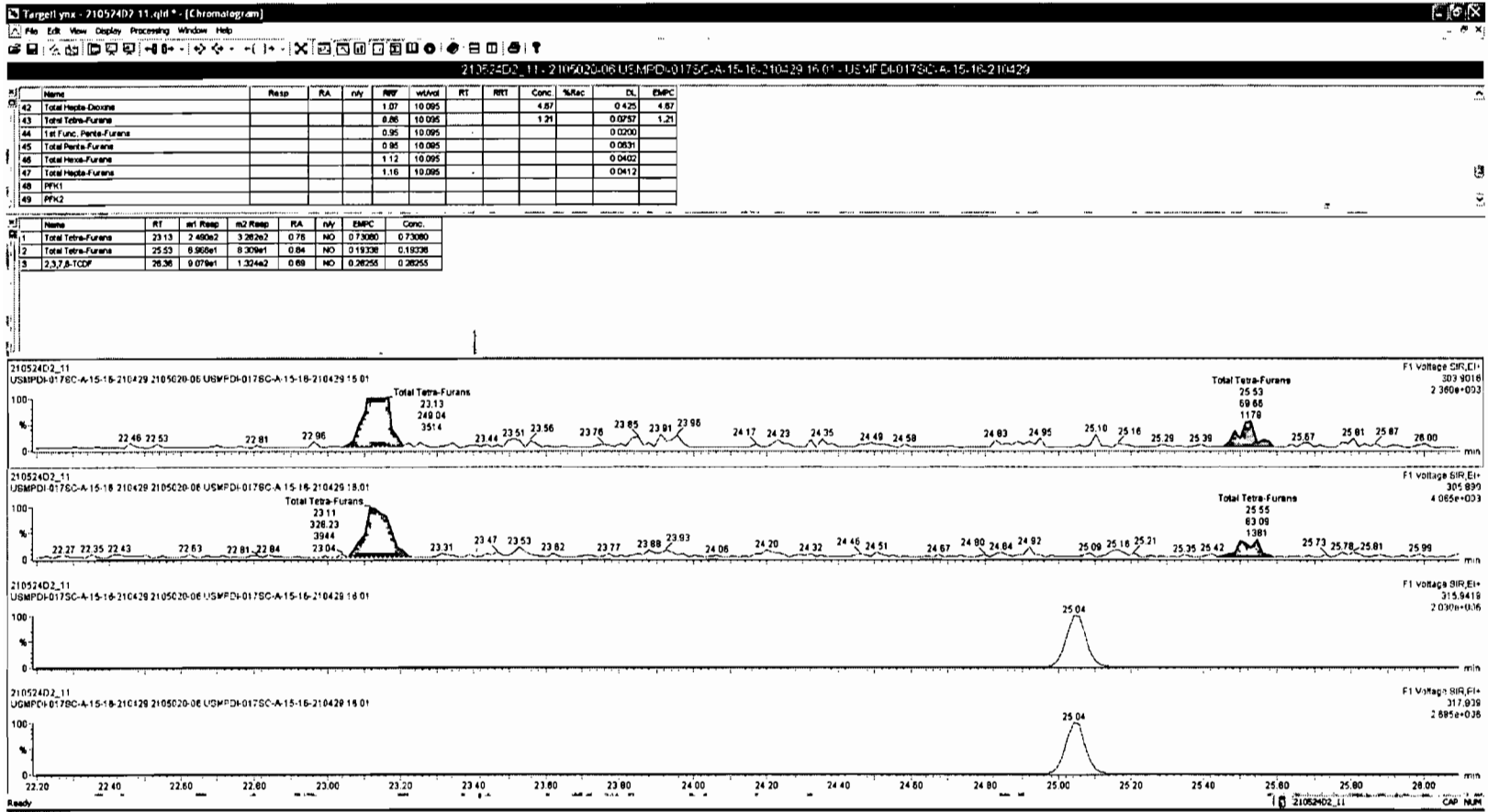
210524D2_11



DPE1

210524D2_11

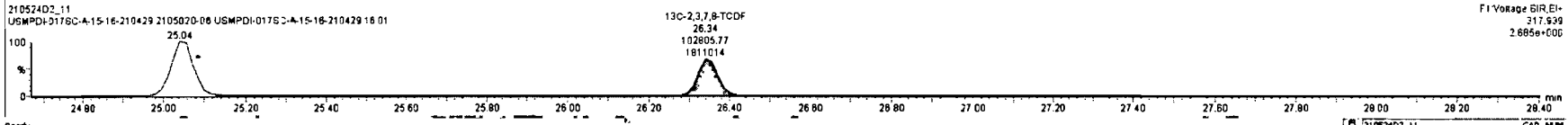
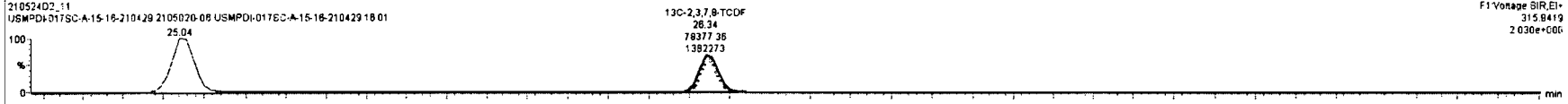
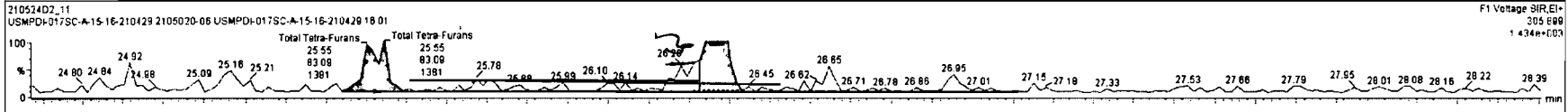
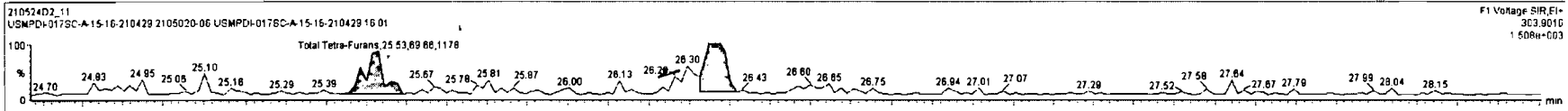




21052402_11 - 2105020-06 USMPDI-017SC-A-15-16-210429 15 01 - USMPDI-017SC-A-15-16-210429

Name	Resp	RA	n/y	R ²	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hexa-Dioxins				1.07	10.095			4.67		0.425	4.67
43 Total Tetra-Furans				0.86	10.095			1.21		0.0767	1.21
44 1st Func. Penta-Furans				0.95	10.095					0.0200	
45 Total Penta-Furans				0.95	10.095					0.0631	
46 Total Hexa-Furans				1.12	10.095					0.0402	
47 Total Hepta-Furans				1.16	10.095					0.0412	
48 PFK1											
48 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	23.13	2.490e2	3.262e2	0.76	NO	0.73060	0.73060
2 Total Tetra-Furans	25.53	6.966e1	8.309e1	0.84	NO	0.19338	0.19338
3 2,3,7,8-TCDF	26.36	9.079e1	1.324e2	0.69	NO	0.26255	0.26255



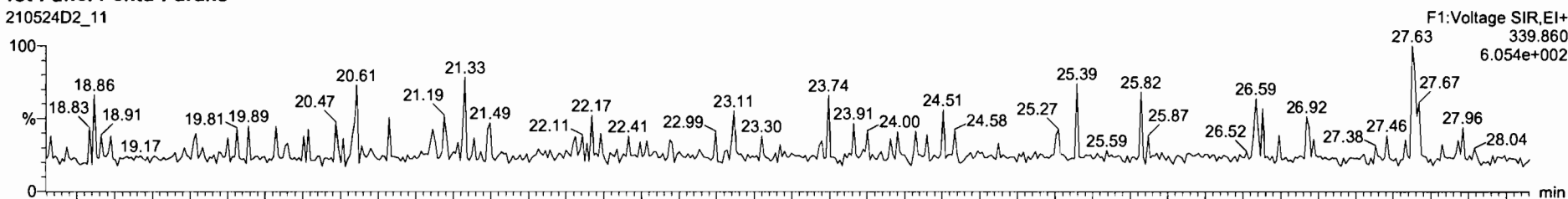
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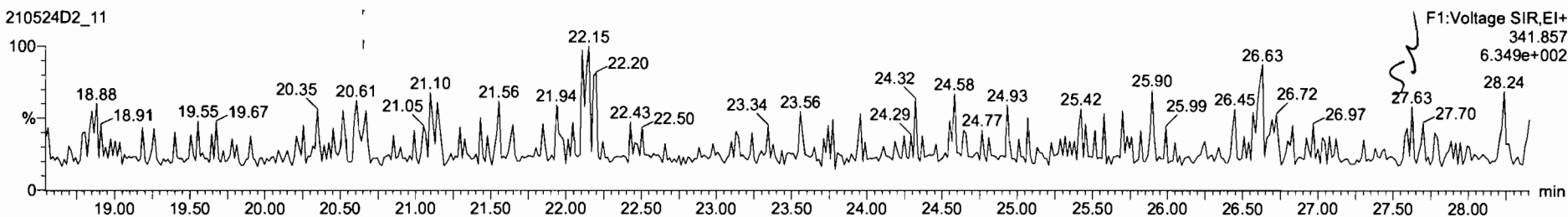
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1st Func. Penta-Furans

210524D2_11

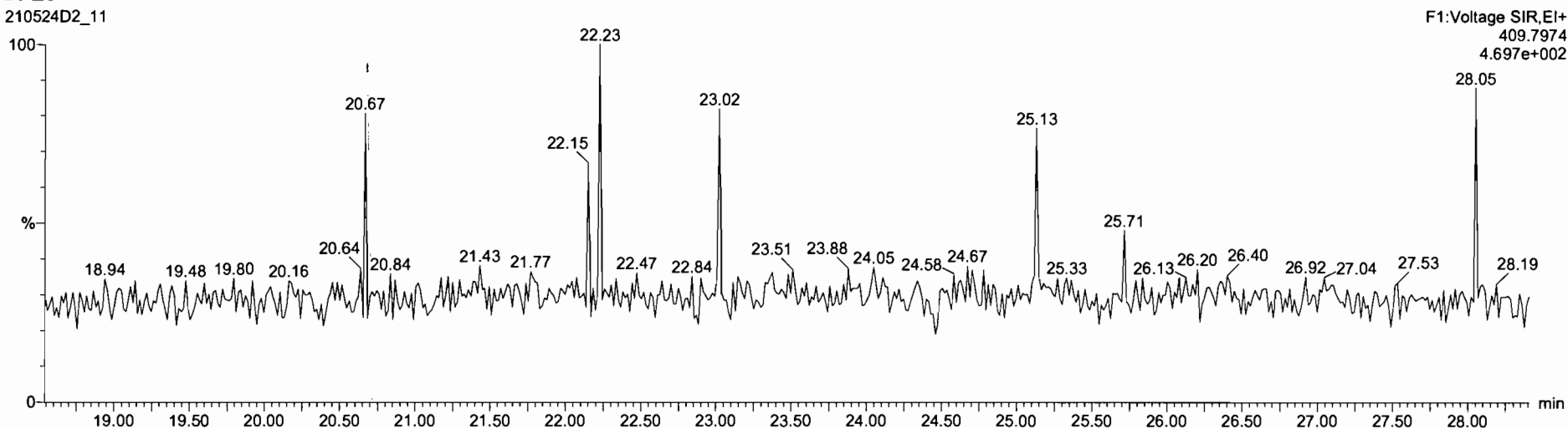


210524D2_11



DPE6

210524D2_11

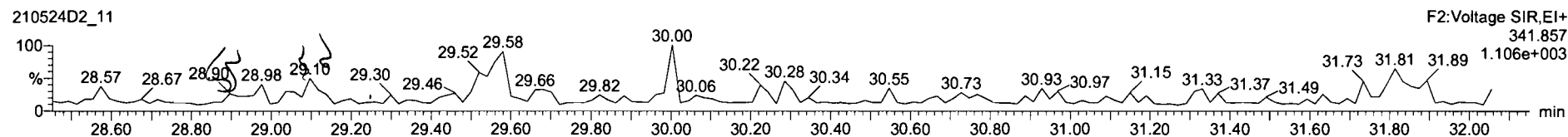
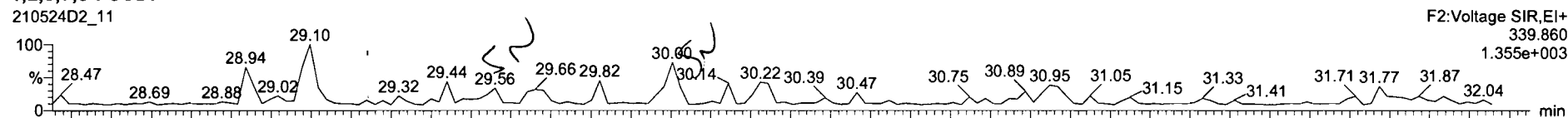


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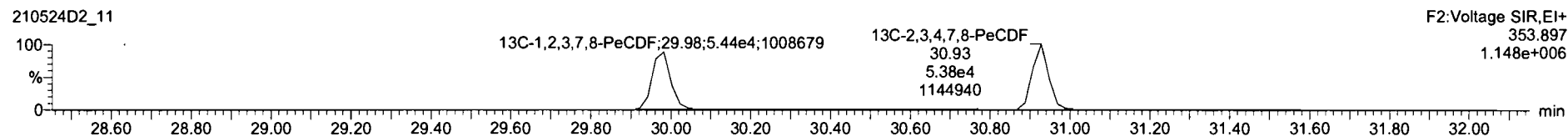
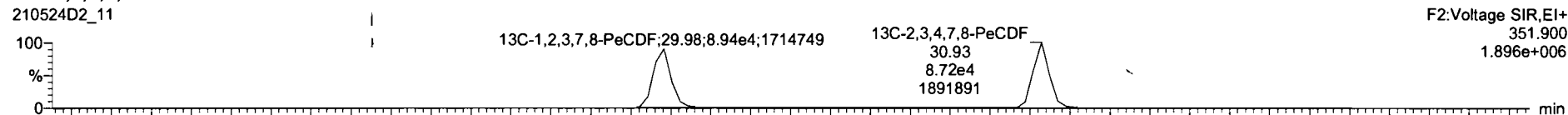
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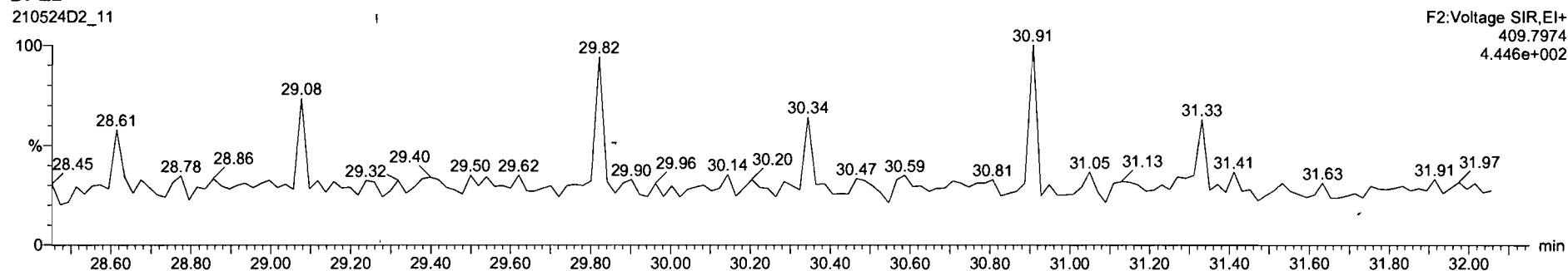
1,2,3,7,8-PeCDF



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



DPE2

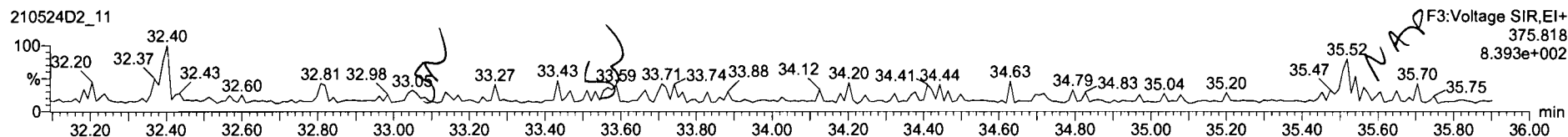
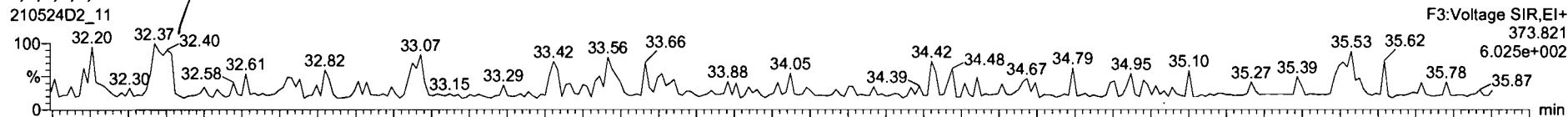


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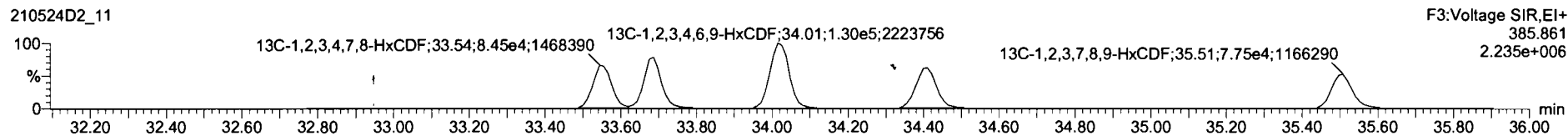
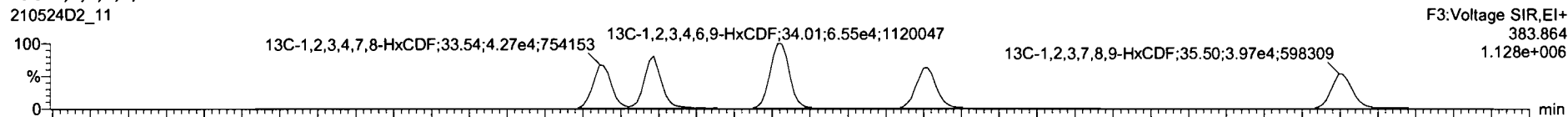
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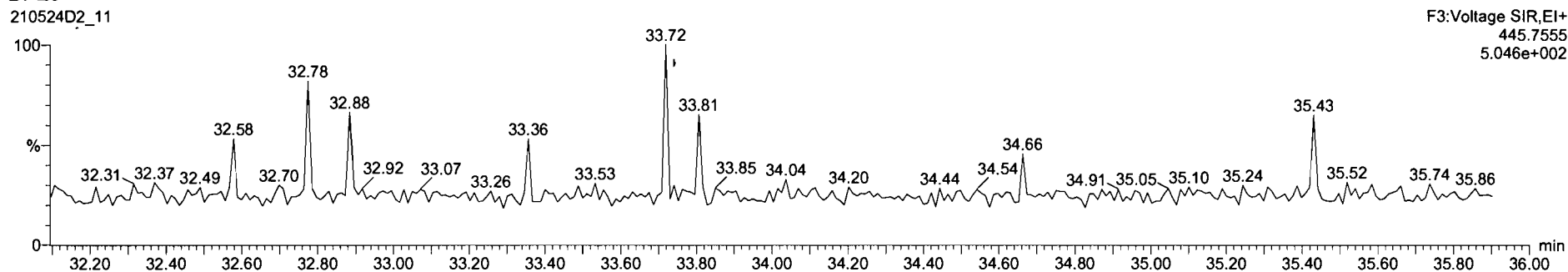
1,2,3,4,7,8-HxCDF



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

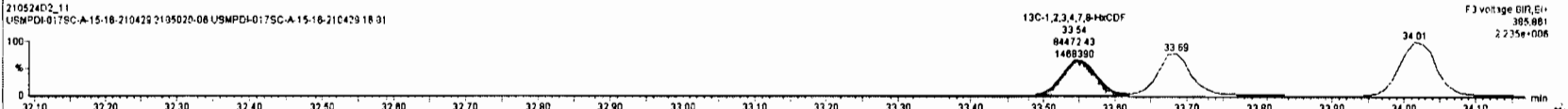
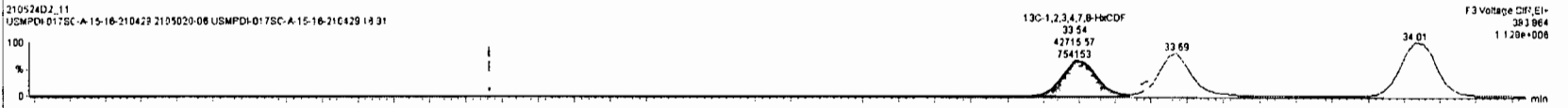
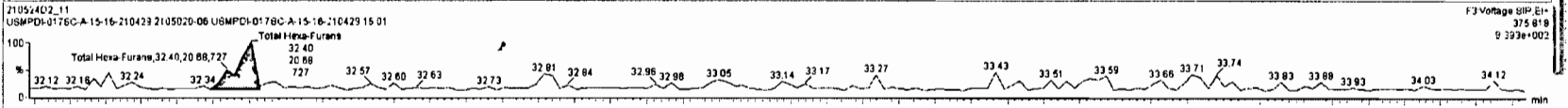
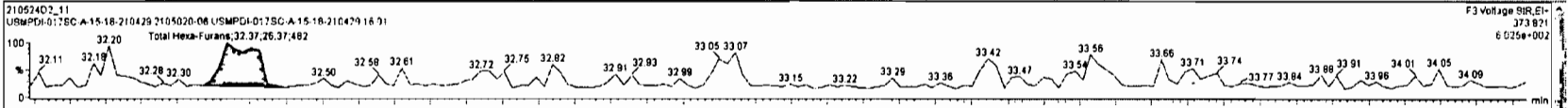


DPE3



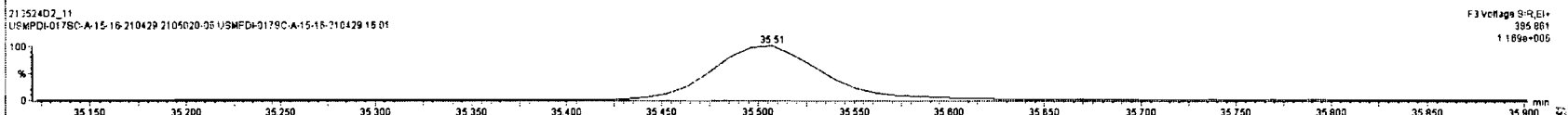
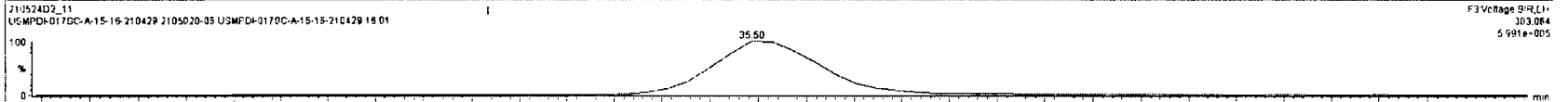
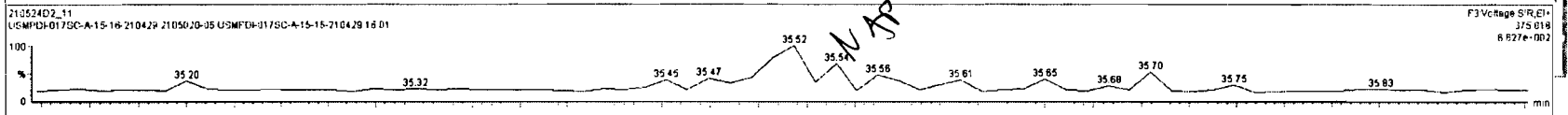
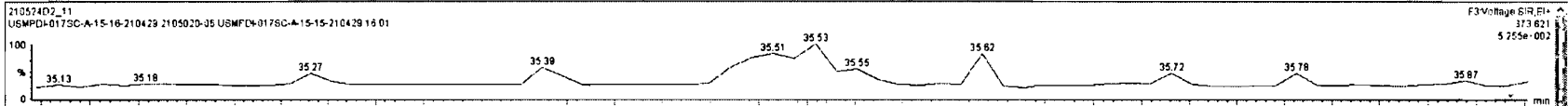
Name	Resp	RA	rvj	RRF	wAval	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.095			4.67		0.425	4.67
43 Total Tetra-Furans				0.86	10.095			1.21		0.0757	1.21
44 1st Func. Penta-Furans				0.95	10.095					0.0200	
45 Total Penta-Furans				0.95	10.095					0.0631	
46 Total Hexa-Furans				1.12	10.095			0.0643		0.0643	
47 Total Hepta-Furans				1.16	10.095					0.0412	
48 PF1s											
49 PF2s											

Name	RT	m1 Resp	m2 Resp	RA	rvj	EMPC	Conc.
1 Total Hexa-Furans	32.37	2.637e1	2.006e1	1.27	NO	0.064294	0.064294



Name	Resp	RA	n/y	RF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.095			4.67	0.425	4.67	
43 Total Tetra-Furans				0.86	10.095			1.21	0.0757	1.21	
44 1st Func. Penta-Furans				0.95	10.095				0.0200		
45 Total Penta-Furans				0.95	10.095				0.0831		
46 Total Hexa-Furans				1.12	10.095			0.0643	0.0402	0.0643	
47 Total Hepta-Furans				1.16	10.095				0.0412		
48 PFK1											
49 PFK2											

Name	RT	a	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
Total Hexa-Furans	32.37	2	637e1	2.00be1	1.27	NO	0.064294	0.064294

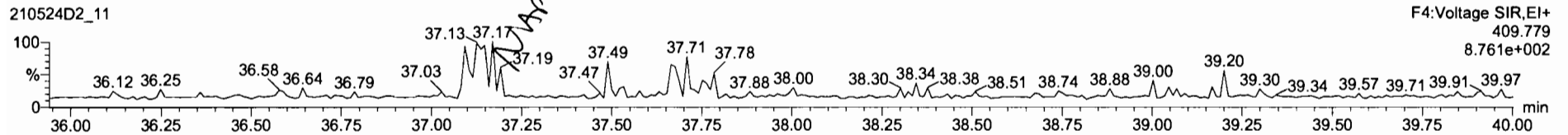
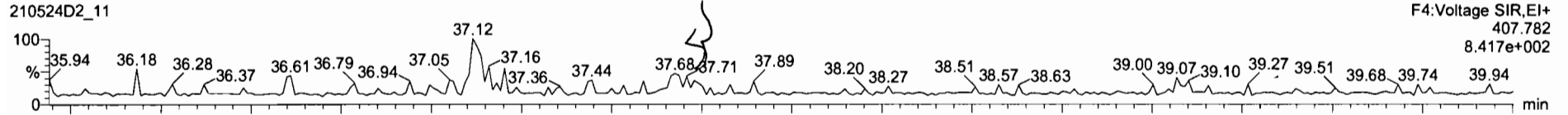


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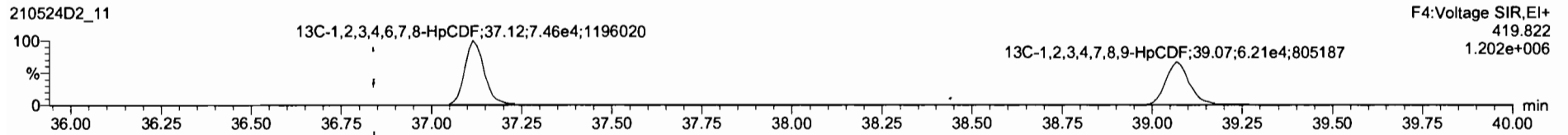
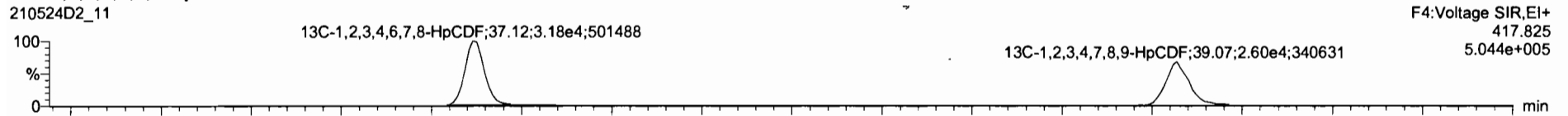
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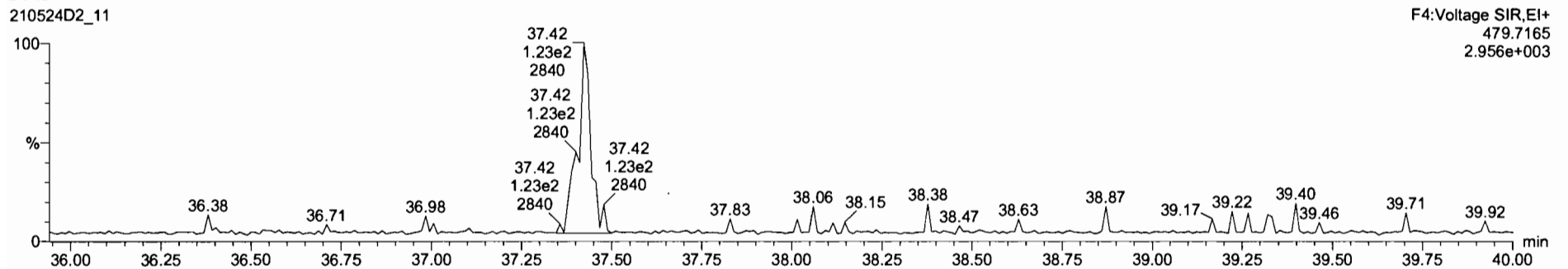
1,2,3,4,6,7,8-HpCDF



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



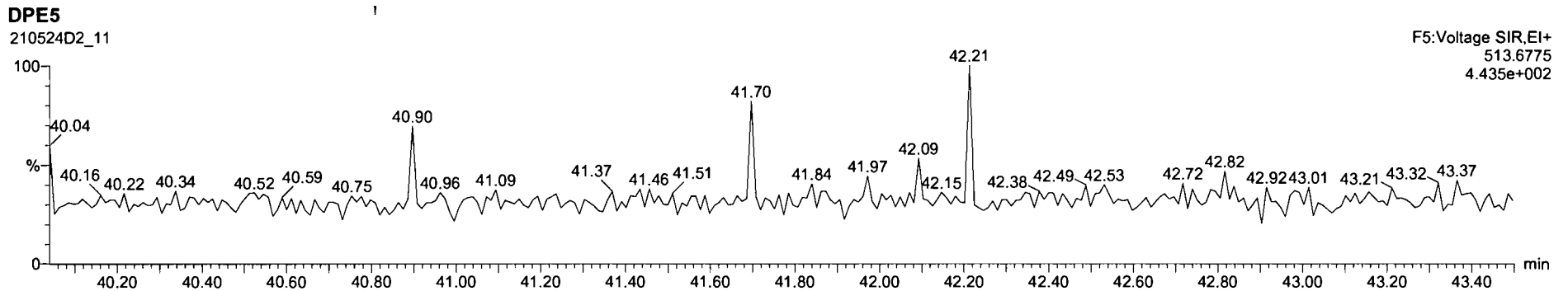
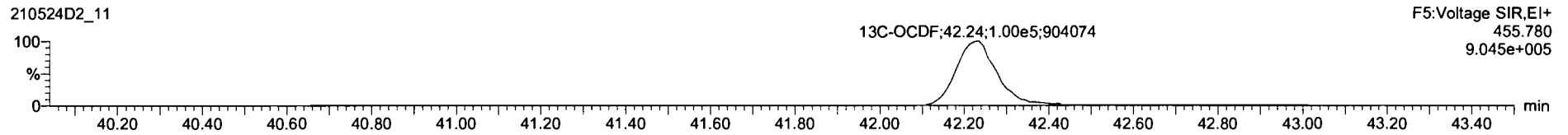
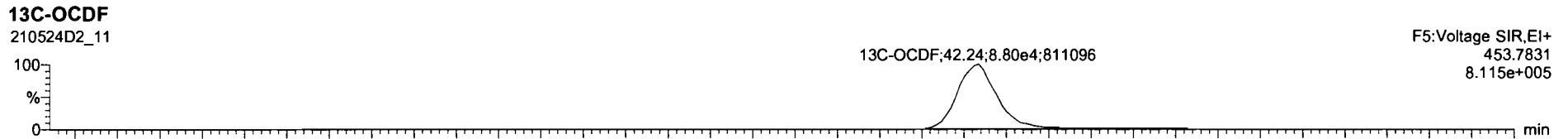
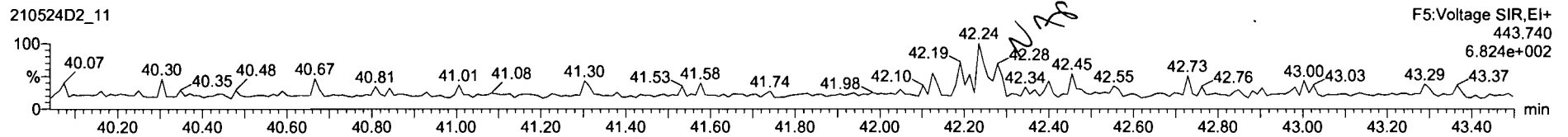
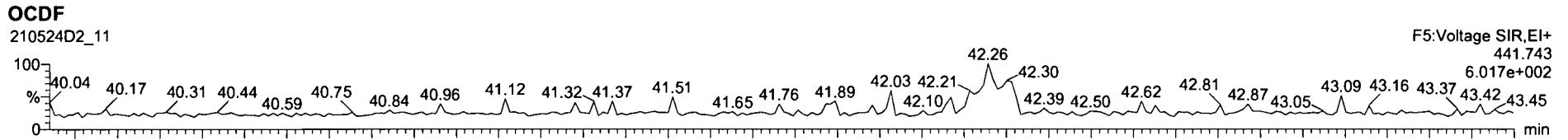
DPE4



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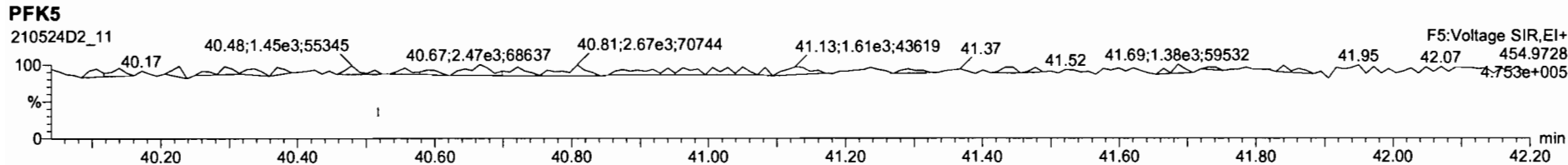
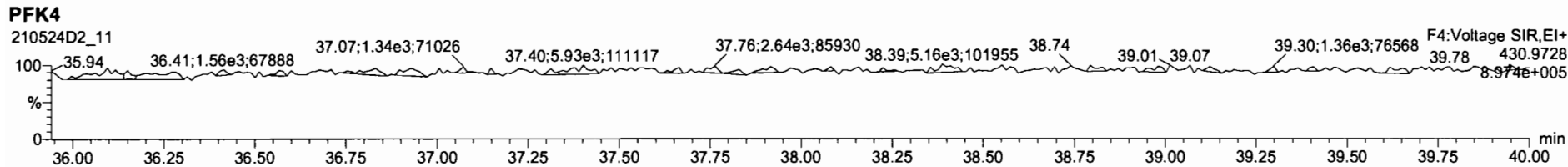
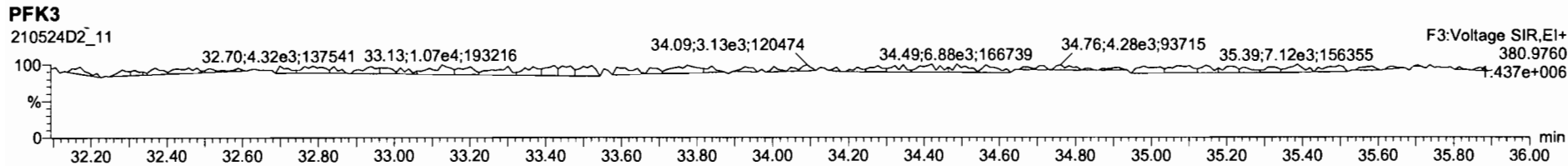
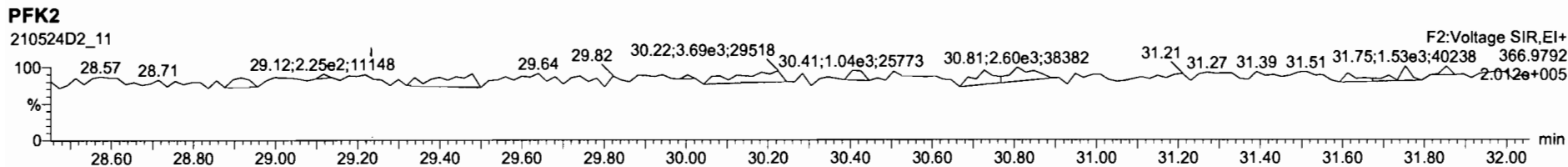
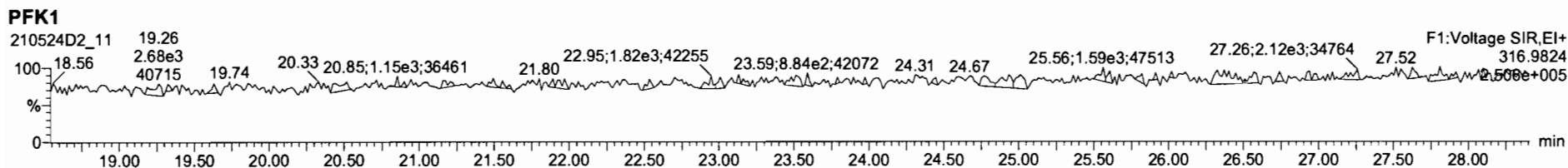
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Last Altered: Wednesday, May 26, 2021 12:11:37 Pacific Daylight Time
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Name: 210524D2_11, Date: 25-May-2021, Time: 02:56:43, ID: 2105020-06 USMPDI-017SC-A-15-16-210429 16.01, Description: USMPDI-017SC-A-15-16-210429



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-12.qld

Last Altered: Wednesday, June 09, 2021 15:52:25 Pacific Daylight Time

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HL 6-9-2021

CT 06/10/2021

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_12, Date: 25-May-2021, Time: 03:42:37, ID: 2105020-07 USMPDI-020SC-A-15-16-210429 16.6, Description: USMPDI-020SC-A-15-16-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.52e2	0.30	YES	1.05	10.150	26.95	1.001	0.35515		0.117	0.190
2	1,2,3,7,8-PeCDD	2.18e2	0.84	YES	0.881	10.150	31.11	1.001	0.42840		0.224	0.380
3	1,2,3,4,7,8-HxCDD	2.75e2	1.08	NO	1.14	10.150	34.52	1.001	0.51561		0.499	0.516
4	1,2,3,6,7,8-HxCDD	2.24e3	1.23	NO	1.01	10.150	34.66	1.001	4.3095		0.544	4.31
5	1,2,3,7,8,9-HxCDD	8.62e2	1.17	NO	1.02	10.150	34.97	1.001	1.5075		0.536	1.51
6	1,2,3,4,6,7,8-HpCDD	1.09e5	1.02	NO	1.07	10.150	38.32	1.001	194.68		0.990	195
7	OCDD	6.27e5	0.90	NO	1.00	10.150	42.10	1.000	1766.0		2.20	1770
8	2,3,7,8-TCDF	2.00e4	0.77	NO	0.864	10.150	26.37	1.001	19.761		0.167	19.8
9	1,2,3,7,8-PeCDF	2.35e4	1.63	NO	0.948	10.150	29.98	1.001	26.887		0.179	26.9
10	2,3,4,7,8-PeCDF	1.74e4	1.62	NO	1.04	10.150	30.95	1.001	18.401		0.162	18.4
11	1,2,3,4,7,8-HxCDF	2.66e4	1.25	NO	1.04	10.150	33.56	1.000	31.004		0.280	31.0
12	1,2,3,6,7,8-HxCDF	7.88e3	1.29	NO	1.07	10.150	33.71	1.000	8.4548		0.269	8.45
13	2,3,4,6,7,8-HxCDF	2.59e3	1.26	NO	1.12	10.150	34.42	1.001	2.8908		0.262	2.89
14	1,2,3,7,8,9-HxCDF	1.42e3	1.08	NO	1.10	10.150	35.55	1.001	1.8072		0.362	1.81
15	1,2,3,4,6,7,8-HpCDF	2.05e4	1.04	NO	1.16	10.150	37.09	1.000	28.711		0.310	28.7
16	1,2,3,4,7,8,9-HpCDF	3.74e3	1.08	NO	1.19	10.150	39.09	1.001	5.7686		0.415	5.77
17	OCDF	3.25e4	0.84	NO	0.909	10.150	42.36	1.000	67.966		0.586	68.0
18	13C-2,3,7,8-TCDD	1.34e5	0.79	NO	1.15	10.150	26.92	1.024	155.46	78.9	0.250	
19	13C-1,2,3,7,8-PeCDD	1.14e5	0.63	NO	0.887	10.150	31.09	1.183	170.74	86.6	0.361	
20	13C-1,2,3,4,7,8-HxCDD	9.19e4	1.28	NO	0.645	10.150	34.50	1.014	148.95	75.6	0.562	
21	13C-1,2,3,6,7,8-HxCDD	1.02e5	1.35	NO	0.717	10.150	34.64	1.018	148.23	75.2	0.506	
22	13C-1,2,3,7,8,9-HxCDD	1.11e5	1.35	NO	0.714	10.150	34.94	1.027	161.94	82.2	0.508	
23	13C-1,2,3,4,6,7,8-HpCDD	1.04e5	1.08	NO	0.583	10.150	38.30	1.126	186.18	94.5	0.668	
24	13C-OCDD	1.40e5	0.89	NO	0.451	10.150	42.09	1.237	323.74	82.1	0.576	
25	13C-2,3,7,8-TCDF	2.31e5	0.75	NO	1.09	10.150	26.34	1.002	146.74	74.5	0.244	
26	13C-1,2,3,7,8-PeCDF	1.82e5	1.57	NO	0.805	10.150	29.96	1.140	156.42	79.4	0.513	
27	13C-2,3,4,7,8-PeCDF	1.80e5	1.62	NO	0.792	10.150	30.93	1.177	157.17	79.8	0.521	
28	13C-1,2,3,4,7,8-HxCDF	1.62e5	0.50	NO	0.997	10.150	33.55	0.986	169.87	86.2	0.642	
29	13C-1,2,3,6,7,8-HxCDF	1.71e5	0.50	NO	1.03	10.150	33.70	0.990	173.93	88.3	0.622	
30	13C-2,3,4,6,7,8-HxCDF	1.58e5	0.49	NO	0.940	10.150	34.39	1.011	175.75	89.2	0.681	

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Name: 210524D2_12, Date: 25-May-2021, Time: 03:42:37, ID: 2105020-07 USMPDI-020SC-A-15-16-210429 16.6, Description: USMPDI-020SC-A-15-16-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.41e5	0.48	NO	0.852	10.150	35.52	1.044	173.44	88.0	0.751	
32	13C-1,2,3,4,6,7,8-HpCDF	1.21e5	0.42	NO	0.727	10.150	37.08	1.090	174.67	88.6	0.656	
33	13C-1,2,3,4,7,8,9-HpCDF	1.08e5	0.40	NO	0.608	10.150	39.07	1.148	185.27	94.0	0.784	
34	13C-OCDF	2.07e5	0.85	NO	0.631	10.150	42.35	1.244	344.04	87.3	0.612	
35	37Cl-2,3,7,8-TCDD	1.06e5			2.22	10.150	26.95	1.026	63.663	80.8	0.0795	
36	13C-1,2,3,4-TCDD	1.48e5	0.86	NO	1.00	10.150	26.28	1.000	197.05	100	0.287	
37	13C-1,2,3,4-TCDF	2.84e5	0.78	NO	1.00	10.150	25.04	1.000	197.05	100	0.266	
38	13C-1,2,3,4,6,9-HxCDF	1.88e5	0.50	NO	1.00	10.150	34.03	1.000	197.05	100	0.640	
39	Total Tetra-Dioxins				1.05	10.150			7.2517		0.117	8.15
40	Total Penta-Dioxins				0.881	10.150			5.4447		0.224	8.97
41	Total Hexa-Dioxins				1.01	10.150			58.890		0.549	58.9
42	Total Hepta-Dioxins				1.07	10.150			448.26		0.990	448
43	Total Tetra-Furans				0.864	10.150			79.531		0.167	82.0
44	1st Func. Penta-Furans				0.948	10.150			19.693		0.0758	19.7
45	Total Penta-Furans				0.948	10.150			89.016		0.178	91.1 P
46	Total Hexa-Furans				1.12	10.150			82.704		0.282	86.4
47	Total Hepta-Furans				1.16	10.150			95.195		0.364	95.2

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 Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_12, Date: 25-May-2021, Time: 03:42:37, ID: 2105020-07 USMPDI-020SC-A-15-16-210429 16.6, Description: USMPDI-020SC-A-15-16-210429,
 Task: ST210524D2-1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	23.80	2.797e4	3.244e4	1.831e3	2.234e3	0.82	NO	4.066e3	5.7219	5.7219	0.117
2	Total Tetra-Dioxins	24.08	5.584e3	5.624e3	2.592e2	3.081e2	0.84	NO	5.672e2	0.79830	0.79830	0.117
3	Total Tetra-Dioxins	25.19	1.665e3	2.282e3	7.571e1	1.296e2	0.58	YES	0.000e0	0.00000	0.24493	0.117
4	Total Tetra-Dioxins	25.36	2.422e3	1.936e3	1.164e2	1.236e2	0.94	YES	0.000e0	0.00000	0.30779	0.117
5	Total Tetra-Dioxins	25.56	2.060e3	1.523e3	8.951e1	1.087e2	0.82	NO	1.982e2	0.27888	0.27888	0.117
6	Total Tetra-Dioxins	26.69	2.348e3	2.432e3	1.346e2	1.871e2	0.72	NO	3.216e2	0.45265	0.45265	0.117
7	2,3,7,8-TCDD	26.95	1.020e3	3.083e3	5.877e1	1.936e2	0.30	YES	2.524e2	0.00000	0.19014	0.117
8	Total Tetra-Dioxins	27.23	8.240e2	1.404e3	4.900e1	7.760e1	0.63	YES	0.000e0	0.00000	0.15852	0.117

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	29.08	6.881e3	1.148e4	5.102e2	7.972e2	0.64	NO	1.307e3	2.5725	2.5725	0.224
2	Total Penta-Dioxins	29.50	1.686e3	3.726e3	9.879e1	2.386e2	0.41	YES	0.000e0	0.00000	0.50295	0.224
3	Total Penta-Dioxins	29.96	1.110e4	1.508e4	5.827e2	6.764e2	0.86	YES	0.000e0	0.00000	2.1694	0.224
4	Total Penta-Dioxins	30.12	2.926e3	4.080e3	2.441e2	3.388e2	0.72	NO	5.829e2	1.1469	1.1469	0.224
5	Total Penta-Dioxins	30.41	3.092e3	4.147e3	1.899e2	2.894e2	0.66	NO	4.792e2	0.94298	0.94298	0.224
6	Total Penta-Dioxins	30.67	1.340e3	1.503e3	5.712e1	8.790e1	0.65	NO	1.450e2	0.28536	0.28536	0.224
7	1,2,3,7,8-PeCDD	31.11	2.084e3	3.096e3	9.936e1	1.184e2	0.84	YES	2.177e2	0.00000	0.37960	0.224
8	Total Penta-Dioxins	31.19	2.704e3	2.275e3	1.272e2	1.466e2	0.87	YES	0.000e0	0.00000	0.47003	0.224
9	Total Penta-Dioxins	31.45	1.721e3	2.834e3	9.445e1	1.581e2	0.60	NO	2.526e2	0.49699	0.49699	0.224

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 Task: ST210524D2-1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.75	1.303e5	1.076e5	7.340e3	5.835e3	1.26	NO	1.317e4	25.349	25.349	0.549
2	Total Hexa-Dioxins	33.40	1.266e4	9.589e3	7.544e2	5.659e2	1.33	NO	1.320e3	2.5405	2.5405	0.549
3	Total Hexa-Dioxins	33.71	8.164e4	6.528e4	6.610e3	5.085e3	1.30	NO	1.170e4	22.503	22.503	0.549
4	Total Hexa-Dioxins	33.83	6.347e3	4.925e3	2.949e2	2.623e2	1.12	NO	5.572e2	1.0720	1.0720	0.549
5	1,2,3,4,7,8-HxCDD	34.52	2.049e3	2.013e3	1.426e2	1.322e2	1.08	NO	2.748e2	0.51561	0.51561	0.499
6	1,2,3,6,7,8-HxCDD	34.66	1.837e4	1.590e4	1.240e3	1.005e3	1.23	NO	2.245e3	4.3095	4.3095	0.544
7	Total Hexa-Dioxins	34.83	5.217e3	4.054e3	3.171e2	2.511e2	1.26	NO	5.681e2	1.0931	1.0931	0.549
8	1,2,3,7,8,9-HxCDD	34.97	6.051e3	4.772e3	4.655e2	3.965e2	1.17	NO	8.620e2	1.5075	1.5075	0.536

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.38	1.230e6	1.180e6	7.271e4	6.956e4	1.05	NO	1.423e5	253.58	253.58	0.990
2	1,2,3,4,6,7,8-HpCDD	38.32	7.785e5	7.610e5	5.528e4	5.395e4	1.02	NO	1.092e5	194.68	194.68	0.990

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Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Furans	21.94	3.047e3	2.680e3	1.894e2	1.963e2	0.96	YES	0.000e0	0.00000	0.34320	0.167
2 Total Tetra-Furans	22.44	6.645e3	7.644e3	4.665e2	6.117e2	0.76	NO	1.078e3	1.0650	1.0650	0.167
3 Total Tetra-Furans	23.13	4.415e4	5.231e4	3.067e3	3.900e3	0.79	NO	6.967e3	6.8823	6.8823	0.167
4 Total Tetra-Furans	23.42	2.471e3	3.290e3	1.743e2	2.000e2	0.87	NO	3.743e2	0.36973	0.36973	0.167
5 Total Tetra-Furans	23.51	4.938e3	6.415e3	5.533e2	7.422e2	0.75	NO	1.296e3	1.2798	1.2798	0.167
6 Total Tetra-Furans	23.85	4.475e4	5.797e4	3.122e3	4.044e3	0.77	NO	7.167e3	7.0795	7.0795	0.167
7 Total Tetra-Furans	24.22	3.318e4	4.443e4	2.404e3	3.265e3	0.74	NO	5.669e3	5.5999	5.5999	0.167
8 Total Tetra-Furans	24.52	5.070e3	7.640e3	3.730e2	5.682e2	0.66	NO	9.413e2	0.92981	0.92981	0.167
9 Total Tetra-Furans	24.83	2.339e3	2.276e3	1.279e2	1.472e2	0.87	NO	2.751e2	0.27177	0.27177	0.167
10 Total Tetra-Furans	24.92	4.021e3	4.157e3	1.966e2	2.274e2	0.86	NO	4.240e2	0.41880	0.41880	0.167
11 Total Tetra-Furans	25.15	3.512e4	4.600e4	2.687e3	3.608e3	0.74	NO	6.295e3	6.2184	6.2184	0.167
12 Total Tetra-Furans	25.35	1.034e4	1.286e4	5.961e2	8.034e2	0.74	NO	1.400e3	1.3825	1.3825	0.167
13 Total Tetra-Furans	25.52	1.316e5	1.743e5	8.186e3	1.077e4	0.76	NO	1.895e4	18.721	18.721	0.167
14 Total Tetra-Furans	25.79	6.169e3	8.408e3	4.430e2	5.631e2	0.79	NO	1.006e3	0.99386	0.99386	0.167
15 Total Tetra-Furans	26.14	2.344e3	3.445e3	1.501e2	2.432e2	0.62	YES	0.000e0	0.00000	0.34083	0.167
16 Total Tetra-Furans	26.25	1.751e4	2.229e4	9.384e2	1.220e3	0.77	NO	2.159e3	2.1323	2.1323	0.167
17 2,3,7,8-TCDF	26.37	1.529e5	1.939e5	8.712e3	1.129e4	0.77	NO	2.000e4	19.761	19.761	0.167
18 Total Tetra-Furans	26.63	7.585e3	1.133e4	5.902e2	7.427e2	0.79	NO	1.333e3	1.3167	1.3167	0.167
19 Total Tetra-Furans	26.89	2.037e3	3.227e3	1.902e2	2.411e2	0.79	NO	4.313e2	0.42602	0.42602	0.167
20 Total Tetra-Furans	27.33	1.105e4	1.439e4	5.943e2	7.158e2	0.83	NO	1.310e3	1.2942	1.2942	0.167
21 Total Tetra-Furans	27.47	1.419e4	1.866e4	8.800e2	1.072e3	0.82	NO	1.952e3	1.9279	1.9279	0.167
22 Total Tetra-Furans	27.66	8.997e3	8.608e3	4.962e2	4.774e2	1.04	YES	0.000e0	0.00000	0.83477	0.167
23 Total Tetra-Furans	27.82	1.370e4	1.017e4	6.945e2	5.247e2	1.32	YES	0.000e0	0.00000	0.91740	0.167
24 Total Tetra-Furans	28.01	1.099e4	1.536e4	6.654e2	8.124e2	0.82	NO	1.478e3	1.4598	1.4598	0.167

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1st Func. Penta-Furans	27.64	2.059e5	1.195e5	1.074e4	6.380e3	1.68	NO	1.712e4	19.693	19.693	0.0758

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Furans	28.94	9.323e3	5.804e3	6.336e2	3.535e2	1.79	YES	0.000e0	0.00000	1.0369	0.178
2	Total Penta-Furans	29.10	2.053e5	1.233e5	1.248e4	7.735e3	1.61	NO	2.021e4	23.252	23.252	0.178
3	Total Penta-Furans	29.28	2.401e3	1.881e3	1.408e2	1.282e2	1.10	YES	0.000e0	0.00000	0.26654	0.178
4	Total Penta-Furans	29.66	3.944e4	2.542e4	2.401e3	1.522e3	1.58	NO	3.923e3	4.5130	4.5130	0.178
5	Total Penta-Furans	29.80	3.468e4	2.208e4	1.524e3	1.037e3	1.47	NO	2.560e3	2.9455	2.9455	0.178
6	1,2,3,7,8-PeCDF	29.98	3.039e5	1.849e5	1.457e4	8.932e3	1.63	NO	2.351e4	26.887	26.887	0.179
7	Total Penta-Furans	30.12	1.834e4	1.291e4	9.459e2	6.198e2	1.53	NO	1.566e3	1.8010	1.8010	0.178
8	Total Penta-Furans	30.20	1.198e5	7.466e4	5.452e3	3.498e3	1.56	NO	8.950e3	10.295	10.295	0.178
9	Total Penta-Furans	30.32	3.634e3	3.095e3	2.344e2	1.827e2	1.28	YES	0.000e0	0.00000	0.44359	0.178
10	Total Penta-Furans	30.75	3.615e3	2.069e3	2.373e2	1.072e2	2.21	YES	0.000e0	0.00000	0.31442	0.178
11	2,3,4,7,8-PeCDF	30.95	1.869e5	1.178e5	1.076e4	6.644e3	1.62	NO	1.740e4	18.401	18.401	0.162
12	Total Penta-Furans	31.79	7.937e3	7.191e3	4.806e2	3.207e2	1.50	NO	8.013e2	0.92178	0.92178	0.178

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.22	3.809e4	2.567e4	1.794e3	1.304e3	1.38	NO	3.098e3	3.4573	3.4573	0.282
2	Total Hexa-Furans	32.39	1.228e5	9.849e4	6.831e3	5.292e3	1.29	NO	1.212e4	13.529	13.529	0.282
3	Total Hexa-Furans	32.81	2.928e3	1.912e3	1.659e2	1.193e2	1.39	NO	2.852e2	0.31826	0.31826	0.282
4	Total Hexa-Furans	33.05	1.816e5	1.519e5	1.012e4	8.132e3	1.24	NO	1.825e4	20.367	20.367	0.282
5	Total Hexa-Furans	33.17	3.308e3	1.735e3	1.824e2	1.353e2	1.35	NO	3.177e2	0.35454	0.35454	0.282
6	Total Hexa-Furans	33.42	5.060e3	3.775e3	2.702e2	1.961e2	1.38	NO	4.662e2	0.52037	0.52037	0.282
7	1,2,3,4,7,8-HxCDF	33.56	2.535e5	2.155e5	1.474e4	1.184e4	1.25	NO	2.658e4	31.004	31.004	0.280
8	1,2,3,6,7,8-HxCDF	33.71	7.160e4	5.400e4	4.446e3	3.436e3	1.29	NO	7.882e3	8.4548	8.4548	0.269
9	2,3,4,6,7,8-HxCDF	34.42	2.602e4	1.971e4	1.445e3	1.143e3	1.26	NO	2.588e3	2.8908	2.8908	0.262
10	Total Hexa-Furans	34.44	1.544e4	1.475e4	4.459e2	2.984e2	1.49	YES	0.000e0	0.00000	0.74598	0.282
11	1,2,3,7,8,9-HxCDF	35.55	2.740e4	2.241e4	7.404e2	6.837e2	1.08	NO	1.424e3	1.8072	1.8072	0.362
12	Total Hexa-Furans	35.56	3.103e4	2.579e4	1.514e3	1.097e3	1.38	NO	0.000e0	0.00000	2.9139	0.282

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Printed: Wednesday, June 09, 2021 15:52:55 Pacific Daylight Time

Name: 210524D2_12, Date: 25-May-2021, Time: 03:42:37, ID: 2105020-07 USMPDI-020SC-A-15-16-210429 16.6, Description: USMPDI-020SC-A-15-16-210429,
Task: ST210524D2-1

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.09	1.593e5	1.543e5	1.047e4	1.004e4	1.04	NO	2.051e4	28.711	28.711	0.310
Total Hepta-Furans	37.66	3.107e5	2.979e5	2.089e4	2.005e4	1.04	NO	4.093e4	60.716	60.716	0.364
1,2,3,4,7,8,9-HpCDF	39.09	2.557e4	2.519e4	1.942e3	1.799e3	1.08	NO	3.741e3	5.7686	5.7686	0.415

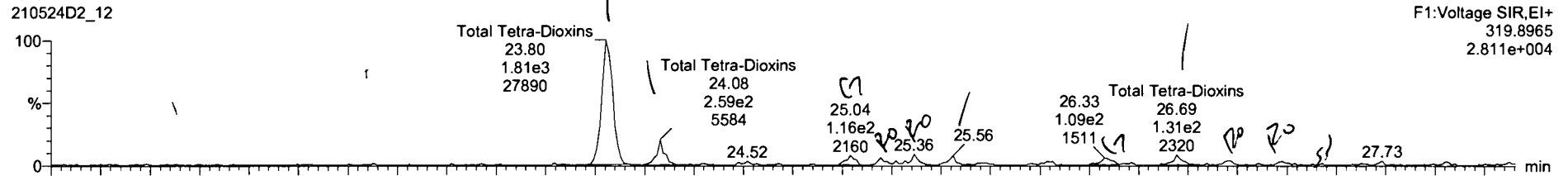
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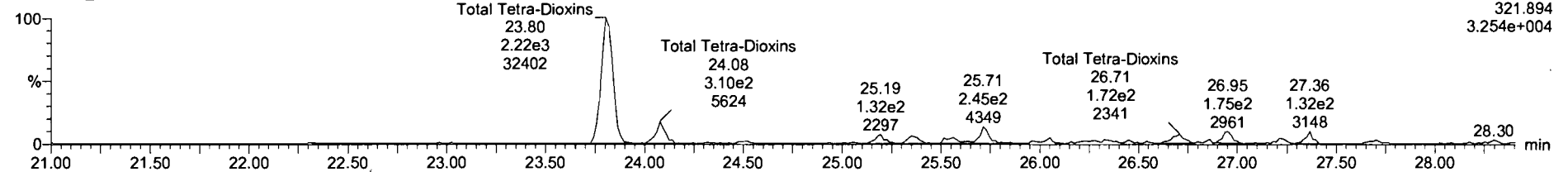
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Name: 210524D2_12, Date: 25-May-2021, Time: 03:42:37, ID: 2105020-07 USMPDI-020SC-A-15-16-210429 16.6, Description: USMPDI-020SC-A-15-16-210429

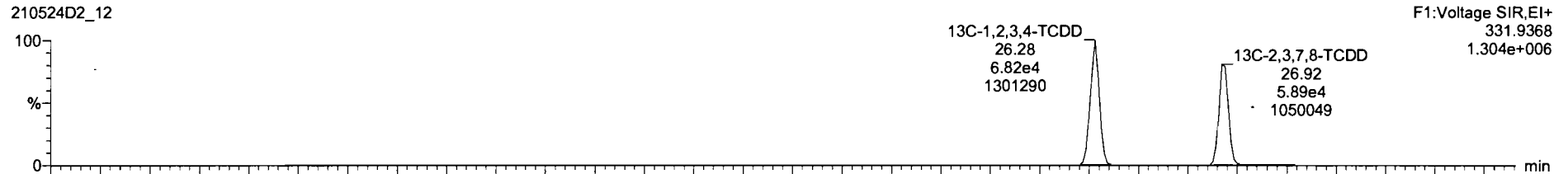
2,3,7,8-TCDD



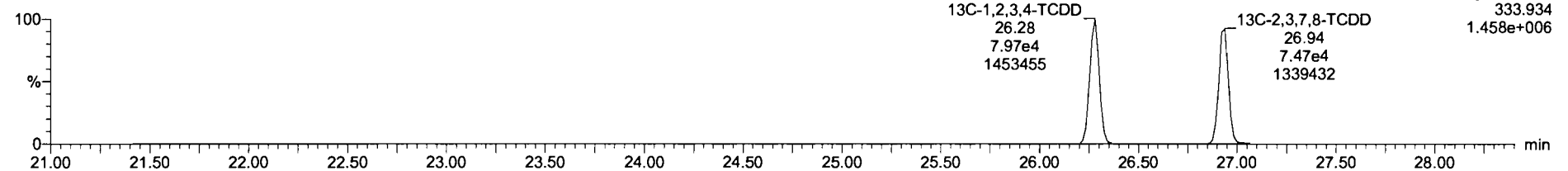
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13C-2,3,7,8-TCDD



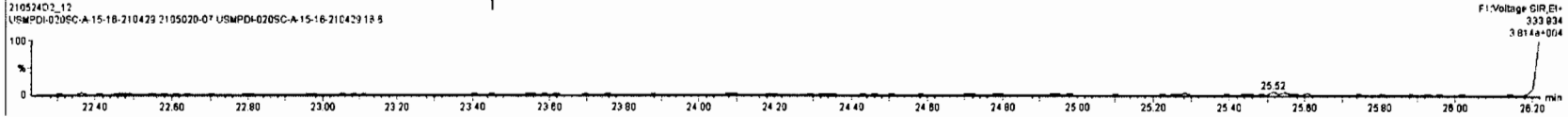
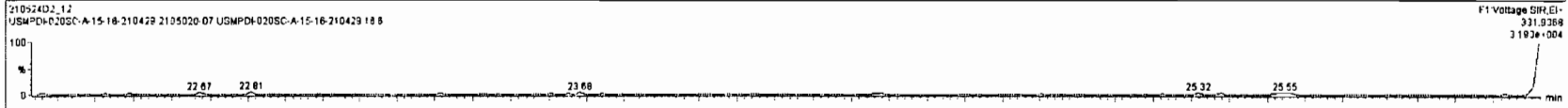
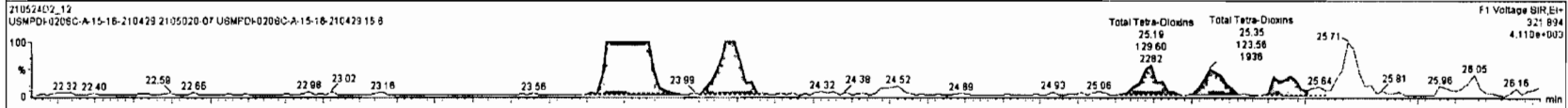
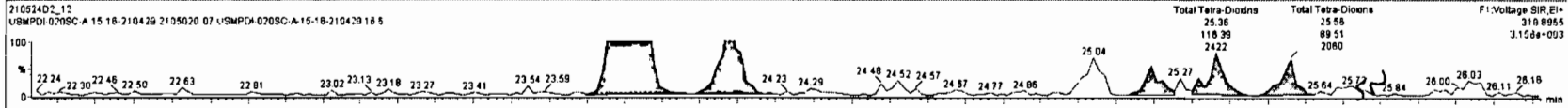
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21052402_12 - 21050207 USMPDI-020SC-A-15-16-210429 16.6 - USMPDI-020SC-A-15-16-210429

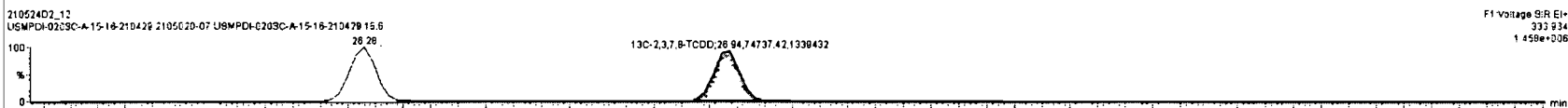
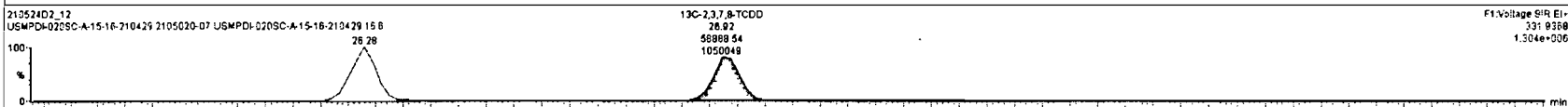
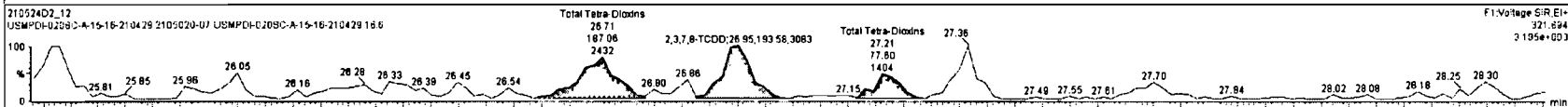
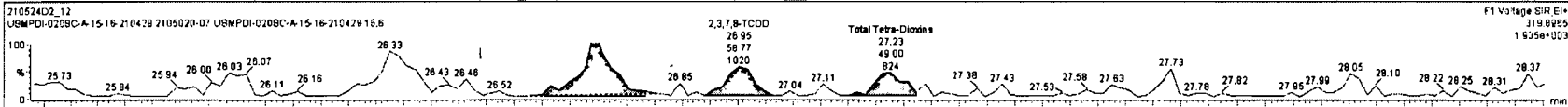
Name	Resp	RA	nly	RRF	wAval	RT	RRT	Conc	%Rec	DL	EMPC
25 13C-1,2,3,7,8-TCDF	2.31e5	0.75	NO	1.09	10.150	26.34	1.002	147	74.5	0.244	
26 13C-1,2,3,7,8-PeCDF	1.82e5	1.57	NO	0.80	10.150	29.96	1.140	150	79.4	0.513	
27 13C-1,2,3,4,7,8-PeCDF	1.80e5	1.82	NO	0.79	10.150	30.93	1.177	157	79.8	0.521	
28 13C-1,2,3,4,7,8-HxCDF	1.62e5	0.50	NO	1.80	10.150	33.55	0.988	170	86.2	0.642	
29 13C-1,2,3,6,7,8-HxCDF	1.71e5	0.50	NO	1.03	10.150	33.70	0.980	174	88.3	0.622	
30 13C-1,2,3,4,6,7,8-HxCDF	1.58e5	0.49	NO	0.94	10.150	34.38	1.011	178	89.2	0.681	
31 13C-1,2,3,7,8,9-HxCDF	1.41e5	0.48	NO	0.85	10.150	35.52	1.044	173	88.0	0.751	
32 13C-1,2,3,4,6,7,8,9-HpCDF	1.21e5	0.42	NO	0.73	10.150	37.08	1.090	175	88.8	0.656	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Dioxins	23.80	1.831e3	2.234e3	0.82	NO	5.7219	5.7219
2 Total Tetra-Dioxins	24.08	2.582e2	3.091e2	0.84	NO	0.79830	0.79830
3 Total Tetra-Dioxins	25.19	7.571e1	1.296e2	0.59	YES	0.24493	0.00000
4 Total Tetra-Dioxins	25.36	1.154e2	1.236e2	0.94	YES	0.30779	0.00000
5 Total Tetra-Dioxins	25.56	8.951e1	1.087e2	0.82	NO	0.27888	0.27888
6 Total Tetra-Dioxins	26.59	1.349e2	1.871e2	0.72	NO	0.45285	0.45285
7 2,3,7,8-TCDD	26.95	5.877e1	1.938e2	0.30	YES	0.19014	0.00000



Name	Resp	RA	n/y	R/R	wtAdj	RT	RRT	Conc	%Rec	DL	EMPC
13C-2,3,7,8-TCDF	2.31e5	0.75	NO	1.09	10.150	26.34	1.002	147	74.5	0.244	
13C-2,3,7,8-PeCDF	1.82e5	1.57	NO	0.90	10.150	26.36	1.140	156	79.4	0.513	
13C-2,3,4,7,8-PeCDF	1.89e5	1.82	NO	0.79	10.150	30.93	1.177	151	79.8	0.521	
13C-1,2,3,4,7,8-HxCDF	1.82e5	0.50	NO	1.00	10.150	33.66	0.966	170	86.2	0.642	
13C-1,2,3,6,7,8-HxCDF	1.71e5	0.50	NO	1.03	10.150	33.70	0.990	174	86.3	0.622	
13C-2,3,4,6,7,8-HxCDF	1.58e5	0.49	NO	0.94	10.150	34.36	1.011	176	89.2	0.691	
13C-1,2,3,7,8,9-HxCDF	1.41e5	0.48	NO	0.85	10.150	35.52	1.044	173	88.0	0.751	
13C-1,2,3,4,6,7,8-HpCDF	1.21e5	0.42	NO	0.73	10.150	37.08	1.090	175	88.6	0.656	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.80	1.831e3	2.234e3	0.82	NO	5.7219	5.7219
2 Total Tetra-Dioxins	24.08	2.592e2	3.081e2	0.84	NO	0.79830	0.79830
3 Total Tetra-Dioxins	25.19	7.571e1	1.296e2	0.58	YES	0.24483	0.00000
4 Total Tetra-Dioxins	25.36	1.184e2	1.236e2	0.94	YES	0.30779	0.00000
8 Total Tetra-Dioxins	25.56	8.951e1	1.087e2	0.82	NO	0.27888	0.27888
10 Total Tetra-Dioxins	26.69	1.346e2	1.871e2	0.72	NO	0.45265	0.45265
7 2,3,7,8-TCDD	26.95	5.877e1	1.936e2	0.30	YES	0.19014	0.00000
8 Total Tetra-Dioxins	27.23	4.900e1	7.760e1	0.63	YES	0.15952	0.00000

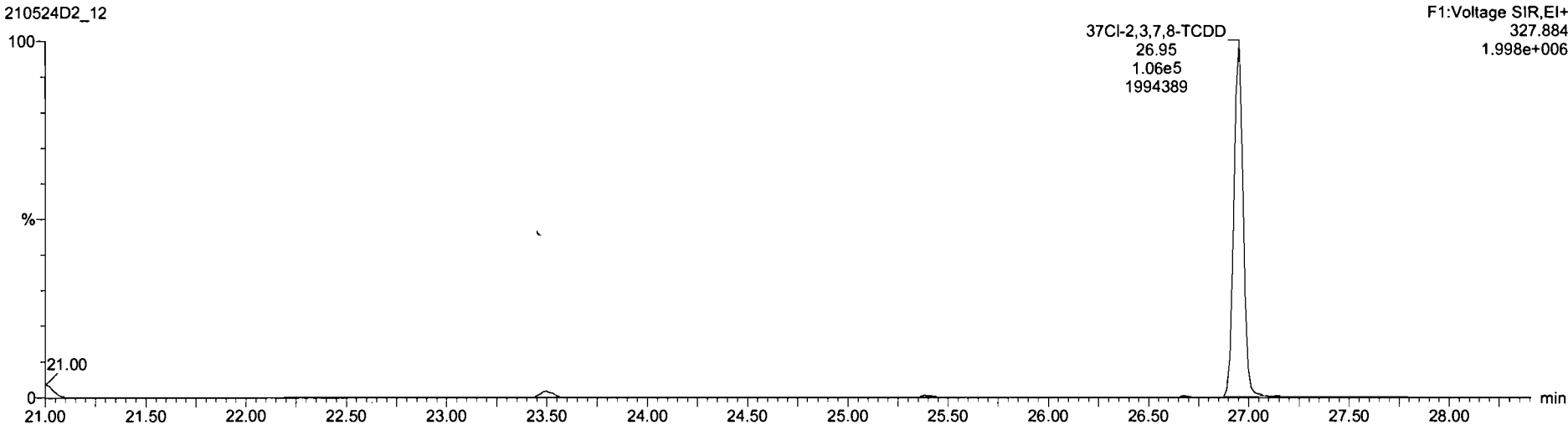


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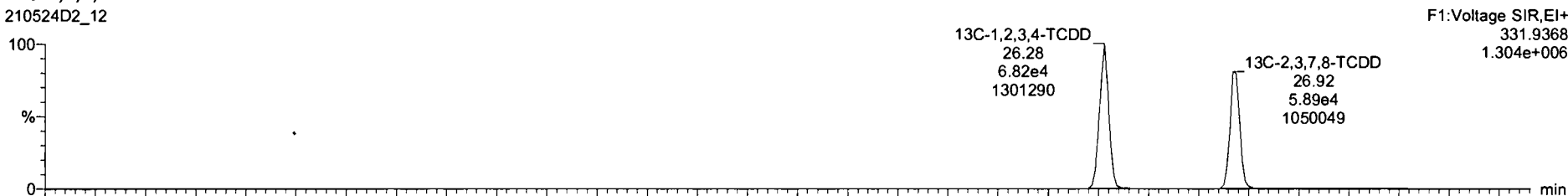
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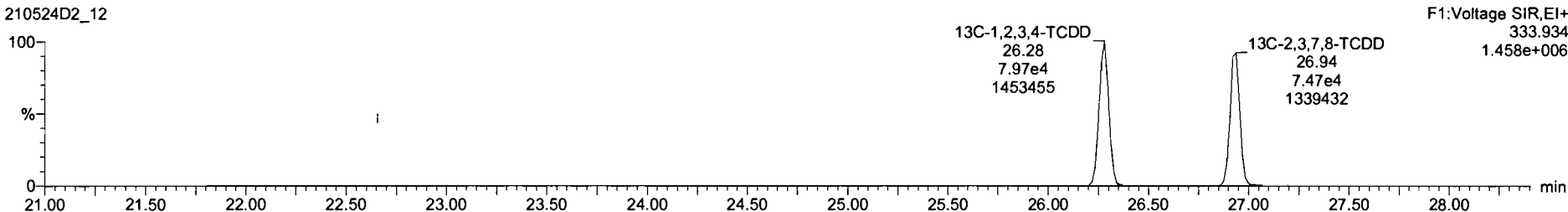
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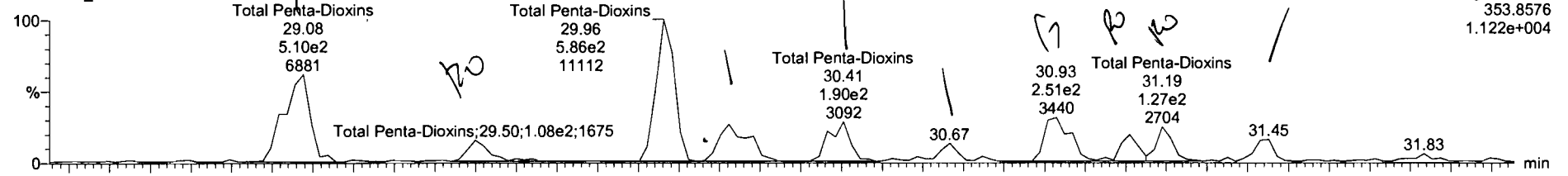
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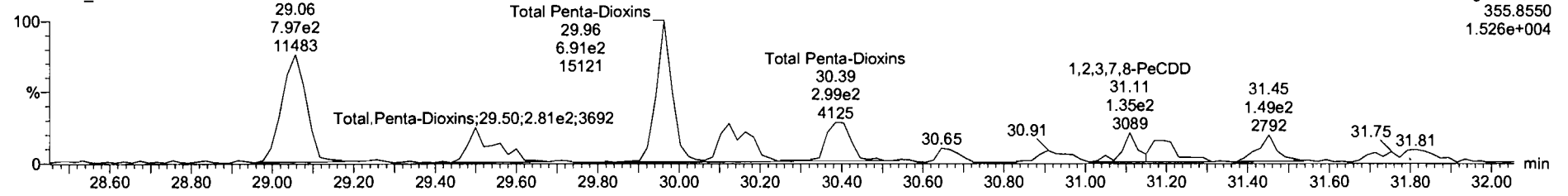
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1,2,3,7,8-PeCDD

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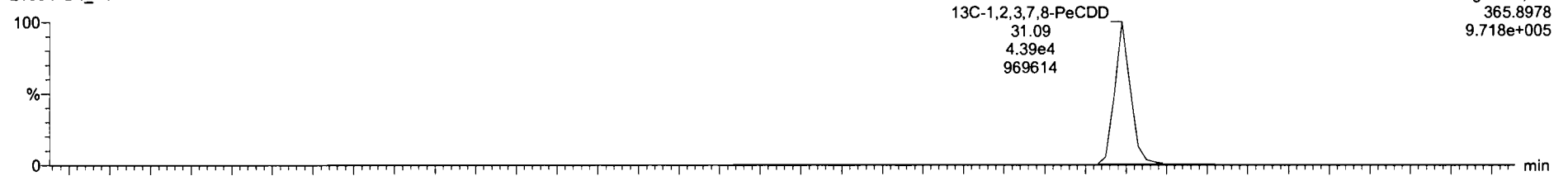


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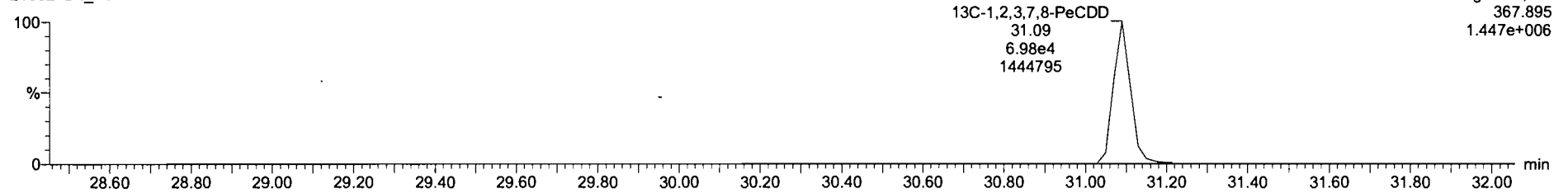


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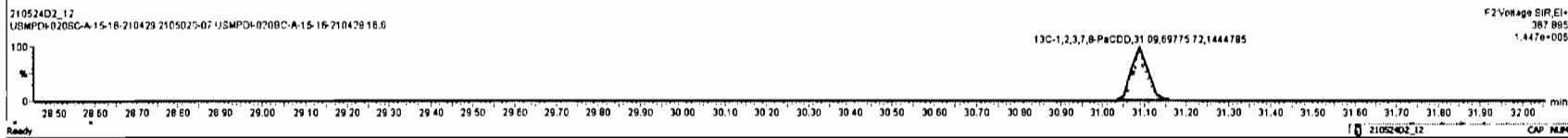
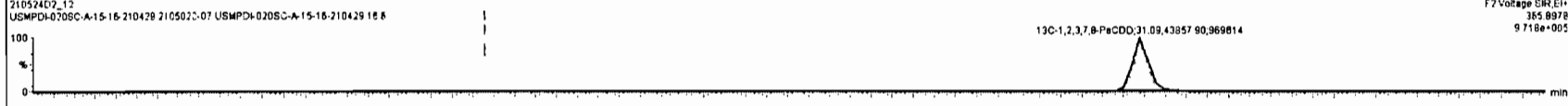
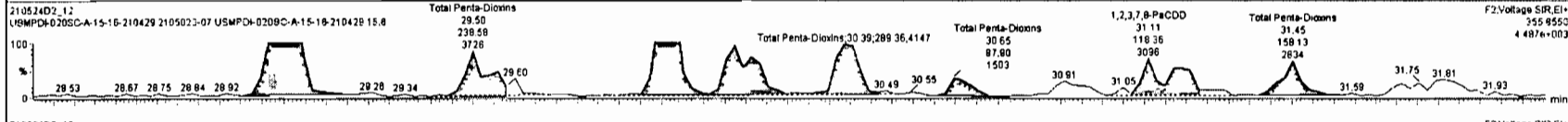
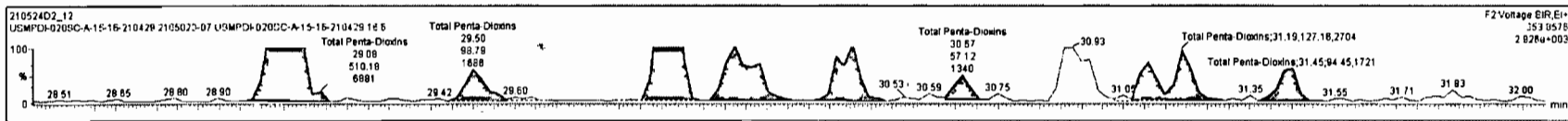


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Name	Resp	RA	n/y	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.86	10.150			5.44	0.224	8.97	
41 Total Hexa-Dioxins				1.01	10.150			56.6	0.549	58.7	
42 Total Hepta-Dioxins				1.07	10.150			448	0.930	448	
43 Total Tetra-Furans				0.86	10.150			76.5	0.167	80.8	
44 1st Func. Furans				0.95	10.150			19.7	0.0750	19.7	
45 Total Furans				0.95	10.150			89.3	0.178	89.8	
46 Total Hexa-Furans				1.12	10.150			84.9	0.262	84.9	
47 Total Hepta-Furans				1.16	10.150			95.2	0.384	95.2	

Name	RT	Int Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	29.08	5.102e2	7.972e2	0.64	NO	2.5725	2.5725
2 Total Penta-Dioxins	29.50	9.879e1	2.306e2	0.41	YES	0.90295	0.00000
3 Total Penta-Dioxins	29.86	5.827e2	6.764e2	0.86	YES	2.1694	0.00000
4 Total Penta-Dioxins	30.12	2.441e2	3.388e2	0.72	NO	1.1489	1.1489
5 Total Penta-Dioxins	30.41	1.899e2	2.894e2	0.66	NO	0.94298	0.94298
6 Total Penta-Dioxins	30.67	5.717e1	8.730e1	0.65	NO	0.28536	0.28536
7 1,2,3,7,8-PeCDD	31.11	9.936e1	1.184e2	0.84	YES	0.37960	0.00000
8 Total Penta-Dioxins	31.19	1.272e2	1.486e2	0.87	YES	0.47003	0.00000
9 Total Penta-Dioxins	31.45	9.445e1	1.581e2	0.60	NO	0.49899	0.49899



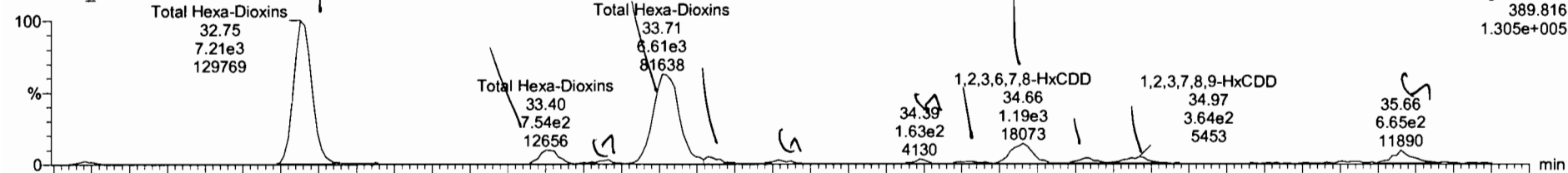
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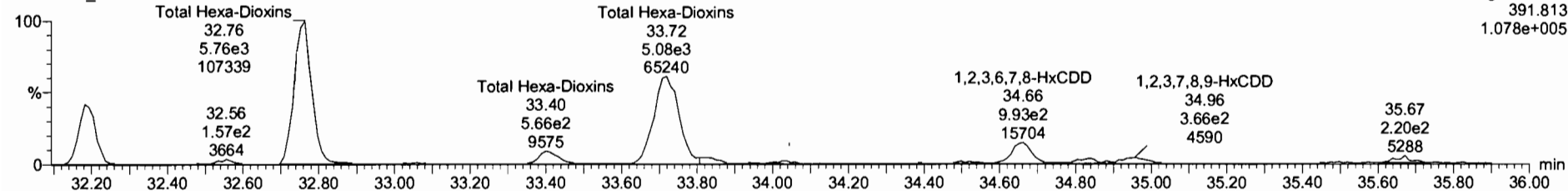
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1,2,3,4,7,8-HxCDD

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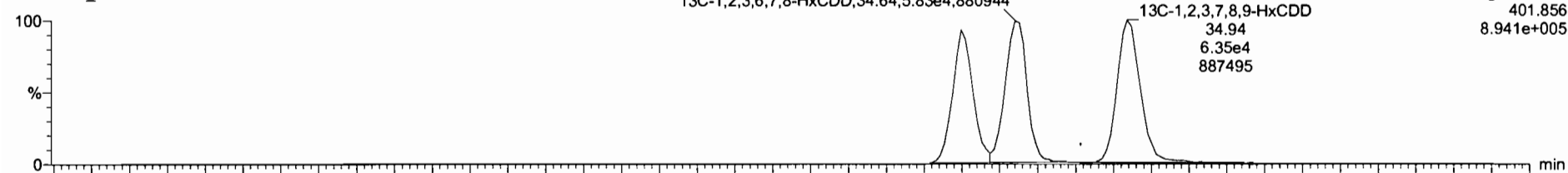


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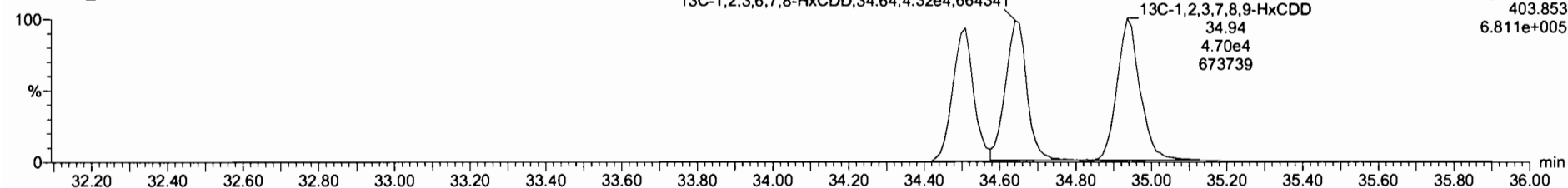


13C-1,2,3,4,7,8-HxCDD

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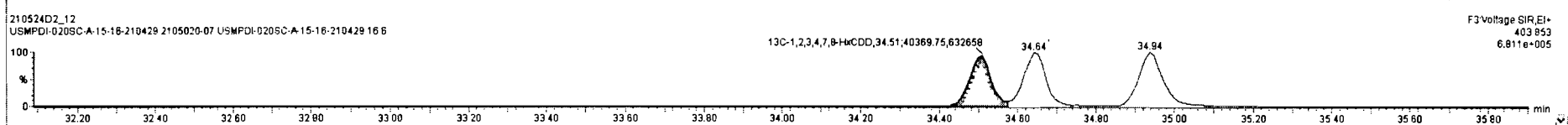
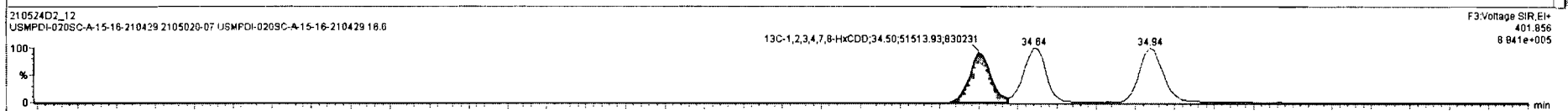
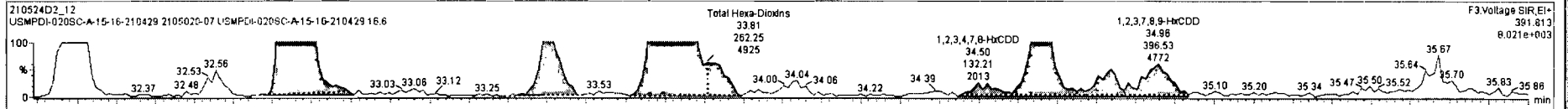
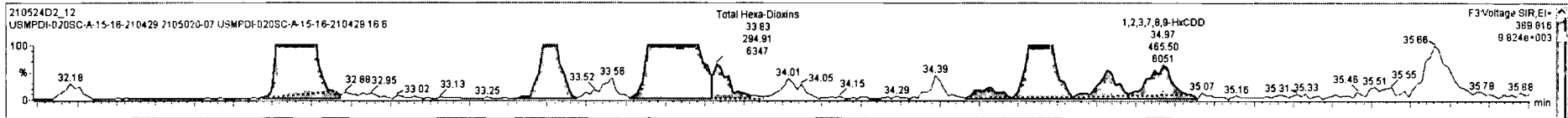


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Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
27 13C-2,3,4,7,8-PeCDF	1.80e5	1.62	NO	0.79	10.150	30.93	1.177	157	79.8	0.521	
28 13C-1,2,3,4,7,8-HxCDF	1.62e5	0.50	NO	1.00	10.150	33.65	0.996	170	86.2	0.642	
29 13C-1,2,3,6,7,8-HxCDF	1.71e5	0.50	NO	1.03	10.150	33.70	0.990	174	88.3	0.672	
30 13C-2,3,4,6,7,8-HxCDF	1.58e5	0.49	NO	0.94	10.150	34.39	1.011	176	89.2	0.681	
31 13C-1,2,3,7,8,9-HxCDF	1.41e5	0.48	NO	0.85	10.150	35.62	1.044	173	88.0	0.751	
32 13C-1,2,3,4,6,7,8-HpCDF	1.21e5	0.42	NO	0.73	10.150	37.08	1.050	175	88.6	0.656	
33 13C-1,2,3,4,7,8,9-HpCDF	1.06e5	0.40	NO	0.61	10.150	39.07	1.148	185	94.0	0.784	
34 13C-OCDF	2.07e5	0.85	NO	0.63	10.150	42.35	1.244	344	87.3	0.612	

Name	RT	Int Resp	Int2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Dioxins	32.75	7.340e3	5.835e3	1.26	NO	25.349	25.349
2 Total Hexa-Dioxins	33.40	7.544e2	5.859e2	1.33	NO	2.5405	2.5405
3 Total Hexa-Dioxins	33.71	6.610e3	5.085e3	1.30	NO	22.503	22.503
4 Total Hexa-Dioxins	33.83	2.949e2	2.623e2	1.12	NO	1.0720	1.0720
5 1,2,3,4,7,8-HxCDD	34.52	1.426e2	1.322e2	1.06	NO	0.51561	0.51561
6 1,2,3,6,7,8-HxCDD	34.66	1.240e3	1.005e3	1.23	NO	4.3095	4.3095
7 Total Hexa-Dioxins	34.83	3.171e2	2.511e2	1.26	NO	1.0931	1.0931
8 1,2,3,7,8,9-HxCDD	34.97	4.655e2	3.965e2	1.17	NO	1.5075	1.5075



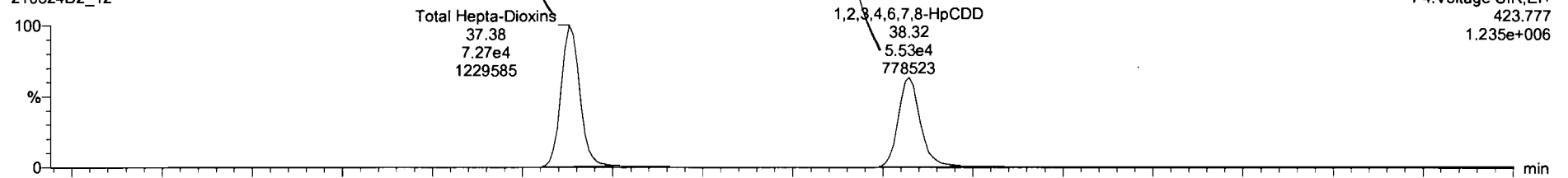
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Printed: Wednesday, May 26, 2021 12:12:15 Pacific Daylight Time

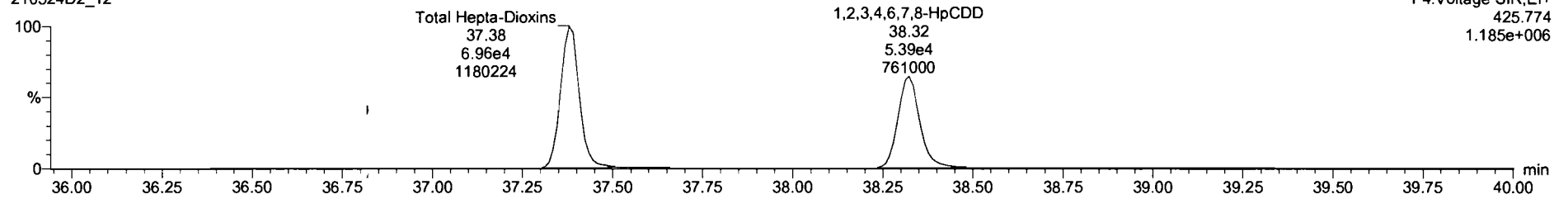
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1,2,3,4,6,7,8-HpCDD

210524D2_12

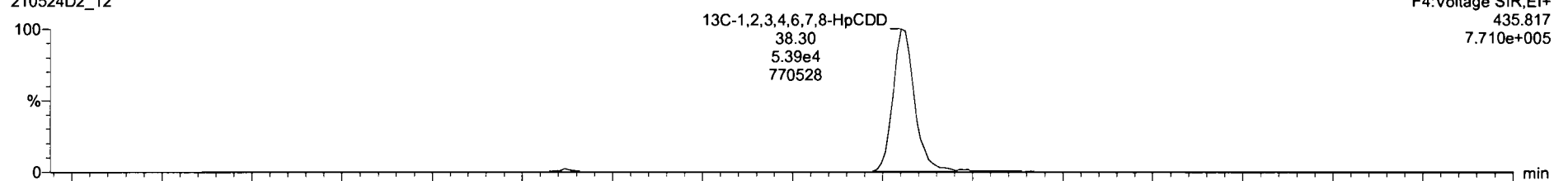


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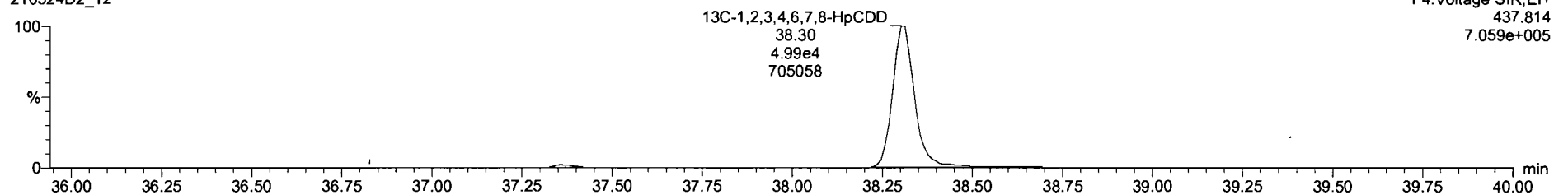


13C-1,2,3,4,6,7,8-HpCDD

210524D2_12



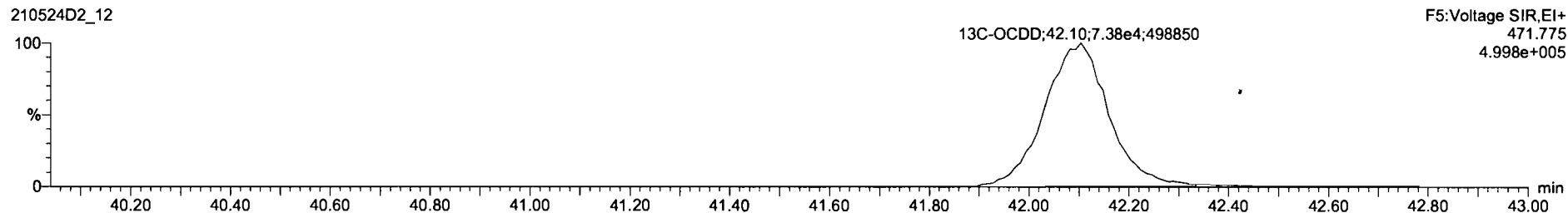
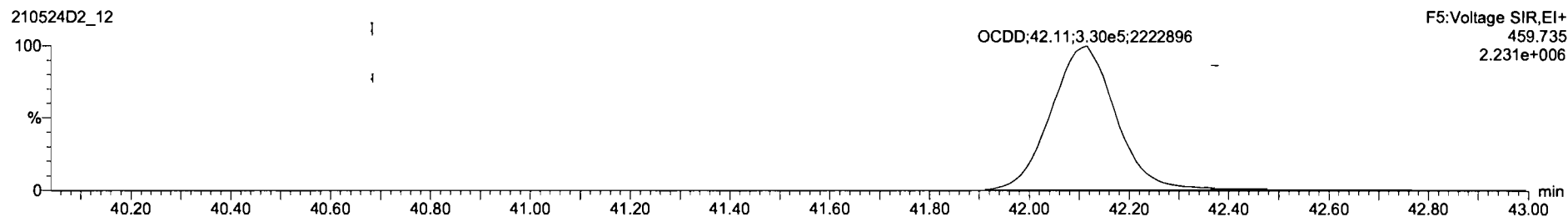
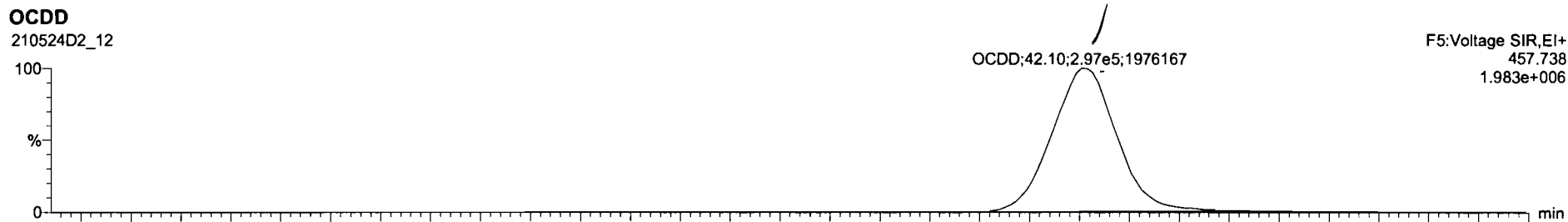
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Name: 210524D2_12, Date: 25-May-2021, Time: 03:42:37, ID: 2105020-07 USMPDI-020SC-A-15-16-210429 16.6, Description: USMPDI-020SC-A-15-16-210429



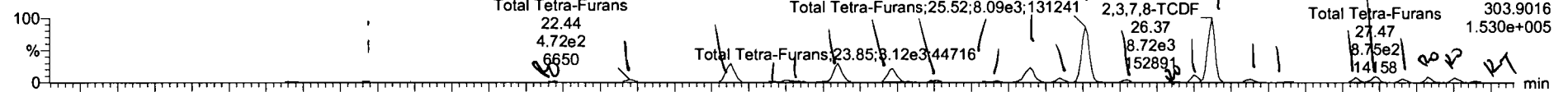
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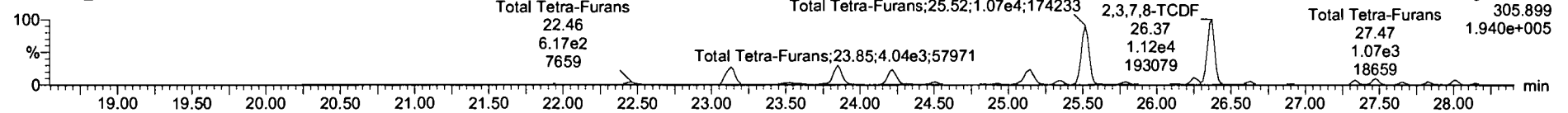
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2,3,7,8-TCDF

210524D2_12

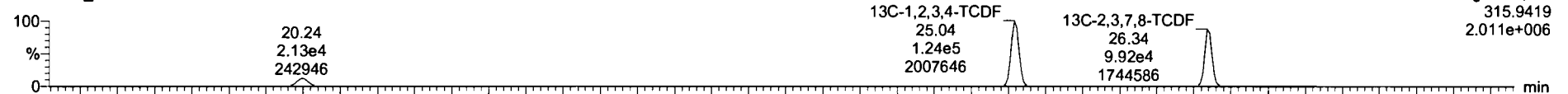


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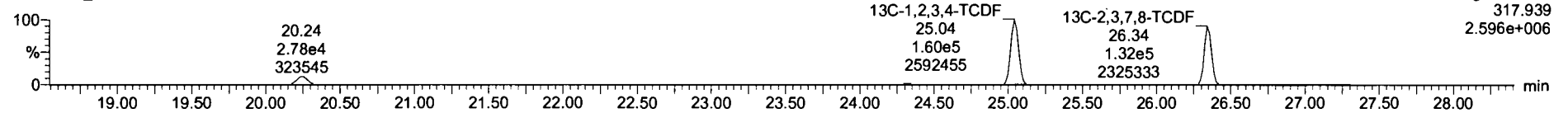


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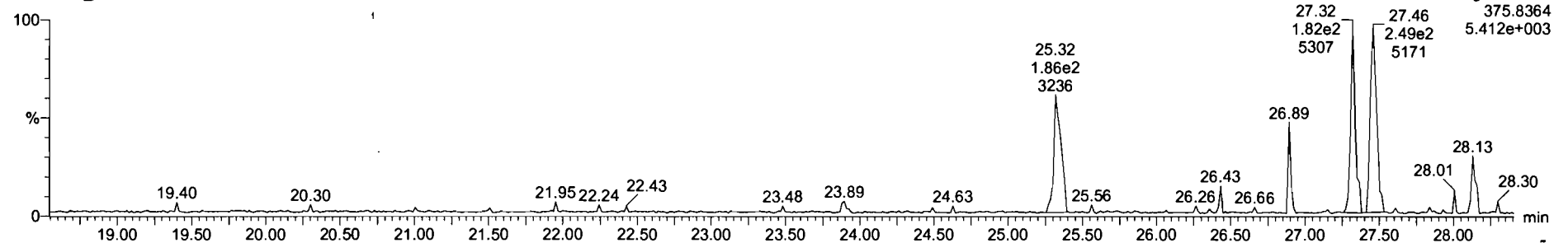


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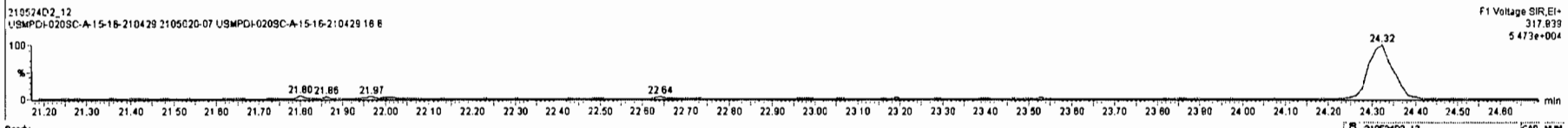
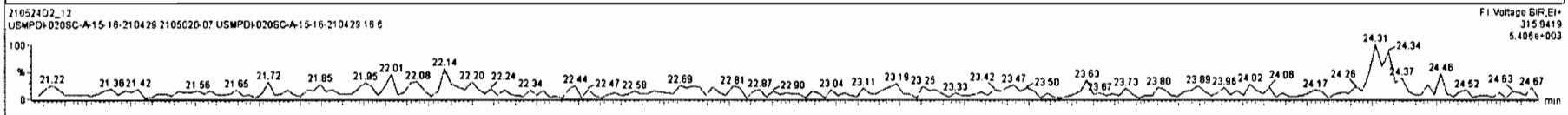
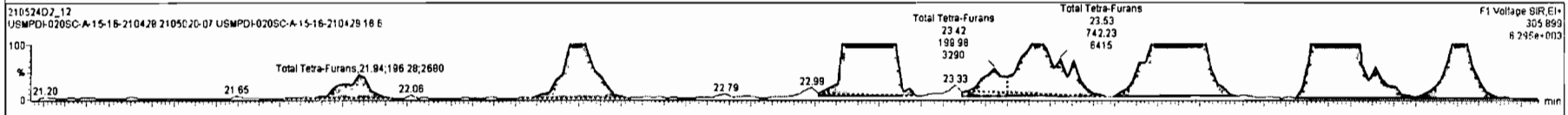
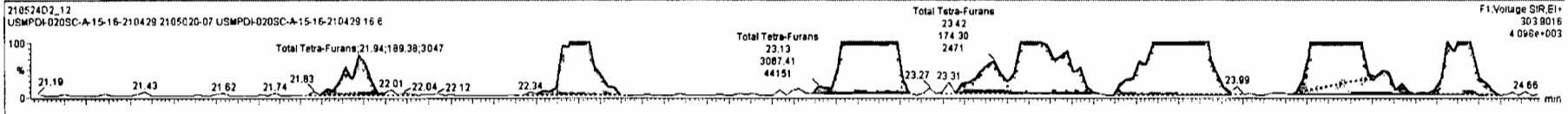
DPE1

210524D2_12



Name	Resp	RA	n/y	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Chlorine				1.07	10.150			446		0.990	446
43 Total Tetra-Furans				0.86	10.150			78.2		0.187	82.0
44 1st Func. Penta-Furans				0.95	10.150			19.7		0.0758	19.7
45 Total Penta-Furans				0.95	10.150			86.3		0.178	89.8
46 Total Hepta-Furans				1.12	10.150			84.9		0.282	84.9
47 Total Hepta-Furans				1.16	10.150			95.2		0.364	95.2
48 PFK1											
49 PFK2											

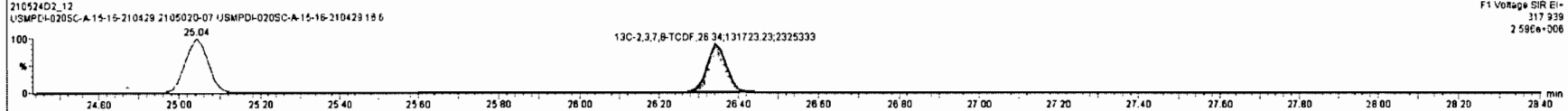
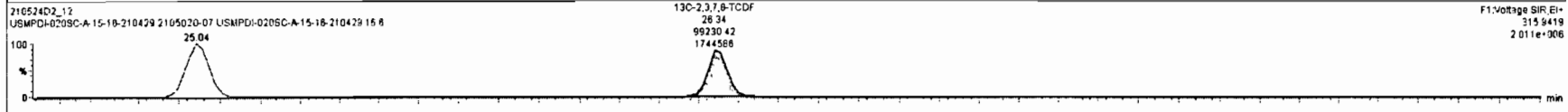
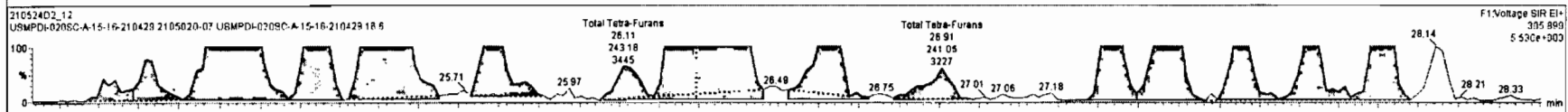
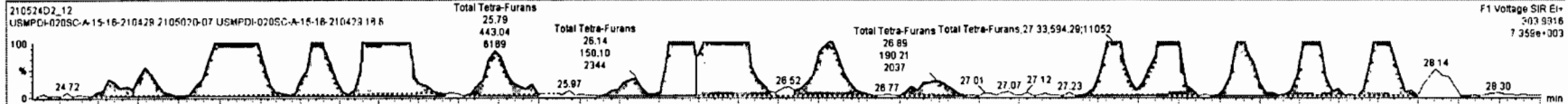
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.94	1.894e2	1.953e2	0.96	YES	0.34320	0.00000
2 Total Tetra-Furans	22.44	4.665e2	6.117e2	0.76	NO	1.0650	1.0650
3 Total Tetra-Furans	23.13	3.067e3	3.900e3	0.79	NO	6.8823	6.8823
4 Total Tetra-Furans	23.42	1.743e2	2.000e2	0.87	NO	0.36973	0.36973
5 Total Tetra-Furans	23.51	5.533e2	7.422e2	0.75	NO	1.2798	1.2798
6 Total Tetra-Furans	23.85	3.122e3	4.044e3	0.77	NO	7.0795	7.0795
7 Total Tetra-Furans	24.22	2.404e3	3.285e3	0.74	NO	5.5909	5.5909
8 Total Tetra-Furans	24.52	3.730e2	5.682e2	0.66	NO	0.92981	0.92981
9 Total Tetra-Furans	24.83	1.279e2	1.472e2	0.87	NO	0.27177	0.27177



210524D2_12 - 2105020-07 USMPDI-020SC-A-15-16-210429 15 6 - USMPDI-020SC-A-15-16-210429

Name	Resp	RA	rvy	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Furans	1.07	10.150		448				0.990	448		
43 Total Tetra-Furans			0.86	10.150				79.5	0.187	82.0	
44 1st Func. Penta-Furans	0.95	10.150		19.7				0.0758	19.7		
45 Total Penta-Furans	0.95	10.150		80.3				0.178	89.8		
46 Total Hexa-Furans	1.12	10.150		84.9				0.282	84.9		
47 Total Hepta-Furans	1.18	10.150		95.2				0.364	95.2		
48 PFK1											
49 PFK2											

Name	RT (min)	mt Resp	ng Resp	RA	rvy	EMPC	Conc.
1 Total Tetra-Furans	21.94	1.864e2	1.963e2	0.95	YES	0.34320	0.00000
2 Total Tetra-Furans	22.44	4.685e2	6.117e2	0.78	NO	1.0850	1.0650
3 Total Tetra-Furans	23.13	3.067e3	3.908e3	0.79	NO	6.8823	8.8823
4 Total Tetra-Furans	23.42	1.743e2	2.000e2	0.87	NO	0.36573	0.36573
5 Total Tetra-Furans	23.51	5.533e2	7.422e2	0.75	NO	1.2798	1.2798
6 Total Tetra-Furans	23.85	3.122e3	4.044e3	0.77	NO	7.0795	7.0795
7 Total Tetra-Furans	24.22	2.404e3	3.265e3	0.74	NO	5.5999	5.5999
8 Total Tetra-Furans	24.42	3.730e2	5.682e2	0.66	NO	0.82981	0.82981
9 Total Tetra-Furans	24.83	1.279e2	1.472e2	0.87	NO	0.27177	0.27177



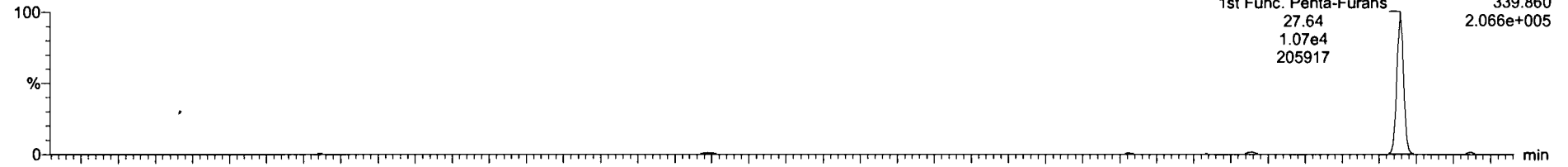
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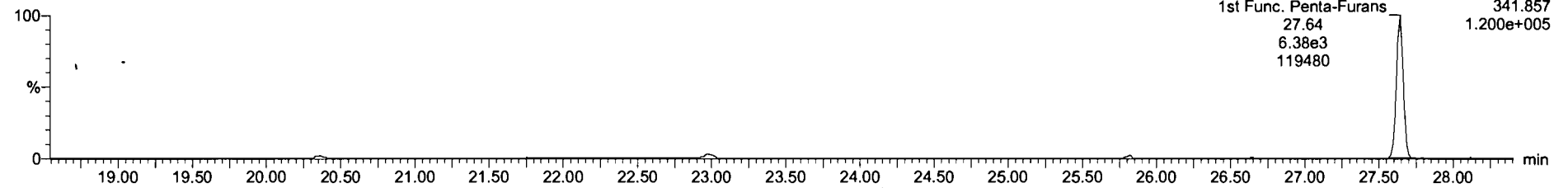
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1st Func. Penta-Furans

210524D2_12

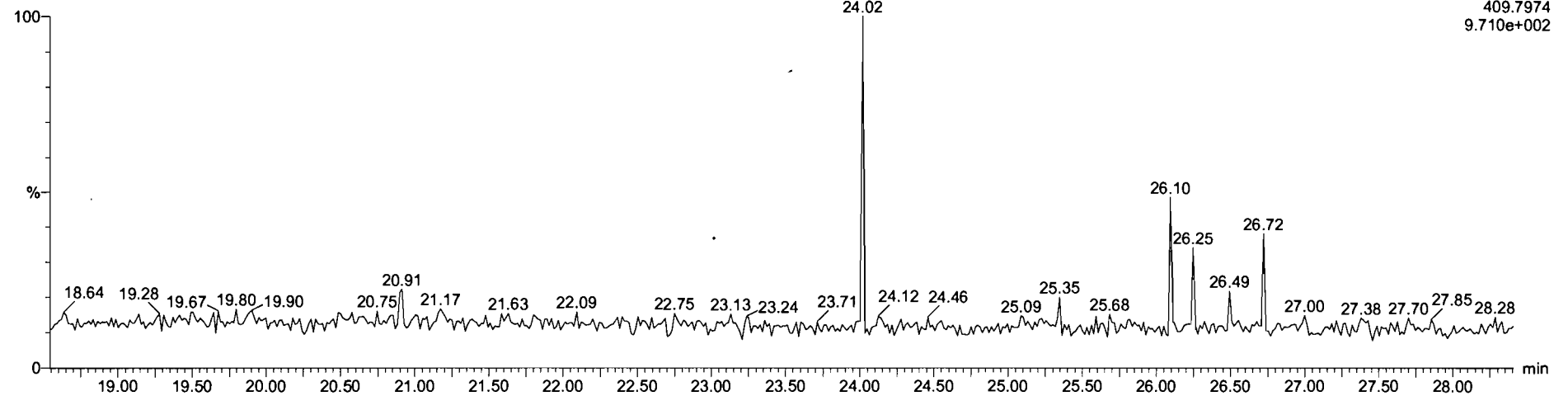


210524D2_12



DPE6

210524D2_12



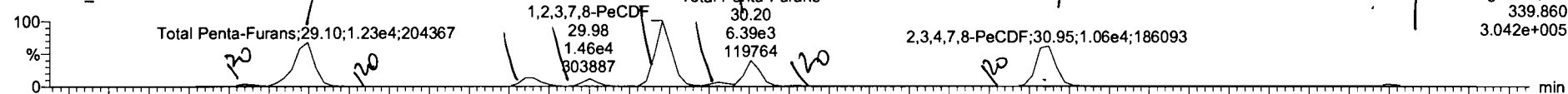
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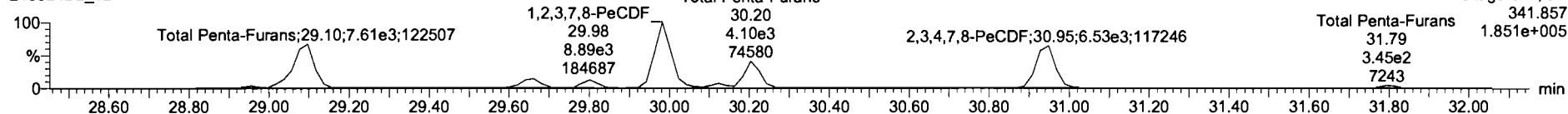
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1,2,3,7,8-PeCDF

210524D2_12



210524D2_12

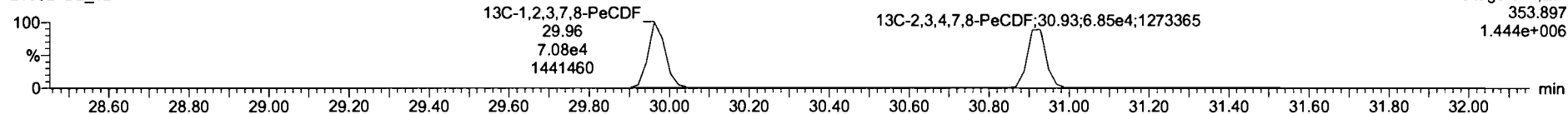


13C-1,2,3,7,8-PeCDF

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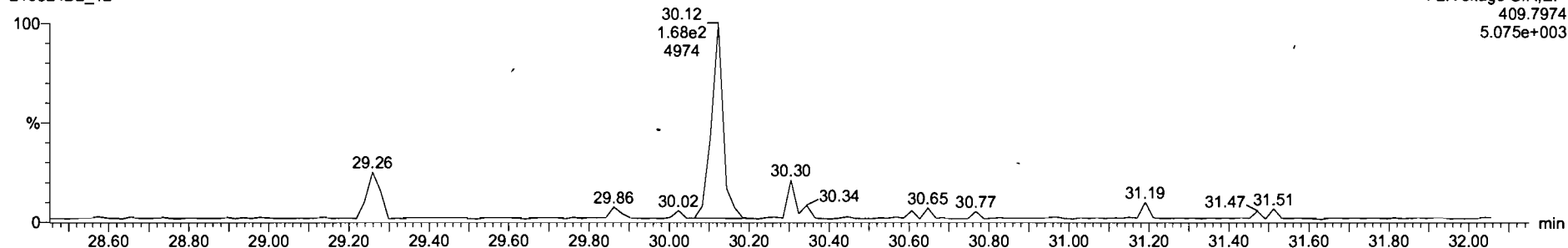


210524D2_12



DPE2

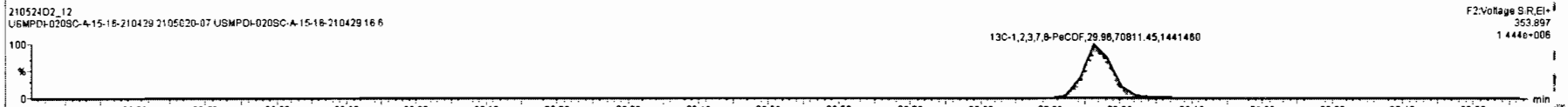
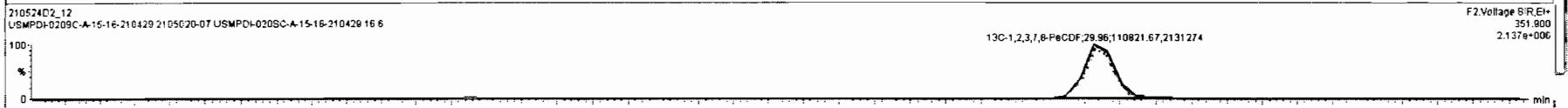
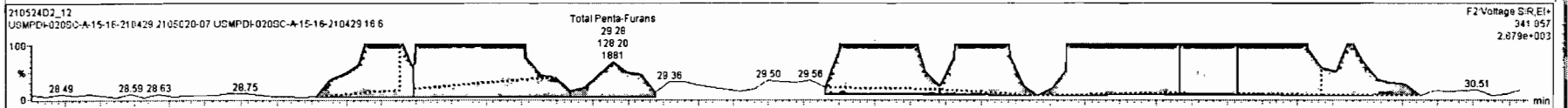
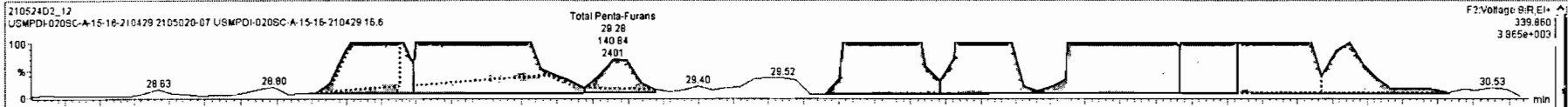
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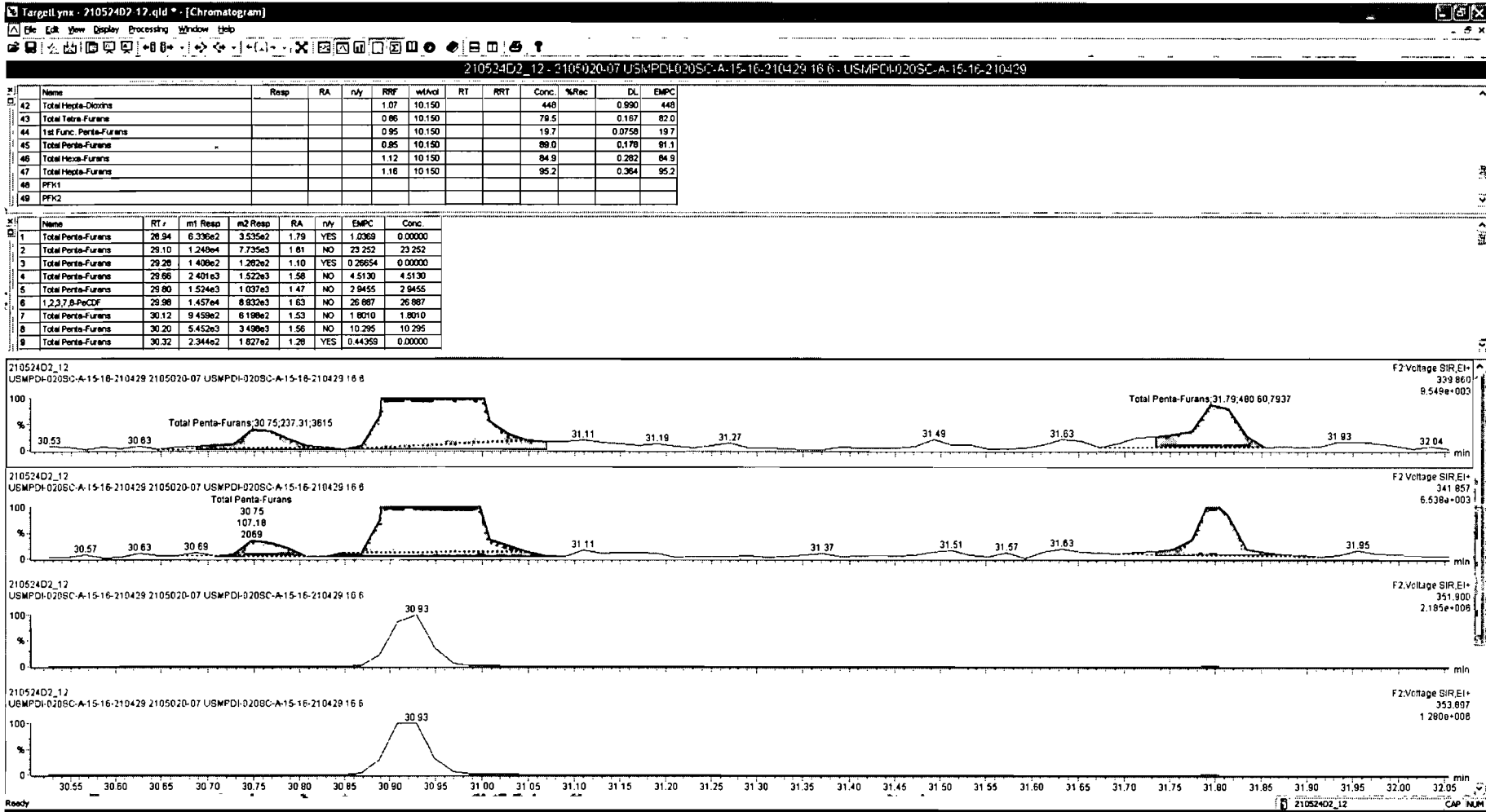


21052402_12 - 2105020-07 USMPDI-0205 - A-15-16-210429 16.6 - USMPDI-0205C-A-15-16-210429

Name	Resp	RA	n/y	RRF	WtVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.150			448	0.990	448	
43 Total Tetra-Furans				0.86	10.150			79.5	0.167	82.0	
44 1st Func. Penta-Furans				0.95	10.150			19.7	0.0758	19.7	
45 Total Penta-Furans				0.85	10.150			89.0	0.178	91.1	
46 Total Hexa-Furans				1.12	10.150			84.9	0.282	84.9	
47 Total Hepta-Furans				1.16	10.150			95.2	0.364	95.2	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.94	6.336e2	3.535e2	1.79	YES	1.0369	0.00000
2 Total Penta-Furans	29.10	1.248e4	7.735e3	1.51	NO	23.252	23.252
3 Total Penta-Furans	29.28	1.409e2	1.282e2	1.10	YES	0.26654	0.00000
4 Total Penta-Furans	29.88	2.401e3	1.522e3	1.56	NO	4.5130	4.5130
5 Total Penta-Furans	29.80	1.524e3	1.037e3	1.47	NO	2.9455	2.9455
6 1,2,3,7,8-PeCDF	29.98	1.457e4	8.932e3	1.63	NO	26.887	26.887
7 Total Penta-Furans	30.12	9.459e2	6.198e2	1.53	NO	1.8010	1.8010
8 Total Penta-Furans	30.20	5.452e3	3.498e3	1.56	NO	10.295	10.295
9 Total Penta-Furans	30.32	2.344e2	1.827e2	1.28	YES	0.44359	0.00000





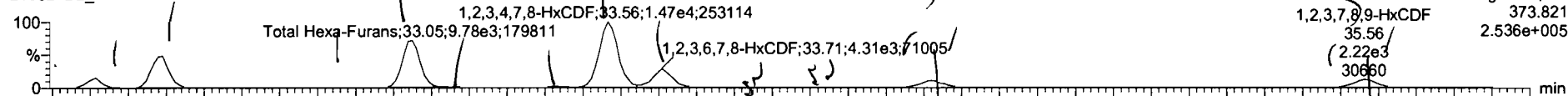
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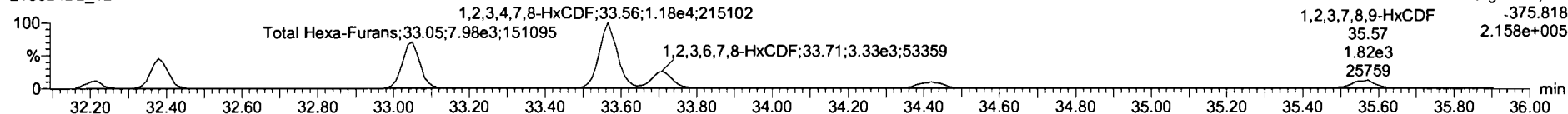
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1,2,3,4,7,8-HxCDF

210524D2_12

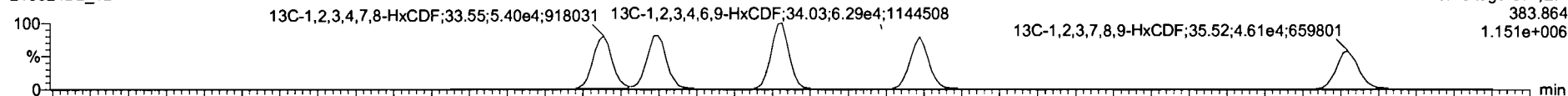


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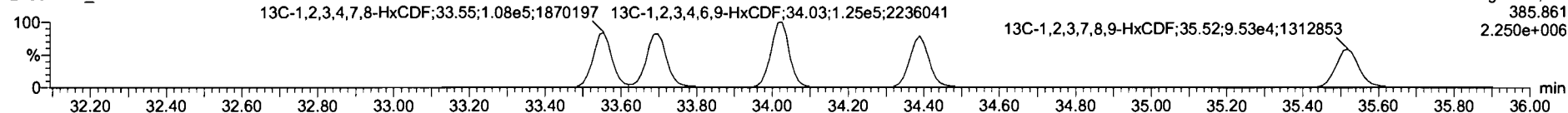


13C-1,2,3,4,7,8-HxCDF

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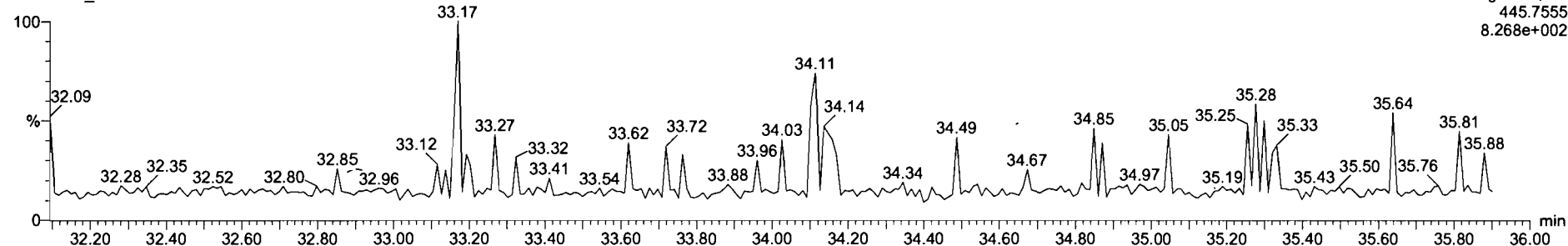


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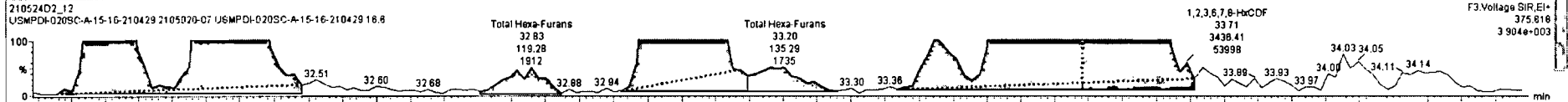
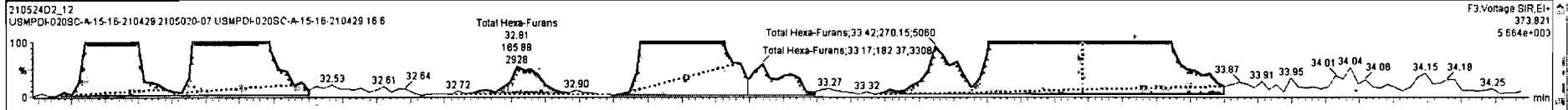
DPE3

210524D2_12



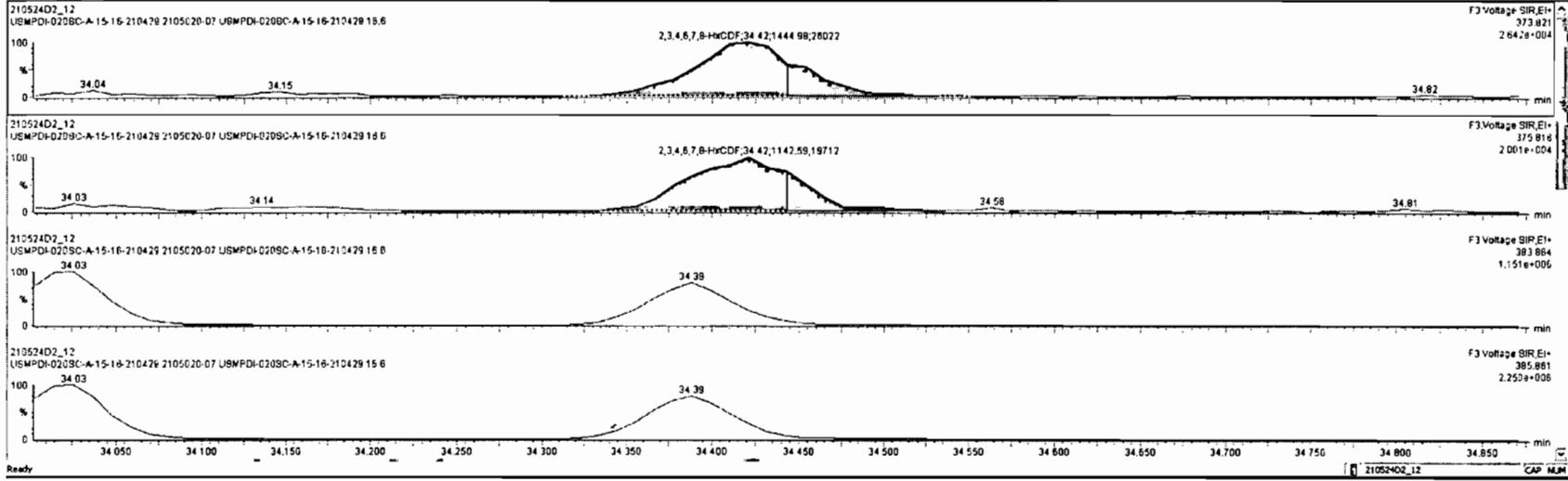
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10 150			448	0.990	448	
43 Total Tetra-Furans				0.96	10 150			79.5	0.167	820	
44 1st Func. Penta-Furans				0.95	10 150			19.7	0.0758	197	
45 Total Penta-Furans				0.95	10 150			89.0	0.178	91.1	
46 Total Hexa-Furans				1.12	10 150			82.7	0.282	86.4	
47 Total Hepta-Furans				1.16	10 150			95.2	0.364	95.2	
48 PFK1											
49 PFK2											

Name	RT / 1	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.22	1.79463	1.30463	1.38	NO	3.4573	3.4573
2 Total Hexa-Furans	32.36	6.83163	5.29263	1.29	NO	13.529	13.529
3 Total Hexa-Furans	32.81	1.65962	1.19362	1.39	NO	0.31826	0.31826
4 Total Hexa-Furans	33.05	1.01264	8.13263	1.24	NO	20.367	20.367
5 Total Hexa-Furans	33.17	1.82462	1.35362	1.35	NO	0.35454	0.35454
6 Total Hexa-Furans	33.42	2.70262	1.96162	1.38	NO	0.52037	0.52037
7 1,2,3,4,7,8-HxCDF	33.56	1.47464	1.18464	1.25	NO	31.004	31.004
8 1,2,3,6,7,8-HxCDF	33.71	4.44863	3.43663	1.29	NO	8.4548	8.4548
9 2,3,4,6,7,8-HxCDF	34.42	1.44563	1.14363	1.26	NO	2.8908	2.8908



Name	Resp	RA	n/y	RPF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Chlorins				1.07	10.150			448	0.990	448	
43 Total Tetra-Furans				0.86	10.150			79.5	0.167	82.0	
44 1st Func. Penta-Furans				0.95	10.150			19.7	0.0758	19.7	
45 Total Penta-Furans				0.95	10.150			89.0	0.178	91.1	
46 Total Hexa-Furans				1.12	10.150			82.7	0.282	86.4	
47 Total Hepta-Furans				1.18	10.150			95.2	0.364	95.2	
48 PPK1											
49 PPK2											

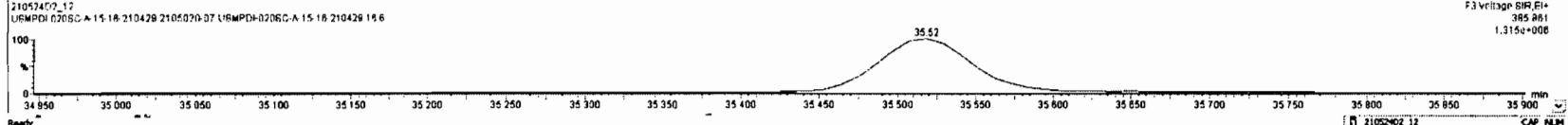
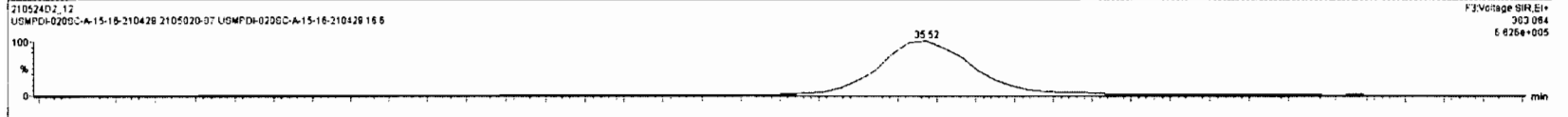
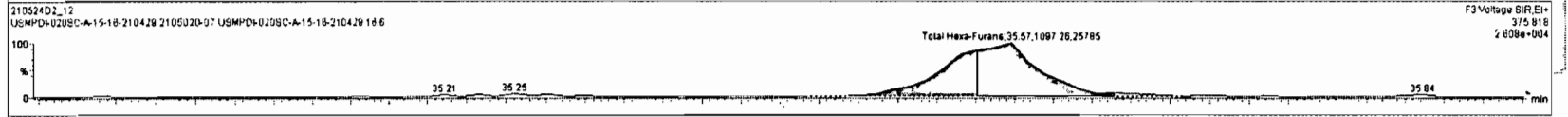
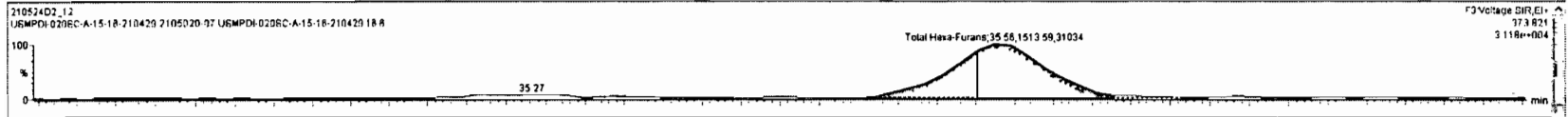
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	1.794e3	1.304e3	1.38	NO	3.4573	3.4573
2 Total Hexa-Furans	32.39	8.871e3	5.292e3	1.29	NO	13.529	13.529
3 Total Hexa-Furans	32.81	1.659e2	1.193e2	1.39	NO	0.31826	0.31826
4 Total Hexa-Furans	33.05	1.012e4	8.132e3	1.24	NO	20.387	20.387
5 Total Hexa-Furans	33.17	1.824e2	1.353e2	1.35	NO	0.35454	0.35454
6 Total Hexa-Furans	33.42	2.702e2	1.961e2	1.38	NO	0.52037	0.52037
7 1,2,3,4,7,8-HxCDF	33.56	1.474e4	1.188e4	1.25	NO	31.004	31.004
8 1,2,3,6,7,8-HxCDF	33.71	4.445e3	3.435e3	1.29	NO	8.4548	8.4548
9 2,3,4,6,7,8-HxCDF	34.42	1.445e3	1.143e3	1.26	NO	2.8808	2.8808



21052402_12 - 2105020-07 USMPC-A-15-18-210429 18.6 - USMPC-A-15-18-210429

Name	Resp	RA	nly	RRF	wtAvr	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.150			448	0.990	448	
43 Total Tetra-Furans				0.86	10.150			79.9	0.187	82.0	
44 1st Func. Penta-Furans				0.95	10.150			18.7	0.0758	19.7	
45 Total Penta-Furans				0.95	10.150			89.0	0.178	91.1	
46 Total Hexa-Furans				1.12	10.150			82.7	0.282	86.4	
47 Total Hepta-Furans				1.16	10.150			95.2	0.364	95.2	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
4 Total Hexa-Furans	33.05	1.012e4	8.132e3	1.24	NO	20.367	20.367
5 Total Hexa-Furans	33.17	1.924e2	1.352e2	1.35	NO	0.36554	0.36554
6 Total Hexa-Furans	33.42	2.702e2	1.901e2	1.38	NO	0.52037	0.52037
7 1,2,3,4,7,8-HxCDF	33.58	1.474e4	1.184e4	1.25	NO	31.004	31.004
8 1,2,3,6,7,8-HxCDF	33.71	4.446e3	3.436e3	1.28	NO	8.4548	8.4548
9 2,3,4,6,7,8-HxCDF	34.42	1.445e3	1.143e3	1.26	NO	2.8909	2.8909
10 Total Hexa-Furans	34.44	4.458e2	2.984e2	1.40	YES	0.74598	0.00000
11 1,2,3,7,8,9-HxCDF	35.95	7.404e2	6.837e2	1.08	NO	1.8072	1.8072
12 Total Hexa-Furans	35.98	1.514e3	1.067e3	1.38	NO	2.9139	0.00000



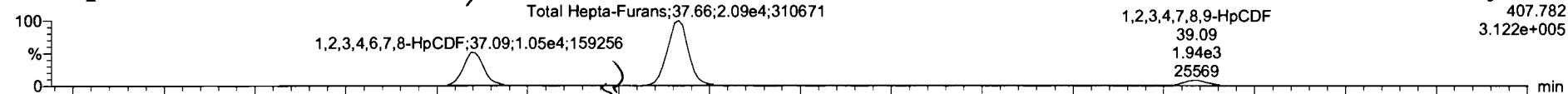
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Printed: Wednesday, May 26, 2021 12:12:15 Pacific Daylight Time

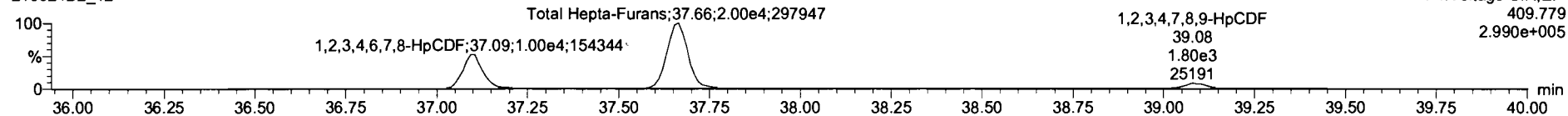
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1,2,3,4,6,7,8-HpCDF

210524D2_12

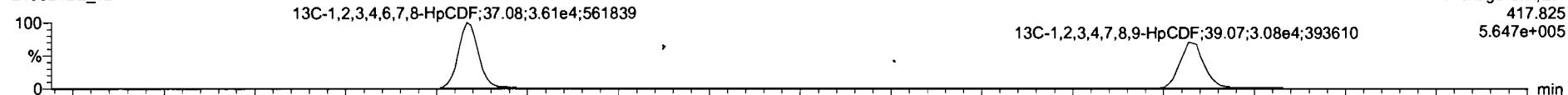


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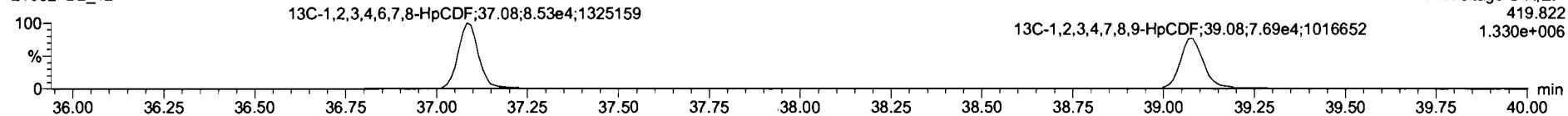


13C-1,2,3,4,6,7,8-HpCDF

210524D2_12

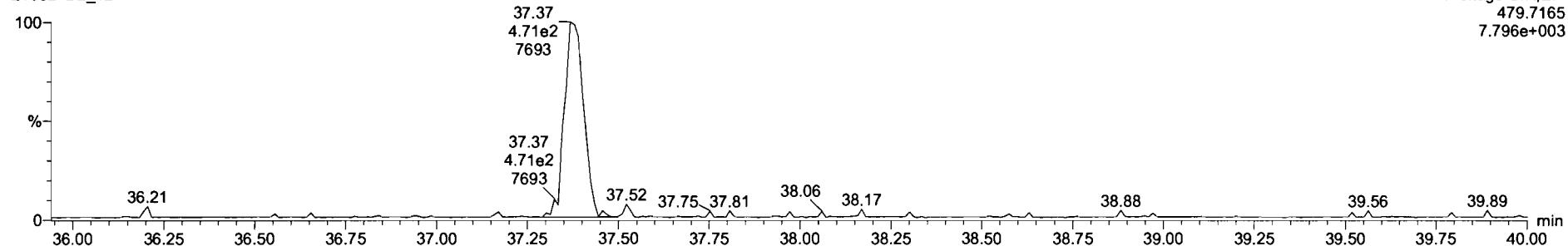


210524D2_12



DPE4

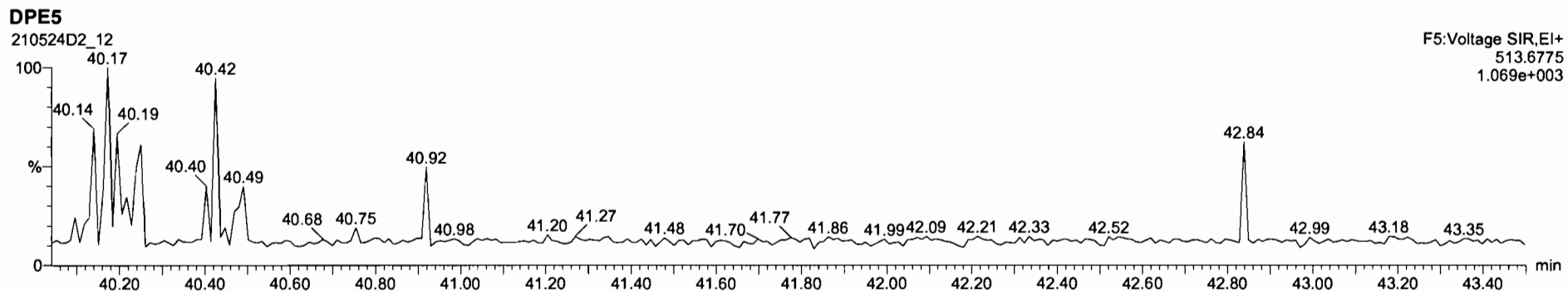
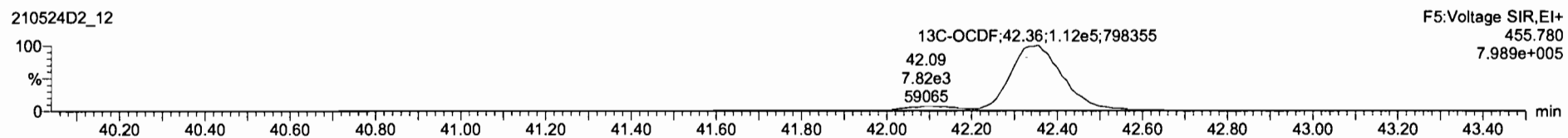
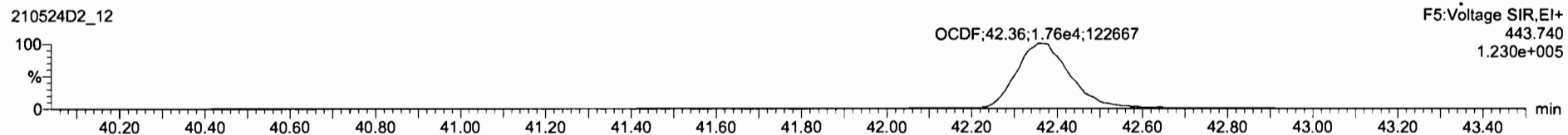
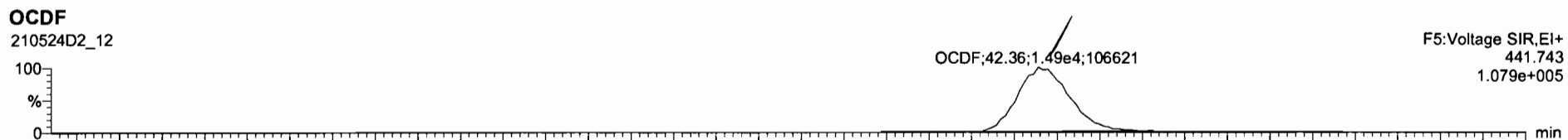
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Dataset: U:\VG7.PRO\Results\210524D2\210524D2-12.qld

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Printed: Wednesday, May 26, 2021 12:12:15 Pacific Daylight Time

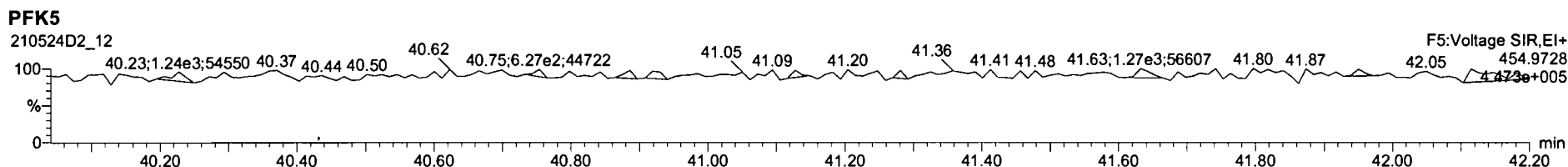
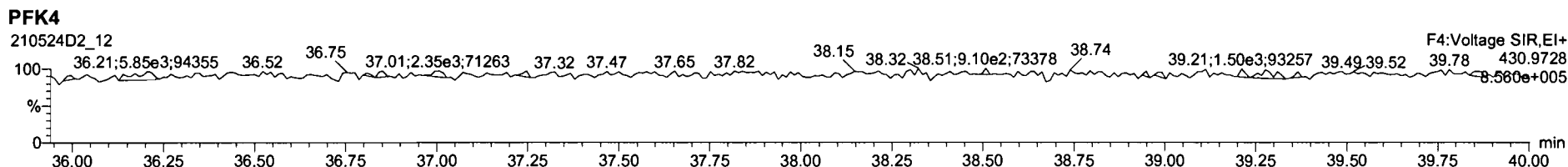
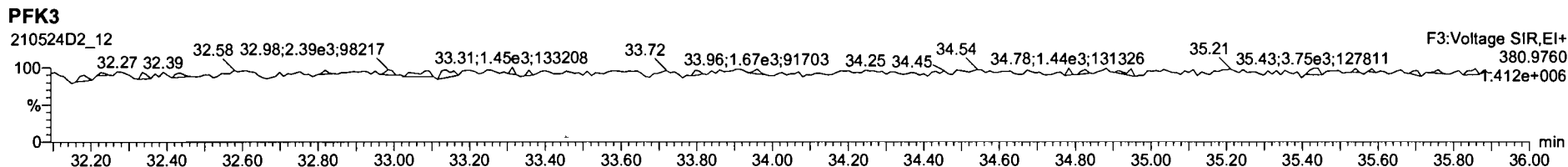
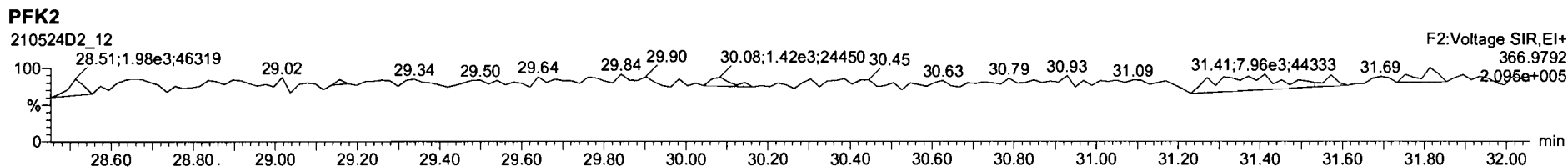
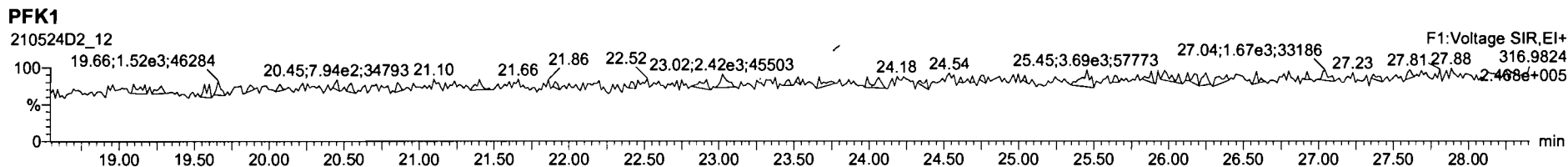
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Dataset: U:\VG7.PRO\Results\210524D2\210524D2-12.qld

