



June 12, 2020

Vista Work Order No. 2001034

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

Dear Ms. Peterson,

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

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

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

Sincerely,

Martha Maier
Laboratory Director



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

Vista Work Order No. 2001034

Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

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

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
2001034-01	PDI-085SC-B-00-02-200508	08-May-20 13:45	12-May-20 09:50	Amber Glass, 120 mL
2001034-02	PDI-085SC-B-02-05-200508	08-May-20 13:45	12-May-20 09:50	Amber Glass, 120 mL
2001034-03	PDI-085SC-B-05-07-200508	08-May-20 13:45	12-May-20 09:50	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0150 Date Extracted: 20-May-2020 5:59		Lab Sample: B0E0150-BLK1 Date Analyzed: 08-Jun-20 14:02 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.138			IS 13C-2,3,7,8-TCDD	64.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.163			13C-1,2,3,7,8-PeCDD	72.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.128			13C-1,2,3,4,7,8-HxCDD	57.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.138			13C-1,2,3,6,7,8-HxCDD	58.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.156			13C-1,2,3,7,8,9-HxCDD	57.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.256		13C-1,2,3,4,6,7,8-HpCDD	50.5	23 - 140	
OCDD	2.53			J	13C-OCDD	39.7	17 - 157	
2,3,7,8-TCDF	ND	0.0908			13C-2,3,7,8-TCDF	57.2	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0500		13C-1,2,3,7,8-PeCDF	71.5	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0770		13C-2,3,4,7,8-PeCDF	72.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0775			13C-1,2,3,4,7,8-HxCDF	63.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0676			13C-1,2,3,6,7,8-HxCDF	67.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0736			13C-2,3,4,6,7,8-HxCDF	66.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.122			13C-1,2,3,7,8,9-HxCDF	63.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.106		13C-1,2,3,4,6,7,8-HpCDF	54.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.131		13C-1,2,3,4,7,8,9-HpCDF	55.7	26 - 138	
OCDF	ND		0.343		13C-OCDF	42.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	68.3	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000759			
TOTALS								
Total TCDD	ND	0.138						
Total PeCDD	ND	0.163						
Total HxCDD	ND	0.156						
Total HpCDD	ND		0.256					
Total TCDF	ND	0.0908						
Total PeCDF	ND		0.127					
Total HxCDF	ND	0.122						
Total HpCDF	ND		0.238					

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0150 Date Extracted: 20-May-2020 5:59		Lab Sample: B0E0150-BS1 Date Analyzed: 08-Jun-20 12:28 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	18.8	20.0	94.2	67 - 158	IS 13C-2,3,7,8-TCDD	31.7	20 - 175
1,2,3,7,8-PeCDD	99.8	100	99.8	70 - 142	13C-1,2,3,7,8-PeCDD	40.6	21 - 227
1,2,3,4,7,8-HxCDD	101	100	101	70 - 164	13C-1,2,3,4,7,8-HxCDD	44.1	21 - 193
1,2,3,6,7,8-HxCDD	103	100	103	76 - 134	13C-1,2,3,6,7,8-HxCDD	45.8	25 - 163
1,2,3,7,8,9-HxCDD	103	100	103	64 - 162	13C-1,2,3,7,8,9-HxCDD	56.1	21 - 193
1,2,3,4,6,7,8-HpCDD	107	100	107	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	57.3	26 - 166
OCDD	197	200	98.4	78 - 144	13C-OCDD	55.4	13 - 199
2,3,7,8-TCDF	19.6	20.0	97.8	75 - 158	13C-2,3,7,8-TCDF	28.7	22 - 152
1,2,3,7,8-PeCDF	102	100	102	80 - 134	13C-1,2,3,7,8-PeCDF	37.8	21 - 192
2,3,4,7,8-PeCDF	102	100	102	68 - 160	13C-2,3,4,7,8-PeCDF	36.6	13 - 328
1,2,3,4,7,8-HxCDF	105	100	105	72 - 134	13C-1,2,3,4,7,8-HxCDF	45.6	19 - 202
1,2,3,6,7,8-HxCDF	107	100	107	84 - 130	13C-1,2,3,6,7,8-HxCDF	49.7	21 - 159
2,3,4,6,7,8-HxCDF	102	100	102	70 - 156	13C-2,3,4,6,7,8-HxCDF	58.1	22 - 176
1,2,3,7,8,9-HxCDF	106	100	106	78 - 130	13C-1,2,3,7,8,9-HxCDF	48.6	17 - 205
1,2,3,4,6,7,8-HpCDF	107	100	107	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	61.1	21 - 158
1,2,3,4,7,8,9-HpCDF	108	100	108	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	52.8	20 - 186
OCDF	210	200	105	63 - 170	13C-OCDF	55.1	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	34.6	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-085SC-B-00-02-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001034-01 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 20.5 g	QC Batch: B0E0150 Date Extracted: 20-May-2020 5:59
Date Collected: 08-May-2020 13:45	% Solids: 49.0	Date Analyzed : 09-Jun-20 07:09 Column: ZB-5MS 10-Jun-20 21:46 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.805				IS 13C-2,3,7,8-TCDD	58.5	25 - 164	
1,2,3,7,8-PeCDD	2.65				13C-1,2,3,7,8-PeCDD	59.7	25 - 181	
1,2,3,4,7,8-HxCDD	9.41				13C-1,2,3,4,7,8-HxCDD	58.1	32 - 141	
1,2,3,6,7,8-HxCDD	53.1				13C-1,2,3,6,7,8-HxCDD	56.4	28 - 130	
1,2,3,7,8,9-HxCDD	24.1				13C-1,2,3,7,8,9-HxCDD	59.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	3030			D	13C-1,2,3,4,6,7,8-HpCDD	59.1	23 - 140	D
OCDD	9820			D, B	13C-OCDD	50.6	17 - 157	D
2,3,7,8-TCDF	7.37				13C-2,3,7,8-TCDF	53.8	24 - 169	
1,2,3,7,8-PeCDF	9.56				13C-1,2,3,7,8-PeCDF	63.3	24 - 185	
2,3,4,7,8-PeCDF	8.73				13C-2,3,4,7,8-PeCDF	61.0	21 - 178	
1,2,3,4,7,8-HxCDF	15.4				13C-1,2,3,4,7,8-HxCDF	62.2	26 - 152	
1,2,3,6,7,8-HxCDF	4.50				13C-1,2,3,6,7,8-HxCDF	59.0	26 - 123	
2,3,4,6,7,8-HxCDF	3.26				13C-2,3,4,6,7,8-HxCDF	61.0	28 - 136	
1,2,3,7,8,9-HxCDF	2.17			J	13C-1,2,3,7,8,9-HxCDF	59.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	107				13C-1,2,3,4,6,7,8-HpCDF	55.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.80				13C-1,2,3,4,7,8,9-HpCDF	57.5	26 - 138	
OCDF	252				13C-OCDF	45.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	64.5	35 - 197	

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

TEQMinWHO2005Dioxin 52.7

TOTALS								
Total TCDD	22.9		25.7					
Total PeCDD	85.6		97.5					
Total HxCDD	1230							
Total HpCDD	6840							
Total TCDF	62.5			P				
Total PeCDF	88.2		89.0	P				
Total HxCDF	103							
Total HpCDF	346							

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

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

Sample ID: PDI-085SC-B-02-05-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001034-02 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 17.8 g	QC Batch: B0E0150 Date Extracted: 20-May-2020 5:59
Date Collected: 08-May-2020 13:45	% Solids: 56.5	Date Analyzed : 09-Jun-20 07:55 Column: ZB-5MS 11-Jun-20 20:12 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.56				IS 13C-2,3,7,8-TCDD	66.3	25 - 164	
1,2,3,7,8-PeCDD	2.84				13C-1,2,3,7,8-PeCDD	71.2	25 - 181	
1,2,3,4,7,8-HxCDD	9.08				13C-1,2,3,4,7,8-HxCDD	57.4	32 - 141	
1,2,3,6,7,8-HxCDD	78.3				13C-1,2,3,6,7,8-HxCDD	56.9	28 - 130	
1,2,3,7,8,9-HxCDD	32.6				13C-1,2,3,7,8,9-HxCDD	56.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	4810			D	13C-1,2,3,4,6,7,8-HpCDD	43.0	23 - 140	D
OCDD	22800			D, B	13C-OCDD	27.1	17 - 157	D
2,3,7,8-TCDF	16.4				13C-2,3,7,8-TCDF	61.6	24 - 169	
1,2,3,7,8-PeCDF	22.1				13C-1,2,3,7,8-PeCDF	71.4	24 - 185	
2,3,4,7,8-PeCDF	19.1				13C-2,3,4,7,8-PeCDF	67.5	21 - 178	
1,2,3,4,7,8-HxCDF	45.1				13C-1,2,3,4,7,8-HxCDF	63.6	26 - 152	
1,2,3,6,7,8-HxCDF	13.0				13C-1,2,3,6,7,8-HxCDF	62.1	26 - 123	
2,3,4,6,7,8-HxCDF	8.57				13C-2,3,4,6,7,8-HxCDF	60.5	28 - 136	
1,2,3,7,8,9-HxCDF	4.45				13C-1,2,3,7,8,9-HxCDF	59.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	156				13C-1,2,3,4,6,7,8-HpCDF	56.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	10.6				13C-1,2,3,4,7,8,9-HpCDF	58.6	26 - 138	
OCDF	388				13C-OCDF	46.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	77.1	35 - 197	

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

TEQMinWHO2005Dioxin 88.3

TOTALS								
Total TCDD	33.3							
Total PeCDD	86.7		111					
Total HxCDD	1620							
Total HpCDD	10300							
Total TCDF	136			P				
Total PeCDF	185		231	P				
Total HxCDF	234							
Total HpCDF	511							

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

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

Sample ID: PDI-085SC-B-05-07-200508 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2001034-03 Date Received: 12-May-2020 9:50
Project: Gasco PDI	Sample Size: 17.0 g	QC Batch: B0E0150 Date Extracted: 20-May-2020 5:59
Date Collected: 08-May-2020 13:45	% Solids: 59.1	Date Analyzed : 09-Jun-20 08:41 Column: ZB-5MS 10-Jun-20 22:49 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.513		IS 13C-2,3,7,8-TCDD	62.8	25 - 164	
1,2,3,7,8-PeCDD	0.953			J	13C-1,2,3,7,8-PeCDD	64.3	25 - 181	
1,2,3,4,7,8-HxCDD	1.36			J	13C-1,2,3,4,7,8-HxCDD	53.2	32 - 141	
1,2,3,6,7,8-HxCDD	22.6				13C-1,2,3,6,7,8-HxCDD	49.9	28 - 130	
1,2,3,7,8,9-HxCDD	7.68				13C-1,2,3,7,8,9-HxCDD	48.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	2240				13C-1,2,3,4,6,7,8-HpCDD	50.2	23 - 140	
OCDD	9670			D, B	13C-OCDD	40.8	17 - 157	D
2,3,7,8-TCDF	7.87				13C-2,3,7,8-TCDF	59.8	24 - 169	
1,2,3,7,8-PeCDF	9.02				13C-1,2,3,7,8-PeCDF	61.4	24 - 185	
2,3,4,7,8-PeCDF	10.5				13C-2,3,4,7,8-PeCDF	60.6	21 - 178	
1,2,3,4,7,8-HxCDF	14.9				13C-1,2,3,4,7,8-HxCDF	57.1	26 - 152	
1,2,3,6,7,8-HxCDF	4.95				13C-1,2,3,6,7,8-HxCDF	54.3	26 - 123	
2,3,4,6,7,8-HxCDF	4.55				13C-2,3,4,6,7,8-HxCDF	52.0	28 - 136	
1,2,3,7,8,9-HxCDF	1.52			J	13C-1,2,3,7,8,9-HxCDF	48.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	66.3				13C-1,2,3,4,6,7,8-HpCDF	47.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.24				13C-1,2,3,4,7,8,9-HpCDF	44.4	26 - 138	
OCDF	156				13C-OCDF	36.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	69.7	35 - 197	

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

TEQMinWHO2005Dioxin	37.0
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TOTALS								
Total TCDD	10.4		11.1					
Total PeCDD	17.3		19.2					
Total HxCDD	660							
Total HpCDD	4980							
Total TCDF	76.2			P				
Total PeCDF	100		136	P				
Total HxCDF	111							
Total HpCDF	220							

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

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

DATA QUALIFIERS & ABBREVIATIONS

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

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

Vista Analytical Laboratory Certifications

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

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

NELAP Accredited Test Methods

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

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

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

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

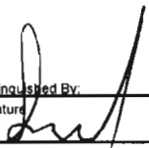
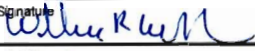
POC: * Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: Gasco PDI
Client: NW Natural

2001034
3.7°C

COC ID: VISTA-20200508-153034
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	PDI-085SC-B-00-02-200508	N	SE	05/08/2020	13:45	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	PDI-085SC-B-02-05-200508	N	SE	05/08/2020	13:45	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	PDI-085SC-B-05-07-200508	N	SE	05/08/2020	13:45	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: Sasha Norwood	Print Name: William R Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company: JAL	Company:	Company:	Company:	Company:
Date/Time: 5/11/20 08:30	Date/Time: 5/12/20 09:50	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

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2001034 TAT Std

Samples Arrival:	Date/Time <u>5/12/20 09:50</u>		Initials: <u>WRW</u>		Location: <u>WR-2</u>		
					Shelf/Rack: <u>NA</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"/> Dry Ice		<input type="checkbox"/> None
Temp °C: <u>3.7</u>	<input type="checkbox"/> (uncorrected)		Probe used: Y / <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-3</u>	
Temp °C: <u>3.7</u>	<input type="checkbox"/> (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>2 of 3</u> Trk # <u>7704 3701 0244</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 type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Holding Time Acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Logged In:	Date/Time <u>05/12/20 1250</u>		Initials: <u>KS</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>G1-2</u>
COC Anomaly/Sample Acceptance Form completed?			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2001034

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	Sample BaseMatrix	Comments
2001034-01	A PDI-085SC-B-00-02-200508	<input checked="" type="checkbox"/>	08-May-20 13:45	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2001034-02	A PDI-085SC-B-02-05-200508	<input checked="" type="checkbox"/>	08-May-20 13:45	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid
2001034-03	A PDI-085SC-B-05-07-200508	<input checked="" type="checkbox"/>	08-May-20 13:45	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid

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

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

Verified by/Date: KS 05/13/20

EXTRACTION INFORMATION

Process Sheet

Workorder: **2001034**

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

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

TAT: 29

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

Prep Batch: BOE0150

Prep Data Entered: AO 05/25/20
Date and Initials

Initial Sequence: SOF0021

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2001034-01	<input checked="" type="checkbox"/>	PDI-085SC-B-00-02-200508	12-May-20 09:50	WR-2 G-2	
2001034-02	<input checked="" type="checkbox"/>	PDI-085SC-B-02-05-200508	12-May-20 09:50	WR-2 G-2	
2001034-03	<input checked="" type="checkbox"/>	PDI-085SC-B-05-07-200508	12-May-20 09:50	WR-2 G-2	

WO Comments: **Dioxin - 10g (dry weight)** 20 05/20/20
One dup required per batch of 20 samples

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

Prep Check Out: AZ 05/20/20
Prep Check In: AZ 05/20/20

Prep Reconciled Initials/Date: CHT 05/15/20
Spike Reconciled Initials/Date: AZ 05/20/20
VialBoxID: SM-60

PREPARATION BENCH SHEET

Matrix: Solid

B0E0150

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 20-May-20 ~~05:59~~
14.03

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0E0150-BLK1	NA	(10.00)	DF 20 05/20/20	EM 00 05/24/20	AZ 05/25/20	AZ 05/25/20	AZ 05/25/20	AZ 05/25/20	00 AZ 05/25/20
<input type="checkbox"/>	B0E0150-BS1	NA	(10.00)			J	T		T	T
<input type="checkbox"/>	B0E0150-DUP1 2001037-11	16.49	16.67			NA				
<input type="checkbox"/>	2001034-01	(A)(B) 20.42	20.45			AZ 05/25/20	orange			
<input type="checkbox"/>	2001034-02	(D)(C) 17.61	17.75			T	T			
<input type="checkbox"/>	2001034-03	16.91	16.96			J	T			
<input type="checkbox"/>	2001037-03	16.77	17.00			NA				
<input type="checkbox"/>	2001037-04	15.63	15.80			T	J			
<input type="checkbox"/>	2001037-05	14.07	14.45							
<input type="checkbox"/>	2001037-06	16.49	16.66							
<input type="checkbox"/>	2001037-07	15.96	15.98							
<input type="checkbox"/>	2001037-08	15.52	15.69							
<input type="checkbox"/>	2001037-09	15.54	15.68							
<input type="checkbox"/>	2001037-10	16.45	16.59				orange			
<input type="checkbox"/>	2001037-11	16.49	16.57							

IS Name <u>V2</u>	NS Name <u>V6</u>	CRS Name <u>V1</u>	RS Name <u>V1</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>AZ 05/20/20</u>
PCDD/F <u>19L2301, 10mL</u>	PCDD/F <u>18F913, 10mL</u>	PCDD/F <u>19I1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time <u>1444 05/20/20</u>	SOLV: <u>Tol</u>	Check In: Chemist/Date: <u>AZ 05/20/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>0747 05/21/20</u>	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>20mL</u>	<u>C.4</u>	

Comments:

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

PREPARATION BENCH SHEET

Matrix: Solid

B0E0150

Chemist: DF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 20-May-20 05:59

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	2001037-12	15.77	15.77	DP 20 05/20/20	EM 00 05/24/20	NA	0.2g-2e AZ 05/25/20	AZ 05/25/20	AZ 05/25/20	AO AZ 05/25/20
<input type="checkbox"/>	2001037-13	15.88	15.94	↓	↓	↓	↓ ↓	↓	↓	↓
<input type="checkbox"/>	2001037-14	14.84	14.97	↓	↓	↓	↓ ↓	↓	↓	↓

(A) LB rinsed during AP w/ Decm to remove part AZ 05/25/20

(B) Crystallized ^{*} while rotovapping AZ 05/24/20

* AZ 05/25/20

(C) Crystallized + FV AZ 05/25/20

(D) 10mL transferred to vial due to Crystallization AO 05/25/20

IS Name <u>PCDD/F 19L2301, 10mL</u>	NS Name <u>PCDD/F 19F1913, 10mL</u>	CRS Name <u>PCDD/F 19I11002, 10mL</u>	RS Name <u>PCDD/F 19I11003, 10mL</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>AZ 05/20/20</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time <u>1444 05/20/20</u>	SOLV: <u>TOL</u>	Check In: Chemist/Date: <u>AZ 05/20/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>0747 05/21/20</u>	Other <u>Na</u>	Balance ID: <u>HRMS-9</u>
PAH	PAH	PAH	PAH		Final Volume(s) <u>20mL</u>	
					<u>CM</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

Percent Moisture/ Percent Solids

D2216-90

BATCH ID BOE0116

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

Inst H11MS-9

Date/Time IN: 05/11/20 0945 Date/Time OUT: 05/18/20 0957

* CHT 05/18/20

Particle Size	SampID	SampType	Initial and Date:		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*
			Pan Tare Wt. (gms)	Date										
				<u>CHT 05/15/20</u>		<u>CHT 05/18/20</u>								
	2001033-01	Sample	<u>1.30</u>		<u>5.80</u>	<u>3.11</u>			<u>Mud</u>					<input checked="" type="checkbox"/>
	2001033-02	Sample	<u>1.29</u>		<u>5.82</u>	<u>3.68</u>								<input checked="" type="checkbox"/>
	2001033-03	Sample	<u>1.30</u>		<u>6.47</u>	<u>4.18</u>								<input checked="" type="checkbox"/>
	2001033-04	Sample	<u>1.31</u>		<u>6.12</u>	<u>3.84</u>	<u>3.54*</u>							<input checked="" type="checkbox"/>
	2001033-05	Sample	<u>1.29</u>		<u>4.84</u>	<u>3.09</u>								<input checked="" type="checkbox"/>
	2001033-06	Sample	<u>1.28</u>		<u>6.10</u>	<u>3.56</u>								<input checked="" type="checkbox"/>
	2001034-01	Sample	<u>1.31</u>		<u>6.15</u>	<u>3.68</u>								<input checked="" type="checkbox"/>
	2001034-02	Sample	<u>1.29</u>		<u>5.80</u>	<u>3.84</u>								<input checked="" type="checkbox"/>
	2001034-03	Sample	<u>1.30</u>		<u>6.17</u>	<u>4.18</u>								<input checked="" type="checkbox"/>

*Sample homogenized in sample container unless otherwise noted.

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2001034-01	20.45 ✓	48.96694	10.0137	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001034-02	17.75 ✓	56.54102	10.0360	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001034-03	16.96 ✓	59.13757	10.0297	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-03	17 ✓	59.63719	10.1383	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-04	15.8 ✓	63.9785	10.1086	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-05	14.45 ✓	71.07844	10.2708	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-06	16.66 ✓	60.6357	10.1019	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-07	15.98 ✓	62.64775	10.0111	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-08	15.69 ✓	64.44954	10.1121	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-09	15.68 ✓	64.35407	10.0907	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-10	16.59 ✓	60.80402	10.0874	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-11	16.57 ✓	60.63651	10.0475	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-12	15.77 ✓	63.41463	10.0005	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-13	15.94 ✓	62.96296	10.0363	20	20-May-20 05:59	AZK			Sediment	1613 Full List
2001037-14	14.97 ✓	67.14542	10.0517	20	20-May-20 05:59	AZK			Sediment	1613 Full List
B0E0150-BLK1	10			20	20-May-20 05:59	AZK				QC
B0E0150-BS1	10			20	20-May-20 05:59	AZK	18F1913	10		QC
B0E0150-DUP1	16.67 ✓			20	20-May-20 05:59	AZK				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 05/25/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200608R1\200608R1-4.qld

Last Altered: Tuesday, June 09, 2020 4:38:18 PM Pacific Daylight Time

Printed: Tuesday, June 09, 2020 4:59:31 PM Pacific Daylight Time

dy 06-09-2020

07/06/2020

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

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

Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.888	10.000	26.471		1.001				0.138	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.000	31.442		1.001				0.163	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.000	34.814		1.000				0.128	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.000	34.911		1.000				0.138	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.000	35.199		1.000				0.156	
6	6 1,2,3,4,6,7,8-HpCDD	2.47e2	0.85	YES	0.864	10.000	38.725	38.76	1.000	1.001	0.28477		0.113	0.256
7	7 OCDD	1.72e3	0.82	NO	0.914	10.000	41.695	41.73	1.000	1.001	2.5291		0.407	2.53
8	8 2,3,7,8-TCDF			NO	0.751	10.000	25.582		1.001				0.0908	
9	9 1,2,3,7,8-PeCDF	1.75e2	0.87	YES	0.893	10.000	30.160	30.18	1.001	1.002	0.065446		0.0383	0.0500
10	10 2,3,4,7,8-PeCDF	2.65e2	0.95	YES	0.935	10.000	31.146	31.13	1.001	1.000	0.085928		0.0343	0.0770
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.000	33.920		1.000				0.0775	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.000	34.058		1.000				0.0676	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.000	34.669		1.001				0.0736	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.000	35.550		1.000				0.122	
15	15 1,2,3,4,6,7,8-HpCDF	1.27e2	0.83	YES	0.873	10.000	37.344	37.35	1.001	1.001	0.11967		0.0749	0.106
16	16 1,2,3,4,7,8,9-HpCDF	1.23e2	0.85	YES	1.01	10.000	39.267	39.29	1.000	1.000	0.14545		0.0830	0.131
17	17 OCDF	3.04e2	0.64	YES	0.806	10.000	41.887	41.91	1.000	1.000	0.41260		0.284	0.343
18	18 13C-2,3,7,8-TCDD	4.79e5	0.75	NO	1.16	10.000	26.461	26.44	1.026	1.026	129.90	64.9	0.282	
19	19 13C-1,2,3,7,8-PeCDD	3.91e5	0.65	NO	0.849	10.000	31.637	31.42	1.227	1.219	144.40	72.2	0.423	
20	20 13C-1,2,3,4,7,8-HxCDD	2.58e5	1.29	NO	0.779	10.000	34.809	34.80	1.014	1.014	114.94	57.5	0.559	
21	21 13C-1,2,3,6,7,8-HxCDD	3.45e5	1.27	NO	1.02	10.000	34.922	34.91	1.017	1.017	117.60	58.8	0.428	
22	22 13C-1,2,3,7,8,9-HxCDD	2.99e5	1.29	NO	0.903	10.000	35.193	35.19	1.025	1.025	115.06	57.5	0.483	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.01e5	1.04	NO	0.689	10.000	38.715	38.71	1.128	1.128	101.08	50.5	0.374	
24	24 13C-OCDD	2.98e5	0.89	NO	0.652	10.000	41.736	41.69	1.216	1.215	158.75	39.7	0.443	
25	25 13C-2,3,7,8-TCDF	6.06e5	0.76	NO	1.06	10.000	25.504	25.56	0.989	0.991	114.30	57.2	0.475	
26	26 13C-1,2,3,7,8-PeCDF	6.00e5	1.63	NO	0.838	10.000	30.023	30.14	1.165	1.169	142.97	71.5	0.617	
27	27 13C-2,3,4,7,8-PeCDF	5.91e5	1.64	NO	0.817	10.000	30.975	31.11	1.202	1.207	144.59	72.3	0.633	
28	28 13C-1,2,3,4,7,8-HxCDF	3.67e5	0.50	NO	1.01	10.000	33.941	33.92	0.989	0.988	126.50	63.3	0.644	
29	29 13C-1,2,3,6,7,8-HxCDF	4.56e5	0.50	NO	1.17	10.000	34.064	34.05	0.992	0.992	135.64	67.8	0.556	
30	30 13C-2,3,4,6,7,8-HxCDF	3.90e5	0.50	NO	1.02	10.000	34.637	34.63	1.009	1.009	132.49	66.2	0.635	

Dataset: U:\VG12.PRO\Results\200608R1\200608R1-4.qld

Last Altered: Tuesday, June 09, 2020 4:38:18 PM Pacific Daylight Time

Printed: Tuesday, June 09, 2020 4:59:31 PM Pacific Daylight Time

Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	3.12e5	0.51	NO	0.860	10.000	35.537	35.55	1.035	1.036	126.11	63.1	0.754	
32	13C-1,2,3,4,6,7,8-HpCDF	2.44e5	0.42	NO	0.774	10.000	37.284	37.31	1.086	1.087	109.14	54.6	0.561	
33	13C-1,2,3,4,7,8,9-HpCDF	1.67e5	0.42	NO	0.521	10.000	39.312	39.27	1.145	1.144	111.40	55.7	0.833	
34	13C-OCDF	3.66e5	0.89	NO	0.746	10.000	41.907	41.89	1.221	1.220	170.06	42.5	0.437	
35	37Cl-2,3,7,8-TCDD	1.81e5			1.04	10.000	26.492	26.47	1.028	1.027	54.608	68.3	0.0767	
36	13C-1,2,3,4-TCDD	6.38e5	0.79	NO	1.00	10.000	25.890	25.78	1.000	1.000	200.00	100	0.326	
37	13C-1,2,3,4-TCDF	1.00e6	0.78	NO	1.00	10.000	24.360	24.10	1.000	1.000	200.00	100	0.503	
38	13C-1,2,3,4,6,9-HxCDF	5.77e5	0.51	NO	1.00	10.000	34.420	34.33	1.000	1.000	200.00	100	0.648	
39	Total Tetra-Dioxins				0.888	10.000	24.620		0.000				0.0870	
40	Total Penta-Dioxins				0.908	10.000	29.960		0.000				0.0864	
41	Total Hexa-Dioxins				0.892	10.000	33.635		0.000				0.0880	
42	Total Hepta-Dioxins				0.864	10.000	37.640		0.000		0.00000		0.113	0.256
43	Total Tetra-Furans				0.751	10.000	23.610		0.000				0.0319	
44	1st Func. Penta-Furans				0.893	10.000	27.580		0.000				0.0192	
45	Total Penta-Furans				0.893	10.000	29.275		0.000		0.00000		0.0356	0.127
46	Total Hexa-Furans				0.934	10.000	33.555		0.000				0.0402	
47	Total Hepta-Furans				0.873	10.000	37.835		0.000		0.00000		0.0836	0.238

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200608R1\200608R1-4.qld

Last Altered: Tuesday, June 09, 2020 4:38:18 PM Pacific Daylight Time

Printed: Tuesday, June 09, 2020 4:59:31 PM Pacific Daylight Time

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

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

Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDD	38.76	2.821e3	2.688e3	1.133e2	1.337e2	0.85	YES	2.470e2	0.00000	0.25600	0.113

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200608R1\200608R1-4.qld

Last Altered: Tuesday, June 09, 2020 4:38:18 PM Pacific Daylight Time

Printed: Tuesday, June 09, 2020 4:59:31 PM Pacific Daylight Time

Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDF	30.18	1.952e3	2.229e3	8.164e1	9.347e1	0.87	YES	1.751e2	0.00000	0.050000	0.0353
2	2,3,4,7,8-PeCDF	31.13	1.750e3	3.038e3	1.290e2	1.359e2	0.95	YES	2.649e2	0.00000	0.077000	0.0343

Hexa-Furans

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

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.35	9.430e2	1.466e3	5.770e1	6.966e1	0.83	YES	1.274e2	0.00000	0.10600	0.0749
2	1,2,3,4,7,8,9-HpCDF	39.29	1.148e3	9.620e2	5.677e1	6.647e1	0.85	YES	1.232e2	0.00000	0.13100	0.0830

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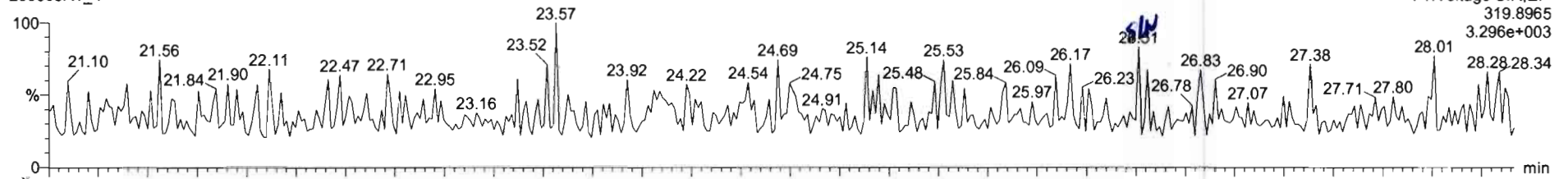
Last Altered: Tuesday, June 09, 2020 07:22:53 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 07:23:34 Pacific Daylight Time

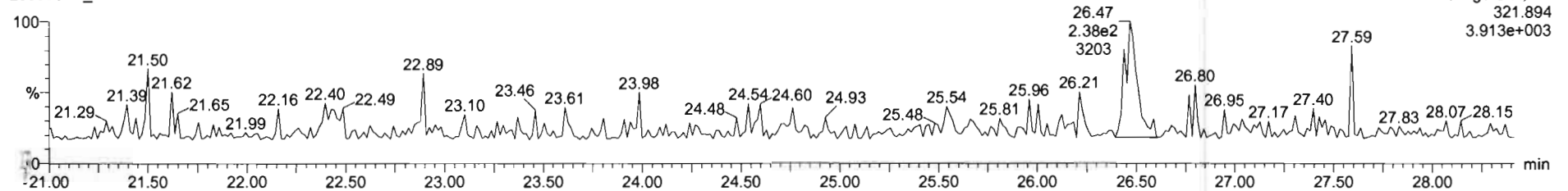
Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

200608R1_4

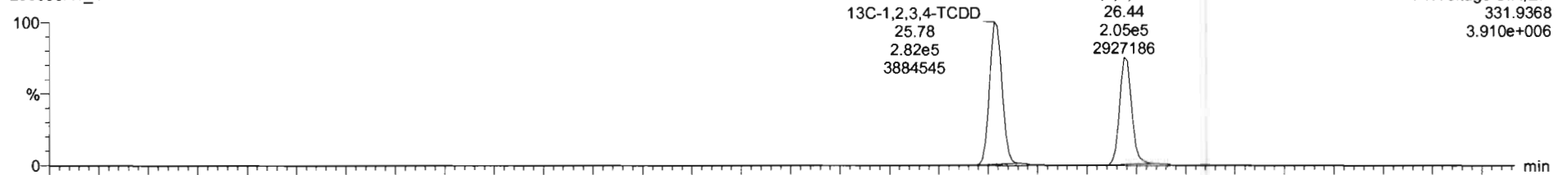


200608R1_4

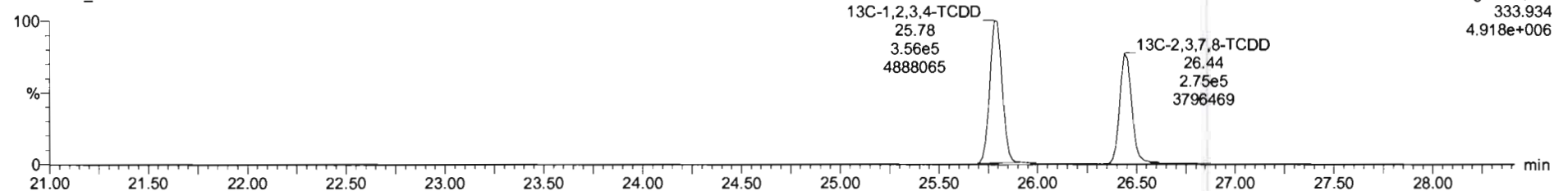


13C-2,3,7,8-TCDD

200608R1_4



200608R1_4



Dataset: Untitled

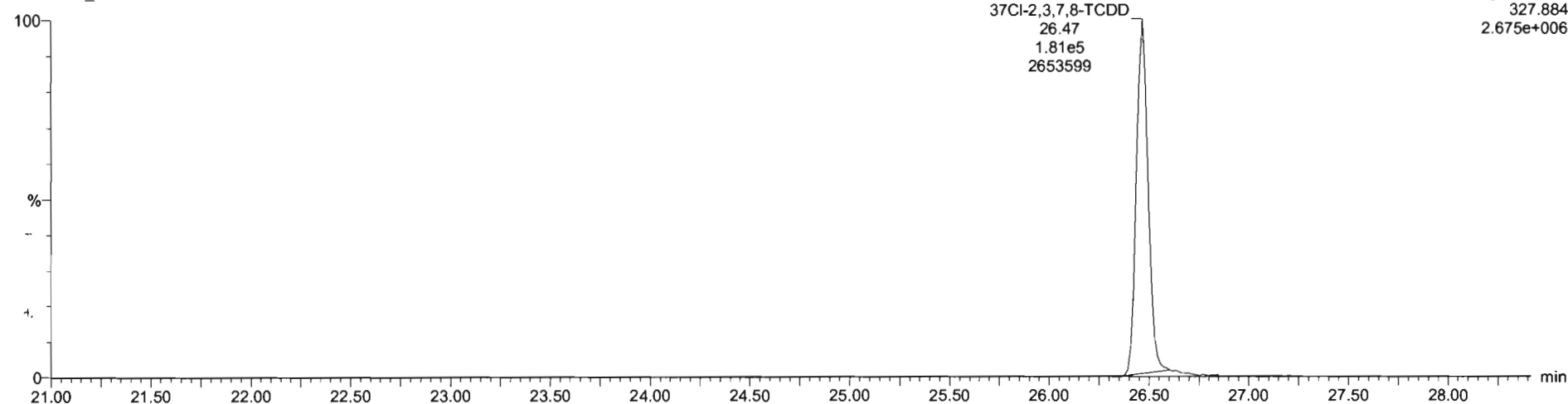
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Printed: Tuesday, June 09, 2020 07:23:34 Pacific Daylight Time

Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

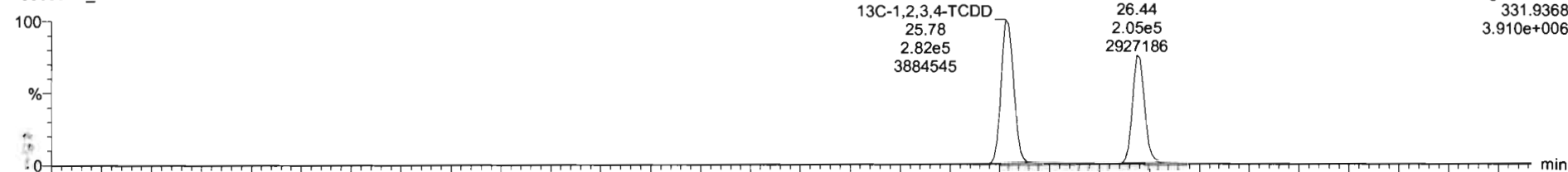
37Cl-2,3,7,8-TCDD

200608R1_4

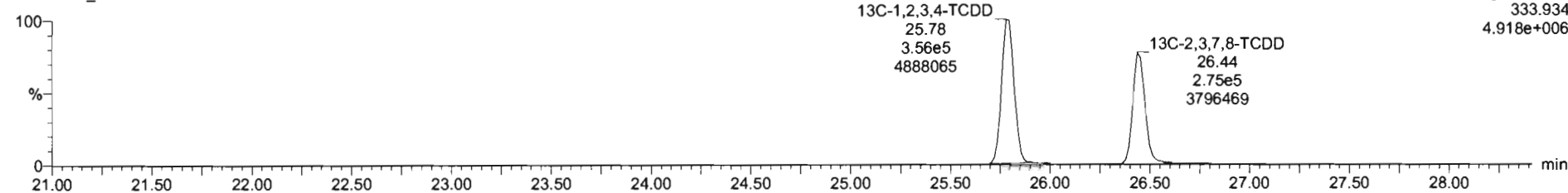


13C-1,2,3,4-TCDD

200608R1_4



200608R1_4



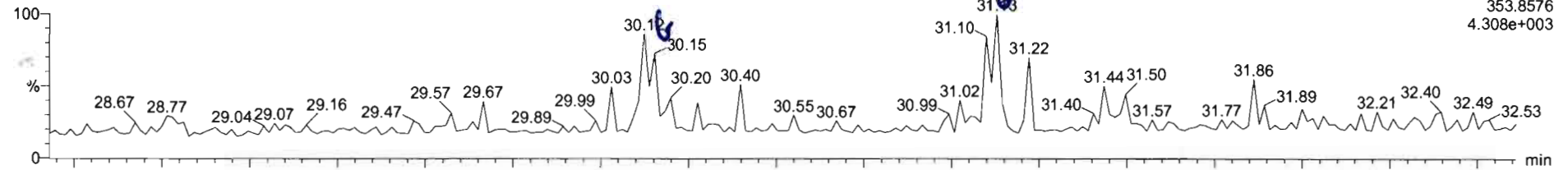
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Printed: Tuesday, June 09, 2020 07:23:34 Pacific Daylight Time

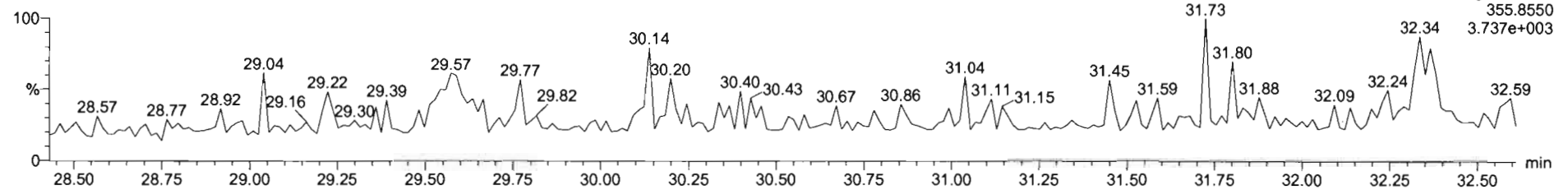
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1,2,3,7,8-PeCDD

200608R1_4

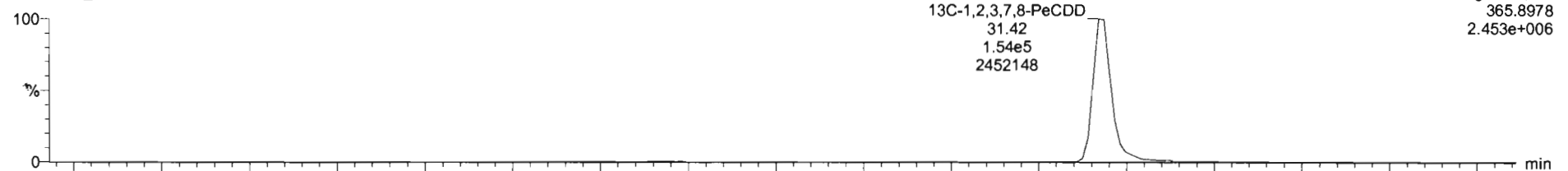


200608R1_4

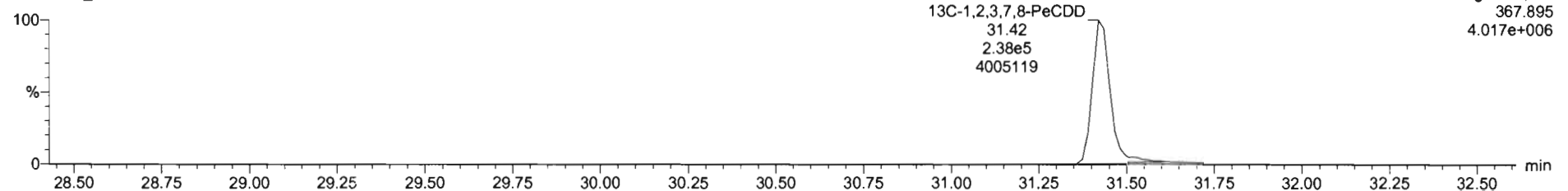


13C-1,2,3,7,8-PeCDD

200608R1_4



200608R1_4



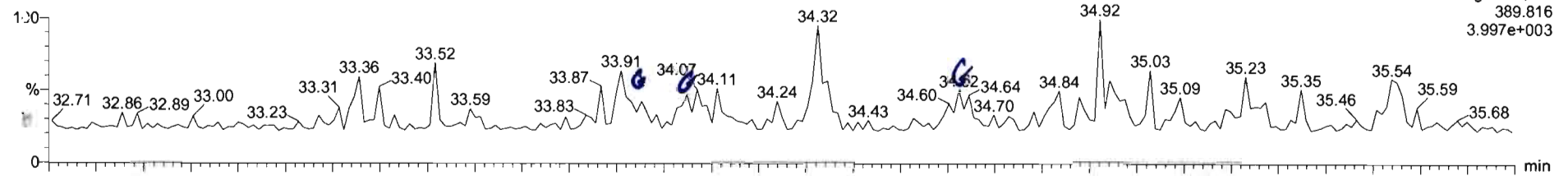
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Printed: Tuesday, June 09, 2020 07:23:34 Pacific Daylight Time

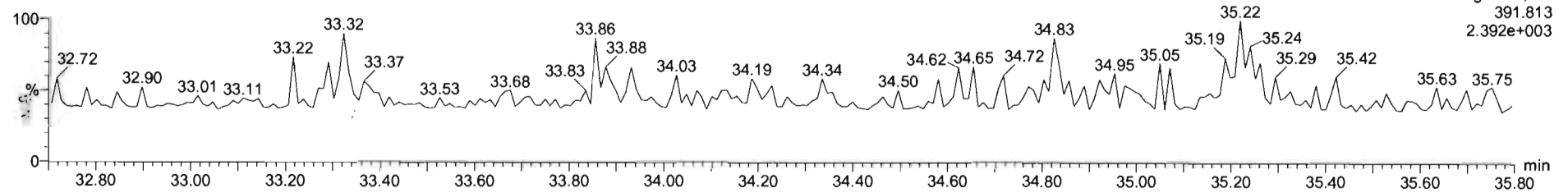
Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

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

200608R1_4

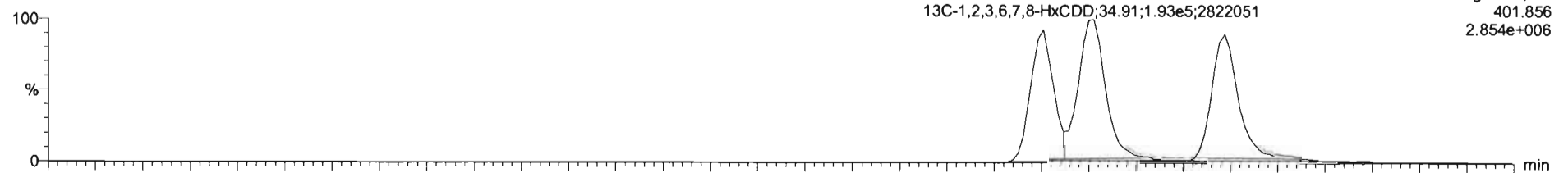


200608R1_4

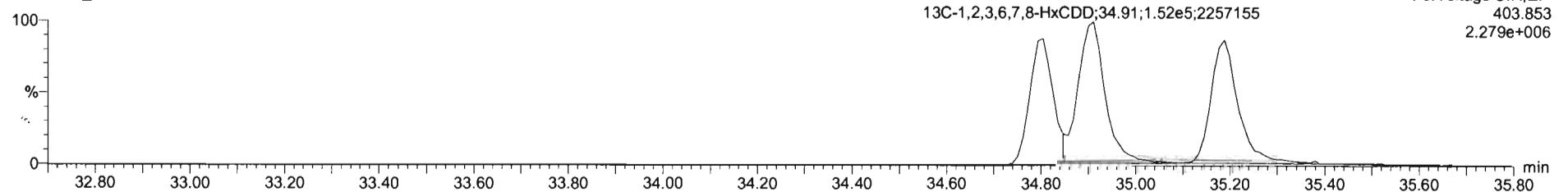


13C-1,2,3,4,7,8-HxCDD

200608R1_4



200608R1_4



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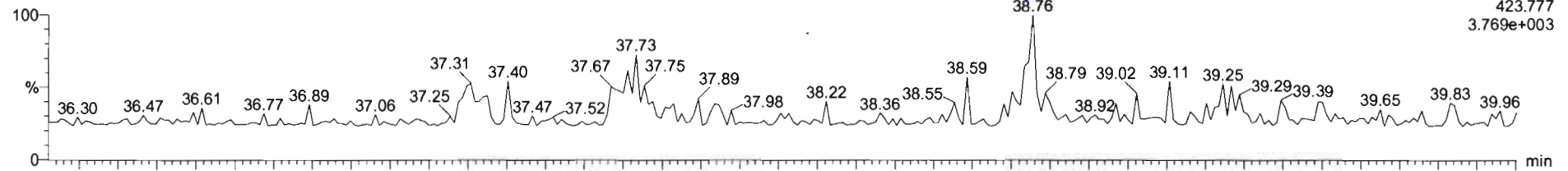
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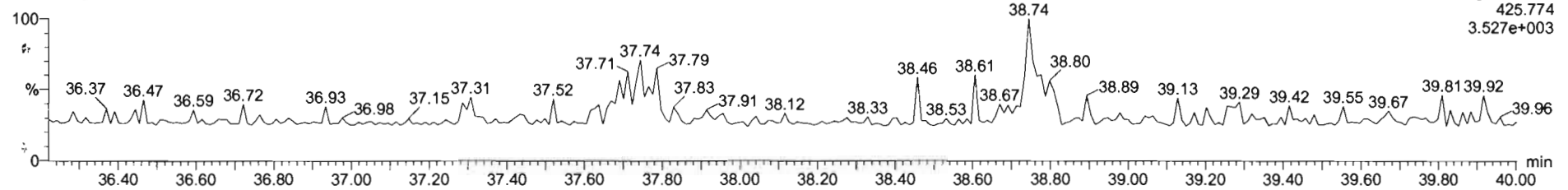
Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

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

200608R1_4

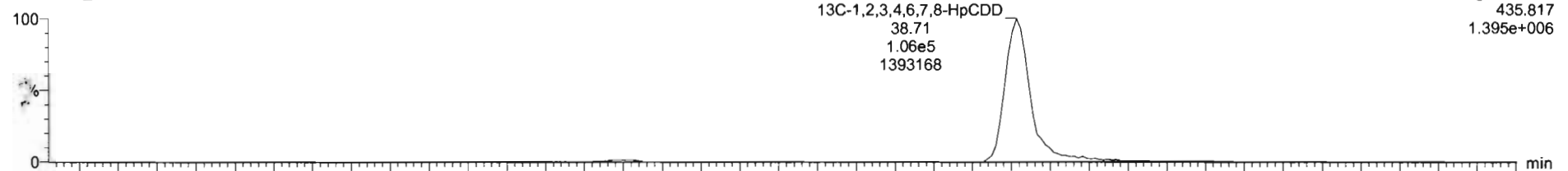


200608R1_4

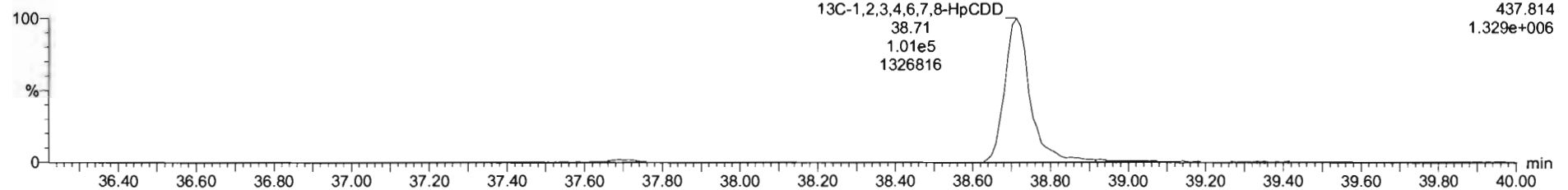


13C-1,2,3,4,6,7,8-HpCDD

200608R1_4

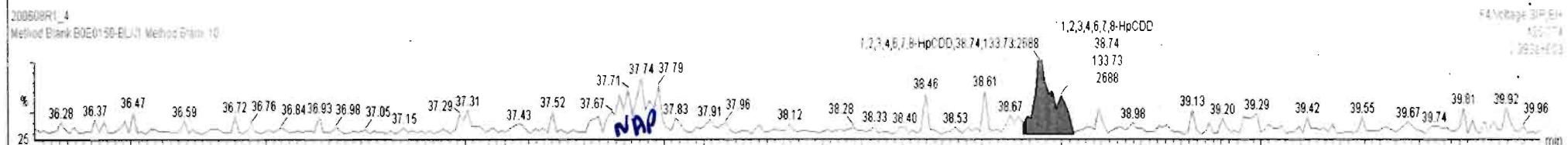
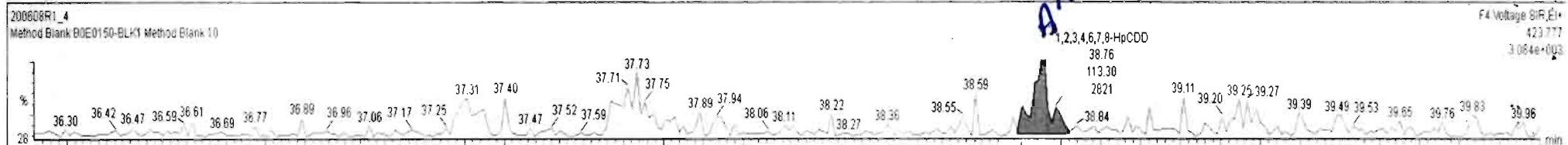


200608R1_4



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9081	10.000					0.0864	
41 Total Hexa-Dioxins				0.8923	10.000					0.0880	
42 Total Hepta-Dioxins				0.8639	10.000			0.000		0.113	0.256
43 Total Tetra-Furans				0.7510	10.000					0.0319	
44 1st Func. Penta-Furans				0.8925	10.000					0.0192	

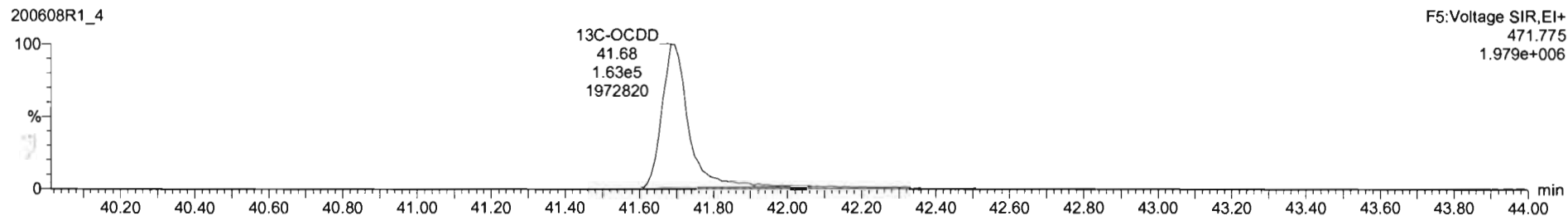
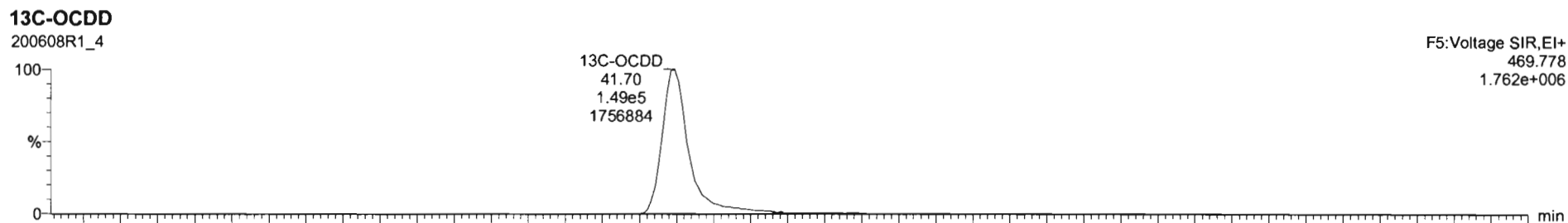
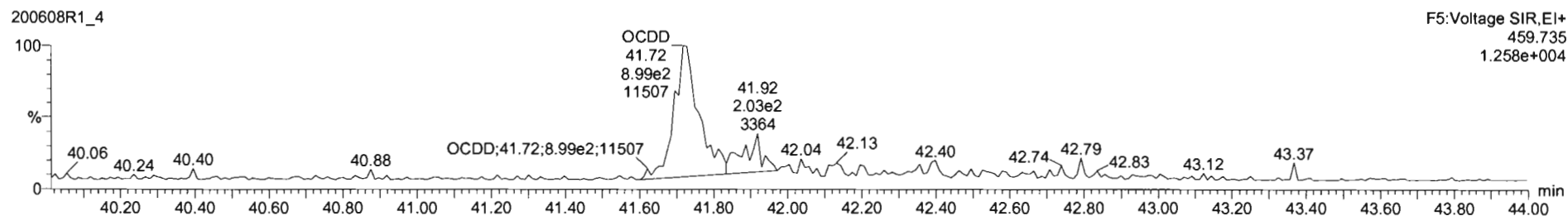
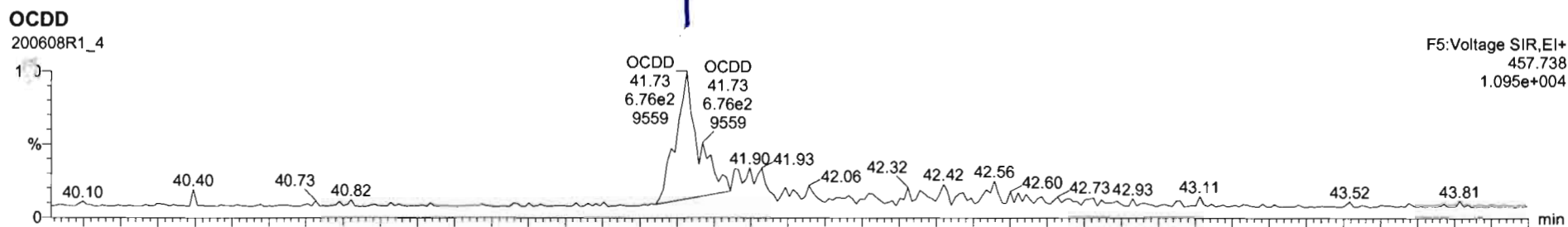
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1,2,3,4,6,7,8-HpCDD	38.76	1.133e2	1.337e2	0.85	YES	0.25619	0.00000



Dataset: Untitled

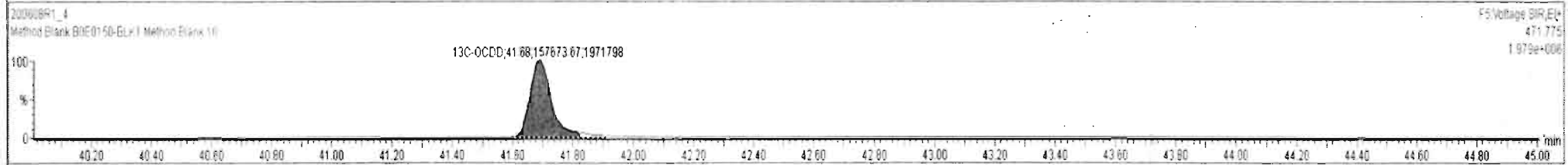
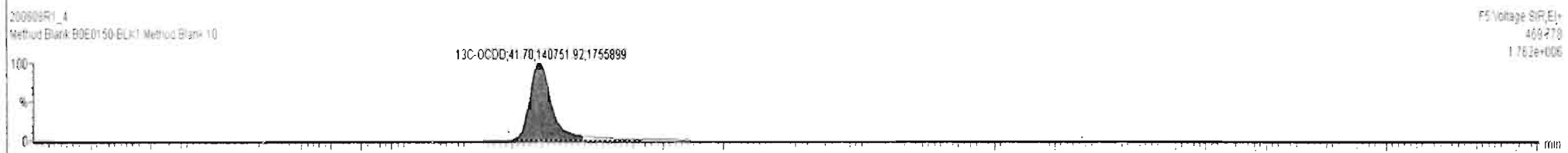
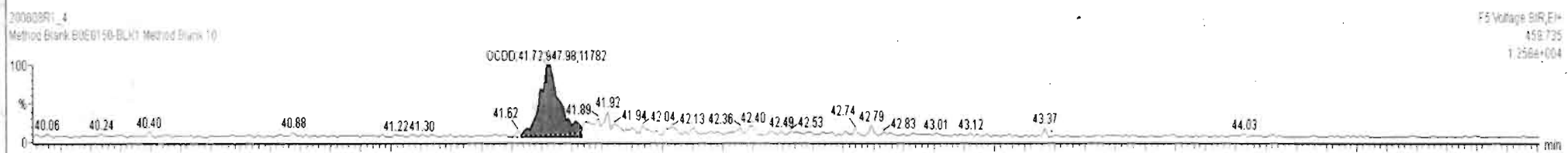
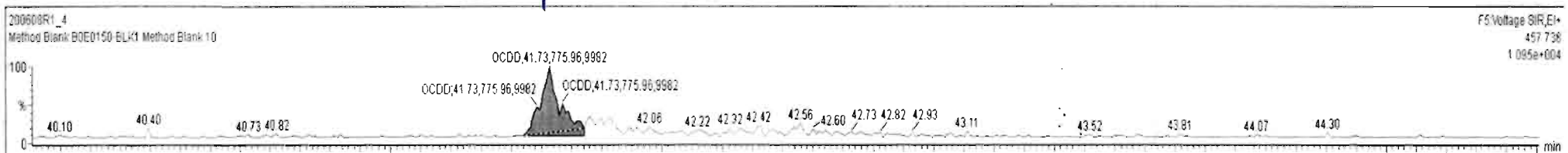
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Printed: Tuesday, June 09, 2020 07:23:34 Pacific Daylight Time

Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	1.72e3	0.82	NO	0.9136	10.000	41.73	1.001	2.53		0.407	2.53
8 2,3,7,8-TCDF			NO	0.7510	10.000					0.0908	
9 1,2,3,7,8-PeCDF			NO	0.8925	10.000					0.0658	
10 2,3,4,7,8-PeCDF			NO	0.9348	10.000					0.0635	
11 1,2,3,4,7,8-HxCDF			NO	0.8845	10.000					0.0775	

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



Dataset: Untitled

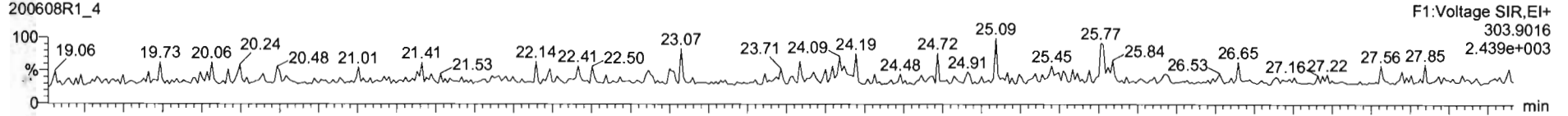
Last Altered: Tuesday, June 09, 2020 07:22:53 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 07:23:34 Pacific Daylight Time

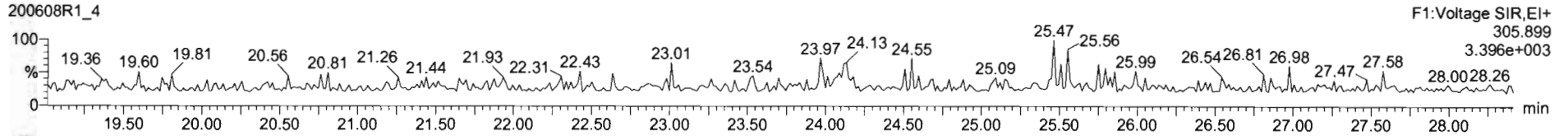
Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDF

200608R1_4

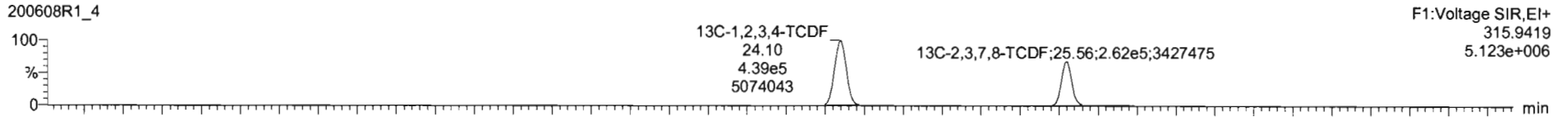


200608R1_4

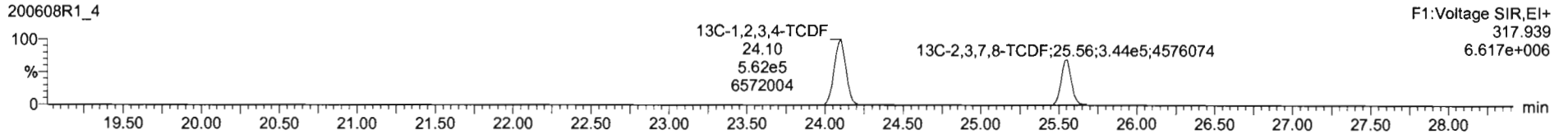


¹³C-2,3,7,8-TCDF

200608R1_4

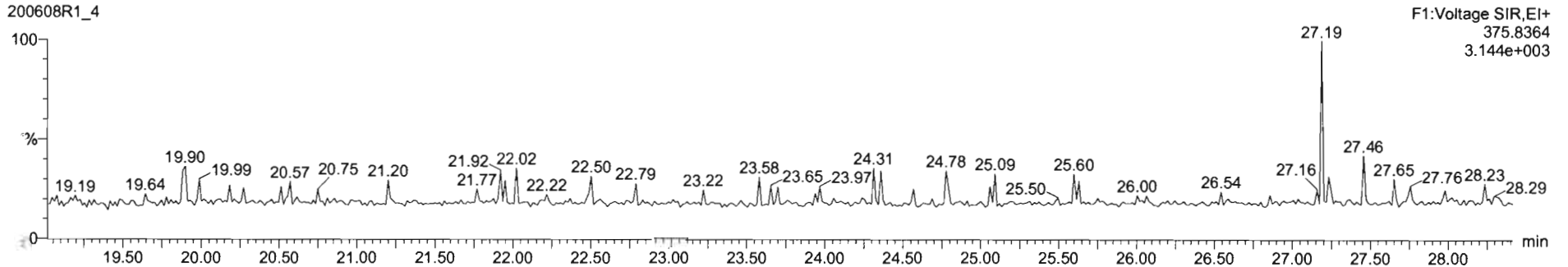


200608R1_4



DPE1

200608R1_4



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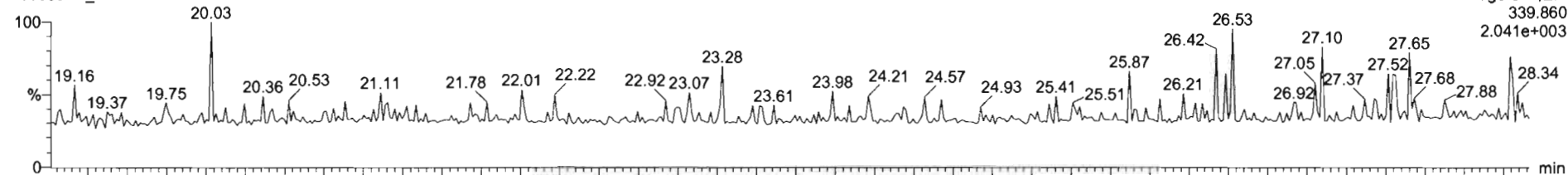
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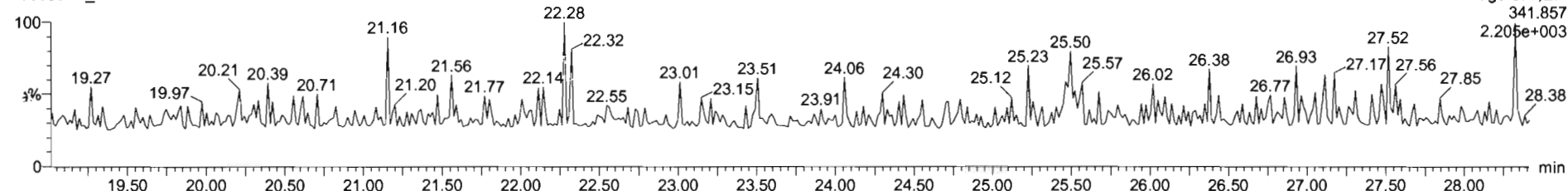
Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200608R1_4

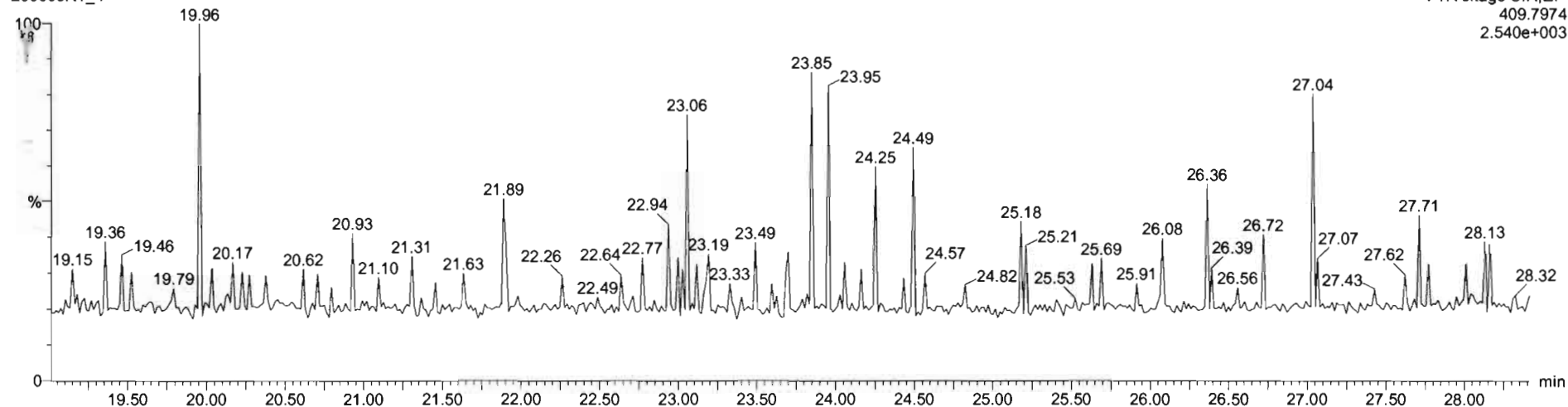


200608R1_4



DPE6

200608R1_4



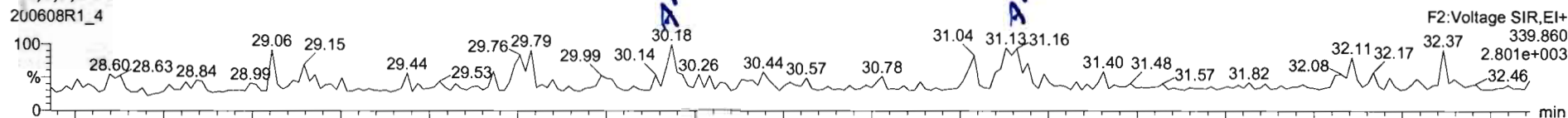
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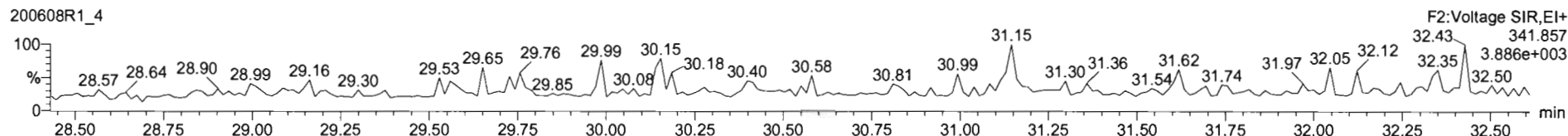
Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDF