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Printed: Wednesday, May 26, 2021 12:12:15 Pacific Daylight Time

Name: 210524D2_12, Date: 25-May-2021, Time: 03:42:37, ID: 2105020-07 USMPDI-020SC-A-15-16-210429 16.6, Description: USMPDI-020SC-A-15-16-210429



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-13.qld

Last Altered: Wednesday, June 09, 2021 16:47:12 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 16:47:30 Pacific Daylight Time

HZ 6.9.2021

C7 06/10/2021

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_13, Date: 25-May-2021, Time: 04:29:20, ID: B1E0138-DUP1 Duplicate 16.44, Description: Duplicate, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.50e2	0.40	YES	1.05	10.052	26.95	1.001	0.43673		0.107	0.289
2	1,2,3,7,8-PeCDD	2.44e2	0.47	YES	0.881	10.052	31.11	1.001	0.45713		0.307	0.377
3	1,2,3,4,7,8-HxCDD	3.42e2	1.01	YES	1.14	10.052	34.52	1.000	0.66182		0.489	0.602
4	1,2,3,6,7,8-HxCDD	2.50e3	1.30	NO	1.01	10.052	34.66	1.001	4.7640		0.496	4.76
5	1,2,3,7,8,9-HxCDD	8.33e2	1.52	YES	1.02	10.052	34.97	1.001	1.5852		0.516	1.41
6	1,2,3,4,6,7,8-HpCDD	1.24e5	1.04	NO	1.07	10.052	38.35	1.001	253.62		1.48	254
7	OCDD	7.02e5	0.91	NO	1.00	10.052	42.07	1.000	2298.7		2.97	2300
8	2,3,7,8-TCDF	3.45e4	0.76	NO	0.864	10.052	26.37	1.001	29.021		0.137	29.0
9	1,2,3,7,8-PeCDF	3.59e4	1.58	NO	0.948	10.052	29.98	1.001	37.376		0.378	37.4
10	2,3,4,7,8-PeCDF	2.67e4	1.59	NO	1.04	10.052	30.95	1.001	24.795		0.329	24.8
11	1,2,3,4,7,8-HxCDF	4.68e4	1.29	NO	1.04	10.052	33.56	1.001	54.678		0.327	54.7
12	1,2,3,6,7,8-HxCDF	1.21e4	1.28	NO	1.07	10.052	33.71	1.000	13.399		0.331	13.4
13	2,3,4,6,7,8-HxCDF	1.72e3	1.29	NO	1.12	10.052	34.42	1.001	2.0273		0.330	2.03
14	1,2,3,7,8,9-HxCDF	2.09e3	1.25	NO	1.10	10.052	35.57	1.001	2.6188		0.478	2.62
15	1,2,3,4,6,7,8-HpCDF	2.68e4	1.05	NO	1.16	10.052	37.14	1.000	43.026		0.385	43.0
16	1,2,3,4,7,8,9-HpCDF	5.46e3	1.07	NO	1.19	10.052	39.09	1.000	8.9425		0.522	8.94
17	OCDF	3.96e4	0.89	NO	0.909	10.052	42.42	1.001	97.218		2.77	97.2
18	13C-2,3,7,8-TCDD	1.52e5	0.80	NO	1.15	10.052	26.92	1.024	183.27	92.1	0.270	
19	13C-1,2,3,7,8-PeCDD	1.20e5	0.61	NO	0.887	10.052	31.09	1.183	187.20	94.1	0.450	
20	13C-1,2,3,4,7,8-HxCDD	8.99e4	1.32	NO	0.645	10.052	34.51	1.014	149.54	75.2	0.977	
21	13C-1,2,3,6,7,8-HxCDD	1.03e5	1.29	NO	0.717	10.052	34.64	1.018	154.98	77.9	0.880	
22	13C-1,2,3,7,8,9-HxCDD	1.03e5	1.33	NO	0.714	10.052	34.95	1.027	154.18	77.5	0.883	
23	13C-1,2,3,4,6,7,8-HpCDD	9.12e4	1.04	NO	0.583	10.052	38.33	1.127	167.83	84.4	0.861	
24	13C-OCDD	1.21e5	0.89	NO	0.451	10.052	42.06	1.236	288.49	72.5	0.981	
25	13C-2,3,7,8-TCDF	2.74e5	0.77	NO	1.09	10.052	26.34	1.002	181.27	91.1	0.240	
26	13C-1,2,3,7,8-PeCDF	2.02e5	1.60	NO	0.805	10.052	29.96	1.140	180.83	90.9	0.601	
27	13C-2,3,4,7,8-PeCDF	2.06e5	1.62	NO	0.792	10.052	30.93	1.177	187.97	94.5	0.611	
28	13C-1,2,3,4,7,8-HxCDF	1.63e5	0.50	NO	0.997	10.052	33.54	0.986	175.71	88.3	0.800	
29	13C-1,2,3,6,7,8-HxCDF	1.67e5	0.53	NO	1.03	10.052	33.70	0.990	174.67	87.8	0.776	
30	13C-2,3,4,6,7,8-HxCDF	1.51e5	0.51	NO	0.940	10.052	34.39	1.011	172.65	86.8	0.849	
31	13C-1,2,3,7,8,9-HxCDF	1.45e5	0.50	NO	0.852	10.052	35.53	1.044	182.30	91.6	0.936	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-13.qld

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Printed: Wednesday, June 09, 2021 16:47:30 Pacific Daylight Time

Name: 210524D2_13, Date: 25-May-2021, Time: 04:29:20, ID: B1E0138-DUP1 Duplicate 16.44, Description: Duplicate, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1.07e5	0.43	NO	0.727	10.052	37.13	1.091	157.74	79.3	0.863	
33	13C-1,2,3,4,7,8,9-HpCDF	1.02e5	0.43	NO	0.608	10.052	39.08	1.149	180.74	90.8	1.03	
34	13C-OCDF	1.79e5	0.89	NO	0.631	10.052	42.39	1.246	303.73	76.3	0.409	
35	37Cl-2,3,7,8-TCDD	1.32e5			2.22	10.052	26.95	1.026	81.772	103	0.0654	
36	13C-1,2,3,4-TCDD	1.44e5	0.84	NO	1.00	10.052	26.28	1.000	198.97	100	0.309	
37	13C-1,2,3,4-TCDF	2.76e5	0.78	NO	1.00	10.052	25.04	1.000	198.97	100	0.262	
38	13C-1,2,3,4,6,9-HxCDF	1.85e5	0.52	NO	1.00	10.052	34.03	1.000	198.97	100	0.798	
39	Total Tetra-Dioxins				1.05	10.052			2.3026		0.107	3.36
40	Total Penta-Dioxins				0.881	10.052			4.3274		0.307	10.0
41	Total Hexa-Dioxins				1.01	10.052			61.518		0.525	64.6
42	Total Hepta-Dioxins				1.07	10.052			566.07		1.48	566
43	Total Tetra-Furans				0.864	10.052			93.205		0.137	96.8
44	1st Func. Penta-Furans				0.948	10.052			21.175		0.0511	21.2
45	Total Penta-Furans				0.948	10.052			115.62		0.369	116
46	Total Hexa-Furans				1.12	10.052			118.76		0.353	124
47	Total Hepta-Furans				1.16	10.052			129.87		0.458	130

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-13.qld

Last Altered: Wednesday, June 09, 2021 16:47:12 Pacific Daylight Time
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Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
 Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_13, Date: 25-May-2021, Time: 04:29:20, ID: B1E0138-DUP1 Duplicate 16.44, Description: Duplicate, Task: ST210524D2-1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	24.09	5.186e3	6.706e3	3.330e2	3.788e2	0.88	NO	7.117e2	0.88710	0.88710	0.107
2	Total Tetra-Dioxins	24.52	1.637e3	1.248e3	6.025e1	8.044e1	0.75	NO	1.407e2	0.17536	0.17536	0.107
3	Total Tetra-Dioxins	25.19	1.460e3	1.916e3	1.067e2	1.148e2	0.93	YES	0.000e0	0.00000	0.25326	0.107
4	Total Tetra-Dioxins	25.36	2.841e3	3.202e3	1.977e2	1.757e2	1.13	YES	0.000e0	0.00000	0.38759	0.107
5	Total Tetra-Dioxins	25.56	2.096e3	2.371e3	1.077e2	1.385e2	0.78	NO	2.461e2	0.30677	0.30677	0.107
6	Total Tetra-Dioxins	25.73	7.060e2	1.313e3	4.382e1	8.367e1	0.52	YES	0.000e0	0.00000	0.12556	0.107
7	Total Tetra-Dioxins	26.05	1.284e3	1.529e3	8.596e1	1.262e2	0.68	NO	2.122e2	0.26444	0.26444	0.107
8	Total Tetra-Dioxins	26.71	2.818e3	2.739e3	1.645e2	2.270e2	0.72	NO	3.914e2	0.48791	0.48791	0.107
9	2,3,7,8-TCDD	26.95	2.189e3	4.925e3	1.009e2	2.495e2	0.40	YES	3.504e2	0.00000	0.28902	0.107
10	Total Tetra-Dioxins	27.21	1.197e3	1.295e3	6.677e1	7.843e1	0.85	NO	1.452e2	0.18099	0.18099	0.107

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	29.06	7.795e3	1.329e4	6.209e2	9.956e2	0.62	NO	1.617e3	3.0290	3.0290	0.307
2	Total Penta-Dioxins	29.50	3.108e3	3.137e3	1.136e2	1.886e2	0.60	NO	0.000e0	0.00000	0.56614	0.307
3	Total Penta-Dioxins	29.58	1.169e3	2.031e3	4.648e1	9.100e1	0.51	YES	0.000e0	0.00000	0.22534	0.307
4	Total Penta-Dioxins	29.96	1.397e4	1.697e4	6.467e2	7.865e2	0.82	YES	0.000e0	0.00000	2.4022	0.307
5	Total Penta-Dioxins	30.14	2.578e3	4.069e3	2.598e2	3.522e2	0.74	YES	0.000e0	0.00000	1.0755	0.307
6	Total Penta-Dioxins	30.41	3.967e3	6.767e3	2.588e2	4.341e2	0.60	NO	6.930e2	1.2984	1.2984	0.307
7	Total Penta-Dioxins	30.69	1.543e3	2.386e3	1.048e2	1.273e2	0.82	YES	0.000e0	0.00000	0.38886	0.307
8	1,2,3,7,8-PeCDD	31.11	1.964e3	3.595e3	7.781e1	1.662e2	0.47	YES	2.440e2	0.00000	0.37721	0.307
9	Total Penta-Dioxins	31.19	4.016e3	3.510e3	1.783e2	1.555e2	1.15	YES	0.000e0	0.00000	0.47487	0.307
10	Total Penta-Dioxins	31.45	7.990e2	1.383e3	4.656e1	5.931e1	0.79	YES	0.000e0	0.00000	0.18113	0.307

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-13.qld

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Name: 210524D2_13, Date: 25-May-2021, Time: 04:29:20, ID: B1E0138-DUP1 Duplicate 16.44, Description: Duplicate, Task: ST210524D2-1

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.75	1.449e5	1.140e5	7.967e3	6.069e3	1.31	NO	1.404e4	28.009	28.009	0.525
2	Total Hexa-Dioxins	33.40	1.396e4	1.034e4	7.904e2	6.153e2	1.28	NO	1.406e3	2.8051	2.8051	0.525
3	Total Hexa-Dioxins	33.73	9.077e4	6.501e4	7.402e3	5.596e3	1.32	NO	1.300e4	25.940	25.940	0.525
4	1,2,3,4,7,8-HxCDD	34.52	3.823e3	3.003e3	1.720e2	1.697e2	1.01	YES	3.418e2	0.00000	0.60180	0.499
5	1,2,3,6,7,8-HxCDD	34.66	2.151e4	1.782e4	1.417e3	1.086e3	1.30	NO	2.504e3	4.7640	4.7640	0.496
6	Total Hexa-Dioxins	34.84	5.689e3	4.880e3	3.011e2	2.965e2	1.02	YES	0.000e0	0.00000	1.0855	0.525
7	1,2,3,7,8,9-HxCDD	34.97	7.730e3	4.585e3	5.019e2	3.310e2	1.52	YES	8.330e2	0.00000	1.4112	0.516

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.42	1.212e6	1.158e6	7.709e4	7.543e4	1.02	NO	1.525e5	312.44	312.44	1.48
2	1,2,3,4,6,7,8-HpCDD	38.35	7.484e5	7.078e5	6.311e4	6.070e4	1.04	NO	1.238e5	253.62	253.62	1.48

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-13.qld

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 Printed: Wednesday, June 09, 2021 16:47:30 Pacific Daylight Time

Name: 210524D2_13, Date: 25-May-2021, Time: 04:29:20, ID: B1E0138-DUP1 Duplicate 16.44, Description: Duplicate, Task: ST210524D2-1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Furans	21.92	3.897e3	2.733e3	2.810e2	2.675e2	1.05	YES	0.000e0	0.00000	0.39791	0.137
2	Total Tetra-Furans	22.44	6.624e3	8.449e3	5.432e2	6.748e2	0.80	NO	1.218e3	1.0234	1.0234	0.137
3	Total Tetra-Furans	23.11	5.249e4	6.474e4	3.825e3	4.707e3	0.81	NO	8.532e3	7.1689	7.1689	0.137
4	Total Tetra-Furans	23.42	2.715e3	4.162e3	1.732e2	2.070e2	0.84	NO	3.802e2	0.31947	0.31947	0.137
5	Total Tetra-Furans	23.50	7.262e3	7.491e3	7.612e2	9.567e2	0.80	NO	1.718e3	1.4435	1.4435	0.137
6	Total Tetra-Furans	23.85	5.787e4	6.602e4	4.422e3	5.235e3	0.84	NO	9.657e3	8.1142	8.1142	0.137
7	Total Tetra-Furans	24.22	4.532e4	5.833e4	3.049e3	3.880e3	0.79	NO	6.930e3	5.8229	5.8229	0.137
8	Total Tetra-Furans	24.32	3.038e3	4.050e3	1.522e2	1.663e2	0.92	YES	0.000e0	0.00000	0.24726	0.137
9	Total Tetra-Furans	24.51	8.918e3	1.016e4	5.687e2	7.149e2	0.80	NO	1.284e3	1.0786	1.0786	0.137
10	Total Tetra-Furans	24.86	2.693e3	2.661e3	1.281e2	1.761e2	0.73	NO	3.042e2	0.25561	0.25561	0.137
11	Total Tetra-Furans	24.93	3.291e3	3.537e3	2.115e2	2.490e2	0.85	NO	4.604e2	0.38689	0.38689	0.137
12	Total Tetra-Furans	25.15	4.458e4	5.527e4	3.548e3	4.307e3	0.82	NO	7.855e3	6.6003	6.6003	0.137
13	Total Tetra-Furans	25.35	2.687e3	2.600e3	1.702e2	1.777e2	0.96	YES	0.000e0	0.00000	0.26427	0.137
14	Total Tetra-Furans	25.52	2.215e5	2.811e5	1.276e4	1.634e4	0.78	NO	2.911e4	24.456	24.456	0.137
15	Total Tetra-Furans	25.79	8.491e3	1.023e4	5.651e2	5.984e2	0.94	YES	0.000e0	0.00000	0.89001	0.137
16	Total Tetra-Furans	26.13	3.261e3	4.313e3	1.686e2	2.424e2	0.70	NO	4.110e2	0.34539	0.34539	0.137
17	Total Tetra-Furans	26.25	2.145e4	3.077e4	1.193e3	1.707e3	0.70	NO	2.900e3	2.4366	2.4366	0.137
18	2,3,7,8-TCDF	26.37	2.487e5	3.391e5	1.487e4	1.967e4	0.76	NO	3.454e4	29.021	29.021	0.137
19	Total Tetra-Furans	26.63	1.239e4	1.732e4	8.205e2	1.067e3	0.77	NO	1.888e3	1.5864	1.5864	0.137
20	Total Tetra-Furans	26.88	2.120e3	2.350e3	1.940e2	2.080e2	0.93	YES	0.000e0	0.00000	0.30928	0.137
21	Total Tetra-Furans	27.33	2.777e3	3.698e3	1.653e2	2.296e2	0.72	NO	3.949e2	0.33186	0.33186	0.137
22	Total Tetra-Furans	27.47	5.416e3	6.646e3	4.053e2	3.599e2	1.13	YES	0.000e0	0.00000	0.53522	0.137
23	Total Tetra-Furans	27.67	7.471e3	1.125e4	5.036e2	6.880e2	0.73	NO	1.192e3	1.0012	1.0012	0.137
24	Total Tetra-Furans	27.82	1.352e4	1.105e4	7.619e2	6.315e2	1.21	YES	0.000e0	0.00000	0.93916	0.137
25	Total Tetra-Furans	28.01	1.741e4	2.157e4	9.576e2	1.199e3	0.80	NO	2.156e3	1.8120	1.8120	0.137

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1st Func. Penta-Furans	27.64	2.327e5	1.459e5	1.295e4	7.645e3	1.69	NO	2.060e4	21.175	21.175	0.0511

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Name: 210524D2_13, Date: 25-May-2021, Time: 04:29:20, ID: B1E0138-DUP1 Duplicate 16.44, Description: Duplicate, Task: ST210524D2-1

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Furans	28.96	1.191e4	7.287e3	7.485e2	5.126e2	1.46	NO	1.261e3	1.2963	1.2963	0.369
2 Total Penta-Furans	29.10	2.923e5	1.817e5	1.663e4	1.055e4	1.58	NO	2.718e4	27.941	27.941	0.369
3 Total Penta-Furans	29.64	4.592e4	2.875e4	2.835e3	1.722e3	1.65	NO	4.557e3	4.6845	4.6845	0.369
4 Total Penta-Furans	29.80	4.703e4	3.030e4	2.318e3	1.475e3	1.57	NO	3.793e3	3.8987	3.8987	0.369
5 1,2,3,7,8-PeCDF	29.98	4.420e5	2.793e5	2.200e4	1.395e4	1.58	NO	3.595e4	37.376	37.376	0.378
6 Total Penta-Furans	30.12	7.552e3	3.701e3	3.483e2	1.998e2	1.74	NO	5.480e2	0.56335	0.56335	0.369
7 Total Penta-Furans	30.20	1.474e5	8.966e4	8.257e3	5.023e3	1.64	NO	1.328e4	13.651	13.651	0.369
8 Total Penta-Furans	30.77	5.710e3	2.975e3	2.724e2	1.437e2	1.89	YES	0.000e0	0.00000	0.37675	0.369
9 2,3,4,7,8-PeCDF	30.95	3.185e5	2.144e5	1.639e4	1.030e4	1.59	NO	2.669e4	24.795	24.795	0.329
10 Total Penta-Furans	31.81	1.266e4	7.635e3	8.257e2	5.491e2	1.50	NO	1.375e3	1.4132	1.4132	0.369

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Furans	32.20	3.538e4	2.845e4	1.861e3	1.399e3	1.33	NO	3.261e3	3.7077	3.7077	0.353
2 Total Hexa-Furans	32.38	1.558e5	1.295e5	7.911e3	6.317e3	1.25	NO	1.423e4	16.178	16.178	0.353
3 Total Hexa-Furans	32.82	2.973e3	2.360e3	1.775e2	1.039e2	1.71	YES	0.000e0	0.00000	0.26454	0.353
4 Total Hexa-Furans	33.06	2.024e5	1.626e5	1.153e4	9.241e3	1.25	NO	2.077e4	23.620	23.620	0.353
5 Total Hexa-Furans	33.42	6.055e3	4.605e3	3.078e2	2.131e2	1.44	YES	0.000e0	0.00000	0.54283	0.353
6 1,2,3,4,7,8-HxCDF	33.56	4.434e5	3.380e5	2.635e4	2.044e4	1.29	NO	4.680e4	54.678	54.678	0.327
7 1,2,3,6,7,8-HxCDF	33.71	1.029e5	7.294e4	6.799e3	5.308e3	1.28	NO	1.211e4	13.399	13.399	0.331
8 2,3,4,6,7,8-HxCDF	34.42	3.089e4	2.327e4	9.677e2	7.529e2	1.29	NO	1.721e3	2.0273	2.0273	0.330
9 Total Hexa-Furans	34.43	3.305e4	2.334e4	1.296e3	9.313e2	1.39	NO	2.227e3	2.5326	2.5326	0.353
10 1,2,3,7,8,9-HxCDF	35.57	3.221e4	2.514e4	1.162e3	9.310e2	1.25	NO	2.093e3	2.6188	2.6188	0.478
11 Total Hexa-Furans	35.58	3.822e4	3.221e4	2.063e3	1.577e3	1.31	NO	0.000e0	0.00000	4.1388	0.353

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1,2,3,4,6,7,8-HpCDF	37.14	1.885e5	1.805e5	1.370e4	1.310e4	1.05	NO	2.679e4	43.026	43.026	0.385
2 Total Hepta-Furans	37.69	3.954e5	3.809e5	2.395e4	2.355e4	1.02	NO	4.750e4	77.903	77.903	0.458
3 1,2,3,4,7,8,9-HpCDF	39.09	2.976e4	2.776e4	2.828e3	2.633e3	1.07	NO	5.461e3	8.9425	8.9425	0.522

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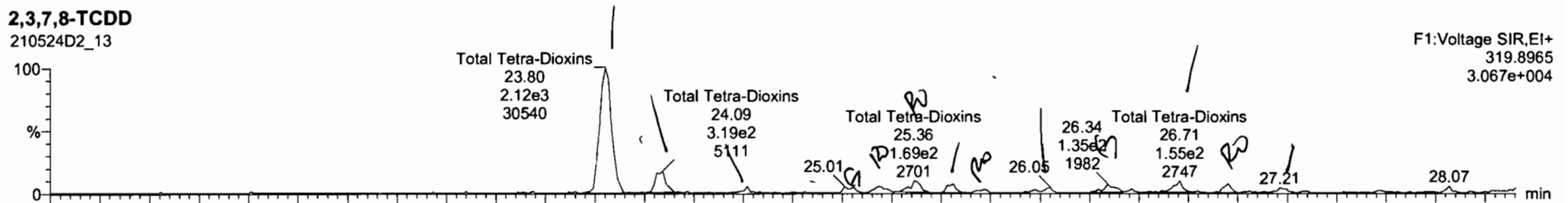
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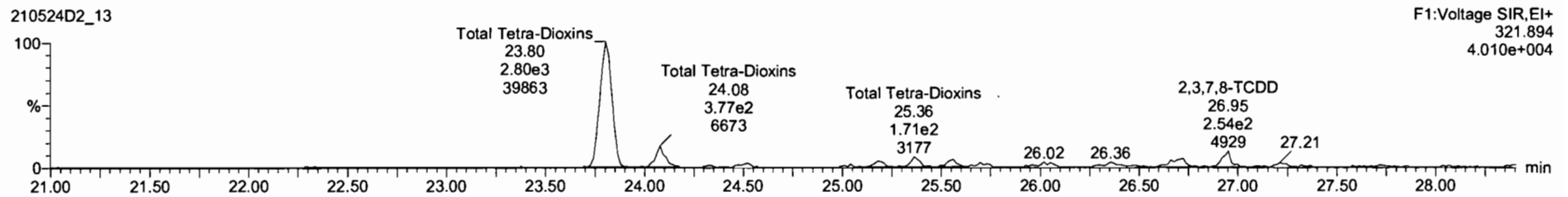
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2,3,7,8-TCDD

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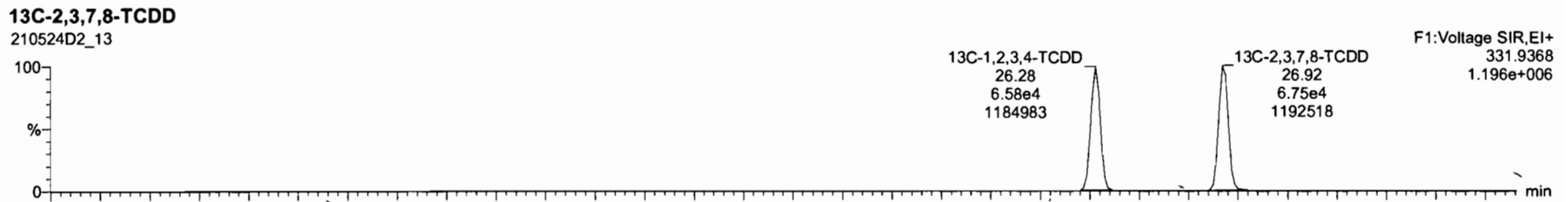


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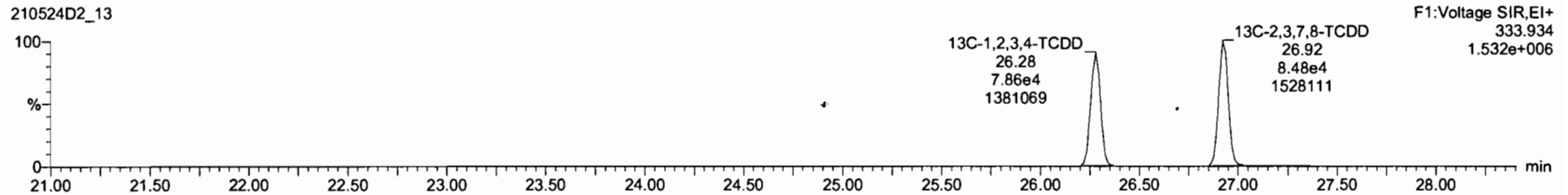


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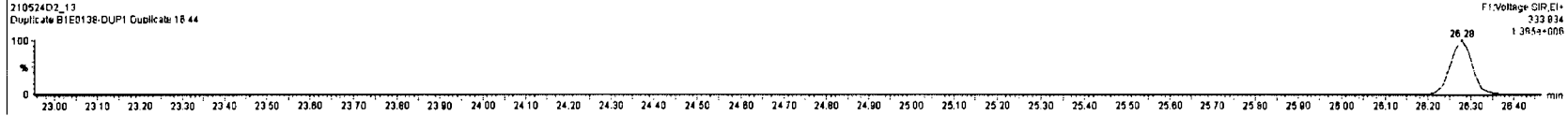
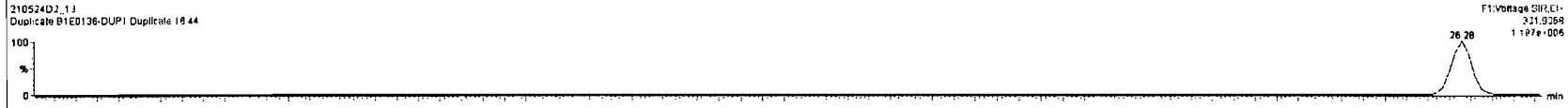
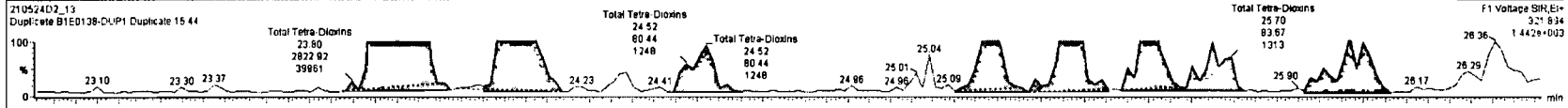
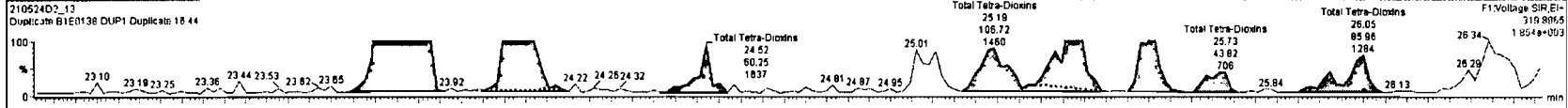


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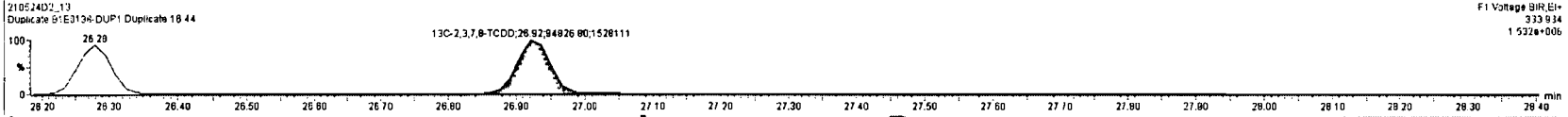
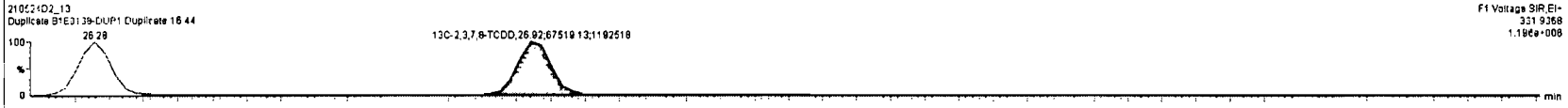
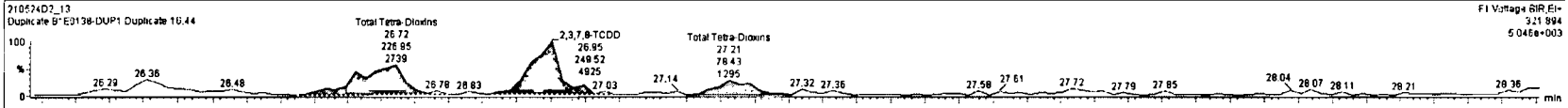
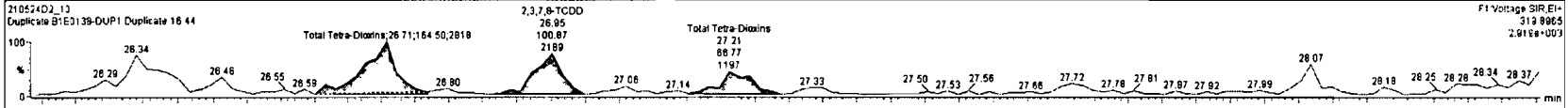
Name	Resp	RA	nly	RRF	wAve	RT	RRT	Conc	%Rec	DL	EWPC
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23 13C-1,2,3,4,6,7,8-HxCDD	9.12e4	1.04	NO	0.58	10.052	36.33	1.127	168	84.4	0.861	
24 13C-OCDD	1.21e5	0.89	NO	0.45	10.052	42.06	1.236	289	72.5	0.981	
25 13C-2,3,7,8-TCDF	2.74e5	0.77	NO	1.09	10.052	28.34	1.002	181	91.1	0.240	
26 13C-1,2,3,7,8-PeCDF	2.02e5	1.80	NO	0.80	10.052	29.96	1.140	181	90.9	0.621	
27 13C-1,2,3,7,8-PeCDF	2.08e5	1.62	NO	0.79	10.052	30.83	1.177	188	94.5	0.611	
28 13C-1,2,3,4,7,8-HxCDF	1.63e5	0.50	NO	1.00	10.052	33.54	0.986	176	88.3	0.800	
29 13C-1,2,3,8,9-HxCDF	1.67e5	0.53	NO	1.03	10.052	33.70	0.990	175	87.8	0.776	

Name	RT	m1 Resp	m2 Resp	RA	nly	EWPC	Conc.
1 Total Tetra-Dioxins	23.80	2.123e3	2.823e3	0.75	NO	6.1853	6.1853
2 Total Tetra-Dioxins	24.09	3.330e2	3.789e2	0.88	NO	0.88710	0.88710
3 Total Tetra-Dioxins	24.52	6.025e1	8.044e1	0.75	NO	0.17536	0.17536
4 Total Tetra-Dioxins	25.19	1.067e2	1.148e2	0.93	YES	0.25326	0.00000
5 Total Tetra-Dioxins	25.36	1.977e2	1.757e2	1.13	YES	0.38759	0.00000
6 Total Tetra-Dioxins	25.58	1.077e2	1.365e2	0.78	NO	0.30677	0.30677
7 Total Tetra-Dioxins	25.73	4.362e1	8.367e1	0.52	YES	0.12656	0.00000
8 Total Tetra-Dioxins	26.05	8.536e1	1.262e2	0.68	NO	0.26444	0.26444
9 Total Tetra-Dioxins	26.71	1.645e2	2.270e2	0.72	NO	0.48791	0.48791



Name	Resp	RA	nly	RNF	wtWtd	RT	RRT	Conc.	%Rec	DL	EMPC
13C-1,2,3,7,8,9-HxCDD	1.03e5	1.33	NO	0.71	10.052	34.95	1.027	154	77.5	0.863	
13C-1,2,3,4,6,7,8-HxCDD	9.12e4	1.04	NO	0.58	10.052	36.33	1.127	168	84.4	0.861	
13C-OCDD	1.21e5	0.89	NO	0.45	10.052	42.06	1.236	260	72.5	0.901	
13C-2,3,7,8-TCDF	2.74e5	0.77	NO	1.29	10.052	26.34	1.022	181	91.1	0.240	
13C-2,3,7,8-HxCDF	2.02e5	1.60	NO	0.80	10.052	29.96	1.140	181	90.9	0.801	
13C-2,3,4,7,8-HxCDF	2.06e5	1.82	NO	0.79	10.052	30.83	1.177	169	94.5	0.811	
13C-1,2,3,4,7,8-HxCDF	1.63e5	0.50	NO	1.00	10.052	33.54	0.986	176	88.3	0.800	
13C-1,2,3,6,7,8-HxCDF	1.87e5	0.53	NO	1.03	10.052	33.70	0.990	175	87.8	0.776	

Name	RT	m1 Rsp	m2 Rsp	RA	nly	EMPC	Conc.
Total Tetra-Dioxins	24.52	8.025e1	8.044e1	0.75	NO	0.17536	0.17536
Total Tetra-Dioxins	25.19	1.067e2	1.148e2	0.93	YES	0.25326	0.00000
Total Tetra-Dioxins	25.36	1.977e2	1.757e2	1.13	YES	0.36759	0.00000
Total Tetra-Dioxins	25.58	1.077e2	1.385e2	0.78	NO	0.30677	0.30677
Total Tetra-Dioxins	25.73	4.362e1	8.367e1	0.52	YES	0.12558	0.00000
Total Tetra-Dioxins	26.95	6.999e1	1.262e2	0.88	NO	0.26444	0.26444
Total Tetra-Dioxins	26.71	1.846e2	2.270e2	0.72	NO	0.44791	0.44791
2,3,7,8-TCDD	26.95	1.009e2	2.485e2	0.40	YES	0.29932	0.00000
Total Tetra-Dioxins	27.21	6.677e1	7.843e1	0.85	NO	0.18098	0.18098

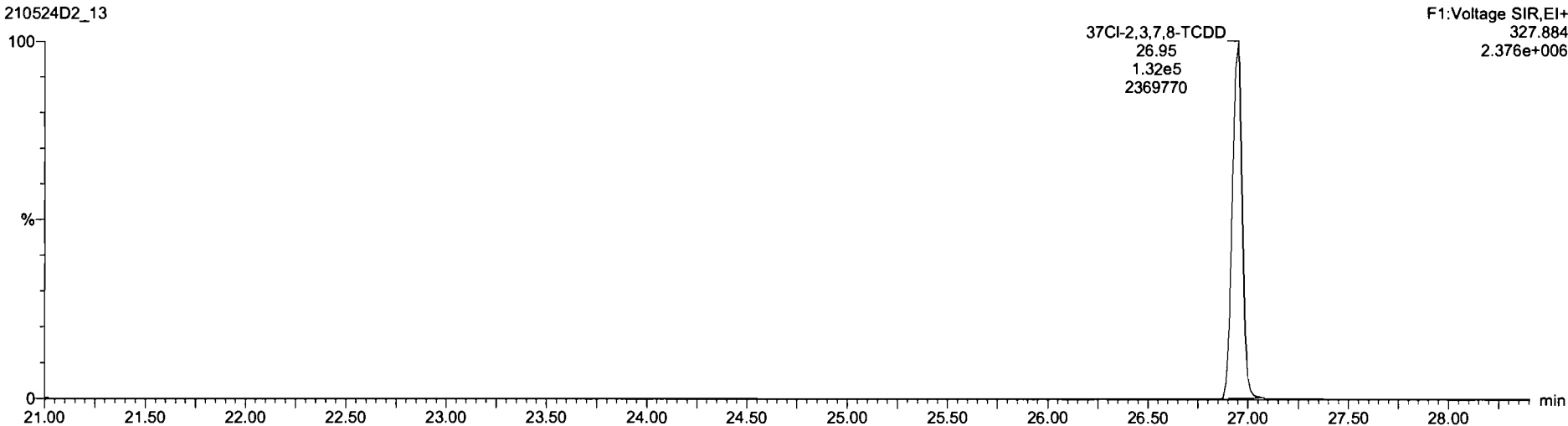


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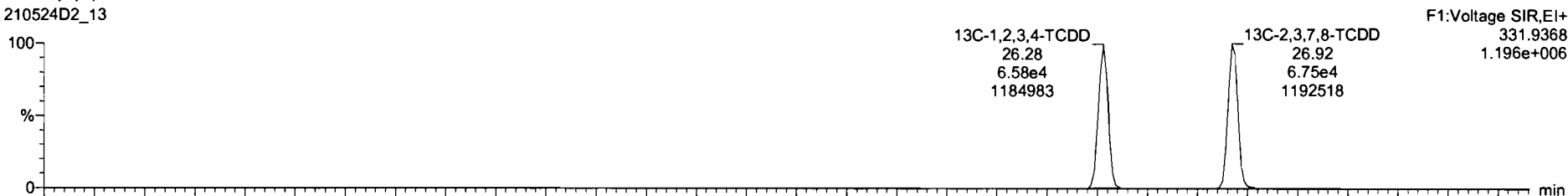
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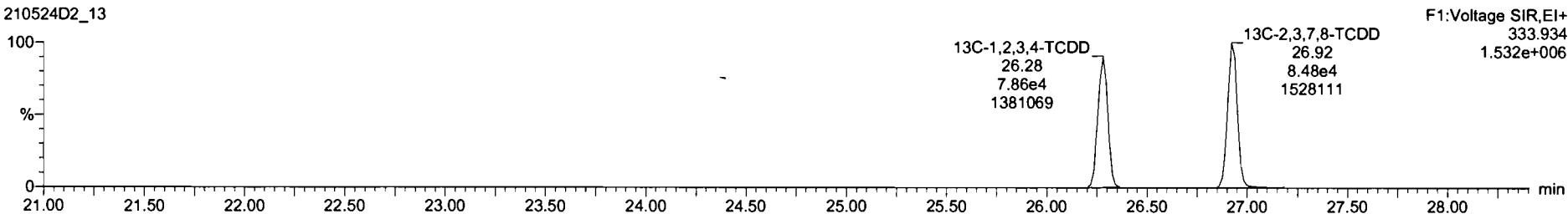
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210524D2_13



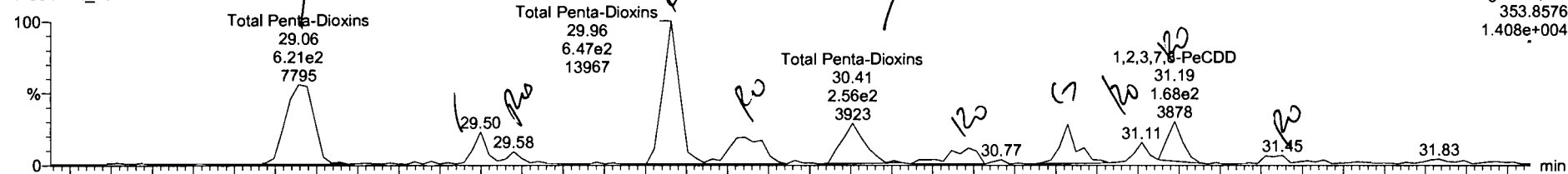
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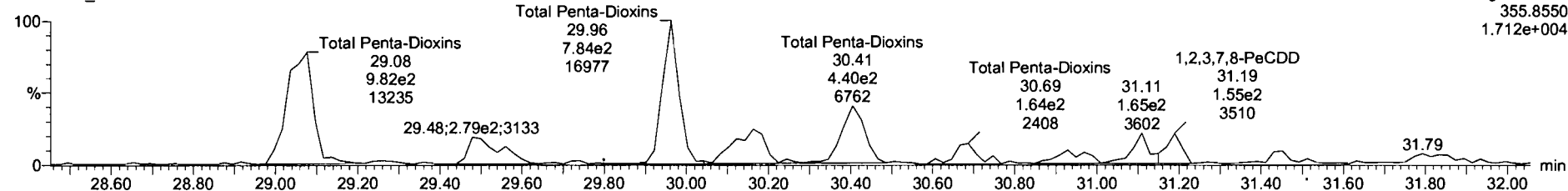
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1,2,3,7,8-PeCDD

210524D2_13



210524D2_13

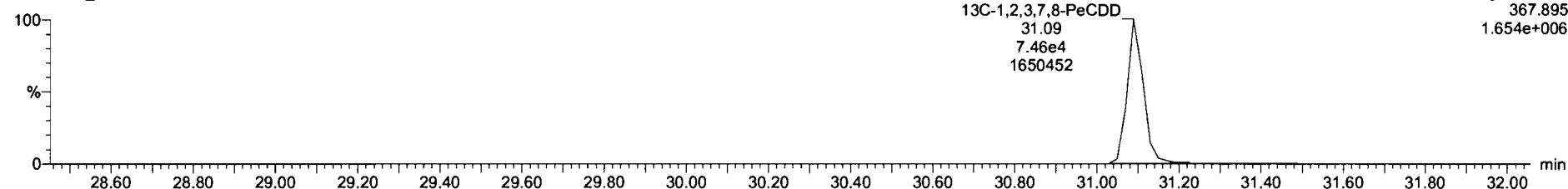


13C-1,2,3,7,8-PeCDD

210524D2_13



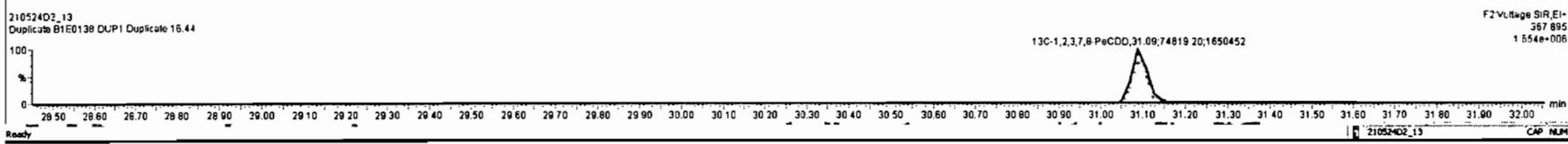
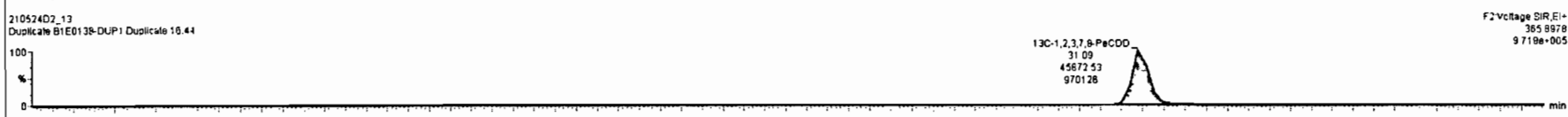
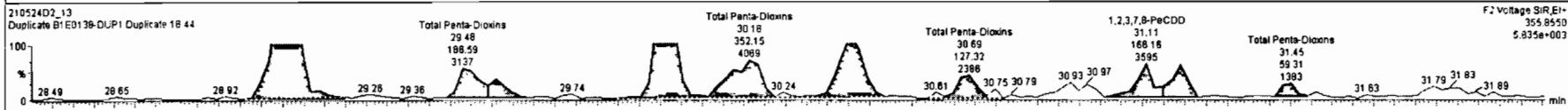
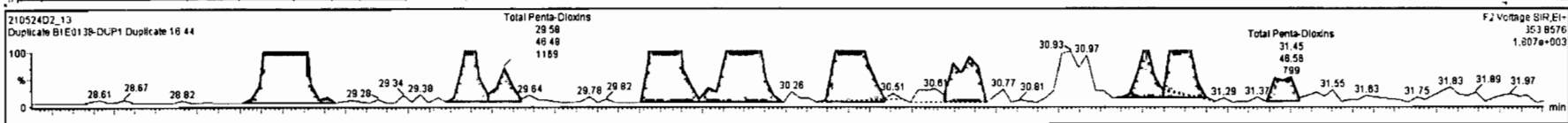
210524D2_13



210524D2_13-B1E0138-DUP1 Duplicate 16.44 - Duplicate

Name	Resp	RA	nly	RRF	wAval	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.98	10.052			4.33		0.307	10.0
41 Total Hexa-Dioxins				1.01	10.052			62.3		0.525	63.9
42 Total Hepta-Dioxins				1.07	10.052			566		1.48	567
43 Total Tetra-Furans				0.86	10.052			92.8		0.137	95.6
44 1st Func. Penta-Furans				0.95	10.052			21.2		0.0511	21.2
45 Total Penta-Furans				0.95	10.052			116		0.369	116
46 Total Hexa-Furans				1.12	10.052			123		0.353	123
47 Total Hepta-Furans				1.16	10.052			131		0.458	131

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	29.08	6.209e2	9.956e2	0.62	NO	3.0290	3.0290
2 Total Penta-Dioxins	29.50	1.136e2	1.986e2	0.60	NO	0.56614	0.00000
3 Total Penta-Dioxins	29.58	4.648e1	9.100e1	0.51	YES	0.22534	0.00000
4 Total Penta-Dioxins	29.96	6.467e2	7.865e2	0.82	YES	2.4022	0.00000
5 Total Penta-Dioxins	30.14	2.598e2	3.522e2	0.74	YES	1.0755	0.00000
6 Total Penta-Dioxins	30.41	2.506e2	4.341e2	0.60	NO	1.2904	1.2904
7 Total Penta-Dioxins	30.89	1.048e2	1.273e2	0.82	YES	0.36866	0.00000
8 1,2,3,7,8-PeCDD	31.11	7.781e1	1.862e2	0.47	YES	0.37721	0.00000
9 Total Penta-Dioxins	31.19	1.783e2	1.555e2	1.15	YES	0.47487	0.00000



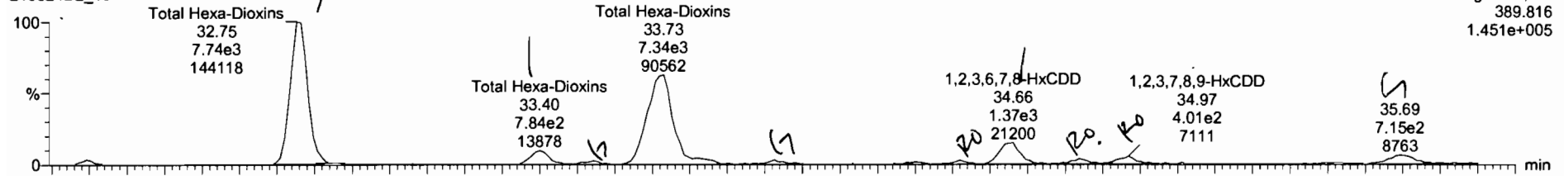
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Printed: Wednesday, May 26, 2021 12:12:44 Pacific Daylight Time

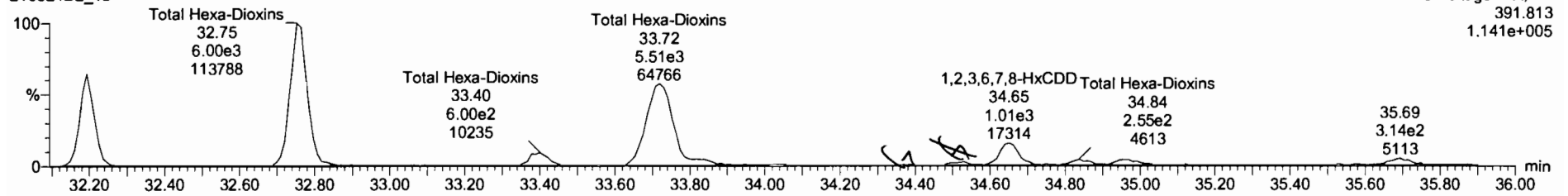
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1,2,3,4,7,8-HxCDD

210524D2_13

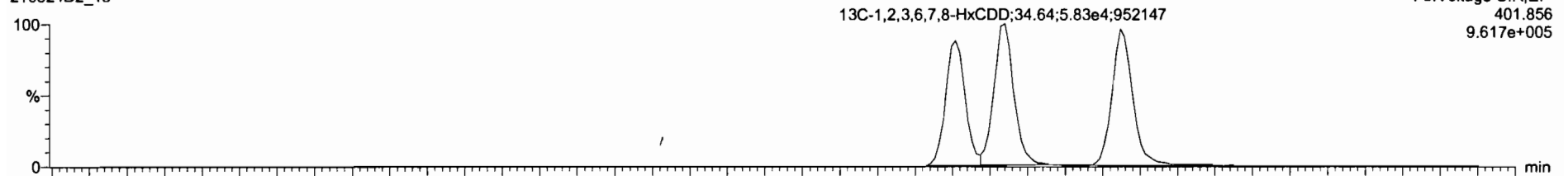


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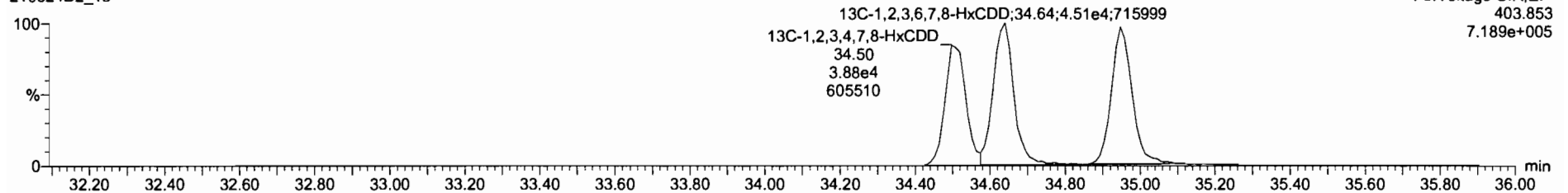


13C-1,2,3,4,7,8-HxCDD

210524D2_13



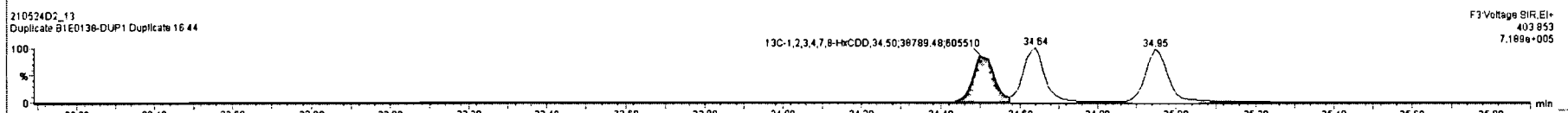
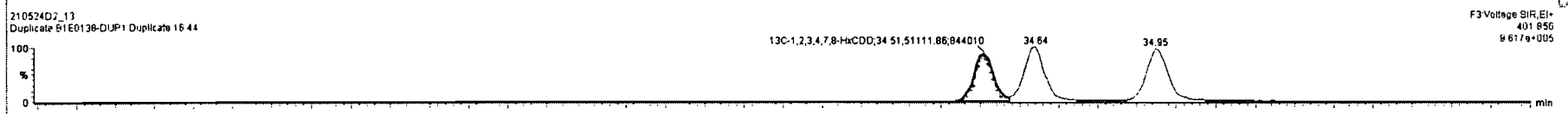
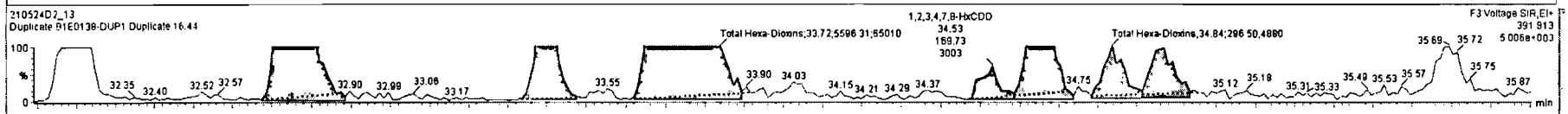
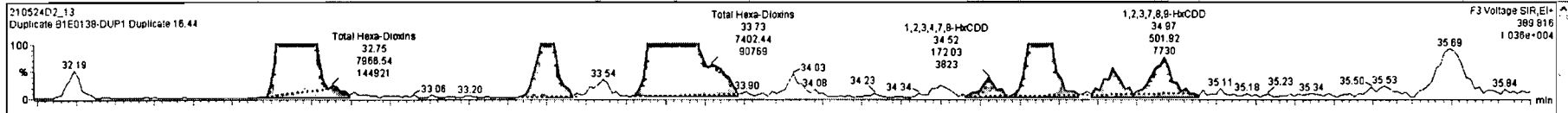
210524D2_13



210524D2_13 - B1E0138-DUP1 Duplicate 16.44 - Duplicate

Name	Resp	RA	n/y	R/F	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
13C-1,2,3,7,8-PeCDF	2.02e5	1.60	NO	0.80	10.052	29.96	1.140	181	90.9	0.801	
13C-2,3,4,7,8-PeCDF	2.09e5	1.62	NO	0.79	10.052	30.83	1.177	186	94.5	0.811	
13C-1,2,3,4,7,8-HxCDF	1.83e5	0.50	NO	1.00	10.052	33.84	0.996	176	88.3	0.800	
13C-1,2,3,6,7,8-HxCDF	1.87e5	0.53	NO	1.03	10.052	33.70	0.990	175	87.8	0.776	
13C-2,3,4,6,7,8-HxCDF	1.51e5	0.51	NO	0.84	10.052	34.38	1.011	173	86.8	0.849	
13C-1,2,3,7,8-HxCDF	1.45e5	0.50	NO	0.85	10.052	35.53	1.044	182	91.6	0.836	
13C-1,2,3,4,6,7,8-HxCDF	1.07e5	0.43	NO	0.73	10.052	37.13	1.091	158	79.3	0.863	
13C-1,2,3,4,7,8,9-HxCDF	1.02e5	0.43	NO	0.81	10.052	38.06	1.149	181	90.8	1.03	

Name	RT1	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.75	7.967e3	6.066e3	1.31	NO	26.009	26.009
2 Total Hexa-Dioxins	33.40	7.904e2	6.153e2	1.28	NO	2.8051	2.8051
3 Total Hexa-Dioxins	33.73	7.422e3	5.596e3	1.32	NO	25.940	25.940
4 1,2,3,4,7,8-HxCDD	34.52	1.720e2	1.697e2	1.01	YES	0.60180	0.00000
5 1,2,3,6,7,8-HxCDD	34.66	1.417e3	1.086e3	1.30	NO	4.7640	4.7640
6 Total Hexa-Dioxins	34.84	3.011e2	2.965e2	1.02	YES	1.0855	0.00000
7 1,2,3,7,8,9-HxCDD	34.97	5.019e2	3.310e2	1.52	YES	1.4112	0.00000



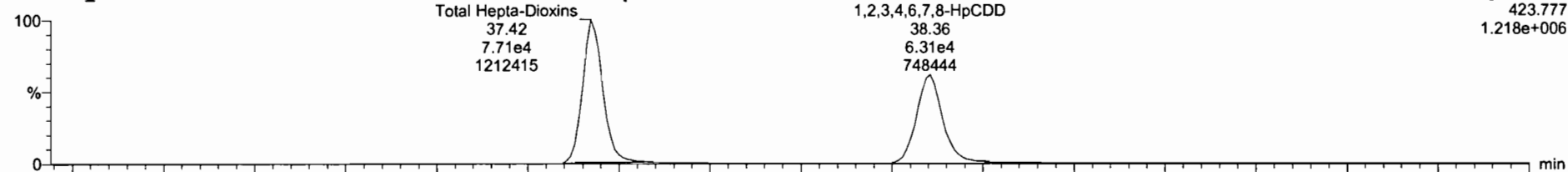
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Printed: Wednesday, May 26, 2021 12:12:44 Pacific Daylight Time

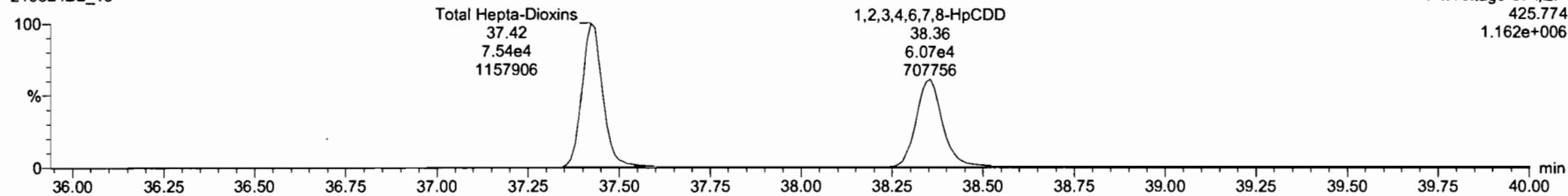
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1,2,3,4,6,7,8-HpCDD

210524D2_13

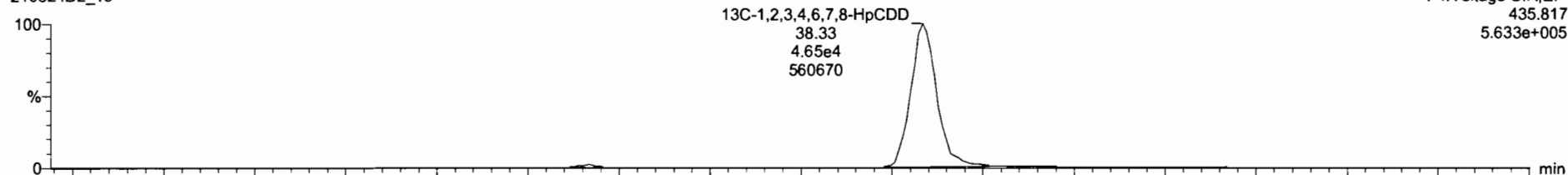


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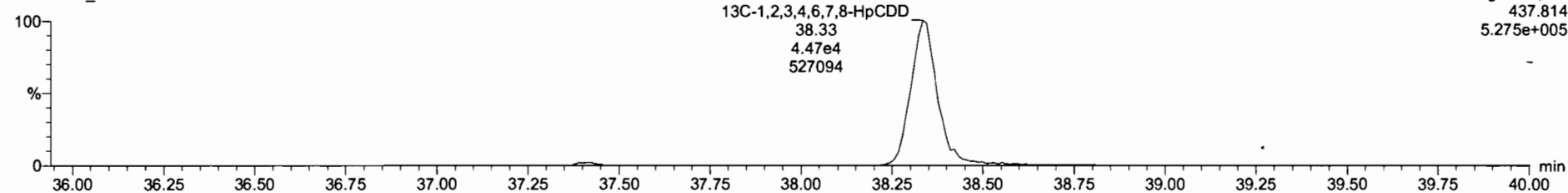


13C-1,2,3,4,6,7,8-HpCDD

210524D2_13



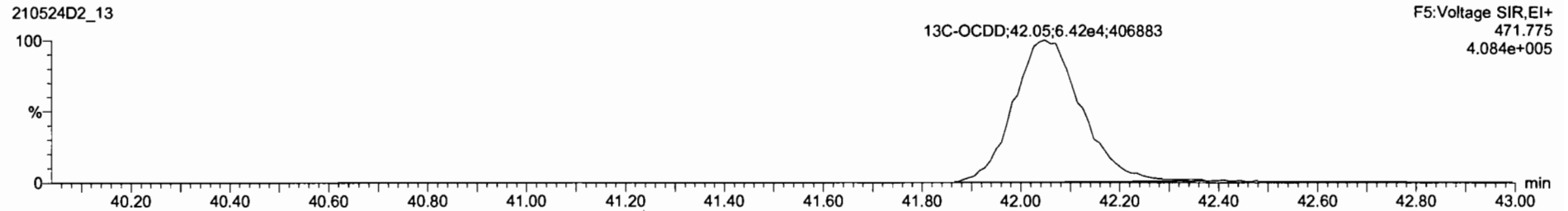
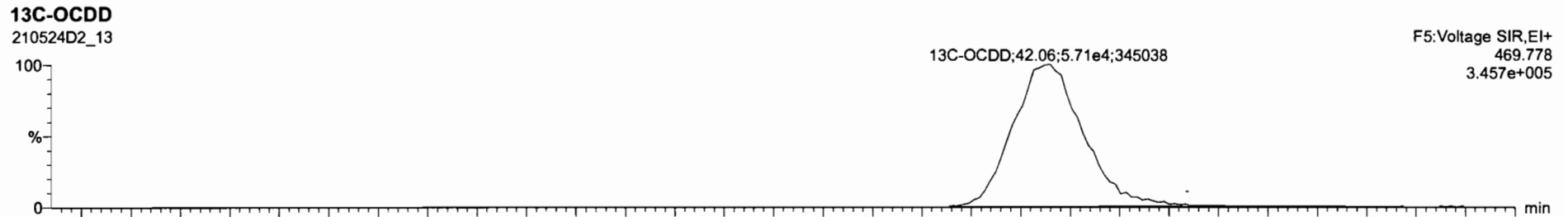
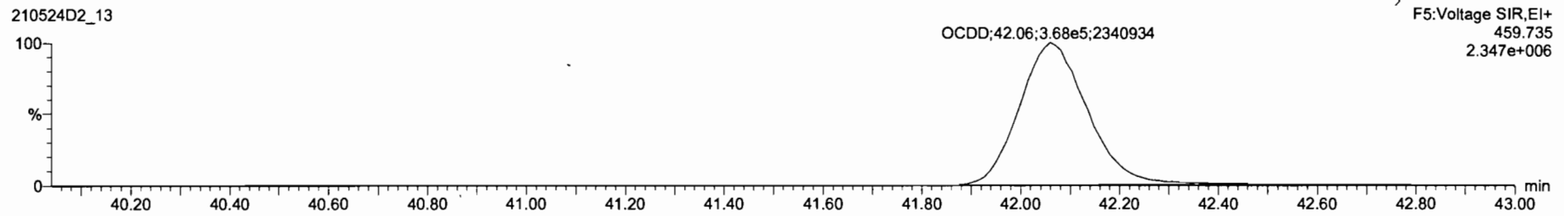
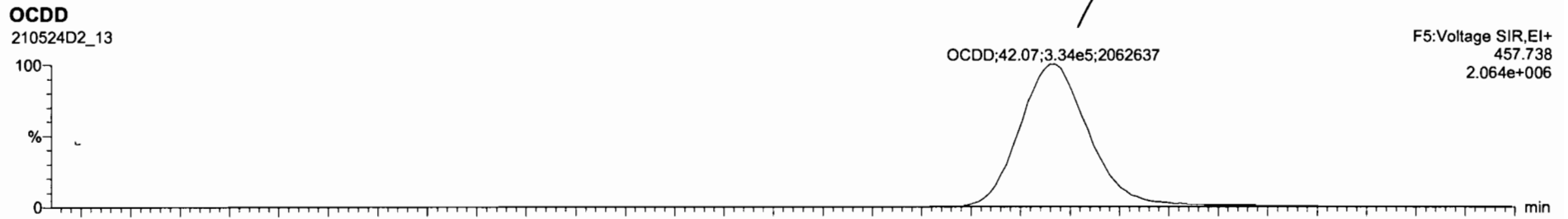
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Printed: Wednesday, May 26, 2021 12:12:44 Pacific Daylight Time

Name: 210524D2_13, Date: 25-May-2021, Time: 04:29:20, ID: B1E0138-DUP1 Duplicate 16.44, Description: Duplicate



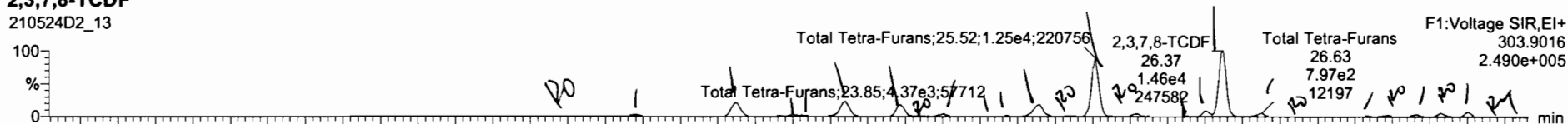
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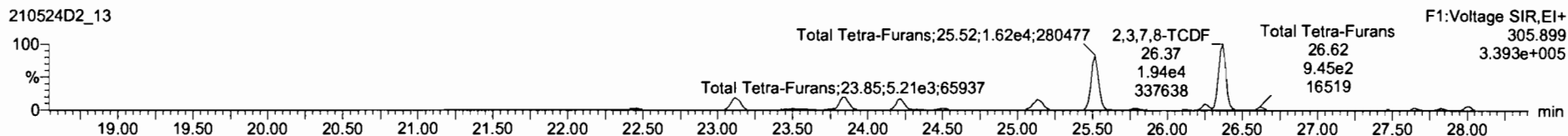
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2,3,7,8-TCDF

210524D2_13

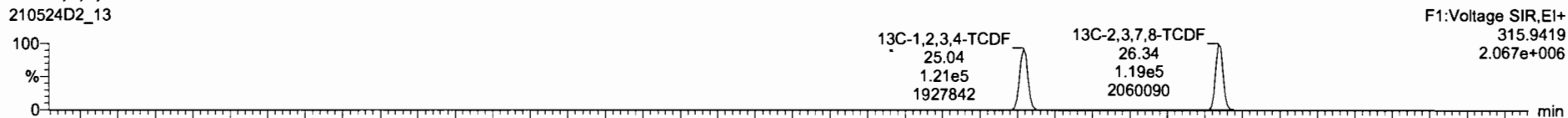


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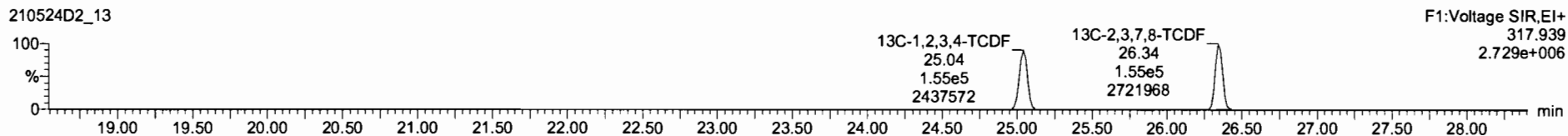


13C-2,3,7,8-TCDF

210524D2_13

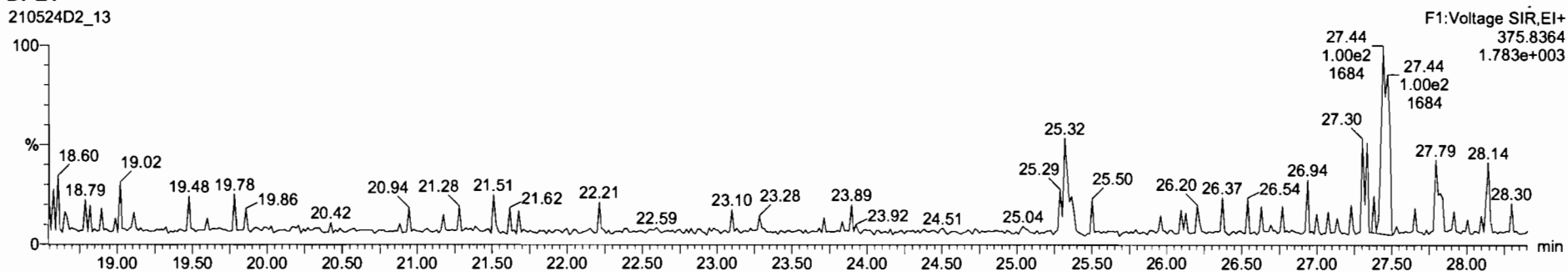


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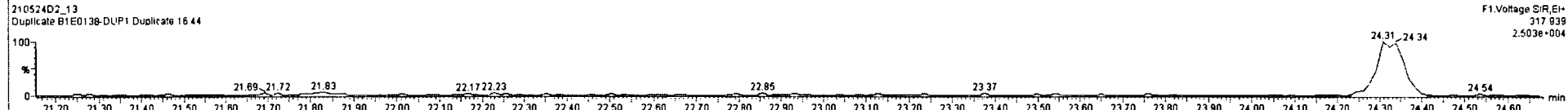
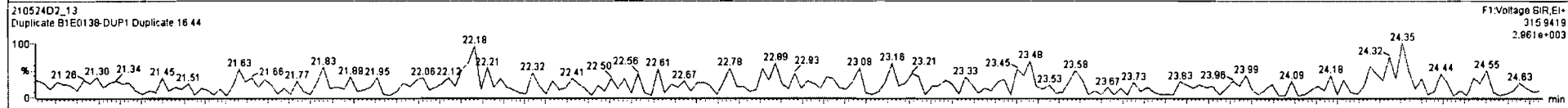
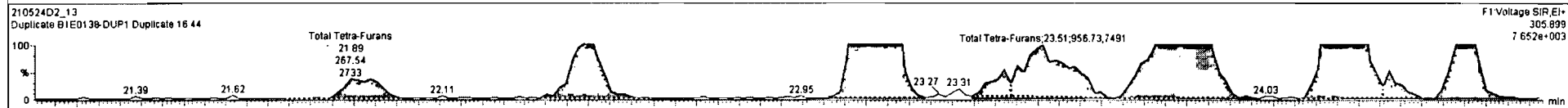
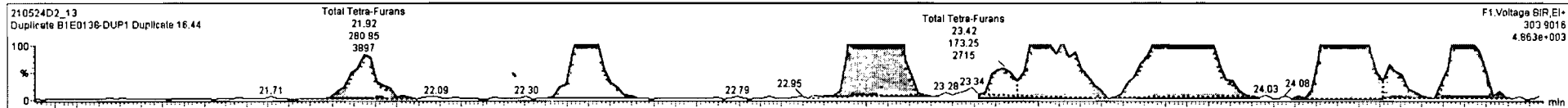
DPE1

210524D2_13



Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.052			566		1.48	566
43 Total Tetra-Furans				0.86	10.052			83.2	0.137	0.68	86.8
44 1st Func. Penta-Furans				0.95	10.052			21.2	0.0511	21.2	
45 Total Penta-Furans				0.95	10.052			116	0.369	116	
46 Total Hexa-Furans				1.12	10.052			123	0.353	123	
47 Total Hepta-Furane				1.16	10.052			131	0.458	131	
48 PFK1											
49 PFK2											

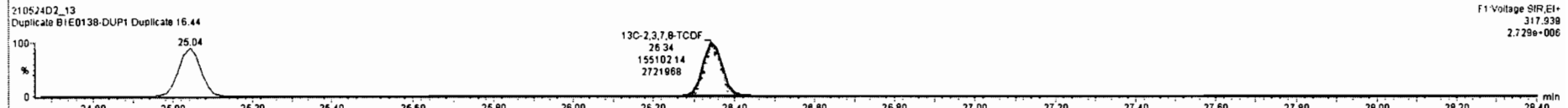
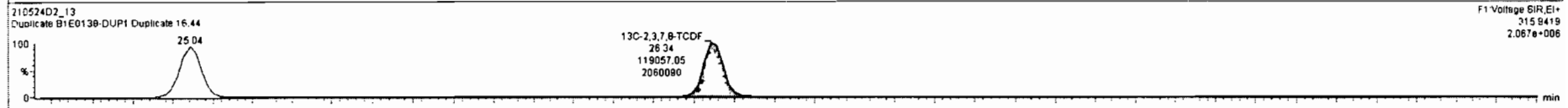
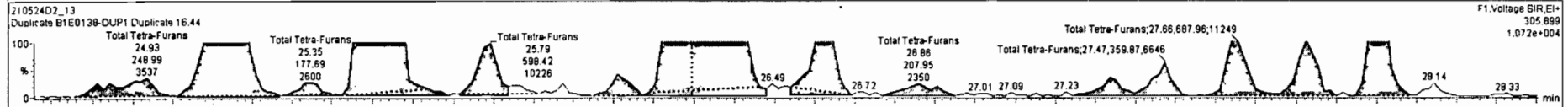
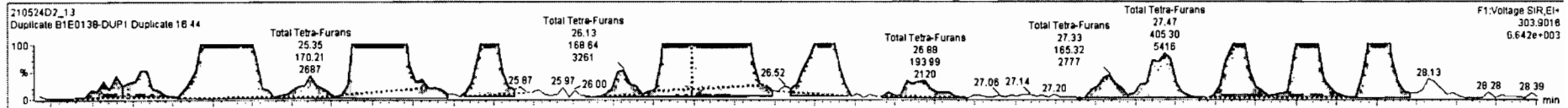
Name	RT, s	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.92	2.810e2	2.675e2	1.05	YES	0.39791	0.00000
2 Total Tetra-Furans	22.44	5.432e2	6.748e2	0.80	NO	1.0234	1.0234
3 Total Tetra-Furans	23.11	3.825e2	4.707e2	0.81	NO	7.1689	7.1689
4 Total Tetra-Furans	23.42	1.732e2	2.070e2	0.84	NO	0.31947	0.31947
5 Total Tetra-Furans	23.50	7.812e2	9.567e2	0.80	NO	1.4435	1.4435
6 Total Tetra-Furans	23.85	4.422e2	5.235e2	0.84	NO	8.1142	8.1142
7 Total Tetra-Furans	24.22	3.049e2	3.880e2	0.79	NO	5.8229	5.8229
8 Total Tetra-Furans	24.32	1.522e2	1.663e2	0.92	YES	0.24726	0.00000
9 Total Tetra-Furans	24.51	5.687e2	7.149e2	0.80	NO	1.0786	1.0786



21052402_13 - B1E0138-DUP1 Duplicate 16.44 - Duplicate

Name	Resp	RA	nV	R/R	wtAve	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.052			586		1.48	586
43 Total Tetra-Furans				0.86	10.052			83.2		0.137	86.8
44 1st Func. Penta-Furans				0.85	10.052			21.2		0.0511	21.2
45 Total Penta-Furans				0.95	10.052			116		0.369	116
46 Total Hexa-Furans				1.12	10.052			123		0.353	123
47 Total Hepta-Furans				1.16	10.052			131		0.458	131
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc.
1 Total Tetra-Furans	21.92	2.810e2	2.675e2	1.05	YES	0.39791	0.00000
2 Total Tetra-Furans	22.44	5.432e2	6.748e2	0.80	NO	1.0234	1.0234
3 Total Tetra-Furans	23.11	3.825e3	4.707e3	0.81	NO	7.1689	7.1689
4 Total Tetra-Furans	23.42	1.732e2	2.070e2	0.84	NO	0.31947	0.31947
5 Total Tetra-Furans	23.50	7.612e2	9.567e2	0.80	NO	1.4435	1.4435
6 Total Tetra-Furans	23.85	4.422e3	5.235e3	0.84	NO	8.1142	8.1142
7 Total Tetra-Furans	24.22	3.049e3	3.880e3	0.79	NO	5.8229	5.8229
8 Total Tetra-Furans	24.32	1.522e2	1.883e2	0.82	YES	0.24726	0.00000
9 Total Tetra-Furans	24.51	5.687e2	7.149e2	0.80	NO	1.0786	1.0786



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-13.qld

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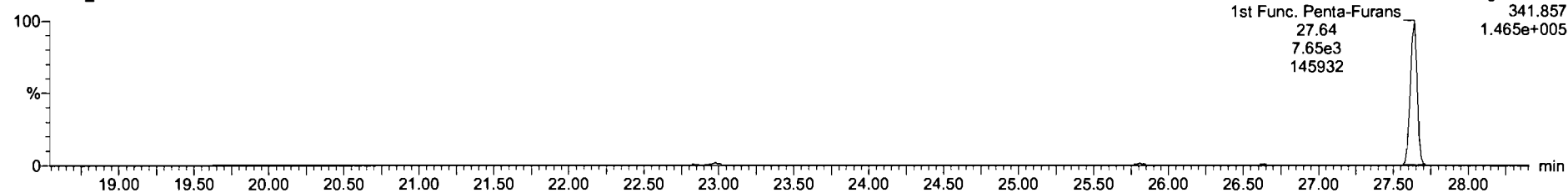
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1st Func. Penta-Furans

210524D2_13

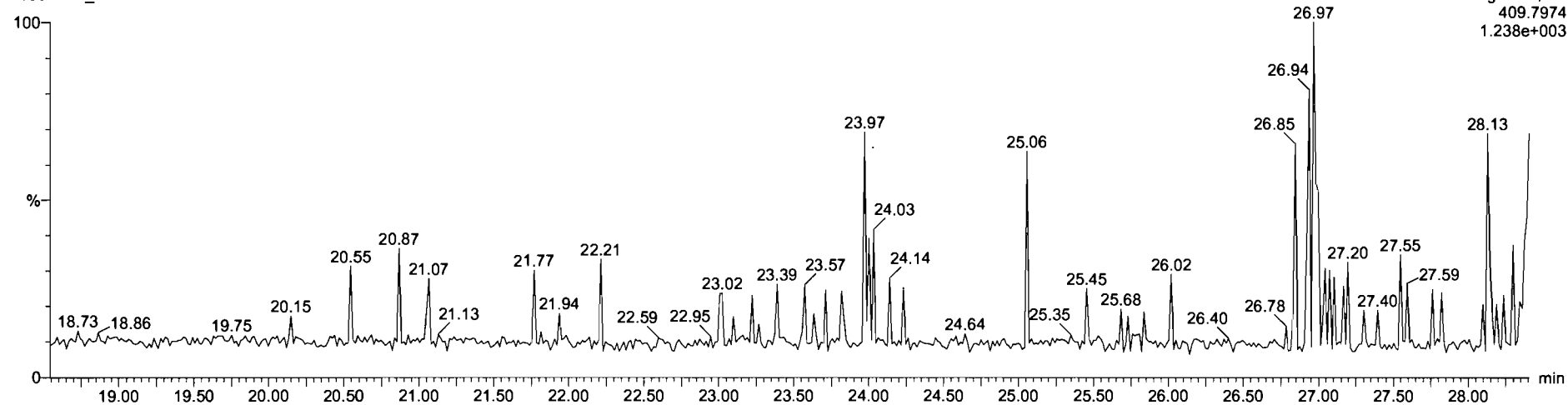


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DPE6

210524D2_13



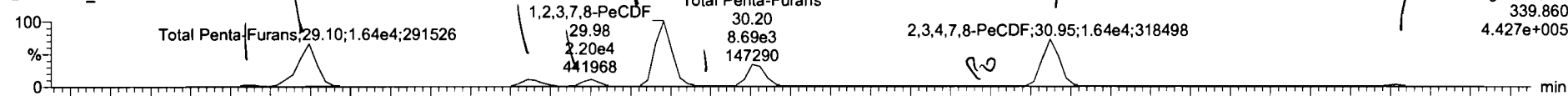
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Printed: Wednesday, May 26, 2021 12:12:44 Pacific Daylight Time

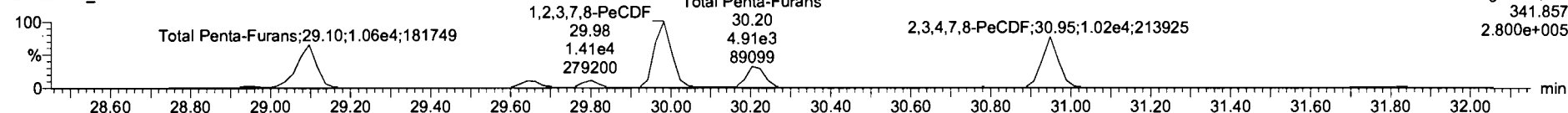
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1,2,3,7,8-PeCDF

210524D2_13

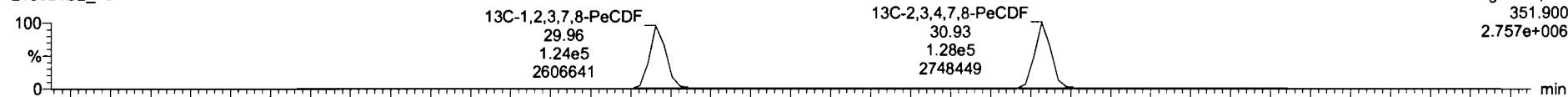


210524D2_13

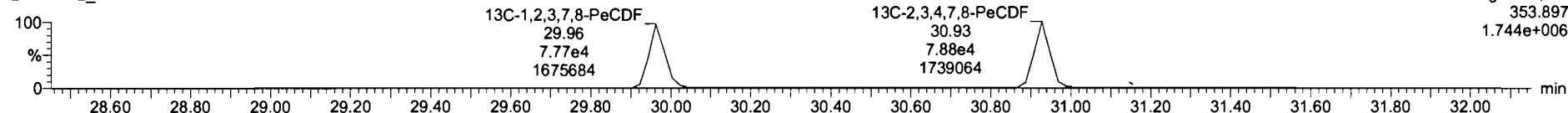


13C-1,2,3,7,8-PeCDF

210524D2_13

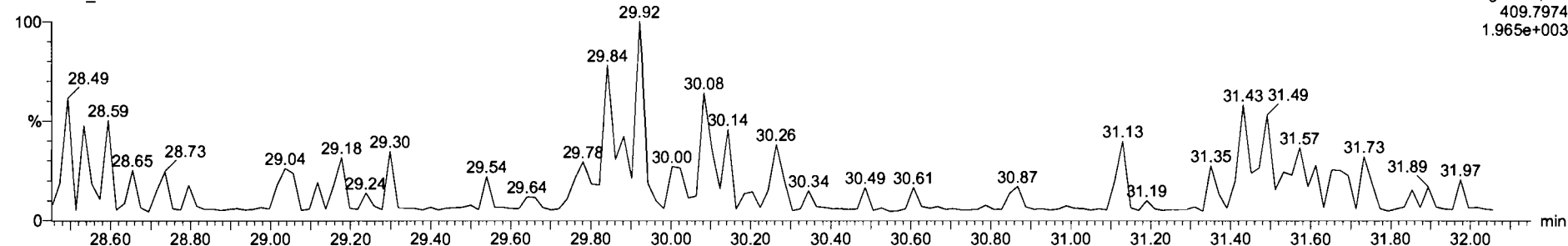


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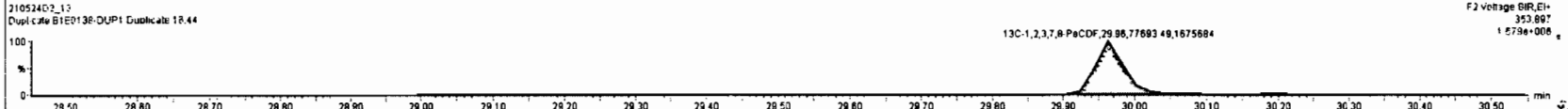
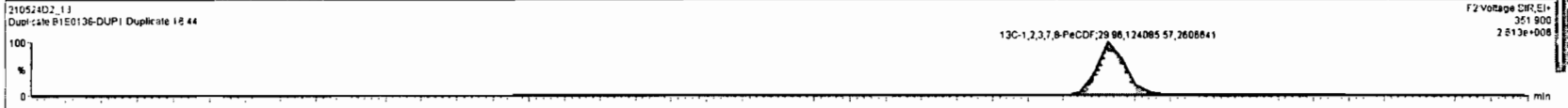
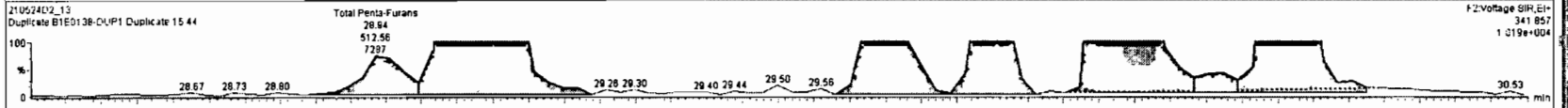
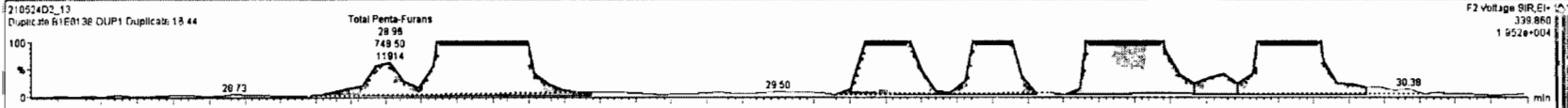
DPE2

210524D2_13



Name	Resp	RA	rvj	RRF	wAve	RT	RRT	Conc	%Rec	DL	DFPC
42 Total Hexa-Furans				1.07	10.052			566		1.48	566
43 Total Tetra-Furans				0.85	10.052			83.2		0.137	86.8
44 1st Func. Penta-Furans				0.95	10.052			21.2		0.2511	21.2
45 Total Penta-Furans				0.95	10.052			116		0.360	116
46 Total Hexa-Furans				1.12	10.052			123		0.353	123
47 Total Hexa-Furans				1.16	10.052			131		0.458	131
48 PFK1											
49 PFK2											

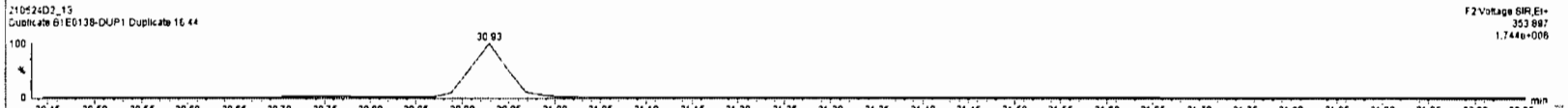
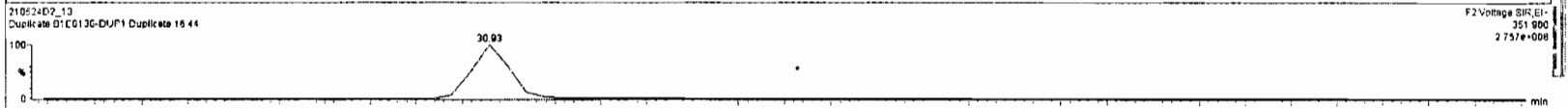
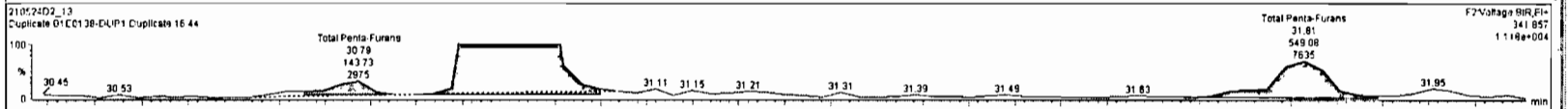
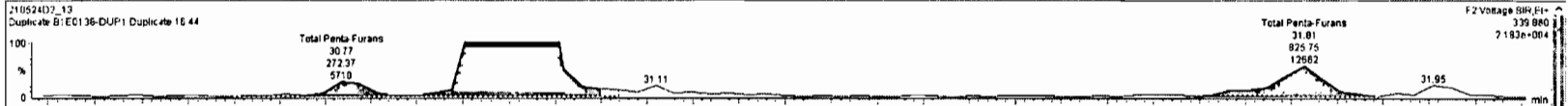
Name	RT	m1 Resp	m2 Resp	RA	rvj	DFPC	Conc.
1 Total Penta-Furans	28.96	7.485e2	5.126e2	1.46	NO	1.2963	1.2963
2 Total Penta-Furans	29.10	1.863e4	1.055e4	1.58	NO	27.941	27.941
3 Total Penta-Furans	29.84	2.825e3	1.722e3	1.65	NO	4.8845	4.8845
4 Total Penta-Furans	29.80	2.318e3	1.475e3	1.57	NO	3.8987	3.8987
5 1,2,3,7,8-PeCDF	29.98	2.200e4	1.395e4	1.58	NO	37.376	37.376
6 Total Penta-Furans	30.12	3.483e2	1.996e2	1.74	NO	0.58335	0.58335
7 Total Penta-Furans	30.20	8.257e3	5.023e3	1.64	NO	13.851	13.851
8 Total Penta-Furans	30.77	2.724e2	1.437e2	1.89	YES	0.37675	0.00000
9 2,3,4,7,8-PeCDF	30.95	1.839e4	1.030e4	1.58	NO	24.795	24.795



21052402_13 - B1E0138-DUP1 Duplicate 16.44 - Duplicate

Name	Resp	RA	RV	RFV	VolVol	RT	RRT	Conc.	%Rec	DL	EmpC
42 Total Hepta-Chlorides				1.07	10.052			568	1.48	568	
43 Total Tetra-Furans				0.86	10.052			93.2	0.137	96.8	
44 1st Func. Penta-Furans				0.95	10.052			21.2	0.0511	21.2	
45 Total Penta-Furans				0.88	10.052			118	0.369	118	
46 Total Hexa-Furans				1.12	10.052			123	0.353	123	
47 Total Hepta-Furans				1.16	10.052			131	0.458	131	
48 PPK1											
49 PPK2											

Name	RT	Int Resp	Int Resp	RA	RV	EmpC	Conc.
2 Total Penta-Furans	29.10	1.653e4	1.055e4	1.58	NO	27.941	27.941
3 Total Penta-Furans	29.84	2.835e3	1.722e3	1.86	NO	4.8845	4.8845
4 Total Penta-Furans	29.80	2.318e3	1.475e3	1.57	NO	3.8987	3.8987
5 1,2,3,7,8-PeCDF	29.98	2.200e4	1.305e4	1.58	NO	37.378	37.378
6 Total Penta-Furans	30.12	3.483e2	1.998e2	1.74	NO	0.58335	0.58335
7 Total Penta-Furans	30.20	8.257e3	5.023e3	1.64	NO	13.651	13.651
8 Total Penta-Furans	30.77	2.724e2	1.437e2	1.88	YES	0.37875	0.00000
9 2,3,4,7,8-PeCDF	30.95	1.839e4	1.030e4	1.58	NO	24.795	24.795
10 Total Penta-Furans	31.81	8.257e2	5.491e2	1.50	NO	1.4132	1.4132



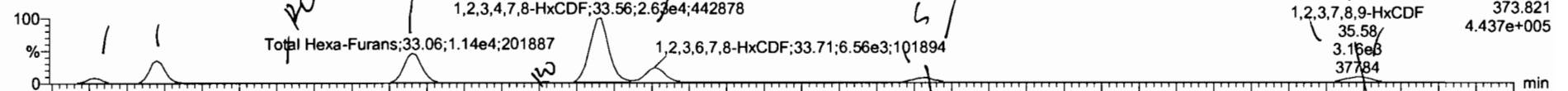
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Last Altered: Wednesday, May 26, 2021 12:12:19 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:12:44 Pacific Daylight Time

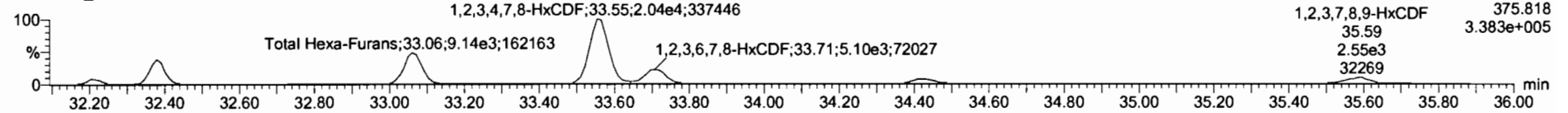
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1,2,3,4,7,8-HxCDF

210524D2_13

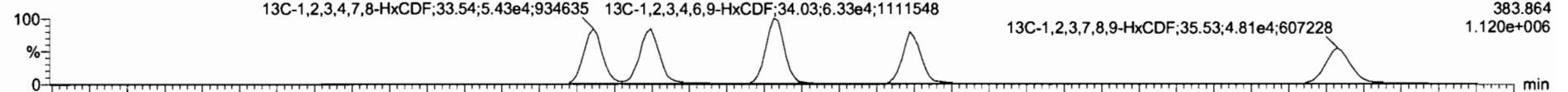


210524D2_13

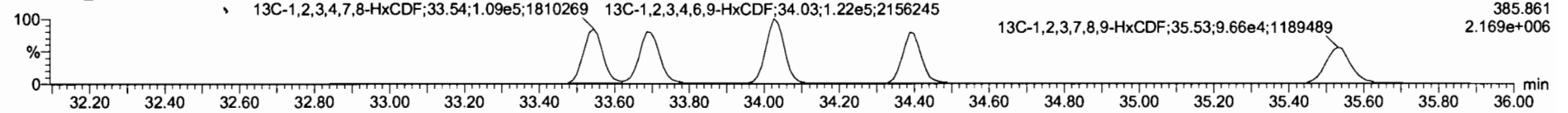


13C-1,2,3,4,7,8-HxCDF

210524D2_13

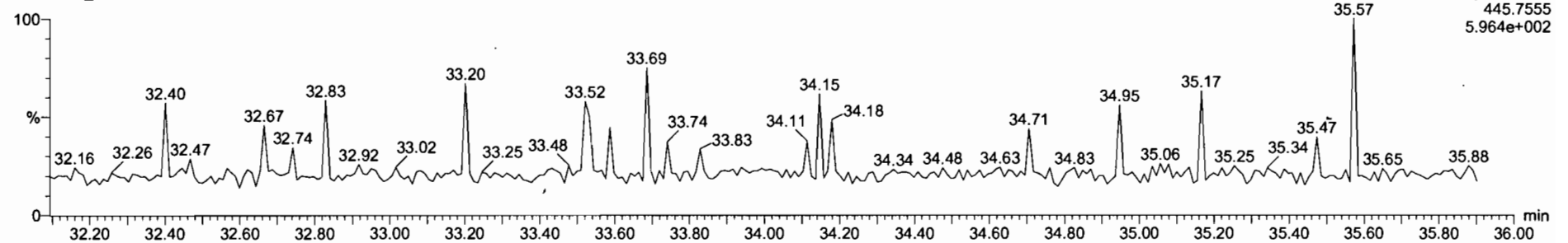


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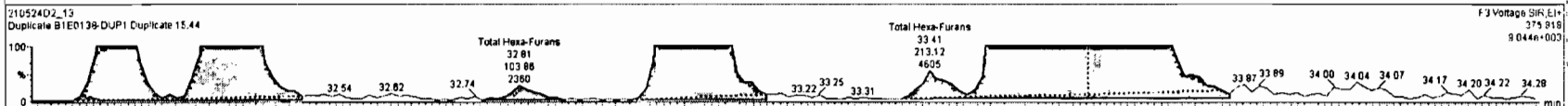
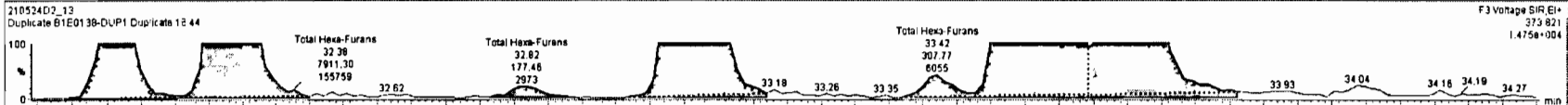
DPE3

210524D2_13



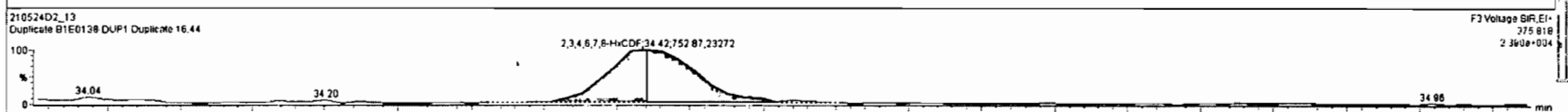
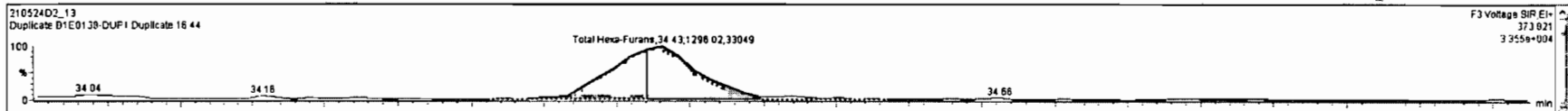
#	Name	Resp	RA	n/y	RRF	wtAvd	RT	RRT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxin				1.07	10.052			566		1.48	566
43	Total Tetra-Furans				0.86	10.052			93.2		0.137	96.8
44	1st Func. Penta-Furans				0.95	10.052			21.2		0.0511	21.2
45	Total Penta-Furans				0.95	10.052			116		0.369	116
46	Total Hexa-Furans				1.12	10.052			119		0.363	124
47	Total Hepta-Furans				1.16	10.052			131		0.458	131
48	PFK1											
49	PFK2											

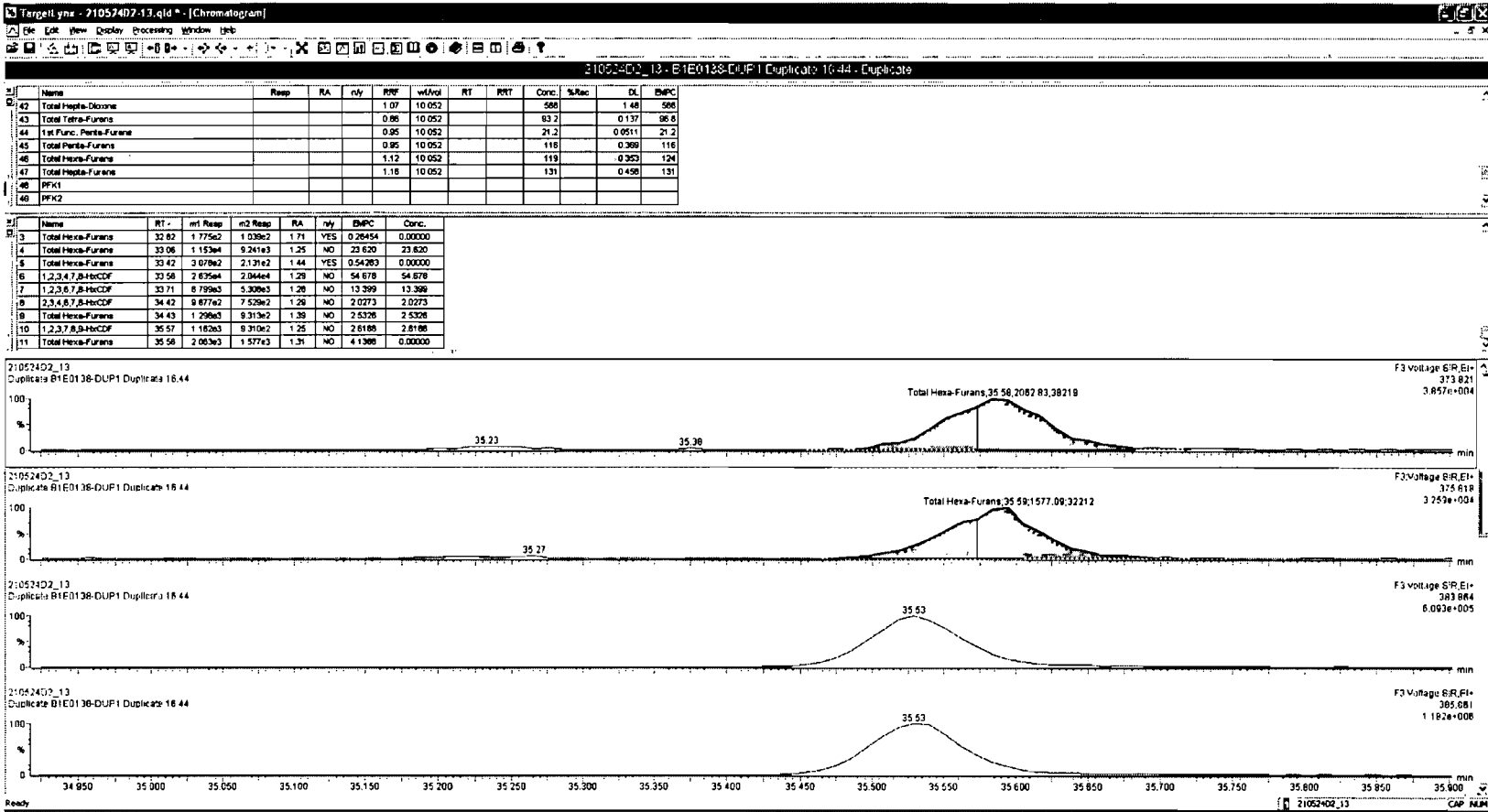
#	Name	RT	int Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.20	1.861e3	1.399e3	1.33	NO	3.7077	3.7077
2	Total Hexa-Furans	32.38	7.911e3	6.317e3	1.25	NO	16.178	16.178
3	Total Hexa-Furans	32.82	1.775e2	1.039e2	1.71	YES	0.26454	0.00000
4	Total Hexa-Furans	33.06	1.153e4	9.241e3	1.25	NO	23.620	23.620
5	Total Hexa-Furans	33.42	3.078e2	2.131e2	1.44	YES	0.54283	0.00000
6	1,2,3,4,7,8-HxCDF	33.56	2.635e4	2.044e4	1.29	NO	54.678	54.678
7	1,2,3,6,7,8-HxCDF	33.71	8.799e3	5.309e3	1.28	NO	13.399	13.399
8	2,3,4,6,7,8-HxCDF	34.42	9.677e2	7.529e2	1.29	NO	2.0273	2.0273
9	Total Hexa-Furans	34.43	1.298e3	9.313e2	1.39	NO	2.5328	2.5328



Name	Resp	RA	nHy	RFI	wtAval	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.052			566		1.48	566
43 Total Tetra-Furans				0.86	10.052			93.2		0.137	96.8
44 1st Func. Penta-Furans				0.95	10.052			21.2		0.0511	21.2
45 Total Penta-Furans				0.95	10.052			116		0.369	116
46 Total Hexa-Furans				1.12	10.052			119		0.352	124
47 Total Hepta-Furans				1.16	10.052			131		0.458	131
48 PFK1											
49 PFK2											

Name	RT	wt Resp	e2 Resp	RA	nHy	EMPC	Conc
3 Total Hexa-Furans	32.82	1.775e2	1.029e2	1.71	YES	0.28454	0.00000
4 Total Hexa-Furans	33.08	1.153e4	9.241e3	1.25	NO	23.620	23.620
5 Total Hexa-Furans	33.42	3.078e2	2.131e2	1.44	YES	0.54263	0.00000
6 1,2,3,4,7,8-HxCDF	33.58	2.635e4	2.044e4	1.29	NO	54.678	54.678
7 1,2,3,6,7,8-HxCDF	33.71	6.799e3	5.309e3	1.28	NO	13.399	13.399
8 2,3,4,6,7,8-HxCDF	34.42	9.877e2	7.529e2	1.29	NO	2.0273	2.0273
9 Total Hexa-Furans	34.43	1.299e3	9.313e2	1.39	NO	2.5326	2.5326
10 1,2,3,7,8-HxCDF	35.57	1.162e3	9.310e2	1.25	NO	2.6188	2.6188
11 Total Hexa-Furans	35.58	2.053e3	1.577e3	1.31	NO	4.1388	0.00000





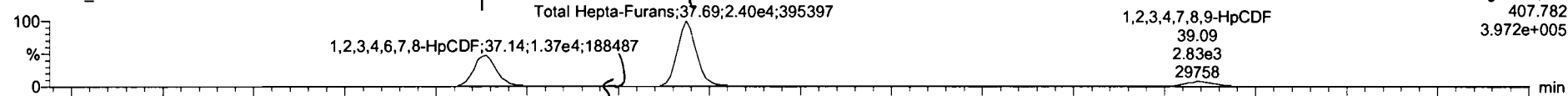
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Last Altered: Wednesday, May 26, 2021 12:12:19 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:12:44 Pacific Daylight Time

Name: 210524D2_13, Date: 25-May-2021, Time: 04:29:20, ID: B1E0138-DUP1 Duplicate 16.44, Description: Duplicate

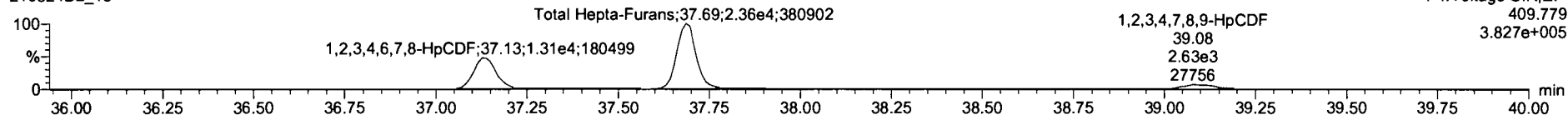
1,2,3,4,6,7,8-HpCDF

210524D2_13



F4:Voltage SIR,EI+
407.782
3.972e+005

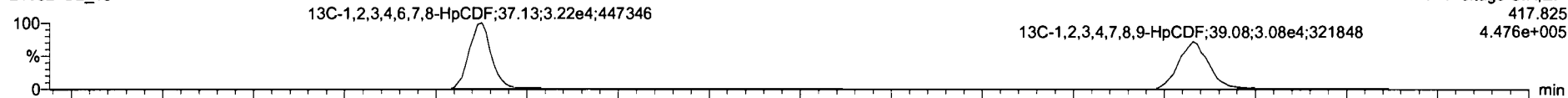
210524D2_13



F4:Voltage SIR,EI+
409.779
3.827e+005

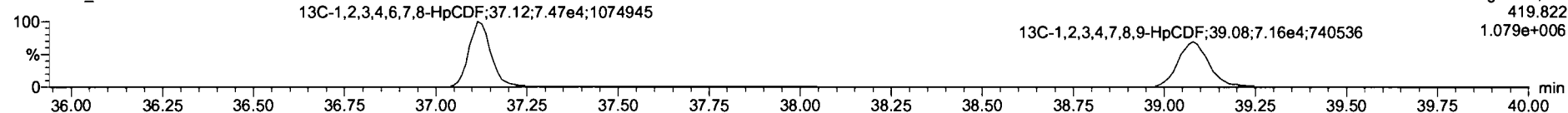
13C-1,2,3,4,6,7,8-HpCDF

210524D2_13



F4:Voltage SIR,EI+
417.825
4.476e+005

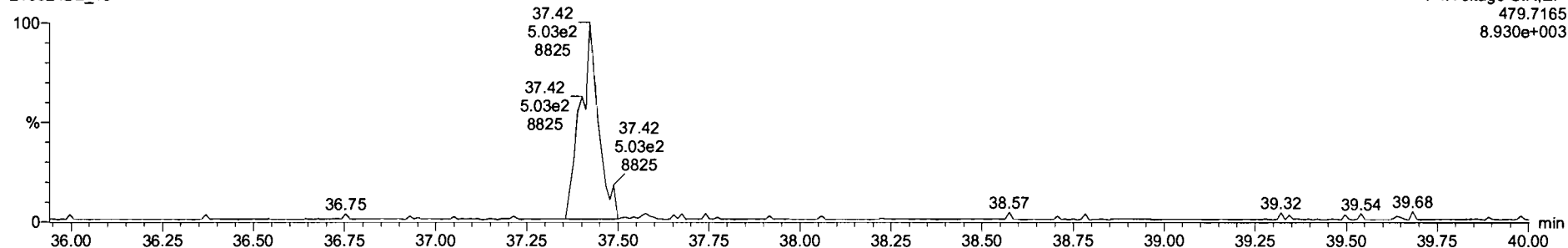
210524D2_13



F4:Voltage SIR,EI+
419.822
1.079e+006

DPE4

210524D2_13

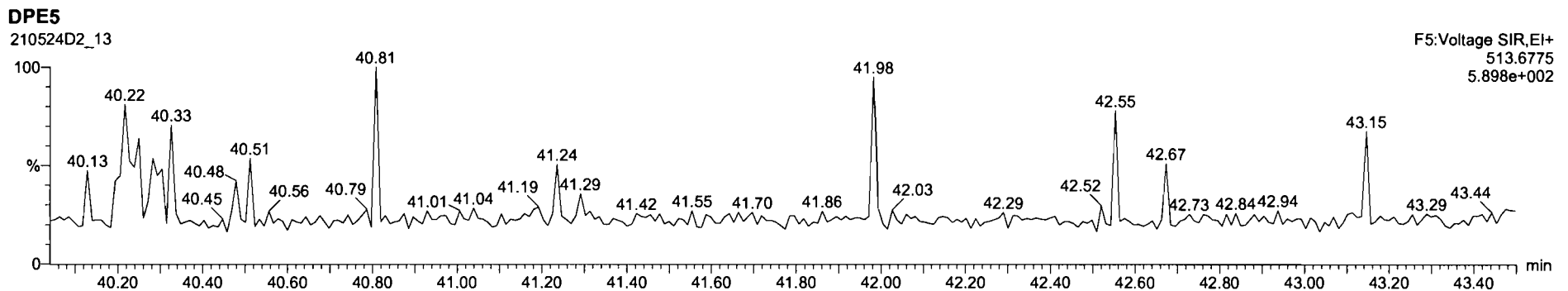
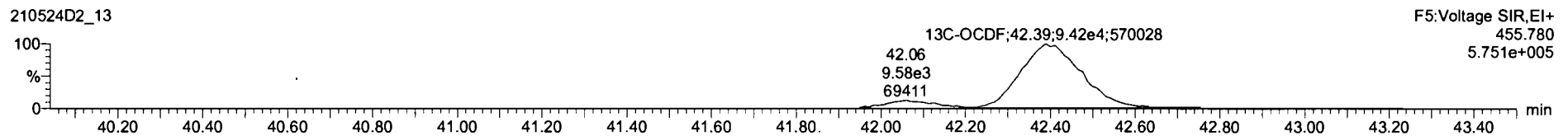
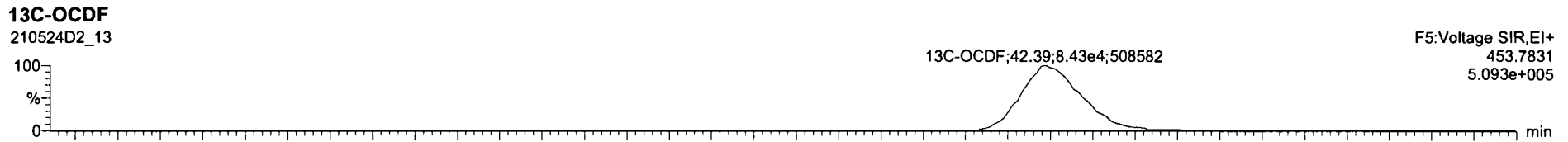
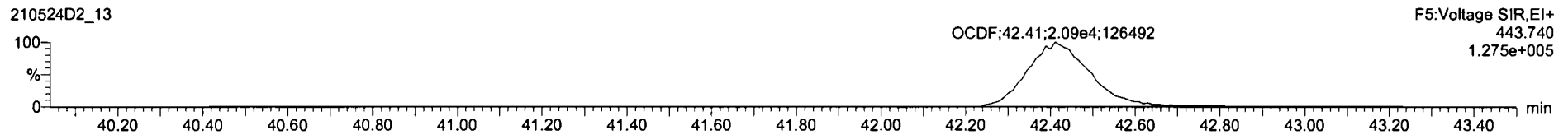
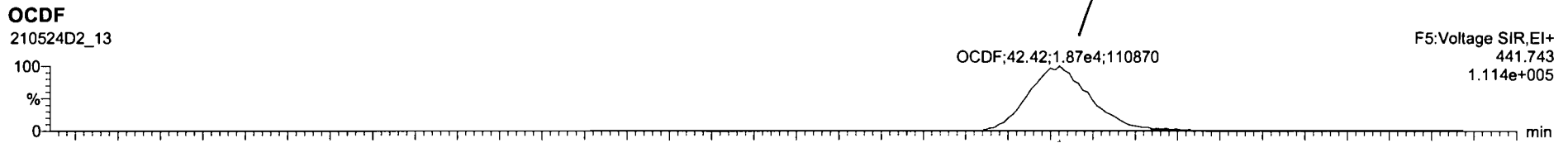


F4:Voltage SIR,EI+
479.7165
8.930e+003

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-13.qld

Last Altered: Wednesday, May 26, 2021 12:12:19 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:12:44 Pacific Daylight Time

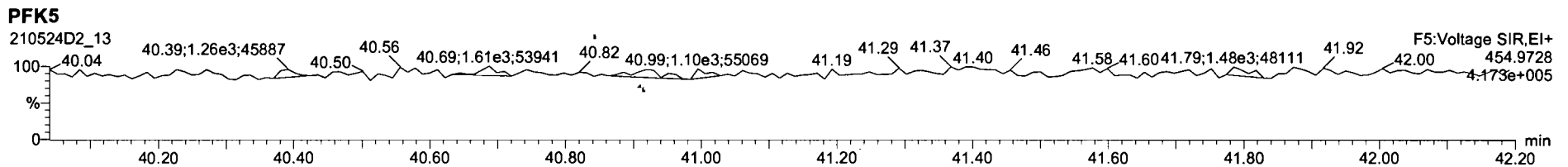
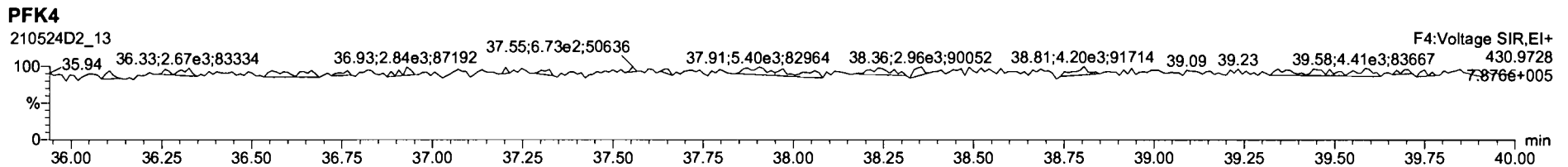
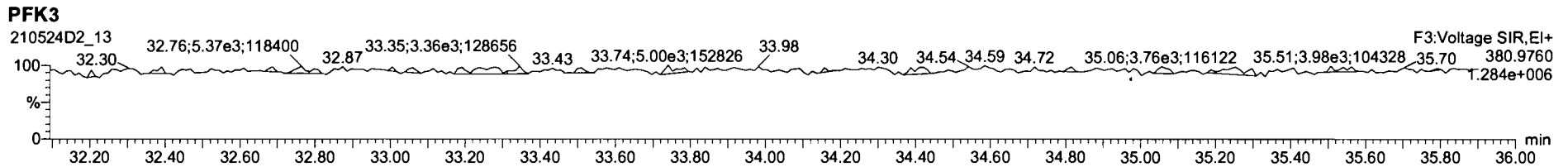
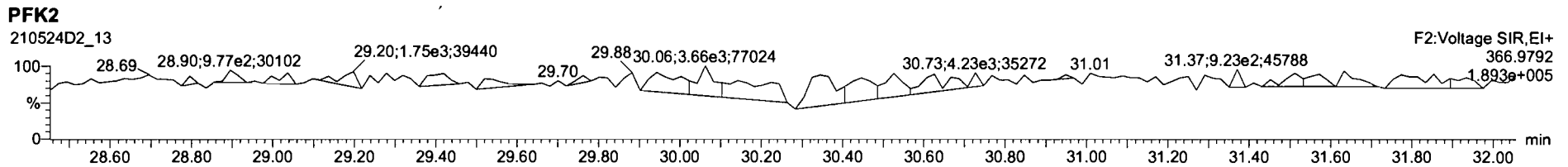
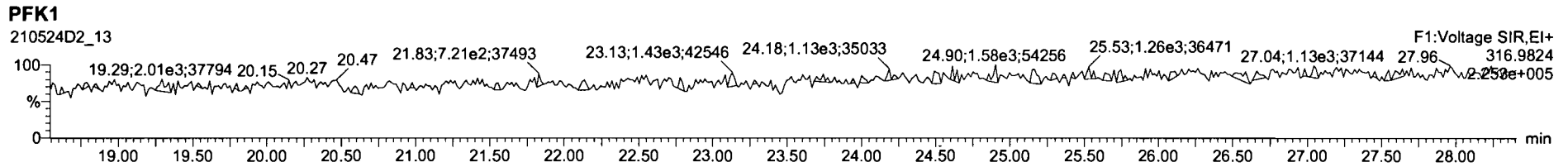
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Printed: Wednesday, May 26, 2021 12:12:44 Pacific Daylight Time

Name: 210524D2_13, Date: 25-May-2021, Time: 04:29:20, ID: B1E0138-DUP1 Duplicate 16.44, Description: Duplicate



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-14.qld

Last Altered: Wednesday, June 09, 2021 17:12:40 Pacific Daylight Time
Printed: Wednesday, June 09, 2021 17:14:20 Pacific Daylight Time

Hz 6.9.2021

C106/10/2021

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_14, Date: 25-May-2021, Time: 05:16:04, ID: 2105020-08 USMPDI-020SC-A-16-17.4-210429 17, Description: USMPDI-020SC-A-16-17.4-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	1.05	10.096					0.104	
2	1,2,3,7,8-PeCDD	6.32e1	0.74	YES	0.881	10.096	31.11	1.001	0.13023		0.149	0.122
3	1,2,3,4,7,8-HxCDD			NO	1.14	10.096					0.419	
4	1,2,3,6,7,8-HxCDD	5.84e2	1.32	NO	1.01	10.096	34.65	1.000	1.1844		0.442	1.18
5	1,2,3,7,8,9-HxCDD	1.74e2	1.07	NO	1.02	10.096	34.95	1.000	0.34014		0.419	0.340
6	1,2,3,4,6,7,8-HpCDD	4.49e4	1.06	NO	1.07	10.096	38.35	1.000	94.638		1.03	94.6
7	OCDD	2.58e5	0.86	NO	1.00	10.096	42.05	1.000	825.95		2.43	826
8	2,3,7,8-TCDF	2.17e3	0.74	NO	0.864	10.096	26.37	1.001	2.5566		0.143	2.56
9	1,2,3,7,8-PeCDF	2.60e3	1.70	NO	0.948	10.096	29.98	1.000	3.2888		0.172	3.29
10	2,3,4,7,8-PeCDF	1.99e3	1.52	NO	1.04	10.096	30.95	1.001	2.3164		0.135	2.32
11	1,2,3,4,7,8-HxCDF	2.91e3	1.28	NO	1.04	10.096	33.55	1.000	3.7676		0.178	3.77
12	1,2,3,6,7,8-HxCDF	9.98e2	1.17	NO	1.07	10.096	33.71	1.001	1.1392		0.167	1.14
13	2,3,4,6,7,8-HxCDF	1.58e2	1.29	NO	1.12	10.096	34.43	1.001	0.19813		0.191	0.198
14	1,2,3,7,8,9-HxCDF	1.55e2	1.27	NO	1.10	10.096	35.54	1.001	0.21991		0.241	0.220
15	1,2,3,4,6,7,8-HpCDF	3.77e3	1.10	NO	1.16	10.096	37.13	1.000	5.8553		0.190	5.86
16	1,2,3,4,7,8,9-HpCDF	5.33e2	1.02	NO	1.19	10.096	39.09	1.001	0.91245		0.246	0.912
17	OCDF	9.37e3	0.88	NO	0.909	10.096	42.40	1.000	22.802		1.53	22.8
18	13C-2,3,7,8-TCDD	1.08e5	0.77	NO	1.15	10.096	26.92	1.024	118.01	59.6	0.243	
19	13C-1,2,3,7,8-PeCDD	1.09e5	0.59	NO	0.887	10.096	31.09	1.183	153.51	77.5	0.357	
20	13C-1,2,3,4,7,8-HxCDD	8.03e4	1.30	NO	0.645	10.096	34.52	1.014	125.75	63.5	0.701	
21	13C-1,2,3,6,7,8-HxCDD	9.67e4	1.24	NO	0.717	10.096	34.65	1.018	136.28	68.8	0.631	
22	13C-1,2,3,7,8,9-HxCDD	9.96e4	1.22	NO	0.714	10.096	34.95	1.027	140.85	71.1	0.633	
23	13C-1,2,3,4,6,7,8-HpCDD	8.83e4	1.10	NO	0.583	10.096	38.35	1.127	152.90	77.2	0.698	
24	13C-OCDD	1.23e5	0.90	NO	0.451	10.096	42.05	1.235	276.34	69.7	0.827	
25	13C-2,3,7,8-TCDF	1.94e5	0.76	NO	1.09	10.096	26.36	1.003	116.87	59.0	0.250	
26	13C-1,2,3,7,8-PeCDF	1.65e5	1.59	NO	0.805	10.096	29.98	1.141	134.44	67.9	0.485	
27	13C-2,3,4,7,8-PeCDF	1.64e5	1.63	NO	0.792	10.096	30.93	1.177	135.87	68.6	0.493	
28	13C-1,2,3,4,7,8-HxCDF	1.47e5	0.50	NO	0.997	10.096	33.54	0.985	148.68	75.1	0.491	
29	13C-1,2,3,6,7,8-HxCDF	1.62e5	0.50	NO	1.03	10.096	33.69	0.990	158.63	80.1	0.476	
30	13C-2,3,4,6,7,8-HxCDF	1.42e5	0.51	NO	0.940	10.096	34.41	1.011	152.45	77.0	0.521	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-14.qld

Last Altered: Wednesday, June 09, 2021 17:12:40 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 17:14:20 Pacific Daylight Time

Name: 210524D2_14, Date: 25-May-2021, Time: 05:16:04, ID: 2105020-08 USMPDI-020SC-A-16-17.4-210429 17, Description: USMPDI-020SC-A-16-17.4-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.27e5	0.50	NO	0.852	10.096	35.51	1.043	150.67	76.1	0.575	
32	13C-1,2,3,4,6,7,8-HpCDF	1.10e5	0.41	NO	0.727	10.096	37.12	1.090	152.60	77.0	0.834	
33	13C-1,2,3,4,7,8,9-HpCDF	9.74e4	0.42	NO	0.608	10.096	39.07	1.148	161.84	81.7	0.997	
34	13C-OCDF	1.79e5	0.85	NO	0.631	10.096	42.40	1.246	287.01	72.4	2.18	
35	37Cl-2,3,7,8-TCDD	9.50e4			2.22	10.096	26.95	1.026	53.418	67.4	0.0402	
36	13C-1,2,3,4-TCDD	1.59e5	0.77	NO	1.00	10.096	26.28	1.000	198.09	100	0.278	
37	13C-1,2,3,4-TCDF	3.02e5	0.77	NO	1.00	10.096	25.04	1.000	198.09	100	0.272	
38	13C-1,2,3,4,6,9-HxCDF	1.96e5	0.51	NO	1.00	10.096	34.04	1.000	198.09	100	0.490	
39	Total Tetra-Dioxins				1.05	10.096			0.89438		0.104	0.894
40	Total Penta-Dioxins				0.881	10.096			0.46723		0.149	1.20
41	Total Hexa-Dioxins				1.01	10.096			19.056		0.444	19.8
42	Total Hepta-Dioxins				1.07	10.096			224.28		1.03	224
43	Total Tetra-Furans				0.864	10.096			8.9665		0.143	9.80
44	1st Func. Penta-Furans				0.948	10.096			2.5082		0.0574	2.51
45	Total Penta-Furans				0.948	10.096			9.9712		0.160	10.7
46	Total Hexa-Furans				1.12	10.096			11.682		0.186	11.7
47	Total Hepta-Furans				1.16	10.096			21.828		0.219	21.8

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-14.qld

Last Altered: Wednesday, June 09, 2021 17:12:40 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 17:14:20 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
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Name: 210524D2_14, Date: 25-May-2021, Time: 05:16:04, ID: 2105020-08 USMPDI-020SC-A-16-17.4-210429 17, Description: USMPDI-020SC-A-16-17.4-210429,
 Task: ST210524D2-1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	23.82	2.785e3	3.490e3	1.952e2	2.456e2	0.79	NO	4.409e2	0.76927	0.76927	0.104
2	Total Tetra-Dioxins	24.09	4.660e2	6.230e2	3.292e1	3.879e1	0.85	NO	7.171e1	0.12512	0.12512	0.104

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Penta-Dioxins	29.06	1.321e3	1.869e3	8.270e1	1.442e2	0.57	NO	2.269e2	0.46723	0.46723	0.149
2	Total Penta-Dioxins	29.96	3.387e3	2.144e3	1.801e2	1.312e2	1.37	YES	0.000e0	0.00000	0.44055	0.149
3	Total Penta-Dioxins	30.41	6.210e2	1.406e3	3.159e1	1.022e2	0.31	YES	0.000e0	0.00000	0.16832	0.149
4	1,2,3,7,8-PeCDD	31.11	9.510e2	7.990e2	2.693e1	3.631e1	0.74	YES	6.323e1	0.00000	0.12187	0.149

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Dioxins	32.78	3.910e4	3.410e4	2.324e3	1.926e3	1.21	NO	4.250e3	9.0331	9.0331	0.444
2	Total Hexa-Dioxins	33.40	4.720e3	2.676e3	2.515e2	1.575e2	1.60	YES	0.000e0	0.00000	0.74981	0.444
3	Total Hexa-Dioxins	33.72	2.434e4	1.945e4	1.885e3	1.432e3	1.32	NO	3.317e3	7.0496	7.0496	0.444
4	Total Hexa-Dioxins	33.82	3.905e3	2.759e3	2.761e2	2.025e2	1.36	NO	4.786e2	1.0172	1.0172	0.444
5	1,2,3,6,7,8-HxCDD	34.65	6.661e3	4.134e3	3.325e2	2.519e2	1.32	NO	5.844e2	1.1844	1.1844	0.442
6	Total Hexa-Dioxins	34.84	2.676e3	1.746e3	1.147e2	8.825e1	1.30	NO	2.029e2	0.43133	0.43133	0.444
7	1,2,3,7,8,9-HxCDD	34.95	2.079e3	1.992e3	9.009e1	8.420e1	1.07	NO	1.743e2	0.34014	0.34014	0.419

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hepta-Dioxins	37.44	4.231e5	4.113e5	3.104e4	3.051e4	1.02	NO	6.155e4	129.64	129.64	1.03
2	1,2,3,4,6,7,8-HpCDD	38.35	2.709e5	2.561e5	2.311e4	2.182e4	1.06	NO	4.493e4	94.638	94.638	1.03

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-14.qld

Last Altered: Wednesday, June 09, 2021 17:12:40 Pacific Daylight Time
 Printed: Wednesday, June 09, 2021 17:14:20 Pacific Daylight Time

Name: 210524D2_14, Date: 25-May-2021, Time: 05:16:04, ID: 2105020-08 USMPDI-020SC-A-16-17.4-210429 17, Description: USMPDI-020SC-A-16-17.4-210429, Task: ST210524D2-1

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Tetra-Furans	22.46	1.173e3	1.153e3	7.595e1	6.342e1	1.20	YES	0.000e0	0.00000	0.13247	0.143
Total Tetra-Furans	23.13	4.828e3	6.937e3	3.650e2	5.180e2	0.70	NO	8.830e2	1.0421	1.0421	0.143
Total Tetra-Furans	23.85	4.820e3	6.518e3	3.118e2	4.250e2	0.73	NO	7.368e2	0.86946	0.86946	0.143
Total Tetra-Furans	24.22	3.647e3	6.413e3	2.791e2	4.055e2	0.69	NO	6.846e2	0.80788	0.80788	0.143
Total Tetra-Furans	25.15	4.844e3	5.550e3	3.385e2	3.969e2	0.85	NO	7.354e2	0.86782	0.86782	0.143
Total Tetra-Furans	25.51	1.444e4	1.767e4	9.350e2	1.142e3	0.82	NO	2.077e3	2.4508	2.4508	0.143
Total Tetra-Furans	26.26	2.456e3	2.877e3	1.494e2	1.575e2	0.95	YES	0.000e0	0.00000	0.32894	0.143
2,3,7,8-TCDF	26.37	1.522e4	2.165e4	9.208e2	1.246e3	0.74	NO	2.166e3	2.5566	2.5566	0.143
Total Tetra-Furans	26.65	1.294e3	1.663e3	5.244e1	7.290e1	0.72	NO	1.253e2	0.14791	0.14791	0.143
Total Tetra-Furans	27.33	1.055e3	1.941e3	4.455e1	8.575e1	0.52	YES	0.000e0	0.00000	0.12084	0.143
Total Tetra-Furans	27.46	1.145e3	1.587e3	4.747e1	7.804e1	0.61	YES	0.000e0	0.00000	0.12878	0.143
Total Tetra-Furans	27.66	1.206e3	1.353e3	6.243e1	6.095e1	1.02	YES	0.000e0	0.00000	0.12731	0.143
Total Tetra-Furans	28.02	2.040e3	2.436e3	8.211e1	1.077e2	0.76	NO	1.898e2	0.22399	0.22399	0.143

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1st Func. Penta-Furans	27.66	2.035e4	1.395e4	1.246e3	7.289e2	1.71	NO	1.975e3	2.5082	2.5082	0.0574

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Furans	29.10	2.081e4	1.294e4	1.320e3	7.904e2	1.67	NO	2.110e3	2.6797	2.6797	0.160
Total Penta-Furans	29.64	4.395e3	3.352e3	2.720e2	2.105e2	1.29	YES	0.000e0	0.00000	0.56828	0.160
Total Penta-Furans	29.80	4.845e3	2.816e3	2.228e2	1.502e2	1.48	NO	3.730e2	0.47368	0.47368	0.160
1,2,3,7,8-PeCDF	29.98	3.053e4	1.694e4	1.636e3	9.610e2	1.70	NO	2.597e3	3.2888	3.2888	0.172
Total Penta-Furans	30.22	1.150e4	6.291e3	6.076e2	3.474e2	1.75	NO	9.550e2	1.2126	1.2126	0.160
2,3,4,7,8-PeCDF	30.95	2.547e4	1.480e4	1.202e3	7.886e2	1.52	NO	1.990e3	2.3164	2.3164	0.135
Total Penta-Furans	31.81	1.198e3	9.930e2	7.156e1	6.821e1	1.05	YES	0.000e0	0.00000	0.14949	0.160

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Printed: Wednesday, June 09, 2021 17:14:20 Pacific Daylight Time

Name: 210524D2_14, Date: 25-May-2021, Time: 05:16:04, ID: 2105020-08 USMPDI-020SC-A-16-17.4-210429 17, Description: USMPDI-020SC-A-16-17.4-210429, Task: ST210524D2-1

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Hexa-Furans	32.20	4.877e3	3.768e3	2.251e2	1.742e2	1.29	NO	3.993e2	0.49058	0.49058	0.186
2	Total Hexa-Furans	32.38	1.565e4	1.199e4	8.535e2	6.569e2	1.30	NO	1.510e3	1.8554	1.8554	0.186
3	Total Hexa-Furans	33.06	3.387e4	2.370e4	1.513e3	1.170e3	1.29	NO	2.683e3	3.2954	3.2954	0.186
4	1,2,3,4,7,8-HxCDF	33.55	3.039e4	2.118e4	1.634e3	1.278e3	1.28	NO	2.913e3	3.7676	3.7676	0.178
5	1,2,3,6,7,8-HxCDF	33.71	8.556e3	7.462e3	5.385e2	4.595e2	1.17	NO	9.980e2	1.1392	1.1392	0.167
6	2,3,4,6,7,8-HxCDF	34.43	2.986e3	3.648e3	8.935e1	6.915e1	1.29	NO	1.585e2	0.19813	0.19813	0.191
7	Total Hexa-Furans	34.45	3.925e3	3.648e3	1.648e2	1.159e2	1.42	NO	2.807e2	0.34484	0.34484	0.186
8	1,2,3,7,8,9-HxCDF	35.54	2.837e3	2.620e3	8.673e1	6.837e1	1.27	NO	1.551e2	0.21991	0.21991	0.241
9	Total Hexa-Furans	35.56	3.618e3	3.362e3	1.712e2	1.310e2	1.31	NO	3.022e2	0.37121	0.37121	0.186

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.13	3.061e4	2.355e4	1.970e3	1.795e3	1.10	NO	3.766e3	5.8553	5.8553	0.190
2	Total Hepta-Furans	37.72	6.027e4	5.835e4	4.541e3	4.598e3	0.99	NO	9.139e3	15.061	15.061	0.219
3	1,2,3,4,7,8,9-HpCDF	39.09	3.165e3	3.318e3	2.686e2	2.641e2	1.02	NO	5.327e2	0.91245	0.91245	0.246

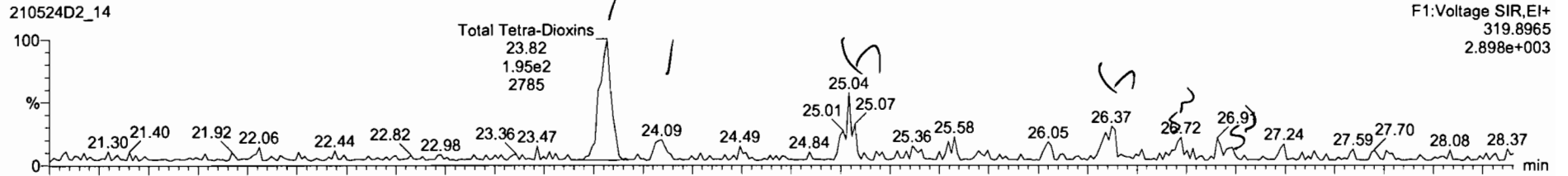
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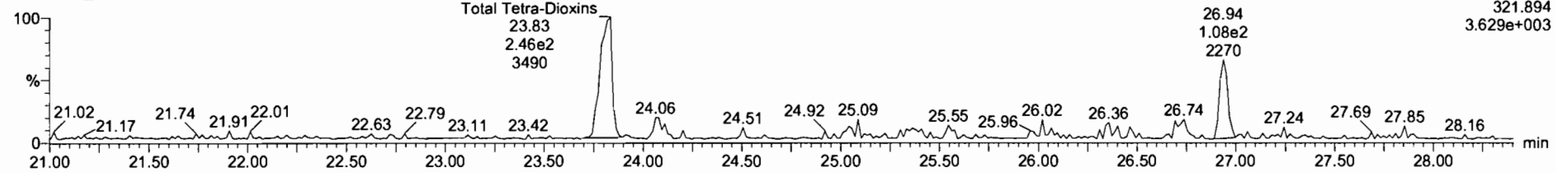
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Name: 210524D2_14, Date: 25-May-2021, Time: 05:16:04, ID: 2105020-08 USMPDI-020SC-A-16-17.4-210429 17, Description: USMPDI-020SC-A-16-17.4-210429

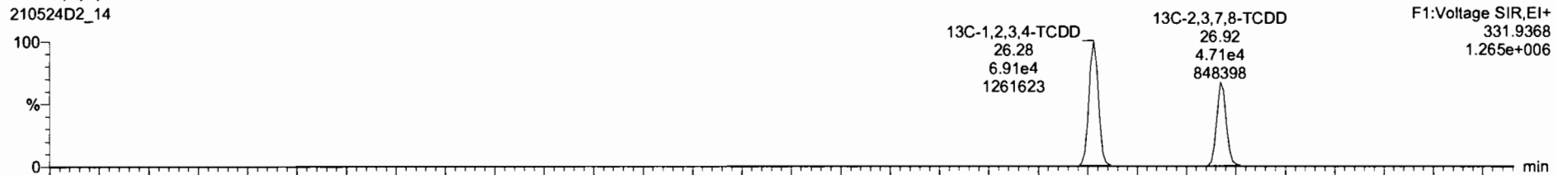
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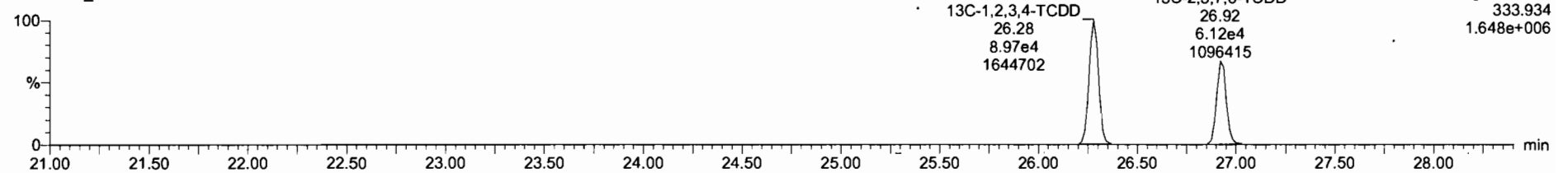
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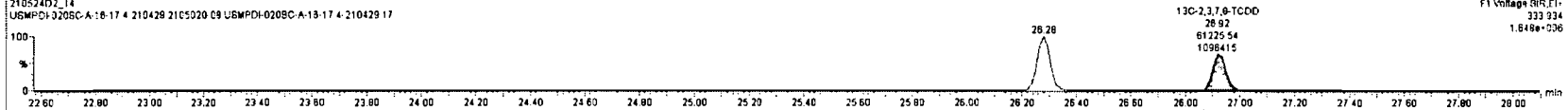
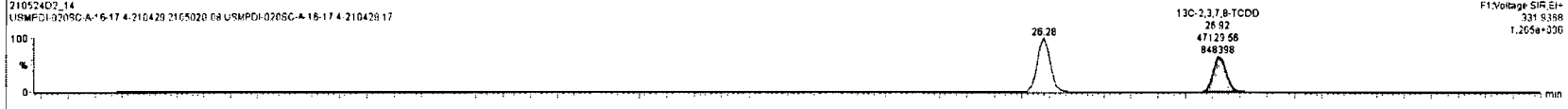
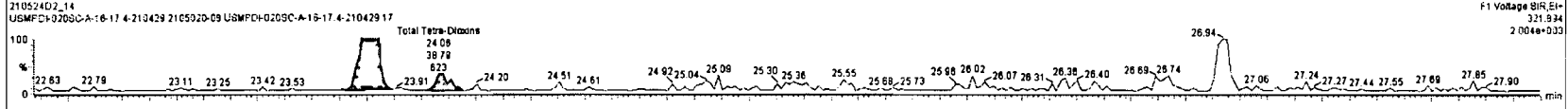
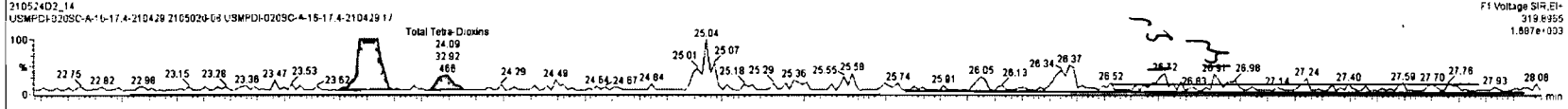


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Name	Resp	RA	rly	RFV	WtAve	RT	RRT	Conc.	%Rec	DL	EMPC
13C-1,2,3,4,7,8-HxCDD	8.03e4	1.30	NO	0.65	10.096	34.52	1.014	126	83.5	0.701	
13C-1,2,3,6,7,8-HxCDD	9.87e4	1.24	NO	0.72	10.096	34.85	1.018	136	88.8	0.631	
13C-1,2,3,7,8-HxCDD	9.98e4	1.22	NO	0.71	10.096	34.95	1.027	141	71.1	0.633	
13C-1,2,3,4,6,7,8-HxCDD	8.83e4	1.10	NO	0.58	10.096	36.35	1.127	153	77.2	0.698	
13C-OCDD	1.23e5	0.80	NO	0.45	10.096	42.05	1.235	278	86.7	0.827	
13C-2,3,7,8-TCDF	1.94e5	0.76	NO	1.09	10.096	26.36	1.003	117	59.0	0.250	
13C-1,2,3,7,8-PeCDF	1.85e5	1.59	NO	0.80	10.096	29.98	1.141	134	87.9	0.485	
13C-2,3,4,7,8-PeCDF	1.84e5	1.63	NO	0.78	10.096	30.93	1.177	136	66.6	0.493	

Name	RT	m1 Resp	m2 Resp	RA	rly	EMPC	Conc.
Total Tetra-Dioxins	23.82	1.952e2	2.455e2	0.79	NO	0.78827	0.78827
Total Tetra-Chloro	24.09	3.252e1	3.879e1	0.85	NO	0.12512	0.12512



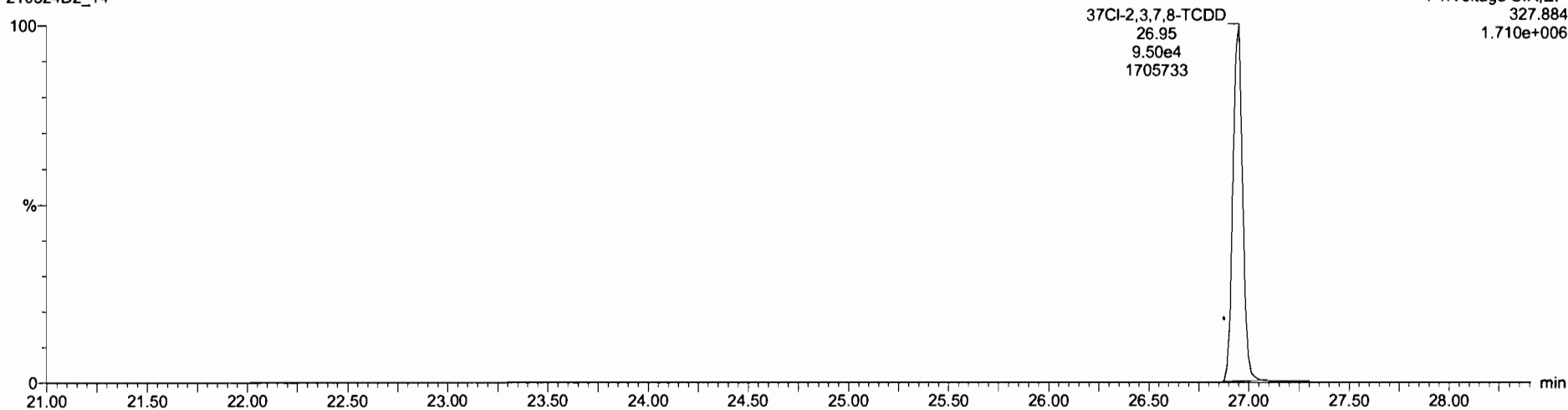
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Name: 210524D2_14, Date: 25-May-2021, Time: 05:16:04, ID: 2105020-08 USMPDI-020SC-A-16-17.4-210429 17, Description: USMPDI-020SC-A-16-17.4-210429

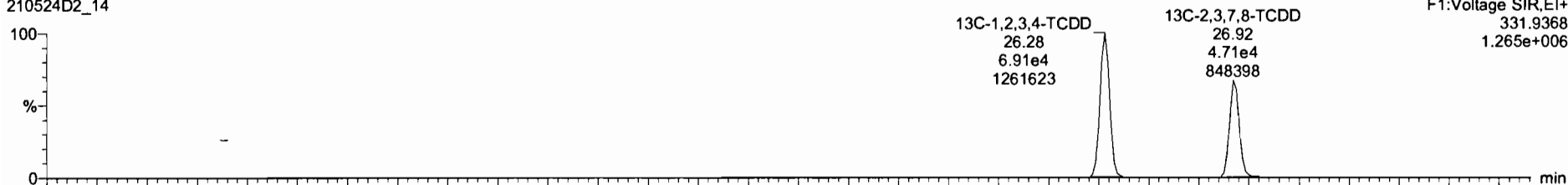
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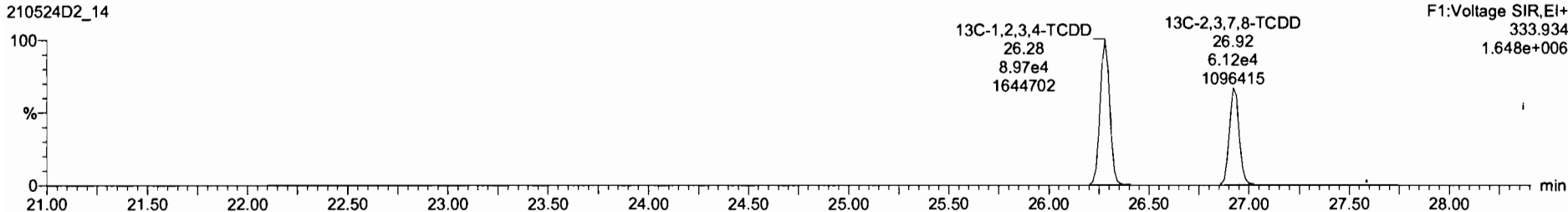


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210524D2_14



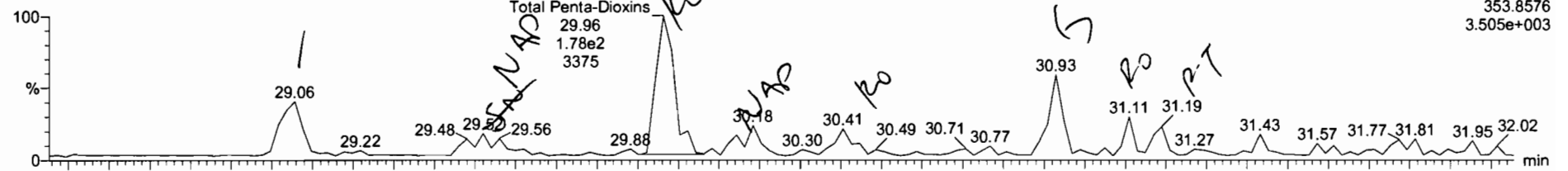
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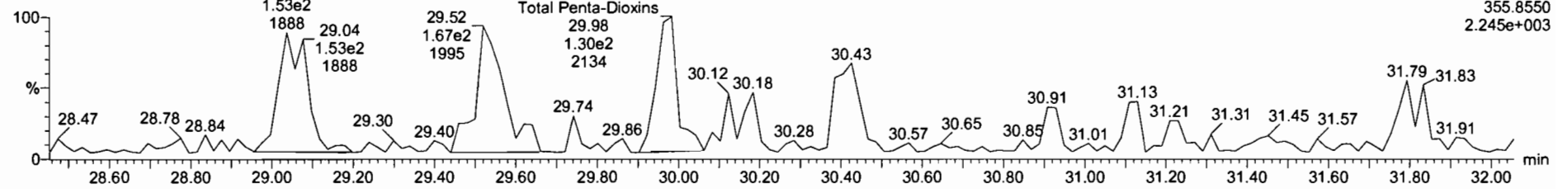
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1,2,3,7,8-PeCDD

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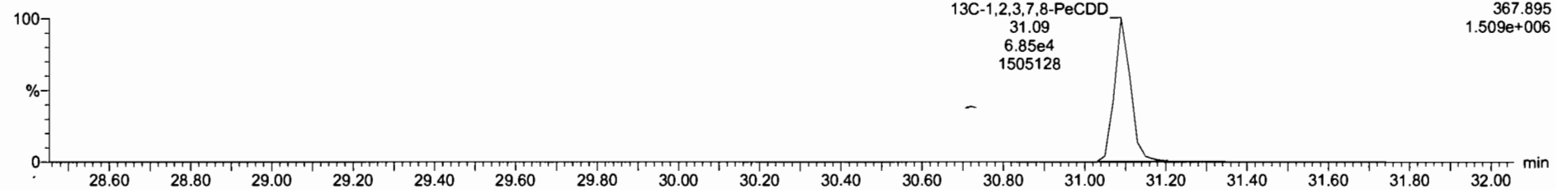


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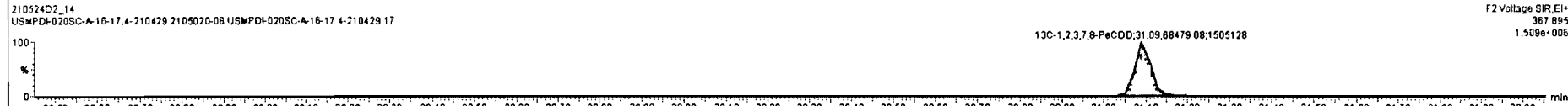
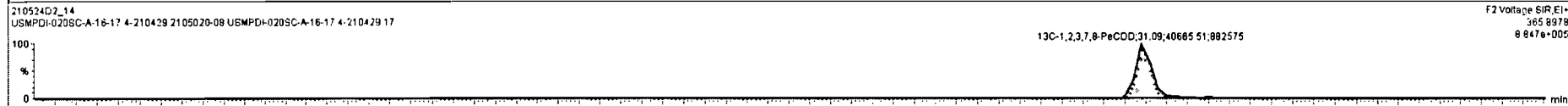
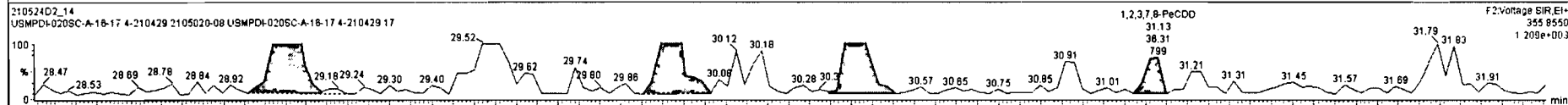
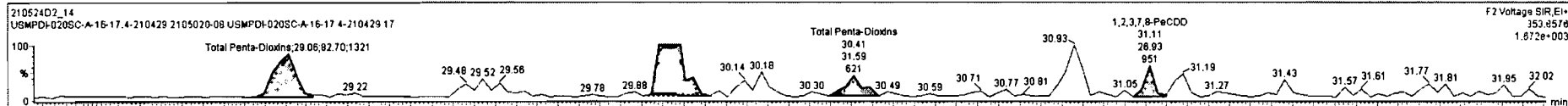
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210524D2_14 - 2105020-09 USMPDI-020SC-A-16-17 4-210429 17 - USMPDI-020SC-A-16-17 4-210429

Name	Resp	RA	n/y	R/R	w/Aval	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.88	10.096			0.457	0.143	1.20	
41 Total Hexa-Dioxins				1.01	10.096			17.8	0.444	18.6	
42 Total Hepta-Dioxins				1.07	10.096			224	1.03	224	
43 Total Tetra-Furans				0.86	10.096			8.01	0.143	8.81	
44 1st Func. Penta-Furans				0.95	10.096			2.51	0.0574	2.51	
45 Total Penta-Furans				0.95	10.096			10.4	0.180	10.4	
46 Total Hexa-Furans				1.12	10.096			11.0	0.186	11.5	
47 Total Hepta-Furans				1.16	10.096			21.8	0.219	21.8	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	29.08	8.270e1	1.442e2	0.57	NO	0.46723	0.46723
2 Total Penta-Dioxins	29.95	1.801e2	1.312e2	1.37	YES	0.44055	0.00000
3 Total Penta-Dioxins	30.41	3.159e1	1.022e2	0.31	YES	0.16832	0.00000
4 1,2,3,7,8-PeCDD	31.11	2.693e1	3.631e1	0.74	YES	0.12187	0.00000



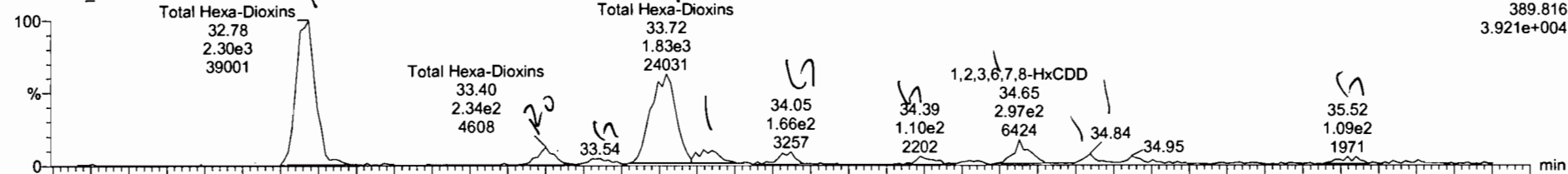
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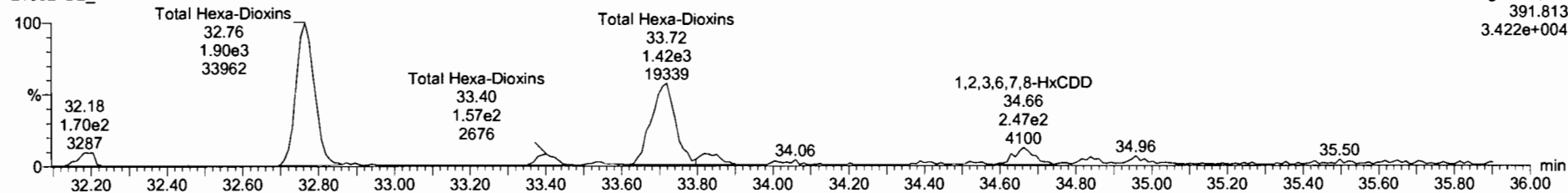
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1,2,3,4,7,8-HxCDD

210524D2_14

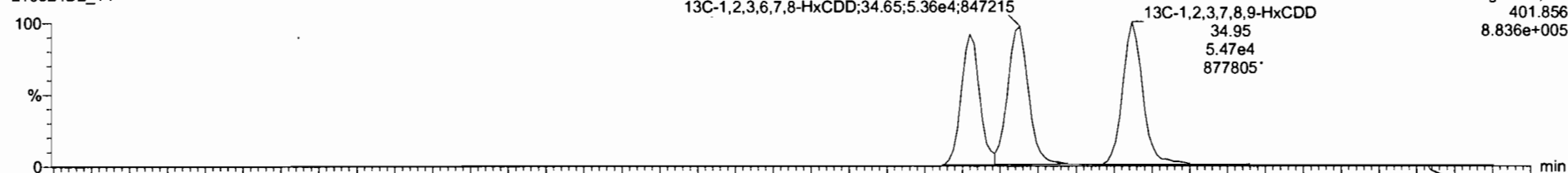


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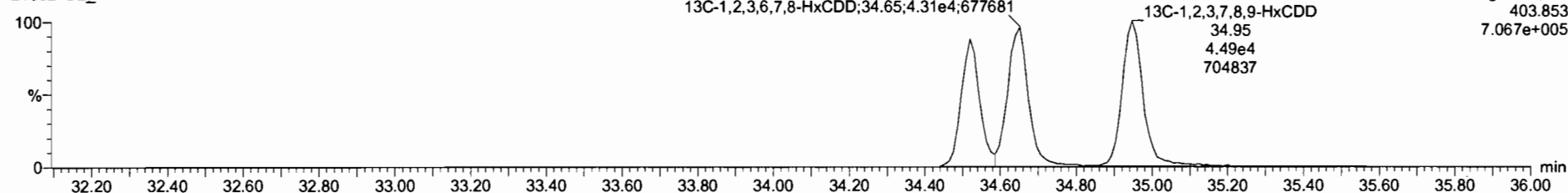


13C-1,2,3,4,7,8-HxCDD

210524D2_14

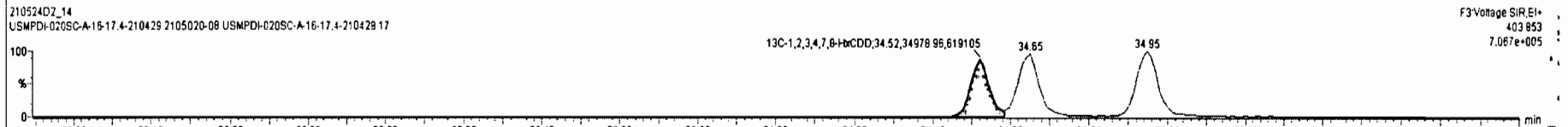
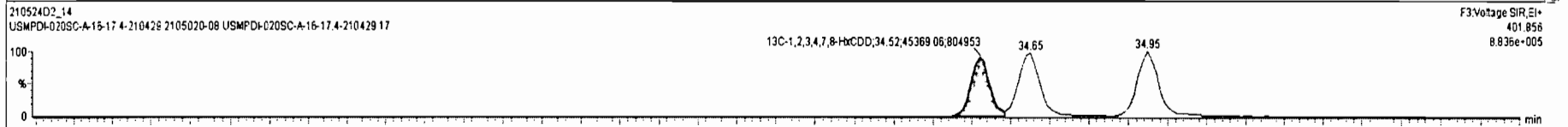
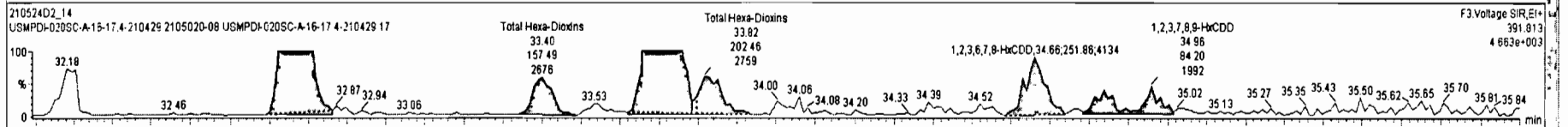
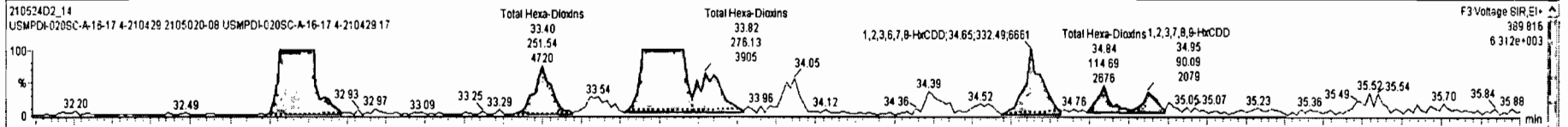


210524D2_14



Name	Resp	RA	n/y	RRF	wAvol	RT	RR1	Conc	%Rec	DL	EMPC
27 13C-2,3,4,7,8-PeCDF	1.64e5	1.63	NO	0.79	10.096	30.93	1.177	136	88.6	0.493	
28 13C-1,2,3,4,7,8-HxCDF	1.47e5	0.50	NO	1.00	10.096	33.54	0.985	149	75.1	0.491	
29 13C-1,2,3,6,7,8-HxCDF	1.62e5	0.50	NO	1.03	10.096	33.69	0.990	158	80.1	0.478	
30 13C-2,3,4,6,7,8-HxCDF	1.42e5	0.51	NO	0.94	10.096	34.41	1.011	152	77.0	0.521	
31 13C-1,2,3,7,8,9-HxCDF	1.27e5	0.50	NO	0.85	10.096	35.51	1.043	151	76.1	0.575	
32 13C-1,2,3,4,6,7,8-HpCDF	1.10e5	0.41	NO	0.73	10.096	37.12	1.090	153	77.0	0.834	
33 13C-1,2,3,4,7,8,9-HpCDF	9.74e4	0.42	NO	0.61	10.096	39.07	1.148	162	81.7	0.997	
34 13C-OCDF	1.79e5	0.85	NO	0.63	10.096	42.40	1.246	267	72.4	2.18	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.78	2.324e3	1.926e3	1.21	NO	9.0331	9.0331
2 Total Hexa-Dioxins	33.40	2.515e2	1.575e2	1.60	YES	0.74981	0.00000
3 Total Hexa-Dioxins	33.72	1.885e3	1.432e3	1.32	NO	7.0496	7.0496
4 Total Hexa-Dioxins	33.82	2.761e2	2.025e2	1.36	NO	1.0172	1.0172
5 1,2,3,6,7,8-HxCDD	34.65	3.325e2	2.519e2	1.32	NO	1.1844	1.1844
6 Total Hexa-Dioxins	34.84	1.147e2	8.825e1	1.30	NO	0.43133	0.43133
7 1,2,3,7,8,9-HxCDD	34.95	9.009e1	8.420e1	1.07	NO	0.34014	0.34014



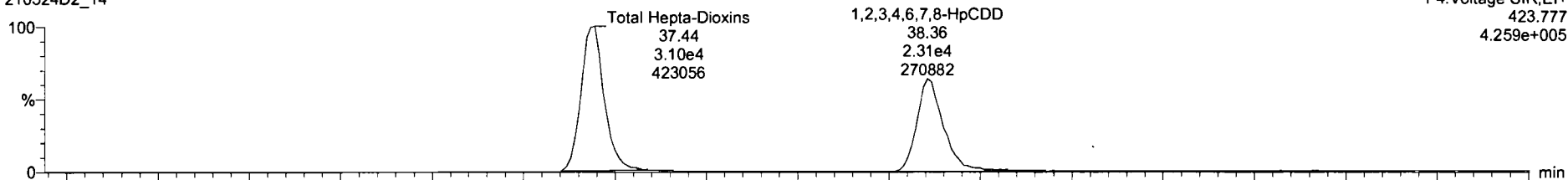
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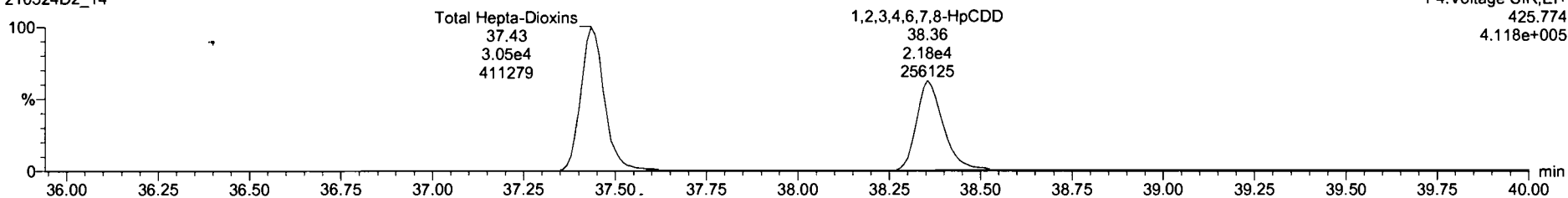
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1,2,3,4,6,7,8-HpCDD

210524D2_14

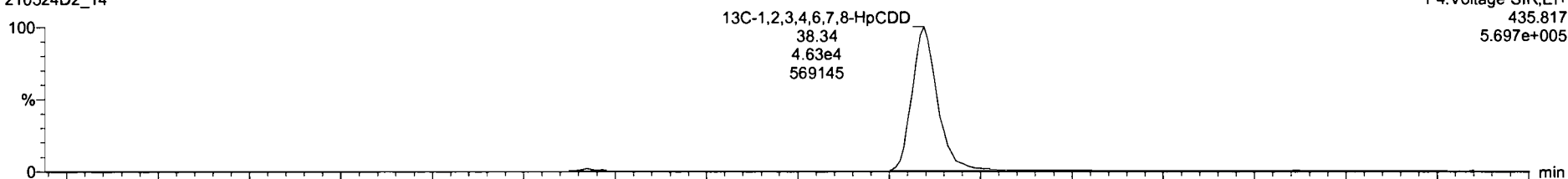


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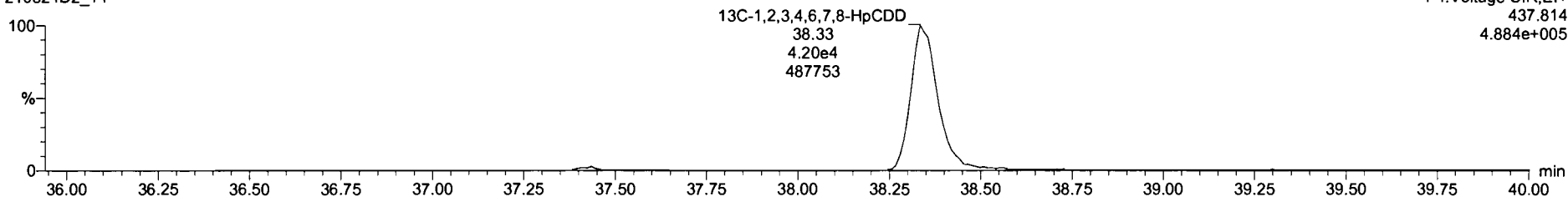


13C-1,2,3,4,6,7,8-HpCDD

210524D2_14



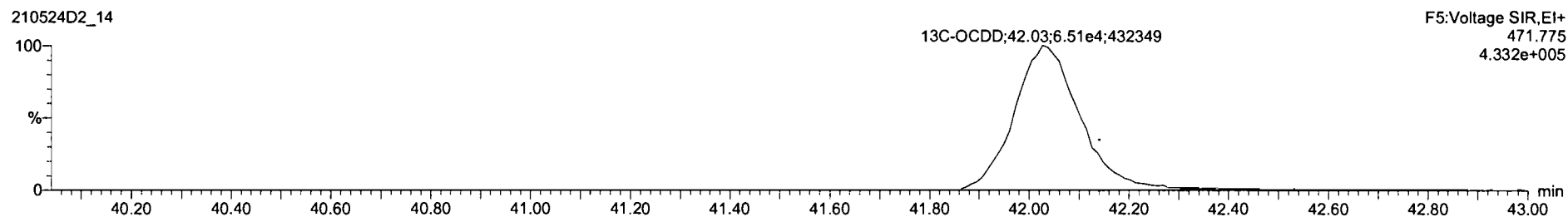
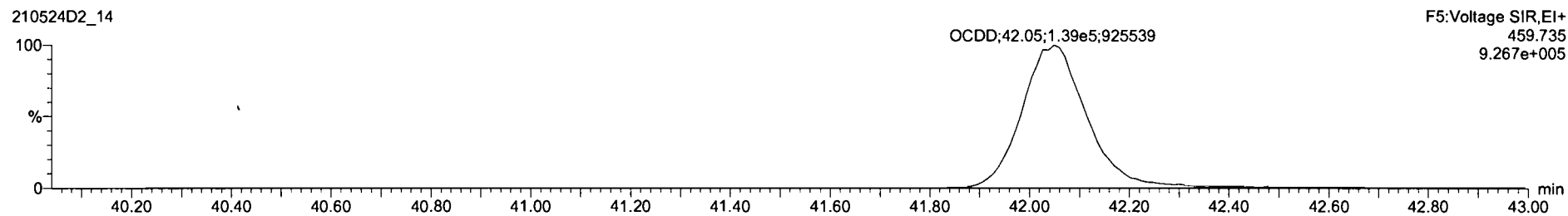
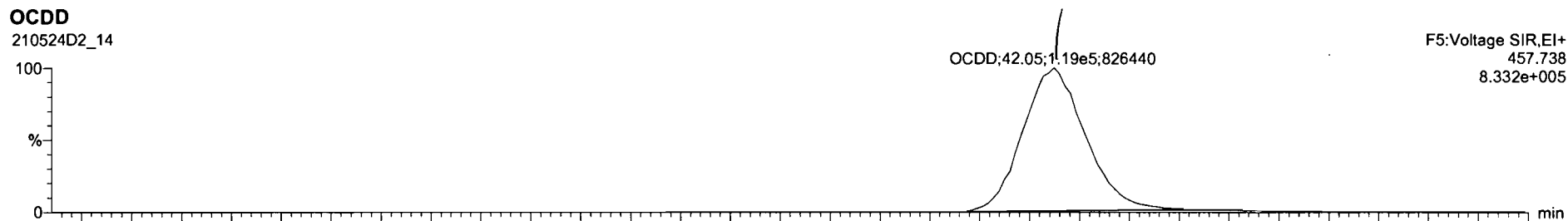
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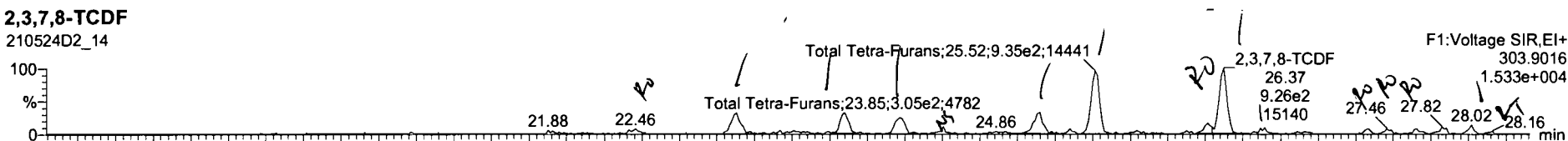


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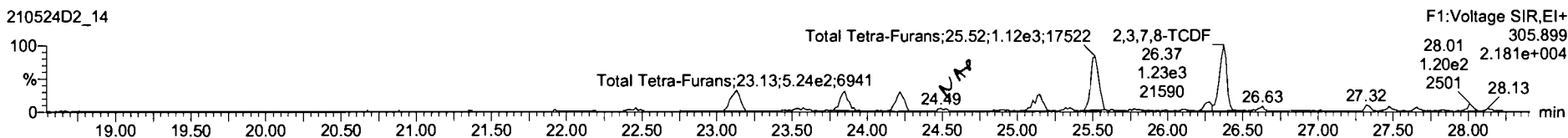
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2,3,7,8-TCDF
210524D2_14



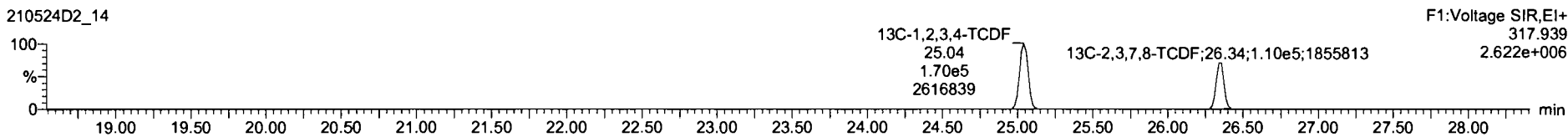
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13C-2,3,7,8-TCDF
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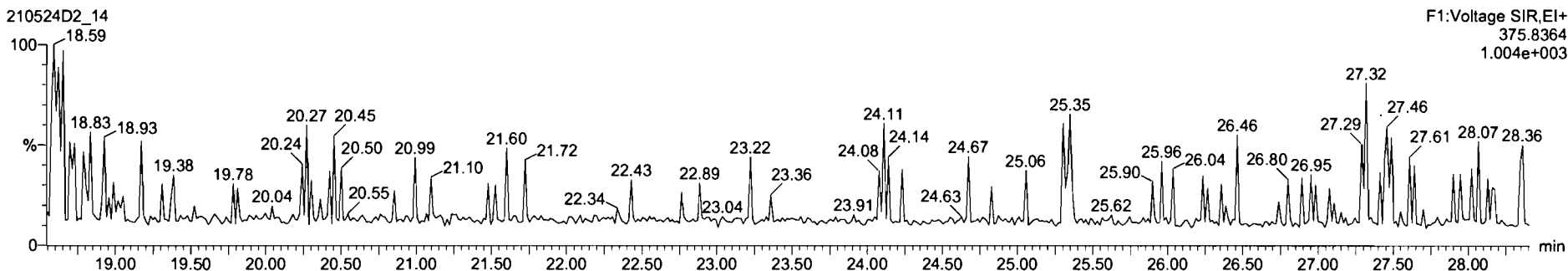


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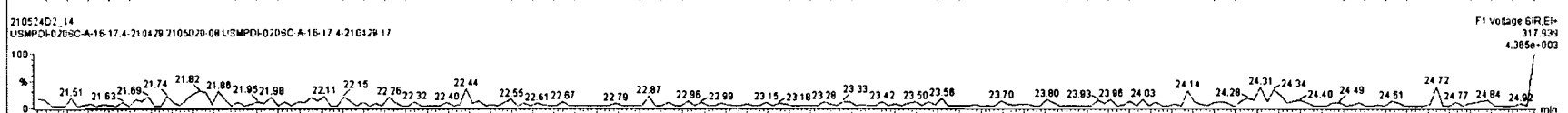
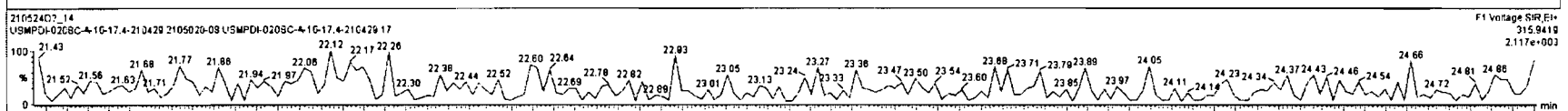
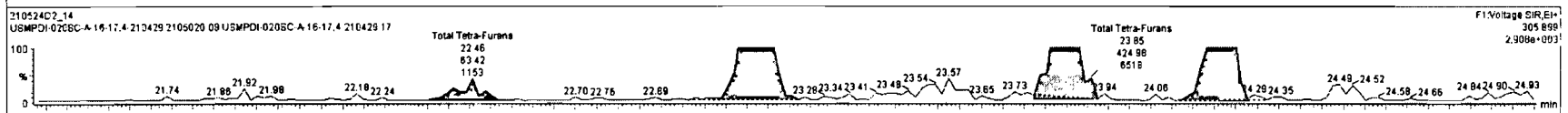
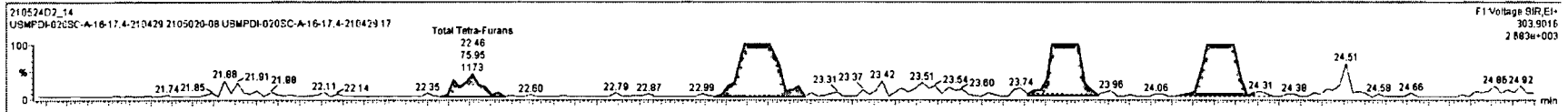
DPE1

210524D2_14



#	Name	Rtsp	RA	rvy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				1.07	10.096			224	1.03	224	
43	Total Tetra-Furans				0.86	10.096			8.82	0.143	9.88	
44	1st Func. Penta-Furans				0.95	10.096			2.51	0.0574	2.51	
45	Total Penta-Furans				0.95	10.096			10.4	0.180	10.4	
46	Total Hexa-Furans				1.12	10.096			11.0	0.186	11.3	
47	Total Hepta-Furans				1.18	10.096			21.6	0.219	21.8	
48	PK1											
49	PK2											

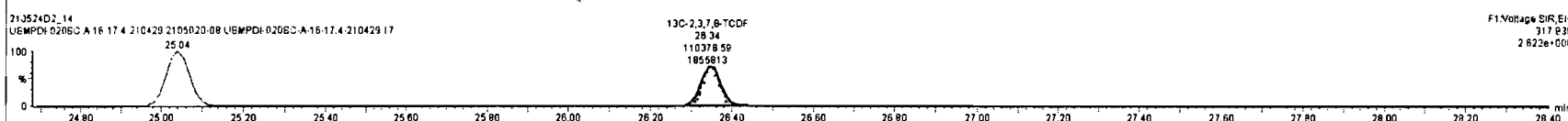
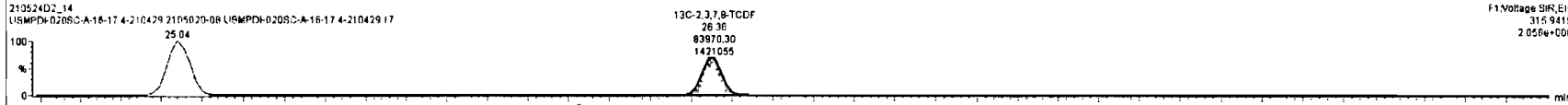
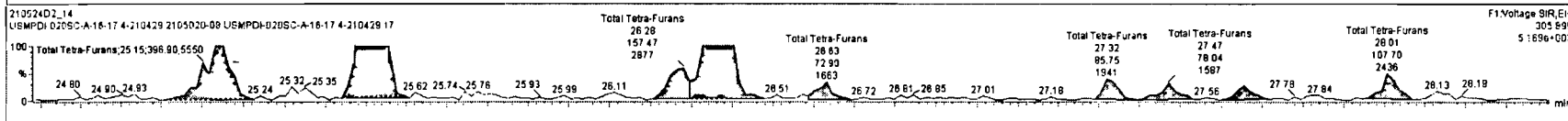
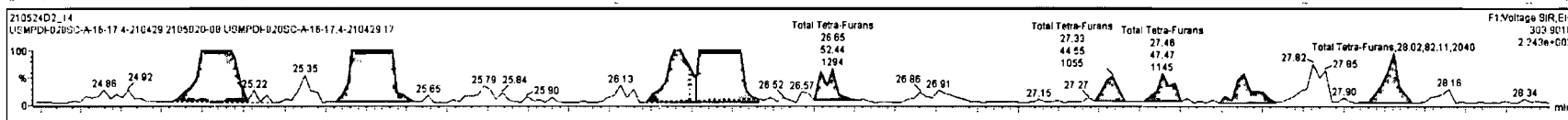
#	Name	RT	alt Resp	alt Resp	RA	rvy	EMPC	Conc.
1	Total Tetra-Furans	22.46	7.595e1	6.342e1	1.20	YES	0.13247	0.00000
2	Total Tetra-Furans	23.13	3.850e2	5.180e2	0.70	NO	1.0421	1.0421
3	Total Tetra-Furans	23.85	3.118e2	4.250e2	0.73	NO	0.86946	0.86946
4	Total Tetra-Furans	24.22	2.791e2	4.055e2	0.69	NO	0.80788	0.80788
5	Total Tetra-Furans	25.15	3.395e2	3.989e2	0.85	NO	0.86782	0.86782
6	Total Tetra-Furans	25.51	8.350e2	1.142e3	0.82	NO	2.4508	2.4508
7	Total Tetra-Furans	26.26	1.494e2	1.575e2	0.95	YES	0.32894	0.00000
8	2,3,7,8-TCDF	26.37	9.209e2	1.248e3	0.74	NO	2.5668	2.5668
9	Total Tetra-Furans	27.33	4.455e1	6.575e1	0.52	YES	0.12084	0.00000



21052402_14 - 2105020-08 USMPCD-020SC-A-16-17.4-210429 17 - USMPCD-020SC-A-16-17.4-210429

Name	Resp	RA	nHy	RF	wtAvr	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.098			224	1.03	224	
43 Total Tetra-Furans				0.88	10.098			8.97	0.143	9.80	
44 1st Func. Penta-Furans				0.95	10.098			2.51	0.0574	2.51	
45 Total Penta-Furans				0.95	10.098			10.4	0.160	10.4	
46 Total Hexa-Furans				1.12	10.098			11.0	0.196	11.5	
47 Total Hepta-Furans				1.16	10.098			21.8	0.219	21.8	
48 PPK1											
49 PPK2											

Name	RT - 1	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc
1 Total Tetra-Furans	22.46	7.595e1	6.342e1	1.20	YES	0.13247	0.00000
2 Total Tetra-Furans	23.13	3.650e2	5.190e2	0.70	NO	1.0421	1.0421
3 Total Tetra-Furans	23.85	3.118e2	4.250e2	0.73	NO	0.86946	0.86946
4 Total Tetra-Furans	24.22	2.791e2	4.055e2	0.69	NO	0.80798	0.80798
5 Total Tetra-Furans	25.15	3.385e2	3.969e2	0.85	NO	0.86782	0.86782
6 Total Tetra-Furans	25.51	9.350e2	1.142e3	0.82	NO	2.4508	2.4508
7 Total Tetra-Furans	26.26	1.494e2	1.575e2	0.95	YES	0.32894	0.00000
8 2,3,7,8-TCDF	26.37	9.208e2	1.246e3	0.74	NO	2.5566	2.5566
9 Total Tetra-Furans	26.65	5.244e1	7.280e1	0.72	NO	0.14791	0.14791



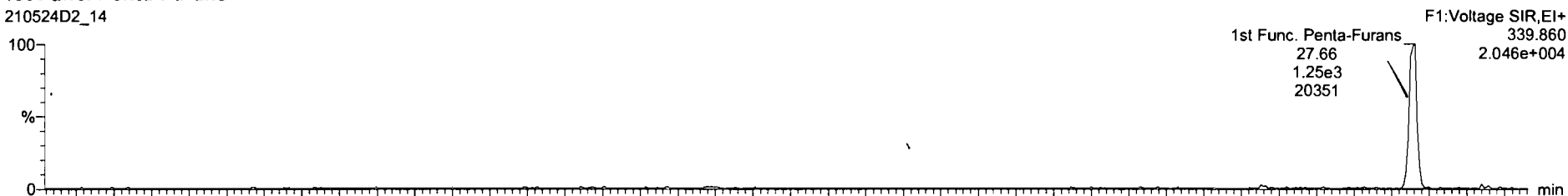
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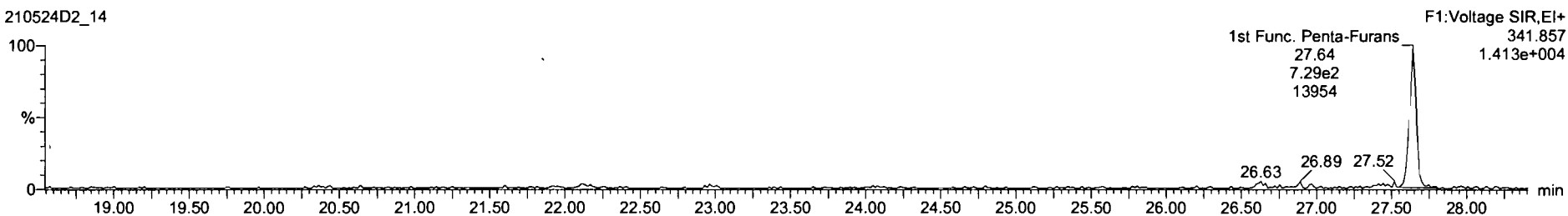
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1st Func. Penta-Furans

210524D2_14

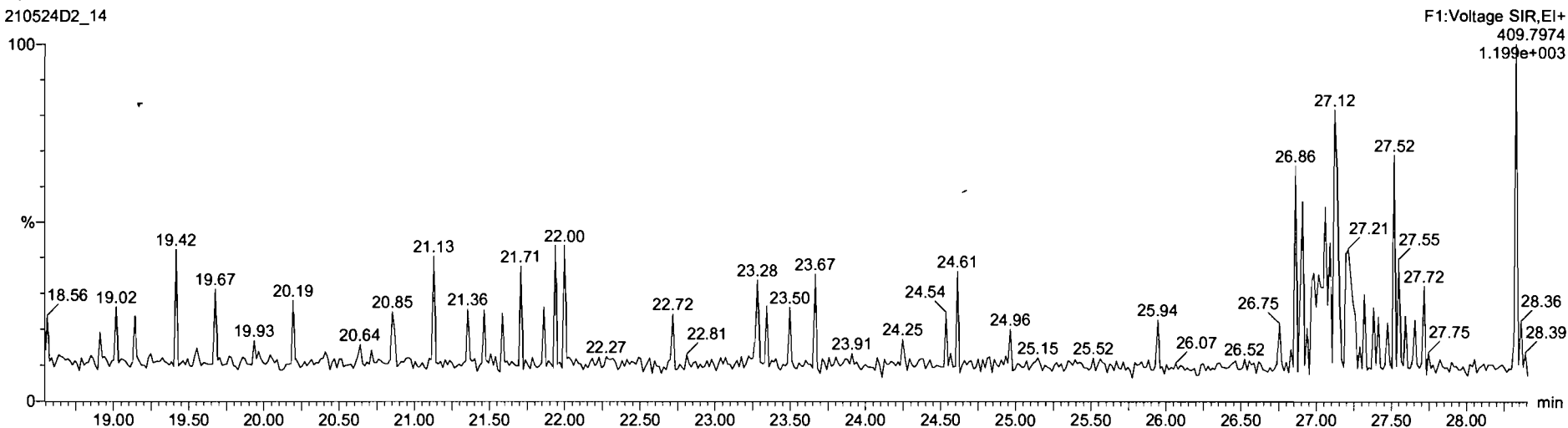


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DPE6

210524D2_14

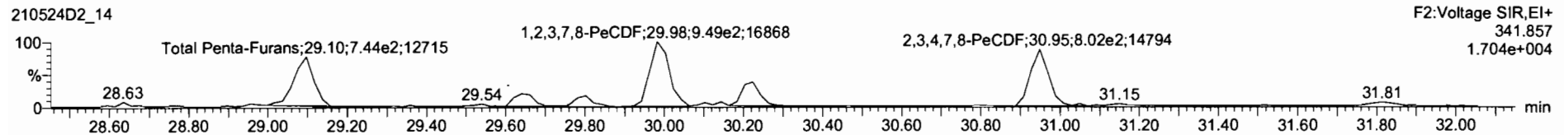
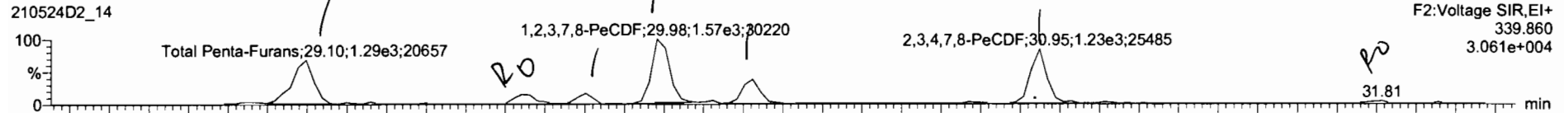


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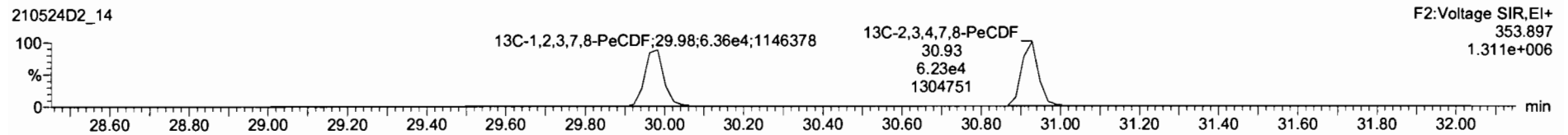
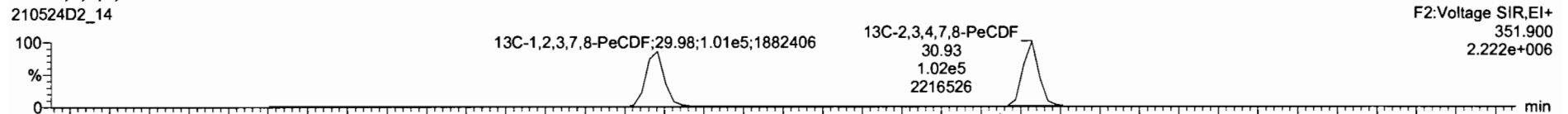
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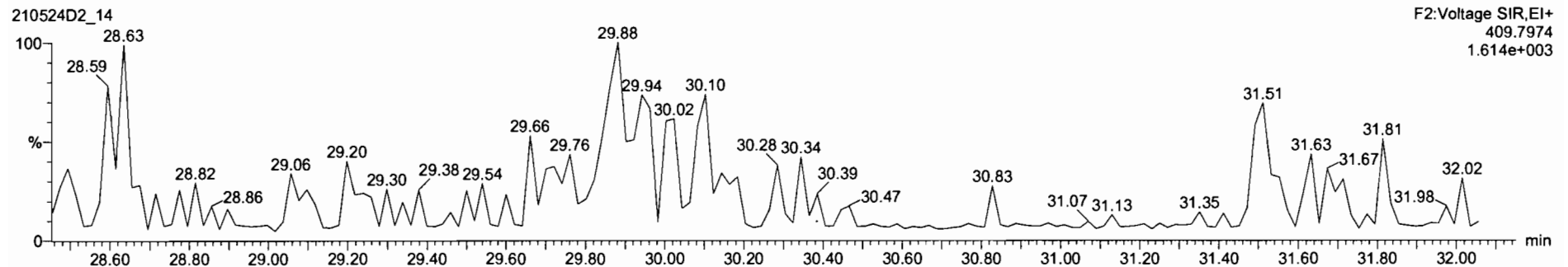
1,2,3,7,8-PeCDF



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

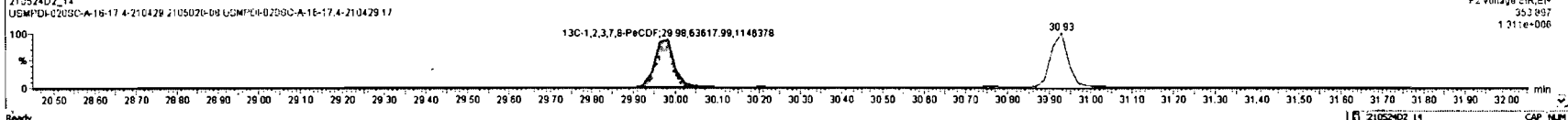
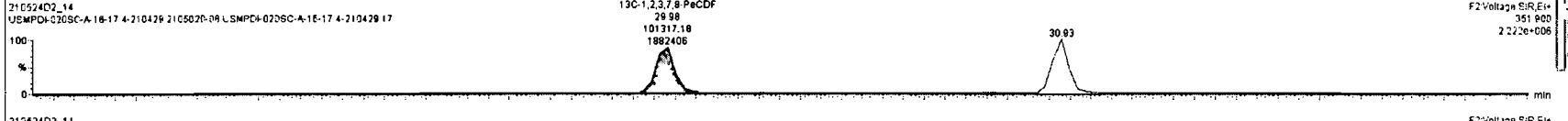
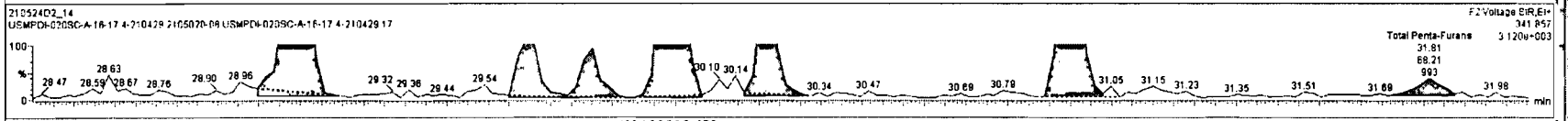
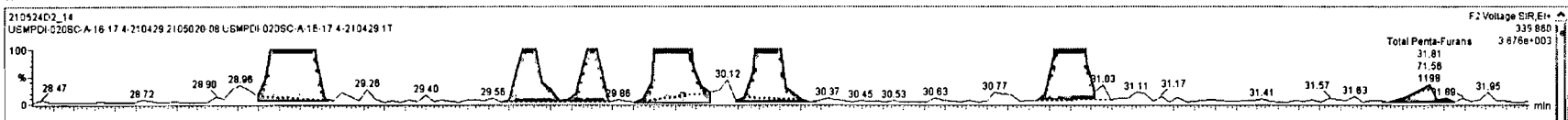


DPE2



Name	Resp	RA	rvy	RPF	wAcid	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.096			224		1.03	224
43 Total Tetra-Furans				0.86	10.096			8.97		0.143	9.80
44 1st Func. Penta-Furans				0.95	10.096			2.51		0.0574	2.51
45 Total Penta-Furans				0.95	10.096			9.97		0.180	10.7
46 Total Hexa-Furans				1.12	10.096			11.0		0.186	11.5
47 Total Hepta-Furans				1.18	10.096			21.8		0.219	21.8
48 PFH1											
49 PFH2											

Name	RT	wt Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Penta-Furans	29.10	1.300e3	7.904e2	1.67	NO	2.6797	2.6797
2 Total Penta-Furans	29.64	2.720e2	2.105e2	1.29	YES	0.56828	0.00000
3 Total Penta-Furans	29.80	2.228e2	1.502e2	1.48	NO	0.47388	0.47388
4 1,2,3,7,8-PeCDF	29.98	1.636e3	9.610e2	1.70	NO	3.2886	3.2886
5 Total Penta-Furans	30.22	6.076e2	3.474e2	1.75	NO	1.2126	1.2126
6 2,3,4,7,8-PeCDF	30.95	1.202e3	7.886e2	1.52	NO	2.3164	2.3164
7 Total Penta-Furans	31.81	7.155e1	6.821e1	1.05	YES	0.14949	0.00000

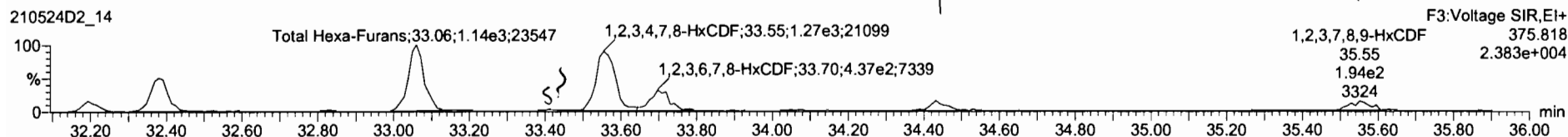
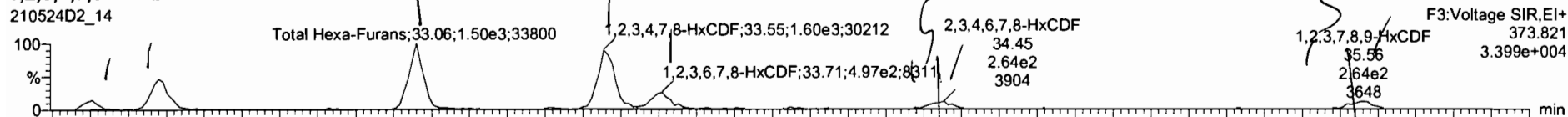


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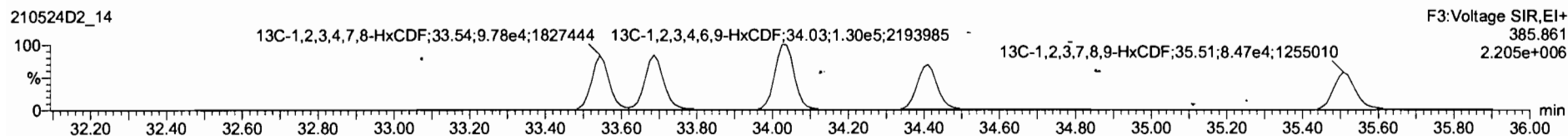
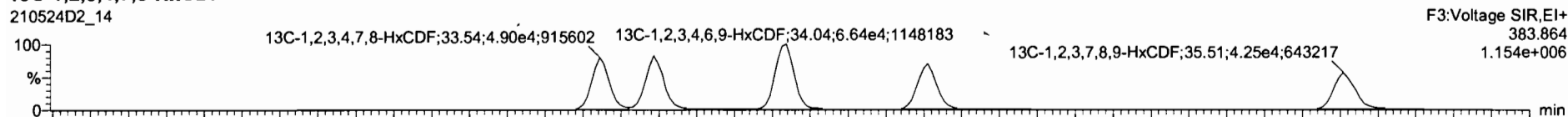
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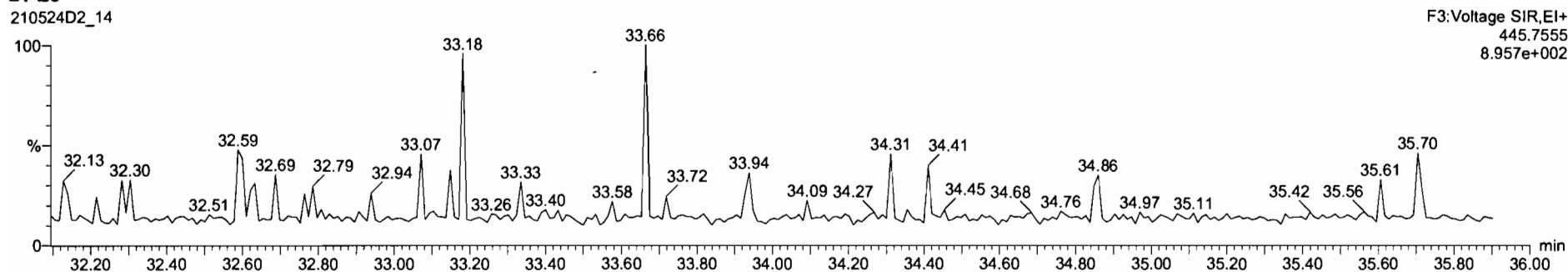
1,2,3,4,7,8-HxCDF

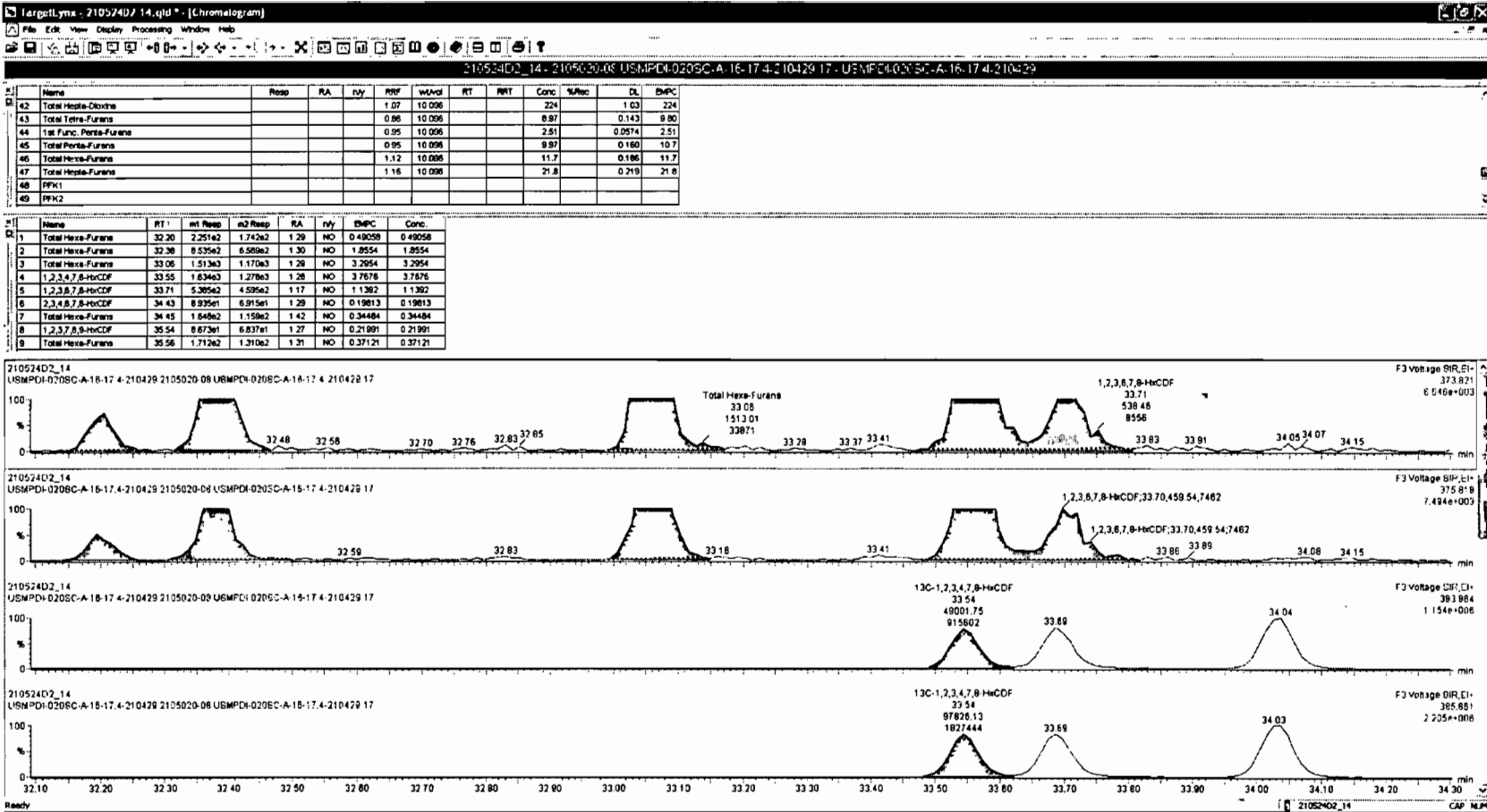


13C-1,2,3,4,7,8-HxCDF



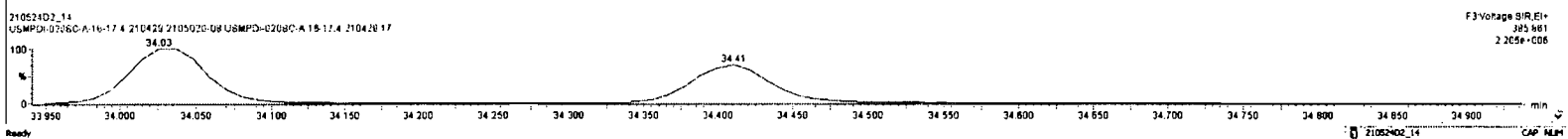
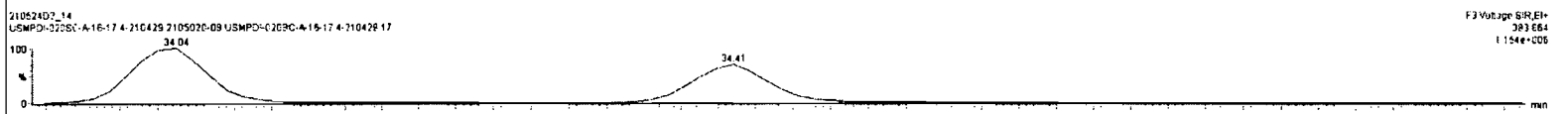
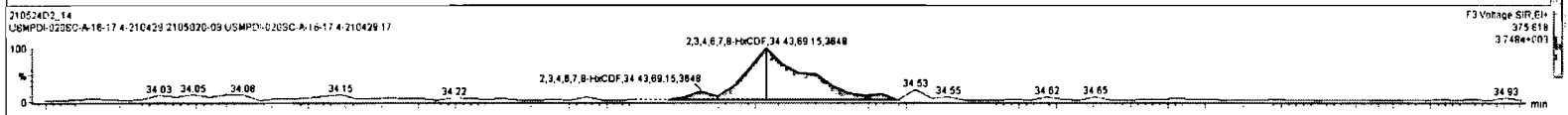
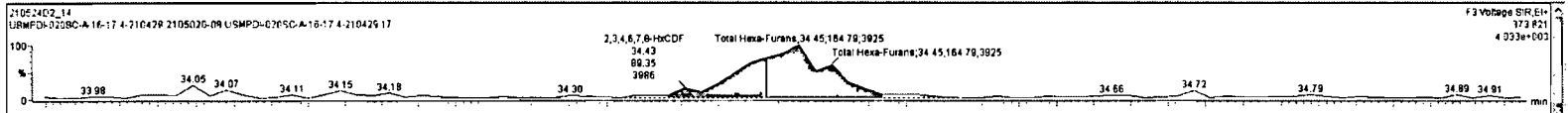
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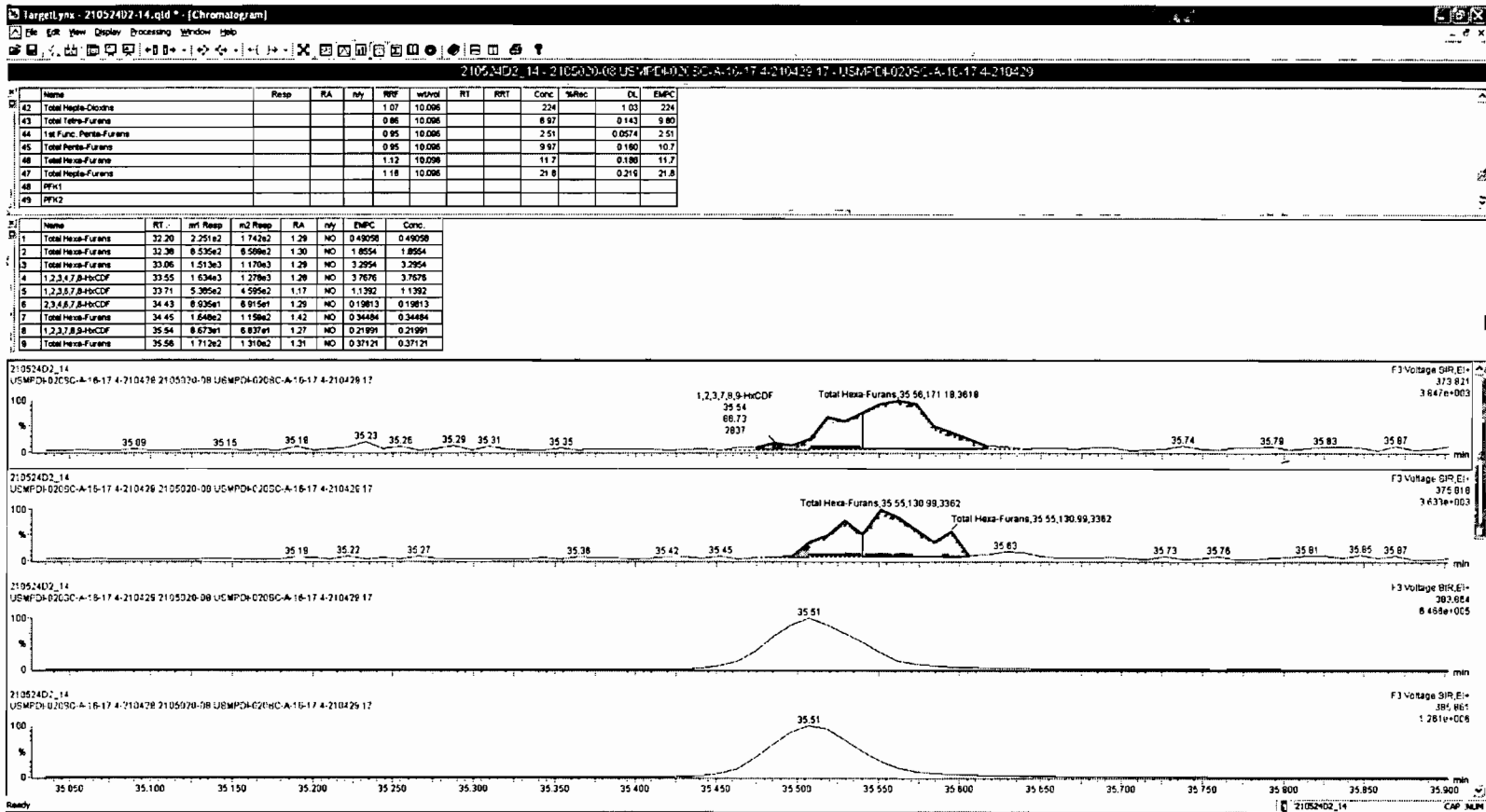




Name	Resp	RA	dy	RFV	ndVal	RT	RRT	Conc.	%Rec	DL	EWPC
42 Total Hexa-Dioxin				1.07	10.096			224		1.03	224
43 Total Tetra-Furans				0.88	10.096			8.97		0.143	9.80
44 1st Func. Penta-Furans				0.95	10.096			2.51		0.0574	2.51
45 Total Penta-Furans				0.95	10.096			9.97		0.180	10.7
46 Total Hexa-Furans				1.12	10.096			11.7		0.186	11.7
47 Total Hepta-Furans				1.18	10.096			21.8		0.218	21.8
48 PPK1											
49 PPK2											

Name	RT	m1 Resp	m2 Resp	RA	dy	EWPC	Conc.
1 Total Hexa-Furans	32.20	2.251e2	1.742e2	1.29	NO	0.48059	0.49059
2 Total Hexa-Furans	32.38	8.535e2	6.589e2	1.30	NO	1.8554	1.8554
3 Total Hexa-Furans	33.06	1.513e3	1.170e3	1.29	NO	3.2954	3.2954
4 1,2,3,4,7,8-HxCDF	33.55	1.634e3	1.276e3	1.28	NO	3.7678	3.7678
5 1,2,3,4,7,8-HxCDF	33.71	5.385e2	4.595e2	1.17	NO	1.1392	1.1392
6 2,3,4,6,7,8-HxCDF	34.43	8.235e1	6.915e1	1.29	NO	0.19913	0.19913
7 Total Hexa-Furans	34.45	1.849e2	1.199e2	1.42	NO	0.34484	0.34484
8 1,2,3,7,8-HxCDF	35.54	6.873e1	6.837e1	1.27	NO	0.21991	0.21991
9 Total Hexa-Furans	35.56	1.712e2	1.310e2	1.31	NO	0.37121	0.37121





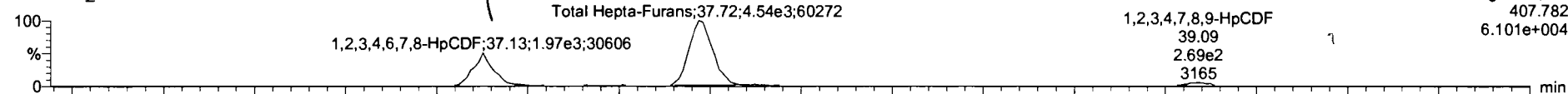
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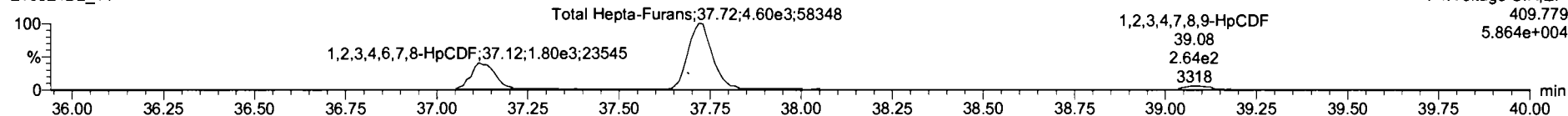
Name: 210524D2_14, Date: 25-May-2021, Time: 05:16:04, ID: 2105020-08 USMPDI-020SC-A-16-17.4-210429 17, Description: USMPDI-020SC-A-16-17.4-210429

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

210524D2_14

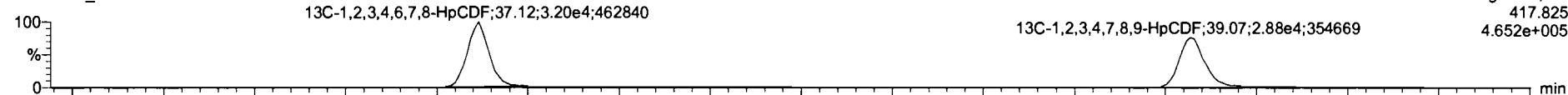


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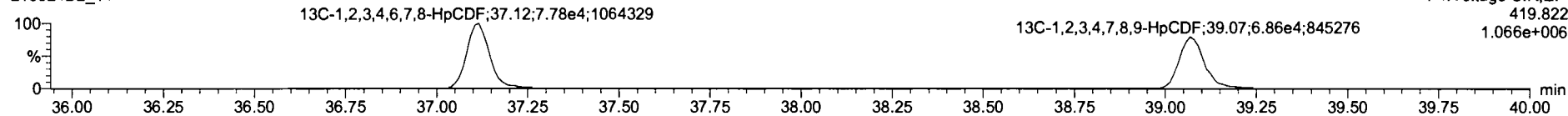


13C-1,2,3,4,6,7,8-HpCDF

210524D2_14

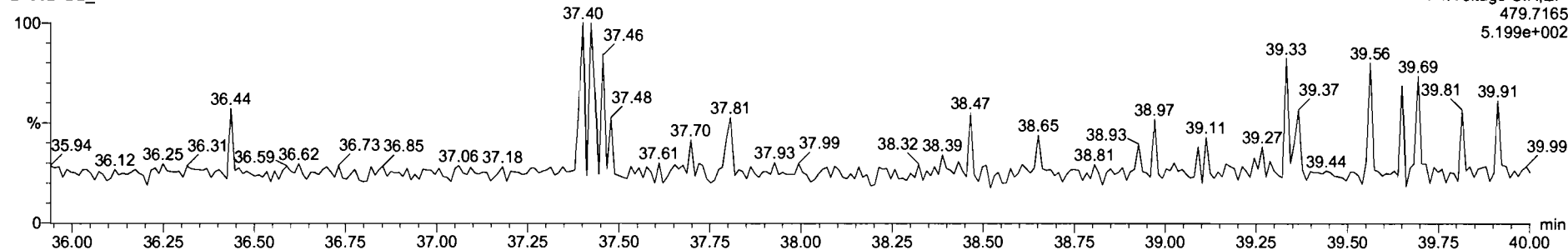


210524D2_14



DPE4

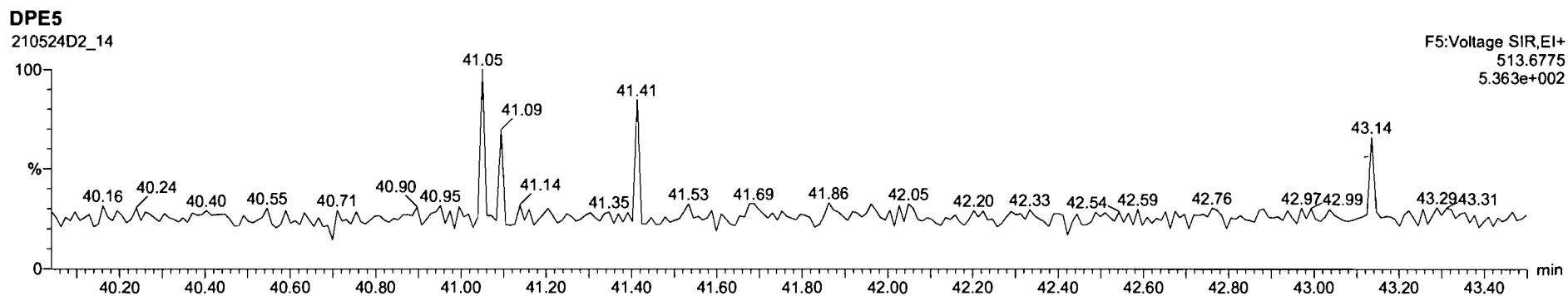
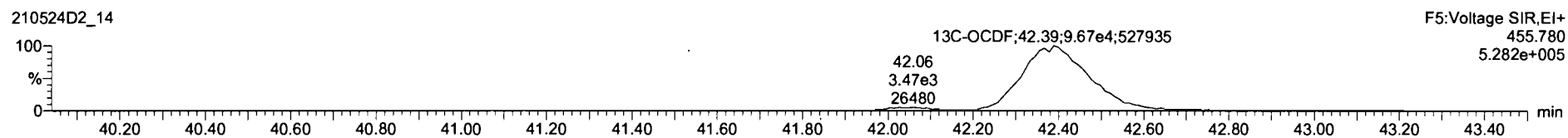
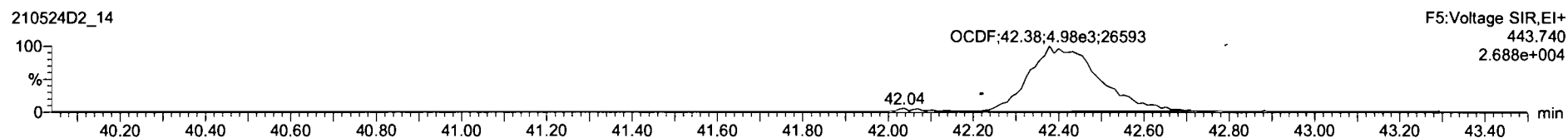
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Printed: Wednesday, May 26, 2021 12:13:07 Pacific Daylight Time

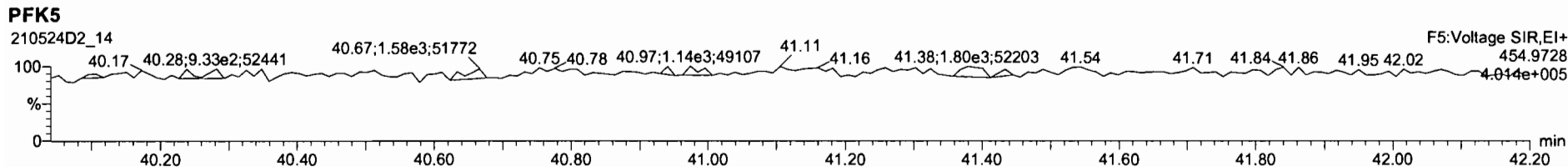
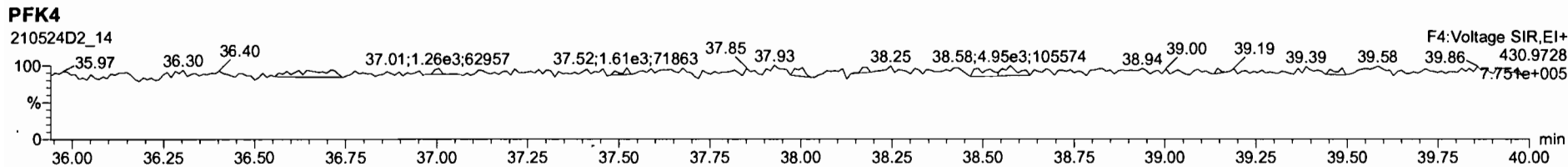
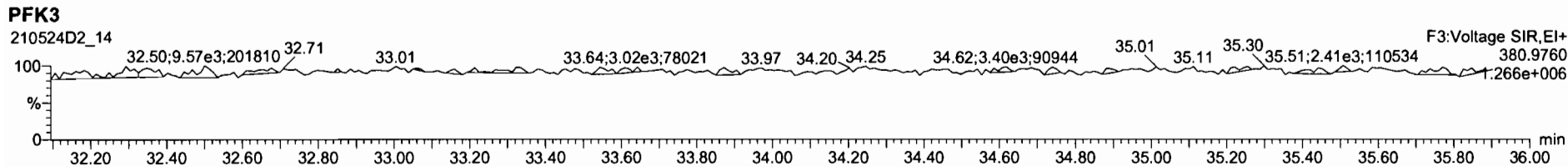
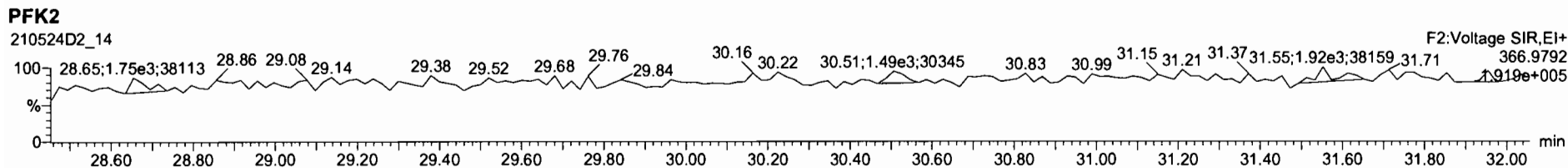
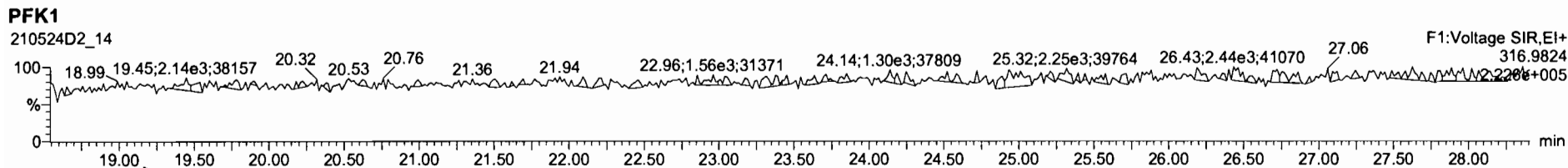
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Last Altered: Wednesday, May 26, 2021 12:12:48 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:13:07 Pacific Daylight Time

Name: 210524D2_14, Date: 25-May-2021, Time: 05:16:04, ID: 2105020-08 USMPDI-020SC-A-16-17.4-210429 17, Description: USMPDI-020SC-A-16-17.4-210429



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-15.qld

Last Altered: Wednesday, June 09, 2021 17:28:47 Pacific Daylight Time

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HL 6-9-2021

C106/10/2021

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429, Task: ST210524D2-1

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	1.05	10.076					0.0900	
2 1,2,3,7,8-PeCDD			NO	0.881	10.076					0.299	
3 1,2,3,4,7,8-HxCDD			NO	1.14	10.076					0.356	
4 1,2,3,6,7,8-HxCDD	6.59e2	1.11	NO	1.01	10.076	34.66	1.001	1.2286		0.359	1.23
5 1,2,3,7,8,9-HxCDD	2.37e2	1.26	NO	1.02	10.076	34.95	1.000	0.43005		0.350	0.430
6 1,2,3,4,6,7,8-HpCDD	4.76e4	1.05	NO	1.07	10.076	38.34	1.000	88.454		1.07	88.5
7 OCDD	2.64e5	0.89	NO	1.00	10.076	42.07	1.000	791.95		2.07	792
8 2,3,7,8-TCDF	2.78e3	0.76	NO	0.864	10.076	26.36	1.001	3.1523		0.102	3.15
9 1,2,3,7,8-PeCDF	3.81e3	1.50	NO	0.948	10.076	29.98	1.001	4.2520		0.131	4.25
10 2,3,4,7,8-PeCDF	3.05e3	1.63	NO	1.04	10.076	30.93	1.001	3.1153		0.111	3.12
11 1,2,3,4,7,8-HxCDF	3.87e3	1.32	NO	1.04	10.076	33.54	1.000	4.5457		0.150	4.55
12 1,2,3,6,7,8-HxCDF	1.11e3	1.23	NO	1.07	10.076	33.70	1.001	1.1743		0.148	1.17
13 2,3,4,6,7,8-HxCDF	4.37e2	1.17	NO	1.12	10.076	34.41	1.001	0.47215		0.170	0.472
14 1,2,3,7,8,9-HxCDF	2.92e2	1.19	NO	1.10	10.076	35.54	1.001	0.36579		0.218	0.366
15 1,2,3,4,6,7,8-HpCDF	4.07e3	1.02	NO	1.16	10.076	37.14	1.000	5.6527		0.207	5.65
16 1,2,3,4,7,8,9-HpCDF	6.39e2	0.93	NO	1.19	10.076	39.08	1.000	1.0137		0.267	1.01
17 OCDF	9.39e3	0.92	NO	0.909	10.076	42.44	1.001	21.598		0.640	21.6
18 13C-2,3,7,8-TCDD	1.18e5	0.84	NO	1.15	10.076	26.92	1.025	143.09	72.1	0.282	
19 13C-1,2,3,7,8-PeCDD	1.18e5	0.60	NO	0.887	10.076	31.09	1.184	184.69	93.0	0.487	
20 13C-1,2,3,4,7,8-HxCDD	9.10e4	1.37	NO	0.645	10.076	34.51	1.014	140.91	71.0	0.636	
21 13C-1,2,3,6,7,8-HxCDD	1.05e5	1.29	NO	0.717	10.076	34.64	1.018	146.76	73.9	0.573	
22 13C-1,2,3,7,8,9-HxCDD	1.07e5	1.23	NO	0.714	10.076	34.94	1.027	150.21	75.7	0.575	
23 13C-1,2,3,4,6,7,8-HpCDD	1.00e5	1.07	NO	0.583	10.076	38.33	1.127	171.71	86.5	0.900	
24 13C-OCDD	1.32e5	0.88	NO	0.451	10.076	42.05	1.236	291.67	73.5	0.611	
25 13C-2,3,7,8-TCDF	2.03e5	0.75	NO	1.09	10.076	26.34	1.003	123.36	62.1	0.241	
26 13C-1,2,3,7,8-PeCDF	1.88e5	1.65	NO	0.805	10.076	29.96	1.141	154.60	77.9	0.555	
27 13C-2,3,4,7,8-PeCDF	1.87e5	1.59	NO	0.792	10.076	30.91	1.177	156.76	79.0	0.564	
28 13C-1,2,3,4,7,8-HxCDF	1.62e5	0.52	NO	0.997	10.076	33.53	0.986	162.29	81.8	0.662	
29 13C-1,2,3,6,7,8-HxCDF	1.75e5	0.50	NO	1.03	10.076	33.67	0.990	169.90	85.6	0.642	
30 13C-2,3,4,6,7,8-HxCDF	1.64e5	0.48	NO	0.940	10.076	34.39	1.011	174.63	88.0	0.703	

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-15.qld

Last Altered: Wednesday, June 09, 2021 17:28:47 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 17:29:26 Pacific Daylight Time

Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429, Task: ST210524D2-1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.44e5	0.50	NO	0.852	10.076	35.50	1.044	168.73	85.0	0.775	
32	13C-1,2,3,4,6,7,8-HpCDF	1.23e5	0.42	NO	0.727	10.076	37.13	1.091	169.33	85.3	0.804	
33	13C-1,2,3,4,7,8,9-HpCDF	1.05e5	0.42	NO	0.608	10.076	39.07	1.149	173.11	87.2	0.962	
34	13C-OCDF	1.90e5	0.89	NO	0.631	10.076	42.41	1.247	300.66	75.7	0.808	
35	37Cl-2,3,7,8-TCDD	1.02e5			2.22	10.076	26.94	1.026	64.001	80.6	0.0394	
36	13C-1,2,3,4-TCDD	1.43e5	0.82	NO	1.00	10.076	26.26	1.000	198.49	100	0.323	
37	13C-1,2,3,4-TCDF	2.99e5	0.76	NO	1.00	10.076	25.04	1.000	198.49	100	0.263	
38	13C-1,2,3,4,6,9-HxCDF	1.99e5	0.50	NO	1.00	10.076	34.01	1.000	198.49	100	0.660	
39	Total Tetra-Dioxins				1.05	10.076			0.73440		0.0900	0.734
40	Total Penta-Dioxins				0.881	10.076			0.00000		0.0972	1.34
41	Total Hexa-Dioxins				1.01	10.076			20.759		0.370	20.8
42	Total Hepta-Dioxins				1.07	10.076			212.02		1.07	212
43	Total Tetra-Furans				0.864	10.076			11.539		0.102	12.1
44	1st Func. Penta-Furans				0.948	10.076			2.3905		0.0504	2.39
45	Total Penta-Furans				0.948	10.076			12.192		0.126	13.8
46	Total Hexa-Furans				1.12	10.076			12.781		0.165	13.3
47	Total Hepta-Furans				1.16	10.076			21.580		0.237	21.6

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-15.qld

Last Altered: Wednesday, June 09, 2021 17:28:47 Pacific Daylight Time

Printed: Wednesday, June 09, 2021 17:29:26 Pacific Daylight Time

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Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429,
 Task: ST210524D2-1

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Dioxins	23.80	2.790e3	4.517e3	2.113e2	2.449e2	0.86	NO	4.562e2	0.73440	0.73440	0.0900

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Dioxins	29.06	1.876e3	2.647e3	8.894e1	1.684e2	0.53	YES	0.000e0	0.00000	0.44069	0.299
2 Total Penta-Dioxins	29.48	5.170e2	2.237e3	4.057e1	1.865e2	0.22	YES	0.000e0	0.00000	0.20100	0.299
3 Total Penta-Dioxins	29.96	4.671e3	2.750e3	1.920e2	1.485e2	1.29	YES	0.000e0	0.00000	0.46349	0.299
4 Total Penta-Dioxins	30.43	9.940e2	2.027e3	4.682e1	9.610e1	0.49	YES	0.000e0	0.00000	0.23199	0.299

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Dioxins	32.75	5.250e4	4.215e4	2.692e3	2.089e3	1.29	NO	4.782e3	9.2753	9.2753	0.370
2 Total Hexa-Dioxins	33.39	5.106e3	3.574e3	2.798e2	2.204e2	1.27	NO	5.003e2	0.97039	0.97039	0.370
3 Total Hexa-Dioxins	33.69	2.795e4	2.151e4	2.150e3	1.656e3	1.30	NO	3.805e3	7.3805	7.3805	0.370
4 Total Hexa-Dioxins	33.82	4.077e3	3.361e3	2.657e2	2.227e2	1.19	NO	4.884e2	0.94735	0.94735	0.370
5 1,2,3,6,7,8-HxCDD	34.66	5.903e3	4.979e3	3.467e2	3.121e2	1.11	NO	6.588e2	1.2286	1.2286	0.359
6 Total Hexa-Dioxins	34.82	2.622e3	1.715e3	1.497e2	1.219e2	1.23	NO	2.717e2	0.52693	0.52693	0.370
7 1,2,3,7,8,9-HxCDD	34.95	2.387e3	1.627e3	1.324e2	1.048e2	1.26	NO	2.372e2	0.43005	0.43005	0.350

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hepta-Dioxins	37.41	5.277e5	4.973e5	3.347e4	3.301e4	1.01	NO	6.649e4	123.57	123.57	1.07
2 1,2,3,4,6,7,8-HpCDD	38.34	2.907e5	2.900e5	2.441e4	2.318e4	1.05	NO	4.759e4	88.454	88.454	1.07

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-15.qld

Last Altered: Wednesday, June 09, 2021 17:28:47 Pacific Daylight Time

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Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429, Task: ST210524D2-1

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Tetra-Furans	22.47	7.970e2	1.083e3	6.146e1	9.569e1	0.64	YES	0.000e0	0.00000	0.15999	0.102
2 Total Tetra-Furans	23.11	5.537e3	7.531e3	3.645e2	5.244e2	0.70	NO	8.889e2	1.0067	1.0067	0.102
3 Total Tetra-Furans	23.83	6.974e3	8.254e3	4.619e2	5.739e2	0.80	NO	1.036e3	1.1730	1.1730	0.102
4 Total Tetra-Furans	24.20	4.203e3	4.985e3	2.464e2	3.550e2	0.69	NO	6.014e2	0.68112	0.68112	0.102
5 Total Tetra-Furans	24.48	8.270e2	1.074e3	5.604e1	5.798e1	0.97	YES	0.000e0	0.00000	0.11621	0.102
6 Total Tetra-Furans	25.13	3.340e3	6.416e3	3.107e2	4.377e2	0.71	NO	7.484e2	0.84752	0.84752	0.102
7 Total Tetra-Furans	25.35	1.148e3	1.075e3	7.229e1	6.656e1	1.09	YES	0.000e0	0.00000	0.13342	0.102
8 Total Tetra-Furans	25.50	1.810e4	2.323e4	1.231e3	1.543e3	0.80	NO	2.774e3	3.1411	3.1411	0.102
9 Total Tetra-Furans	26.22	2.389e3	3.373e3	1.680e2	2.121e2	0.79	NO	3.801e2	0.43048	0.43048	0.102
10 2,3,7,8-TCDF	26.36	2.019e4	2.576e4	1.203e3	1.581e3	0.76	NO	2.784e3	3.1523	3.1523	0.102
11 Total Tetra-Furans	26.60	1.310e3	1.765e3	7.013e1	9.068e1	0.77	NO	1.608e2	0.18211	0.18211	0.102
12 Total Tetra-Furans	27.32	1.533e3	2.025e3	7.148e1	8.944e1	0.80	NO	1.609e2	0.18223	0.18223	0.102
13 Total Tetra-Furans	27.47	2.904e3	2.899e3	1.478e2	1.737e2	0.85	NO	3.216e2	0.36418	0.36418	0.102
14 Total Tetra-Furans	27.66	1.011e3	1.677e3	5.163e1	6.740e1	0.77	NO	1.190e2	0.13481	0.13481	0.102
15 Total Tetra-Furans	27.84	1.468e3	1.222e3	6.386e1	5.203e1	1.23	YES	0.000e0	0.00000	0.10430	0.102
16 Total Tetra-Furans	27.98	1.867e3	2.223e3	9.050e1	1.242e2	0.73	NO	2.147e2	0.24317	0.24317	0.102

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1st Func. Penta-Furans	27.63	2.589e4	1.645e4	1.336e3	8.048e2	1.66	NO	2.141e3	2.3905	2.3905	0.0504

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-15.qld

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Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429, Task: ST210524D2-1

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Furans	28.96	1.683e3	1.703e3	7.489e1	9.317e1	0.80	YES	0.000e0	0.00000	0.13758	0.126
2 Total Penta-Furans	29.08	2.834e4	1.739e4	1.762e3	1.108e3	1.59	NO	2.870e3	3.2049	3.2049	0.126
3 Total Penta-Furans	29.64	5.066e3	3.747e3	3.062e2	2.396e2	1.28	YES	0.000e0	0.00000	0.56255	0.126
4 Total Penta-Furans	29.78	7.860e3	3.880e3	3.551e2	1.954e2	1.82	YES	0.000e0	0.00000	0.55641	0.126
5 1,2,3,7,8-PeCDF	29.98	4.375e4	2.769e4	2.287e3	1.525e3	1.50	NO	3.812e3	4.2520	4.2520	0.131
6 Total Penta-Furans	30.10	1.837e3	1.146e3	1.437e2	6.954e1	2.07	YES	0.000e0	0.00000	0.19801	0.126
7 Total Penta-Furans	30.20	1.857e4	1.107e4	8.861e2	5.642e2	1.57	NO	1.450e3	1.6194	1.6194	0.126
8 2,3,4,7,8-PeCDF	30.93	3.443e4	2.319e4	1.890e3	1.160e3	1.63	NO	3.049e3	3.1153	3.1153	0.111
9 Total Penta-Furans	31.79	1.852e3	1.741e3	9.099e1	1.034e2	0.88	YES	0.000e0	0.00000	0.16715	0.126

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Hexa-Furans	32.19	6.232e3	4.918e3	3.277e2	2.731e2	1.20	NO	6.008e2	0.66165	0.66165	0.165
2 Total Hexa-Furans	32.37	2.243e4	1.754e4	1.094e3	9.044e2	1.21	NO	1.999e3	2.2013	2.2013	0.165
3 Total Hexa-Furans	33.05	3.166e4	2.481e4	1.696e3	1.355e3	1.25	NO	3.051e3	3.3601	3.3601	0.165
4 1,2,3,4,7,8-HxCDF	33.54	4.332e4	3.282e4	2.202e3	1.669e3	1.32	NO	3.871e3	4.5457	4.5457	0.150
5 1,2,3,6,7,8-HxCDF	33.70	1.018e4	7.871e3	6.139e2	4.981e2	1.23	NO	1.112e3	1.1743	1.1743	0.148
6 2,3,4,6,7,8-HxCDF	34.41	4.226e3	3.654e3	2.358e2	2.008e2	1.17	NO	4.366e2	0.47215	0.47215	0.170
7 Total Hexa-Furans	34.46	1.854e3	2.116e3	5.702e1	6.237e1	0.91	YES	0.000e0	0.00000	0.11345	0.165
8 1,2,3,7,8,9-HxCDF	35.54	4.488e3	3.257e3	1.583e2	1.333e2	1.19	NO	2.916e2	0.36579	0.36579	0.218
9 Total Hexa-Furans	35.56	4.631e3	3.882e3	2.043e2	1.810e2	1.13	NO	0.000e0	0.00000	0.42437	0.165

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 1,2,3,4,6,7,8-HpCDF	37.14	3.000e4	3.082e4	2.059e3	2.012e3	1.02	NO	4.071e3	5.6527	5.6527	0.207
2 Total Hepta-Furans	37.70	6.520e4	6.382e4	5.129e3	4.833e3	1.06	NO	9.963e3	14.913	14.913	0.237
3 1,2,3,4,7,8,9-HpCDF	39.08	4.048e3	4.022e3	3.078e2	3.310e2	0.93	NO	6.388e2	1.0137	1.0137	0.267

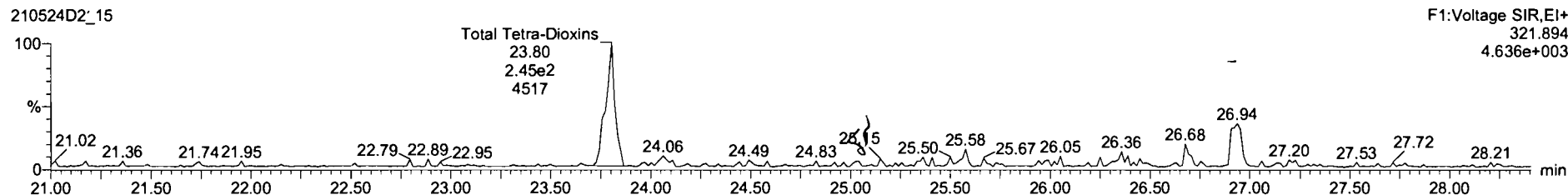
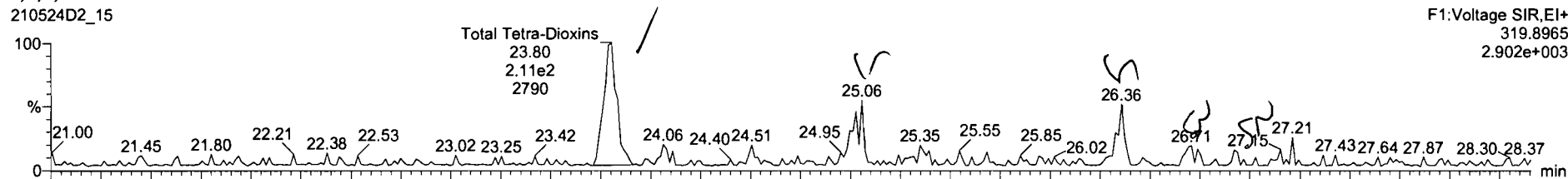
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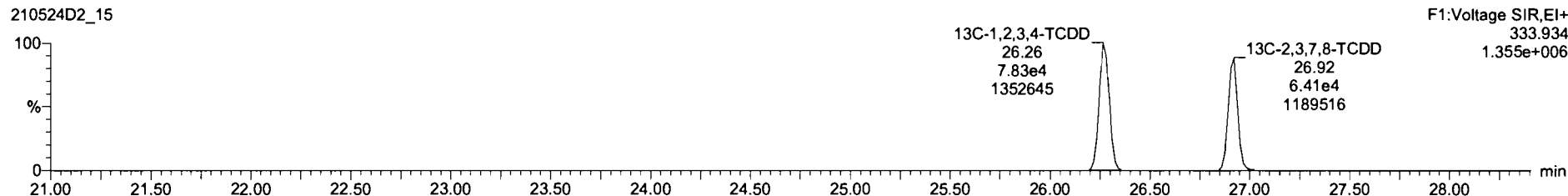
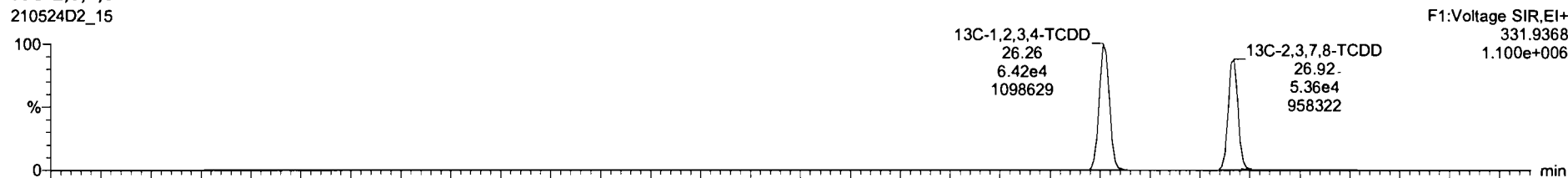
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Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429

2,3,7,8-TCDD



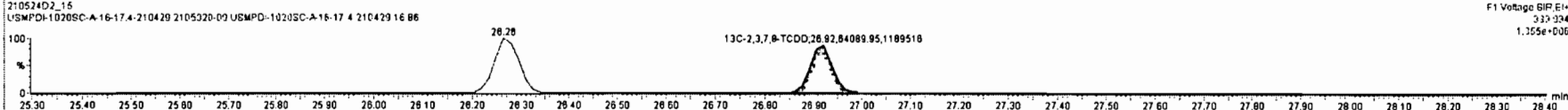
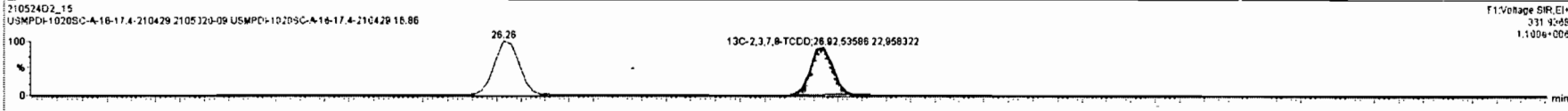
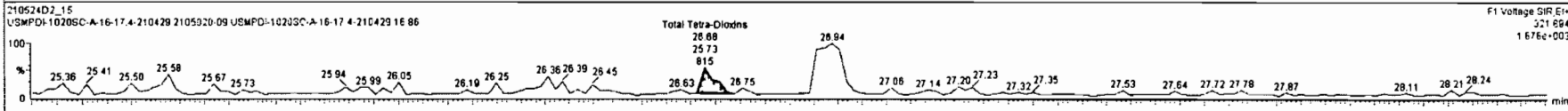
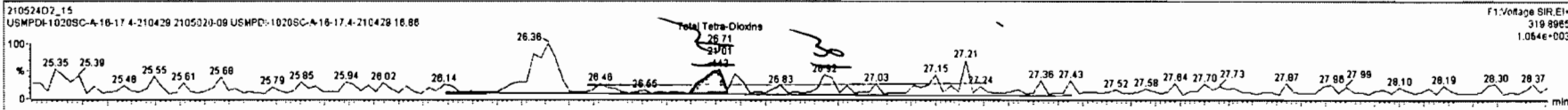
13C-2,3,7,8-TCDD



21052402_15 - 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.65 - US4IPDI-1020SC-A-16-17.4-210429

Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
36 Total Tetra-Dioxins				1.05	10.078			0.810		0.0900	0.810
40 Total Penta-Dioxins				0.88	10.078			0.000		0.0972	0.478
41 Total Hexa-Dioxins				1.01	10.078			19.7		0.370	19.7
42 Total Hepta-Dioxins				1.07	10.078			212		1.07	212
43 Total Tetra-Furans				0.86	10.078			10.2		0.102	10.5
44 1st Func. Penta-Furans				0.95	10.078			2.39		0.0504	2.39
45 Total Penta-Furans				0.95	10.078			12.8		0.126	13.5
46 Total Hexa-Furans				1.12	10.078			12.5		0.185	13.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.80	2.113e2	2.449e2	0.86	NO	0.73440	0.73440
2 Total Tetra-Dioxins	26.71	2.101e1	2.573e1	0.82	NO	0.075247	0.075247

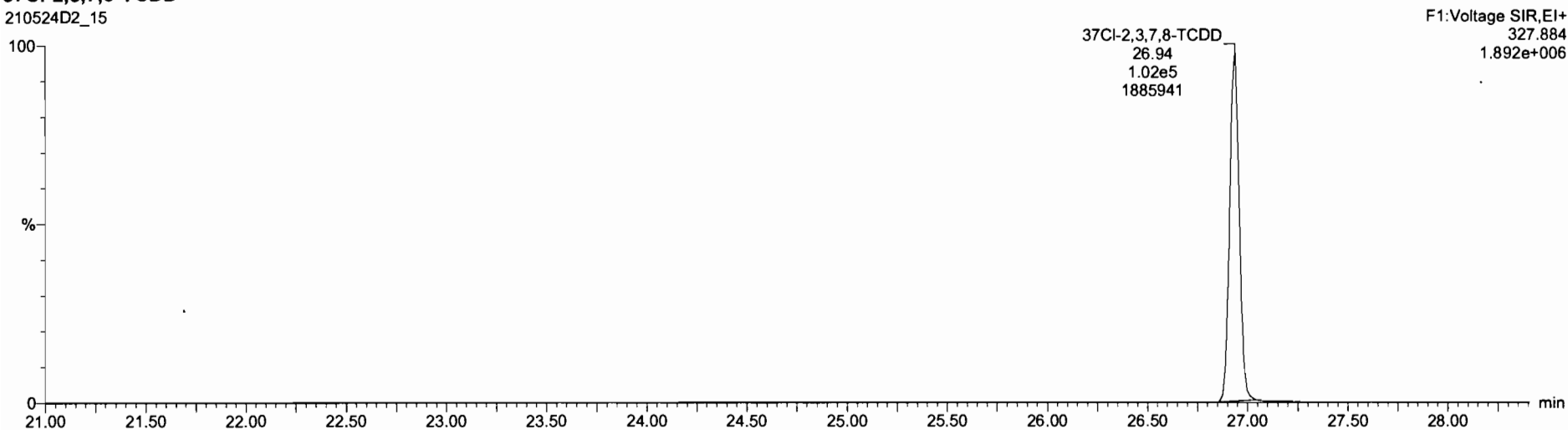


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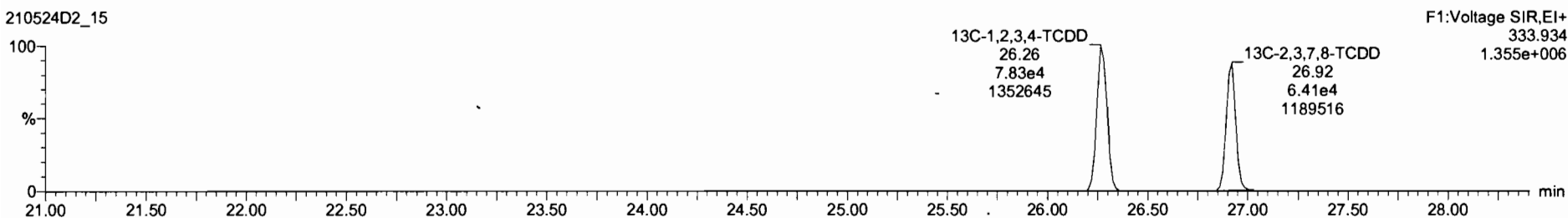
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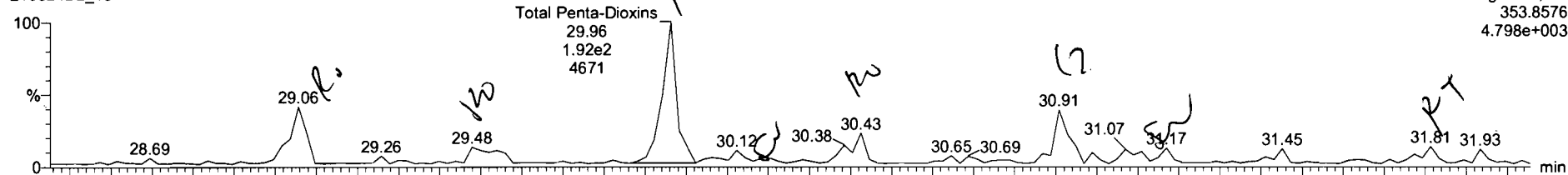
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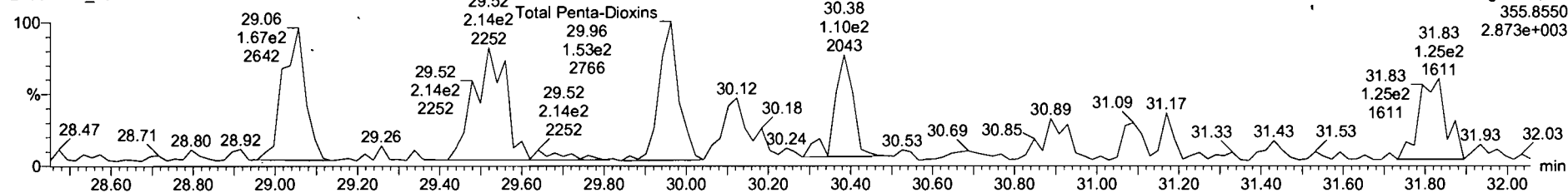
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1,2,3,7,8-PeCDD

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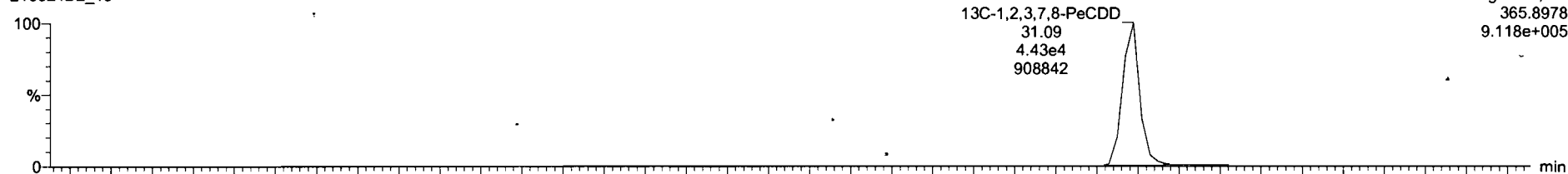


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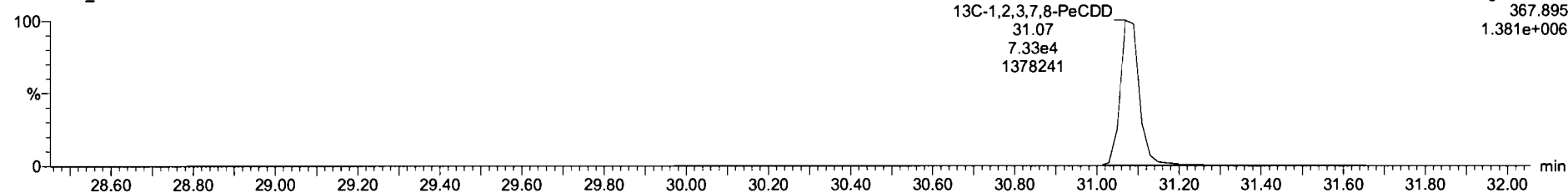


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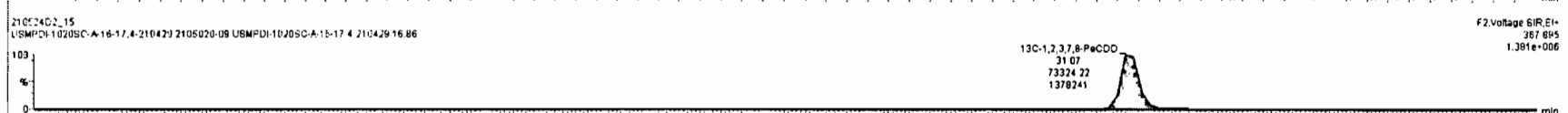
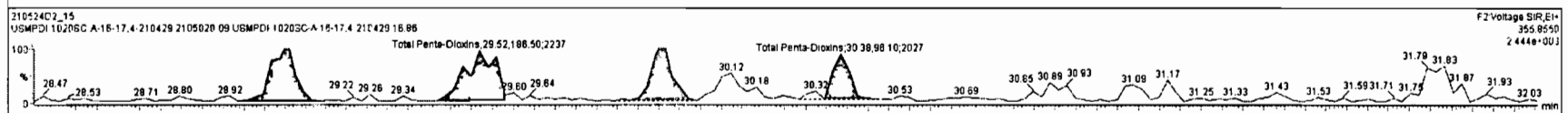
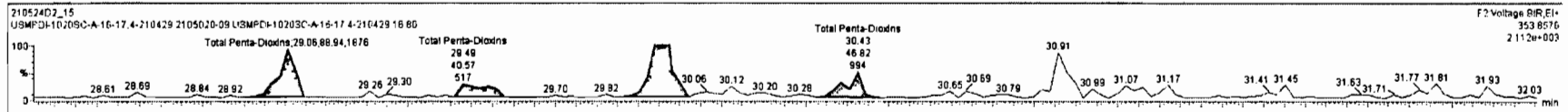


210524D2_15



Name	Resp	RA	rvf	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
30 Total Tetra-Dioxins				1.05	10.076			0.734	0.0900	0.734	
40 Total Penta-Dioxins				0.88	10.076			0.000	0.0072	1.34	
41 Total Hexa-Dioxins				1.01	10.076			19.7	0.370	19.7	
42 Total Hepta-Dioxins				1.07	10.076			21.2	1.07	21.2	
43 Total Tetra-Furans				0.86	10.076			10.2	0.102	10.5	
44 1st Func. Penta-Furans				0.95	10.076			2.39	0.0504	2.39	
45 Total Penta-Furans				0.95	10.076			12.8	0.126	13.5	
46 Total Hexa-Furans				1.12	10.076			12.5	0.185	13.0	

Name	RT	Int Resp	Acq Resp	RA	rvf	EMPC	Conc.
1 Total Penta-Dioxins	29.06	8.894e1	1.584e2	0.53	YES	0.44069	0.00000
2 Total Penta-Dioxins	29.48	4.057e1	1.865e2	0.22	YES	0.20100	0.00000
3 Total Penta-Dioxins	29.96	1.820e2	1.485e2	1.29	YES	0.48349	0.00000
4 Total Penta-Dioxins	30.43	4.682e1	9.610e1	0.49	YES	0.23199	0.00000

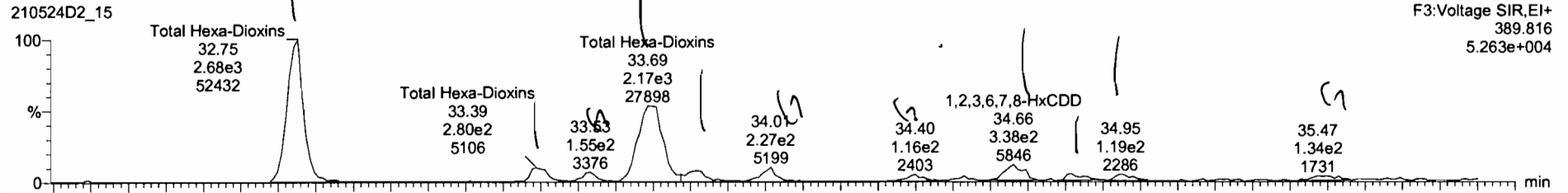


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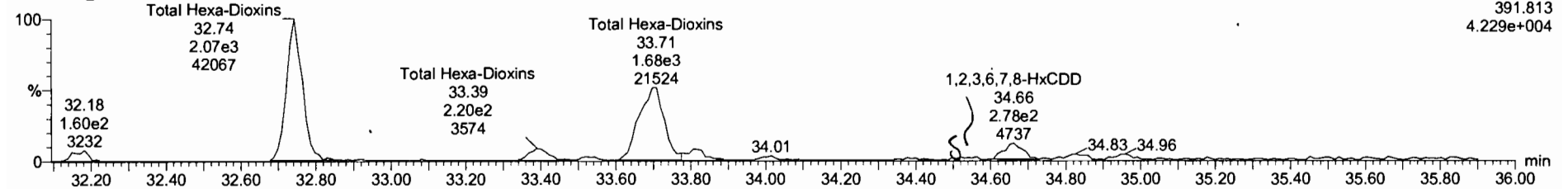
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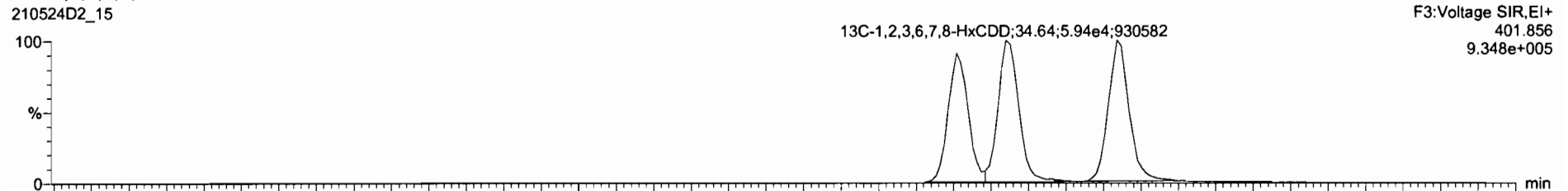
1,2,3,4,7,8-HxCDD



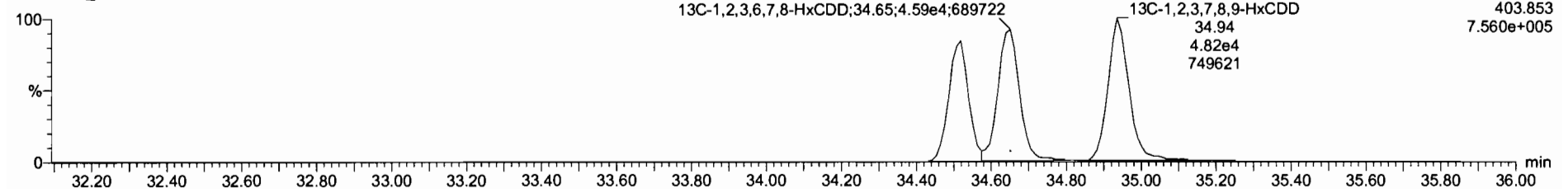
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13C-1,2,3,4,7,8-HxCDD



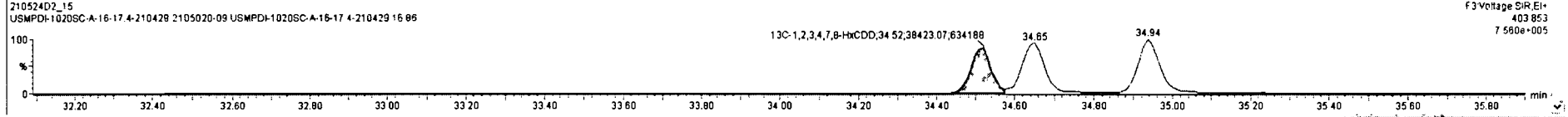
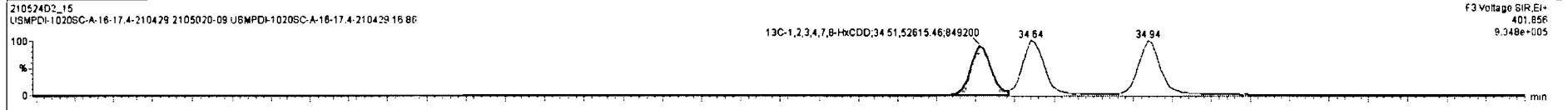
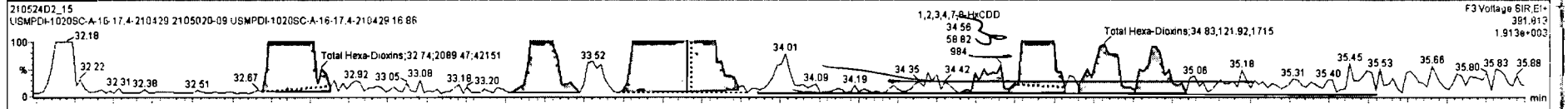
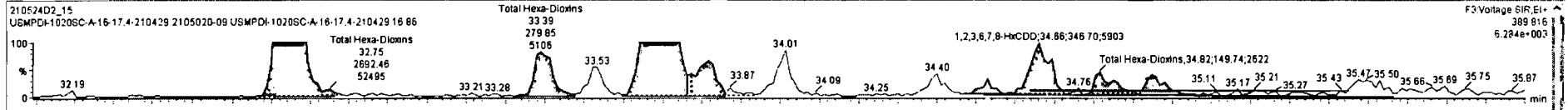
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21052402_15 - 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.66 - USMPDI-1020SC-A-16-17.4-210429

Name	Resp	RA	n/y	RRF	wt/Avol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				1.05	10.076			0.734	0.0900	0.734	
40 Total Penta-Dioxins				0.88	10.076			0.000	0.0872	1.34	
41 Total Hexa-Dioxins				1.01	10.076			21.0	0.370	21.0	
42 Total Hepta-Dioxins				1.07	10.076			21.2	1.07	21.2	
43 Total Tetra-Furans				0.86	10.076			10.2	0.102	10.5	
44 1st Func. Penta-Furans				0.95	10.076			2.39	0.0504	2.39	
45 Total Penta-Furans				0.95	10.076			12.8	0.126	13.5	
46 Total Hexa-Furans				1.12	10.076			12.5	0.165	13.0	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.75	2.692e3	2.089e3	1.29	NO	9.2753	9.2753
2 Total Hexa-Dioxins	33.39	2.798e2	2.204e2	1.27	NO	0.97039	0.97039
3 Total Hexa-Dioxins	33.69	2.150e3	1.658e3	1.30	NO	7.3605	7.3605
4 Total Hexa-Dioxins	33.82	2.657e2	2.227e2	1.19	NO	0.94735	0.94735
5 1,2,3,4,7,8-HxCDD	34.53	6.217e1	5.882e1	1.06	NO	0.23081	0.23081
6 1,2,3,6,7,8-HxCDD	34.68	3.467e2	3.121e2	1.11	NO	1.2286	1.2286
7 Total Hexa-Dioxins	34.82	1.497e2	1.219e2	1.23	NO	0.52693	0.52693
8 1,2,3,7,8-HxCDD	34.95	1.324e2	1.048e2	1.26	NO	0.43005	0.43005



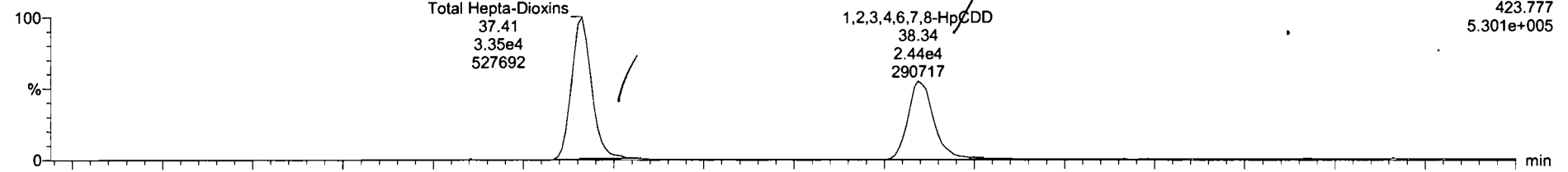
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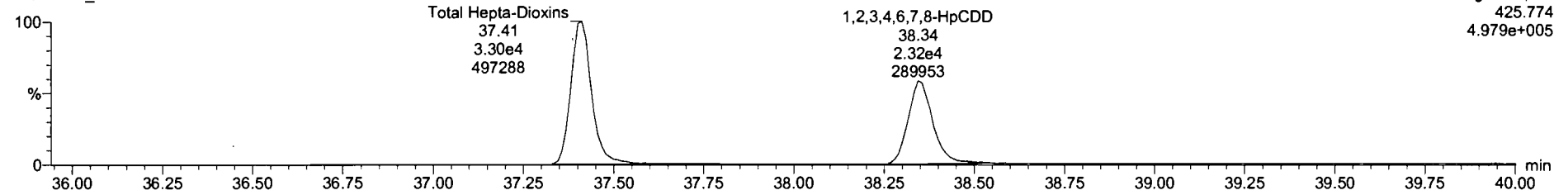
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1,2,3,4,6,7,8-HpCDD

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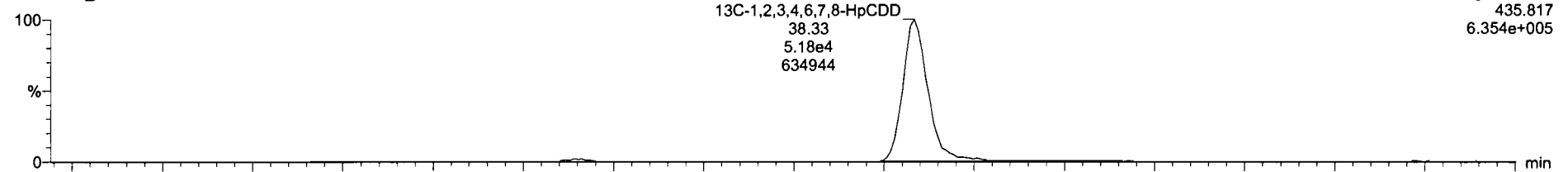


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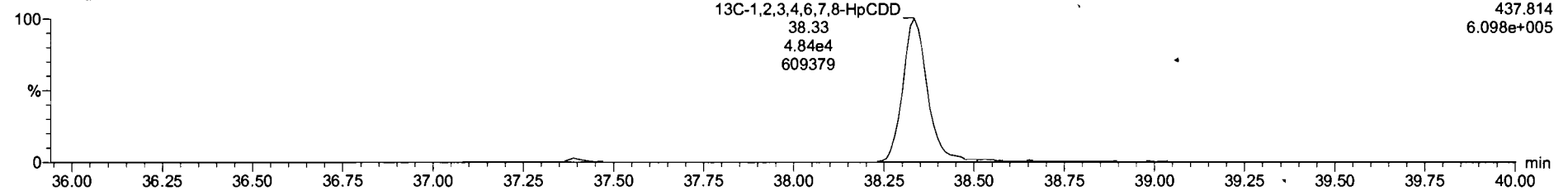


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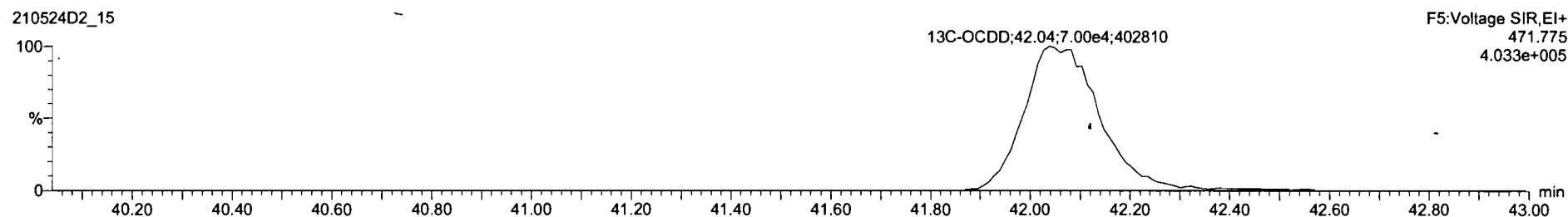
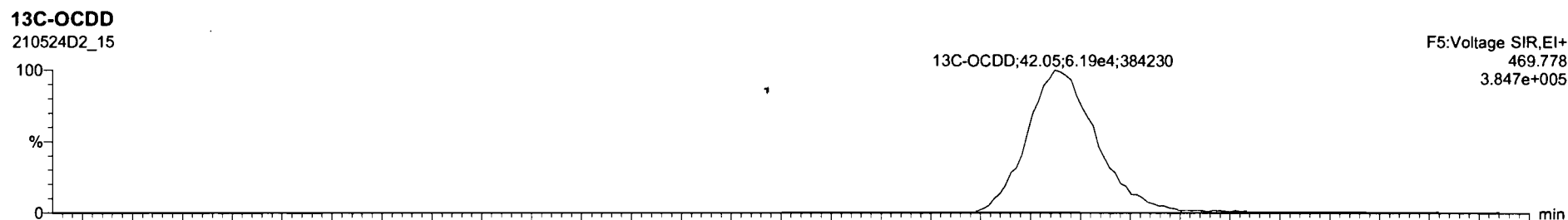
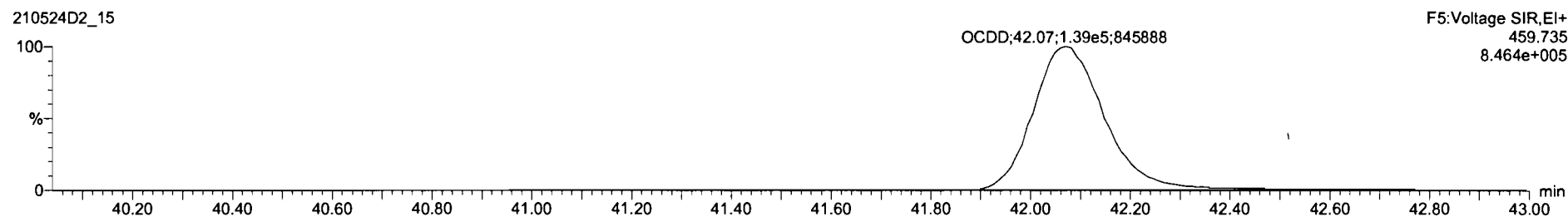
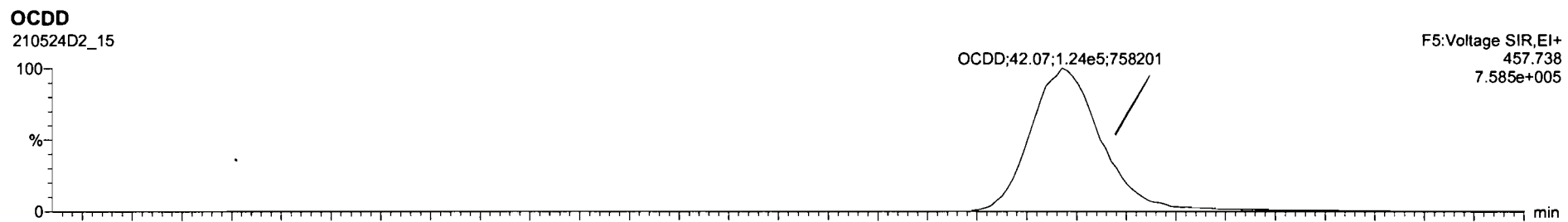
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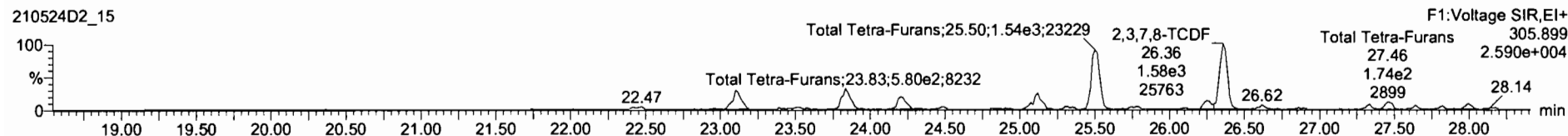
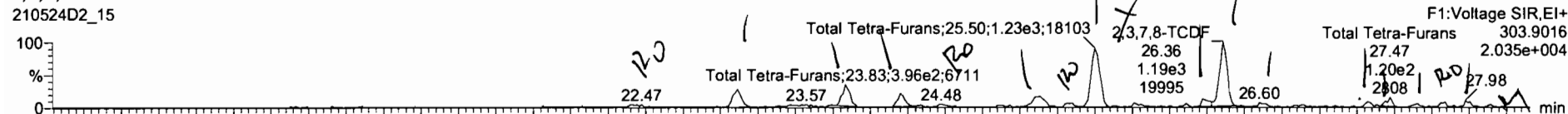


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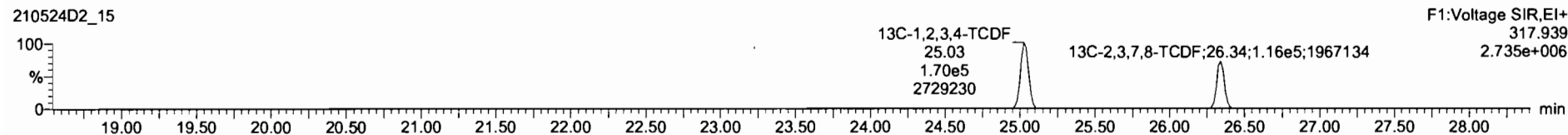
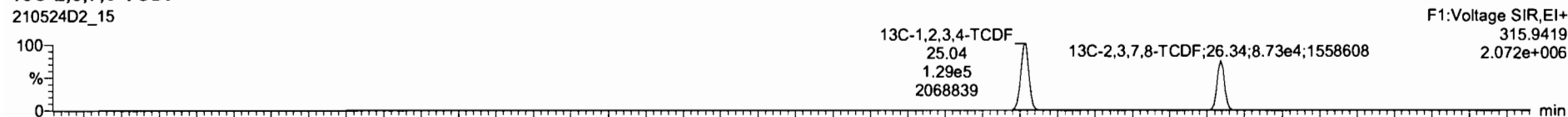
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Printed: Wednesday, May 26, 2021 12:13:27 Pacific Daylight Time

Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429

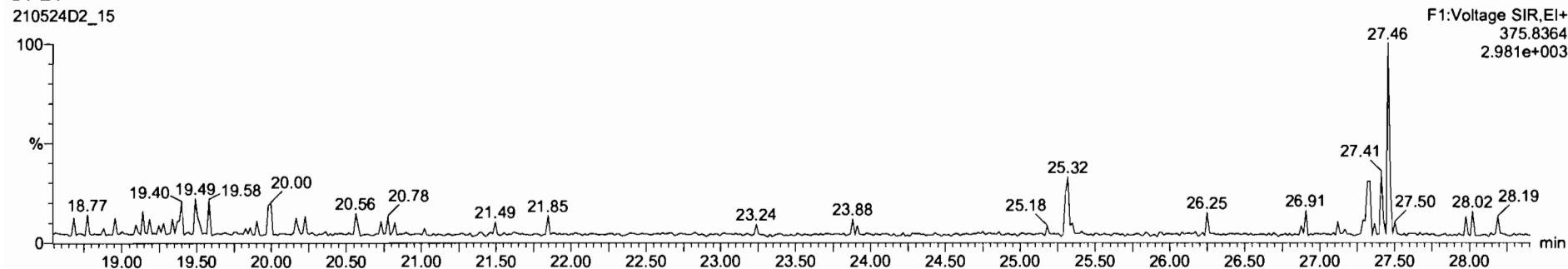
2,3,7,8-TCDF



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

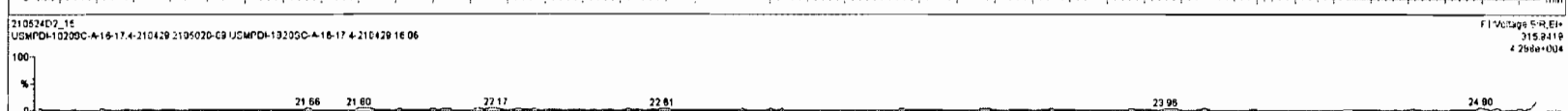
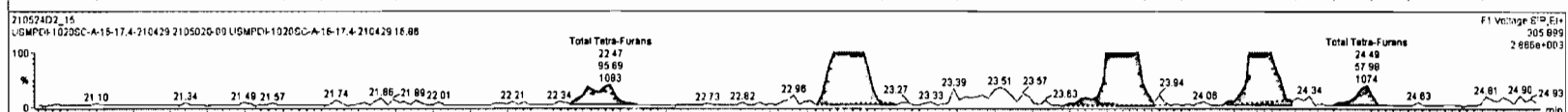
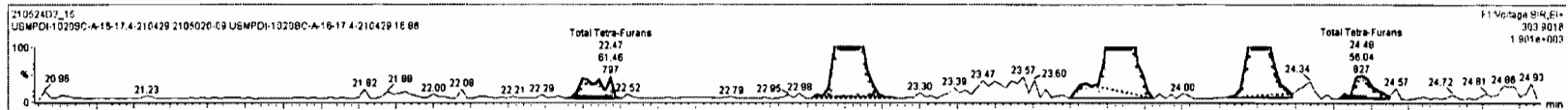


DPE1



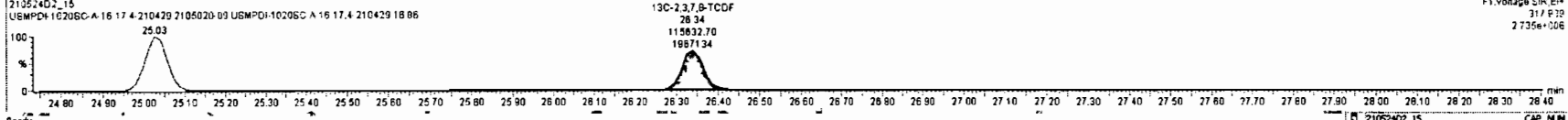
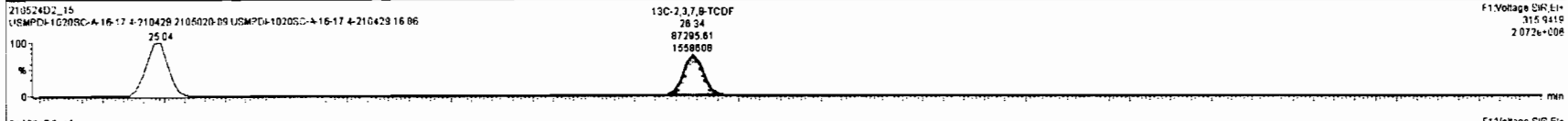
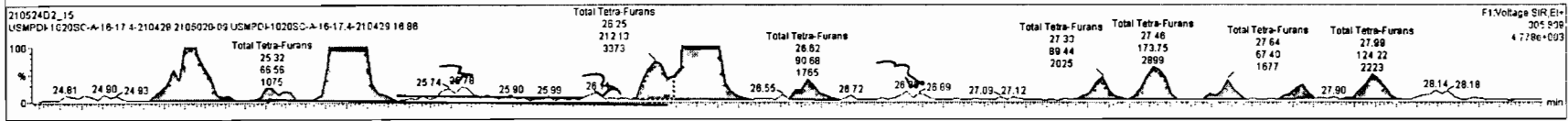
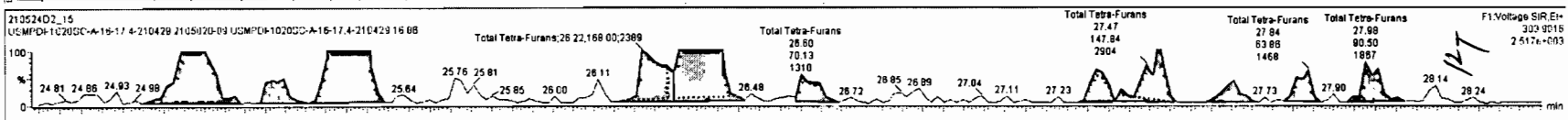
Name	Resp	RA	RV	RVV	WtAveI	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Furans					1.07	10.078		21.2	1.07	21.2	
43 Total Tetra-Furans					0.86	10.078		11.4	0.102	12.1	
44 1st Func. Penta-Furans					0.95	10.078		2.38	0.0504	2.38	
45 Total Penta-Furans					0.85	10.078		12.8	0.128	13.5	
46 Total Hexa-Furans					1.12	10.078		12.5	0.165	13.0	
47 Total Hepta-Furans					1.18	10.078		21.6	0.237	21.6	
48 PPK1											
49 PPK2											

Name	RT	Wt Resp	R2 Resp	RA	RV	EMPC	Conc.
1 Total Tetra-Furans	22.47	8.148e1	8.558e1	0.54	YES	0.19899	0.00000
2 Total Tetra-Furans	23.11	3.845e2	5.244e2	0.70	NO	1.0087	1.0087
3 Total Tetra-Furans	23.83	4.819e2	5.730e2	0.80	NO	1.1730	1.1730
4 Total Tetra-Furans	24.20	2.464e2	3.550e2	0.89	NO	0.68112	0.88112
5 Total Tetra-Furans	24.48	5.804e1	5.798e1	0.97	YES	0.11821	0.00000
6 Total Tetra-Furans	25.13	3.107e2	4.377e2	0.71	NO	0.84752	0.84752
7 Total Tetra-Furans	25.35	7.229e1	8.658e1	1.09	YES	0.13342	0.00000
8 Total Tetra-Furans	25.50	1.231e3	1.543e3	0.80	NO	3.1411	3.1411
9 Total Tetra-Furans	26.22	1.680e2	2.121e2	0.79	NO	0.43048	0.43048



Name	Resp	RA	rvy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.076			212		1.07	212
43 Total Tetra-Furans				0.88	10.076			11.4		0.102	12.1
44 1st Func. Penta-Furans				0.95	10.076			2.36		0.0504	2.30
45 Total Penta-Furans				0.95	10.076			12.8		0.126	13.5
46 Total Hexa-Furans				1.12	10.076			12.5		0.165	13.0
47 Total Hepta-Furans				1.18	10.076			21.6		0.237	21.8
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Tetra-Furans	22.47	6.145e1	9.589e1	0.64	YES	0.15899	0.00000
2 Total Tetra-Furans	23.11	3.645e2	5.244e2	0.70	NO	1.0067	1.0067
3 Total Tetra-Furans	23.83	4.619e2	5.739e2	0.80	NO	1.1730	1.1730
4 Total Tetra-Furans	24.20	2.464e2	3.550e2	0.69	NO	0.69112	0.69112
5 Total Tetra-Furans	24.48	5.604e1	5.798e1	0.97	YES	0.11621	0.00000
6 Total Tetra-Furans	25.13	3.107e2	4.377e2	0.71	NO	0.84752	0.84752
7 Total Tetra-Furans	25.35	7.229e1	6.856e1	1.09	YES	0.13342	0.00000
8 Total Tetra-Furans	25.50	1.231e3	1.543e3	0.80	NO	3.1411	3.1411
9 Total Tetra-Furans	26.22	1.680e2	2.121e2	0.79	NO	0.43048	0.43048



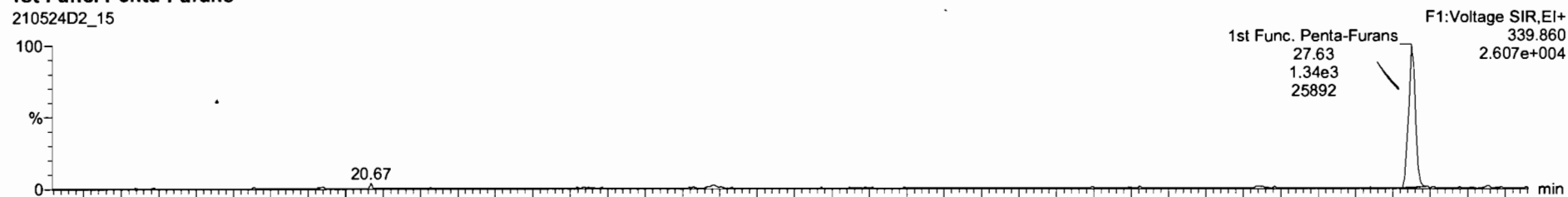
Dataset: U:\VG7.PRO\Results\210524D2\210524D2-15.qld

Last Altered: Wednesday, May 26, 2021 12:13:12 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:13:27 Pacific Daylight Time

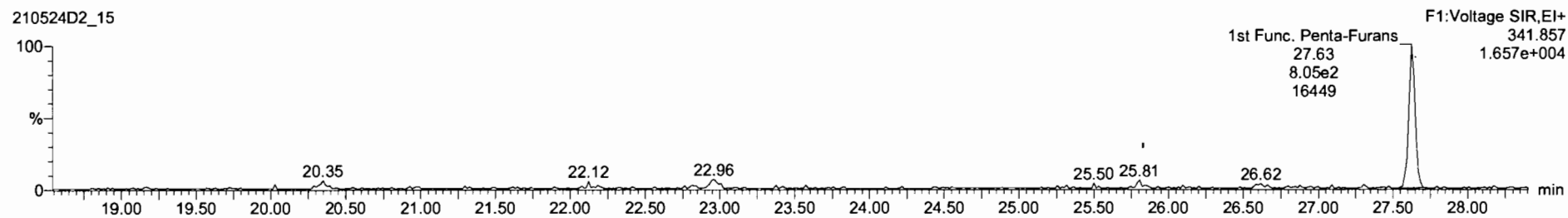
Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429

1st Func. Penta-Furans

210524D2_15

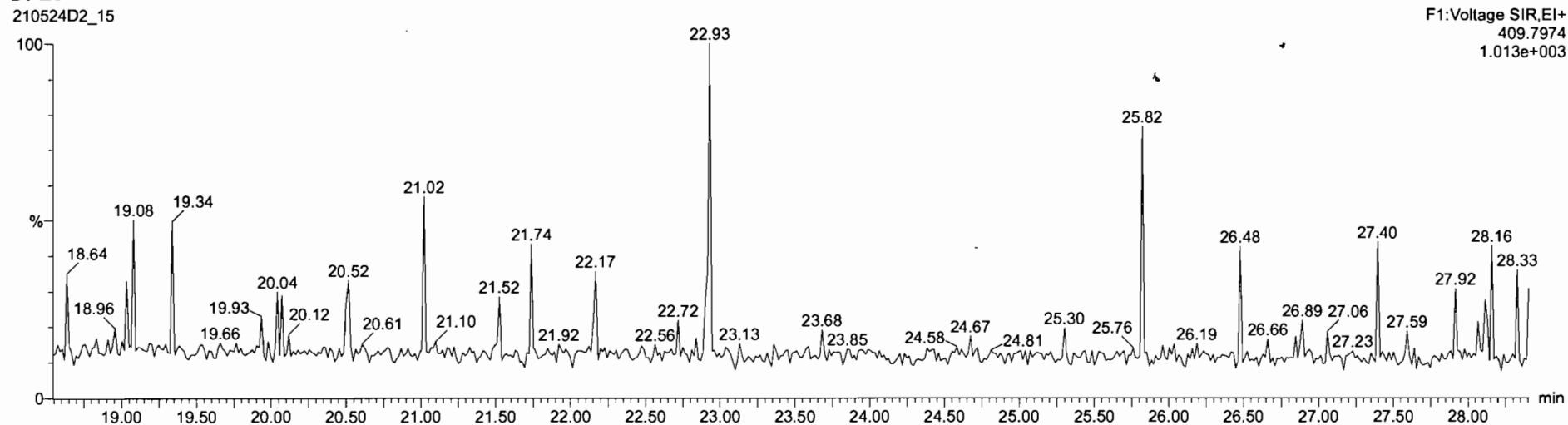


210524D2_15



DPE6

210524D2_15

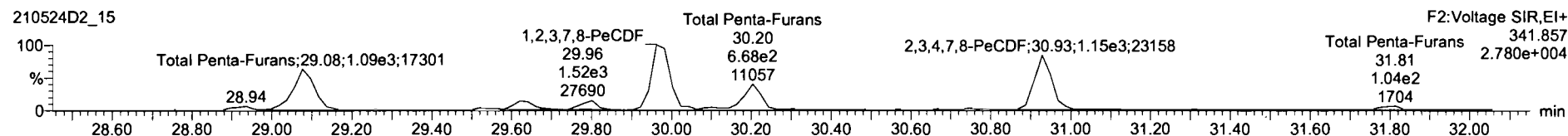
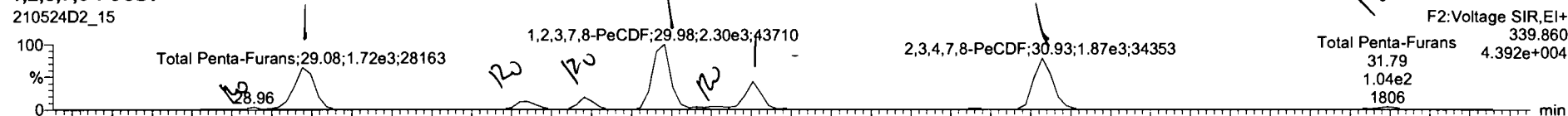


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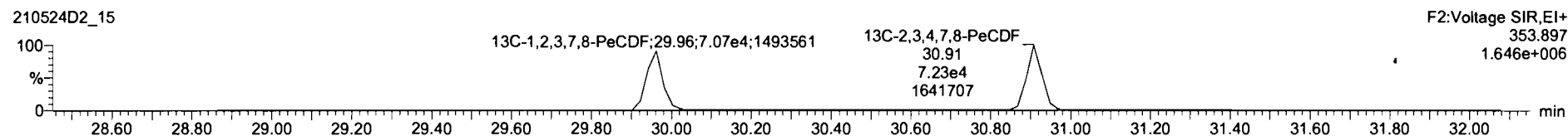
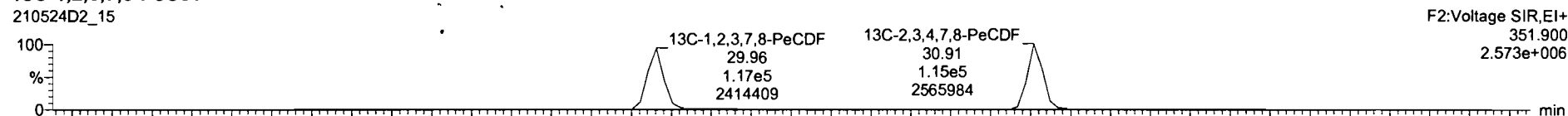
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 Printed: Wednesday, May 26, 2021 12:13:27 Pacific Daylight Time

Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429

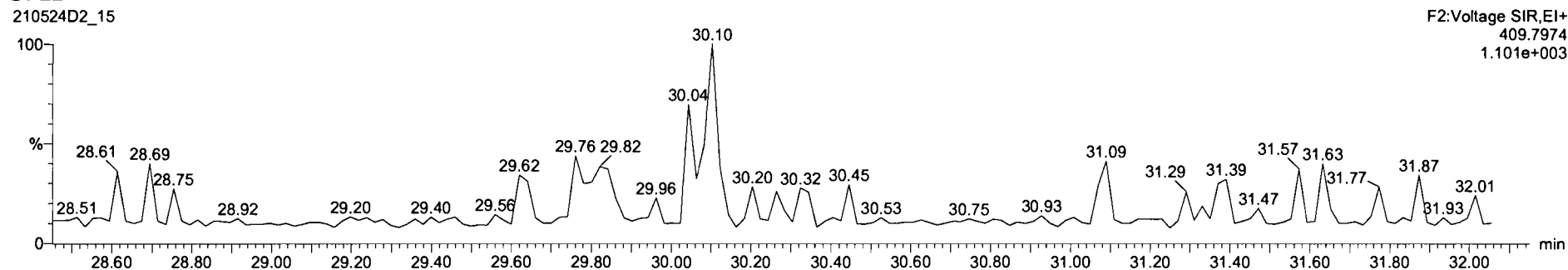
1,2,3,7,8-PeCDF



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

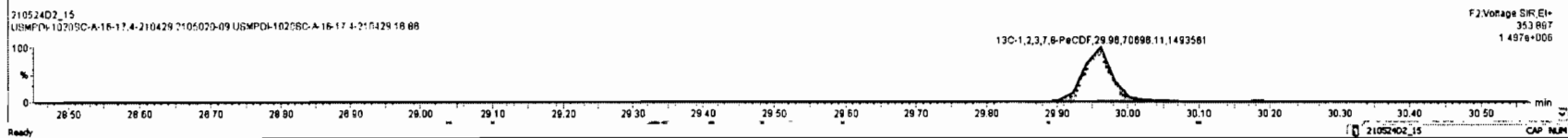
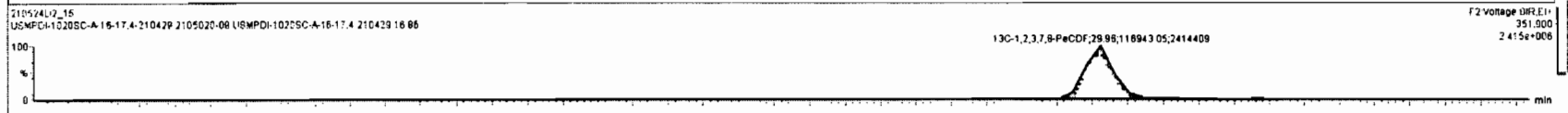
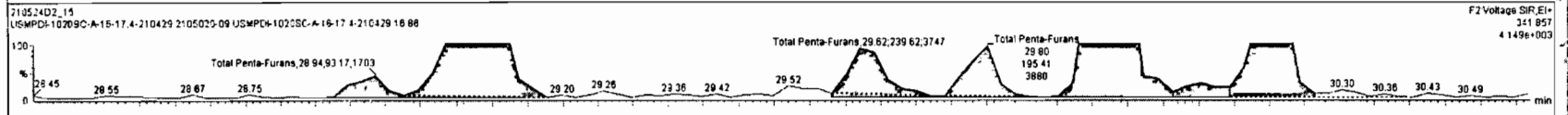
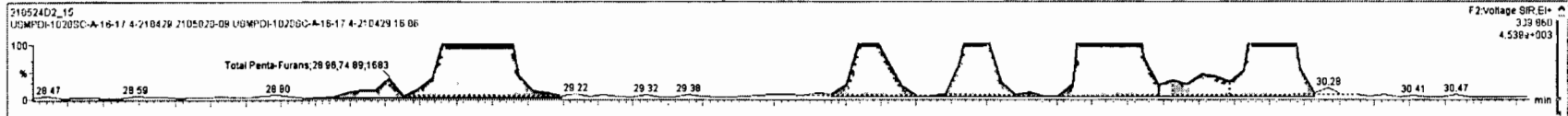


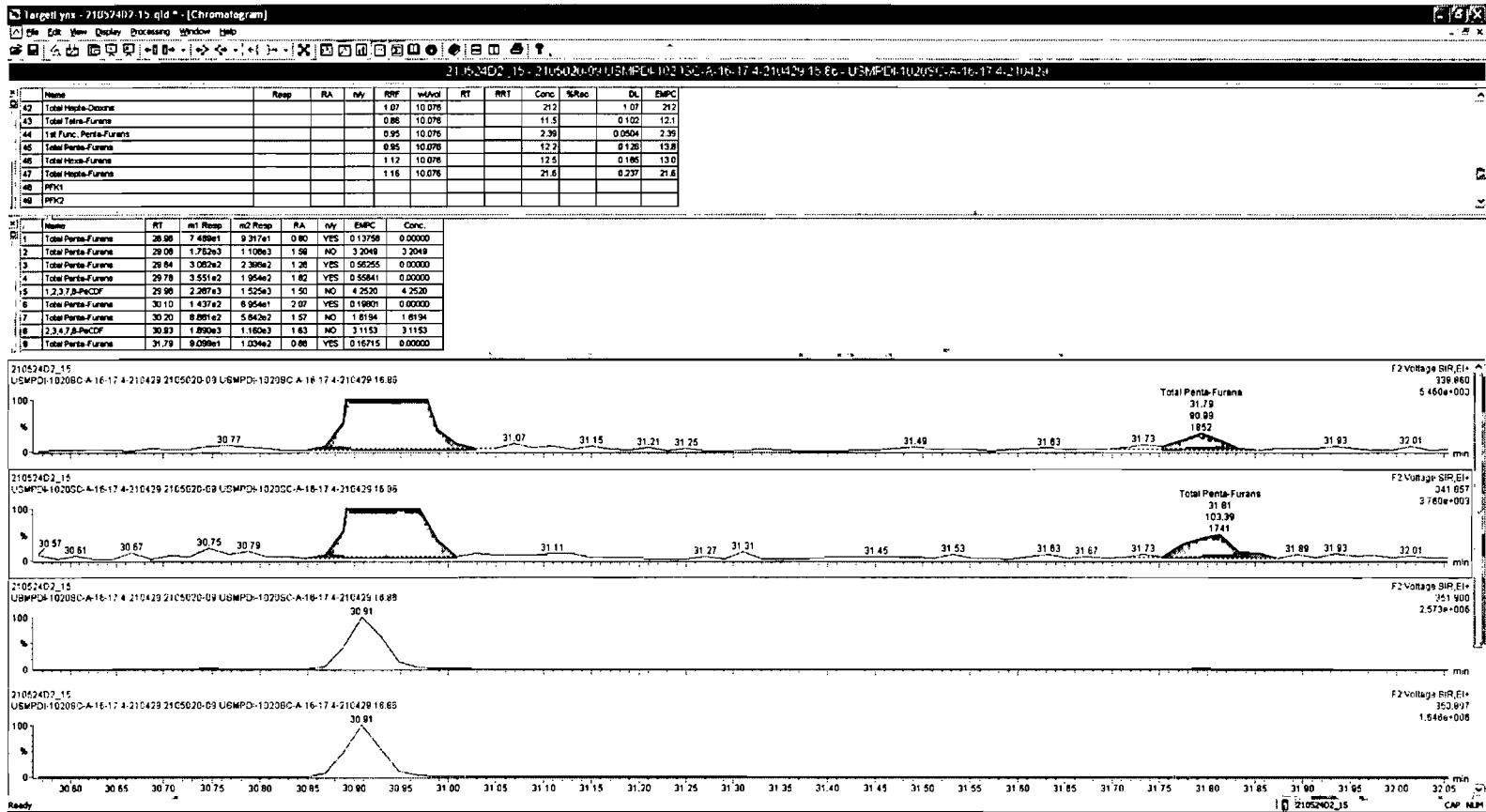
DPE2



Name	Resp	RA	rvy	RRF	wtAvr	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.07	10.076			212		1.07	212
43 Total Tetra-Furans				0.86	10.076			11.5		0.102	12.1
44 1st Func. Penta-Furans				0.95	10.076			2.39		0.0504	2.39
45 Total Penta-Furans				0.85	10.076			12.2		0.128	13.8
46 Total Hexa-Furans				1.12	10.076			12.5		0.165	13.0
47 Total Hepta-Furans				1.16	10.076			21.6		0.237	21.6
48 PPK1											
49 PPK2											

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Penta-Furans	28.98	7.489e1	9.317e1	0.80	YES	0.13758	0.00000
2 Total Penta-Furans	29.00	1.763e3	1.109e3	1.59	NO	3.2040	3.2040
3 Total Penta-Furans	29.64	3.062e2	2.396e2	1.28	YES	0.56255	0.00000
4 Total Penta-Furans	29.78	3.551e2	1.954e2	1.82	YES	0.55641	0.00000
5 1,2,3,7,8-PeCDF	29.98	2.287e3	1.525e3	1.50	NO	4.2520	4.2520
6 Total Penta-Furans	30.10	1.437e2	6.954e1	2.07	YES	0.19801	0.00000
7 Total Penta-Furans	30.20	8.861e2	5.642e2	1.57	NO	1.8194	1.8194
8 2,3,4,7,8-PeCDF	30.83	1.890e3	1.180e3	1.83	NO	3.1153	3.1153
9 Total Penta-Furans	31.79	9.099e1	1.034e2	0.88	YES	0.16715	0.00000



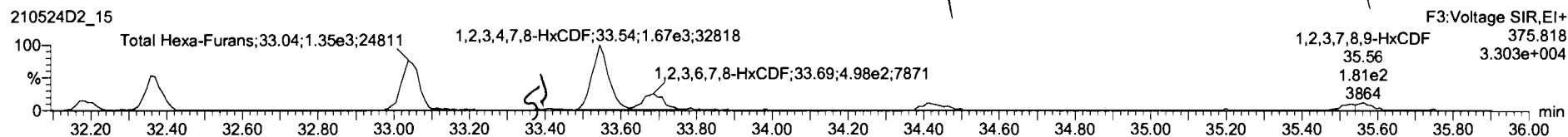
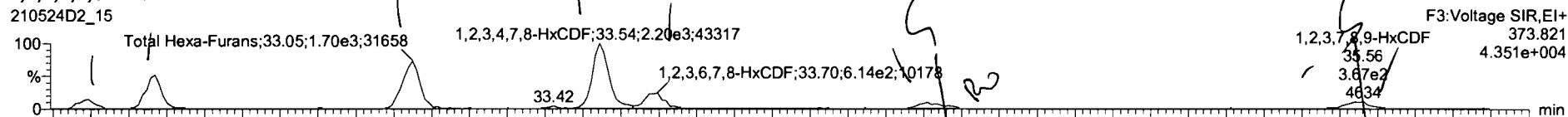


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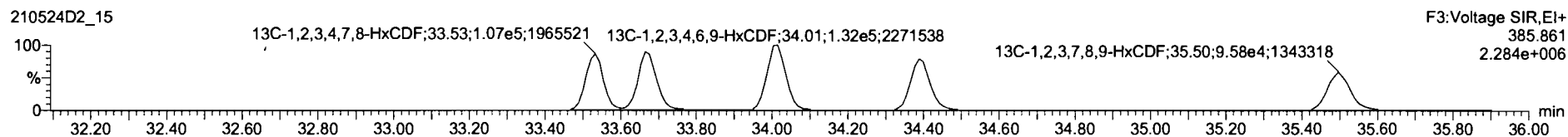
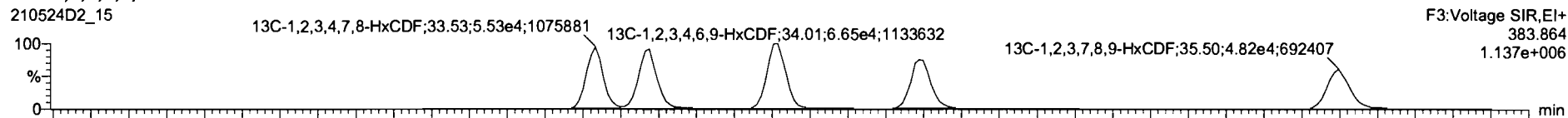
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Printed: Wednesday, May 26, 2021 12:13:27 Pacific Daylight Time

Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429

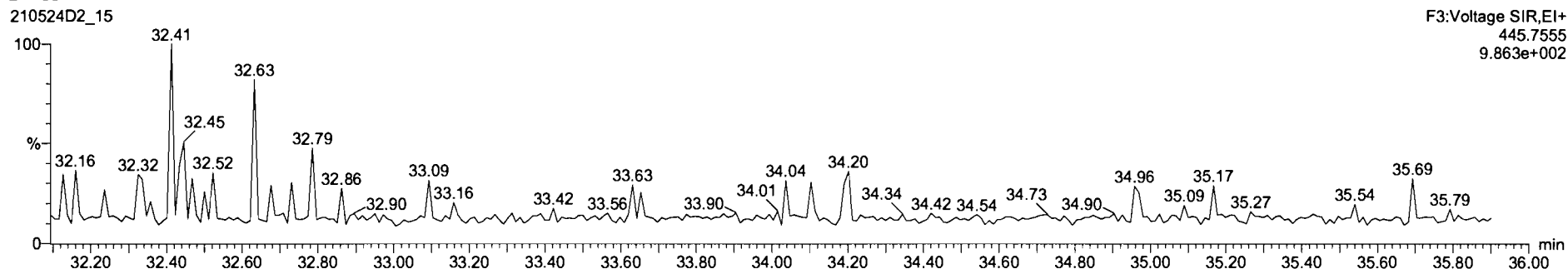
1,2,3,4,7,8-HxCDF

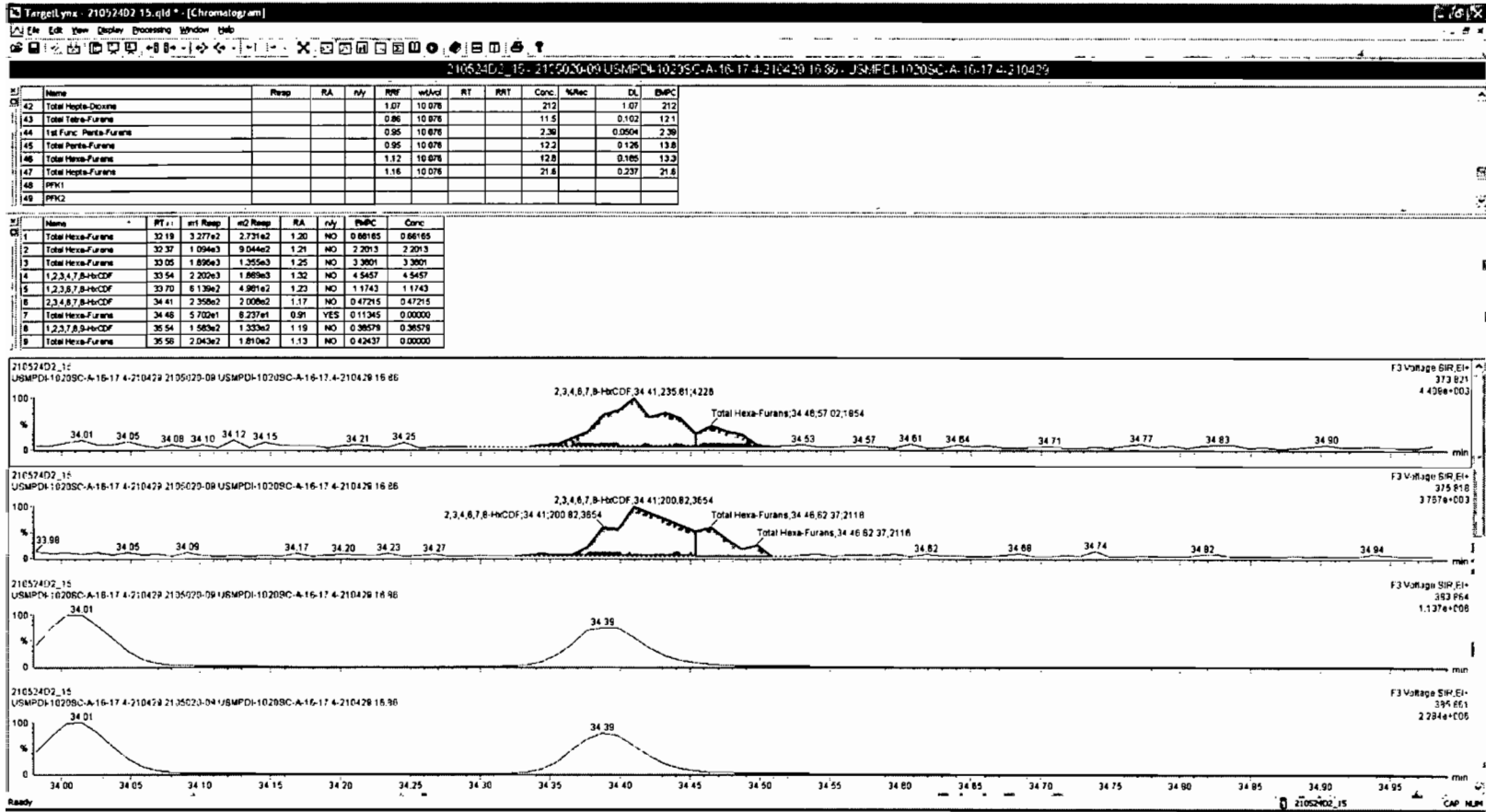


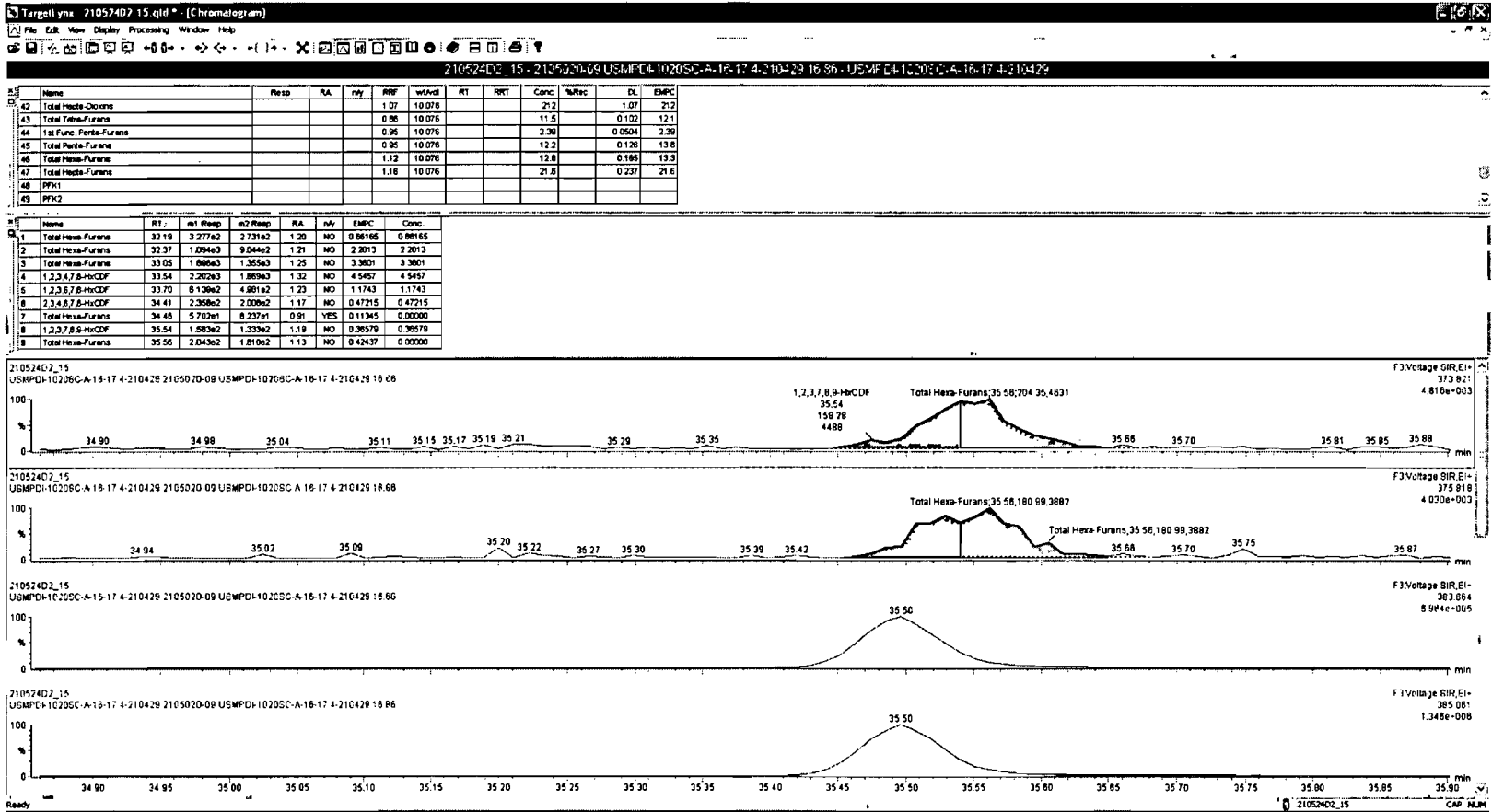
13C-1,2,3,4,7,8-HxCDF



DPE3





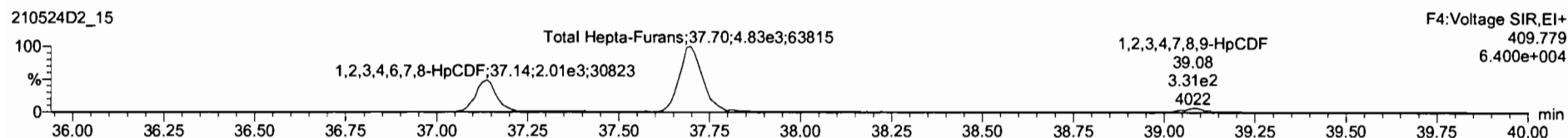
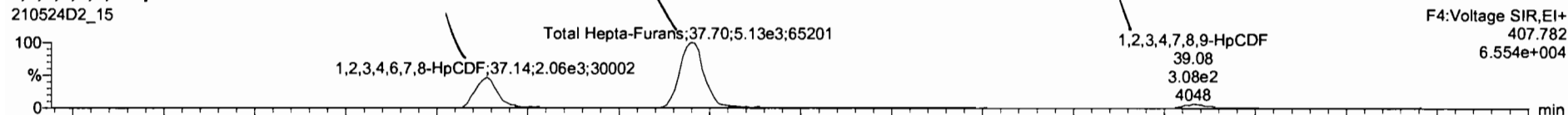