200608R1_4

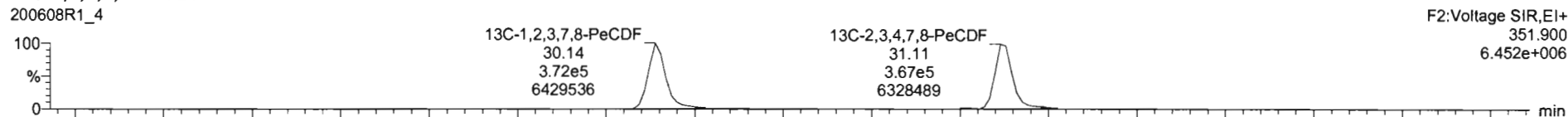


200608R1_4

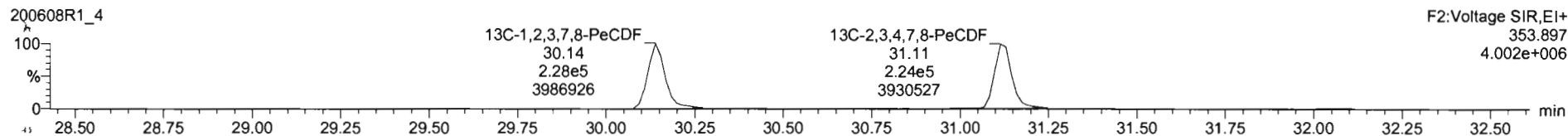


13C-1,2,3,7,8-PeCDF

200608R1_4

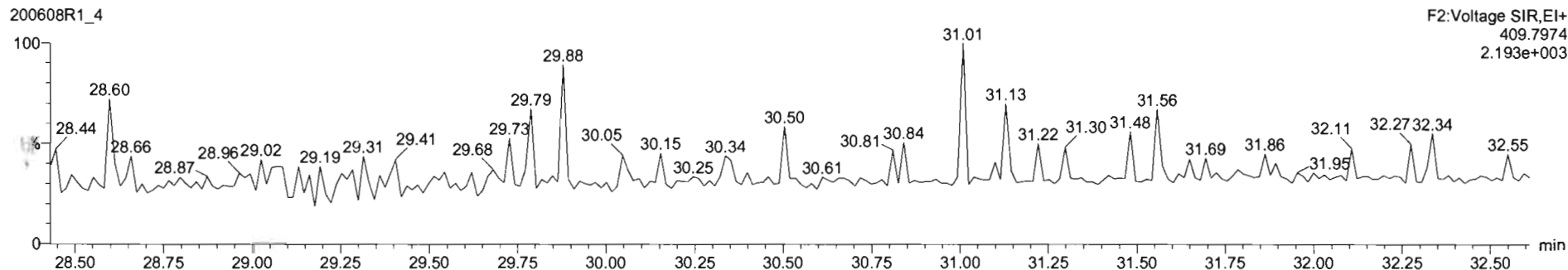


200608R1_4



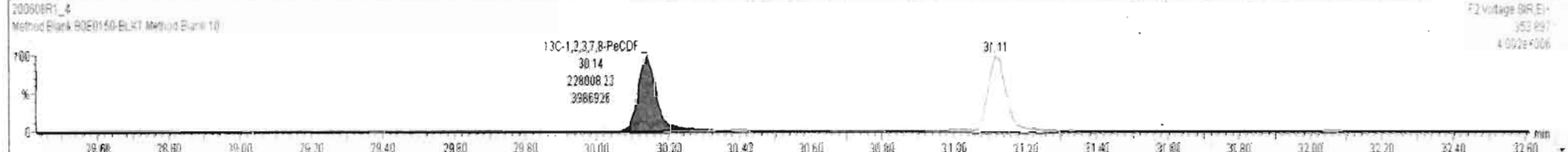
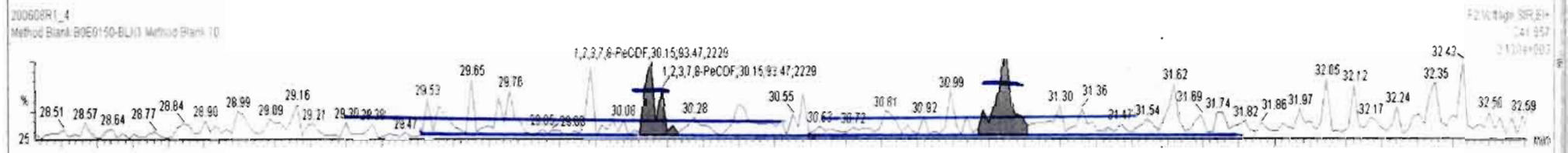
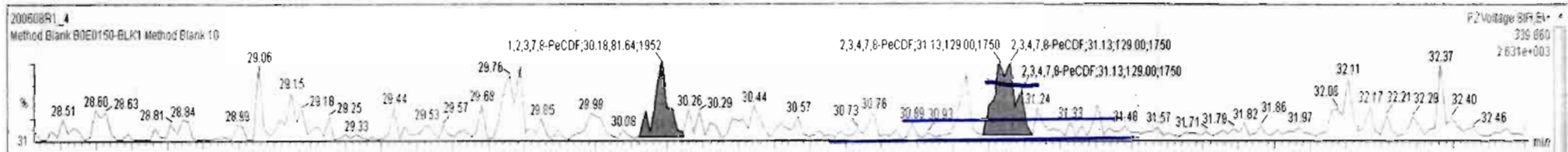
DPE2

200608R1_4



Name	Resp	RA	n/y	RRF	wtAvc	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7510	10.000					0.0319	
44 1st Func. Penta-Furans				0.8925	10.000					0.0192	
45 Total Penta-Furans				0.8925	10.000			0.000		0.0356	0.127
46 Total Hexa-Furans				0.9341	10.000					0.0402	
47 Total Hepta-Furans				0.8734	10.000					0.0639	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-PeCDF	30.18	8.164e1	9.347e1	0.87	YES	0.050198	0.00000
2 2,3,4,7,8-PeCDF	31.13	1.290e2	1.359e2	0.95	YES	0.076853	0.00000

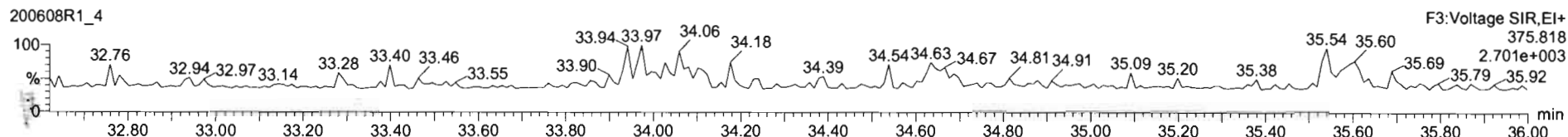
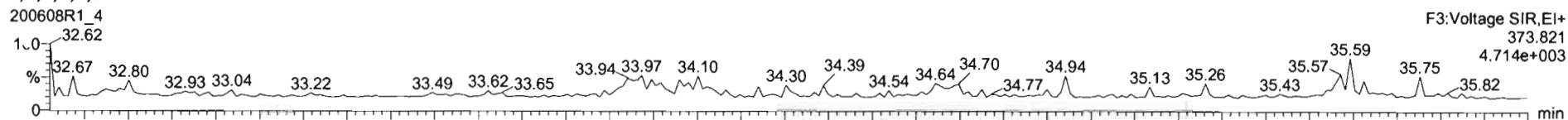


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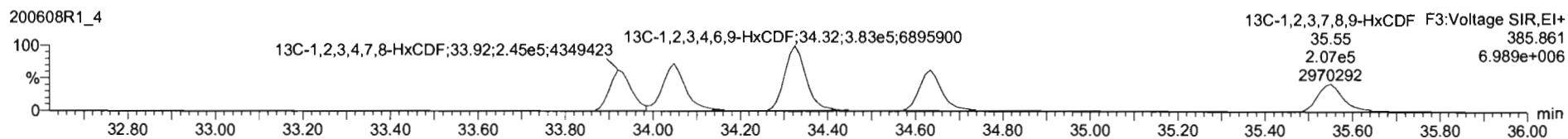
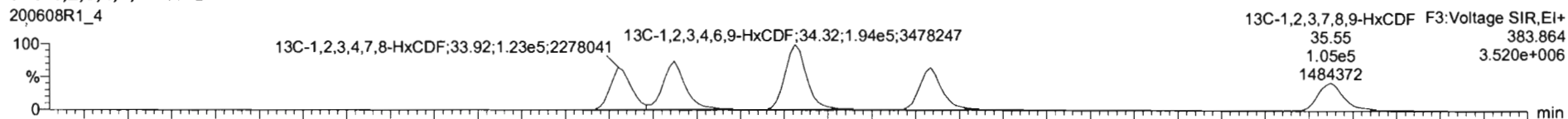
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Printed: Tuesday, June 09, 2020 07:23:34 Pacific Daylight Time

Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

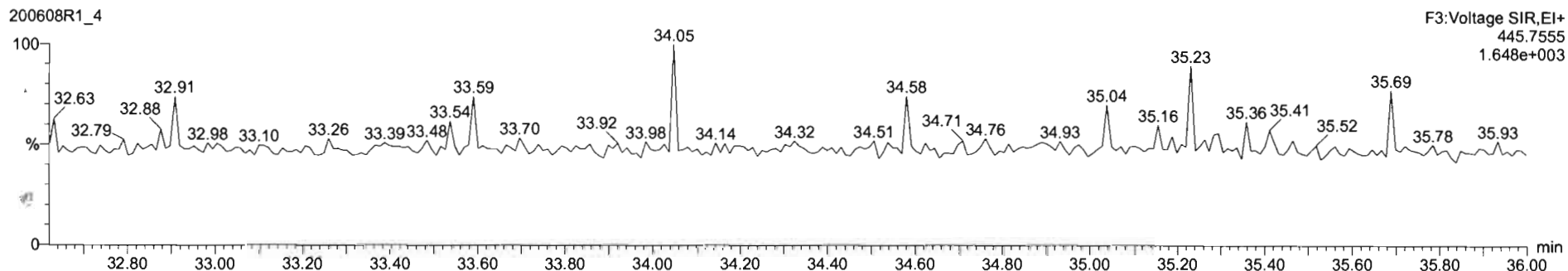
1,2,3,4,7,8-HxCDF



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

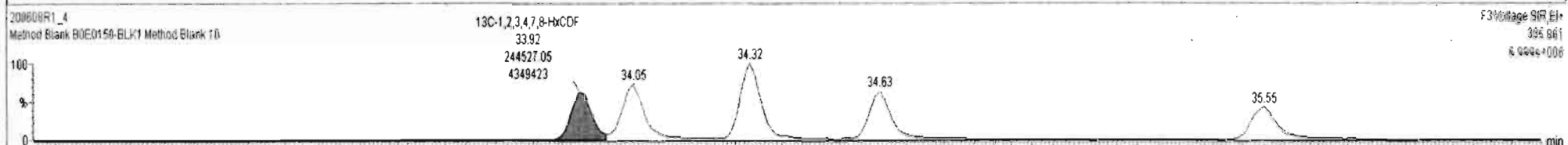
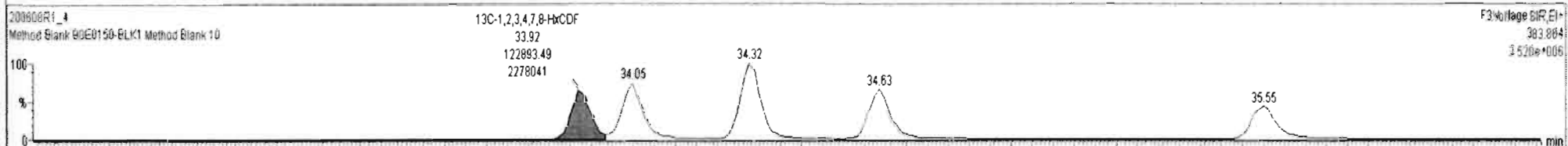
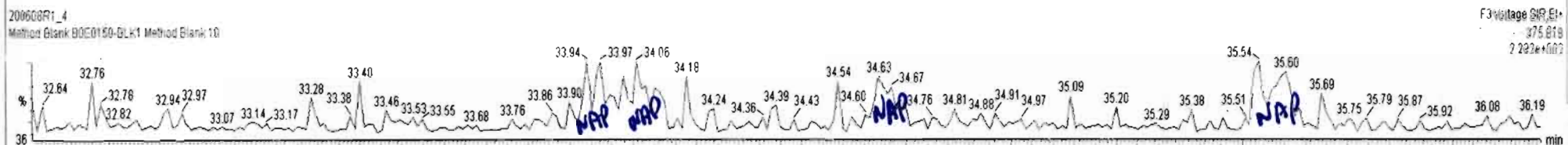
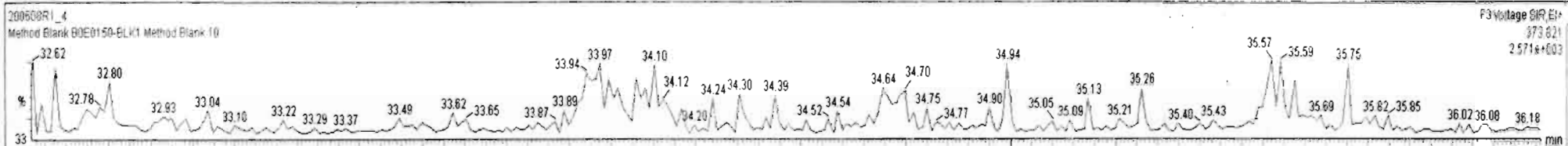


DPE3



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7510	10.000					0.0319	
44 1st Func. Penta-Furans				0.8925	10.000					0.0192	
45 Total Penta-Furans				0.8925	10.000			0.000		0.0356	0.127
46 Total Hexa-Furans				0.9341	10.000					0.0402	
47 Total Hepta-Furans				0.8734	10.000					0.0839	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.

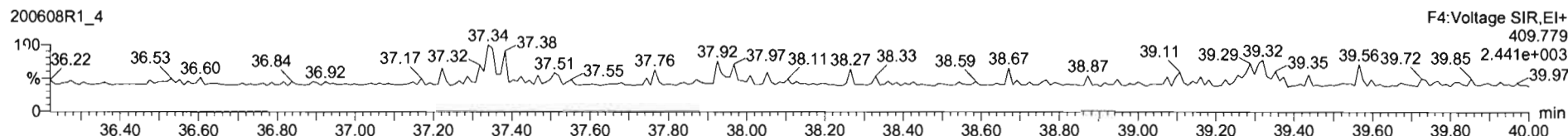
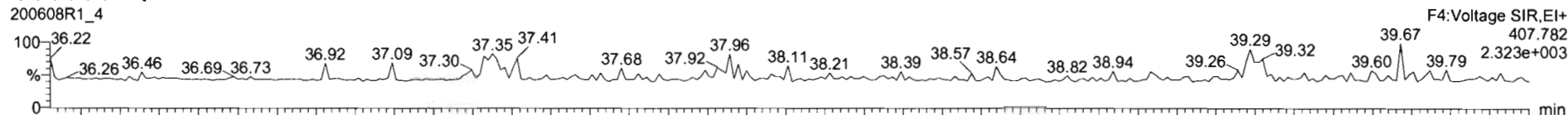


Dataset: Untitled

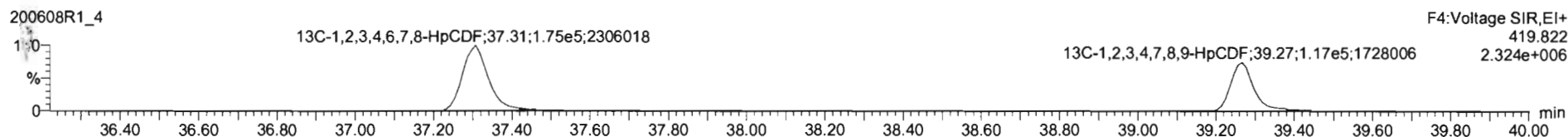
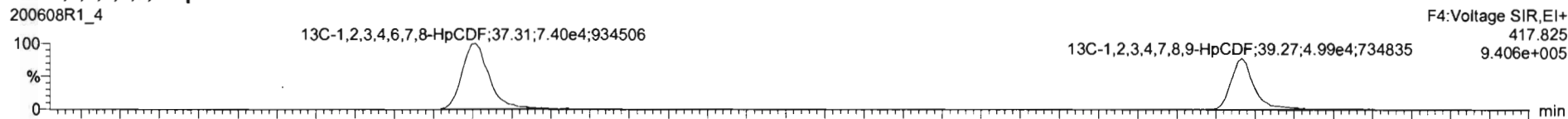
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Printed: Tuesday, June 09, 2020 07:23:34 Pacific Daylight Time

Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

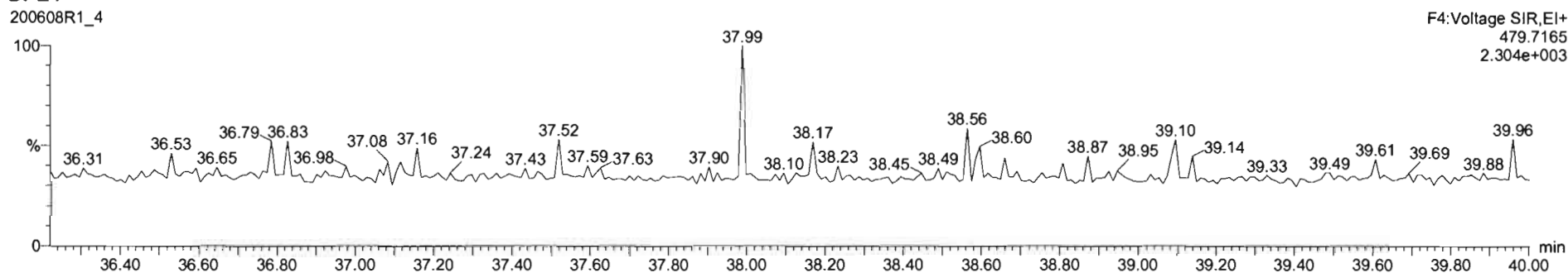
1,2,3,4,6,7,8-HpCDF



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



DPE4



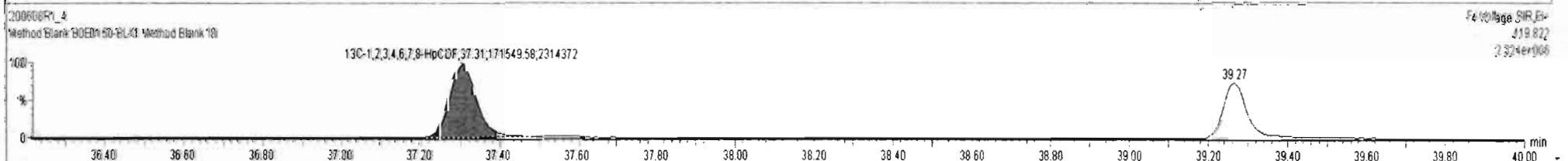
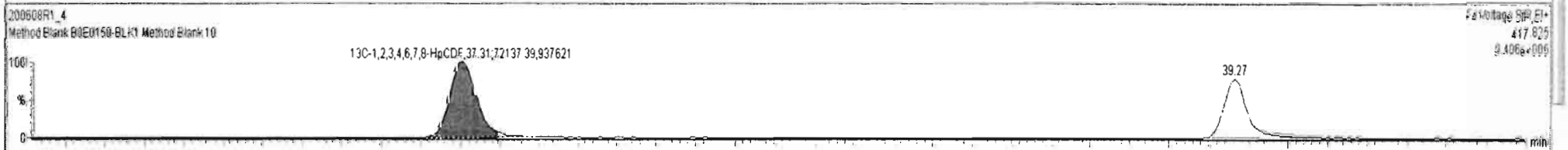
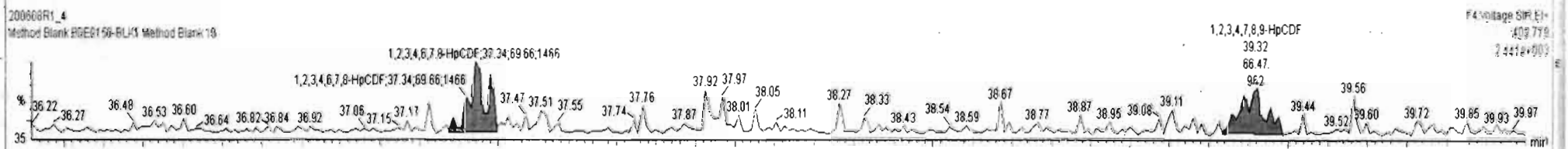
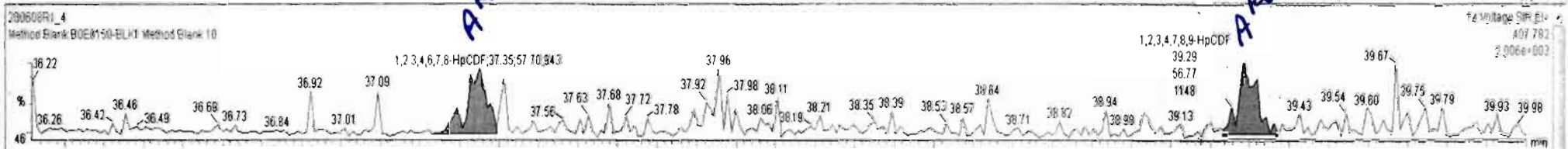
TargetLynx - 200608R1-4* - [Chromatogram]

File Edit View Display Processing Window Help

200608R1_4 - E0E0150-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	nly	RRF	wtAvcI	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7510	10.000					0.0319	
44 1st Func. Penta-Furans				0.8925	10.000					0.0192	
45 Total Penta-Furans				0.8925	10.000			0.000		0.0356	0.127
46 Total Hexa-Furans				0.9341	10.000					0.0402	
47 Total Hepta-Furans				0.8734	10.000			0.000		0.0836	0.238

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.35	5.770e1	6.966e1	0.83	YES	0.10635	0.00000
2 1,2,3,4,7,8,9-HpCDF	39.29	5.677e1	6.647e1	0.85	YES	0.13143	0.00000



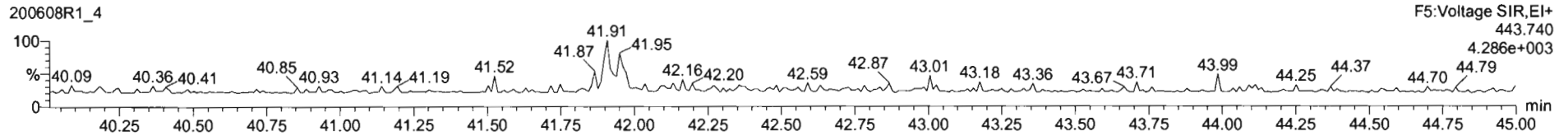
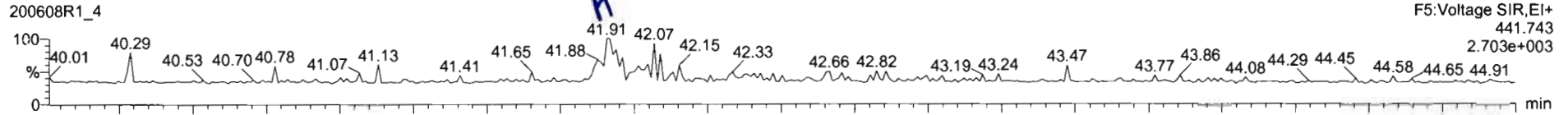
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Last Altered: Tuesday, June 09, 2020 07:22:53 Pacific Daylight Time

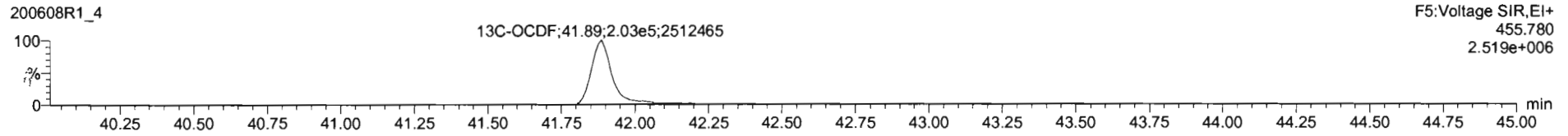
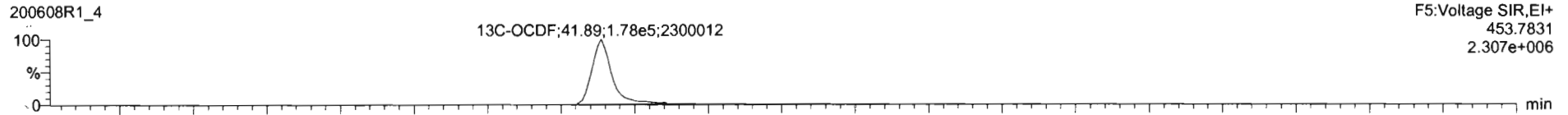
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Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

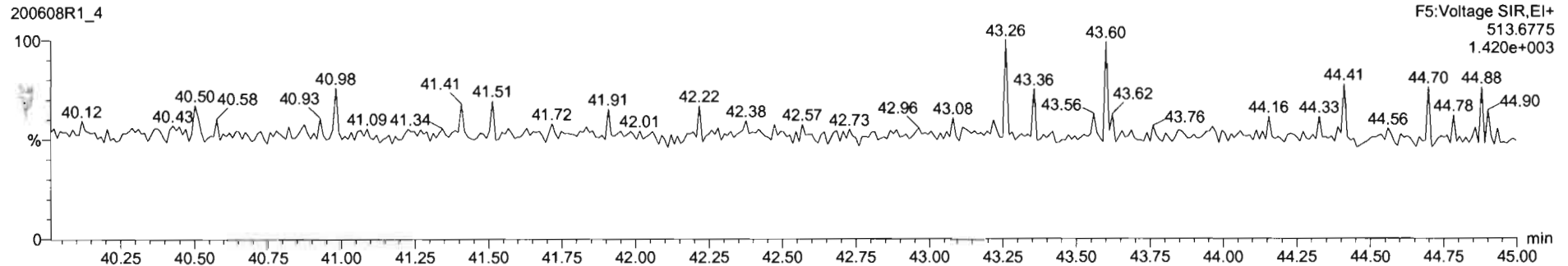
OCDF



13C-OCDF



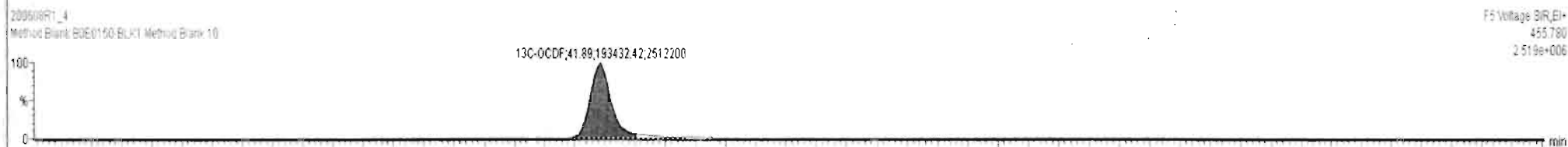
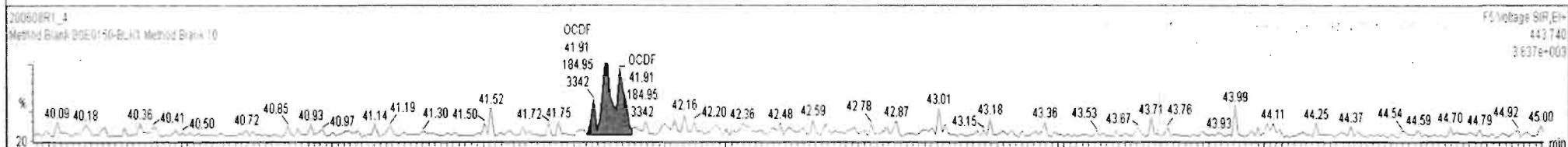
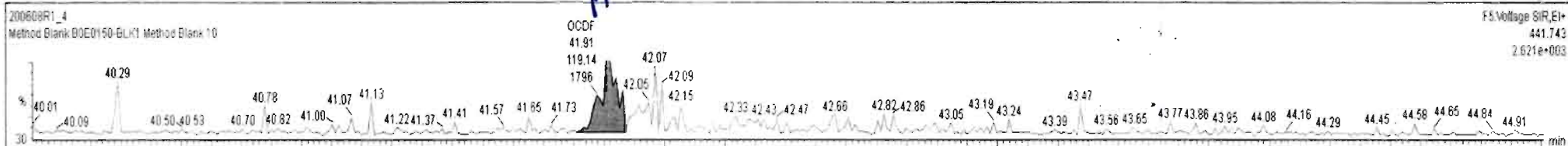
DPE5



200608R1_4 - B0E0150-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
17 OCDF	3.04e2	0.64	YES	0.8065	10.000	41.91	1.001	0.413		0.204	0.343
18 13C-2,3,7,8-TCDD	4.79e5	0.74	NO	1.1563	10.000	26.44	1.026	130	64.9	0.282	
19 13C-1,2,3,7,8-PeCDD	3.91e5	0.65	NO	0.8490	10.000	31.42	1.219	144	72.2	0.423	
20 13C-1,2,3,4,7,8-HxCDD	2.58e5	1.29	NO	0.7790	10.000	34.80	1.014	115	57.5	0.559	
21 13C-1,2,3,6,7,8-HxCDD	3.45e5	1.27	NO	1.0167	10.000	34.91	1.017	118	56.8	0.428	

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

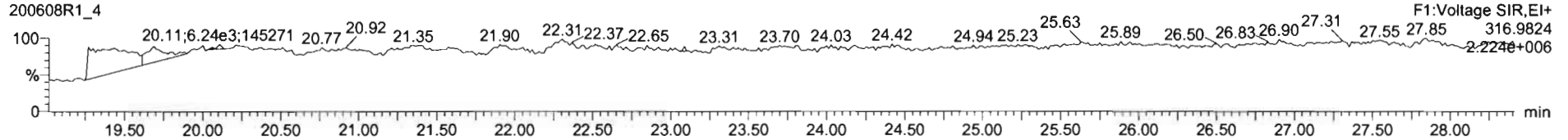


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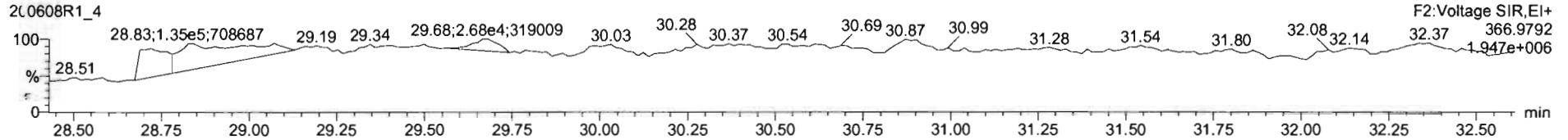
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Printed: Tuesday, June 09, 2020 07:23:34 Pacific Daylight Time

Name: 200608R1_4, Date: 08-Jun-2020, Time: 14:02:35, ID: B0E0150-BLK1 Method Blank 10, Description: Method Blank

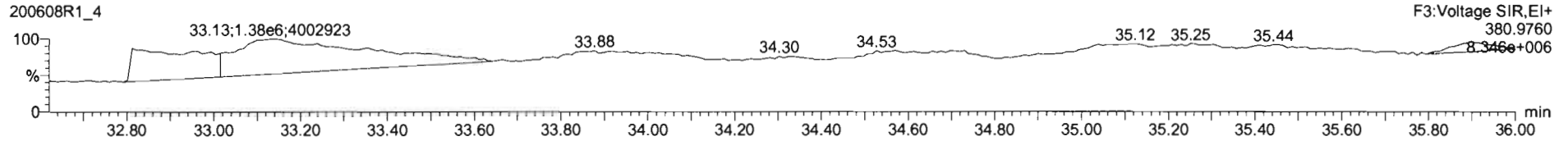
P. K1



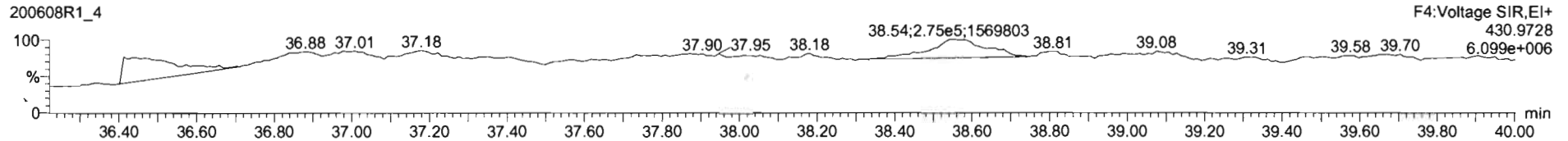
PK2



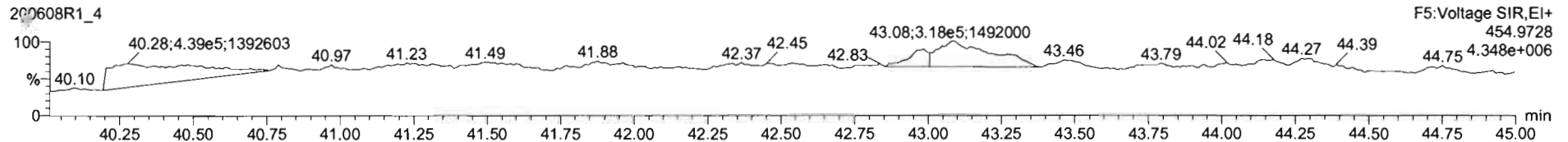
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200608R1\200608R1-2.qld

Last Altered: Monday, June 08, 2020 1:15:22 PM Pacific Daylight Time

Printed: Tuesday, June 09, 2020 4:49:29 PM Pacific Daylight Time

dy 06-09-2020

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

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

C706/12/2020

Name: 200608R1_2, Date: 08-Jun-2020, Time: 12:28:37, ID: B0E0150-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.09e4	0.75	NO	0.888	10.000	26.455	26.45	1.001	1.001	18.833		0.291	18.8
2	2 1,2,3,7,8-PeCDD	1.07e5	0.58	NO	0.908	10.000	31.427	31.42	1.001	1.000	99.835		0.402	99.8
3	3 1,2,3,4,7,8-HxCDD	1.05e5	1.25	NO	1.03	10.000	34.793	34.79	1.000	1.000	100.98		0.461	101
4	4 1,2,3,6,7,8-HxCDD	1.26e5	1.25	NO	0.892	10.000	34.889	34.90	1.000	1.000	103.17		0.442	103
5	5 1,2,3,7,8,9-HxCDD	1.35e5	1.25	NO	0.887	10.000	35.177	35.18	1.000	1.000	102.66		0.429	103
6	6 1,2,3,4,6,7,8-HpCDD	1.07e5	1.02	NO	0.864	10.000	38.725	38.71	1.000	1.000	107.19		0.533	107
7	7 OCDD	1.91e5	0.92	NO	0.914	10.000	41.685	41.69	1.000	1.000	196.89		0.725	197
8	8 2,3,7,8-TCDF	2.38e4	0.77	NO	0.751	10.000	25.551	25.56	1.001	1.001	19.554		0.185	19.6
9	9 1,2,3,7,8-PeCDF	1.54e5	1.63	NO	0.893	10.000	30.144	30.14	1.001	1.000	101.65		0.464	102
10	10 2,3,4,7,8-PeCDF	1.52e5	1.59	NO	0.935	10.000	31.131	31.11	1.001	1.000	101.77		0.465	102
11	11 1,2,3,4,7,8-HxCDF	1.25e5	1.19	NO	0.884	10.000	33.910	33.92	1.000	1.000	104.89		0.602	105
12	12 1,2,3,6,7,8-HxCDF	1.62e5	1.13	NO	0.889	10.000	34.048	34.05	1.000	1.000	107.17		0.510	107
13	13 2,3,4,6,7,8-HxCDF	1.66e5	1.25	NO	0.934	10.000	34.647	34.62	1.001	1.000	102.35		0.473	102
14	14 1,2,3,7,8,9-HxCDF	1.14e5	1.21	NO	0.871	10.000	35.528	35.55	1.000	1.001	106.32		0.797	106
15	15 1,2,3,4,6,7,8-HpCDF	1.29e5	0.99	NO	0.873	10.000	37.323	37.31	1.001	1.001	106.60		0.845	107
16	16 1,2,3,4,7,8,9-HpCDF	8.83e4	1.01	NO	1.01	10.000	39.256	39.27	1.000	1.000	107.94		1.07	108
17	17 OCDF	2.05e5	0.90	NO	0.806	10.000	41.876	41.89	1.000	1.000	210.44		0.775	210
18	18 13C-2,3,7,8-TCDD	2.50e5	0.78	NO	1.16	10.000	26.445	26.42	1.026	1.026	63.431	31.7	0.272	
19	19 13C-1,2,3,7,8-PeCDD	2.35e5	0.62	NO	0.849	10.000	31.619	31.41	1.227	1.219	81.175	40.6	0.274	
20	20 13C-1,2,3,4,7,8-HxCDD	2.02e5	1.29	NO	0.779	10.000	34.798	34.78	1.014	1.014	88.199	44.1	0.469	
21	21 13C-1,2,3,6,7,8-HxCDD	2.73e5	1.27	NO	1.02	10.000	34.911	34.89	1.017	1.017	91.575	45.8	0.360	
22	22 13C-1,2,3,7,8,9-HxCDD	2.97e5	1.29	NO	0.903	10.000	35.182	35.17	1.025	1.025	112.27	56.1	0.405	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.32e5	1.05	NO	0.689	10.000	38.703	38.71	1.128	1.128	114.68	57.3	0.442	
24	24 13C-OCDD	4.24e5	0.91	NO	0.652	10.000	41.723	41.69	1.216	1.215	221.59	55.4	0.571	
25	25 13C-2,3,7,8-TCDF	3.25e5	0.75	NO	1.06	10.000	25.489	25.53	0.989	0.991	57.432	28.7	0.438	
26	26 13C-1,2,3,7,8-PeCDF	3.39e5	1.65	NO	0.838	10.000	30.006	30.12	1.165	1.169	75.677	37.8	0.493	
27	27 13C-2,3,4,7,8-PeCDF	3.19e5	1.64	NO	0.817	10.000	30.957	31.10	1.202	1.207	73.197	36.6	0.506	
28	28 13C-1,2,3,4,7,8-HxCDF	2.70e5	0.50	NO	1.01	10.000	33.930	33.91	0.989	0.988	91.140	45.6	0.625	
29	29 13C-1,2,3,6,7,8-HxCDF	3.41e5	0.50	NO	1.17	10.000	34.054	34.04	0.992	0.992	99.460	49.7	0.539	
30	30 13C-2,3,4,6,7,8-HxCDF	3.48e5	0.48	NO	1.02	10.000	34.627	34.61	1.009	1.009	116.12	58.1	0.616	

Dataset: U:\WG12.PRO\Results\200608R1\200608R1-2.qld

Last Altered: Monday, June 08, 2020 1:15:22 PM Pacific Daylight Time

Printed: Tuesday, June 09, 2020 4:49:29 PM Pacific Daylight Time

Name: 200608R1_2, Date: 08-Jun-2020, Time: 12:28:37, ID: B0E0150-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	2.45e5	0.48	NO	0.860	10.000	35.526	35.53	1.035	1.035	97.240	48.6	0.732	
32	13C-1,2,3,4,6,7,8-HpCDF	2.78e5	0.42	NO	0.774	10.000	37.272	37.29	1.086	1.087	122.20	61.1	0.606	
33	13C-1,2,3,4,7,8,9-HpCDF	1.62e5	0.42	NO	0.521	10.000	39.300	39.26	1.145	1.144	105.68	52.8	0.901	
34	13C-OCDF	4.82e5	0.83	NO	0.746	10.000	41.894	41.88	1.221	1.220	220.26	55.1	0.455	
35	37Cl-2,3,7,8-TCDD	9.81e4			1.04	10.000	26.476	26.45	1.028	1.027	27.719	34.6	0.0558	
36	13C-1,2,3,4-TCDD	6.83e5	0.80	NO	1.00	10.000	25.890	25.76	1.000	1.000	200.00	100	0.315	
37	13C-1,2,3,4-TCDF	1.07e6	0.79	NO	1.00	10.000	24.360	24.09	1.000	1.000	200.00	100	0.464	
38	13C-1,2,3,4,6,9-HxCDF	5.87e5	0.50	NO	1.00	10.000	34.420	34.31	1.000	1.000	200.00	100	0.629	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200608R1\200608R1-2.qld

Last Altered: Monday, June 08, 2020 1:15:22 PM Pacific Daylight Time

Printed: Tuesday, June 09, 2020 4:49:29 PM Pacific Daylight Time

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

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

Name: 200608R1_2, Date: 08-Jun-2020, Time: 12:28:37, ID: B0E0150-BS1 OPR 10, Description: OPR

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	26.15	3.135e3	6.762e3	2.075e2	3.656e2	0.57	YES	0.000e0	0.00000	0.42900	0.291
2	2,3,7,8-TCDD	26.45	1.432e5	1.713e5	9.002e3	1.194e4	0.75	NO	2.094e4	18.833	18.833	0.291

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDD	31.42	6.797e5	1.142e6	3.912e4	6.749e4	0.58	NO	1.066e5	99.835	99.835	0.402

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDD	34.79	9.933e5	7.968e5	5.837e4	4.684e4	1.25	NO	1.052e5	100.98	100.98	0.461
2	1,2,3,6,7,8-HxCDD	34.90	1.081e6	8.568e5	6.997e4	5.580e4	1.25	NO	1.258e5	103.17	103.17	0.442
3	1,2,3,7,8,9-HxCDD	35.18	1.117e6	9.322e5	7.509e4	6.032e4	1.25	NO	1.354e5	102.66	102.66	0.429

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.71	7.841e3	6.141e3	5.354e2	2.944e2	1.82	YES	0.000e0	0.00000	0.59900	0.533
2	1,2,3,4,6,7,8-HpCDD	38.71	6.901e5	6.829e5	5.424e4	5.315e4	1.02	NO	1.074e5	107.19	107.19	0.533
3	Total Hepta-Dioxins	38.93	1.436e4	7.742e3	9.359e2	3.866e2	2.42	YES	0.000e0	0.00000	0.78700	0.533

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	2,3,7,8-TCDF	25.56	1.611e5	1.777e5	1.037e4	1.347e4	0.77	NO	2.384e4	19.554	19.554	0.185

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200608R1\200608R1-2.qld

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Printed: Tuesday, June 09, 2020 4:49:29 PM Pacific Daylight Time

Name: 200608R1_2, Date: 08-Jun-2020, Time: 12:28:37, ID: B0E0150-BS1 OPR 10, Description: OPR

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	1,2,3,7,8-PeCDF	30.14	1.622e6	1.014e6	9.523e4	5.834e4	1.63	NO	1.536e5	101.65	101.65	0.464
2	Total Penta-Furans	30.40	2.330e4	9.396e3	2.082e3	4.742e2	4.39	YES	0.000e0	0.00000	0.82400	0.475
3	2,3,4,7,8-PeCDF	31.11	1.706e6	1.057e6	9.325e4	5.852e4	1.59	NO	1.518e5	101.77	101.77	0.465
4	Total Penta-Furans	32.05	8.587e3	4.919e3	4.758e2	2.299e2	2.07	YES	0.000e0	0.00000	0.39900	0.475

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDF	33.92	1.218e6	9.967e5	6.804e4	5.697e4	1.19	NO	1.250e5	104.89	104.89	0.602
2	1,2,3,6,7,8-HxCDF	34.05	1.446e6	1.171e6	8.625e4	7.607e4	1.13	NO	1.623e5	107.17	107.17	0.510
3	2,3,4,6,7,8-HxCDF	34.62	1.470e6	1.230e6	9.233e4	7.415e4	1.25	NO	1.665e5	102.35	102.35	0.473
4	1,2,3,7,8,9-HxCDF	35.55	8.582e5	7.329e5	6.209e4	5.146e4	1.21	NO	1.135e5	106.32	106.32	0.797

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	37.31	8.062e5	8.021e5	6.421e4	6.509e4	0.99	NO	1.293e5	106.60	106.60	0.845
2	1,2,3,4,7,8,9-HpCDF	39.27	6.251e5	6.093e5	4.447e4	4.386e4	1.01	NO	8.833e4	107.94	107.94	1.07

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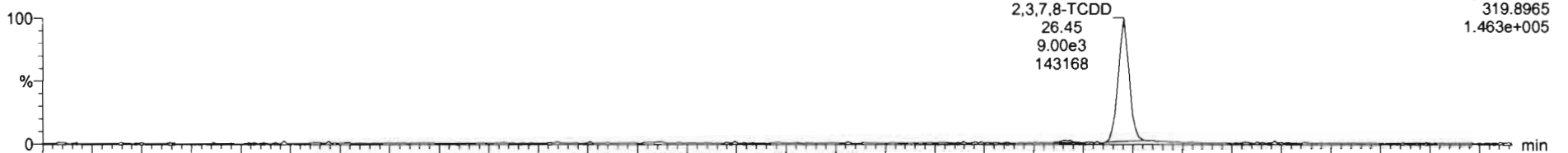
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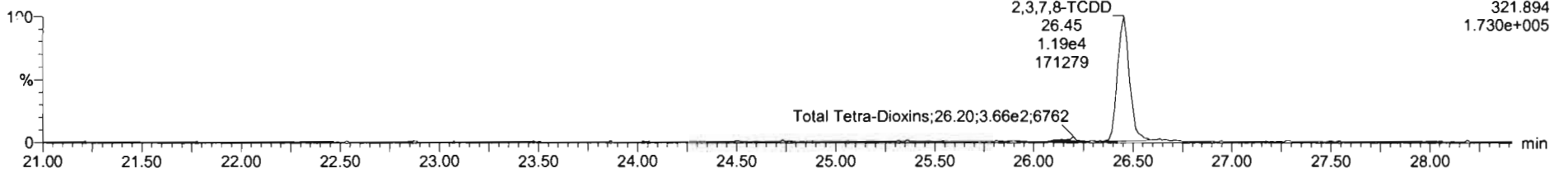
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2,3,7,8-TCDD

200608R1_2

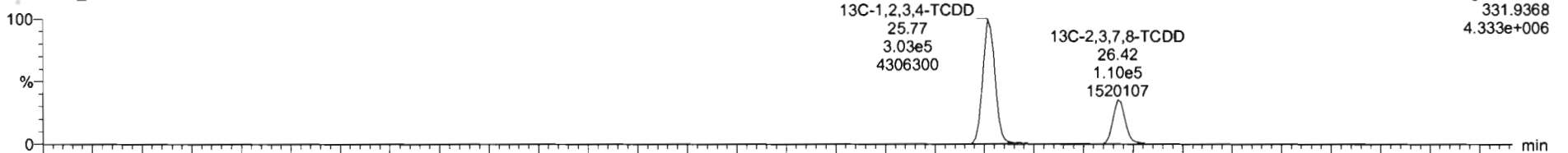


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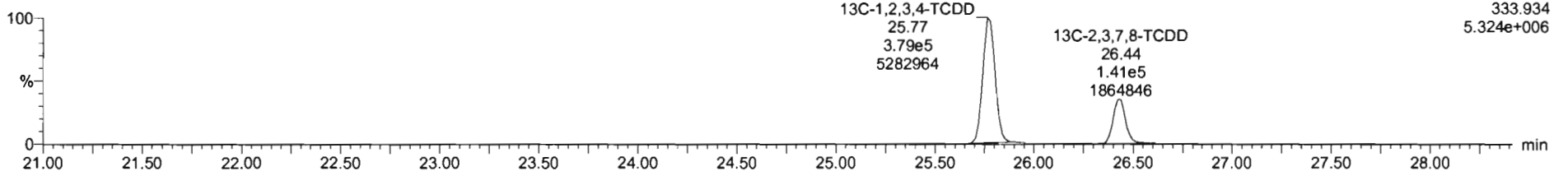


13C-2,3,7,8-TCDD

200608R1_2



200608R1_2



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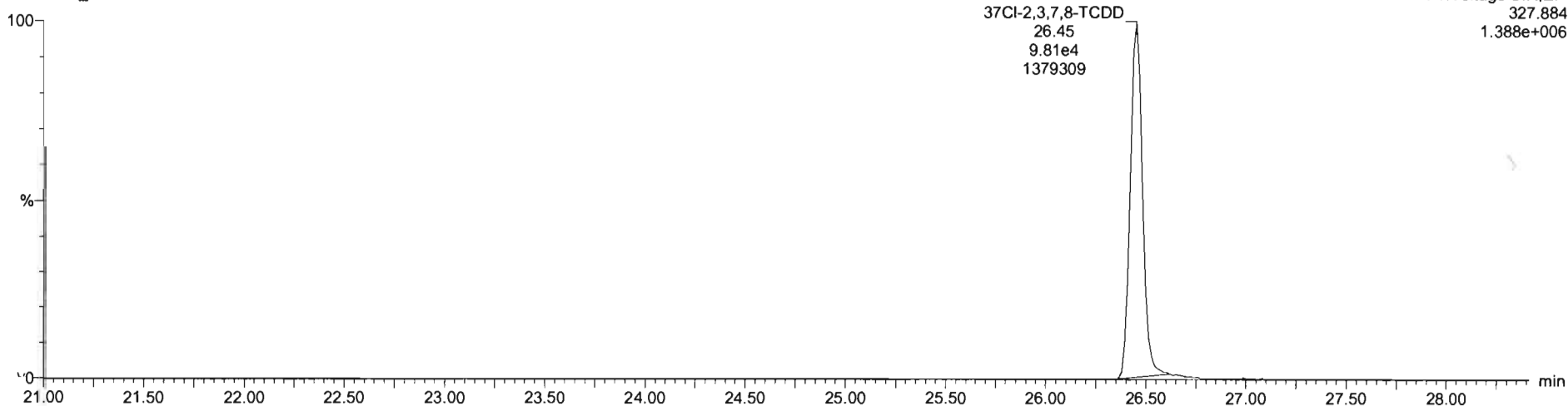
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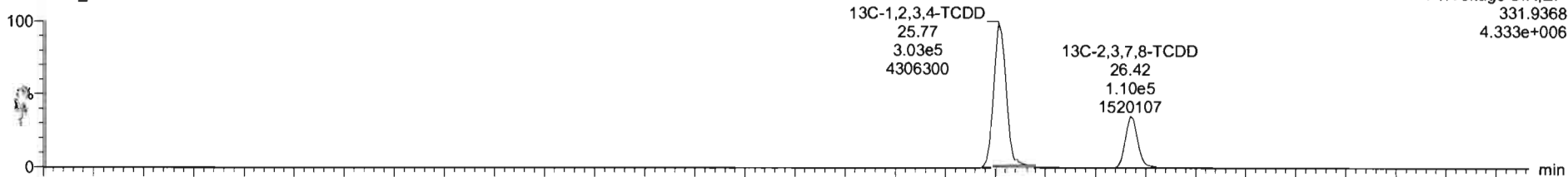
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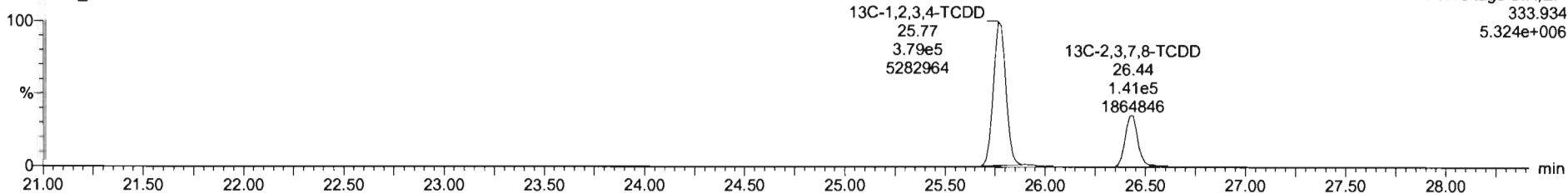


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200608R1_2



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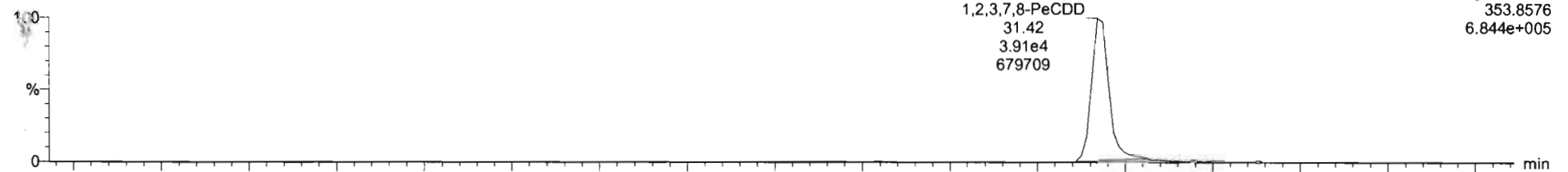
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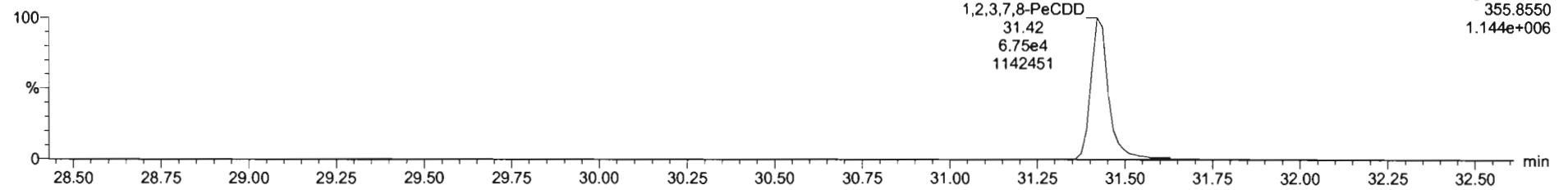
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1,2,3,7,8-PeCDD

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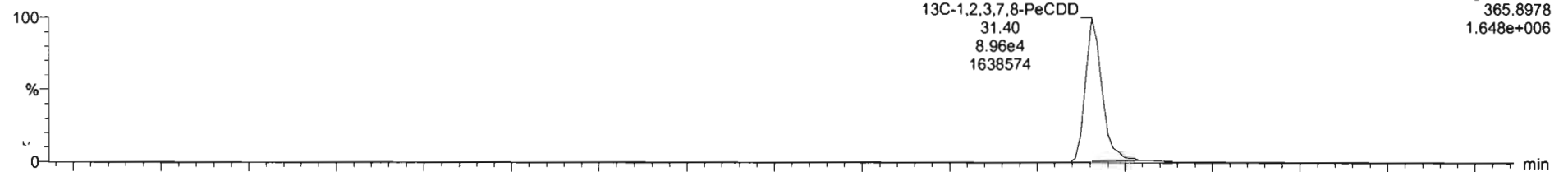


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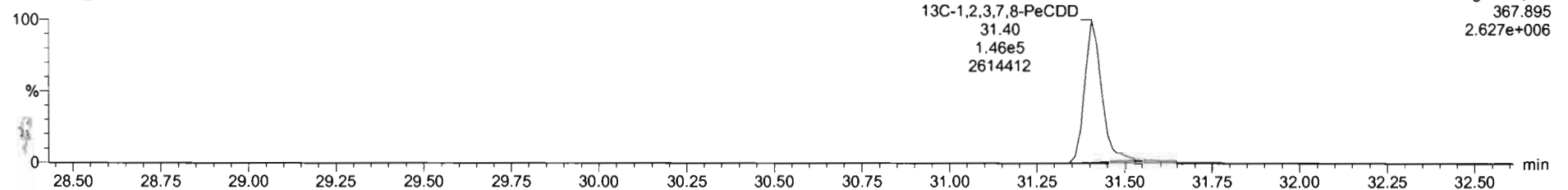


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200608R1_2



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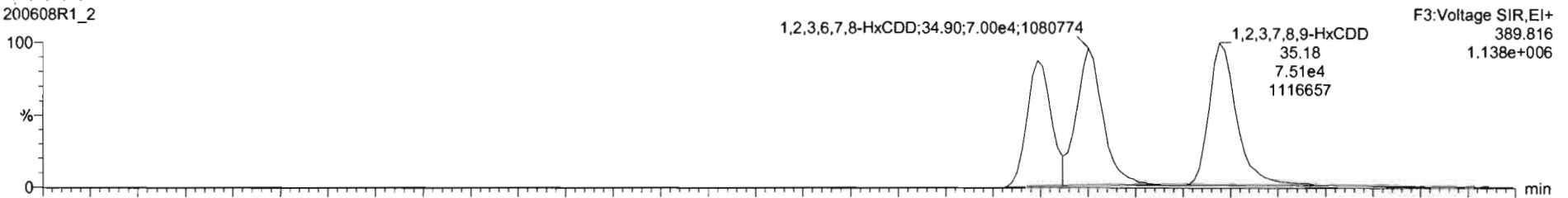
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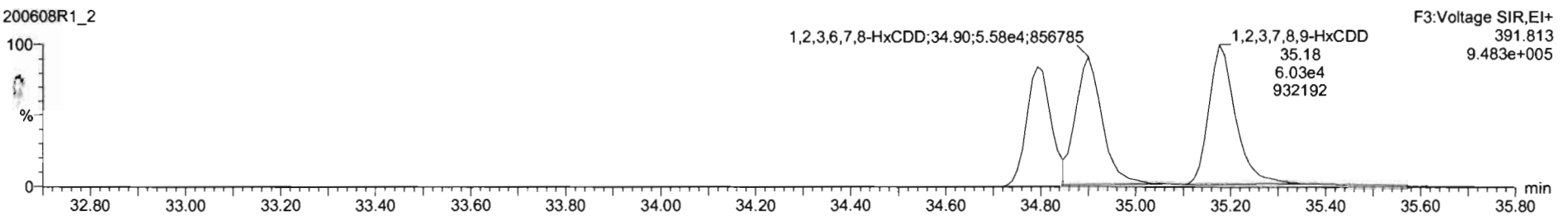
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1,2,3,4,7,8-HxCDD

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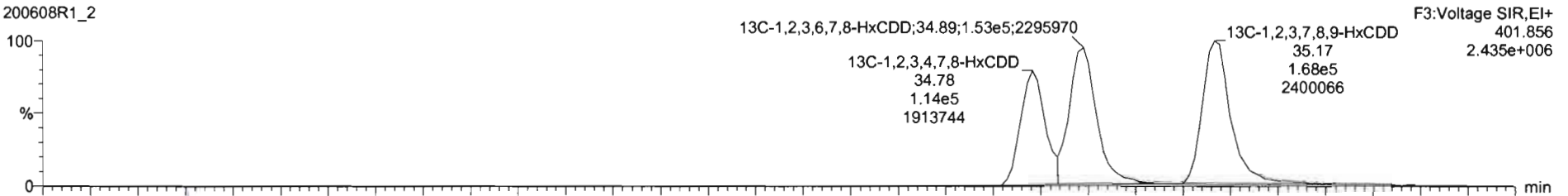


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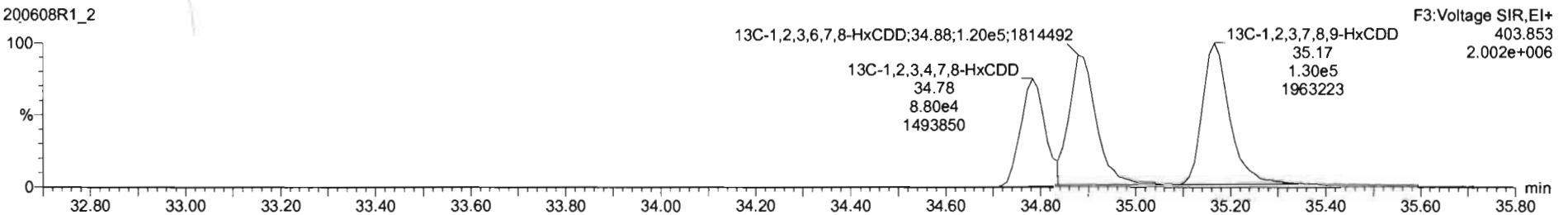


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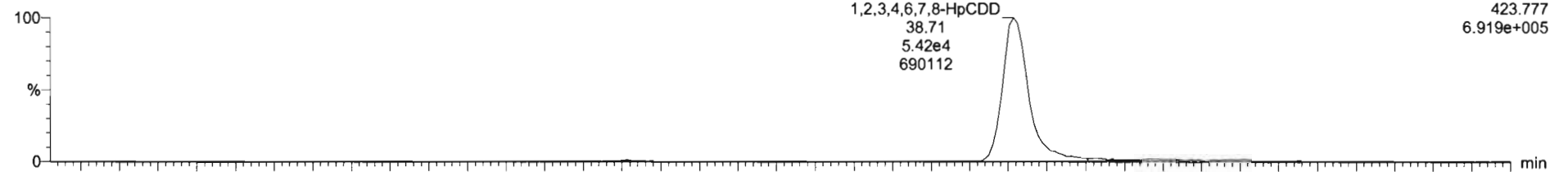
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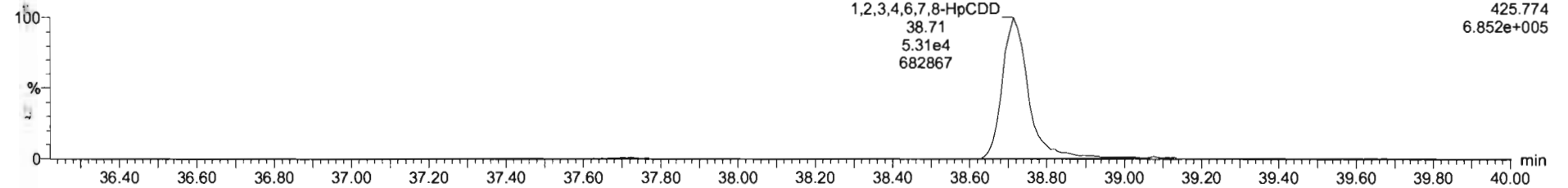
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1,2,3,4,6,7,8-HpCDD

200608R1_2

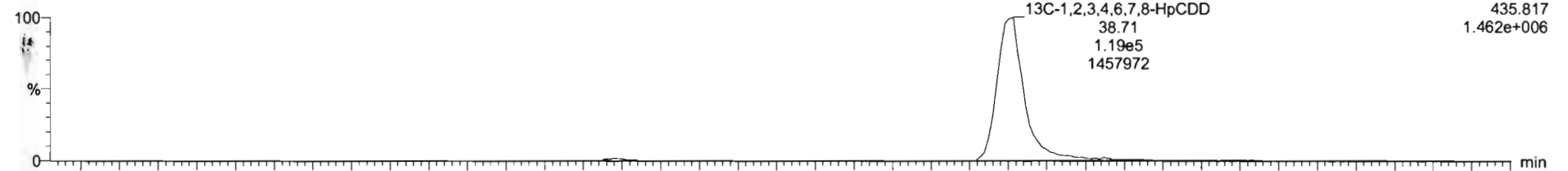


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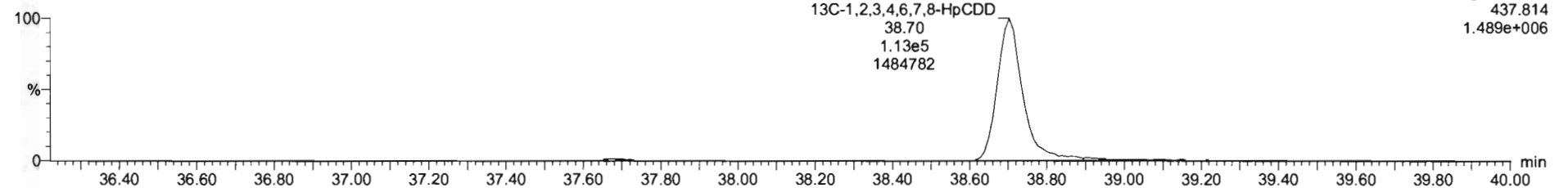


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200608R1_2



200608R1_2

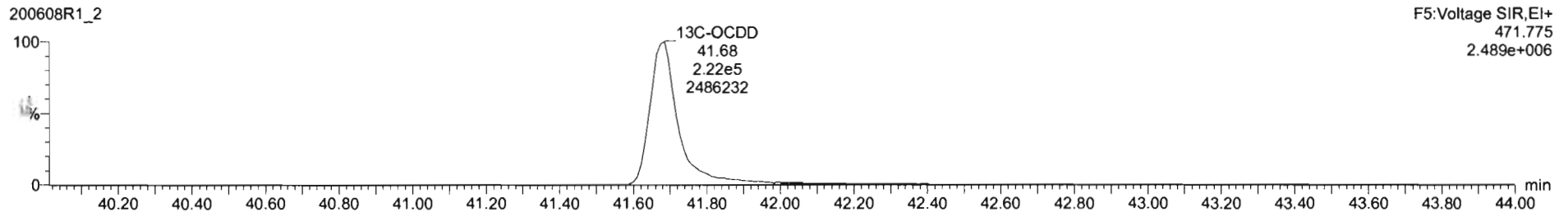
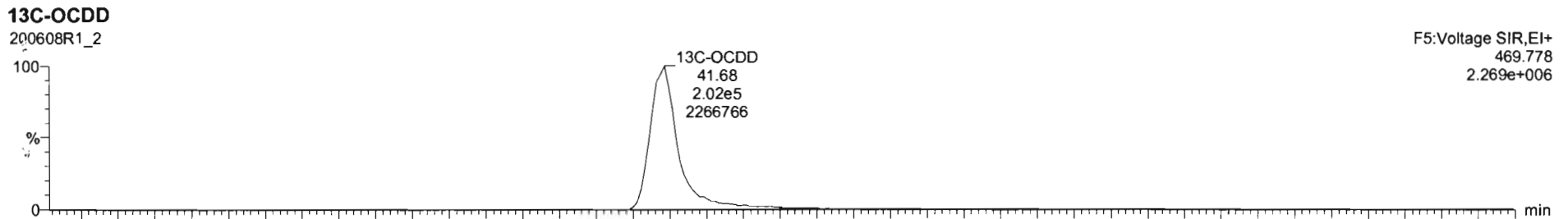
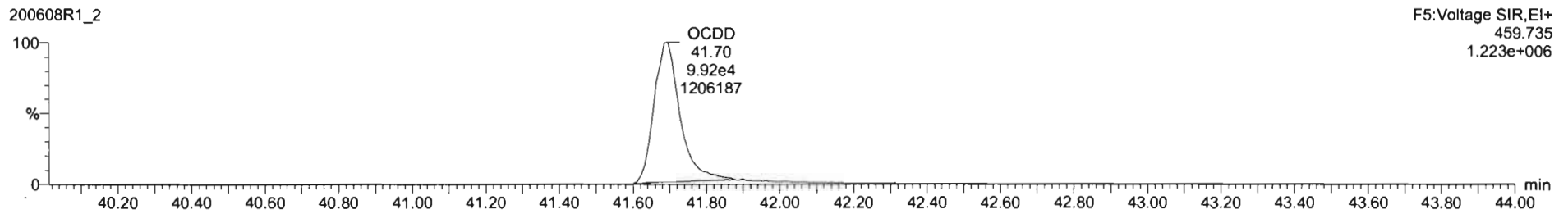
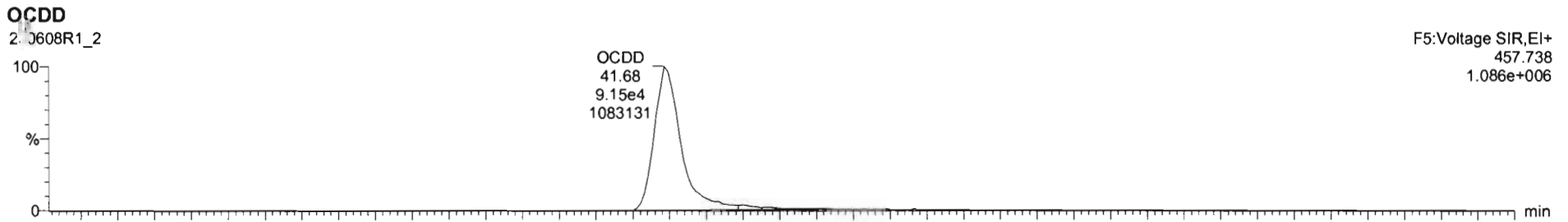


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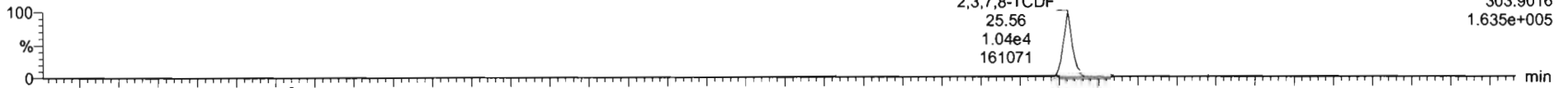
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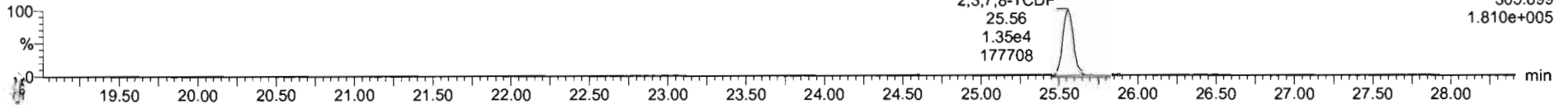
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2,3,7,8-TCDF

200608R1_2

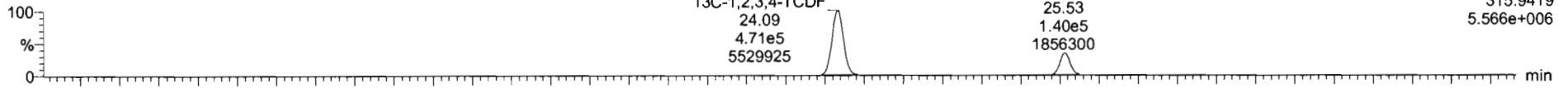


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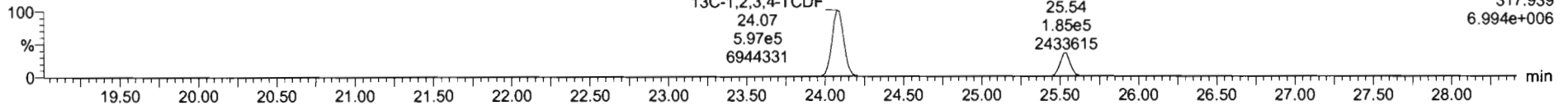


13C-2,3,7,8-TCDF

200608R1_2

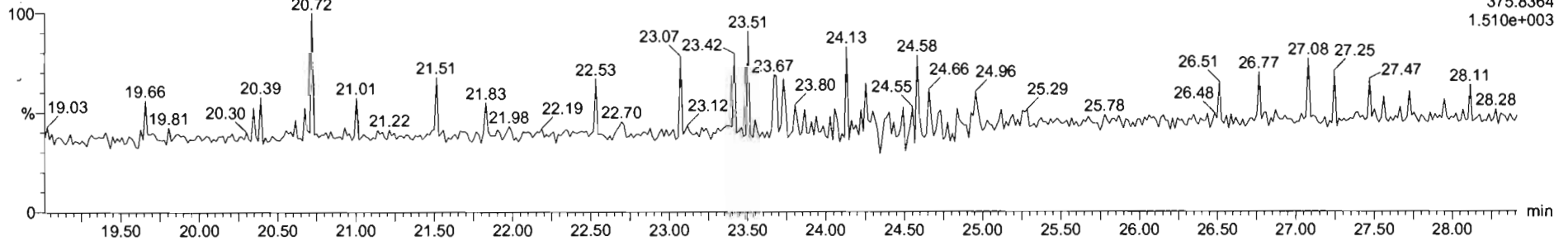


200608R1_2



DPE1

200608R1_2



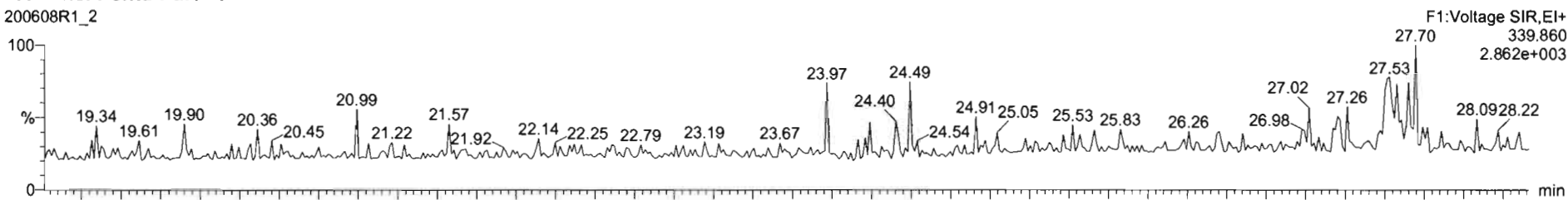
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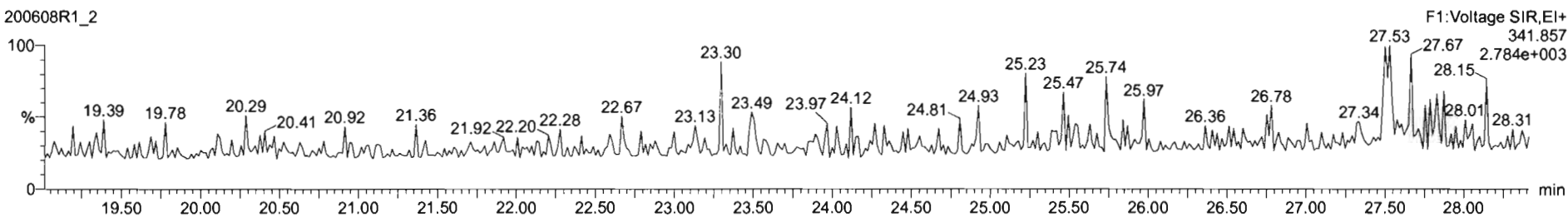
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1st Func. Penta-Furans