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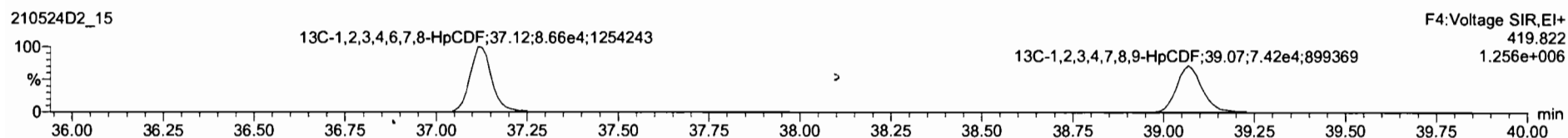
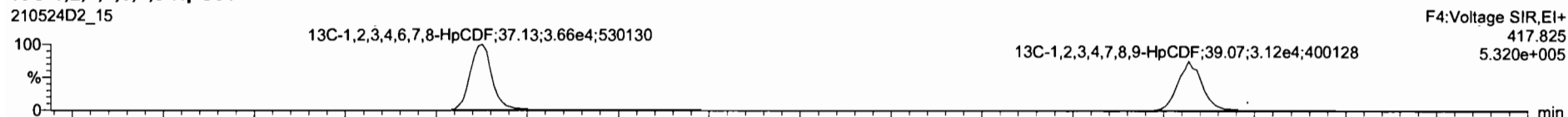
Last Altered: Wednesday, May 26, 2021 12:13:12 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:13:27 Pacific Daylight Time

Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429

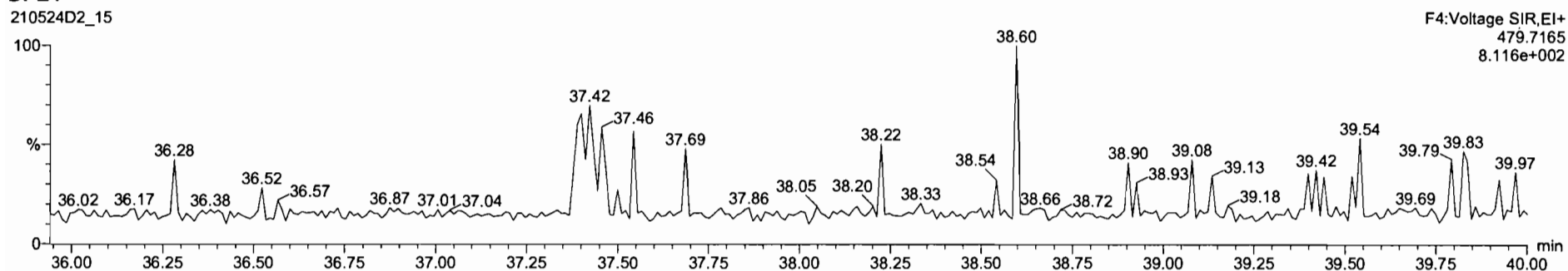
1,2,3,4,6,7,8-HpCDF



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



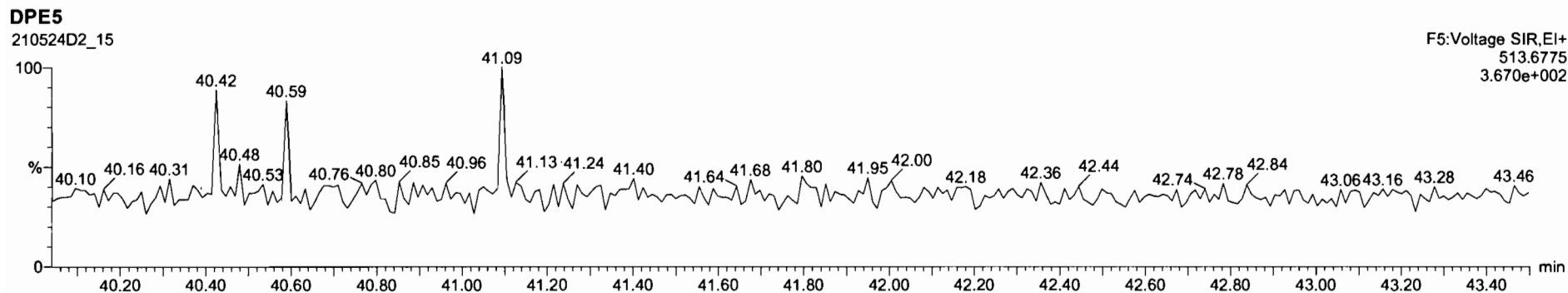
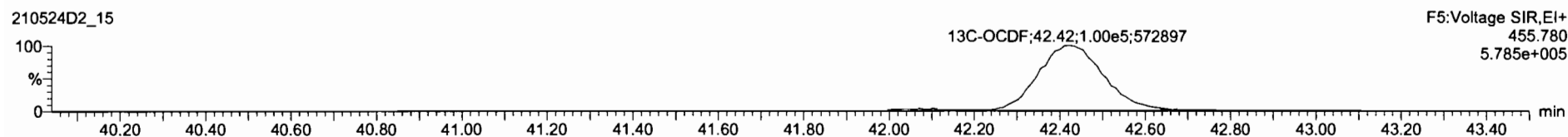
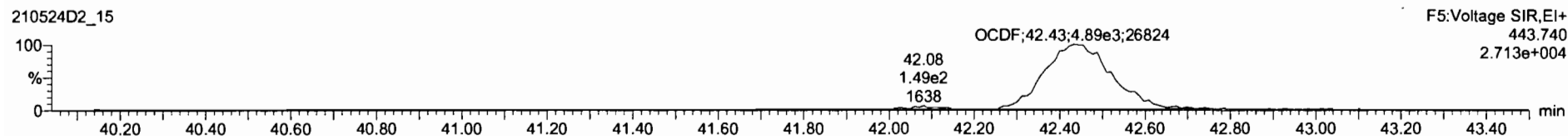
DPE4



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-15.qld

Last Altered: Wednesday, May 26, 2021 12:13:12 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:13:27 Pacific Daylight Time

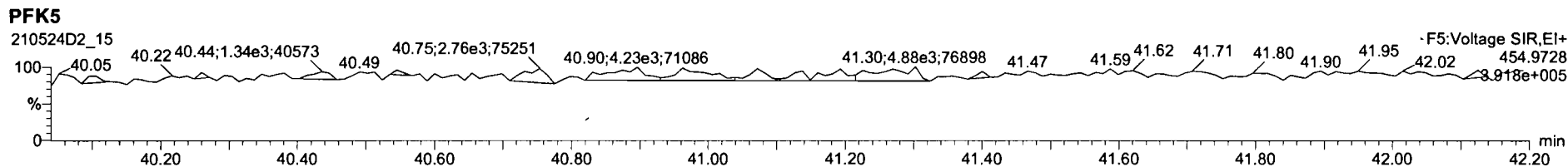
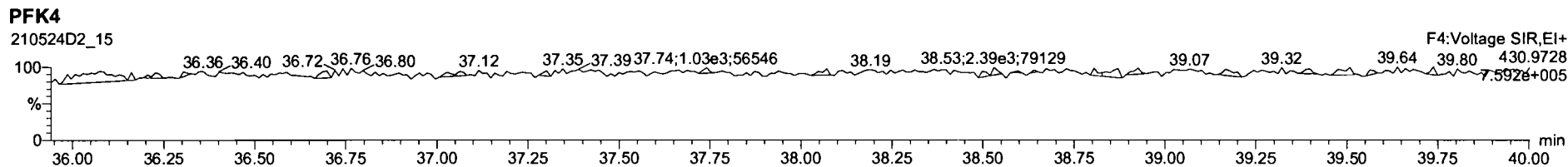
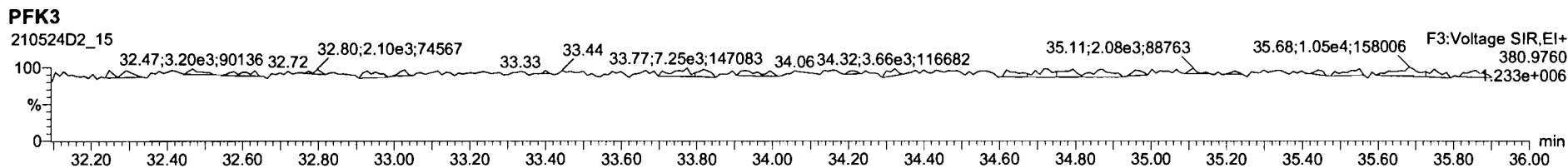
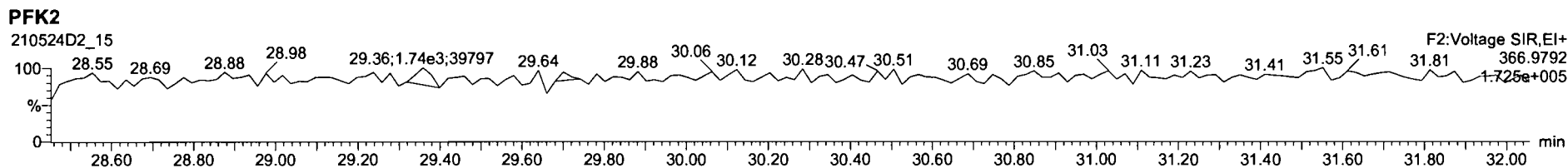
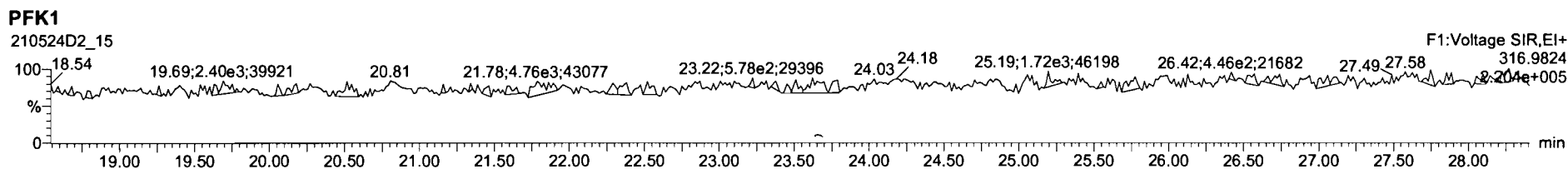
Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429



Dataset: U:\VG7.PRO\Results\210524D2\210524D2-15.qld

Last Altered: Wednesday, May 26, 2021 12:13:12 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:13:27 Pacific Daylight Time

Name: 210524D2_15, Date: 25-May-2021, Time: 06:02:47, ID: 2105020-09 USMPDI-1020SC-A-16-17.4-210429 16.86, Description: USMPDI-1020SC-A-16-17.4-210429



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST210524D2-1

Reviewed By: HN 05/27/21

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>He</u>	<u>D</u>
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"/>

Mass resolution \geq

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

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

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

Comments:

- (A) Begin res check used from ST210524D1, did not print
- (B) some masses under 10k

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-2.qld

Last Altered: Tuesday, May 25, 2021 8:48:27 AM Pacific Daylight Time
Printed: Wednesday, May 26, 2021 2:52:13 PM Pacific Daylight Time

HN 05/27/21
lk 5:16 AM

Method: Untitled 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_2, Date: 24-May-2021, Time: 19:56:42, ID: ST210524D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	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	8.32e3	8.13e4	0.76	NO	1.05	26.96	26.95	NO	1.001	1.001	9.7666	97.7	NO
2	2 1,2,3,7,8-PeCDD	2.63e4	5.86e4	0.61	NO	0.881	31.13	31.11	NO	1.001	1.000	50.974	102	NO
3	3 1,2,3,4,7,8-HxCDD	2.69e4	4.79e4	1.29	NO	1.14	34.54	34.54	NO	1.000	1.000	49.077	98.2	NO
4	4 1,2,3,6,7,8-HxCDD	2.65e4	5.37e4	1.29	NO	1.01	34.67	34.66	NO	1.000	1.000	48.809	97.6	NO
5	5 1,2,3,7,8,9-HxCDD	2.72e4	5.25e4	1.27	NO	1.02	34.99	34.97	NO	1.001	1.000	50.880	102	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.16e4	4.27e4	1.03	NO	1.07	38.41	38.41	NO	1.000	1.000	47.535	95.1	NO
7	7 OCDD	3.10e4	6.14e4	0.95	NO	1.00	42.53	42.60	NO	1.000	1.002	100.92	101	NO
8	8 2,3,7,8-TCDF	1.12e4	1.35e5	0.71	NO	0.864	26.38	26.37	NO	1.001	1.001	9.5867	95.9	NO
9	9 1,2,3,7,8-PeCDF	4.53e4	9.22e4	1.70	NO	0.948	30.00	30.00	NO	1.001	1.001	51.836	104	NO
10	10 2,3,4,7,8-PeCDF	5.13e4	9.40e4	1.65	NO	1.04	30.96	30.95	NO	1.001	1.001	52.565	105	NO
11	11 1,2,3,4,7,8-HxCDF	3.93e4	7.92e4	1.26	NO	1.04	33.57	33.55	NO	1.001	1.000	47.578	95.2	NO
12	12 1,2,3,6,7,8-HxCDF	4.14e4	8.02e4	1.27	NO	1.07	33.70	33.70	NO	1.000	1.000	48.040	96.1	NO
13	13 2,3,4,6,7,8-HxCDF	3.88e4	7.02e4	1.32	NO	1.12	34.43	34.44	NO	1.000	1.001	49.476	99.0	NO
14	14 1,2,3,7,8,9-HxCDF	3.36e4	6.50e4	1.29	NO	1.10	35.50	35.51	NO	1.000	1.000	47.116	94.2	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.28e4	5.55e4	1.06	NO	1.16	37.11	37.09	NO	1.001	1.001	50.896	102	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.55e4	4.33e4	1.03	NO	1.19	39.21	39.23	NO	1.000	1.001	49.663	99.3	NO
17	17 OCDF	3.82e4	8.74e4	0.89	NO	0.909	42.95	42.96	NO	1.000	1.000	96.108	96.1	NO
18	18 13C-2,3,7,8-TCDD	8.13e4	6.93e4	0.78	NO	1.15	26.92	26.94	NO	1.024	1.025	102.43	102	NO
19	19 13C-1,2,3,7,8-PeCDD	5.86e4	6.93e4	0.63	NO	0.887	31.11	31.11	NO	1.184	1.184	95.445	95.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.79e4	7.97e4	1.26	NO	0.645	34.51	34.53	NO	1.014	1.015	93.156	93.2	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.37e4	7.97e4	1.30	NO	0.717	34.67	34.65	NO	1.019	1.018	93.978	94.0	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.25e4	7.97e4	1.29	NO	0.714	34.94	34.96	NO	1.027	1.027	92.139	92.1	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.27e4	7.97e4	1.06	NO	0.583	38.33	38.40	NO	1.127	1.128	91.855	91.9	NO
24	24 13C-OCDD	6.14e4	7.97e4	0.91	NO	0.451	41.87	42.53	NO	1.230	1.250	170.50	85.3	NO
25	25 13C-2,3,7,8-TCDF	1.35e5	1.23e5	0.76	NO	1.09	26.34	26.36	NO	1.002	1.003	100.94	101	NO
26	26 13C-1,2,3,7,8-PeCDF	9.22e4	1.23e5	1.63	NO	0.805	29.98	29.98	NO	1.141	1.141	93.104	93.1	NO
27	27 13C-2,3,4,7,8-PeCDF	9.40e4	1.23e5	1.61	NO	0.792	30.93	30.93	NO	1.177	1.177	96.436	96.4	NO
28	28 13C-1,2,3,4,7,8-HxCDF	7.92e4	7.97e4	0.50	NO	0.997	33.53	33.54	NO	0.985	0.986	99.532	99.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	8.02e4	7.97e4	0.49	NO	1.03	33.70	33.69	NO	0.990	0.990	97.734	97.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	7.02e4	7.97e4	0.49	NO	0.940	34.40	34.42	NO	1.011	1.012	93.632	93.6	NO
31	31 13C-1,2,3,7,8,9-HxCDF	6.50e4	7.97e4	0.49	NO	0.852	35.51	35.50	NO	1.044	1.043	95.610	95.6	NO

Dataset: U:\VG7.PRO\Results\210524D2\210524D2-2.qld

Last Altered: Tuesday, May 25, 2021 8:48:27 AM Pacific Daylight Time
Printed: Wednesday, May 26, 2021 2:52:13 PM Pacific Daylight Time

Name: 210524D2_2, Date: 24-May-2021, Time: 19:56:42, ID: ST210524D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	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	5.55e4	7.97e4	0.44	NO	0.727	37.06	37.07	NO	1.089	1.089	95.821	95.8	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.33e4	7.97e4	0.42	NO	0.608	39.02	39.21	NO	1.147	1.152	89.259	89.3	NO
34	34 13C-OCDF	8.74e4	7.97e4	0.88	NO	0.631	42.23	42.95	NO	1.241	1.262	173.78	86.9	NO
35	35 37Cl-2,3,7,8-TCDD	1.45e4	6.93e4			2.22	26.93	26.95	NO	1.025	1.026	9.4429	94.4	NO
36	36 13C-1,2,3,4-TCDD	6.93e4	6.93e4	0.85	NO	1.00	26.28	26.28	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.23e5	1.23e5	0.77	NO	1.00	25.04	25.04	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.97e4	7.97e4	0.49	NO	1.00	34.06	34.03	NO	1.000	1.000	100.00	100	NO

Dataset: Untitled

Last Altered: Wednesday, May 26, 2021 11:18:58 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 11:33:38 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Compound name: 37Cl-2,3,7,8-TCDD

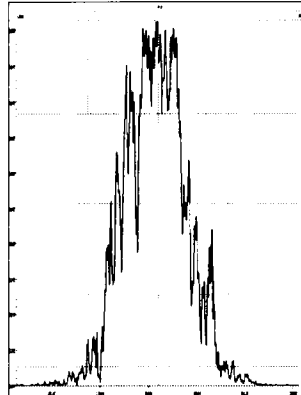
	Name	ID	Acq.Date	Acq.Time
1	210524D2_1	SOLVENT BLANK	24-May-21	19:11:02
2	210524D2_2	ST210524D2-1 1613 CS3 21C0105	24-May-21	19:56:42
3	210524D2_3	B1E0138-BS1 OPR 10	24-May-21	20:43:24
4	210524D2_4	SOLVENT BLANK	24-May-21	21:30:05
5	210524D2_5	B1E0138-BLK1 Method Blank 10	24-May-21	22:16:47
6	210524D2_6	2105020-01 USMPDI-017SC-A-00-01-210429 ...	24-May-21	23:03:22
7	210524D2_7	2105020-02 USMPDI-017SC-A-02-03-210429 ...	24-May-21	23:50:03
8	210524D2_8	2105020-03 USMPDI-017SC-A-12-13-210429 ...	25-May-21	00:36:39
9	210524D2_9	2105020-04 USMPDI-017SC-A-13-14-210429 ...	25-May-21	01:23:20
10	210524D2_10	2105020-05 USMPDI-017SC-A-14-15-210429 ...	25-May-21	02:09:58
11	210524D2_11	2105020-06 USMPDI-017SC-A-15-16-210429 ...	25-May-21	02:56:43
12	210524D2_12	2105020-07 USMPDI-020SC-A-15-16-210429 ...	25-May-21	03:42:37
13	210524D2_13	B1E0138-DUP1 Duplicate 16.44	25-May-21	04:29:20
14	210524D2_14	2105020-08 USMPDI-020SC-A-16-17.4-210429...	25-May-21	05:16:04
15	210524D2_15	2105020-09 USMPDI-1020SC-A-16-17.4-2104...	25-May-21	06:02:47

Ⓟ Bad inj, RI

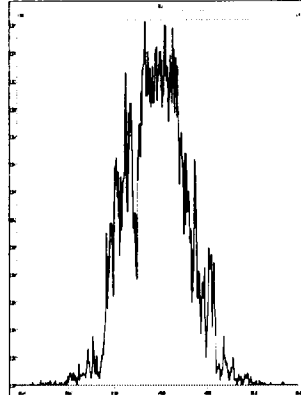
File: Experiment: ocdd_db5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, May 24, 2021 12:34:47 Pacific Daylight Time

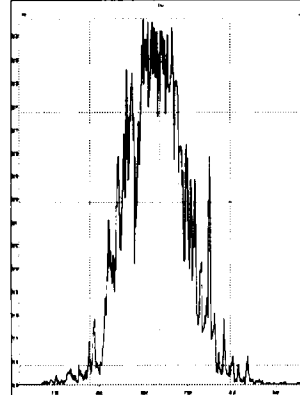
M 292.9824 R 11958



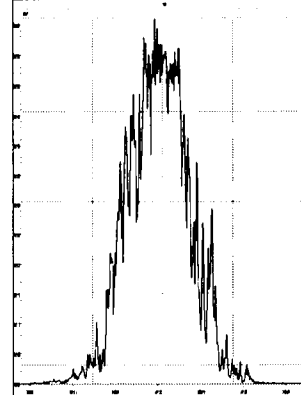
M 304.9824 R 12195



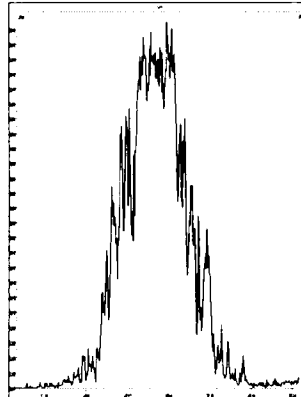
M 318.9792 R 12134



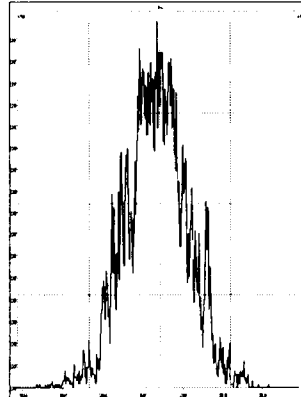
M 330.9792 R 11958



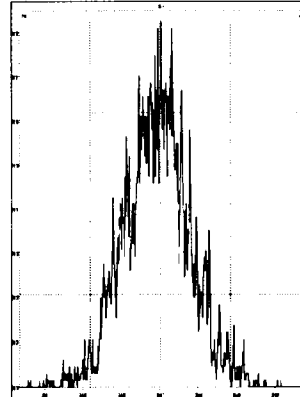
M 342.9792 R 11848



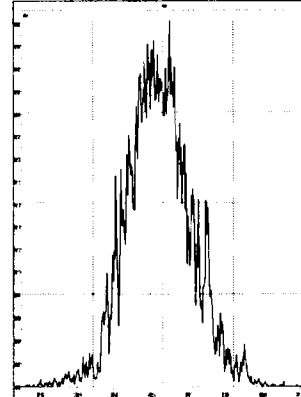
M 354.9792 R 11790



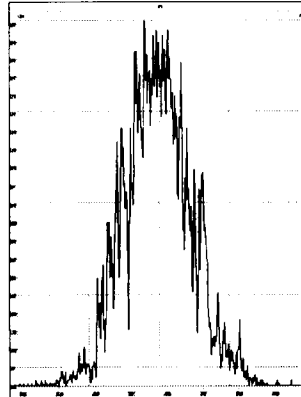
M 366.9792 R 11733



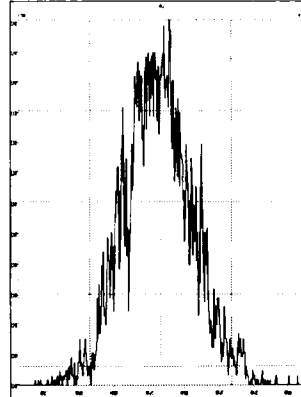
M 380.9760 R 11363



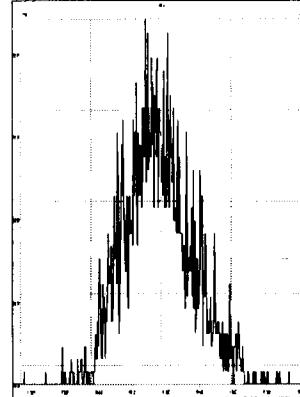
M 392.9760 R 10202



M 404.9760 R 10639



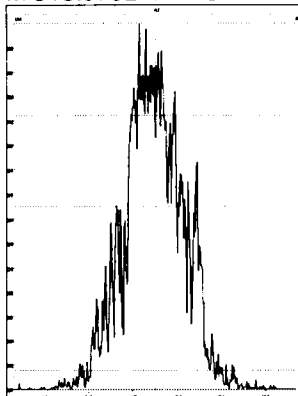
M 416.9760 R 10120



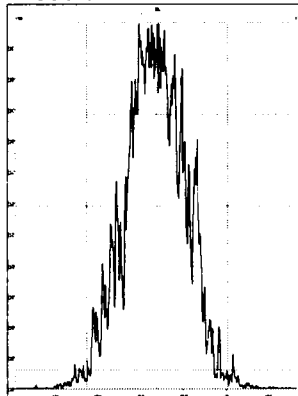
File: Experiment: ocdd_db5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, May 24, 2021 12:35:41 Pacific Daylight Time

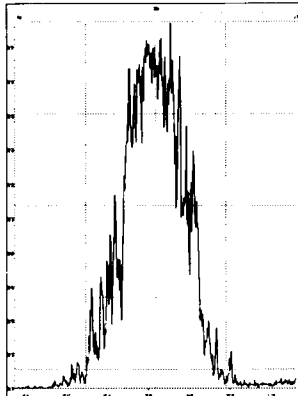
M 318.9792 R 11311



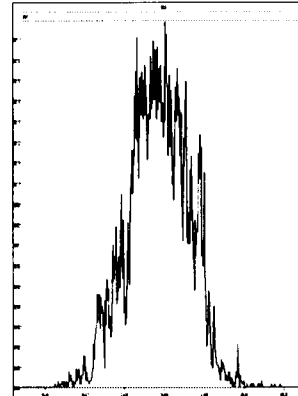
M 330.9792 R 11465



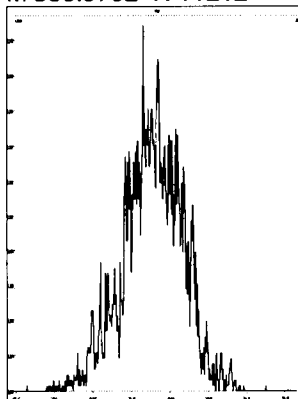
M 342.9792 R 11111



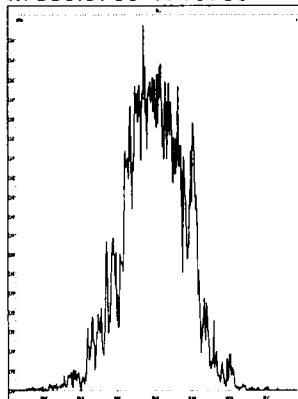
M 354.9792 R 11012



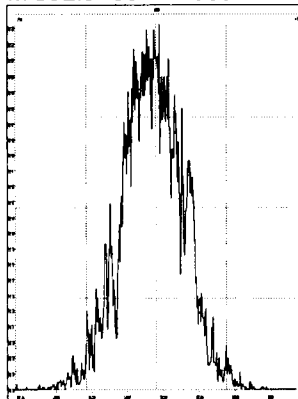
M 366.9792 R 11212



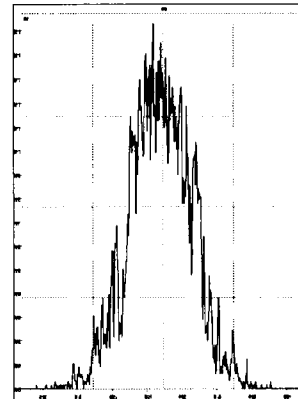
M 380.9760 R 10730



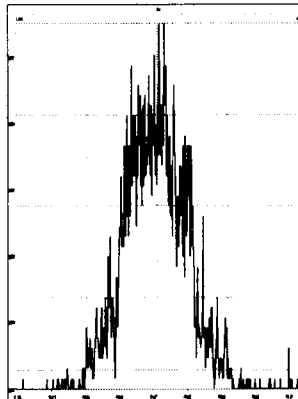
M 392.9760 R 10682



M 404.9760 R 11360



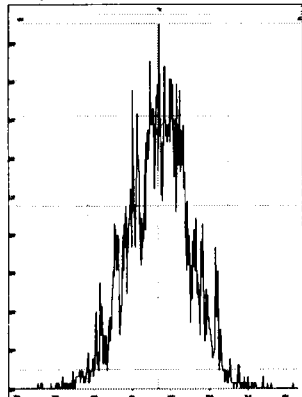
M 416.9760 R 11737



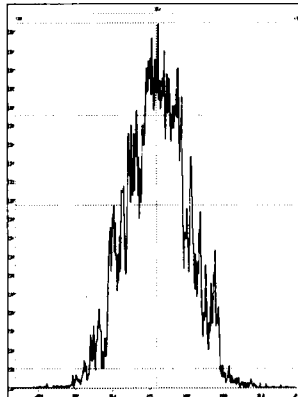
File: Experiment: ocdd_db5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, May 24, 2021 12:36:38 Pacific Daylight Time

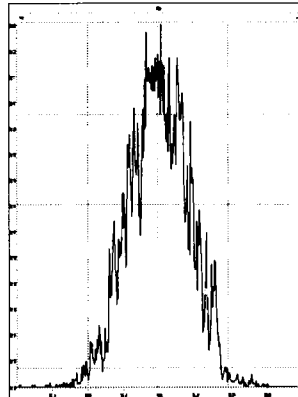
M 366.9792 R 10505



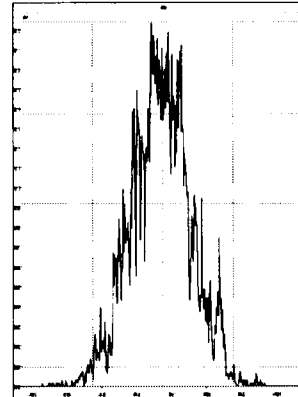
M 380.9760 R 10684



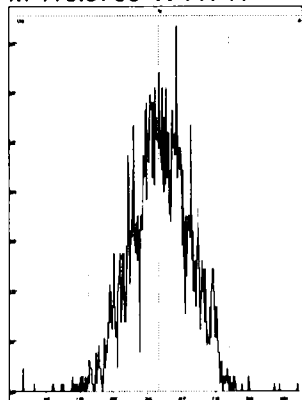
M 392.9760 R 11903



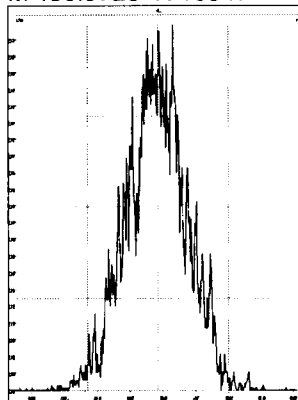
M 404.9760 R 11963



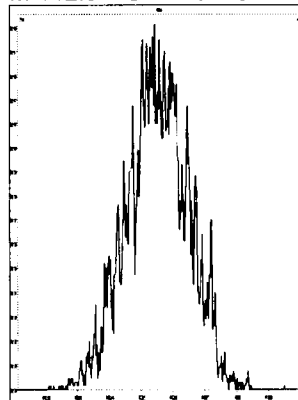
M 416.9760 R 11741



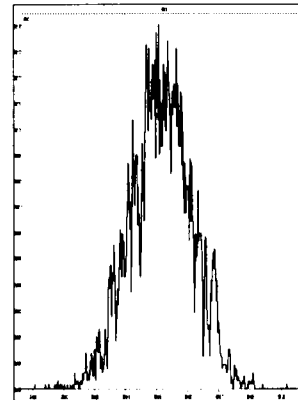
M 430.9728 R 10547



M 442.9728 R 10773



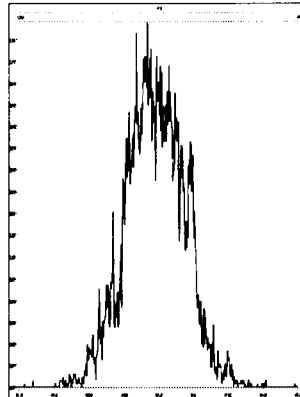
M 454.9728 R 10503



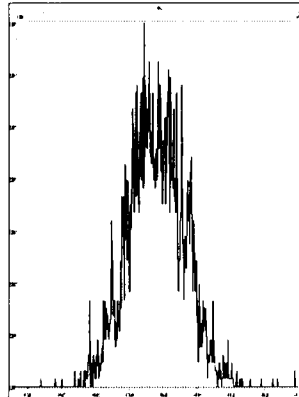
File: Experiment: ocdd_db5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, May 24, 2021 12:37:25 Pacific Daylight Time

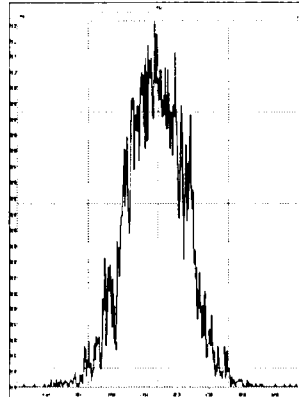
M 404.9760 R 11680



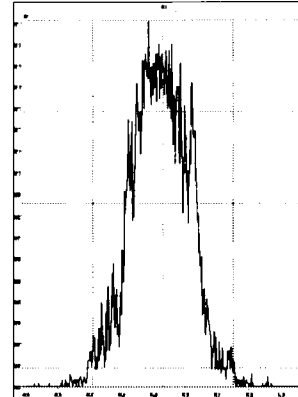
M 416.9760 R 11364



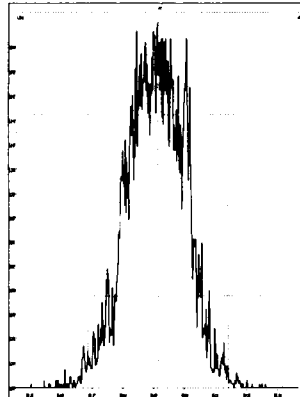
M 430.9728 R 11573



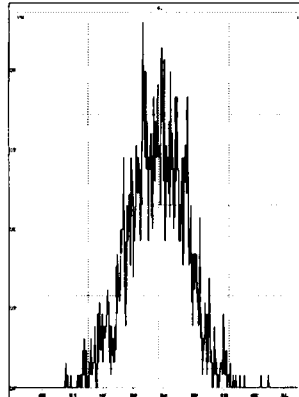
M 442.9728 R 10591



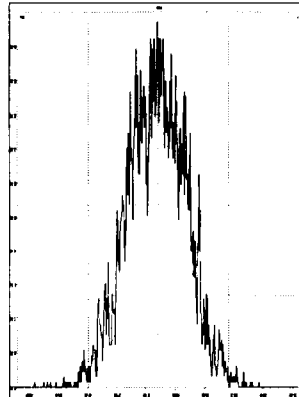
M 454.9728 R 10638



M 466.9728 R 13019



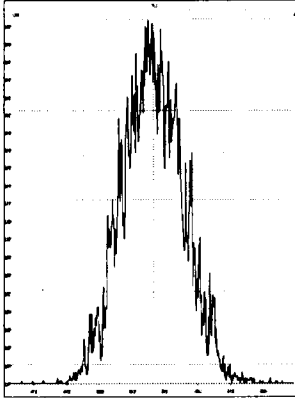
M 480.9696 R 12313



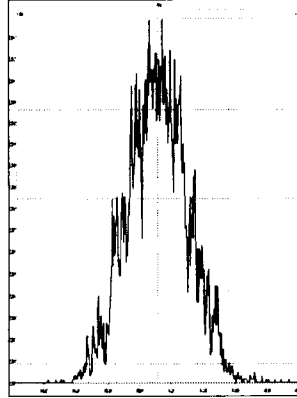
File: Experiment: ocdd_db5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, May 24, 2021 12:38:54 Pacific Daylight Time

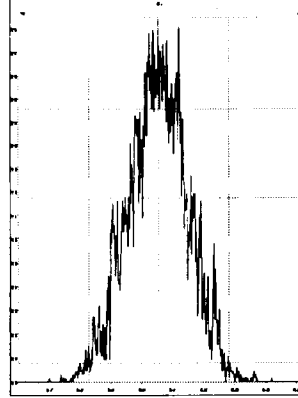
M 430.9728 R 10683



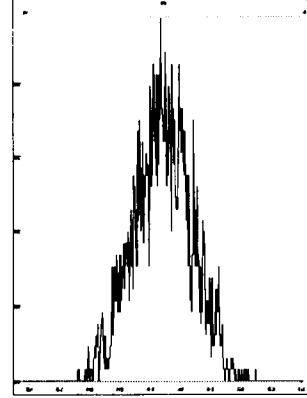
M 442.9728 R 10686



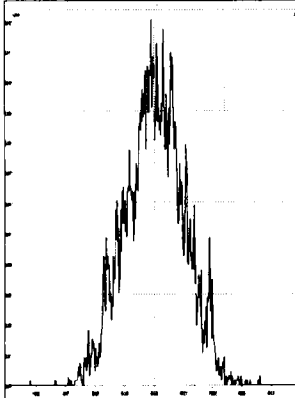
M 454.9728 R 10730



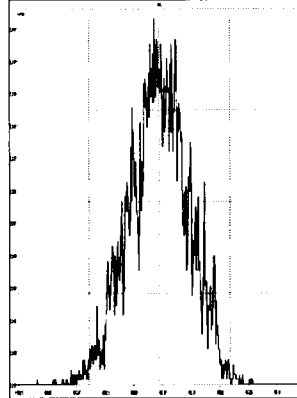
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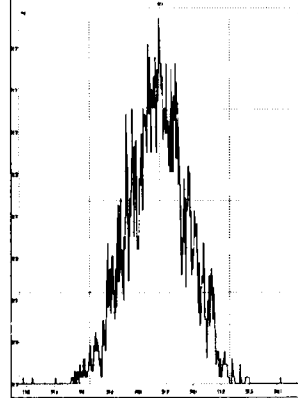
M 480.9696 R 10915



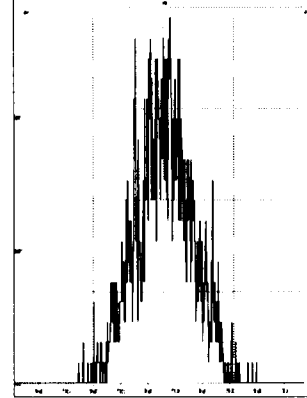
M 492.9696 R 10823



M 504.9696 R 12022



M 516.9697 R 12075



Dataset: Untitled

Last Altered: Wednesday, May 26, 2021 12:06:10 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:06:33 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 18 May 2021 09:20:10
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210524D2_2, Date: 24-May-2021, Time: 19:56:42, ID: ST210524D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1,3,6,8-TCDD (First)	23.80
2	1,2,8,9-TCDD (Last)	27.73
3	1,2,4,7,9-PeCDD (First)	29.08
4	1,2,3,8,9-PeCDD (Last)	31.45
5	1,2,4,6,7,9-HxCDD (First)	32.78
6	1,2,3,7,8,9-HxCDD (Last)	34.97
7	1,2,3,4,6,7,9-HpCDD (First)	37.38
8	1,2,3,4,6,7,8-HpCDD (Last)	38.41
9	1,3,6,8-TCDF (First)	21.92
10	1,2,8,9-TCDF (Last)	28.01
11	1,3,4,6,8-PeCDF (First)	27.61
12	1,2,3,8,9-PeCDF (Last)	31.81
13	1,2,3,4,6,8-HxCDF (First)	32.22
14	1,2,3,7,8,9-HxCDF (Last)	35.51
15	1,2,3,4,6,7,8-HpCDF (First)	37.09
16	1,2,3,4,7,8,9-HpCDF (Last)	39.23

Dataset: Untitled

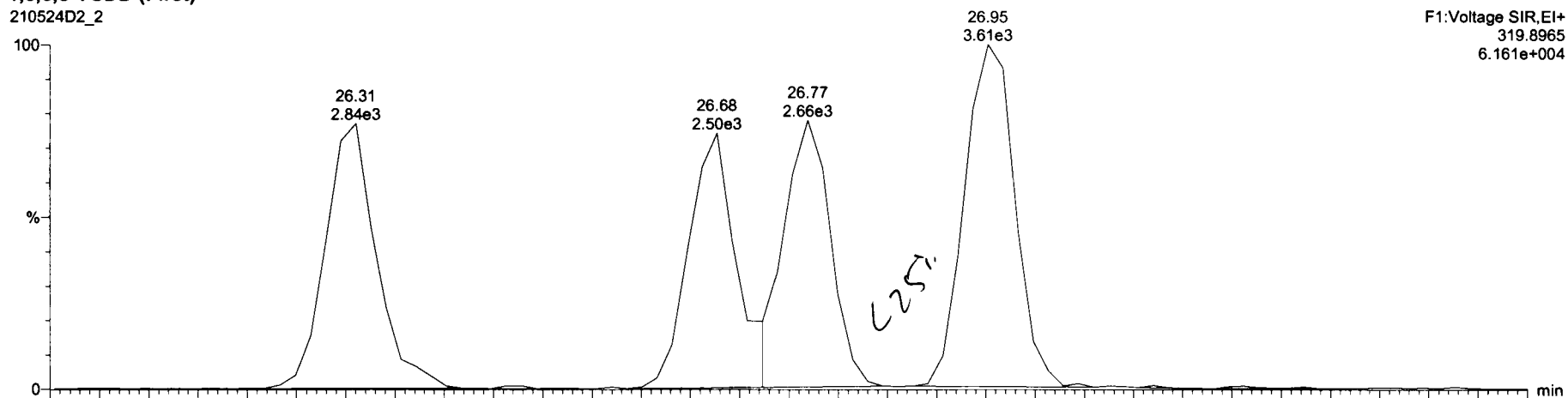
Last Altered: Wednesday, May 26, 2021 12:06:10 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:06:33 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 18 May 2021 09:20:10
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

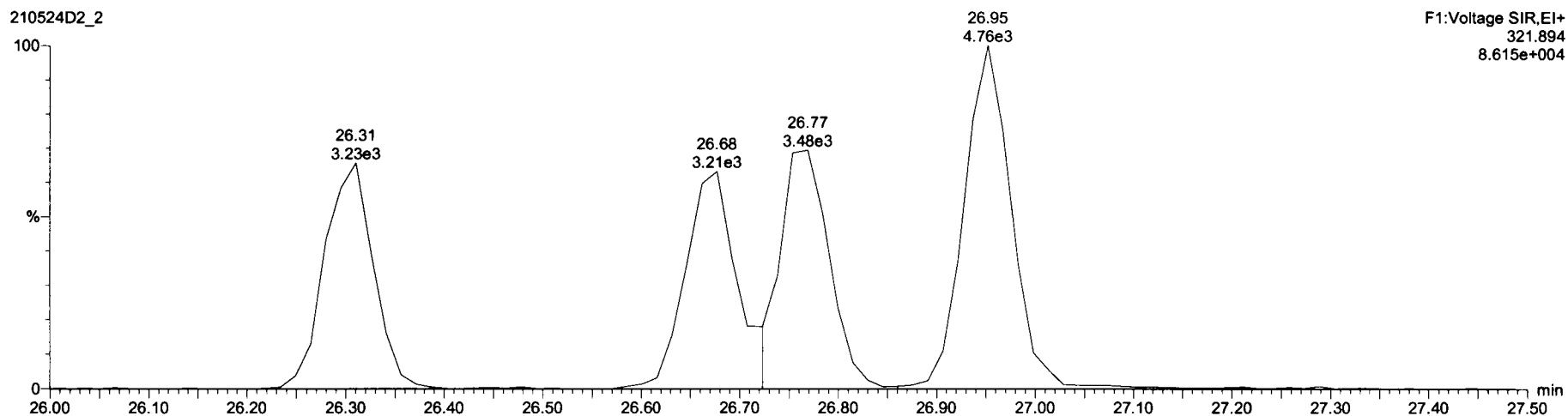
Name: 210524D2_2, Date: 24-May-2021, Time: 19:56:42, ID: ST210524D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

210524D2_2



210524D2_2



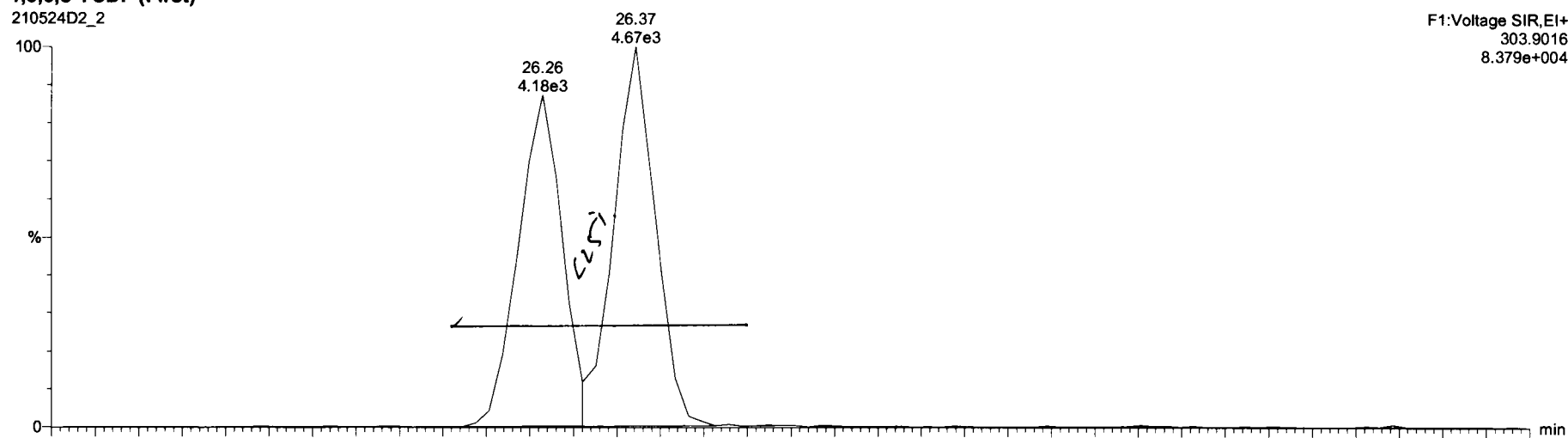
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Printed: Wednesday, May 26, 2021 12:06:33 Pacific Daylight Time

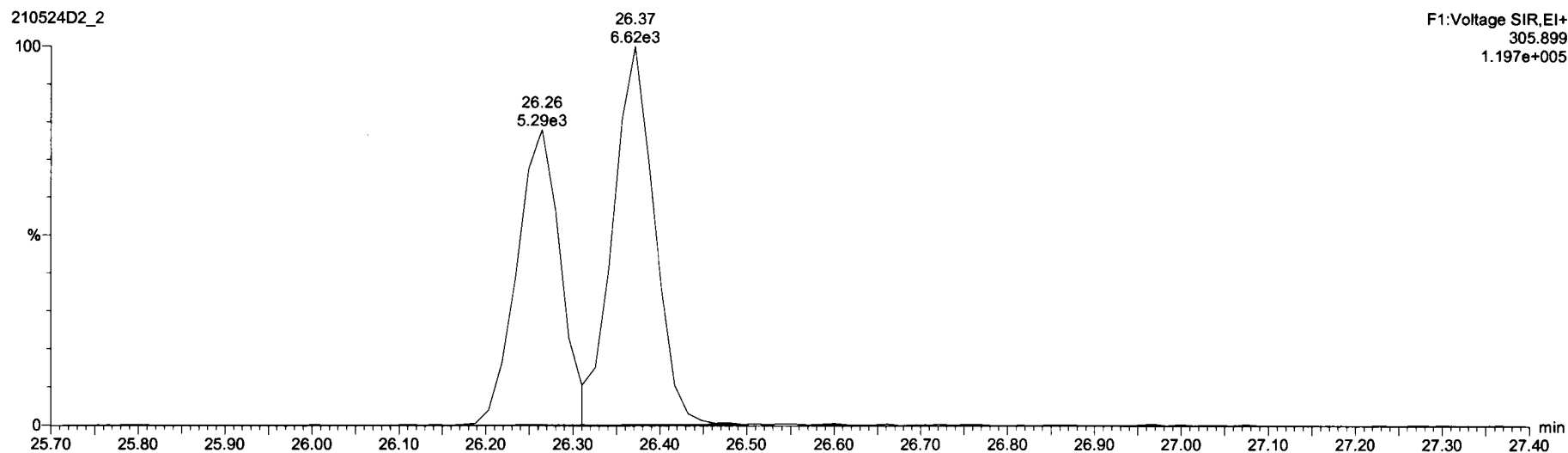
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1,3,6,8-TCDF (First)

210524D2_2



210524D2_2



Dataset: Untitled

Last Altered: Wednesday, May 26, 2021 12:07:34 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

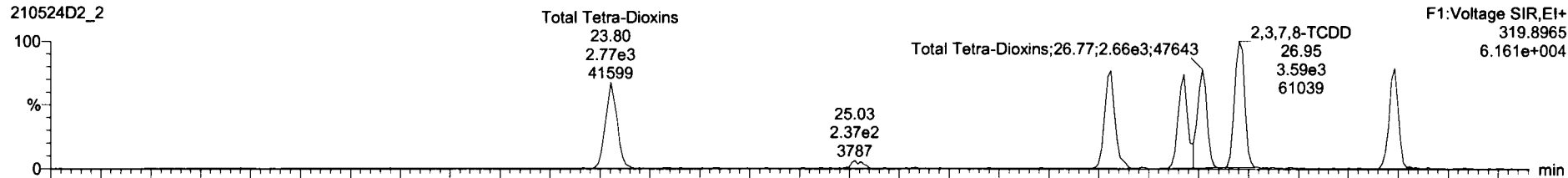
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Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

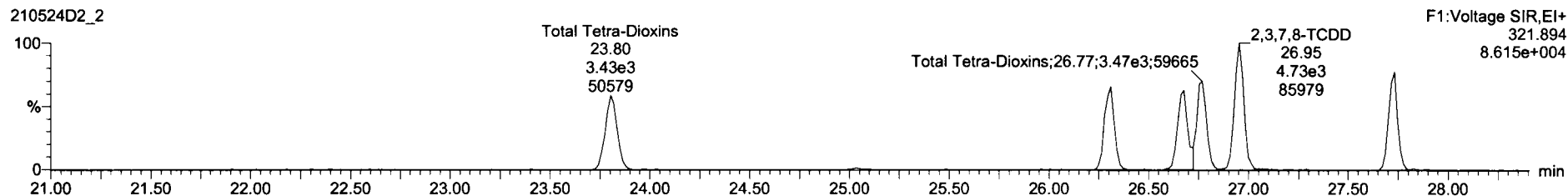
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2,3,7,8-TCDD

210524D2_2

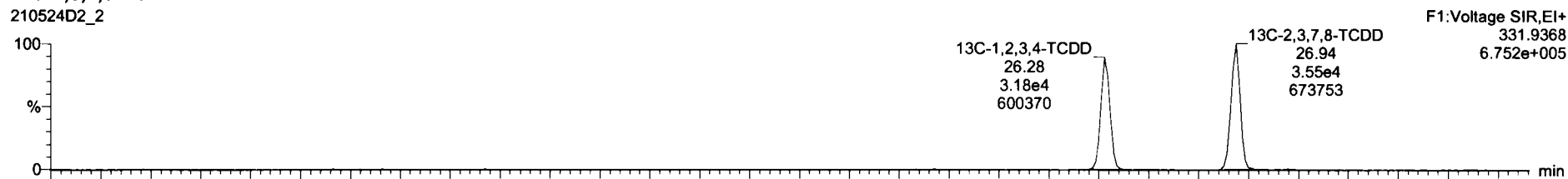


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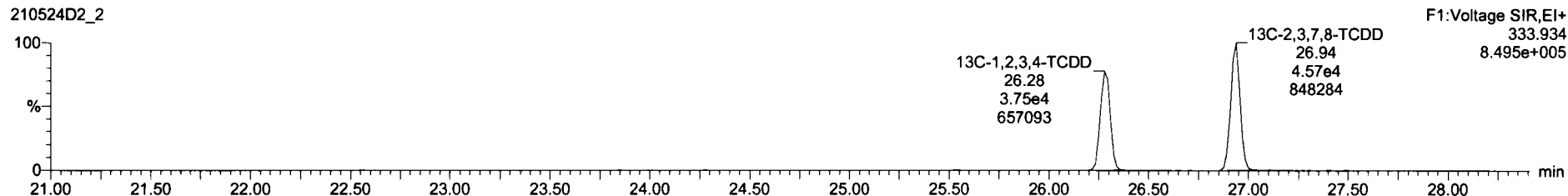


13C-2,3,7,8-TCDD

210524D2_2



210524D2_2



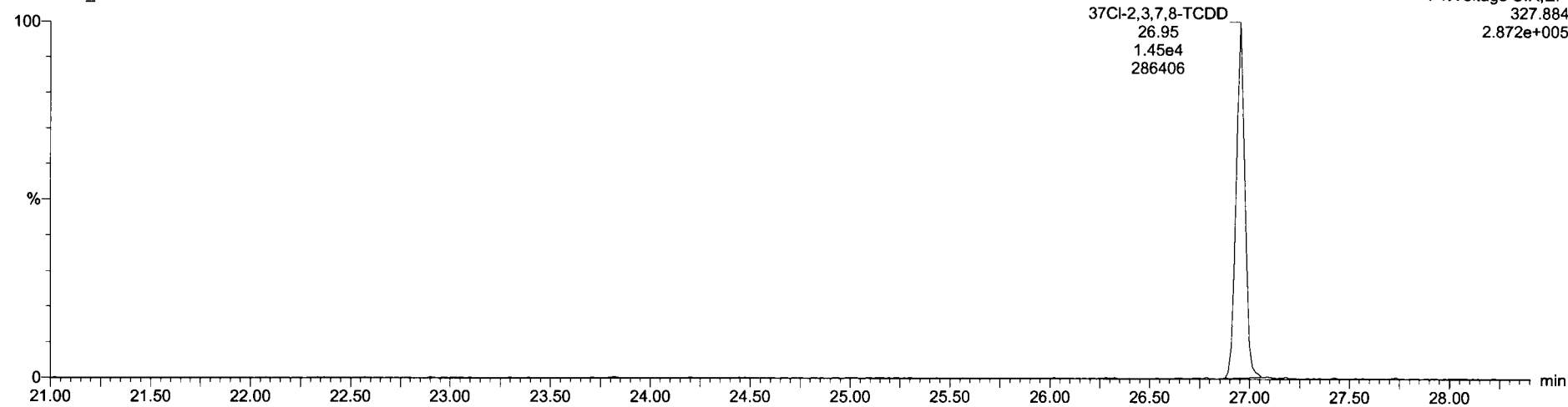
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Last Altered: Wednesday, May 26, 2021 12:07:34 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

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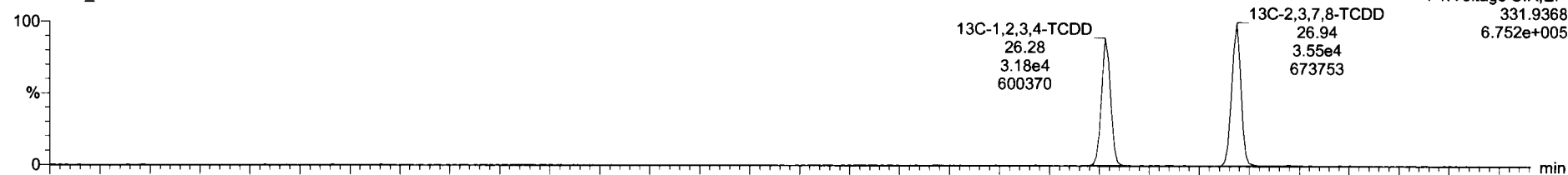
37Cl-2,3,7,8-TCDD

210524D2_2

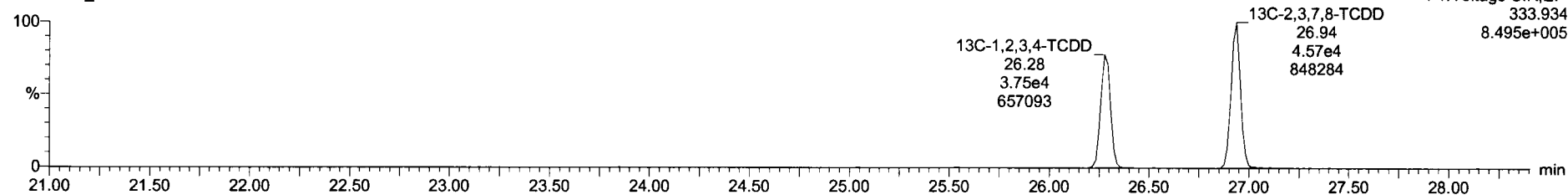


13C-1,2,3,4-TCDD

210524D2_2



210524D2_2



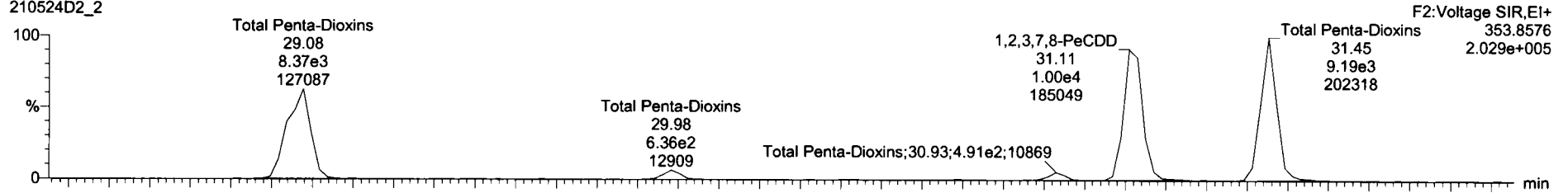
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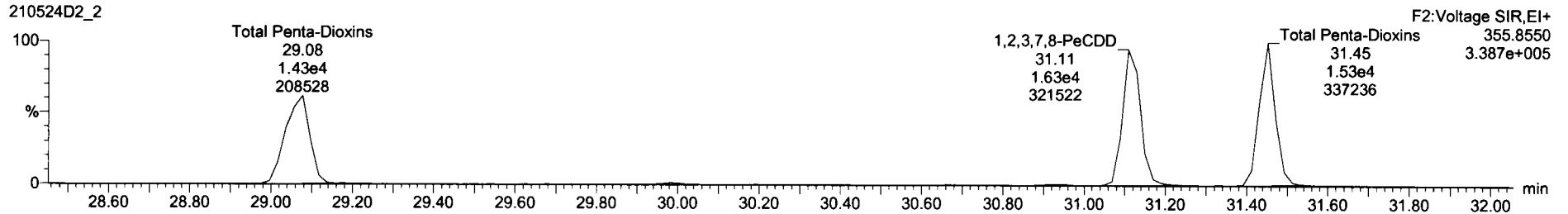
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1,2,3,7,8-PeCDD

210524D2_2

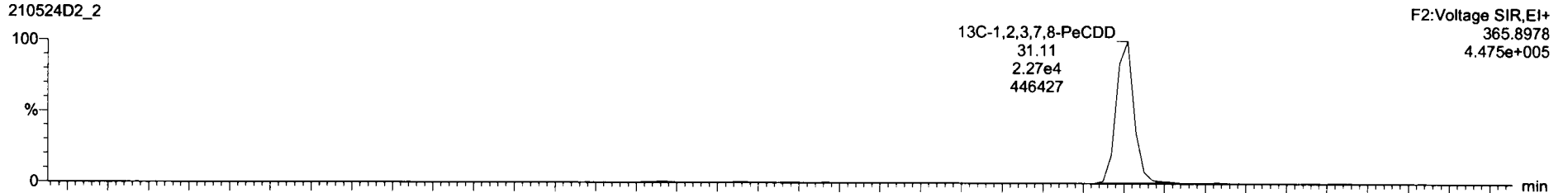


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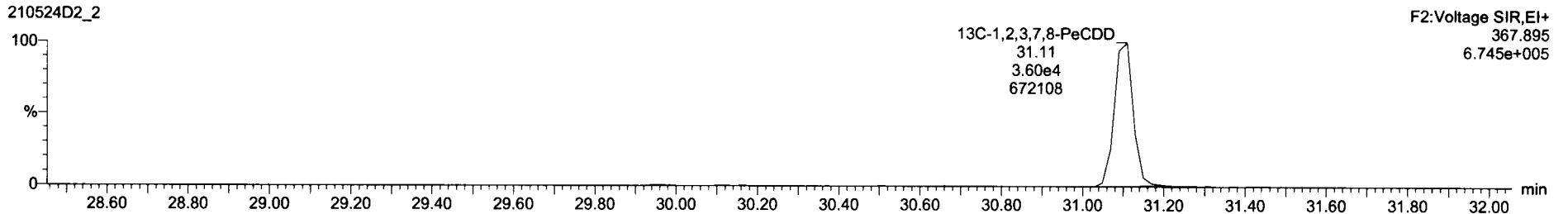


13C-1,2,3,7,8-PeCDD

210524D2_2



210524D2_2



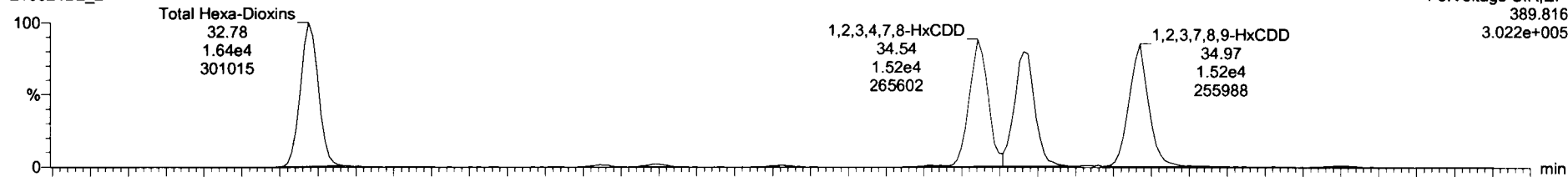
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Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

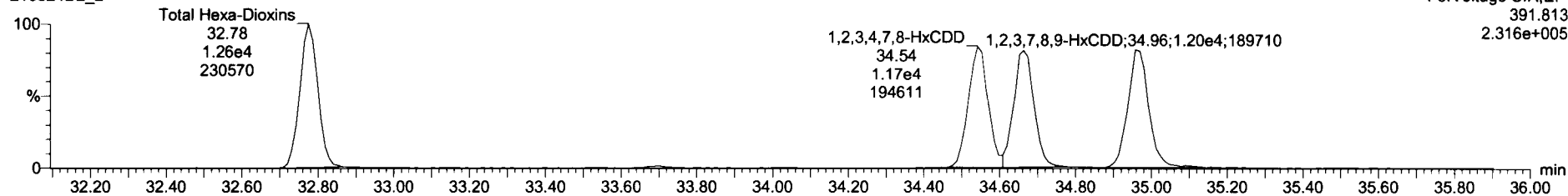
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1,2,3,4,7,8-HxCDD

210524D2_2

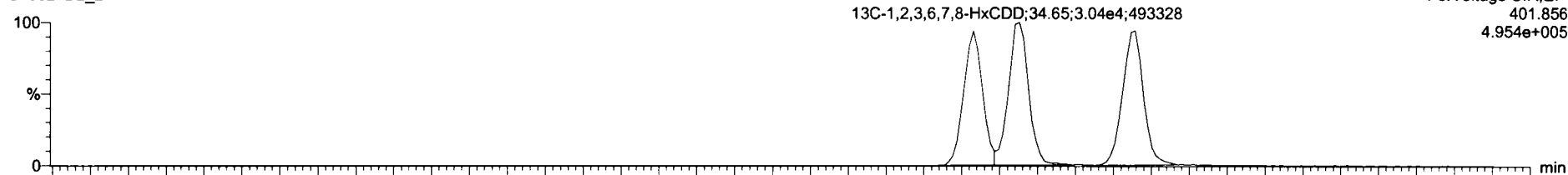


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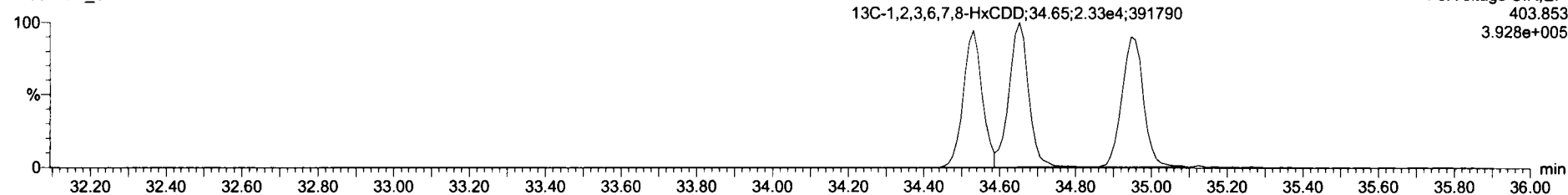


13C-1,2,3,4,7,8-HxCDD

210524D2_2



210524D2_2



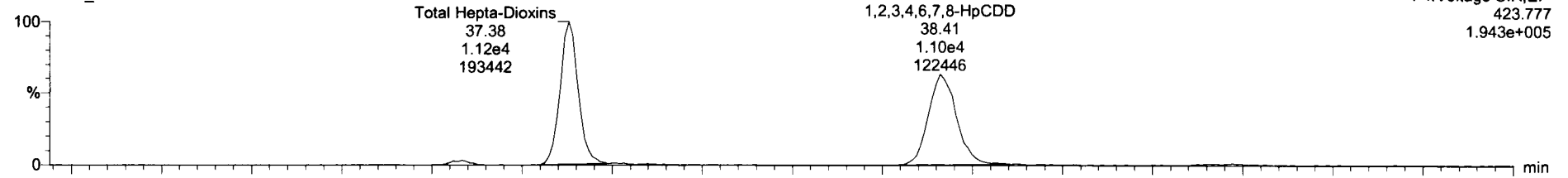
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Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

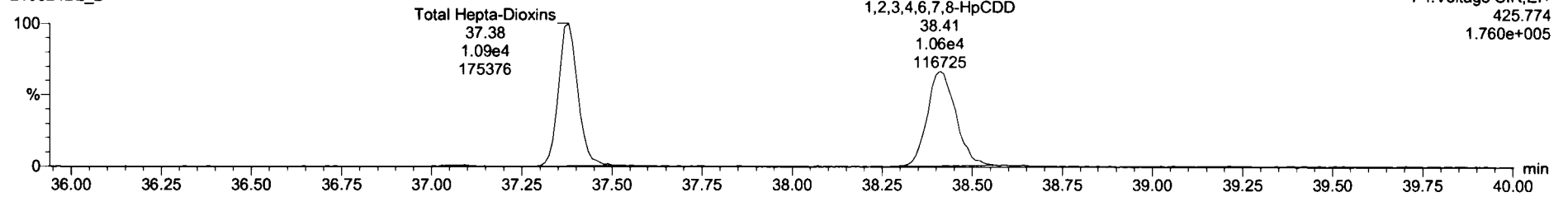
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1,2,3,4,6,7,8-HpCDD

210524D2_2

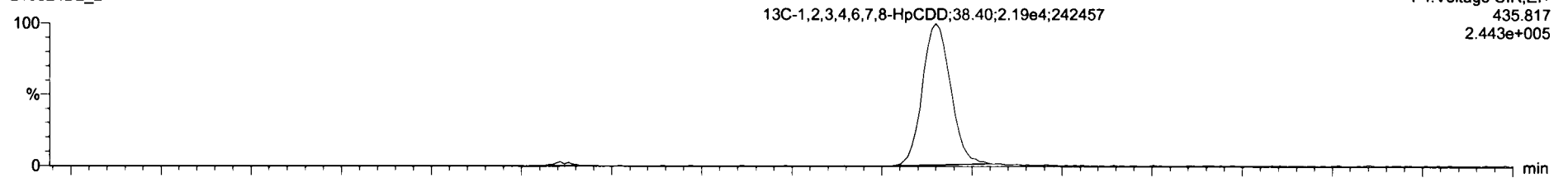


210524D2_2

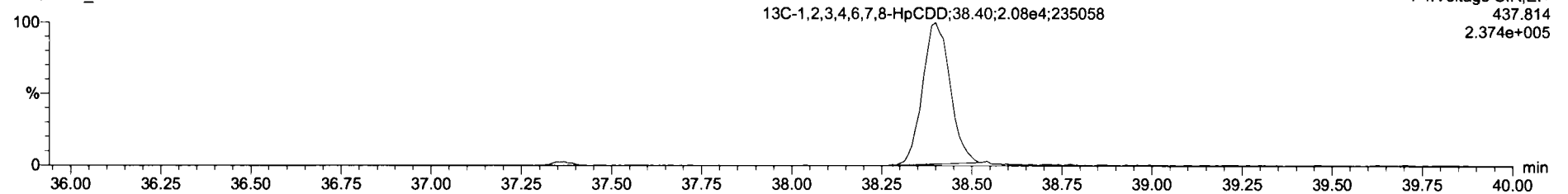


13C-1,2,3,4,6,7,8-HpCDD

210524D2_2



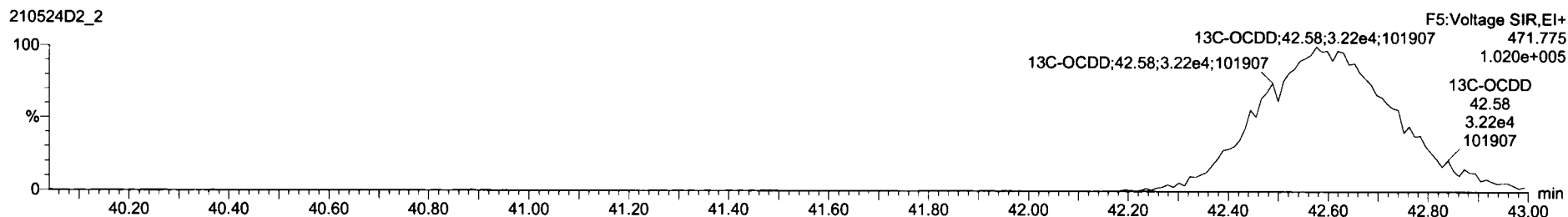
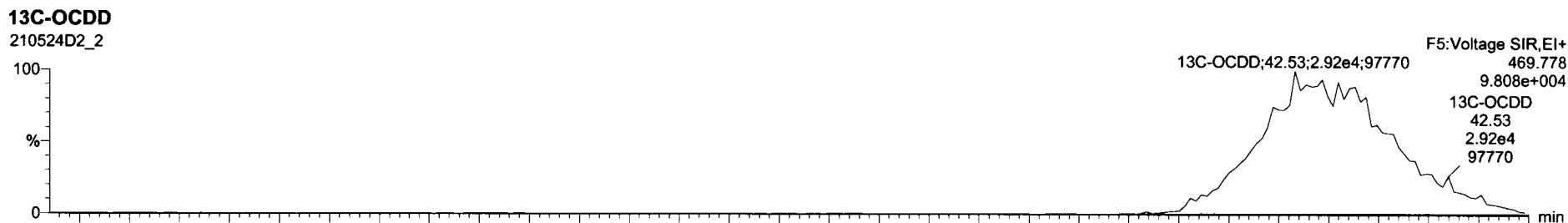
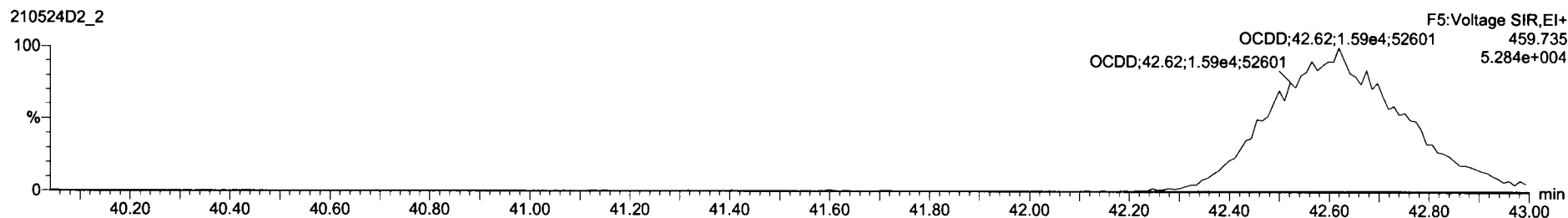
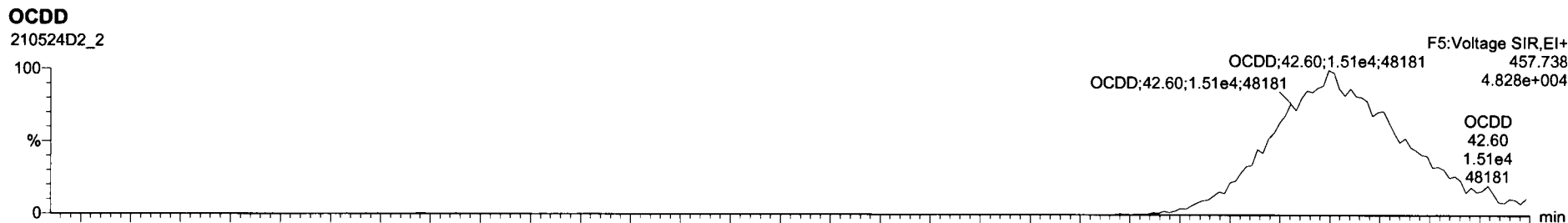
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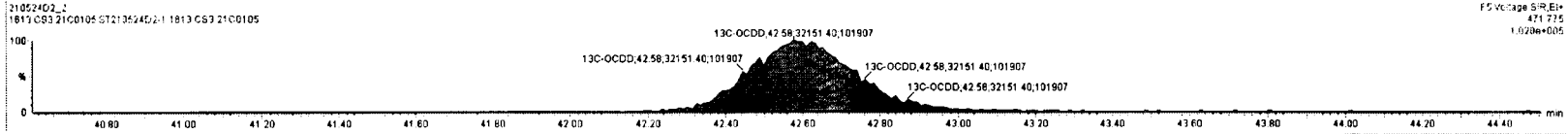
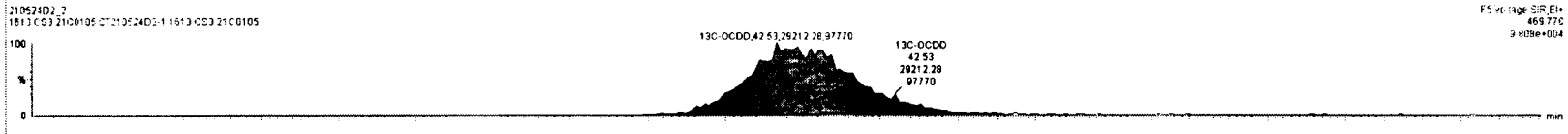
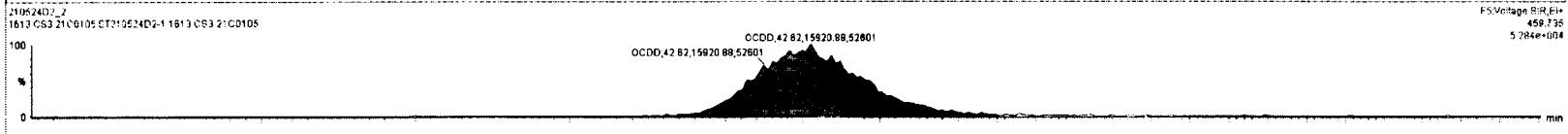
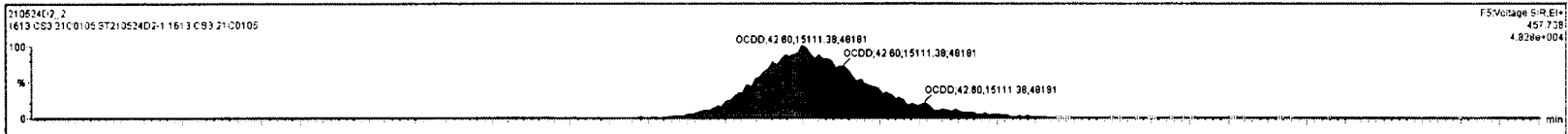
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Last Altered: Wednesday, May 26, 2021 12:07:34 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

Name: 210524D2_2, Date: 24-May-2021, Time: 19:56:42, ID: ST210524D2-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105



#	Name	Resp	IS Resp	Pres RA	RA	Qty	RF	Pres RT	RT	RT Flag	Pres PRT	PRT	Conc	%Rec	STD dev
1	1,2,3,7,8-TCDD	8.32e3	6.13e4	0.77	0.78	NO	1.0478	28.98	28.95	NO	1.001	1.001	9.77	97.7	NO
2	1,2,3,7,8-PeCDD	2.63e4	5.86e4	0.63	0.61	NO	0.8813	31.13	31.11	NO	1.001	1.000	51.0	102	NO
3	1,2,3,4,7,8-HxCDD	2.69e4	4.79e4	1.24	1.29	NO	1.1420	34.54	34.54	NO	1.000	1.000	49.1	98.2	NO
4	1,2,3,4,7,8-HxCDD	2.85e4	5.37e4	1.24	1.29	NO	1.0108	34.87	34.86	NO	1.000	1.000	48.8	97.8	NO
5	1,2,3,4,7,8-HxCDD	2.72e4	5.25e4	1.24	1.27	NO	1.0194	34.88	34.87	NO	1.001	1.000	50.9	102	NO
6	1,2,3,4,7,8-HxCDD	2.15e4	4.27e4	1.04	1.03	NO	1.0890	38.41	38.41	NO	1.000	1.000	47.5	95.1	NO
7	OCDD	3.19e4	6.14e4	0.88	0.88	NO	1.0002	42.88	42.89	NO	1.000	1.002	181	181	NO
8	2,3,7,8-TCDF	1.12e4	1.35e5	0.77	0.71	NO	0.8837	28.38	28.37	NO	1.001	1.001	9.58	95.9	NO
9	1,2,3,7,8-PeCDF	4.53e4	9.22e4	1.55	1.70	NO	0.9484	30.00	30.00	NO	1.001	1.001	51.8	104	NO
10	2,3,4,7,8-PeCDF	5.13e4	9.40e4	1.55	1.85	NO	1.0377	30.98	30.95	NO	1.001	1.001	52.5	105	NO
11	1,2,3,4,7,8-HxCDF	3.82e4	7.92e4	1.24	1.28	NO	1.0430	33.57	33.55	NO	1.001	1.000	47.8	95.2	NO
12	1,2,3,4,7,8-HxCDF	4.14e4	8.02e4	1.24	1.27	NO	1.0742	33.70	33.70	NO	1.000	1.000	48.0	96.1	NO
13	2,3,4,6,7,8-HxCDF	3.89e4	7.02e4	1.24	1.32	NO	1.1171	34.43	34.44	NO	1.000	1.001	49.5	99.0	NO
14	1,2,3,4,6,7,8-HxCDF	3.36e4	6.50e4	1.24	1.29	NO	1.0887	35.50	35.51	NO	1.000	1.000	47.1	94.2	NO



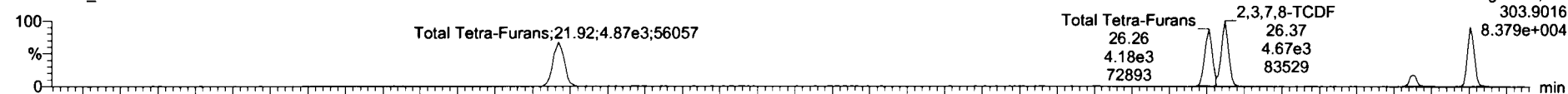
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Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

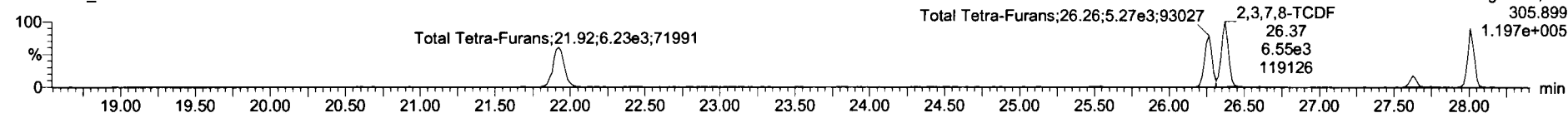
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2,3,7,8-TCDF

210524D2_2

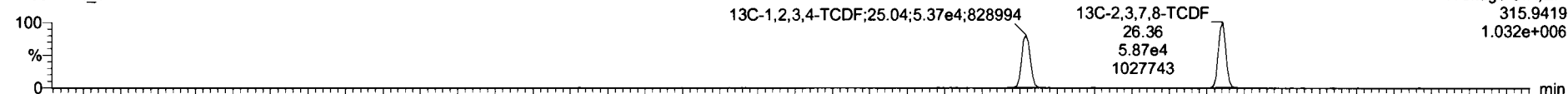


210524D2_2

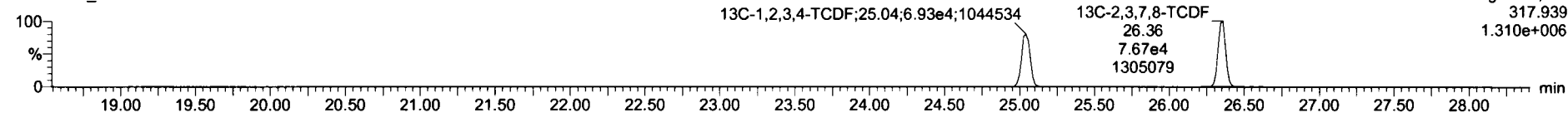


13C-2,3,7,8-TCDF

210524D2_2

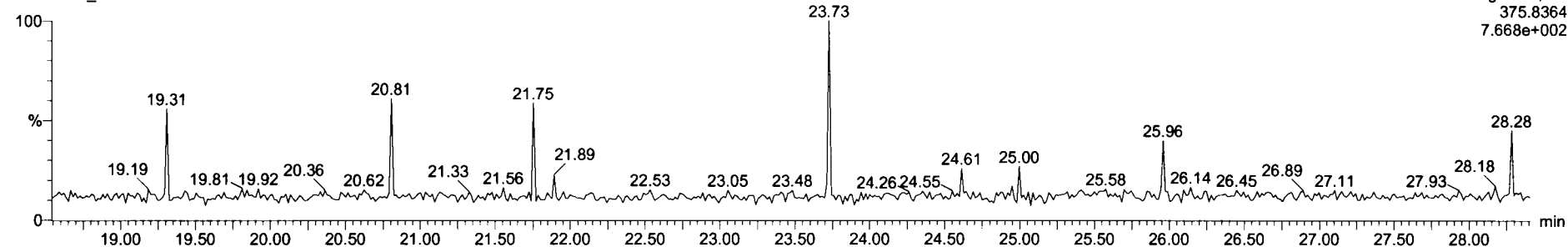


210524D2_2



DPE1

210524D2_2



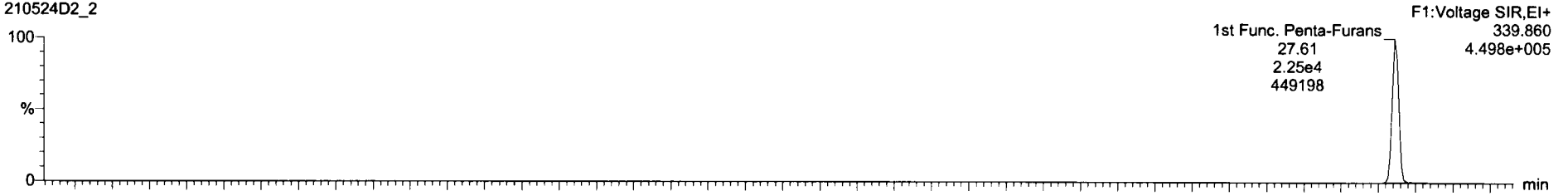
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Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

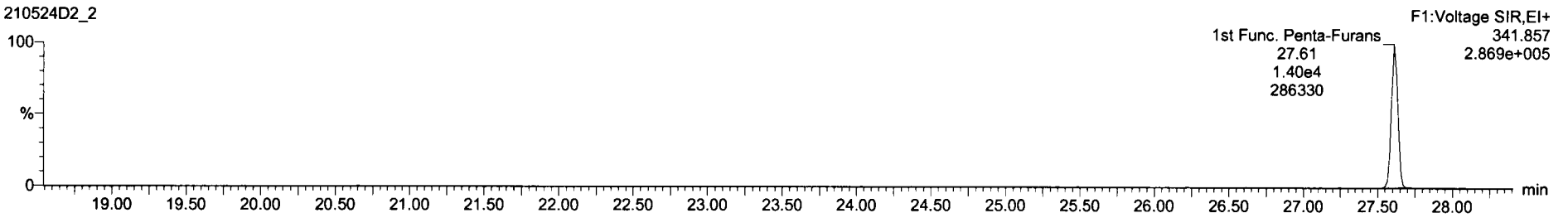
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1st Func. Penta-Furans

210524D2_2

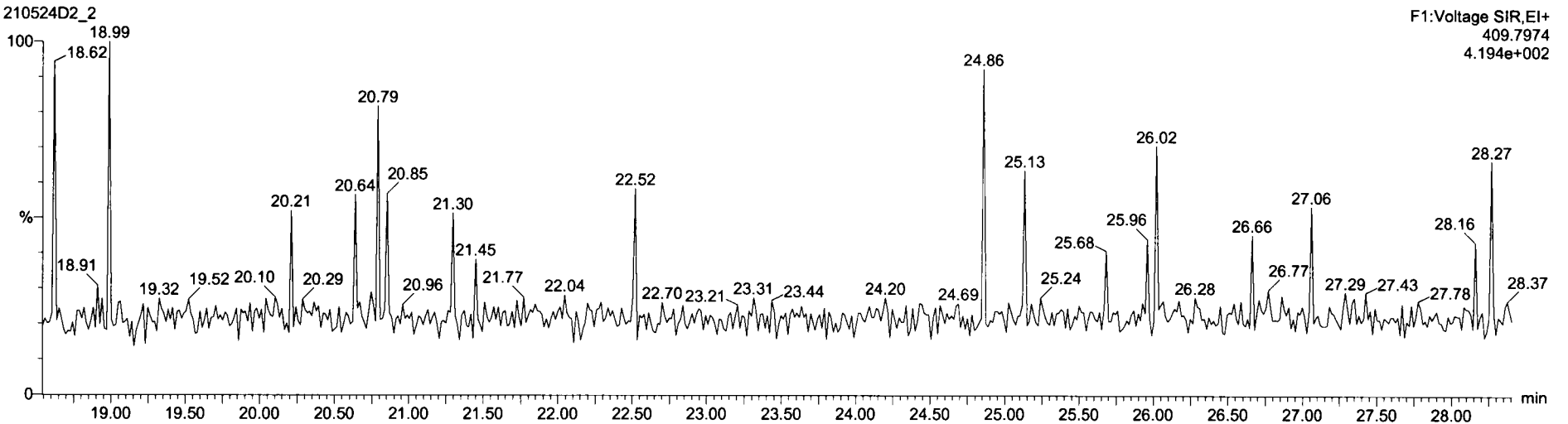


210524D2_2



DPE6

210524D2_2



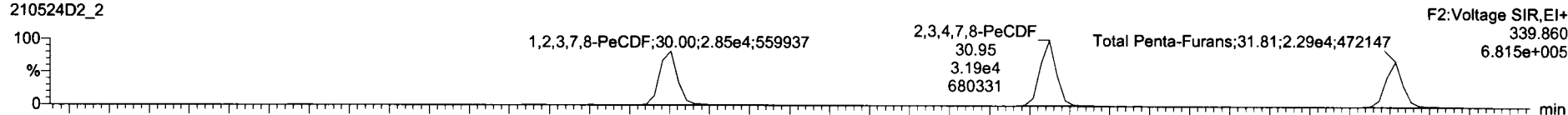
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Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

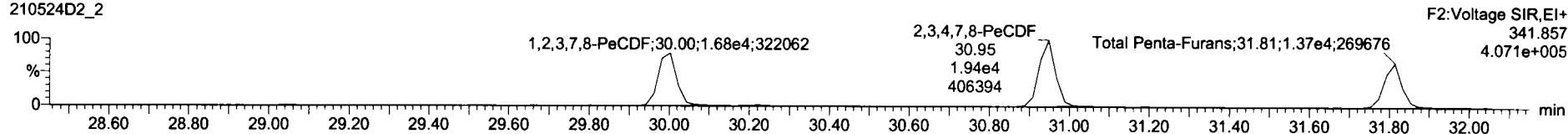
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1,2,3,7,8-PeCDF

210524D2_2

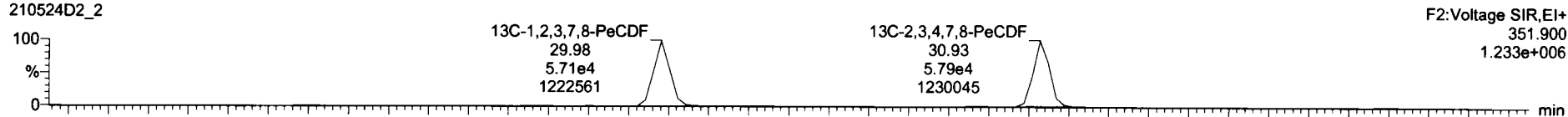


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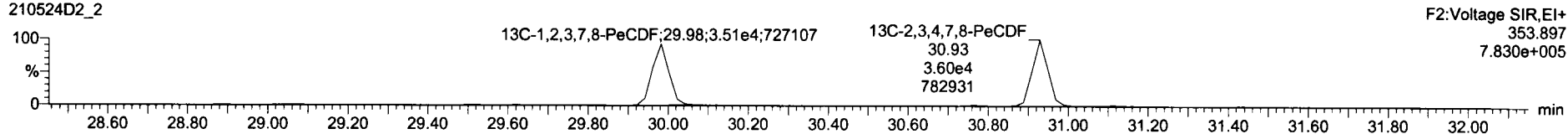


13C-1,2,3,7,8-PeCDF

210524D2_2

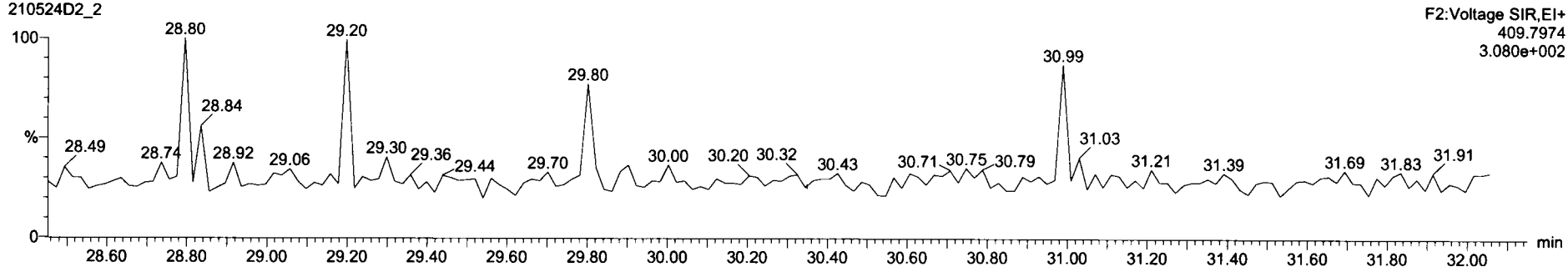


210524D2_2



DPE2

210524D2_2



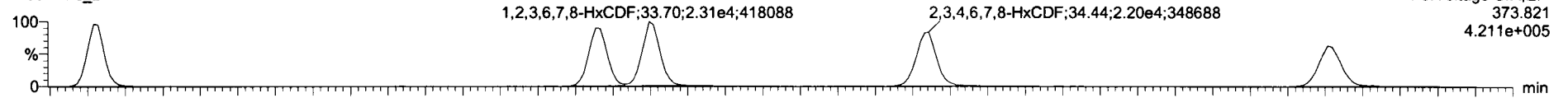
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Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

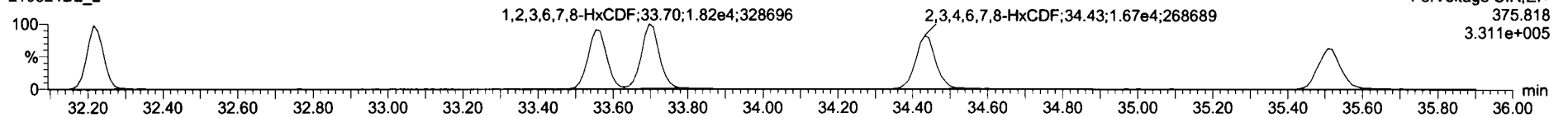
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1,2,3,4,7,8-HxCDF

210524D2_2

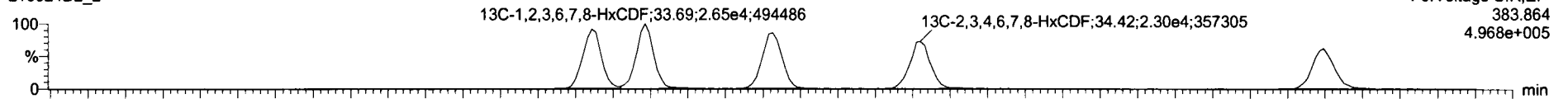


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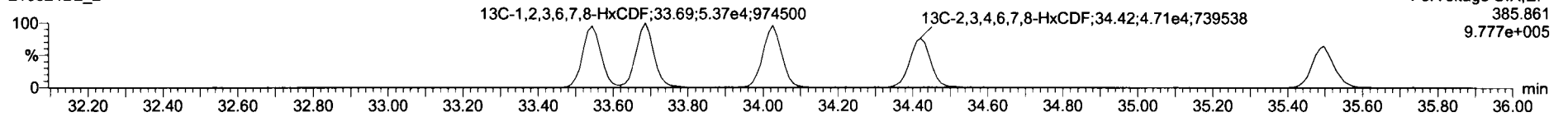


13C-1,2,3,4,7,8-HxCDF

210524D2_2

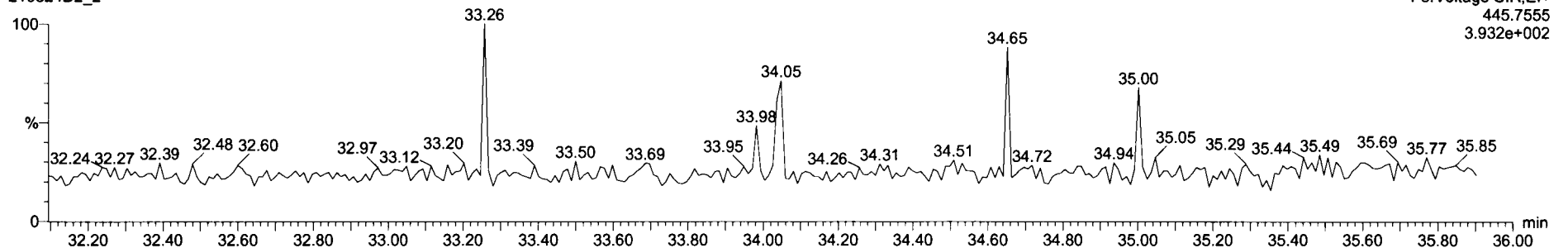


210524D2_2



DPE3

210524D2_2



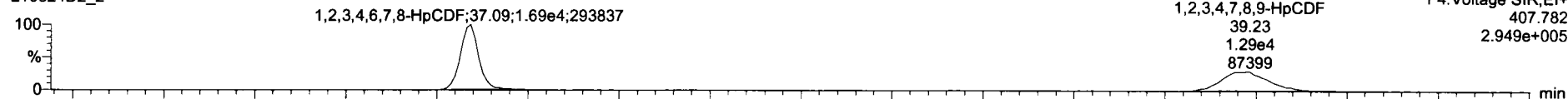
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Last Altered: Wednesday, May 26, 2021 12:07:34 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

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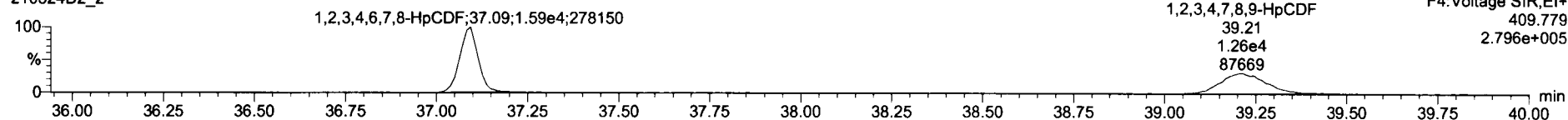
1,2,3,4,6,7,8-HpCDF

210524D2_2



F4:Voltage SIR,EI+
407.782
2.949e+005

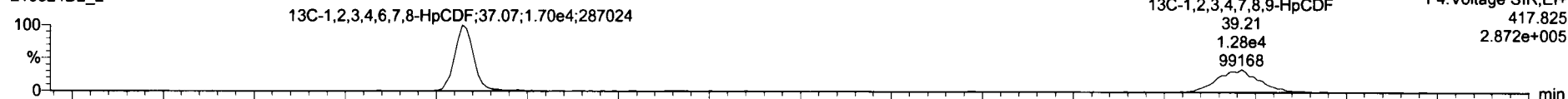
210524D2_2



F4:Voltage SIR,EI+
409.779
2.796e+005

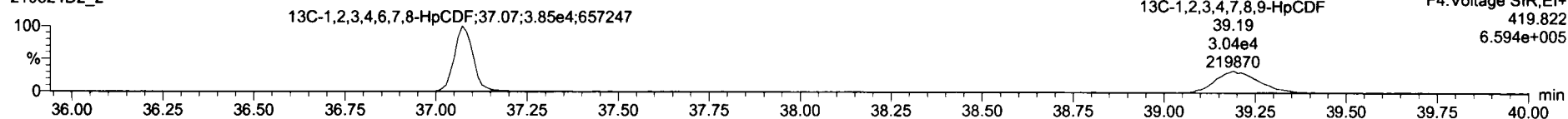
13C-1,2,3,4,6,7,8-HpCDF

210524D2_2



F4:Voltage SIR,EI+
417.825
2.872e+005

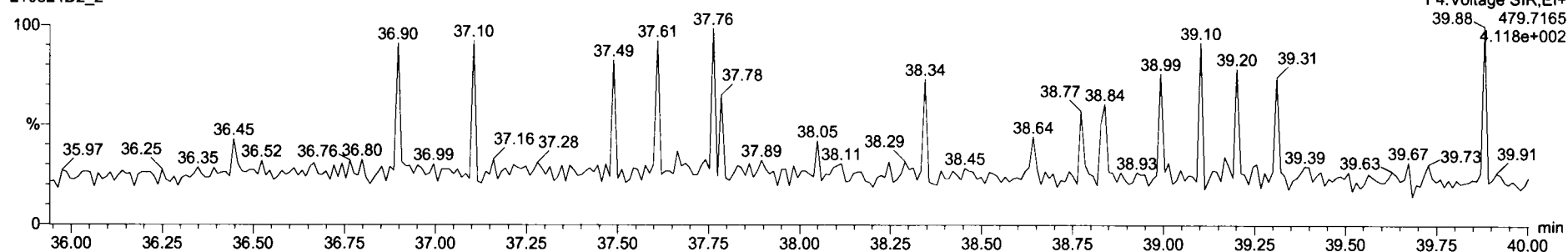
210524D2_2



F4:Voltage SIR,EI+
419.822
6.594e+005

DPE4

210524D2_2

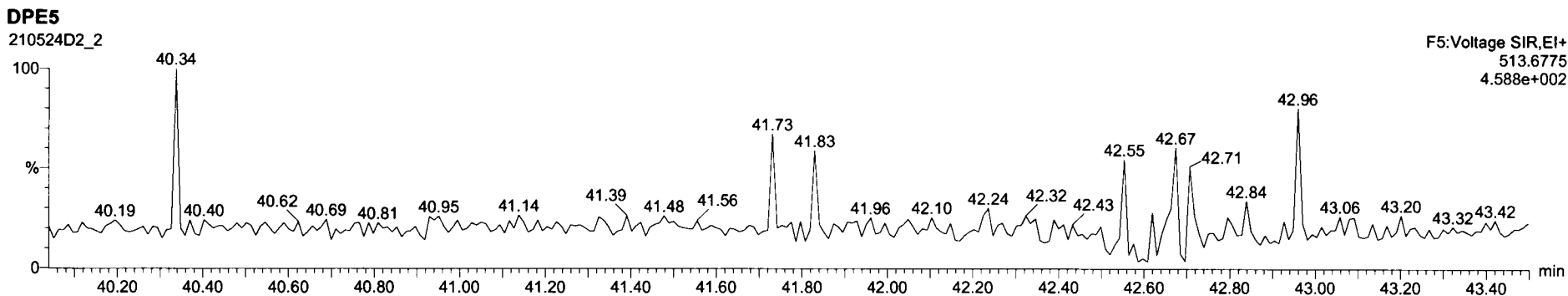
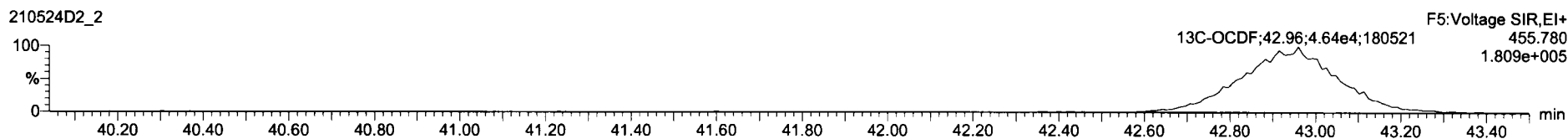
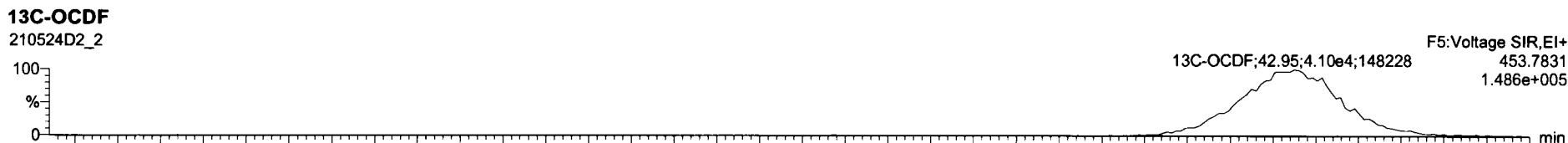
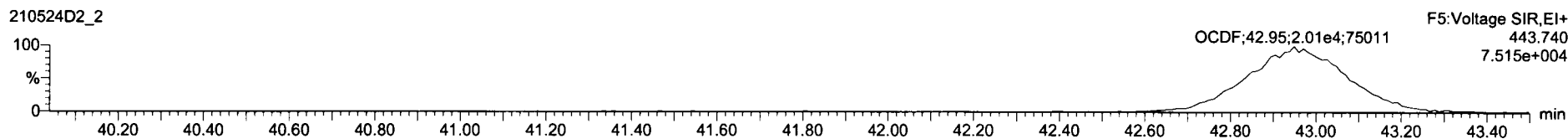
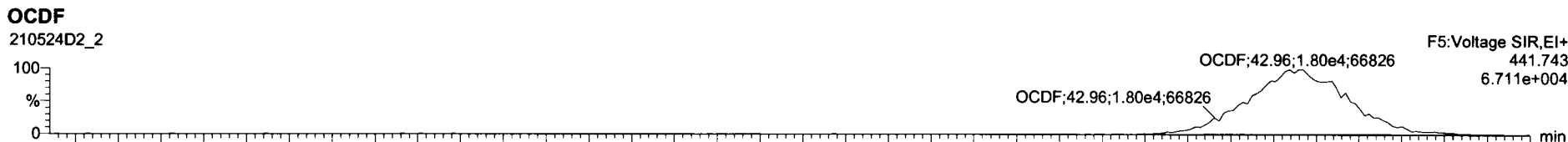


F4:Voltage SIR,EI+
479.7165
4.118e+002

Dataset: Untitled

Last Altered: Wednesday, May 26, 2021 12:07:34 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

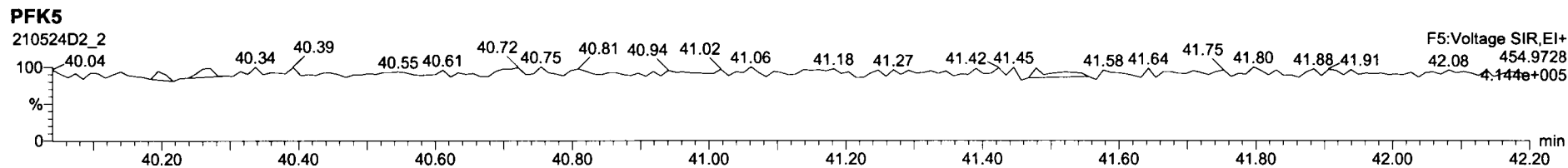
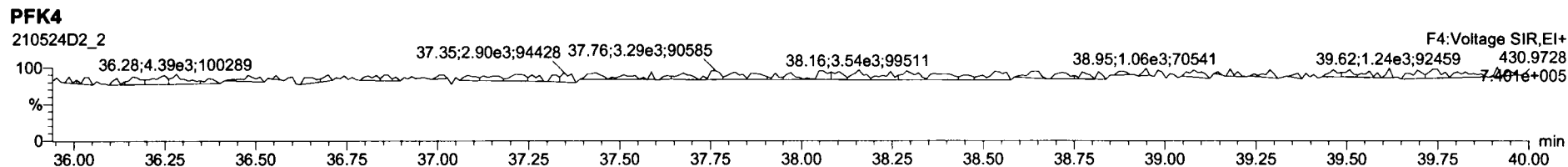
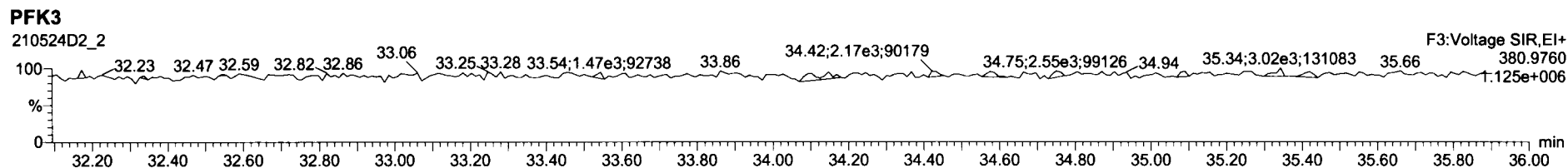
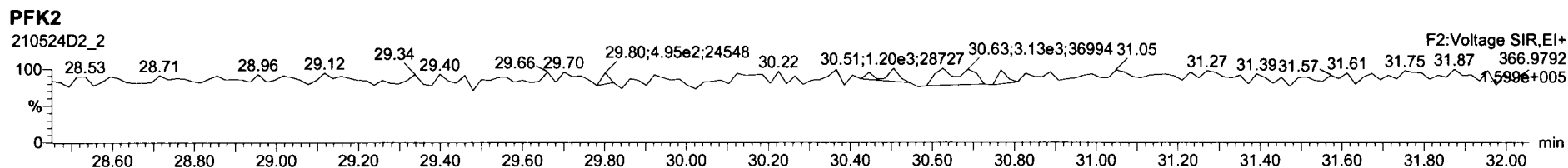
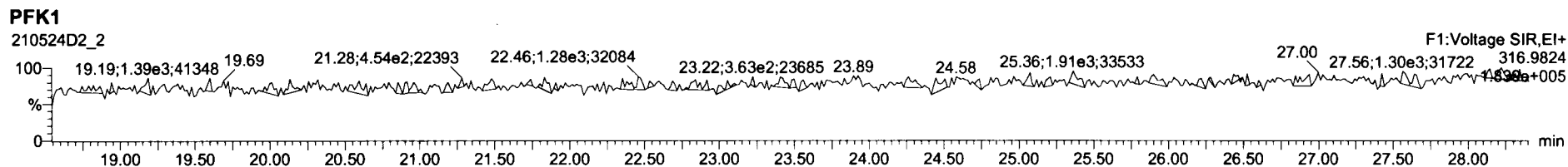
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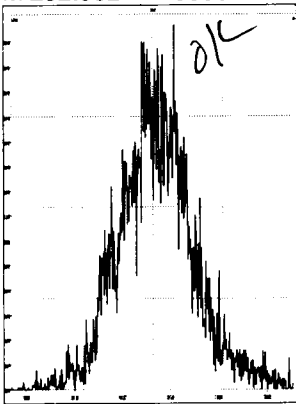
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Last Altered: Wednesday, May 26, 2021 12:07:34 Pacific Daylight Time
Printed: Wednesday, May 26, 2021 12:08:13 Pacific Daylight Time

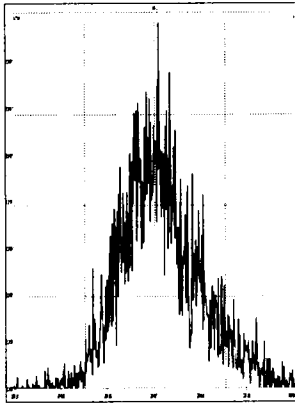
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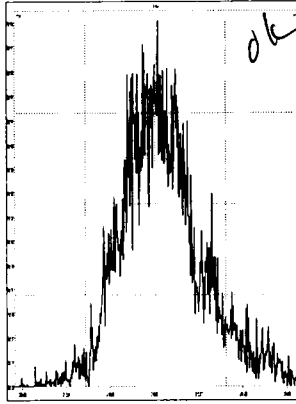
M 292.9824 R 9399



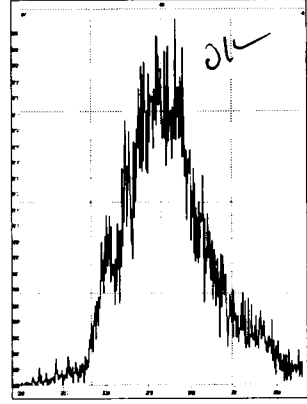
M 304.9824 R 10110



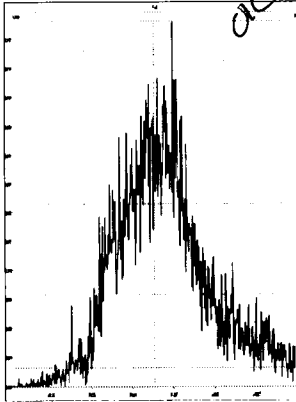
M 318.9792 R 8607



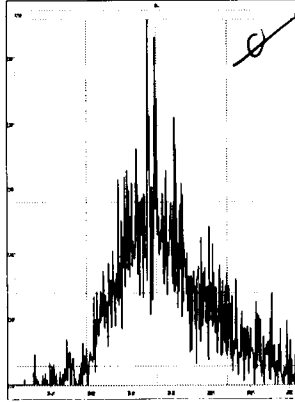
M 330.9792 R 7274



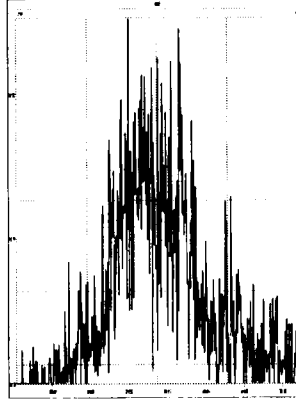
M 342.9792 R 7118



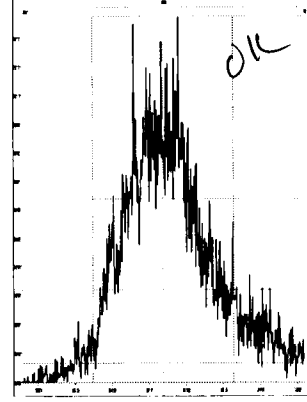
M 354.9792 R 10122



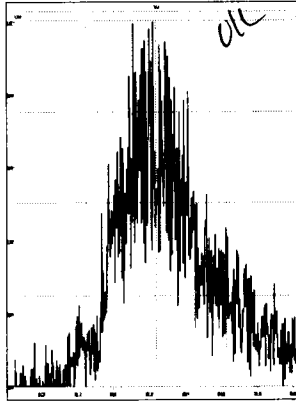
M 366.9792 R 13101



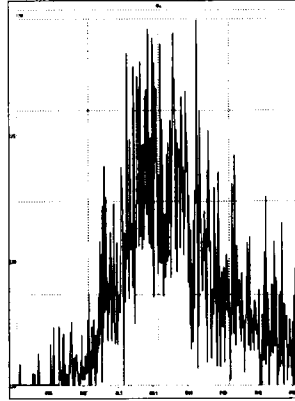
M 380.9760 R 7334



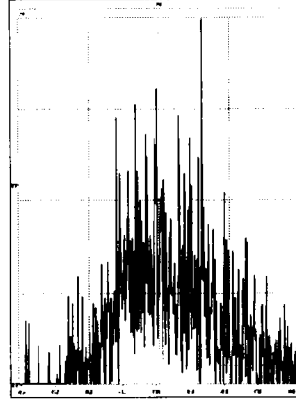
M 392.9760 R 8053



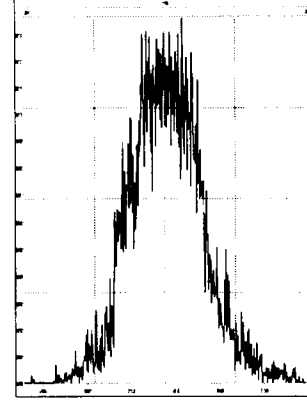
M 404.9760 R 10959



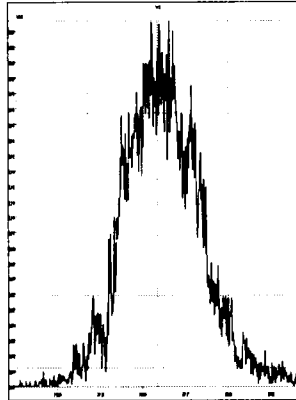
M 416.9760 R 23275



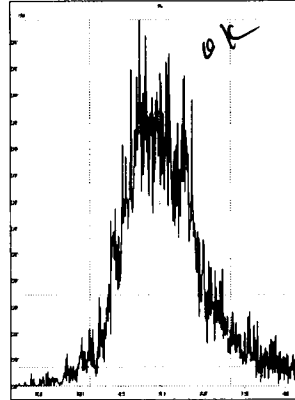
M 318.9792 R 10293



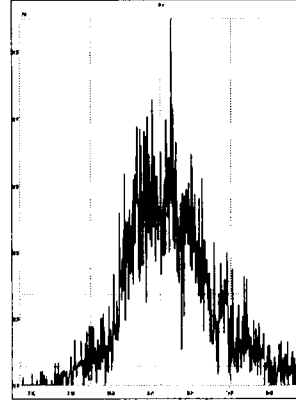
M 330.9792 R 10243



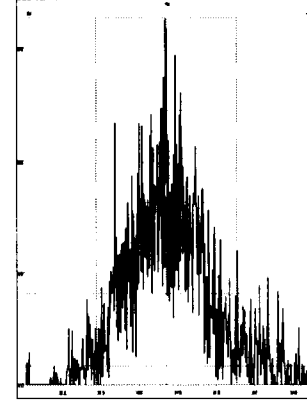
M 342.9792 R 8549



M 354.9792 R 11499

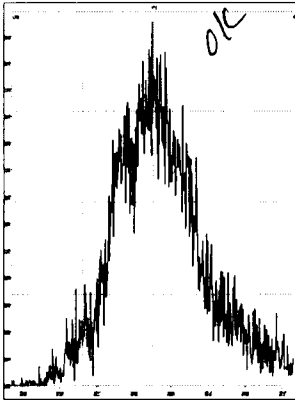


M 366.9792 R 18632

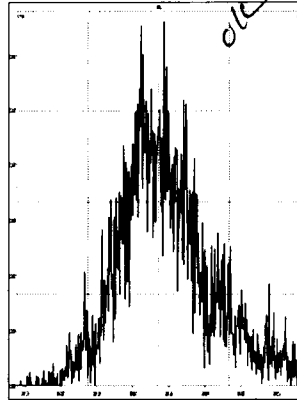


Printed: Tuesday, May 25, 2021 08:16:13 Pacific Daylight Time

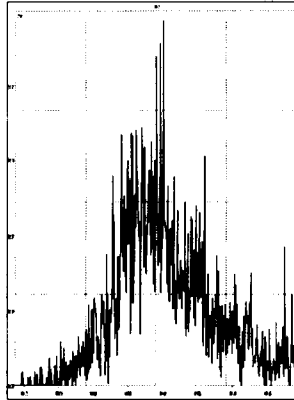
M 380.9760 R 8847



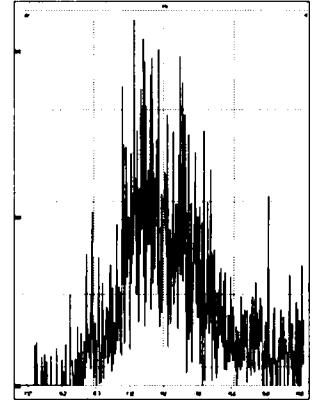
M 392.9760 R 8356



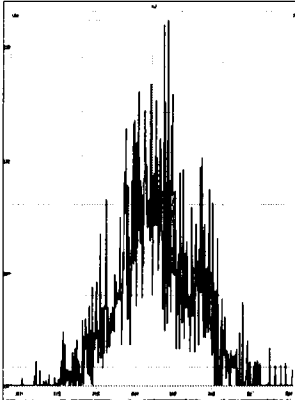
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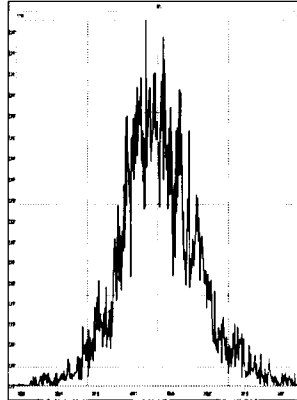
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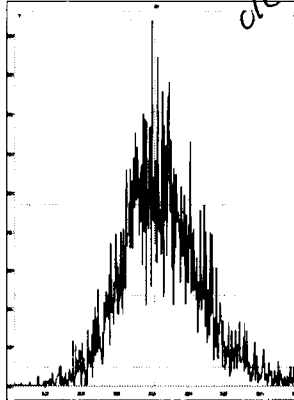
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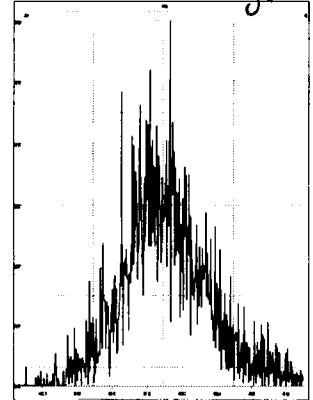
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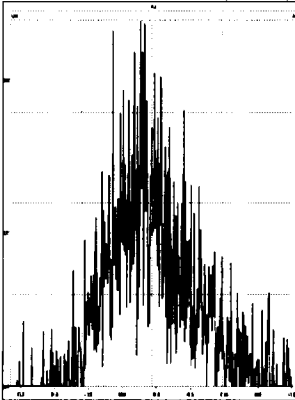
M 392.9760 R 9896



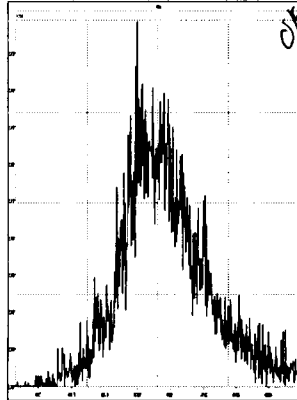
M 404.9760 R 9905



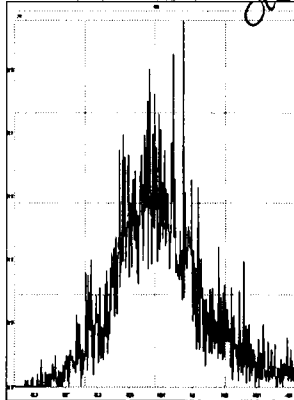
M 416.9760 R 16751



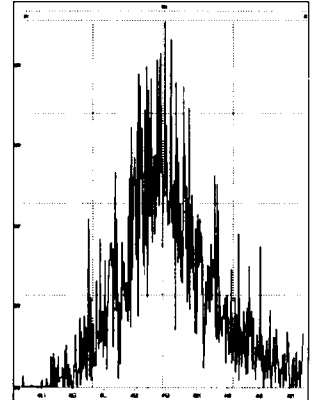
M 430.9728 R 8775



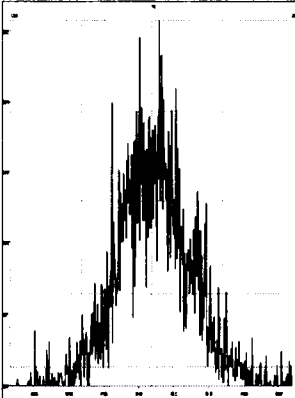
M 442.9728 R 9380



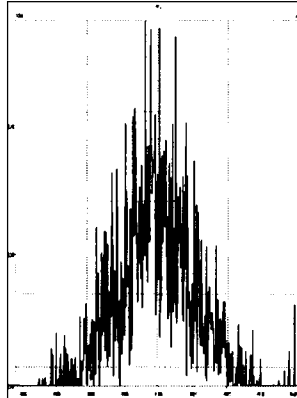
M 454.9728 R 10227



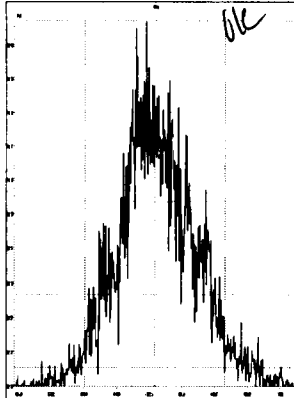
M 404.9760 R 10482



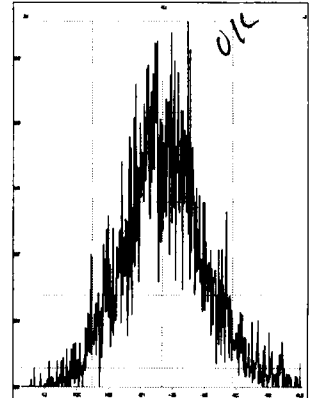
M 416.9760 R 18000



M 430.9728 R 9980

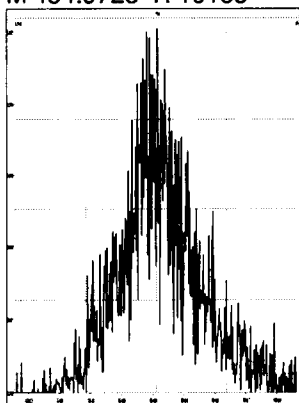


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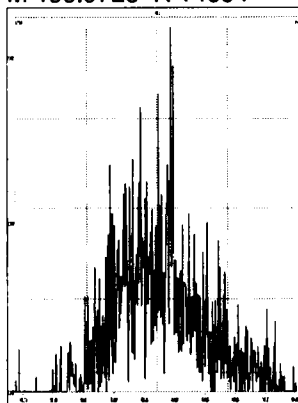


Printed: Tuesday, May 25, 2021 08:16:13 Pacific Daylight Time

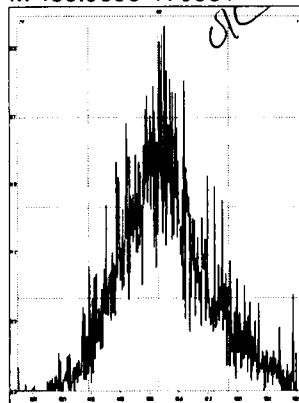
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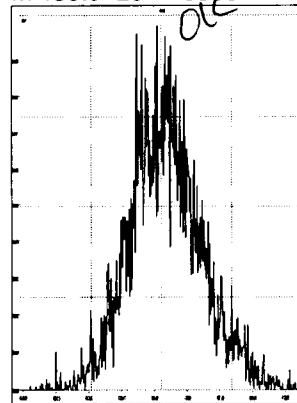
M 466.9728 R 14654



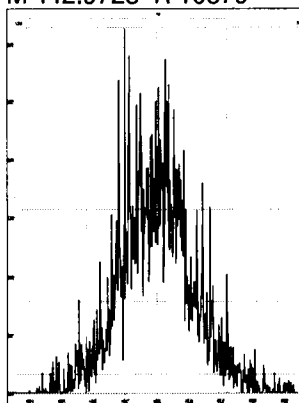
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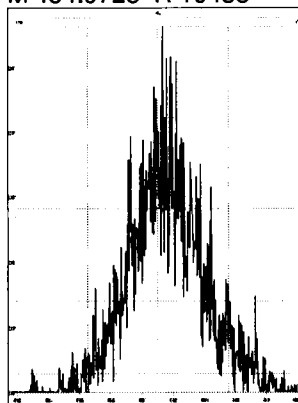
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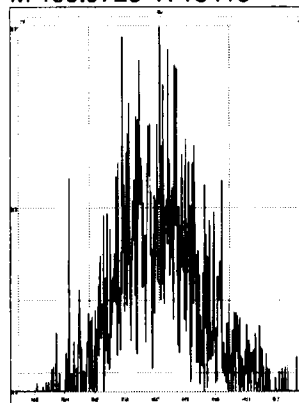
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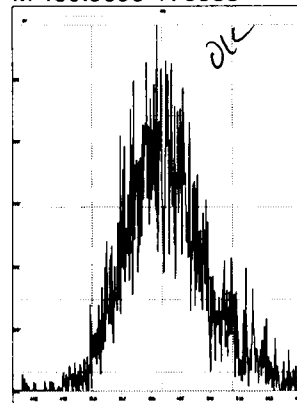
M 454.9728 R 10438



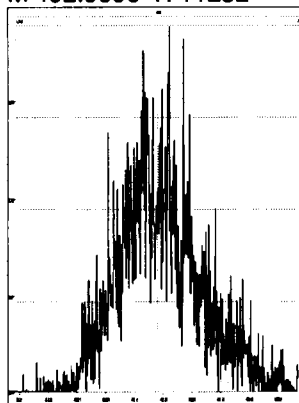
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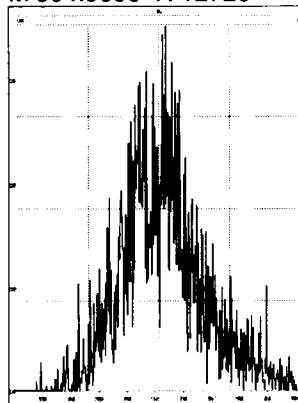
M 480.9696 R 9938



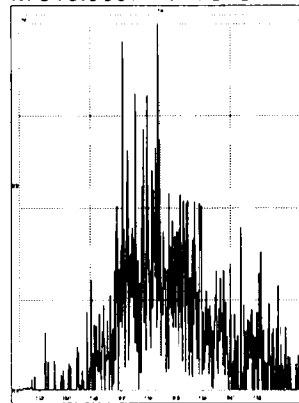
M 492.9696 R 11232



M 504.9696 R 12726



M 516.9697 R 17948



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST21060704-1

Reviewed By: JFO/08/21
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<input checked="" type="checkbox"/>	<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 checked="" type="checkbox"/>
- Bottle position verified?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Mass resolution ≥
 5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

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

Comments:
 Ⓐ Some masses under 10k

Dataset: U:\VG7.PRO\Results\210607D4\210607D4-1.qld

Last Altered: Monday, June 07, 2021 16:46:07 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 12:39:03 Pacific Daylight Time

HL 6/8/21
210608/21

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	3.94e3	4.21e4	0.75	NO	1.05	26.99	26.98	NO	1.001	1.001	8.9271	89.3	NO
2	2 1,2,3,7,8-PeCDD	1.19e4	2.95e4	0.61	NO	0.881	31.15	31.15	NO	1.001	1.001	45.689	91.4	NO
3	3 1,2,3,4,7,8-HxCDD	1.06e4	1.94e4	1.26	NO	1.14	34.57	34.59	NO	1.000	1.001	47.551	95.1	NO
4	4 1,2,3,6,7,8-HxCDD	1.05e4	2.23e4	1.26	NO	1.01	34.71	34.72	NO	1.000	1.001	46.458	92.9	NO
5	5 1,2,3,7,8,9-HxCDD	1.07e4	2.26e4	1.27	NO	1.02	35.04	35.03	NO	1.001	1.000	46.172	92.3	NO
6	6 1,2,3,4,6,7,8-HpCDD	7.86e3	1.69e4	1.04	NO	1.07	38.25	38.25	NO	1.000	1.000	43.717	87.4	NO
7	7 OCDD	1.16e4	2.45e4	0.90	NO	1.00	41.95	41.96	NO	1.000	1.000	94.011	94.0	NO
8	8 2,3,7,8-TCDF	4.55e3	6.19e4	0.79	NO	0.864	26.40	26.40	NO	1.001	1.001	8.5231	85.2	NO
9	9 1,2,3,7,8-PeCDF	1.93e4	4.19e4	1.63	NO	0.948	30.04	30.02	NO	1.001	1.000	48.723	97.4	NO
10	10 2,3,4,7,8-PeCDF	2.00e4	4.15e4	1.60	NO	1.04	31.00	30.99	NO	1.001	1.001	46.394	92.8	NO
11	11 1,2,3,4,7,8-HxCDF	1.36e4	2.92e4	1.29	NO	1.04	33.63	33.61	NO	1.001	1.000	44.445	88.9	NO
12	12 1,2,3,6,7,8-HxCDF	1.41e4	2.98e4	1.22	NO	1.07	33.75	33.76	NO	1.000	1.001	43.951	87.9	NO
13	13 2,3,4,6,7,8-HxCDF	1.31e4	2.67e4	1.20	NO	1.12	34.46	34.47	NO	1.000	1.000	44.022	88.0	NO
14	14 1,2,3,7,8,9-HxCDF	1.14e4	2.36e4	1.25	NO	1.10	35.57	35.60	NO	1.000	1.001	43.968	87.9	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.03e4	1.89e4	0.96	NO	1.16	37.14	37.13	NO	1.001	1.001	46.981	94.0	NO
16	16 1,2,3,4,7,8,9-HpCDF	8.35e3	1.58e4	1.03	NO	1.19	38.92	38.94	NO	1.000	1.001	44.468	88.9	NO
17	17 OCDF	1.30e4	3.25e4	0.89	NO	0.909	42.29	42.26	NO	1.000	0.999	87.656	87.7	NO
18	18 13C-2,3,7,8-TCDD	4.21e4	3.72e4	0.75	NO	1.15	26.95	26.97	NO	1.024	1.025	98.787	98.8	NO
19	19 13C-1,2,3,7,8-PeCDD	2.95e4	3.72e4	0.59	NO	0.887	31.15	31.13	NO	1.184	1.183	89.499	89.5	NO
20	20 13C-1,2,3,4,7,8-HxCDD	1.94e4	2.95e4	1.23	NO	0.645	34.58	34.56	NO	1.014	1.014	102.01	102	NO
21	21 13C-1,2,3,6,7,8-HxCDD	2.23e4	2.95e4	1.23	NO	0.717	34.73	34.69	NO	1.019	1.018	105.61	106	NO
22	22 13C-1,2,3,7,8,9-HxCDD	2.26e4	2.95e4	1.28	NO	0.714	35.01	35.01	NO	1.027	1.027	107.45	107	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.69e4	2.95e4	1.07	NO	0.583	38.40	38.24	NO	1.127	1.122	98.090	98.1	NO
24	24 13C-OCDD	2.45e4	2.95e4	0.88	NO	0.451	41.95	41.95	NO	1.230	1.230	184.35	92.2	NO
25	25 13C-2,3,7,8-TCDF	6.19e4	5.71e4	0.77	NO	1.09	26.37	26.37	NO	1.002	1.002	99.317	99.3	NO
26	26 13C-1,2,3,7,8-PeCDF	4.19e4	5.71e4	1.62	NO	0.805	30.01	30.02	NO	1.141	1.141	91.097	91.1	NO
27	27 13C-2,3,4,7,8-PeCDF	4.15e4	5.71e4	1.63	NO	0.792	30.97	30.97	NO	1.177	1.177	91.862	91.9	NO
28	28 13C-1,2,3,4,7,8-HxCDF	2.92e4	2.95e4	0.49	NO	0.997	33.59	33.60	NO	0.985	0.985	99.386	99.4	NO
29	29 13C-1,2,3,6,7,8-HxCDF	2.98e4	2.95e4	0.50	NO	1.03	33.76	33.74	NO	0.990	0.990	98.133	98.1	NO
30	30 13C-2,3,4,6,7,8-HxCDF	2.67e4	2.95e4	0.52	NO	0.940	34.47	34.45	NO	1.011	1.011	96.330	96.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	2.36e4	2.95e4	0.52	NO	0.852	35.58	35.57	NO	1.044	1.043	93.971	94.0	NO

Dataset: U:\VG7.PRO\Results\210607D4\210607D4-1.qld

Last Altered: Monday, June 07, 2021 16:46:07 Pacific Daylight Time
 Printed: Tuesday, June 08, 2021 12:39:03 Pacific Daylight Time

Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	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	1.89e4	2.95e4	0.41	NO	0.727	37.13	37.10	NO	1.089	1.088	88.087	88.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.58e4	2.95e4	0.46	NO	0.608	39.10	38.92	NO	1.147	1.141	88.177	88.2	NO
34	34 13C-OCDF	3.25e4	2.95e4	0.87	NO	0.631	42.31	42.29	NO	1.241	1.240	174.86	87.4	NO
35	35 37Cl-2,3,7,8-TCDD	7.39e3	3.72e4			2.22	26.96	26.98	NO	1.025	1.026	8.9523	89.5	NO
36	36 13C-1,2,3,4-TCDD	3.72e4	3.72e4	0.72	NO	1.00	26.28	26.31	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	5.71e4	5.71e4	0.77	NO	1.00	25.04	25.07	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	2.95e4	2.95e4	0.50	NO	1.00	34.06	34.09	NO	1.000	1.000	100.00	100	NO

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, June 08, 2021 11:37:30 Pacific Daylight Time

Printed: Tuesday, June 08, 2021 11:38:01 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

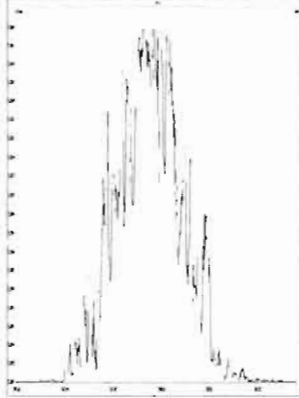
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	210607D4_1	ST210607D4-1 1613 CS3 21C0105	07-Jun-21	16:00:16
2	210607D4_2	SOLVENT BLANK	07-Jun-21	16:45:35
3	210607D4_3	2105020-04 USMPDI-017SC-A-13-14-210429 ...	07-Jun-21	17:32:08
4	210607D4_4	2105046-01 USMPDI-030SC-A-01-02-210503 ...	07-Jun-21	18:18:42

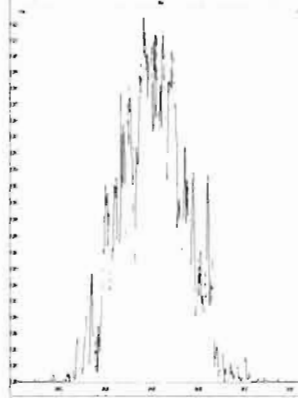
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, June 07, 2021 15:56:32 Pacific Daylight Time

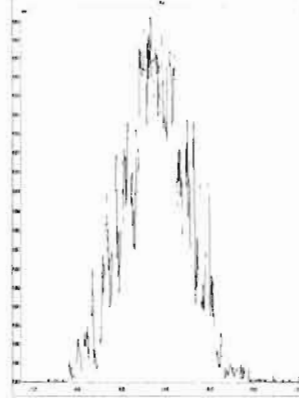
M 292.9824 R 11843



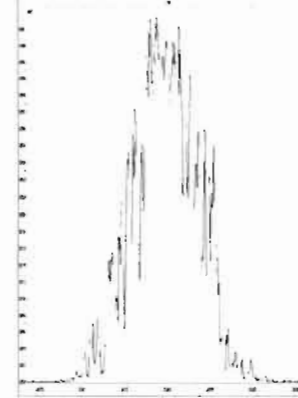
M 304.9824 R 11791



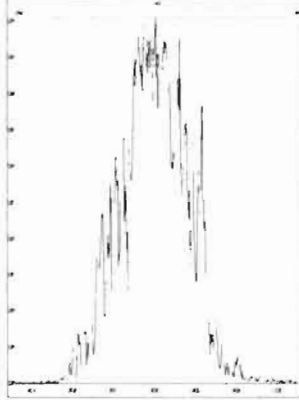
M 318.9792 R 11685



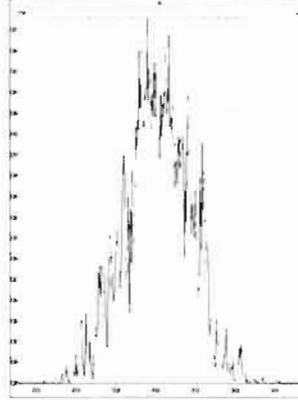
M 330.9792 R 11569



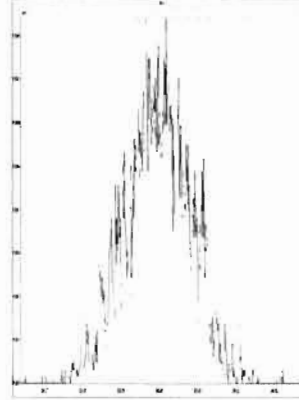
M 342.9792 R 10963



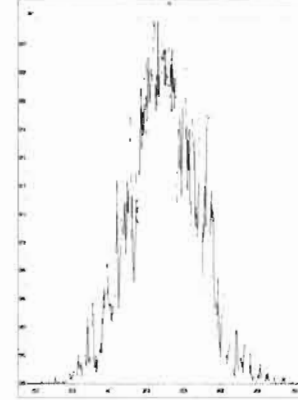
M 354.9792 R 10918



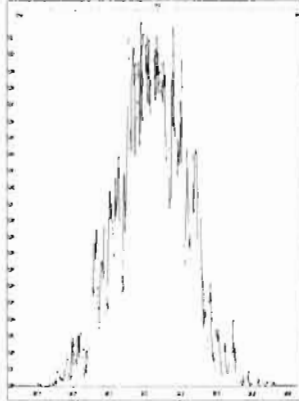
M 366.9792 R 10821



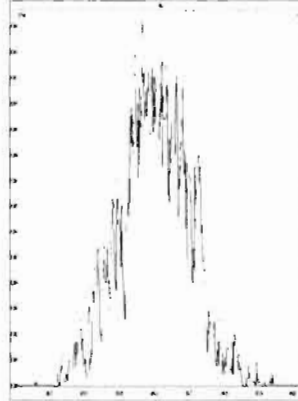
M 380.9760 R 10506



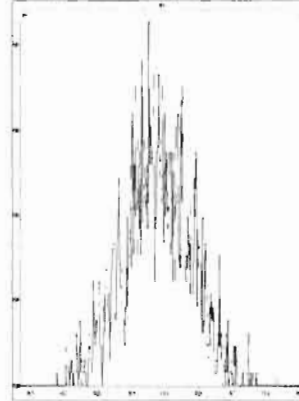
M 392.9760 R 10246



M 404.9760 R 10547



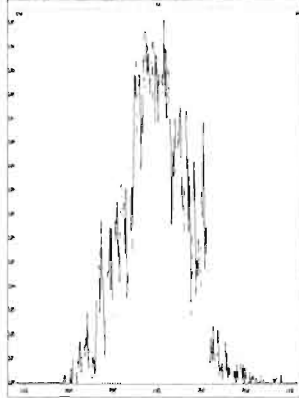
M 416.9760 R 12438



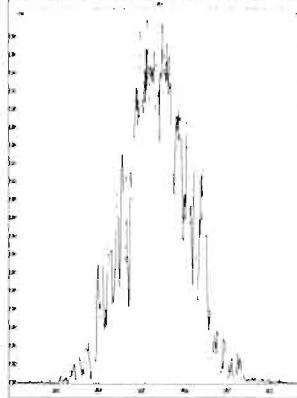
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, June 07, 2021 15:57:08 Pacific Daylight Time

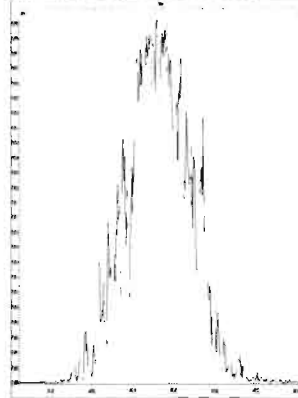
M 318.9792 R 11419



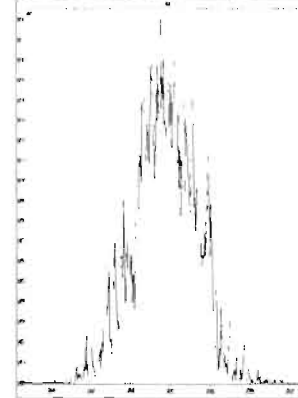
M 330.9792 R 11112



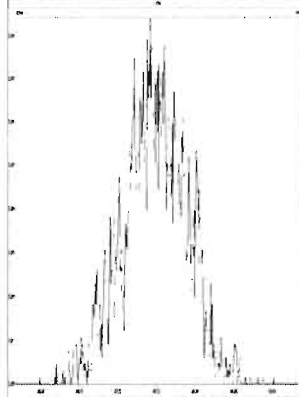
M 342.9792 R 10964



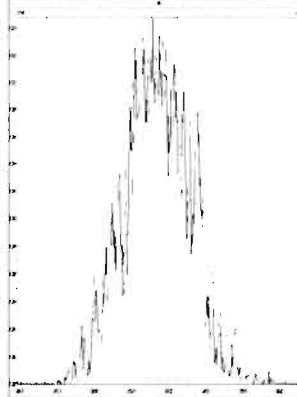
M 354.9792 R 10919



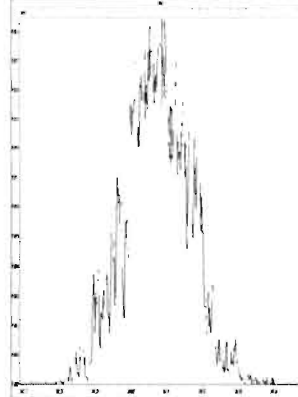
M 366.9792 R 11156



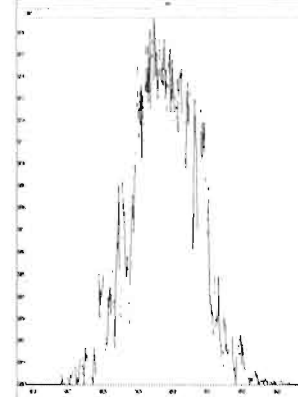
M 380.9760 R 10821



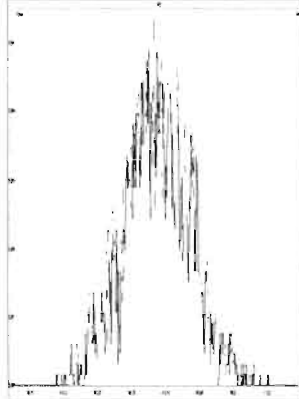
M 392.9760 R 10417



M 404.9760 R 10287



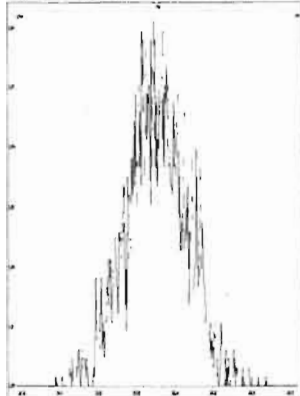
M 416.9760 R 10636



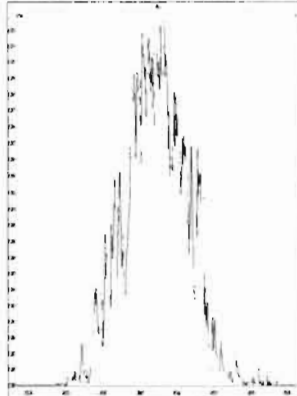
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, June 07, 2021 15:57:44 Pacific Daylight Time

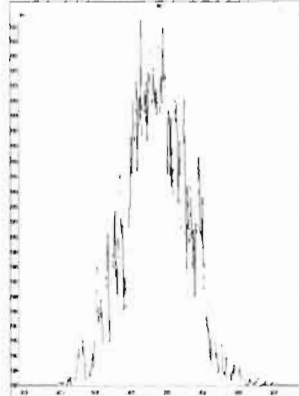
M 366.9792 R 11211



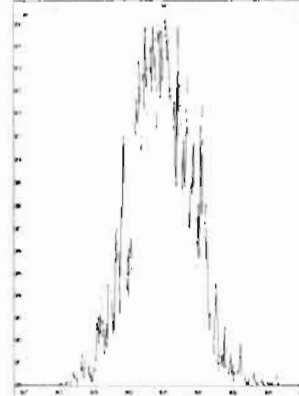
M 380.9760 R 11791



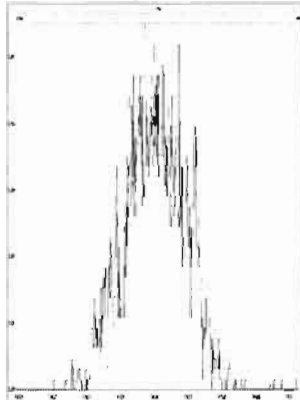
M 392.9760 R 11014



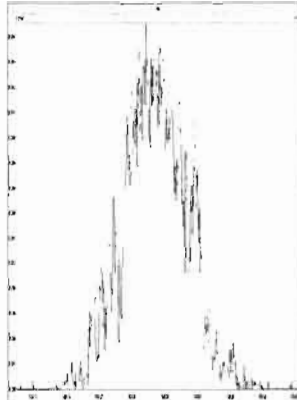
M 404.9760 R 11415



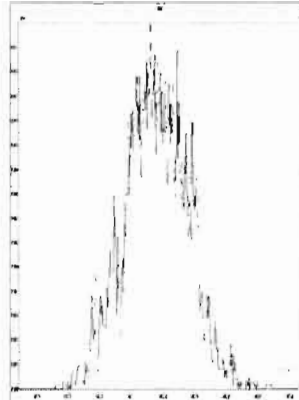
M 416.9760 R 11413



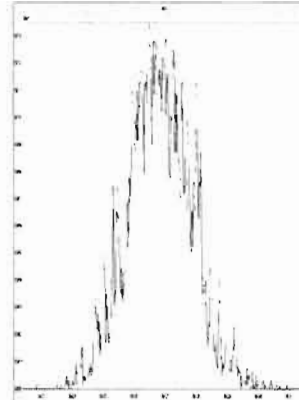
M 430.9728 R 10870



M 442.9728 R 10372



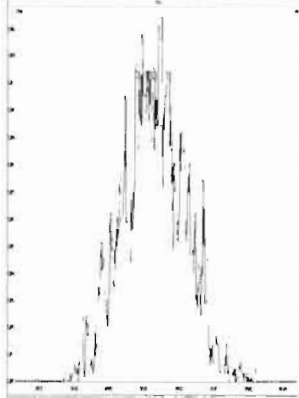
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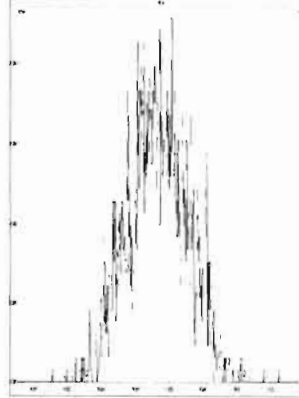
File: Experiment: ocdd_db5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, June 07, 2021 15:58:16 Pacific Daylight Time

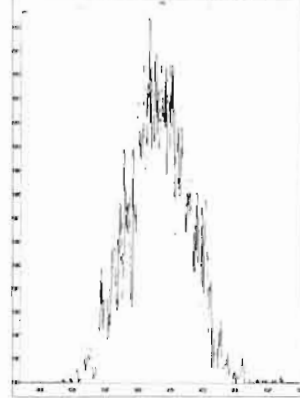
M 404.9760 R 11683



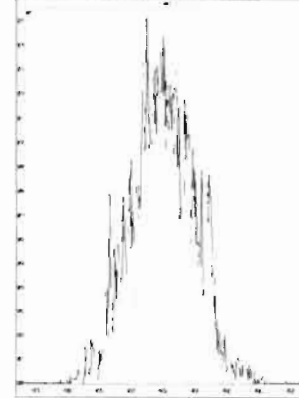
M 416.9760 R 12314



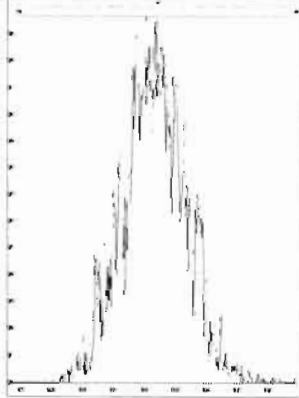
M 430.9728 R 10506



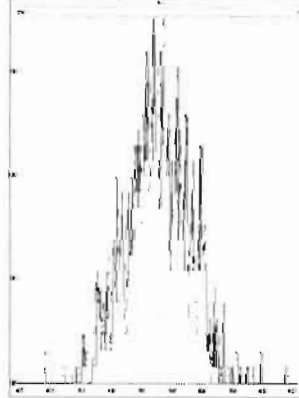
M 442.9728 R 11062



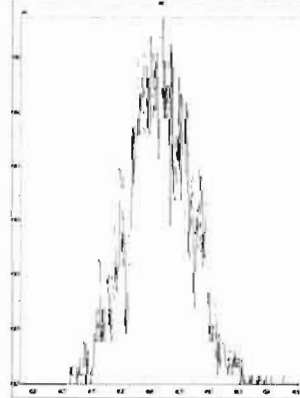
M 454.9728 R 10637



M 466.9728 R 11014



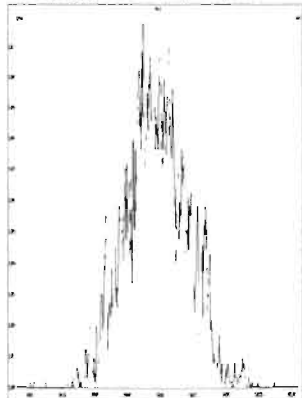
M 480.9696 R 10416



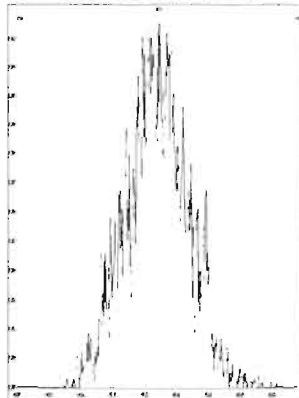
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Printed: Monday, June 07, 2021 15:58:51 Pacific Daylight Time

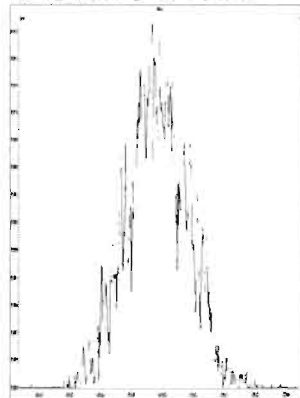
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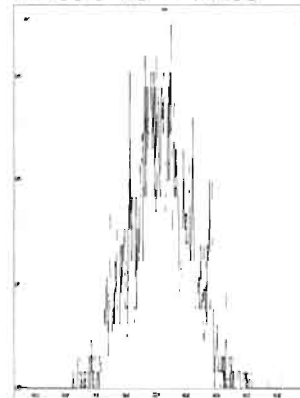
M 442.9728 R 11014



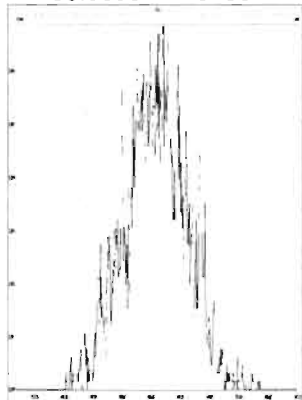
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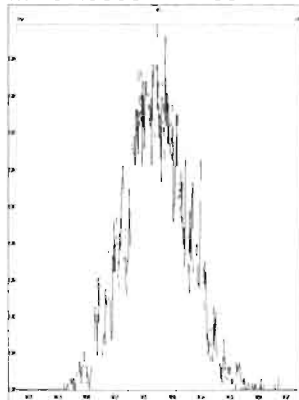
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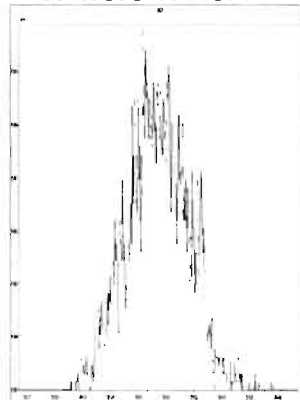
M 480.9696 R 10730



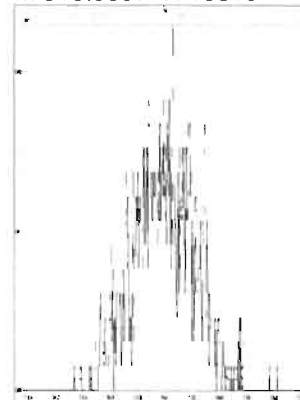
M 492.9696 R 11064



M 504.9696 R 11571



M 516.9697 R 10819



Dataset: Untitled

Last Altered: Tuesday, June 08, 2021 11:38:47 Pacific Daylight Time

Printed: Tuesday, June 08, 2021 11:39:02 Pacific Daylight Time

Method: Untitled 18 May 2021 09:20:10

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

	# Name	RT
1	1 1,3,6,8-TCDD (First)	23.83
2	2 1,2,8,9-TCDD (Last)	27.76
3	3 1,2,4,7,9-PeCDD (First)	29.10
4	4 1,2,3,8,9-PeCDD (Last)	31.49
5	5 1,2,4,6,7,9-HxCDD (First)	32.81
6	6 1,2,3,7,8,9-HxCDD (Last)	35.02
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.41
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.25
9	9 1,3,6,8-TCDF (First)	21.94
10	10 1,2,8,9-TCDF (Last)	28.05
11	11 1,3,4,6,8-PeCDF (First)	27.64
12	12 1,2,3,8,9-PeCDF (Last)	31.85
13	13 1,2,3,4,6,8-HxCDF (First)	32.25
14	14 1,2,3,7,8,9-HxCDF (Last)	35.60
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.13
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.94

Dataset: Untitled

Last Altered: Tuesday, June 08, 2021 11:38:47 Pacific Daylight Time

Printed: Tuesday, June 08, 2021 11:39:02 Pacific Daylight Time

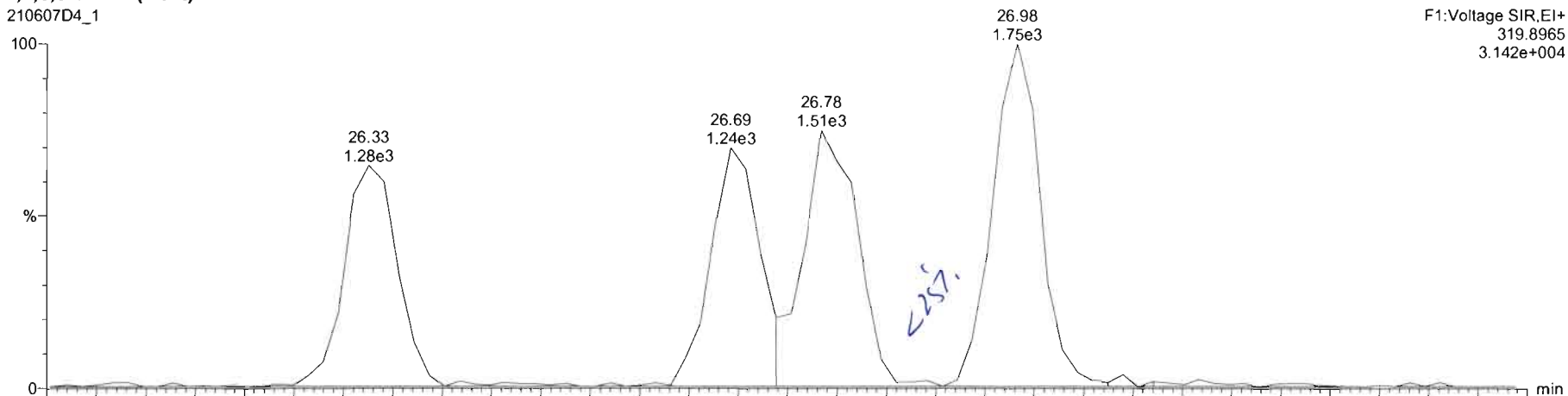
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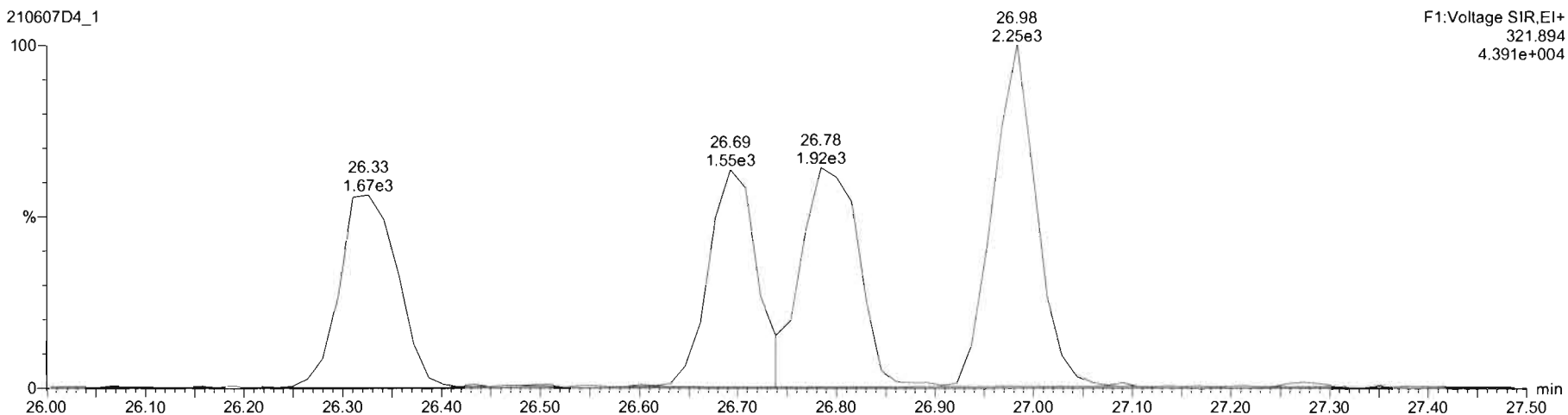
Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

210607D4_1



210607D4_1



Dataset: Untitled

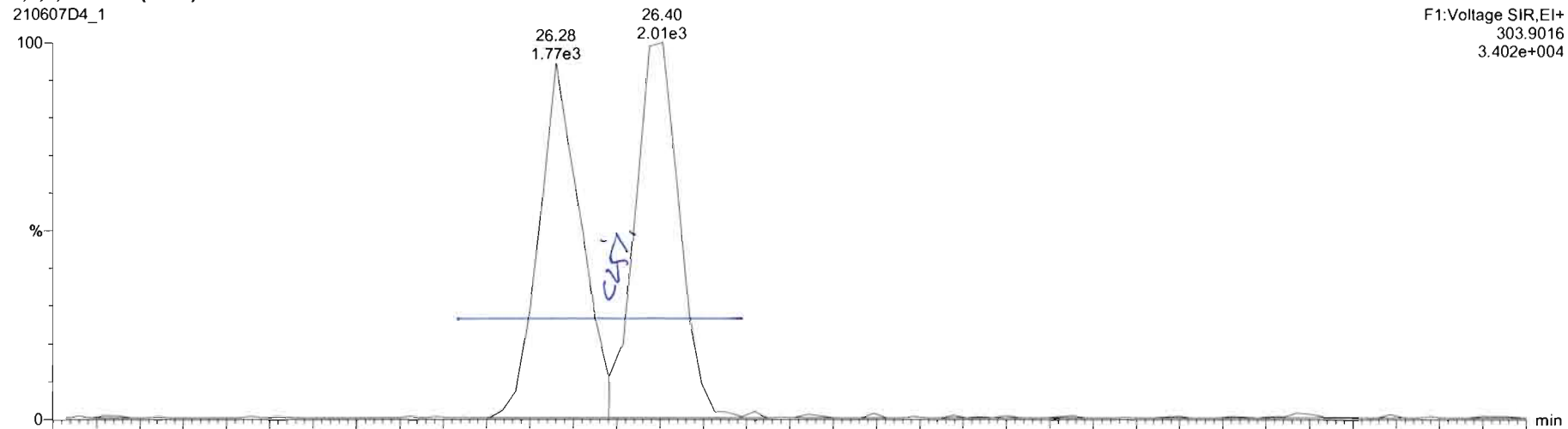
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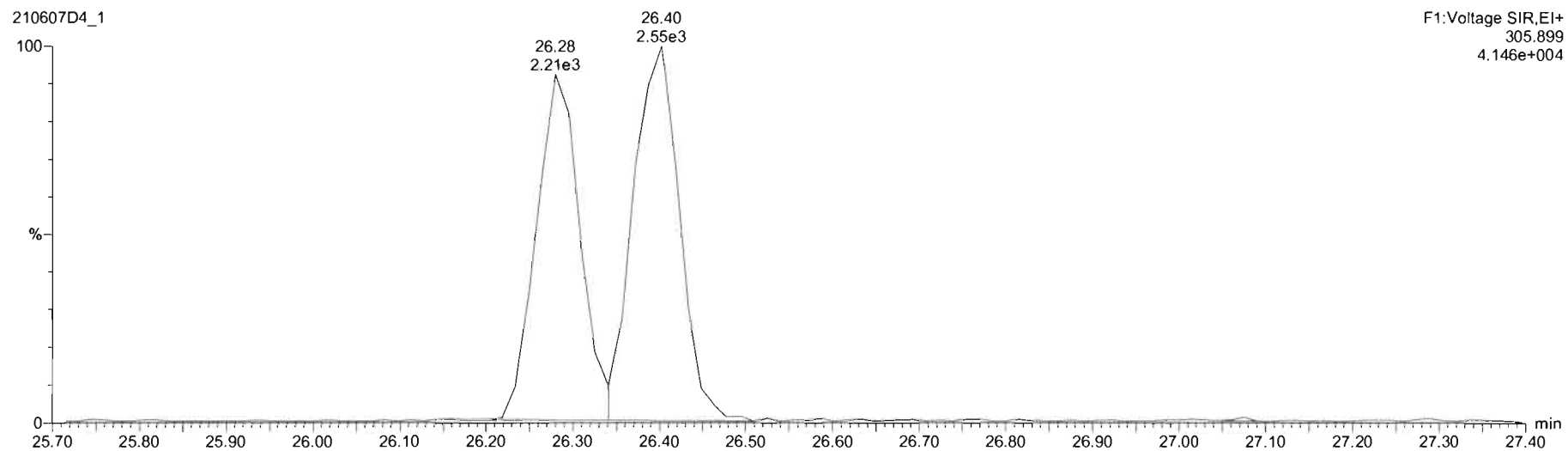
Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

210607D4_1



210607D4_1



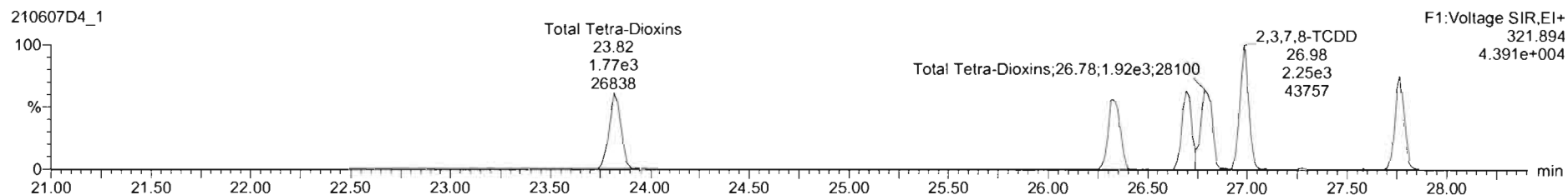
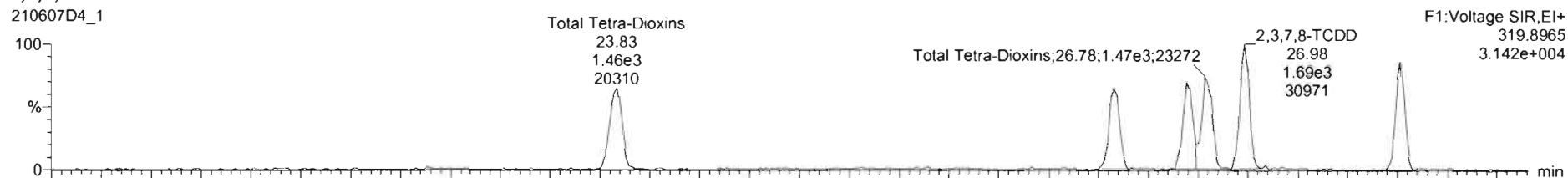
Dataset: U:\VG7.PRO\Results\210607D4\210607D4-1.qld

Last Altered: Monday, June 07, 2021 16:46:07 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:40:18 Pacific Daylight Time

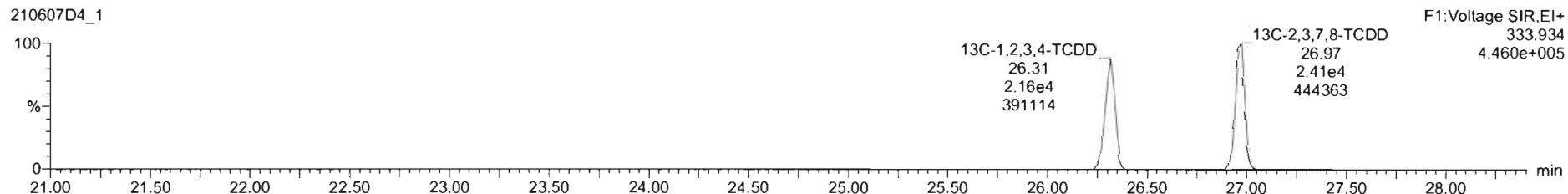
Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_5-19-21.mdb 19 May 2021 12:17:04
Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDD



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



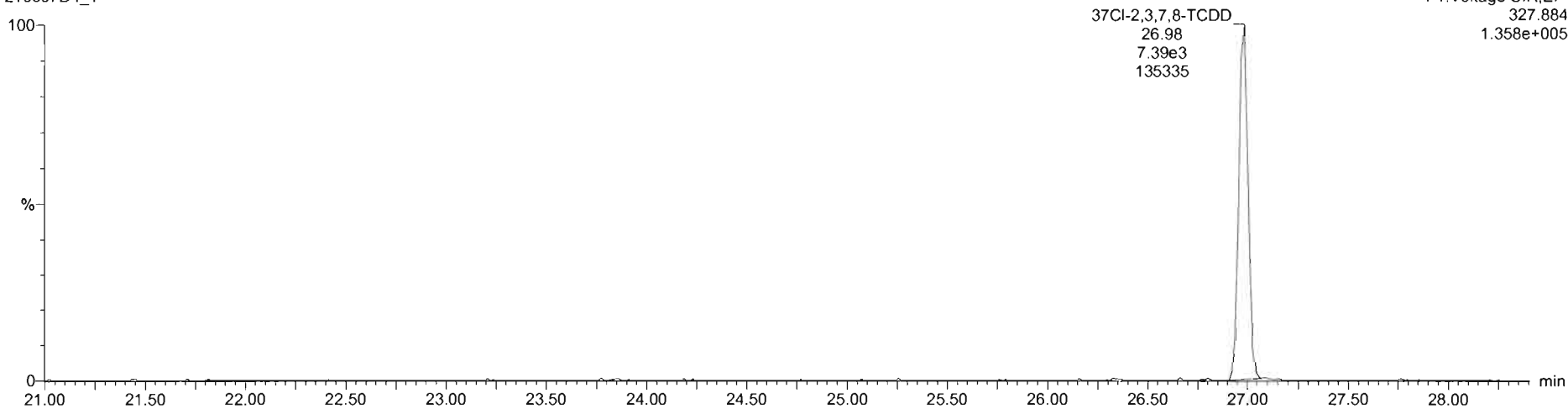
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Last Altered: Monday, June 07, 2021 16:46:07 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:40:18 Pacific Daylight Time

Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

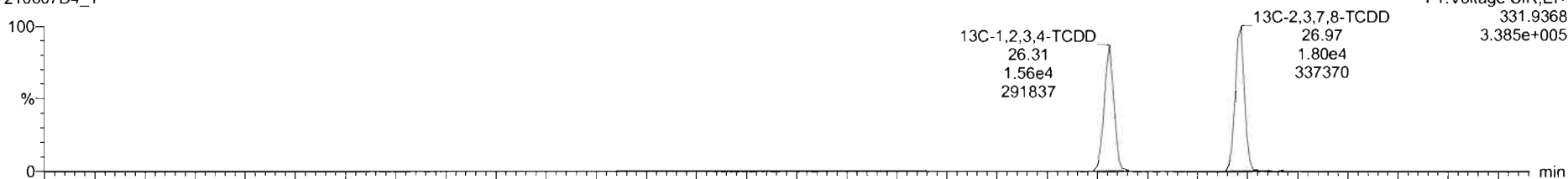
37Cl-2,3,7,8-TCDD

210607D4_1

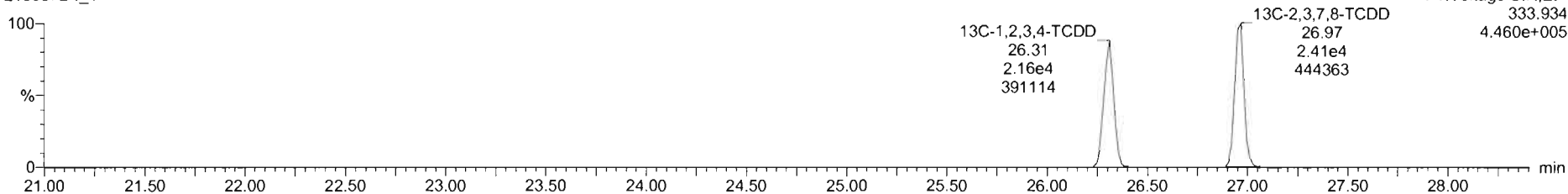


13C-1,2,3,4-TCDD

210607D4_1



210607D4_1



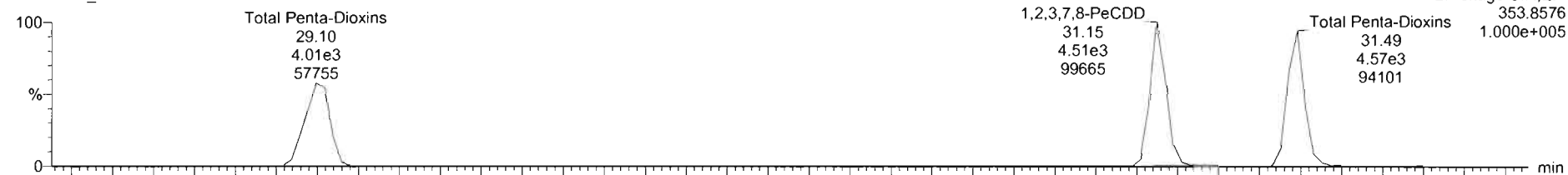
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Printed: Tuesday, June 08, 2021 11:40:18 Pacific Daylight Time

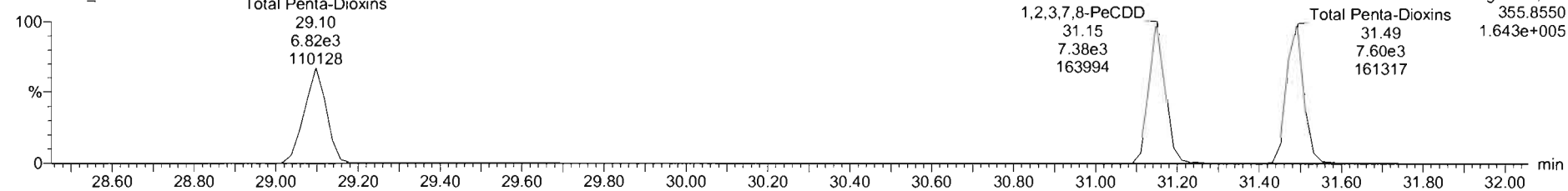
Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,7,8-PeCDD

210607D4_1

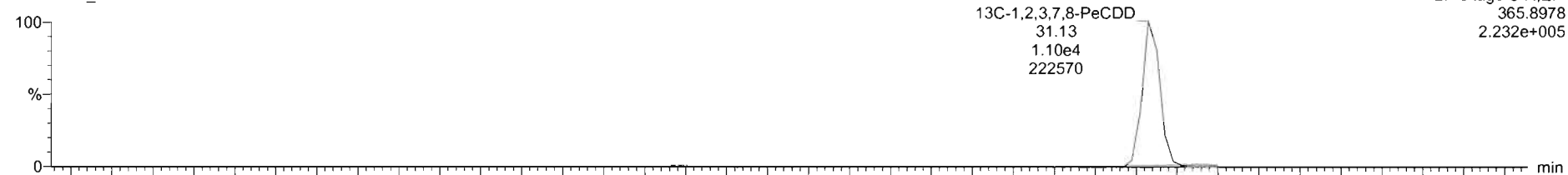


210607D4_1

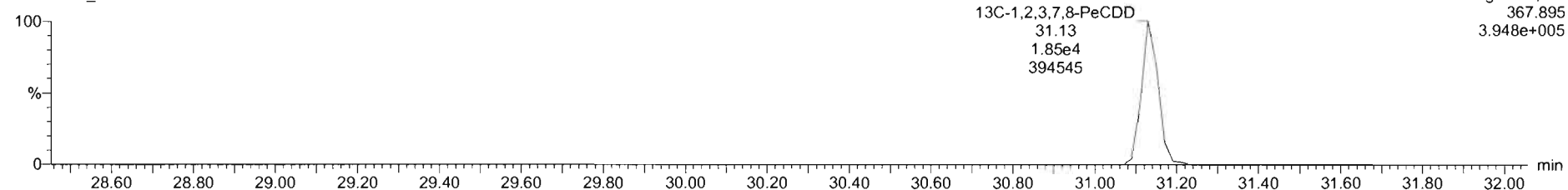


13C-1,2,3,7,8-PeCDD

210607D4_1



210607D4_1

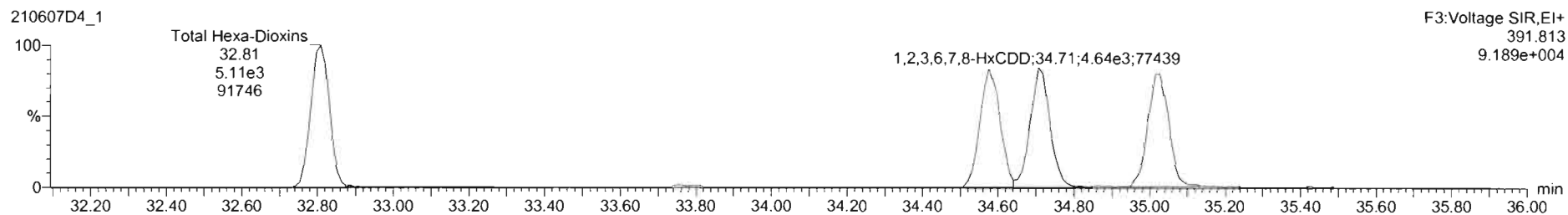
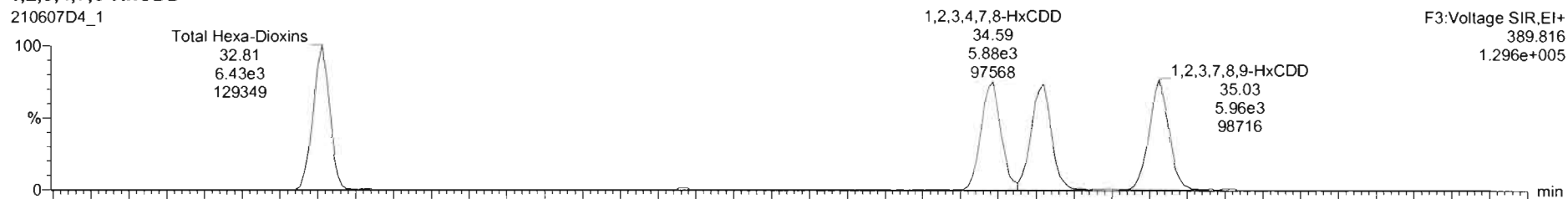


Dataset: U:\VG7.PRO\Results\210607D4\210607D4-1.qld

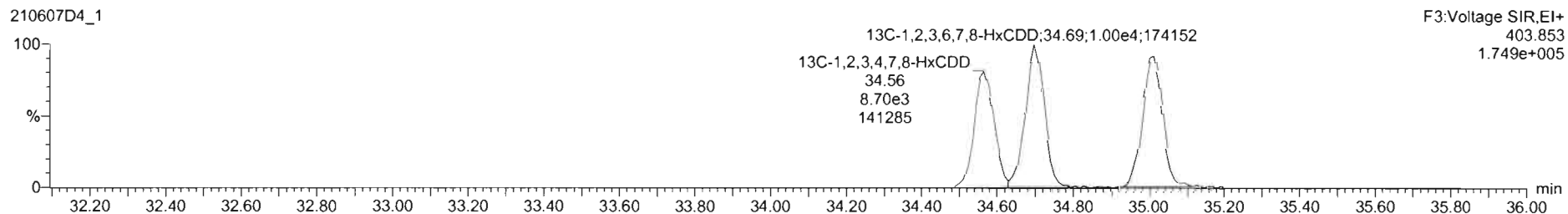
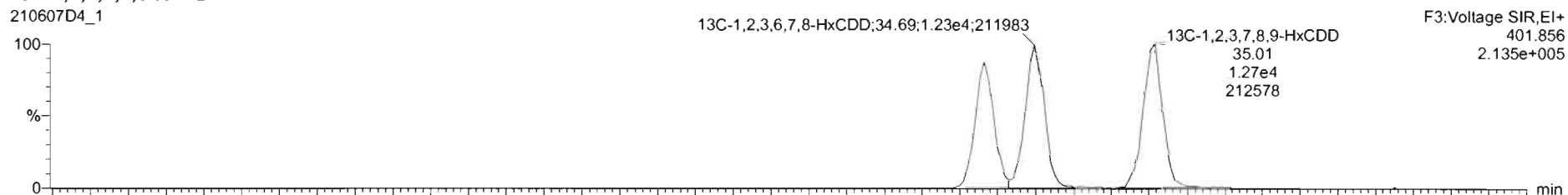
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Printed: Tuesday, June 08, 2021 11:40:18 Pacific Daylight Time

Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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



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



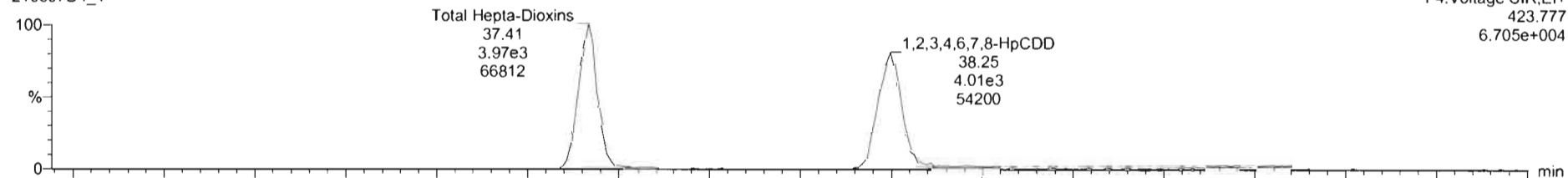
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Last Altered: Monday, June 07, 2021 16:46:07 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:40:18 Pacific Daylight Time

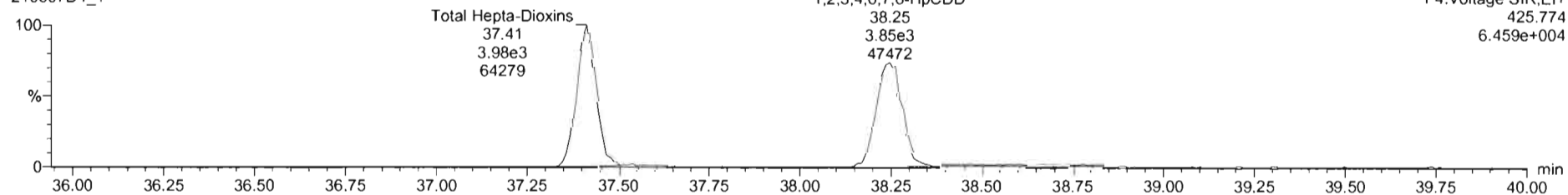
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1,2,3,4,6,7,8-HpCDD

210607D4_1

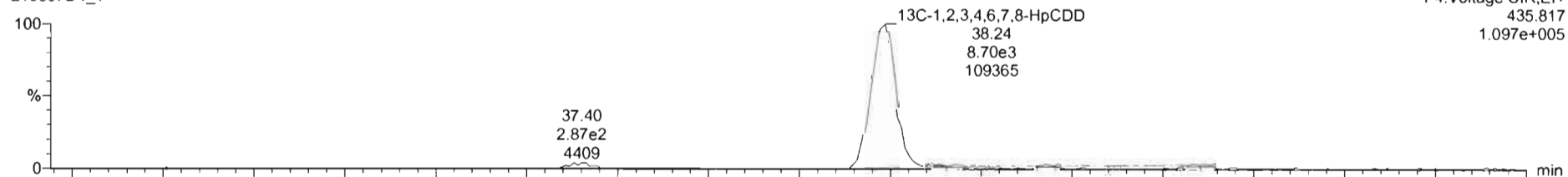


210607D4_1

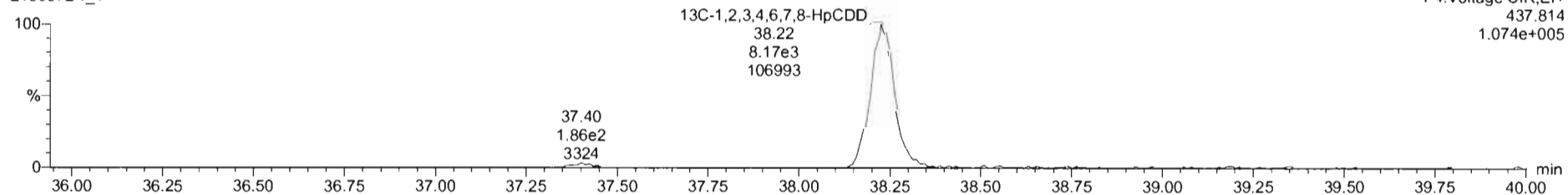


13C-1,2,3,4,6,7,8-HpCDD

210607D4_1



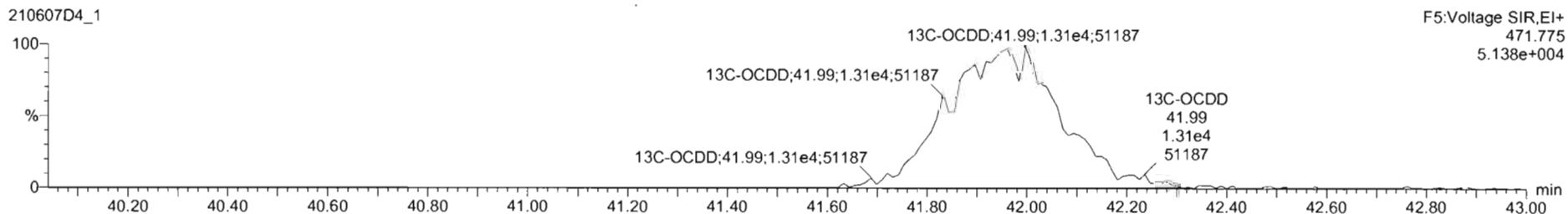
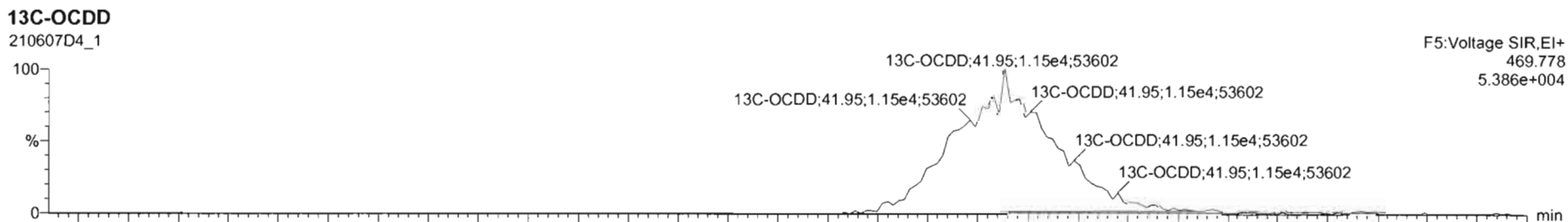
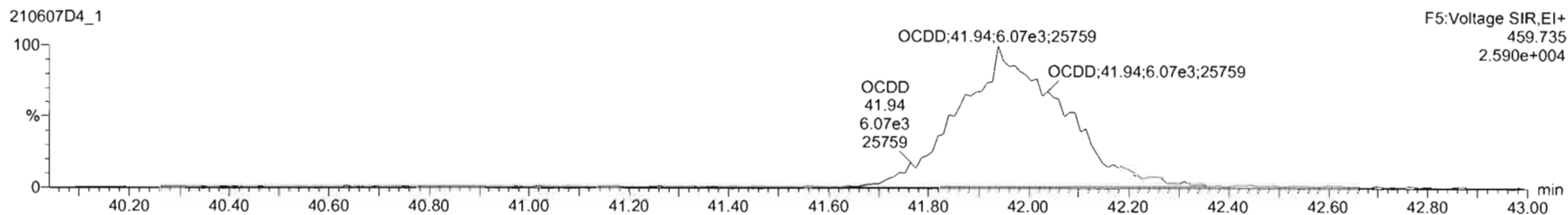
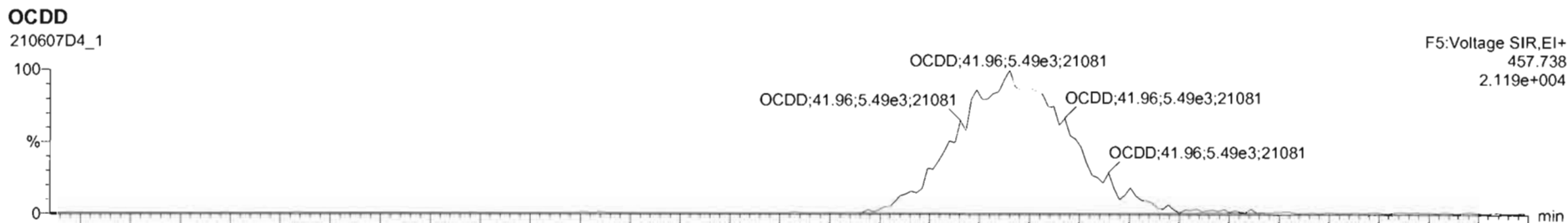
210607D4_1



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Last Altered: Monday, June 07, 2021 16:46:07 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:40:18 Pacific Daylight Time

Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

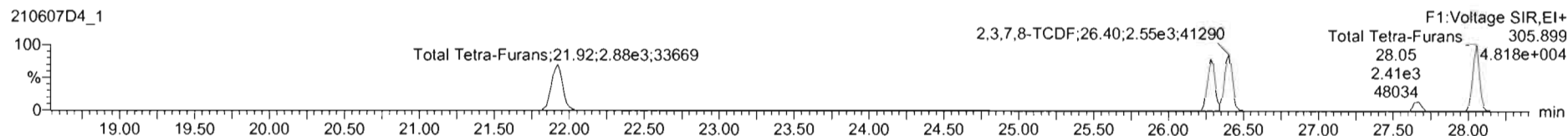
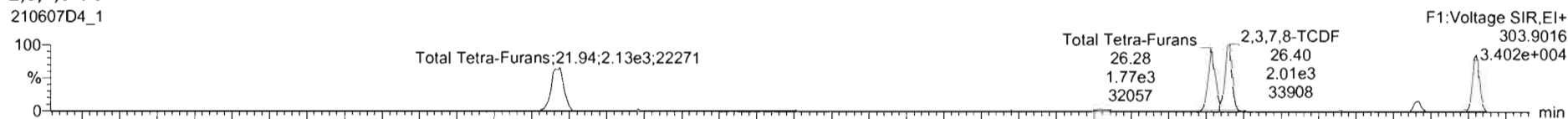


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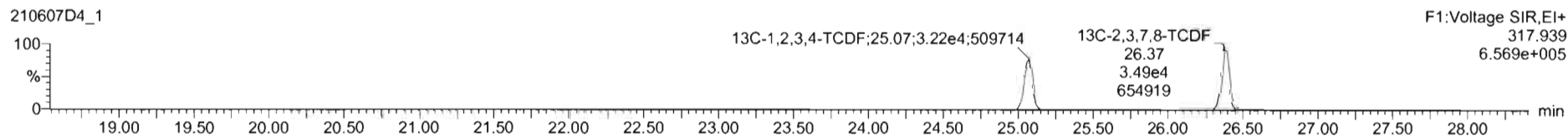
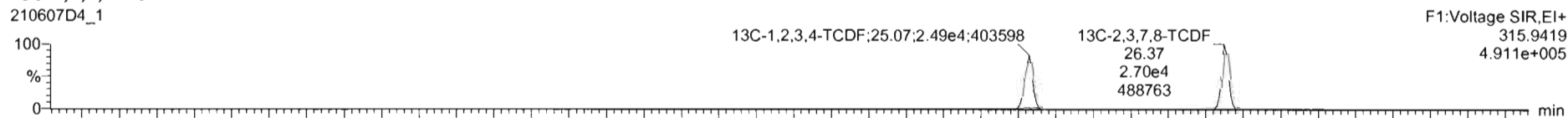
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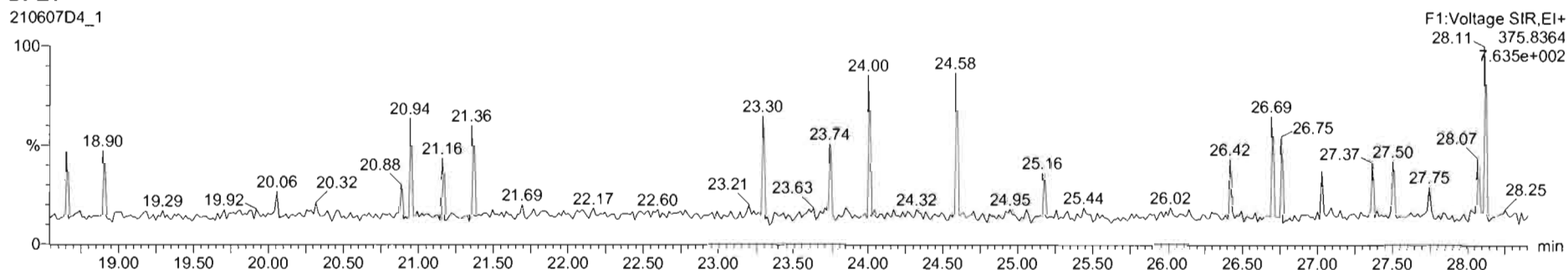
2,3,7,8-TCDF



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



DPE1



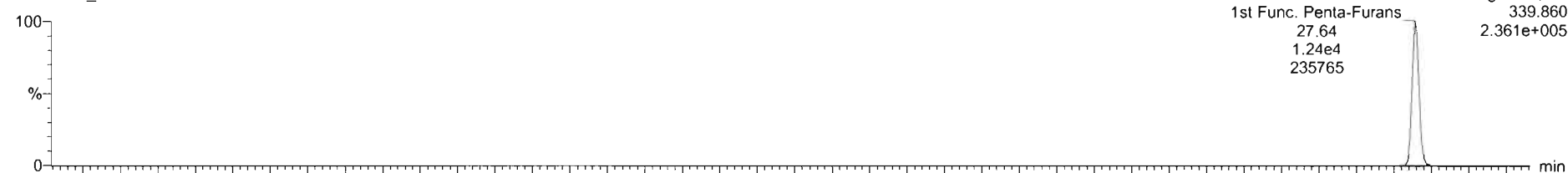
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Last Altered: Monday, June 07, 2021 16:46:07 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:40:18 Pacific Daylight Time

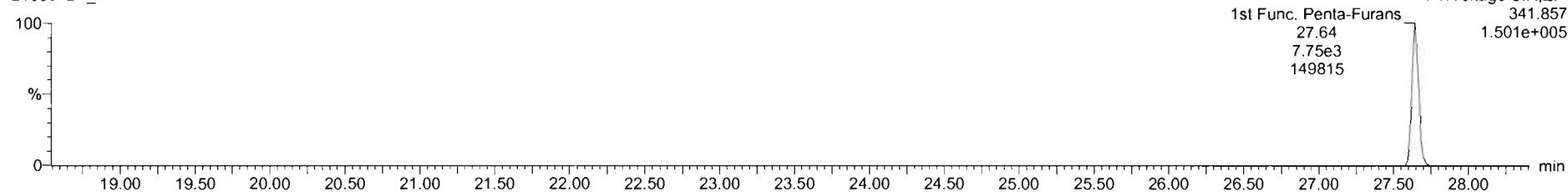
Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1st Func. Penta-Furans

210607D4_1

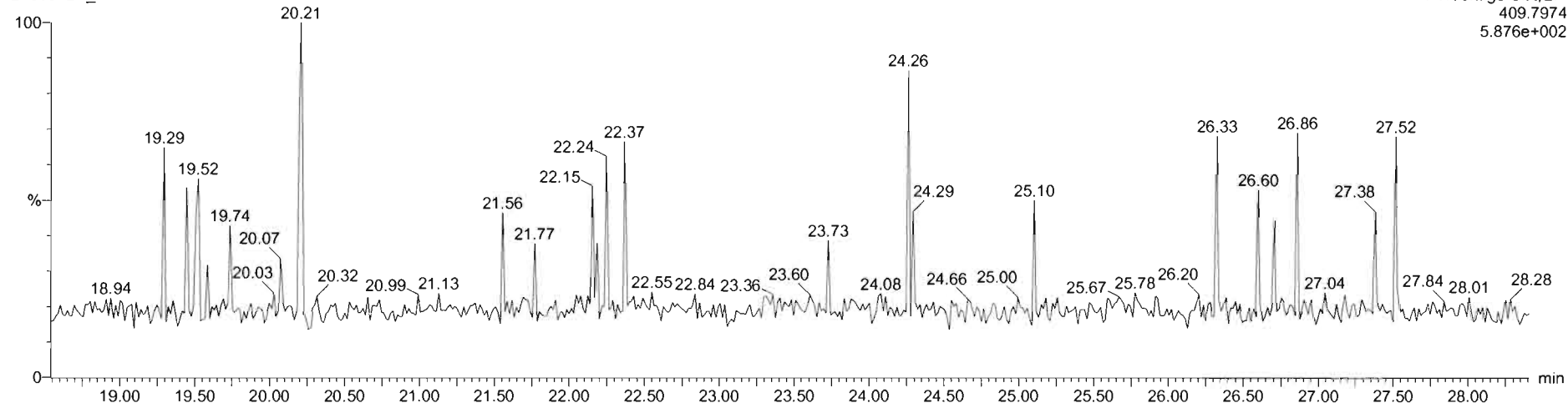


210607D4_1



DPE6

210607D4_1

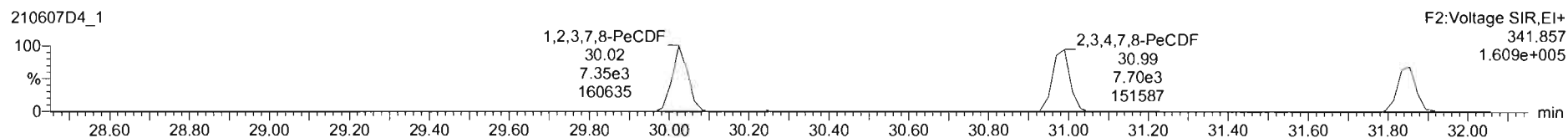
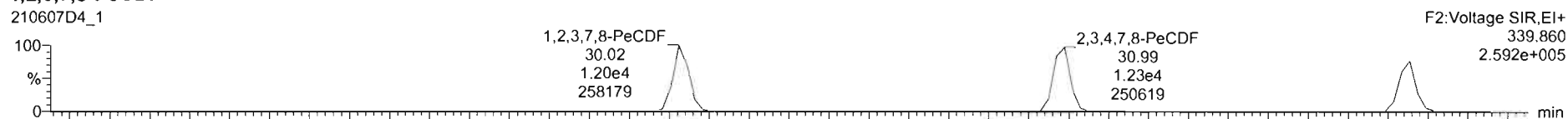


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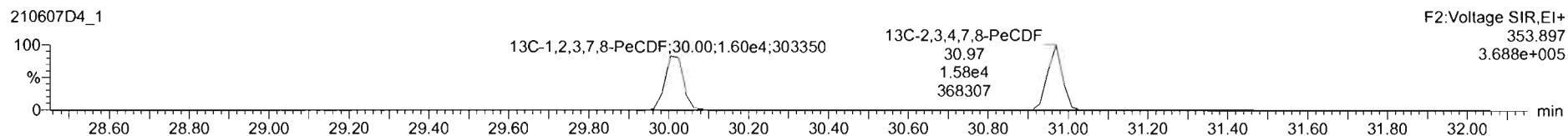
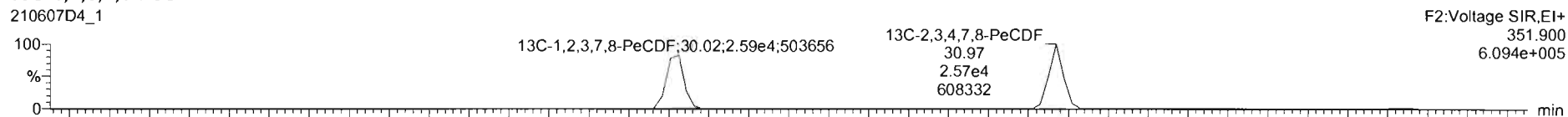
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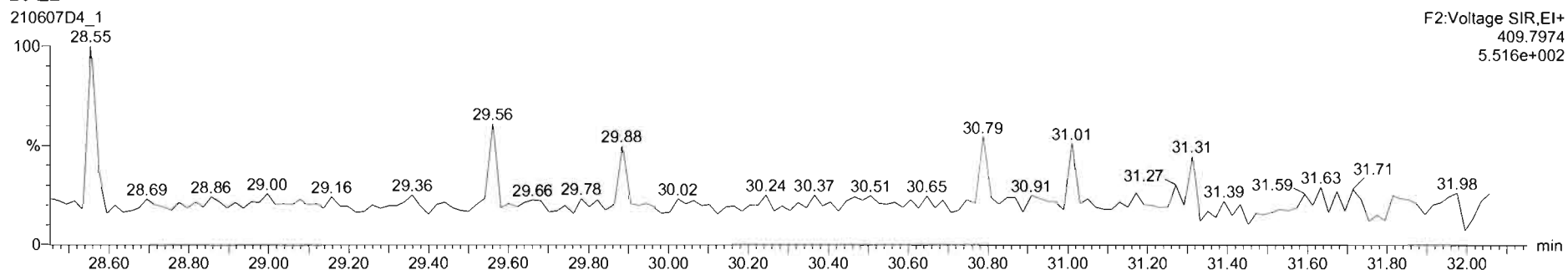
1,2,3,7,8-PeCDF



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



DPE2

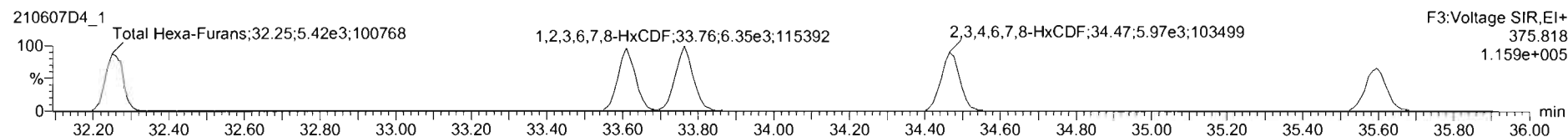
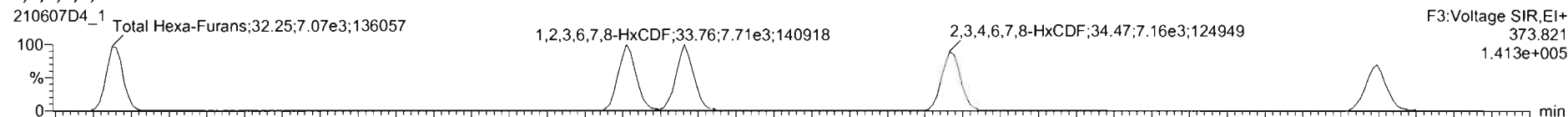


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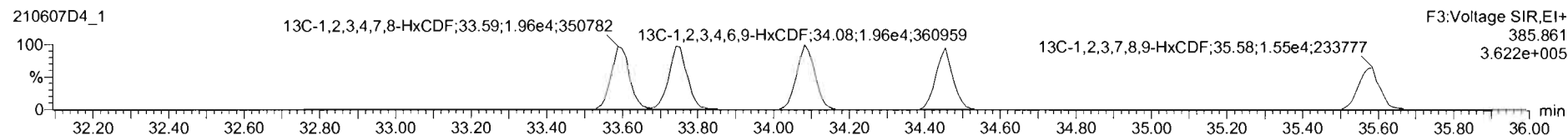
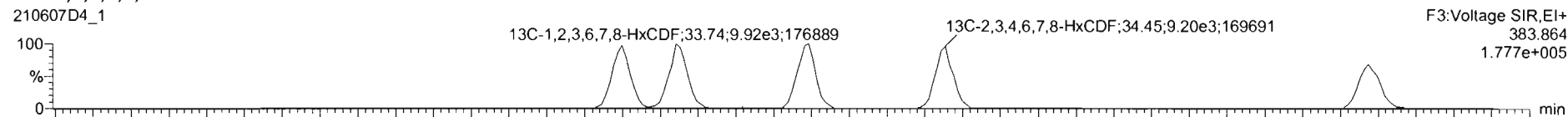
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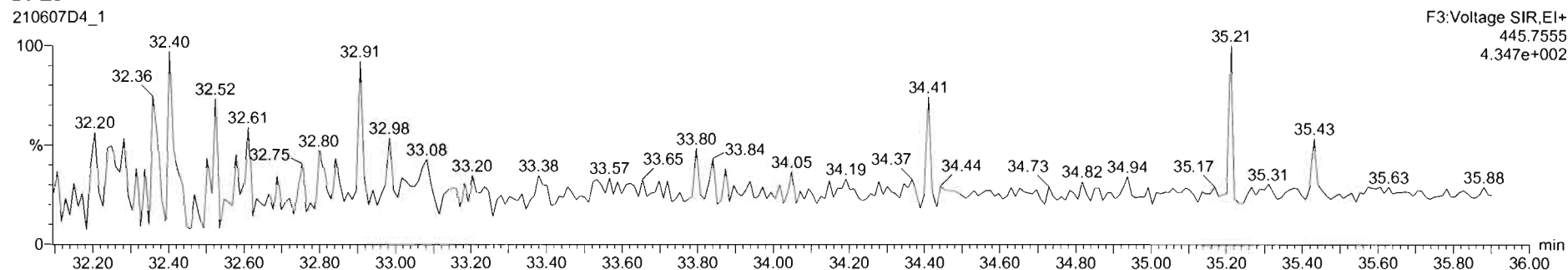
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: U:\VG7.PRO\Results\210607D4\210607D4-1.qld

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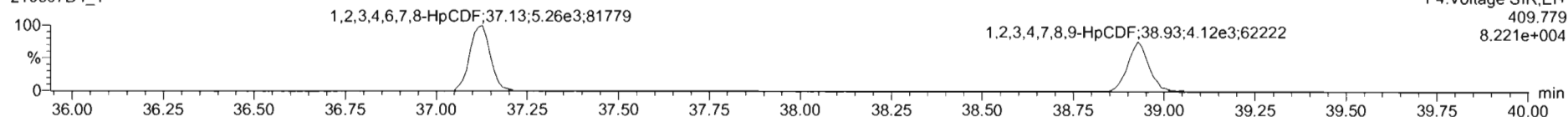
1,2,3,4,6,7,8-HpCDF

210607D4_1



F4:Voltage SIR,EI+
407.782
7.735e+004

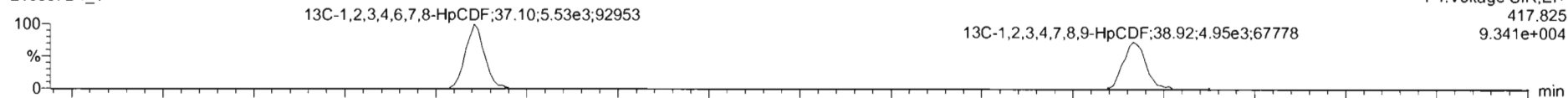
210607D4_1



F4:Voltage SIR,EI+
409.779
8.221e+004

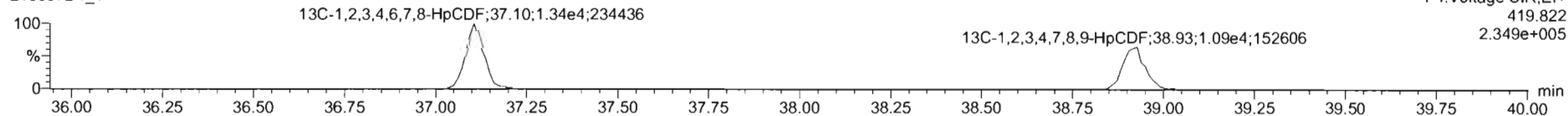
13C-1,2,3,4,6,7,8-HpCDF

210607D4_1



F4:Voltage SIR,EI+
417.825
9.341e+004

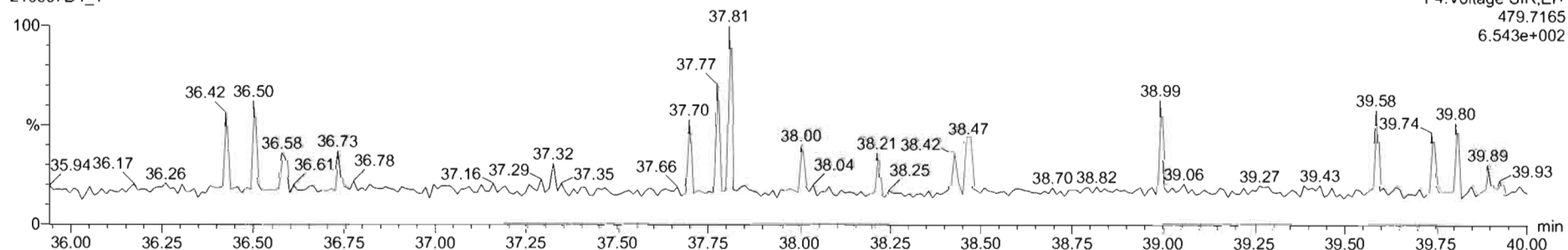
210607D4_1



F4:Voltage SIR,EI+
419.822
2.349e+005

DPE4

210607D4_1

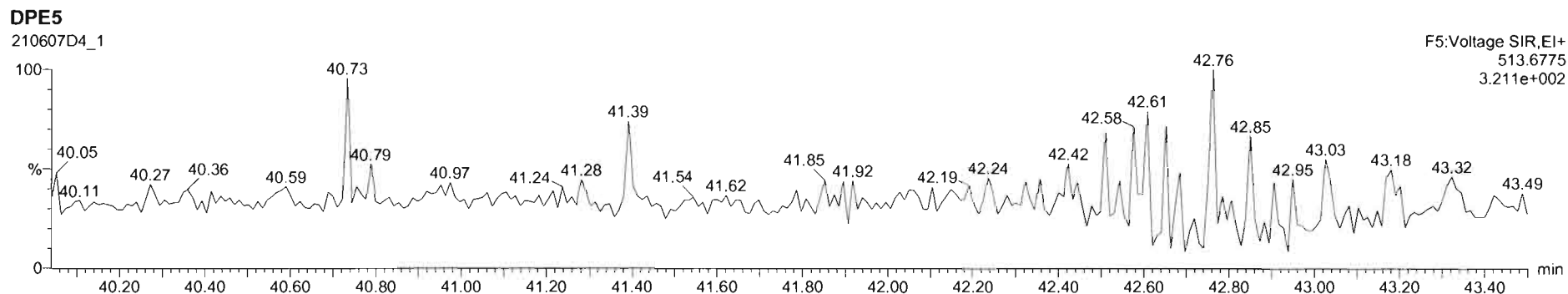
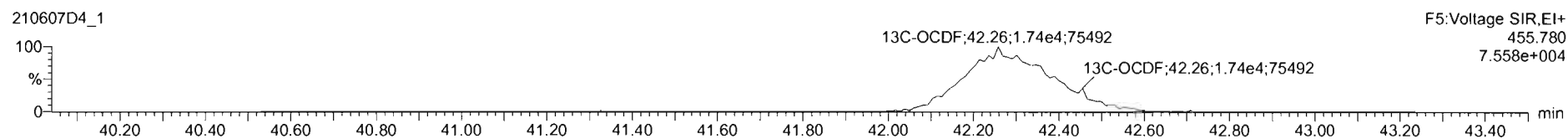
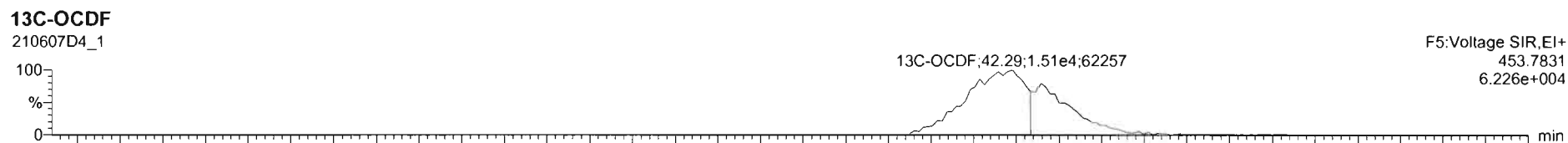
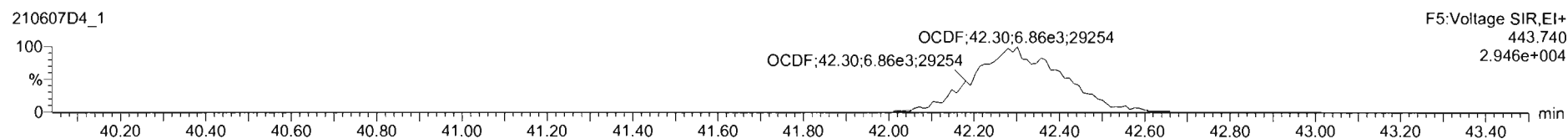
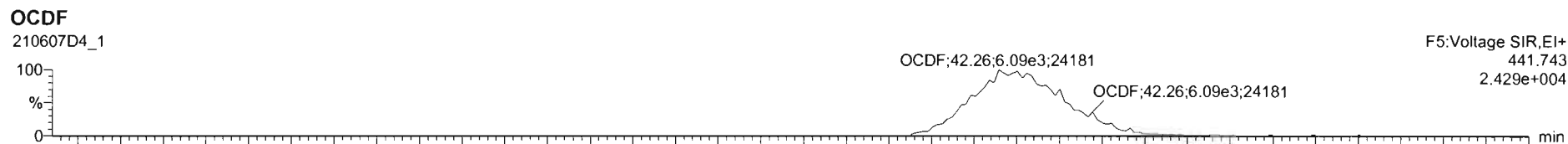


F4:Voltage SIR,EI+
479.7165
6.543e+002

Dataset: U:\VG7.PRO\Results\210607D4\210607D4-1.qld

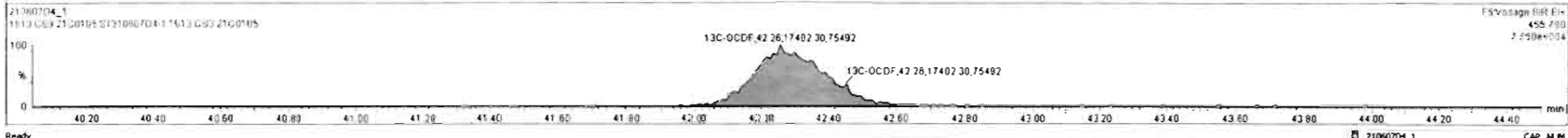
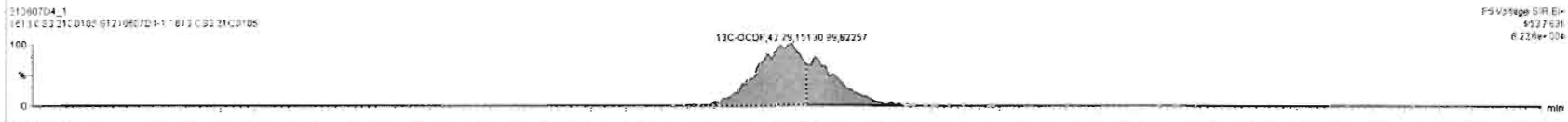
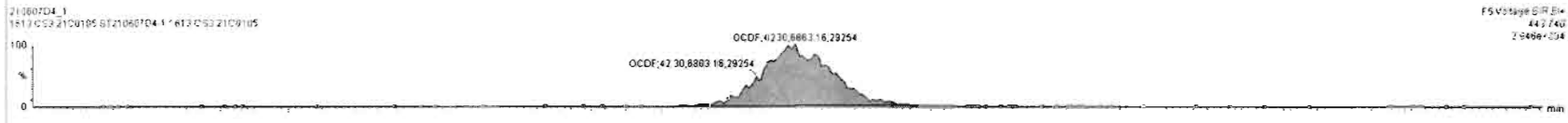
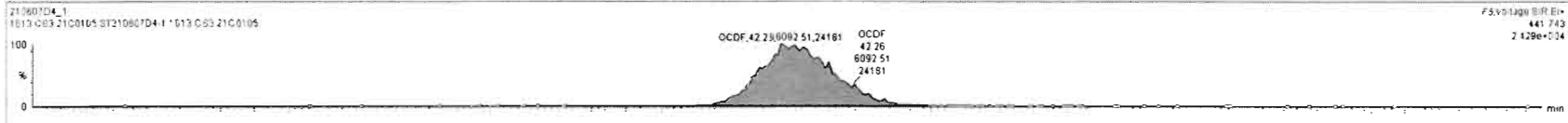
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Printed: Tuesday, June 08, 2021 11:40:18 Pacific Daylight Time

Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105



21060704_1 - ST210607D4-1 1613 C53 21C0105 - 1613 C53 21C0105

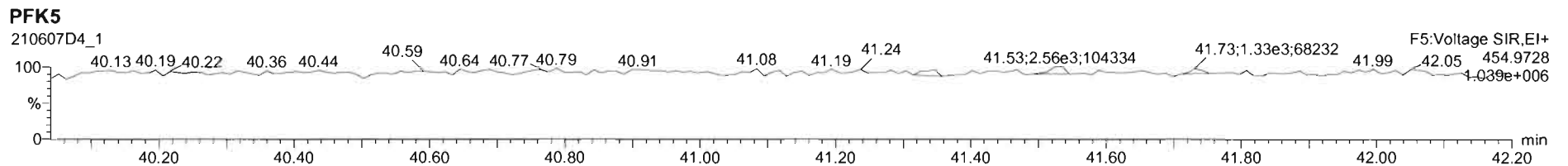
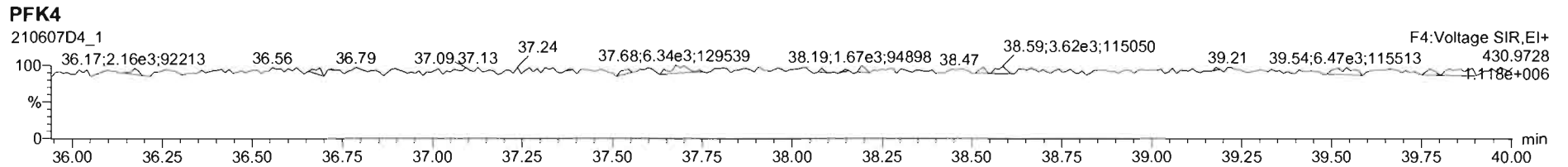
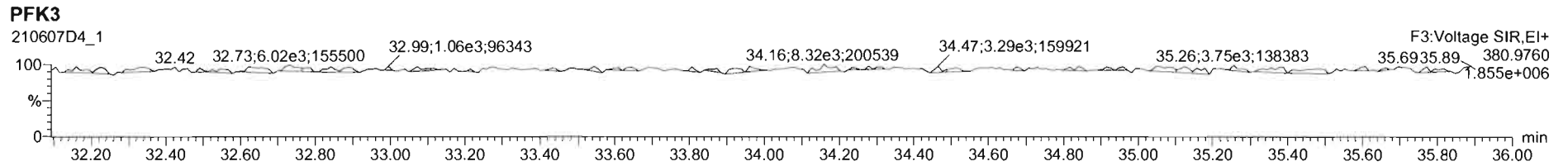
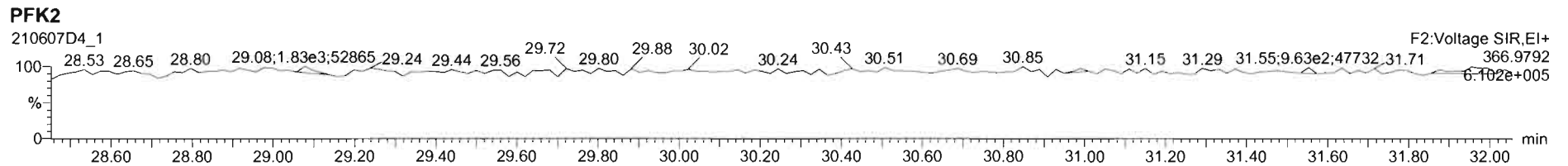
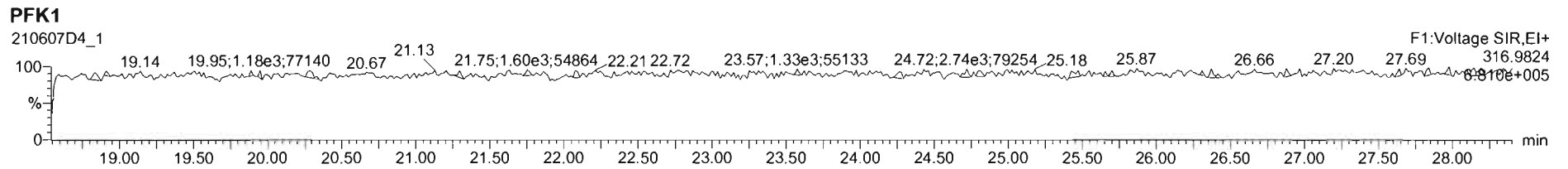
#	Name	Reap	IS Reap	Pred RA	RA	ndy	RR'	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Res	STD out
2	1,2,3,7,8-PeCDD	1.19e4	2.95e4	0.63	0.81	NO	0.8813	31.15	31.15	NO	1.001	1.001	45.7	91.4	NO
3	1,2,3,4,7,8-HxCDD	1.05e4	1.94e4	1.24	1.26	NO	1.1425	34.57	34.59	NO	1.000	1.001	47.6	95.1	NO
4	1,2,3,6,7,8-HxCDD	1.05e4	2.23e4	1.24	1.28	NO	1.0108	34.71	34.72	NO	1.000	1.001	48.5	92.9	NO
5	1,2,3,7,8,9-HxCDD	1.07e4	2.26e4	1.24	1.27	NO	1.0194	35.04	35.03	NO	1.001	1.000	48.2	92.8	NO
6	1,2,3,4,6,7,8-HpCDD	7.89e3	1.69e4	1.04	1.04	NO	1.0650	38.25	38.25	NO	1.000	1.000	43.7	87.4	NO
7	OCDD	1.19e4	2.45e4	0.89	0.90	NO	1.0022	41.96	41.96	NO	1.000	1.000	94.0	94.0	NO
8	2,3,7,8-TCDF	4.55e3	8.19e4	0.77	0.79	NO	0.8837	26.40	26.40	NO	1.001	1.001	8.52	85.2	NO
9	1,2,3,7,8-PeCDF	1.93e4	4.19e4	1.55	1.63	NO	0.9484	30.04	30.02	NO	1.001	1.000	48.7	97.4	NO
10	2,3,4,7,8-PeCDF	2.00e4	4.15e4	1.55	1.60	NO	1.0377	31.00	30.88	NO	1.001	1.001	46.4	92.8	NO
11	1,2,3,4,7,8-HxCDF	1.36e4	2.92e4	1.24	1.29	NO	1.0430	33.60	33.61	NO	1.001	1.001	44.4	88.9	NO
12	1,2,3,6,7,8-HxCDF	1.41e4	2.96e4	1.24	1.22	NO	1.0742	33.75	33.76	NO	1.000	1.001	44.0	87.9	NO
13	2,3,4,6,7,8-HxCDF	1.31e4	2.67e4	1.24	1.20	NO	1.1171	34.46	34.47	NO	1.000	1.000	44.0	88.0	NO
14	1,2,3,7,8,9-HxCDF	1.14e4	2.36e4	1.24	1.25	NO	1.0187	35.57	35.60	NO	1.000	1.001	44.0	87.9	NO
15	1,2,3,4,6,7,8-HpCDF	1.03e4	1.89e4	1.04	0.98	NO	1.1198	37.14	37.12	NO	1.001	1.001	47.0	94.0	NO
16	1,2,3,4,7,8,9-HpCDF	8.35e3	1.56e4	1.04	1.03	NO	1.1088	36.92	36.94	NO	1.000	1.001	44.5	88.9	NO
17	OCDF	1.30e4	3.25e4	0.88	0.89	NO	0.8888	42.29	42.28	NO	1.000	0.988	87.7	87.7	NO
18	1,3C-2,3,7,8-TCDD	4.21e4	3.72e4	0.77	0.75	NO	1.1453	26.95	26.97	NO	1.004	1.025	18.8	88.8	NO



Dataset: U:\VG7.PRO\Results\210607D4\210607D4-1.qld

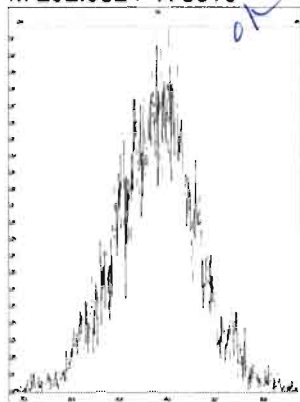
Last Altered: Monday, June 07, 2021 16:46:07 Pacific Daylight Time
Printed: Tuesday, June 08, 2021 11:40:18 Pacific Daylight Time

Name: 210607D4_1, Date: 07-Jun-2021, Time: 16:00:16, ID: ST210607D4-1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

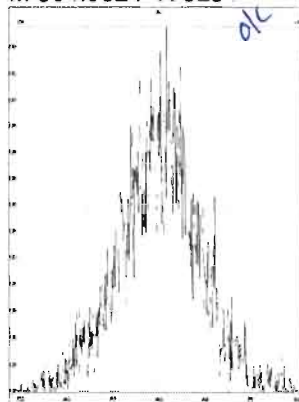


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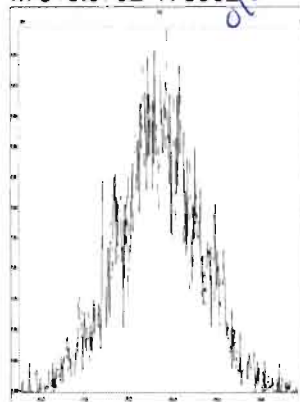
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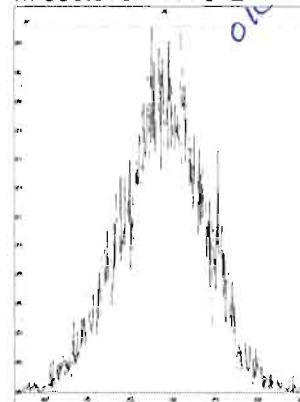
M 304.9824 R 8234



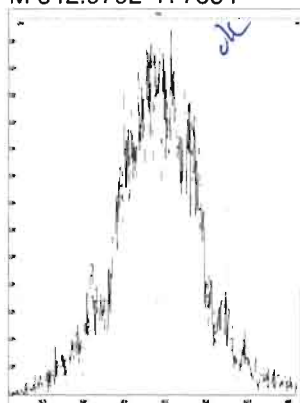
M 318.9792 R 8562



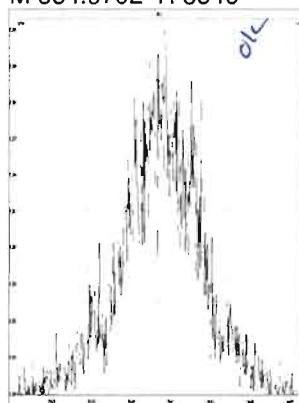
M 330.9792 R 7612



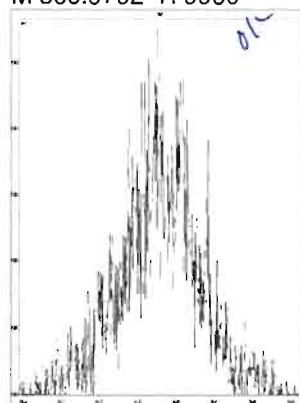
M 342.9792 R 7854



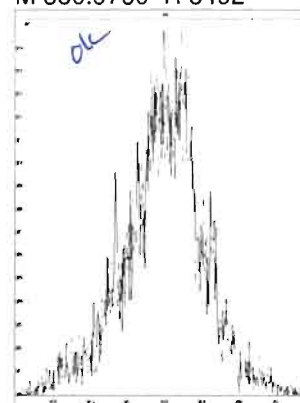
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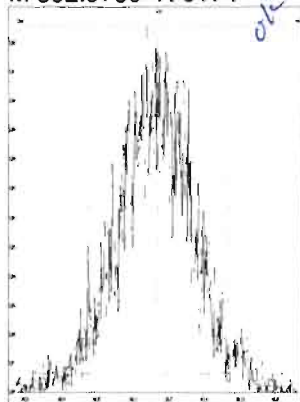
M 366.9792 R 9960



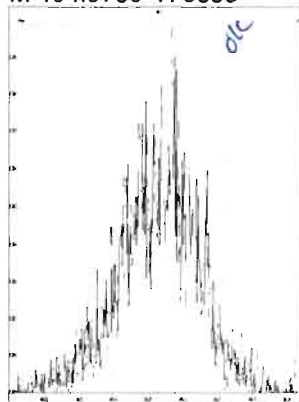
M 380.9760 R 8492



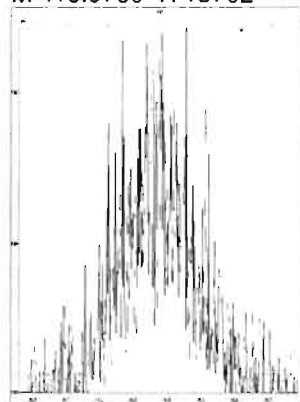
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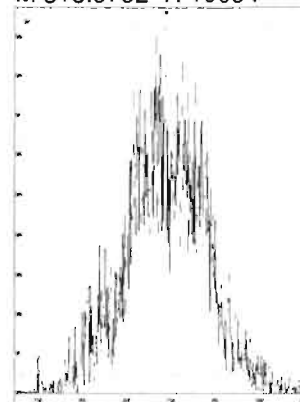
M 404.9760 R 9553



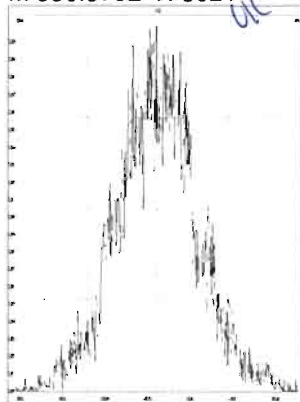
M 416.9760 R 13702



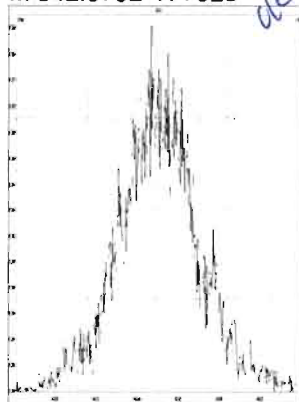
M 318.9792 R 10094



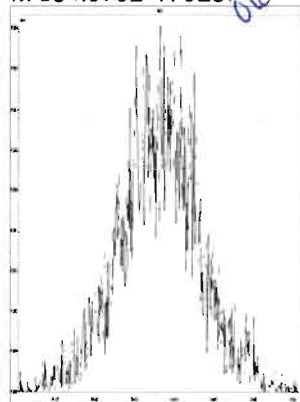
M 330.9792 R 8621



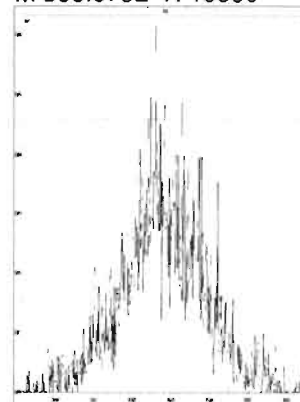
M 342.9792 R 7923



M 354.9792 R 9237

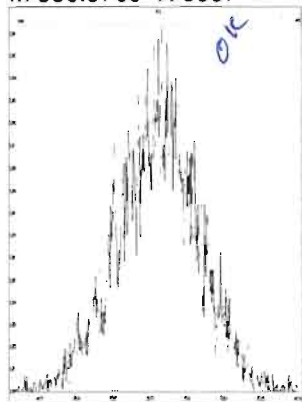


M 366.9792 R 10990

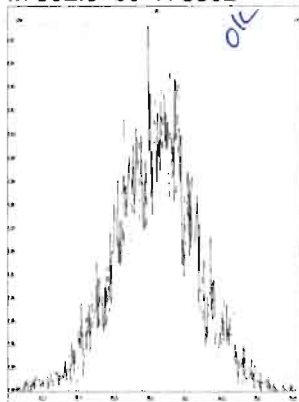


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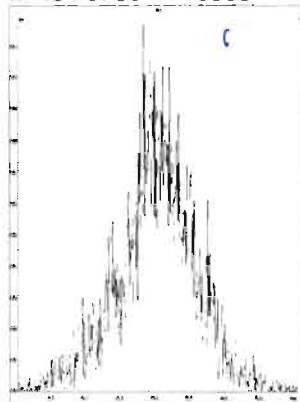
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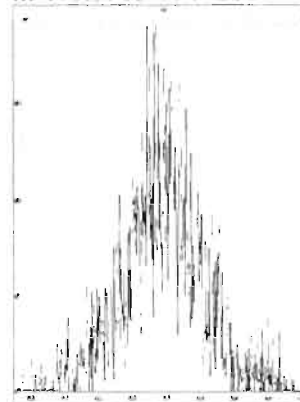
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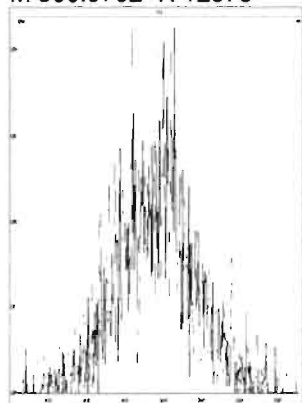
M 404.9760 R 10383



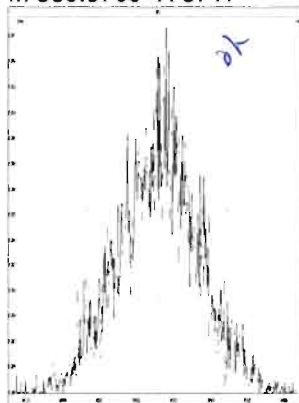
M 416.9760 R 11290



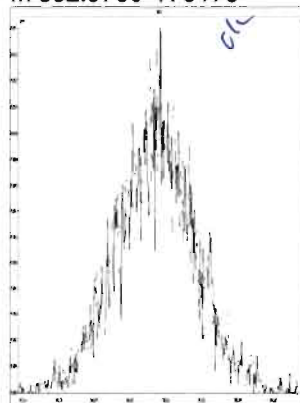
M 366.9792 R 12878



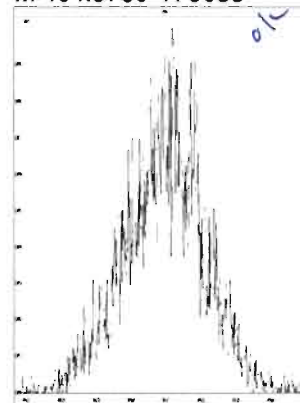
M 380.9760 R 8717



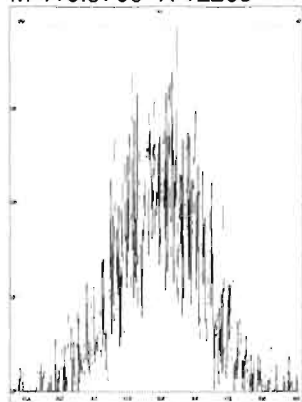
M 392.9760 R 9175



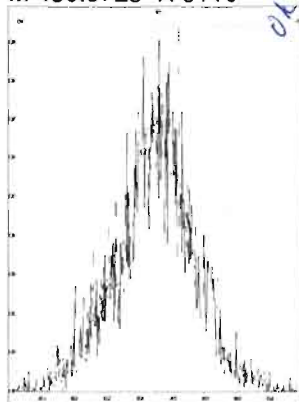
M 404.9760 R 9033



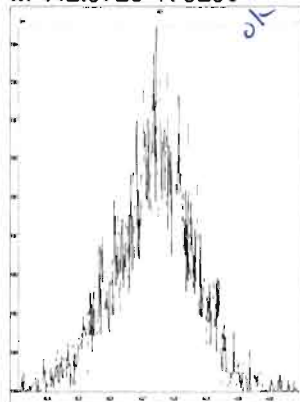
M 416.9760 R 12269



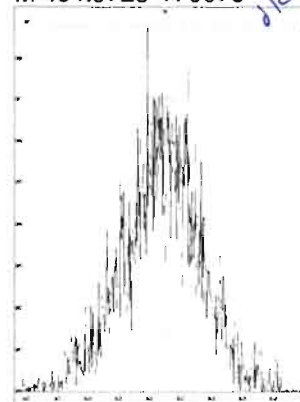
M 430.9728 R 9110



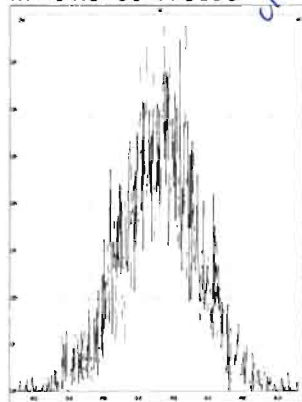
M 442.9728 R 9290



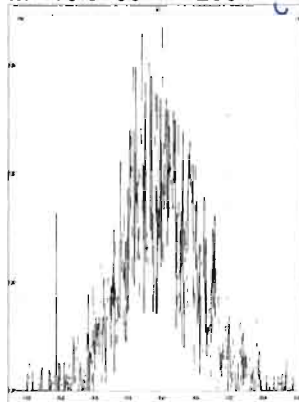
M 454.9728 R 9073



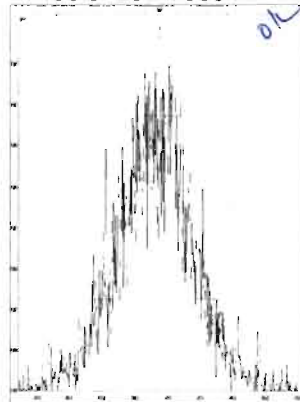
M 404.9760 R 9896



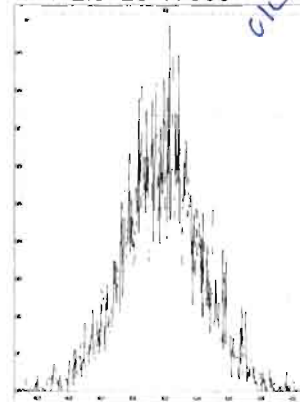
M 416.9760 R 12304



M 430.9728 R 9804

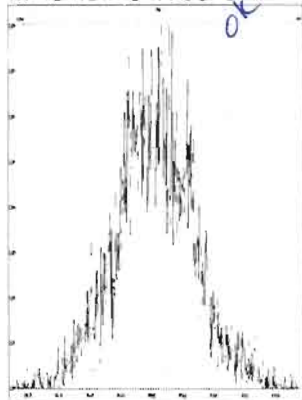


M 442.9728 R 9067

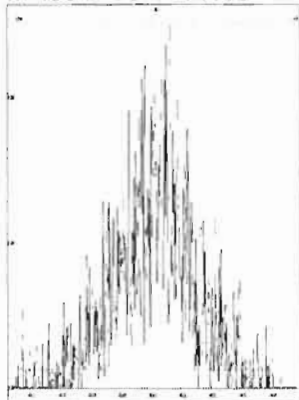


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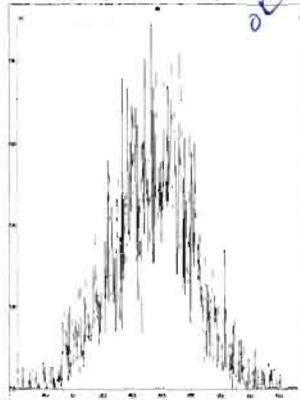
M 454.9728 R 9029



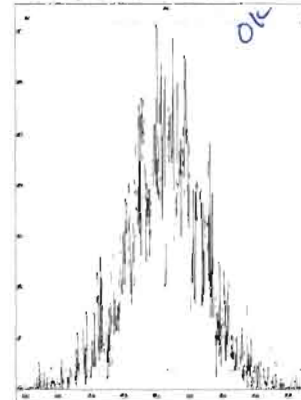
M 466.9728 R 14108



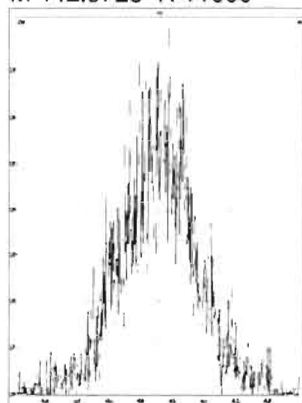
M 480.9696 R 9182



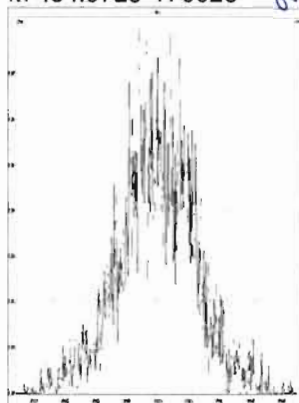
M 430.9728 R 9545



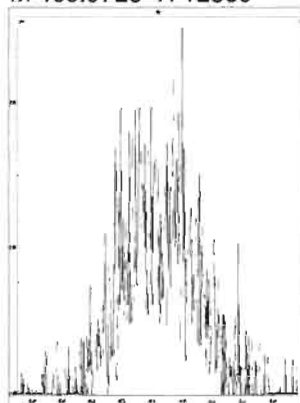
M 442.9728 R 11000



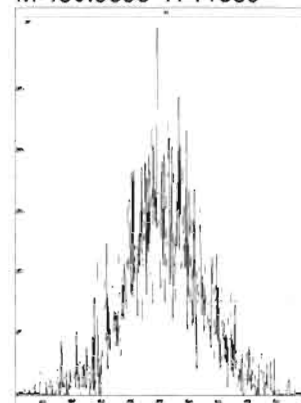
M 454.9728 R 9928



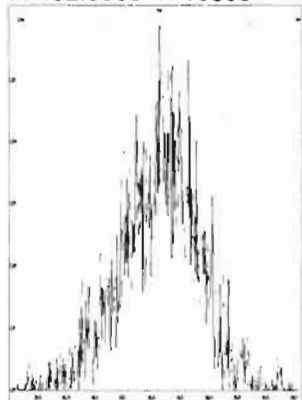
M 466.9728 R 12859



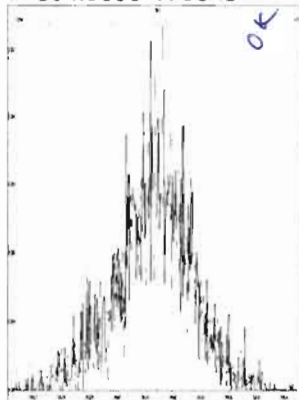
M 480.9696 R 11589



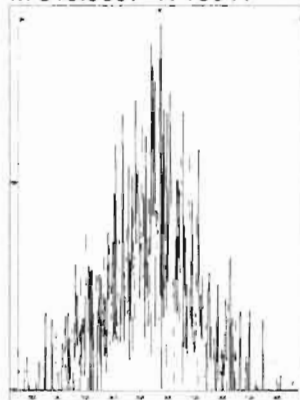
M 492.9696 R 10893



M 504.9696 R 9825



M 516.9697 R 18041



INITIAL CALIBRATION

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

Last Altered: Friday, April 09, 2021 07:54:40 Pacific Daylight Time

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HZ 4.9.2021
OC 04/12/21

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_4-6-21.mdb 06 Apr 2021 09:18:07
 Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

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

Response Factor: 1.04781

RRF SD: 0.126208, Relative SD: 12.0449

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 210408D1_1	0.250	0.88	NO	27.06	1.001	4.27e2	1.42e5	0.287	14.8	1.20	MM
2 210408D1_2	0.500	0.78	NO	27.06	1.001	7.83e2	1.51e5	0.496	-0.8	1.04	MM
3 210408D1_3	2.00	0.72	NO	27.08	1.001	2.56e3	1.47e5	1.66	-17.0	0.869	MM
4 210408D1_4	10.0	0.77	NO	27.09	1.001	1.12e4	1.19e5	8.96	-10.4	0.939	bb
5 210408D1_5	40.0	0.80	NO	27.06	1.001	6.05e4	1.39e5	41.5	3.6	1.09	bb
6 210408D1_6	300	0.80	NO	27.08	1.001	4.13e5	1.20e5	329	9.8	1.15	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.881285

RRF SD: 0.100292, Relative SD: 11.3802

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 210408D1_1	1.25	0.65	NO	31.21	1.001	1.21e3	1.07e5	1.28	2.6	0.904	db
2 210408D1_2	2.50	0.62	NO	31.21	1.000	2.49e3	1.18e5	2.40	-4.2	0.845	MM
3 210408D1_3	10.0	0.59	NO	31.23	1.001	8.07e3	1.10e5	8.32	-16.8	0.733	db
4 210408D1_4	50.0	0.60	NO	31.25	1.000	3.65e4	8.84e4	46.9	-6.2	0.827	bb
5 210408D1_5	200	0.61	NO	31.21	1.001	2.18e5	1.11e5	223	11.4	0.982	bb
6 210408D1_6	1500	0.62	NO	31.23	1.001	1.47e6	9.84e4	1700	13.2	0.997	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

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Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.14289

RRF SD: 0.119907, Relative SD: 10.4916

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	210408D1_1	1.25	1.32	NO	34.69	1.001	1.14e3	8.27e4	1.21	-3.1	1.11	MM
2	210408D1_2	2.50	1.21	NO	34.67	1.000	2.53e3	8.83e4	2.51	0.4	1.15	MM
3	210408D1_3	10.0	1.33	NO	34.70	1.000	7.87e3	8.10e4	8.50	-15.0	0.972	dd
4	210408D1_4	50.0	1.30	NO	34.69	1.001	3.57e4	6.64e4	47.1	-5.9	1.08	dd
5	210408D1_5	200	1.29	NO	34.71	1.001	2.09e5	8.27e4	221	10.6	1.26	bd
6	210408D1_6	1500	1.26	NO	34.69	1.001	1.48e6	7.66e4	1700	13.1	1.29	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 1.01079

RRF SD: 0.115255, Relative SD: 11.4024

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	210408D1_1	1.25	1.37	NO	34.82	1.001	1.15e3	9.49e4	1.20	-3.9	0.972	MM
2	210408D1_2	2.50	1.24	NO	34.81	1.000	2.36e3	9.75e4	2.40	-4.0	0.970	db
3	210408D1_3	10.0	1.25	NO	34.84	1.000	7.83e3	8.95e4	8.65	-13.5	0.874	db
4	210408D1_4	50.0	1.22	NO	34.82	1.000	3.55e4	7.49e4	46.9	-6.2	0.949	db
5	210408D1_5	200	1.25	NO	34.84	1.000	2.04e5	9.10e4	222	10.9	1.12	db
6	210408D1_6	1500	1.27	NO	34.81	1.000	1.46e6	8.27e4	1750	16.7	1.18	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 1.01937

RRF SD: 0.118453, Relative SD: 11.6201

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	210408D1_1	1.25	1.36	NO	35.13	1.001	1.12e3	9.05e4	1.21	-2.9	0.990	MM
2	210408D1_2	2.50	1.29	NO	35.13	1.000	2.27e3	9.79e4	2.27	-9.1	0.927	MM

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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210408D1_3	10.0	1.23	NO	35.15	1.000	8.22e3	9.20e4	8.77	-12.3	0.894	bb
4	210408D1_4	50.0	1.28	NO	35.13	1.000	3.56e4	7.31e4	47.8	-4.4	0.975	bb
5	210408D1_5	200	1.27	NO	35.15	1.000	2.08e5	9.05e4	226	12.8	1.15	bb
6	210408D1_6	1500	1.26	NO	35.13	1.001	1.50e6	8.47e4	1740	15.8	1.18	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 1.06502

RRF SD: 0.107328, Relative SD: 10.0775

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	210408D1_1	1.25	1.02	NO	38.63	1.000	9.55e2	7.20e4	1.24	-0.4	1.06	MM
2	210408D1_2	2.50	1.09	NO	38.49	1.001	2.15e3	8.55e4	2.36	-5.7	1.00	bb
3	210408D1_3	10.0	1.00	NO	38.59	1.001	6.73e3	7.26e4	8.71	-12.9	0.928	MM
4	210408D1_4	50.0	1.03	NO	38.58	1.001	2.97e4	5.83e4	47.8	-4.4	1.02	bb
5	210408D1_5	200	1.05	NO	38.51	1.000	1.73e5	7.44e4	218	9.2	1.16	bb
6	210408D1_6	1500	1.05	NO	38.54	1.000	1.27e6	6.95e4	1710	14.3	1.22	bb

Compound name: OCDD

Response Factor: 1.00216

RRF SD: 0.101836, Relative SD: 10.1617

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	210408D1_1	2.50	0.87	NO	42.24	1.001	1.50e3	1.20e5	2.48	-0.7	0.995	MM
2	210408D1_2	5.00	0.95	NO	42.14	1.001	2.94e3	1.26e5	4.65	-7.0	0.932	MM
3	210408D1_3	20.0	0.92	NO	42.34	1.000	9.83e3	1.11e5	17.7	-11.7	0.885	bd
4	210408D1_4	100	0.92	NO	42.39	1.000	4.22e4	8.73e4	96.4	-3.6	0.966	bb
5	210408D1_5	400	0.87	NO	42.16	1.000	2.46e5	1.16e5	425	6.2	1.06	bb
6	210408D1_6	3000	0.89	NO	42.18	1.000	1.91e6	1.09e5	3500	16.7	1.17	bb

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

Response Factor: 0.863699

RRF SD: 0.0964992, Relative SD: 11.1728

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	210408D1_1	0.250	0.80	NO	26.49	1.001	4.18e2	2.20e5	0.220	-12.2	0.758	MM
2	210408D1_2	0.500	0.72	NO	26.48	1.001	9.99e2	2.32e5	0.499	-0.2	0.862	MM
3	210408D1_3	2.00	0.76	NO	26.51	1.001	3.46e3	2.24e5	1.79	-10.7	0.771	bb
4	210408D1_4	10.0	0.78	NO	26.51	1.001	1.51e4	1.78e5	9.85	-1.5	0.850	db
5	210408D1_5	40.0	0.76	NO	26.49	1.001	8.09e4	2.19e5	42.8	7.0	0.924	bb
6	210408D1_6	300	0.76	NO	26.49	1.001	5.44e5	1.79e5	353	17.6	1.02	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.948429

RRF SD: 0.115422, Relative SD: 12.1698

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	210408D1_1	1.25	1.59	NO	30.08	1.001	1.75e3	1.62e5	1.14	-9.1	0.862	MM
2	210408D1_2	2.50	1.59	NO	30.08	1.000	4.02e3	1.74e5	2.44	-2.6	0.924	bb
3	210408D1_3	10.0	1.65	NO	30.10	1.001	1.30e4	1.61e5	8.50	-15.0	0.806	bb
4	210408D1_4	50.0	1.67	NO	30.10	1.001	5.90e4	1.27e5	48.8	-2.3	0.926	bb
5	210408D1_5	200	1.58	NO	30.08	1.001	3.41e5	1.59e5	227	13.3	1.07	bb
6	210408D1_6	1500	1.58	NO	30.10	1.001	2.30e6	1.40e5	1730	15.6	1.10	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 1.03773

RRF SD: 0.148071, Relative SD: 14.2688

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	210408D1_1	1.25	1.44	NO	31.03	1.000	2.06e3	1.62e5	1.23	-1.9	1.02	MM
2	210408D1_2	2.50	1.53	NO	31.05	1.001	3.83e3	1.69e5	2.18	-12.9	0.904	bb

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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	210408D1_3	10.0	1.51	NO	31.05	1.001	1.40e4	1.60e5	8.42	-15.8	0.874	bb
4	210408D1_4	50.0	1.65	NO	31.09	1.001	6.35e4	1.27e5	48.2	-3.6	1.00	bb
5	210408D1_5	200	1.62	NO	31.03	1.000	3.65e5	1.50e5	234	17.1	1.22	bb
6	210408D1_6	1500	1.60	NO	31.05	1.001	2.53e6	1.39e5	1760	17.1	1.22	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 1.043

RRF SD: 0.0977631, Relative SD: 9.37325

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	210408D1_1	1.25	1.27	NO	33.70	1.001	1.56e3	1.26e5	1.19	-5.0	0.990	bd
2	210408D1_2	2.50	1.28	NO	33.69	1.000	3.48e3	1.38e5	2.41	-3.6	1.01	MM
3	210408D1_3	10.0	1.25	NO	33.69	1.000	1.19e4	1.29e5	8.85	-11.5	0.923	bd
4	210408D1_4	50.0	1.25	NO	33.69	1.000	5.27e4	1.04e5	48.7	-2.7	1.02	bd
5	210408D1_5	200	1.24	NO	33.69	1.001	2.93e5	1.27e5	221	10.5	1.15	bd
6	210408D1_6	1500	1.22	NO	33.70	1.000	2.01e6	1.15e5	1690	12.3	1.17	dd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 1.07422

RRF SD: 0.100505, Relative SD: 9.35605

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	210408D1_1	1.25	1.22	NO	33.83	1.000	1.70e3	1.35e5	1.18	-6.0	1.01	db
2	210408D1_2	2.50	1.26	NO	33.83	1.001	3.62e3	1.43e5	2.36	-5.4	1.02	MM
3	210408D1_3	10.0	1.23	NO	33.84	1.000	1.26e4	1.30e5	9.05	-9.5	0.973	db
4	210408D1_4	50.0	1.22	NO	33.84	1.001	5.56e4	1.06e5	48.7	-2.5	1.05	db
5	210408D1_5	200	1.25	NO	33.83	1.000	3.14e5	1.32e5	221	10.4	1.19	db
6	210408D1_6	1500	1.23	NO	33.85	1.001	2.13e6	1.17e5	1700	13.0	1.21	db

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 1.11712

RRF SD: 0.120058, Relative SD: 10.7471

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	:210408D1_1	1.25	1.31	NO	34.57	1.001	1.59e3	1.25e5	1.13	-9.3	1.01	MM
2	:210408D1_2	2.50	1.21	NO	34.56	1.001	3.57e3	1.29e5	2.48	-0.9	1.11	MM
3	:210408D1_3	10.0	1.23	NO	34.59	1.001	1.18e4	1.21e5	8.72	-12.8	0.975	bb
4	:210408D1_4	50.0	1.24	NO	34.56	1.001	5.30e4	9.69e4	48.9	-2.1	1.09	bb
5	:210408D1_5	200	1.22	NO	34.58	1.000	2.94e5	1.19e5	221	10.7	1.24	bb
6	:210408D1_6	1500	1.22	NO	34.58	1.001	2.03e6	1.06e5	1720	14.4	1.28	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 1.09872

RRF SD: 0.096484, Relative SD: 8.78148

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	:210408D1_1	1.25	1.19	NO	35.71	1.001	1.52e3	1.09e5	1.27	1.8	1.12	MM
2	:210408D1_2	2.50	1.26	NO	35.69	1.001	3.15e3	1.21e5	2.38	-5.0	1.04	MM
3	:210408D1_3	10.0	1.26	NO	35.73	1.000	1.05e4	1.09e5	8.76	-12.4	0.962	bb
4	:210408D1_4	50.0	1.22	NO	35.69	1.001	4.59e4	8.67e4	48.2	-3.7	1.06	bb
5	:210408D1_5	200	1.25	NO	35.72	1.000	2.60e5	1.09e5	216	8.2	1.19	bb
6	:210408D1_6	1500	1.23	NO	35.69	1.001	1.79e6	9.77e4	1670	11.0	1.22	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 1.15992

RRF SD: 0.132948, Relative SD: 11.4619

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	:210408D1_1	1.25	1.06	NO	37.28	1.000	1.31e3	9.30e4	1.21	-3.2	1.12	MM
2	:210408D1_2	2.50	1.06	NO	37.25	1.000	2.80e3	1.04e5	2.32	-7.1	1.08	MM

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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	210408D1_3	10.0	1.07	NO	37.31	1.000	9.36e3	9.20e4	8.77	-12.3	1.02	bb
4	210408D1_4	50.0	1.03	NO	37.29	1.001	4.11e4	7.46e4	47.4	-5.2	1.10	bb
5	210408D1_5	200	1.02	NO	37.28	1.000	2.36e5	9.26e4	220	9.8	1.27	bb
6	210408D1_6	1500	1.02	NO	37.30	1.001	1.70e6	8.30e4	1770	18.0	1.37	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.18693

RRF SD: 0.12561, Relative SD: 10.5828

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	210408D1_1	1.25	1.13	NO	39.43	1.001	1.12e3	7.54e4	1.25	0.2	1.19	MM
2	210408D1_2	2.50	1.05	NO	39.25	1.001	2.43e3	8.59e4	2.39	-4.5	1.13	MM
3	210408D1_3	10.0	0.99	NO	39.35	1.001	8.02e3	7.71e4	8.76	-12.4	1.04	bb
4	210408D1_4	50.0	1.04	NO	39.37	1.001	3.42e4	6.24e4	46.2	-7.7	1.10	bb
5	210408D1_5	200	1.00	NO	39.25	1.000	2.04e5	7.92e4	217	8.3	1.28	bb
6	210408D1_6	1500	1.02	NO	39.27	1.000	1.46e6	7.07e4	1740	16.1	1.38	bb

Compound name: OCDF

Response Factor: 0.908617

RRF SD: 0.0987277, Relative SD: 10.8657

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	210408D1_1	2.50	0.90	NO	42.59	1.001	1.82e3	1.72e5	2.32	-7.1	0.844	MM
2	210408D1_2	5.00	0.89	NO	42.48	1.000	3.97e3	1.71e5	5.10	1.9	0.926	MM
3	210408D1_3	20.0	0.88	NO	42.67	1.000	1.26e4	1.57e5	17.6	-12.0	0.800	bb
4	210408D1_4	100	0.90	NO	42.72	1.000	5.31e4	1.26e5	92.5	-7.5	0.840	bb
5	210408D1_5	400	0.89	NO	42.51	1.000	3.14e5	1.59e5	434	8.5	0.986	bd
6	210408D1_6	3000	0.88	NO	42.57	1.000	2.34e6	1.48e5	3490	16.2	1.06	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.14528
 RRF SD: 0.0371114, Relative SD: 3.24037
 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	210408D1_1	100	0.79	NO	27.04	1.024	1.42e5	1.20e5	103	3.2	1.18	bb
2	210408D1_2	100	0.83	NO	27.04	1.024	1.51e5	1.36e5	96.7	-3.3	1.11	bb
3	210408D1_3	100	0.75	NO	27.06	1.024	1.47e5	1.29e5	99.8	-0.2	1.14	bb
4	210408D1_4	100	0.76	NO	27.08	1.025	1.19e5	1.04e5	100	-0.0	1.15	bb
5	210408D1_5	100	0.74	NO	27.04	1.024	1.39e5	1.26e5	96.2	-3.8	1.10	bb
6	210408D1_6	100	0.79	NO	27.06	1.025	1.20e5	1.00e5	104	4.1	1.19	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.886818
 RRF SD: 0.0484476, Relative SD: 5.46308
 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	210408D1_1	100	0.62	NO	31.19	1.181	1.07e5	1.20e5	101	0.5	0.891	bb
2	210408D1_2	100	0.62	NO	31.21	1.182	1.18e5	1.36e5	97.8	-2.2	0.867	bb
3	210408D1_3	100	0.61	NO	31.21	1.181	1.10e5	1.29e5	96.2	-3.8	0.853	bb
4	210408D1_4	100	0.61	NO	31.25	1.183	8.84e4	1.04e5	96.0	-4.0	0.852	bb
5	210408D1_5	100	0.60	NO	31.19	1.181	1.11e5	1.26e5	98.8	-1.2	0.877	bb
6	210408D1_6	100	0.61	NO	31.21	1.182	9.84e4	1.00e5	111	10.6	0.981	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.645267
 RRF SD: 0.0375751, Relative SD: 5.82319
 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	210408D1_1	100	1.29	NO	34.66	1.015	8.27e4	1.27e5	101	0.7	0.650	bd
2	210408D1_2	100	1.29	NO	34.66	1.015	8.83e4	1.41e5	97.2	-2.8	0.628	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	210408D1_3	100	1.28	NO	34.70	1.015	8.10e4	1.32e5	95.3	-4.7	0.615	bd
4	210408D1_4	100	1.28	NO	34.66	1.015	6.64e4	1.06e5	97.2	-2.8	0.627	bd
5	210408D1_5	100	1.26	NO	34.69	1.015	8.27e4	1.31e5	98.1	-1.9	0.633	bd
6	210408D1_6	100	1.30	NO	34.66	1.015	7.66e4	1.07e5	111	11.3	0.718	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 0.716532

RRF SD: 0.0366683, Relative SD: 5.11746

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	210408D1_1	100	1.33	NO	34.80	1.019	9.49e4	1.27e5	104	4.1	0.746	dd
2	210408D1_2	100	1.27	NO	34.80	1.019	9.75e4	1.41e5	96.7	-3.3	0.693	db
3	210408D1_3	100	1.25	NO	34.83	1.019	8.95e4	1.32e5	94.9	-5.1	0.680	db
4	210408D1_4	100	1.27	NO	34.81	1.019	7.49e4	1.06e5	98.8	-1.2	0.708	db
5	210408D1_5	100	1.32	NO	34.83	1.019	9.10e4	1.31e5	97.3	-2.7	0.697	db
6	210408D1_6	100	1.26	NO	34.80	1.018	8.27e4	1.07e5	108	8.2	0.776	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.713984

RRF SD: 0.0403019, Relative SD: 5.64465

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	210408D1_1	100	1.33	NO	35.09	1.027	9.05e4	1.27e5	99.6	-0.4	0.711	dd
2	210408D1_2	100	1.23	NO	35.11	1.029	9.79e4	1.41e5	97.4	-2.6	0.695	bb
3	210408D1_3	100	1.33	NO	35.14	1.028	9.20e4	1.32e5	97.8	-2.2	0.698	bb
4	210408D1_4	100	1.27	NO	35.11	1.028	7.31e4	1.06e5	96.8	-3.2	0.691	bb
5	210408D1_5	100	1.31	NO	35.14	1.028	9.05e4	1.31e5	97.1	-2.9	0.693	bb
6	210408D1_6	100	1.25	NO	35.10	1.027	8.47e4	1.07e5	111	11.3	0.795	bb

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

Response Factor: 0.583223

RRF SD: 0.0396778, Relative SD: 6.8032

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	210408D1_1	100	1.07	NO	38.62	1.131	7.20e4	1.27e5	97.1	-2.9	0.566	bd
2	210408D1_2	100	1.05	NO	38.47	1.127	8.55e4	1.41e5	104	4.1	0.607	bd
3	210408D1_3	100	1.04	NO	38.57	1.129	7.26e4	1.32e5	94.5	-5.5	0.551	bb
4	210408D1_4	100	1.04	NO	38.56	1.128	5.83e4	1.06e5	94.6	-5.4	0.552	bb
5	210408D1_5	100	1.04	NO	38.50	1.127	7.44e4	1.31e5	97.8	-2.2	0.570	bb
6	210408D1_6	100	1.08	NO	38.53	1.128	6.95e4	1.07e5	112	11.9	0.653	bd

Compound name: 13C-OCDD

Response Factor: 0.451337

RRF SD: 0.0358226, Relative SD: 7.937

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	210408D1_1	200	0.89	NO	42.20	1.235	1.20e5	1.27e5	209	4.6	0.472	bb
2	210408D1_2	200	0.88	NO	42.10	1.233	1.26e5	1.41e5	198	-0.8	0.448	bb
3	210408D1_3	200	0.88	NO	42.34	1.239	1.11e5	1.32e5	187	-6.6	0.422	bb
4	210408D1_4	200	0.90	NO	42.39	1.241	8.73e4	1.06e5	183	-8.5	0.413	bb
5	210408D1_5	200	0.88	NO	42.14	1.233	1.16e5	1.31e5	196	-1.9	0.443	bb
6	210408D1_6	200	0.93	NO	42.16	1.234	1.09e5	1.07e5	226	13.2	0.511	MM

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.09059

RRF SD: 0.0307934, Relative SD: 2.82355

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	210408D1_1	100	0.77	NO	26.46	1.002	2.20e5	1.98e5	102	1.9	1.11	bb
2	210408D1_2	100	0.75	NO	26.46	1.002	2.32e5	2.20e5	96.5	-3.5	1.05	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
210408D1_3	100	0.76	NO	26.49	1.003	2.24e5	2.03e5	101	1.3	1.11	bb
210408D1_4	100	0.78	NO	26.49	1.003	1.78e5	1.68e5	97.2	-2.8	1.06	bb
210408D1_5	100	0.77	NO	26.46	1.002	2.19e5	2.02e5	99.3	-0.7	1.08	bb
210408D1_6	100	0.74	NO	26.48	1.003	1.79e5	1.58e5	104	3.8	1.13	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.804615

RRF SD: 0.0435909, Relative SD: 5.41761

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
210408D1_1	100	1.65	NO	30.06	1.139	1.62e5	1.98e5	102	1.6	0.817	bb
210408D1_2	100	1.60	NO	30.08	1.139	1.74e5	2.20e5	98.3	-1.7	0.791	dd
210408D1_3	100	1.59	NO	30.08	1.139	1.61e5	2.03e5	98.3	-1.7	0.791	bb
210408D1_4	100	1.58	NO	30.08	1.139	1.27e5	1.68e5	94.2	-5.8	0.758	bb
210408D1_5	100	1.60	NO	30.06	1.139	1.59e5	2.02e5	97.6	-2.4	0.785	bb
210408D1_6	100	1.59	NO	30.08	1.139	1.40e5	1.58e5	110	10.0	0.885	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.791751

RRF SD: 0.0495011, Relative SD: 6.25211

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
210408D1_1	100	1.61	NO	31.03	1.175	1.62e5	1.98e5	103	3.2	0.817	bb
210408D1_2	100	1.63	NO	31.03	1.175	1.69e5	2.20e5	97.2	-2.8	0.770	bb
210408D1_3	100	1.61	NO	31.03	1.175	1.60e5	2.03e5	99.3	-0.7	0.786	bb
210408D1_4	100	1.56	NO	31.07	1.176	1.27e5	1.68e5	95.4	-4.6	0.756	bb
210408D1_5	100	1.58	NO	31.03	1.175	1.50e5	2.02e5	93.9	-6.1	0.744	bb
210408D1_6	100	1.59	NO	31.03	1.175	1.39e5	1.58e5	111	10.9	0.878	bb

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 0.997312

RRF SD: 0.0381871, Relative SD: 3.829

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	210408D1_1	100	0.49	NO	33.68	0.986	1.26e5	1.27e5	99.2	-0.8	0.990	bd
2	210408D1_2	100	0.50	NO	33.68	0.987	1.38e5	1.41e5	98.6	-1.4	0.983	bd
3	210408D1_3	100	0.50	NO	33.68	0.985	1.29e5	1.32e5	98.2	-1.8	0.979	bd
4	210408D1_4	100	0.50	NO	33.68	0.985	1.04e5	1.06e5	98.4	-1.6	0.981	bd
5	210408D1_5	100	0.49	NO	33.67	0.985	1.27e5	1.31e5	97.8	-2.2	0.976	bd
6	210408D1_6	100	0.50	NO	33.69	0.986	1.15e5	1.07e5	108	7.8	1.07	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.02847

RRF SD: 0.0400304, Relative SD: 3.89221

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	210408D1_1	100	0.50	NO	33.82	0.990	1.35e5	1.27e5	103	2.8	1.06	dd
2	210408D1_2	100	0.50	NO	33.81	0.990	1.43e5	1.41e5	98.5	-1.5	1.01	db
3	210408D1_3	100	0.51	NO	33.83	0.990	1.30e5	1.32e5	96.0	-4.0	0.987	db
4	210408D1_4	100	0.51	NO	33.82	0.990	1.06e5	1.06e5	97.7	-2.3	1.01	db
5	210408D1_5	100	0.52	NO	33.82	0.990	1.32e5	1.31e5	98.5	-1.5	1.01	db
6	210408D1_6	100	0.50	NO	33.83	0.990	1.17e5	1.07e5	106	6.5	1.10	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 0.939728

RRF SD: 0.0378274, Relative SD: 4.02535

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	210408D1_1	100	0.49	NO	34.54	1.011	1.25e5	1.27e5	105	4.8	0.984	bb
2	210408D1_2	100	0.52	NO	34.54	1.012	1.29e5	1.41e5	97.4	-2.6	0.916	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

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 Printed: Friday, April 09, 2021 14:24:20 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	210408D1_3	100	0.49	NO	34.56	1.012	1.21e5	1.32e5	97.8	-2.2	0.919	bb
4	210408D1_4	100	0.51	NO	34.54	1.011	9.69e4	1.06e5	97.5	-2.5	0.916	bb
5	210408D1_5	100	0.51	NO	34.56	1.012	1.19e5	1.31e5	97.0	-3.0	0.911	bb
6	210408D1_6	100	0.50	NO	34.55	1.011	1.06e5	1.07e5	106	5.6	0.992	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.852317

RRF SD: 0.034932, Relative SD: 4.09847

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	210408D1_1	100	0.52	NO	35.69	1.045	1.09e5	1.27e5	100	0.4	0.856	bb
2	210408D1_2	100	0.50	NO	35.66	1.045	1.21e5	1.41e5	101	0.5	0.857	bd
3	210408D1_3	100	0.51	NO	35.72	1.045	1.09e5	1.32e5	97.2	-2.8	0.828	bb
4	210408D1_4	100	0.50	NO	35.67	1.044	8.67e4	1.06e5	96.2	-3.8	0.820	bb
5	210408D1_5	100	0.52	NO	35.71	1.045	1.09e5	1.31e5	98.2	-1.8	0.837	bb
6	210408D1_6	100	0.50	NO	35.66	1.044	9.77e4	1.07e5	108	7.6	0.917	bb

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

Response Factor: 0.726905

RRF SD: 0.0296006, Relative SD: 4.07214

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	210408D1_1	100	0.40	NO	37.27	1.091	9.30e4	1.27e5	101	0.6	0.731	bb
2	210408D1_2	100	0.40	NO	37.24	1.091	1.04e5	1.41e5	102	1.5	0.738	bb
3	210408D1_3	100	0.41	NO	37.30	1.092	9.20e4	1.32e5	96.1	-3.9	0.699	bb
4	210408D1_4	100	0.41	NO	37.27	1.091	7.46e4	1.06e5	97.1	-2.9	0.706	bb
5	210408D1_5	100	0.42	NO	37.27	1.091	9.26e4	1.31e5	97.6	-2.4	0.710	bb
6	210408D1_6	100	0.42	NO	37.28	1.091	8.30e4	1.07e5	107	7.1	0.779	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

Last Altered: Friday, April 09, 2021 07:54:40 Pacific Daylight Time
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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.607947
 RRF SD: 0.0286797, Relative SD: 4.71747
 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	210408D1_1	100	0.43	NO	39.41	1.154	7.54e4	1.27e5	97.4	-2.6	0.592	bb
2	210408D1_2	100	0.42	NO	39.21	1.149	8.59e4	1.41e5	100	0.4	0.610	bd
3	210408D1_3	100	0.41	NO	39.32	1.151	7.71e4	1.32e5	96.3	-3.7	0.585	bd
4	210408D1_4	100	0.40	NO	39.35	1.151	6.24e4	1.06e5	97.0	-3.0	0.590	bb
5	210408D1_5	100	0.41	NO	39.24	1.148	7.92e4	1.31e5	99.8	-0.2	0.607	bb
6	210408D1_6	100	0.41	NO	39.26	1.149	7.07e4	1.07e5	109	9.0	0.663	bb

Compound name: 13C-OCDF

Response Factor: 0.630796
 RRF SD: 0.0428508, Relative SD: 6.79313
 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	210408D1_1	200	0.90	NO	42.56	1.246	1.72e5	1.27e5	215	7.3	0.677	bb
2	210408D1_2	200	0.90	NO	42.47	1.244	1.71e5	1.41e5	193	-3.6	0.608	bb
3	210408D1_3	200	0.87	NO	42.64	1.248	1.57e5	1.32e5	190	-5.2	0.598	bb
4	210408D1_4	200	0.89	NO	42.71	1.250	1.26e5	1.06e5	189	-5.3	0.597	bb
5	210408D1_5	200	0.88	NO	42.51	1.244	1.59e5	1.31e5	194	-3.2	0.611	bd
6	210408D1_6	200	0.89	NO	42.57	1.246	1.48e5	1.07e5	220	10.0	0.694	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 2.21891
 RRF SD: 0.357843, Relative SD: 16.127
 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	210408D1_1	0.250			27.06	1.025	8.33e2	1.20e5	0.312	24.9	2.77	bb
2	210408D1_2	0.500			27.06	1.025	1.50e3	1.36e5	0.496	-0.8	2.20	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

Last Altered: Friday, April 09, 2021 07:54:40 Pacific Daylight Time

Printed: Friday, April 09, 2021 14:24:20 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 210408D1_3	2.00			27.08	1.025	4.47e3	1.29e5	1.56	-21.8	1.73	bb
4 210408D1_4	10.0			27.09	1.026	2.07e4	1.04e5	8.98	-10.2	1.99	bd
5 210408D1_5	40.0			27.06	1.025	1.10e5	1.26e5	39.3	-1.8	2.18	bb
6 210408D1_6	200			27.08	1.026	4.88e5	1.00e5	219	9.7	2.44	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 210408D1_1	100	0.79	NO	26.40	1.000	1.20e5	1.20e5	100	0.0	1.00	bb
2 210408D1_2	100	0.81	NO	26.40	1.000	1.36e5	1.36e5	100	0.0	1.00	bb
3 210408D1_3	100	0.79	NO	26.42	1.000	1.29e5	1.29e5	100	0.0	1.00	bb
4 210408D1_4	100	0.82	NO	26.42	1.000	1.04e5	1.04e5	100	0.0	1.00	bb
5 210408D1_5	100	0.75	NO	26.40	1.000	1.26e5	1.26e5	100	0.0	1.00	bb
6 210408D1_6	100	0.75	NO	26.40	1.000	1.00e5	1.00e5	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 210408D1_1	100	0.77	NO	25.18	1.000	1.98e5	1.98e5	100	0.0	1.00	bb
2 210408D1_2	100	0.77	NO	25.18	1.000	2.20e5	2.20e5	100	0.0	1.00	bb
3 210408D1_3	100	0.76	NO	25.19	1.000	2.03e5	2.03e5	100	0.0	1.00	bb
4 210408D1_4	100	0.78	NO	25.21	1.000	1.68e5	1.68e5	100	0.0	1.00	bb
5 210408D1_5	100	0.76	NO	25.18	1.000	2.02e5	2.02e5	100	0.0	1.00	bb
6 210408D1_6	100	0.75	NO	25.18	1.000	1.58e5	1.58e5	100	0.0	1.00	bb

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-CRV.qld

Last Altered: Friday, April 09, 2021 07:54:40 Pacific Daylight Time

Printed: Friday, April 09, 2021 14:24:20 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	210408D1_1	100	0.50	NO	34.16	1.000	1.27e5	1.27e5	100	0.0	1.00	bb
2	210408D1_2	100	0.50	NO	34.14	1.000	1.41e5	1.41e5	100	0.0	1.00	bd
3	210408D1_3	100	0.52	NO	34.17	1.000	1.32e5	1.32e5	100	0.0	1.00	bb
4	210408D1_4	100	0.48	NO	34.17	1.000	1.06e5	1.06e5	100	0.0	1.00	bb
5	210408D1_5	100	0.50	NO	34.17	1.000	1.31e5	1.31e5	100	0.0	1.00	bb
6	210408D1_6	100	0.50	NO	34.17	1.000	1.07e5	1.07e5	100	0.0	1.00	bd

Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:13 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613_rrt_4-6-21.mdb 06 Apr 2021 09:18:07

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

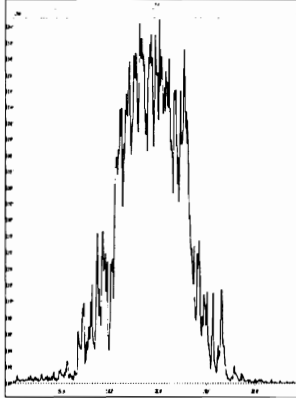
Compound name: 2,3,7,8-TCDD

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3	210408D1_3	ST210408D1-3 1613 CS2 21C0104	08-Apr-21	10:06:35
4	210408D1_4	ST210408D1-4 1613 CS3 21C0105	08-Apr-21	10:53:15
5	210408D1_5	ST210408D1-5 1613 CS4 21C0106	08-Apr-21	11:39:55
6	210408D1_6	ST210408D1-6 1613 CS5 21C0107	08-Apr-21	12:26:34
7	210408D1_7	SS210408D1-1 1613 SSS 21C0108	08-Apr-21	13:21:14
8	210408D1_8	SOLVENT BLANK	08-Apr-21	14:06:53
9	210408D1_9	HRMS-210301-04 RS VIAL 4	08-Apr-21	14:53:31
10	210408D1_10	HRMS-210301-05 RS VIAL 3	08-Apr-21	15:40:10
11	210408D1_11	HRMS-210301-06 RS VIAL 2	08-Apr-21	16:26:50
12	210408D1_12	HRMS-210301-07 RS VIAL 1	08-Apr-21	17:13:28

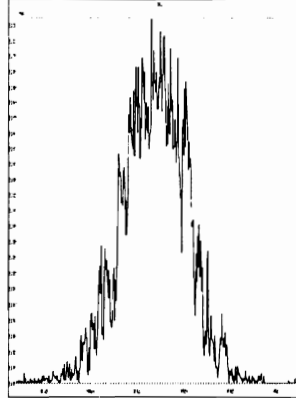
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Printed: Thursday, April 08, 2021 08:23:11 Pacific Daylight Time

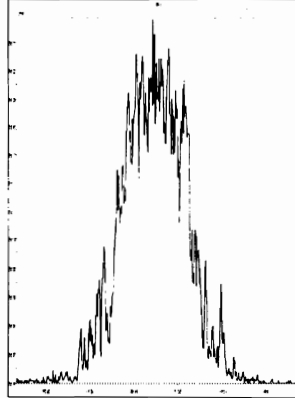
M 292.9824 R 10685



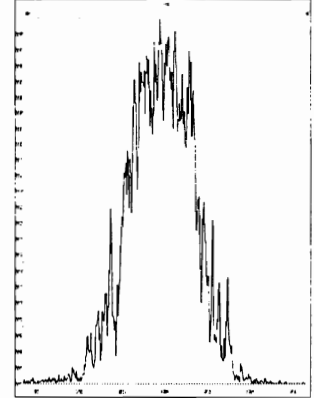
M 304.9824 R 11160



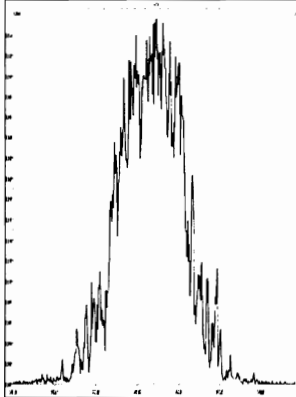
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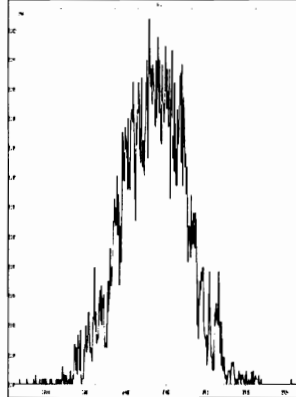
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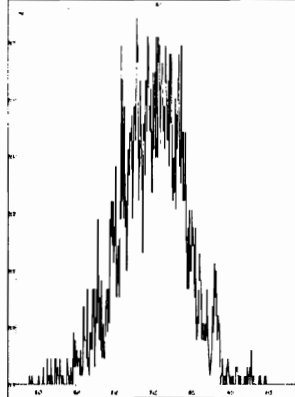
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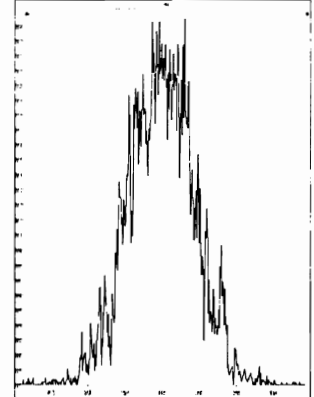
M 354.9792 R 10078



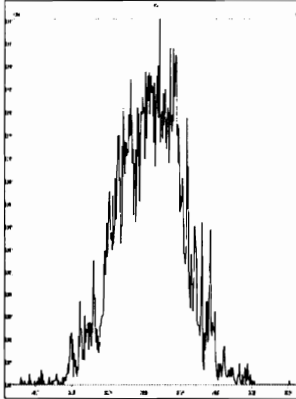
M 366.9792 R 10775



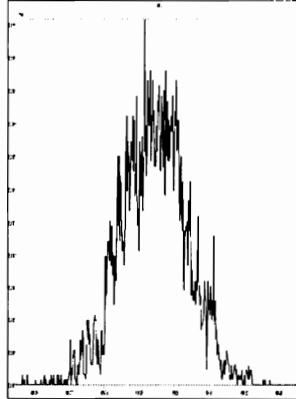
M 380.9760 R 10636



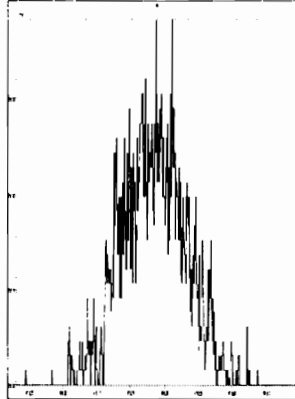
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M 404.9760 R 11736



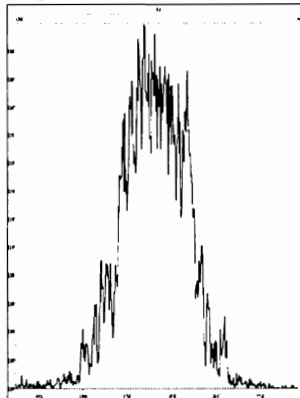
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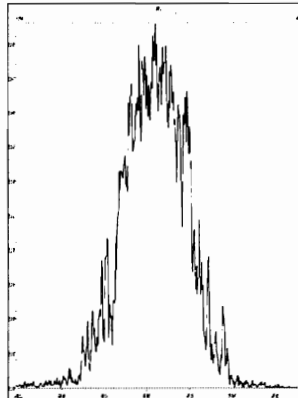
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Printed: Thursday, April 08, 2021 08:24:15 Pacific Daylight Time

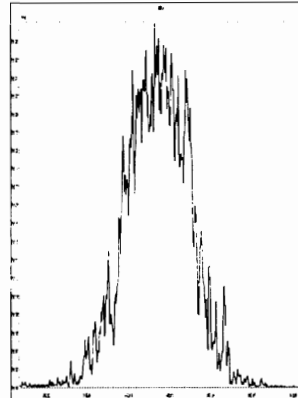
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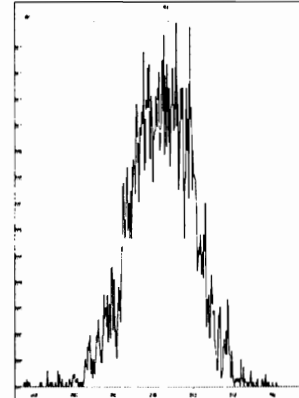
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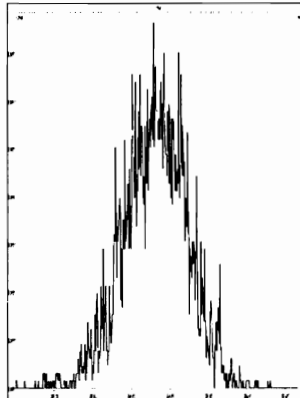
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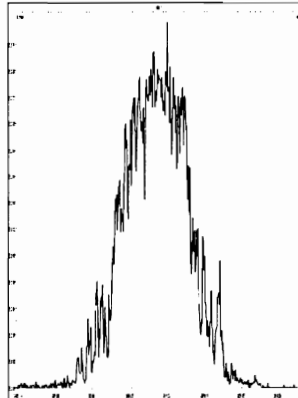
M 354.9792 R 11158



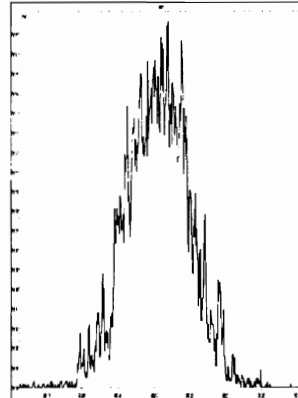
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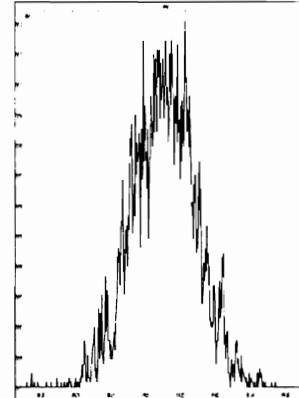
M 380.9760 R 10728



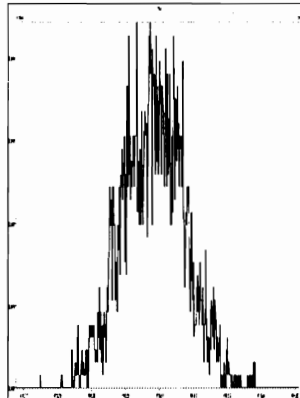
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M 404.9760 R 10683



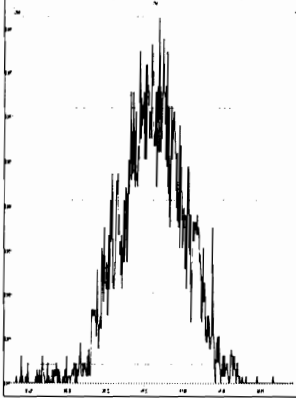
M 416.9760 R 10728



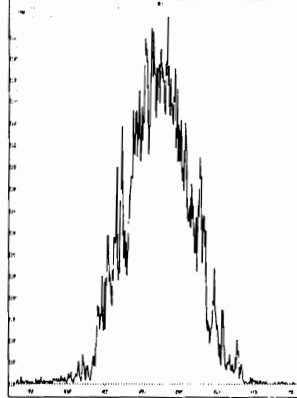
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Printed: Thursday, April 08, 2021 08:25:00 Pacific Daylight Time

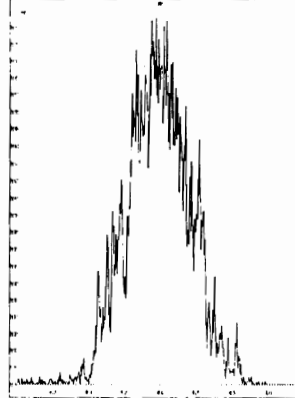
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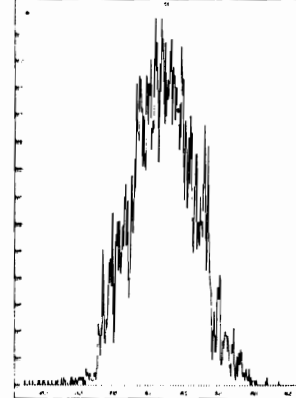
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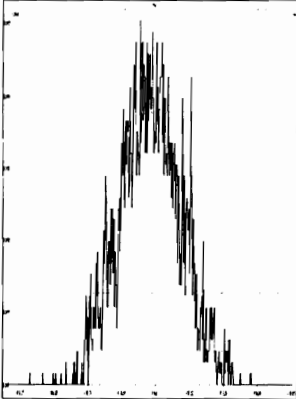
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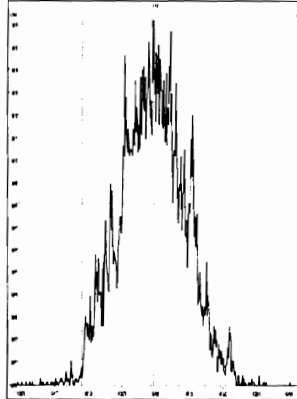
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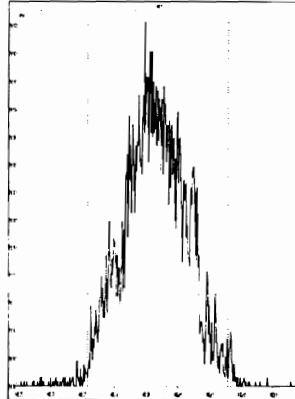
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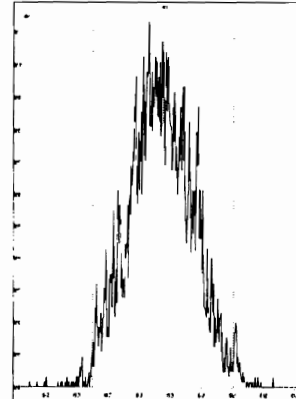
M 430.9728 R 10205



M 442.9728 R 10287



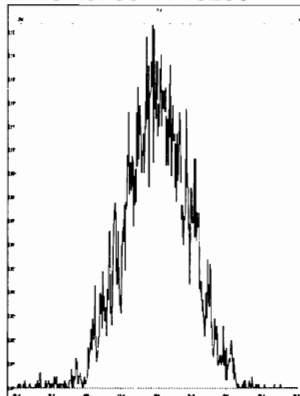
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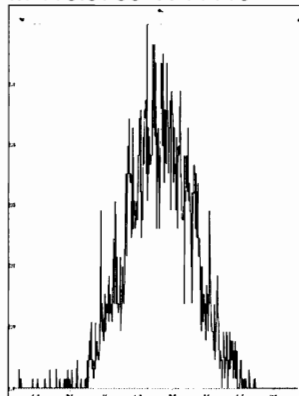
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Printed: Thursday, April 08, 2021 08:25:36 Pacific Daylight Time

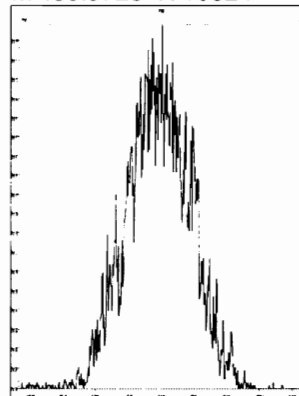
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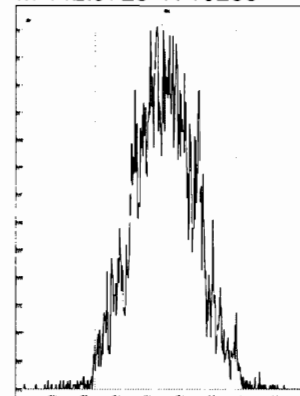
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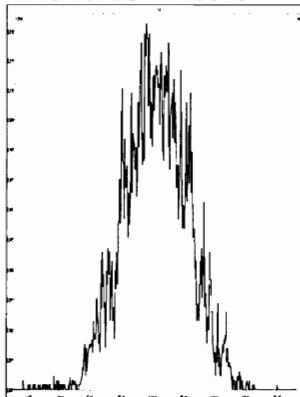
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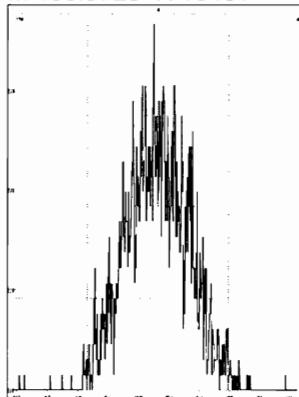
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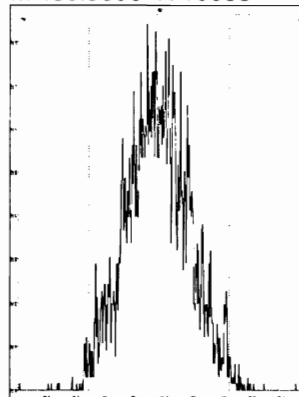
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M 466.9728 R 10461



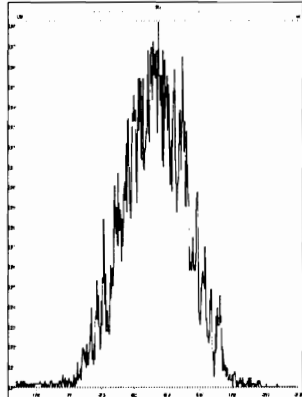
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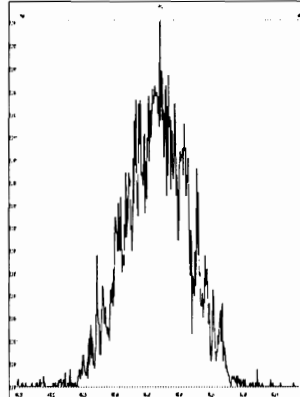
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Printed: Thursday, April 08, 2021 08:26:16 Pacific Daylight Time

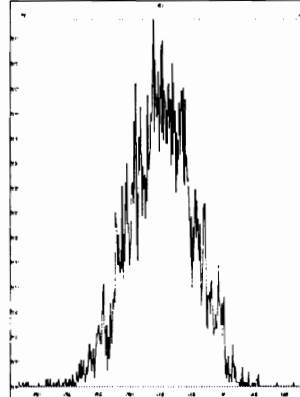
M 430.9728 R 10591



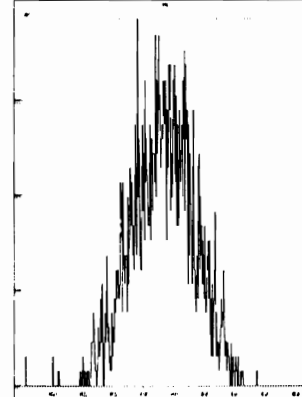
M 442.9728 R 10118



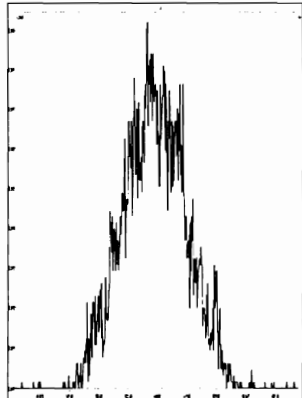
M 454.9728 R 10822



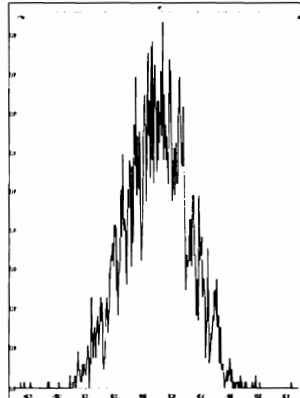
M 466.9728 R 11259



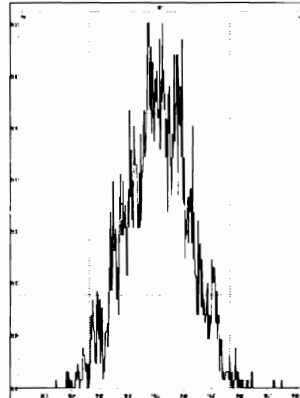
M 480.9696 R 10501



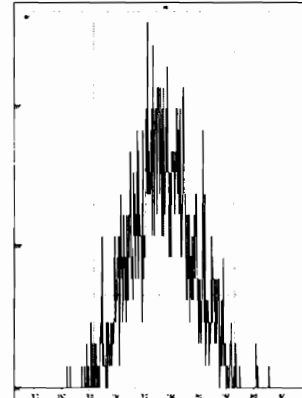
M 492.9696 R 10548



M 504.9696 R 11794



M 516.9697 R 11570



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:07:09 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:07:50 Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 06 Apr 2021 11:04:01

Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210408D1_4, Date: 08-Apr-2021, Time: 10:53:15, ID: ST210408D1-4 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1,3,6,8-TCDD (First)	23.99
2	1,2,8,9-TCDD (Last)	27.85
3	1,2,4,7,9-PeCDD (First)	29.20
4	1,2,3,8,9-PeCDD (Last)	31.57
5	1,2,4,6,7,9-HxCDD (First)	32.91
6	1,2,3,7,8,9-HxCDD (Last)	35.13
7	1,2,3,4,6,7,9-HpCDD (First)	37.61
8	1,2,3,4,6,7,8-HpCDD (Last)	38.58
9	1,3,6,8-TCDF (First)	22.15
10	1,2,8,9-TCDF (Last)	28.13
11	1,3,4,6,8-PeCDF (First)	27.75
12	1,2,3,8,9-PeCDF (Last)	31.93
13	1,2,3,4,6,8-HxCDF (First)	32.35
14	1,2,3,7,8,9-HxCDF (Last)	35.70
15	1,2,3,4,6,7,8-HpCDF (First)	37.29
16	1,2,3,4,7,8,9-HpCDF (Last)	39.37

Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:07:09 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:07:50 Pacific Daylight Time

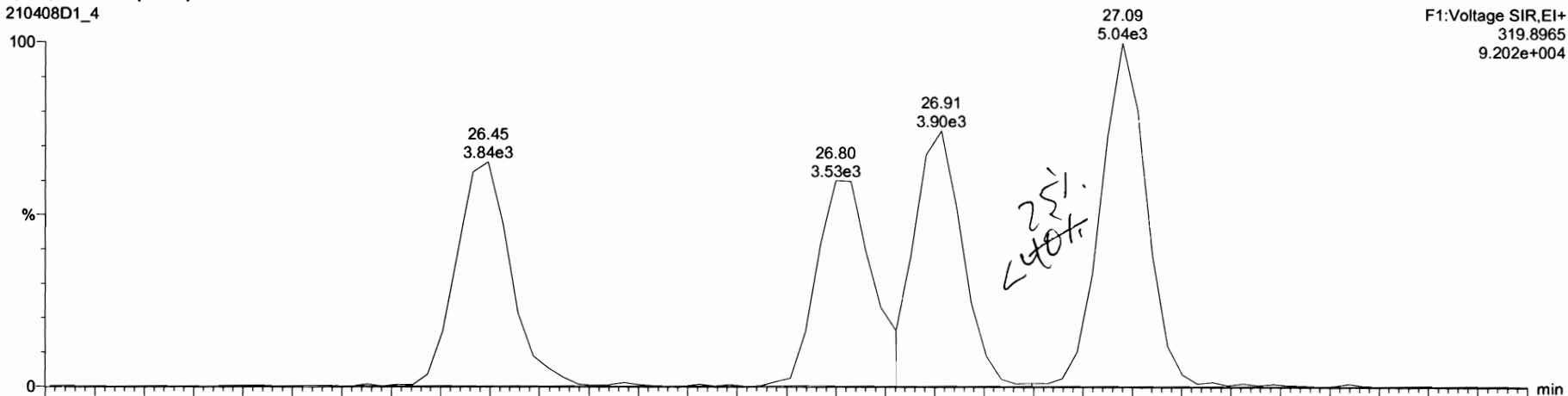
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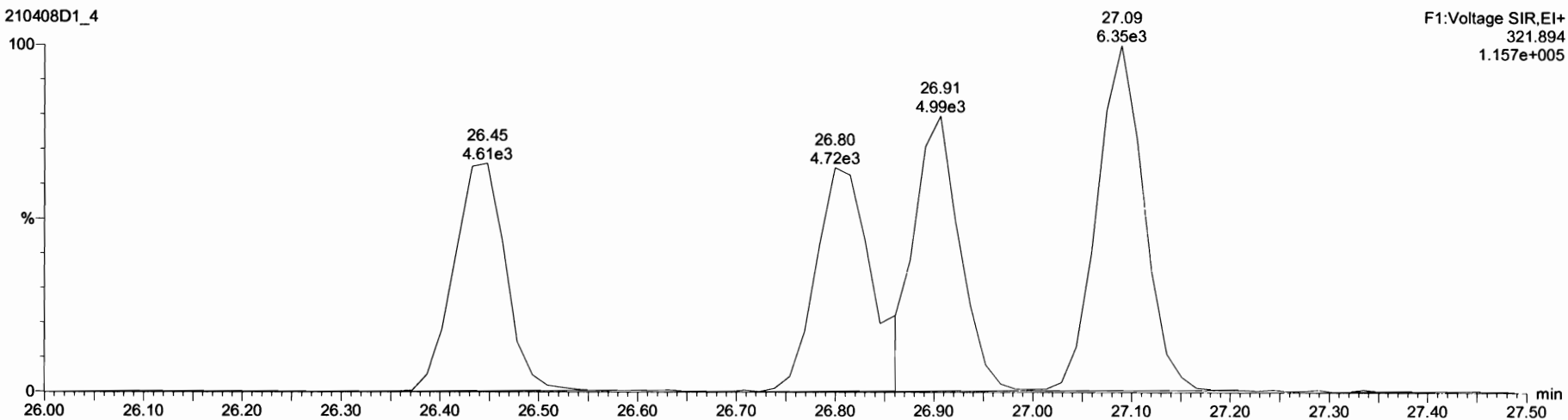
Name: 210408D1_4, Date: 08-Apr-2021, Time: 10:53:15, ID: ST210408D1-4 1613 CS3 21C0105, Description: 1613 CS3 21C0105

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

210408D1_4



210408D1_4



Dataset: Untitled

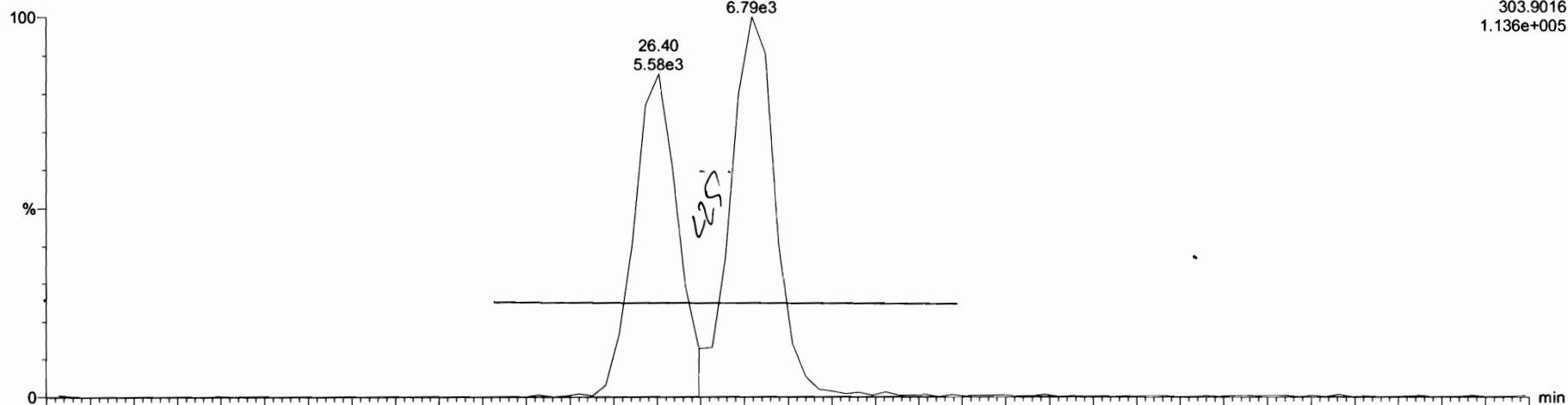
Last Altered: Friday, April 09, 2021 08:07:09 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:07:50 Pacific Daylight Time