200608R1_2

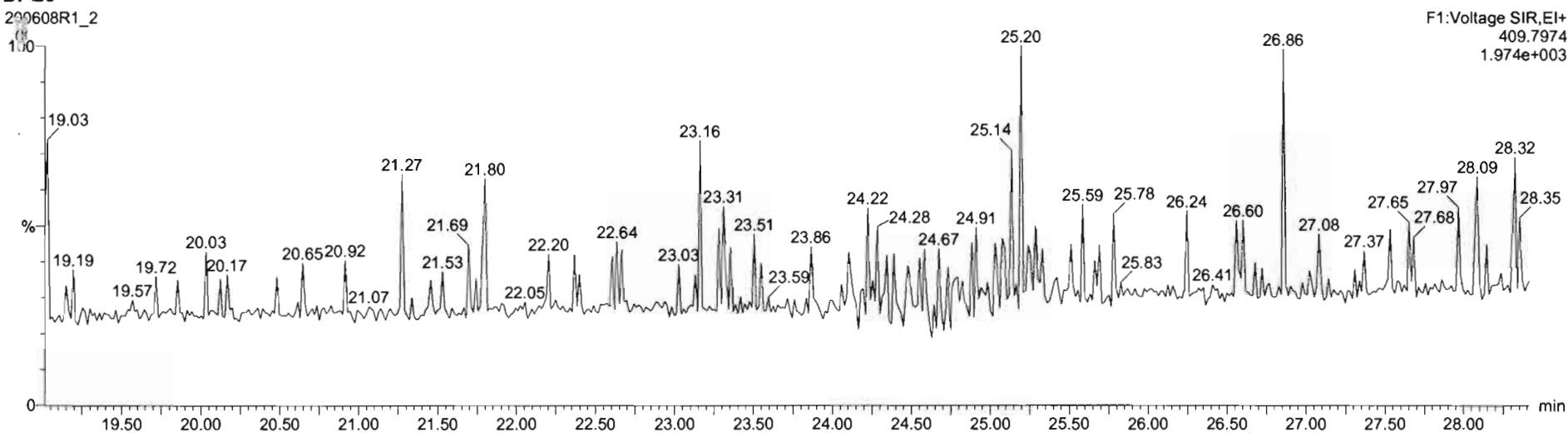


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DPE6

200608R1_2



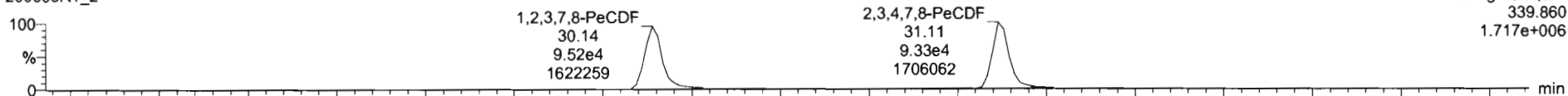
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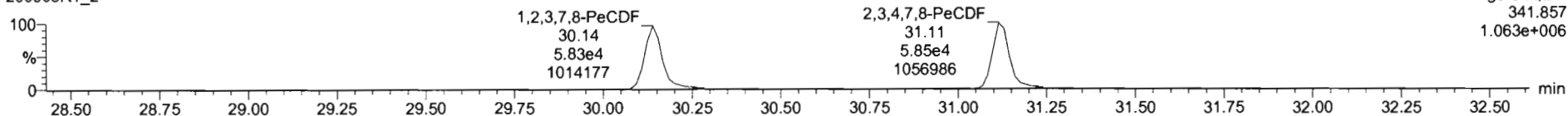
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1,2,3,7,8-PeCDF

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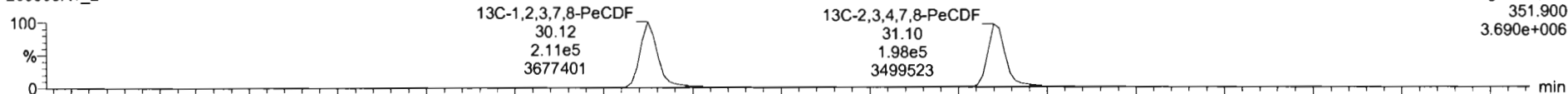


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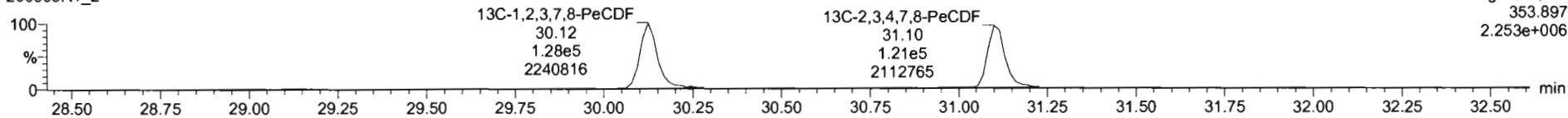


13C-1,2,3,7,8-PeCDF

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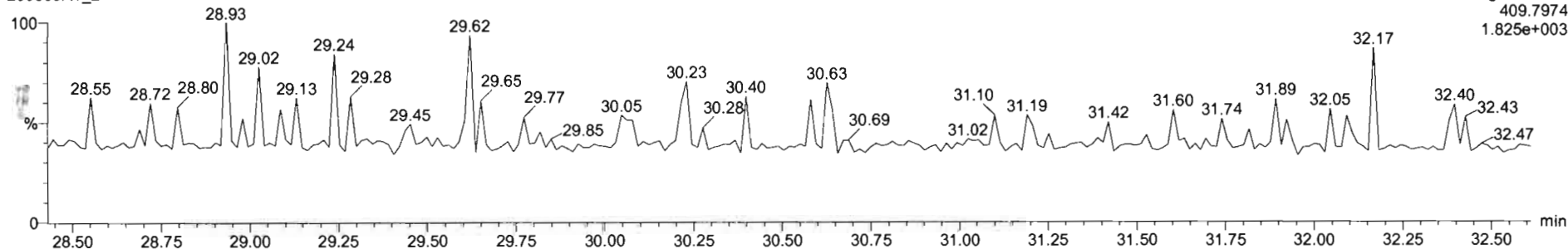


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DPE2

200608R1_2

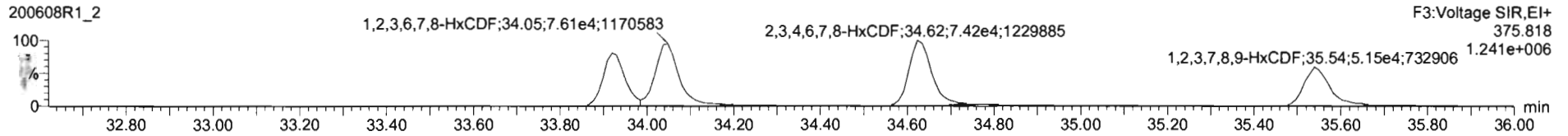
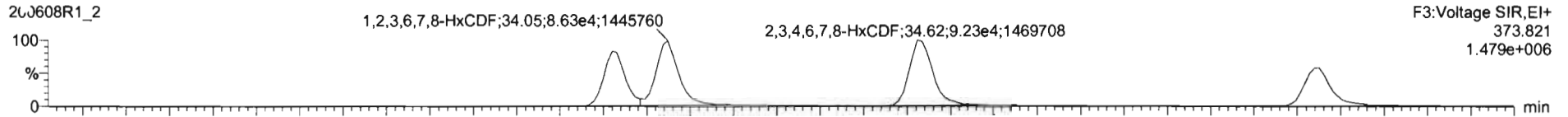


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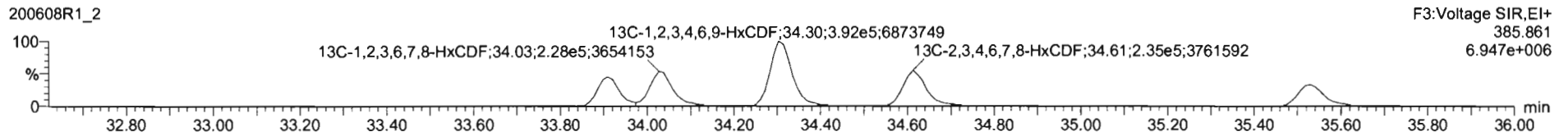
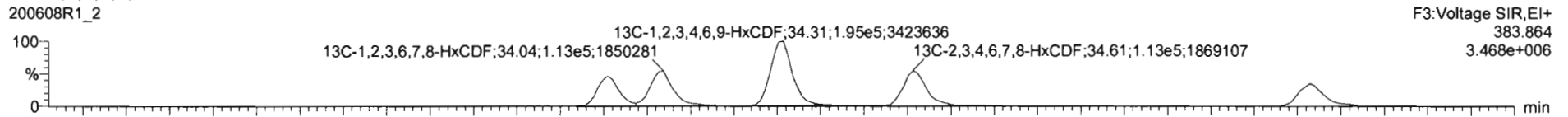
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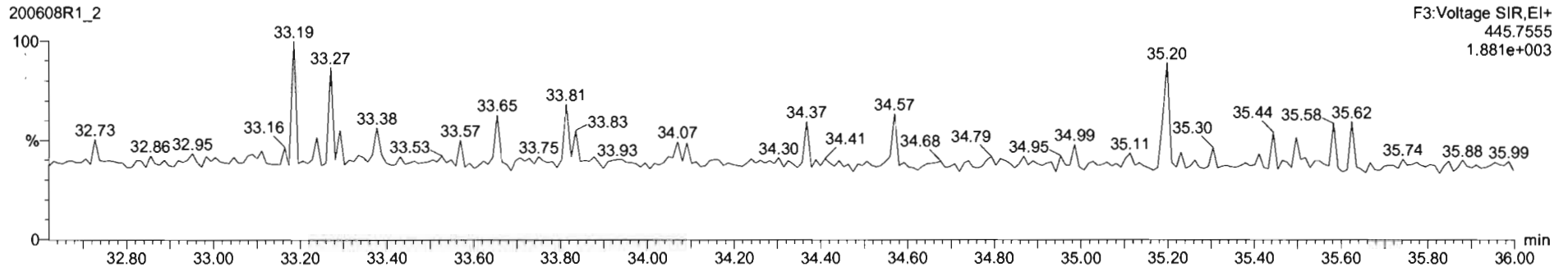
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13C-1,2,3,4,7,8-HxCDF



DPE3



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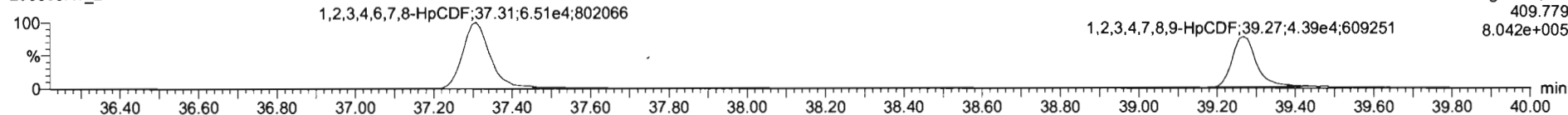
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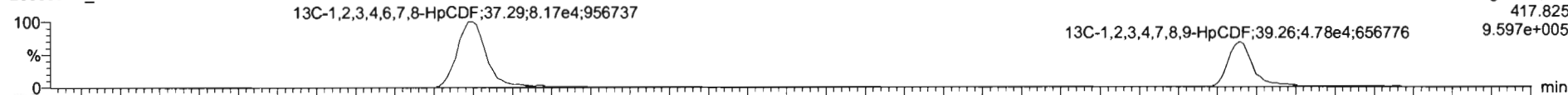


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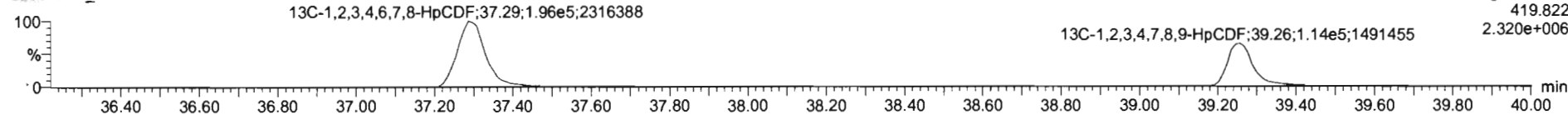


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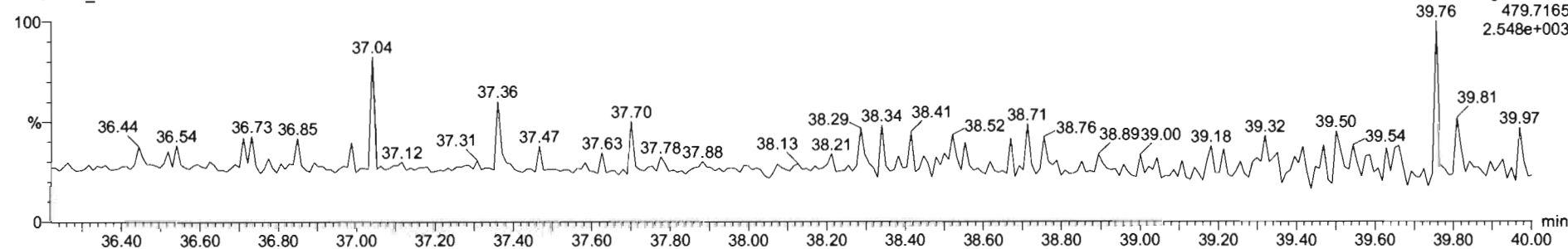


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DPE4

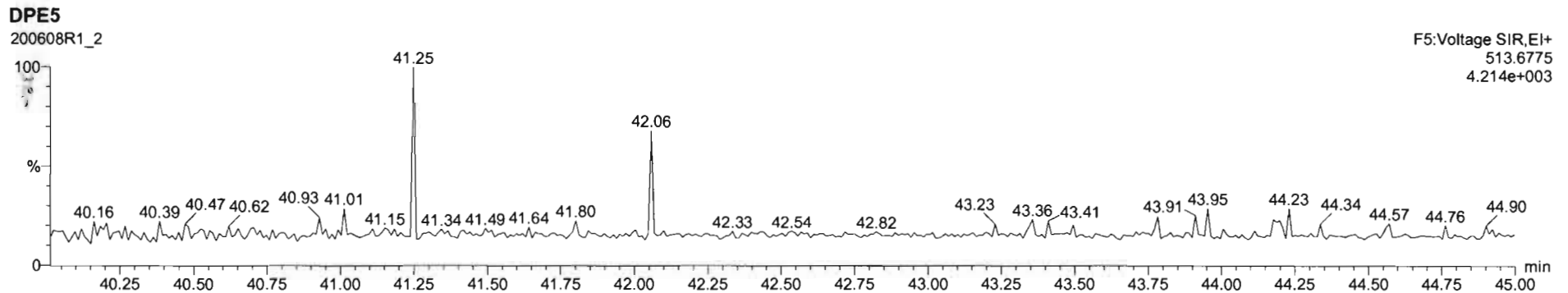
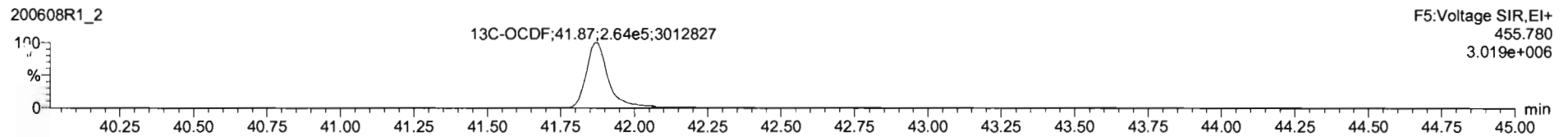
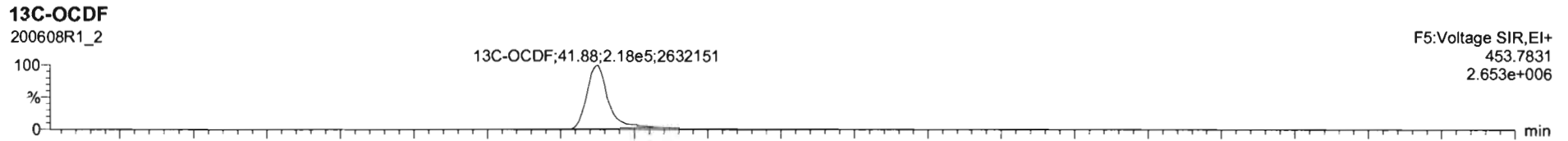
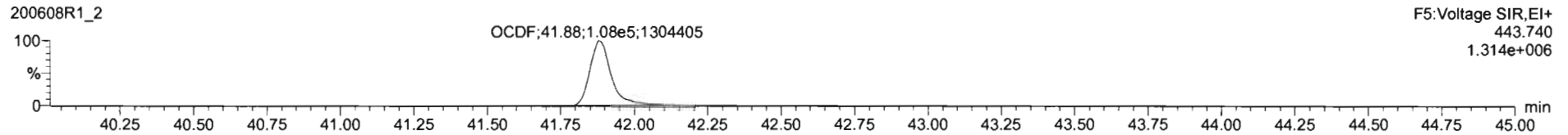
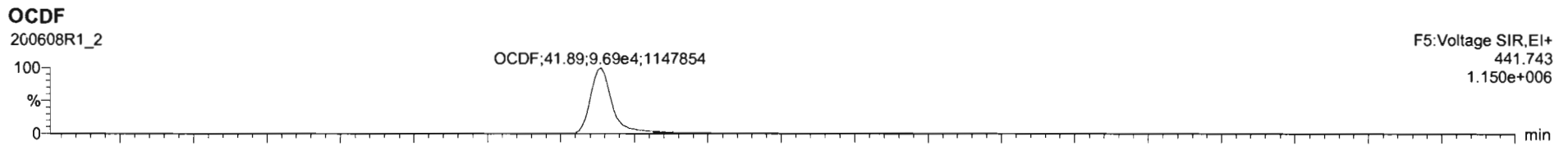
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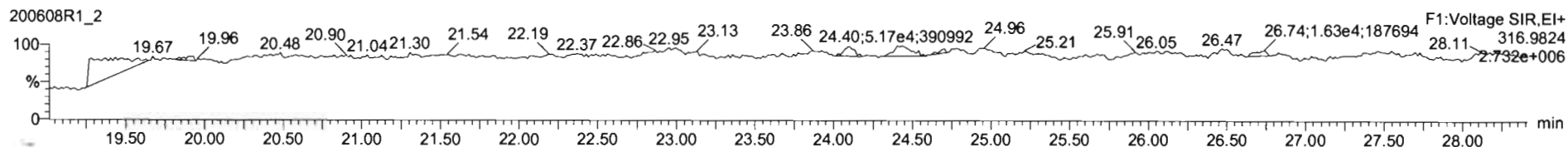
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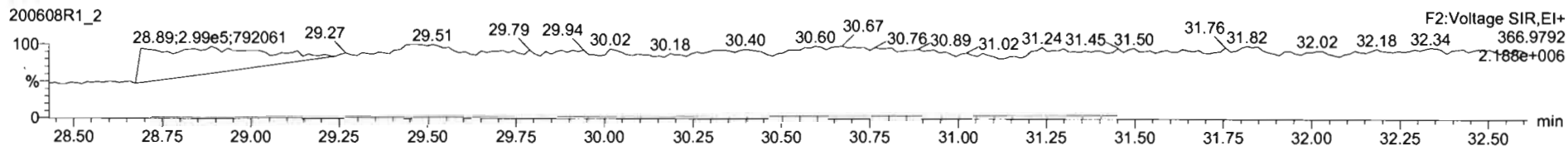
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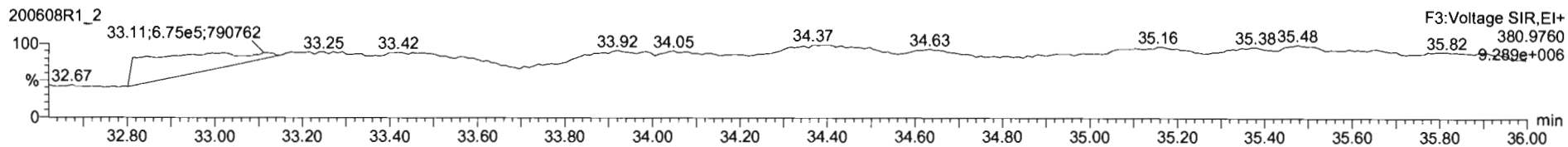
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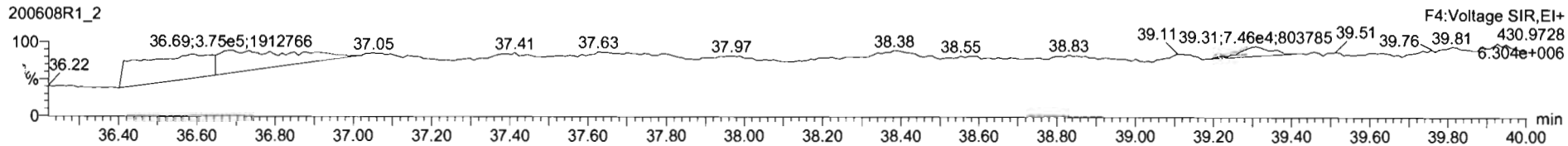
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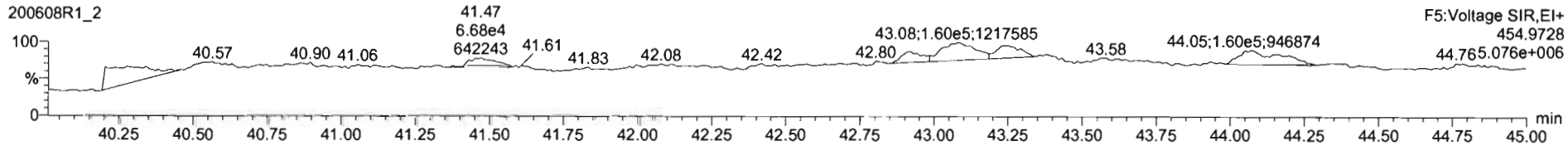
PFK3



PFK4



P.K5



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GRB 06/11/2020

07 06/12/2020

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** SEE DIL.*

Name: 200608R2_10, Date: 09-Jun-2020, Time: 07:09:15, ID: 2001034-01 PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.87e3	0.79	NO	0.888	10.014	26.501	26.50	1.001	1.001	0.80524		0.187	0.805
2	2 1,2,3,7,8-PeCDD	4.70e3	0.62	NO	0.908	10.014	31.457	31.45	1.001	1.000	2.6485		0.326	2.65
3	3 1,2,3,4,7,8-HxCDD	1.37e4	1.28	NO	1.03	10.014	34.825	34.84	1.000	1.001	9.4101		0.895	9.41
4	4 1,2,3,6,7,8-HxCDD	8.45e4	1.23	NO	0.892	10.014	34.921	34.94	1.000	1.001	53.079		0.961	53.1
5	5 1,2,3,7,8,9-HxCDD	3.56e4	1.35	NO	0.887	10.014	35.220	35.22	1.000	1.000	24.075		1.05	24.1
6	6 1,2,3,4,6,7,8-HpCDD	3.41e6	0.97	NO	0.864	10.014	38.757	38.77	1.000	1.001	3110.0 <i>EX</i>		3.15	3110 <i>*</i>
7	7 OCDD	9.11e6	0.89	NO	0.914	10.014	41.759	41.78	1.000	1.001	10084 <i>EX</i>		2.95	10100 <i>*</i>
8	8 2,3,7,8-TCDF	1.79e4	0.72	NO	0.751	10.014	25.596	25.60	1.001	1.001	7.3688 <i>OK</i>		0.210	7.37
9	9 1,2,3,7,8-PeCDF	2.58e4	1.59	NO	0.893	10.014	30.190	30.17	1.001	1.000	9.5634		0.281	9.56
10	10 2,3,4,7,8-PeCDF	2.31e4	1.53	NO	0.935	10.014	31.161	31.18	1.001	1.001	8.7256		0.259	8.73
11	11 1,2,3,4,7,8-HxCDF	2.65e4	1.22	NO	0.884	10.014	33.942	33.95	1.000	1.000	15.384		0.281	15.4
12	12 1,2,3,6,7,8-HxCDF	8.57e3	1.18	NO	0.889	10.014	34.069	34.08	1.000	1.001	4.5007		0.284	4.50
13	13 2,3,4,6,7,8-HxCDF	5.90e3	1.20	NO	0.934	10.014	34.679	34.67	1.001	1.001	3.2569		0.305	3.26
14	14 1,2,3,7,8,9-HxCDF	2.99e3	1.21	NO	0.871	10.014	35.571	35.61	1.000	1.001	2.1709		0.445	2.17
15	15 1,2,3,4,6,7,8-HpCDF	1.24e5	0.99	NO	0.873	10.014	37.365	37.35	1.001	1.001	106.78		0.912	107
16	16 1,2,3,4,7,8,9-HpCDF	4.53e3	1.07	NO	1.01	10.014	39.288	39.31	1.000	1.001	4.7954		0.985	4.80
17	17 OCDF	2.17e5	0.90	NO	0.806	10.014	41.951	41.96	1.000	1.000	252.14		1.36	252
18	18 13C-2,3,7,8-TCDD	5.21e5	0.79	NO	1.16	10.014	26.491	26.47	1.026	1.026	116.78	58.5	0.321	
19	19 13C-1,2,3,7,8-PeCDD	3.90e5	0.62	NO	0.849	10.014	31.674	31.43	1.227	1.218	119.14	59.7	0.305	
20	20 13C-1,2,3,4,7,8-HxCDD	2.81e5	1.27	NO	0.779	10.014	34.819	34.81	1.014	1.014	116.06	58.1	0.360	
21	21 13C-1,2,3,6,7,8-HxCDD	3.56e5	1.26	NO	1.02	10.014	34.932	34.92	1.017	1.017	112.63	56.4	0.276	
22	22 13C-1,2,3,7,8,9-HxCDD	3.33e5	1.30	NO	0.903	10.014	35.204	35.21	1.025	1.025	118.43	59.3	0.311	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.53e5	1.07	NO	0.689	10.014	38.726	38.74	1.128	1.128	118.07	59.1	0.445	
24	24 13C-OCDD	3.95e5	0.88	NO	0.652	10.014	41.748	41.76	1.216	1.216	194.78	48.8	0.579	<i>*</i>
25	25 13C-2,3,7,8-TCDF	6.47e5	0.79	NO	1.06	10.014	25.534	25.57	0.989	0.991	107.42	53.8	0.434	
26	26 13C-1,2,3,7,8-PeCDF	6.03e5	1.59	NO	0.838	10.014	30.058	30.17	1.165	1.169	126.48	63.3	0.407	
27	27 13C-2,3,4,7,8-PeCDF	5.66e5	1.59	NO	0.817	10.014	31.011	31.13	1.202	1.206	121.87	61.0	0.417	
28	28 13C-1,2,3,4,7,8-HxCDF	3.89e5	0.50	NO	1.01	10.014	33.950	33.94	0.989	0.989	124.23	62.2	0.591	
29	29 13C-1,2,3,6,7,8-HxCDF	4.28e5	0.51	NO	1.17	10.014	34.074	34.06	0.992	0.992	117.77	59.0	0.510	
30	30 13C-2,3,4,6,7,8-HxCDF	3.88e5	0.52	NO	1.02	10.014	34.647	34.64	1.009	1.009	121.91	61.0	0.583	
31	31 13C-1,2,3,7,8,9-HxCDF	3.16e5	0.49	NO	0.860	10.014	35.547	35.57	1.035	1.036	118.13	59.1	0.693	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.65e5	0.42	NO	0.774	10.014	37.295	37.33	1.086	1.087	109.98	55.1	0.478	
33	13C-1,2,3,4,7,8,9-HpCDF	1.86e5	0.43	NO	0.521	10.014	39.324	39.29	1.145	1.144	114.83	57.5	0.711	
34	13C-OCDF	4.26e5	0.85	NO	0.746	10.014	41.920	41.95	1.221	1.222	183.45	45.9	0.427	
35	37Cl-2,3,7,8-TCDD	2.06e5			1.04	10.014	26.522	26.48	1.028	1.026	51.546	64.5	0.0649	
36	13C-1,2,3,4-TCDD	7.71e5	0.80	NO	1.00	10.014	25.890	25.81	1.000	1.000	199.73	100	0.371	
37	13C-1,2,3,4-TCDF	1.14e6	0.80	NO	1.00	10.014	24.360	24.13	1.000	1.000	199.73	100	0.459	
38	13C-1,2,3,4,6,9-HxCDF	6.21e5	0.51	NO	1.00	10.014	34.420	34.33	1.000	1.000	199.73	100	0.595	
39	Total Tetra-Dioxins				0.888	10.014	24.620		0.000		22.851		0.187	25.7
40	Total Penta-Dioxins				0.908	10.014	29.960		0.000		85.569		0.326	97.5
41	Total Hexa-Dioxins				0.892	10.014	33.635		0.000		1227.4		1.01	1230
42	Total Hepta-Dioxins				0.864	10.014	37.640		0.000		6685.2		3.15	6690
43	Total Tetra-Furans				0.751	10.014	23.610		0.000		62.453		0.210	62.5 P
44	1st Func. Penta-Furans				0.893	10.014	27.580		0.000		34.877		0.0666	34.9
45	Total Penta-Furans				0.893	10.014	29.275		0.000		53.355		0.276	54.1 P
46	Total Hexa-Furans				0.934	10.014	33.555		0.000		102.61		0.308	103
47	Total Hepta-Furans				0.873	10.014	37.835		0.000		346.17		1.01	346

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

Name: 200608R2_10, Date: 09-Jun-2020, Time: 07:09:15, ID: 2001034-01 PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.50	4.013e4	5.271e4	4.080e3	4.970e3	0.82	NO	9.050e3	3.9038	3.9038	0.187
2	Total Tetra-Dioxins	22.91	1.709e4	2.267e4	1.722e3	2.204e3	0.78	NO	3.926e3	1.6936	1.6936	0.187
3	Total Tetra-Dioxins	23.43	1.860e4	2.095e4	1.491e3	2.023e3	0.74	NO	3.514e3	1.5157	1.5157	0.187
4	Total Tetra-Dioxins	24.28	7.545e3	1.089e4	6.809e2	7.961e2	0.86	NO	1.477e3	0.63714	0.63714	0.187
5	Total Tetra-Dioxins	24.57	3.618e4	5.238e4	2.952e3	3.766e3	0.78	NO	0.000e0	0.00000	2.8977	0.187
6	Total Tetra-Dioxins	24.63	2.489e4	2.237e4	1.186e3	1.346e3	0.88	NO	2.532e3	1.0921	1.0921	0.187
7	Total Tetra-Dioxins	24.78	2.592e4	3.025e4	1.986e3	2.389e3	0.83	NO	4.375e3	1.8873	1.8873	0.187
8	Total Tetra-Dioxins	25.00	1.481e4	1.562e4	1.138e3	1.295e3	0.88	NO	2.433e3	1.0497	1.0497	0.187
9	Total Tetra-Dioxins	25.24	9.950e3	1.509e4	7.541e2	1.087e3	0.69	NO	1.841e3	0.79428	0.79428	0.187
10	Total Tetra-Dioxins	25.42	1.833e4	2.412e4	1.350e3	1.831e3	0.74	NO	3.181e3	1.3723	1.3723	0.187
11	Total Tetra-Dioxins	25.80	1.713e4	2.092e4	1.382e3	1.717e3	0.80	NO	3.099e3	1.3370	1.3370	0.187
12	Total Tetra-Dioxins	25.94	1.430e4	1.468e4	9.143e2	1.139e3	0.80	NO	2.054e3	0.88590	0.88590	0.187
13	Total Tetra-Dioxins	26.23	2.357e4	2.769e4	2.425e3	2.800e3	0.87	NO	5.225e3	2.2538	2.2538	0.187
14	Total Tetra-Dioxins	26.33	2.295e4	2.559e4	1.416e3	1.789e3	0.79	NO	3.205e3	1.3827	1.3827	0.187
15	2,3,7,8-TCDD	26.50	1.053e4	1.374e4	8.235e2	1.043e3	0.79	NO	1.867e3	0.80524	0.80524	0.187
16	Total Tetra-Dioxins	26.83	1.728e4	2.353e4	1.207e3	1.547e3	0.78	NO	2.754e3	1.1881	1.1881	0.187
17	Total Tetra-Dioxins	26.95	4.438e3	6.443e3	3.649e2	4.609e2	0.79	NO	8.259e2	0.35627	0.35627	0.187
18	Total Tetra-Dioxins	27.44	1.382e4	1.554e4	7.004e2	9.135e2	0.77	NO	1.614e3	0.69620	0.69620	0.187

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Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	2.121e5	3.408e5	1.735e4	2.756e4	0.63	NO	4.491e4	25.302	25.302	0.326
2	Total Penta-Dioxins	29.71	1.441e5	2.514e5	8.959e3	1.467e4	0.61	NO	2.363e4	13.314	13.314	0.326
3	Total Penta-Dioxins	30.22	9.495e4	1.420e5	5.876e3	8.615e3	0.68	NO	1.449e4	8.1647	8.1647	0.326
4	Total Penta-Dioxins	30.38	7.437e4	1.269e5	3.402e3	5.798e3	0.59	NO	9.200e3	5.1833	5.1833	0.326
5	Total Penta-Dioxins	30.49	6.391e4	1.091e5	4.031e3	6.276e3	0.64	NO	1.031e4	5.8076	5.8076	0.326
6	Total Penta-Dioxins	30.70	1.867e5	3.227e5	7.862e3	1.335e4	0.59	NO	0.000e0	0.00000	11.952	0.326
7	Total Penta-Dioxins	30.73	2.221e5	3.603e5	9.629e3	1.522e4	0.63	NO	2.485e4	14.003	14.003	0.326
8	Total Penta-Dioxins	31.02	2.736e4	5.930e4	1.876e3	3.198e3	0.59	NO	5.074e3	2.8589	2.8589	0.326
9	1,2,3,7,8-PeCDD	31.45	3.419e4	5.707e4	1.794e3	2.907e3	0.62	NO	4.701e3	2.6485	2.6485	0.326
10	Total Penta-Dioxins	31.54	5.970e4	1.023e5	3.436e3	6.244e3	0.55	NO	9.680e3	5.4539	5.4539	0.326
11	Total Penta-Dioxins	31.85	3.199e4	5.118e4	1.820e3	3.208e3	0.57	NO	5.029e3	2.8334	2.8334	0.326

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	8.704e6	7.071e6	4.348e5	3.519e5	1.24	NO	7.867e5	544.56	544.56	1.01
2	Total Hexa-Dioxins	33.88	9.808e5	7.947e5	5.439e4	4.447e4	1.22	NO	9.887e4	68.437	68.437	1.01
3	Total Hexa-Dioxins	34.14	4.793e6	3.792e6	3.470e5	2.796e5	1.24	NO	6.266e5	433.71	433.71	1.01
4	Total Hexa-Dioxins	34.25	5.931e5	5.013e5	3.990e4	3.297e4	1.21	NO	7.287e4	50.441	50.441	1.01
5	1,2,3,4,7,8-HxCDD	34.84	1.351e5	1.230e5	7.694e3	6.001e3	1.28	NO	1.370e4	9.4101	9.4101	0.895
6	1,2,3,6,7,8-HxCDD	34.94	7.239e5	5.839e5	4.664e4	3.783e4	1.23	NO	8.448e4	53.079	53.079	0.961
7	Total Hexa-Dioxins	35.12	5.667e5	4.316e5	3.529e4	2.778e4	1.27	NO	6.307e4	43.656	43.656	1.01
8	1,2,3,7,8,9-HxCDD	35.22	2.739e5	2.147e5	2.042e4	1.514e4	1.35	NO	3.556e4	24.075	24.075	1.05

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.74	2.415e7	2.385e7	1.979e6	1.936e6	1.02	NO	3.915e6	3575.2	3575.2	3.15
2	1,2,3,4,6,7,8-HpCDD	38.77	2.275e7	2.220e7	1.673e6	1.732e6	0.97	NO	3.406e6	3110.0	3110.0	3.15

*SEE DL.

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.36	6.693e3	1.259e4	6.488e2	9.634e2	0.67	NO	1.612e3	0.66239	0.66239	0.210
2	Total Tetra-Furans	20.87	3.651e4	4.467e4	2.582e3	3.623e3	0.71	NO	6.205e3	2.5495	2.5495	0.210
3	Total Tetra-Furans	21.47	1.343e5	1.707e5	1.140e4	1.515e4	0.75	NO	2.654e4	10.905	10.905	0.210
4	Total Tetra-Furans	21.96	1.264e4	1.768e4	1.265e3	1.844e3	0.69	NO	3.109e3	1.2775	1.2775	0.210
5	Total Tetra-Furans	22.07	1.275e4	2.259e4	1.490e3	2.233e3	0.67	NO	3.723e3	1.5298	1.5298	0.210
6	Total Tetra-Furans	22.37	7.996e3	1.236e4	4.689e2	5.900e2	0.79	NO	1.059e3	0.43504	0.43504	0.210
7	Total Tetra-Furans	22.44	5.315e4	6.968e4	5.467e3	7.134e3	0.77	NO	1.260e4	5.1774	5.1774	0.210
8	Total Tetra-Furans	22.95	5.321e4	7.913e4	5.070e3	7.510e3	0.68	NO	1.258e4	5.1687	5.1687	0.210
9	Total Tetra-Furans	23.06	4.134e3	6.984e3	5.055e2	6.362e2	0.79	NO	1.142e3	0.46907	0.46907	0.210
10	Total Tetra-Furans	23.33	8.708e3	1.275e4	9.284e2	1.285e3	0.72	NO	2.213e3	0.90927	0.90927	0.210
11	Total Tetra-Furans	23.74	3.252e3	2.838e3	2.619e2	3.021e2	0.87	NO	5.640e2	0.23172	0.23172	0.210
12	Total Tetra-Furans	23.88	1.553e4	2.105e4	1.196e3	1.489e3	0.80	NO	2.685e3	1.1032	1.1032	0.210
13	Total Tetra-Furans	24.04	7.385e4	8.928e4	6.217e3	8.390e3	0.74	NO	1.461e4	6.0015	6.0015	0.210
14	Total Tetra-Furans	24.13	2.347e4	3.047e4	1.829e3	2.589e3	0.71	NO	4.418e3	1.8154	1.8154	0.210
15	Total Tetra-Furans	24.67	9.611e4	1.240e5	8.146e3	1.071e4	0.76	NO	1.885e4	7.7459	7.7459	0.210
16	Total Tetra-Furans	24.96	9.112e3	1.415e4	6.428e2	9.395e2	0.68	NO	1.582e3	0.65010	0.65010	0.210
17	Total Tetra-Furans	25.17	7.533e3	1.005e4	5.991e2	8.090e2	0.74	NO	1.408e3	0.57856	0.57856	0.210
18	Total Tetra-Furans	25.36	1.305e4	1.305e4	5.915e2	7.019e2	0.84	NO	1.293e3	0.53142	0.53142	0.210
19	Total Tetra-Furans	25.50	2.612e4	3.331e4	1.909e3	2.465e3	0.77	NO	4.374e3	1.7971	1.7971	0.210
20	2,3,7,8-TCDF	25.60	9.915e4	1.331e5	7.514e3	1.042e4	0.72	NO	1.793e4	7.3688	7.3688	0.210
21	Total Tetra-Furans	25.99	1.721e4	2.192e4	1.162e3	1.703e3	0.68	NO	2.865e3	1.1771	1.1771	0.210
22	Total Tetra-Furans	27.14	2.169e4	2.923e4	1.293e3	1.805e3	0.72	NO	3.098e3	1.2729	1.2729	0.210
23	Total Tetra-Furans	27.31	2.460e4	2.973e4	1.589e3	1.946e3	0.82	NO	3.535e3	1.4523	1.4523	0.210
24	Total Tetra-Furans	27.61	3.112e4	2.998e4	1.857e3	2.141e3	0.87	NO	3.998e3	1.6427	1.6427	0.210

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Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
†	1st Func. Penta-Furans	27.59	9.352e5	5.672e5	5.618e4	3.496e4	1.61	NO	9.113e4	34.877	34.877	0.0666

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200608R2\200608R2-10.qld

Last Altered: Thursday, June 11, 2020 3:21:18 PM Pacific Daylight Time

Printed: Thursday, June 11, 2020 3:21:55 PM Pacific Daylight Time

Name: 200608R2_10, Date: 09-Jun-2020, Time: 07:09:15, ID: 2001034-01 PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.02	3.965e4	2.689e4	3.136e3	2.012e3	1.56	NO	5.148e3	1.9702	1.9702	0.276
2	Total Penta-Furans	29.18	2.981e5	2.029e5	2.271e4	1.463e4	1.55	NO	3.734e4	14.291	14.291	0.276
3	Total Penta-Furans	29.24	5.134e4	3.243e4	1.964e3	1.290e3	1.52	NO	3.253e3	1.2451	1.2451	0.276
4	Total Penta-Furans	29.77	1.953e5	1.121e5	1.112e4	7.032e3	1.58	NO	1.815e4	6.9463	6.9463	0.276
5	Total Penta-Furans	29.82	4.312e4	2.201e4	1.152e3	8.481e2	1.36	NO	0.000e0	0.00000	0.76559	0.276
6	Total Penta-Furans	29.99	4.363e4	2.387e4	2.275e3	1.407e3	1.62	NO	3.682e3	1.4091	1.4091	0.276
7	1,2,3,7,8-PeCDF	30.17	2.633e5	1.634e5	1.584e4	9.937e3	1.59	NO	2.578e4	9.5634	9.5634	0.281
8	Total Penta-Furans	30.23	3.746e4	1.873e4	1.177e3	6.796e2	1.73	NO	1.856e3	0.71036	0.71036	0.276
9	Total Penta-Furans	30.46	1.638e5	1.044e5	9.303e3	6.322e3	1.47	NO	1.562e4	5.9797	5.9797	0.276
10	Total Penta-Furans	31.04	1.874e4	8.806e3	7.712e2	5.357e2	1.44	NO	1.307e3	0.50017	0.50017	0.276
11	2,3,4,7,8-PeCDF	31.18	2.092e5	1.383e5	1.399e4	9.136e3	1.53	NO	2.313e4	8.7256	8.7256	0.259
12	Total Penta-Furans	31.21	1.066e5	6.045e4	2.444e3	1.489e3	1.64	NO	3.933e3	1.5051	1.5051	0.276
13	Total Penta-Furans	32.09	1.143e4	1.083e4	8.338e2	4.970e2	1.68	NO	1.331e3	0.50928	0.50928	0.276

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	5.196e4	4.473e4	3.986e3	3.283e3	1.21	NO	7.269e3	4.0887	4.0887	0.308
2	Total Hexa-Furans	32.92	1.773e4	1.348e4	5.666e2	3.272e2	1.73	YES	0.000e0	0.00000	0.41229	0.308
3	Total Hexa-Furans	33.00	7.060e5	5.685e5	2.364e4	1.889e4	1.25	NO	4.253e4	23.923	23.923	0.308
4	Total Hexa-Furans	33.31	1.226e4	1.298e4	6.534e2	5.894e2	1.11	NO	1.243e3	0.69908	0.69908	0.308
5	Total Hexa-Furans	33.49	9.989e5	8.049e5	4.674e4	3.822e4	1.22	NO	8.496e4	47.787	47.787	0.308
6	Total Hexa-Furans	33.85	1.304e4	8.388e3	4.936e2	3.902e2	1.27	NO	8.838e2	0.49715	0.49715	0.308
7	1,2,3,4,7,8-HxCDF	33.95	2.731e5	2.177e5	1.460e4	1.193e4	1.22	NO	2.653e4	15.384	15.384	0.281
8	1,2,3,6,7,8-HxCDF	34.08	7.505e4	6.231e4	4.634e3	3.934e3	1.18	NO	8.568e3	4.5007	4.5007	0.284
9	2,3,4,6,7,8-HxCDF	34.67	5.993e4	4.798e4	3.215e3	2.688e3	1.20	NO	5.903e3	3.2569	3.2569	0.305
10	1,2,3,7,8,9-HxCDF	35.61	2.779e4	2.398e4	1.636e3	1.354e3	1.21	NO	2.990e3	2.1709	2.1709	0.445
11	Total Hexa-Furans	35.65	1.813e4	1.307e4	3.079e2	2.334e2	1.32	NO	5.413e2	0.30448	0.30448	0.308

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200608R2\200608R2-10.qld

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Printed: Thursday, June 11, 2020 3:21:55 PM Pacific Daylight Time

Name: 200608R2_10, Date: 09-Jun-2020, Time: 07:09:15, ID: 2001034-01 PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.35	8.228e5	8.117e5	6.166e4	6.209e4	0.99	NO	1.237e5	106.78	106.78	0.912
2	Total Hepta-Furans	37.74	1.470e4	1.531e4	1.090e3	1.138e3	0.96	NO	2.228e3	2.2588	2.2588	1.01
3	Total Hepta-Furans	37.97	1.465e6	1.429e6	1.151e5	1.141e5	1.01	NO	2.292e5	232.34	232.34	1.01
4	1,2,3,4,7,8,9-HpCDF	39.31	3.531e4	3.525e4	2.335e3	2.191e3	1.07	NO	4.526e3	4.7954	4.7954	0.985

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Printed: Tuesday, June 09, 2020 09:12:13 Pacific Daylight Time

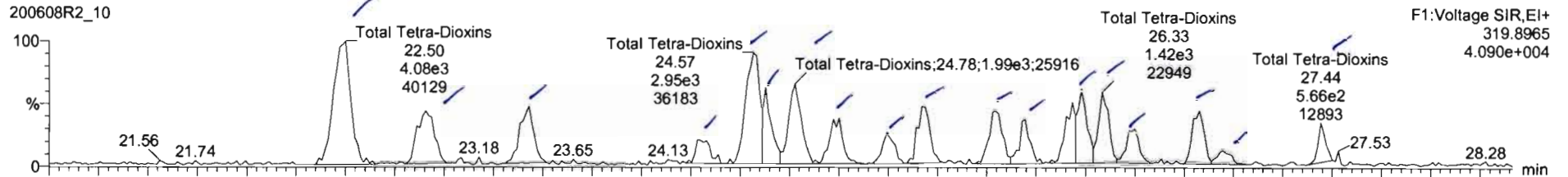
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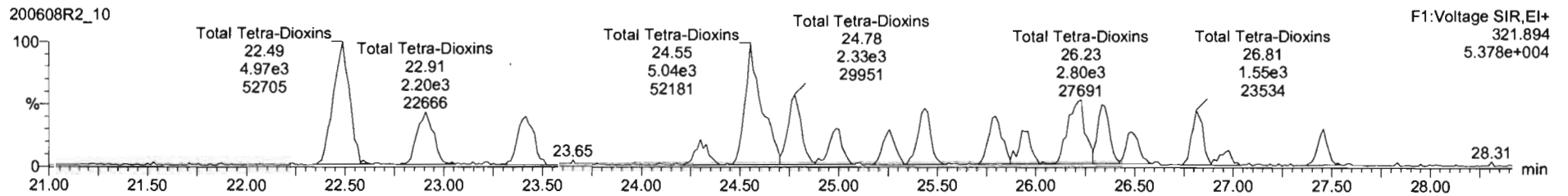
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2,3,7,8-TCDD

200608R2_10

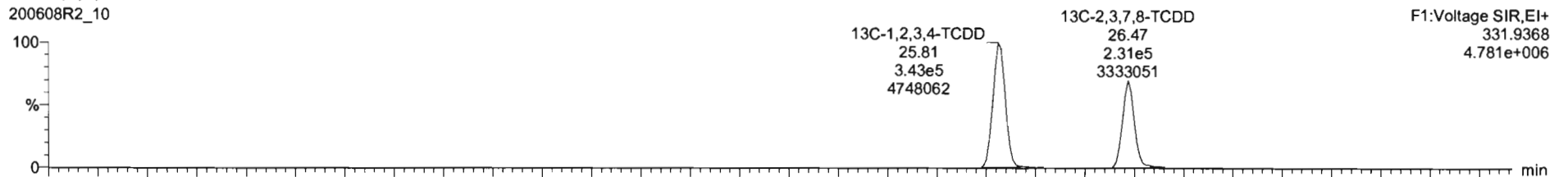


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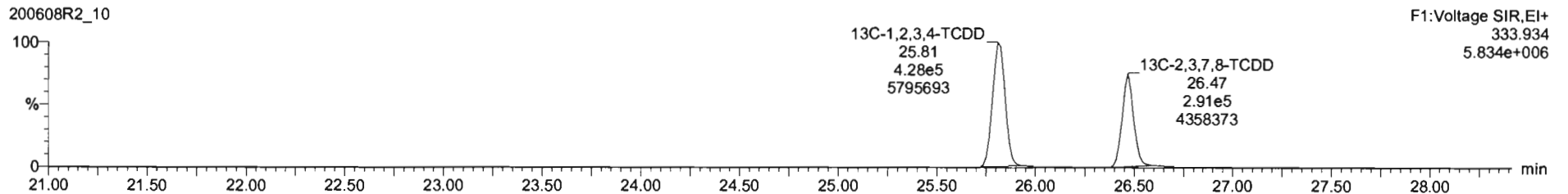


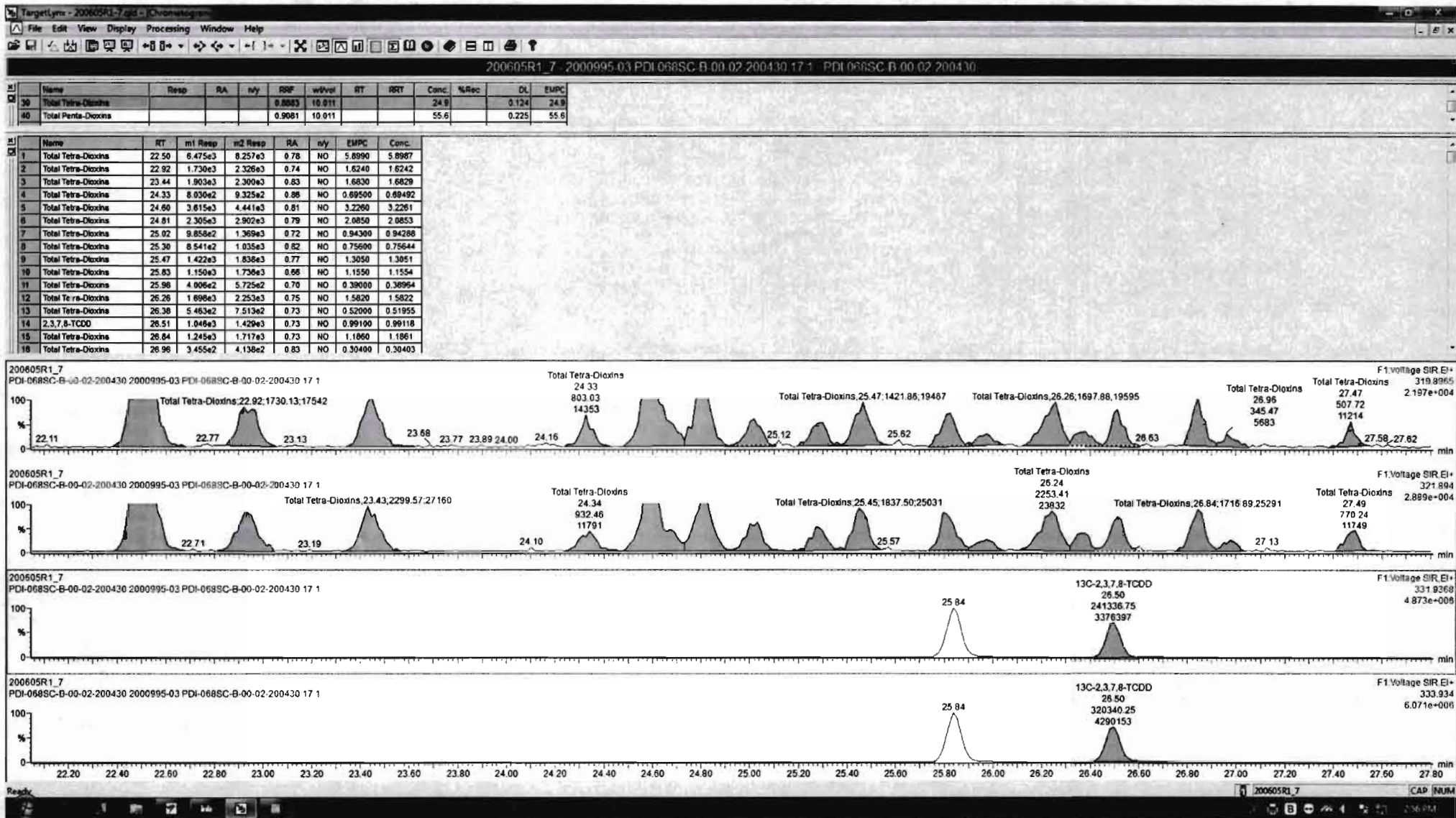
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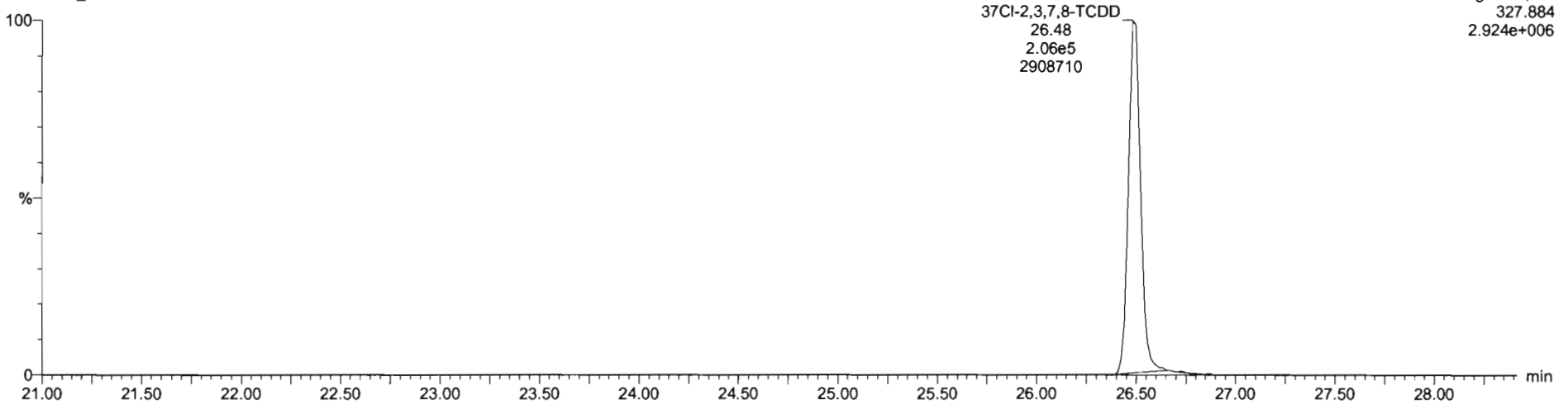
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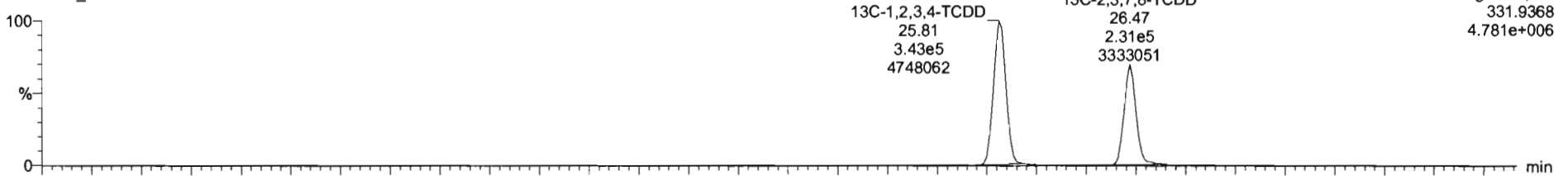
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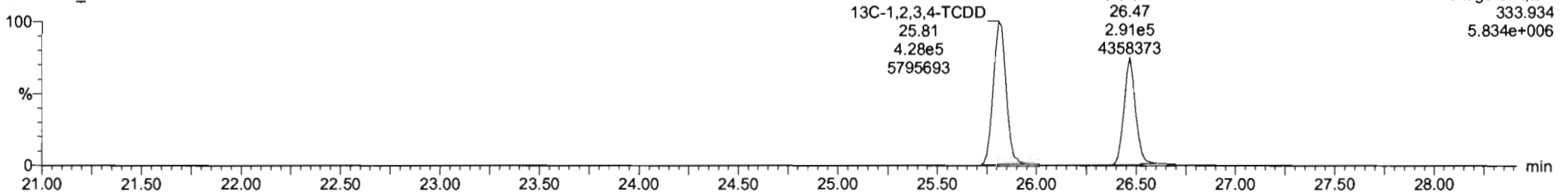


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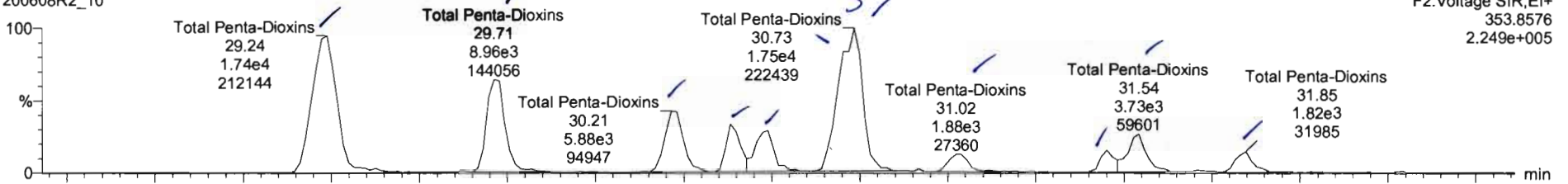
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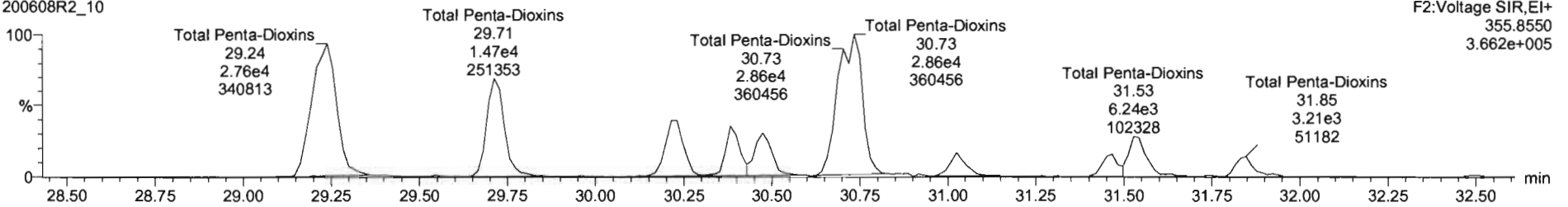
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1,2,3,7,8-PeCDD

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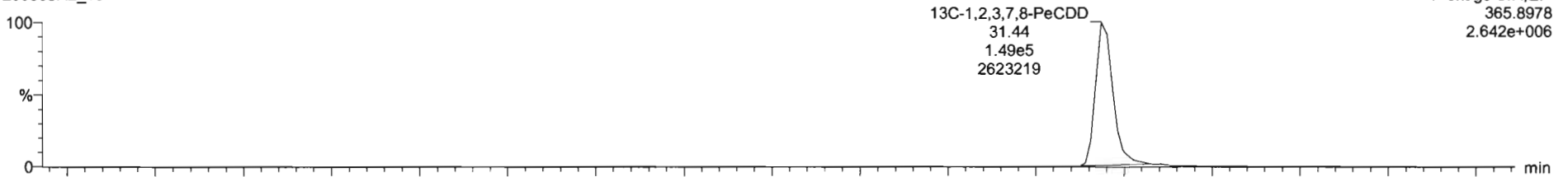


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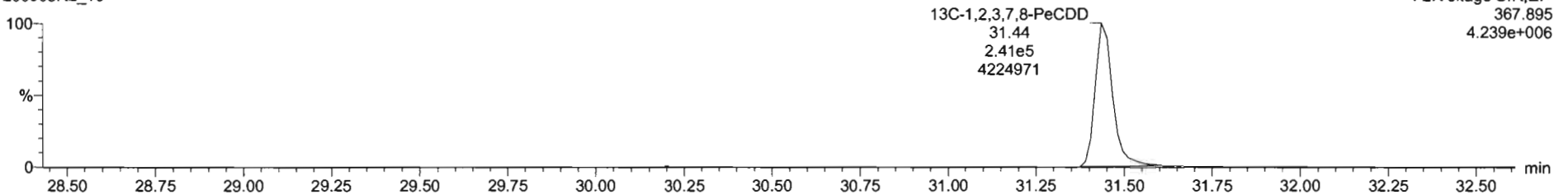


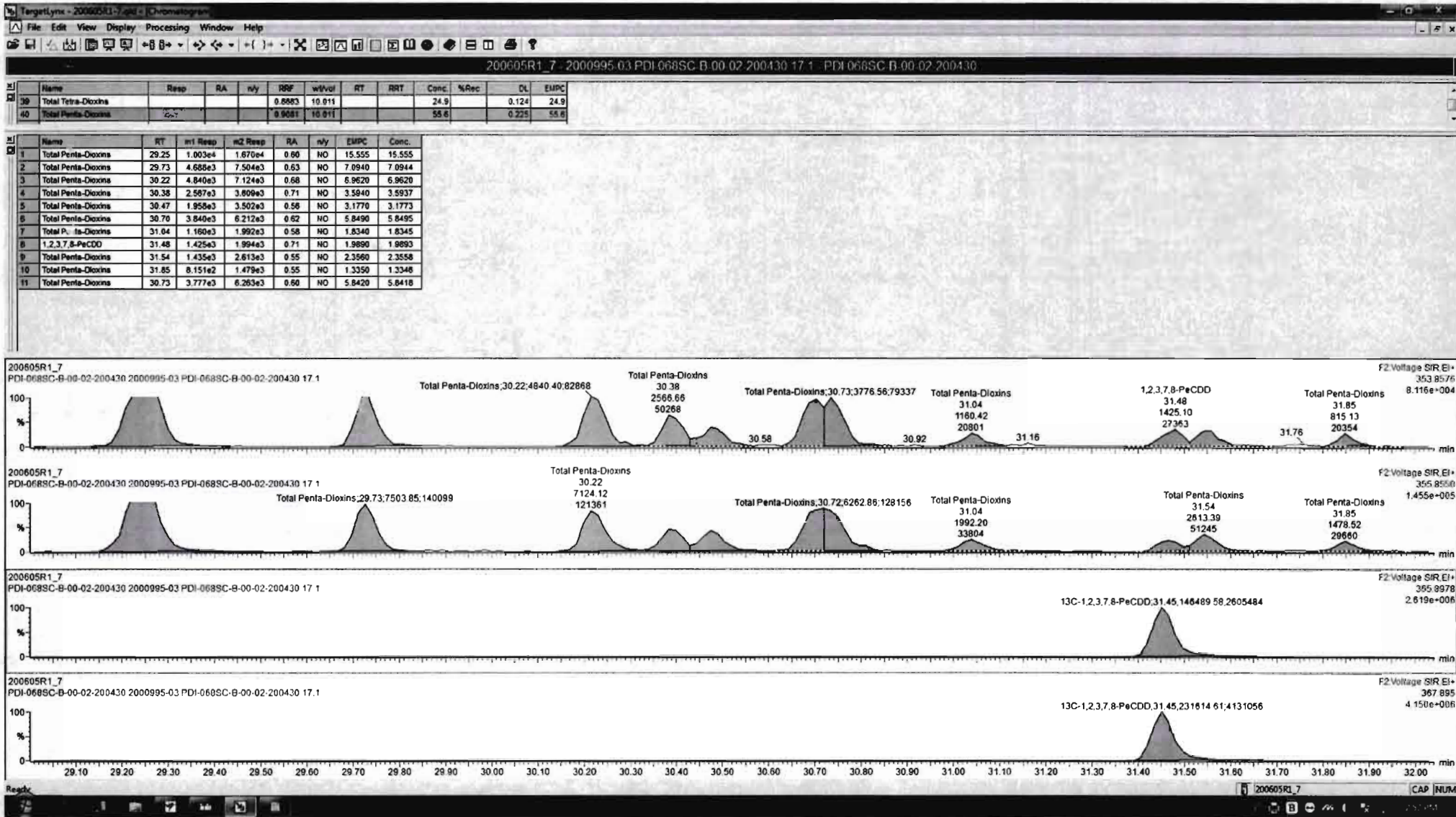
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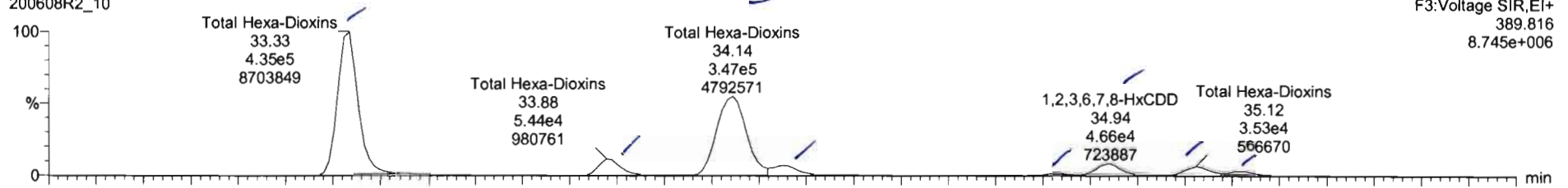
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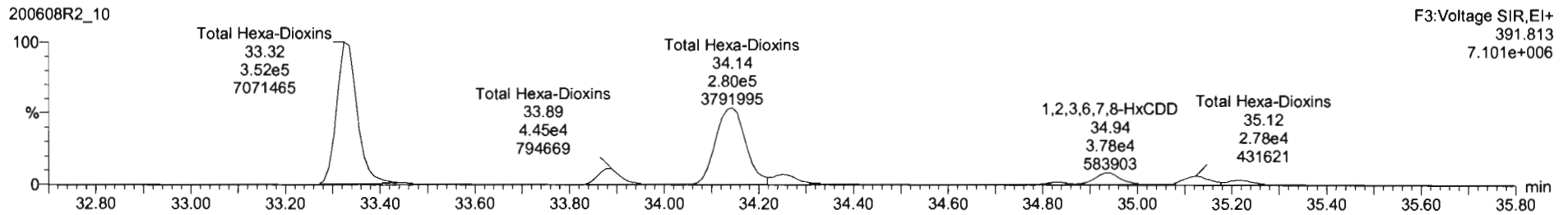
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1,2,3,4,7,8-HxCDD

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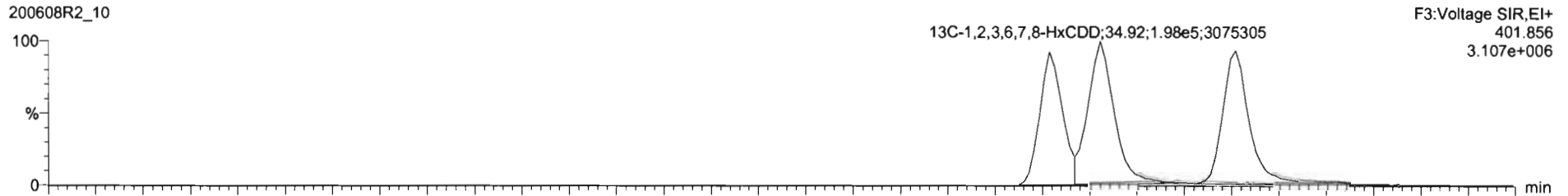


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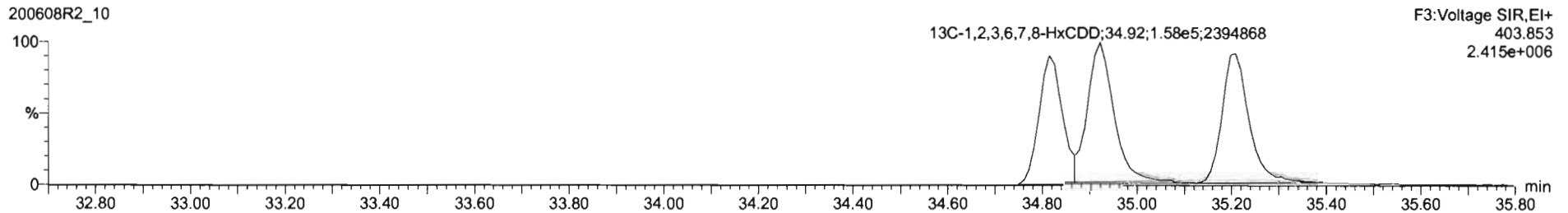


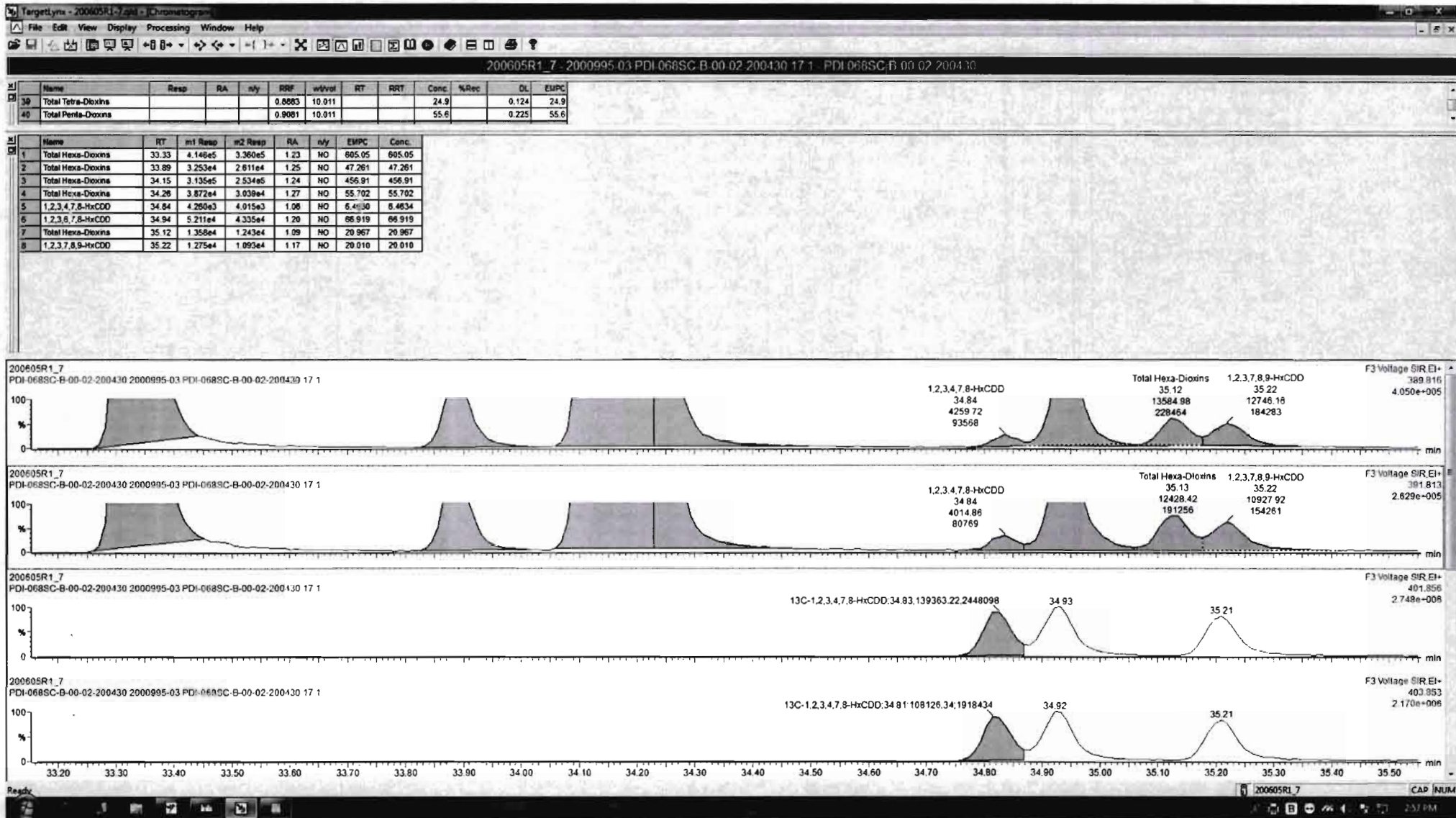
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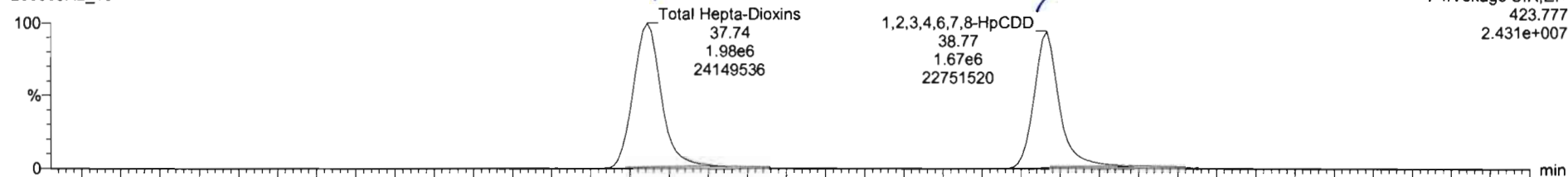
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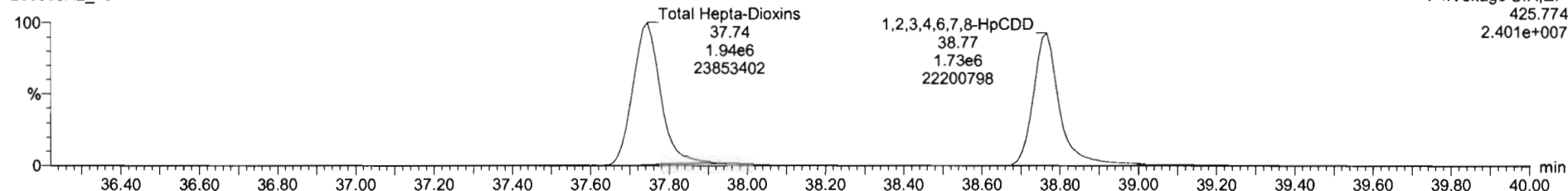
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1,2,3,4,6,7,8-HpCDD

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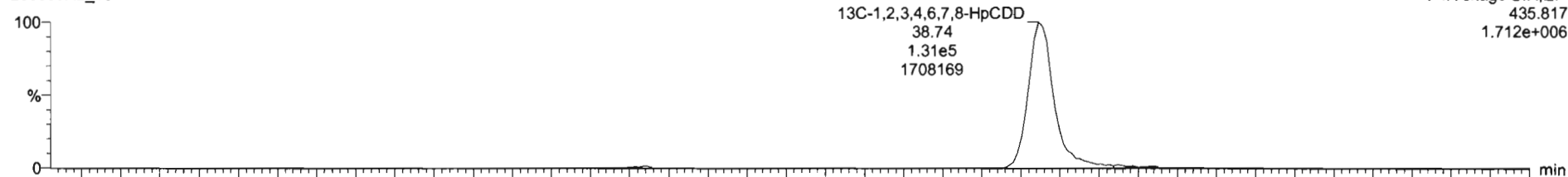


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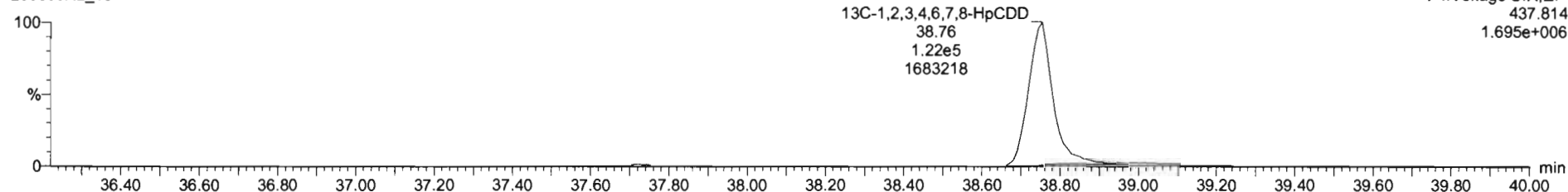


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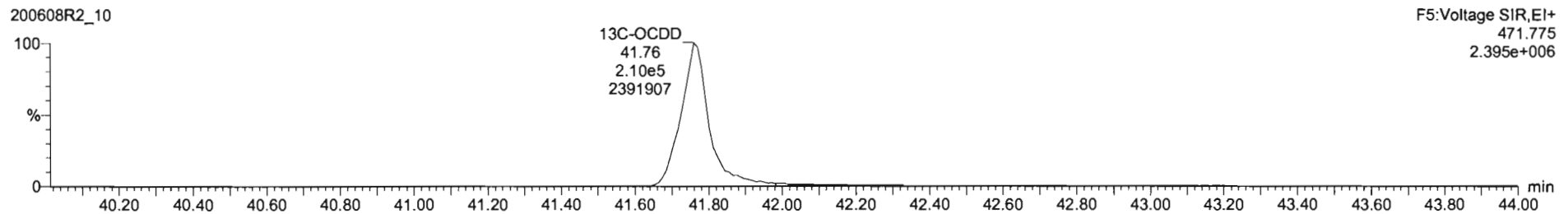
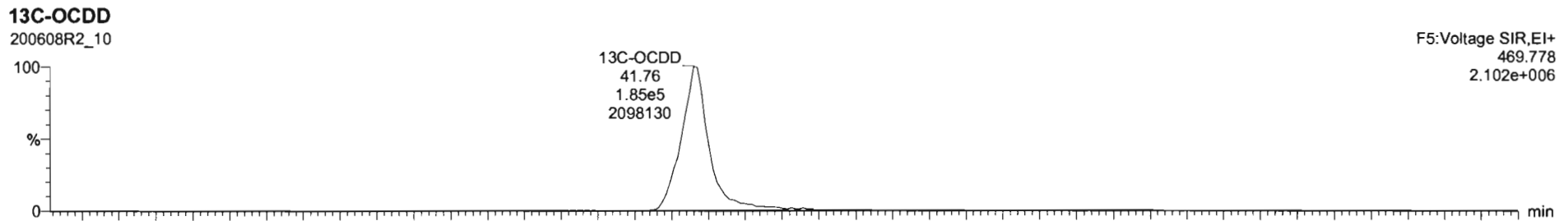
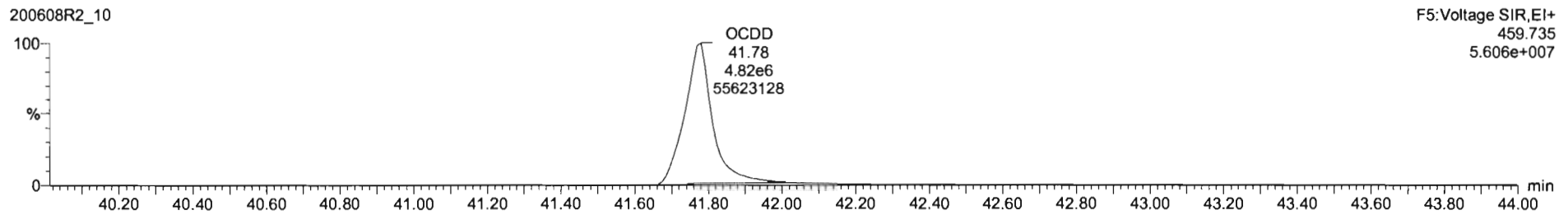
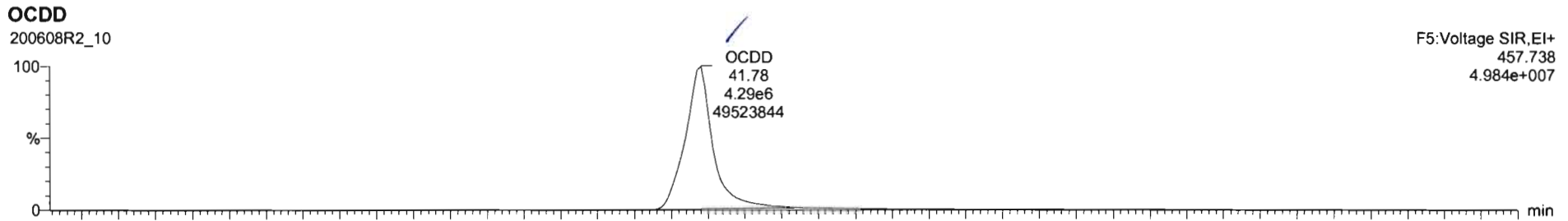
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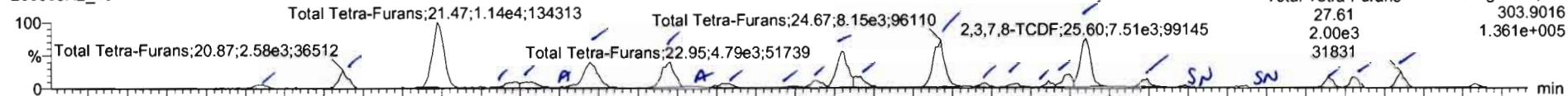
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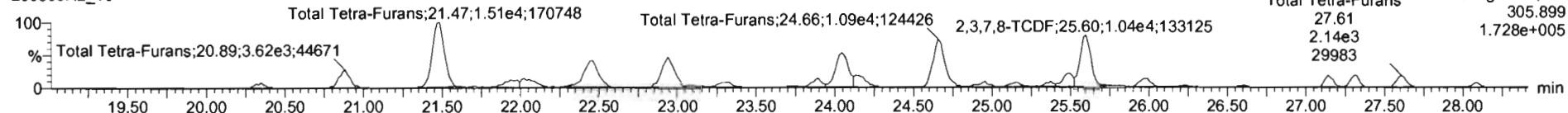
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2,3,7,8-TCDF

200608R2_10

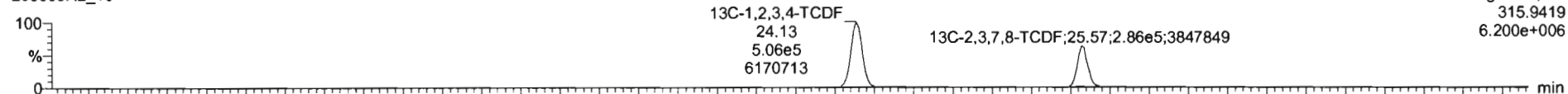


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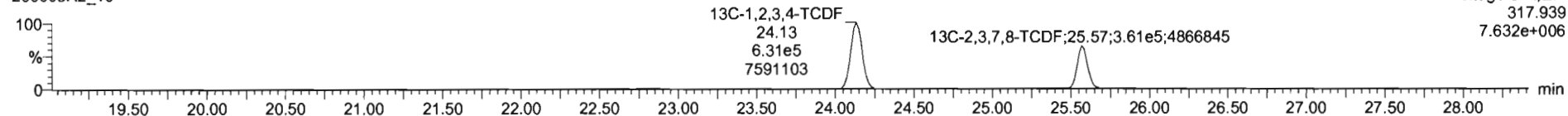


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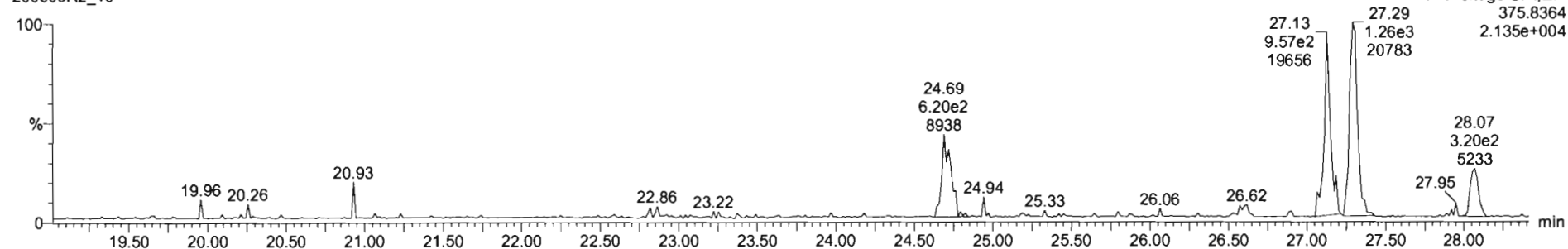


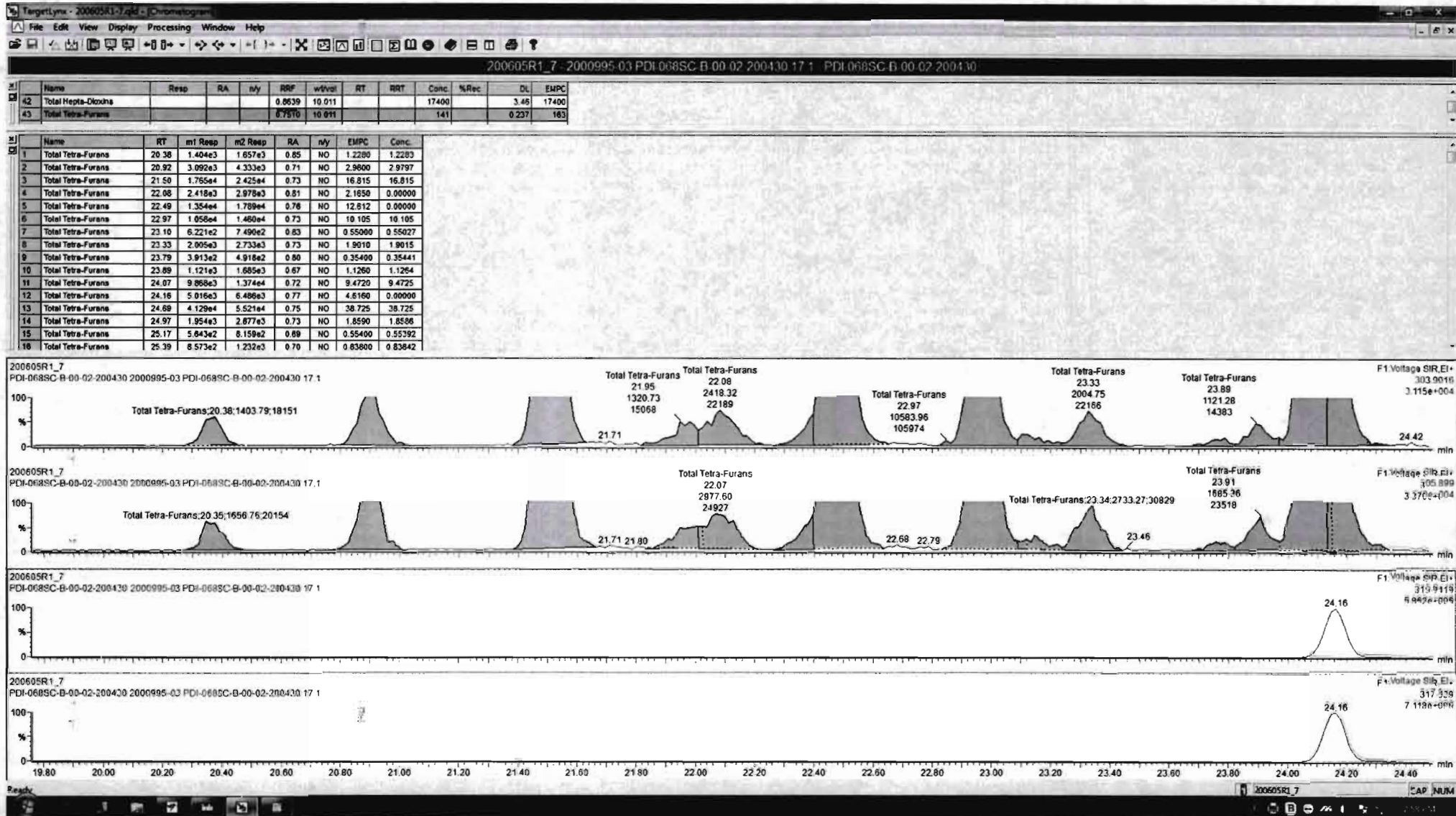
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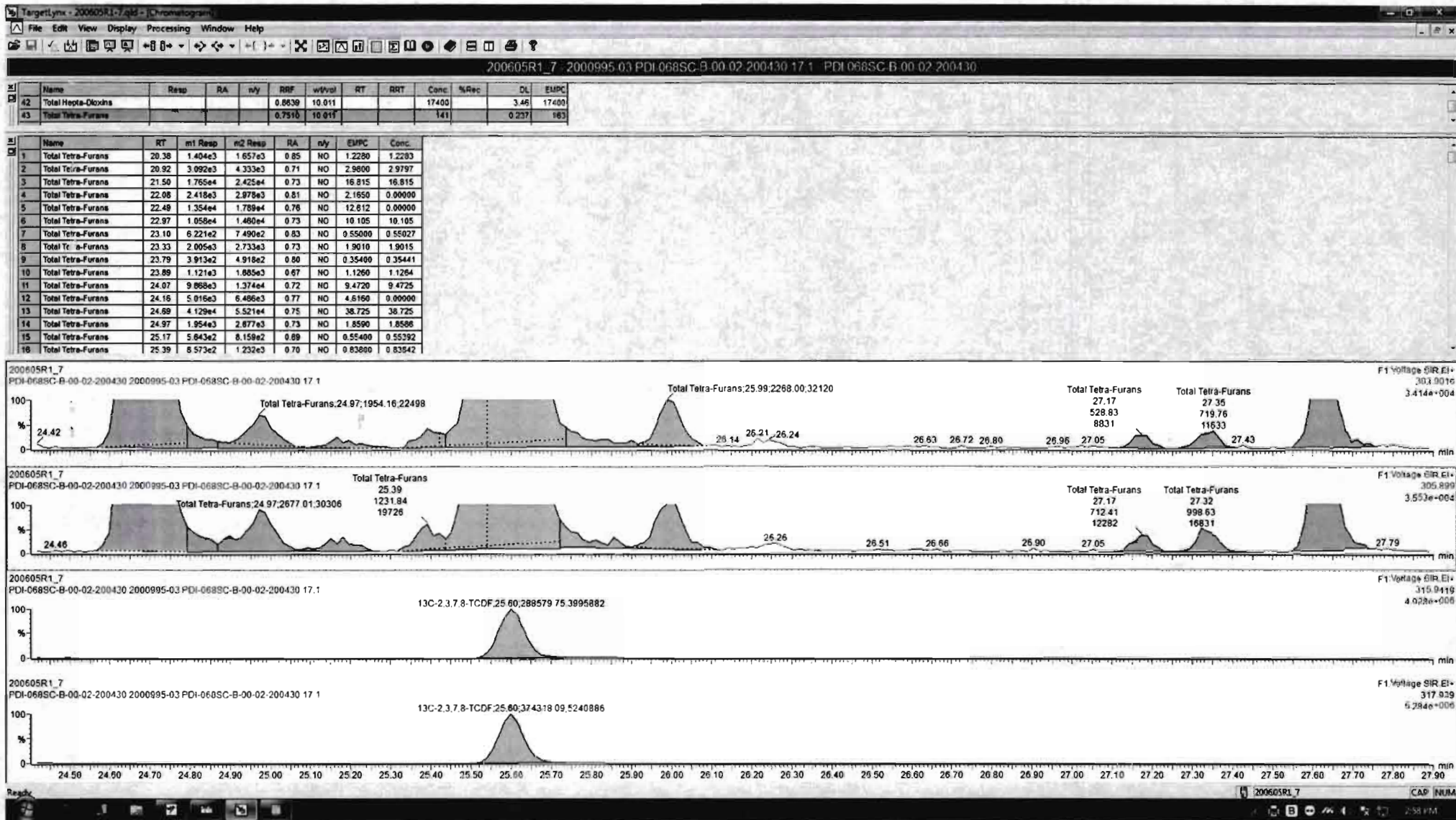


DPE1

200608R2_10







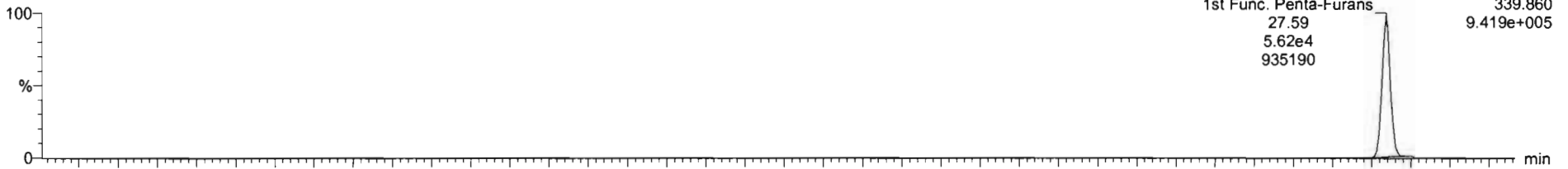
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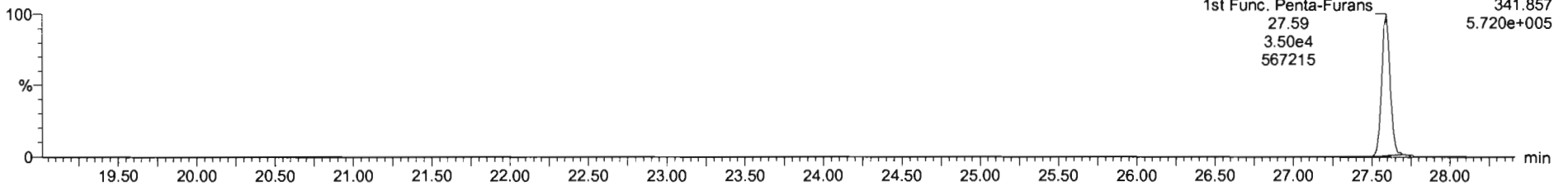
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1st Func. Penta-Furans

200608R2_10

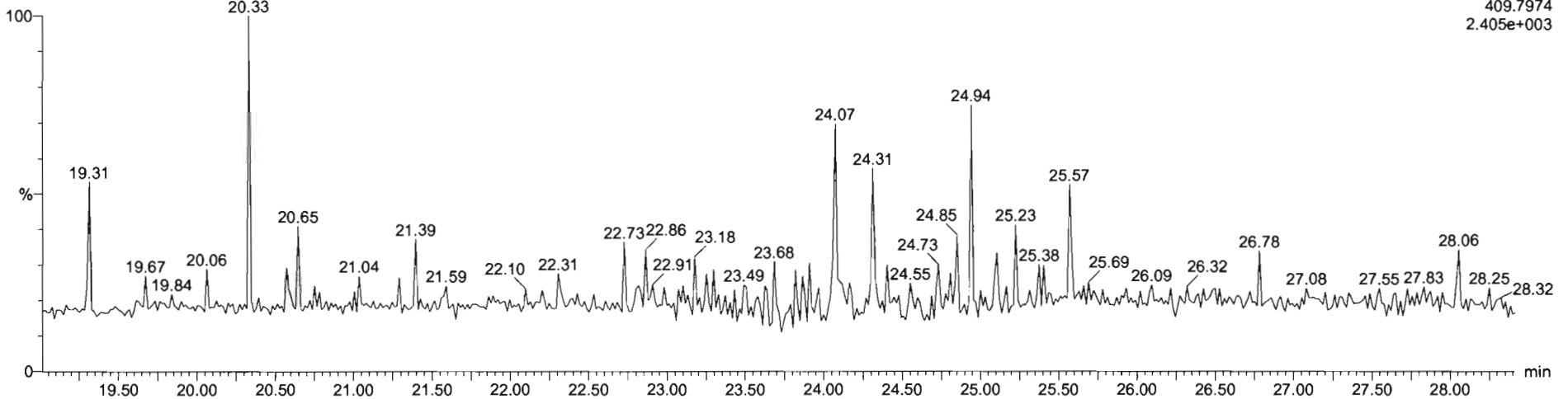


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DPE6

200608R2_10



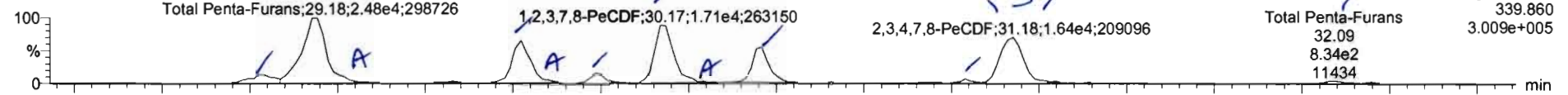
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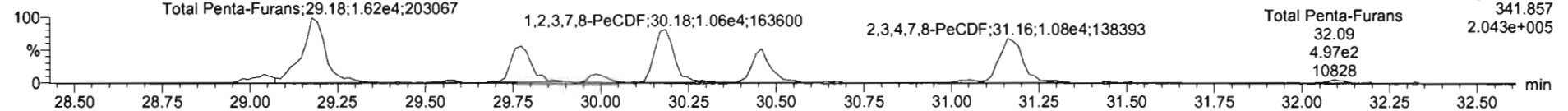
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1,2,3,7,8-PeCDF

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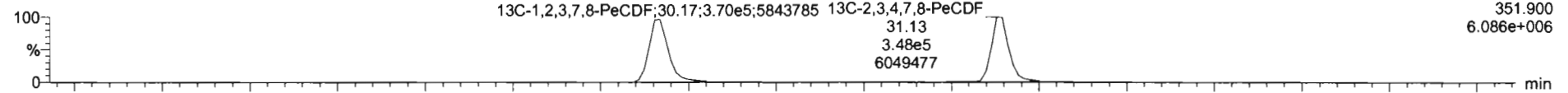


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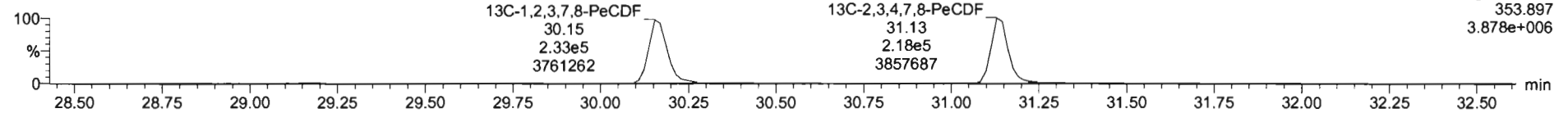


13C-1,2,3,7,8-PeCDF

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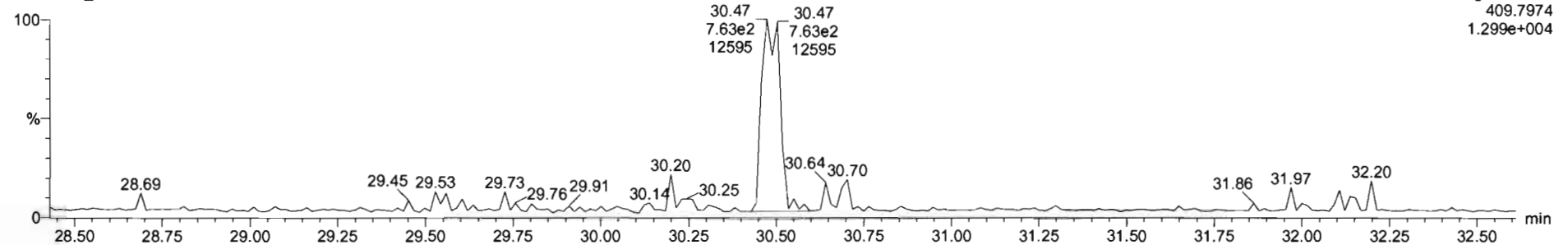


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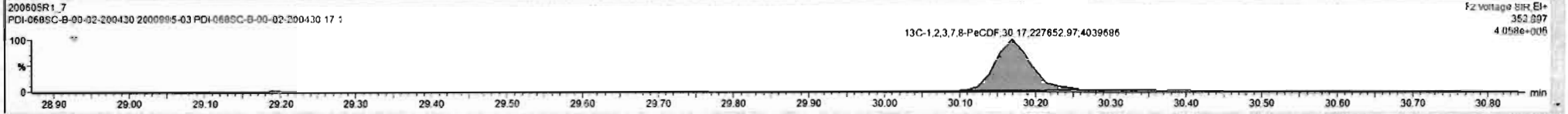
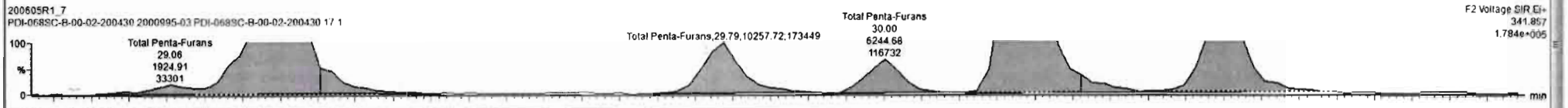
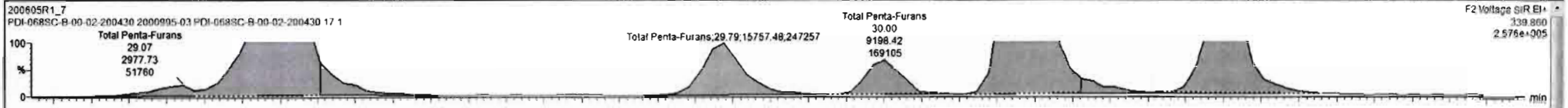
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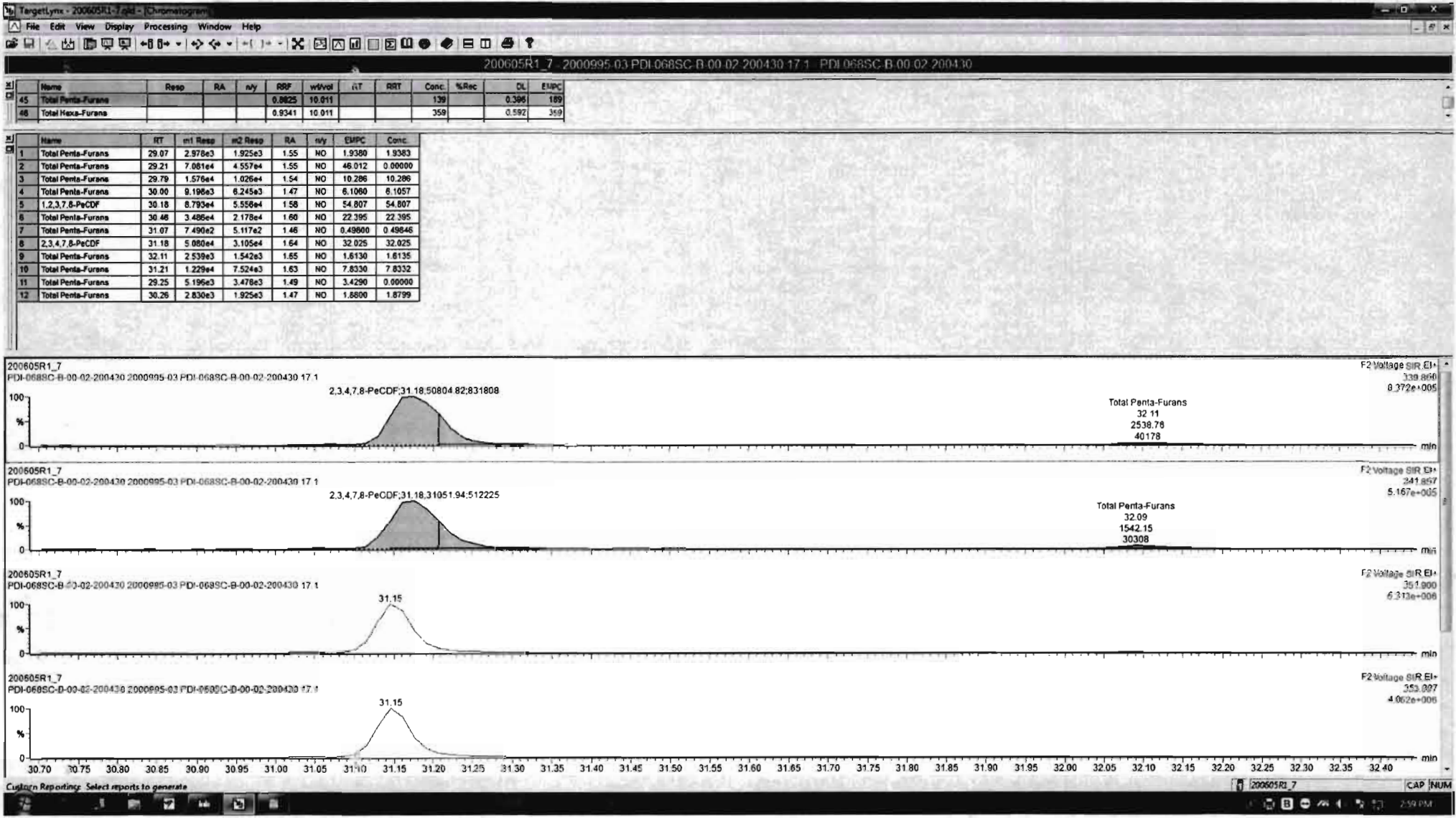
200608R2_10



SI	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.8925	10.011			139		0.398	189
46	Total Hexa-Furans				0.9341	10.011			359		0.592	359

SI	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Penta-Furans	29.07	2.978e3	1.925e3	1.55	NO	1.9380	1.9383
2	Total Penta-Furans	29.21	7.081e4	4.557e4	1.55	NO	46.012	0.00000
3	Total Penta-Furans	29.79	1.578e4	1.026e4	1.54	NO	10.286	10.286
4	Total Penta-Furans	30.00	9.186e3	6.245e3	1.47	NO	6.1090	6.1097
5	1,2,3,7,8-PeCDF	30.18	8.795e4	5.558e4	1.58	NO	54.007	54.807
6	Total Penta-Furans	30.46	3.489e4	2.178e4	1.60	NO	22.395	22.395
7	Total Penta-Furans	31.07	7.490e2	5.117e2	1.46	NO	0.49800	0.49846
8	2,3,4,7,8-PeCDF	31.18	5.880e4	3.105e4	1.64	NO	32.025	32.025
9	Total Penta-Furans	32.11	2.538e3	1.542e3	1.65	NO	1.8130	1.8135
10	Total Penta-Furans	31.21	1.229e4	7.524e3	1.63	NO	7.8330	7.8332
11	Total Penta-Furans	29.25	5.196e3	3.478e3	1.49	NO	3.4290	0.00000
12	Total Penta-Furans	30.26	2.830e3	1.925e3	1.47	NO	1.8800	1.8799





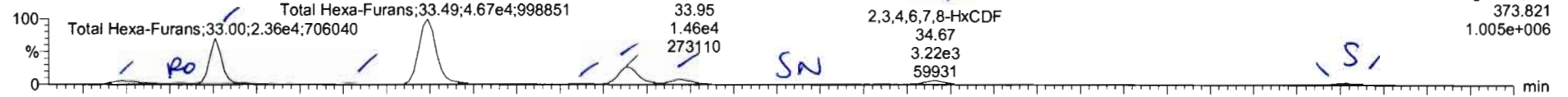
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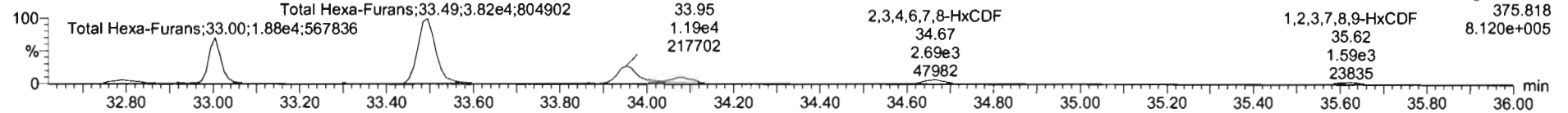
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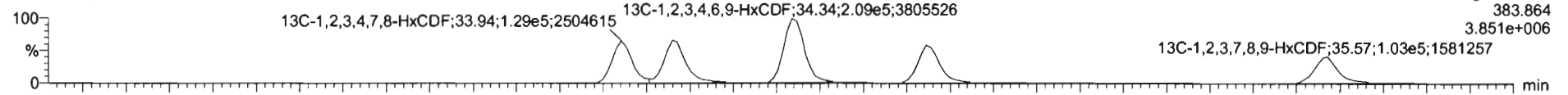


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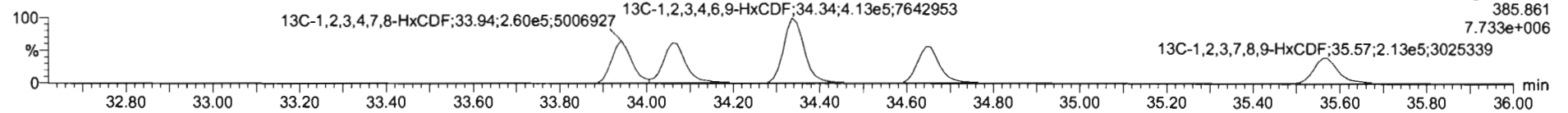


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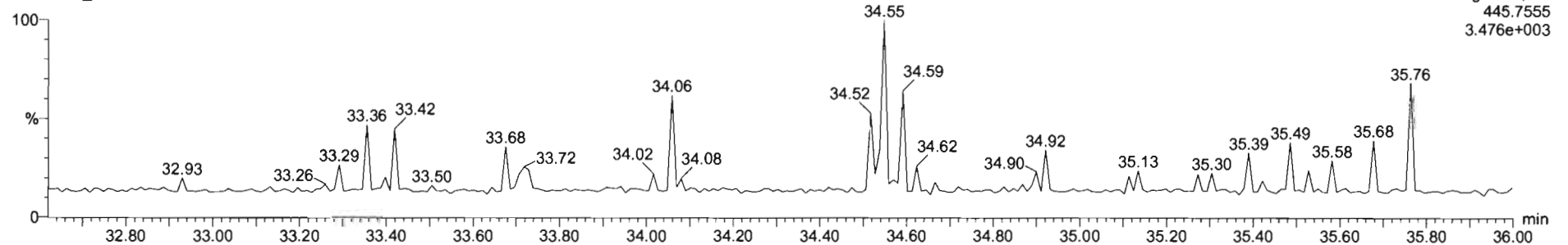


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DPE3

200608R2_10



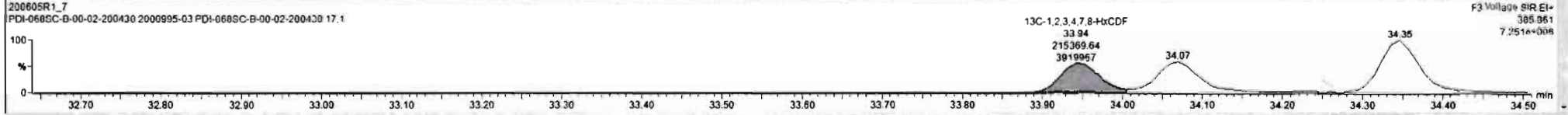
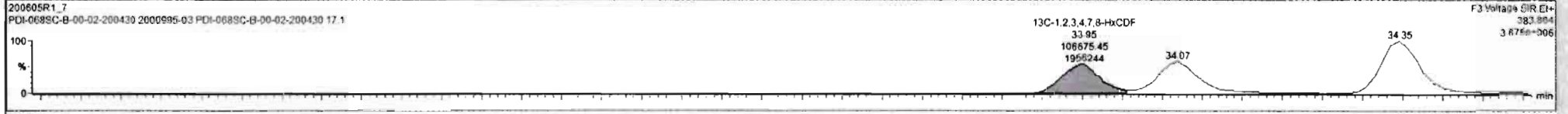
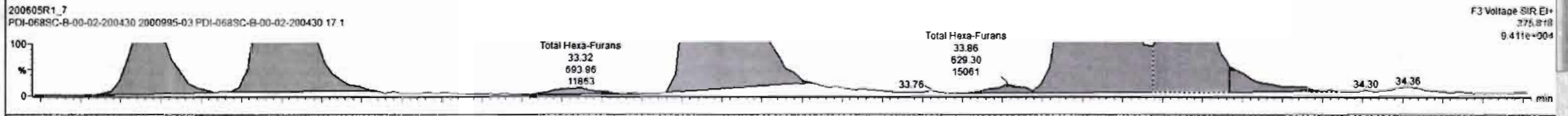
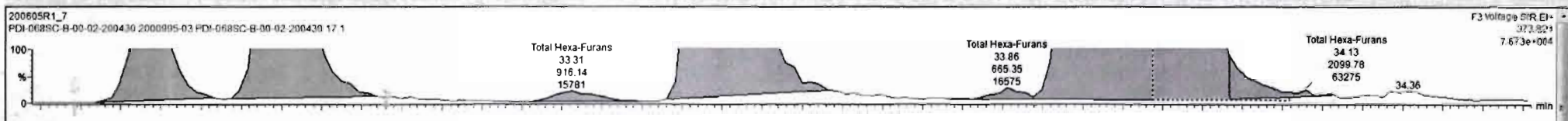
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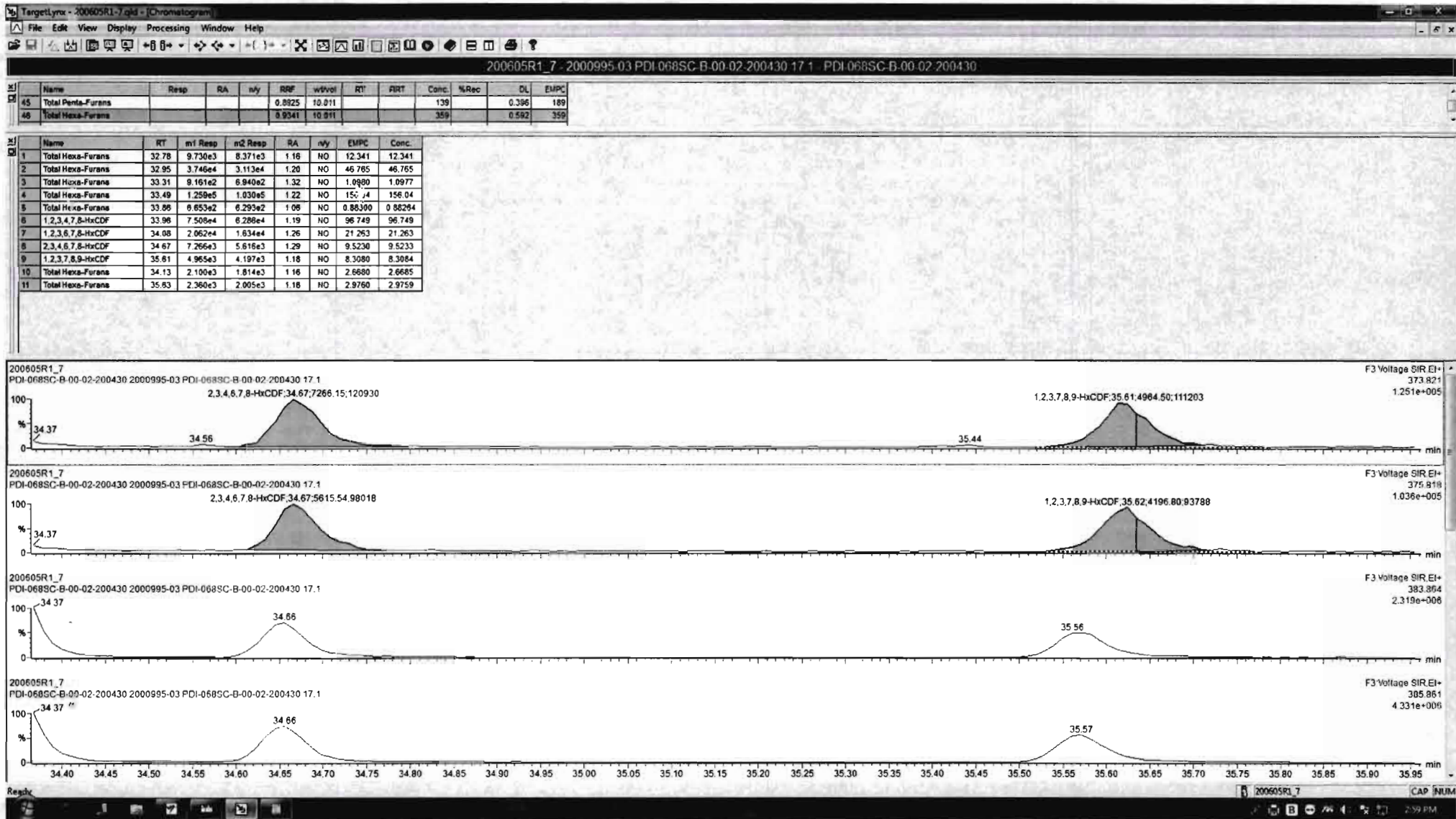
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200605R1_7_2000995-03 PDI-068SC-B-00-02-200430 17.1 PDI-068SC-B-00-02-200430

#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Hexa-Furans				0.8925	10.011			139		0.396	189
46	Total Hexa-Furans				9.9581	10.671			359		0.582	359

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.78	9.730e3	8.371e3	1.16	NO	12.341	12.341
2	Total Hexa-Furans	32.95	3.746e4	3.113e4	1.20	NO	46.765	46.765
3	Total Hexa-Furans	33.31	9.161e2	6.940e2	1.32	NO	1.0980	1.0977
4	Total Hexa-Furans	33.49	1.259e5	1.030e5	1.22	NO	156.04	156.04
5	Total Hexa-Furans	33.86	6.853e2	6.293e2	1.06	NO	0.88300	0.88264
6	1,2,3,4,7,8-HxCDF	33.96	7.508e4	6.286e4	1.19	NO	96.749	96.749
7	1,2,3,6,7,8-HxCDF	34.08	2.062e4	1.634e4	1.26	NO	21.263	21.263
8	2,3,4,6,7,8-HxCDF	34.67	7.266e3	5.616e3	1.29	NO	9.5230	9.5233
9	1,2,3,7,8,9-HxCDF	35.61	4.965e3	4.197e3	1.18	NO	8.3080	8.3084
10	Total Hexa-Furans	34.13	2.100e3	1.814e3	1.16	NO	2.6680	2.6685
11	Total Hexa-Furans	35.63	2.360e3	2.005e3	1.18	NO	2.9760	2.9759





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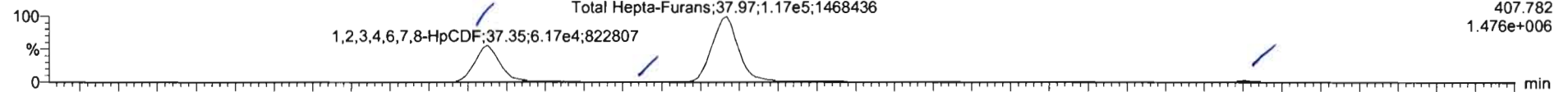
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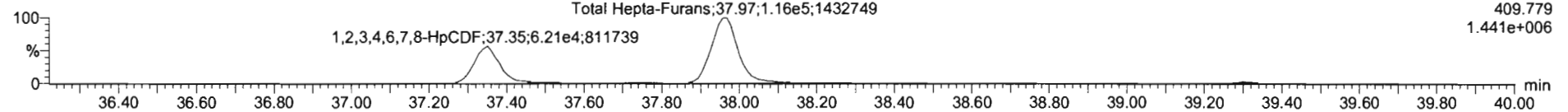
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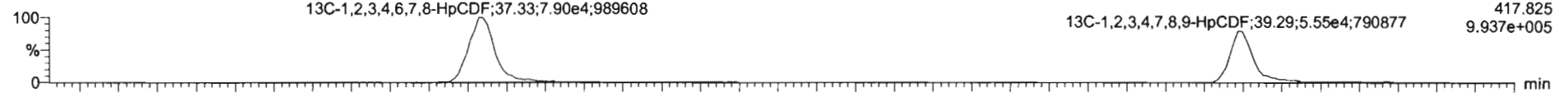


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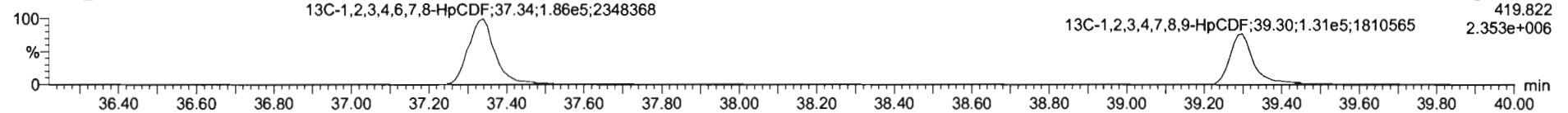


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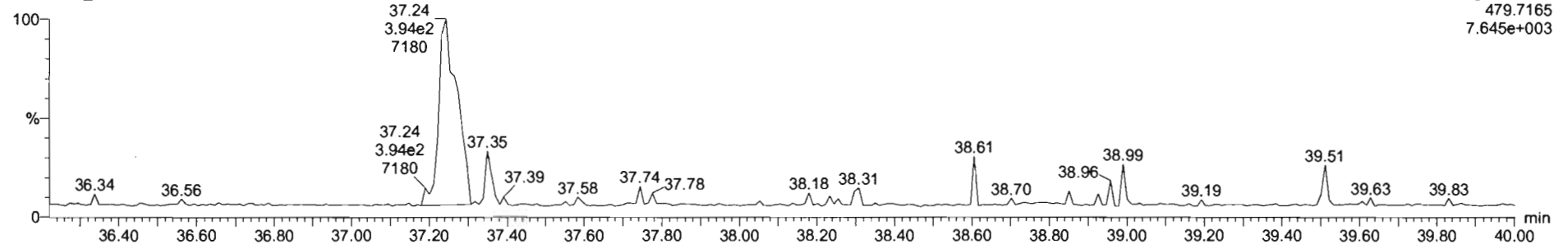


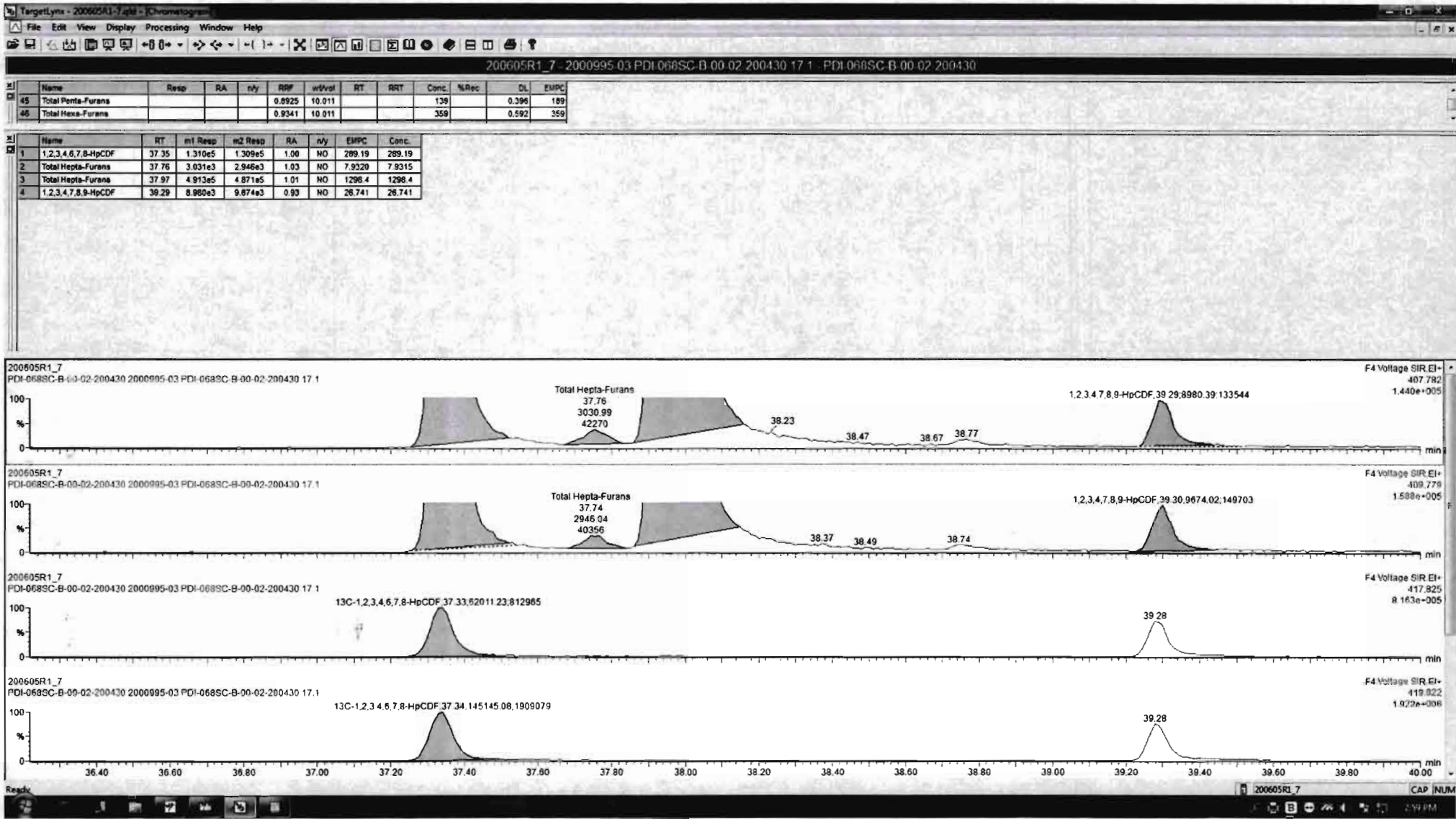
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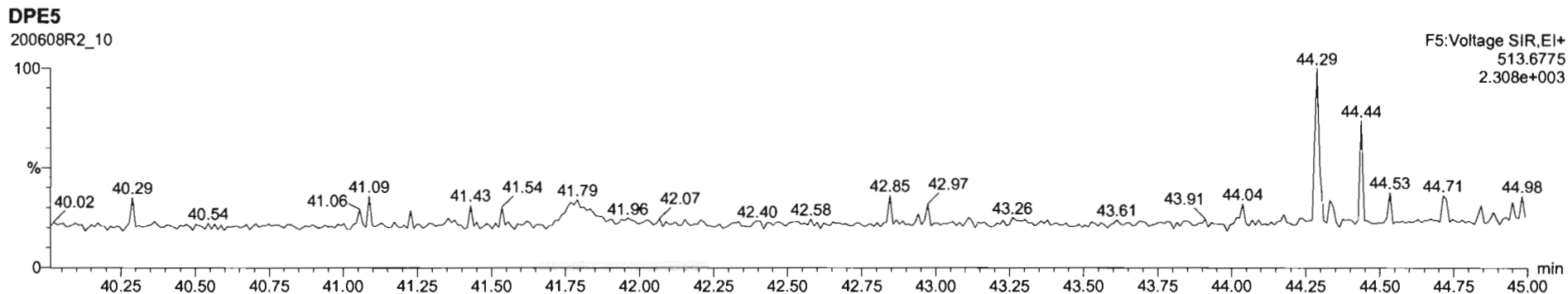
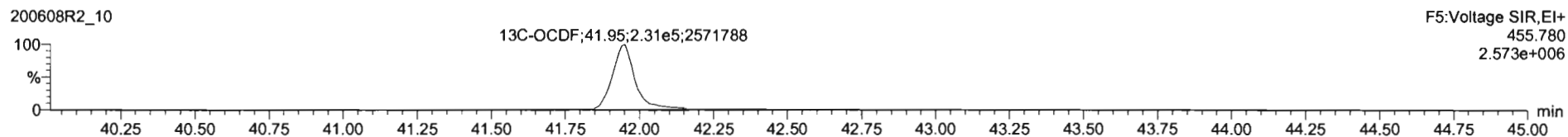
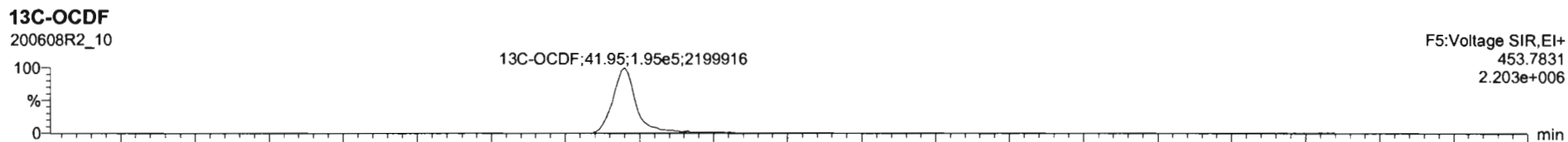
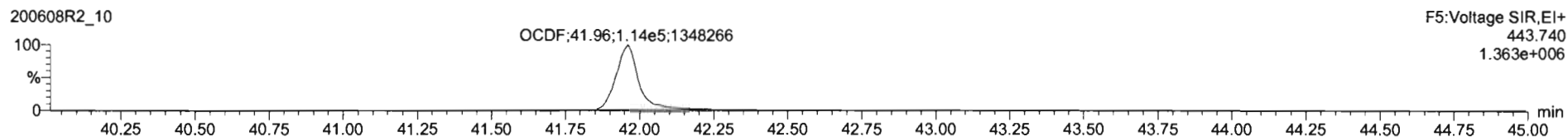
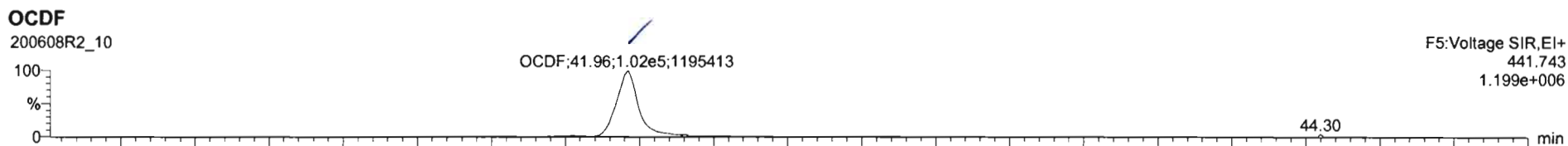




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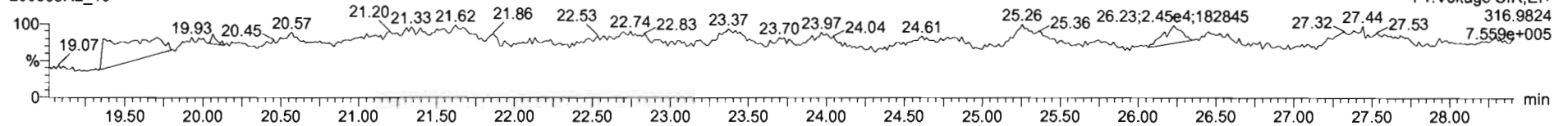
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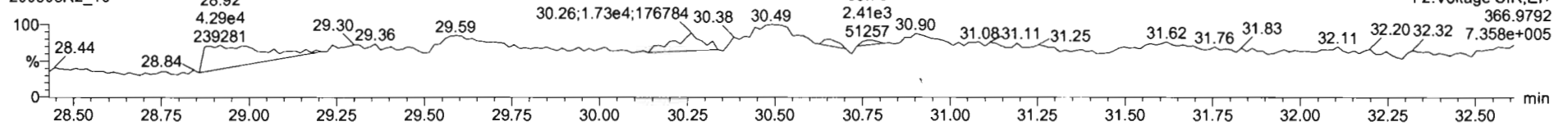
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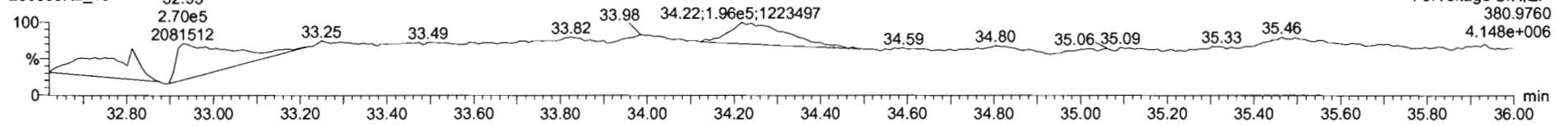
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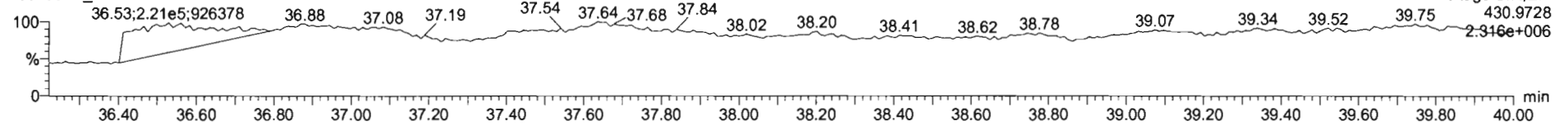
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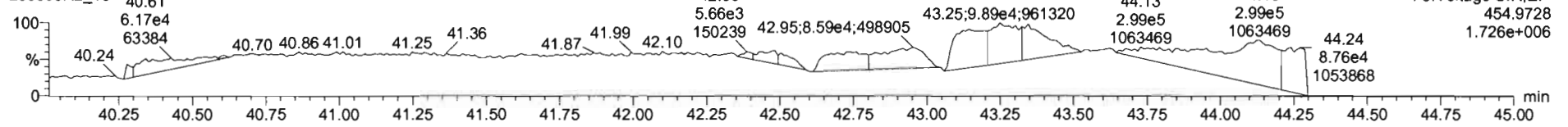
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200608R2_10



PFK5

200608R2_10



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GRS 06/11/2020

06/12/2020

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Name: 200609R2_14, Date: 10-Jun-2020, Time: 09:30:02, ID: 2001034-01@2X PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	1.53e6	1.07	NO	0.864	10.014	38.756	38.76	1.000	1.000	3025.7		4.00	3030
2	7 OCDD	4.26e6	0.87	NO	0.914	10.014	41.738	41.76	1.000	1.000	9822.9		5.62	9820
3	23 13C-1,2,3,4,6,7,8-HpCDD	1.17e5	1.08	NO	0.689	10.014	38.739	38.74	1.128	1.128	118.07	59.1	1.14	
4	24 13C-OCDD	1.89e5	0.88	NO	0.652	10.014	41.762	41.74	1.216	1.215	202.00	50.6	0.748	
5	35 37Cl-2,3,7,8-TCDD	1.07e5			1.04	10.014	26.538	26.50	1.028	1.026	50.033	62.6	0.140	
6	36 13C-1,2,3,4-TCDD	4.11e5	0.78	NO	1.00	10.014	25.890	25.83	1.000	1.000	199.73	100	0.662	
7	37 13C-1,2,3,4-TCDF	5.31e5	0.78	NO	1.00	10.014	24.360	24.15	1.000	1.000	199.73	100	0.749	
8	38 13C-1,2,3,4,6,9-HxCDF	2.87e5	0.48	NO	1.00	10.014	34.420	34.35	1.000	1.000	199.73	100	0.758	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200609R2\200609R2-14.qld

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Name: 200609R2_14, Date: 10-Jun-2020, Time: 09:30:02, ID: 2001034-01@2X PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	9.693e4	1.683e5	8.295e3	1.378e4	0.60	NO	2.207e4	21.910	21.910	0.391
2	Total Penta-Dioxins	29.73	8.667e4	1.294e5	4.916e3	7.713e3	0.64	NO	1.263e4	12.535	12.535	0.391
3	Total Penta-Dioxins	30.22	4.945e4	7.550e4	2.919e3	4.300e3	0.68	NO	7.219e3	7.1655	7.1650	0.391
4	Total Penta-Dioxins	30.40	3.403e4	6.349e4	1.653e3	2.840e3	0.58	NO	4.493e3	4.4598	4.4600	0.391
5	Total Penta-Dioxins	30.49	3.573e4	7.280e4	2.070e3	3.309e3	0.63	NO	5.379e3	5.3387	5.3390	0.391
6	Total Penta-Dioxins	30.73	1.043e5	1.879e5	9.038e3	1.508e4	0.60	NO	2.412e4	23.939	23.939	0.391
7	Total Penta-Dioxins	31.04	2.151e4	3.330e4	1.111e3	1.821e3	0.61	NO	2.931e3	2.9096	2.9100	0.391
8	1,2,3,7,8-PeCDD	31.47	1.916e4	2.725e4	9.759e2	1.588e3	0.61	NO	2.564e3	2.5451	2.5450	0.391
9	Total Penta-Dioxins	31.54	4.030e4	5.548e4	2.097e3	3.176e3	0.66	NO	5.273e3	5.2336	5.2340	0.391
10	Total Penta-Dioxins	31.85	1.346e4	3.117e4	8.287e2	1.627e3	0.51	YES	0.000e0	0.00000	2.1280	0.391

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.33	4.339e6	3.478e6	2.137e5	1.734e5	1.23	NO	3.871e5	556.78	556.77	1.37
2	Total Hexa-Dioxins	33.89	4.787e5	3.805e5	2.586e4	2.128e4	1.22	NO	4.715e4	67.805	67.805	1.37
3	Total Hexa-Dioxins	34.14	2.309e6	1.900e6	1.664e5	1.370e5	1.21	NO	3.034e5	436.38	436.38	1.37
4	Total Hexa-Dioxins	34.25	2.817e5	2.244e5	1.799e4	1.358e4	1.33	NO	3.157e4	45.403	45.403	1.37
5	1,2,3,4,7,8-HxCDD	34.84	6.592e4	5.324e4	3.537e3	2.905e3	1.22	NO	6.442e3	9.0708	9.0710	1.25
6	1,2,3,6,7,8-HxCDD	34.93	3.247e5	2.769e5	1.971e4	1.797e4	1.10	NO	3.769e4	47.591	47.591	1.28
7	Total Hexa-Dioxins	35.12	2.512e5	2.185e5	1.471e4	1.344e4	1.10	NO	2.815e4	40.482	40.482	1.37
8	1,2,3,7,8,9-HxCDD	35.22	1.246e5	9.436e4	8.344e3	7.259e3	1.15	NO	1.560e4	23.053	23.053	1.41

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.74	1.153e7	1.143e7	9.862e5	9.423e5	1.05	NO	1.929e6	3810.6	3810.6	4.00
2	1,2,3,4,6,7,8-HpCDD	38.76	9.711e6	9.483e6	7.908e5	7.405e5	1.07	NO	1.531e6	3025.7	3025.7	4.00

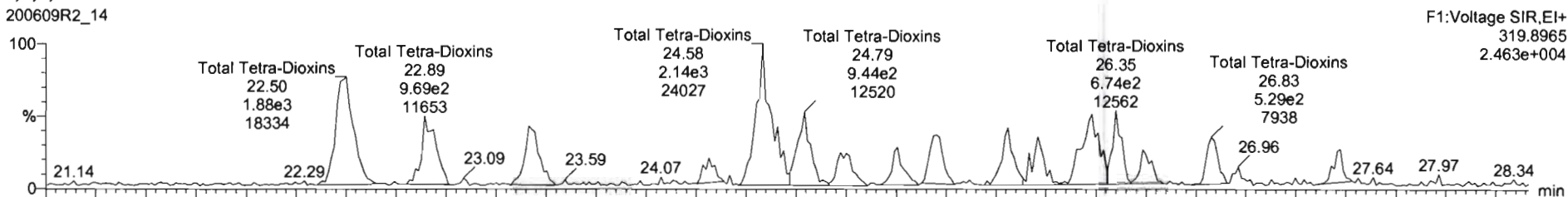
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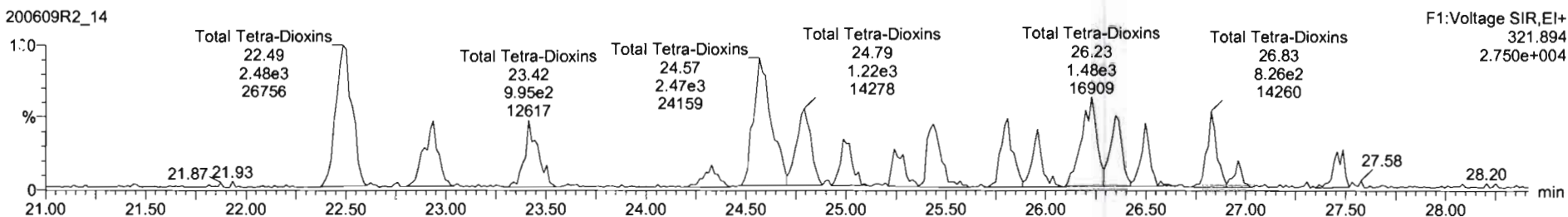
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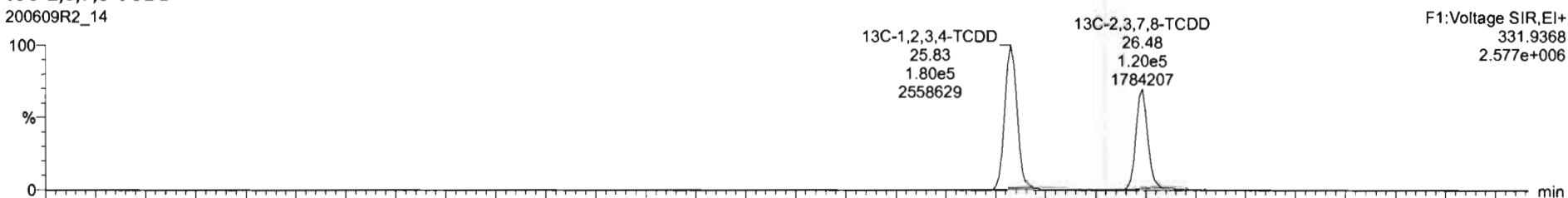


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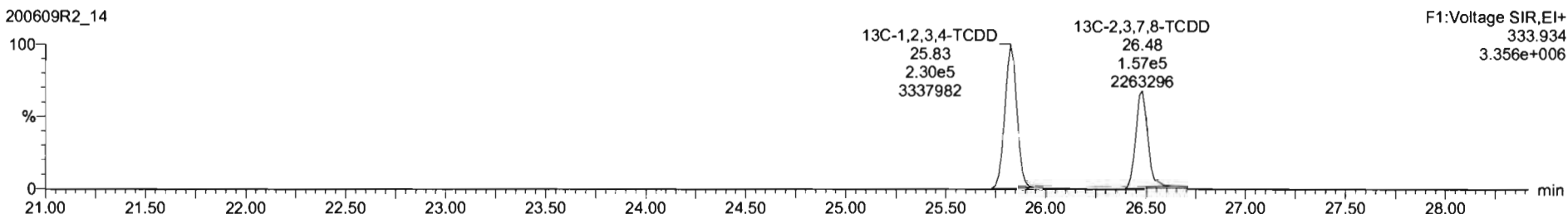