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

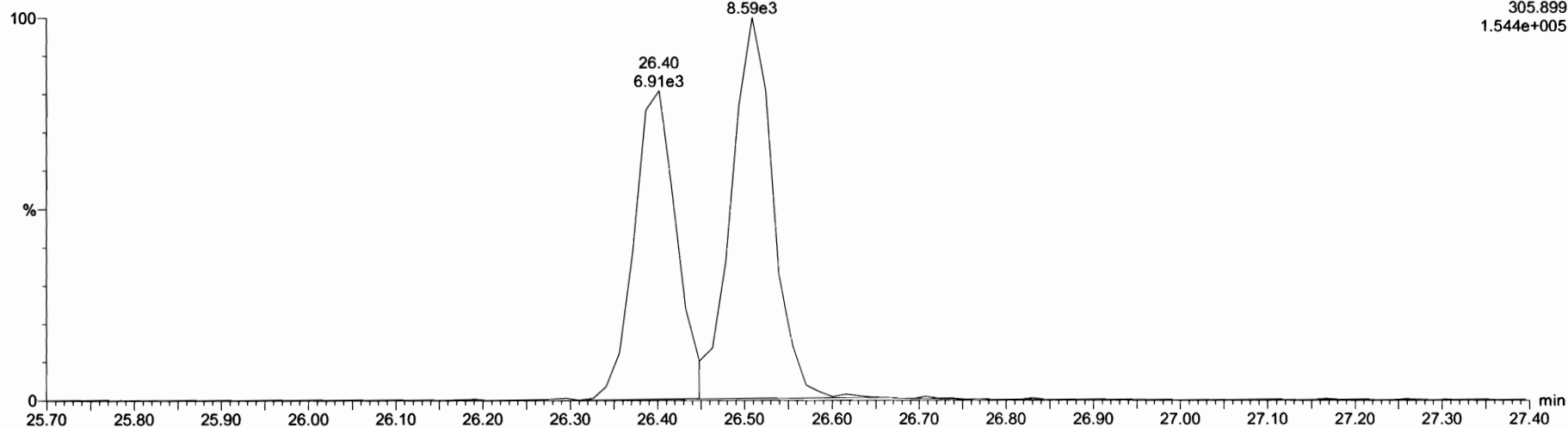
210408D1_4

F1:Voltage SIR,EI+
303.9016
1.136e+005



210408D1_4

F1:Voltage SIR,EI+
305.899
1.544e+005



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

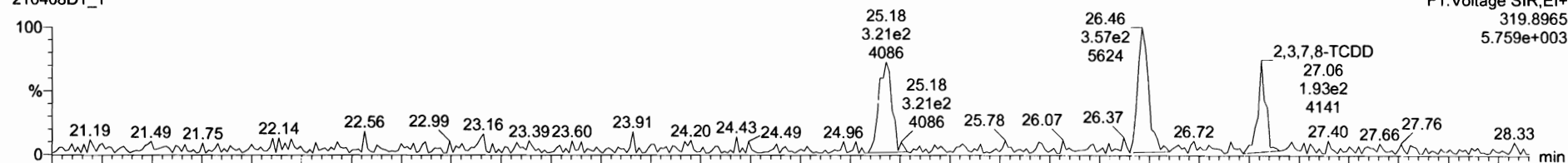
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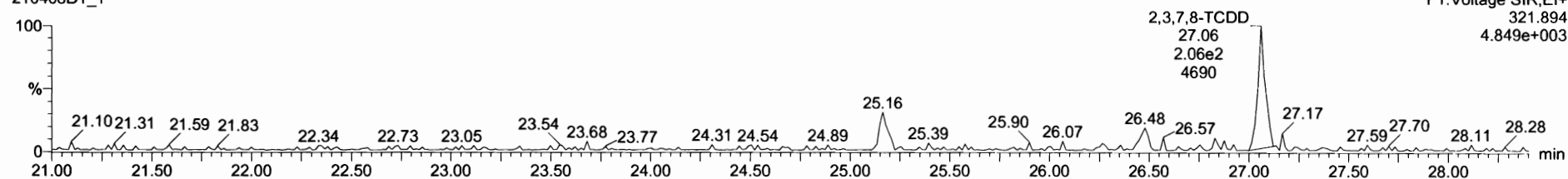
Name: 210408D1_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

2,3,7,8-TCDD

210408D1_1

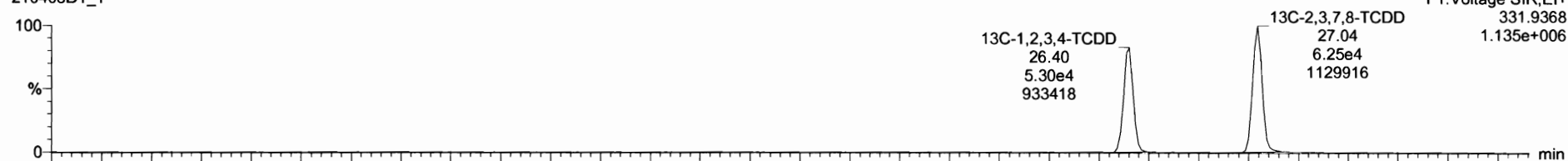


210408D1_1

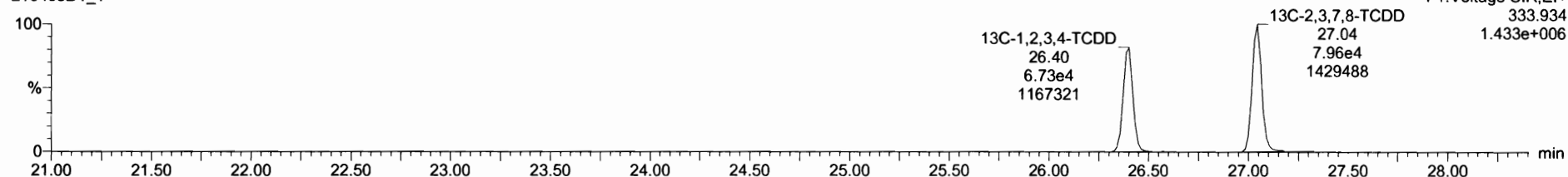


13C-2,3,7,8-TCDD

210408D1_1



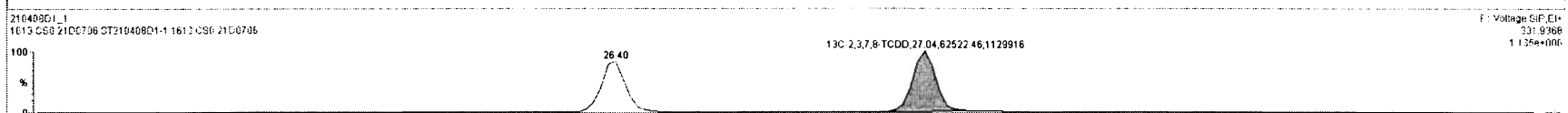
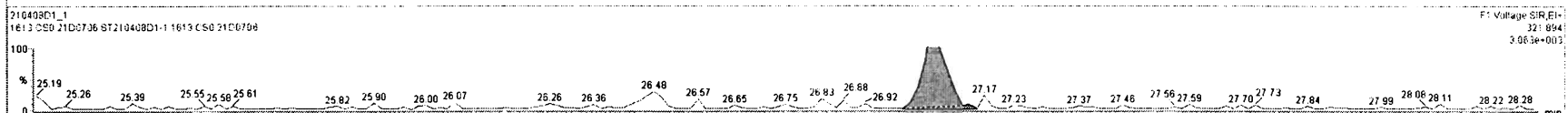
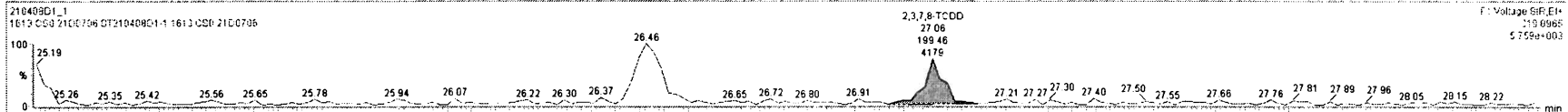
210408D1_1



210408D1_1 - ST210408D1-1 1613 C50 2100706 - 1613 C50 2100706

Name	Resp	IS Resp	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	RRT Fail	Conc.	%Rec	DL	EMPC
32 13C-1,2,3,4,6,7,8-HpCDF	9.30e4	1.27e5	0.7289	1.000	37.21	37.27	1.0911	1.09	NO	101	101	0.922	
33 13C-1,2,3,4,7,8,9-HpCDF	7.54e4	1.27e5	0.6079	1.000	39.22	39.41	1.1537	1.15	NO	97.4	97.4	1.10	
34 13C-OCDF	1.72e5	1.27e5	0.6308	1.000	42.40	42.56	1.2458	1.24	NO	215	107	0.445	
35 3TC-2,3,7,8-TCDD	8.33e2	1.20e5	2.2189	1.000	27.05	27.06	1.0249	1.02	NO	0.312	1.25	0.0231	
36 13C-1,2,3,4-TCDD	1.20e5	1.20e5	1.0000	1.000	26.42	26.40	1.0000	1.00	NO	100	100	0.302	

Name	RT	wt Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 2,3,7,8-TCDD	27.06	1.995e2	2.277e2	0.88	NO	0.28700	0.28691



Dataset: Untitled

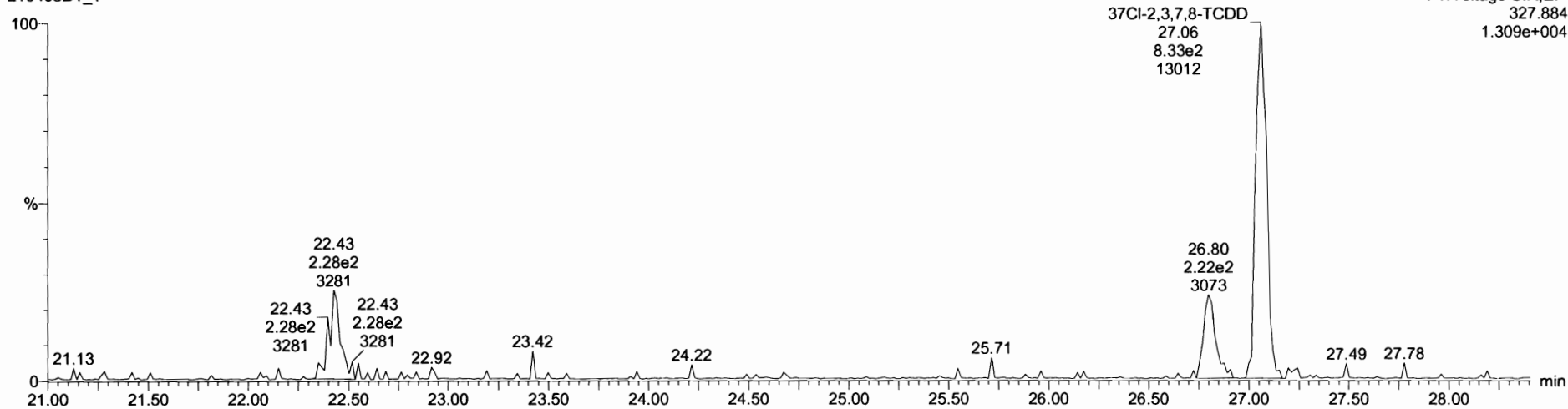
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

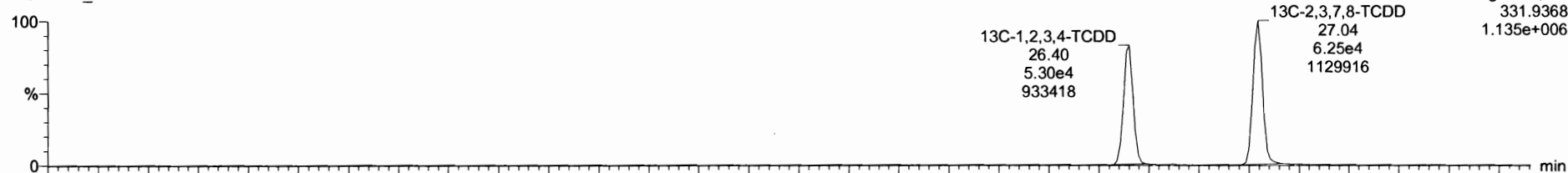
37Cl-2,3,7,8-TCDD

210408D1_1

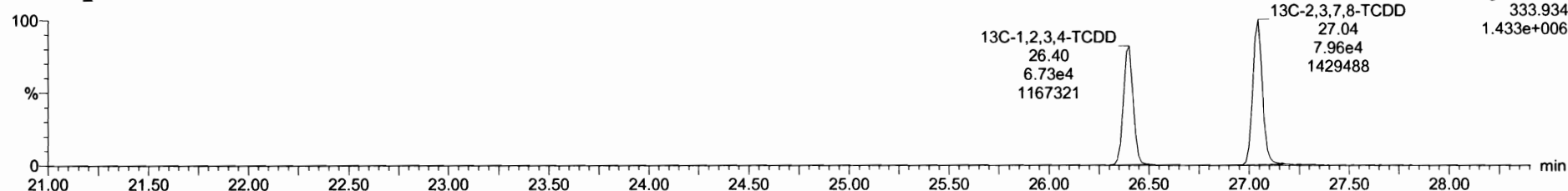


13C-1,2,3,4-TCDD

210408D1_1



210408D1_1



Dataset: Untitled

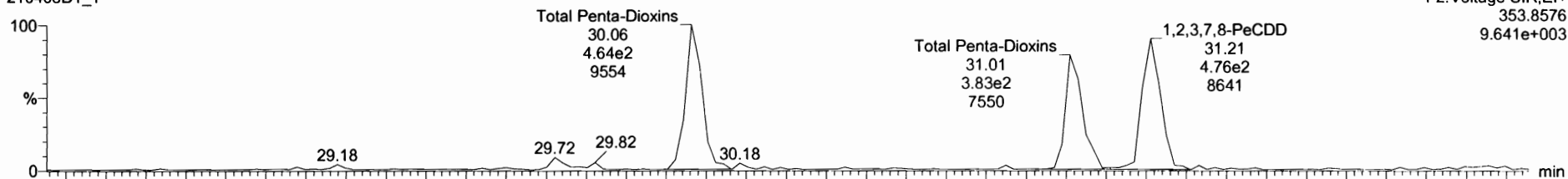
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

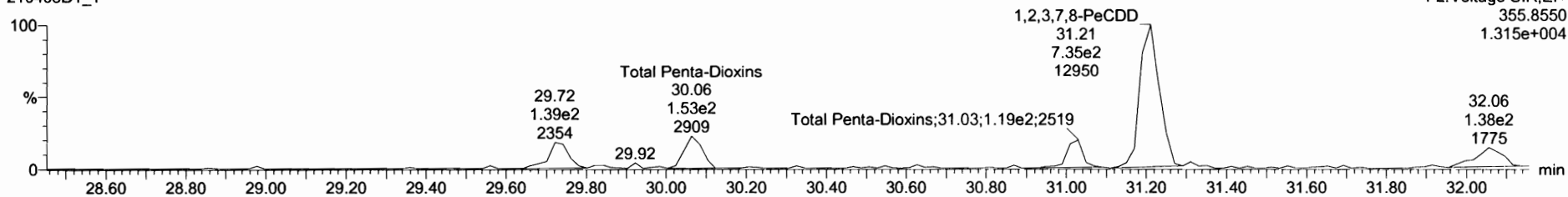
Name: 210408D1_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

1,2,3,7,8-PeCDD

210408D1_1

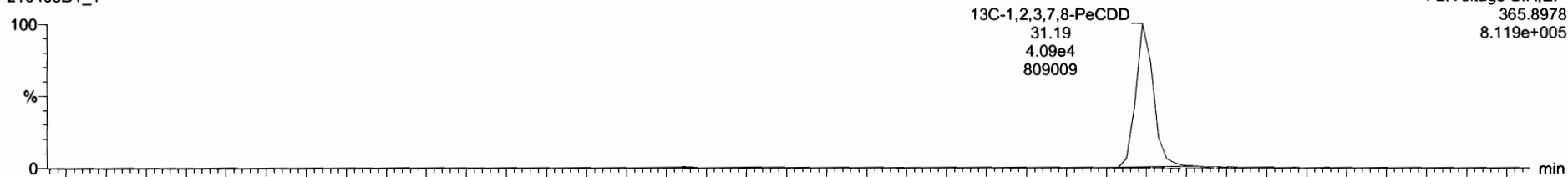


210408D1_1

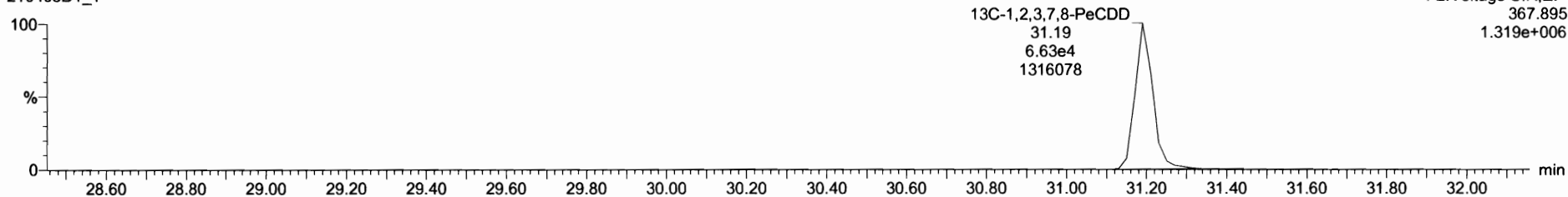


13C-1,2,3,7,8-PeCDD

210408D1_1



210408D1_1



Dataset: Untitled

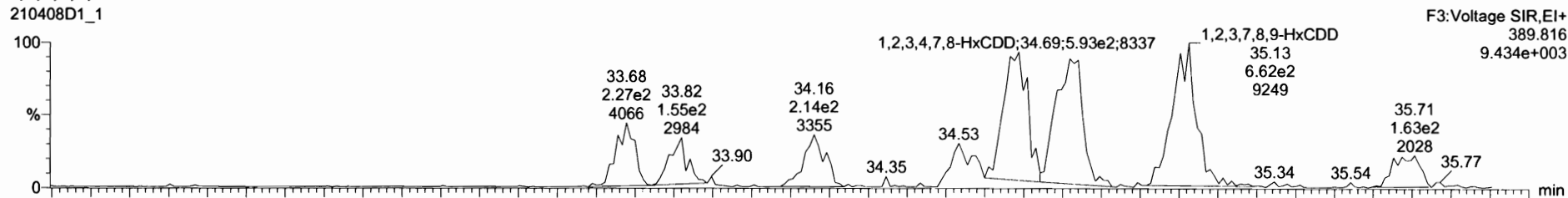
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

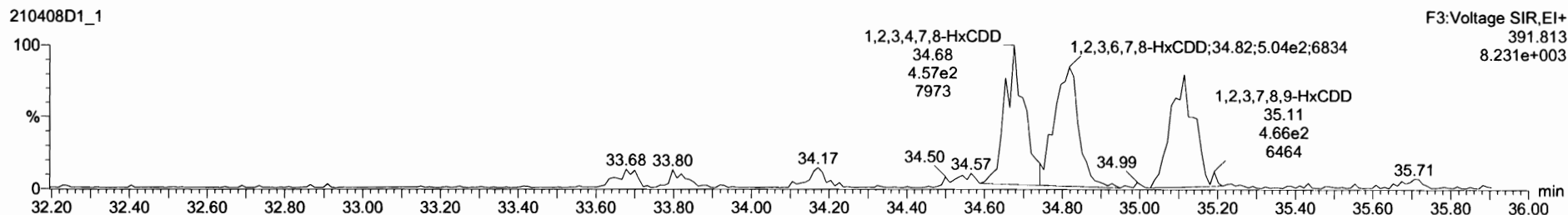
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1,2,3,4,7,8-HxCDD

210408D1_1

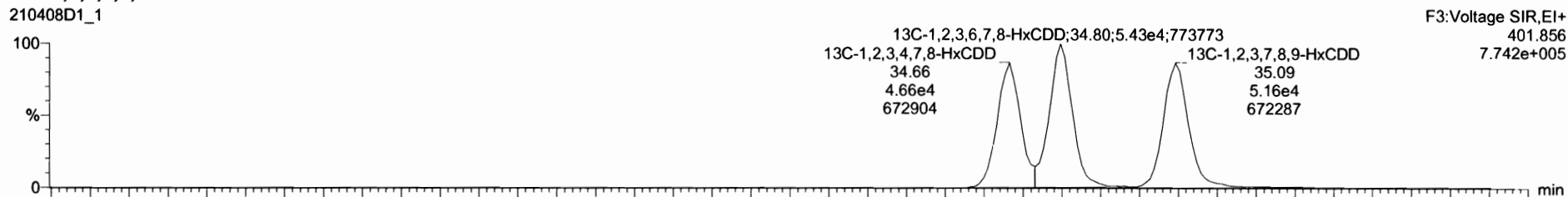


210408D1_1

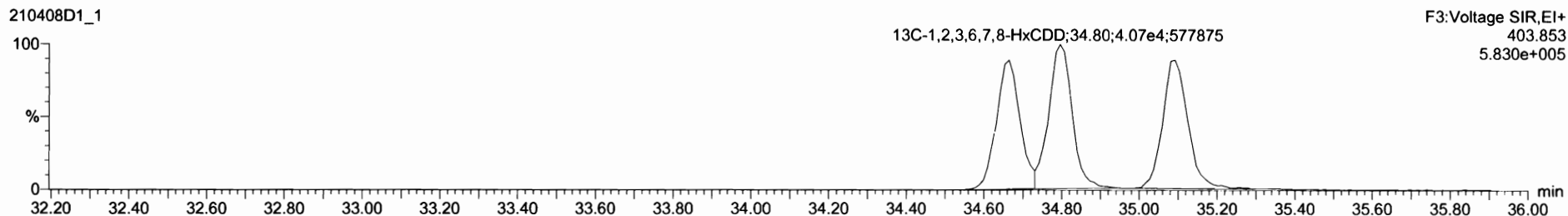


13C-1,2,3,4,7,8-HxCDD

210408D1_1

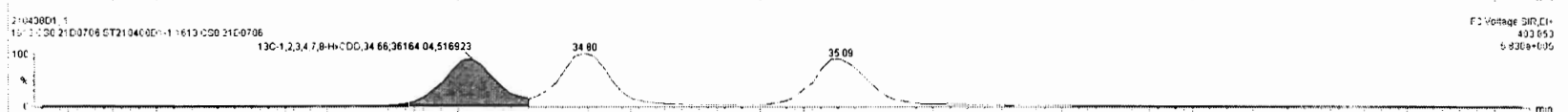
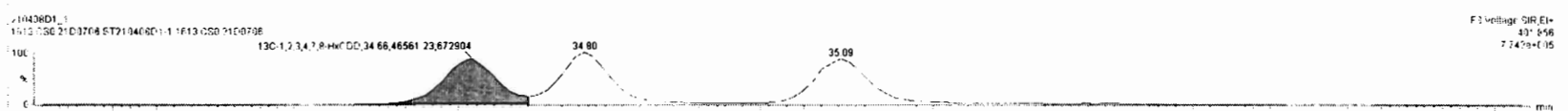
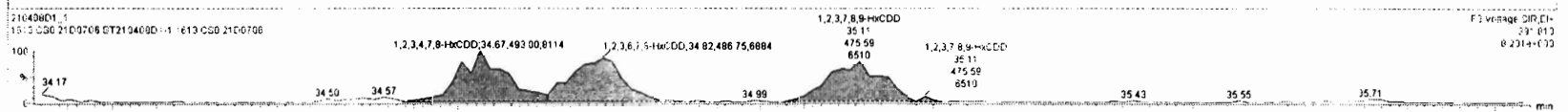
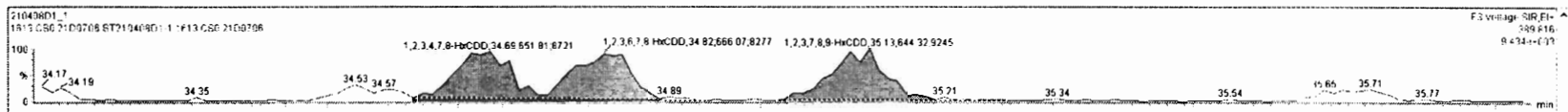


210408D1_1



Name	Resp	RA	nly	RPF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				1.01	1.000			3.83		0.298	3.83
42 Total Hepta-Dioxins				1.07	1.000			1.24		0.253	1.24
43 Total Tetra-Furans				0.86	1.000			0.220		0.0323	0.220
44 1st Func. Penta-Furans				0.95	1.000					0.00820	
45 Total Penta-Furans				0.95	1.000			2.36		0.0338	2.36

Name	RT	amt Resp	n2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,7,8-HxCDD	35.13	6.443e2	4.756e2	1.36	NO	1.2140	1.2143
2 1,2,3,6,7,8-HxCDD	34.82	8.881e2	4.868e2	1.37	NO	1.2010	1.2014
3 1,2,3,4,7,8-HxCDD	34.69	6.518e2	4.930e2	1.32	NO	1.2110	1.2108



Dataset: Untitled

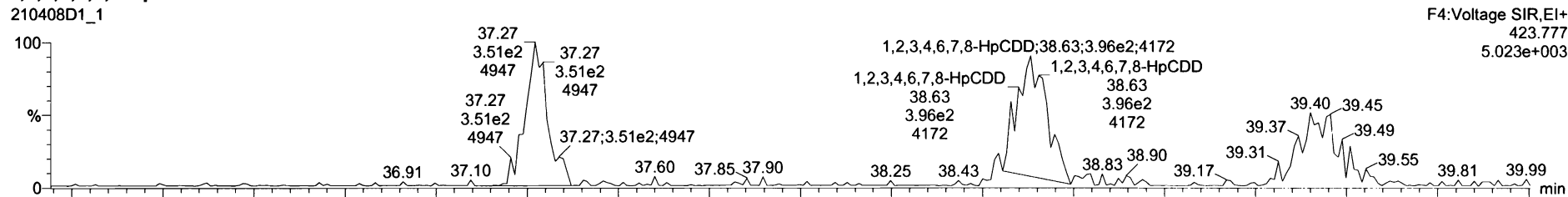
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

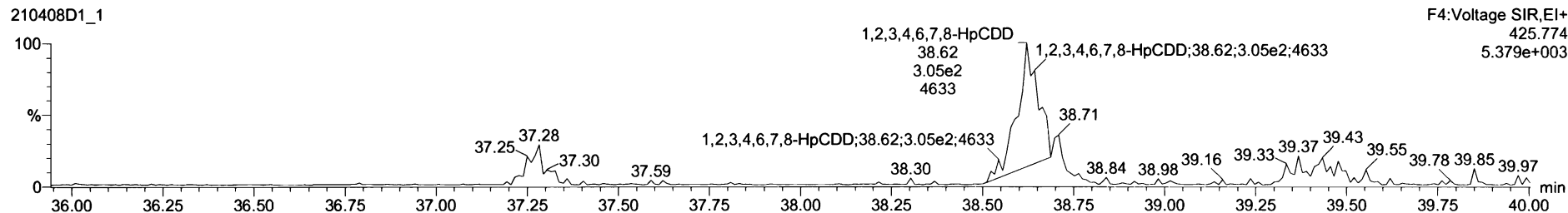
Name: 210408D1_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

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

210408D1_1

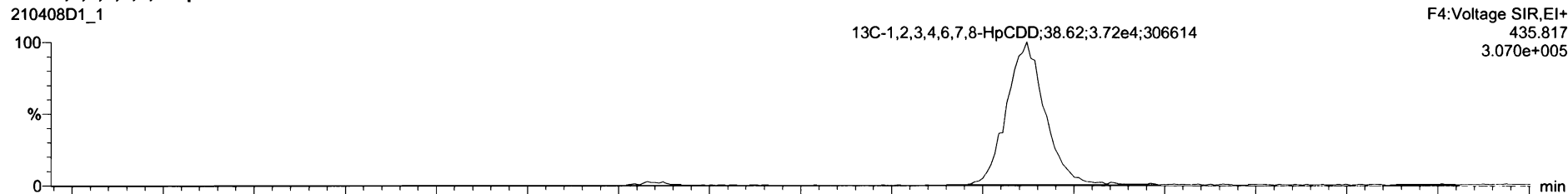


210408D1_1

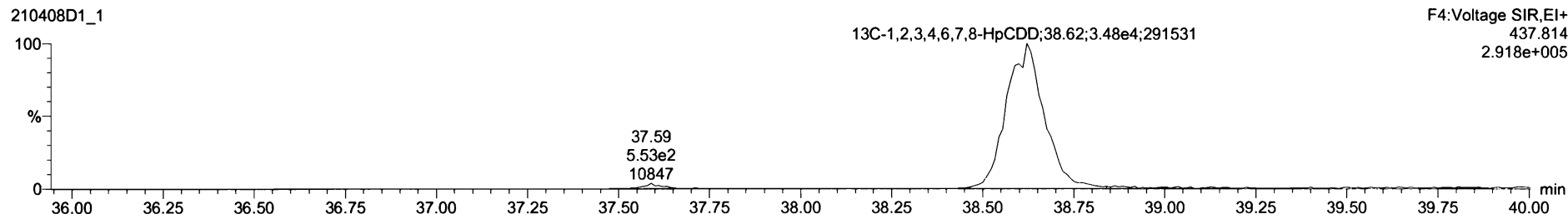


13C-1,2,3,4,6,7,8-HpCDD

210408D1_1

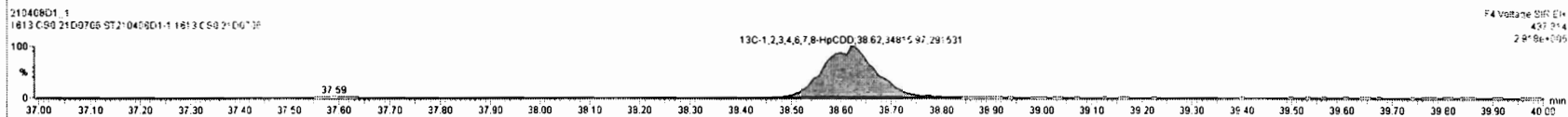
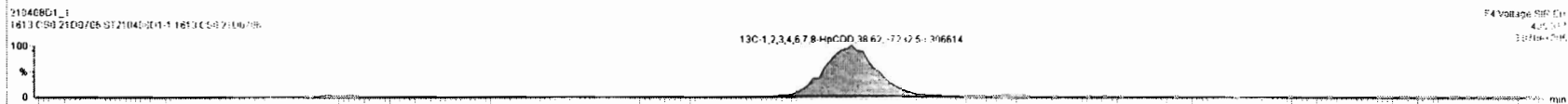
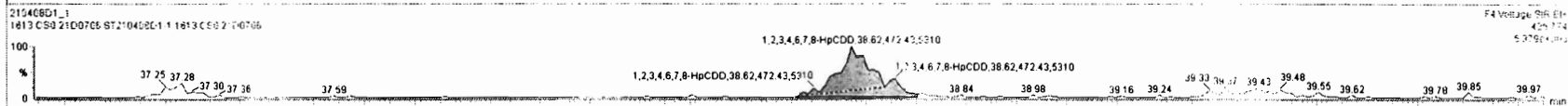
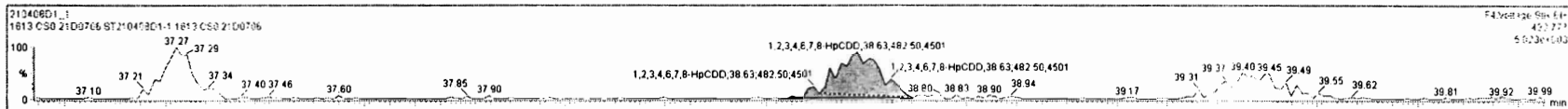


210408D1_1



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				1.01	1.000			2.63		0.298	3.63
42 Total Hepta-Dioxins				1.07	1.000			1.24		0.253	1.24
43 Total Tetra-Furans				0.86	1.000			0.220		0.0323	0.220
44 1st Func. Penta-Furans				0.95	1.000					0.00820	
45 Total Penta-Furans				0.95	1.000			2.36		0.0338	2.36

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.63	4.825e2	4.724e2	1.02	NO	1.2440	1.2445



Dataset: Untitled

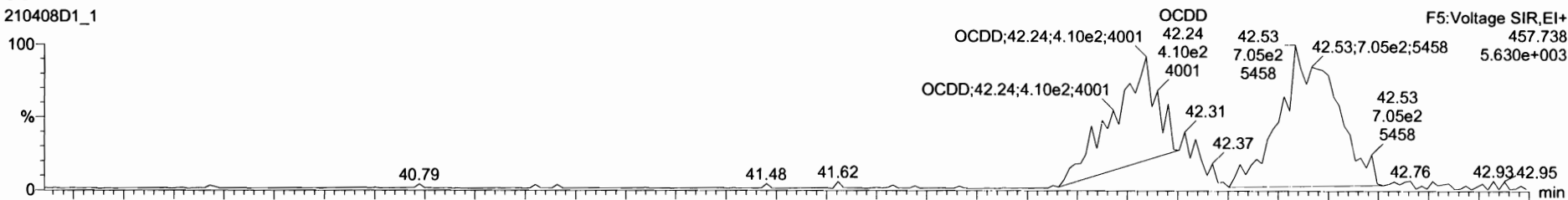
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

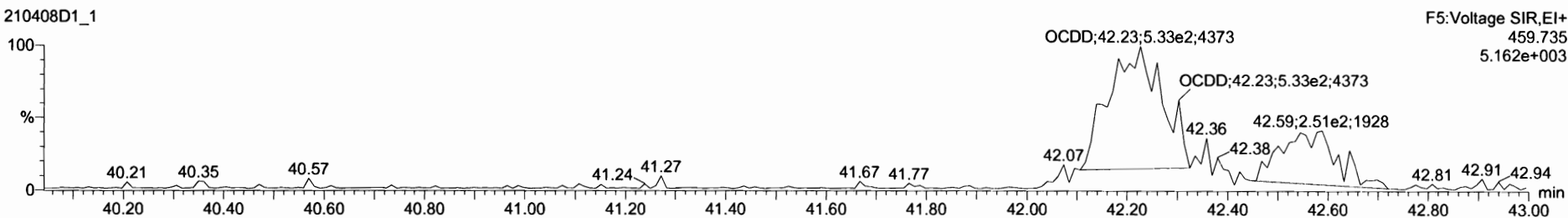
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OCDD

210408D1_1

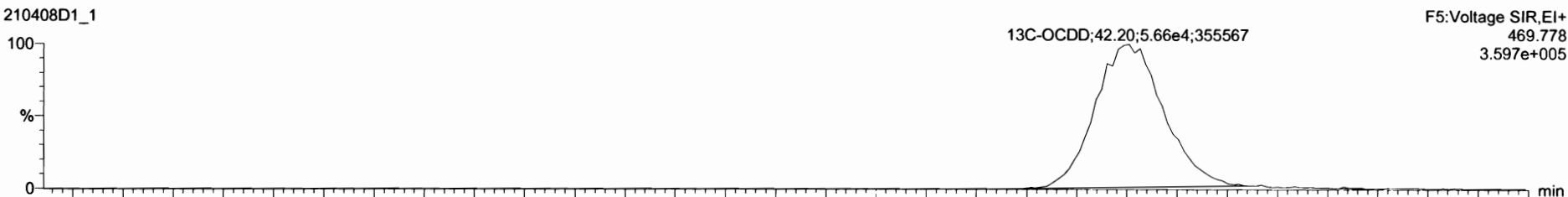


210408D1_1

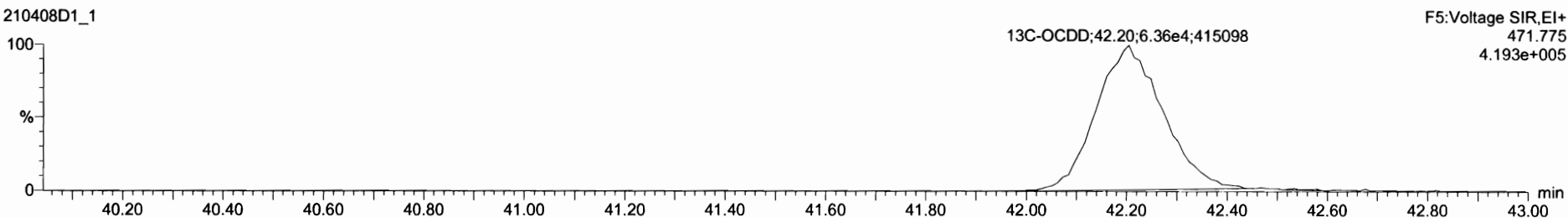


13C-OCDD

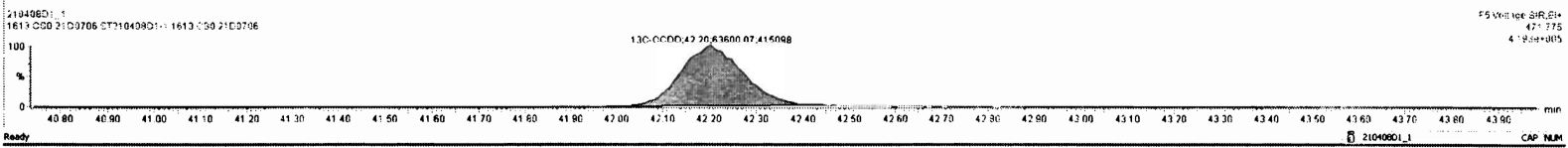
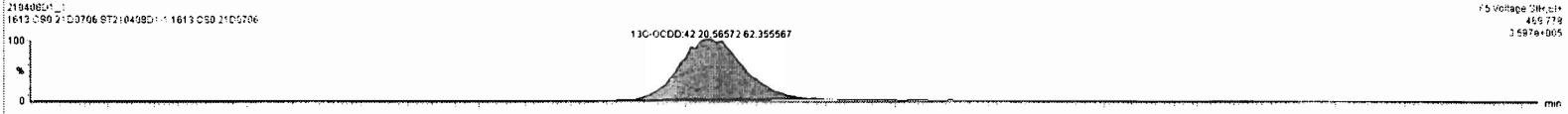
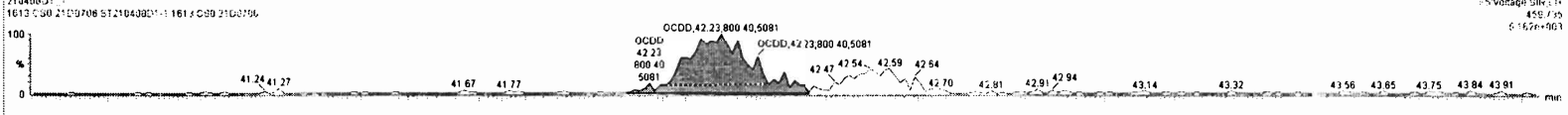
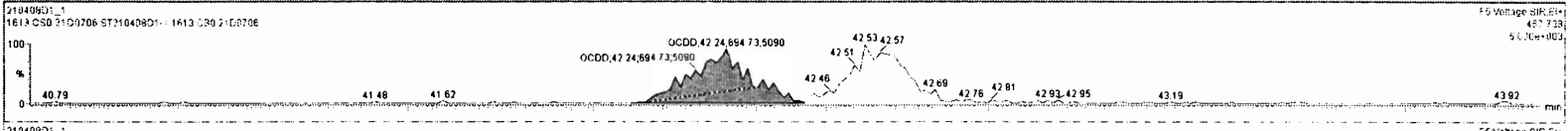
210408D1_1



210408D1_1



Name	Resp	IS Resp	RFI	width	Pred RT	RT	RRT	Pred RRT	RRT Flag	Comp	%Rec	DL	EMPC
1 2,3,7,8-TCDD	4.27e2	1.42e5	1.0478	1.000	27.07	27.06	1.0006	1.00	NO	0.287	115	0.0684	0.287
2 1,2,3,7,8-PeCDD	1.21e3	1.07e5	0.8813	1.000	31.21	31.21	1.0007	1.00	NO	1.28	103	0.0558	1.28
3 1,2,3,4,7,8-HxCDD	1.14e3	8.27e4	1.1429	1.000	34.67	34.68	1.0006	1.00	NO	1.21	96.9	0.273	1.21
4 1,2,3,6,7,8-HxCDD	1.15e3	9.49e4	1.0108	1.000	34.81	34.82	1.0006	1.00	NO	1.20	96.1	0.273	1.20
5 1,2,3,7,8,9-HxCDD	1.12e3	9.05e4	1.0194	1.000	35.12	35.13	1.0008	1.00	NO	1.21	97.1	0.311	1.21
6 1,2,3,4,6,7,8-HpCDD	9.55e2	7.20e4	1.0650	1.000	38.63	38.63	1.0003	1.00	NO	1.24	99.6	0.253	1.24
7 OCDD	1.50e3	1.20e5	1.0022	1.000	42.20	42.24	1.0008	1.00	NO	2.48	98.3	0.050	2.48
8 2,3,7,8-TCDF	4.18e2	2.20e5	0.8637	1.000	26.49	26.49	1.0012	1.00	NO	0.220	87.8	0.0323	0.220
9 1,2,3,7,8-PeCDF	1.75e3	1.62e5	0.8494	1.000	30.08	30.08	1.0007	1.00	NO	1.14	98.9	0.0340	1.14
10 2,3,4,7,8-PeCDF	2.08e3	1.62e5	1.0377	1.000	31.06	31.03	1.0000	1.00	NO	1.23	98.1	0.0307	1.23
11 1,2,3,4,7,8-HxCDF	1.56e3	1.26e5	1.0430	1.000	33.70	33.70	1.0007	1.00	NO	1.19	95.0	0.0600	1.19
12 1,2,3,6,7,8-HxCDF	1.70e3	1.35e5	1.0742	1.000	33.83	33.83	1.0004	1.00	NO	1.18	94.0	0.0566	1.18
13 2,3,4,6,7,8-HpCDF	1.59e3	1.25e5	1.1171	1.000	34.55	34.57	1.0006	1.00	NO	1.13	90.7	0.0646	1.13
14 1,2,3,7,8,9-HxCDF	1.52e3	1.09e5	1.0987	1.000	35.69	35.71	1.0006	1.00	NO	1.27	102	0.0886	1.27
15 1,2,3,4,6,7,8-HpCDF	1.31e3	9.30e4	1.1599	1.000	37.31	37.26	1.0003	1.00	NO	1.21	96.8	0.103	1.21
16 1,2,3,4,7,8,9-HpCDF	1.12e3	7.54e4	1.1869	1.000	39.41	39.43	1.0006	1.00	NO	1.25	100	0.240	1.25
17 OCDF	1.62e3	1.72e5	0.8088	1.000	42.58	42.58	1.0008	1.00	NO	2.32	97.9	0.211	2.32



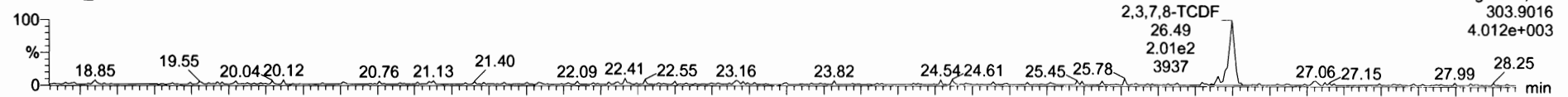
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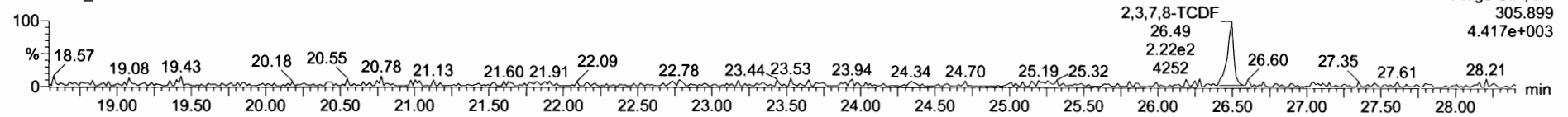
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2,3,7,8-TCDF

210408D1_1

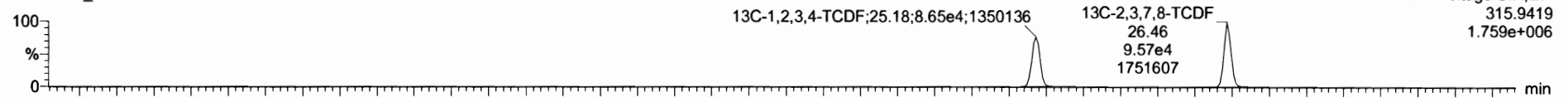


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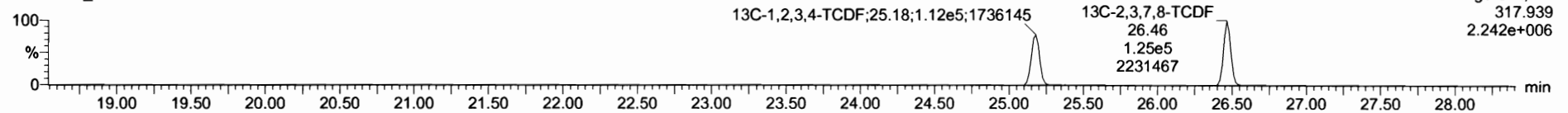


13C-2,3,7,8-TCDF

210408D1_1

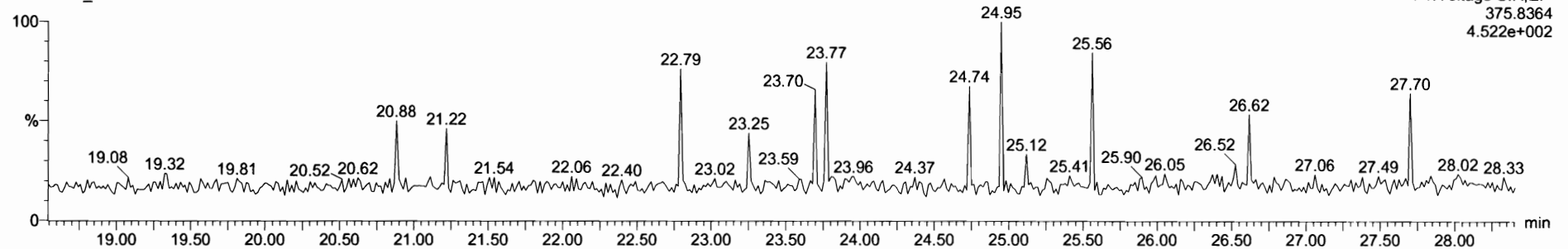


210408D1_1



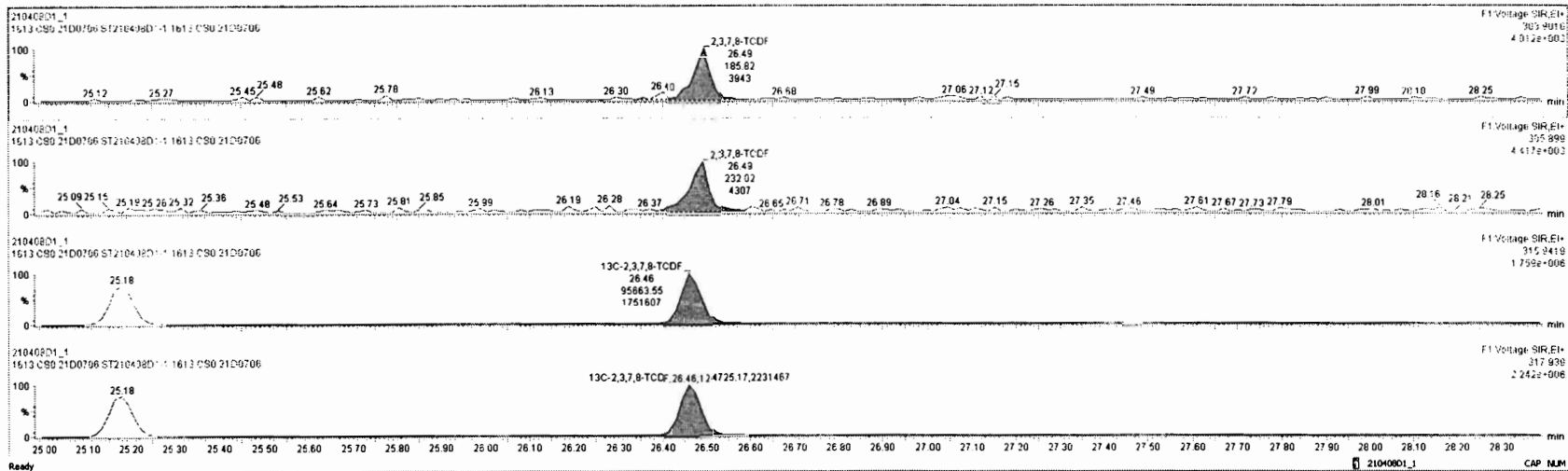
DPE1

210408D1_1



Name	Resp	RA	nHy	RRF	wt/Vol	RT	PRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				1.01	1.000			3.63	0.298	3.63	
42 Total Hepta-Dioxins				1.07	1.000			1.24	0.253	1.24	
43 Total Tetra-Furans				0.86	1.000			0.220	0.0323	0.220	
44 1st Func. Penta-Furans				0.95	1.000				0.00820		
45 Total Penta-Furans				0.95	1.000			2.36	0.0338	2.36	

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 2,3,7,8-TCDF	26.49	1.859e2	2.320e2	0.80	NO	0.22000	0.21951



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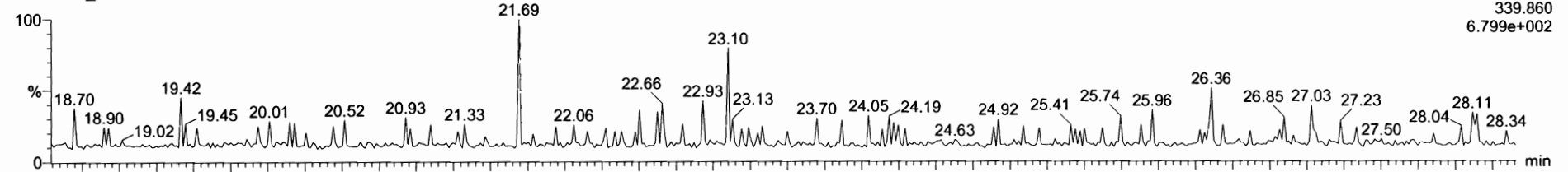
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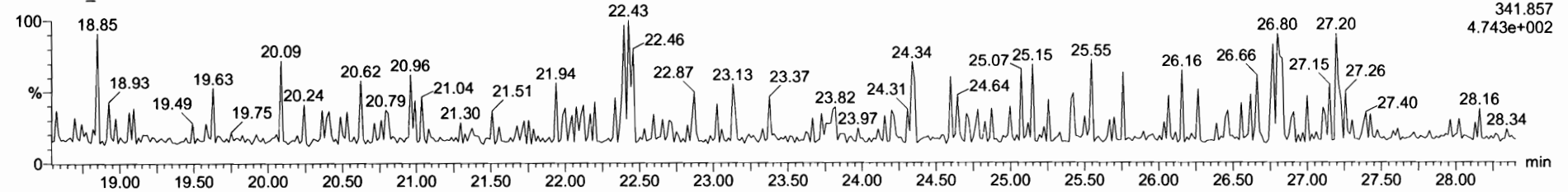
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1st Func. Penta-Furans

210408D1_1

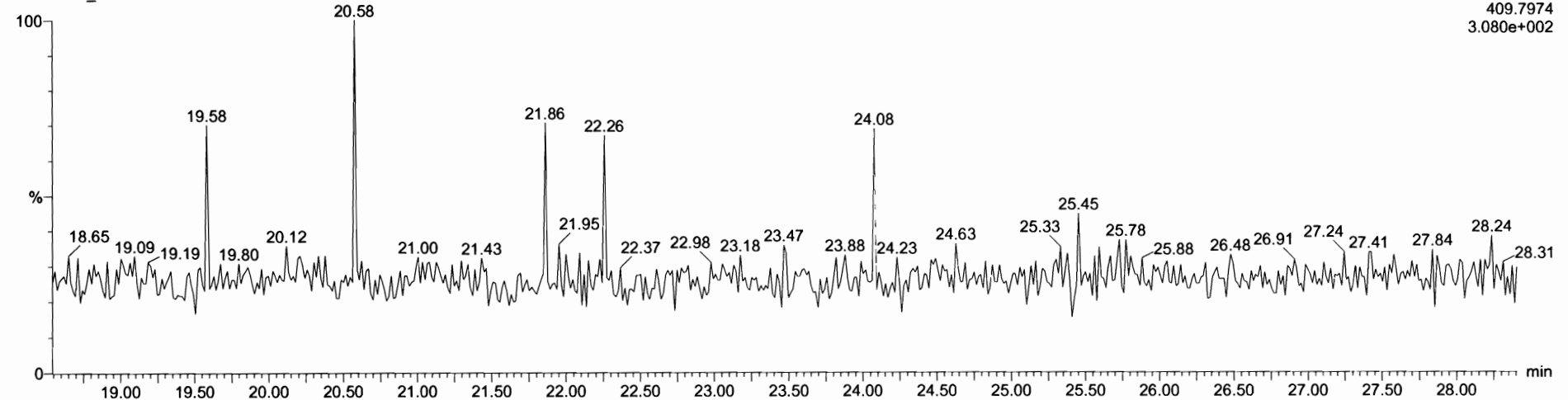


210408D1_1



DPE6

210408D1_1



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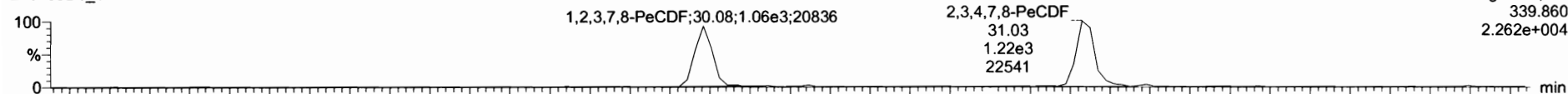
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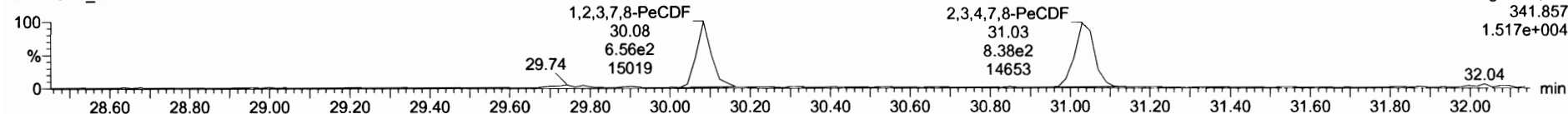
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1,2,3,7,8-PeCDF

210408D1_1

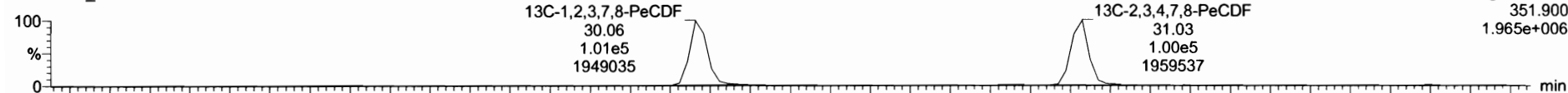


210408D1_1

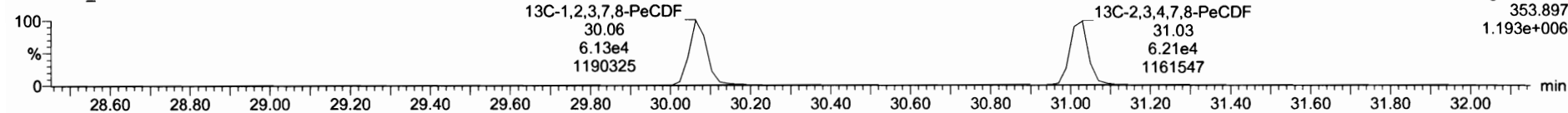


13C-1,2,3,7,8-PeCDF

210408D1_1

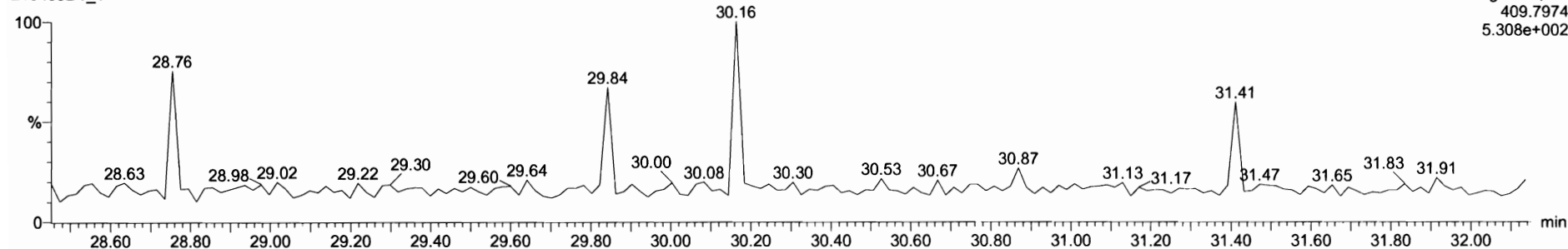


210408D1_1



DPE2

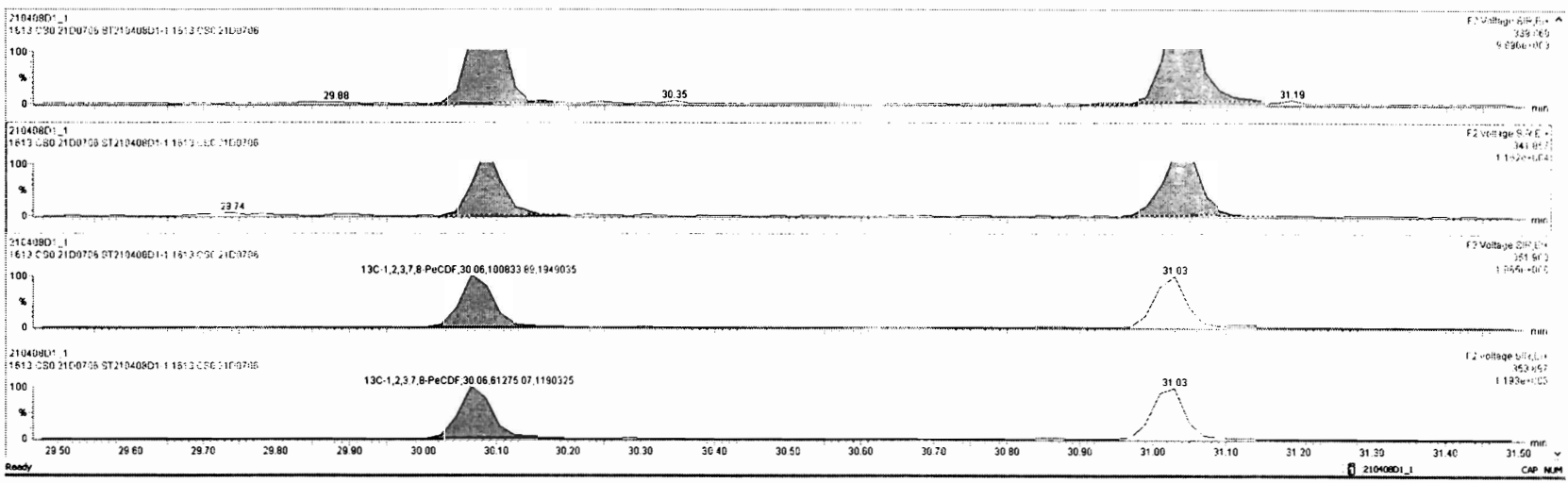
210408D1_1



210408D1_1 - ST210408D1-1 1613 C50 21D0706 - 1613 C50 21D0706

Name	Resp	RA	nV	RFF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins			1.01	1.000				3.63	0.298	3.63	
42 Total Hepta-Dioxins			1.07	1.000				1.24	0.253	1.24	
43 Total Tetra-Furans			0.86	1.000				0.220	0.0323	0.220	
44 1st Func. Penta-Furans			0.95	1.000					0.0020		
45 Total Penta-Furans			0.95	1.000				2.36	0.0338	2.36	

Name	RT	mV Resp	nV Resp	RA	nV	EMPC	Conc.
1 1,2,3,4,7,8-PeCDF	31.03	1.217e3	8.446e2	1.44	NO	1.2260	1.2258
2 1,2,3,7,8-PeCDF	30.08	1.072e3	6.755e2	1.59	NO	1.1370	1.1367



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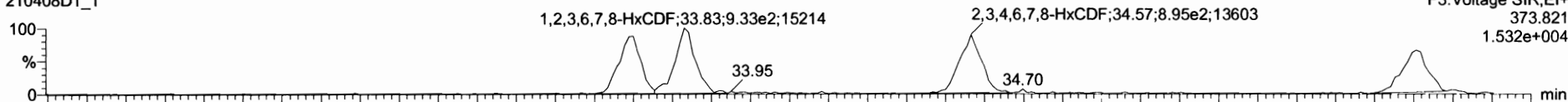
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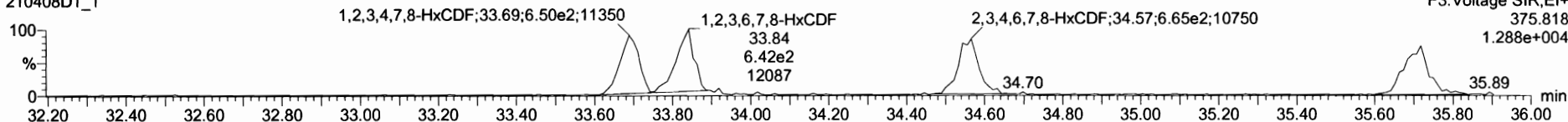
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1,2,3,4,7,8-HxCDF

210408D1_1

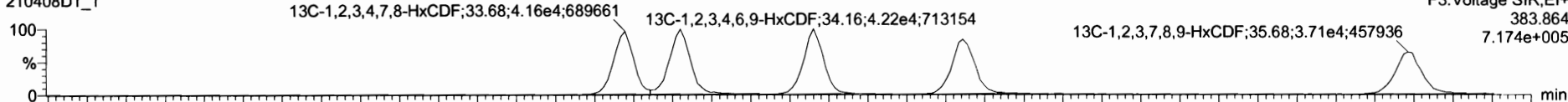


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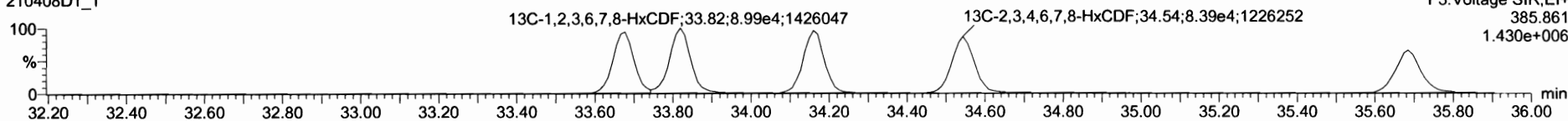


13C-1,2,3,4,7,8-HxCDF

210408D1_1

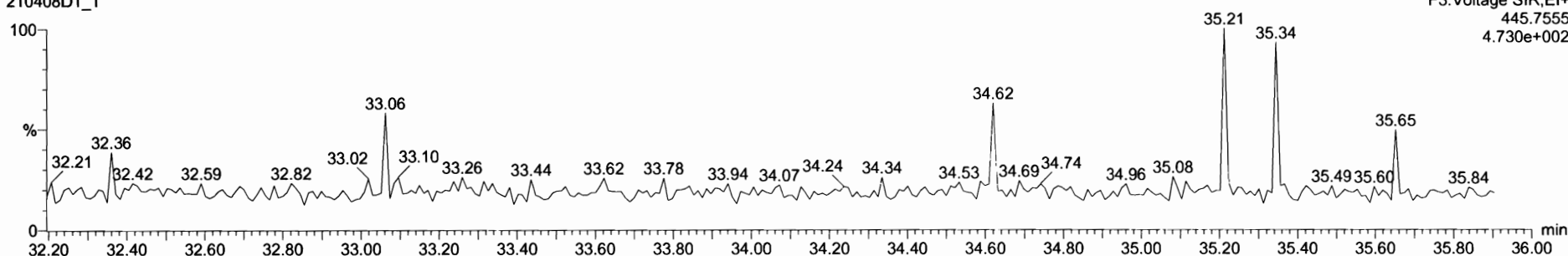


210408D1_1



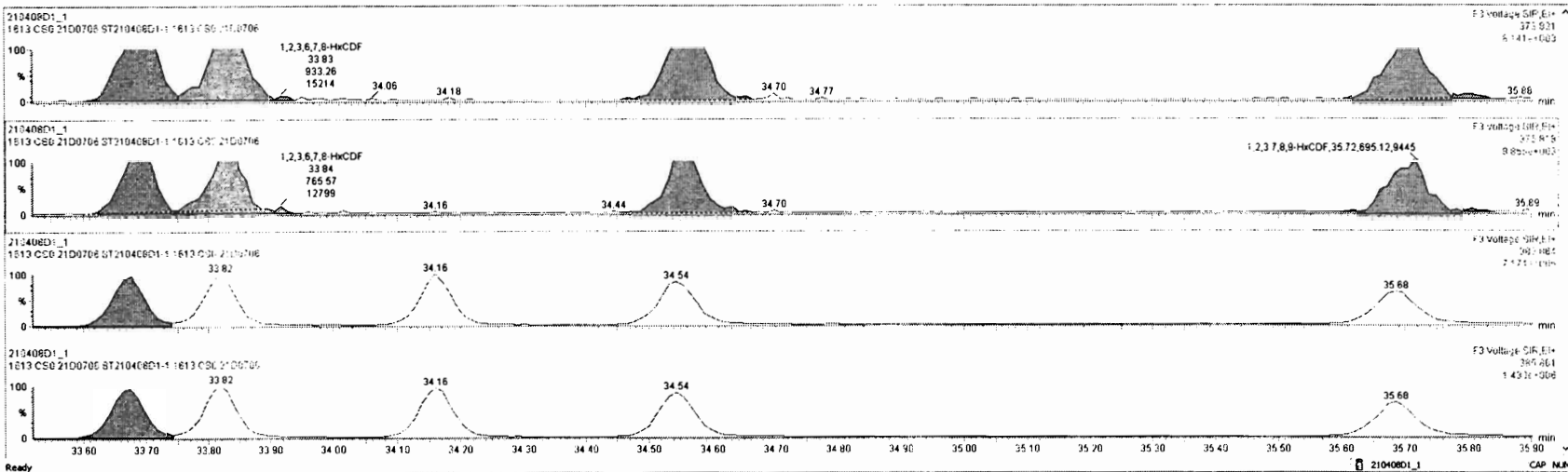
DPE3

210408D1_1



Name	Resp	RA	nHy	RRF	WtAveI	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				1.01	1.000			3.63		0.298	3.63
42 Total Hepta-Dioxins				1.07	1.000			1.24		0.253	1.24
43 Total Tetra-Furans				0.86	1.000			0.220		0.0323	0.220
44 1st Func. Penta-Furans				0.95	1.000					0.00820	
45 Total Penta-Furans				0.95	1.000			2.36		0.0338	2.36

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 1,2,3,7,8-HxCDF	35.71	8.280e2	6.951e2	1.19	NO	1.2730	1.2730
2 2,3,4,6,7,8-HxCDF	34.57	9.004e2	6.859e2	1.31	NO	1.1330	1.1334
3 1,2,3,6,7,8-HxCDF	33.83	9.333e2	7.656e2	1.22	NO	1.1750	1.1753
4 1,2,3,4,7,8-HxCDF	33.70	8.739e2	6.853e2	1.27	NO	1.1870	1.1869



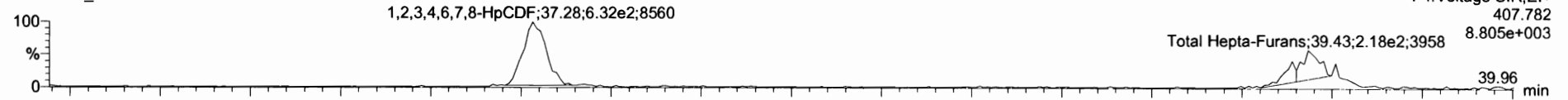
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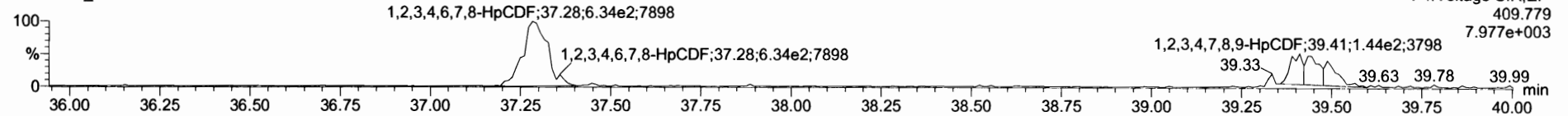
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1,2,3,4,6,7,8-HpCDF

210408D1_1

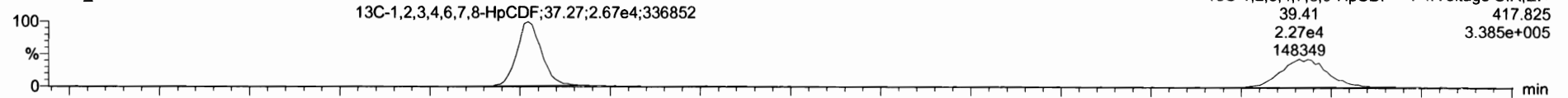


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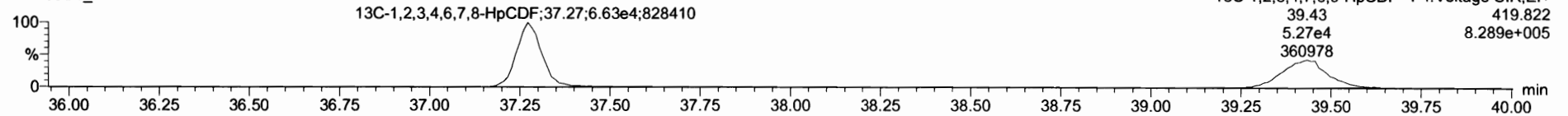


13C-1,2,3,4,6,7,8-HpCDF

210408D1_1

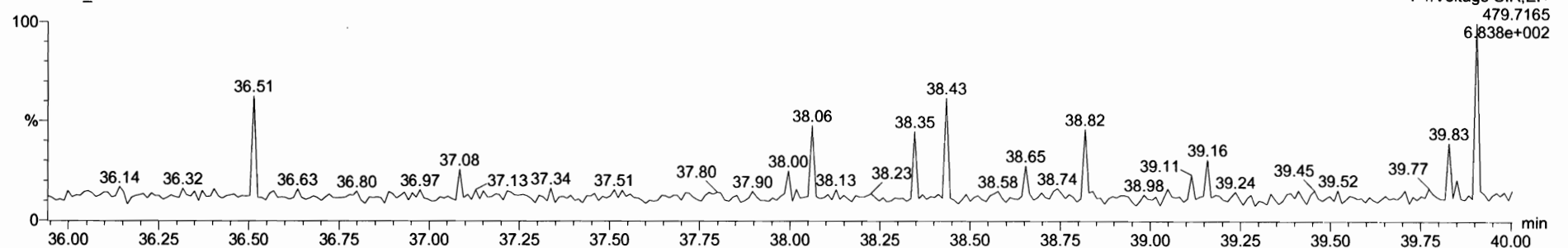


210408D1_1



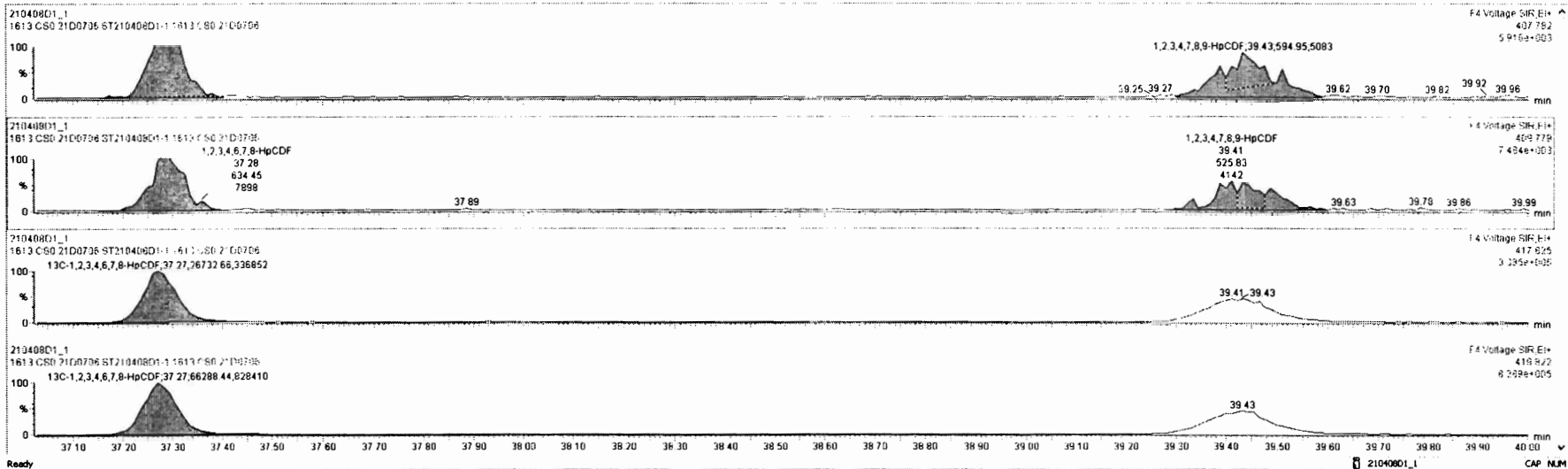
DPE4

210408D1_1



Name	Resp	RA	nV	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				1.18	1.000			2.48		0.187	2.48
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	nV	EMPC	Conc.
1 1,2,3,4,7,8,9-HpCDF	39.43	5349e2	5.250e2	1.13	NO	1.2530	1.2528
2 1,2,3,4,6,7,8-HpCDF	37.28	6.714e2	6.345e2	1.06	NO	1.2100	1.2103

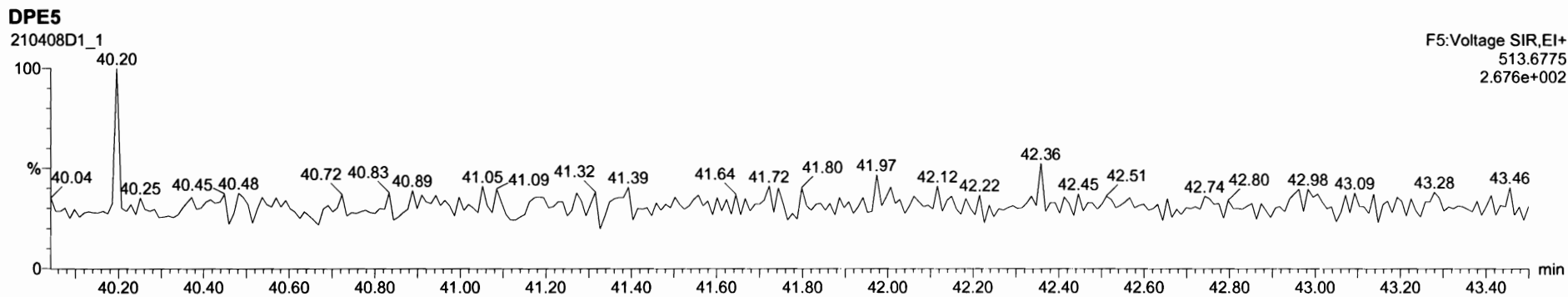
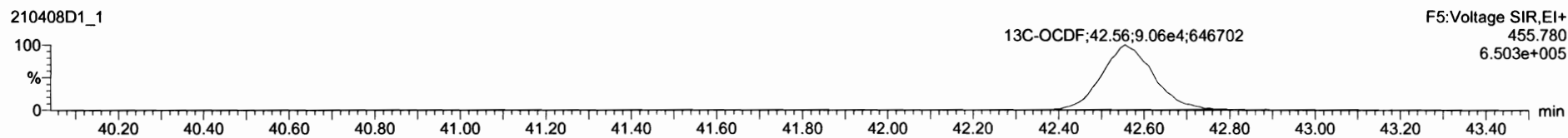
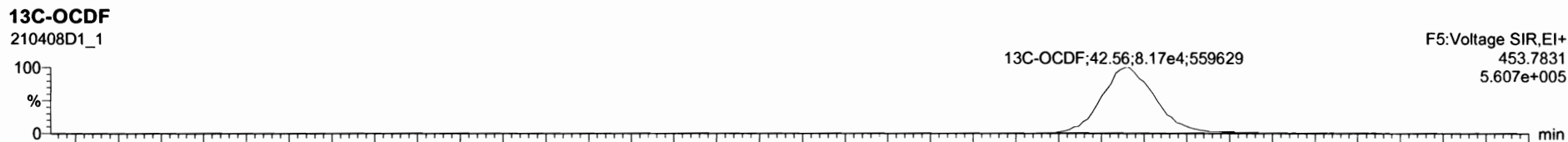
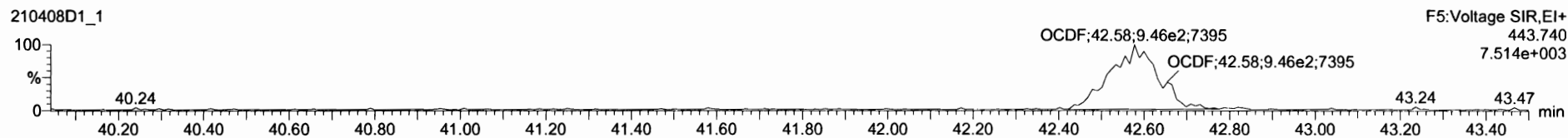
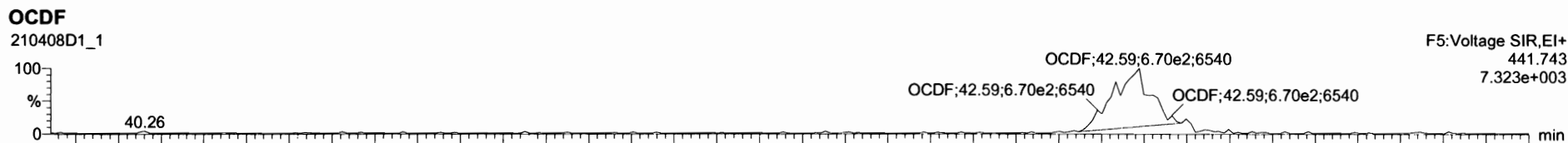


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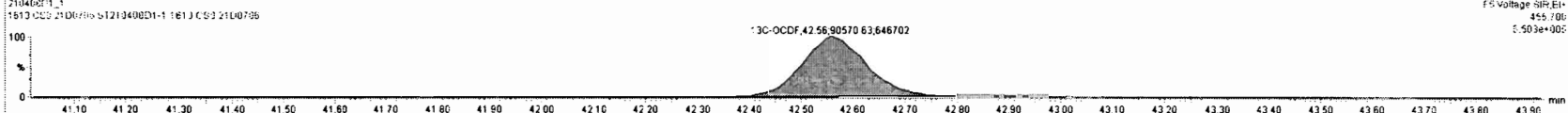
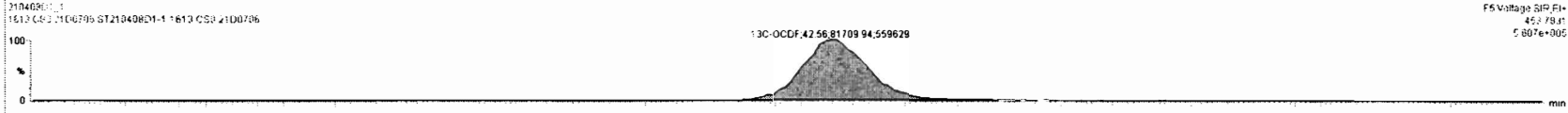
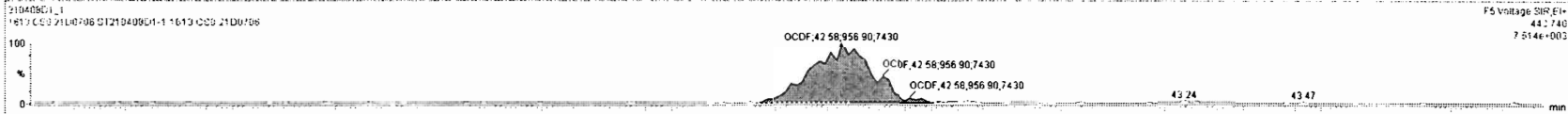
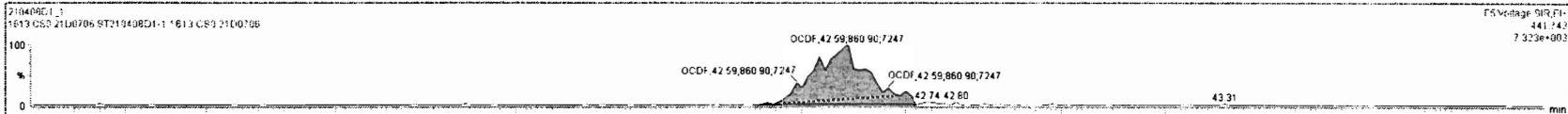
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Name: 210408D1_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706



#	Name	Resp	IS Resp	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	RRT Fail	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	4.27e2	1.42e5	1.0478	1.000	27.07	27.06	1.0006	1.00	NO	0.287	115	0.0684	0.287
2	1,2,3,7,8-PeCDD	1.21e3	1.07e5	0.8813	1.000	31.21	31.21	1.0007	1.00	NO	1.28	103	0.0556	1.28
3	1,2,3,4,7,8-HxCDD	1.14e3	8.27e4	1.1429	1.000	34.67	34.69	1.0006	1.00	NO	1.21	96.9	0.273	1.21
4	1,2,3,6,7,8-HxCDD	1.15e3	9.49e4	1.0106	1.000	34.81	34.82	1.0006	1.00	NO	1.20	96.1	0.273	1.20
5	1,2,3,7,8,9-HxCDD	1.12e3	9.05e4	1.0194	1.000	35.12	35.13	1.0009	1.00	NO	1.21	97.1	0.311	1.21
6	1,2,3,4,6,7,8-HpCDD	9.55e2	7.20e4	1.0650	1.000	38.63	38.63	1.0003	1.00	NO	1.24	99.6	0.253	1.24
7	OCDD	1.50e3	1.20e5	1.0022	1.000	42.20	42.24	1.0006	1.00	NO	2.48	99.3	0.590	2.48
8	2,3,7,8-TCDF	4.18e2	2.20e5	0.8637	1.000	26.49	26.49	1.0012	1.00	NO	0.220	87.8	0.0223	0.220
9	1,2,3,7,8-PeCDF	1.75e3	1.63e5	0.9484	1.000	30.08	30.08	1.0007	1.00	NO	1.14	90.9	0.0340	1.14
10	2,3,4,7,8-PeCDF	2.06e3	1.62e5	1.0377	1.000	31.06	31.03	1.0000	1.00	NO	1.23	98.1	0.0307	1.23
11	1,2,3,4,7,8-HxCDF	1.56e3	1.26e5	1.0430	1.000	33.70	33.70	1.0007	1.00	NO	1.19	95.0	0.0600	1.19
12	1,2,3,6,7,8-HxCDF	1.70e3	1.35e5	1.0742	1.000	33.83	33.83	1.0004	1.00	NO	1.18	94.0	0.0566	1.18
13	2,3,4,6,7,8-HxCDF	1.59e3	1.25e5	1.1171	1.000	34.55	34.57	1.0006	1.00	NO	1.13	90.7	0.0646	1.13
14	1,2,3,7,8,9-HxCDF	1.52e3	1.09e5	1.0987	1.000	35.89	35.71	1.0006	1.00	NO	1.27	102	0.0886	1.27
15	1,2,3,4,6,7,8-HpCDF	1.31e3	9.30e4	1.1598	1.000	37.31	37.26	1.0003	1.00	NO	1.21	96.8	0.103	1.21
16	1,2,3,4,7,8,9-HpCDF	1.12e3	7.54e4	1.1889	1.000	39.41	39.43	1.0006	1.00	NO	1.25	100	0.240	1.25
17	OCDF	1.82e3	1.72e5	0.8086	1.000	42.56	42.58	1.0006	1.00	NO	2.32	82.8	0.211	2.32

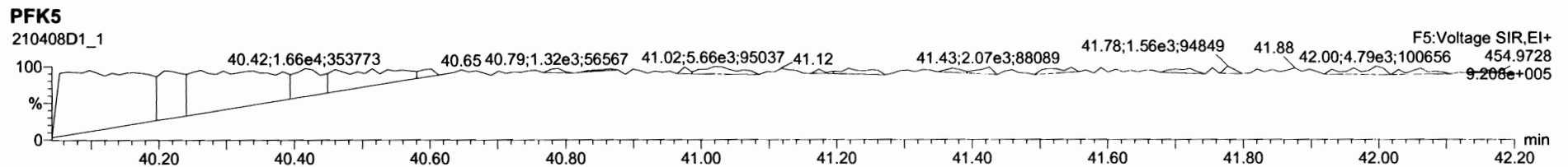
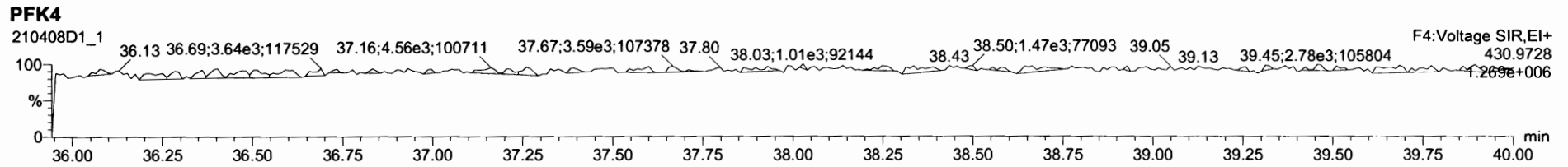
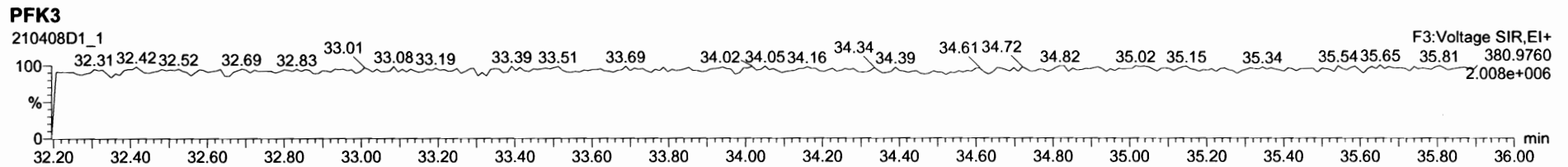
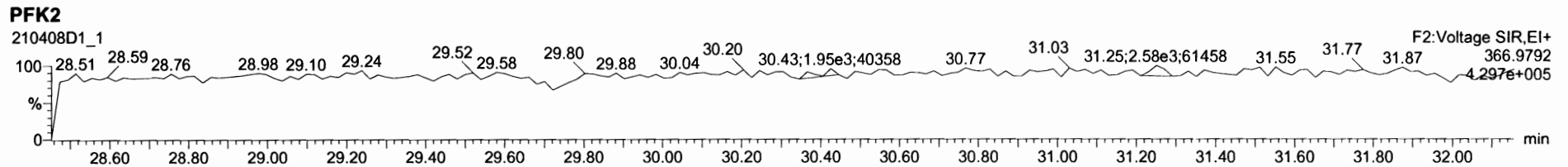
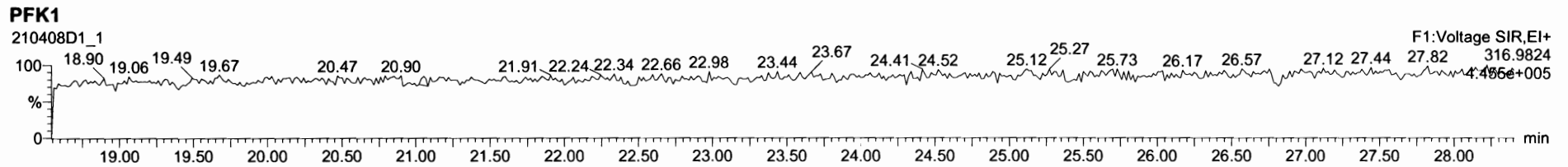


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Name: 210408D1_1, Date: 08-Apr-2021, Time: 08:27:40, ID: ST210408D1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706



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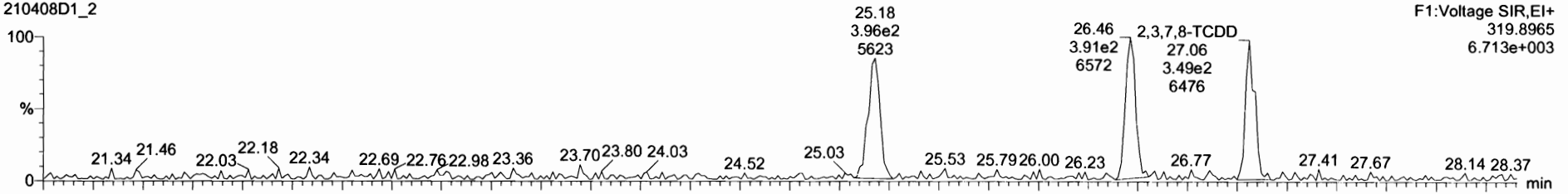
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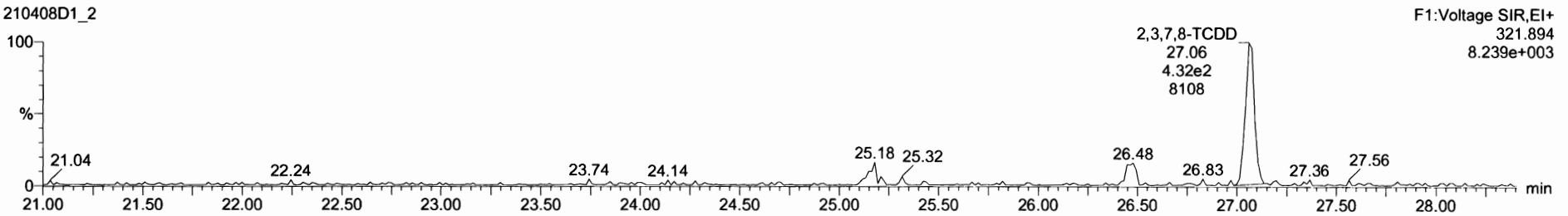
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2,3,7,8-TCDD

210408D1_2

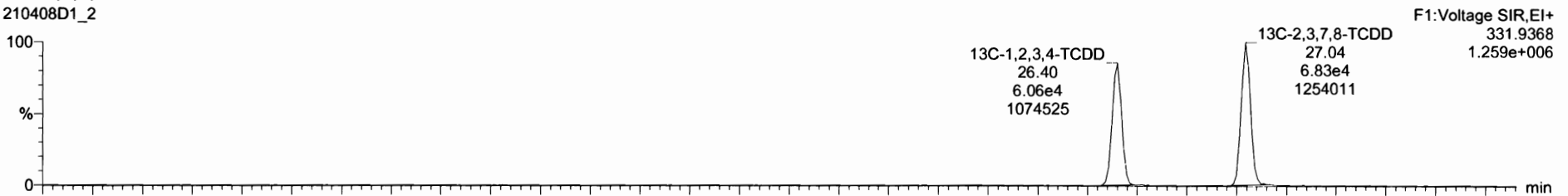


210408D1_2

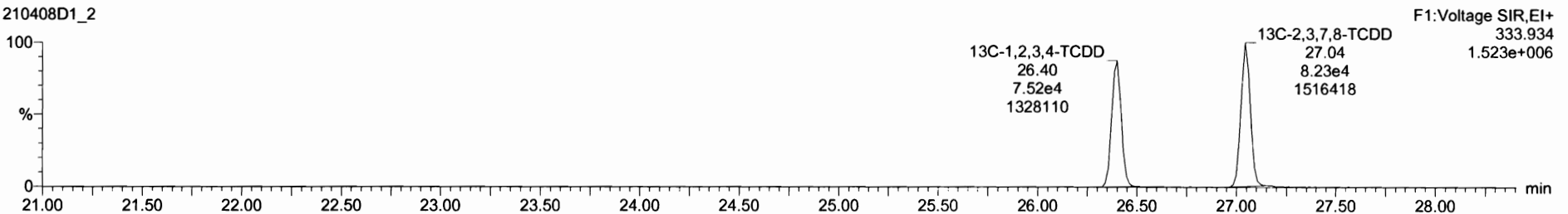


13C-2,3,7,8-TCDD

210408D1_2

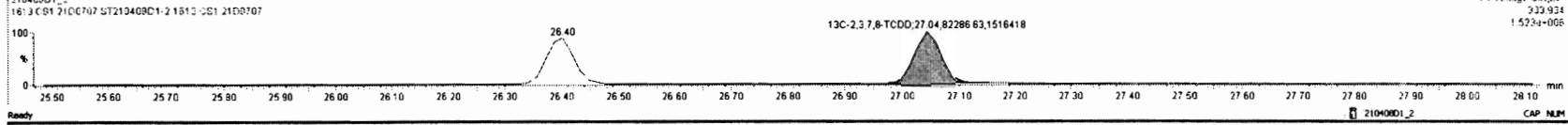
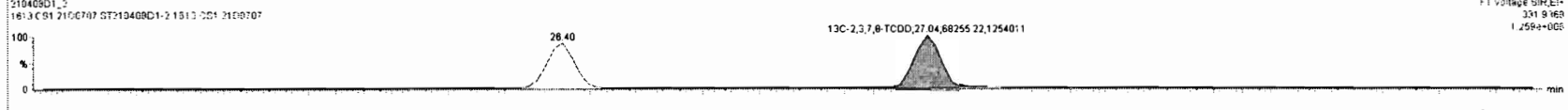
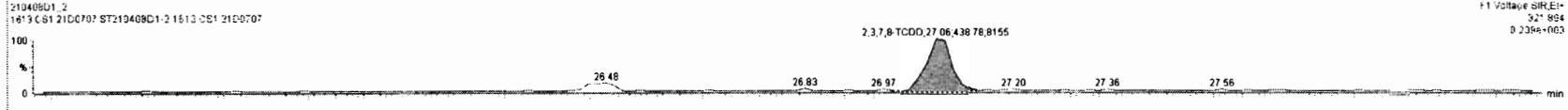
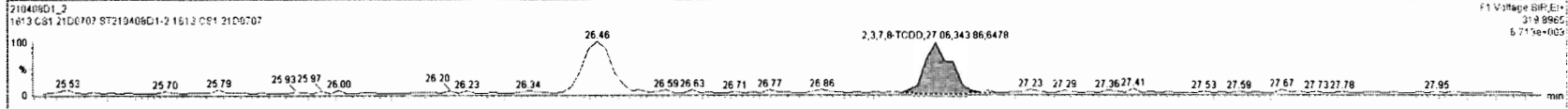


210408D1_2



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	2.20e5	0.77	NO	1.00	1.000	25.18	1.000	100	100	0.221	
38 13C-1,2,3,4,6,9-HxCDF	1.41e5	0.50	NO	1.00	1.000	34.14	1.000	100	100	0.396	
39 Total Tetra-Dioxins				1.05	1.000			0.488		0.0518	0.496
40 Total Penta-Dioxins				0.88	1.000			2.40		0.0555	2.87
41 Total Hexa-Dioxins				1.01	1.000			7.18		0.147	7.18
42 Total Hepta-Dioxins				1.07	1.000			2.36		0.109	2.36
43 Total Tetra-Furans				0.86	1.000			0.499		0.0261	0.499

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 2,3,7,8-TCDD	27.06	3.439e2	4.369e2	0.78	NO	0.49600	0.49615



Dataset: Untitled

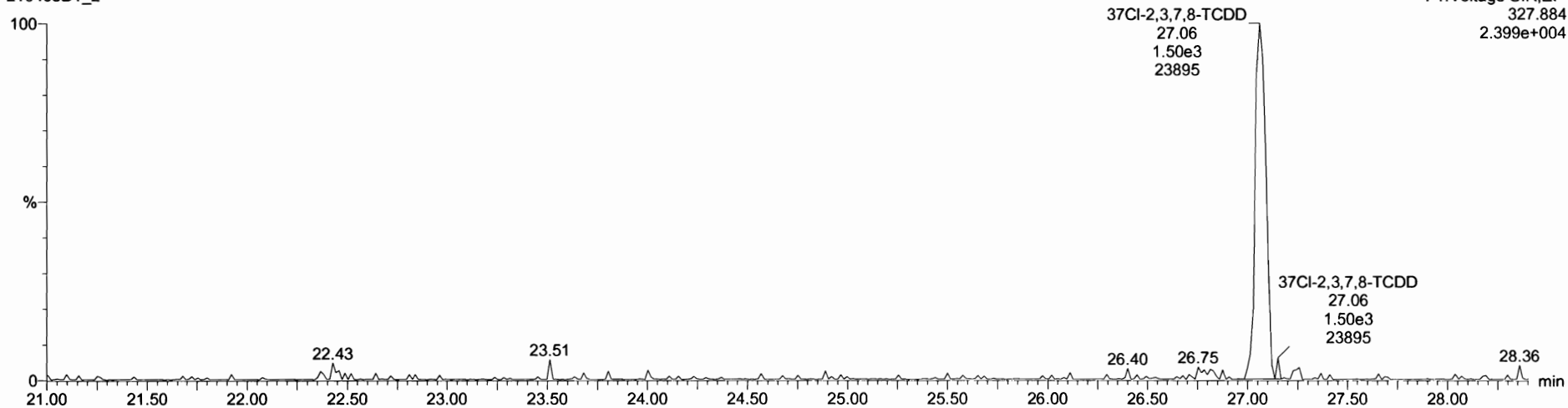
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_2, Date: 08-Apr-2021, Time: 09:21:02, ID: ST210408D1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

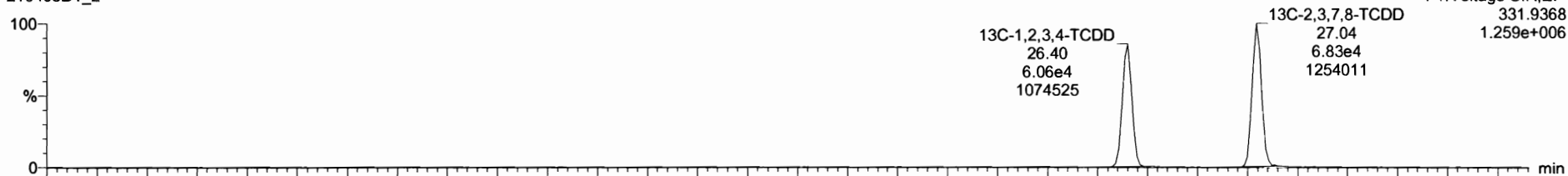
37Cl-2,3,7,8-TCDD

210408D1_2

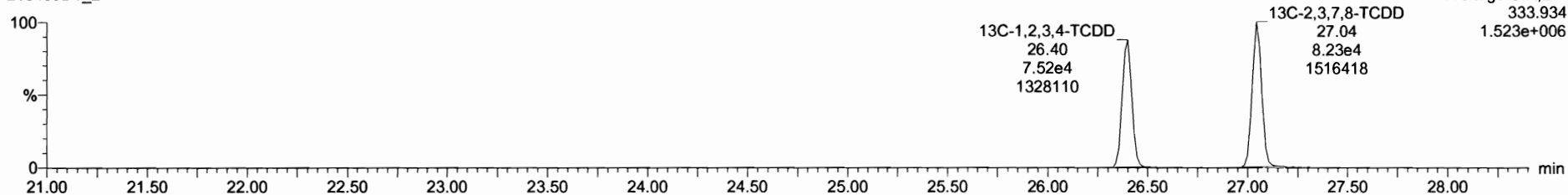


13C-1,2,3,4-TCDD

210408D1_2



210408D1_2



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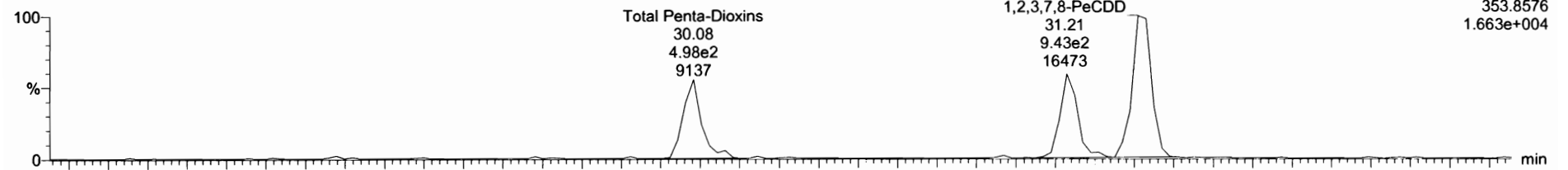
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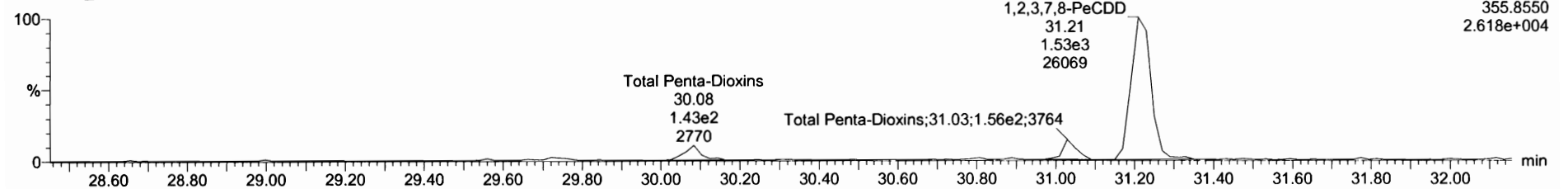
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1,2,3,7,8-PeCDD

210408D1_2

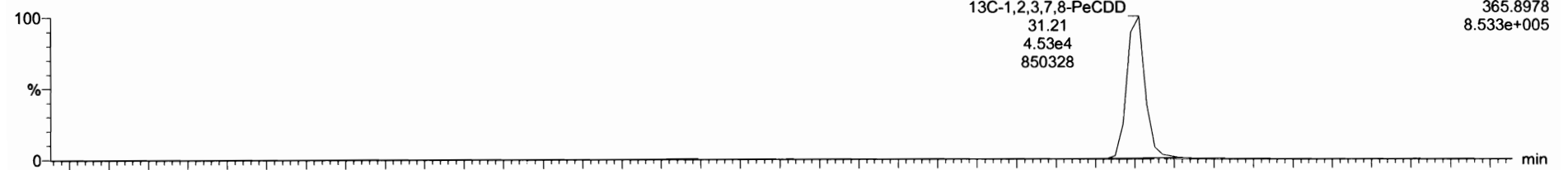


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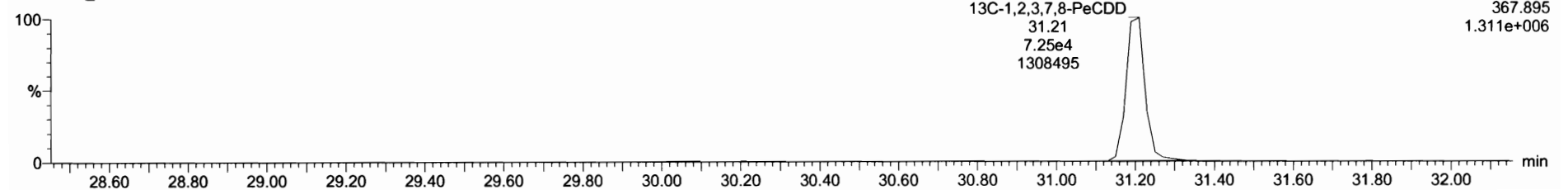


13C-1,2,3,7,8-PeCDD

210408D1_2

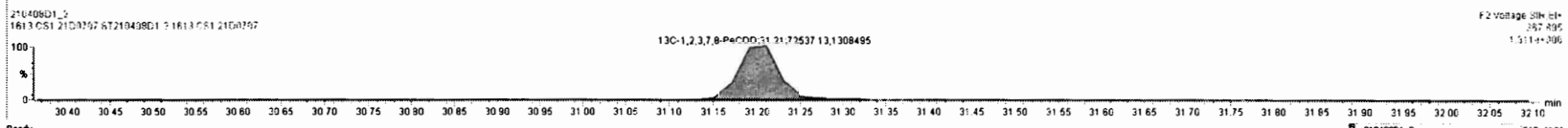
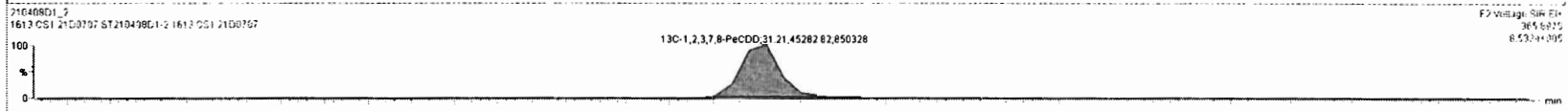
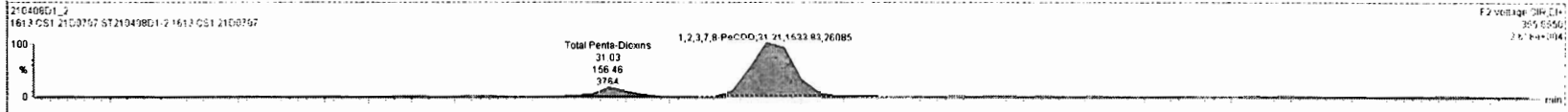
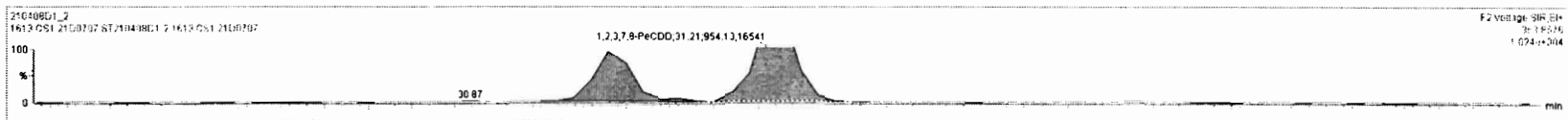


210408D1_2



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	2.20e5	0.77	NO	1.00	1.000	25.18	1.000	100	100	0.221	
38 13C-1,2,3,4,6,9-HxCDF	1.41e5	0.50	NO	1.00	1.000	34.14	1.000	100	100	0.396	
39 Total Tetra-Dioxins				1.05	1.000			0.496	0.0519	0.496	
40 Total Penta-Dioxins				0.88	1.000			2.40	0.0555	2.87	
41 Total Hexa-Dioxins				1.01	1.000			7.18	0.147	7.18	
42 Total Hepta-Dioxins				1.07	1.000			2.36	0.109	2.36	
43 Total Tetra-Furans				0.86	1.000			0.499	0.0261	0.499	

Name	RT	wt Resp	n2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-PeCDD	31.21	9.541e2	1.524e2	0.62	NO	2.2960	2.2961
2 Total Penta-Dioxins	31.03	5.018e2	1.565e2	3.21	YES	0.24600	0.00000
3 Total Penta-Dioxins	30.08	4.980e2	1.427e2	3.49	YES	0.22400	0.00000



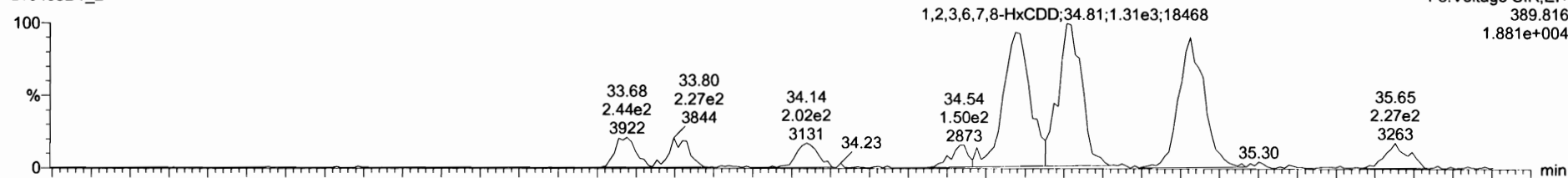
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

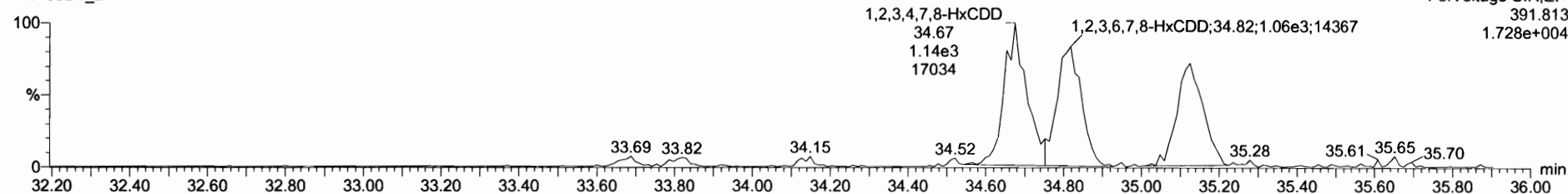
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1,2,3,4,7,8-HxCDD

210408D1_2

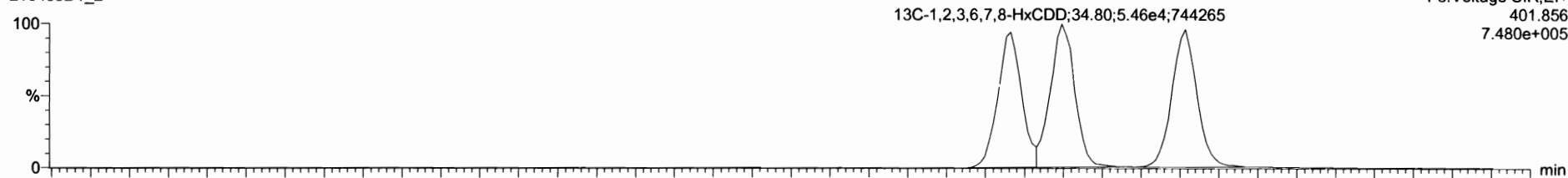


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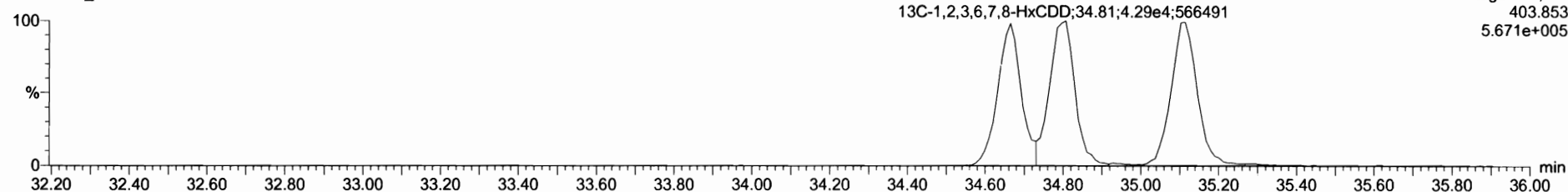


13C-1,2,3,4,7,8-HxCDD

210408D1_2



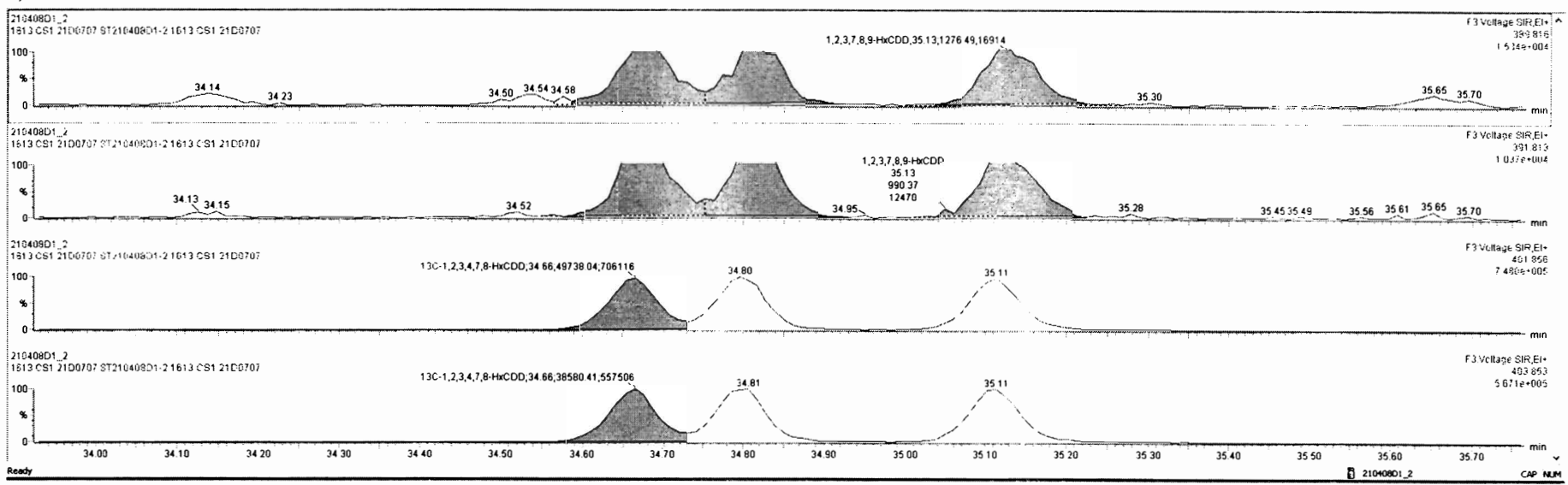
210408D1_2



210408D1_2 - ST210408D1-2 1613 CS1 21D0707 - 1613 CS1 21D0707

Name	Resp	RA	nly	RRF	wAvd	RT	RRT	Conc	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	2.20e5	0.77	NO	1.00	1.000	25.18	1.000	100	100	0.221	
38 13C-1,2,3,4,6,8-HxCDF	1.41e5	0.50	NO	1.00	1.000	34.14	1.000	100	100	0.396	
39 Total Tetra-Dioxins				1.05	1.000			0.496		0.0519	0.496
40 Total Penta-Dioxins				0.88	1.000			2.40		0.0555	2.87
41 Total Hexa-Dioxins				1.01	1.000			7.18		0.147	7.18
42 Total Hepta-Dioxins				1.07	1.000			2.36		0.109	2.36
43 Total Tetra-Furans				0.96	1.000			0.499		0.0261	0.499

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,7,8,9-HxCDD	35.13	1.276e3	9.904e2	1.29	NO	2.2720	2.2724
2 1,2,3,6,7,8-HxCDD	34.81	1.309e3	1.055e3	1.24	NO	2.4000	2.3996
3 1,2,3,4,7,8-HxCDD	34.67	1.384e3	1.148e3	1.21	NO	2.5090	2.5088



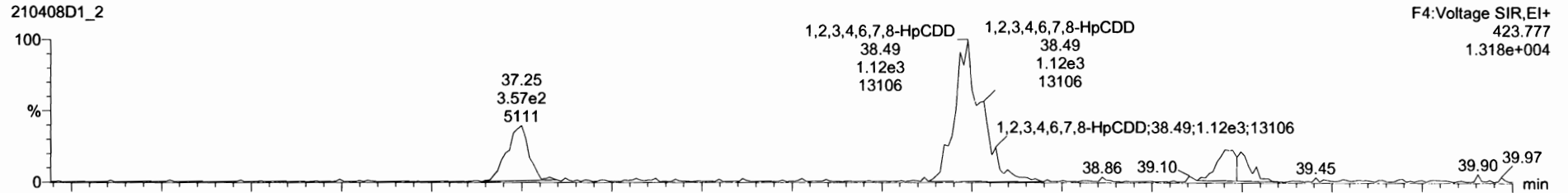
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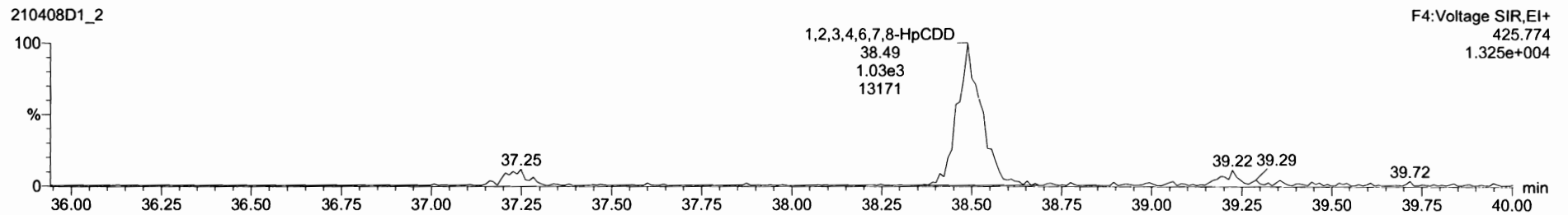
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1,2,3,4,6,7,8-HpCDD

210408D1_2

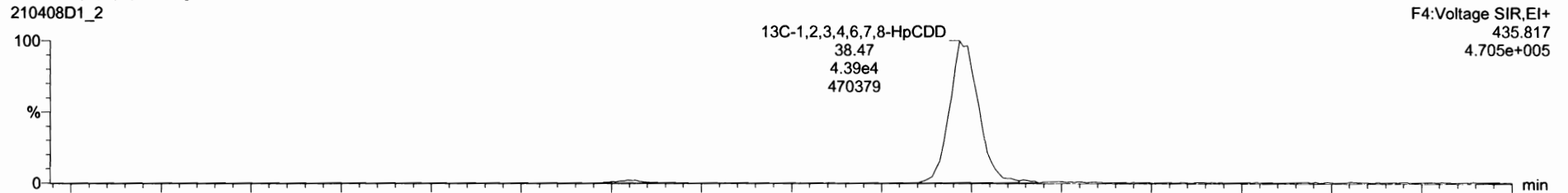


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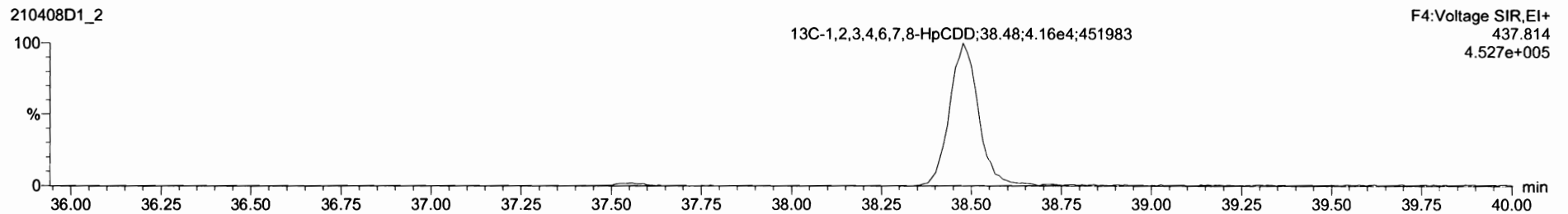


13C-1,2,3,4,6,7,8-HpCDD

210408D1_2



210408D1_2

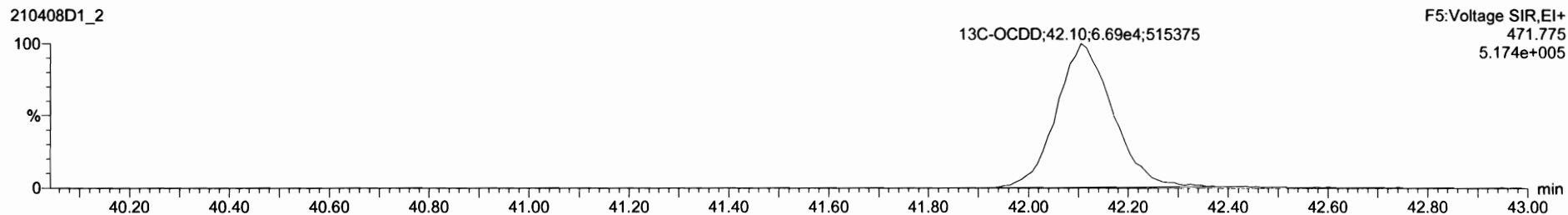
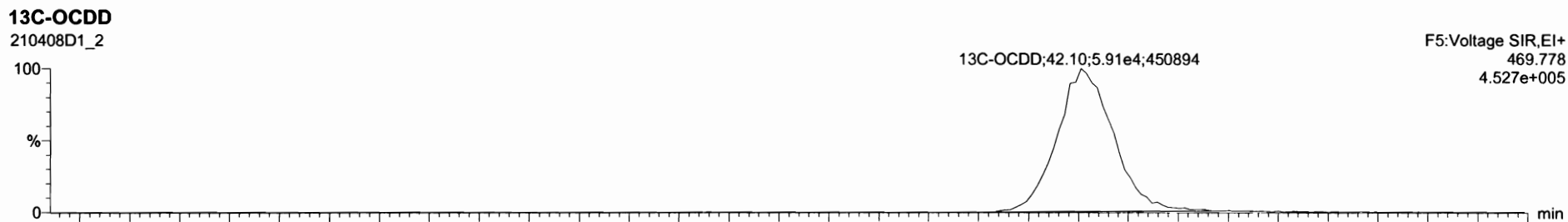
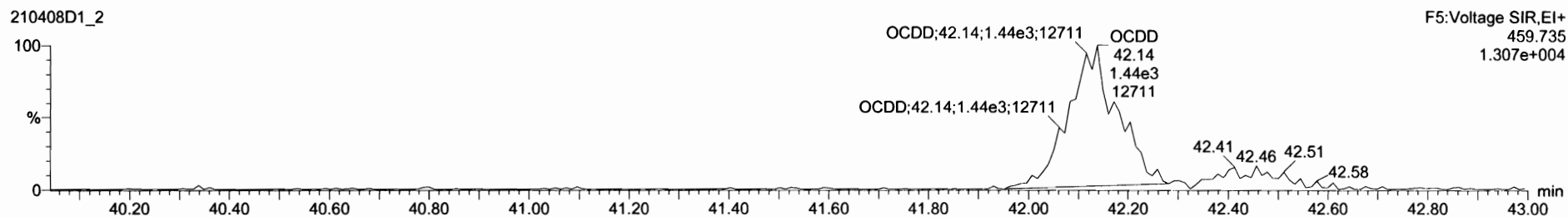
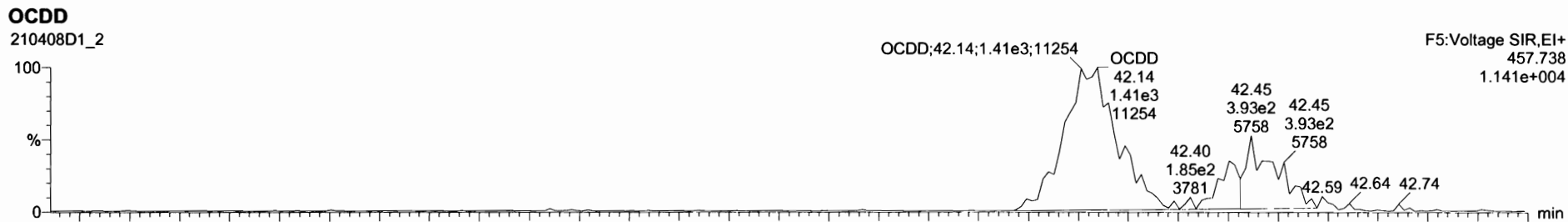


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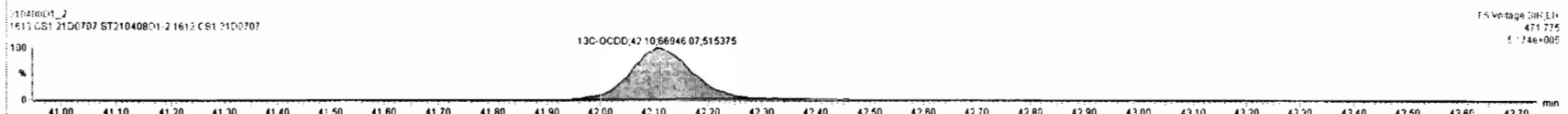
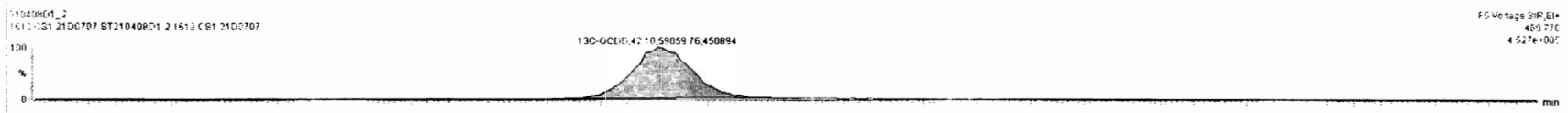
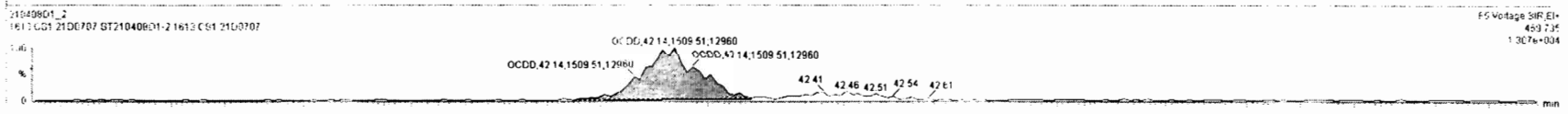
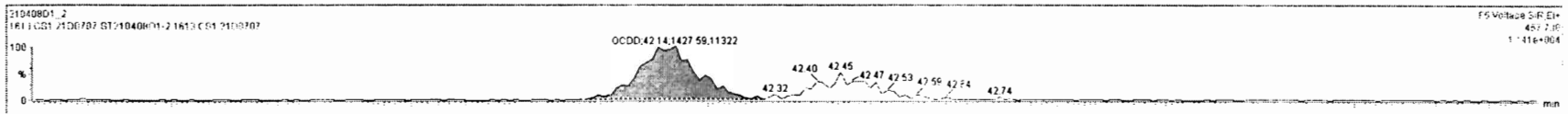
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Name: 210408D1_2, Date: 08-Apr-2021, Time: 09:21:02, ID: ST210408D1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707



Name	Resp	RA	n/y	R/F	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
2,3,7,8-TCDD	7.83e2	0.78	NO	1.05	1.000	27.06	1.001	0.496	99.2	0.0519	0.496
1,2,3,7,8-PeCDD	2.49e3	0.62	NO	0.88	1.000	31.21	1.000	2.40	95.6	0.0555	2.40
1,2,3,4,7,8-HxCDD	2.53e3	1.21	NO	1.14	1.000	34.67	1.000	2.51	100	0.135	2.51
1,2,3,6,7,8-HxCDD	2.36e3	1.24	NO	1.01	1.000	34.81	1.000	2.40	96.0	0.144	2.40
1,2,3,7,8,9-HxCDD	2.27e3	1.29	NO	1.02	1.000	35.13	1.000	2.27	90.9	0.145	2.27
1,2,3,4,6,7,8-HxCDD	2.15e3	1.09	NO	1.07	1.000	36.49	1.001	2.36	94.3	0.100	2.36
OCDD	2.84e3	0.96	NO	1.00	1.000	42.14	1.001	4.65	83.0	0.002	4.65

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



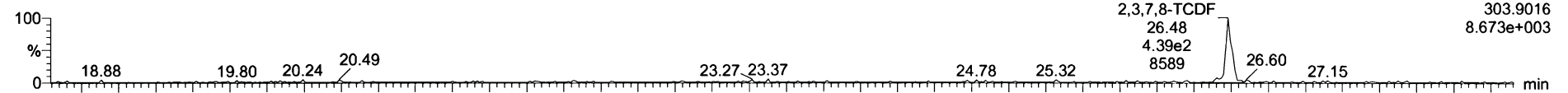
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
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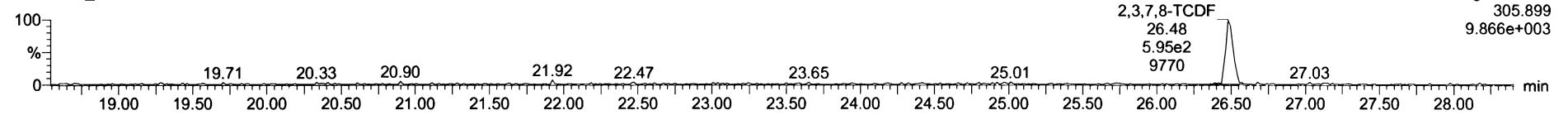
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2,3,7,8-TCDF

210408D1_2

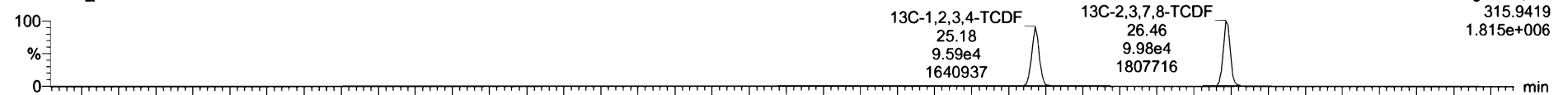


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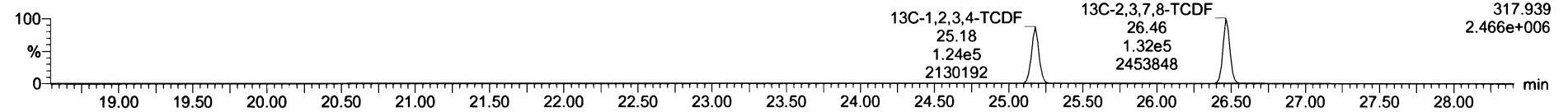


13C-2,3,7,8-TCDF

210408D1_2

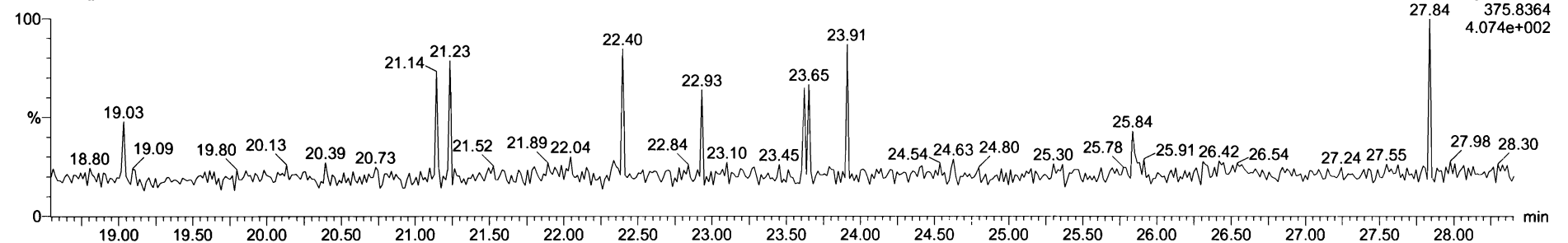


210408D1_2



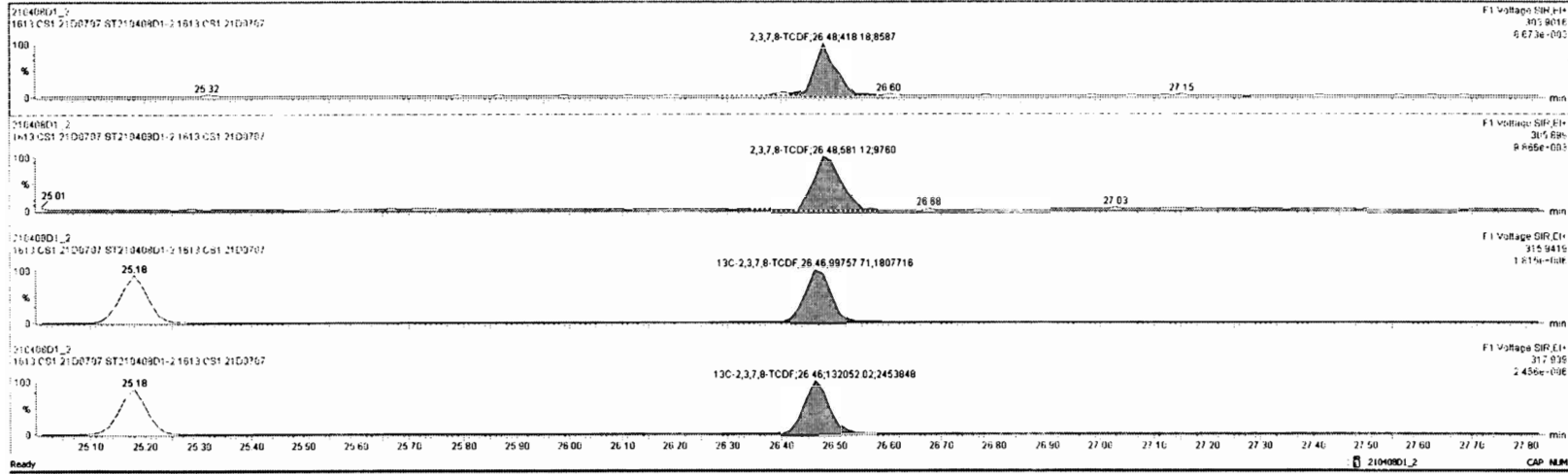
DPE1

210408D1_2



Name	Resp	RA	nly	RRF	wInd	RT	RRT	Conc	%Rec	DL	EMPC
37 13C-1,2,3,4-TCDF	2.20e5	0.77	NO	1.00	1.000	25.18	1.000	100	100	0.221	
38 13C-1,2,3,4,6,9,10-TCDF	1.41e5	0.50	NO	1.00	1.000	34.14	1.000	100	100	0.396	
39 Total Tetra-Dioxins				1.05	1.000			0.496		0.0519	0.496
40 Total Penta-Dioxins				0.88	1.000			2.40		0.0555	2.87
41 Total Hexa-Dioxins				1.01	1.000			7.18		0.147	7.18
42 Total Hepta-Dioxins				1.07	1.000			2.36		0.109	2.36
43 Total Tetra-Furans				0.86	1.000			0.499		0.0261	0.499

Name	RT	int Resp	nt Resp	RA	nly	EMPC	Conc
1 2,3,7,8-TCDF	26.48	4.162e2	5.811e2	0.72	NO	0.49900	0.49912



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

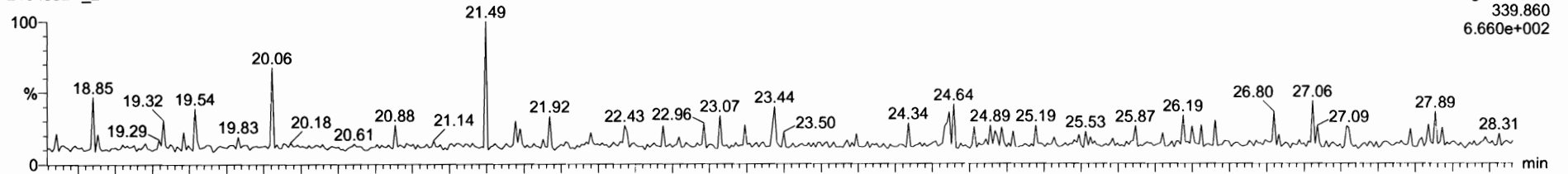
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_2, Date: 08-Apr-2021, Time: 09:21:02, ID: ST210408D1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

1st Func. Penta-Furans

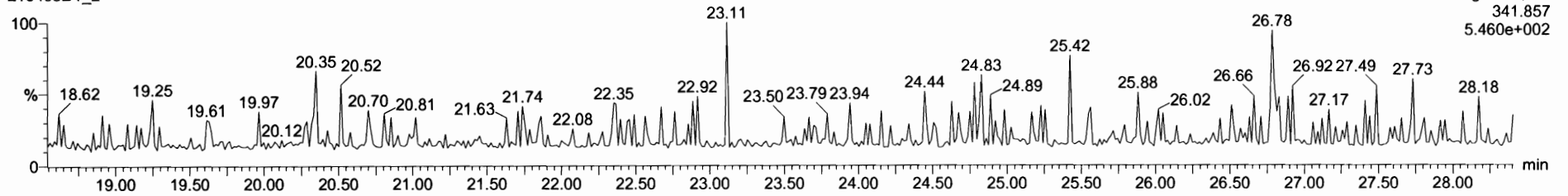
210408D1_2

F1:Voltage SIR,EI+
339.860
6.660e+002



210408D1_2

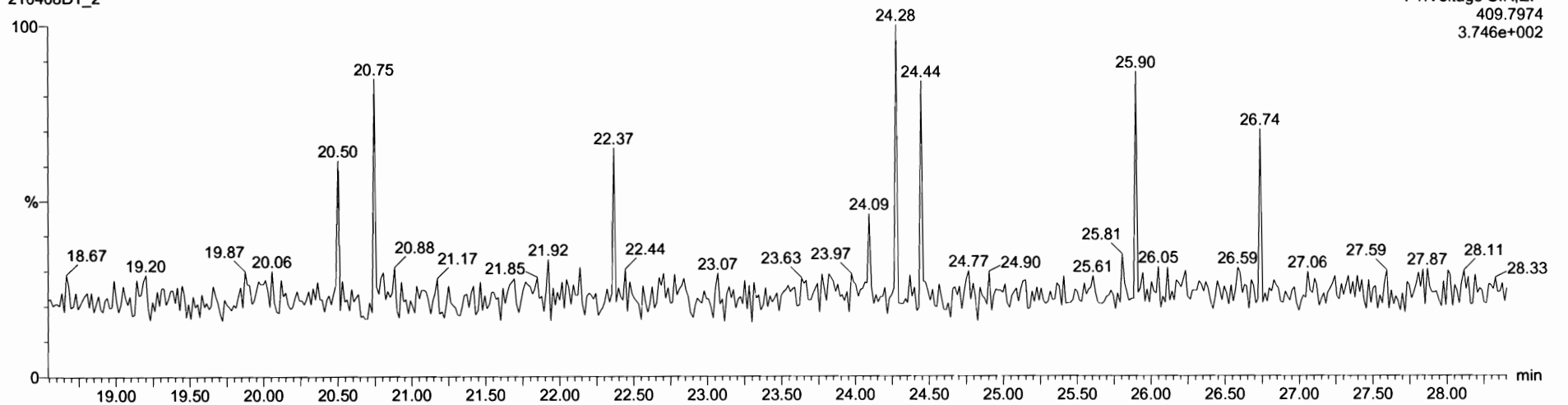
F1:Voltage SIR,EI+
341.857
5.460e+002



DPE6

210408D1_2

F1:Voltage SIR,EI+
409.7974
3.746e+002



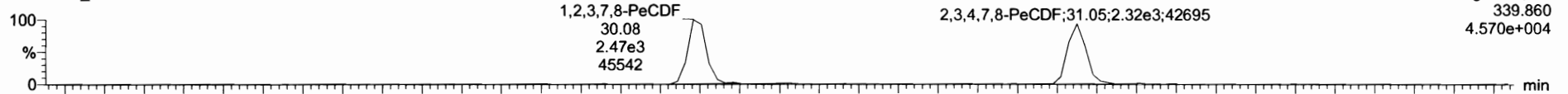
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

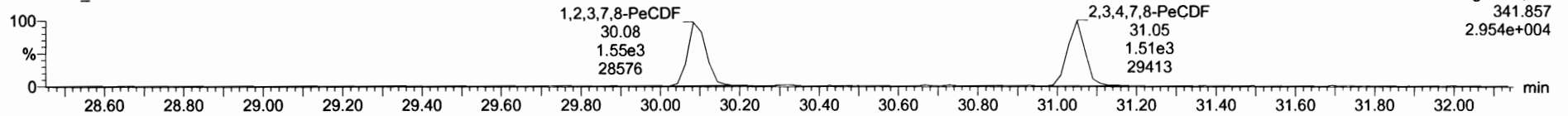
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1,2,3,7,8-PeCDF

210408D1_2

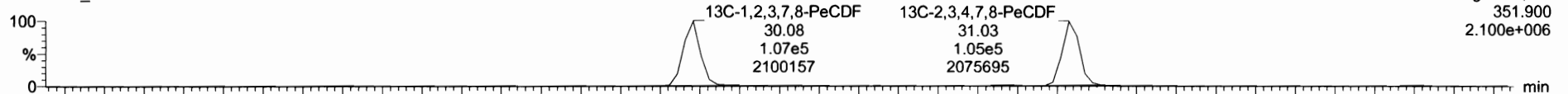


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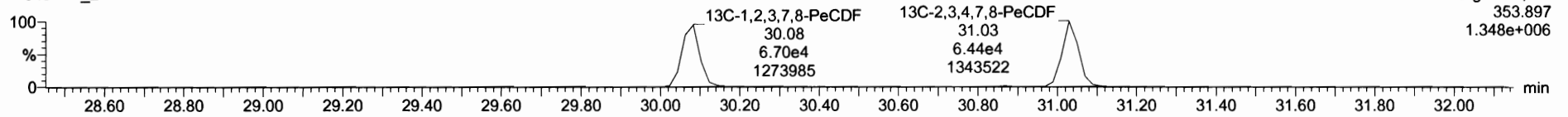


13C-1,2,3,7,8-PeCDF

210408D1_2

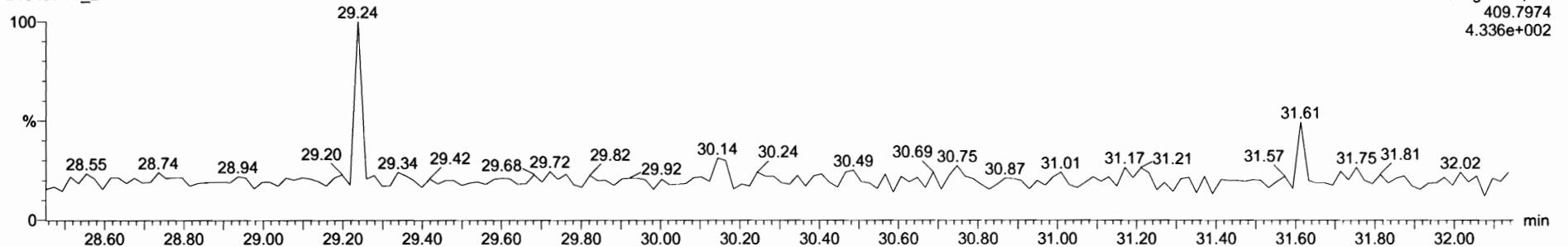


210408D1_2



DPE2

210408D1_2



Dataset: Untitled

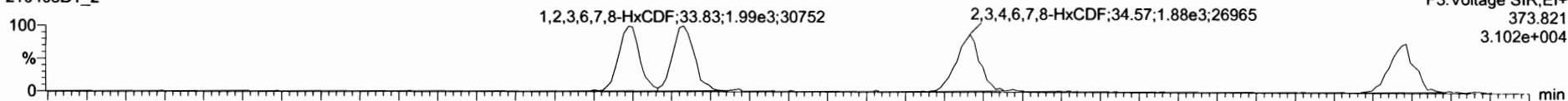
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

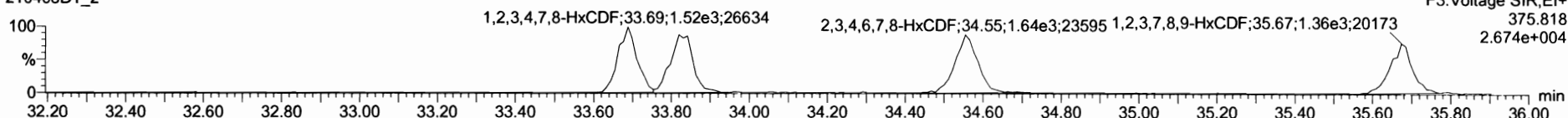
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1,2,3,4,7,8-HxCDF

210408D1_2

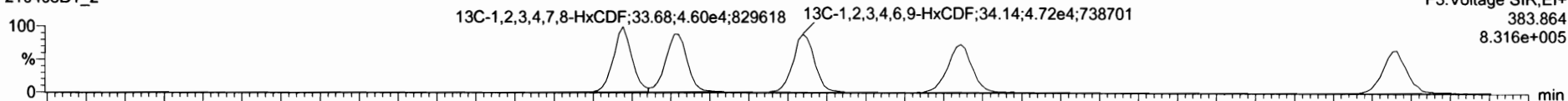


210408D1_2

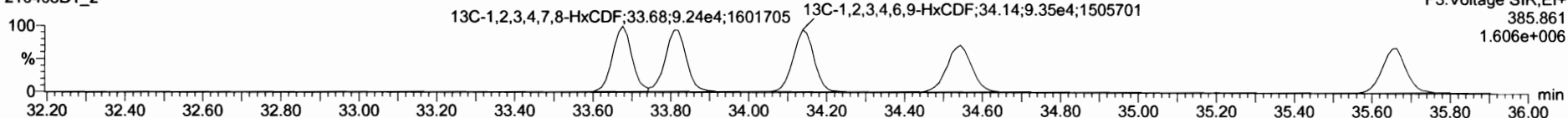


13C-1,2,3,4,7,8-HxCDF

210408D1_2

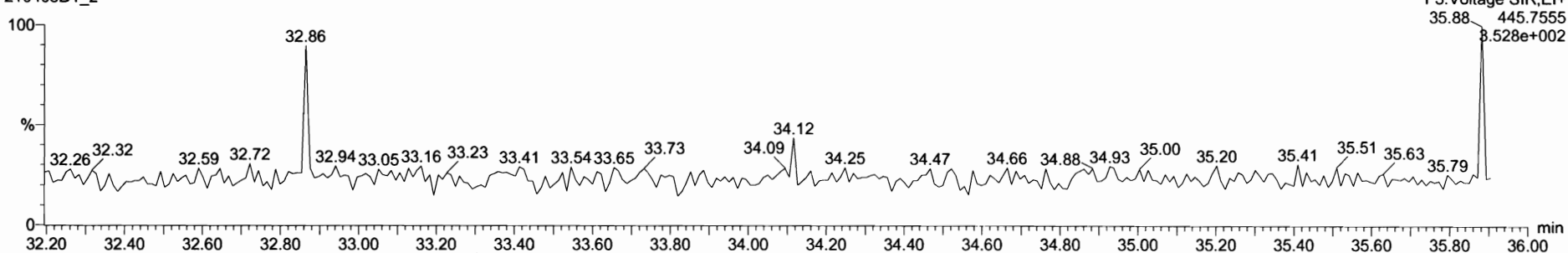


210408D1_2



DPE3

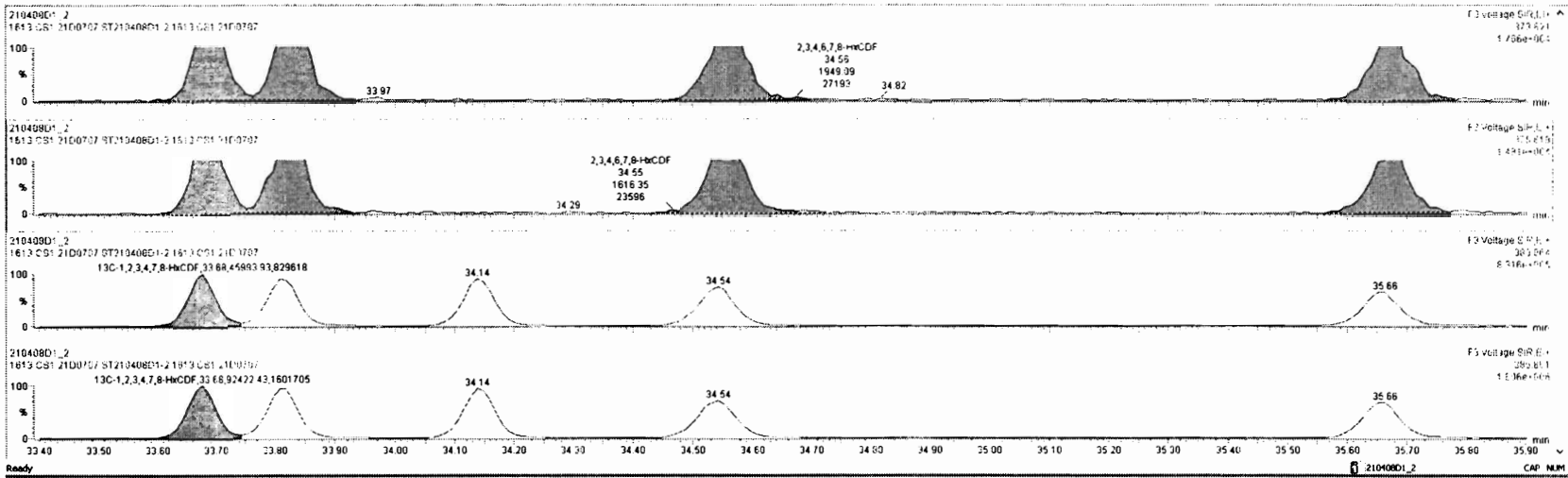
210408D1_2



21040BD1_2 - ST21340BD1-2 1613 CS1 2100707 - 1613 CS1 2100707

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.95	1.000			4.61		0.0475	4.61
46 Total Hexa-Furans				1.12	1.000			9.63		0.0997	9.63
47 Total Hepta-Furans				1.16	1.000			4.71		0.117	4.71
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-HxCDF	35.69	1.753e3	1.353e3	1.26	NO	2.3750	2.3751
2 2,3,4,6,7,8-HxCDF	34.56	1.949e3	1.615e3	1.21	NO	2.4770	2.4765
3 1,2,3,6,7,8-HxCDF	33.83	2.029e3	1.621e3	1.26	NO	2.3650	2.3650
4 1,2,3,4,7,8-HxCDF	33.69	1.953e3	1.527e3	1.28	NO	2.4100	2.4103



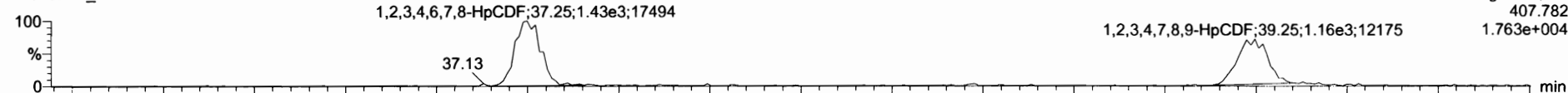
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_2, Date: 08-Apr-2021, Time: 09:21:02, ID: ST210408D1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

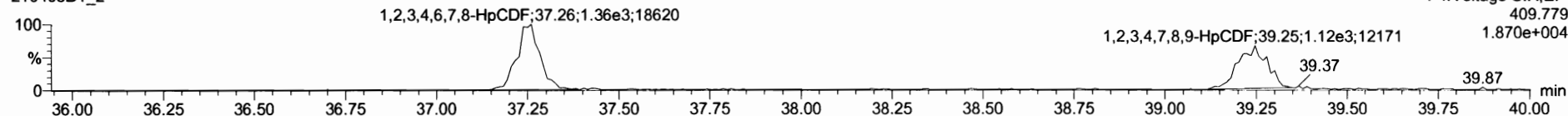
1,2,3,4,6,7,8-HpCDF

210408D1_2



F4: Voltage SIR, EI+
407.782
1.763e+004

210408D1_2



F4: Voltage SIR, EI+
409.779
1.870e+004

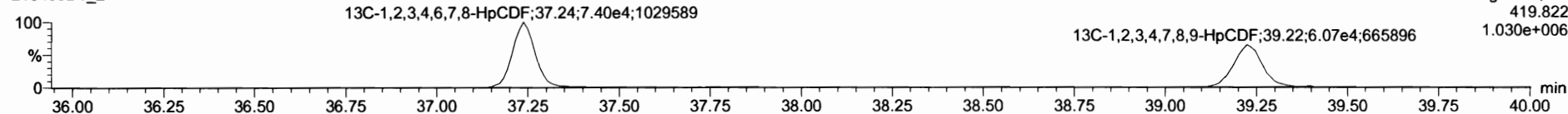
13C-1,2,3,4,6,7,8-HpCDF

210408D1_2



F4: Voltage SIR, EI+
417.825
4.112e+005

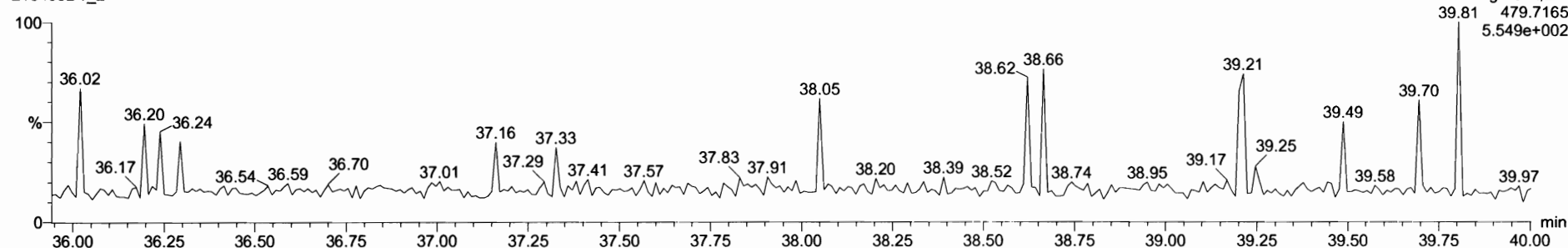
210408D1_2



F4: Voltage SIR, EI+
419.822
1.030e+006

DPE4

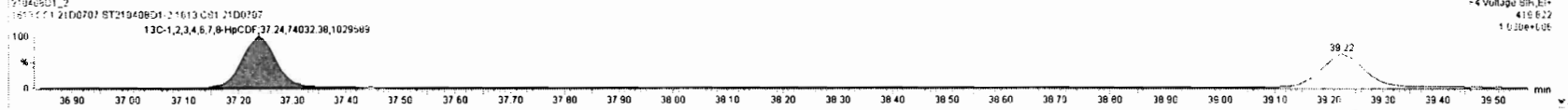
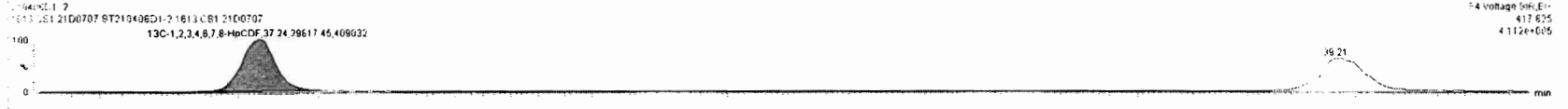
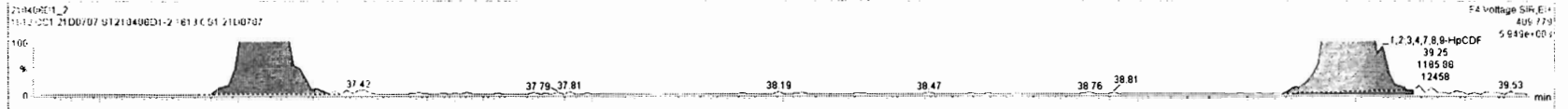
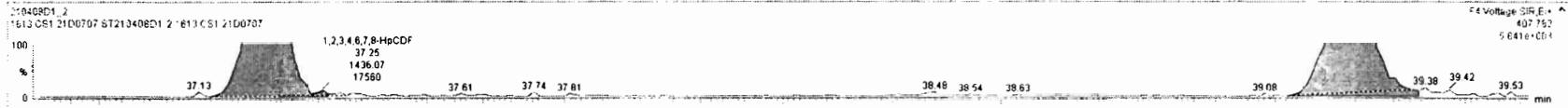
210408D1_2