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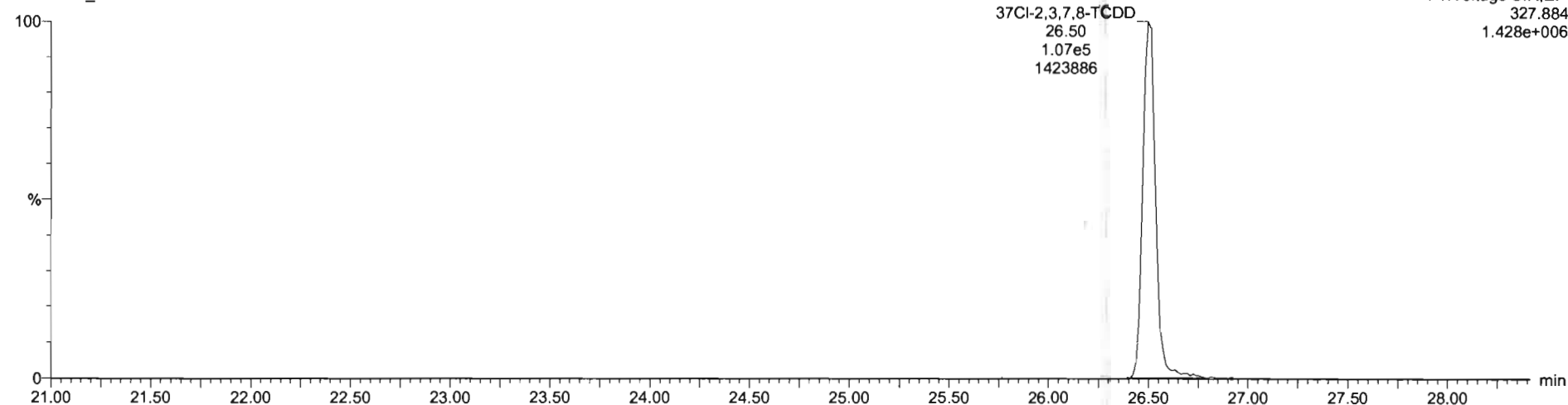
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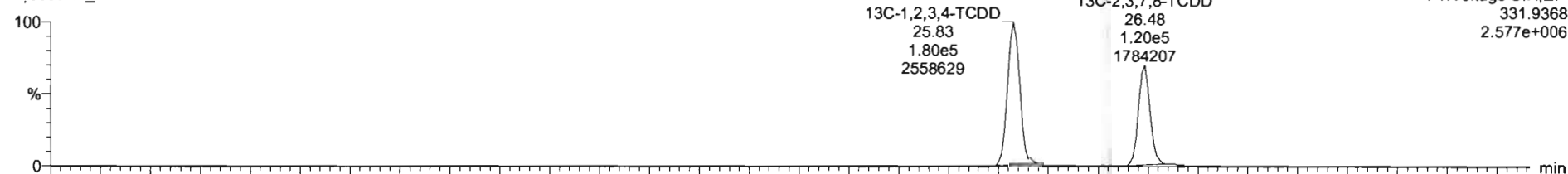
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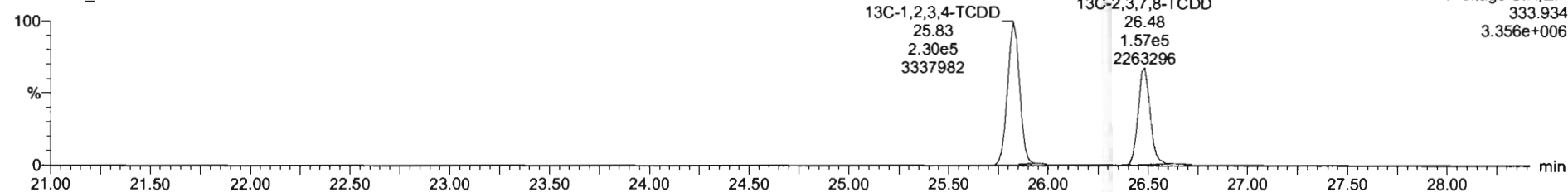


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200609R2_14



200609R2_14



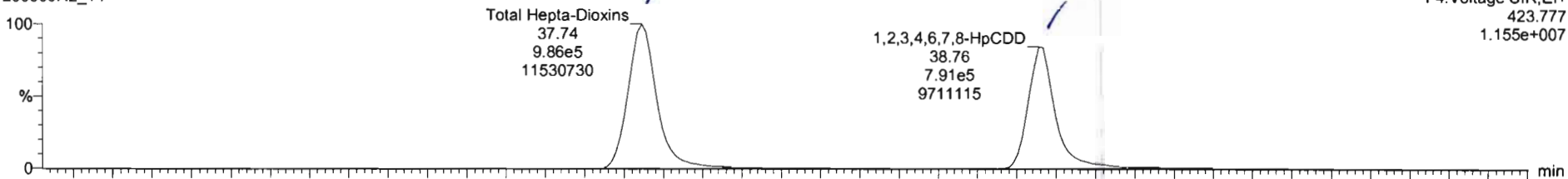
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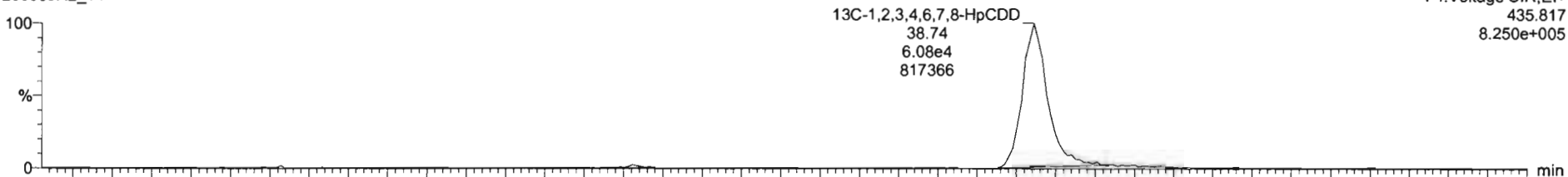


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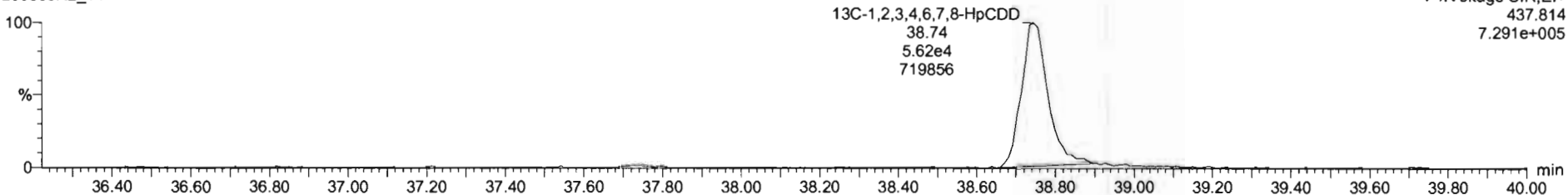


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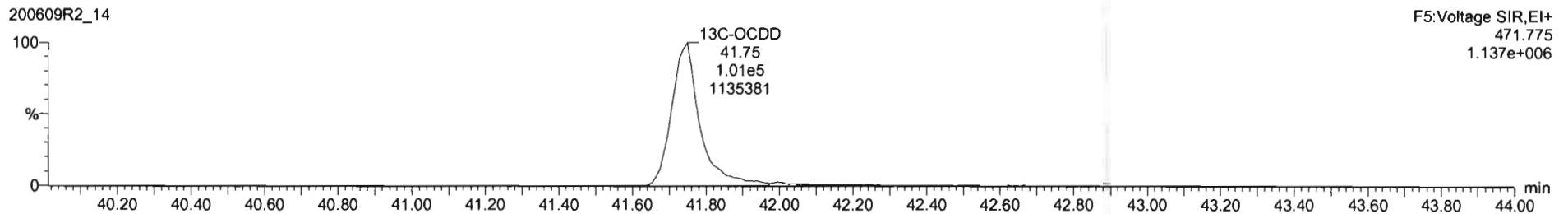
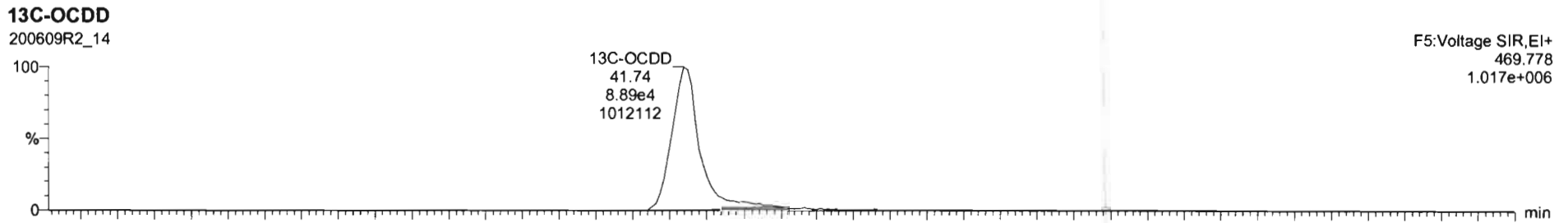
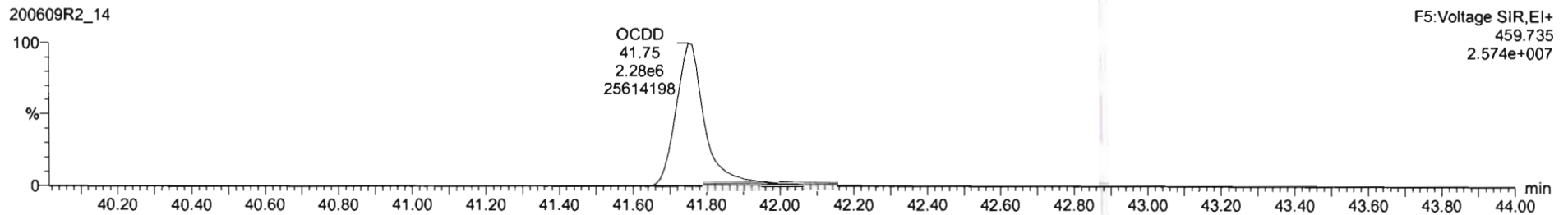
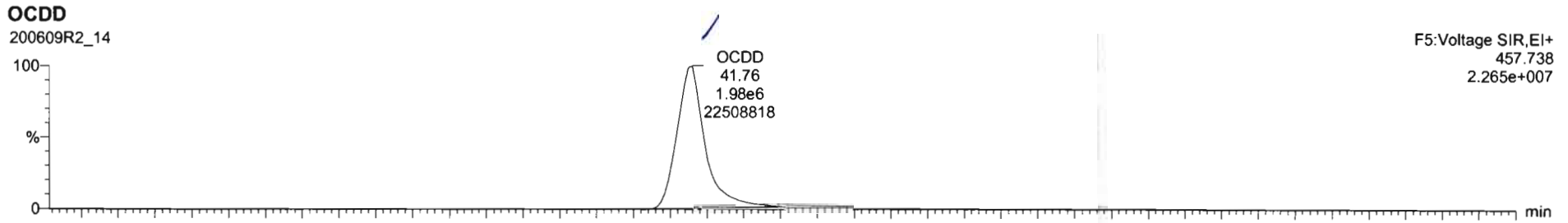


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Printed: Wednesday, June 10, 2020 10:19:39 Pacific Daylight Time

Name: 200609R2_14, Date: 10-Jun-2020, Time: 09:30:02, ID: 2001034-01@2X PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508



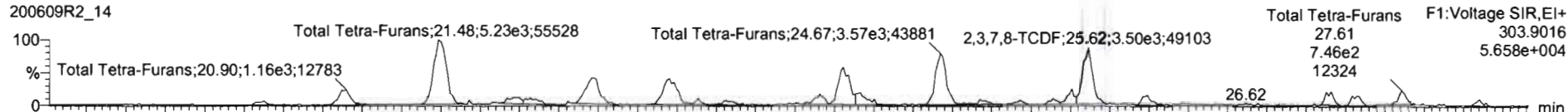
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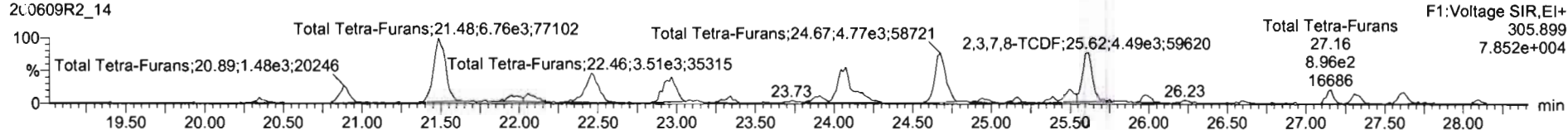
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2,3,7,8-TCDF

200609R2_14

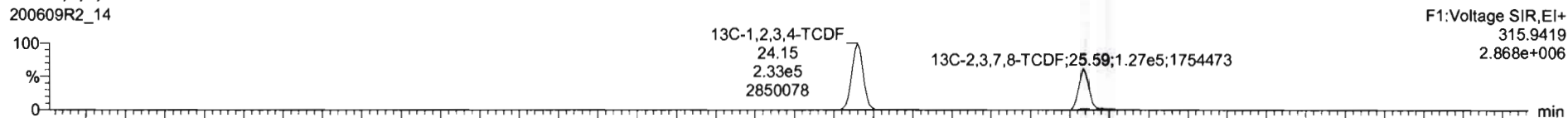


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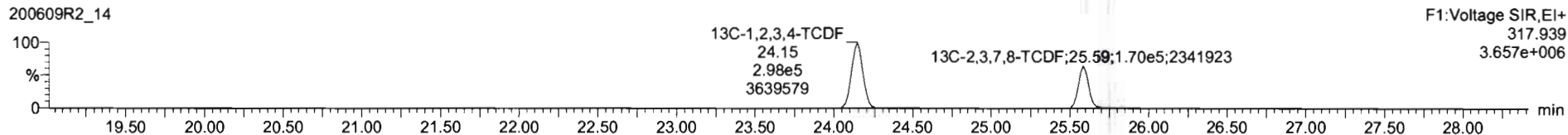


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200609R2_14

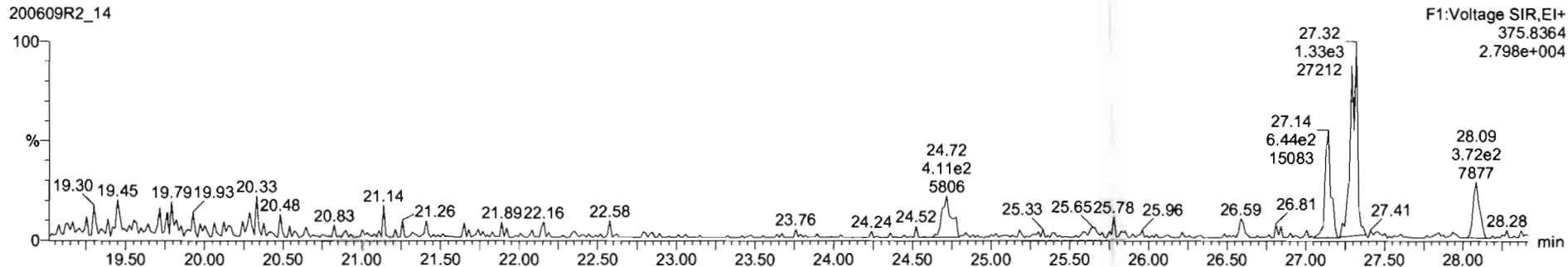


200609R2_14



DPE1

200609R2_14

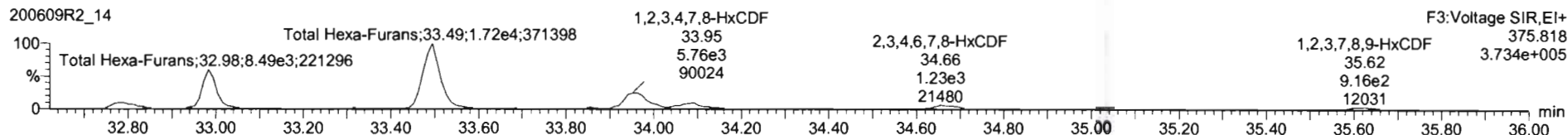
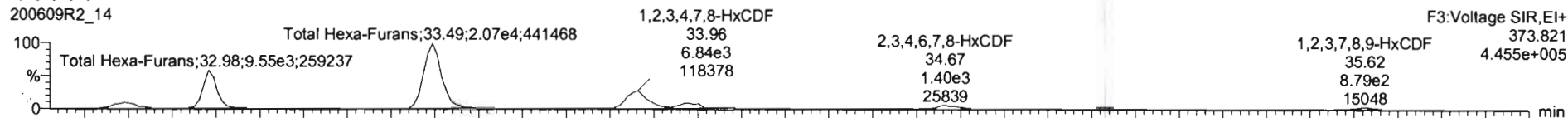


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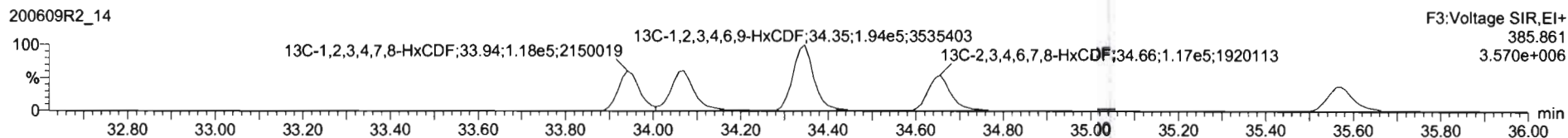
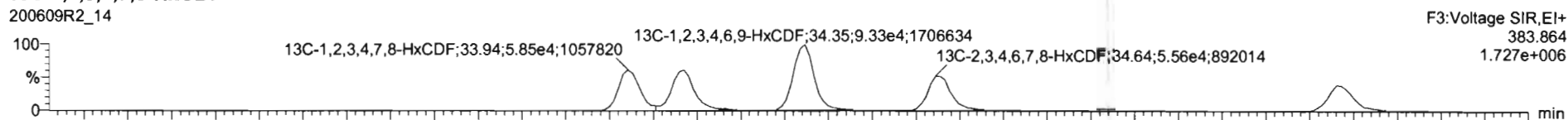
Last Altered: Wednesday, June 10, 2020 10:19:23 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 10:19:39 Pacific Daylight Time

Name: 200609R2_14, Date: 10-Jun-2020, Time: 09:30:02, ID: 2001034-01@2X PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

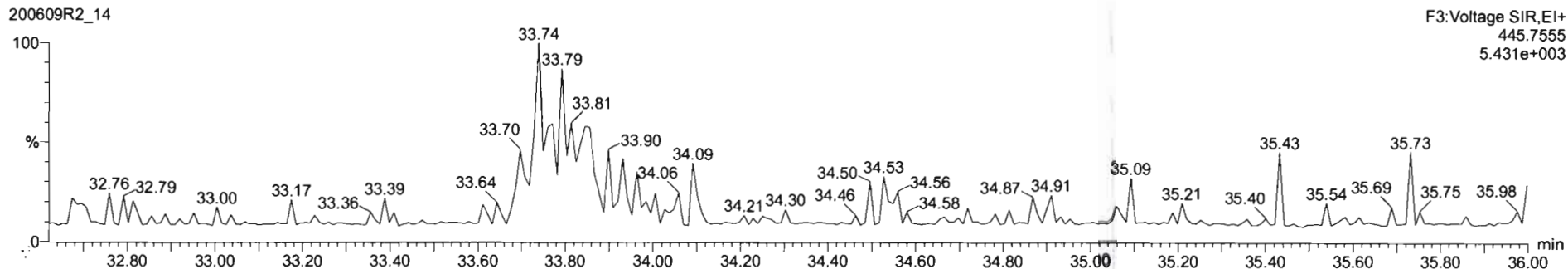
1,2,3,4,7,8-HxCDF



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



DPE3

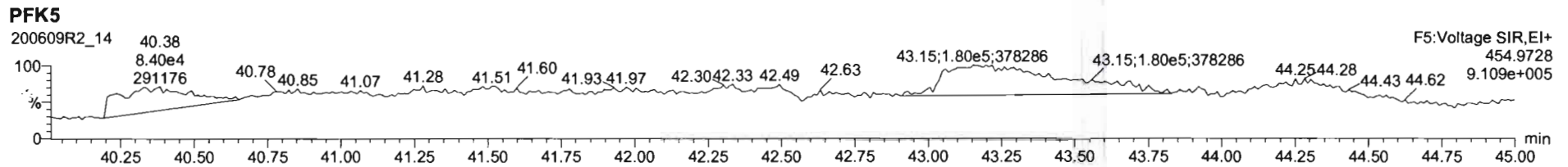
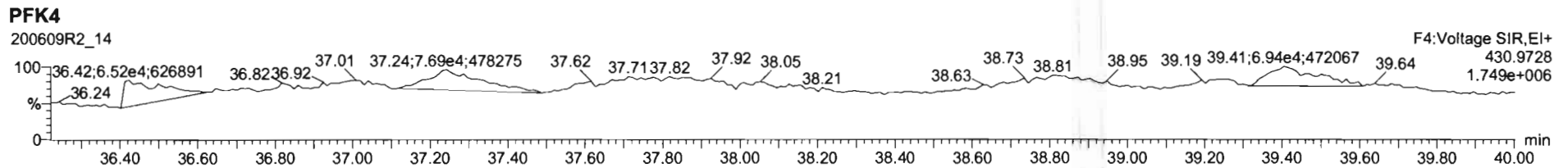
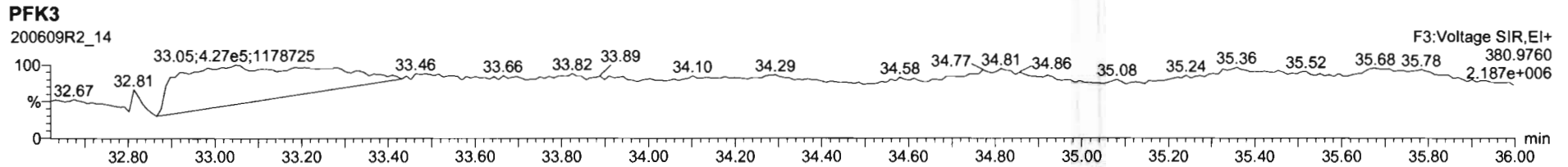
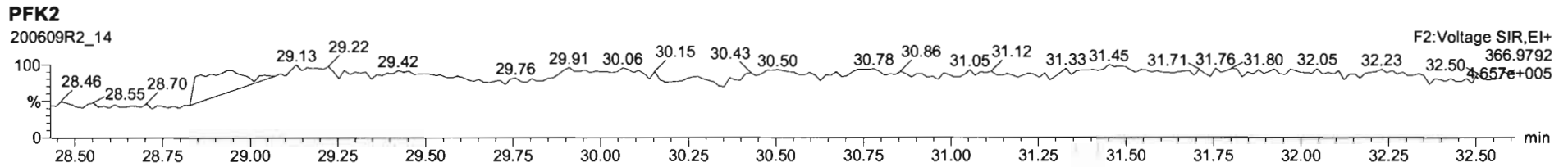
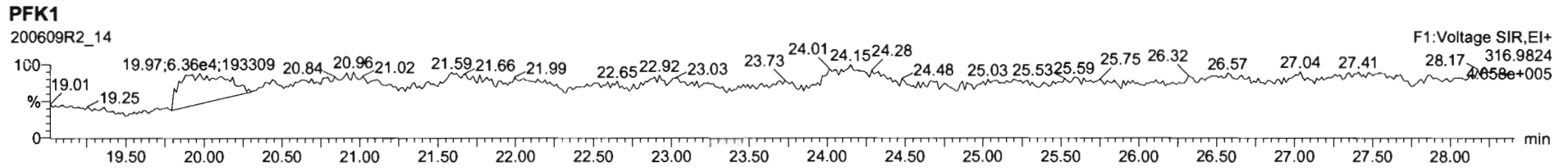


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Last Altered: Wednesday, June 10, 2020 10:19:23 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 10:19:39 Pacific Daylight Time

Name: 200609R2_14, Date: 10-Jun-2020, Time: 09:30:02, ID: 2001034-01@2X PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508



Dataset: U:\VG12.PRO\Results\200608R2\200608R2-11.qld

Last Altered: Thursday, June 11, 2020 4:01:16 PM Pacific Daylight Time
Printed: Thursday, June 11, 2020 4:01:46 PM Pacific Daylight Time

GRB 06/11/2020

07/06/12/2020

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

**SEE DIL.*

Name: 200608R2_11, Date: 09-Jun-2020, Time: 07:55:27, ID: 2001034-02 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.49e3	0.72	NO	0.888	10.036	26.515	26.51	1.001	1.001	1.5633		0.144	1.56
2	2 1,2,3,7,8-PeCDD	6.58e3	0.70	NO	0.908	10.036	31.457	31.45	1.001	1.000	2.8385		0.383	2.84
3	3 1,2,3,4,7,8-HxCDD	1.45e4	1.33	NO	1.03	10.036	34.825	34.83	1.000	1.000	9.0768		1.14	9.08
4	4 1,2,3,6,7,8-HxCDD	1.40e5	1.26	NO	0.892	10.036	34.921	34.93	1.000	1.000	78.275		1.10	78.3
5	5 1,2,3,7,8,9-HxCDD	5.10e4	1.31	NO	0.887	10.036	35.209	35.21	1.000	1.000	32.617		1.24	32.6
6	6 1,2,3,4,6,7,8-HpCDD	5.27e6	1.03	NO	0.864	10.036	38.757	38.76	1.000	1.000	4367.8	<i>EX</i>	2.79	4370
7	7 OCDD	1.95e7	0.89	NO	0.914	10.036	41.780	41.79	1.000	1.000	19483	<i>EX</i>	3.24	19500
8	8 2,3,7,8-TCDF	5.67e4	0.75	NO	0.751	10.036	25.612	25.61	1.001	1.001	18.776	<i>(16.4)</i>	0.272	18.8
9	9 1,2,3,7,8-PeCDF	7.26e4	1.59	NO	0.893	10.036	30.190	30.18	1.001	1.000	22.060		0.307	22.1
10	10 2,3,4,7,8-PeCDF	6.05e4	1.64	NO	0.935	10.036	31.161	31.18	1.001	1.001	19.060		0.279	19.1
11	11 1,2,3,4,7,8-HxCDF	8.87e4	1.18	NO	0.884	10.036	33.931	33.95	1.000	1.001	45.149		0.367	45.1
12	12 1,2,3,6,7,8-HxCDF	2.91e4	1.22	NO	0.889	10.036	34.068	34.07	1.000	1.000	13.008		0.359	13.0
13	13 2,3,4,6,7,8-HxCDF	1.72e4	1.32	NO	0.934	10.036	34.679	34.65	1.001	1.000	8.5715		0.408	8.57
14	14 1,2,3,7,8,9-HxCDF	6.89e3	1.22	NO	0.871	10.036	35.560	35.61	1.000	1.002	4.4498		0.600	4.45
15	15 1,2,3,4,6,7,8-HpCDF	2.07e5	1.01	NO	0.873	10.036	37.365	37.34	1.001	1.000	156.07		0.701	156
16	16 1,2,3,4,7,8,9-HpCDF	1.14e4	1.01	NO	1.01	10.036	39.288	39.30	1.000	1.000	10.591		0.820	10.6
17	17 OCDF	3.77e5	0.91	NO	0.806	10.036	41.961	41.97	1.000	1.000	388.30		0.949	388
18	18 13C-2,3,7,8-TCDD	6.44e5	0.79	NO	1.16	10.036	26.507	26.48	1.026	1.025	132.04	66.3	0.411	
19	19 13C-1,2,3,7,8-PeCDD	5.08e5	0.63	NO	0.849	10.036	31.692	31.43	1.227	1.217	141.87	71.2	0.369	
20	20 13C-1,2,3,4,7,8-HxCDD	3.09e5	1.34	NO	0.779	10.036	34.819	34.81	1.014	1.014	114.41	57.4	0.499	
21	21 13C-1,2,3,6,7,8-HxCDD	4.00e5	1.23	NO	1.02	10.036	34.932	34.92	1.017	1.017	113.37	56.9	0.383	
22	22 13C-1,2,3,7,8,9-HxCDD	3.51e5	1.24	NO	0.903	10.036	35.204	35.20	1.025	1.025	112.21	56.3	0.431	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.78e5	1.01	NO	0.689	10.036	38.726	38.74	1.128	1.128	116.43	58.4	0.399	
24	24 13C-OCDD	4.37e5	0.89	NO	0.652	10.036	41.748	41.78	1.216	1.217	193.25	48.5	0.608	
25	25 13C-2,3,7,8-TCDF	8.02e5	0.80	NO	1.06	10.036	25.549	25.59	0.989	0.991	122.85	61.6	0.401	
26	26 13C-1,2,3,7,8-PeCDF	7.35e5	1.61	NO	0.838	10.036	30.076	30.17	1.165	1.168	142.26	71.4	0.418	
27	27 13C-2,3,4,7,8-PeCDF	6.76e5	1.60	NO	0.817	10.036	31.029	31.13	1.202	1.205	134.46	67.5	0.429	
28	28 13C-1,2,3,4,7,8-HxCDF	4.43e5	0.49	NO	1.01	10.036	33.950	33.93	0.989	0.988	126.73	63.6	0.615	
29	29 13C-1,2,3,6,7,8-HxCDF	5.01e5	0.50	NO	1.17	10.036	34.074	34.06	0.992	0.992	123.84	62.1	0.531	
30	30 13C-2,3,4,6,7,8-HxCDF	4.27e5	0.50	NO	1.02	10.036	34.647	34.64	1.009	1.009	120.62	60.5	0.607	
31	31 13C-1,2,3,7,8,9-HxCDF	3.54e5	0.51	NO	0.860	10.036	35.547	35.56	1.035	1.036	118.87	59.6	0.721	

Dataset: U:\VG12.PRO\Results\200608R2\200608R2-11.qld

Last Altered: Thursday, June 11, 2020 4:01:16 PM Pacific Daylight Time

Printed: Thursday, June 11, 2020 4:01:46 PM Pacific Daylight Time

Name: 200608R2_11, Date: 09-Jun-2020, Time: 07:55:27, ID: 2001034-02 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.03e5	0.42	NO	0.774	10.036	37.295	37.33	1.086	1.087	112.72	56.6	0.443	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.11e5	0.44	NO	0.521	10.036	39.324	39.29	1.145	1.144	116.74	58.6	0.658	
34	34 13C-OCDF	4.80e5	0.88	NO	0.746	10.036	41.920	41.96	1.221	1.222	185.63	46.6	0.421	
35	35 37Cl-2,3,7,8-TCDD	2.69e5			1.04	10.036	26.538	26.50	1.028	1.026	61.426	77.1	0.0953	
36	36 13C-1,2,3,4-TCDD	8.41e5	0.79	NO	1.00	10.036	25.890	25.83	1.000	1.000	199.28	100	0.475	
37	37 13C-1,2,3,4-TCDF	1.23e6	0.79	NO	1.00	10.036	24.360	24.15	1.000	1.000	199.28	100	0.424	
38	38 13C-1,2,3,4,6,9-HxCDF	6.91e5	0.51	NO	1.00	10.036	34.420	34.33	1.000	1.000	199.28	100	0.620	
39	39 Total Tetra-Dioxins				0.888	10.036	24.620		0.000		33.276		0.144	33.3
40	40 Total Penta-Dioxins				0.908	10.036	29.960		0.000		86.706		0.383	111
41	41 Total Hexa-Dioxins				0.892	10.036	33.635		0.000		1618.8		1.21	1620
42	42 Total Hepta-Dioxins				0.864	10.036	37.640		0.000		9033.3		2.79	9030
43	43 Total Tetra-Furans				0.751	10.036	23.610		0.000		135.72		0.272	136 P
44	44 1st Func. Penta-Furans				0.893	10.036	27.580		0.000		96.900		0.0541	96.9
45	45 Total Penta-Furans				0.893	10.036	29.275		0.000		87.637		0.300	134 P
46	46 Total Hexa-Furans				0.934	10.036	33.555		0.000		233.72		0.404	234
47	47 Total Hepta-Furans				0.873	10.036	37.835		0.000		511.29		0.804	511

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200608R2\200608R2-11.qld

Last Altered: Thursday, June 11, 2020 4:01:16 PM Pacific Daylight Time

Printed: Thursday, June 11, 2020 4:01:46 PM Pacific Daylight Time

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

Name: 200608R2_11, Date: 09-Jun-2020, Time: 07:55:27, ID: 2001034-02 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.52	1.230e5	1.572e5	1.163e4	1.539e4	0.76	NO	2.702e4	9.4037	9.4037	0.144
2	Total Tetra-Dioxins	22.92	2.999e4	4.528e4	3.241e3	4.676e3	0.69	NO	7.917e3	2.7556	2.7556	0.144
3	Total Tetra-Dioxins	23.44	2.328e4	3.057e4	1.903e3	2.365e3	0.80	NO	4.267e3	1.4854	1.4854	0.144
4	Total Tetra-Dioxins	24.31	1.112e4	1.234e4	8.944e2	1.123e3	0.80	NO	2.017e3	0.70209	0.70209	0.144
5	Total Tetra-Dioxins	24.58	3.836e4	5.196e4	4.462e3	5.937e3	0.75	NO	1.040e4	3.6197	3.6197	0.144
6	Total Tetra-Dioxins	24.79	4.147e4	5.052e4	2.973e3	3.780e3	0.79	NO	6.753e3	2.3507	2.3507	0.144
7	Total Tetra-Dioxins	25.00	1.691e4	2.336e4	1.200e3	1.648e3	0.73	NO	2.848e3	0.99136	0.99136	0.144
8	Total Tetra-Dioxins	25.27	1.086e4	1.315e4	7.918e2	1.105e3	0.72	NO	1.896e3	0.66011	0.66011	0.144
9	Total Tetra-Dioxins	25.44	2.874e4	3.460e4	1.877e3	2.471e3	0.76	NO	4.347e3	1.5132	1.5132	0.144
10	Total Tetra-Dioxins	25.80	1.872e4	2.738e4	1.557e3	2.151e3	0.72	NO	3.708e3	1.2908	1.2908	0.144
11	Total Tetra-Dioxins	25.94	1.130e4	1.378e4	8.474e2	1.003e3	0.85	NO	1.850e3	0.64393	0.64393	0.144
12	Total Tetra-Dioxins	26.24	3.989e4	4.999e4	3.615e3	4.887e3	0.74	NO	8.502e3	2.9594	2.9594	0.144
13	Total Tetra-Dioxins	26.36	1.287e4	1.900e4	1.059e3	1.351e3	0.78	NO	2.410e3	0.83896	0.83896	0.144
14	2,3,7,8-TCDD	26.51	2.576e4	3.702e4	1.885e3	2.606e3	0.72	NO	4.491e3	1.5633	1.5633	0.144
15	Total Tetra-Dioxins	26.83	2.762e4	3.771e4	1.916e3	2.172e3	0.88	NO	4.087e3	1.4226	1.4226	0.144
16	Total Tetra-Dioxins	26.96	9.537e3	8.412e3	5.319e2	6.011e2	0.88	NO	1.133e3	0.39435	0.39435	0.144
17	Total Tetra-Dioxins	27.46	1.292e4	1.488e4	9.118e2	1.043e3	0.87	NO	1.955e3	0.68042	0.68042	0.144

Vista Analytical Laboratory

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Name: 200608R2_11, Date: 09-Jun-2020, Time: 07:55:27, ID: 2001034-02 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.24	3.561e5	5.864e5	2.824e4	4.779e4	0.59	NO	7.602e4	32.814	32.814	0.383
2	Total Penta-Dioxins	29.71	1.827e5	3.163e5	1.039e4	1.748e4	0.59	NO	2.787e4	12.030	12.030	0.383
3	Total Penta-Dioxins	30.23	2.176e5	3.584e5	1.287e4	2.174e4	0.59	NO	3.461e4	14.938	14.938	0.383
4	Total Penta-Dioxins	30.38	1.078e5	1.785e5	5.628e3	8.526e3	0.66	NO	1.415e4	6.1091	6.1091	0.383
5	Total Penta-Dioxins	30.49	9.779e4	1.550e5	6.108e3	9.026e3	0.68	NO	1.513e4	6.5322	6.5322	0.383
6	Total Penta-Dioxins	30.72	2.221e5	4.033e5	9.007e3	1.614e4	0.56	NO	0.000e0	0.00000	10.853	0.383
7	Total Penta-Dioxins	30.73	2.766e5	4.823e5	1.188e4	1.951e4	0.61	NO	0.000e0	0.00000	13.548	0.383
8	Total Penta-Dioxins	31.02	3.593e4	5.911e4	1.932e3	3.477e3	0.56	NO	5.409e3	2.3345	2.3345	0.383
9	1,2,3,7,8-PeCDD	31.45	6.560e4	8.750e4	2.712e3	3.864e3	0.70	NO	6.576e3	2.8385	2.8385	0.383
10	Total Penta-Dioxins	31.53	9.937e4	1.620e5	5.668e3	8.758e3	0.65	NO	1.443e4	6.2267	6.2267	0.383
11	Total Penta-Dioxins	31.74	1.510e4	1.010e4	3.527e2	4.982e2	0.71	NO	8.509e2	0.36726	0.36726	0.383
12	Total Penta-Dioxins	31.83	4.838e4	6.433e4	2.218e3	3.611e3	0.61	NO	5.829e3	2.5159	2.5159	0.383

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.32	1.216e7	9.837e6	6.195e5	5.030e5	1.23	NO	1.123e6	709.76	709.76	1.21
2	Total Hexa-Dioxins	33.88	1.307e6	1.054e6	7.260e4	5.828e4	1.25	NO	1.309e5	82.752	82.752	1.21
3	Total Hexa-Dioxins	34.13	7.517e6	6.067e6	5.480e5	4.423e5	1.24	NO	9.903e5	626.11	626.11	1.21
4	Total Hexa-Dioxins	34.24	4.595e5	3.680e5	2.599e4	2.092e4	1.24	NO	4.691e4	29.660	29.660	1.21
5	1,2,3,4,7,8-HxCDD	34.83	1.460e5	1.158e5	8.301e3	6.242e3	1.33	NO	1.454e4	9.0768	9.0768	1.14
6	1,2,3,6,7,8-HxCDD	34.93	1.236e6	9.870e5	7.796e4	6.209e4	1.26	NO	1.400e5	78.275	78.275	1.10
7	Total Hexa-Dioxins	35.12	6.716e5	5.199e5	4.482e4	3.516e4	1.27	NO	7.997e4	50.564	50.564	1.21
8	1,2,3,7,8,9-HxCDD	35.21	4.050e5	3.425e5	2.887e4	2.210e4	1.31	NO	5.097e4	32.617	32.617	1.24

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.73	3.322e7	3.262e7	2.836e6	2.790e6	1.02	NO	5.626e6	4665.5	4665.5	2.79
2	1,2,3,4,6,7,8-HpCDD	38.76	3.360e7	3.264e7	2.668e6	2.600e6	1.03	NO	5.268e6	4367.8	4367.8	2.79

* SEE DL.

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Name: 200608R2_11, Date: 09-Jun-2020, Time: 07:55:27, ID: 2001034-02 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.36	1.794e4	2.357e4	1.410e3	1.902e3	0.74	NO	3.312e3	1.0963	1.0963	0.272
2	Total Tetra-Furans	20.90	6.920e4	1.041e5	6.314e3	8.908e3	0.71	NO	1.522e4	5.0392	5.0392	0.272
3	Total Tetra-Furans	21.50	3.998e5	5.240e5	3.503e4	4.828e4	0.73	NO	8.331e4	27.580	27.580	0.272
4	Total Tetra-Furans	21.99	2.854e4	3.624e4	3.296e3	4.323e3	0.76	NO	7.619e3	2.5223	2.5223	0.272
5	Total Tetra-Furans	22.10	2.865e4	3.234e4	2.655e3	3.244e3	0.82	NO	5.899e3	1.9528	1.9528	0.272
6	Total Tetra-Furans	22.40	2.223e4	3.117e4	9.333e2	1.402e3	0.67	NO	2.336e3	0.77323	0.77323	0.272
7	Total Tetra-Furans	22.49	1.252e5	1.765e5	1.260e4	1.772e4	0.71	NO	3.032e4	10.038	10.038	0.272
8	Total Tetra-Furans	22.97	1.827e5	2.300e5	1.741e4	2.256e4	0.77	NO	3.997e4	13.233	13.233	0.272
9	Total Tetra-Furans	23.13	8.592e3	1.251e4	6.894e2	1.022e3	0.67	NO	1.712e3	0.56670	0.56670	0.272
10	Total Tetra-Furans	23.37	2.545e4	3.354e4	1.994e3	3.037e3	0.66	NO	5.032e3	1.6658	1.6658	0.272
11	Total Tetra-Furans	23.74	5.565e3	7.554e3	4.567e2	5.631e2	0.81	NO	1.020e3	0.33760	0.33760	0.272
12	Total Tetra-Furans	23.91	4.055e4	4.425e4	2.988e3	3.530e3	0.85	NO	6.518e3	2.1579	2.1579	0.272
13	Total Tetra-Furans	24.07	2.067e5	2.983e5	1.761e4	2.437e4	0.72	NO	4.198e4	13.898	13.898	0.272
14	Total Tetra-Furans	24.13	6.069e4	8.529e4	5.152e3	6.437e3	0.80	NO	1.159e4	3.8367	3.8367	0.272
15	Total Tetra-Furans	24.69	2.792e5	3.811e5	2.202e4	2.953e4	0.75	NO	5.155e4	17.065	17.065	0.272
16	Total Tetra-Furans	24.97	1.618e4	2.057e4	1.224e3	1.548e3	0.79	NO	2.772e3	0.91772	0.91772	0.272
17	Total Tetra-Furans	25.15	1.747e4	1.775e4	1.019e3	1.480e3	0.69	NO	2.498e3	0.82701	0.82701	0.272
18	Total Tetra-Furans	25.39	1.665e4	2.075e4	1.079e3	1.430e3	0.75	NO	2.510e3	0.83079	0.83079	0.272
19	Total Tetra-Furans	25.50	6.790e4	1.031e5	4.109e3	5.743e3	0.72	NO	9.852e3	3.2615	3.2615	0.272
20	2,3,7,8-TCDF	25.61	3.160e5	4.326e5	2.438e4	3.234e4	0.75	NO	5.672e4	18.776	18.776	0.272
21	Total Tetra-Furans	26.00	3.334e4	4.866e4	2.696e3	3.571e3	0.75	NO	6.267e3	2.0747	2.0747	0.272
22	Total Tetra-Furans	26.21	5.335e3	7.528e3	4.329e2	5.203e2	0.83	NO	9.532e2	0.31556	0.31556	0.272
23	Total Tetra-Furans	27.14	2.834e4	4.498e4	1.892e3	2.436e3	0.78	NO	4.328e3	1.4329	1.4329	0.272
24	Total Tetra-Furans	27.31	5.049e4	6.340e4	2.931e3	3.979e3	0.74	NO	6.911e3	2.2878	2.2878	0.272
25	Total Tetra-Furans	27.62	7.200e4	7.647e4	4.520e3	5.236e3	0.86	NO	9.756e3	3.2296	3.2296	0.272

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Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Fresp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.61	2.972e6	1.818e6	1.896e5	1.166e5	1.63	NO	3.062e5	96.900	96.900	0.0541

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.04	9.375e4	7.207e4	5.671e3	4.137e3	1.37	NO	9.809e3	3.1042	3.1042	0.300
2	Total Penta-Furans	29.19	1.169e6	7.544e5	8.367e4	5.333e4	1.57	NO	0.000e0	0.00000	43.357	0.300
3	Total Penta-Furans	29.24	1.717e5	1.192e5	5.671e3	3.864e3	1.47	NO	0.000e0	0.00000	3.0174	0.300
4	Total Penta-Furans	29.77	5.953e5	3.476e5	3.712e4	2.323e4	1.60	NO	6.035e4	19.099	19.099	0.300
5	Total Penta-Furans	29.99	1.134e5	7.036e4	6.640e3	3.920e3	1.69	NO	1.056e4	3.3421	3.3421	0.300
6	1,2,3,7,8-PeCDF	30.18	6.934e5	4.309e5	4.451e4	2.807e4	1.59	NO	7.257e4	22.060	22.060	0.307
7	Total Penta-Furans	30.46	4.208e5	2.774e5	2.511e4	1.567e4	1.60	NO	4.078e4	12.908	12.908	0.300
8	Total Penta-Furans	31.04	3.191e4	2.595e4	1.714e3	1.260e3	1.36	NO	2.974e3	0.94120	0.94120	0.300
9	2,3,4,7,8-PeCDF	31.18	6.764e5	4.046e5	3.756e4	2.293e4	1.64	NO	6.048e4	19.060	19.060	0.279
10	Total Penta-Furans	31.19	5.393e5	3.543e5	1.145e4	7.512e3	1.52	NO	1.896e4	6.0013	6.0013	0.300
11	Total Penta-Furans	32.09	3.240e4	1.852e4	2.059e3	1.482e3	1.39	NO	3.540e3	1.1205	1.1205	0.300

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.79	2.949e5	2.361e5	1.780e4	1.439e4	1.24	NO	3.219e4	15.924	15.924	0.404
2	Total Hexa-Furans	32.97	1.542e6	1.253e6	5.791e4	4.783e4	1.21	NO	1.057e5	52.301	52.301	0.404
3	Total Hexa-Furans	33.31	2.046e4	1.480e4	1.149e3	8.999e2	1.28	NO	2.049e3	1.0136	1.0136	0.404
4	Total Hexa-Furans	33.48	2.093e6	1.697e6	1.010e5	8.358e4	1.21	NO	1.846e5	91.302	91.302	0.404
5	Total Hexa-Furans	33.86	2.429e4	2.174e4	1.255e3	9.611e2	1.31	NO	2.216e3	1.0963	1.0963	0.404
6	1,2,3,4,7,8-HxCDF	33.95	8.785e5	7.196e5	4.803e4	4.068e4	1.18	NO	8.870e4	45.149	45.149	0.367
7	1,2,3,6,7,8-HxCDF	34.07	2.612e5	2.136e5	1.597e4	1.311e4	1.22	NO	2.908e4	13.008	13.008	0.359
8	2,3,4,6,7,8-HxCDF	34.65	1.669e5	1.198e5	9.779e3	7.389e3	1.32	NO	1.717e4	8.5715	8.5715	0.408
9	1,2,3,7,8,9-HxCDF	35.61	7.420e4	5.677e4	3.782e3	3.104e3	1.22	NO	6.887e3	4.4498	4.4498	0.600
10	Total Hexa-Furans	35.63	4.684e4	3.781e4	1.007e3	8.200e2	1.23	NO	1.827e3	0.90355	0.90355	0.404

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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	37.34	1.340e6	1.297e6	1.039e5	1.031e5	1.01	NO	2.070e5	156.07	156.07	0.701
2	Total Hepta-Furans	37.74	1.911e4	2.366e4	1.415e3	1.416e3	1.00	NO	2.831e3	2.5154	2.5154	0.804
3	Total Hepta-Furans	37.96	2.361e6	2.346e6	1.925e5	1.925e5	1.00	NO	3.850e5	342.12	342.12	0.804
4	1,2,3,4,7,8,9-HpCDF	39.30	8.286e4	8.423e4	5.710e3	5.641e3	1.01	NO	1.135e4	10.591	10.591	0.820

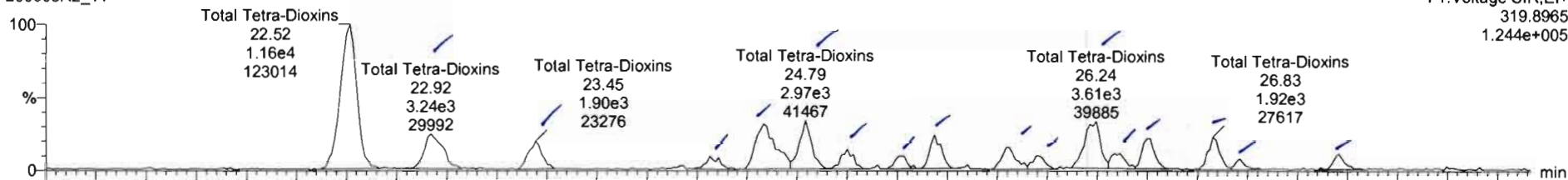
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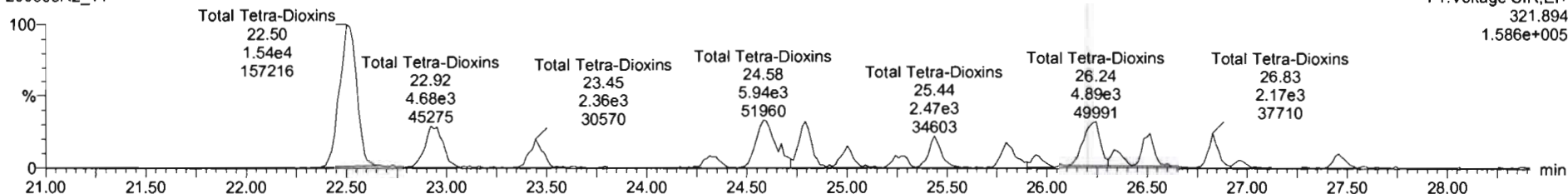
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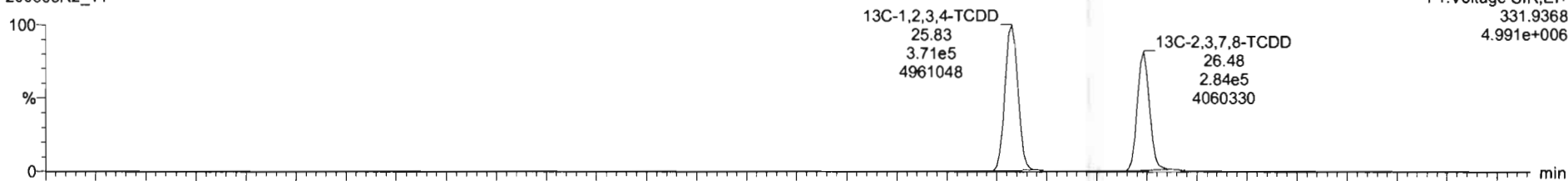


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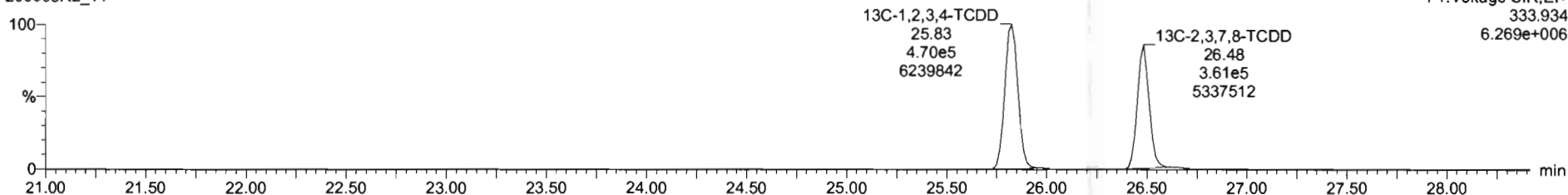


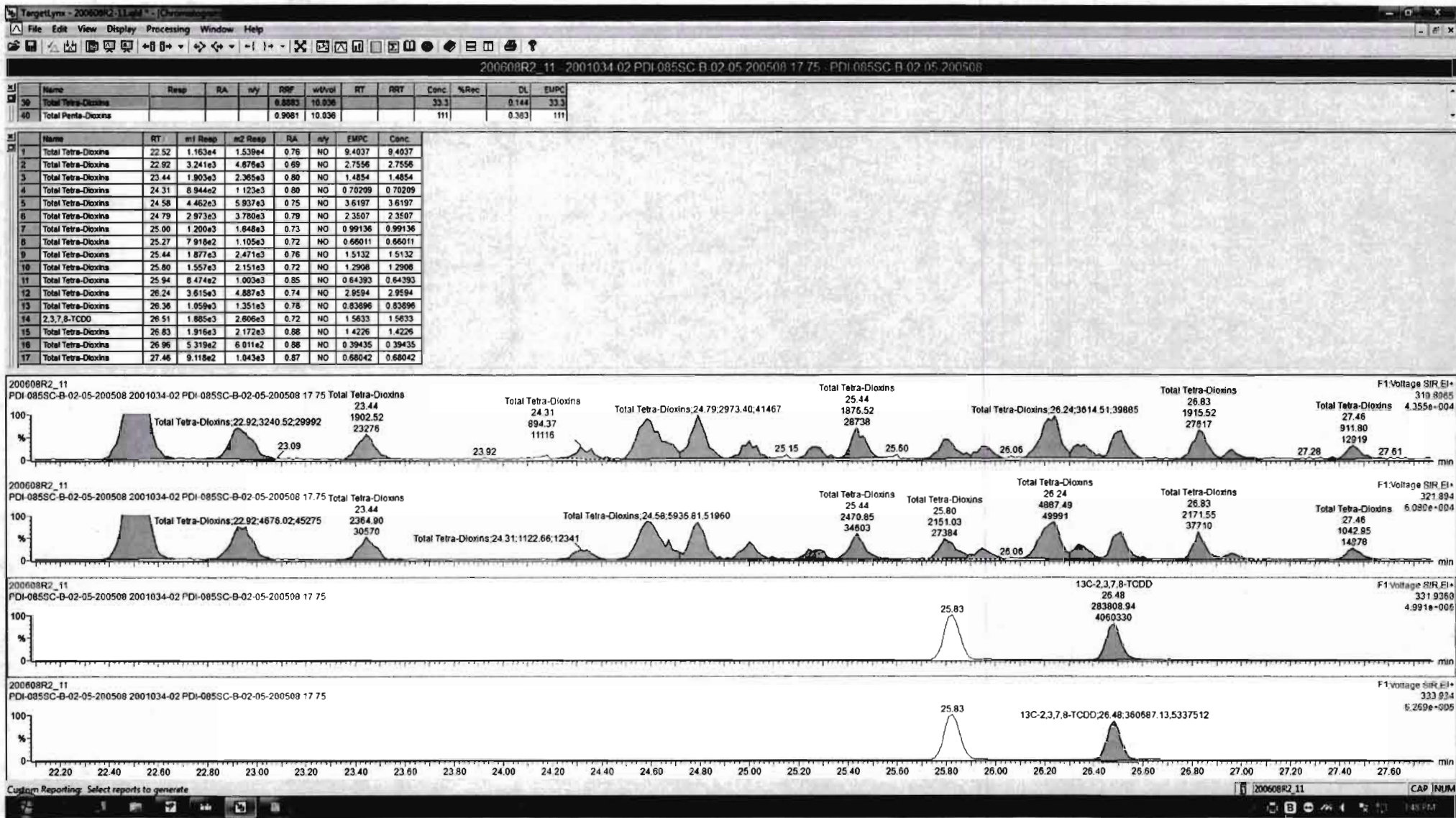
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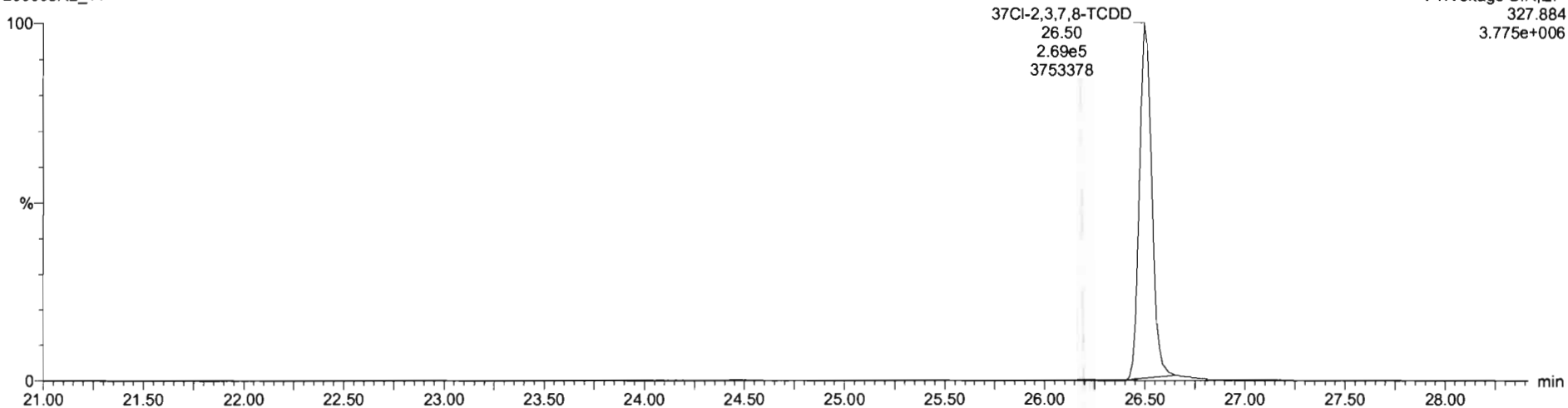
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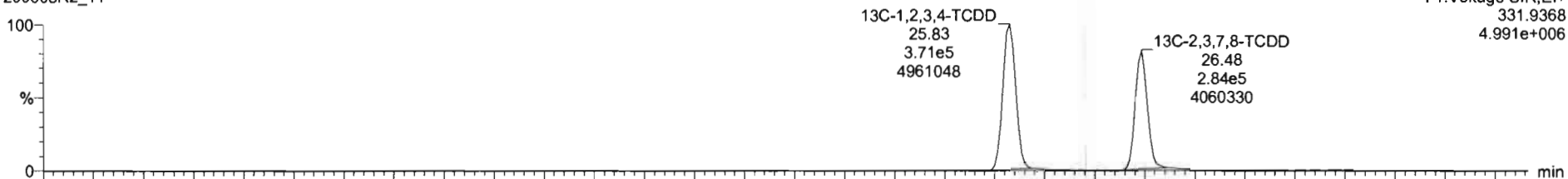
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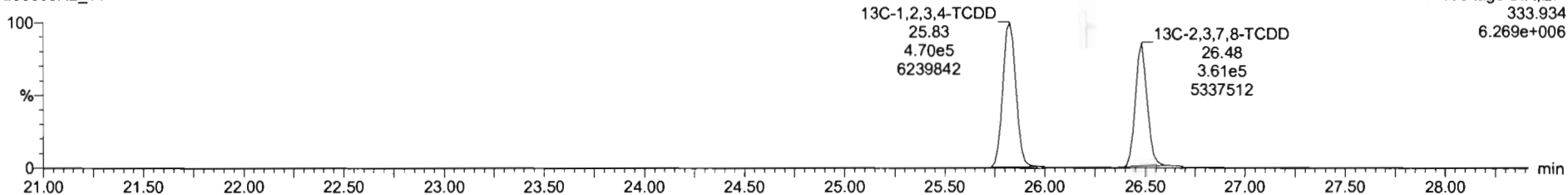


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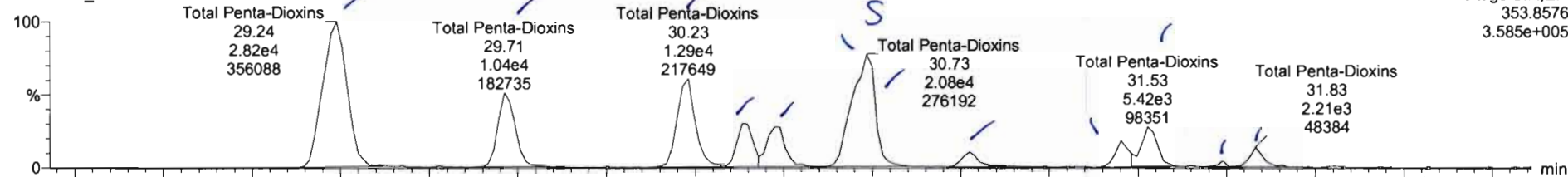
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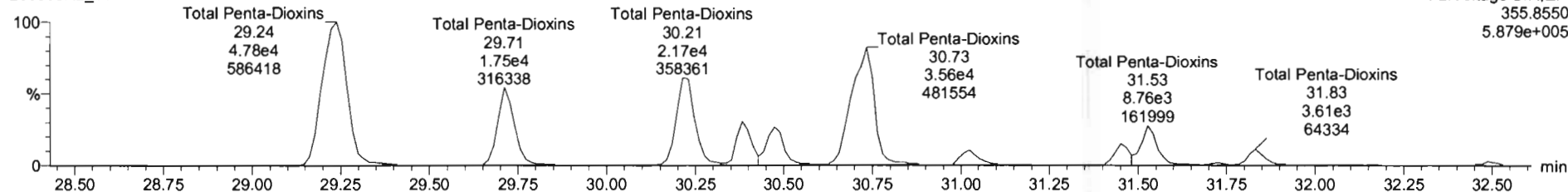
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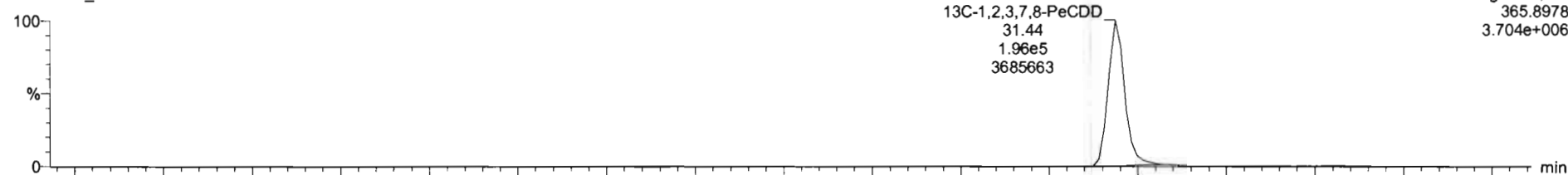


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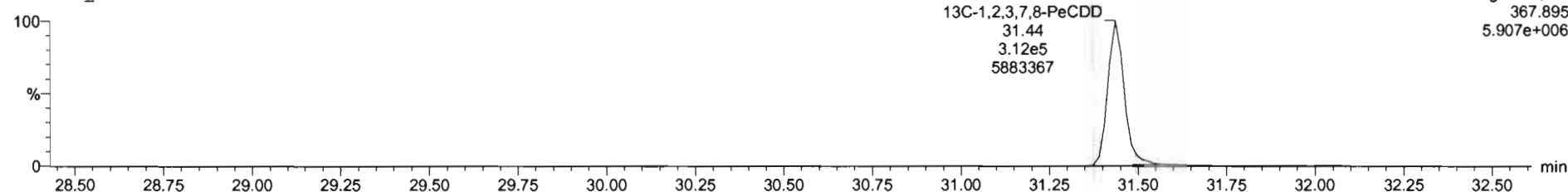


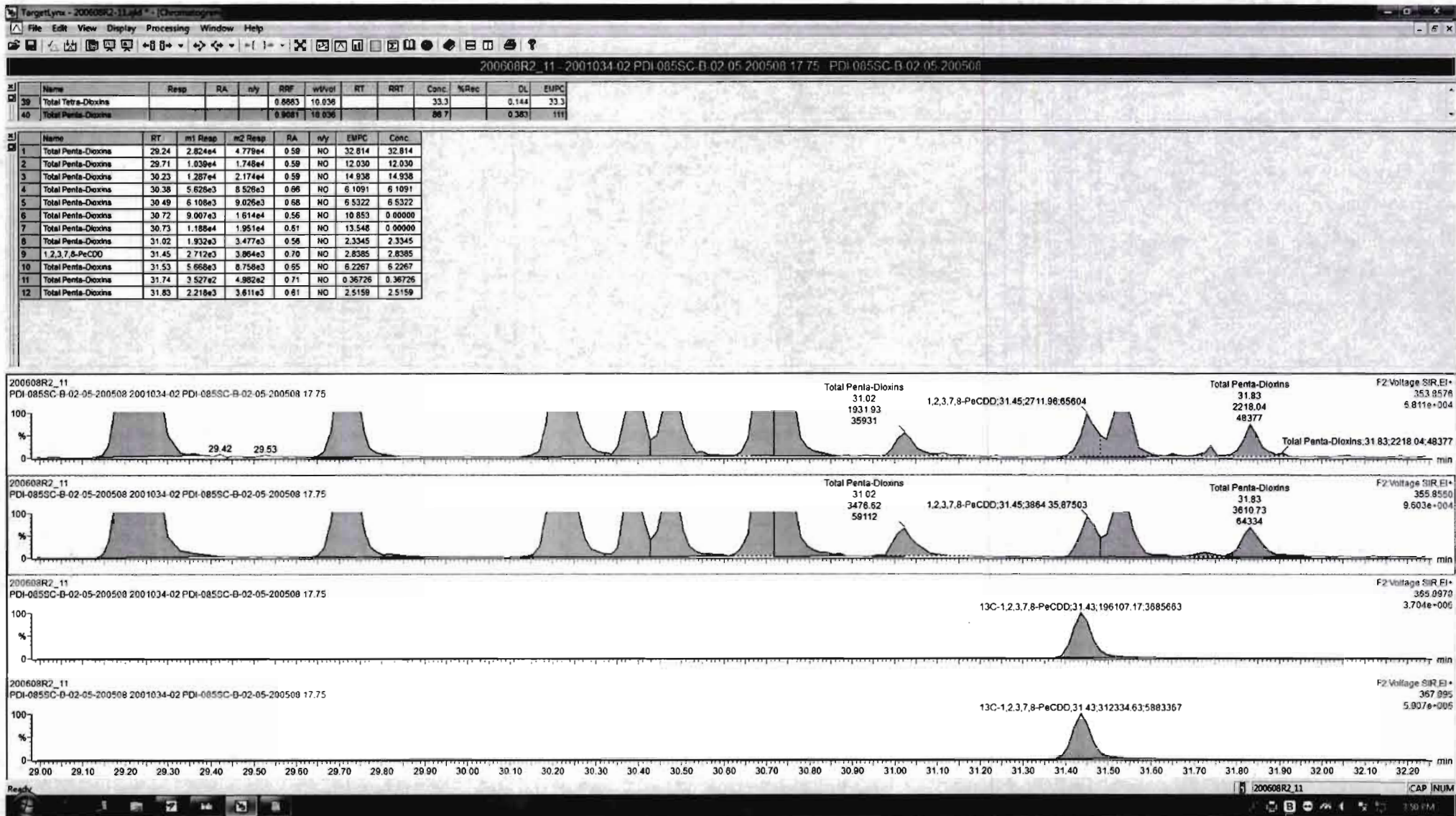
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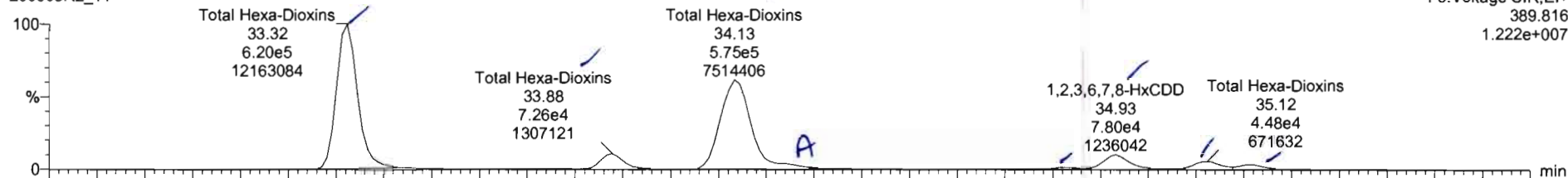
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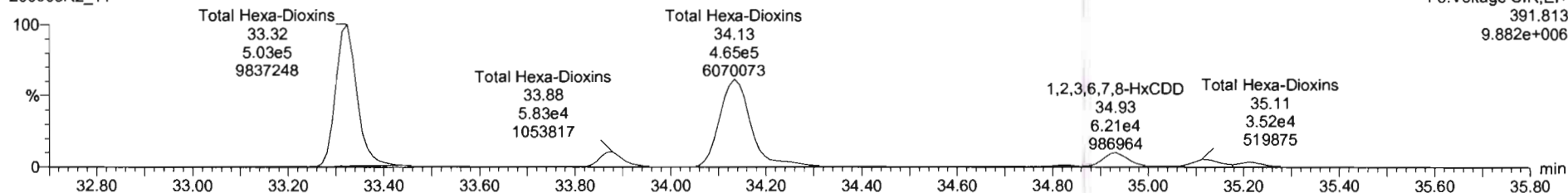
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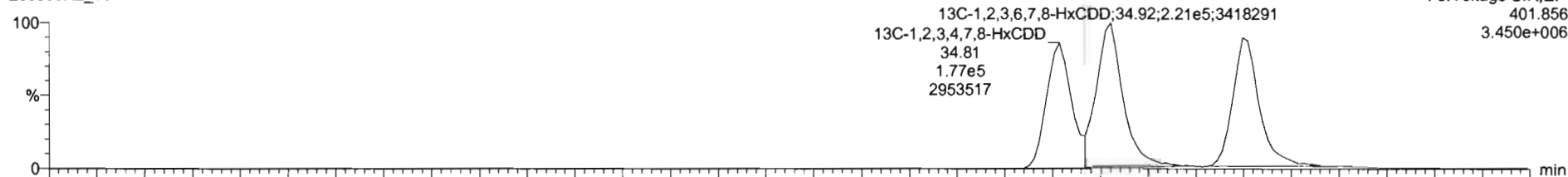


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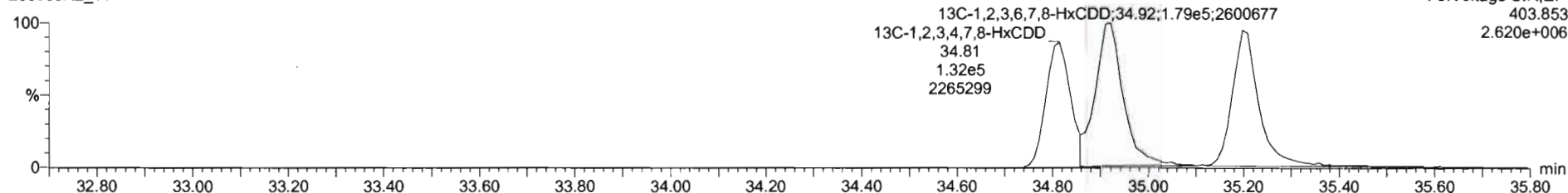


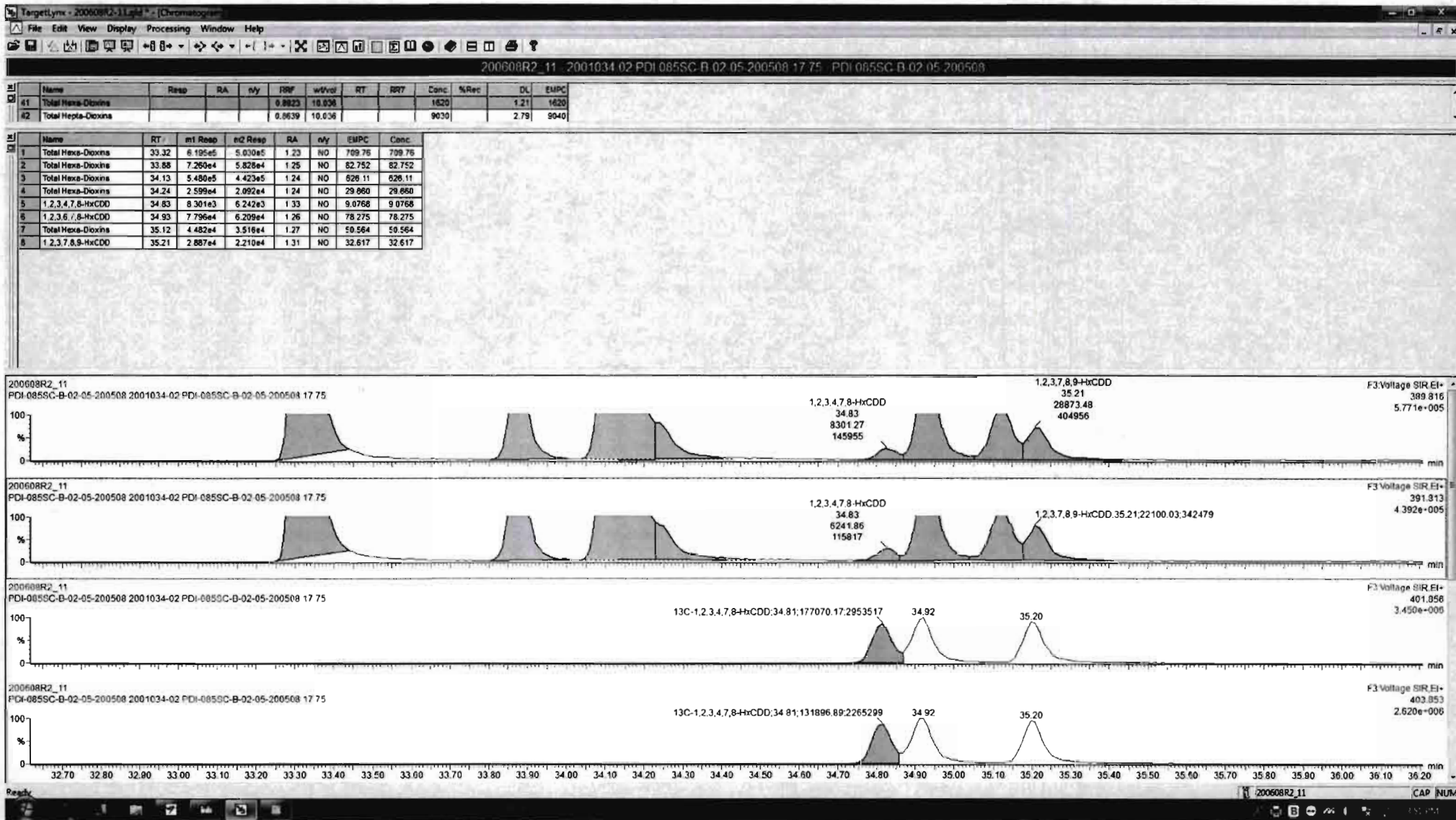
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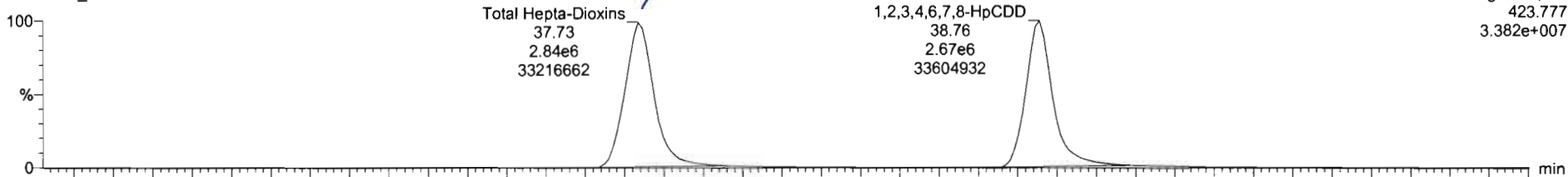
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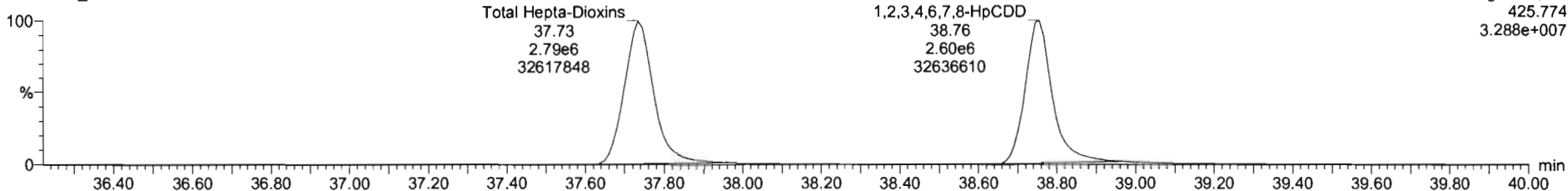
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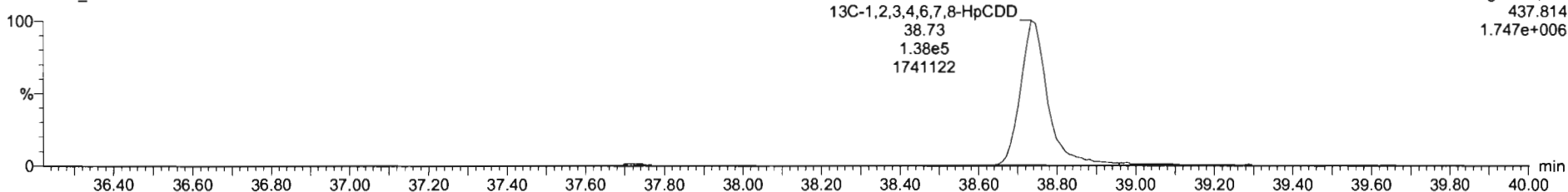


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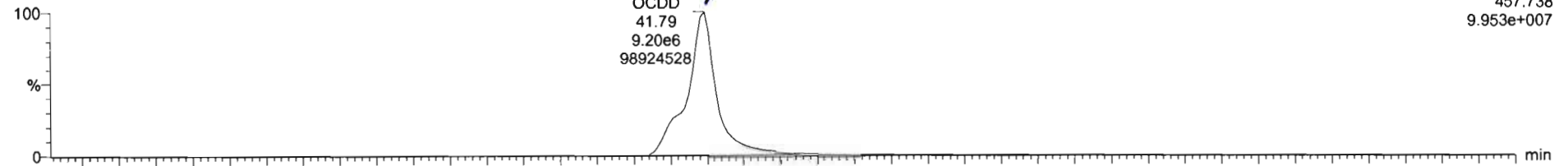
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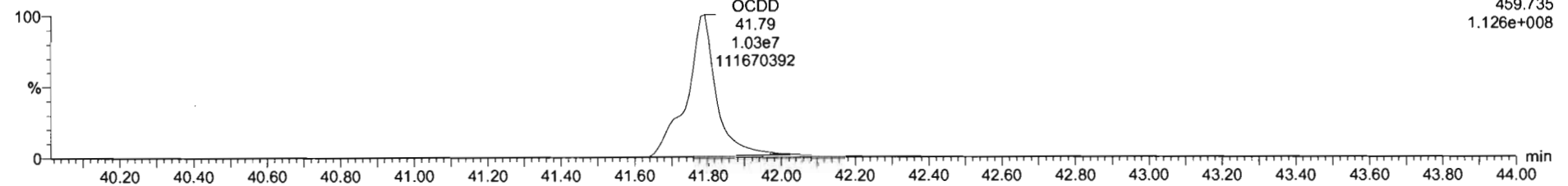
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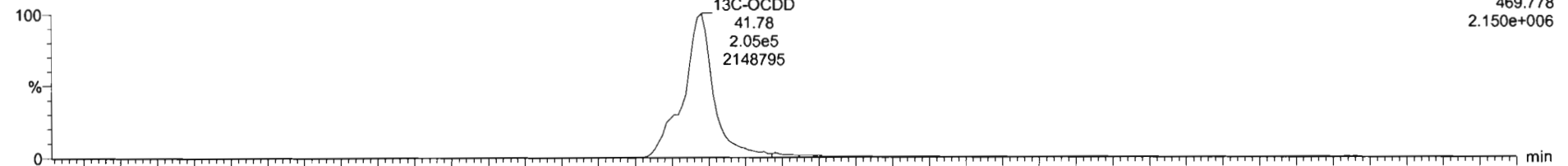


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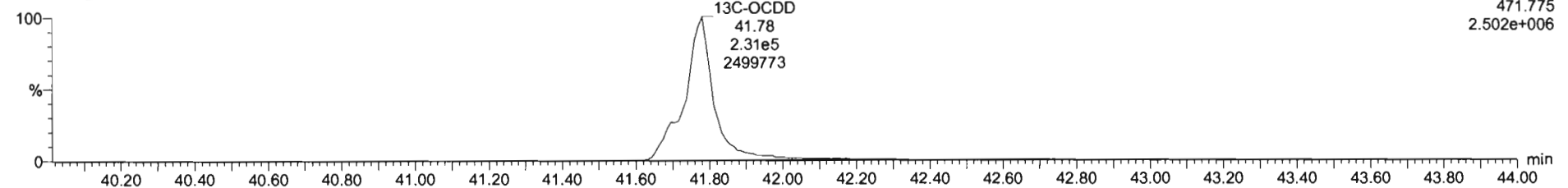


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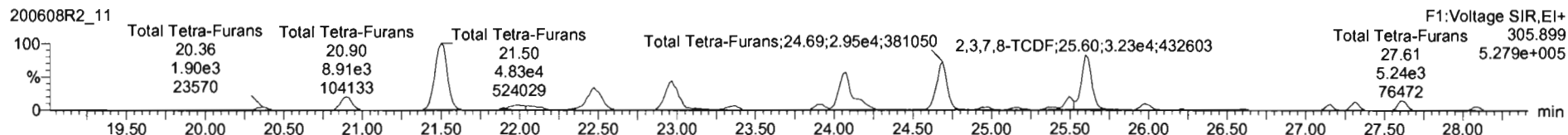
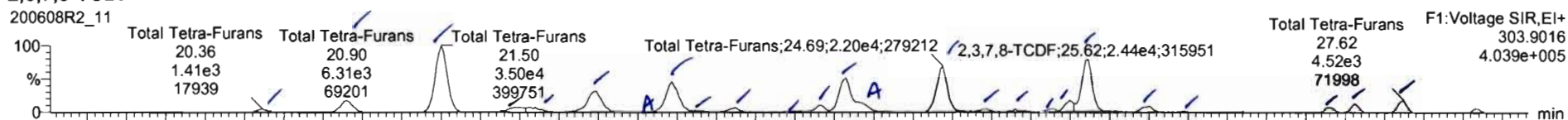
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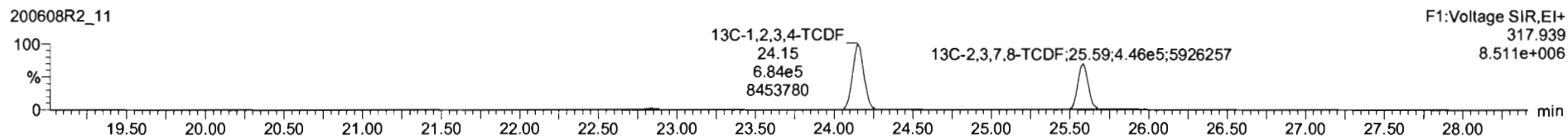
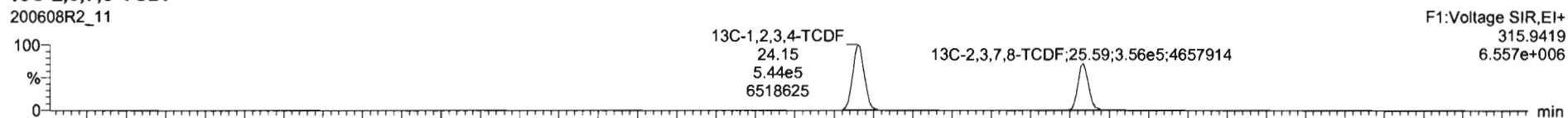
Printed: Tuesday, June 09, 2020 09:12:13 Pacific Daylight Time

Name: 200608R2_11, Date: 09-Jun-2020, Time: 07:55:27, ID: 2001034-02 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

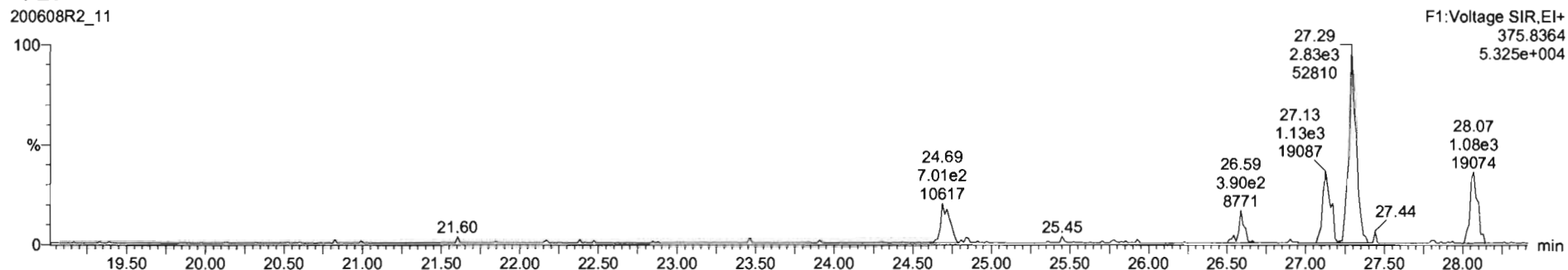
2,3,7,8-TCDF

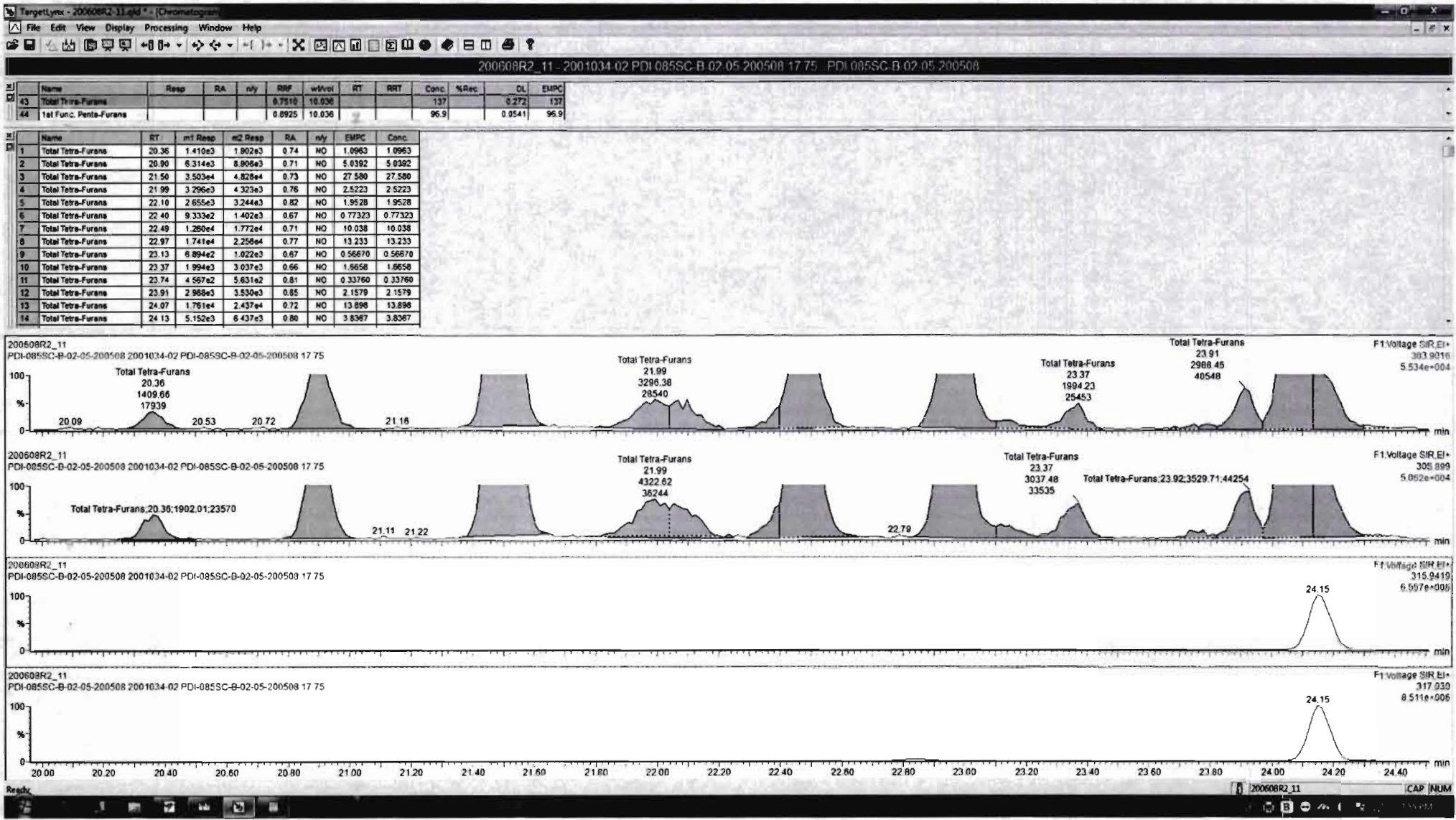


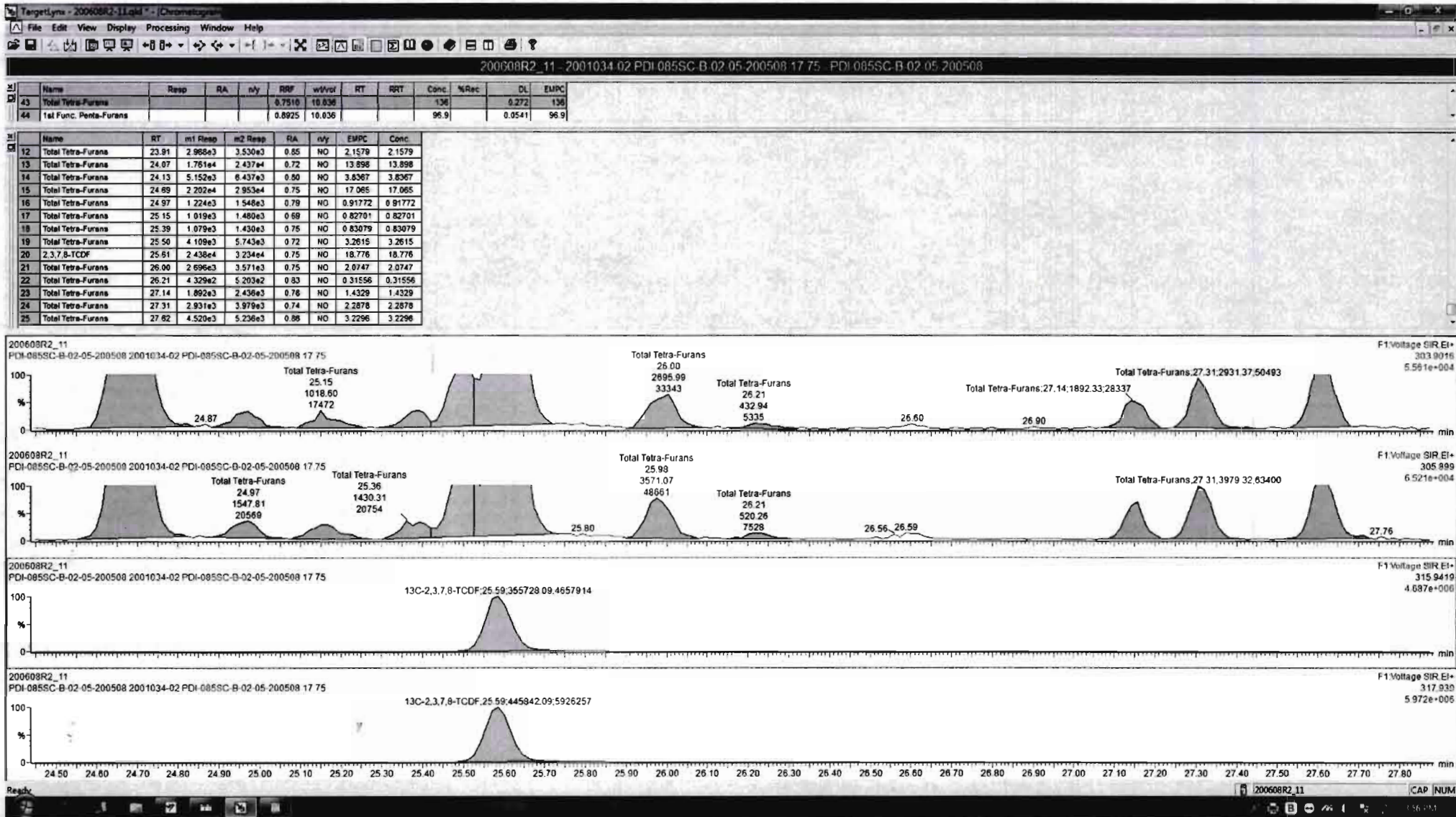
13C-2,3,7,8-TCDF



DPE1







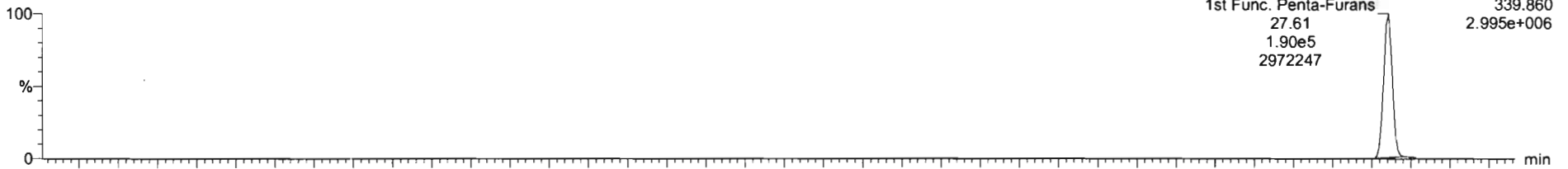
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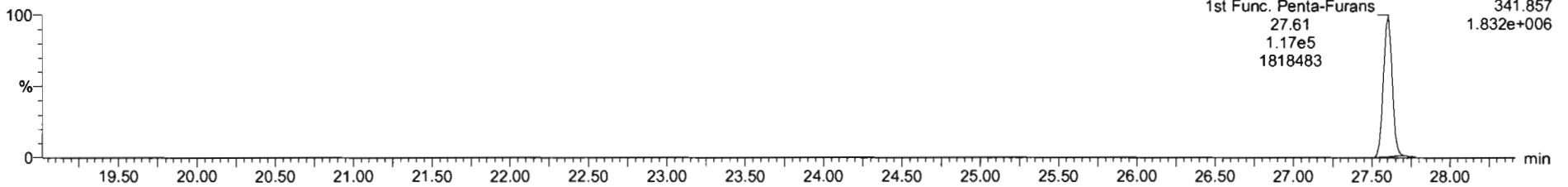
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1st Func. Penta-Furans

200608R2_11

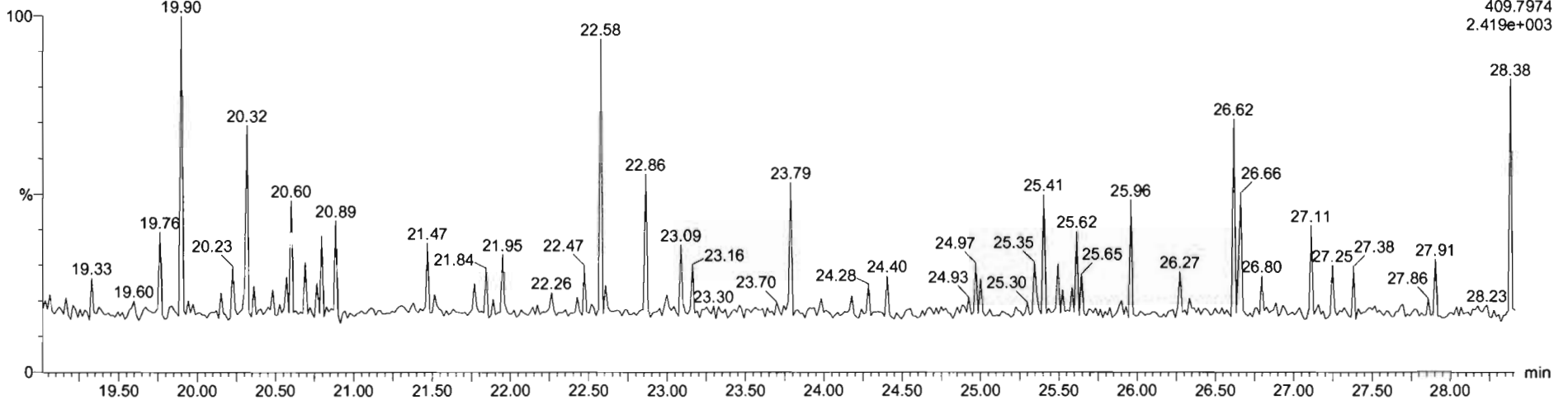


200608R2_11



DPE6

200608R2_11

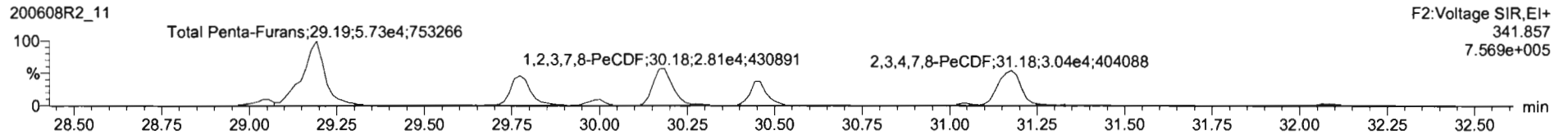
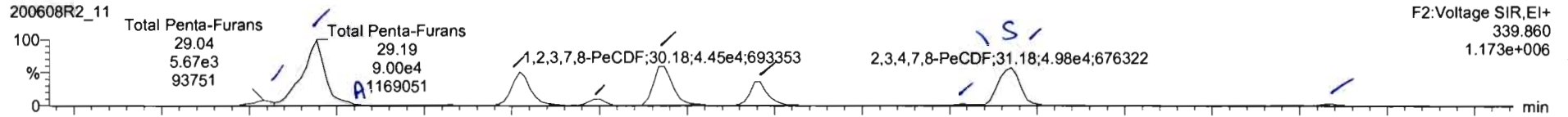


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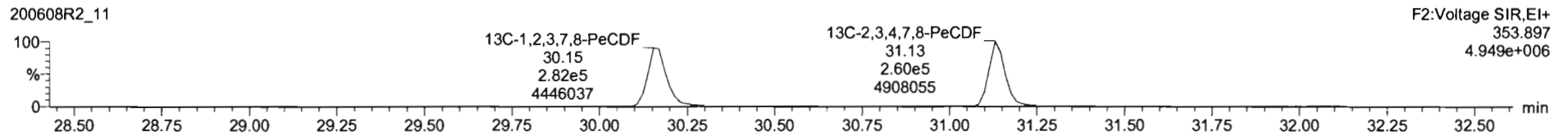
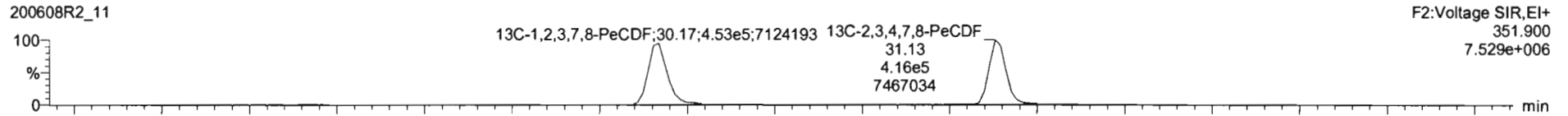
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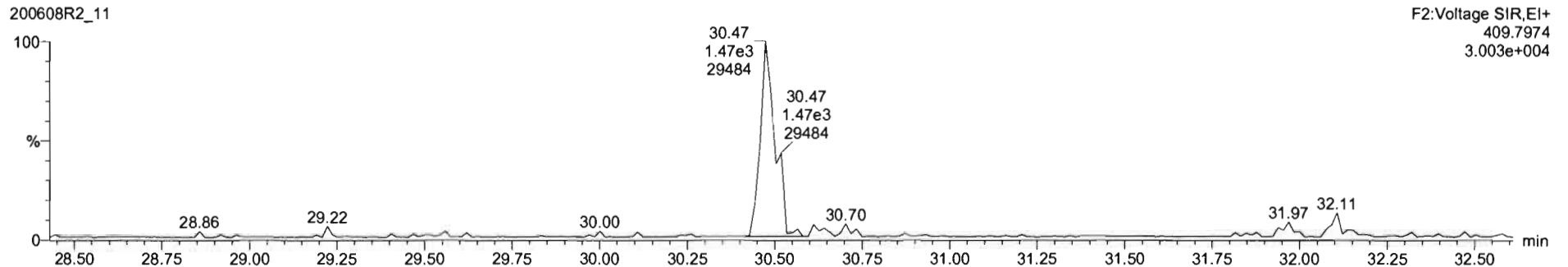
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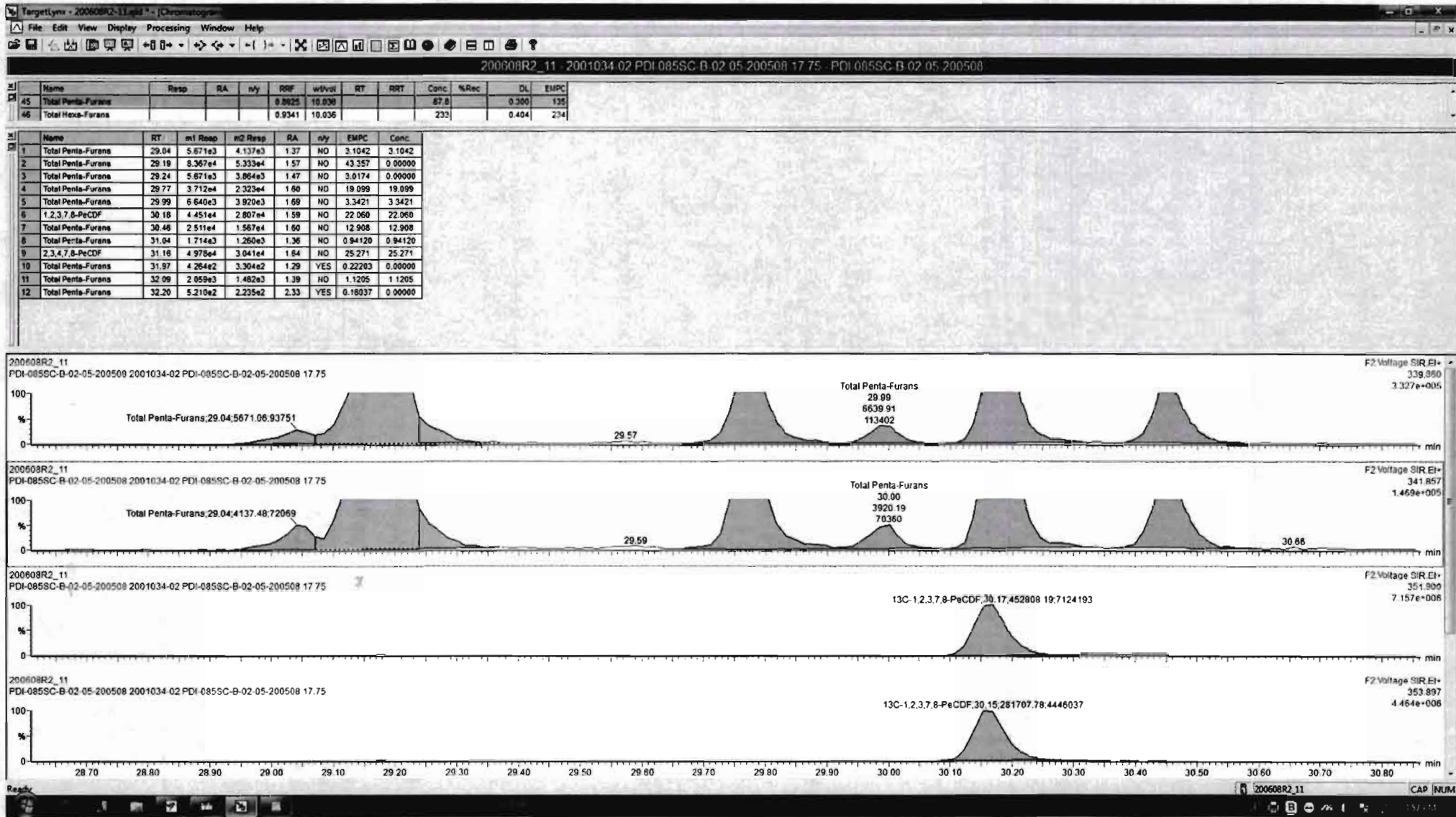


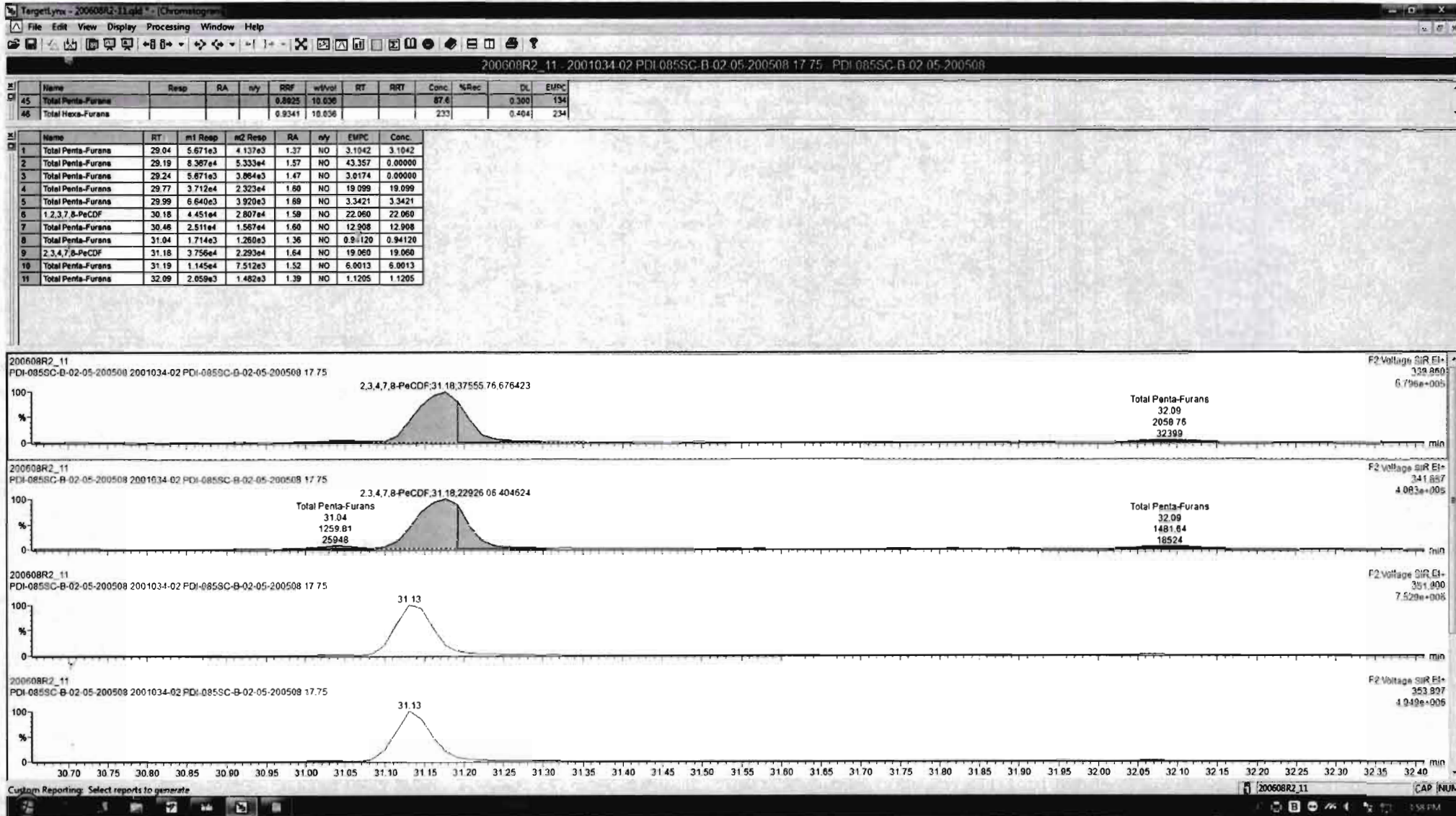
13C-1,2,3,7,8-PeCDF



DPE2





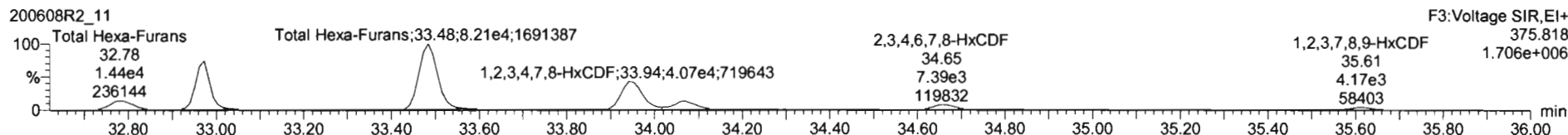
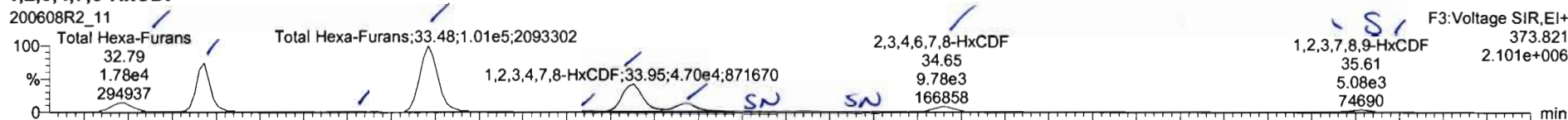


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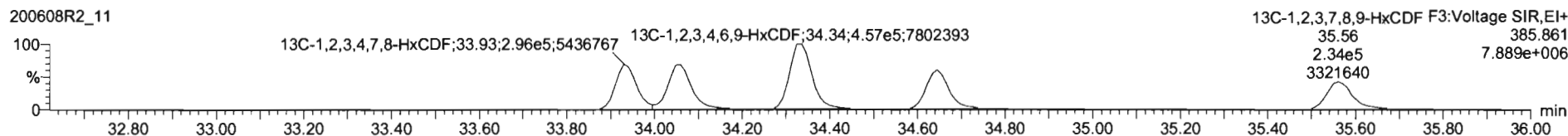
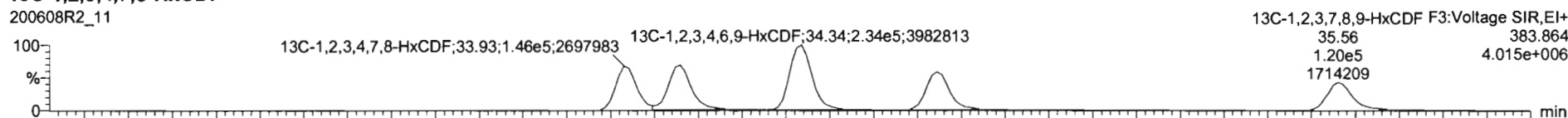
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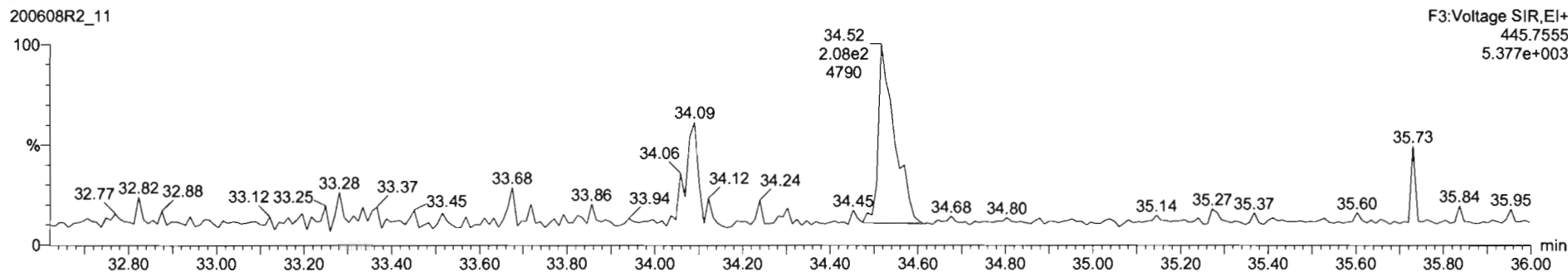
1,2,3,4,7,8-HxCDF

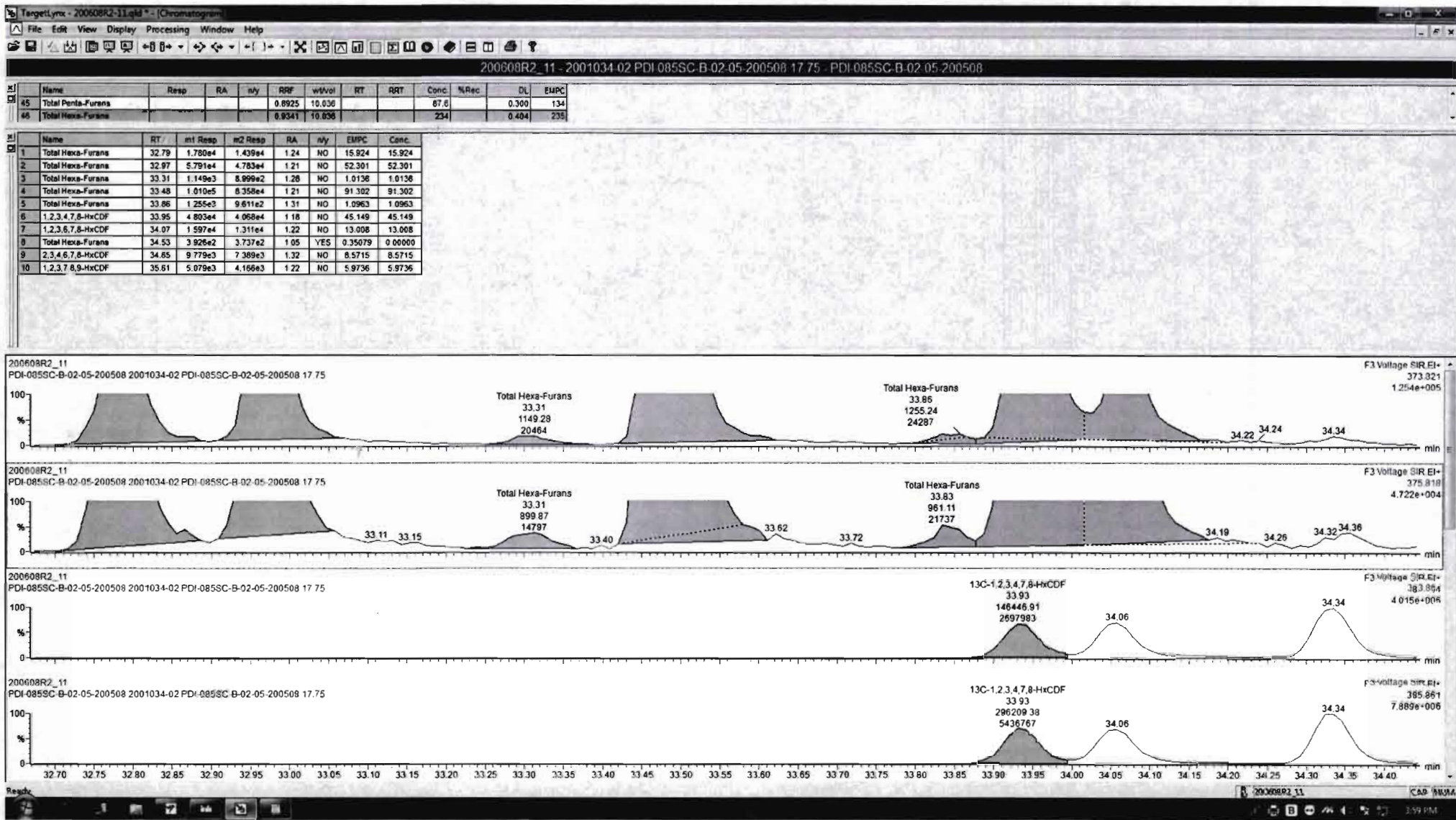


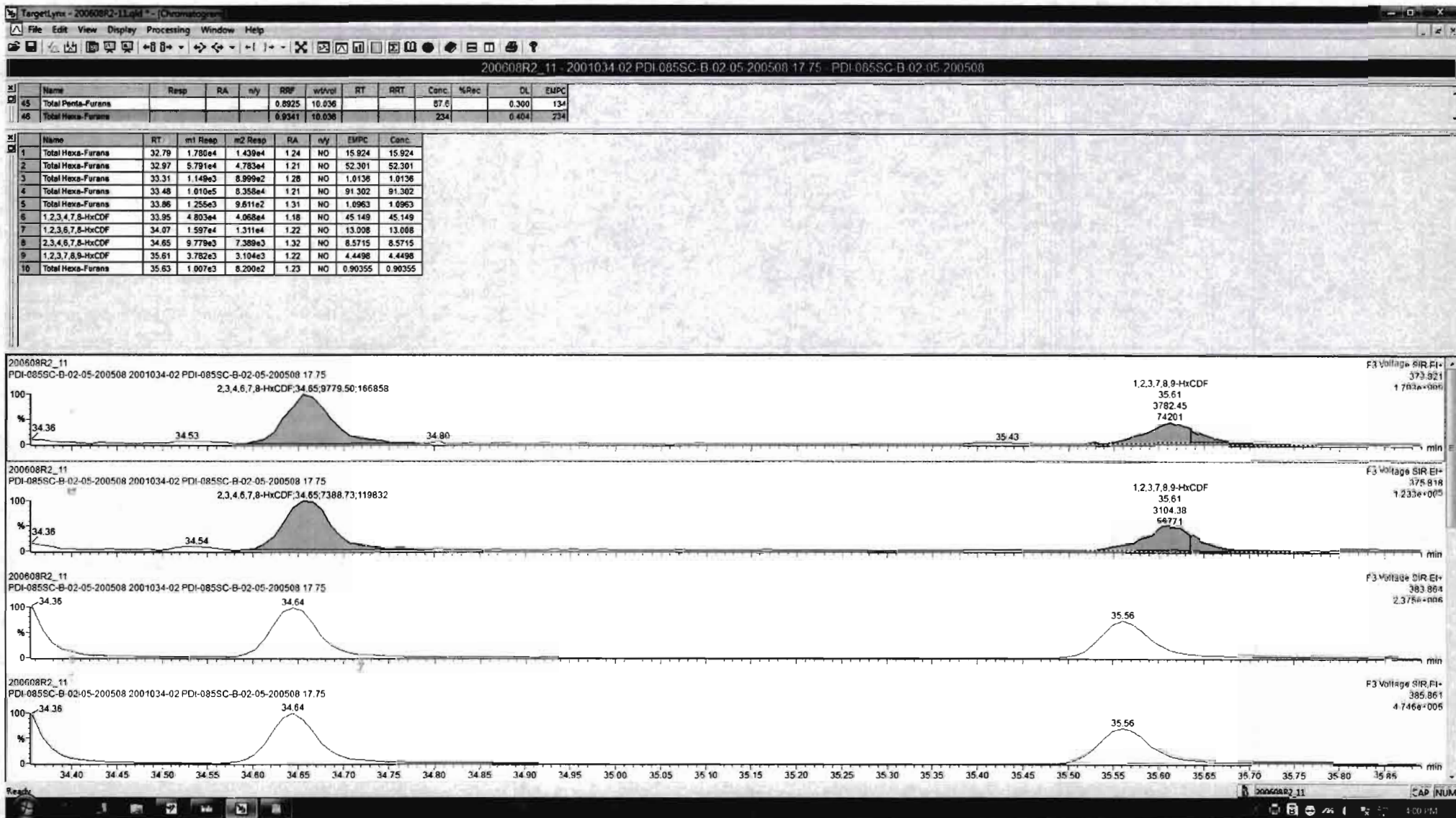
13C-1,2,3,4,7,8-HxCDF



DPE3







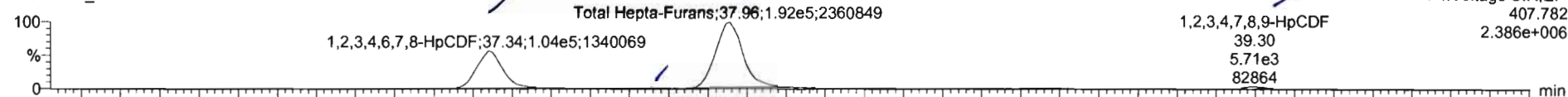
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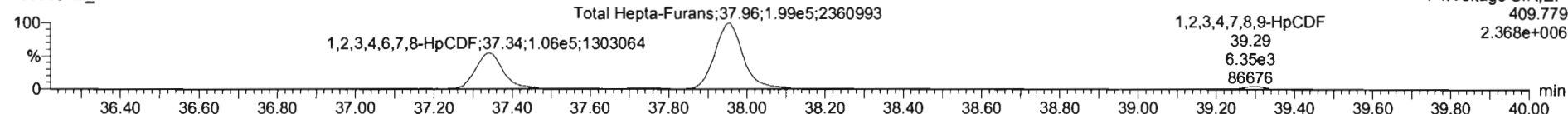
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1,2,3,4,6,7,8-HpCDF

200608R2_11

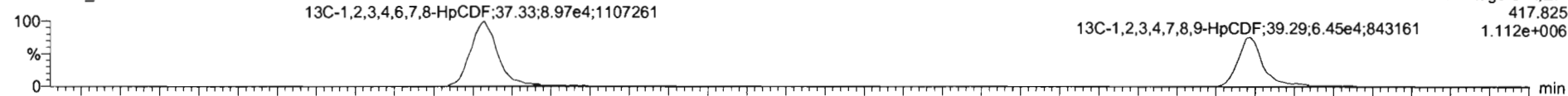


200608R2_11

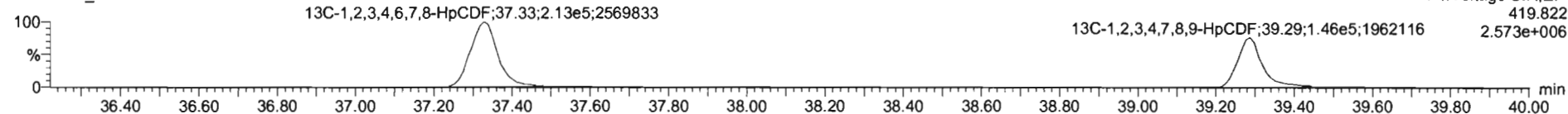


13C-1,2,3,4,6,7,8-HpCDF

200608R2_11

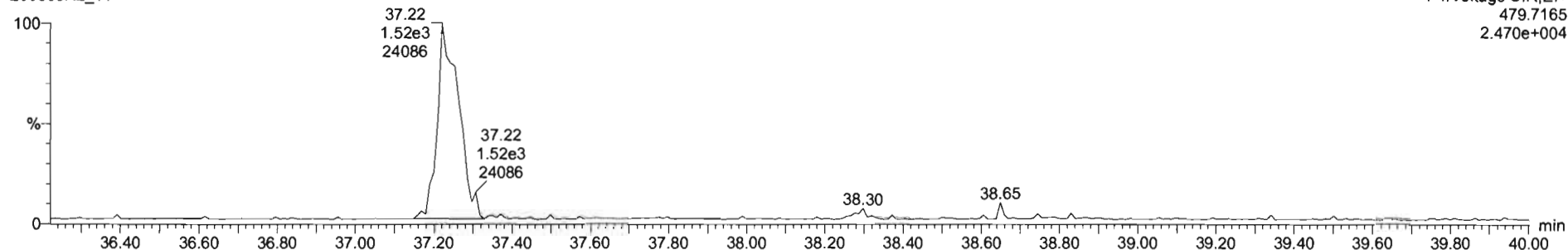


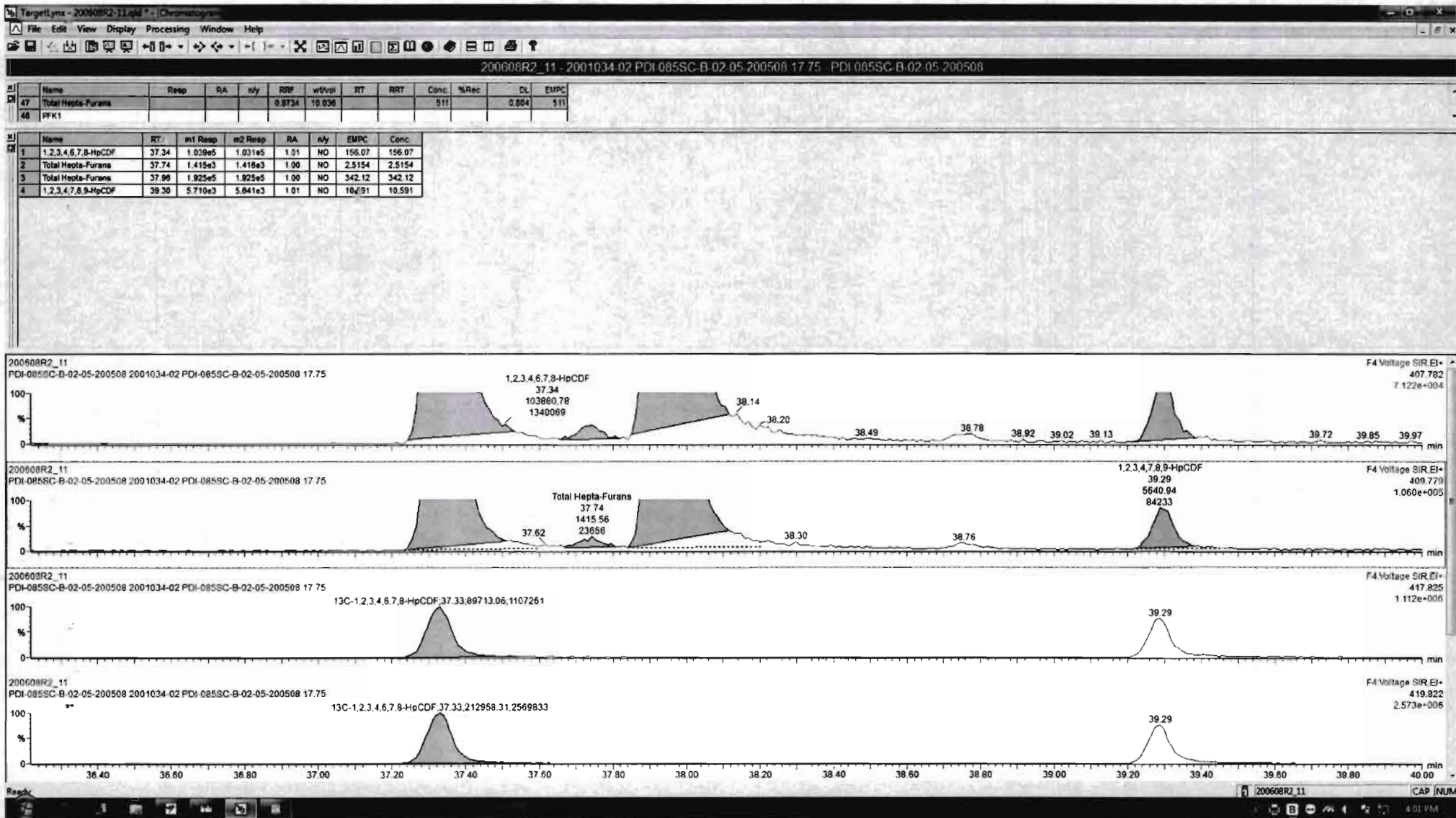
200608R2_11



DPE4

200608R2_11

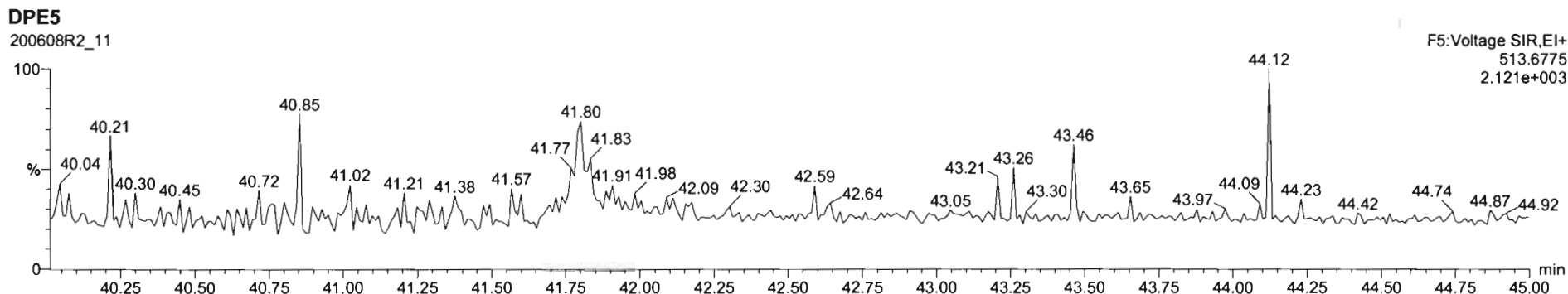
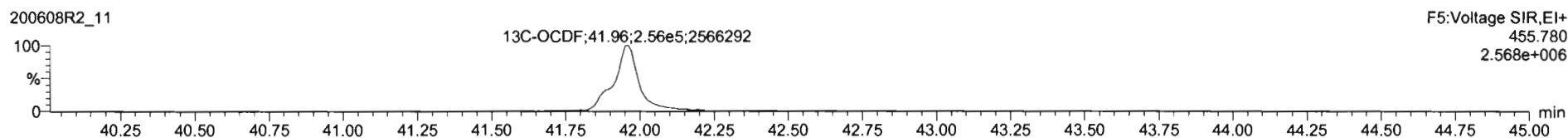
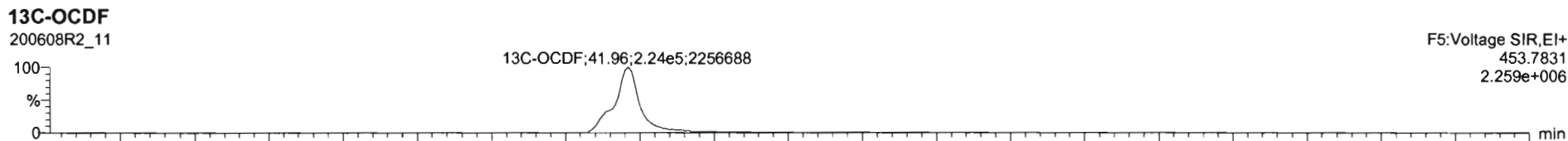
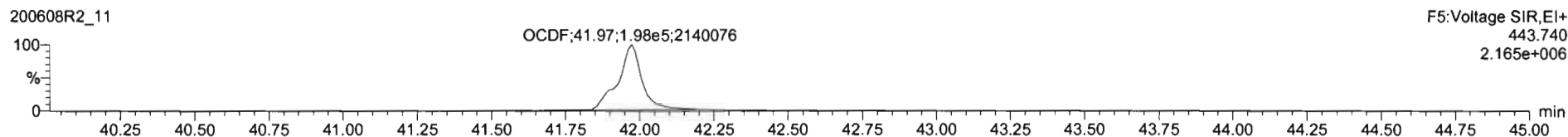
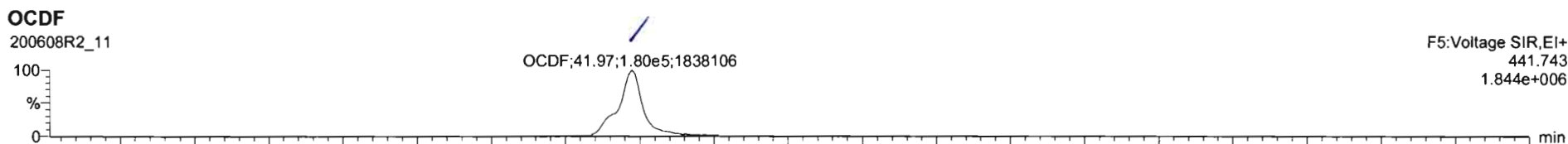




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Name: 200608R2_11, Date: 09-Jun-2020, Time: 07:55:27, ID: 2001034-02 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508



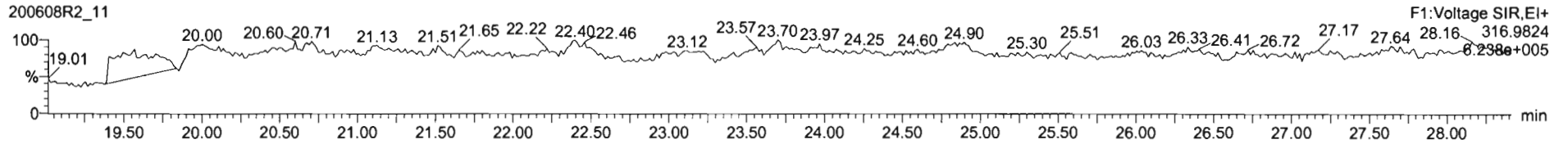
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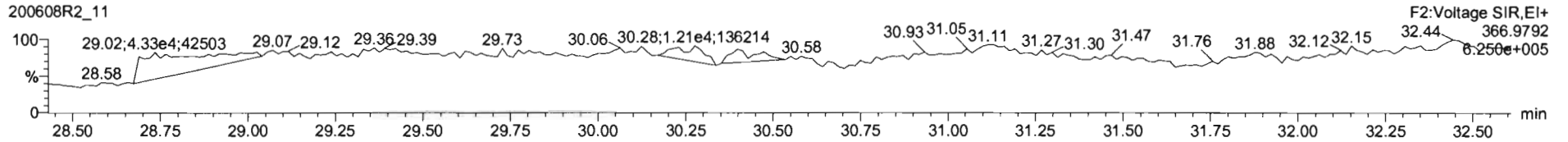
PFK1

200608R2_11



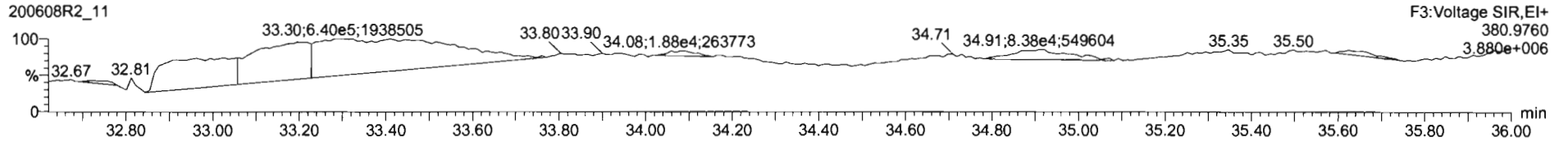
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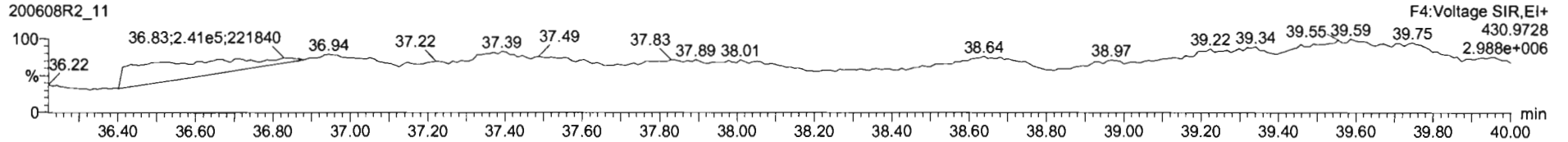
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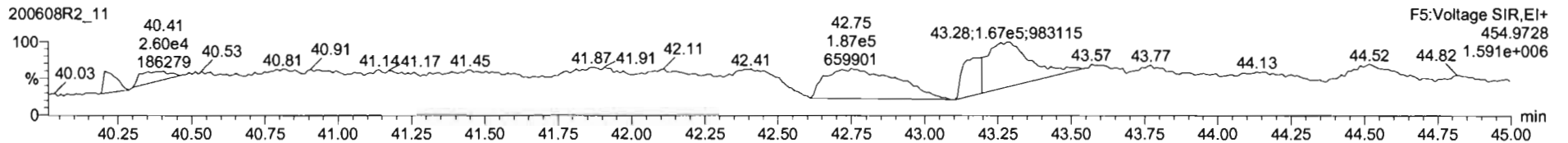
PFK4

200608R2_11



PFK5

200608R2_11



Dataset: U:\VG12.PRO\Results\200611R1\200611R1-15.qld

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GRB 06/12/2020

CT06/12/2020

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

Name: 200611R1_15, Date: 11-Jun-2020, Time: 20:12:59, ID: 2001034-02@5X PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	4.40e5	1.03	NO	0.864	10.036	38.756	38.76	1.000	1.000	4812.6		9.30	4810
2	7 OCDD	1.31e6	0.88	NO	0.914	10.036	41.716	41.73	1.000	1.000	22758		10.8	22800
3	23 13C-1,2,3,4,6,7,8-HpCDD	2.11e4	1.03	NO	0.689	10.036	38.727	38.74	1.128	1.128	85.741	43.0	1.17	
4	24 13C-OCDD	2.51e4	0.90	NO	0.652	10.036	41.749	41.72	1.216	1.215	108.08	27.1	0.864	
5	35 37Cl-2,3,7,8-TCDD	2.55e4			1.04	10.036	26.538	26.51	1.028	1.027	61.011	76.5	0.234	
6	36 13C-1,2,3,4-TCDD	8.02e4	0.82	NO	1.00	10.036	25.890	25.83	1.000	1.000	199.28	100	3.10	
7	37 13C-1,2,3,4-TCDF	1.21e5	0.78	NO	1.00	10.036	24.360	24.16	1.000	1.000	199.28	100	1.93	
8	38 13C-1,2,3,4,6,9-HxCDF	7.11e4	0.52	NO	1.00	10.036	34.420	34.34	1.000	1.000	199.28	100	1.10	

Dataset: U:\VG12.PRO\Results\200611R1\200611R1-15.qld

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Name: 200611R1_15, Date: 11-Jun-2020, Time: 20:12:59, ID: 2001034-02@5X PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.32	1.298e6	1.092e6	6.554e4	5.308e4	1.23	NO	1.186e5	760.19	760.19	2.64
2	Total Hexa-Dioxins	33.88	1.303e5	1.107e5	7.054e3	6.053e3	1.17	NO	1.311e4	83.986	83.986	2.64
3	Total Hexa-Dioxins	34.13	8.589e5	6.499e5	5.555e4	4.545e4	1.22	NO	1.010e5	647.26	647.26	2.64
4	1,2,3,4,7,8-HxCDD	34.84	1.932e4	1.611e4	9.771e2	7.667e2	1.27	NO	1.744e3	10.488	10.488	2.46
5	1,2,3,6,7,8-HxCDD	34.93	1.190e5	1.039e5	7.733e3	6.628e3	1.17	NO	1.436e4	81.343	81.343	2.27
6	Total Hexa-Dioxins	35.12	7.015e4	6.088e4	4.278e3	3.708e3	1.15	NO	7.986e3	51.178	51.178	2.64
7	1,2,3,7,8,9-HxCDD	35.22	3.926e4	3.234e4	2.586e3	2.150e3	1.20	NO	4.735e3	32.181	32.181	2.89

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.74	3.316e6	3.212e6	2.543e5	2.497e5	1.02	NO	5.040e5	5514.6	5514.6	9.30
2	1,2,3,4,6,7,8-HpCDD	38.76	3.324e6	3.317e6	2.236e5	2.163e5	1.03	NO	4.399e5	4812.6	4812.6	9.30

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.92	7.932e3	9.080e3	6.712e2	8.564e2	0.78	NO	1.528e3	5.3261	5.3261	1.07
2	Total Tetra-Furans	21.50	4.394e4	5.327e4	3.709e3	4.680e3	0.79	NO	8.389e3	29.249	29.249	1.07
3	Total Tetra-Furans	22.47	1.574e4	2.054e4	1.540e3	1.997e3	0.77	NO	3.537e3	12.333	12.333	1.07
4	Total Tetra-Furans	22.97	1.576e4	2.635e4	1.526e3	2.192e3	0.70	NO	3.717e3	12.961	12.961	1.07
5	Total Tetra-Furans	23.89	3.474e3	5.615e3	2.369e2	3.701e2	0.64	YES	0.000e0	0.00000	1.8989	1.07
6	Total Tetra-Furans	24.06	2.431e4	2.654e4	2.013e3	2.395e3	0.84	NO	4.408e3	15.369	15.369	1.07
7	Total Tetra-Furans	24.16	7.002e3	1.050e4	4.125e2	7.090e2	0.58	YES	0.000e0	0.00000	3.3058	1.07
8	Total Tetra-Furans	24.67	2.477e4	3.946e4	2.174e3	3.041e3	0.71	NO	5.214e3	18.180	18.180	1.07
9	Total Tetra-Furans	25.50	8.360e3	1.031e4	3.878e2	6.451e2	0.60	YES	0.000e0	0.00000	3.1078	1.07
10	2,3,7,8-TCDF	25.62	2.760e4	3.814e4	2.155e3	3.002e3	0.72	NO	5.156e3	17.978	17.978	1.07
11	Total Tetra-Furans	26.00	3.730e3	5.123e3	2.477e2	3.791e2	0.65	YES	0.000e0	0.00000	1.9854	1.07
12	Total Tetra-Furans	27.31	5.181e3	6.249e3	2.663e2	3.860e2	0.69	NO	6.523e2	2.2743	2.2743	1.07
13	Total Tetra-Furans	27.62	7.847e3	9.005e3	5.315e2	6.095e2	0.87	NO	1.141e3	3.9781	3.9781	1.07

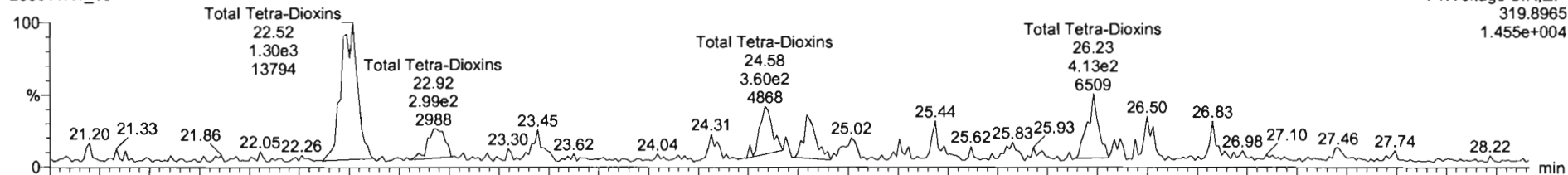
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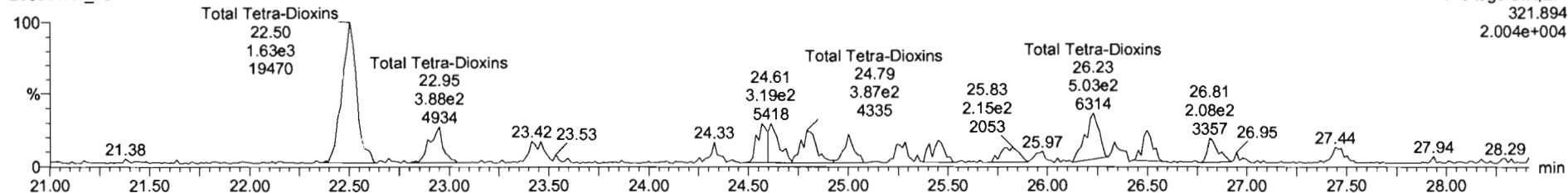
Name: 200611R1_15, Date: 11-Jun-2020, Time: 20:12:59, ID: 2001034-02@5X PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