F4: Voltage SIR, EI+
479.7165
5.549e+002

Name	Resp	RA	nly	RRF	wt%ol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.95	1.000			4.61	0.0475		4.61
46 Total Hexa-Furans				1.12	1.000			9.63	0.0997		9.63
47 Total Hepta-Furans				1.16	1.000			4.71	0.117		4.71
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

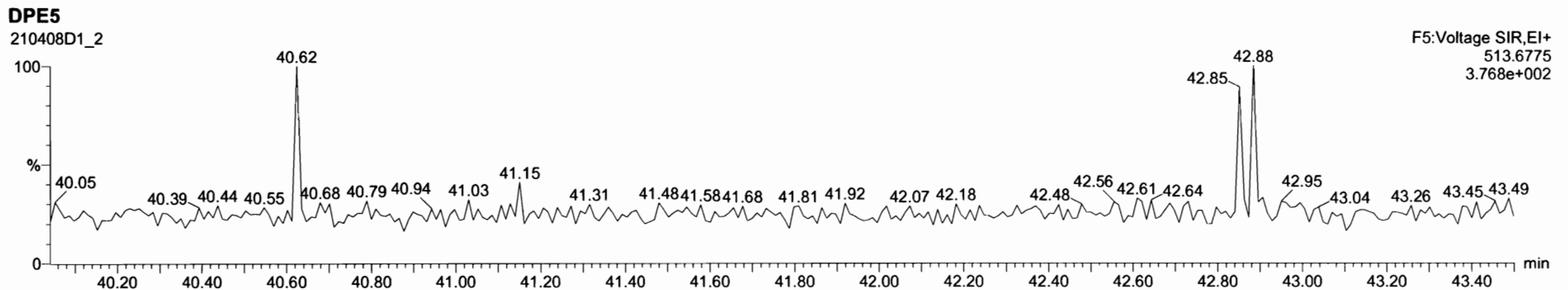
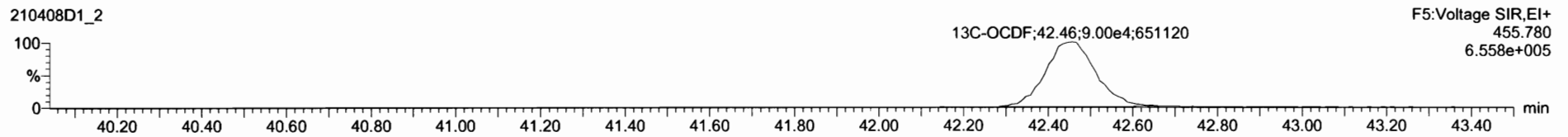
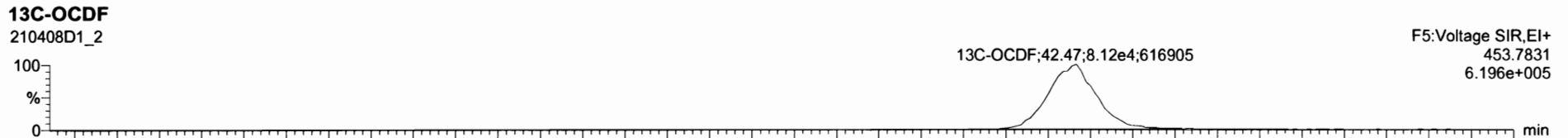
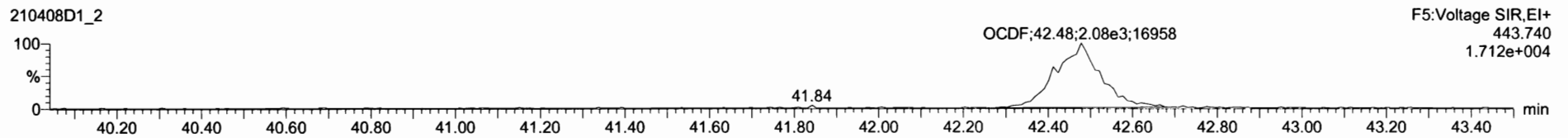
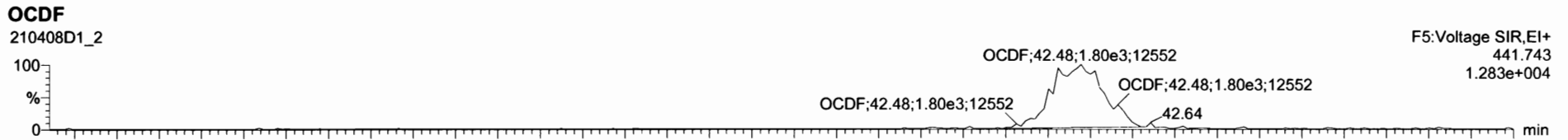
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,7,8,9-HpCDF	39.25	1.248e3	1.186e3	1.05	NO	2.3870	2.3870
2 1,2,3,4,6,7,8-HpCDF	37.25	1.436e3	1.360e3	1.06	NO	2.3210	2.3213



Dataset: Untitled

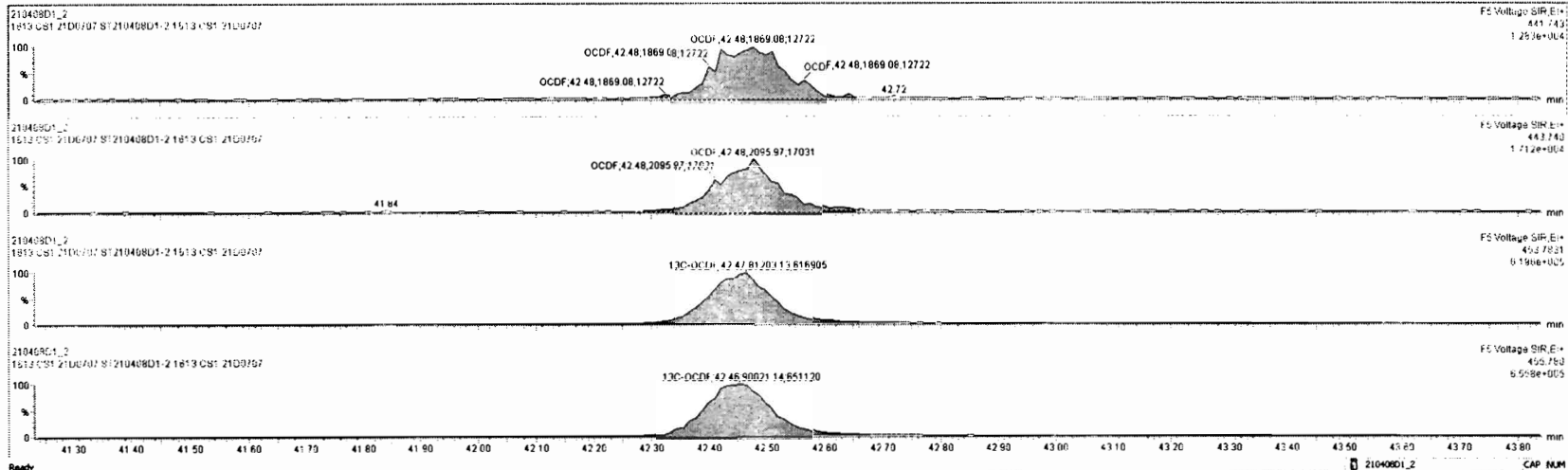
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_2, Date: 08-Apr-2021, Time: 09:21:02, ID: ST210408D1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707



Name	Resp	RA	nly	RRF	wAdj	RT	RRT	Conc	%Rec	DL	EMPC
17 OCDF	3.97e3	0.88	NO	0.91	1.000	42.48	1.000	5.10	102	0.345	5.10
18 13C-2,3,7,8-13CDO	1.51e5	0.83	NO	1.15	1.000	27.04	1.024	96.7	96.7	0.240	
19 13C-1,2,3,7,8-HeCDO	1.18e5	0.62	NO	0.89	1.000	31.21	1.182	97.8	97.8	0.222	
20 13C-1,2,3,7,8-HeCDO	8.83e4	1.29	NO	0.85	1.000	34.66	1.015	97.2	97.2	0.272	
21 13C-1,2,3,7,8-HeCDO	9.75e4	1.27	NO	0.72	1.000	34.80	1.019	96.7	96.7	0.245	
22 13C-1,2,3,7,8-HeCDO	9.79e4	1.23	NO	0.71	1.000	35.11	1.028	97.4	97.4	0.246	
23 13C-1,2,3,4,6,7,8-HeCDO	8.55e4	1.05	NO	0.58	1.000	39.47	1.127	104	104	0.620	

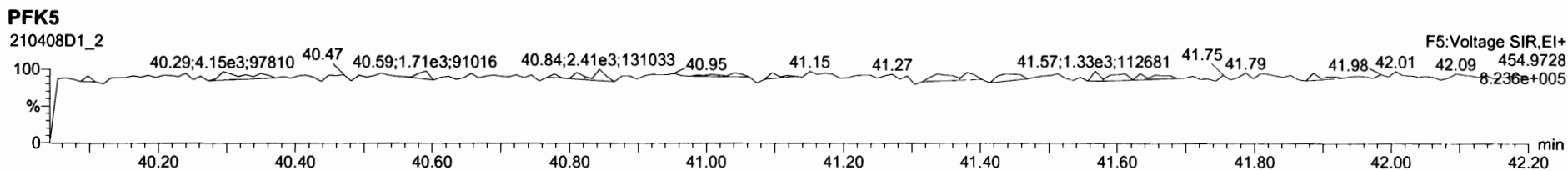
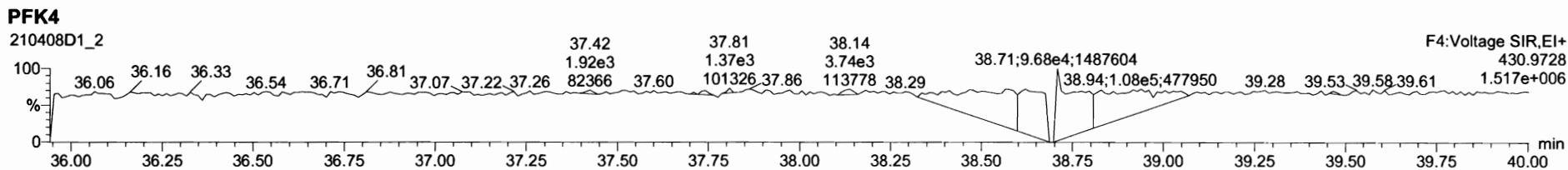
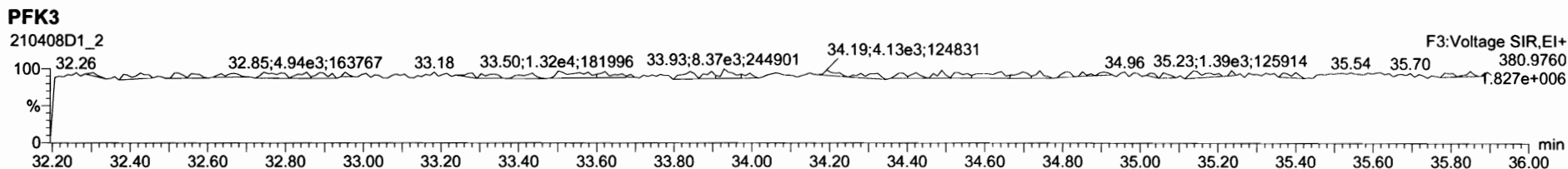
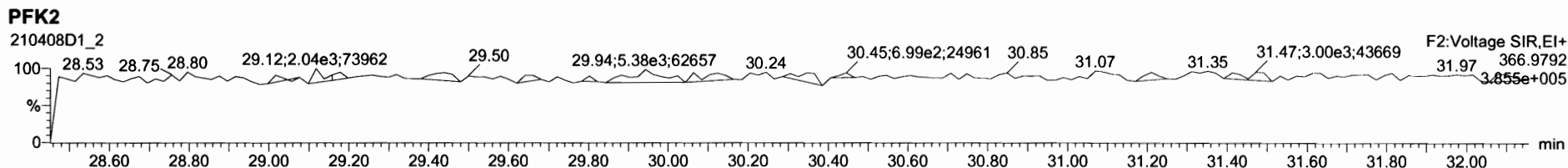
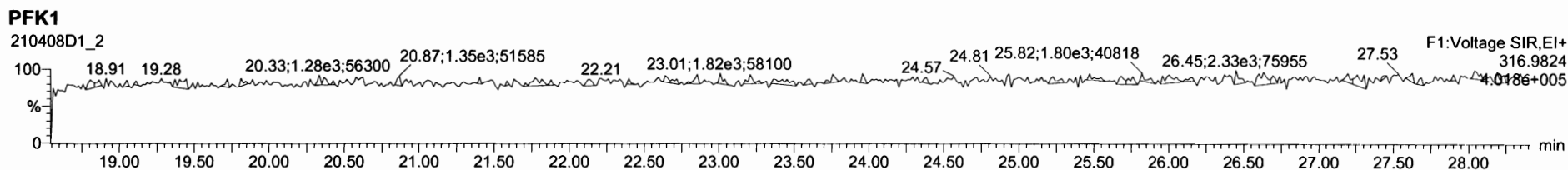
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1							



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_2, Date: 08-Apr-2021, Time: 09:21:02, ID: ST210408D1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707



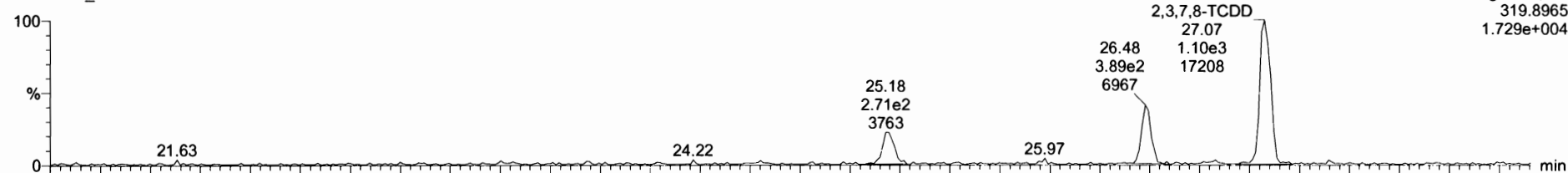
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

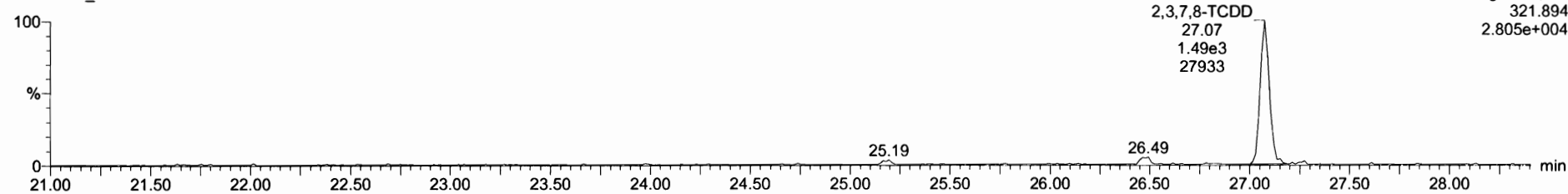
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2,3,7,8-TCDD

210408D1_3

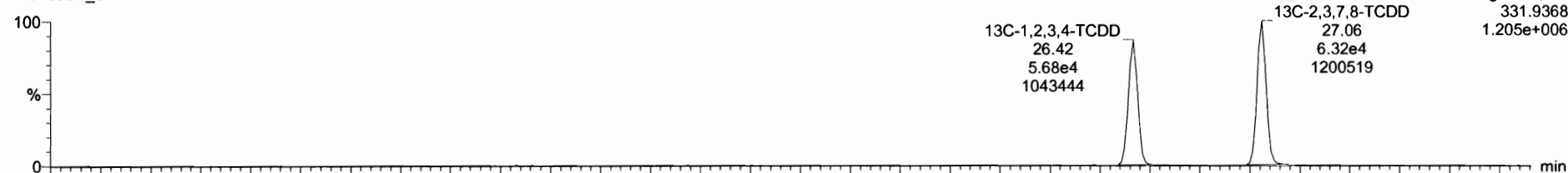


210408D1_3

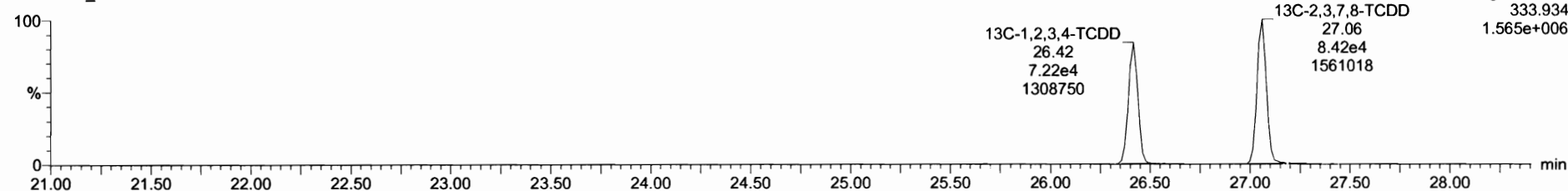


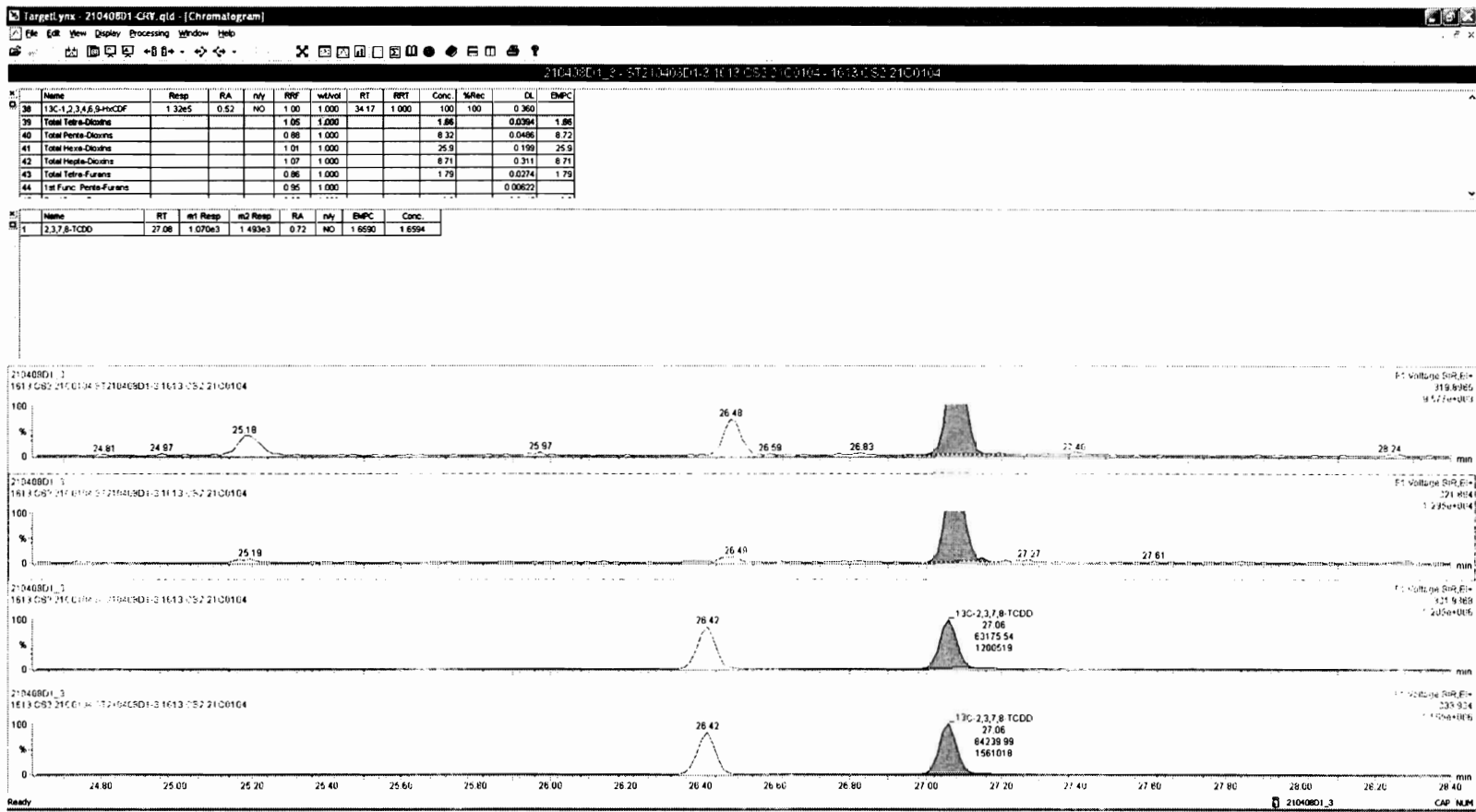
13C-2,3,7,8-TCDD

210408D1_3



210408D1_3





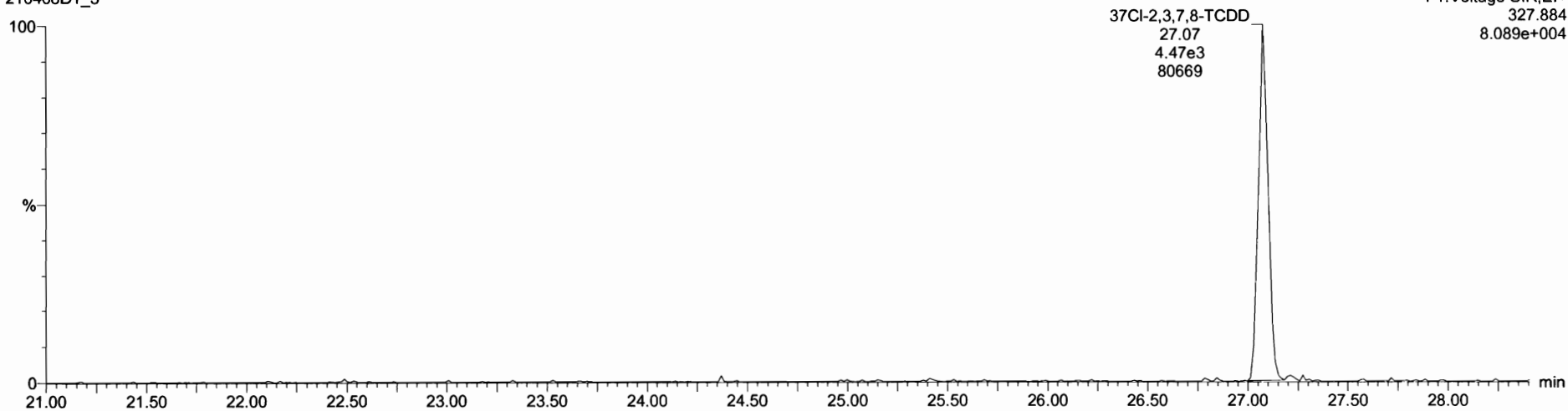
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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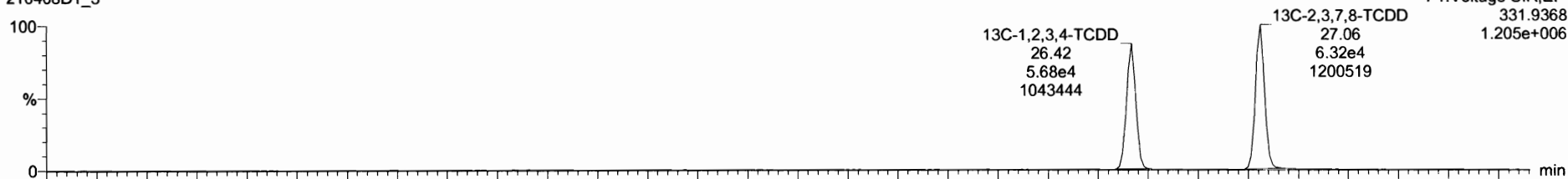
37Cl-2,3,7,8-TCDD

210408D1_3

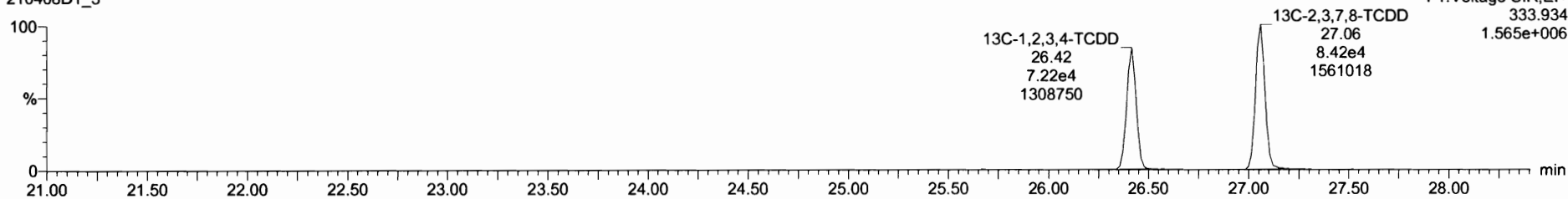


13C-1,2,3,4-TCDD

210408D1_3



210408D1_3



Dataset: Untitled

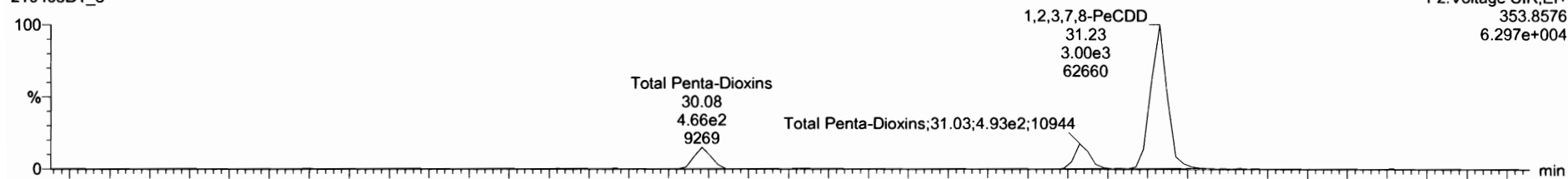
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_3, Date: 08-Apr-2021, Time: 10:06:35, ID: ST210408D1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

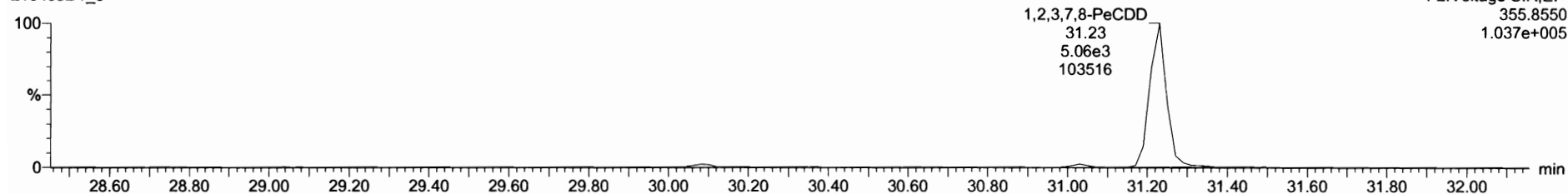
1,2,3,7,8-PeCDD

210408D1_3



F2:Voltage SIR,EI+
353.8576
6.297e+004

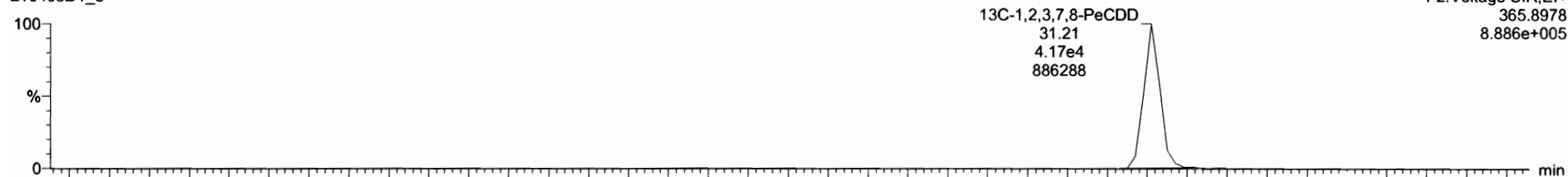
210408D1_3



F2:Voltage SIR,EI+
355.8550
1.037e+005

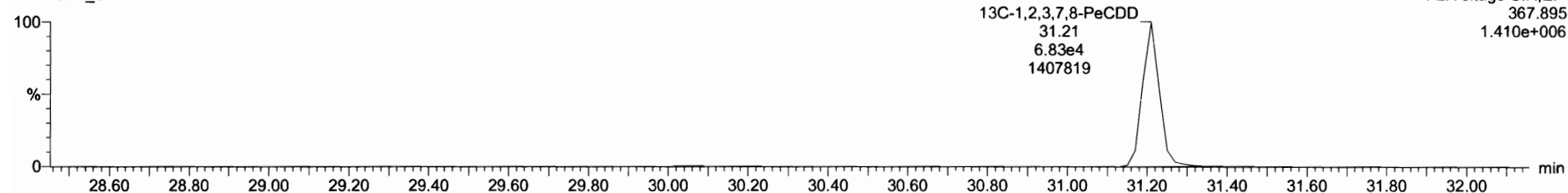
13C-1,2,3,7,8-PeCDD

210408D1_3



F2:Voltage SIR,EI+
365.8978
8.886e+005

210408D1_3



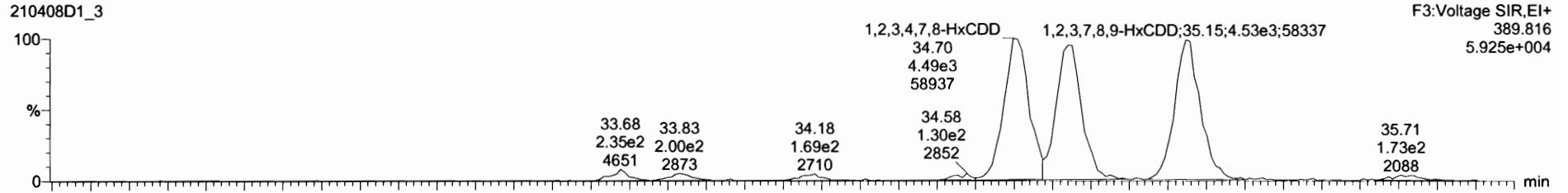
F2:Voltage SIR,EI+
367.895
1.410e+006

Dataset: Untitled

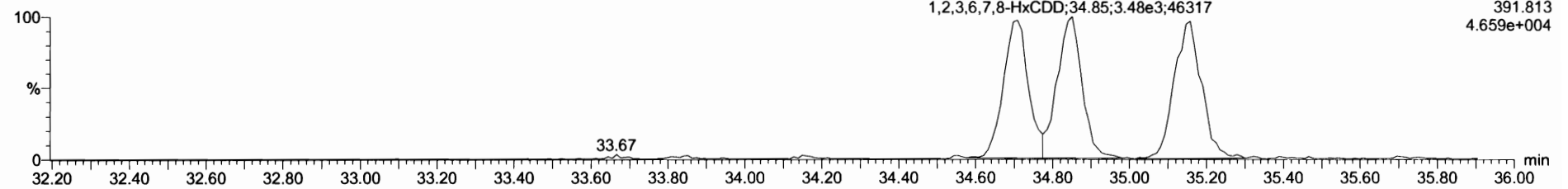
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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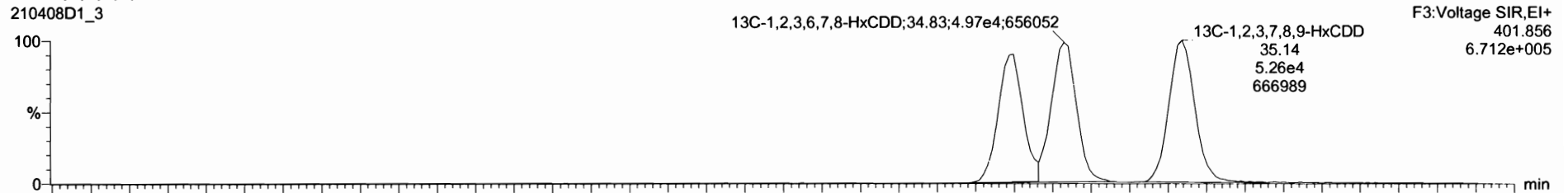
1,2,3,4,7,8-HxCDD



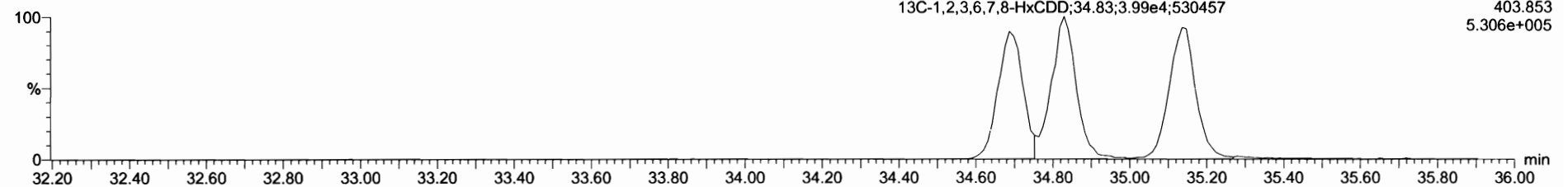
210408D1_3



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



210408D1_3



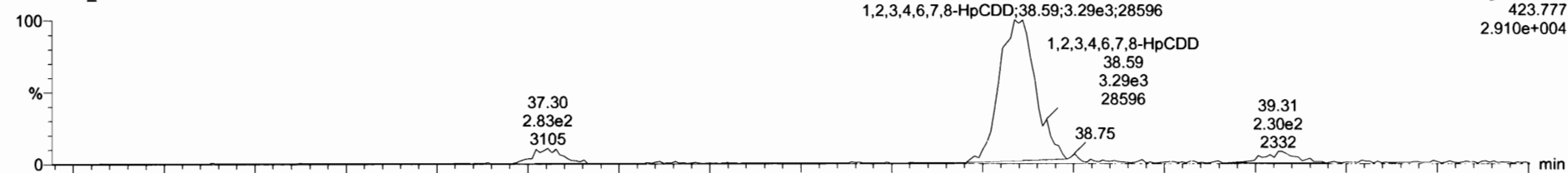
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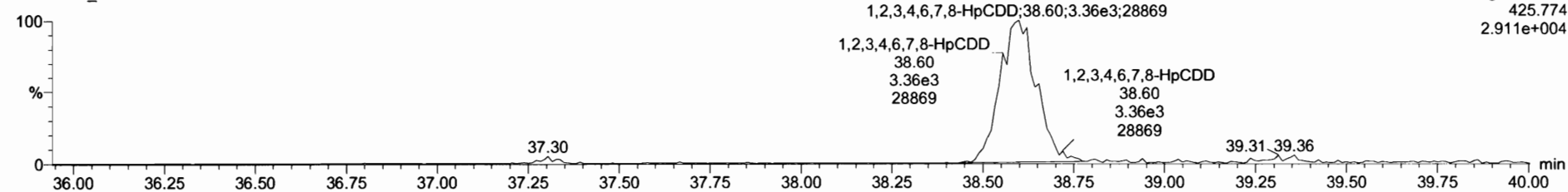
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1,2,3,4,6,7,8-HpCDD

210408D1_3

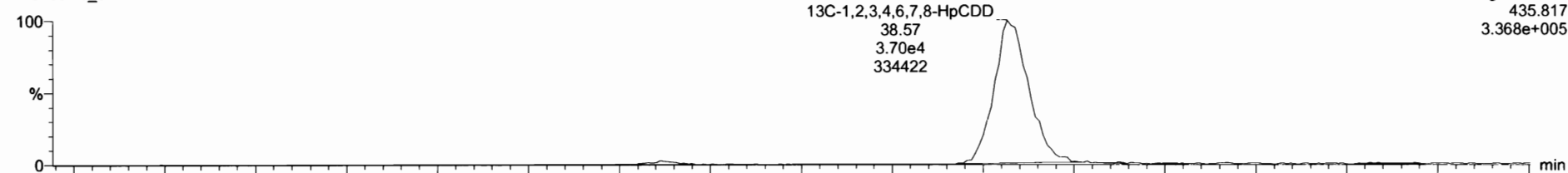


210408D1_3

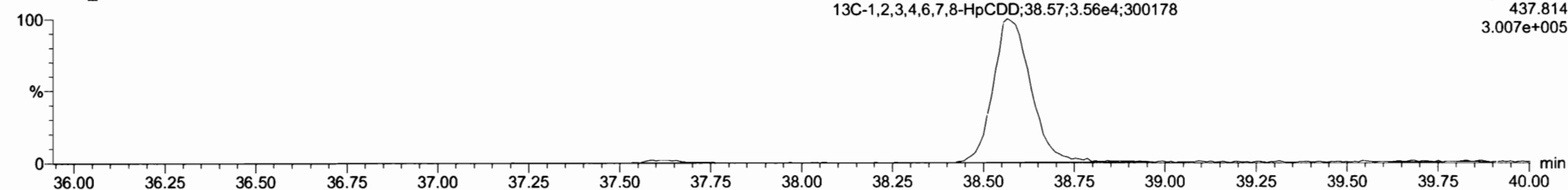


13C-1,2,3,4,6,7,8-HpCDD

210408D1_3

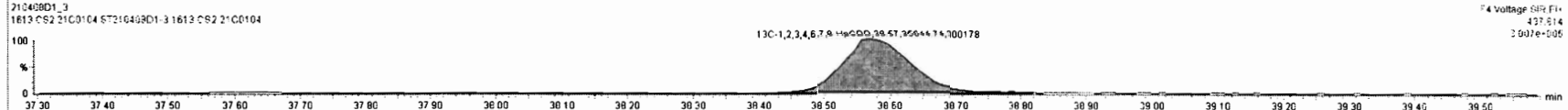
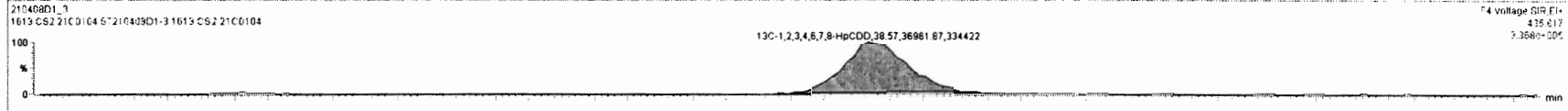
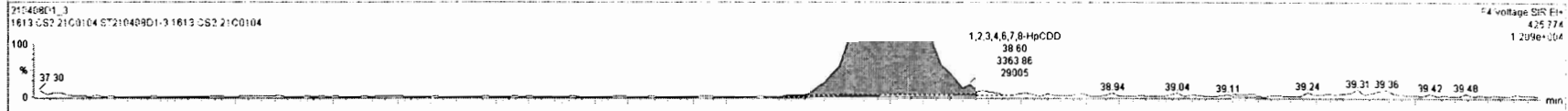
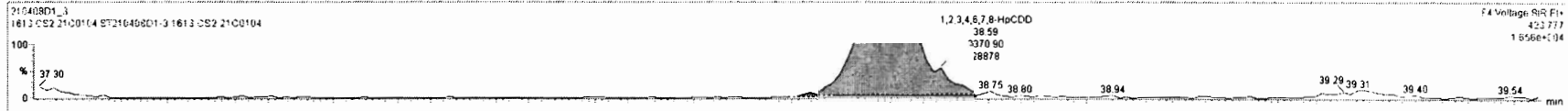


210408D1_3



Name	Resp	RA	rvy	RRF	wtAvl	RT	PRT	Conc	%Rec	DL	EMPC
36 13C-1,2,3,4,6,8-HxCDF	1.32e5	0.52	NO	1.00	1.000	34.17	1.000	100	100	0.360	
39 Total Tetra-Dioxins				1.05	1.000			1.66		0.0394	1.66
40 Total Penta-Dioxins				0.88	1.000			8.32		0.0486	8.72
41 Total Hexa-Dioxins				1.01	1.000			25.9		0.199	25.9
42 Total Hepta-Dioxins				1.07	1.000			8.71		0.311	8.71
43 Total Tetra-Furans				0.86	1.000			1.79		0.0274	1.79
44 1st Func. Penta-Furans				0.95	1.000					0.00822	

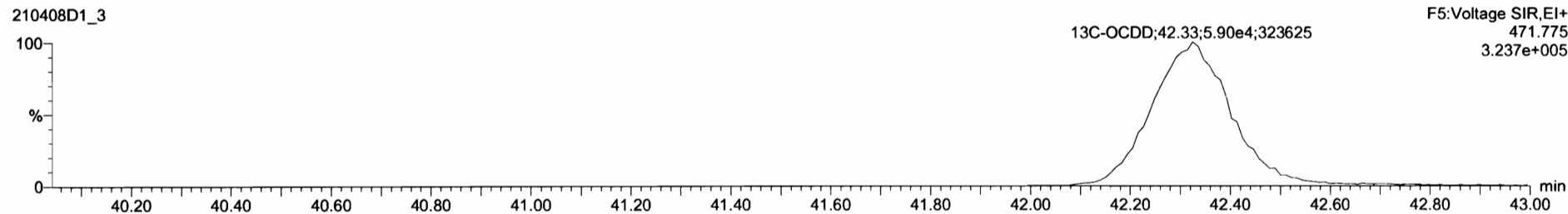
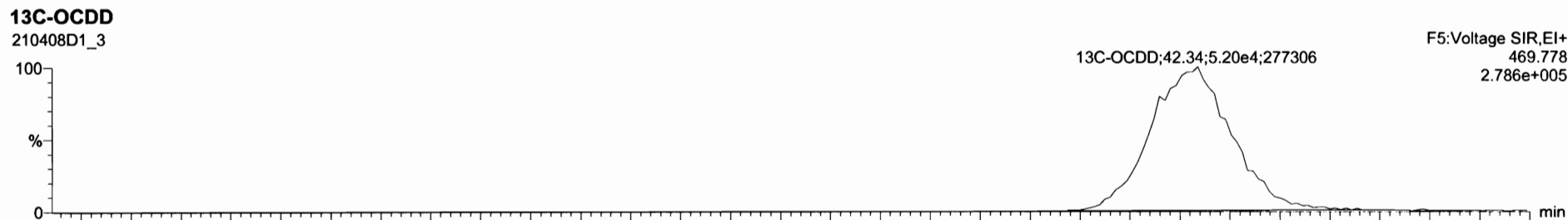
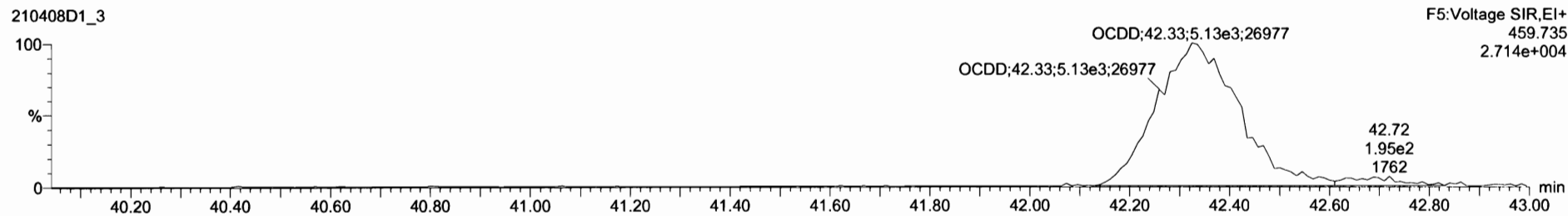
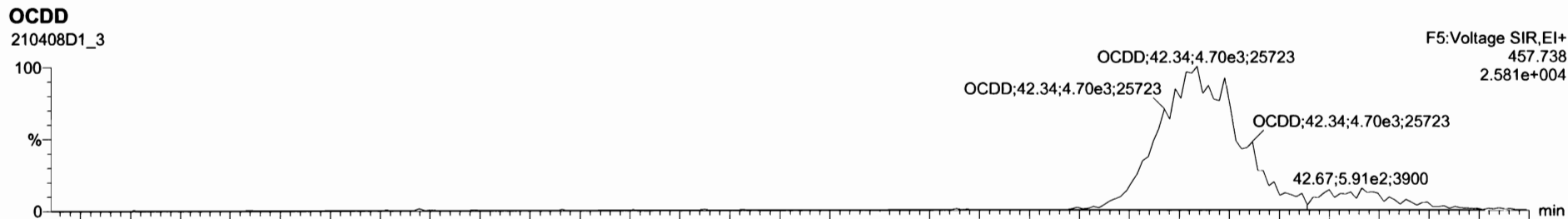
Name	RT	wf Resp	w2 Resp	RA	rvy	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDD	38.59	3.371e3	3.364e3	1.00	NO	8.7090	8.7094



Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
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Name: 210408D1_3, Date: 08-Apr-2021, Time: 10:06:35, ID: ST210408D1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104



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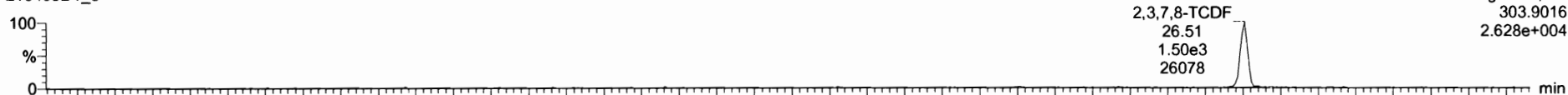
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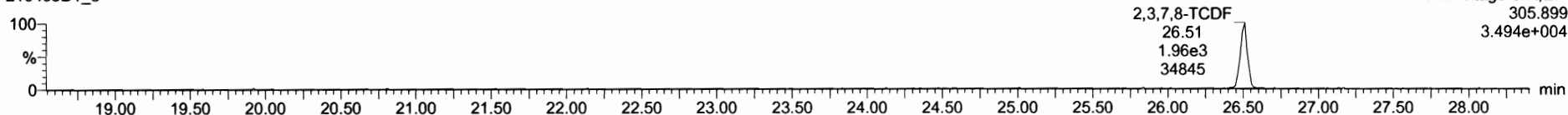
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2,3,7,8-TCDF

210408D1_3



210408D1_3

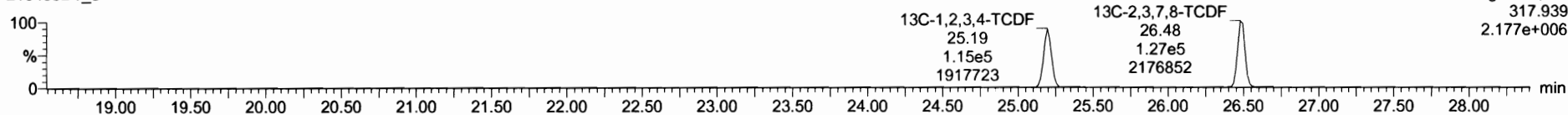


13C-2,3,7,8-TCDF

210408D1_3

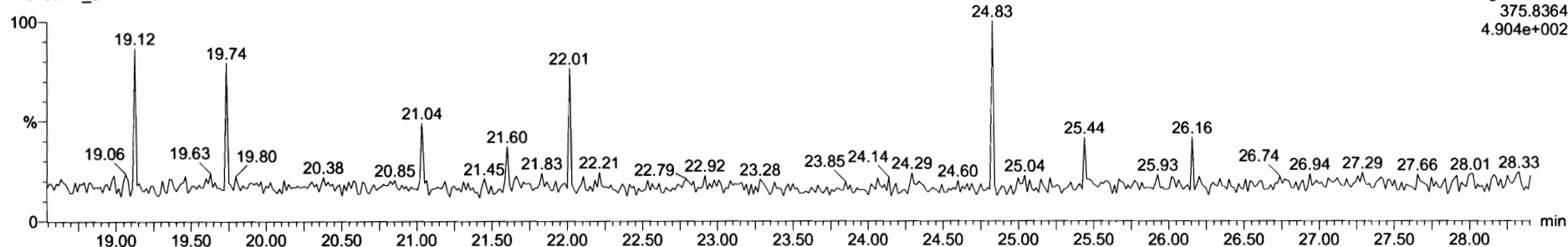


210408D1_3



DPE1

210408D1_3



Dataset: Untitled

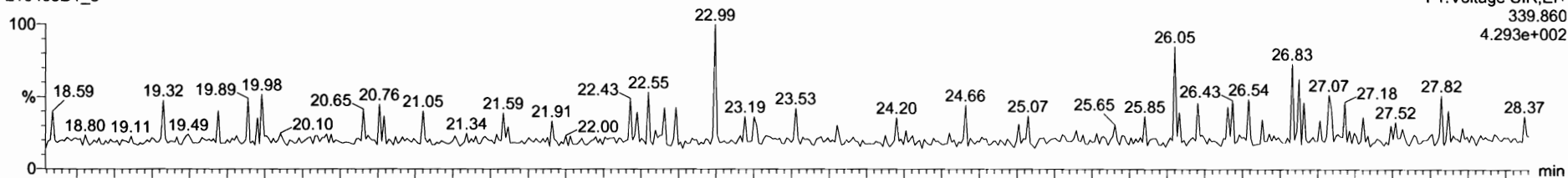
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

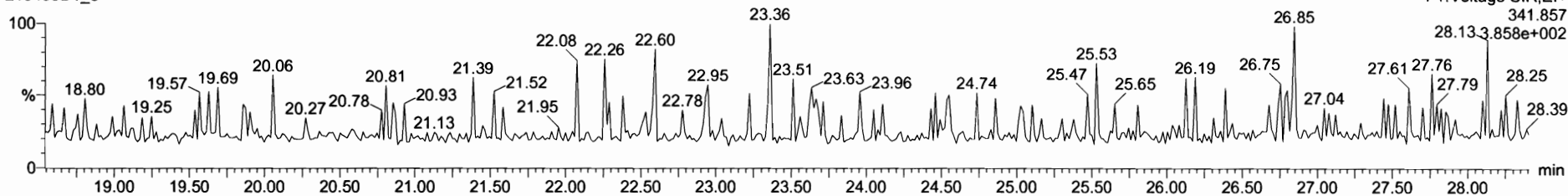
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1st Func. Penta-Furans

210408D1_3

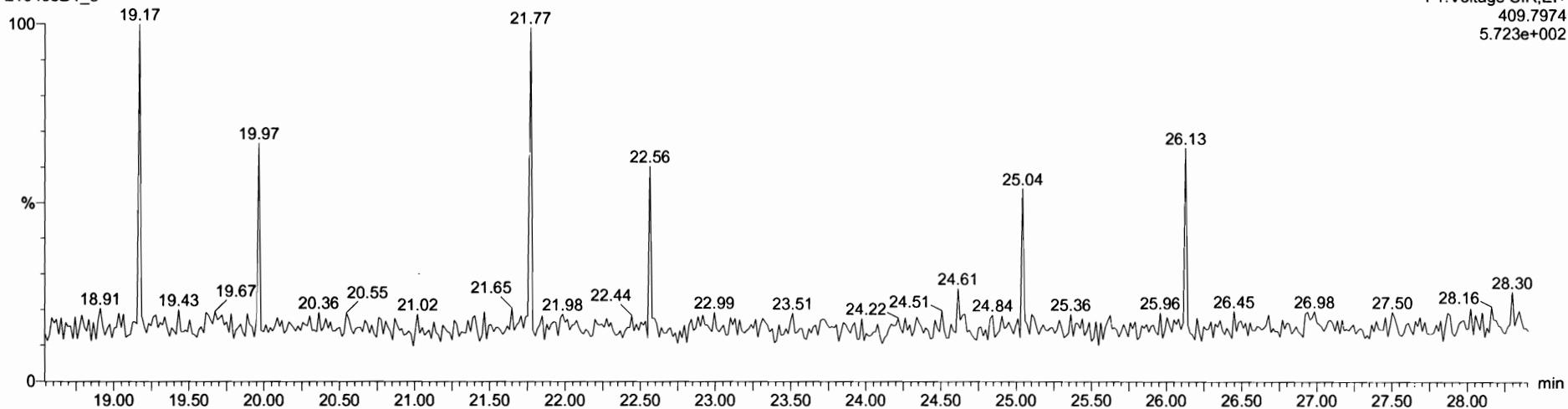


210408D1_3



DPE6

210408D1_3



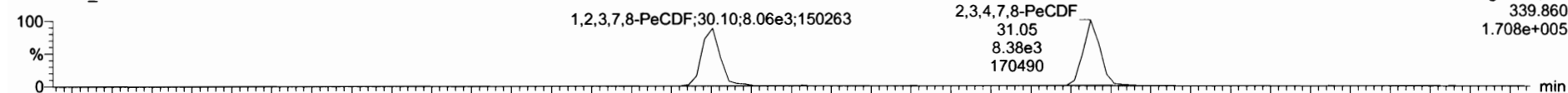
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_3, Date: 08-Apr-2021, Time: 10:06:35, ID: ST210408D1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

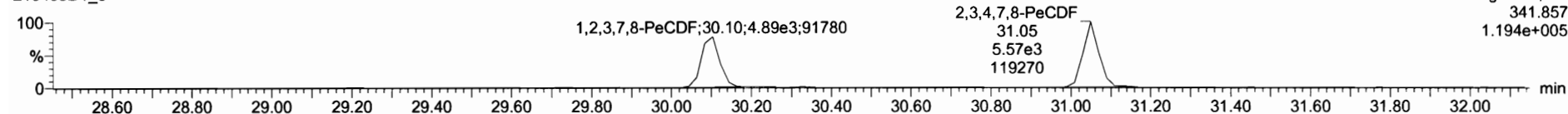
1,2,3,7,8-PeCDF

210408D1_3



F2:Voltage SIR,EI+
339.860
1.708e+005

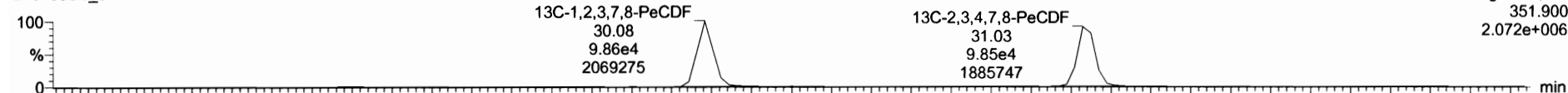
210408D1_3



F2:Voltage SIR,EI+
341.857
1.194e+005

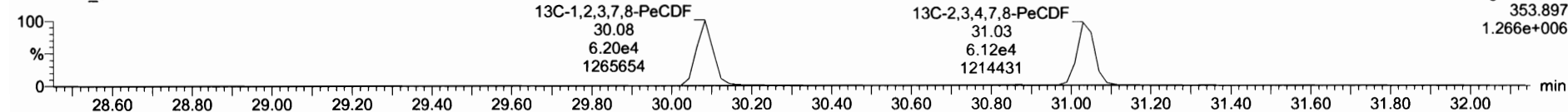
13C-1,2,3,7,8-PeCDF

210408D1_3



F2:Voltage SIR,EI+
351.900
2.072e+006

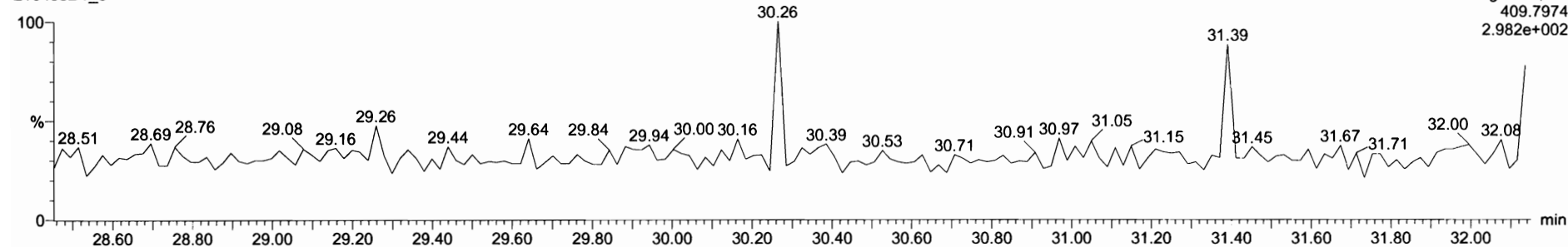
210408D1_3



F2:Voltage SIR,EI+
353.897
1.266e+006

DPE2

210408D1_3



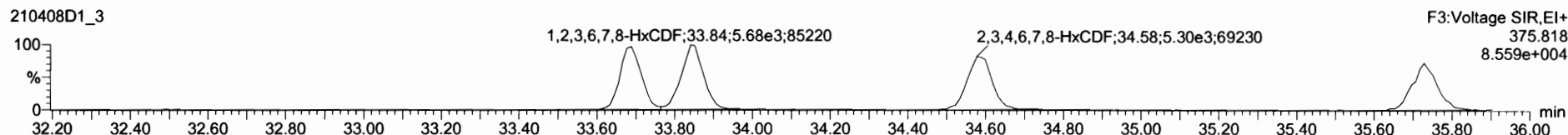
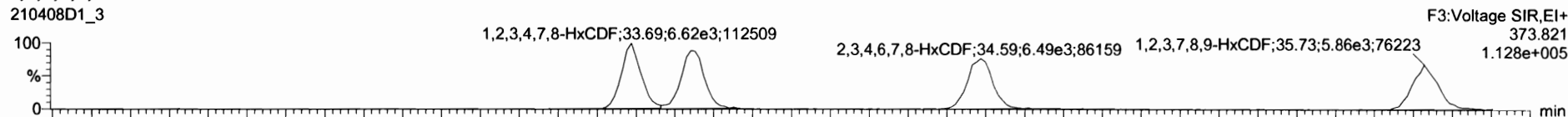
F2:Voltage SIR,EI+
409.7974
2.982e+002

Dataset: Untitled

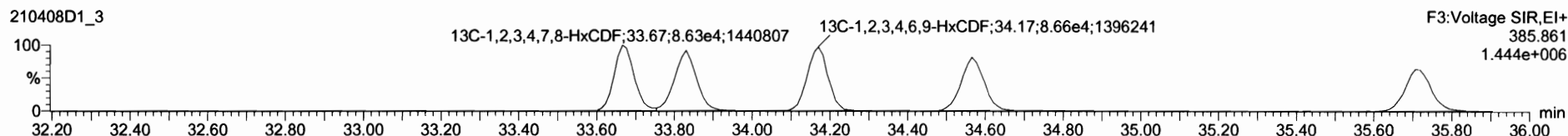
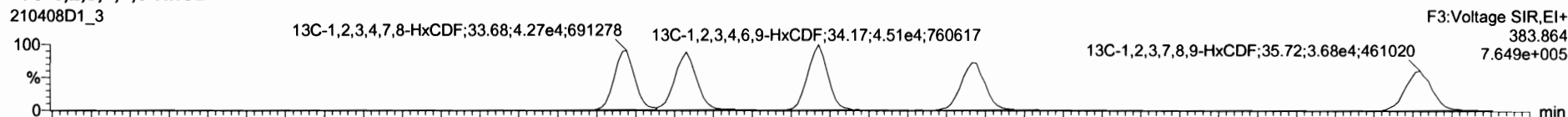
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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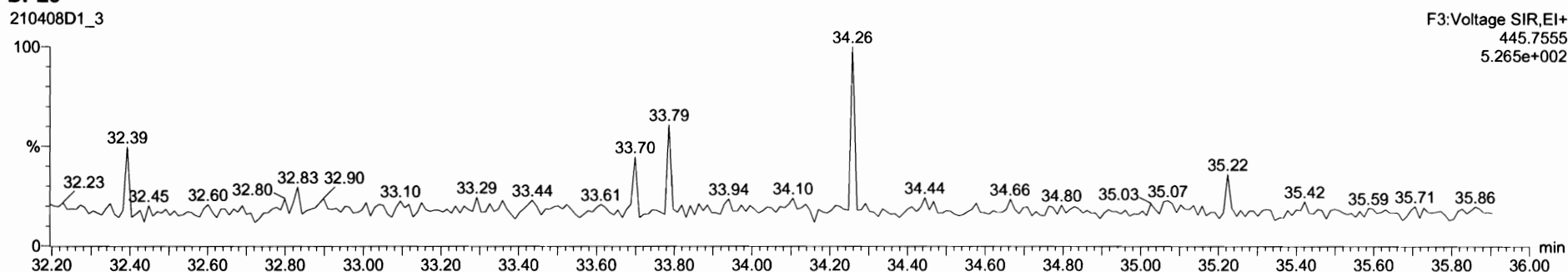
1,2,3,4,7,8-HxCDF



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



DPE3



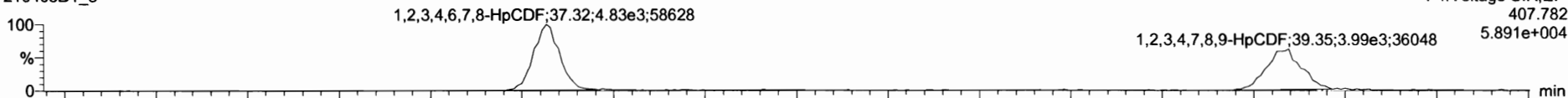
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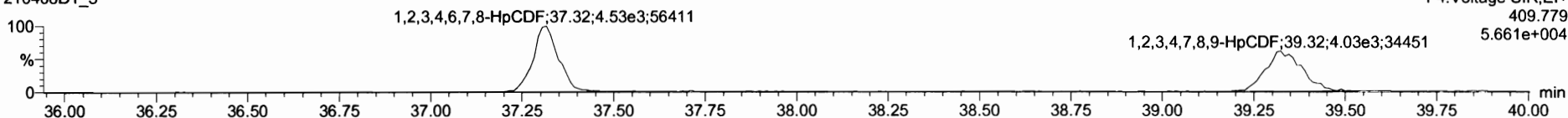
1,2,3,4,6,7,8-HpCDF

210408D1_3



F4:Voltage SIR,EI+
407.782
5.891e+004

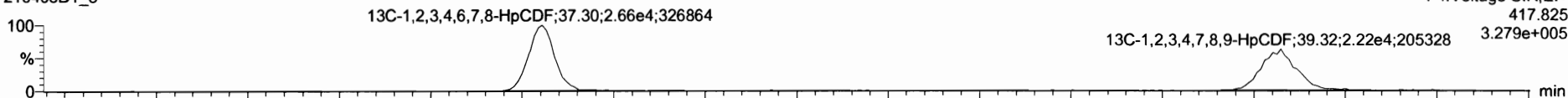
210408D1_3



F4:Voltage SIR,EI+
409.779
5.661e+004

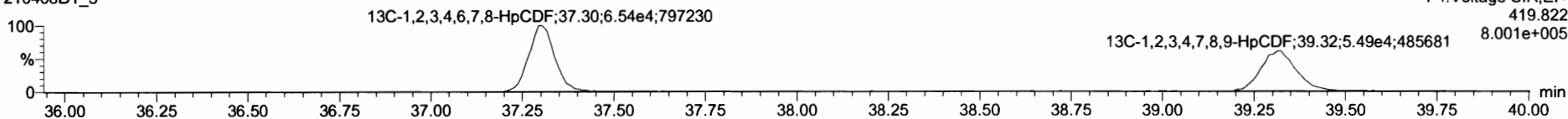
13C-1,2,3,4,6,7,8-HpCDF

210408D1_3



F4:Voltage SIR,EI+
417.825
3.279e+005

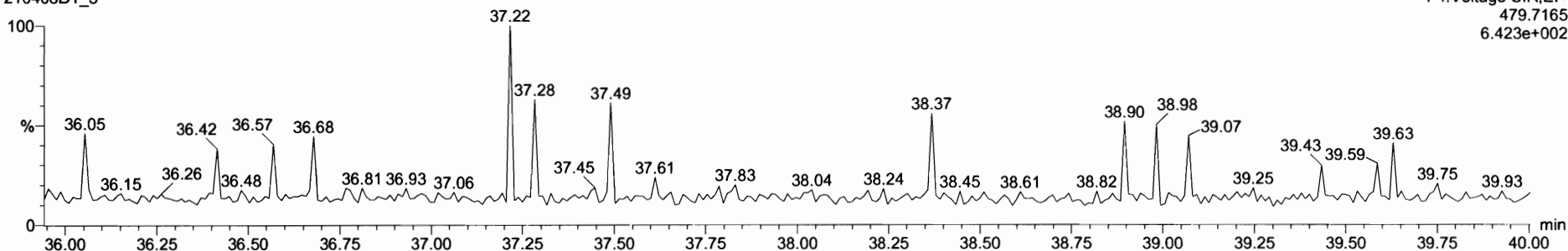
210408D1_3



F4:Voltage SIR,EI+
419.822
8.001e+005

DPE4

210408D1_3

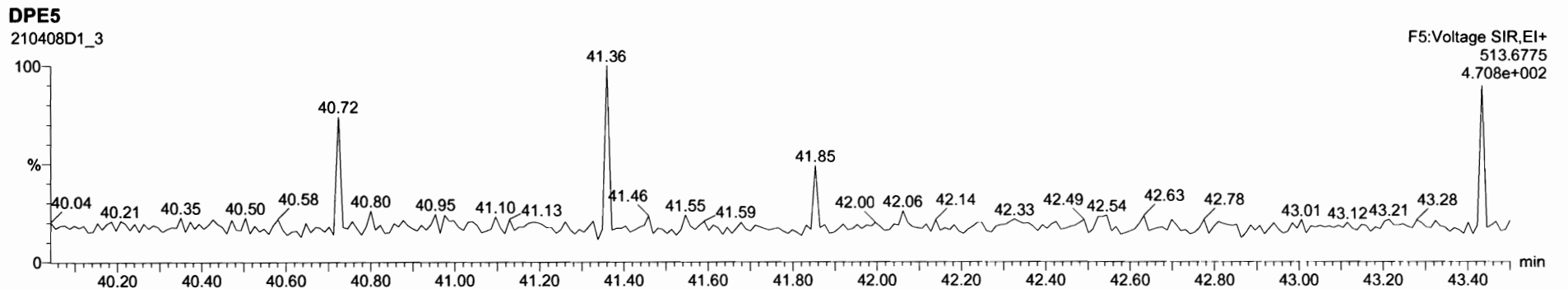
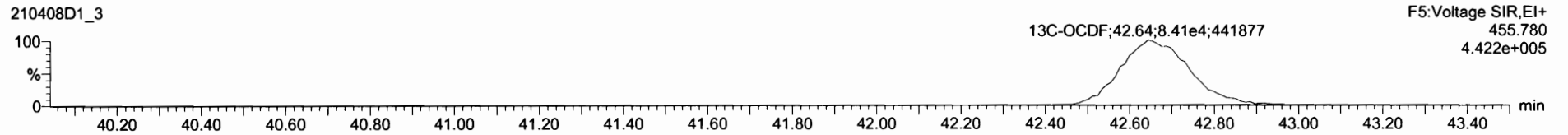
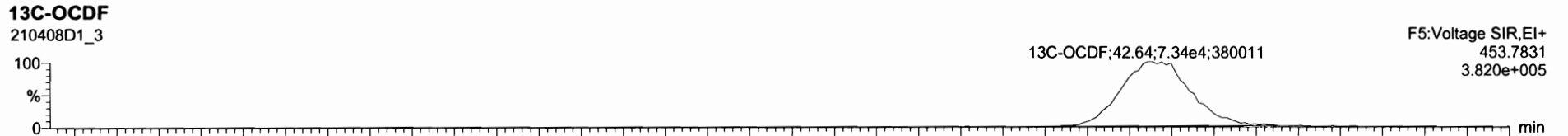
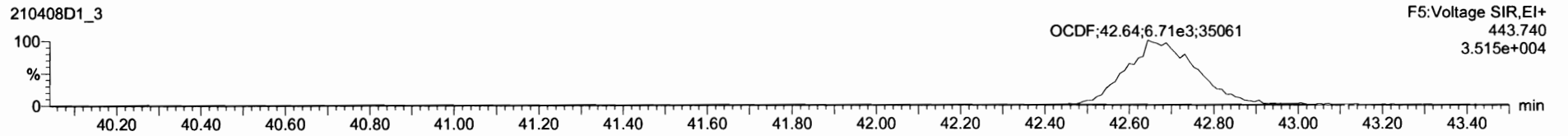
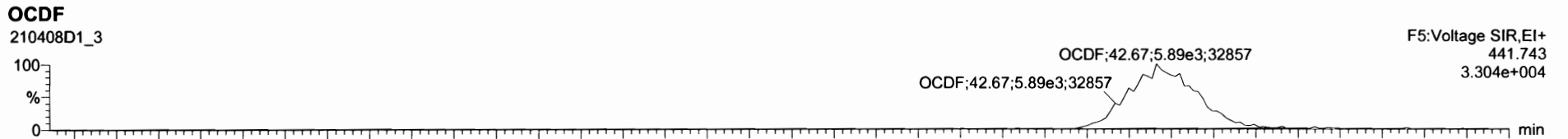


F4:Voltage SIR,EI+
479.7165
6.423e+002

Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

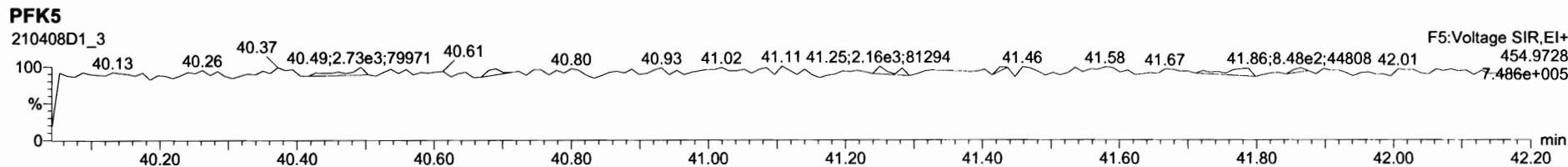
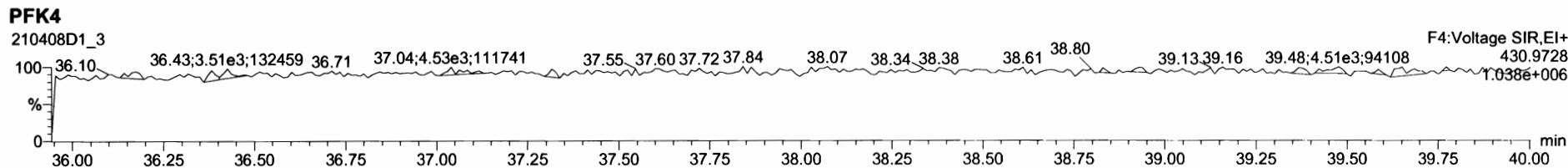
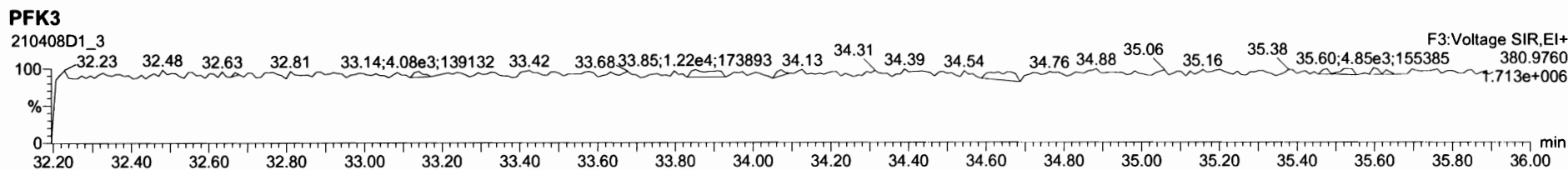
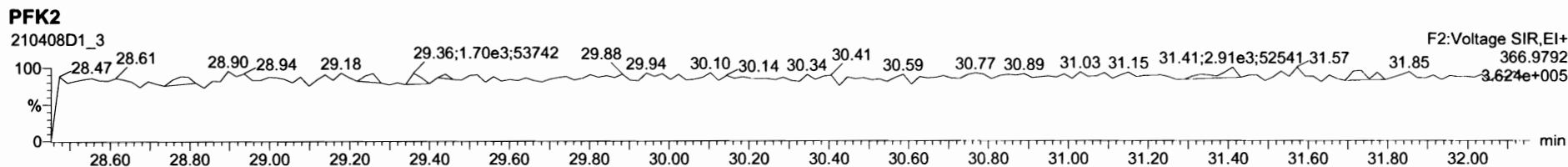
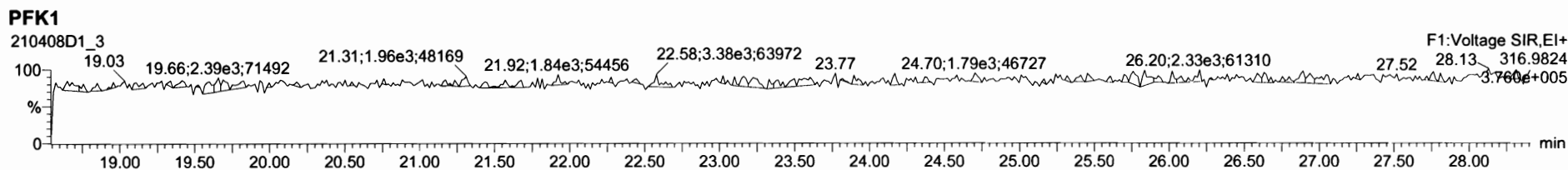
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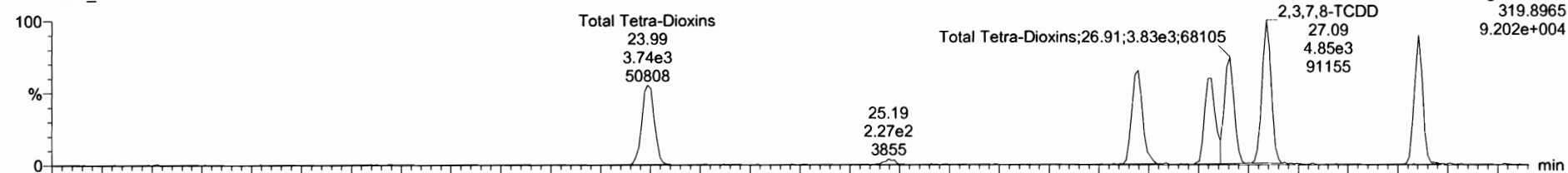
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

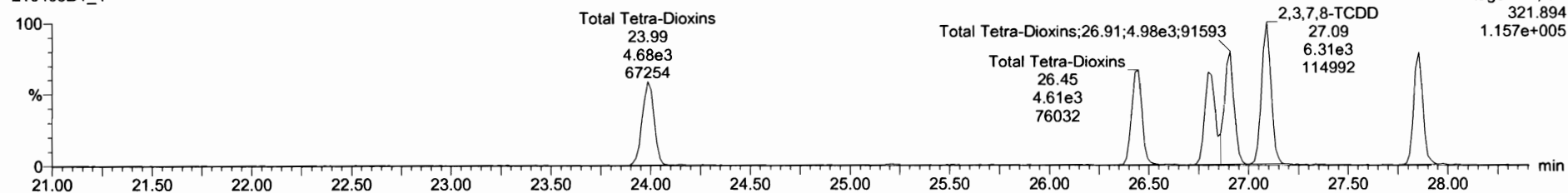
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2,3,7,8-TCDD

210408D1_4

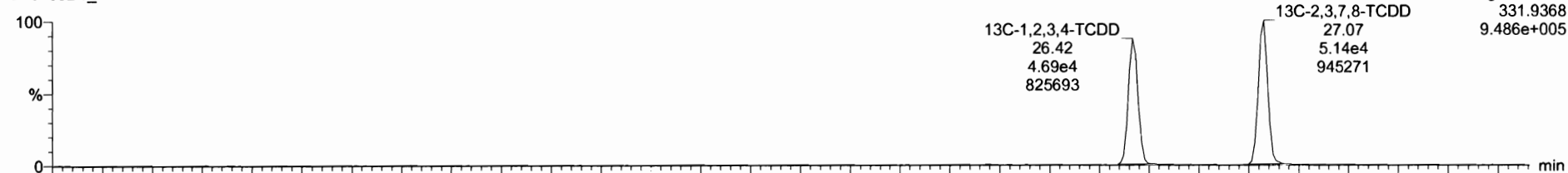


210408D1_4

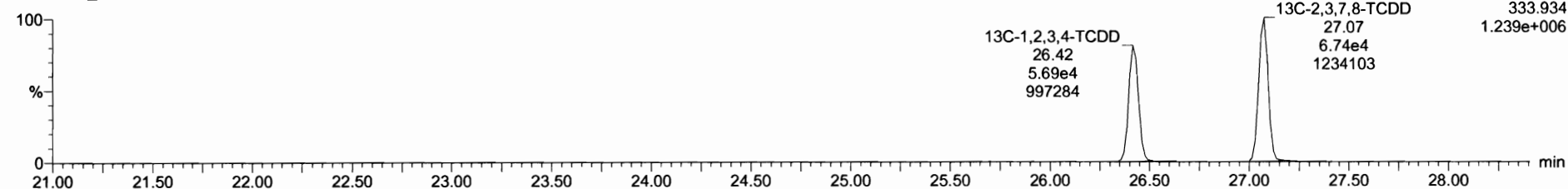


13C-2,3,7,8-TCDD

210408D1_4



210408D1_4



Dataset: Untitled

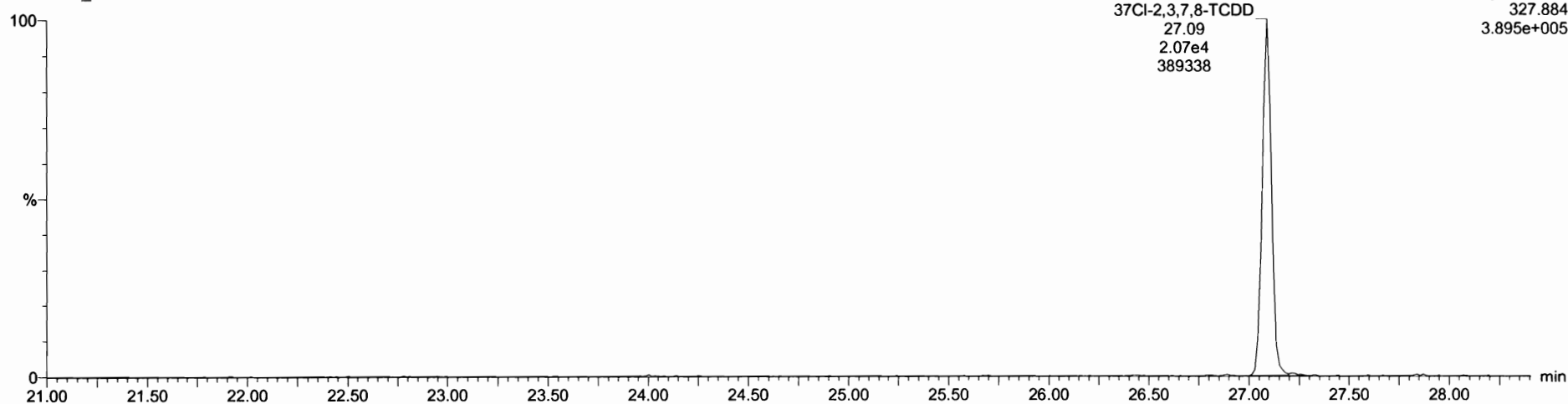
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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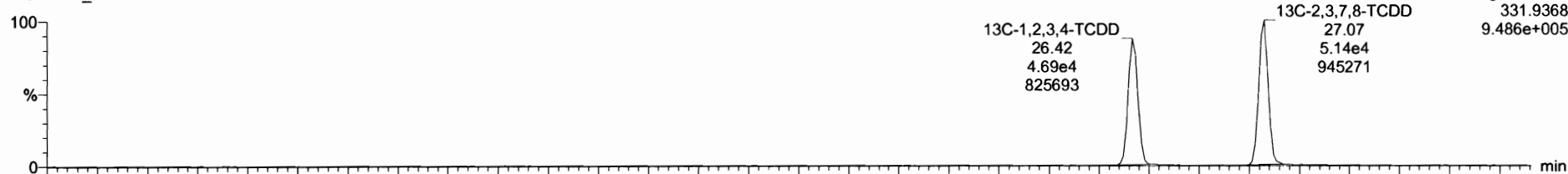
37Cl-2,3,7,8-TCDD

210408D1_4

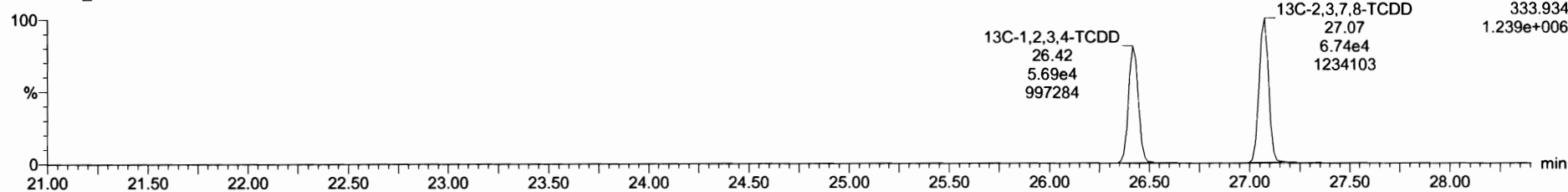


13C-1,2,3,4-TCDD

210408D1_4



210408D1_4



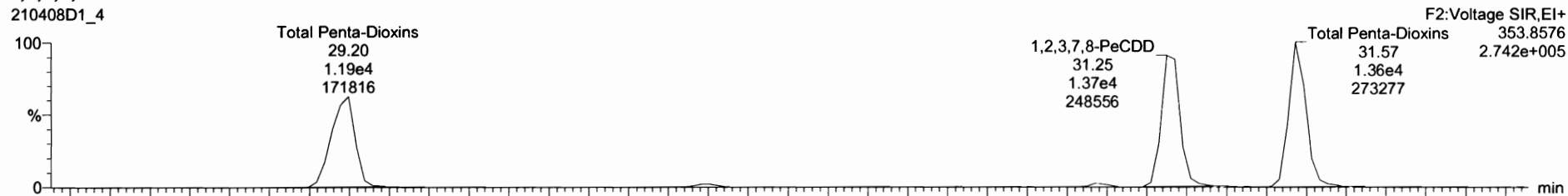
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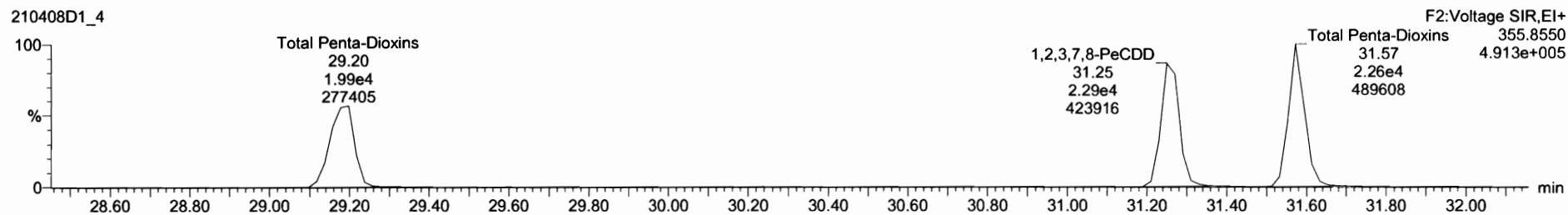
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1,2,3,7,8-PeCDD

210408D1_4

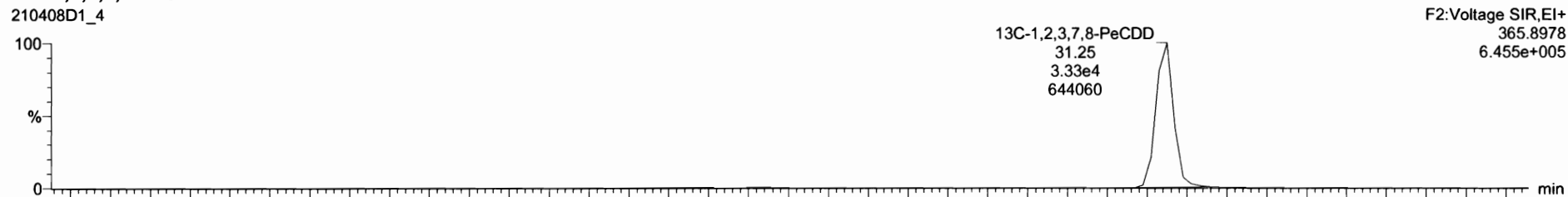


210408D1_4

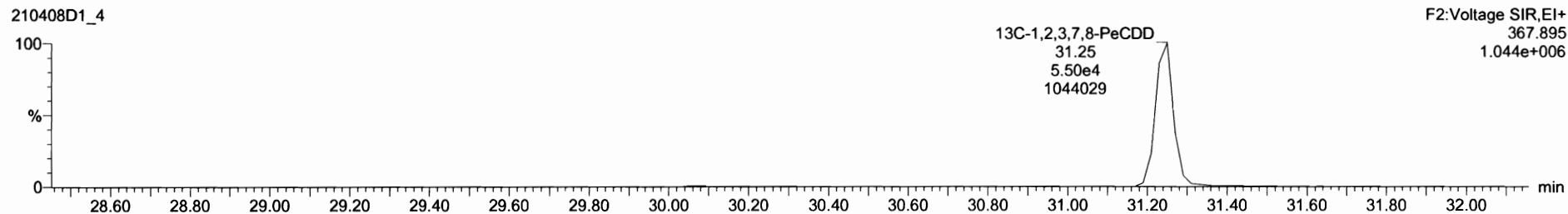


13C-1,2,3,7,8-PeCDD

210408D1_4



210408D1_4



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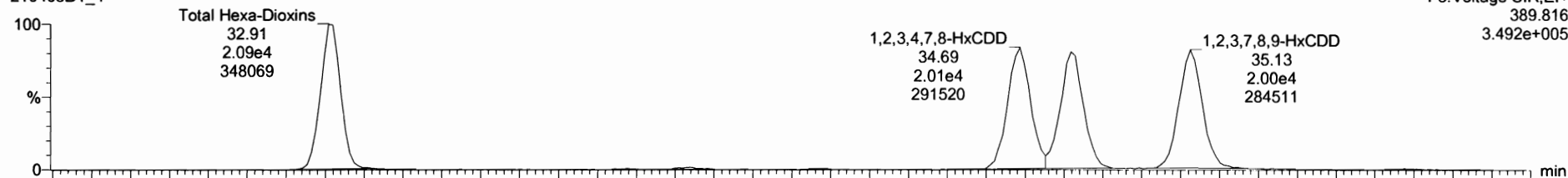
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

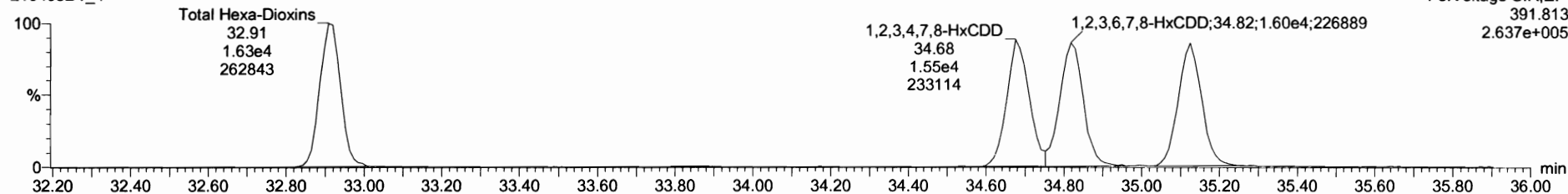
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1,2,3,4,7,8-HxCDD

210408D1_4

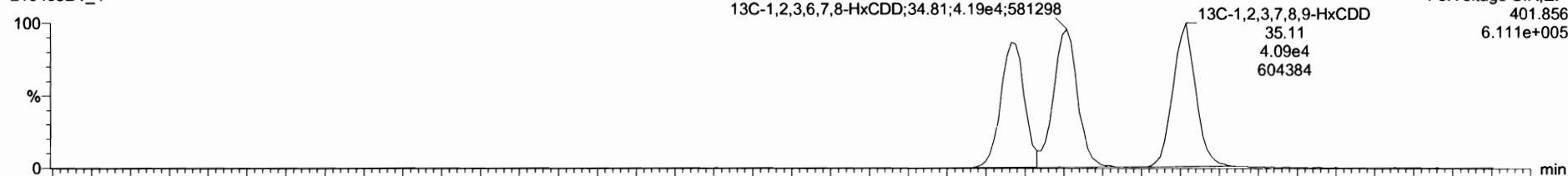


210408D1_4

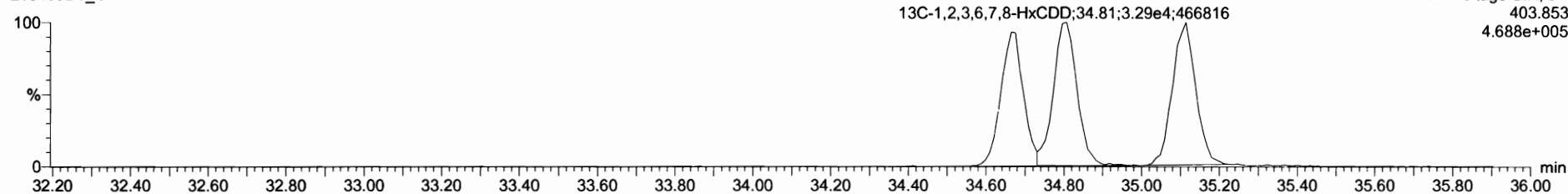


13C-1,2,3,4,7,8-HxCDD

210408D1_4



210408D1_4



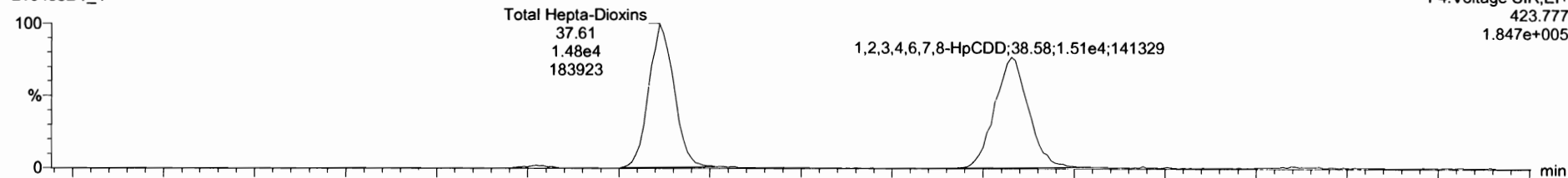
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

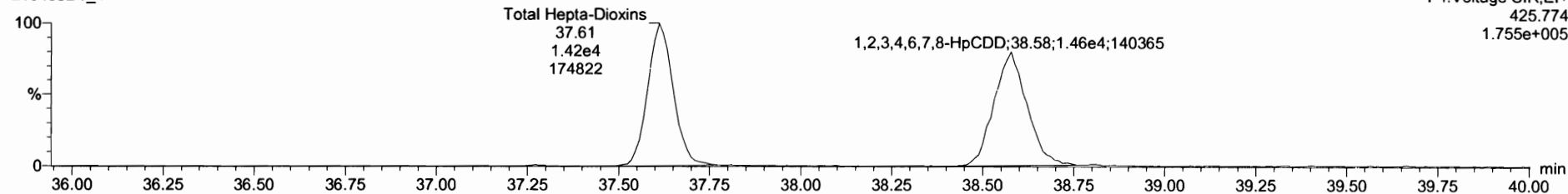
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1,2,3,4,6,7,8-HpCDD

210408D1_4

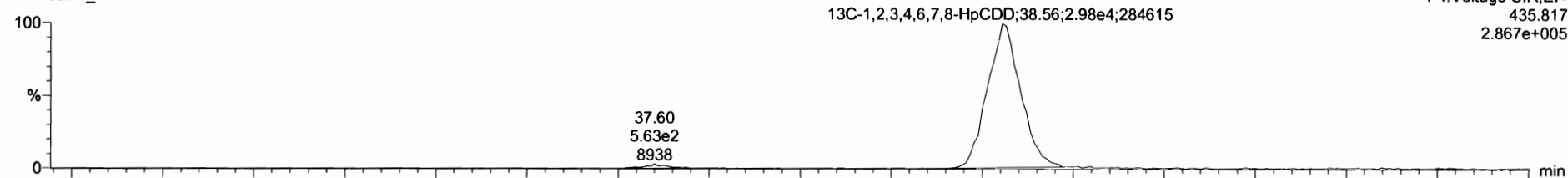


210408D1_4

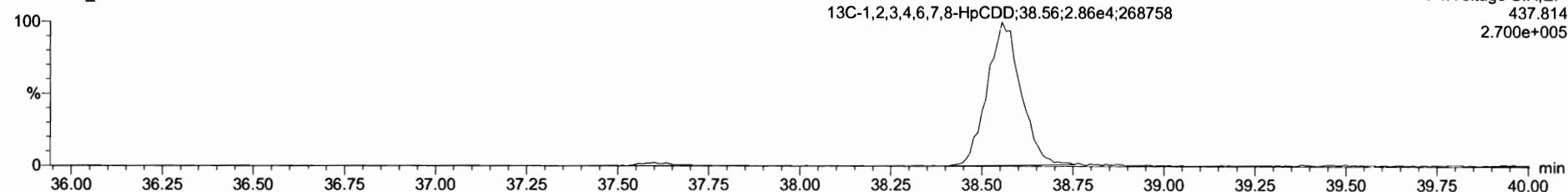


13C-1,2,3,4,6,7,8-HpCDD

210408D1_4



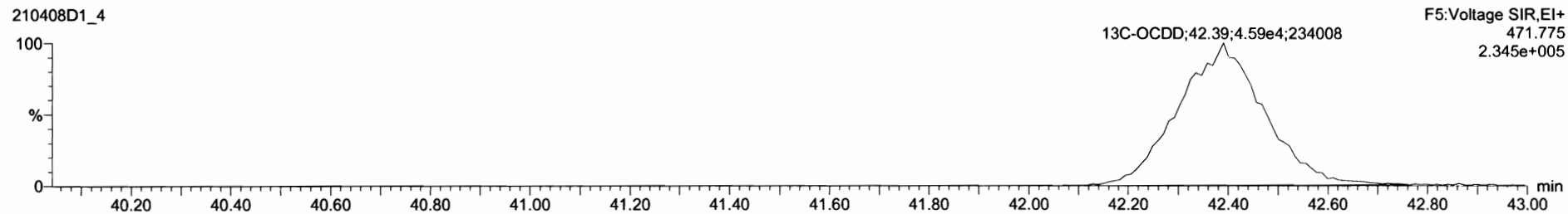
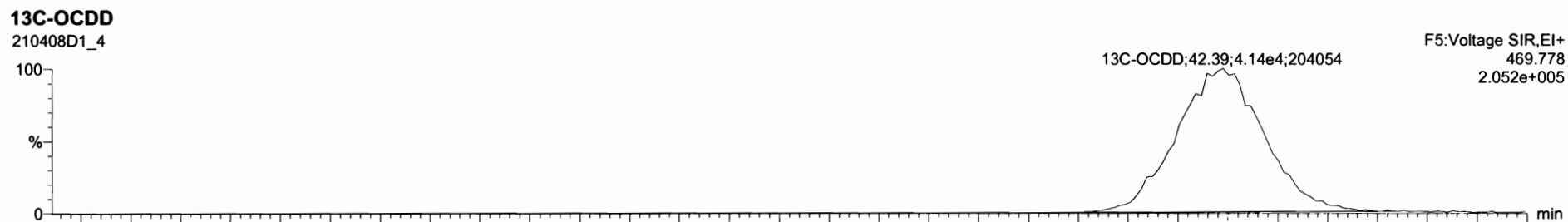
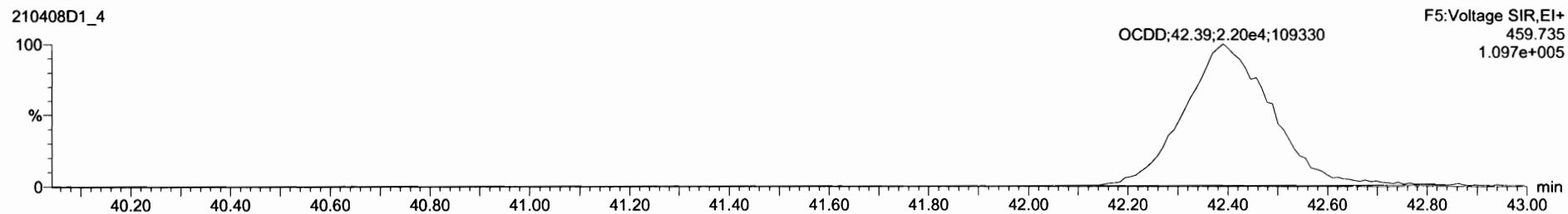
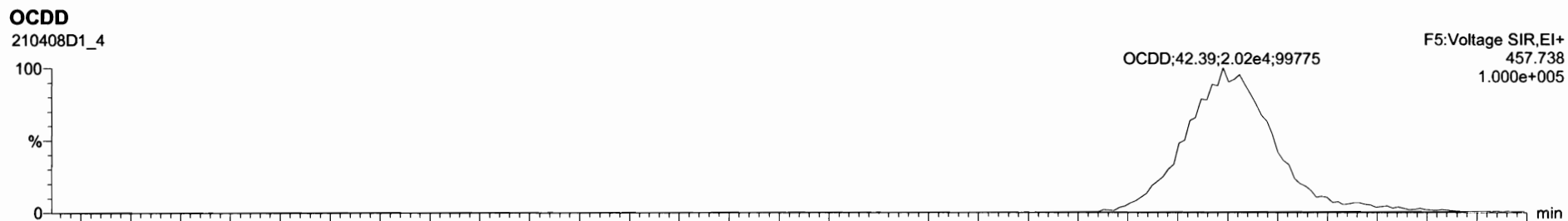
210408D1_4



Dataset: Untitled

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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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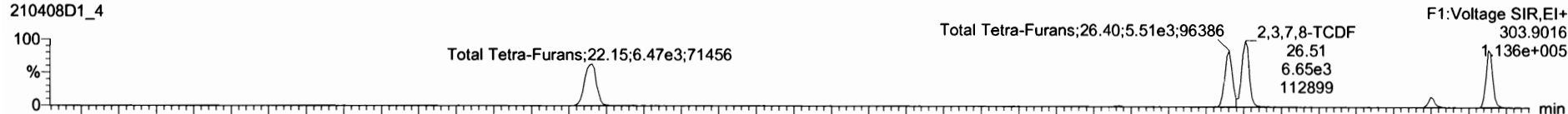
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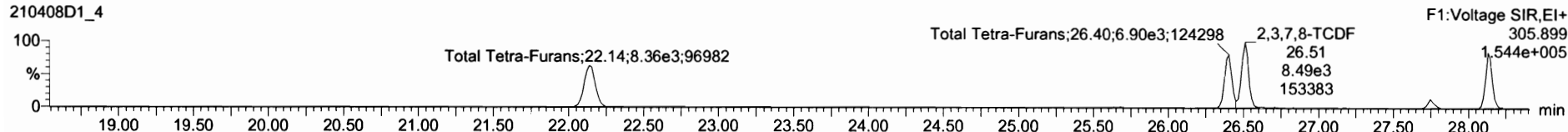
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2,3,7,8-TCDF

210408D1_4

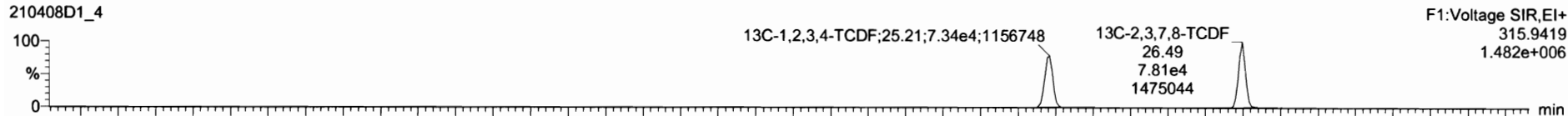


210408D1_4

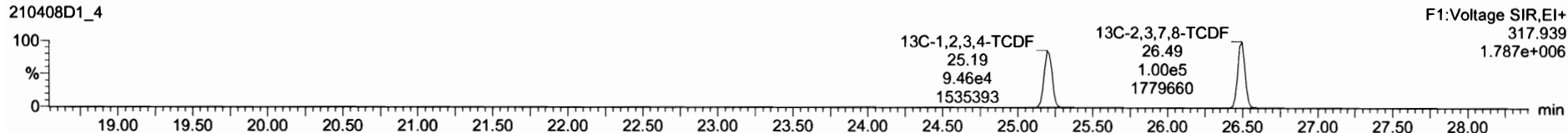


13C-2,3,7,8-TCDF

210408D1_4

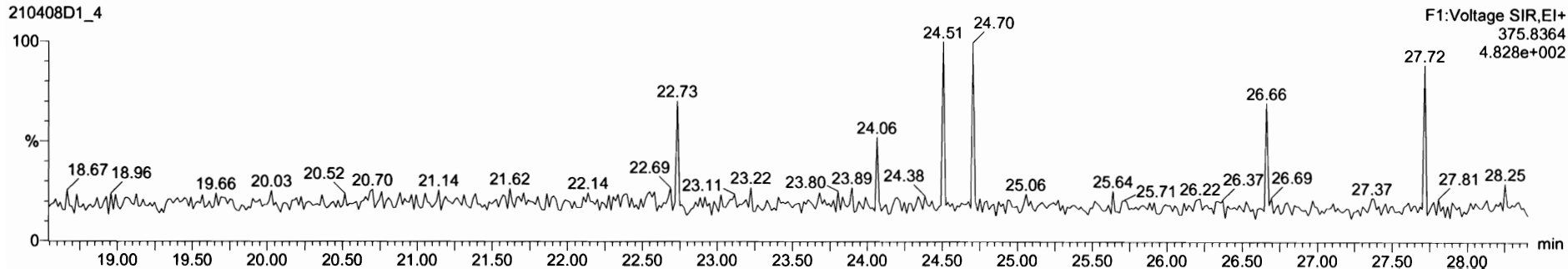


210408D1_4



DPE1

210408D1_4



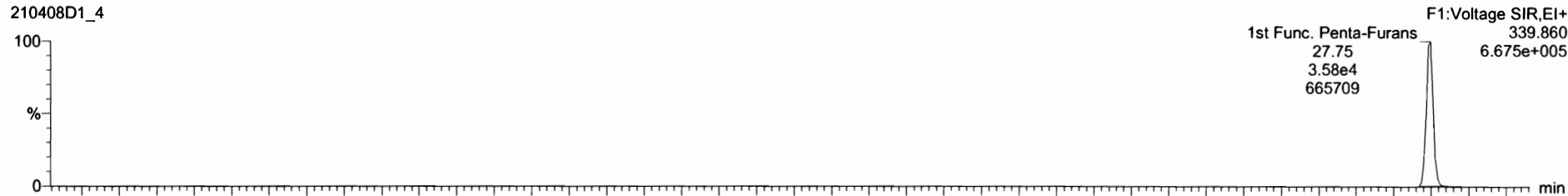
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

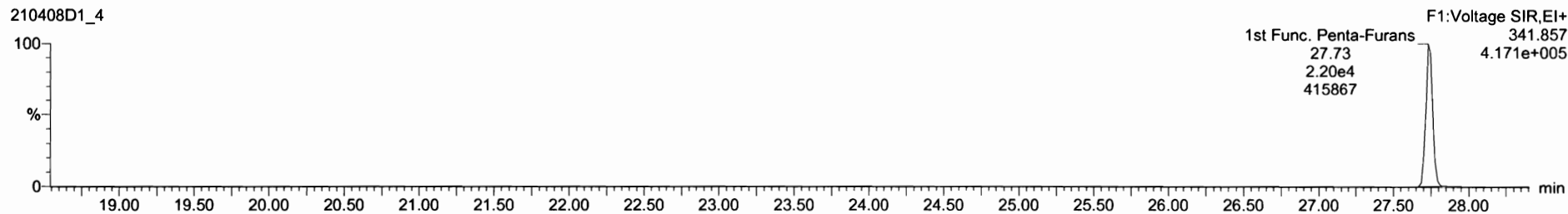
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1st Func. Penta-Furans

210408D1_4

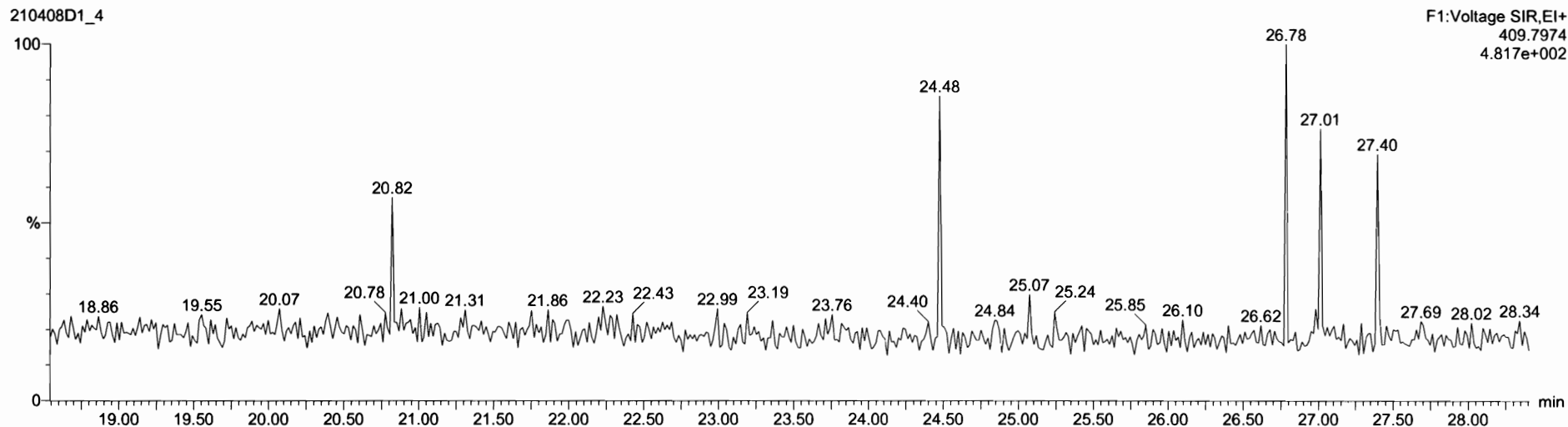


210408D1_4



DPE6

210408D1_4



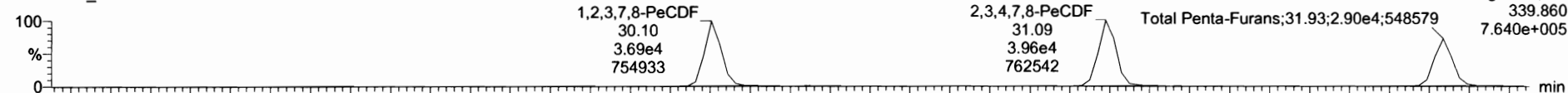
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

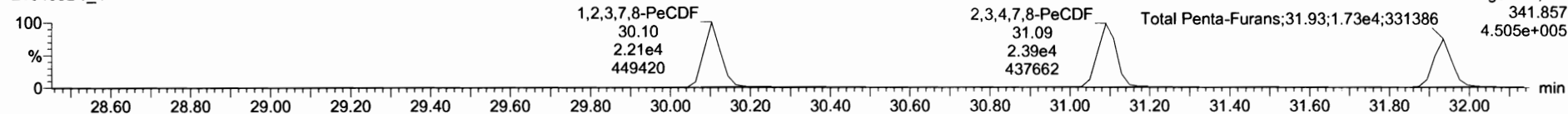
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1,2,3,7,8-PeCDF

210408D1_4

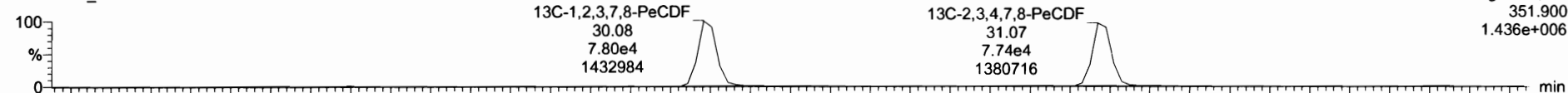


210408D1_4

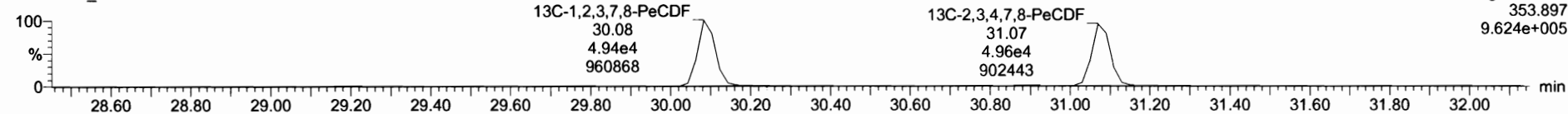


13C-1,2,3,7,8-PeCDF

210408D1_4

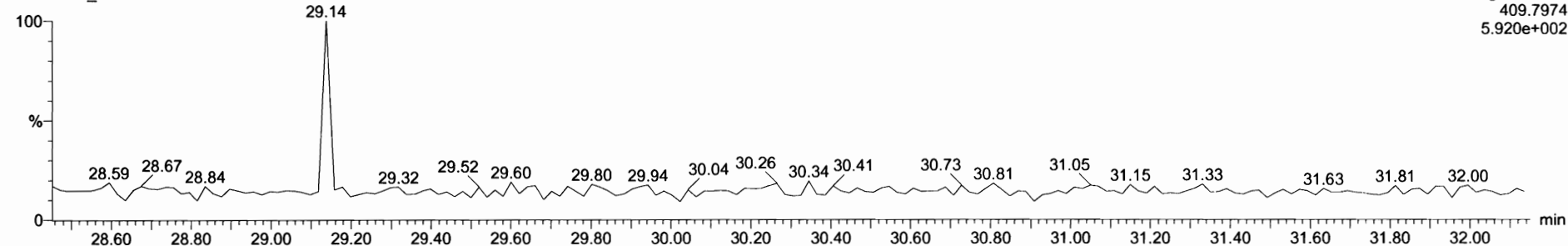


210408D1_4



DPE2

210408D1_4

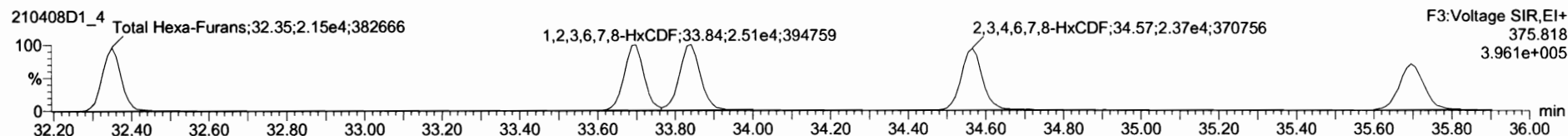
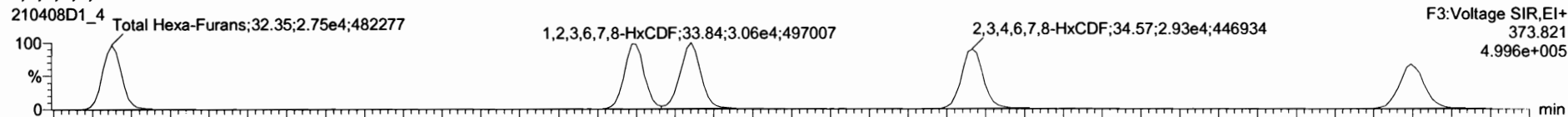


Dataset: Untitled

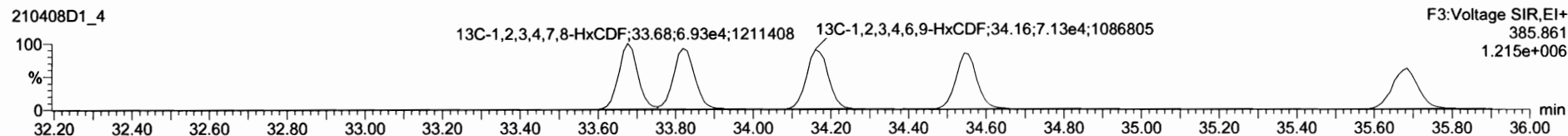
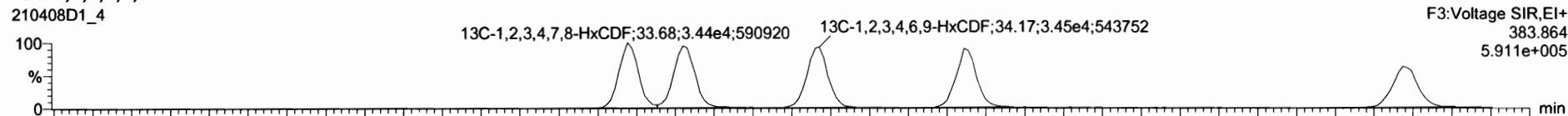
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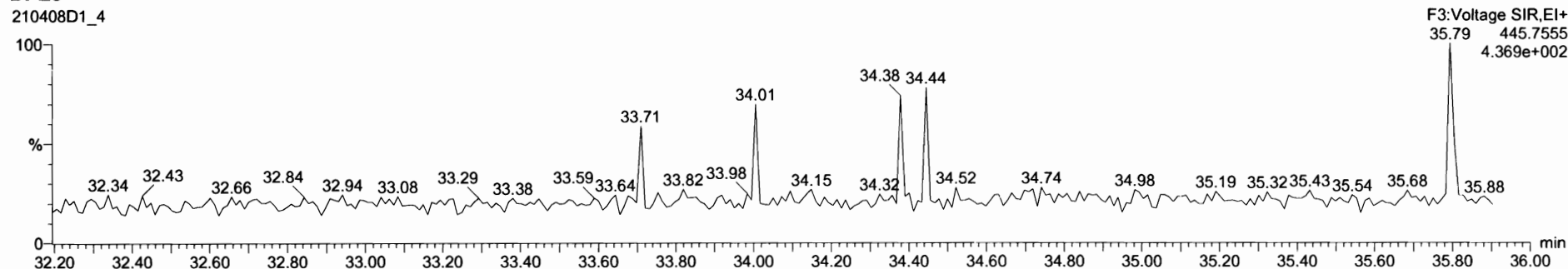
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: Untitled

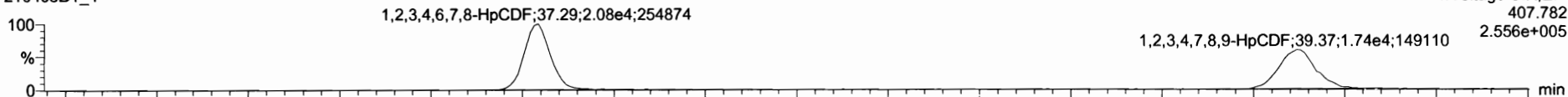
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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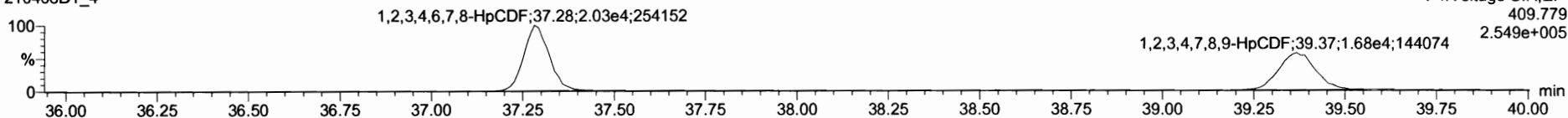
1,2,3,4,6,7,8-HpCDF

210408D1_4



F4:Voltage SIR,EI+
407.782
2.556e+005

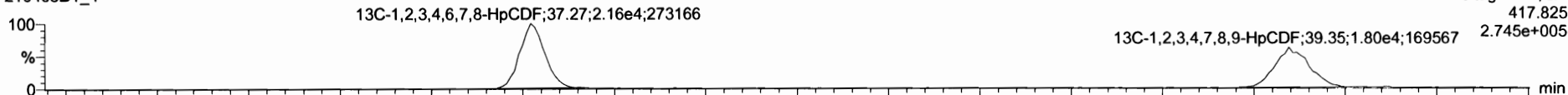
210408D1_4



F4:Voltage SIR,EI+
409.779
2.549e+005

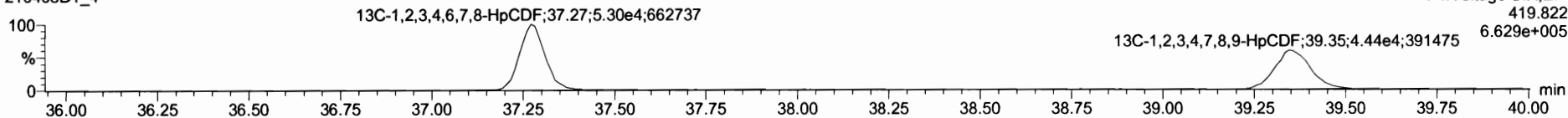
13C-1,2,3,4,6,7,8-HpCDF

210408D1_4



F4:Voltage SIR,EI+
417.825
2.745e+005

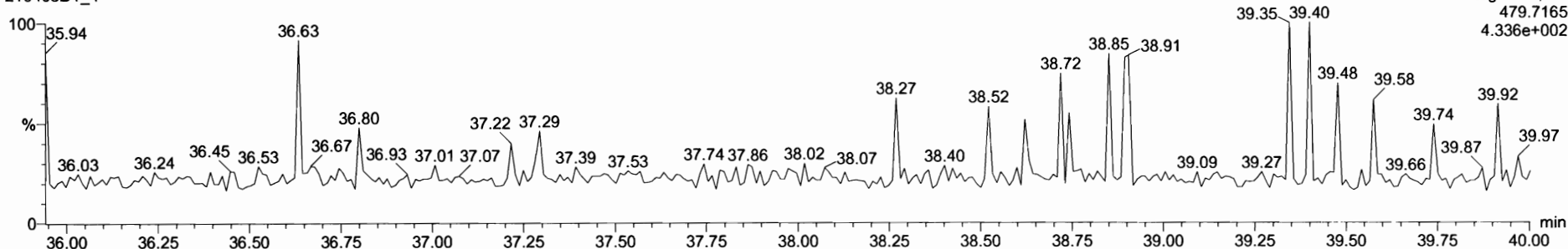
210408D1_4



F4:Voltage SIR,EI+
419.822
6.629e+005

DPE4

210408D1_4

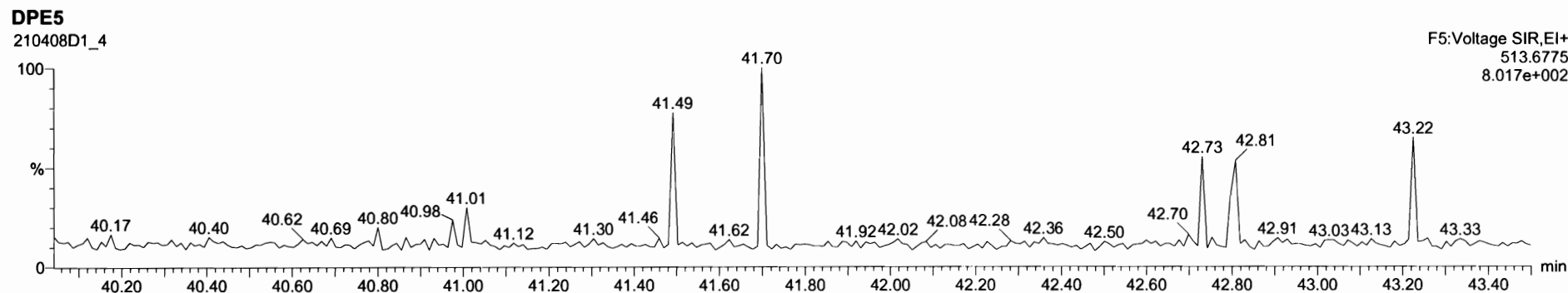
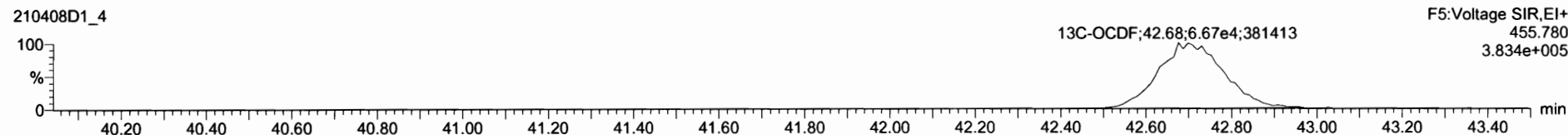
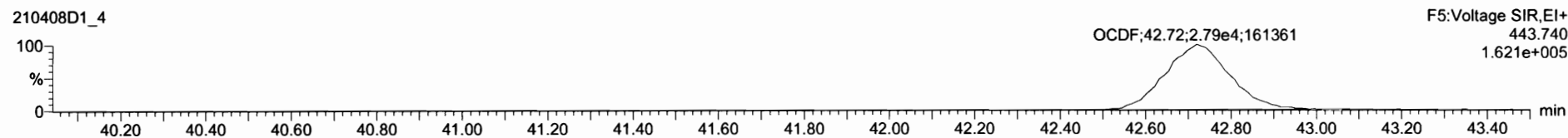
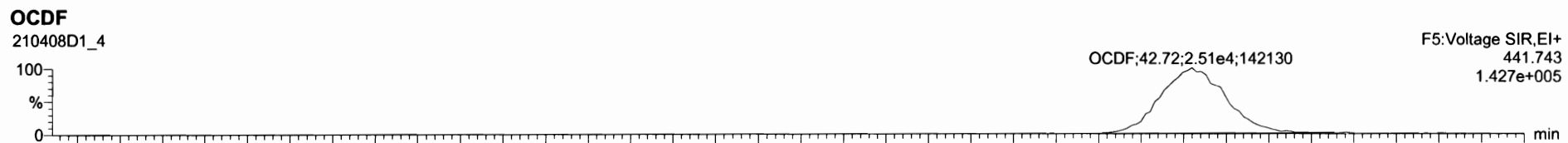


F4:Voltage SIR,EI+
479.7165
4.336e+002

Dataset: Untitled

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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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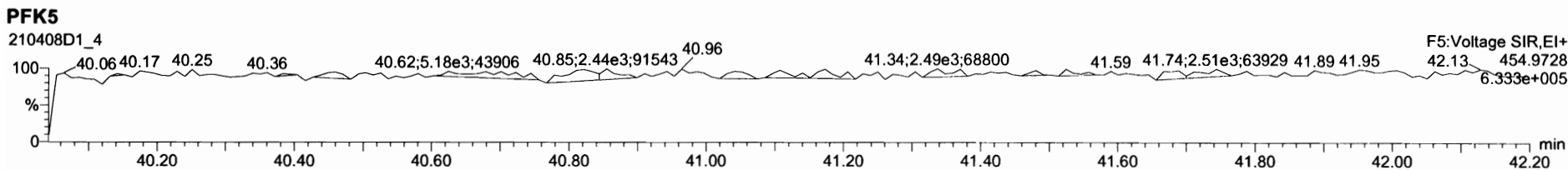
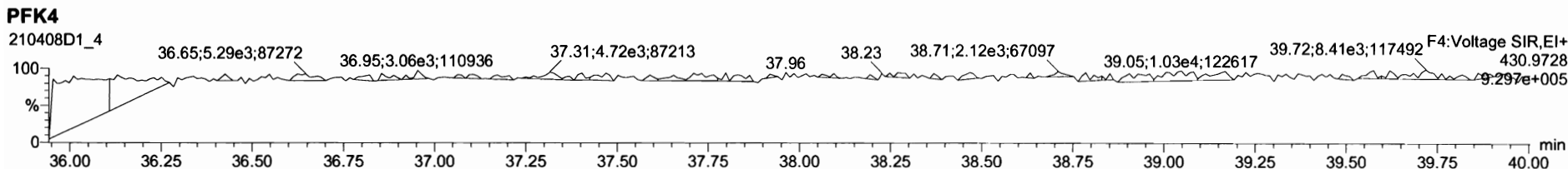
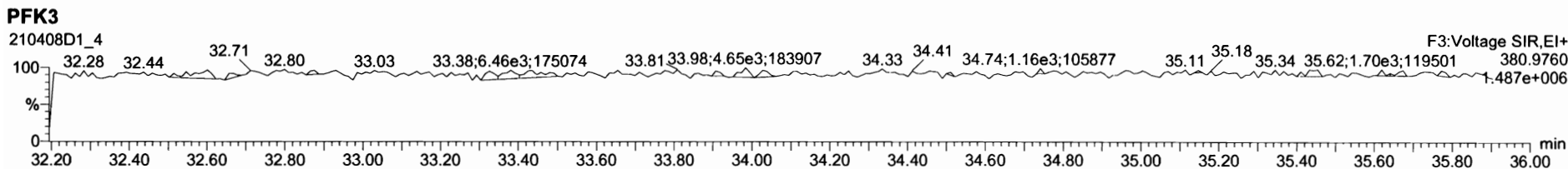
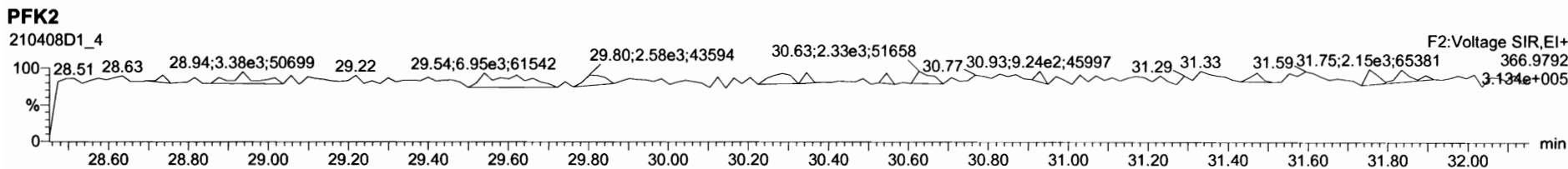
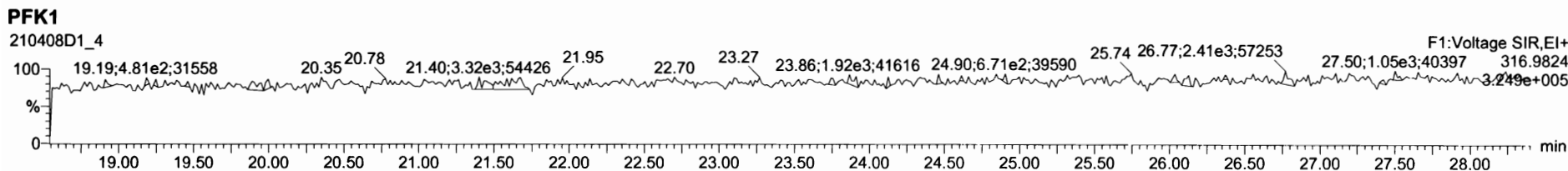


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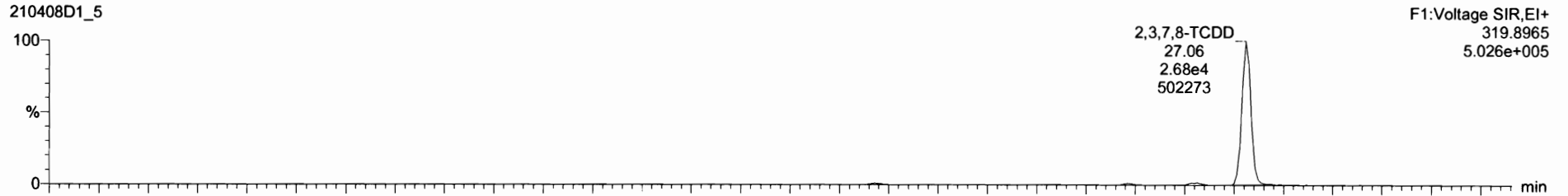
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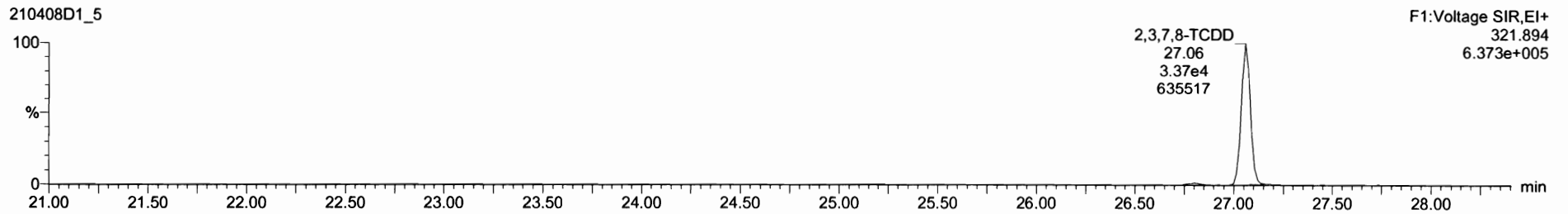
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2,3,7,8-TCDD

210408D1_5

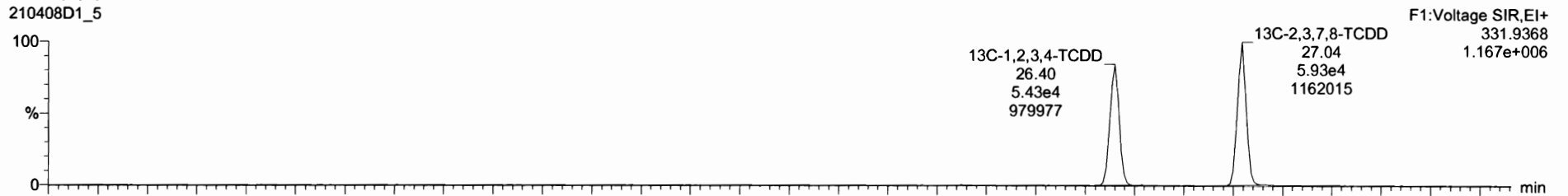


210408D1_5

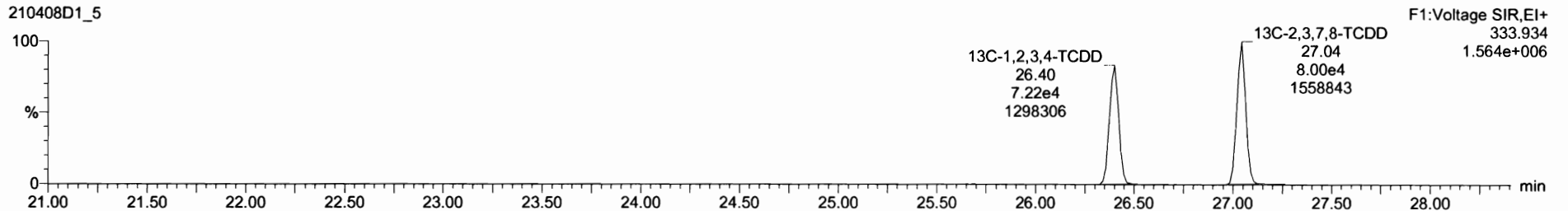


13C-2,3,7,8-TCDD

210408D1_5



210408D1_5



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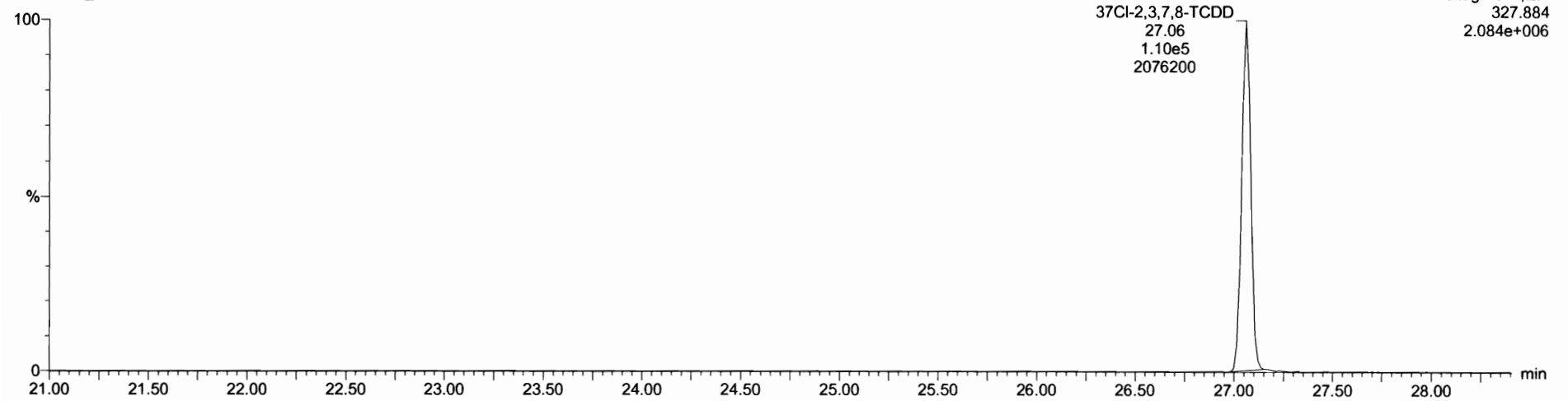
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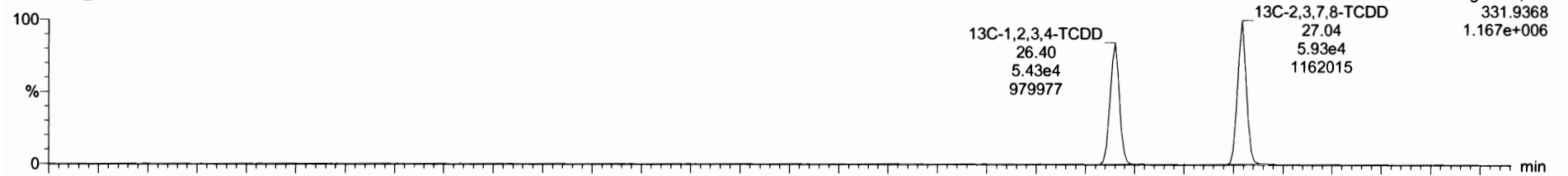
37Cl-2,3,7,8-TCDD

210408D1_5

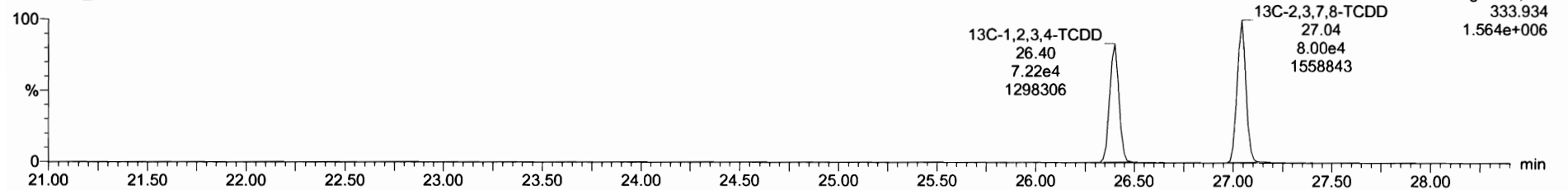


13C-1,2,3,4-TCDD

210408D1_5



210408D1_5



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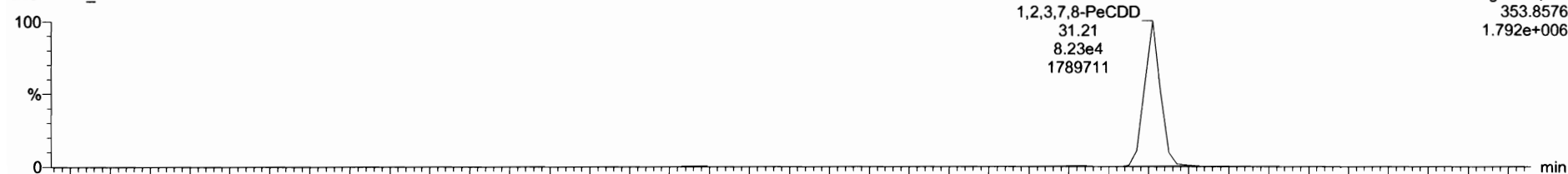
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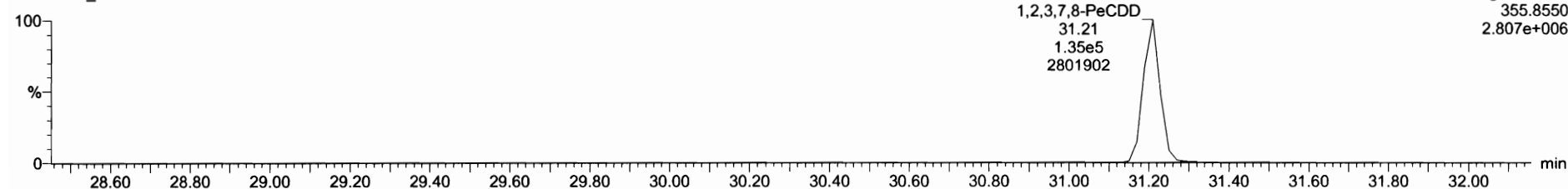
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1,2,3,7,8-PeCDD

210408D1_5

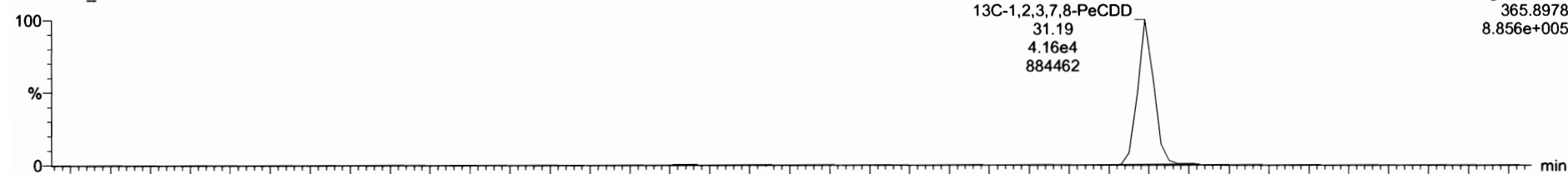


210408D1_5

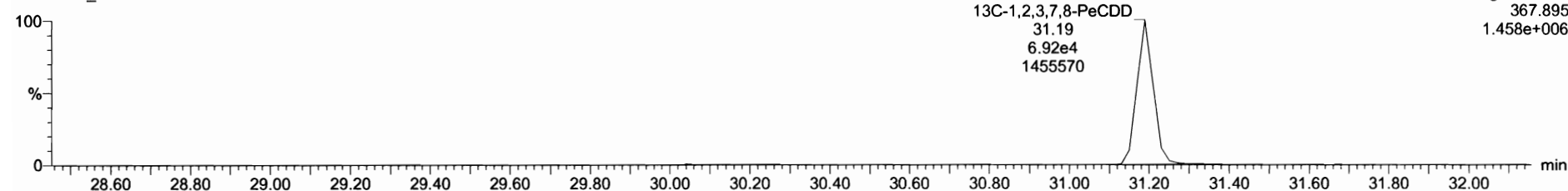


13C-1,2,3,7,8-PeCDD

210408D1_5



210408D1_5



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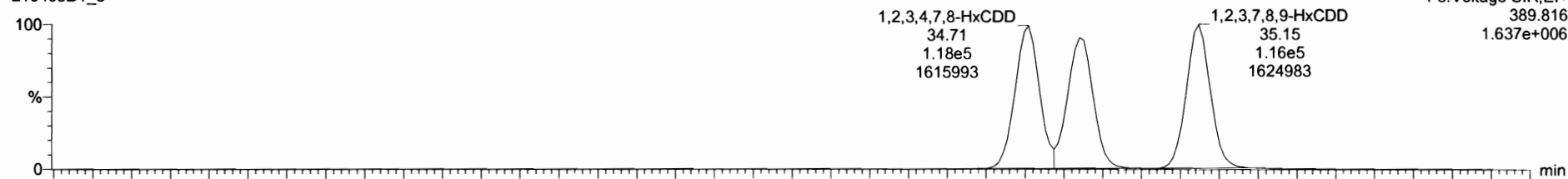
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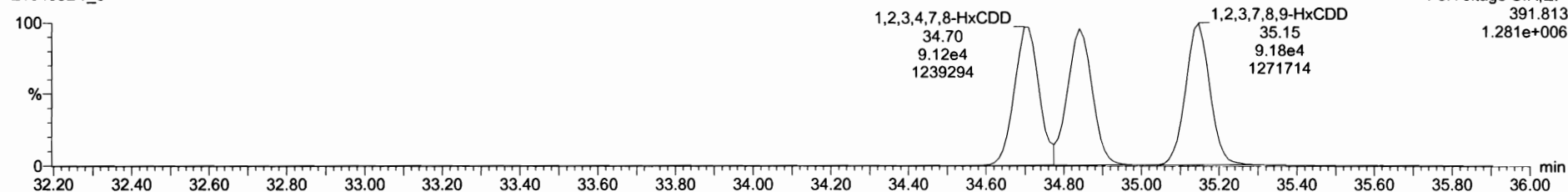
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1,2,3,4,7,8-HxCDD

210408D1_5

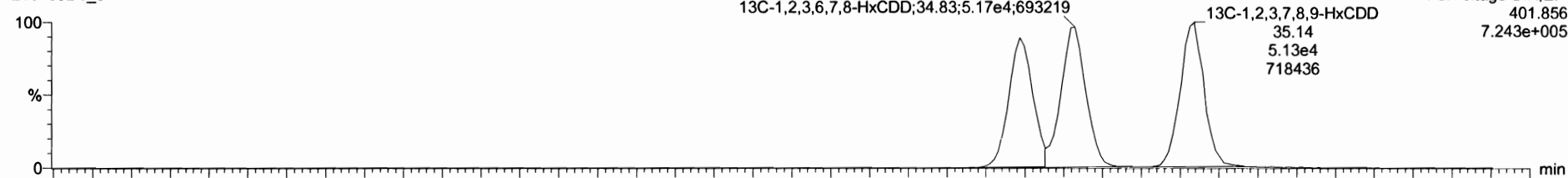


210408D1_5

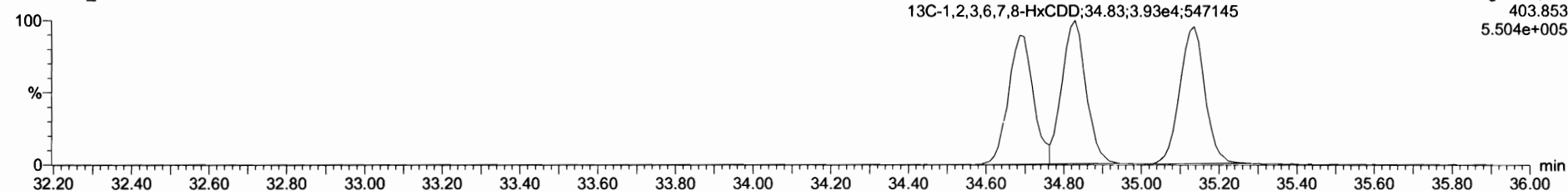


13C-1,2,3,4,7,8-HxCDD

210408D1_5



210408D1_5



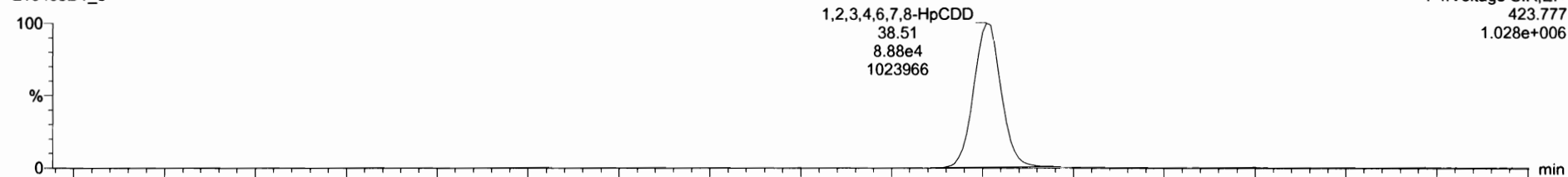
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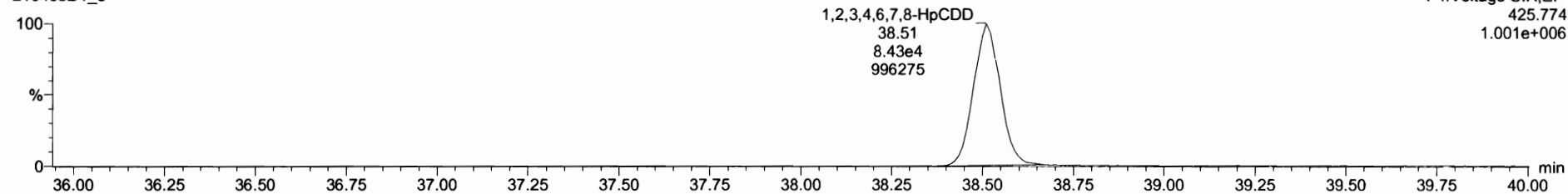
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1,2,3,4,6,7,8-HpCDD

210408D1_5

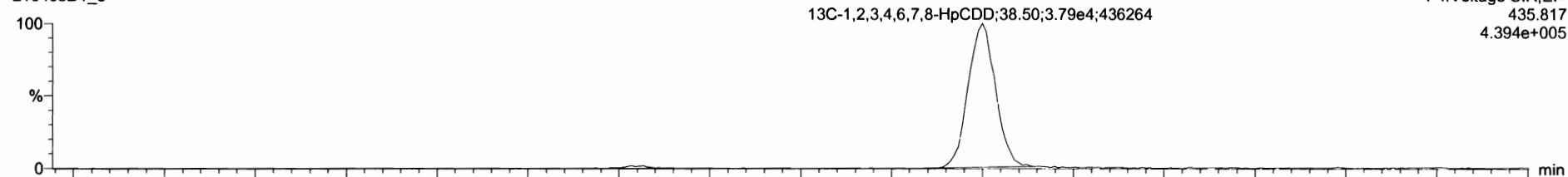


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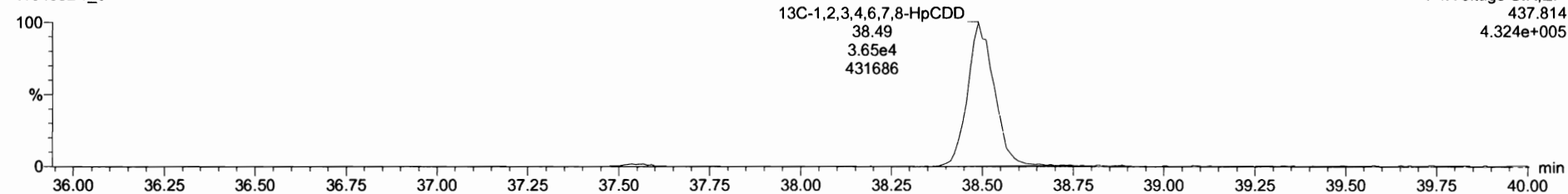


13C-1,2,3,4,6,7,8-HpCDD

210408D1_5



210408D1_5

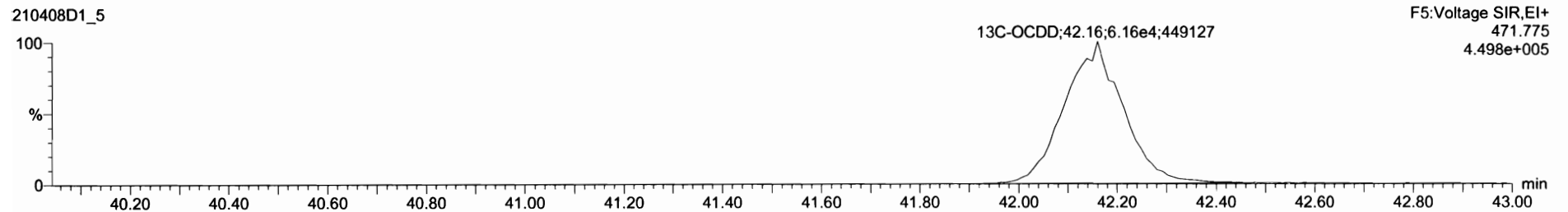
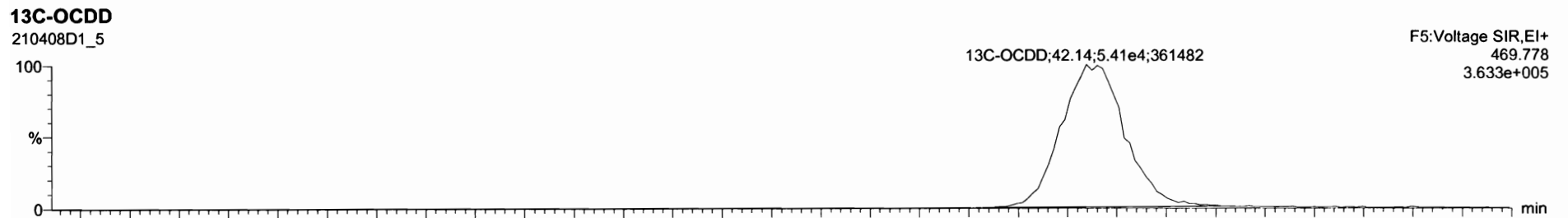
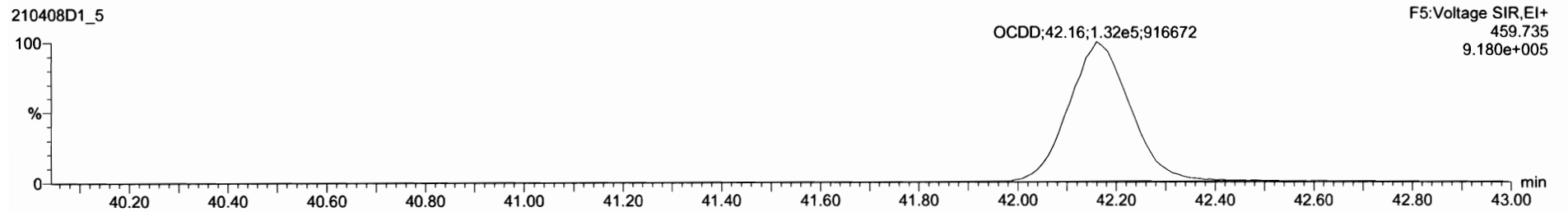
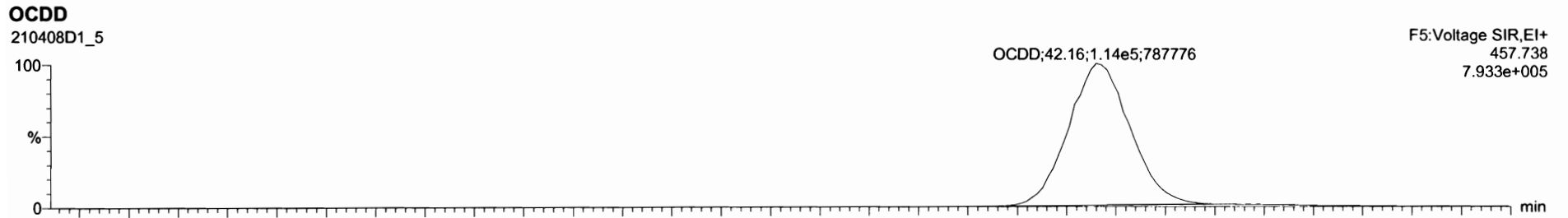


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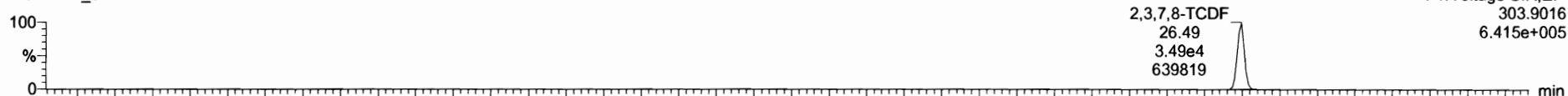
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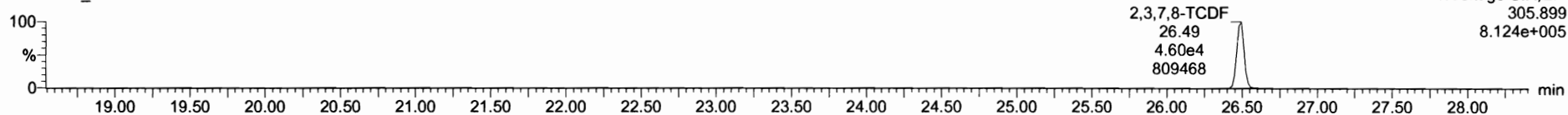
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2,3,7,8-TCDF