2,3,7,8-TCDD

200611R1_15

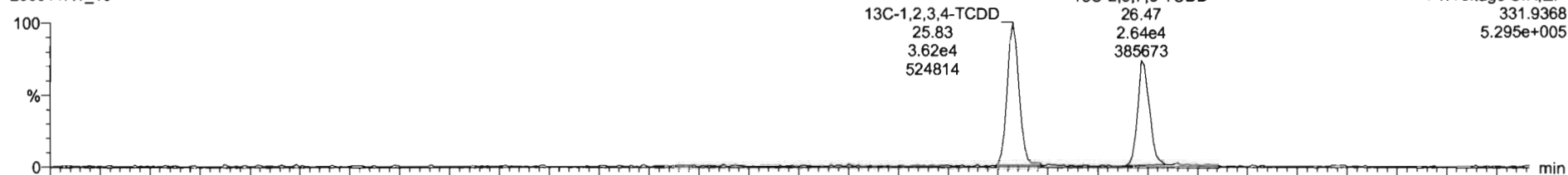


200611R1_15

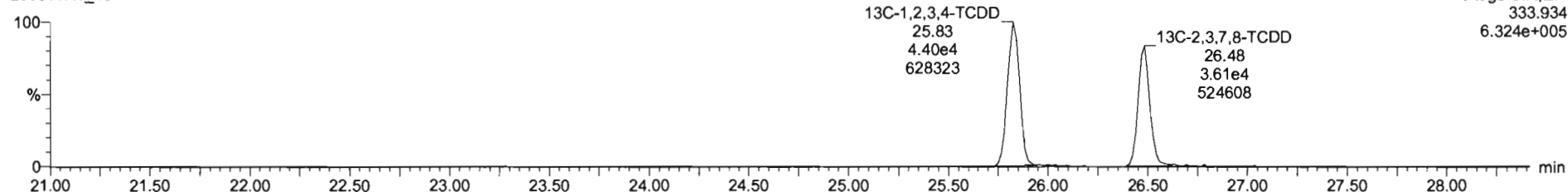


13C-2,3,7,8-TCDD

200611R1_15



200611R1_15



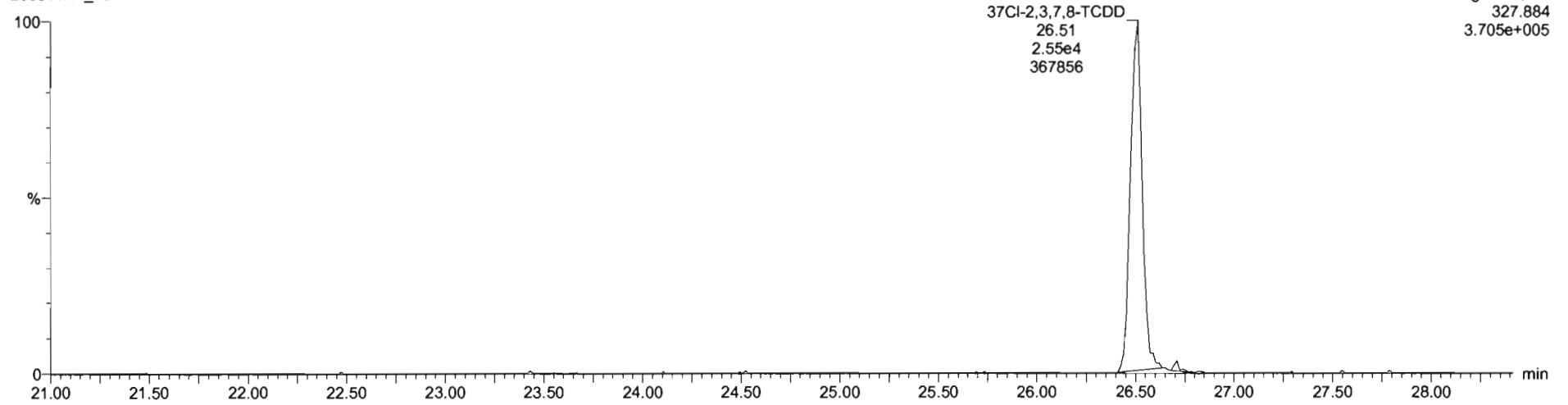
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Name: 200611R1_15, Date: 11-Jun-2020, Time: 20:12:59, ID: 2001034-02@5X PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

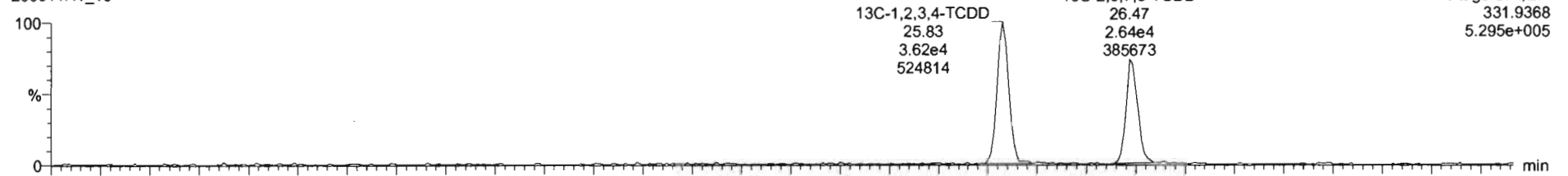
37Cl-2,3,7,8-TCDD

200611R1_15

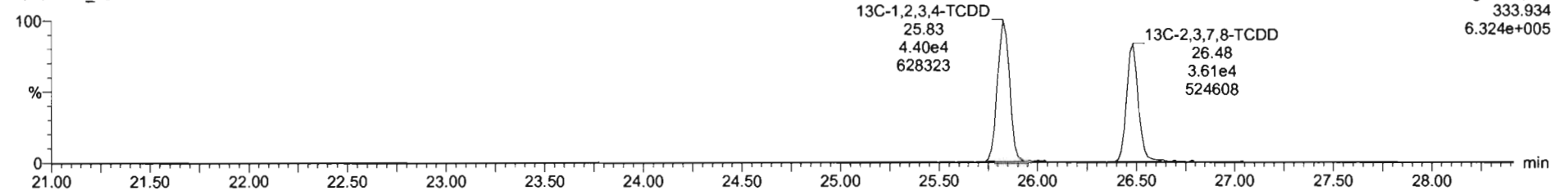


13C-1,2,3,4-TCDD

200611R1_15



200611R1_15



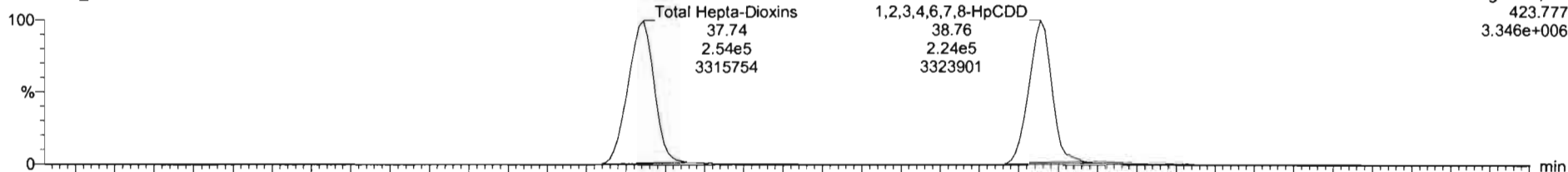
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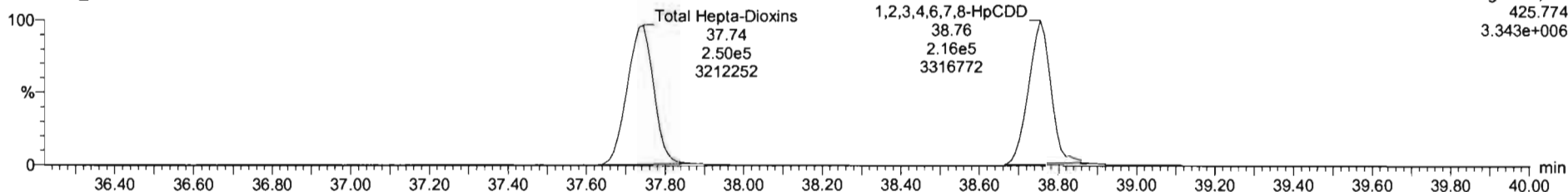
1,2,3,4,6,7,8-HpCDD

200611R1_15



F4:Voltage SIR,EI+
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3.346e+006

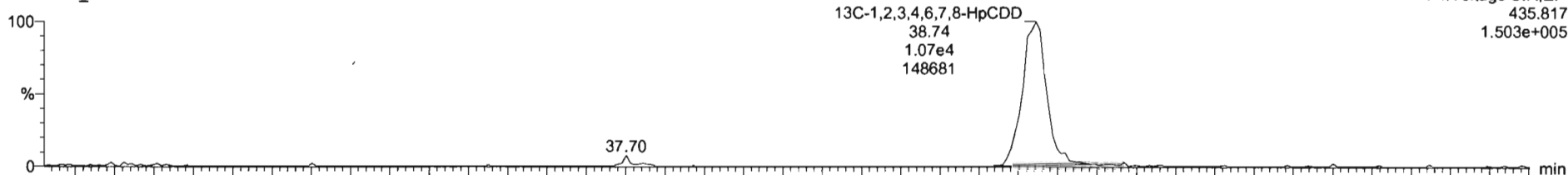
200611R1_15



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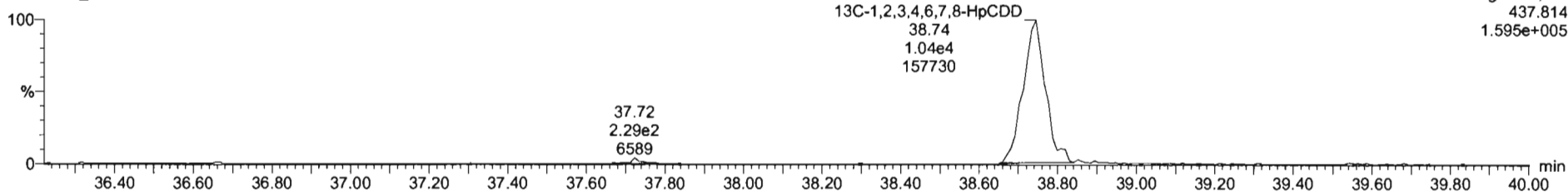
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200611R1_15



F4:Voltage SIR,EI+
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200611R1_15



F4:Voltage SIR,EI+
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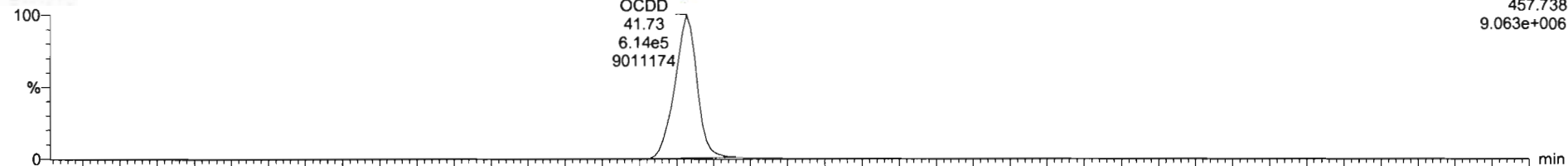
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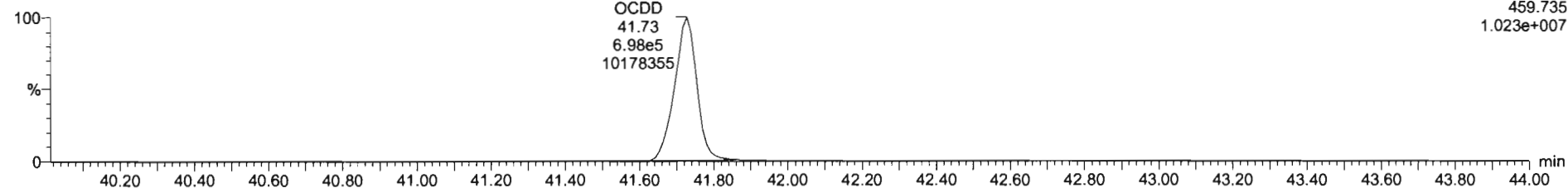
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OCDD

200611R1_15

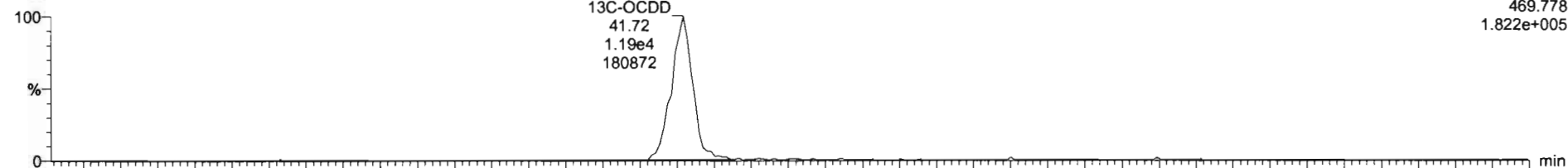


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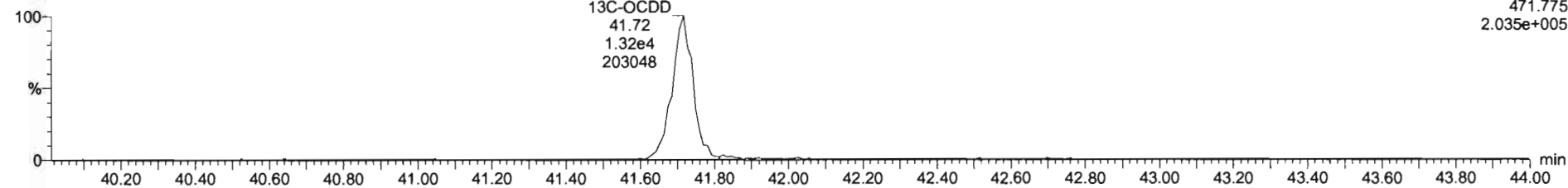


13C-OCDD

200611R1_15



200611R1_15



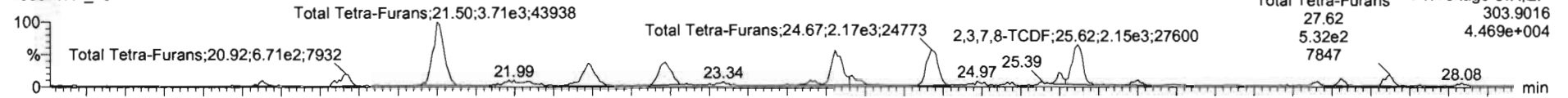
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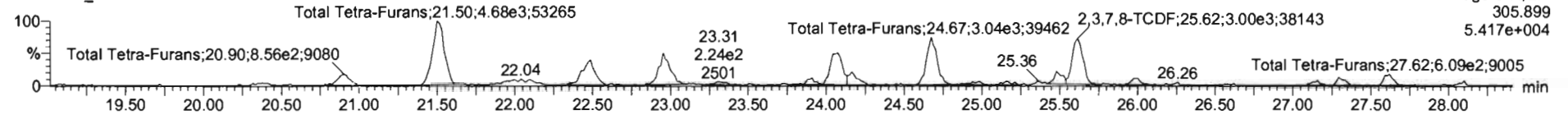
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2,3,7,8-TCDF

200611R1_15

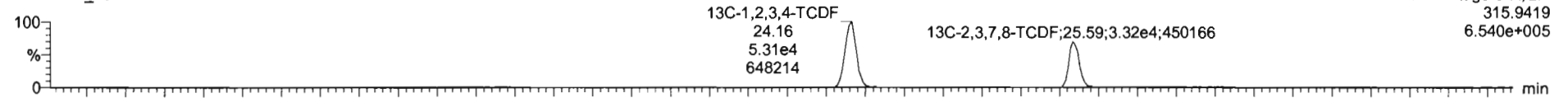


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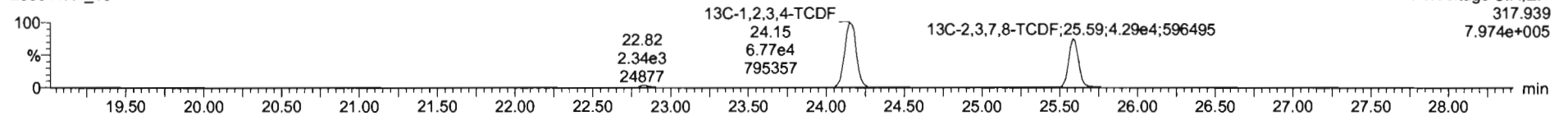


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200611R1_15

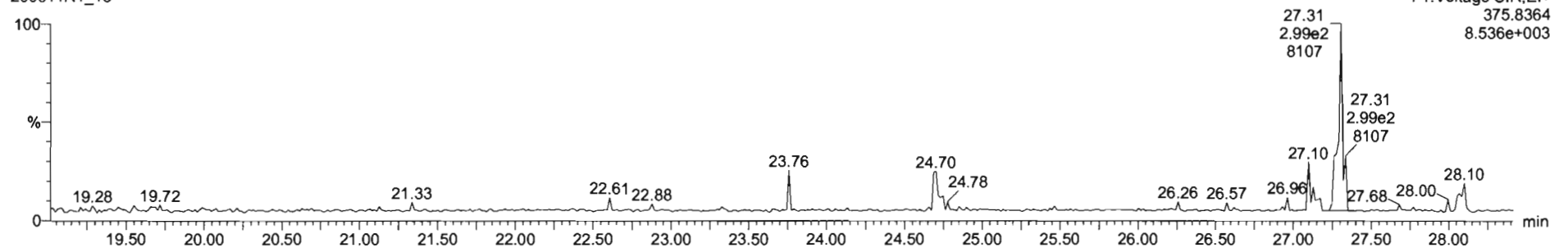


200611R1_15



DPE1

200611R1_15

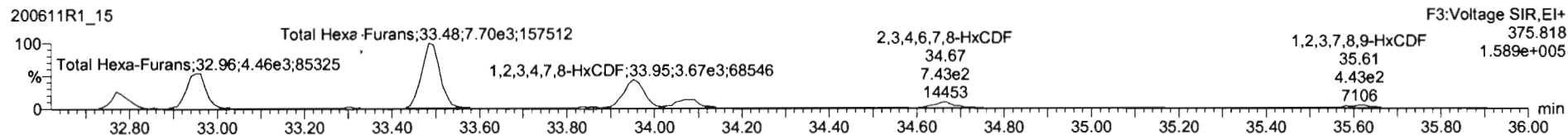
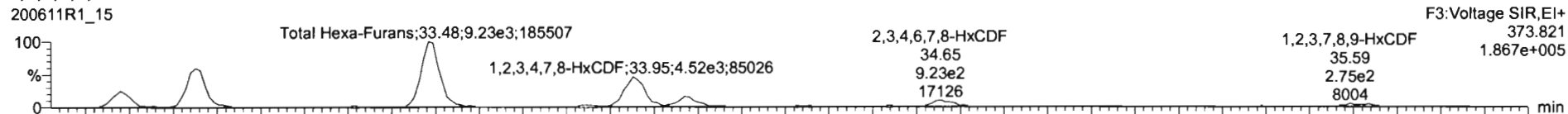


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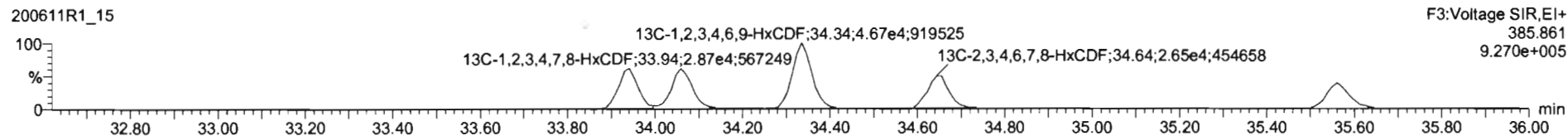
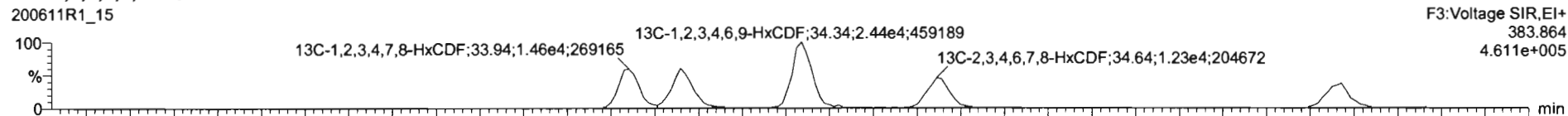
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Name: 200611R1_15, Date: 11-Jun-2020, Time: 20:12:59, ID: 2001034-02@5X PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

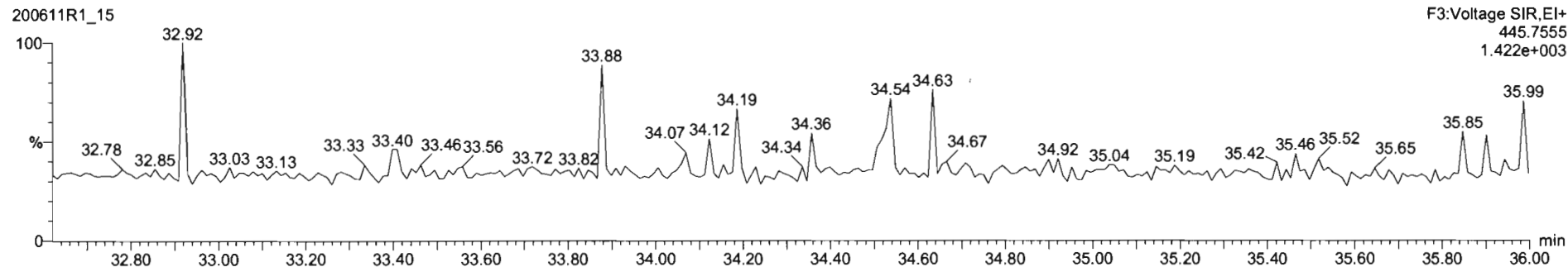
1,2,3,4,7,8-HxCDF



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



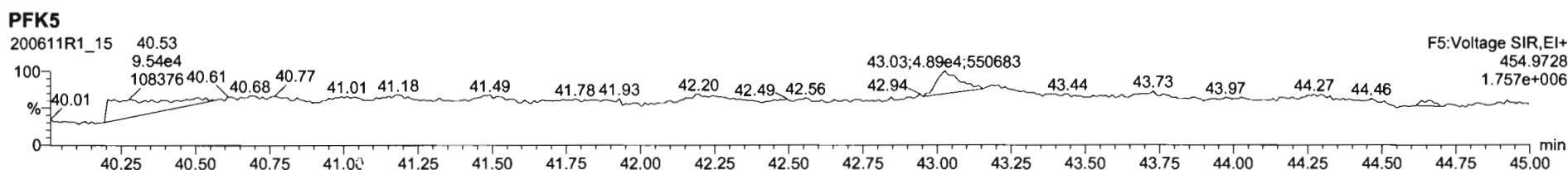
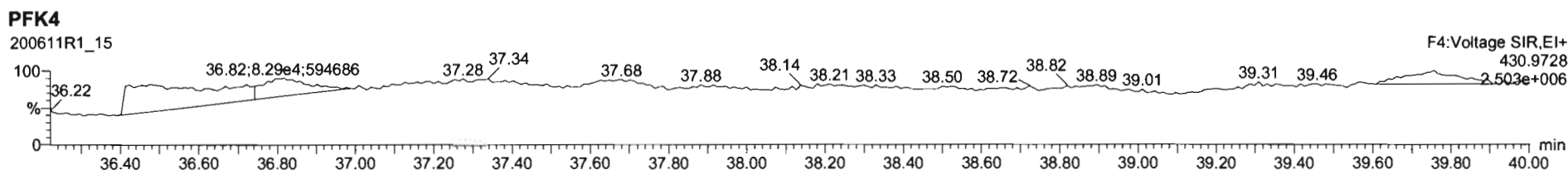
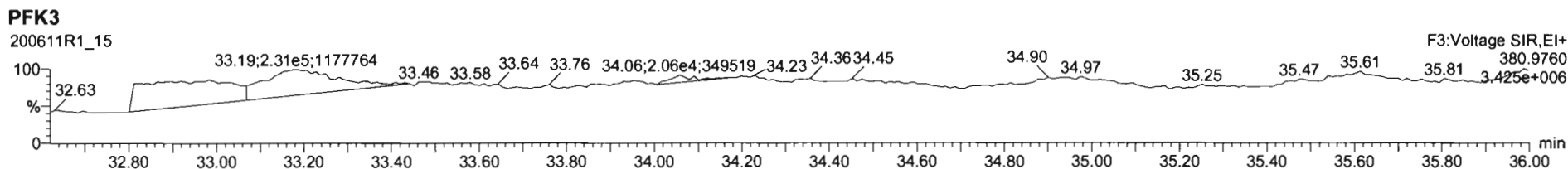
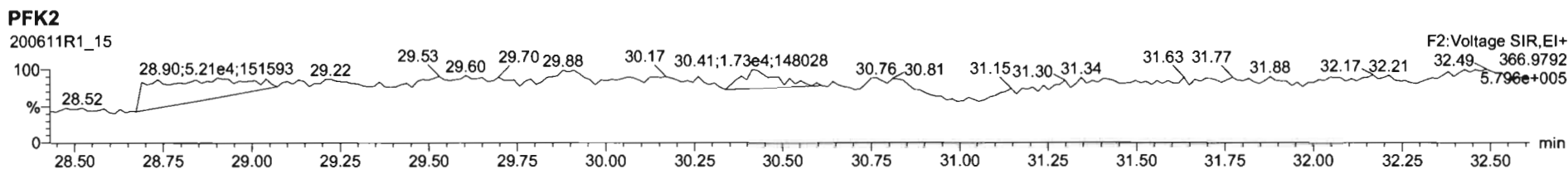
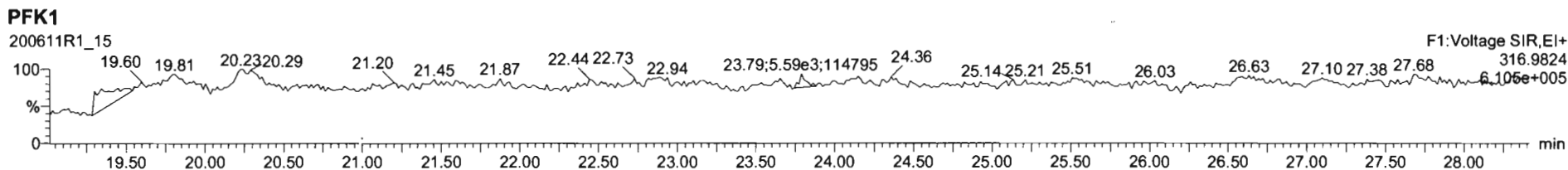
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Name: 200611R1_15, Date: 11-Jun-2020, Time: 20:12:59, ID: 2001034-02@5X PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508



Dataset: U:\VG12.PRO\Results\200608R2\200608R2-12.qld

Last Altered: Friday, June 12, 2020 8:36:58 AM Pacific Daylight Time

Printed: Friday, June 12, 2020 8:39:17 AM Pacific Daylight Time

GRS 06/12/2020

C706/12/2020

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

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

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Name: 200608R2_12, Date: 09-Jun-2020, Time: 08:41:41, ID: 2001034-03 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.23e3	0.59	YES	0.888	10.030	26.486	26.50	1.001	1.002	0.59976		0.158	0.513
2	2 1,2,3,7,8-PeCDD	1.50e3	0.64	NO	0.908	10.030	31.457	31.45	1.001	1.000	0.95334		0.198	0.953
3	3 1,2,3,4,7,8-HxCDD	1.42e3	1.27	NO	1.03	10.030	34.825	34.80	1.000	1.000	1.3605		0.544	1.36
4	4 1,2,3,6,7,8-HxCDD	2.49e4	1.30	NO	0.892	10.030	34.911	34.92	1.000	1.000	22.645		0.552	22.6
5	5 1,2,3,7,8,9-HxCDD	7.29e3	1.37	NO	0.887	10.030	35.199	35.20	1.000	1.000	7.6799		0.668	7.68
6	6 1,2,3,4,6,7,8-HpCDD	1.63e6	1.02	NO	0.864	10.030	38.746	38.76	1.000	1.001	2241.9		2.69	2240
7	7 OCDD	5.74e6	0.88	NO	0.914	10.030	41.716	41.74	1.000	1.001	9502.4	<i>ex</i>	2.50	9500
8	8 2,3,7,8-TCDF	1.77e4	0.72	NO	0.751	10.030	25.582	25.59	1.001	1.001	7.8693	<i>ok</i>	0.270	7.87
9	9 1,2,3,7,8-PeCDF	1.96e4	1.52	NO	0.893	10.030	30.175	30.17	1.001	1.000	9.0218		0.279	9.02
10	10 2,3,4,7,8-PeCDF	2.31e4	1.57	NO	0.935	10.030	31.161	31.18	1.001	1.001	10.528		0.258	10.5
11	11 1,2,3,4,7,8-HxCDF	1.84e4	1.29	NO	0.884	10.030	33.931	33.94	1.000	1.000	14.900		0.299	14.9
12	12 1,2,3,6,7,8-HxCDF	6.78e3	1.40	NO	0.889	10.030	34.058	34.07	1.000	1.001	4.9462		0.299	4.95
13	13 2,3,4,6,7,8-HxCDF	5.49e3	1.22	NO	0.934	10.030	34.680	34.65	1.001	1.000	4.5534		0.361	4.55
14	14 1,2,3,7,8,9-HxCDF	1.34e3	1.13	NO	0.871	10.030	35.550	35.59	1.000	1.001	1.5189		0.560	1.52
15	15 1,2,3,4,6,7,8-HpCDF	5.16e4	0.98	NO	0.873	10.030	37.355	37.34	1.001	1.001	66.264		0.697	66.3
16	16 1,2,3,4,7,8,9-HpCDF	2.41e3	1.06	NO	1.01	10.030	39.278	39.29	1.000	1.000	4.2396		0.765	4.24
17	17 OCDF	8.24e4	0.86	NO	0.806	10.030	41.908	41.92	1.000	1.000	156.34		0.604	156
18	18 13C-2,3,7,8-TCDD	4.60e5	0.79	NO	1.16	10.030	26.476	26.45	1.026	1.026	125.13	62.8	0.360	
19	19 13C-1,2,3,7,8-PeCDD	3.46e5	0.64	NO	0.849	10.030	31.656	31.43	1.227	1.219	128.29	64.3	0.300	
20	20 13C-1,2,3,4,7,8-HxCDD	2.01e5	1.29	NO	0.779	10.030	34.809	34.81	1.014	1.014	106.08	53.2	0.428	
21	21 13C-1,2,3,6,7,8-HxCDD	2.46e5	1.27	NO	1.02	10.030	34.922	34.91	1.017	1.017	99.482	49.9	0.328	
22	22 13C-1,2,3,7,8,9-HxCDD	2.14e5	1.20	NO	0.903	10.030	35.193	35.19	1.025	1.025	97.258	48.8	0.369	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.68e5	1.04	NO	0.689	10.030	38.715	38.73	1.128	1.128	100.17	50.2	0.413	
24	24 13C-OCDD	2.64e5	0.89	NO	0.652	10.030	41.736	41.72	1.216	1.215	166.37	41.7	0.341	*
25	25 13C-2,3,7,8-TCDF	5.98e5	0.77	NO	1.06	10.030	25.519	25.56	0.989	0.991	119.19	59.8	0.351	
26	26 13C-1,2,3,7,8-PeCDF	4.86e5	1.57	NO	0.838	10.030	30.041	30.15	1.165	1.169	122.38	61.4	0.270	
27	27 13C-2,3,4,7,8-PeCDF	4.68e5	1.59	NO	0.817	10.030	30.993	31.13	1.202	1.207	120.91	60.6	0.277	
28	28 13C-1,2,3,4,7,8-HxCDF	2.79e5	0.50	NO	1.01	10.030	33.941	33.93	0.989	0.989	113.91	57.1	0.451	
29	29 13C-1,2,3,6,7,8-HxCDF	3.08e5	0.52	NO	1.17	10.030	34.064	34.05	0.992	0.992	108.35	54.3	0.389	
30	30 13C-2,3,4,6,7,8-HxCDF	2.58e5	0.49	NO	1.02	10.030	34.637	34.65	1.009	1.009	103.61	52.0	0.445	
31	31 13C-1,2,3,7,8,9-HxCDF	2.01e5	0.51	NO	0.860	10.030	35.537	35.55	1.035	1.036	96.305	48.3	0.529	

Dataset: U:\VG12.PRO\Results\200608R2\200608R2-12.qld

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Printed: Friday, June 12, 2020 8:39:17 AM Pacific Daylight Time

Name: 200608R2_12, Date: 09-Jun-2020, Time: 08:41:41, ID: 2001034-03 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.78e5	0.42	NO	0.774	10.030	37.284	37.32	1.086	1.087	94.380	47.3	0.398	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.12e5	0.42	NO	0.521	10.030	39.312	39.28	1.145	1.144	88.439	44.4	0.592	
34	34 13C-OCDF	2.61e5	0.85	NO	0.746	10.030	41.907	41.91	1.221	1.221	143.64	36.0	0.195	
35	35 37Cl-2,3,7,8-TCDD	1.83e5			1.04	10.030	26.507	26.48	1.028	1.027	55.570	69.7	0.0946	
36	36 13C-1,2,3,4-TCDD	6.34e5	0.79	NO	1.00	10.030	25.890	25.80	1.000	1.000	199.41	100	0.416	
37	37 13C-1,2,3,4-TCDF	9.45e5	0.78	NO	1.00	10.030	24.360	24.10	1.000	1.000	199.41	100	0.371	
38	38 13C-1,2,3,4,6,9-HxCDF	4.85e5	0.51	NO	1.00	10.030	34.420	34.33	1.000	1.000	199.41	100	0.454	
39	39 Total Tetra-Dioxins				0.888	10.030	24.620		0.000		10.363		0.159	11.1
40	40 Total Penta-Dioxins				0.908	10.030	29.960		0.000		17.346		0.198	19.2
41	41 Total Hexa-Dioxins				0.892	10.030	33.635		0.000		659.51		0.612	660
42	42 Total Hepta-Dioxins				0.864	10.030	37.640		0.000		4981.0		2.69	4980
43	43 Total Tetra-Furans				0.751	10.030	23.610		0.000		76.216		0.270	76.2
44	44 1st Func. Penta-Furans				0.893	10.030	27.580		0.000		63.566		0.0786	63.6
45	45 Total Penta-Furans				0.893	10.030	29.275		0.000		36.688		0.275	72.4
46	46 Total Hexa-Furans				0.934	10.030	33.555		0.000		111.29		0.349	111
47	47 Total Hepta-Furans				0.873	10.030	37.835		0.000		219.61		0.770	220

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Dataset: U:\VG12.PRO\Results\200608R2\200608R2-12.qld

Last Altered: Friday, June 12, 2020 8:36:58 AM Pacific Daylight Time

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Name: 200608R2_12, Date: 09-Jun-2020, Time: 08:41:41, ID: 2001034-03 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.44	5.274e4	6.824e4	5.025e3	6.432e3	0.78	NO	1.146e4	5.5883	5.5883	0.159
2	Total Tetra-Dioxins	22.88	1.181e4	1.600e4	1.133e3	1.494e3	0.76	NO	2.627e3	1.2811	1.2811	0.159
3	Total Tetra-Dioxins	23.40	3.889e3	5.635e3	2.874e2	3.842e2	0.75	NO	6.716e2	0.32758	0.32758	0.159
4	Total Tetra-Dioxins	24.30	4.318e3	3.657e3	3.145e2	3.700e2	0.85	NO	6.845e2	0.33386	0.33386	0.159
5	Total Tetra-Dioxins	24.54	7.729e3	8.923e3	5.798e2	7.948e2	0.73	NO	1.375e3	0.67049	0.67049	0.159
6	Total Tetra-Dioxins	24.75	6.923e3	8.706e3	5.831e2	7.008e2	0.83	NO	1.284e3	0.62626	0.62626	0.159
7	Total Tetra-Dioxins	25.44	3.589e3	4.388e3	2.792e2	3.481e2	0.80	NO	6.273e2	0.30595	0.30595	0.159
8	Total Tetra-Dioxins	25.81	4.271e3	3.925e3	4.010e2	4.565e2	0.88	NO	8.575e2	0.41824	0.41824	0.159
9	Total Tetra-Dioxins	26.20	8.363e3	1.102e4	7.399e2	9.229e2	0.80	NO	1.663e3	0.81105	0.81105	0.159
10	2,3,7,8-TCDD	26.50	6.033e3	1.001e4	4.580e2	7.716e2	0.59	YES	1.230e3	0.00000	0.51348	0.159
11	Total Tetra-Dioxins	26.80	3.106e3	4.675e3	2.062e2	2.331e2	0.88	NO	0.000e0	0.00000	0.21426	0.159

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.21	5.498e4	8.979e4	4.371e3	6.956e3	0.63	NO	1.133e4	7.1802	7.1802	0.198
2	Total Penta-Dioxins	29.70	1.338e4	1.928e4	7.338e2	1.184e3	0.62	NO	1.918e3	1.2155	1.2155	0.198
3	Total Penta-Dioxins	30.20	6.049e4	8.649e4	3.128e3	4.979e3	0.63	NO	8.107e3	5.1392	5.1392	0.198
4	Total Penta-Dioxins	30.37	1.230e4	1.878e4	5.469e2	9.087e2	0.60	NO	1.456e3	0.92267	0.92267	0.198
5	Total Penta-Dioxins	30.47	1.583e4	2.275e4	8.204e2	1.236e3	0.66	NO	2.056e3	1.3033	1.3033	0.198
6	Total Penta-Dioxins	30.67	1.307e4	1.544e4	4.020e2	5.937e2	0.68	NO	0.000e0	0.00000	0.63115	0.198
7	Total Penta-Dioxins	30.72	1.284e4	1.797e4	6.873e2	9.673e2	0.71	NO	0.000e0	0.00000	1.0489	0.198
8	1,2,3,7,8-PeCDD	31.45	1.035e4	1.770e4	5.855e2	9.184e2	0.64	NO	1.504e3	0.95334	0.95334	0.198
9	Total Penta-Dioxins	31.51	3.490e3	5.481e3	2.041e2	3.302e2	0.62	NO	5.343e2	0.33867	0.33867	0.198
10	Total Penta-Dioxins	31.73	6.867e3	3.574e3	3.157e2	1.617e2	1.95	YES	0.000e0	0.00000	0.16704	0.198
11	Total Penta-Dioxins	31.85	4.533e3	4.433e3	1.753e2	2.874e2	0.61	NO	4.628e2	0.29335	0.29335	0.198

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Dataset: U:\VG12.PRO\Results\200608R2\200608R2-12.qld

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Name: 200608R2_12, Date: 09-Jun-2020, Time: 08:41:41, ID: 2001034-03 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.31	3.945e6	3.197e6	1.998e5	1.628e5	1.23	NO	3.625e5	367.93	367.93	0.612
2	Total Hexa-Dioxins	33.87	1.489e5	1.303e5	8.302e3	7.101e3	1.17	NO	1.540e4	15.632	15.632	0.612
3	Total Hexa-Dioxins	34.13	1.776e6	1.434e6	1.251e5	1.016e5	1.23	NO	2.267e5	230.05	230.05	0.612
4	Total Hexa-Dioxins	34.23	8.614e4	6.318e4	4.935e3	3.897e3	1.27	NO	8.832e3	8.9637	8.9637	0.612
5	1,2,3,4,7,8-HxCDD	34.80	1.658e4	1.066e4	7.924e2	6.248e2	1.27	NO	1.417e3	1.3605	1.3605	0.544
6	1,2,3,6,7,8-HxCDD	34.92	2.255e5	1.746e5	1.409e4	1.085e4	1.30	NO	2.493e4	22.645	22.645	0.552
7	Total Hexa-Dioxins	35.11	5.068e4	3.763e4	2.835e3	2.334e3	1.21	NO	5.169e3	5.2457	5.2457	0.612
8	1,2,3,7,8,9-HxCDD	35.20	6.000e4	4.849e4	4.217e3	3.078e3	1.37	NO	7.295e3	7.6799	7.6799	0.668

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.73	1.261e7	1.226e7	1.004e6	9.885e5	1.02	NO	1.993e6	2739.1	2739.1	2.69
2	1,2,3,4,6,7,8-HpCDD	38.76	1.149e7	1.123e7	8.238e5	8.072e5	1.02	NO	1.631e6	2241.9	2241.9	2.69

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Dataset: U:\VG12.PRO\Results\200608R2\200608R2-12.qld

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Name: 200608R2_12, Date: 09-Jun-2020, Time: 08:41:41, ID: 2001034-03 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.32	9.700e3	1.161e4	7.924e2	9.495e2	0.83	NO	1.742e3	0.77339	0.77339	0.270
2	Total Tetra-Furans	20.84	2.937e4	3.431e4	2.372e3	2.822e3	0.84	NO	5.194e3	2.3061	2.3061	0.270
3	Total Tetra-Furans	21.44	1.567e5	2.201e5	1.519e4	1.936e4	0.78	NO	3.456e4	15.343	15.343	0.270
4	Total Tetra-Furans	21.93	8.906e3	1.132e4	8.265e2	1.147e3	0.72	NO	1.974e3	0.87634	0.87634	0.270
5	Total Tetra-Furans	22.04	7.920e3	8.632e3	8.458e2	1.008e3	0.84	NO	1.854e3	0.82300	0.82300	0.270
6	Total Tetra-Furans	22.43	6.782e4	9.643e4	6.796e3	9.103e3	0.75	NO	1.590e4	7.0595	7.0595	0.270
7	Total Tetra-Furans	22.89	9.617e4	1.215e5	9.133e3	1.182e4	0.77	NO	2.096e4	9.3051	9.3051	0.270
8	Total Tetra-Furans	23.09	4.132e3	5.892e3	3.204e2	3.802e2	0.84	NO	7.006e2	0.31106	0.31106	0.270
9	Total Tetra-Furans	23.24	6.922e3	1.844e4	7.100e2	1.083e3	0.66	NO	1.793e3	0.79588	0.79588	0.270
10	Total Tetra-Furans	23.83	7.456e3	1.048e4	5.774e2	7.720e2	0.75	NO	1.349e3	0.59911	0.59911	0.270
11	Total Tetra-Furans	24.03	9.150e4	1.173e5	7.624e3	1.011e4	0.75	NO	1.773e4	7.8733	7.8733	0.270
12	Total Tetra-Furans	24.10	2.050e4	2.787e4	1.378e3	1.872e3	0.74	NO	3.250e3	1.4429	1.4429	0.270
13	Total Tetra-Furans	24.66	8.329e4	1.271e5	8.820e3	1.244e4	0.71	NO	2.126e4	9.4410	9.4410	0.270
14	Total Tetra-Furans	24.93	9.202e3	8.105e3	5.587e2	7.889e2	0.71	NO	1.348e3	0.59834	0.59834	0.270
15	Total Tetra-Furans	25.15	3.007e3	6.293e3	3.296e2	4.770e2	0.69	NO	8.065e2	0.35810	0.35810	0.270
16	Total Tetra-Furans	25.38	4.642e3	8.929e3	3.114e2	4.506e2	0.69	NO	7.620e2	0.33835	0.33835	0.270
17	Total Tetra-Furans	25.47	2.660e4	3.153e4	1.731e3	1.999e3	0.87	NO	3.731e3	1.6565	1.6565	0.270
18	2,3,7,8-TCDF	25.59	9.844e4	1.435e5	7.414e3	1.031e4	0.72	NO	1.772e4	7.8693	7.8693	0.270
19	Total Tetra-Furans	25.96	1.126e4	1.453e4	7.442e2	9.828e2	0.76	NO	1.727e3	0.76679	0.76679	0.270
20	Total Tetra-Furans	27.14	3.194e4	4.287e4	1.941e3	2.653e3	0.73	NO	4.594e3	2.0398	2.0398	0.270
21	Total Tetra-Furans	27.31	4.679e4	5.253e4	2.419e3	3.325e3	0.73	NO	5.745e3	2.5507	2.5507	0.270
22	Total Tetra-Furans	27.59	4.645e4	5.917e4	3.205e3	3.750e3	0.85	NO	6.955e3	3.0881	3.0881	0.270

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.58	1.382e6	8.633e5	8.396e4	5.171e4	1.62	NO	1.357e5	63.566	63.566	0.0786

Dataset: U:\VG12.PRO\Results\200608R2\200608R2-12.qld

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.04	2.833e4	2.057e4	1.609e3	1.133e3	1.42	NO	2.742e3	1.2848	1.2848	0.275
2	Total Penta-Furans	29.18	4.400e5	2.806e5	3.272e4	2.073e4	1.58	NO	0.000e0	0.00000	25.045	0.275
3	Total Penta-Furans	29.22	6.789e4	4.320e4	2.528e3	1.582e3	1.60	NO	0.000e0	0.00000	1.9260	0.275
4	Total Penta-Furans	29.76	2.627e5	1.488e5	1.449e4	8.674e3	1.67	NO	2.317e4	10.855	10.855	0.275
5	Total Penta-Furans	29.97	3.575e4	3.366e4	2.063e3	1.492e3	1.38	NO	3.555e3	1.6657	1.6657	0.275
6	1,2,3,7,8-PeCDF	30.17	2.083e5	1.397e5	1.182e4	7.801e3	1.52	NO	1.962e4	9.0218	9.0218	0.279
7	Total Penta-Furans	30.44	1.337e5	8.486e4	6.503e3	4.118e3	1.58	NO	0.000e0	0.00000	4.9764	0.275
8	Total Penta-Furans	30.46	9.200e4	6.286e4	4.003e3	2.584e3	1.55	NO	0.000e0	0.00000	3.0860	0.275
9	Total Penta-Furans	31.02	1.161e4	8.456e3	5.445e2	3.218e2	1.69	NO	8.663e2	0.40590	0.40590	0.275
10	2,3,4,7,8-PeCDF	31.18	2.669e5	1.559e5	1.409e4	8.996e3	1.57	NO	2.309e4	10.528	10.528	0.258
11	Total Penta-Furans	31.19	2.181e5	1.144e5	3.859e3	2.387e3	1.62	NO	6.246e3	2.9264	2.9264	0.275
12	Total Penta-Furans	32.11	1.310e4	8.976e3	9.399e2	6.004e2	1.57	NO	0.000e0	0.00000	0.72170	0.275

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Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.77	1.559e5	1.366e5	7.648e3	6.622e3	1.15	NO	1.427e4	11.653	11.653	0.349
2	Total Hexa-Furans	32.94	4.259e5	3.211e5	1.954e4	1.594e4	1.23	NO	3.547e4	28.966	28.966	0.349
3	Total Hexa-Furans	33.29	6.264e3	4.980e3	3.261e2	3.023e2	1.08	NO	6.284e2	0.51313	0.51313	0.349
4	Total Hexa-Furans	33.48	5.982e5	4.797e5	2.900e4	2.398e4	1.21	NO	5.298e4	43.261	43.261	0.349
5	1,2,3,4,7,8-HxCDF	33.94	1.840e5	1.471e5	1.040e4	8.046e3	1.29	NO	1.845e4	14.900	14.900	0.299
6	1,2,3,6,7,8-HxCDF	34.07	6.493e4	5.623e4	3.958e3	2.826e3	1.40	NO	6.784e3	4.9462	4.9462	0.299
7	2,3,4,6,7,8-HxCDF	34.65	5.522e4	4.286e4	3.022e3	2.472e3	1.22	NO	5.493e3	4.5534	4.5534	0.361
8	1,2,3,7,8,9-HxCDF	35.59	2.053e4	2.009e4	7.074e2	6.281e2	1.13	NO	1.336e3	1.5189	1.5189	0.560
9	Total Hexa-Furans	35.60	1.870e4	1.456e4	6.854e2	5.156e2	1.33	NO	1.201e3	0.98079	0.98079	0.349

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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	37.34	3.395e5	3.507e5	2.553e4	2.608e4	0.98	NO	5.161e4	66.264	66.264	0.697
2	Total Hepta-Furans	37.73	7.061e3	6.238e3	4.856e2	5.281e2	0.92	NO	1.014e3	1.5968	1.5968	0.770
3	Total Hepta-Furans	37.95	6.174e5	6.243e5	4.689e4	4.676e4	1.00	NO	9.365e4	147.51	147.51	0.770
4	1,2,3,4,7,8,9-HpCDF	39.29	1.810e4	2.128e4	1.242e3	1.171e3	1.06	NO	2.414e3	4.2396	4.2396	0.765

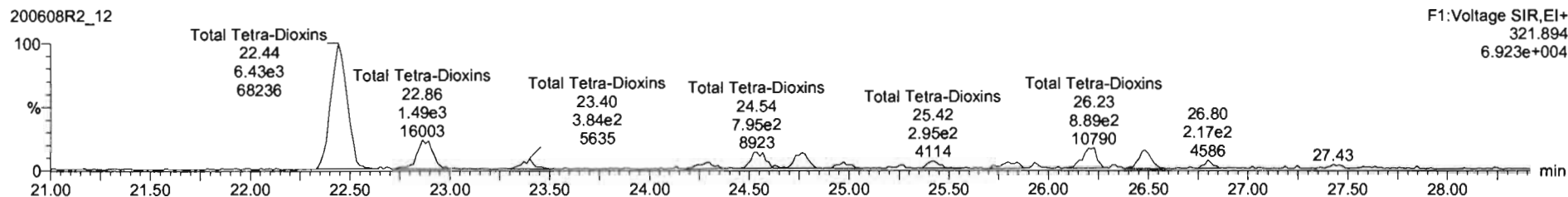
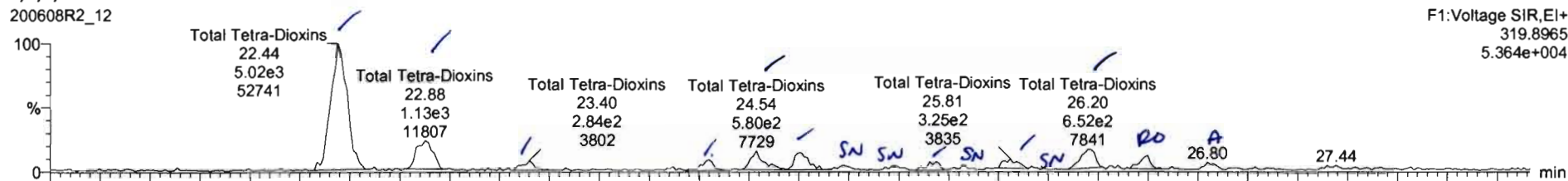
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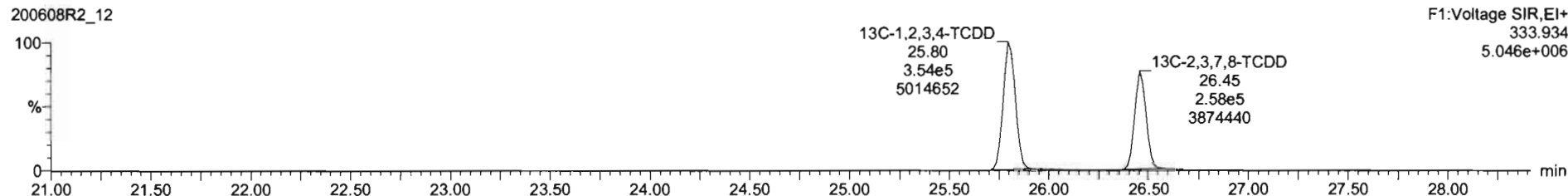
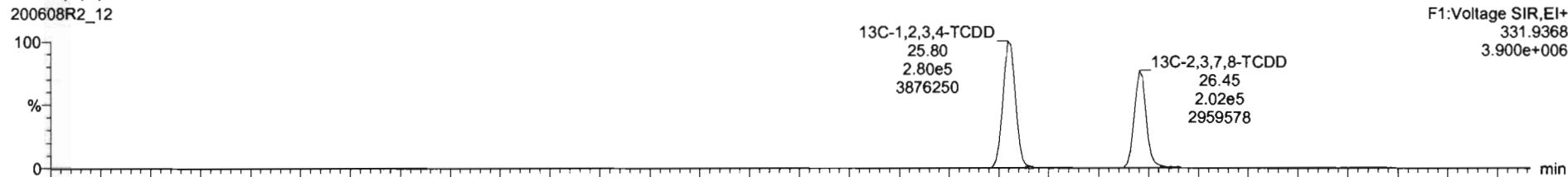
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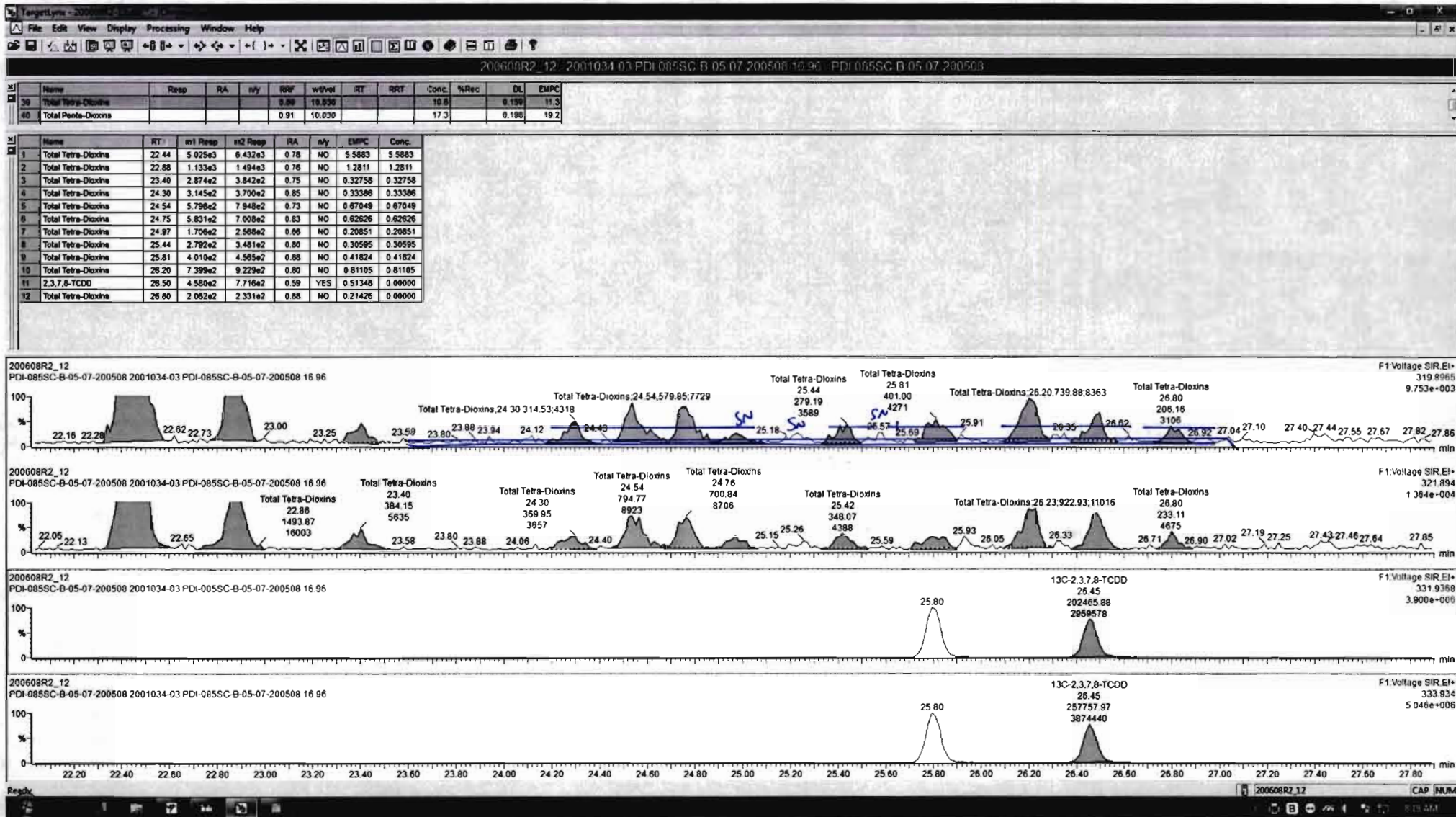
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2,3,7,8-TCDD



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





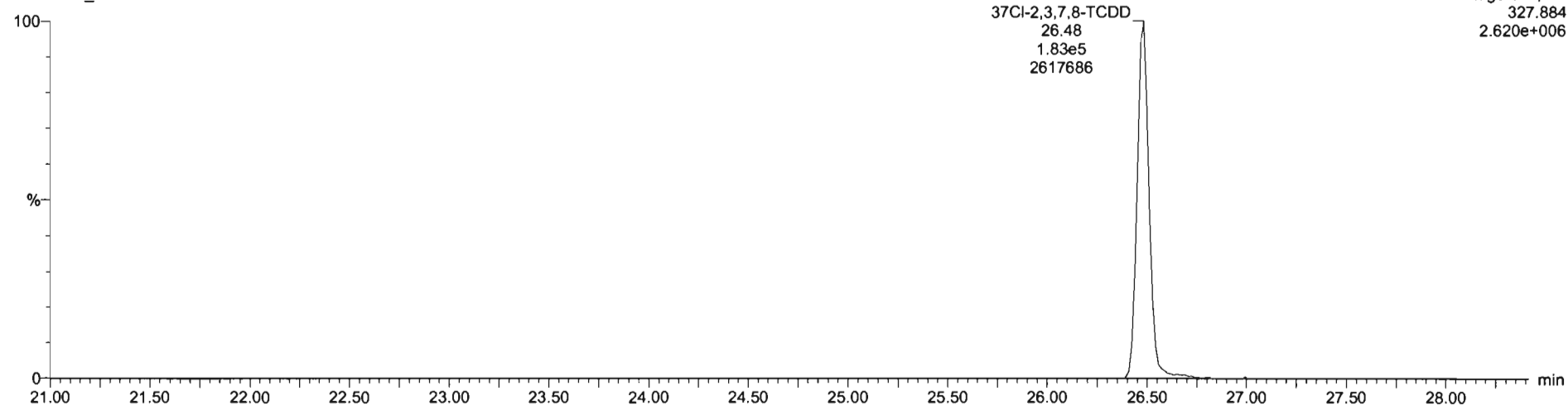
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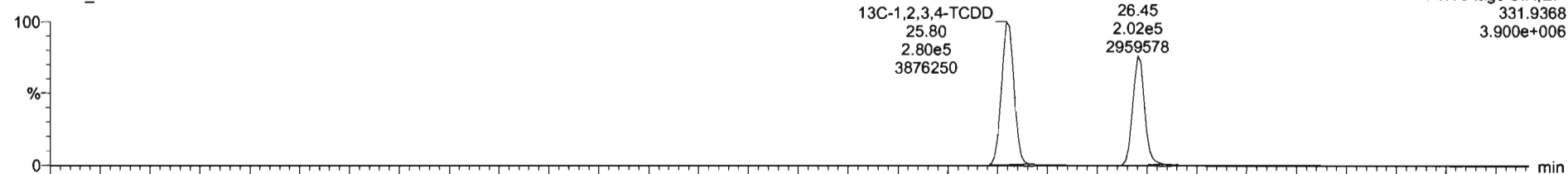
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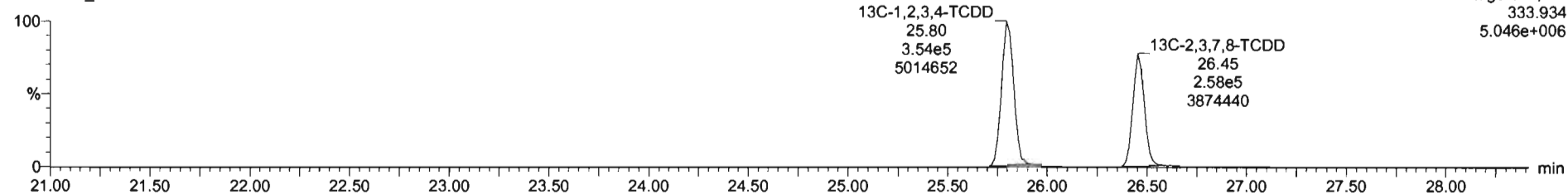


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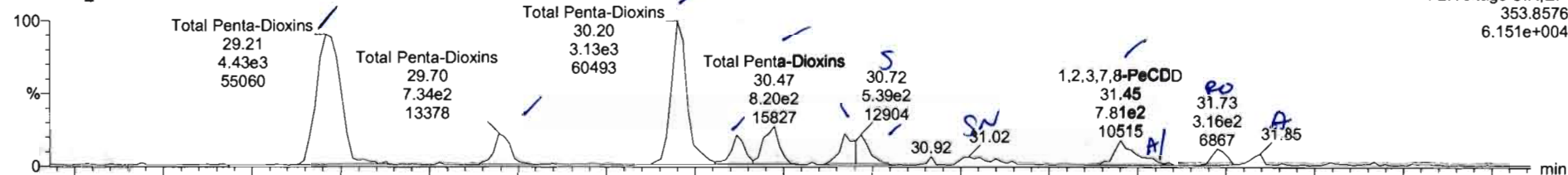
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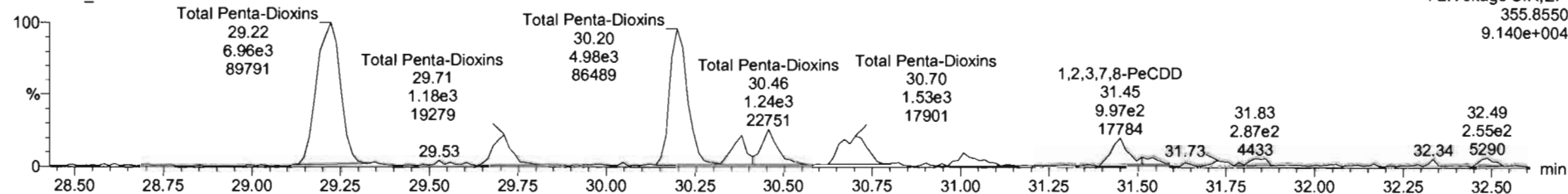
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1,2,3,7,8-PeCDD

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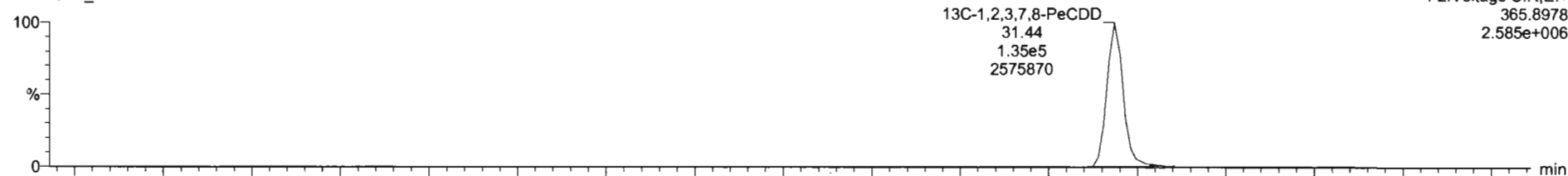


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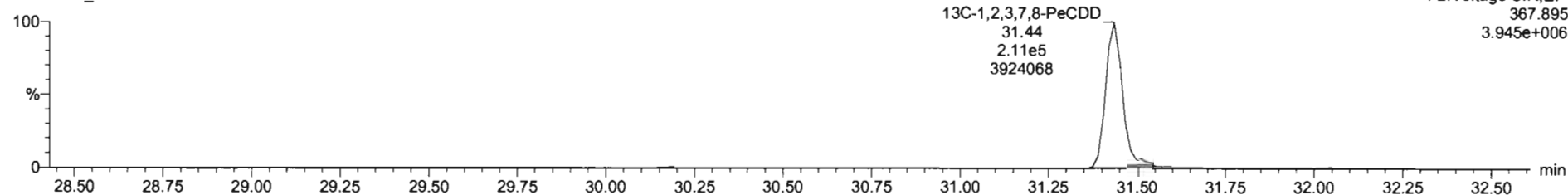


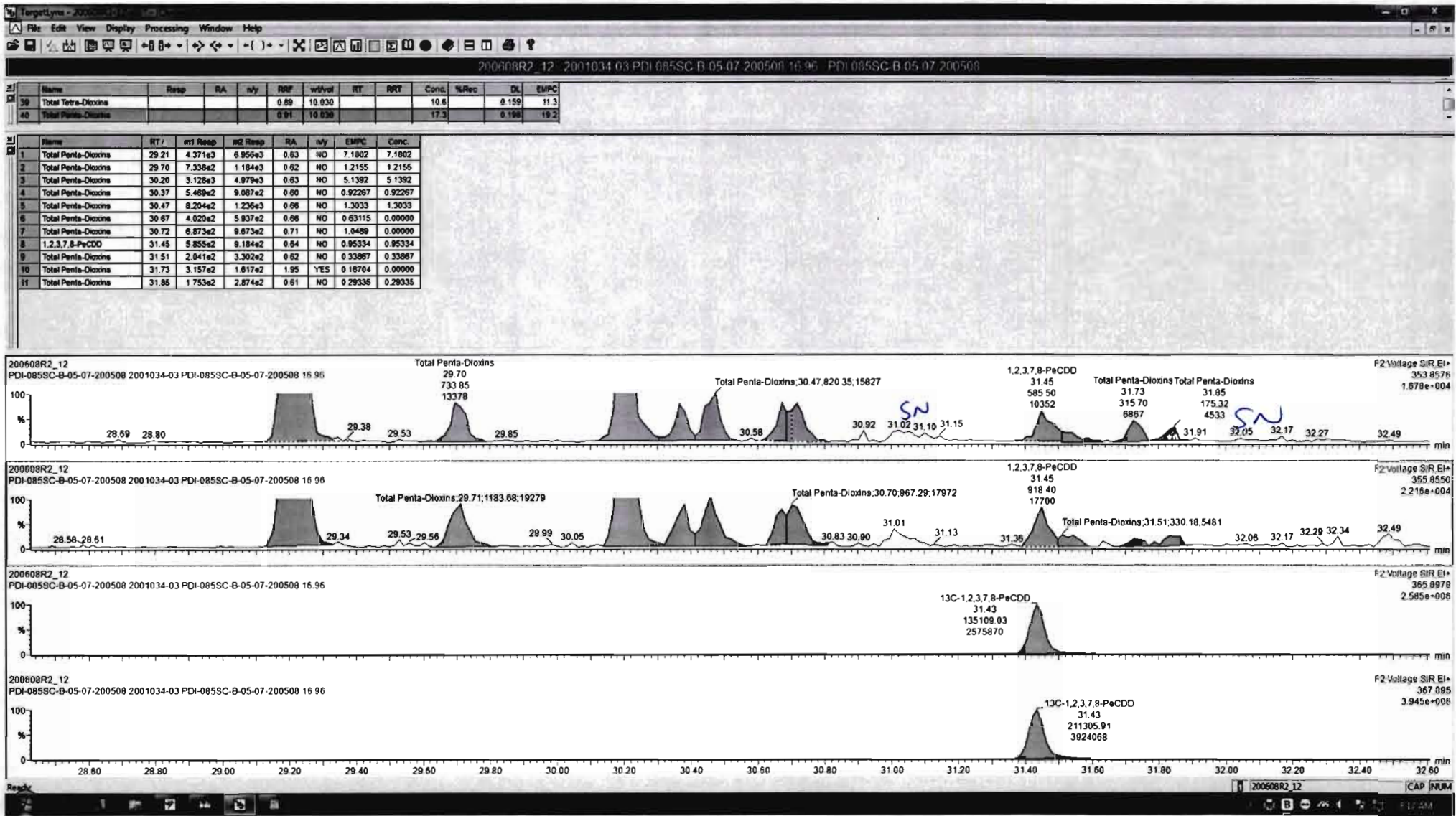
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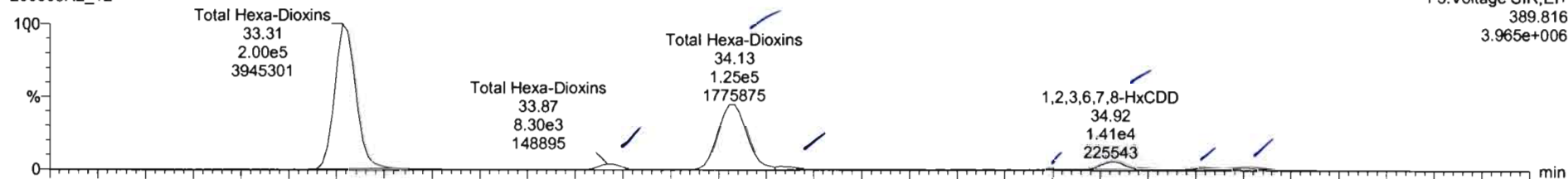
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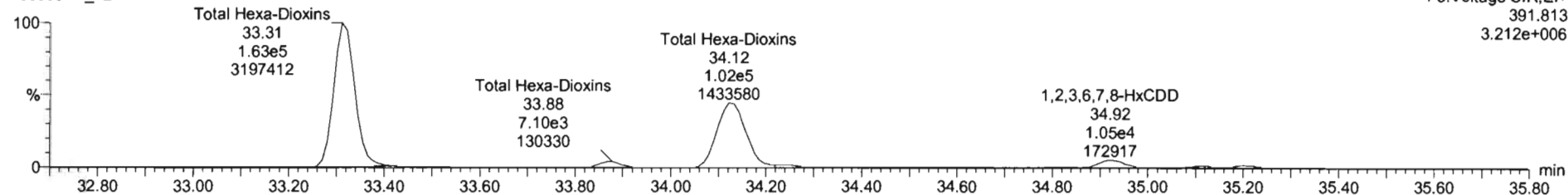
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1,2,3,4,7,8-HxCDD

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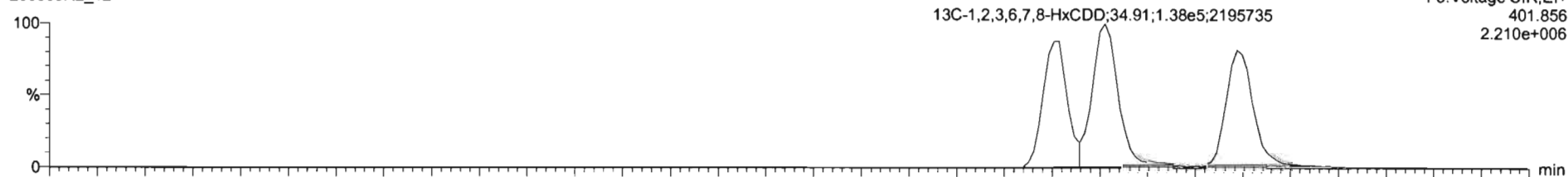


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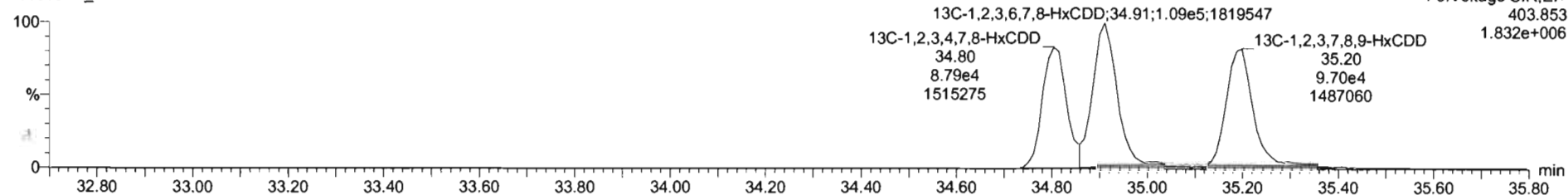