210408D1_5

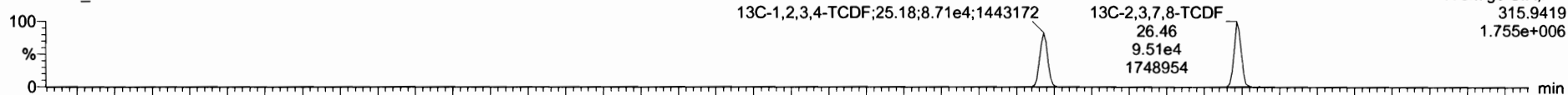


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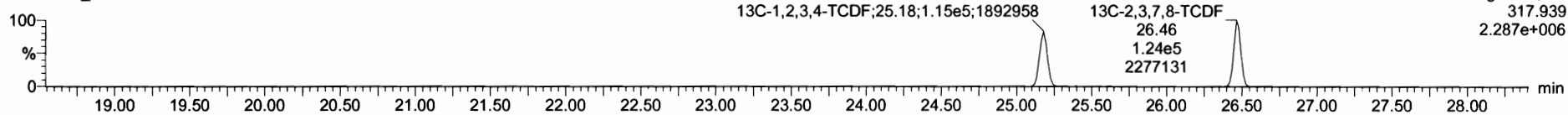


13C-2,3,7,8-TCDF

210408D1_5

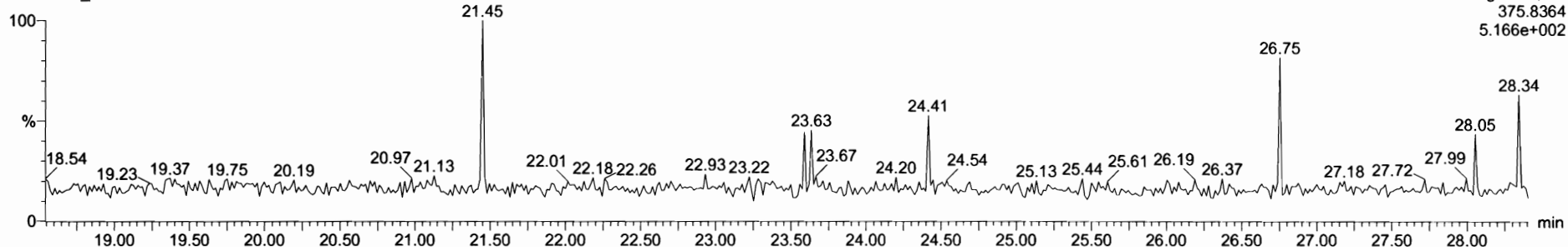


210408D1_5



DPE1

210408D1_5



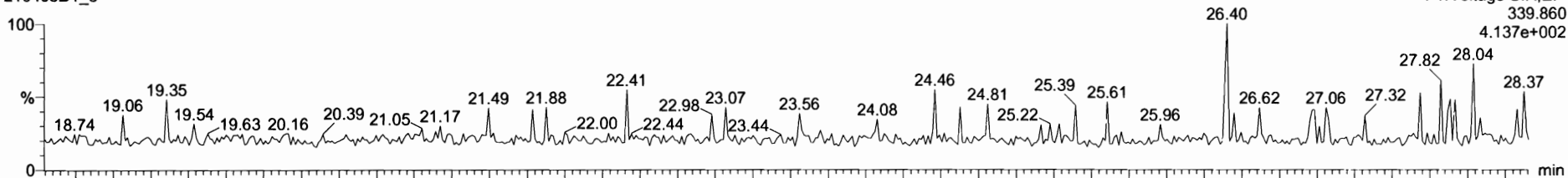
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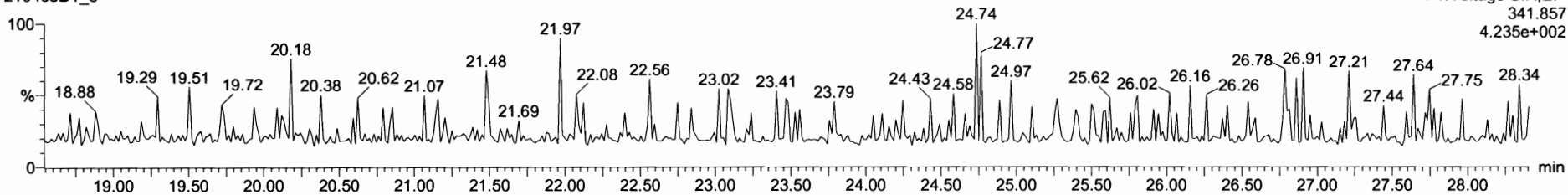
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1st Func. Penta-Furans

210408D1_5

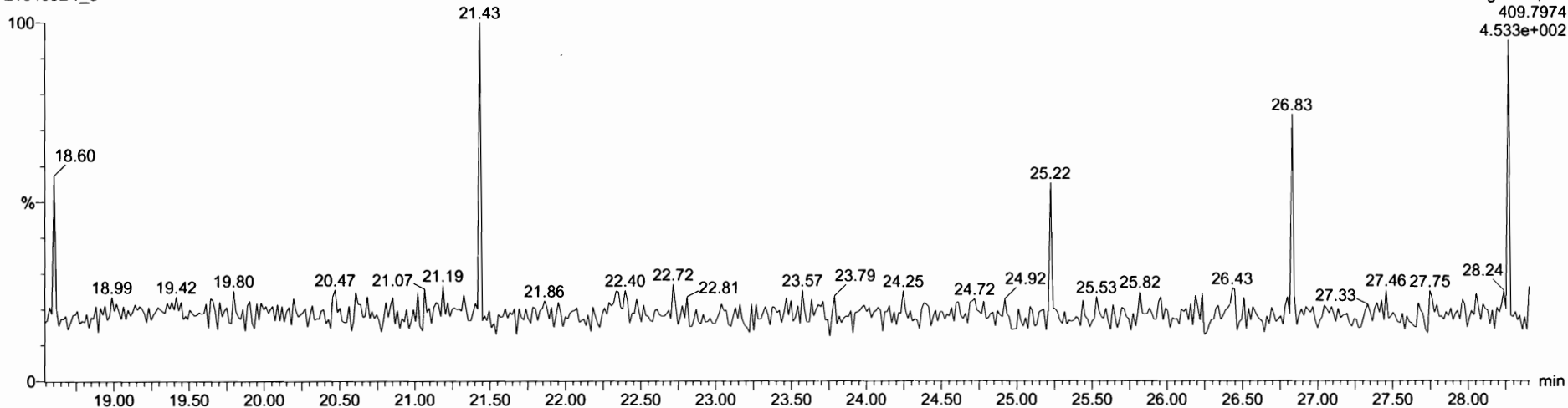


210408D1_5



DPE6

210408D1_5



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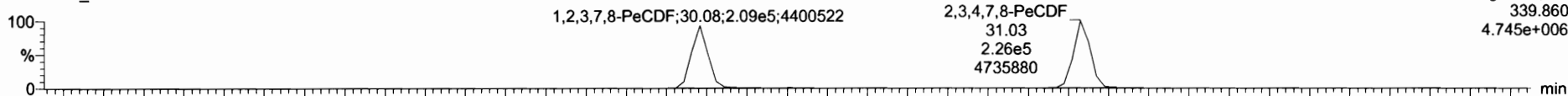
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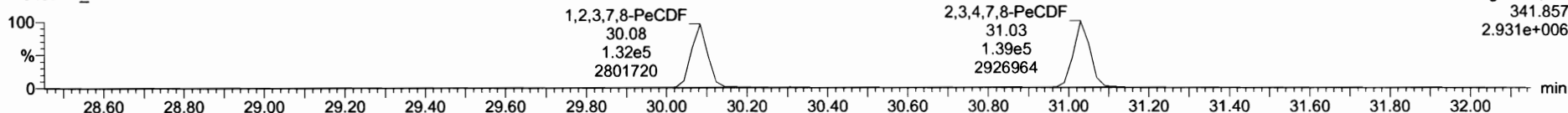
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1,2,3,7,8-PeCDF

210408D1_5

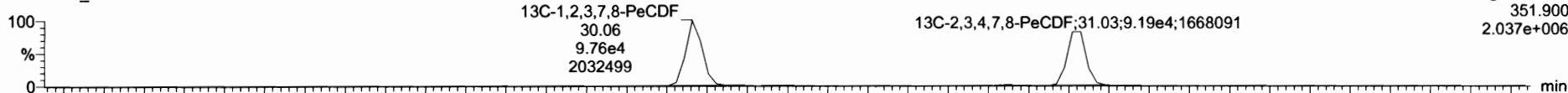


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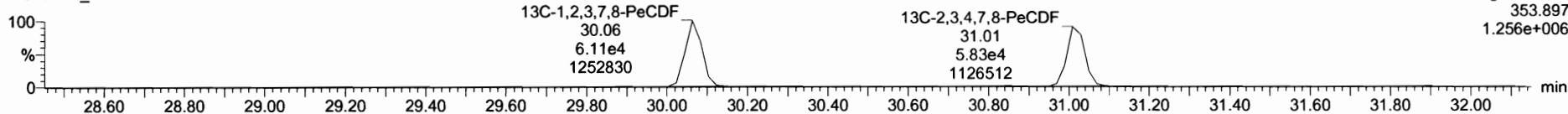


13C-1,2,3,7,8-PeCDF

210408D1_5

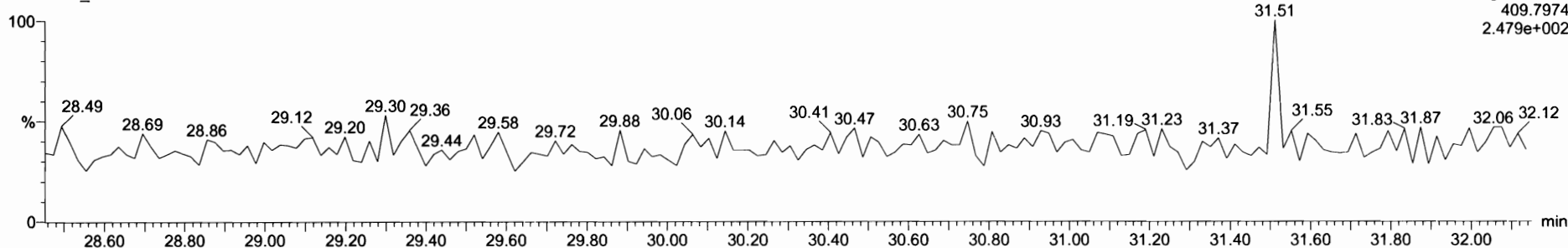


210408D1_5



DPE2

210408D1_5



Dataset: Untitled

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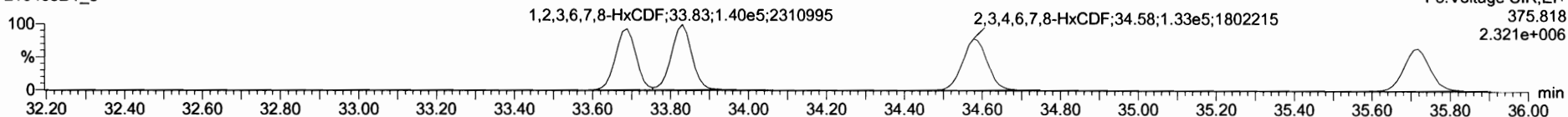
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1,2,3,4,7,8-HxCDF

210408D1_5

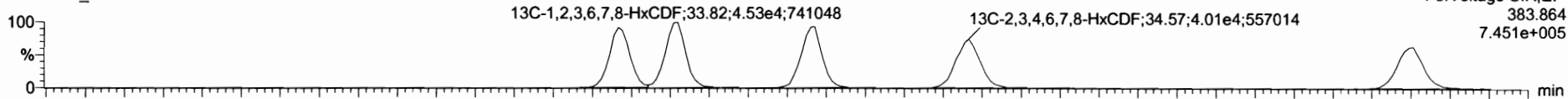


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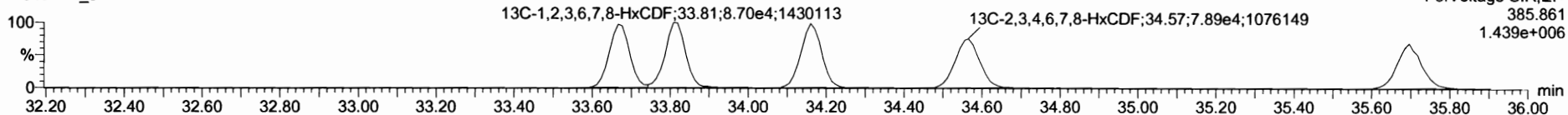


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210408D1_5

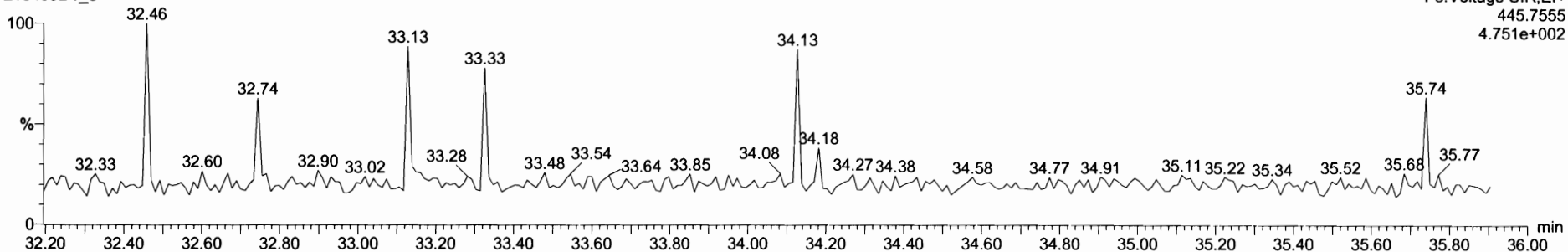


210408D1_5



DPE3

210408D1_5



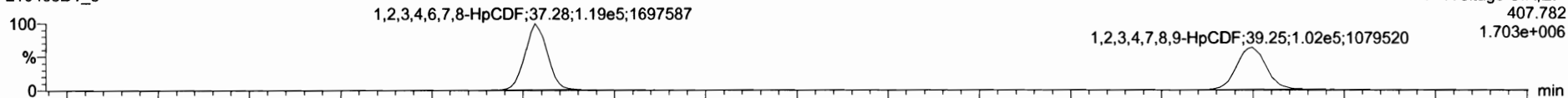
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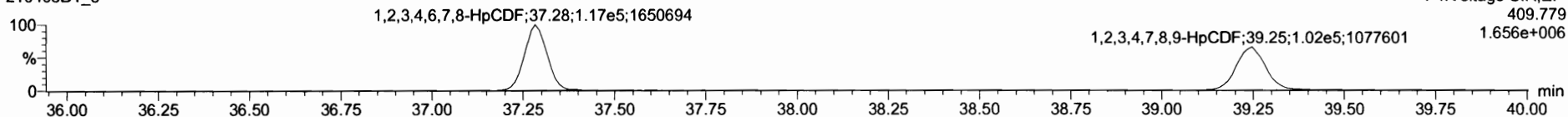
1,2,3,4,6,7,8-HpCDF

210408D1_5



F4:Voltage SIR,EI+
407.782
1.703e+006

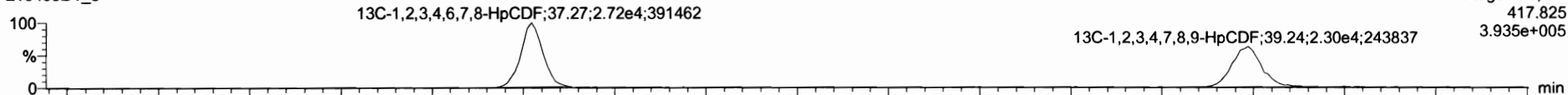
210408D1_5



F4:Voltage SIR,EI+
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1.656e+006

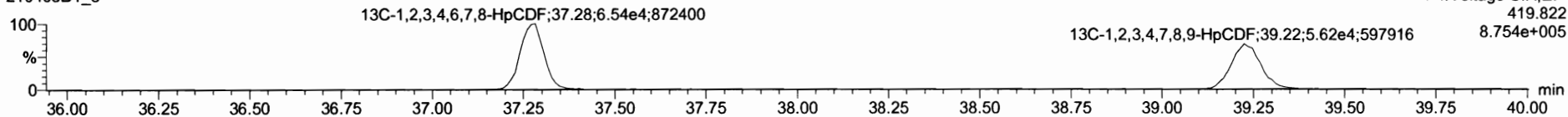
13C-1,2,3,4,6,7,8-HpCDF

210408D1_5



F4:Voltage SIR,EI+
417.825
3.935e+005

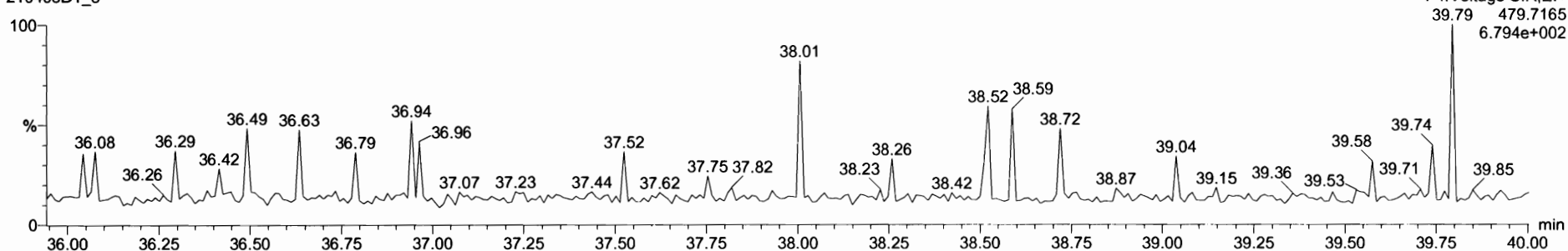
210408D1_5



F4:Voltage SIR,EI+
419.822
8.754e+005

DPE4

210408D1_5



F4:Voltage SIR,EI+
39.79 479.7165
6.794e+002

Dataset: Untitled

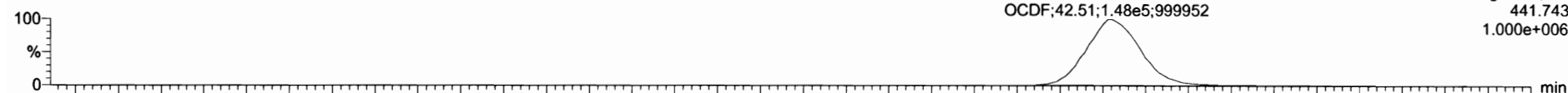
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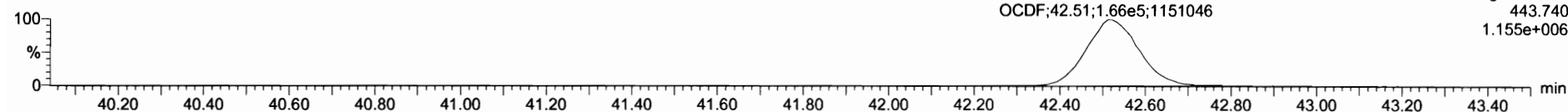
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OCDF

210408D1_5

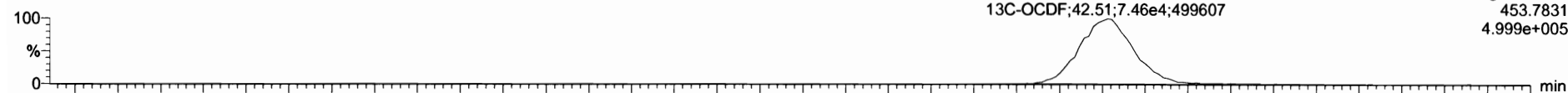


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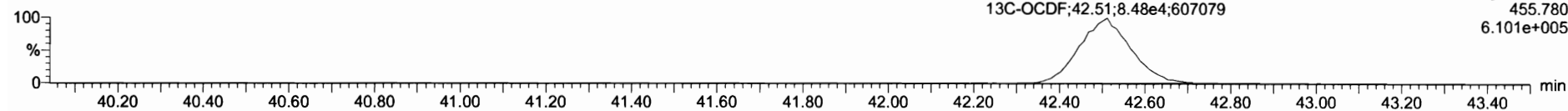


13C-OCDF

210408D1_5

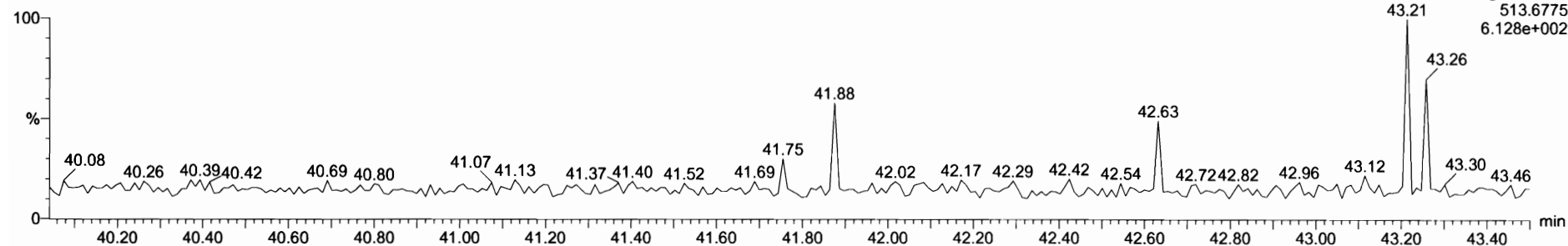


210408D1_5



DPE5

210408D1_5

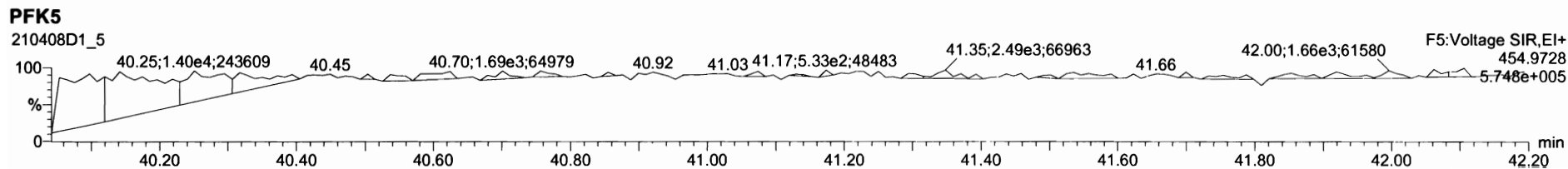
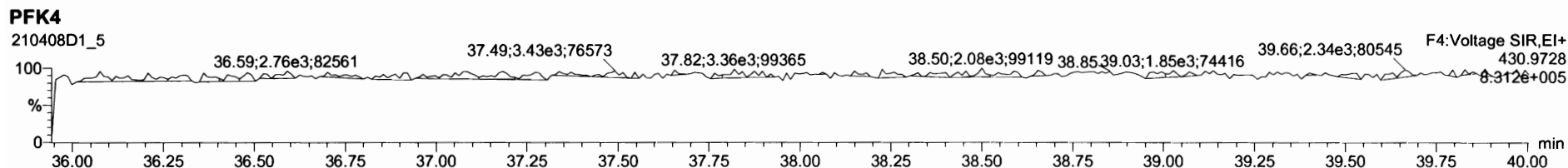
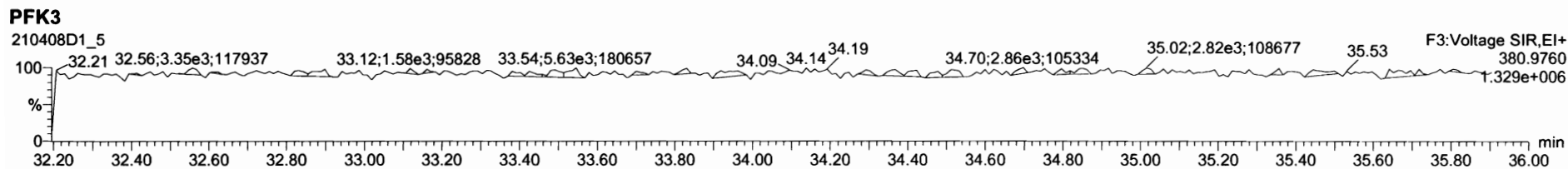
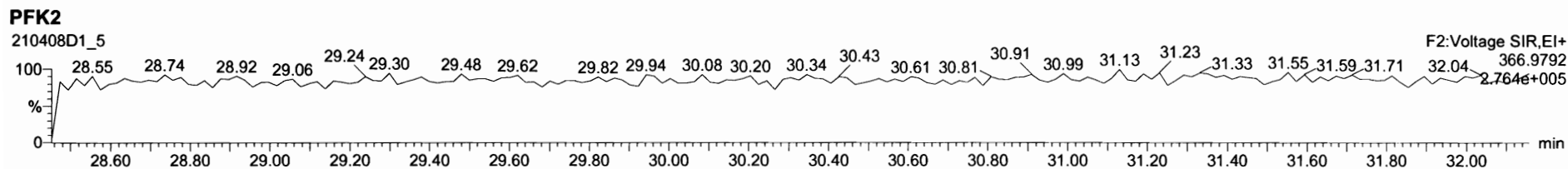
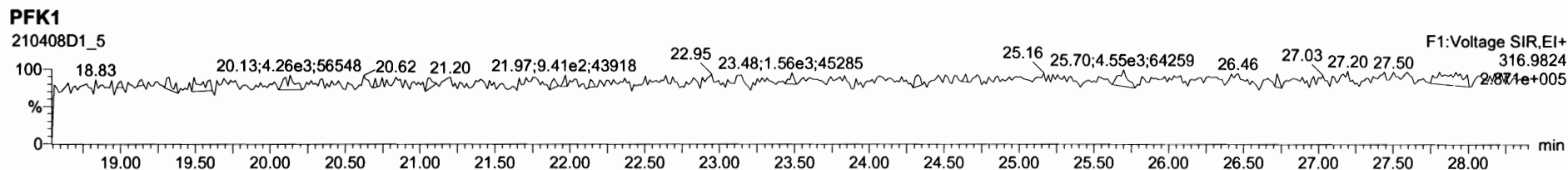


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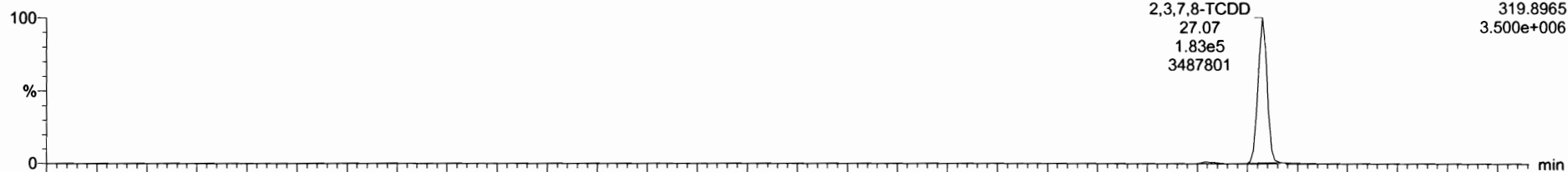
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

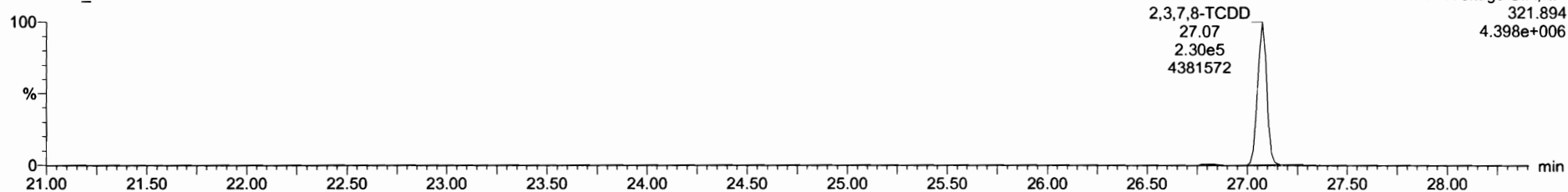
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2,3,7,8-TCDD

210408D1_6

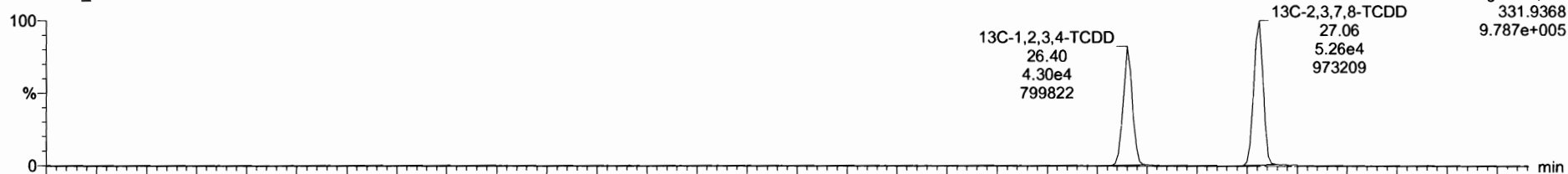


210408D1_6

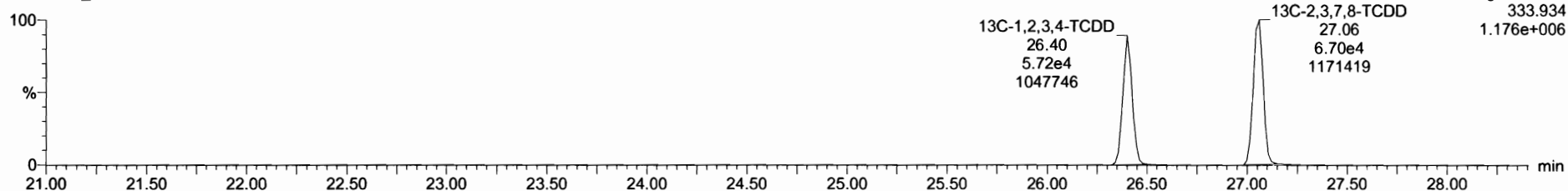


13C-2,3,7,8-TCDD

210408D1_6



210408D1_6



Dataset: Untitled

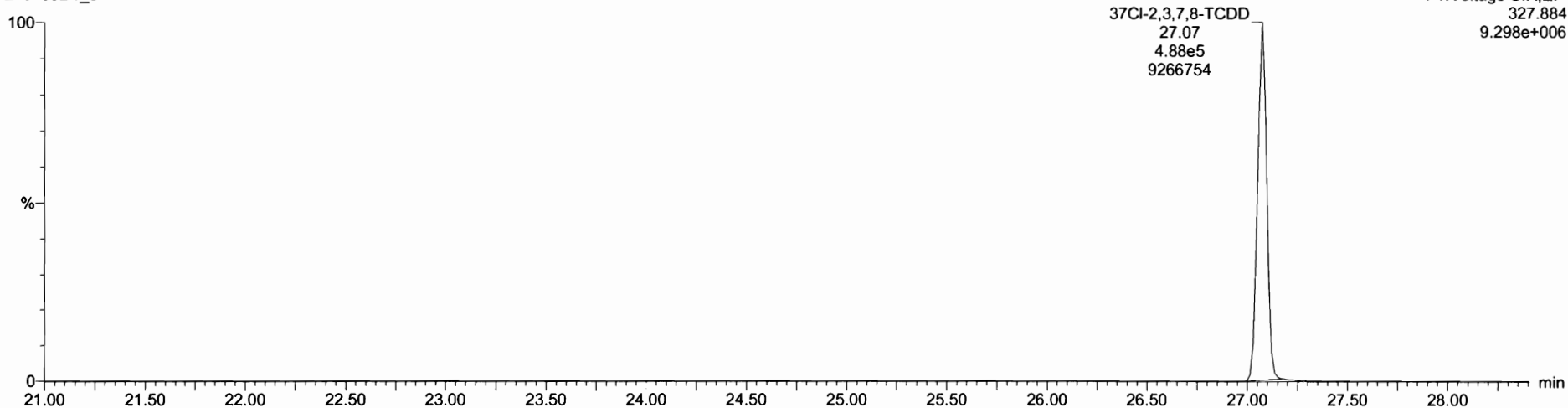
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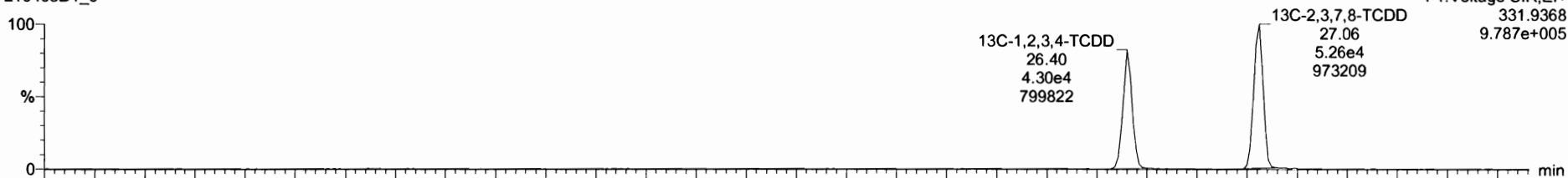
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210408D1_6

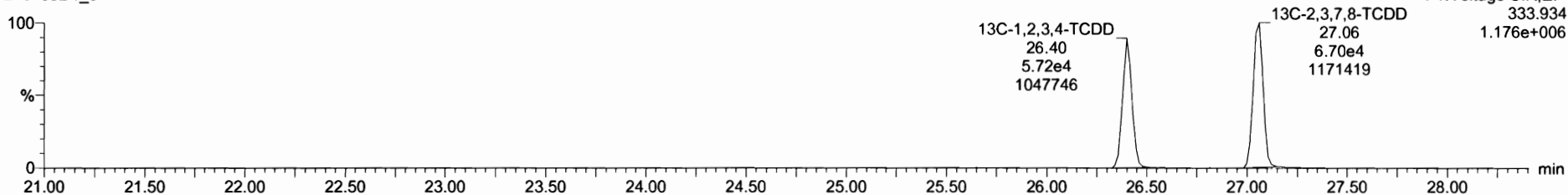


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210408D1_6



210408D1_6



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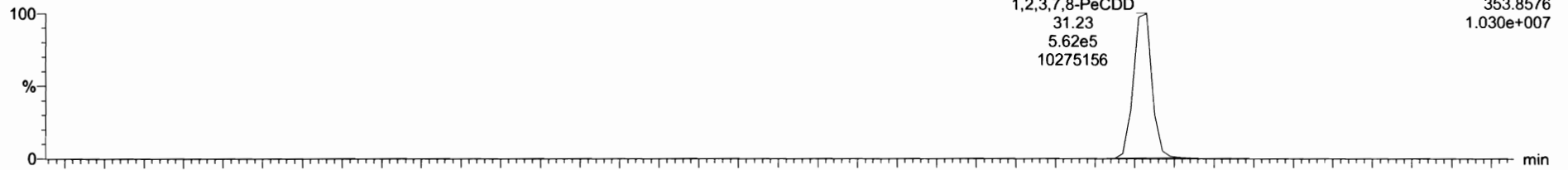
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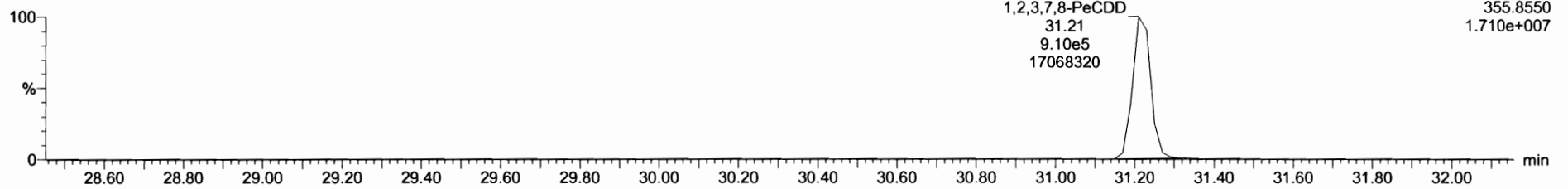
1,2,3,7,8-PeCDD

210408D1_6



F2:Voltage SIR,EI+
353.8576
1.030e+007

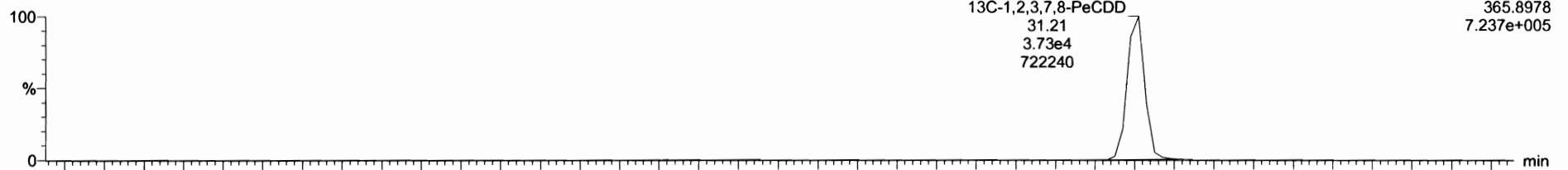
210408D1_6



F2:Voltage SIR,EI+
355.8550
1.710e+007

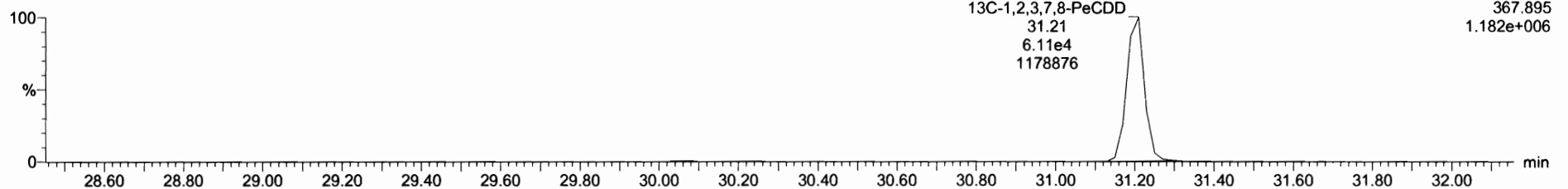
13C-1,2,3,7,8-PeCDD

210408D1_6



F2:Voltage SIR,EI+
365.8978
7.237e+005

210408D1_6



F2:Voltage SIR,EI+
367.895
1.182e+006

Dataset: Untitled

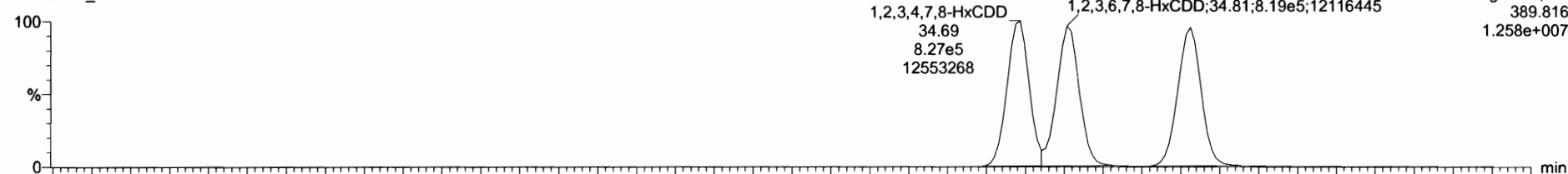
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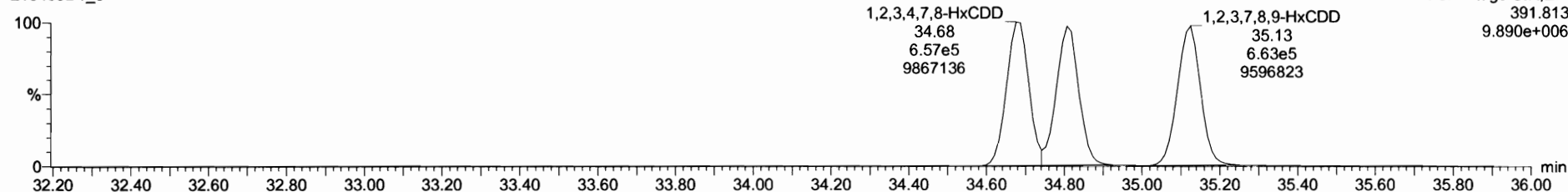
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1,2,3,4,7,8-HxCDD

210408D1_6

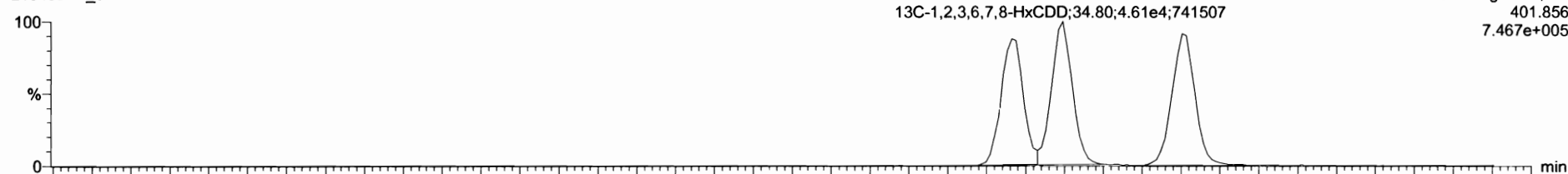


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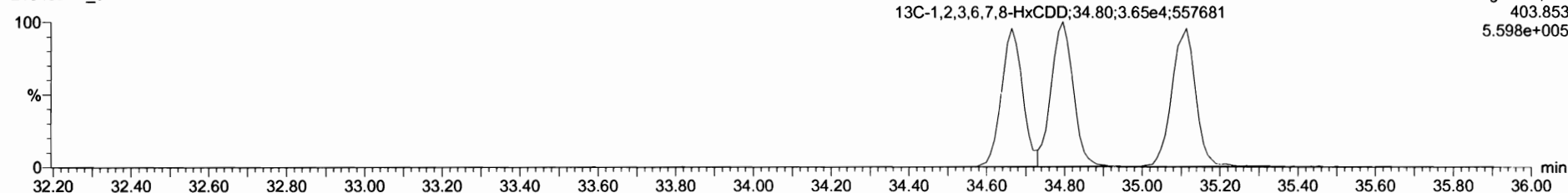


13C-1,2,3,4,7,8-HxCDD

210408D1_6



210408D1_6



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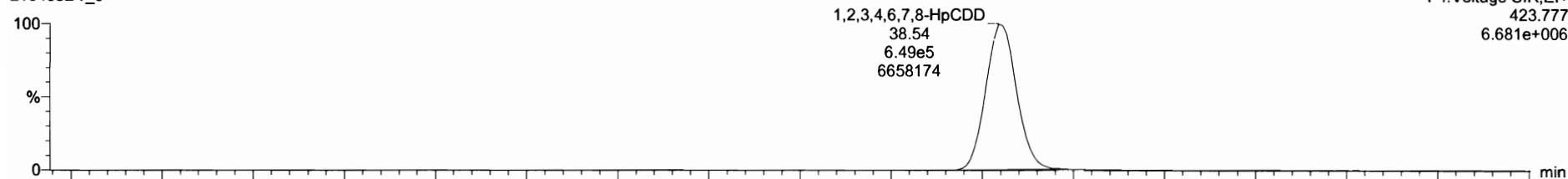
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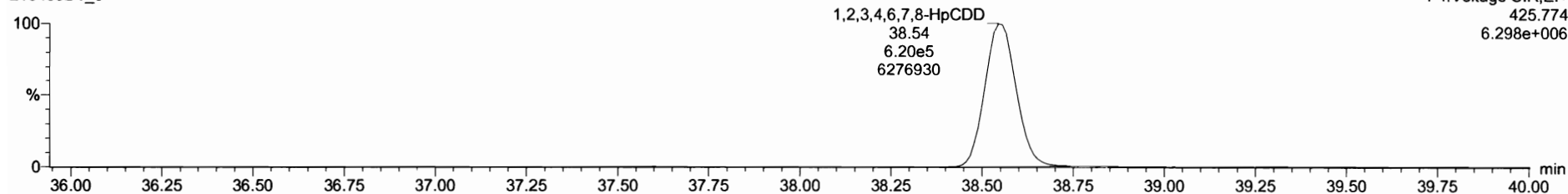
1,2,3,4,6,7,8-HpCDD

210408D1_6



F4:Voltage SIR,EI+
423.777
6.681e+006

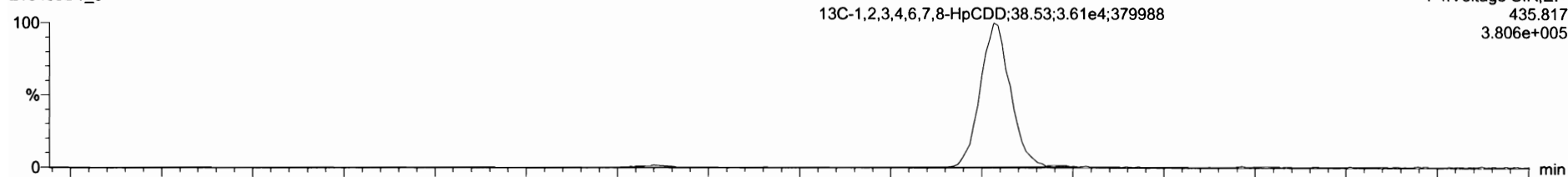
210408D1_6



F4:Voltage SIR,EI+
425.774
6.298e+006

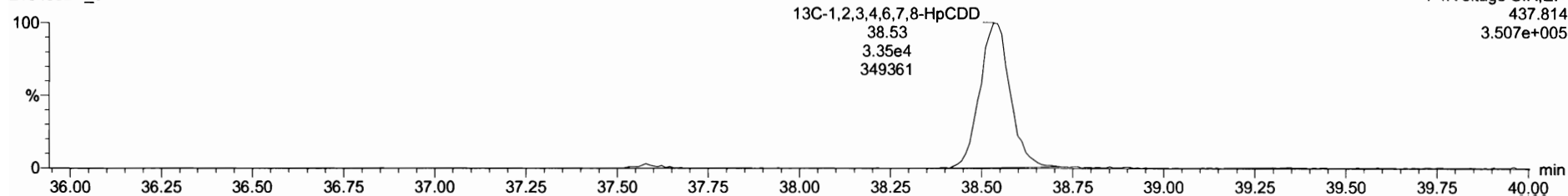
13C-1,2,3,4,6,7,8-HpCDD

210408D1_6



F4:Voltage SIR,EI+
435.817
3.806e+005

210408D1_6

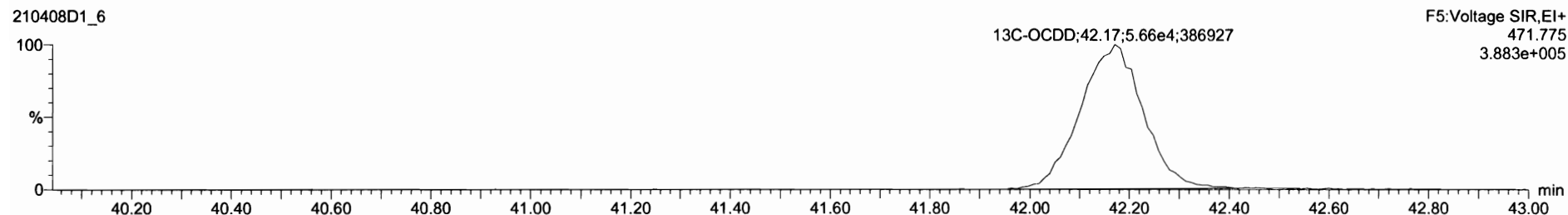
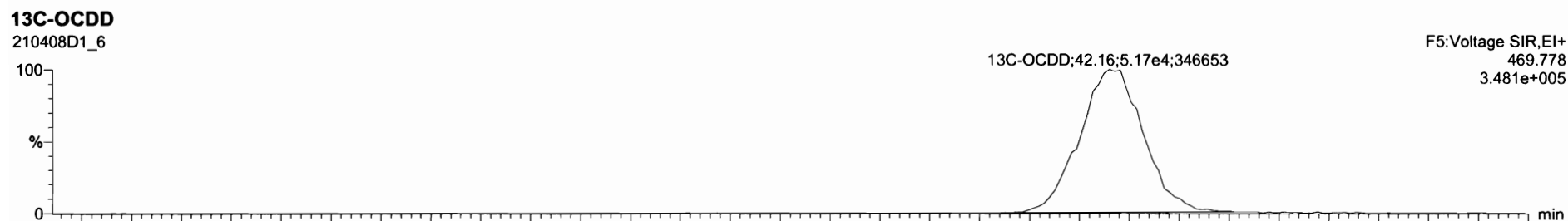
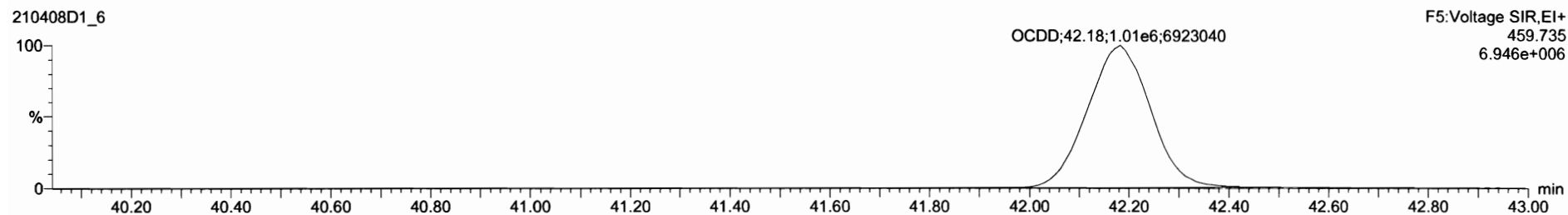
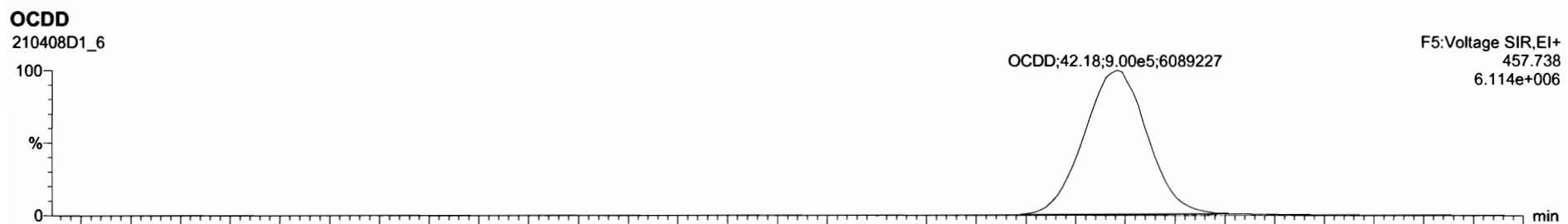


F4:Voltage SIR,EI+
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3.507e+005

Dataset: Untitled

Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

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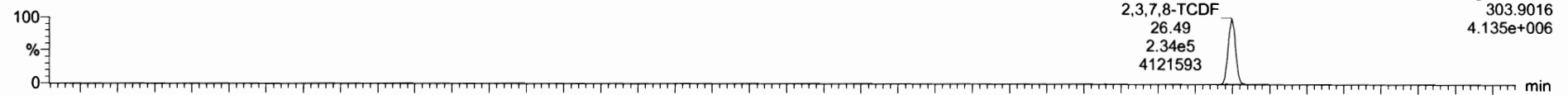
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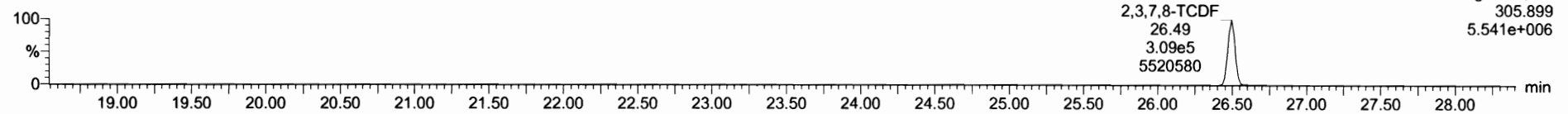
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2,3,7,8-TCDF

210408D1_6

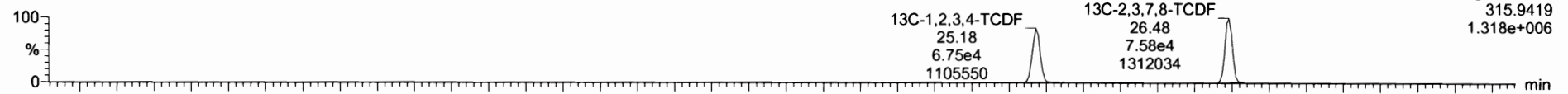


210408D1_6

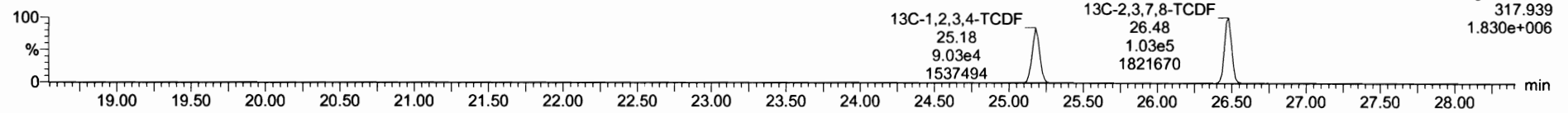


13C-2,3,7,8-TCDF

210408D1_6

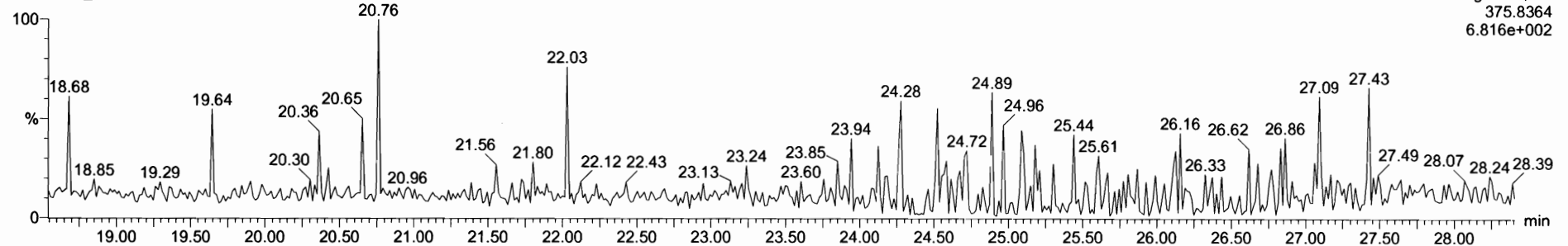


210408D1_6



DPE1

210408D1_6



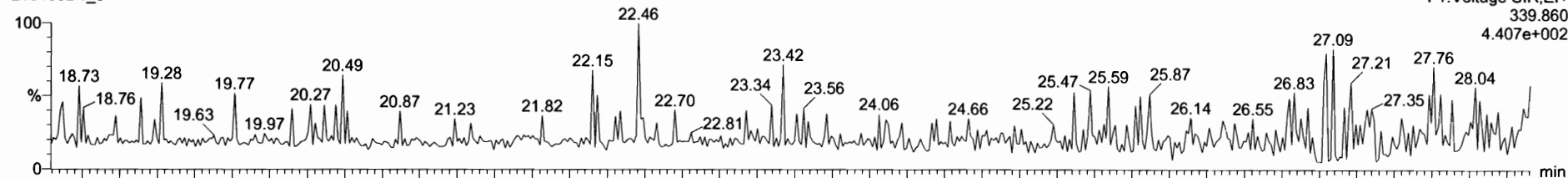
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

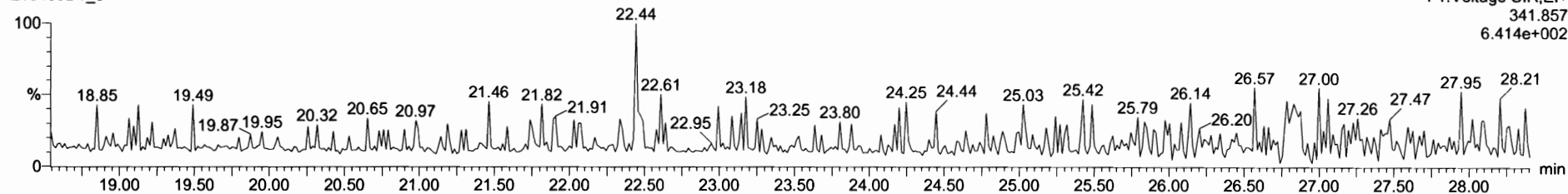
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210408D1_6

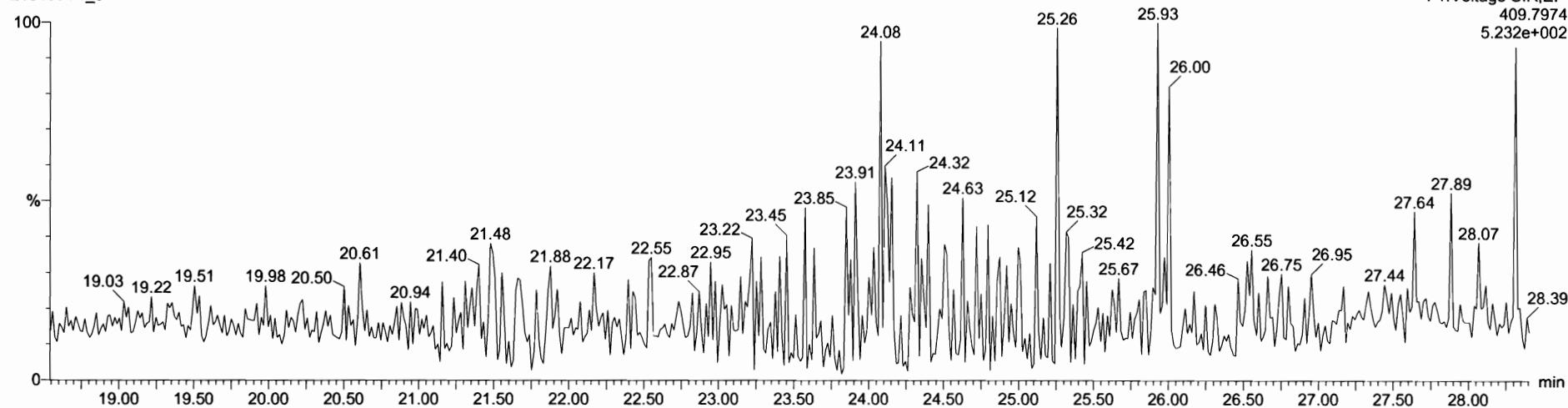


210408D1_6



DPE6

210408D1_6



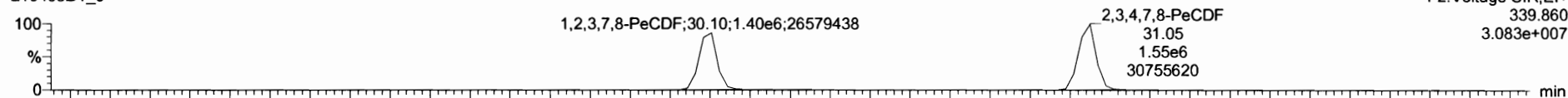
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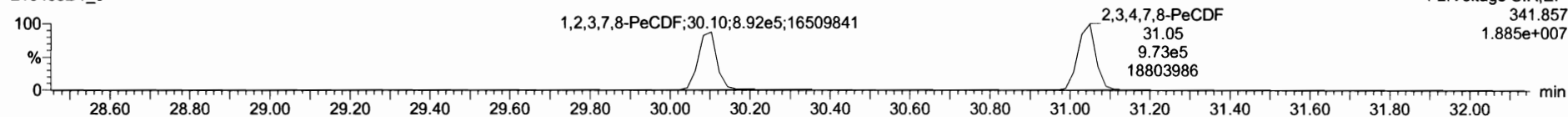
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1,2,3,7,8-PeCDF

210408D1_6



210408D1_6

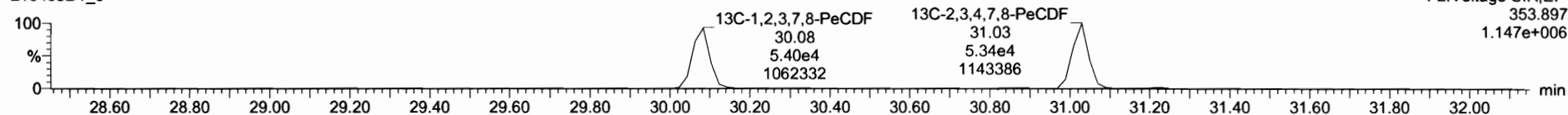


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210408D1_6

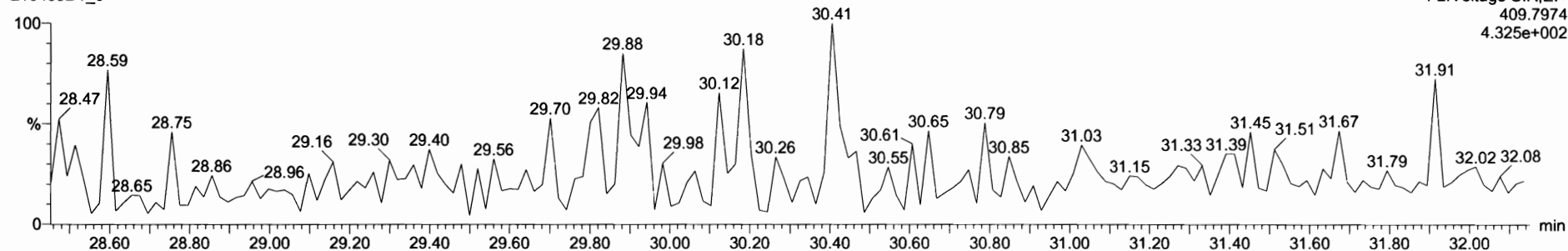


210408D1_6



DPE2

210408D1_6



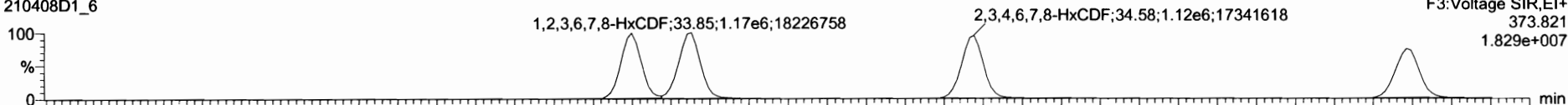
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

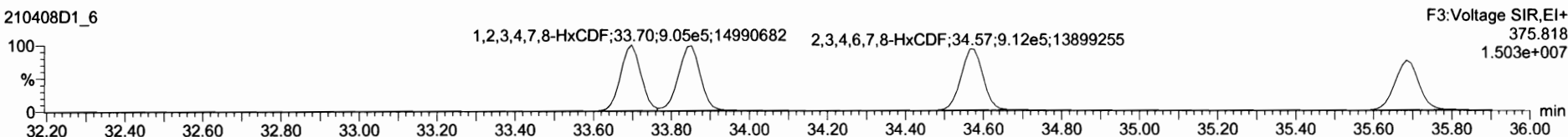
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1,2,3,4,7,8-HxCDF

210408D1_6

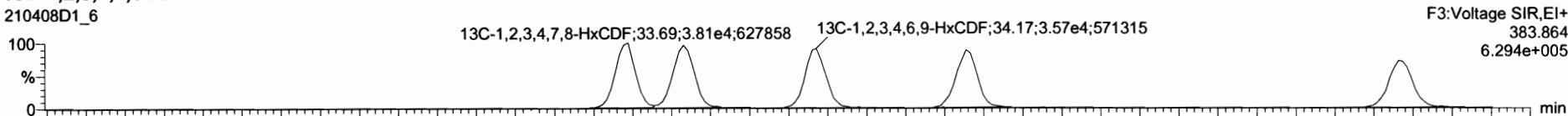


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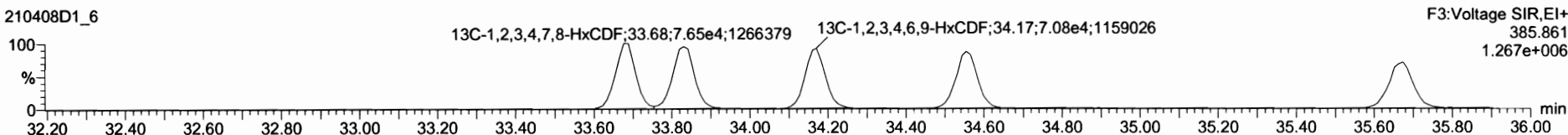


13C-1,2,3,4,7,8-HxCDF

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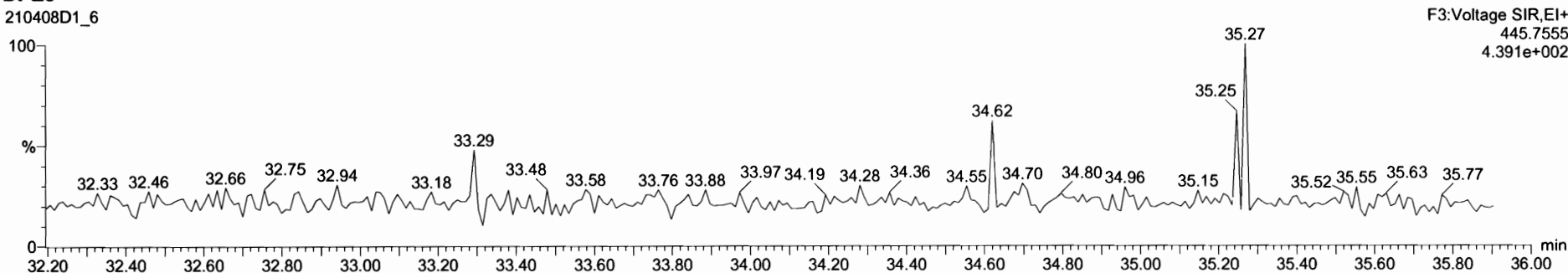


210408D1_6



DPE3

210408D1_6



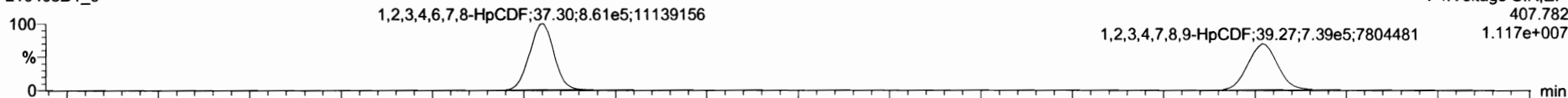
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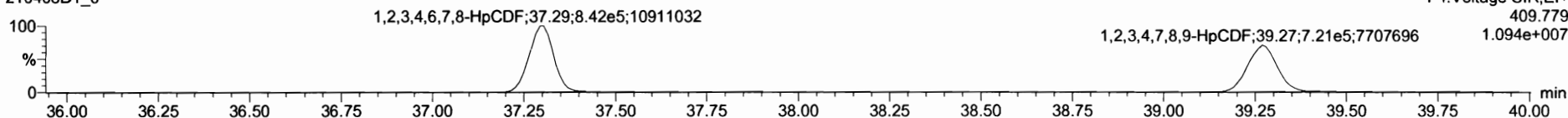
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1,2,3,4,6,7,8-HpCDF

210408D1_6

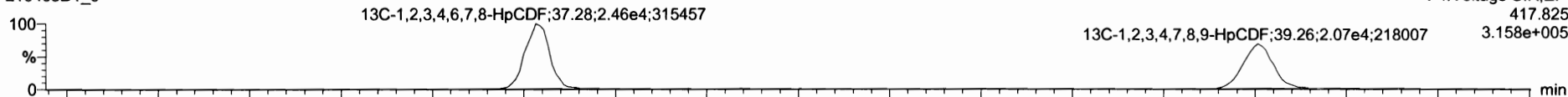


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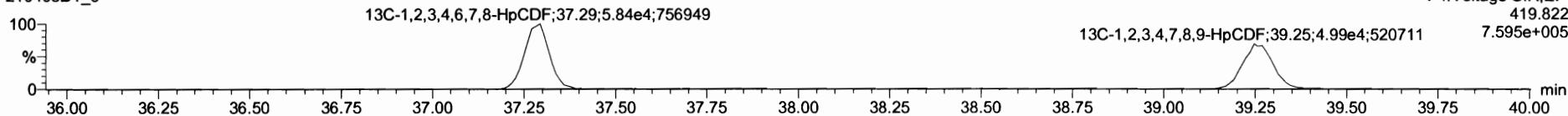


13C-1,2,3,4,6,7,8-HpCDF

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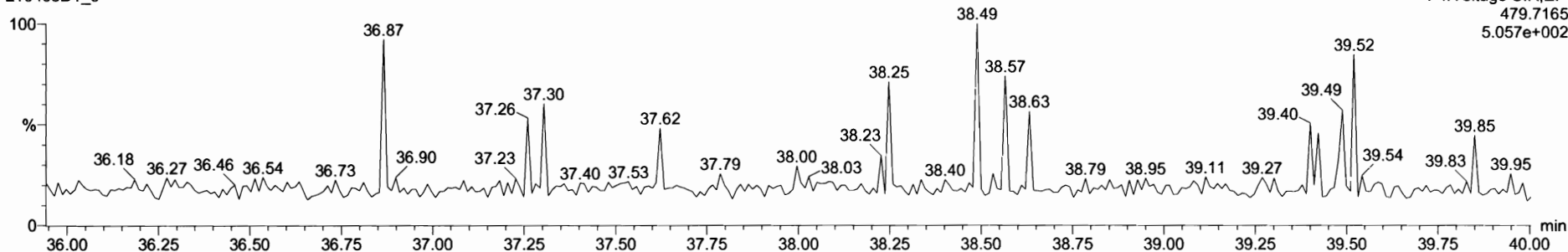


210408D1_6



DPE4

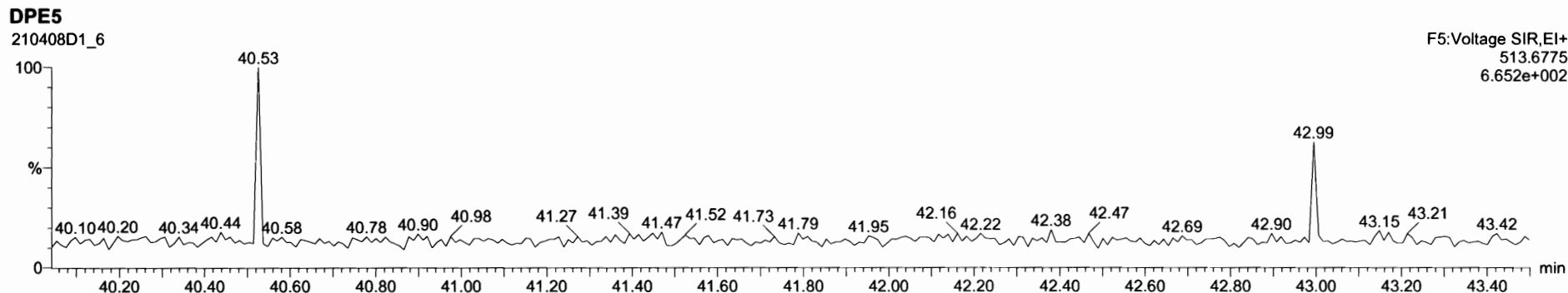
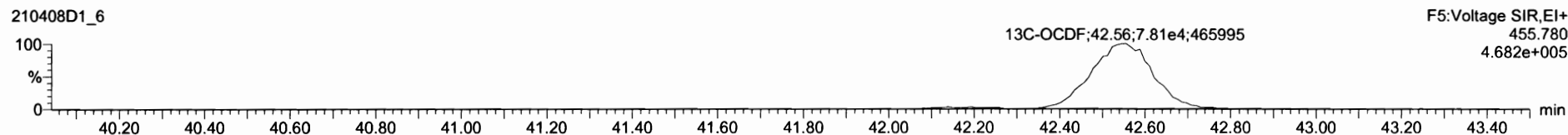
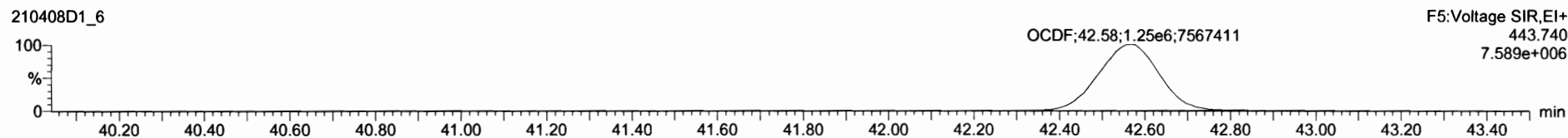
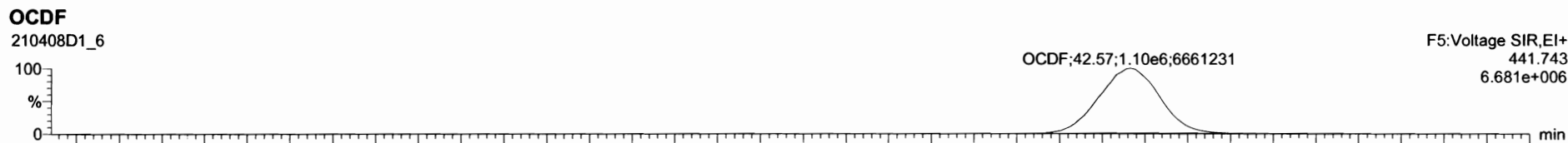
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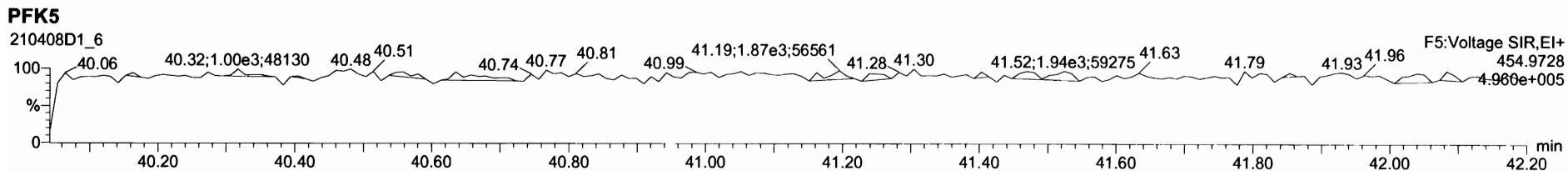
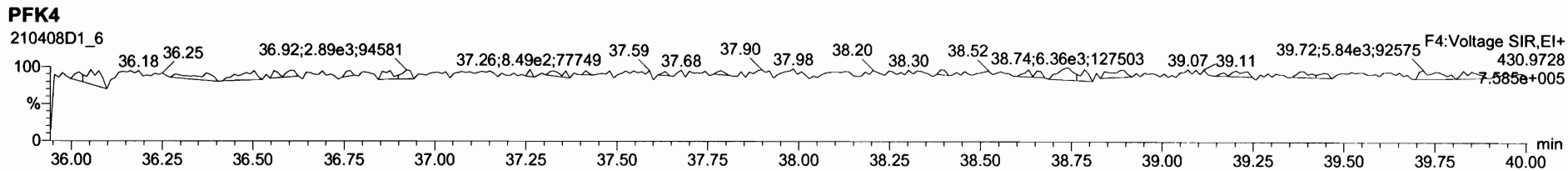
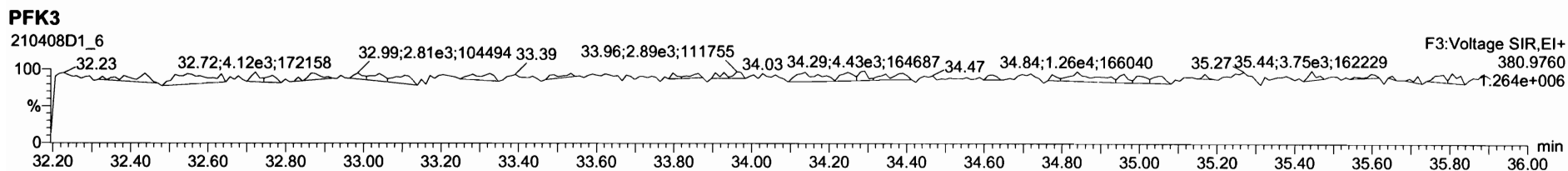
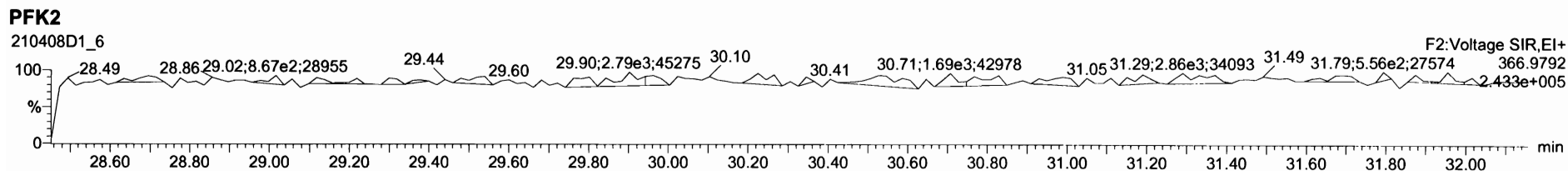
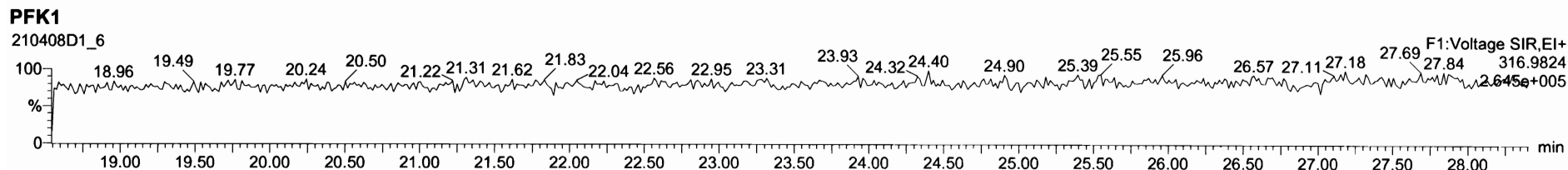
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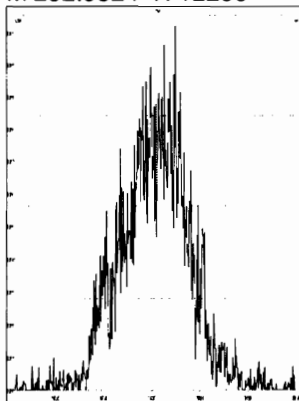
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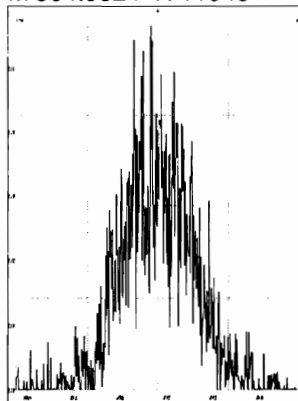


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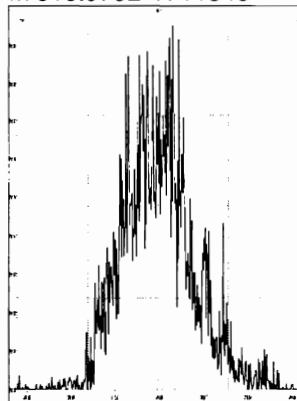
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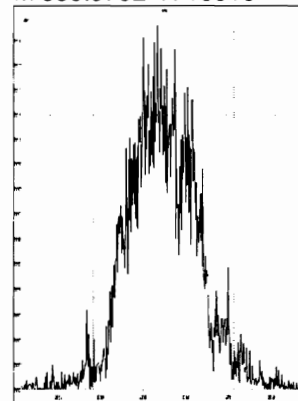
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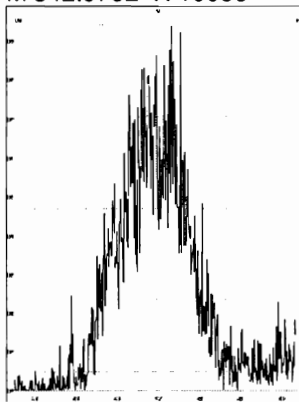
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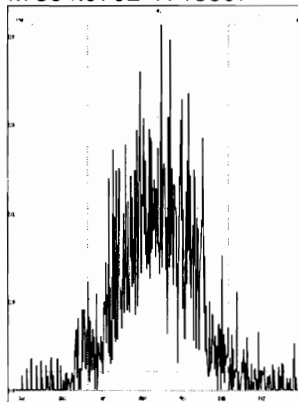
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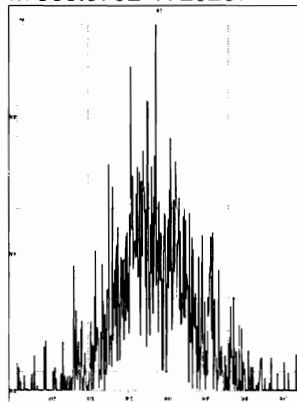
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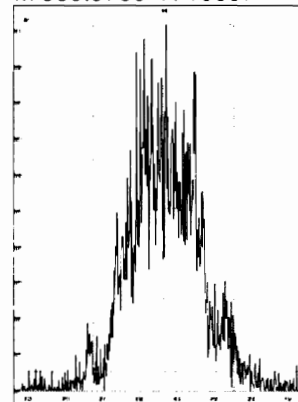
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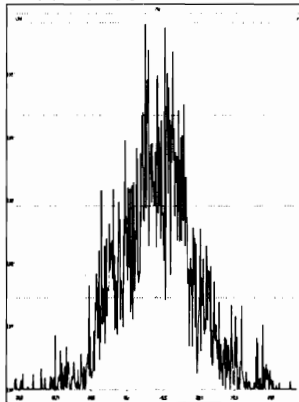
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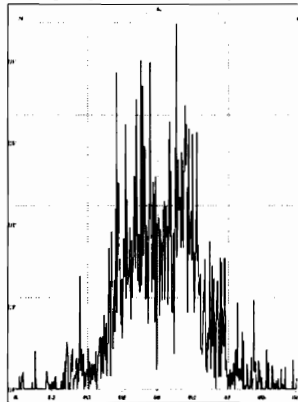
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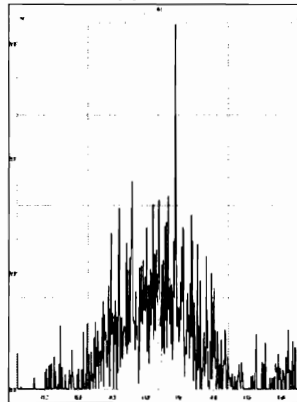
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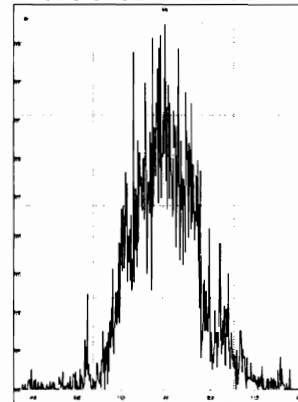
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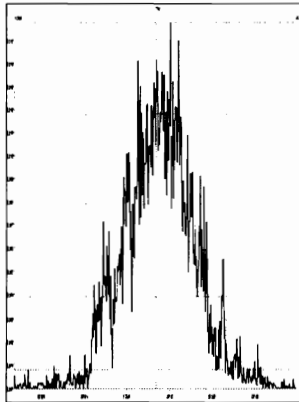
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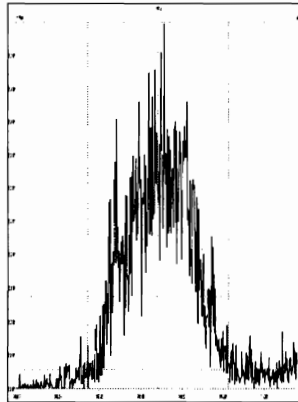
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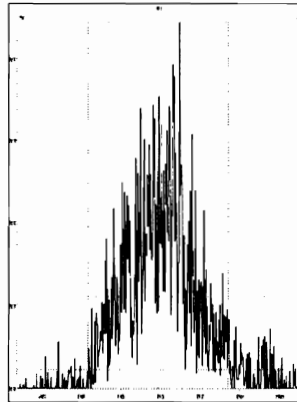
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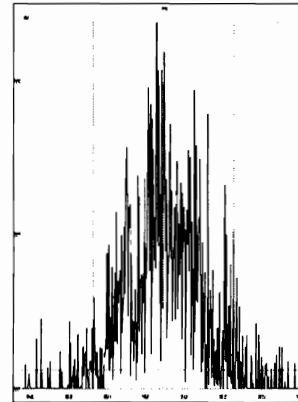
M 342.9792 R 11198



M 354.9792 R 12417

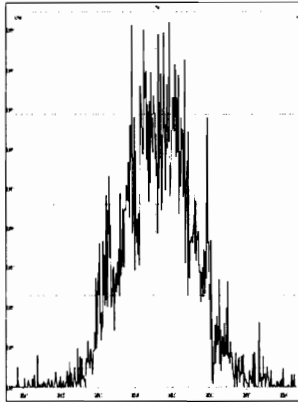


M 366.9792 R 22329

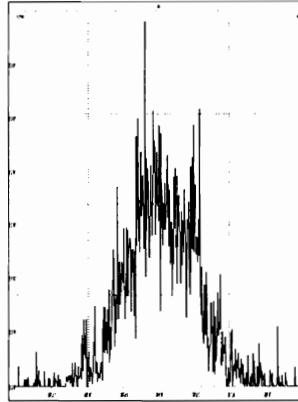


Printed: Thursday, April 08, 2021 18:08:55 Pacific Daylight Time

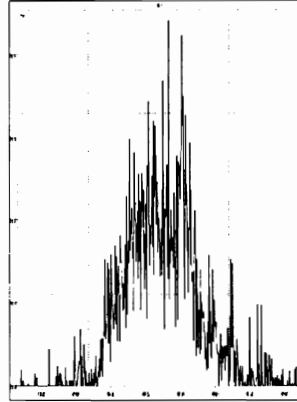
M 380.9760 R 12146



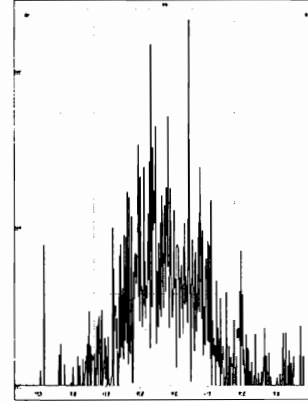
M 392.9760 R 12073



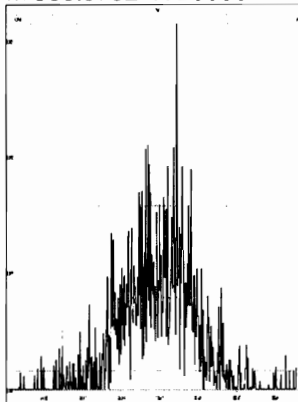
M 404.9760 R 12863



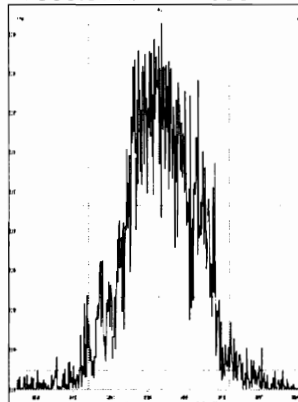
M 416.9760 R 20267



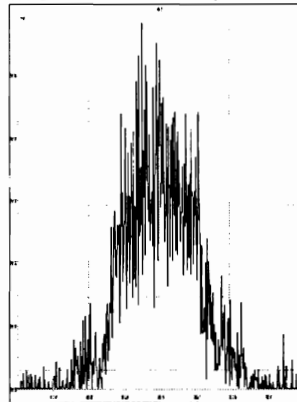
M 366.9792 R 23538



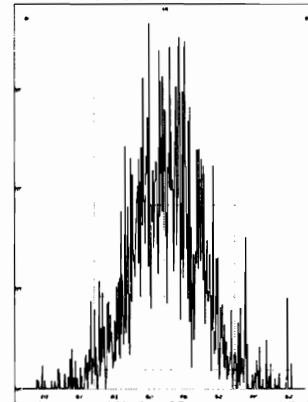
M 380.9760 R 11933



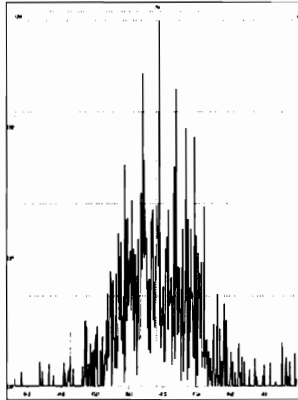
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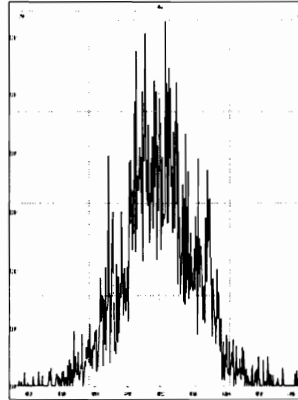
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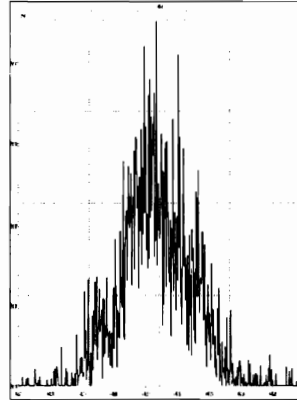
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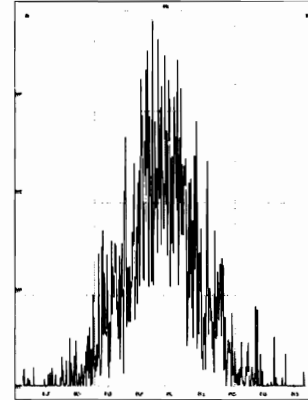
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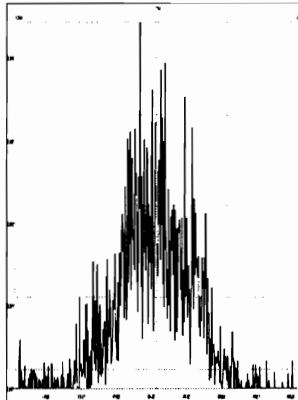
M 442.9728 R 12906



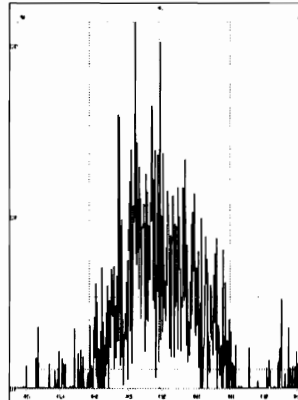
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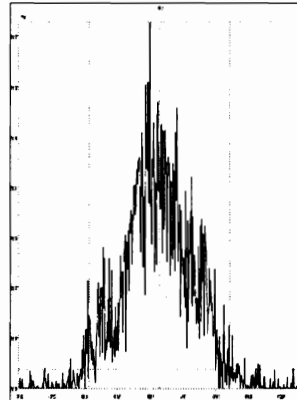
M 404.9760 R 12671



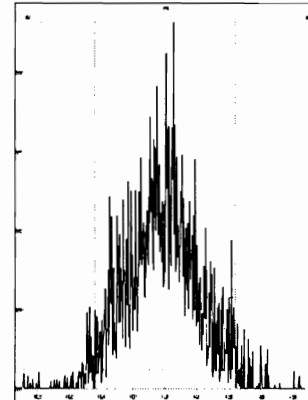
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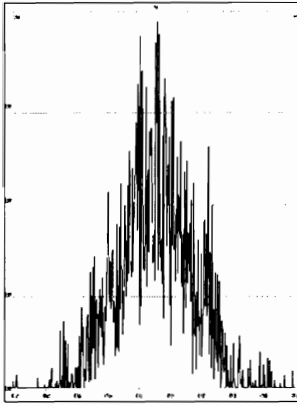
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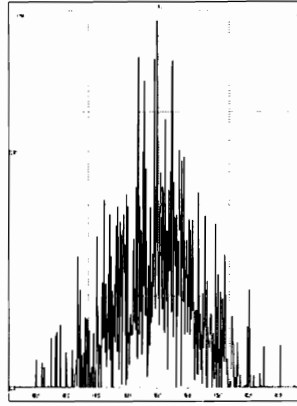
M 442.9728 R 11961



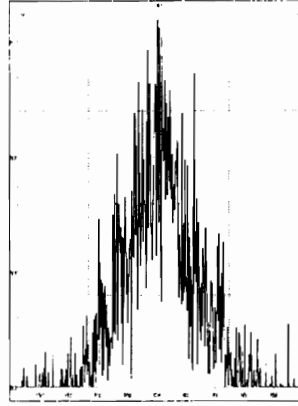
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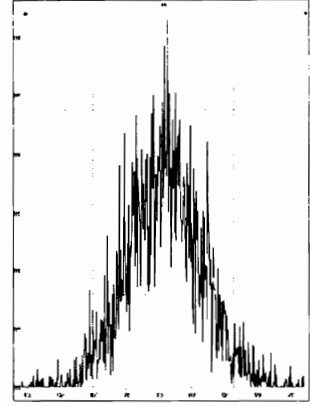
M 466.9728 R 23658



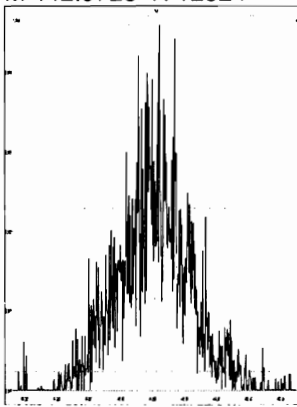
M 480.9696 R 14006



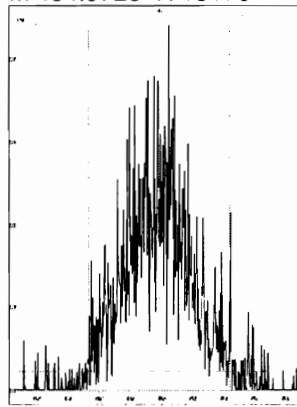
M 430.9728 R 11170



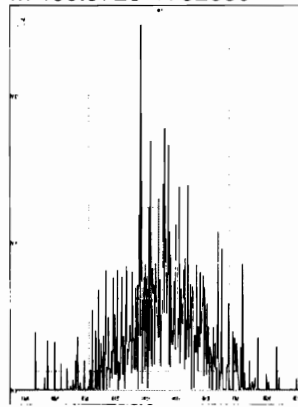
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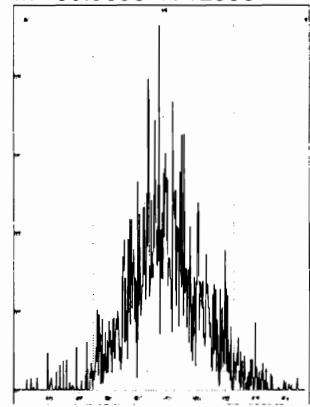
M 454.9728 R 13178



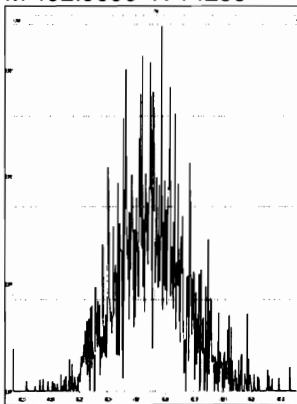
M 466.9728 R 32680



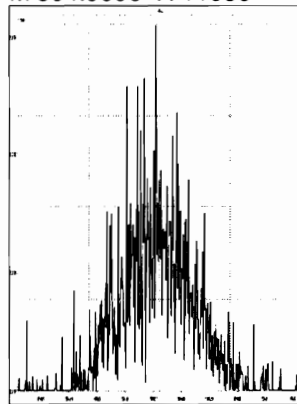
M 480.9696 R 12995



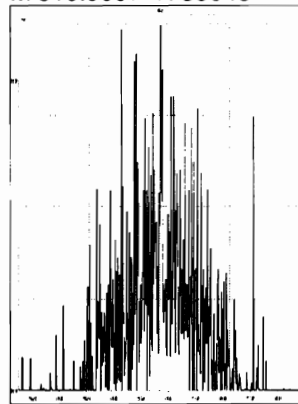
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M 504.9696 R 11933



M 516.9697 R 35048



Dataset: U:\VG7.PRO\Results\210408D1\210408D1-7.qld

Last Altered: Friday, April 09, 2021 08:08:05 Pacific Daylight Time
 Printed: Friday, April 09, 2021 14:36:23 Pacific Daylight Time

H 4-9-2021
OC 4/12/21

Method: C:\MassLynx\Default.pro\Methdb\1613_rrt_4-6-21.mdb 06 Apr 2021 09:18:07
 Calibration: U:\VG7.PRO\CurveDB\ZB_DIOXIN_1613vg7-4-8-21.cdb 09 Apr 2021 07:54:40

Name: 210408D1_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108, Task: ICAL210408D1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.18e4	0.79	NO	1.05	1.000	27.06	1.001	8.5525	85.5	0.0377	8.55
2	1,2,3,7,8-PeCDD	4.05e4	0.64	NO	0.881	1.000	31.21	1.000	45.467	90.9	0.0895	45.5
3	1,2,3,4,7,8-HxCDD	4.00e4	1.24	NO	1.14	1.000	34.67	1.000	46.900	93.8	0.231	46.9
4	1,2,3,6,7,8-HxCDD	4.11e4	1.24	NO	1.01	1.000	34.81	1.000	49.637	99.3	0.239	49.6
5	1,2,3,7,8,9-HxCDD	4.02e4	1.23	NO	1.02	1.000	35.11	1.000	45.272	90.5	0.237	45.3
6	1,2,3,4,6,7,8-HpCDD	3.33e4	1.04	NO	1.07	1.000	38.50	1.001	45.191	90.4	0.375	45.2
7	OCDD	5.08e4	0.92	NO	1.00	1.000	42.18	1.000	95.903	95.9	0.623	95.9
8	2,3,7,8-TCDF	1.62e4	0.77	NO	0.864	1.000	26.49	1.001	9.1890	91.9	0.0452	9.19
9	1,2,3,7,8-PeCDF	6.51e4	1.65	NO	0.948	1.000	30.08	1.000	47.291	94.6	0.158	47.3
10	2,3,4,7,8-PeCDF	7.47e4	1.69	NO	1.04	1.000	31.05	1.001	51.097	102	0.131	51.1
11	1,2,3,4,7,8-HxCDF	5.89e4	1.25	NO	1.04	1.000	33.69	1.000	48.077	96.2	0.198	48.1
12	1,2,3,6,7,8-HxCDF	6.00e4	1.24	NO	1.07	1.000	33.84	1.001	46.573	93.1	0.189	46.6
13	2,3,4,6,7,8-HxCDF	5.83e4	1.26	NO	1.12	1.000	34.56	1.001	47.385	94.8	0.220	47.4
14	1,2,3,7,8,9-HxCDF	4.93e4	1.23	NO	1.10	1.000	35.67	1.000	44.666	89.3	0.255	44.7
15	1,2,3,4,6,7,8-HpCDF	4.84e4	1.04	NO	1.16	1.000	37.26	1.000	48.966	97.9	0.270	49.0
16	1,2,3,4,7,8,9-HpCDF	3.93e4	1.05	NO	1.19	1.000	39.26	1.000	46.646	93.3	0.448	46.6
17	OCDF	5.89e4	0.89	NO	0.909	1.000	42.52	1.000	90.008	90.0	0.503	90.0
18	13C-2,3,7,8-TCDD	1.32e5	0.77	NO	1.15	1.000	27.04	1.024	96.459	96.5	0.238	
19	13C-1,2,3,7,8-PeCDD	1.01e5	0.61	NO	0.887	1.000	31.21	1.182	95.164	95.2	0.183	
20	13C-1,2,3,4,7,8-HxCDD	7.45e4	1.29	NO	0.645	1.000	34.66	1.015	95.531	95.5	0.310	
21	13C-1,2,3,6,7,8-HxCDD	8.20e4	1.24	NO	0.717	1.000	34.80	1.019	94.584	94.6	0.279	
22	13C-1,2,3,7,8,9-HxCDD	8.70e4	1.25	NO	0.714	1.000	35.10	1.028	100.76	101	0.280	
23	13C-1,2,3,4,6,7,8-HpCDD	6.91e4	1.04	NO	0.583	1.000	38.48	1.126	97.950	98.0	0.640	
24	13C-OCDD	1.06e5	0.92	NO	0.451	1.000	42.17	1.235	193.79	96.9	0.364	
25	13C-2,3,7,8-TCDF	2.04e5	0.81	NO	1.09	1.000	26.48	1.003	100.30	100	0.179	
26	13C-1,2,3,7,8-PeCDF	1.45e5	1.60	NO	0.805	1.000	30.08	1.139	96.585	96.6	0.277	
27	13C-2,3,4,7,8-PeCDF	1.41e5	1.63	NO	0.792	1.000	31.03	1.175	95.208	95.2	0.282	
28	13C-1,2,3,4,7,8-HxCDF	1.17e5	0.53	NO	0.997	1.000	33.68	0.986	97.320	97.3	0.339	
29	13C-1,2,3,6,7,8-HxCDF	1.20e5	0.51	NO	1.03	1.000	33.82	0.990	96.391	96.4	0.328	
30	13C-2,3,4,6,7,8-HxCDF	1.10e5	0.49	NO	0.940	1.000	34.54	1.011	96.990	97.0	0.359	
31	13C-1,2,3,7,8,9-HxCDF	1.00e5	0.50	NO	0.852	1.000	35.66	1.044	97.479	97.5	0.396	
32	13C-1,2,3,4,6,7,8-HpCDF	8.53e4	0.43	NO	0.727	1.000	37.25	1.090	97.030	97.0	0.590	

Handwritten arrow pointing from row 1 to row 17, with '85.5' written above it.

Dataset: U:\VG7.PRO\Results\210408D1\210408D1-7.qld

Last Altered: Friday, April 09, 2021 08:08:05 Pacific Daylight Time

Printed: Friday, April 09, 2021 14:36:23 Pacific Daylight Time

Name: 210408D1_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108, Task: ICAL210408D1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
33	13C-1,2,3,4,7,8,9-HpCDF	7.10e4	0.41	NO	0.608	1.000	39.25	1.149	96.560	96.6	0.706	
34	13C-OCDF	1.44e5	0.86	NO	0.631	1.000	42.52	1.245	188.78	94.4	0.277	
35	37Cl-2,3,7,8-TCDD	2.31e4			2.22	1.000	27.06	1.025	8.7187	87.2	0.0181	
36	13C-1,2,3,4-TCDD	1.20e5	0.75	NO	1.00	1.000	26.40	1.000	100.00	100	0.273	
37	13C-1,2,3,4-TCDF	1.87e5	0.79	NO	1.00	1.000	25.18	1.000	100.00	100	0.196	
38	13C-1,2,3,4,6,9-HxCDF	1.21e5	0.49	NO	1.00	1.000	34.16	1.000	100.00	100	0.338	

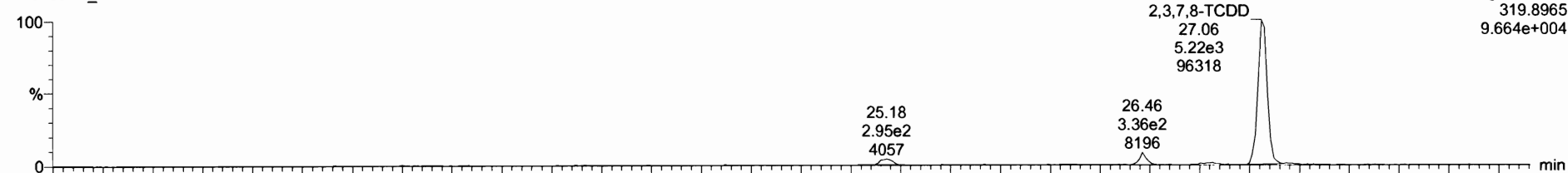
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

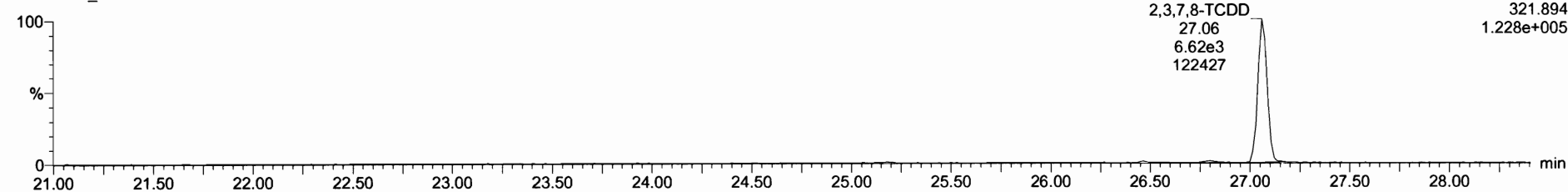
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2,3,7,8-TCDD

210408D1_7

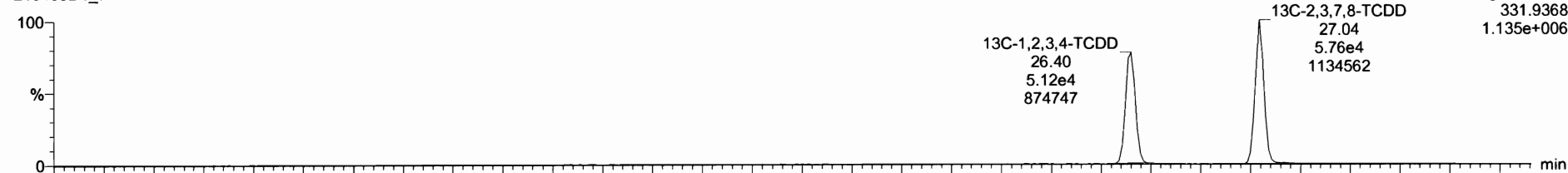


210408D1_7

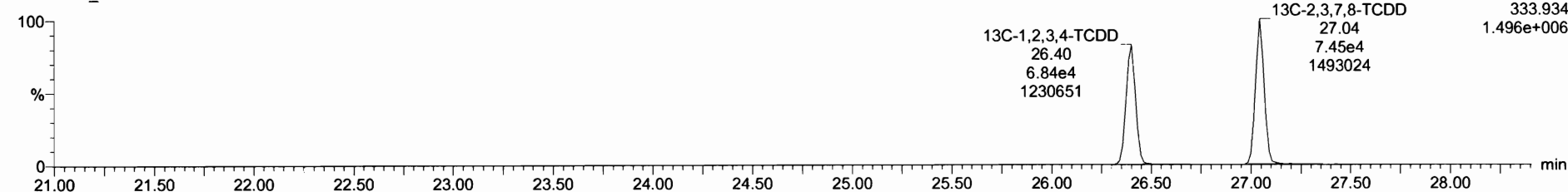


13C-2,3,7,8-TCDD

210408D1_7



210408D1_7



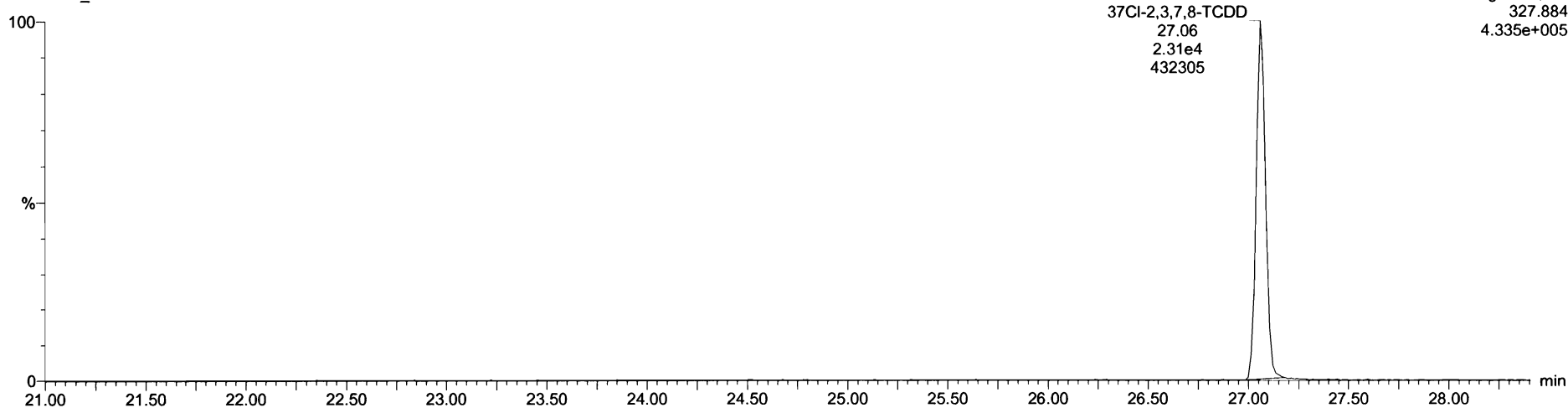
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

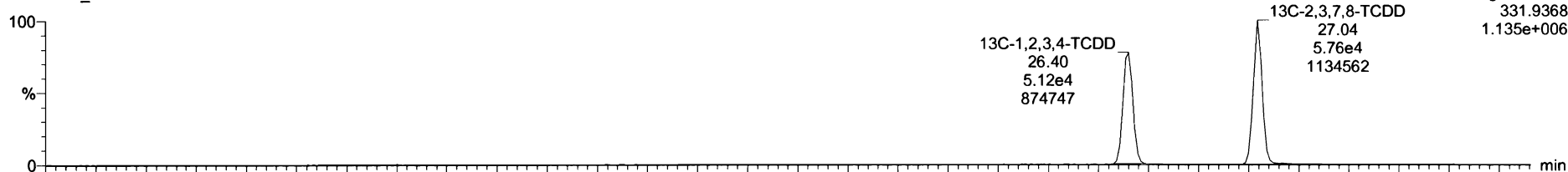
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210408D1_7

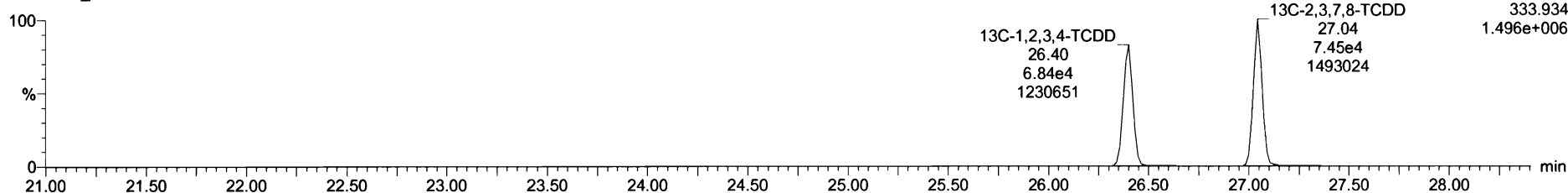


13C-1,2,3,4-TCDD

210408D1_7



210408D1_7



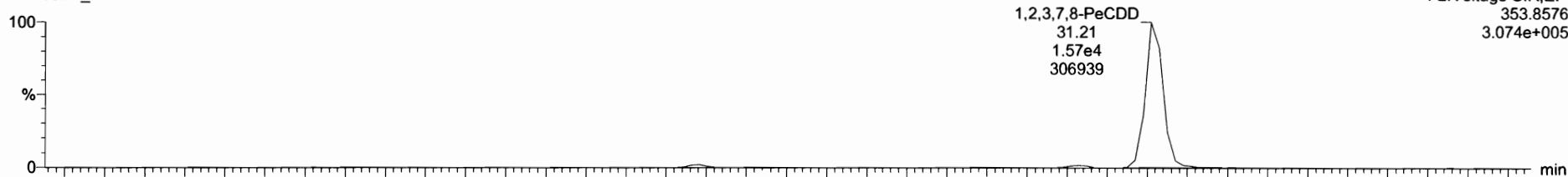
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

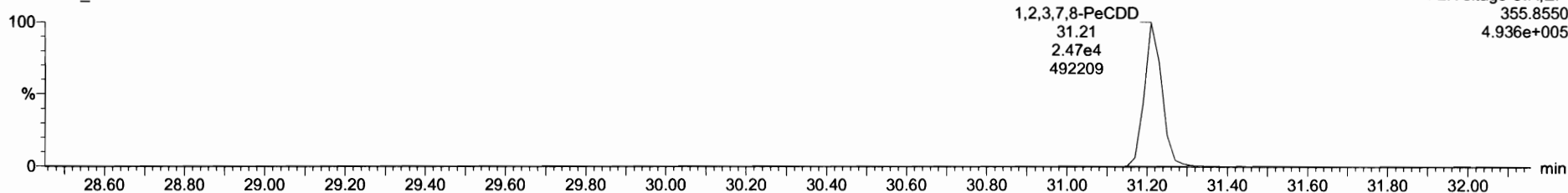
1,2,3,7,8-PeCDD

210408D1_7



F2:Voltage SIR,EI+
353.8576
3.074e+005

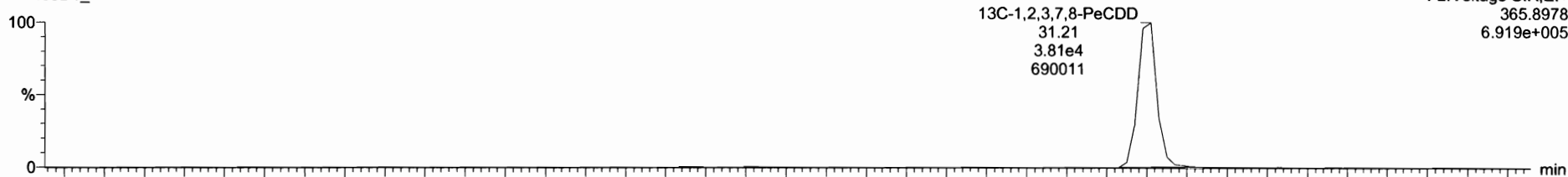
210408D1_7



F2:Voltage SIR,EI+
355.8550
4.936e+005

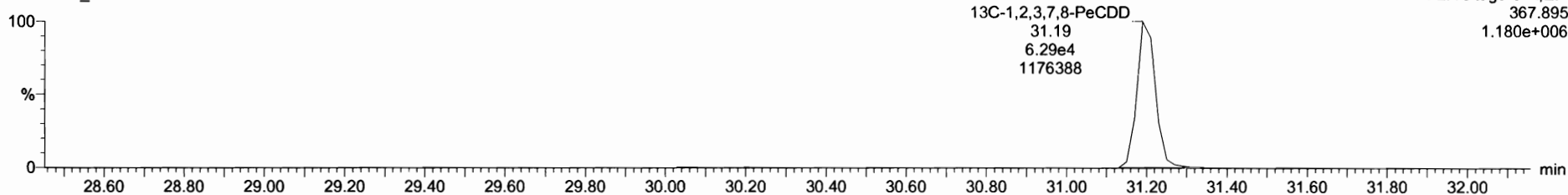
13C-1,2,3,7,8-PeCDD

210408D1_7



F2:Voltage SIR,EI+
365.8978
6.919e+005

210408D1_7



F2:Voltage SIR,EI+
367.895
1.180e+006

Dataset: Untitled

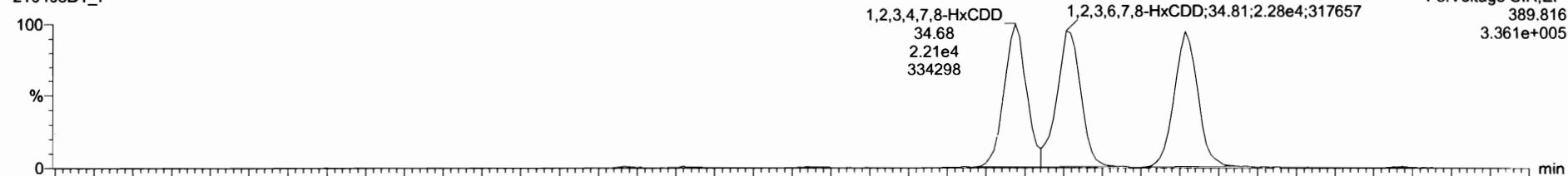
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

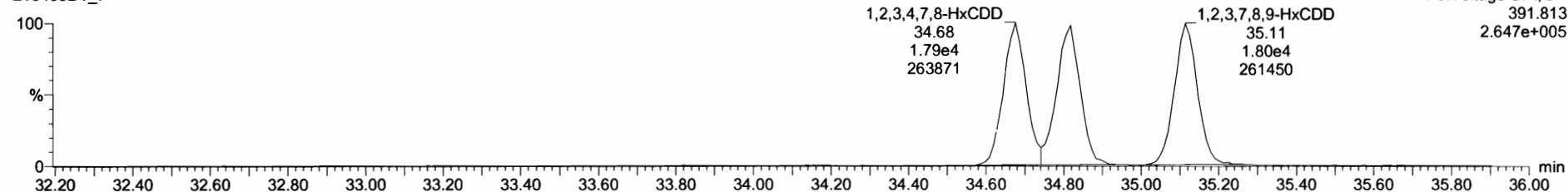
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1,2,3,4,7,8-HxCDD

210408D1_7

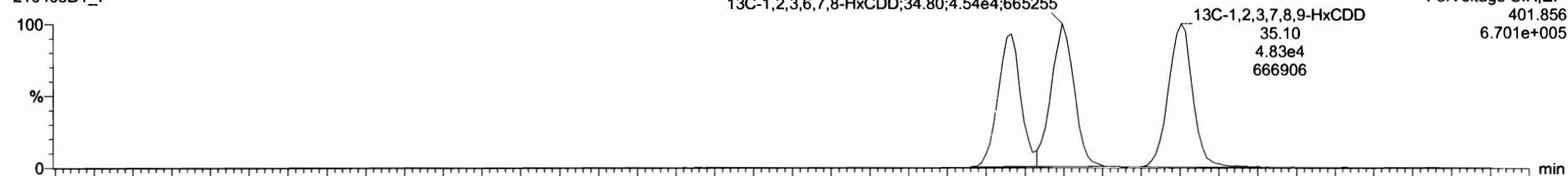


210408D1_7

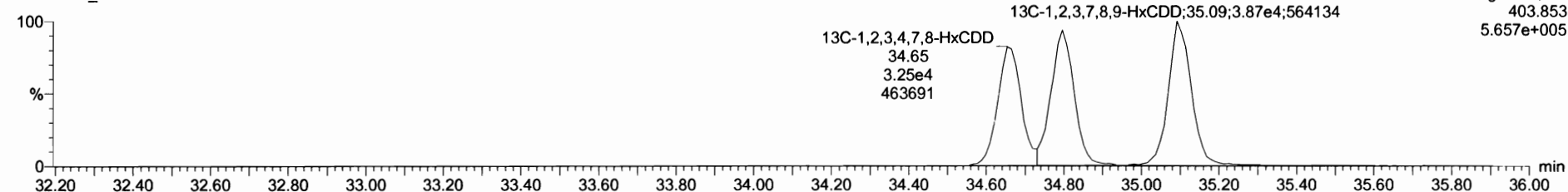


13C-1,2,3,4,7,8-HxCDD

210408D1_7



210408D1_7



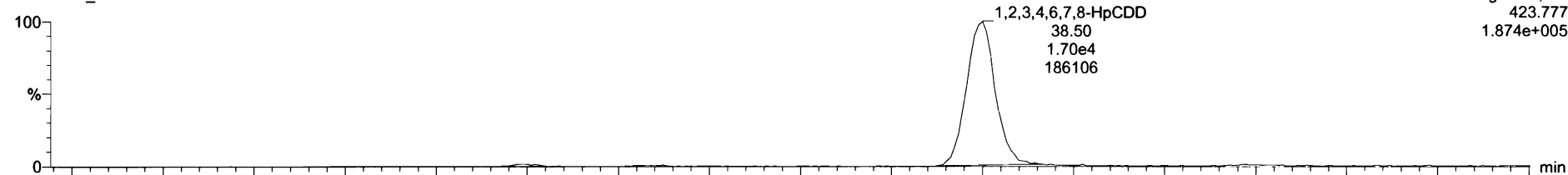
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

Name: 210408D1_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

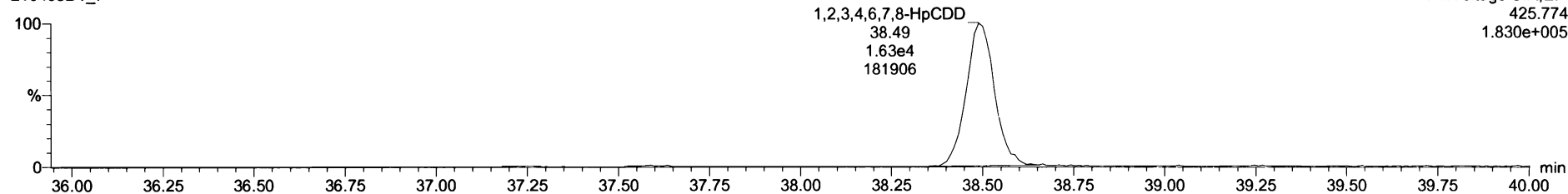
1,2,3,4,6,7,8-HpCDD

210408D1_7



F4:Voltage SIR,EI+
423.777
1.874e+005

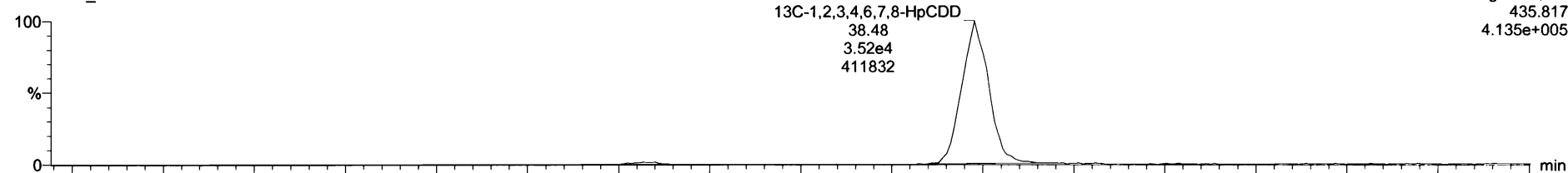
210408D1_7



F4:Voltage SIR,EI+
425.774
1.830e+005

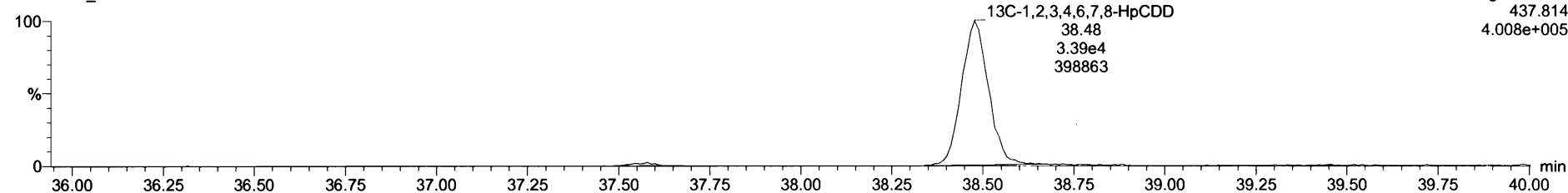
13C-1,2,3,4,6,7,8-HpCDD

210408D1_7



F4:Voltage SIR,EI+
435.817
4.135e+005

210408D1_7



F4:Voltage SIR,EI+
437.814
4.008e+005

Dataset: Untitled

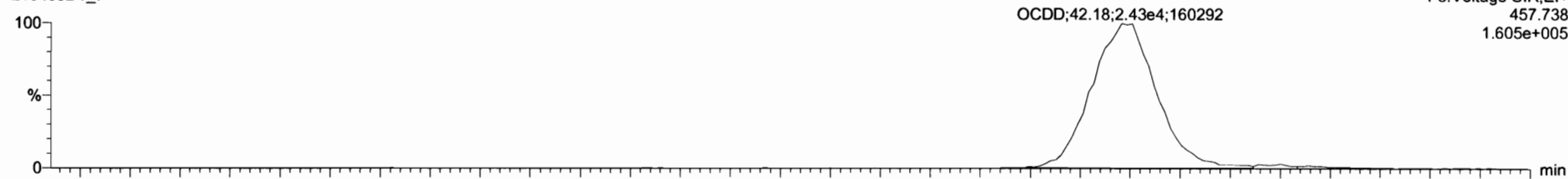
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

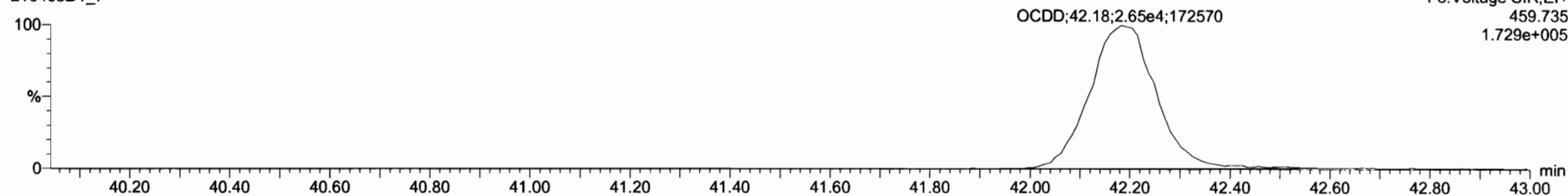
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OCDD

210408D1_7

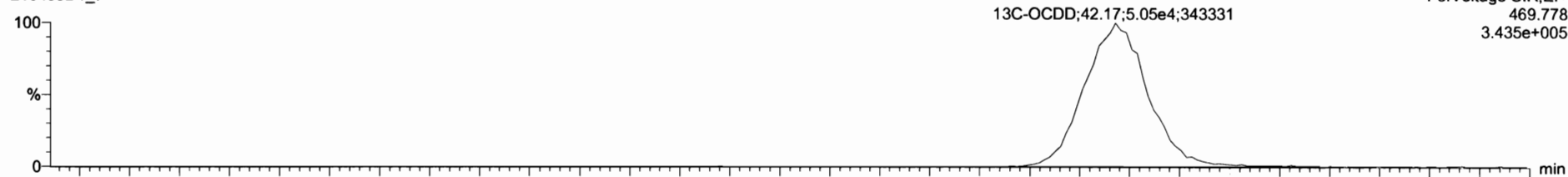


210408D1_7

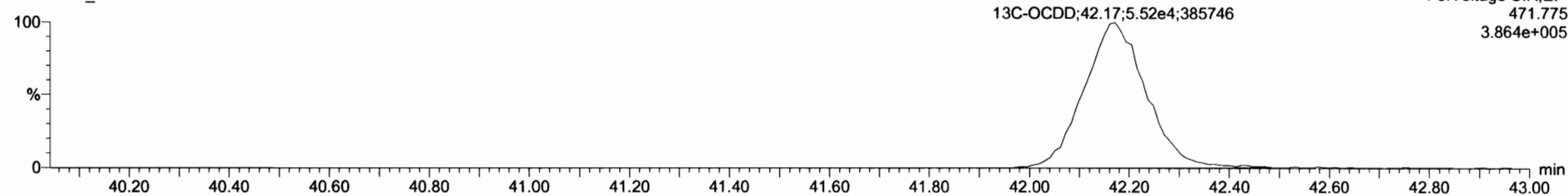


13C-OCDD

210408D1_7



210408D1_7



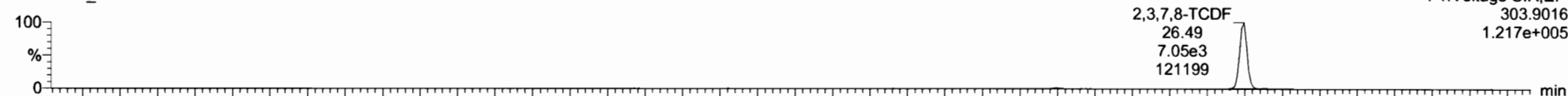
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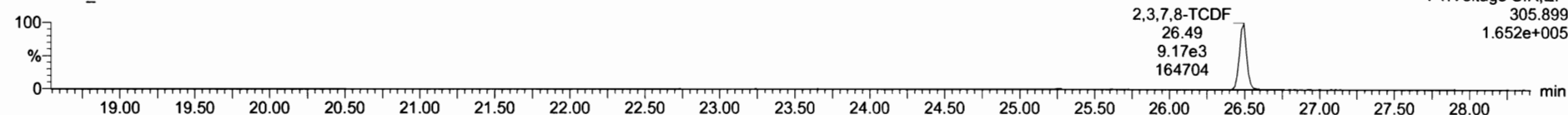
2,3,7,8-TCDF

210408D1_7



F1:Voltage SIR,EI+
303.9016
1.217e+005

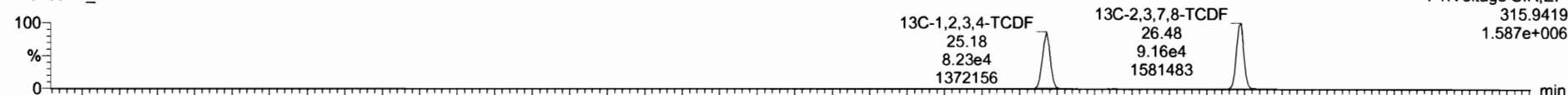
210408D1_7



F1:Voltage SIR,EI+
305.899
1.652e+005

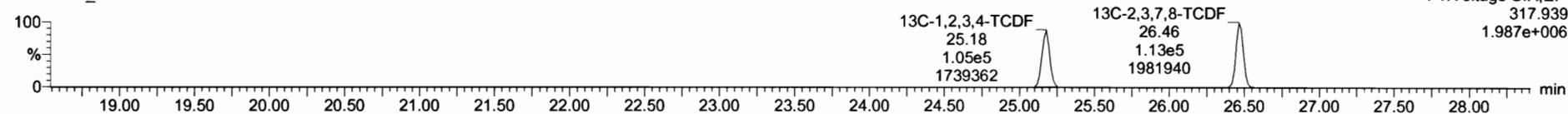
13C-2,3,7,8-TCDF

210408D1_7



F1:Voltage SIR,EI+
315.9419
1.587e+006

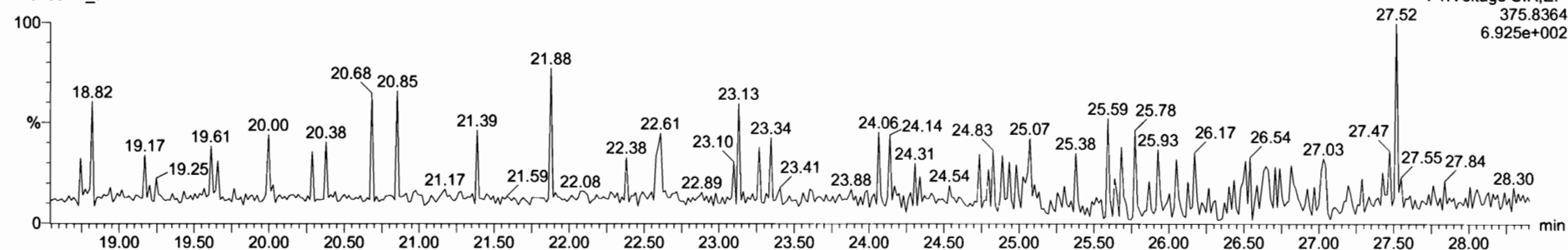
210408D1_7



F1:Voltage SIR,EI+
317.939
1.987e+006

DPE1

210408D1_7



F1:Voltage SIR,EI+
375.8364
6.925e+002

Dataset: Untitled

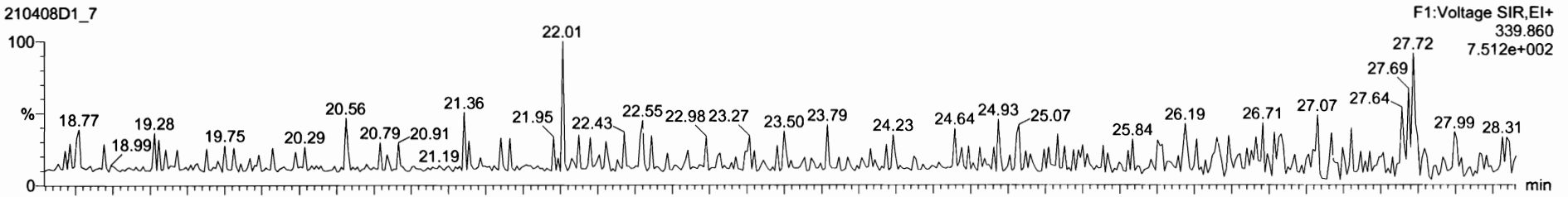
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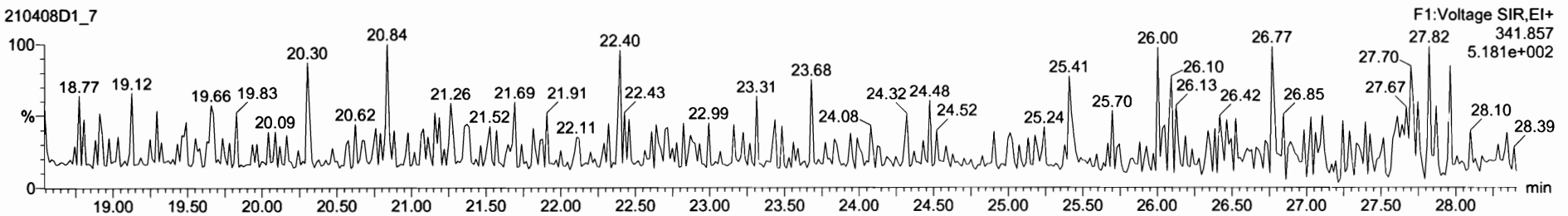
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1st Func. Penta-Furans

210408D1_7

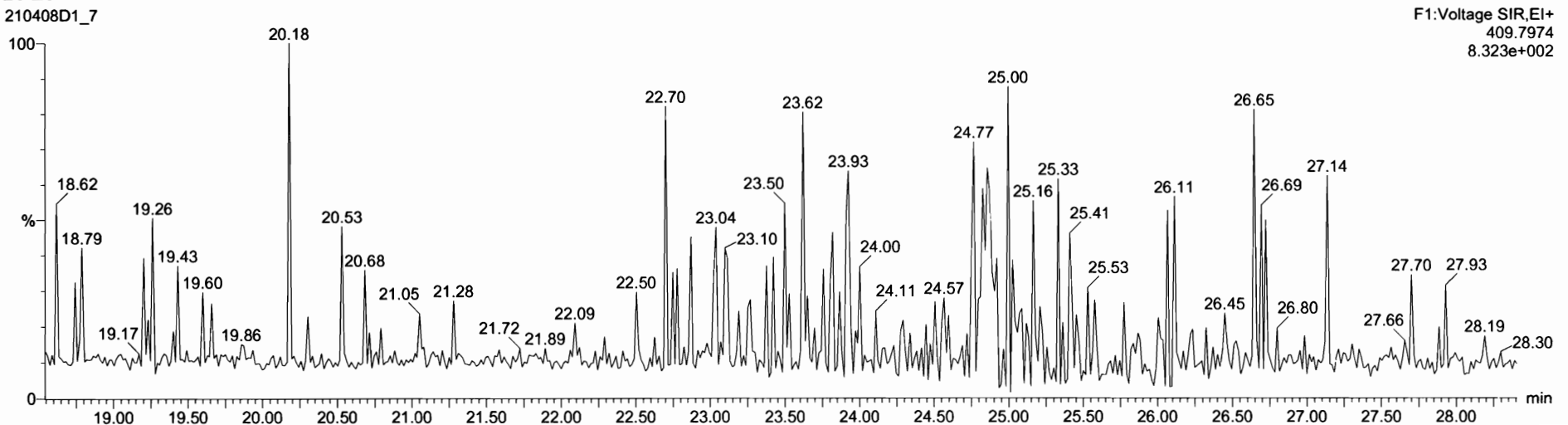


210408D1_7



DPE6

210408D1_7



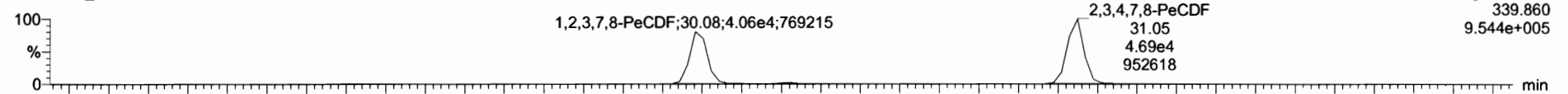
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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

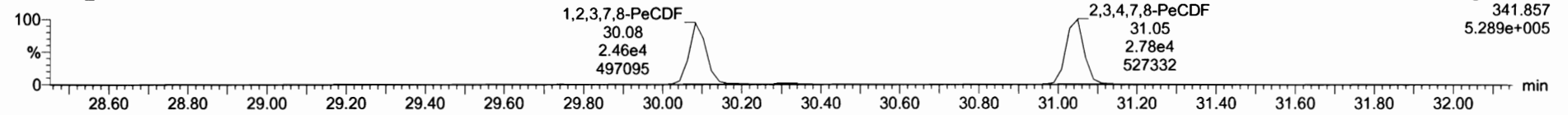
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1,2,3,7,8-PeCDF

210408D1_7

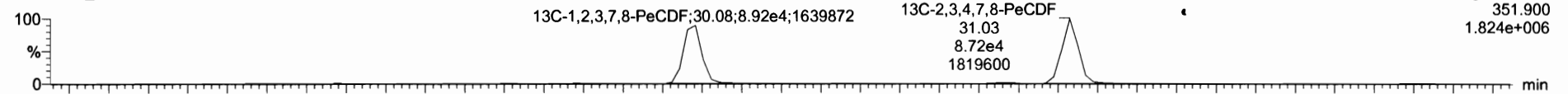


210408D1_7

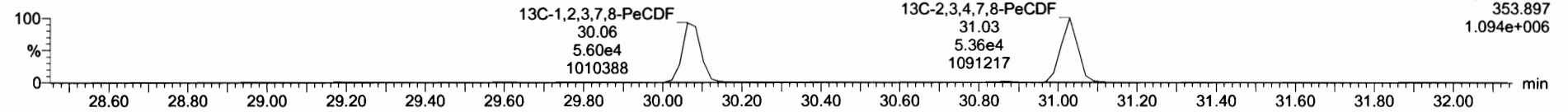


13C-1,2,3,7,8-PeCDF

210408D1_7

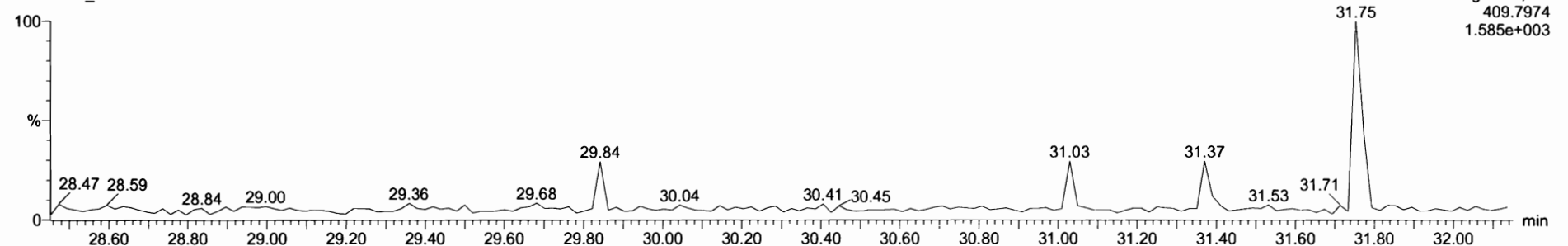


210408D1_7



DPE2

210408D1_7



Dataset: Untitled

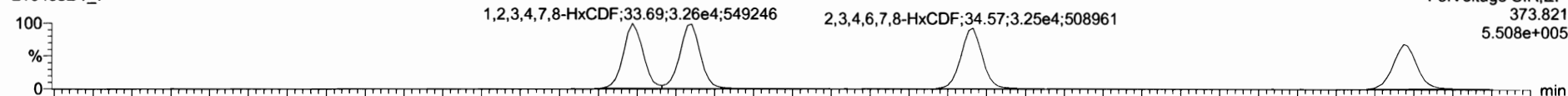
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Printed: Friday, April 09, 2021 08:06:47 Pacific Daylight Time

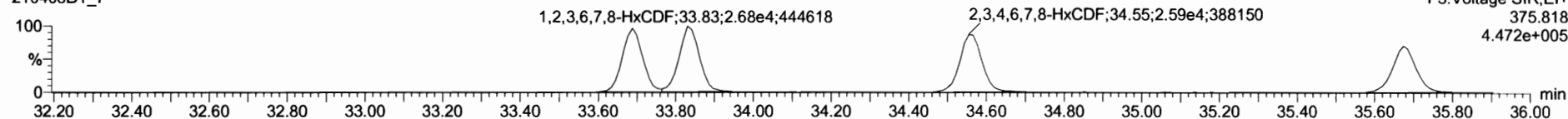
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1,2,3,4,7,8-HxCDF

210408D1_7

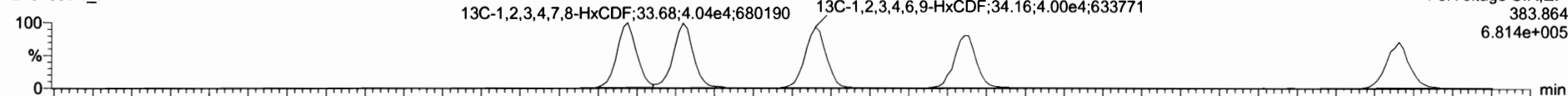


210408D1_7

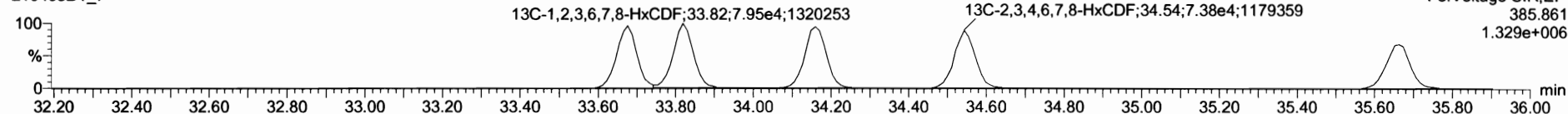


13C-1,2,3,4,7,8-HxCDF

210408D1_7

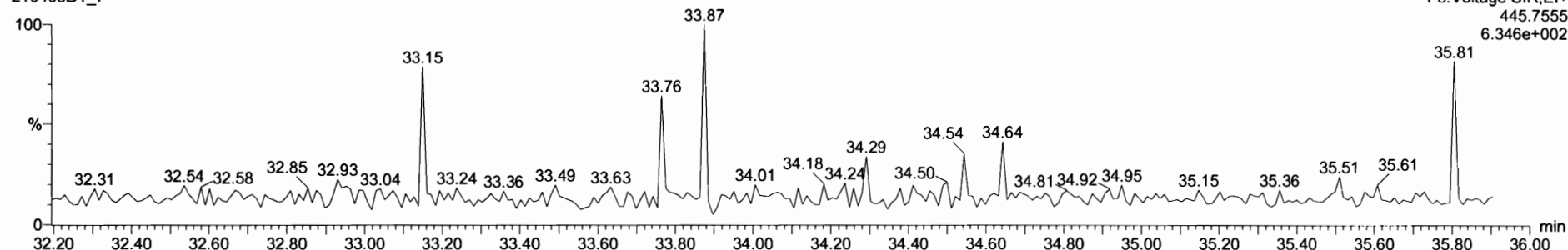


210408D1_7



DPE3

210408D1_7



Dataset: Untitled

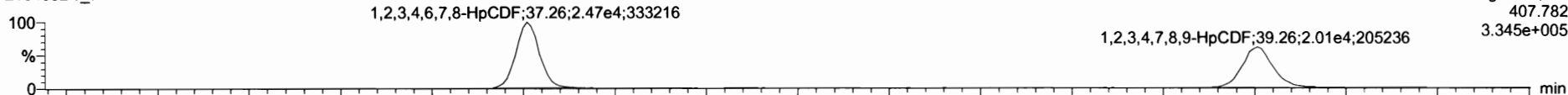
Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time

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Name: 210408D1_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

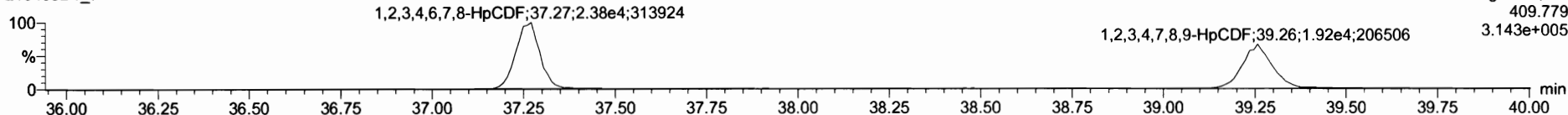
1,2,3,4,6,7,8-HpCDF

210408D1_7



F4:Voltage SIR,EI+
407.782
3.345e+005

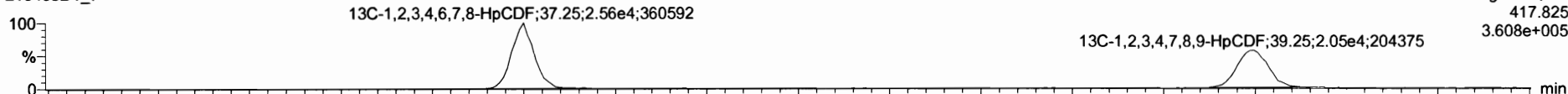
210408D1_7



F4:Voltage SIR,EI+
409.779
3.143e+005

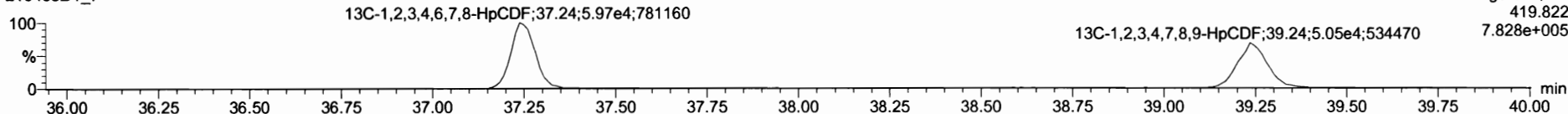
13C-1,2,3,4,6,7,8-HpCDF

210408D1_7



F4:Voltage SIR,EI+
417.825
3.608e+005

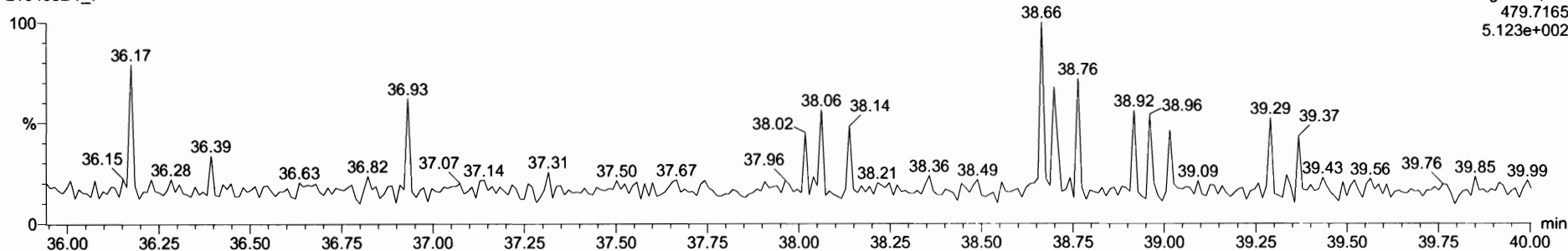
210408D1_7



F4:Voltage SIR,EI+
419.822
7.828e+005

DPE4

210408D1_7

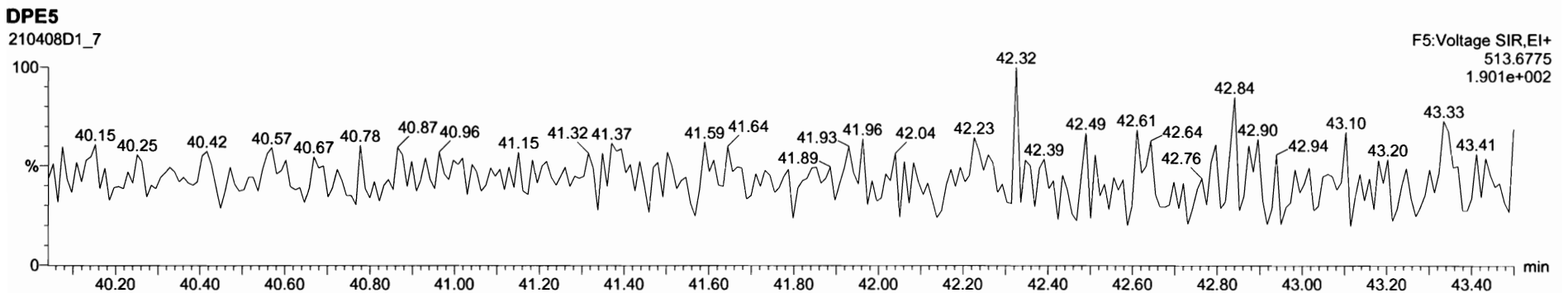
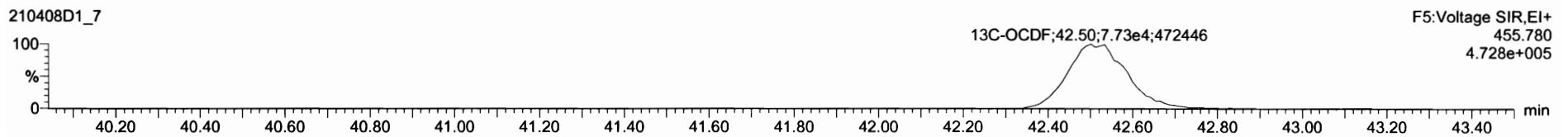
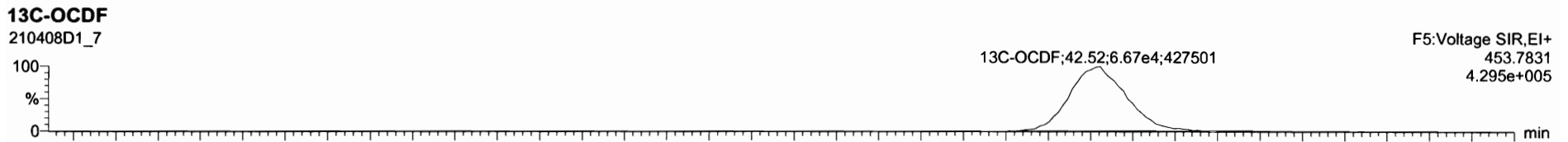
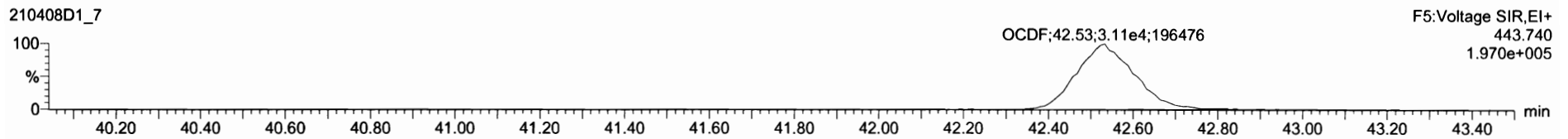
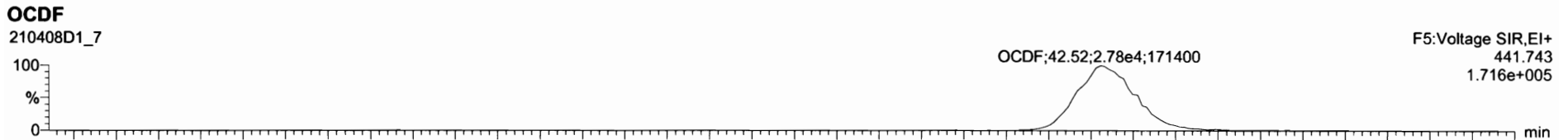


F4:Voltage SIR,EI+
479.7165
5.123e+002

Dataset: Untitled

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Name: 210408D1_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108



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Last Altered: Friday, April 09, 2021 08:06:00 Pacific Daylight Time
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Name: 210408D1_7, Date: 08-Apr-2021, Time: 13:21:14, ID: SS210408D1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