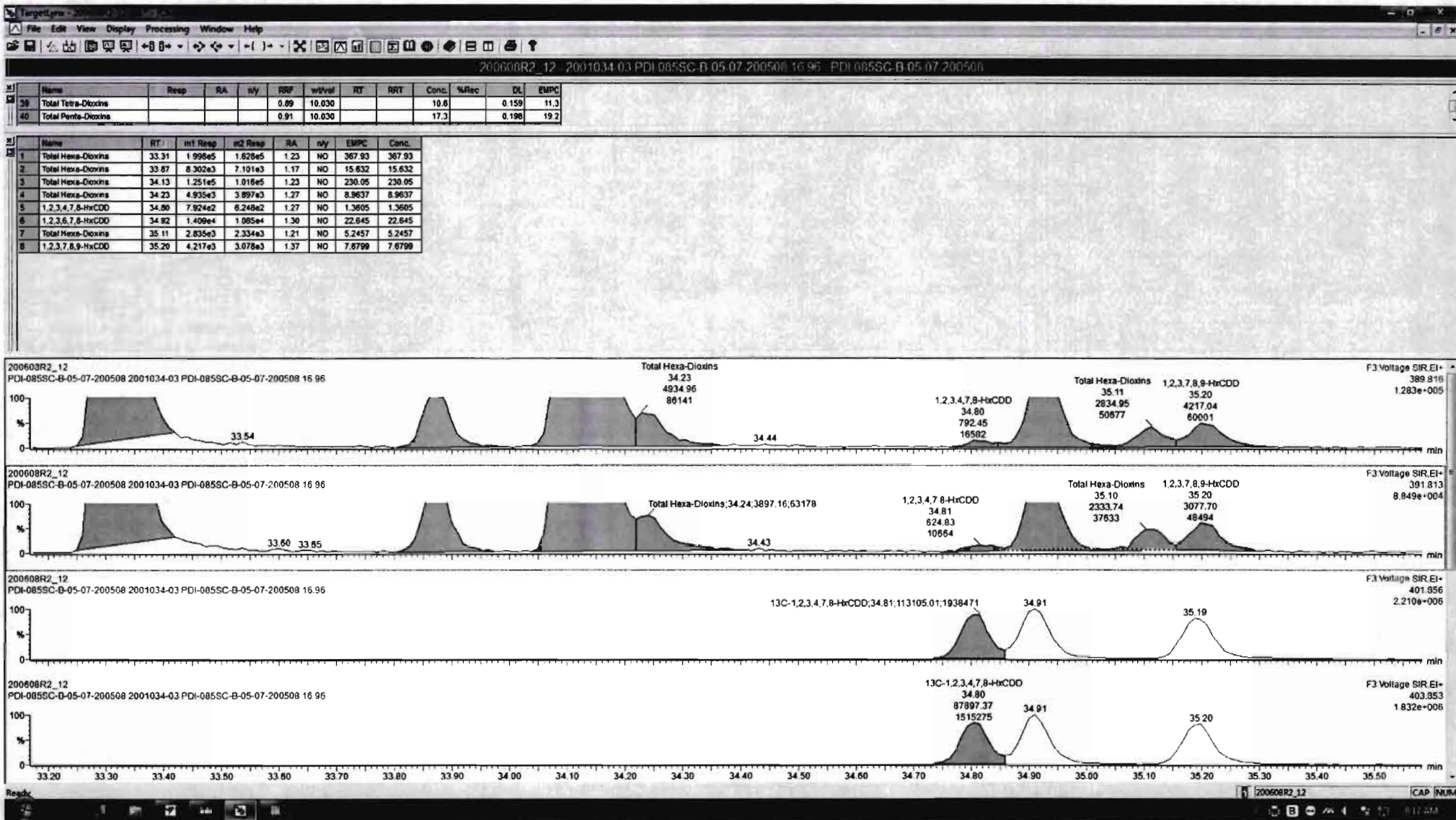
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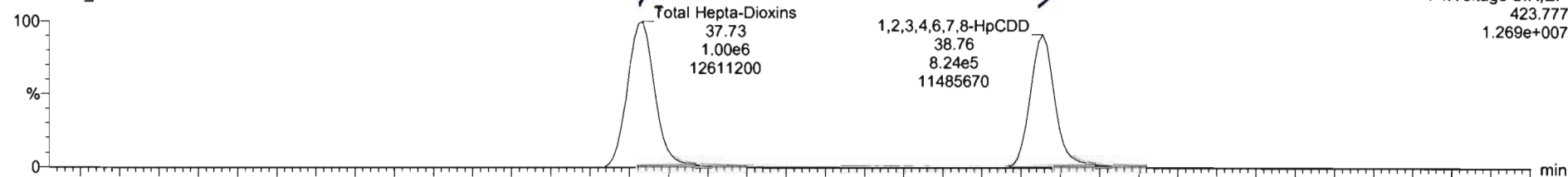
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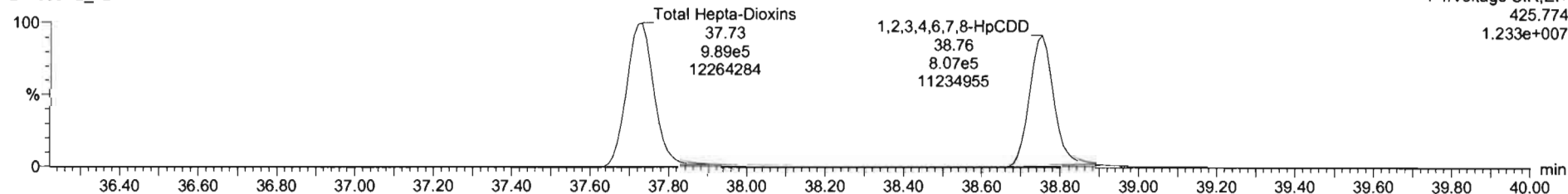
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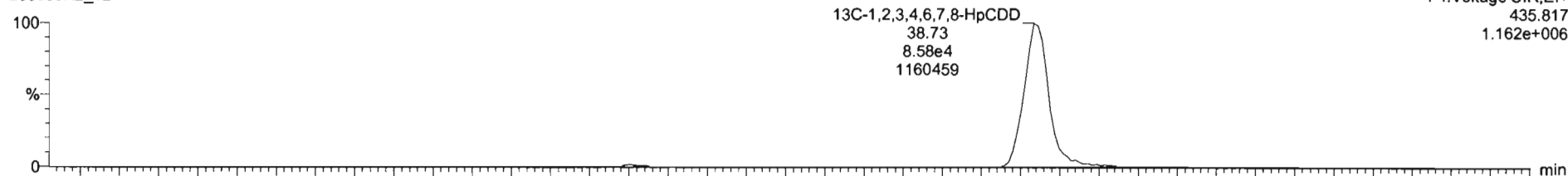


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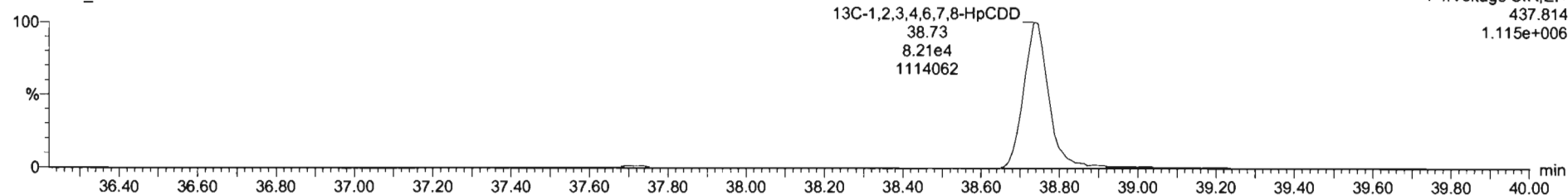


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200608R2_12



200608R2_12



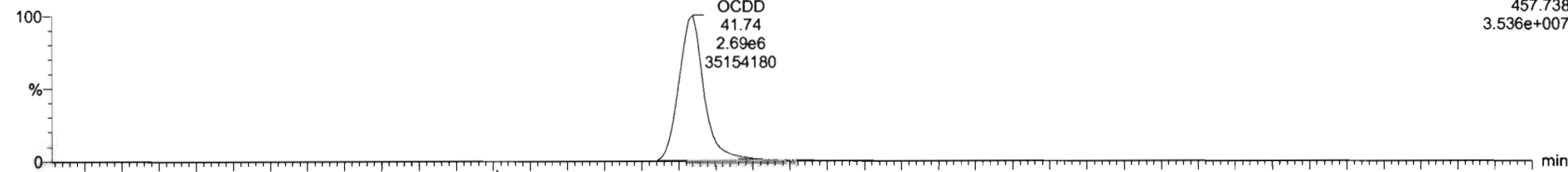
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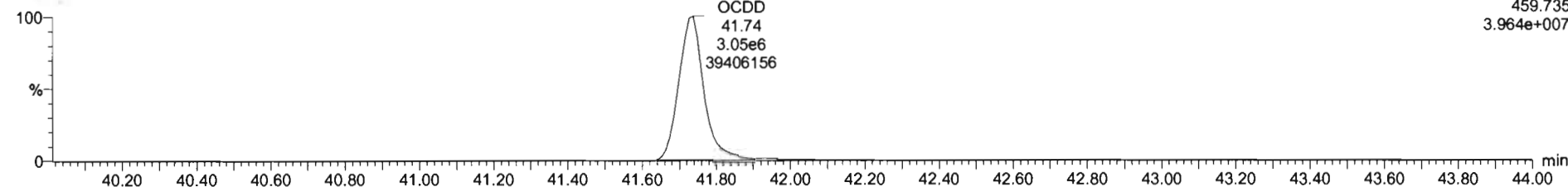
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3.536e+007

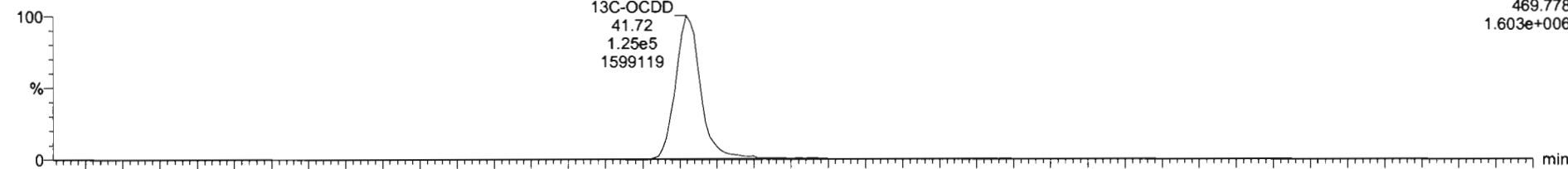
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F5:Voltage SIR,EI+
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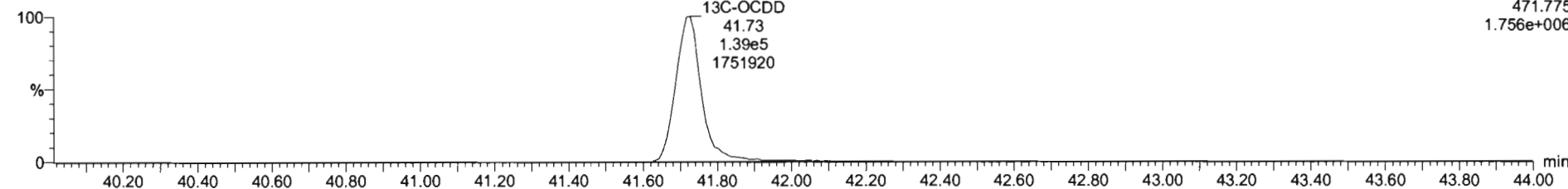
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200608R2_12



F5:Voltage SIR,EI+
469.778
1.603e+006

200608R2_12



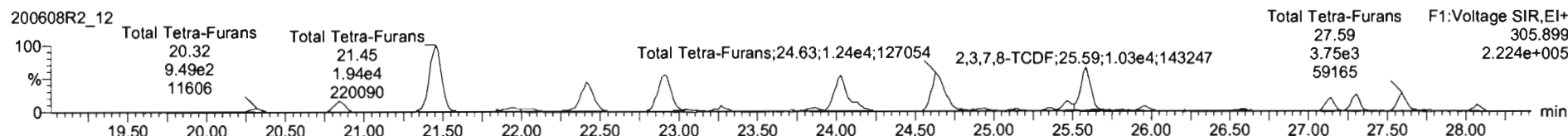
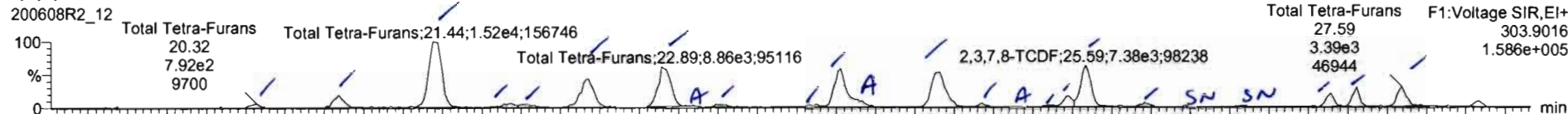
F5:Voltage SIR,EI+
471.775
1.756e+006

Dataset: Untitled

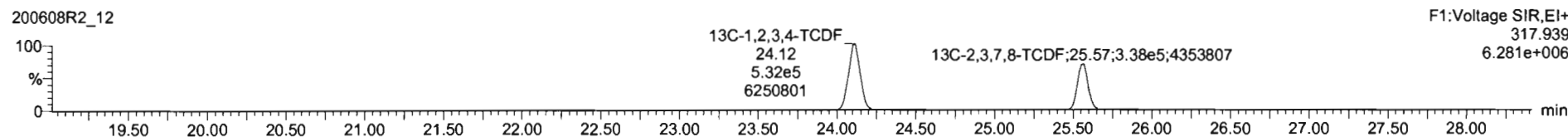
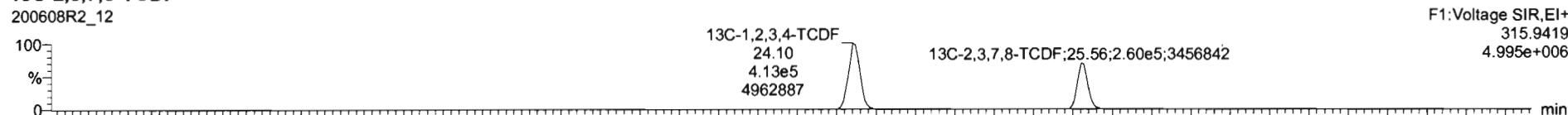
Last Altered: Tuesday, June 09, 2020 09:37:02 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 09:44:56 Pacific Daylight Time

Name: 200608R2_12, Date: 09-Jun-2020, Time: 08:41:41, ID: 2001034-03 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

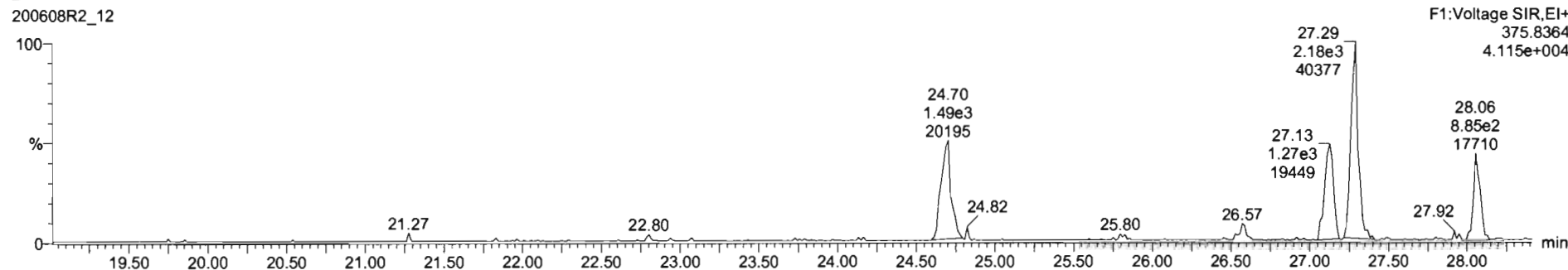
2,3,7,8-TCDF

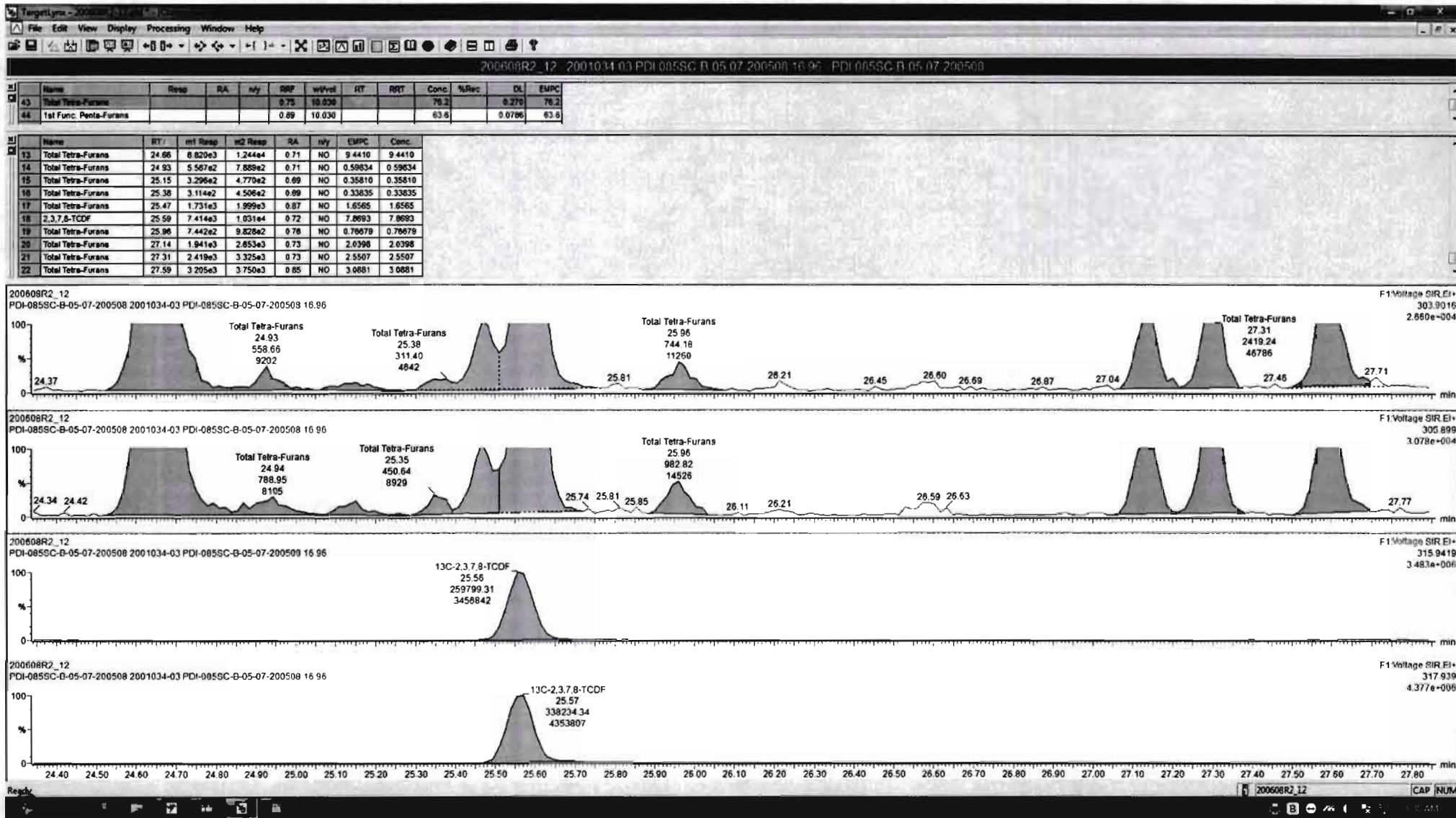


13C-2,3,7,8-TCDF



DPE1





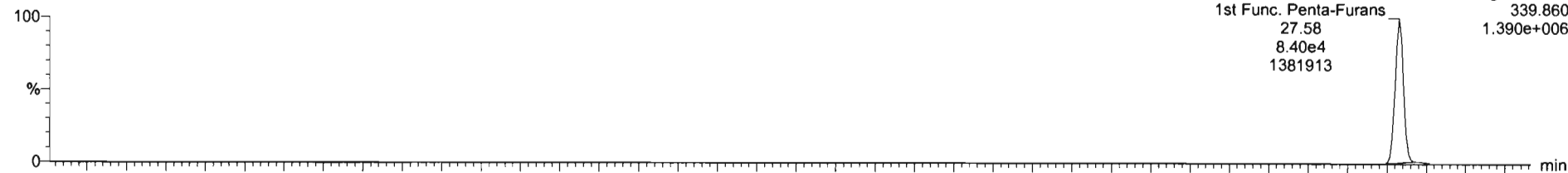
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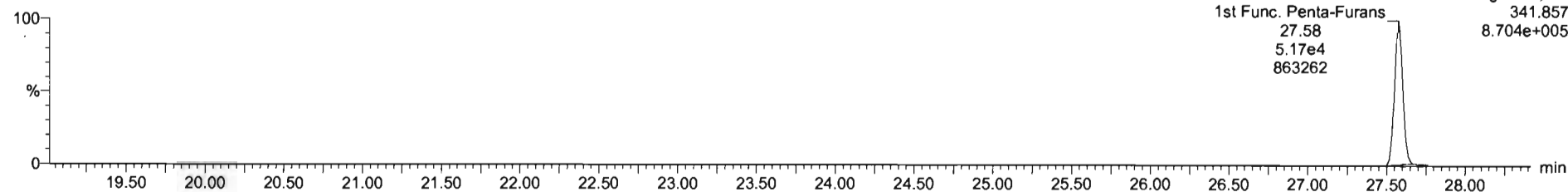
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1st Func. Penta-Furans

200608R2_12

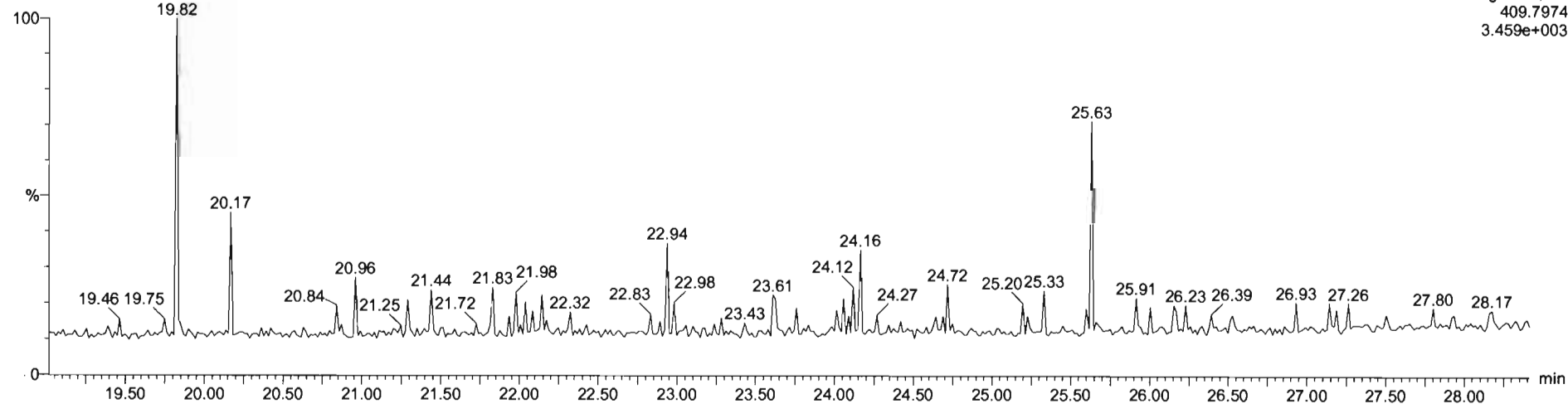


200608R2_12



DPE6

200608R2_12



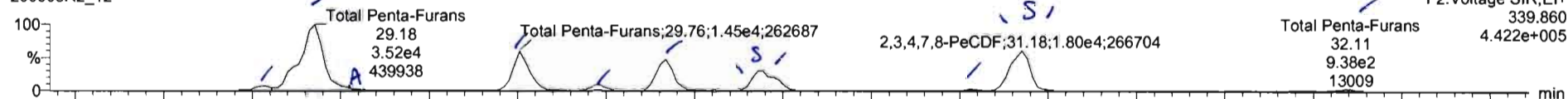
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Printed: Tuesday, June 09, 2020 09:44:56 Pacific Daylight Time

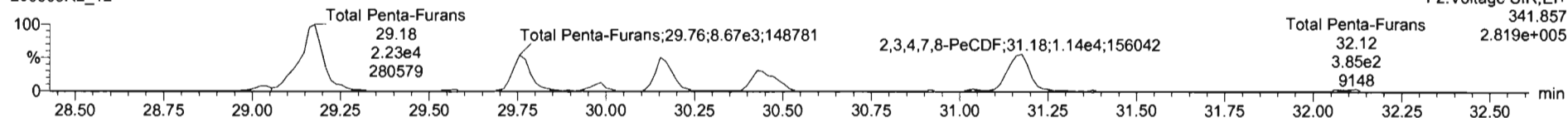
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1,2,3,7,8-PeCDF

200608R2_12

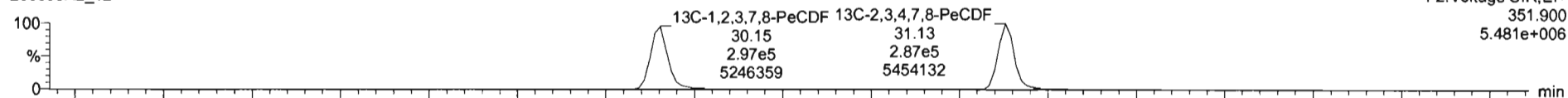


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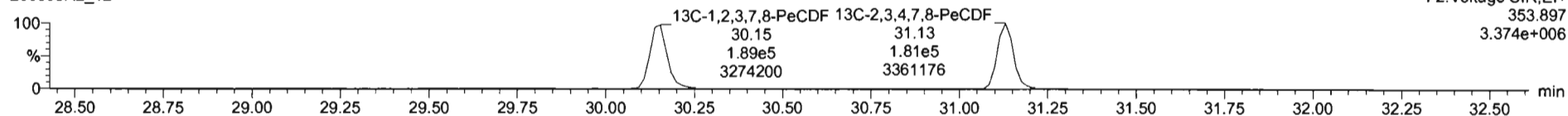


13C-1,2,3,7,8-PeCDF

200608R2_12

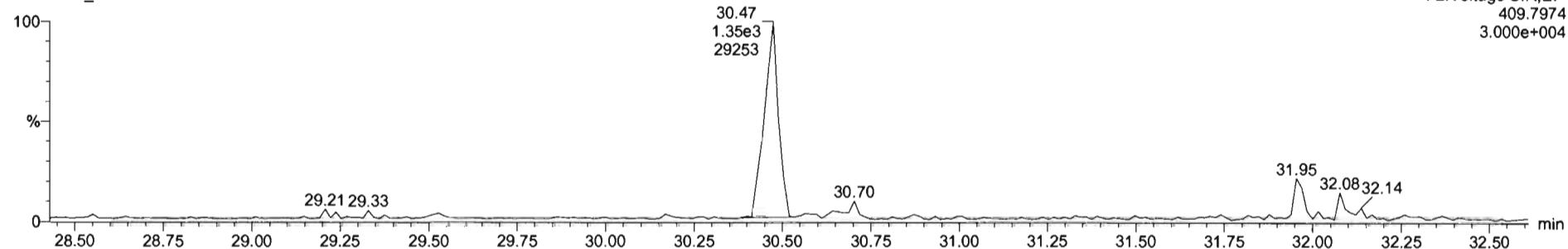


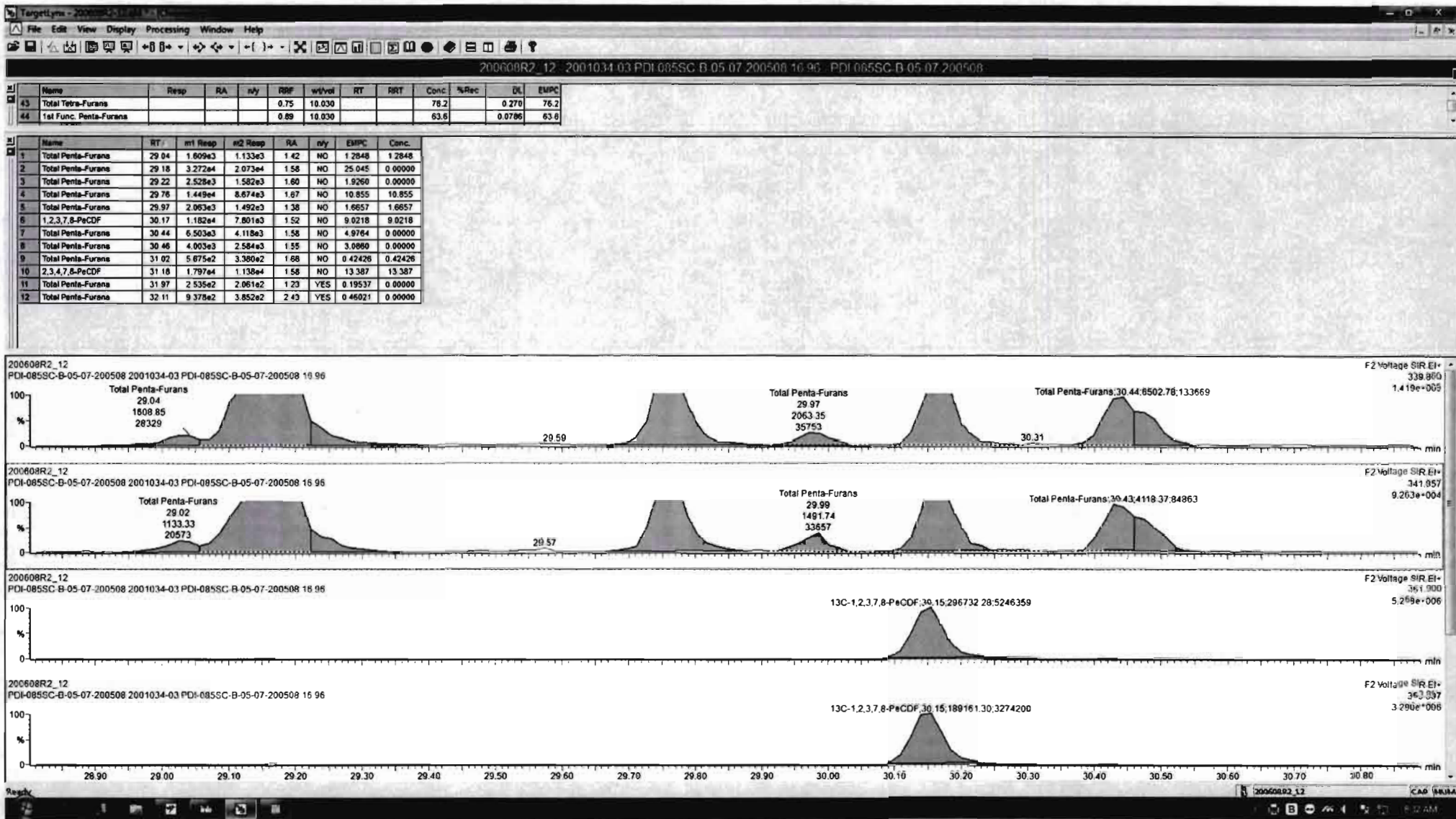
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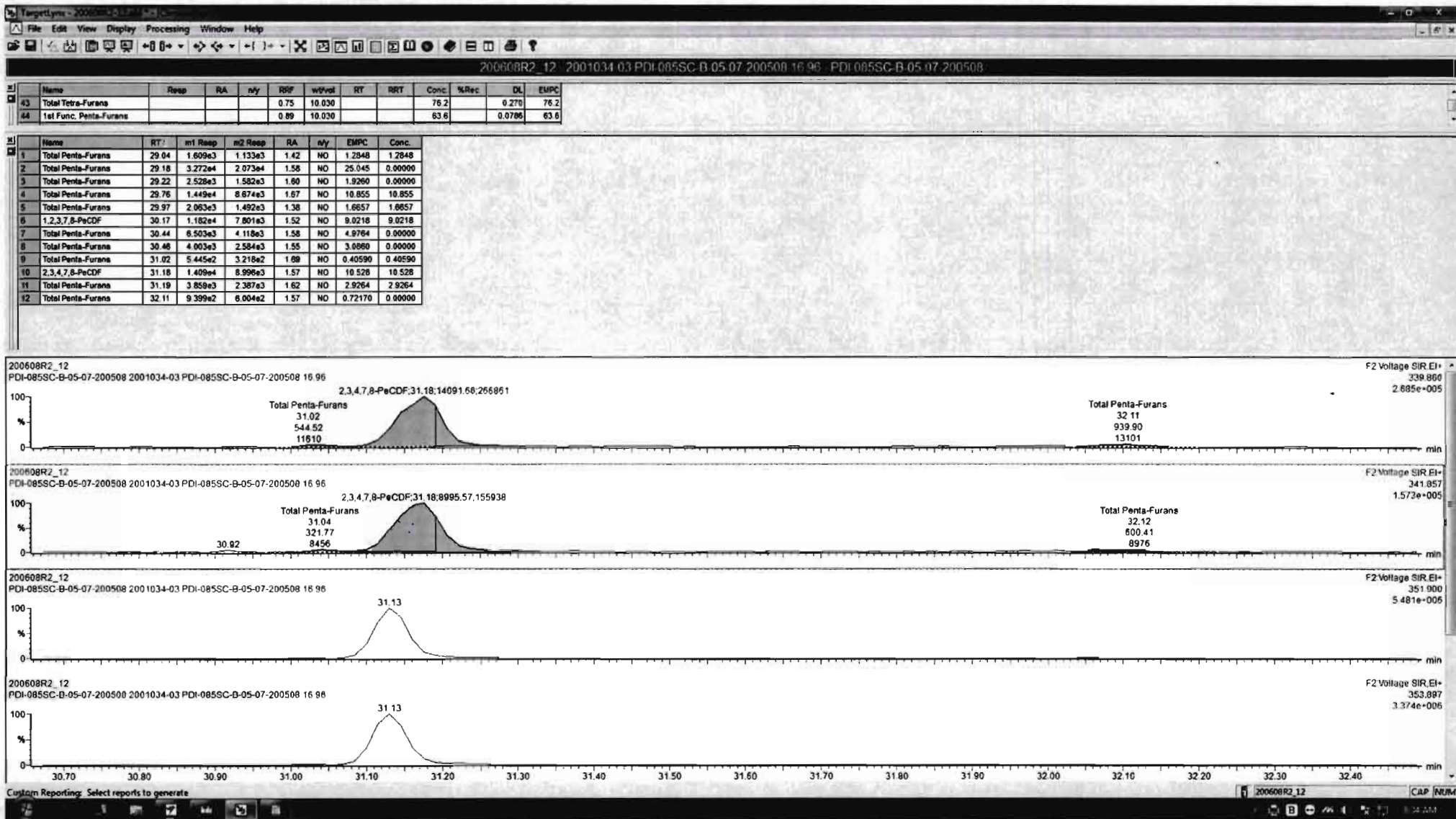


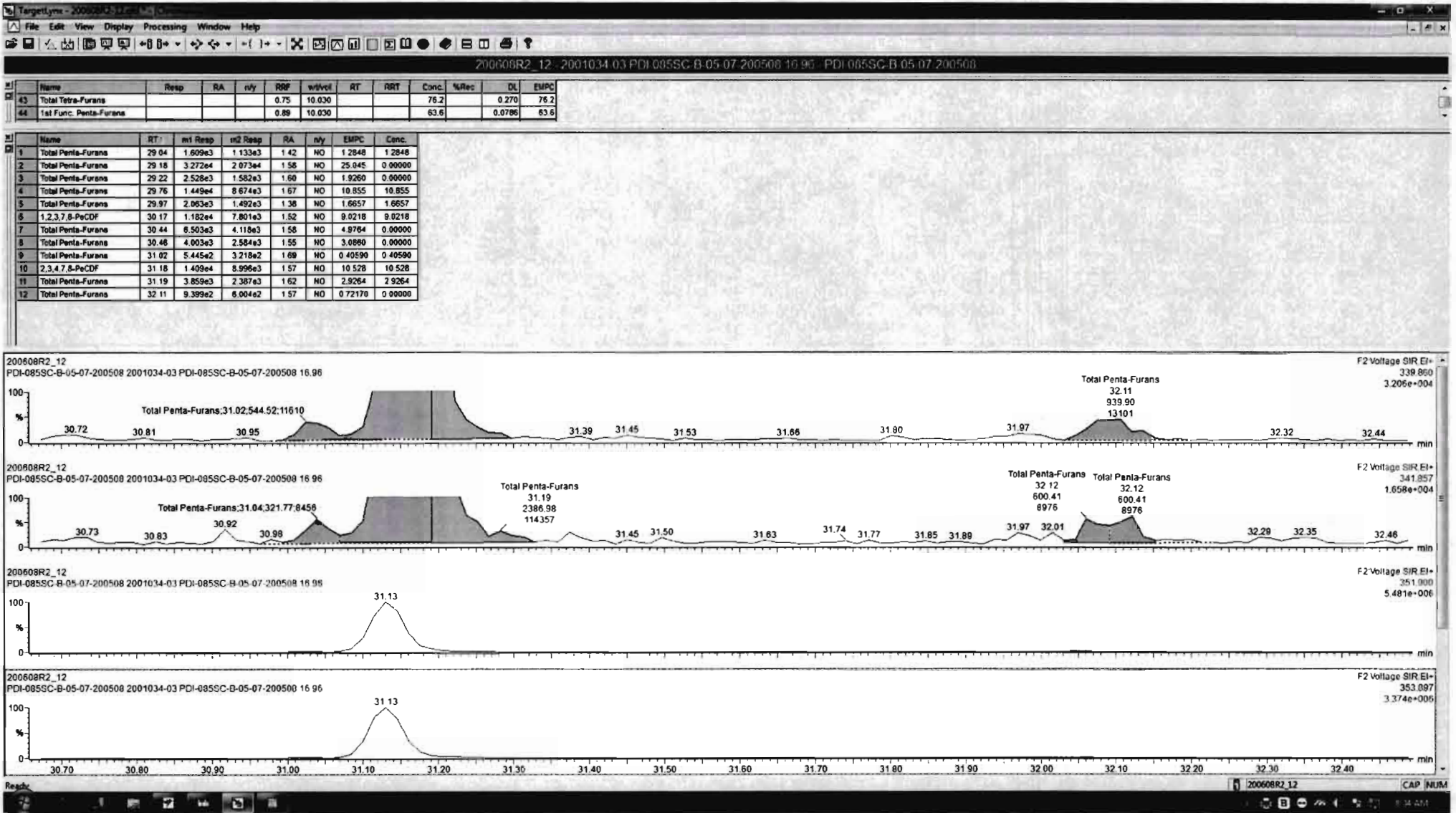
DPE2

200608R2_12







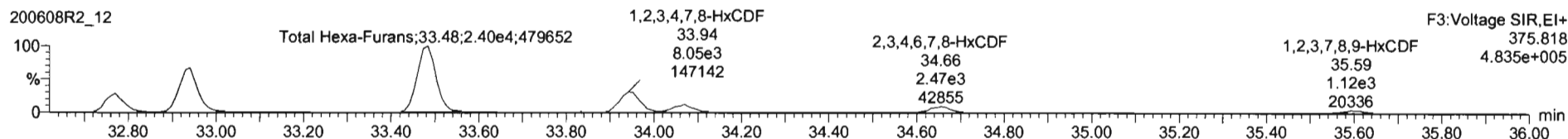
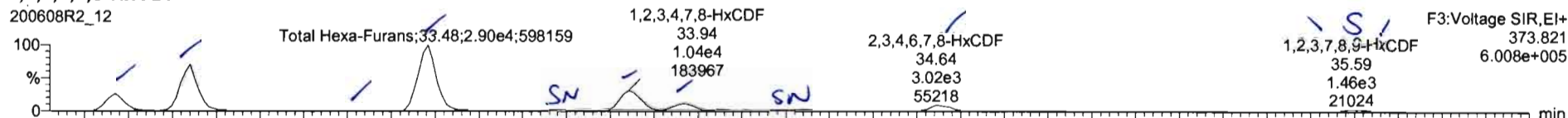


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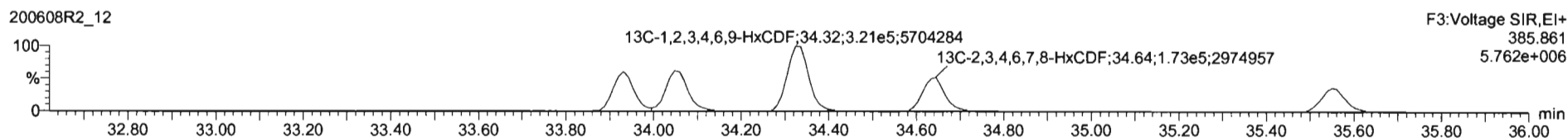
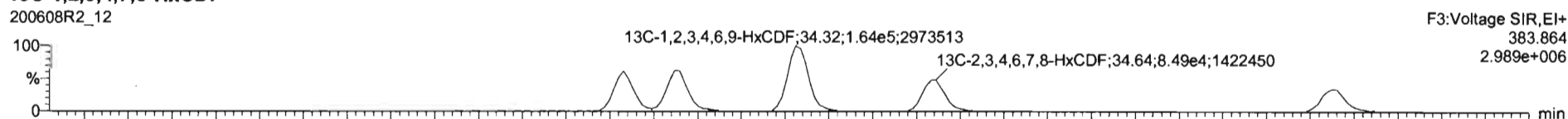
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Printed: Tuesday, June 09, 2020 09:44:56 Pacific Daylight Time

Name: 200608R2_12, Date: 09-Jun-2020, Time: 08:41:41, ID: 2001034-03 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

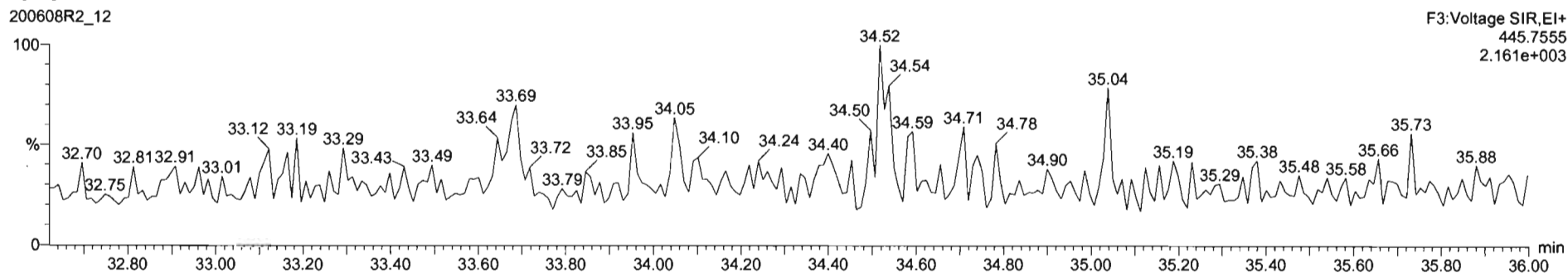
1,2,3,4,7,8-HxCDF

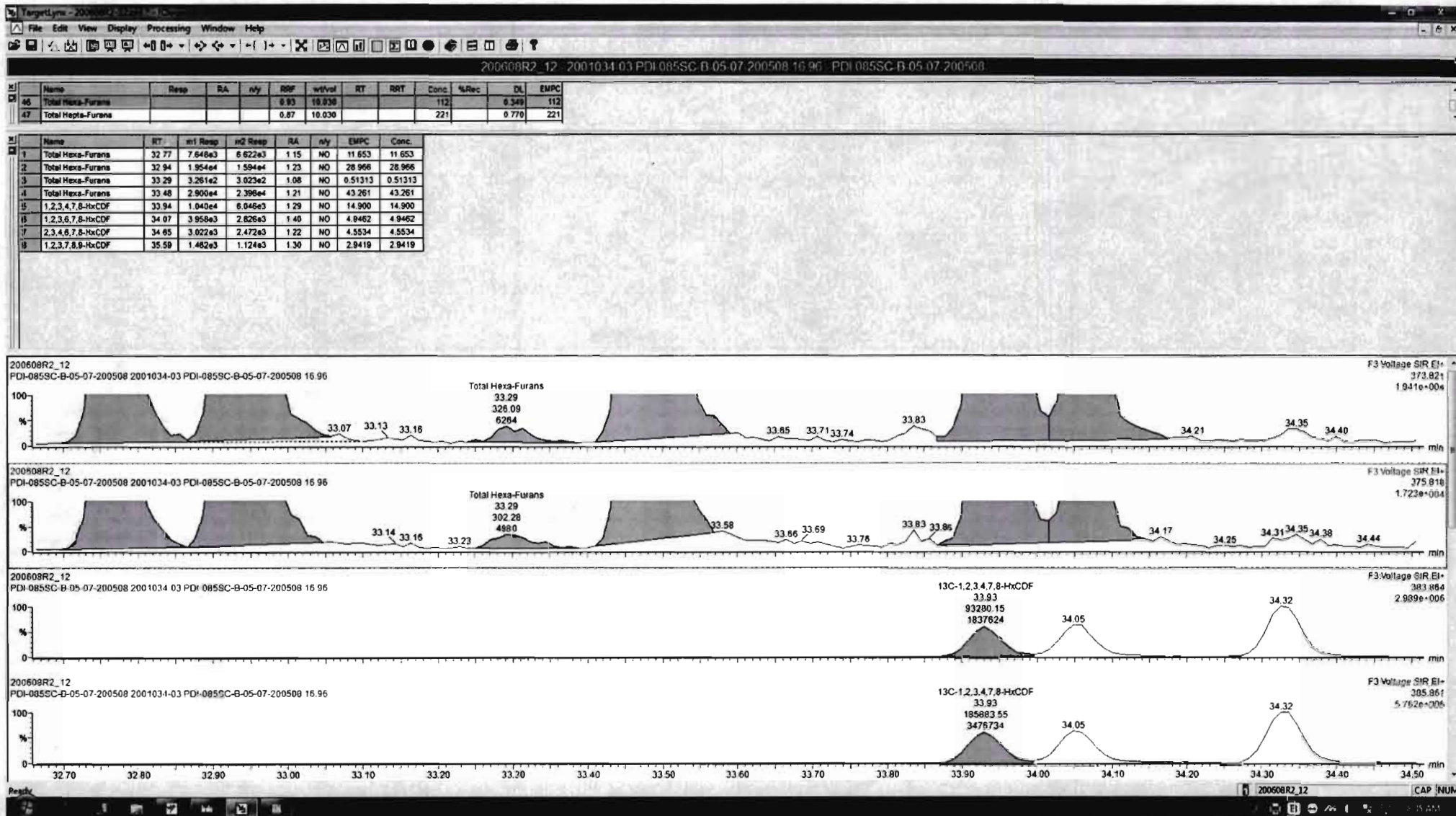


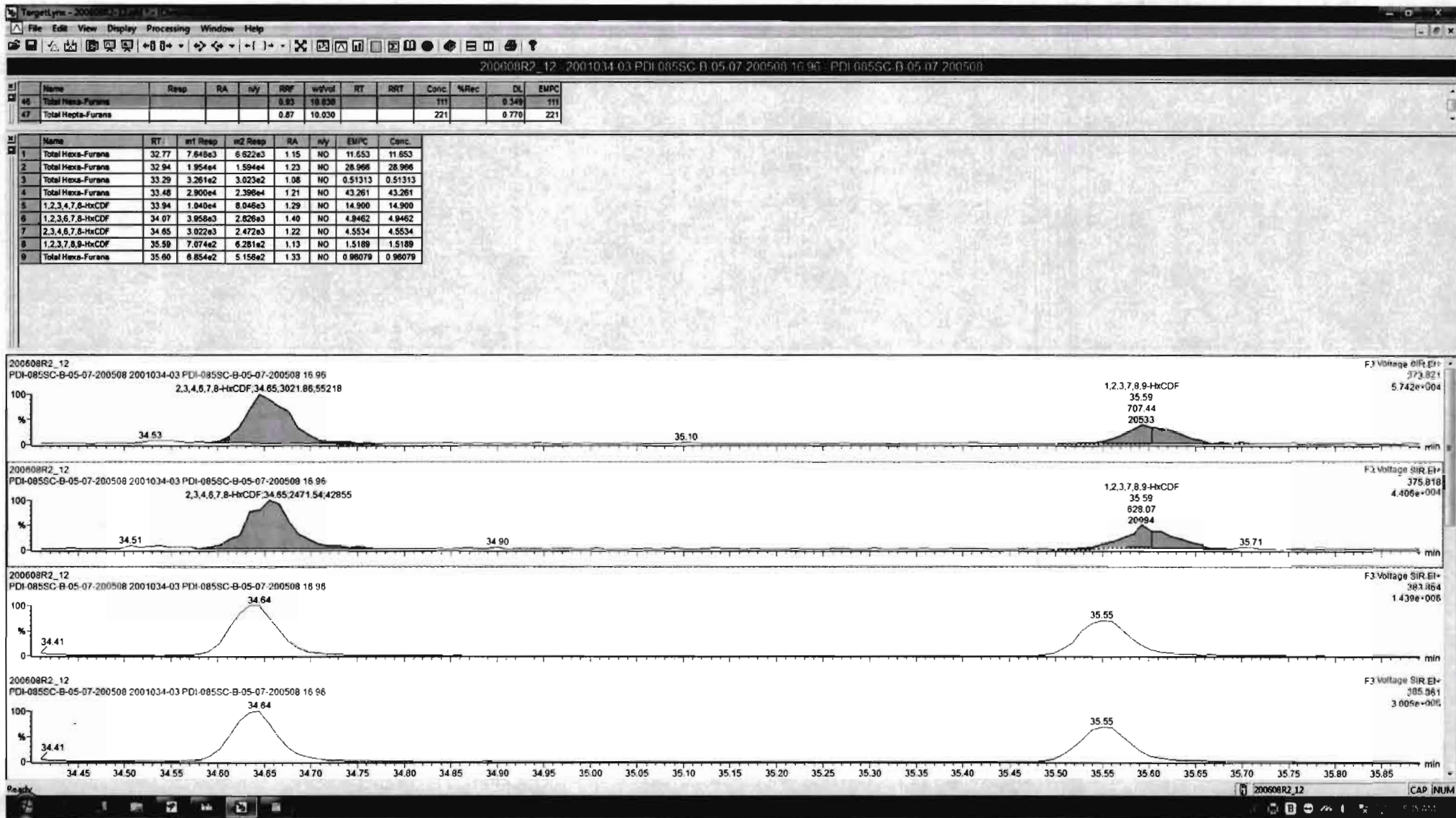
13C-1,2,3,4,7,8-HxCDF



DPE3







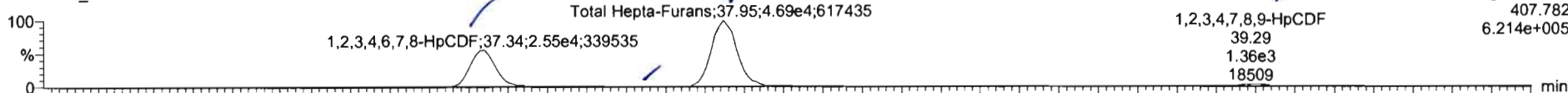
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Printed: Tuesday, June 09, 2020 09:44:56 Pacific Daylight Time

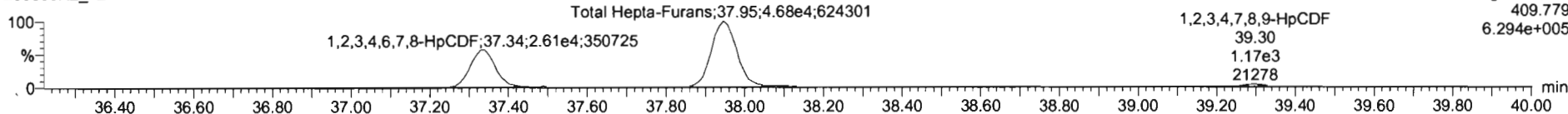
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1,2,3,4,6,7,8-HpCDF

200608R2_12

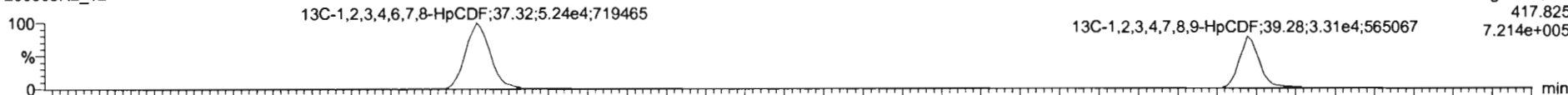


200608R2_12

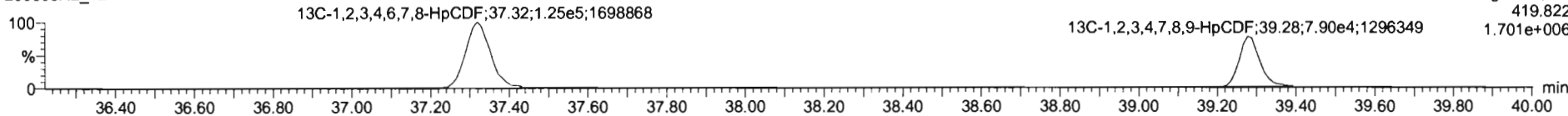


13C-1,2,3,4,6,7,8-HpCDF

200608R2_12

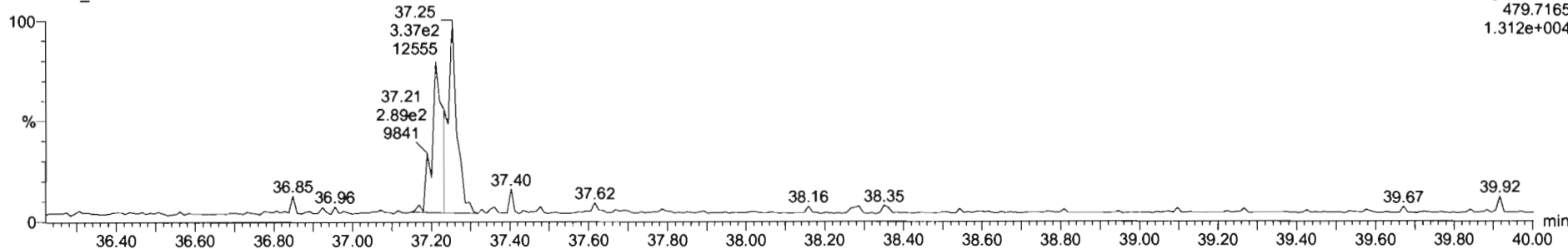


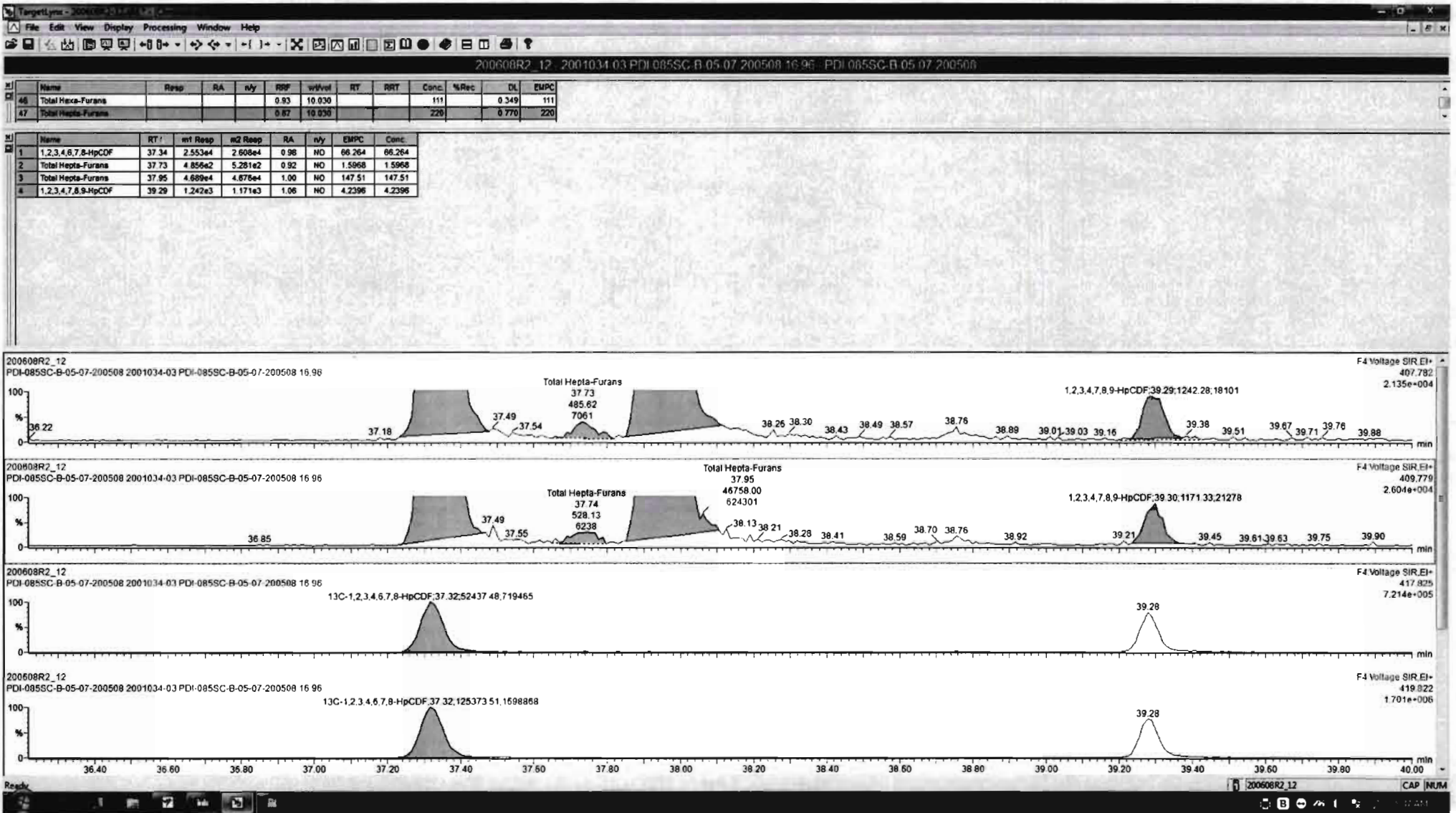
200608R2_12



DPE4

200608R2_12



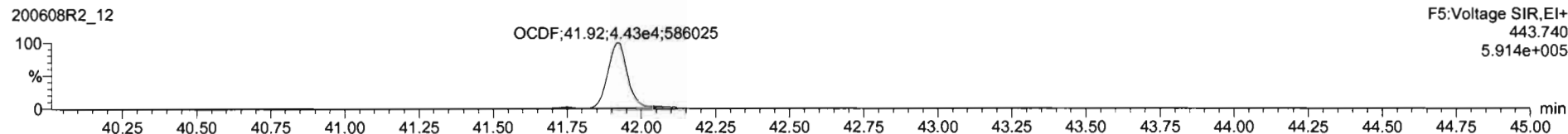
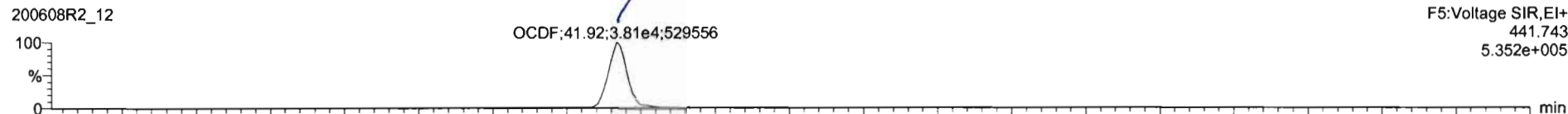


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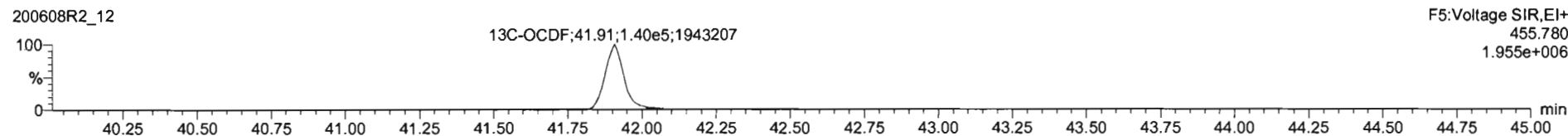
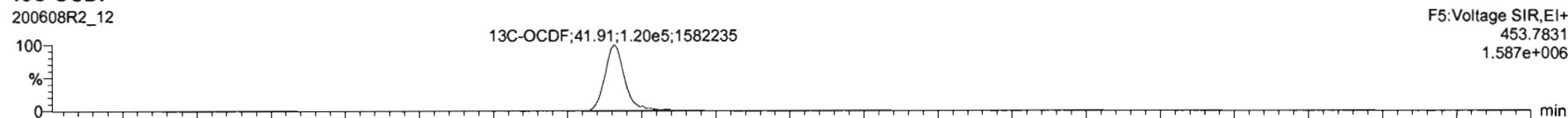
Last Altered: Tuesday, June 09, 2020 09:37:02 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 09:44:56 Pacific Daylight Time

Name: 200608R2_12, Date: 09-Jun-2020, Time: 08:41:41, ID: 2001034-03 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

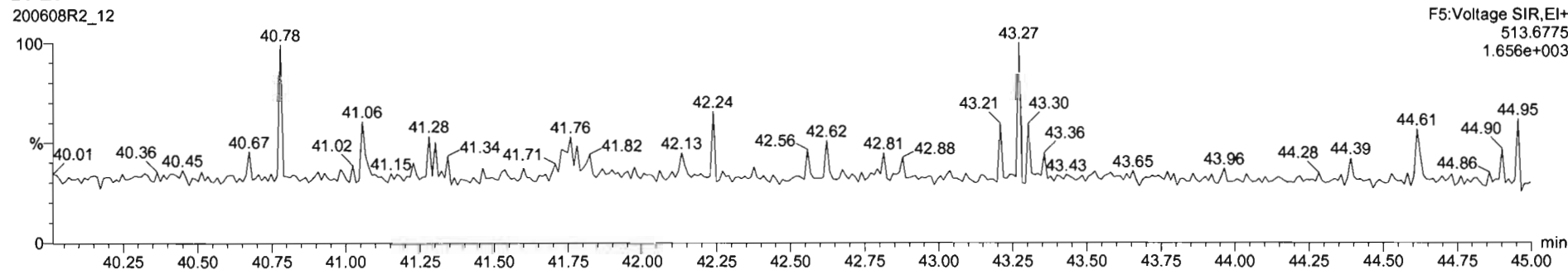
OCDF



13C-OCDF



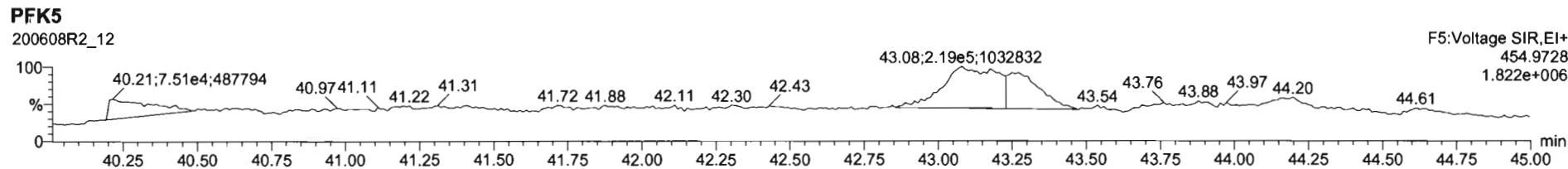
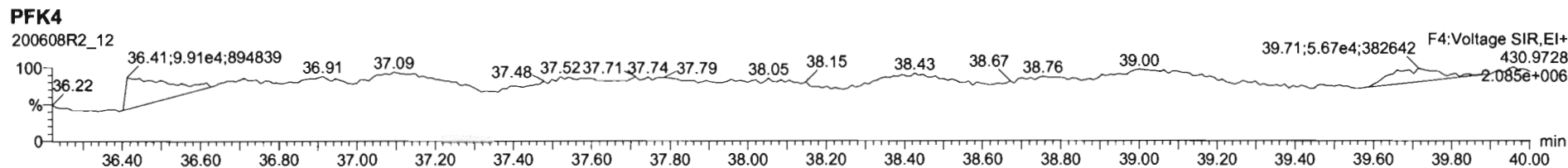
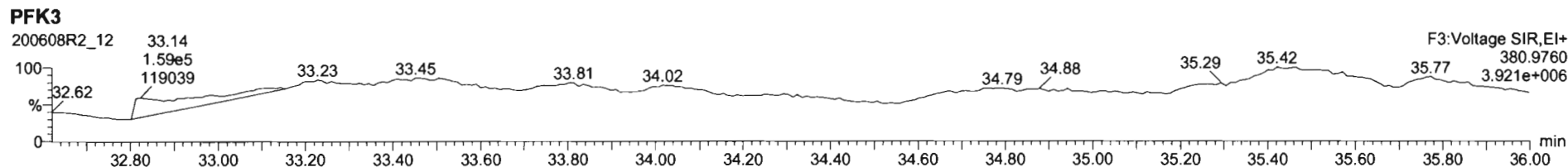
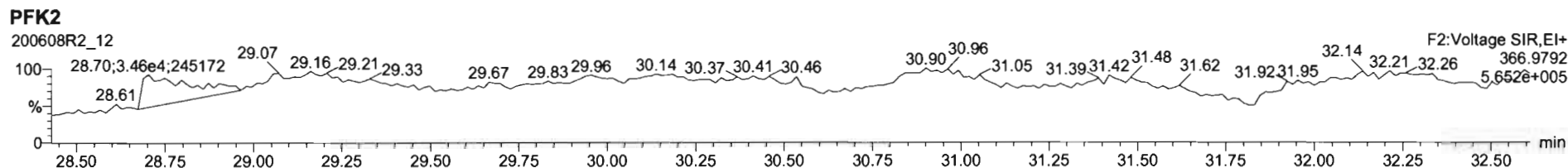
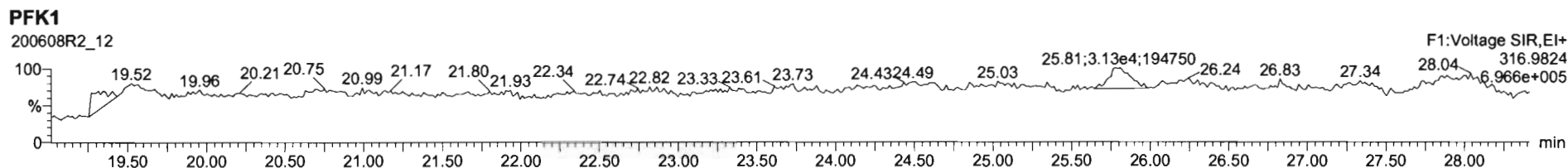
DPE5



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Name: 200608R2_12, Date: 09-Jun-2020, Time: 08:41:41, ID: 2001034-03 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508



Dataset: U:\VG12.PRO\Results\200609R2\200609R2-15.qld

Last Altered: Wednesday, June 10, 2020 11:49:33 AM Pacific Daylight Time
Printed: Friday, June 12, 2020 8:48:13 AM Pacific Daylight Time

GPB 06/12/2020

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

G 06/12/2020

Name: 200609R2_15, Date: 10-Jun-2020, Time: 10:16:16, ID: 2001034-03@2X PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	2.48e6	0.88	NO	0.914	10.030	41.706	41.72	1.000	1.000	9673.6		5.64	9670
2	24 13C-OCDD	1.12e5	0.90	NO	0.652	10.030	41.736	41.71	1.216	1.215	162.80	40.8	0.900	
3	35 37Cl-2,3,7,8-TCDD	8.12e4			1.04	10.030	26.523	26.48	1.028	1.026	50.071	62.8	0.116	
4	36 13C-1,2,3,4-TCDD	3.12e5	0.76	NO	1.00	10.030	25.890	25.81	1.000	1.000	199.41	100	0.586	
5	37 13C-1,2,3,4-TCDF	4.22e5	0.77	NO	1.00	10.030	24.360	24.12	1.000	1.000	199.41	100	0.739	
6	38 13C-1,2,3,4,6,9-HxCDF	2.11e5	0.49	NO	1.00	10.030	34.420	34.33	1.000	1.000	199.41	100	1.00	

Dataset: Untitled

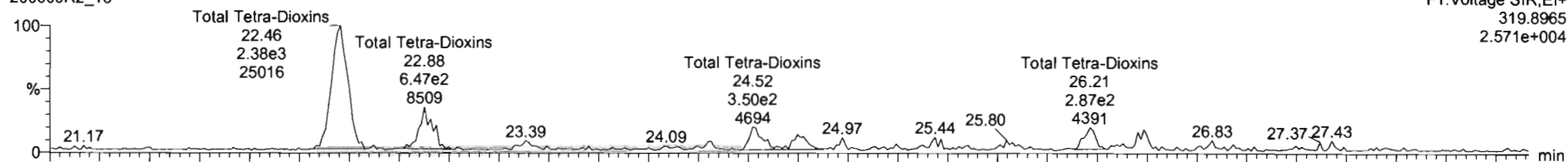
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

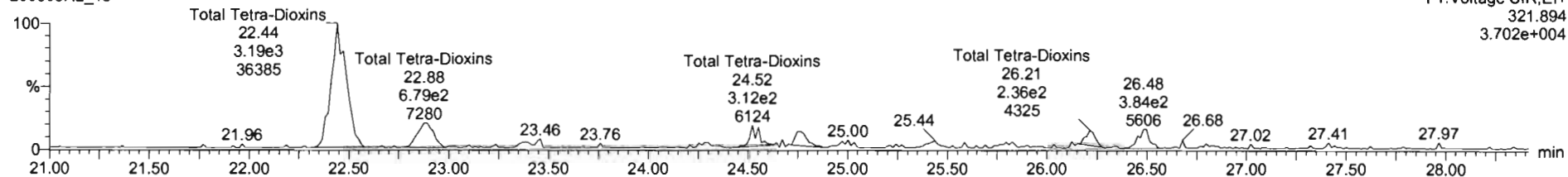
Name: 200609R2_15, Date: 10-Jun-2020, Time: 10:16:16, ID: 2001034-03@2X PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

2,3,7,8-TCDD

200609R2_15

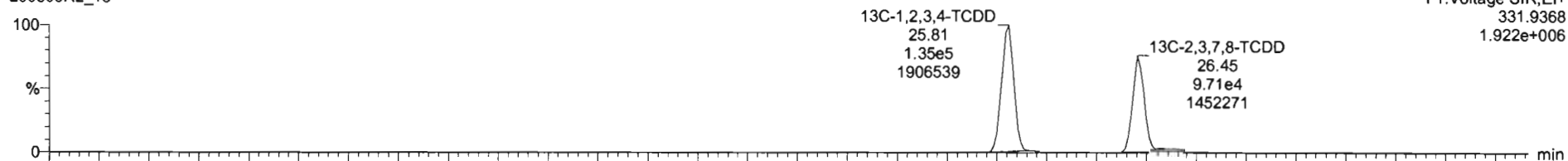


200609R2_15

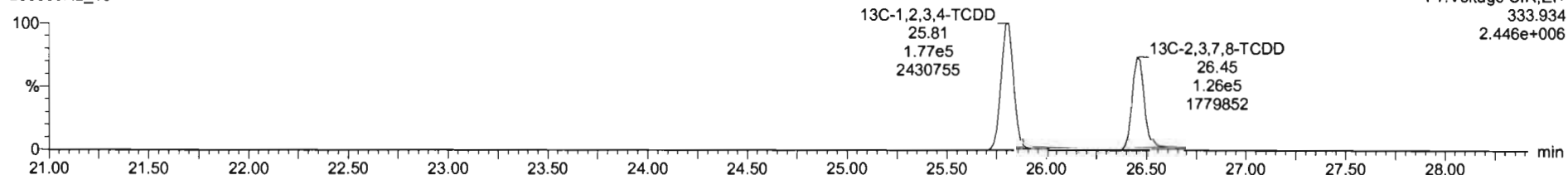


13C-2,3,7,8-TCDD

200609R2_15



200609R2_15



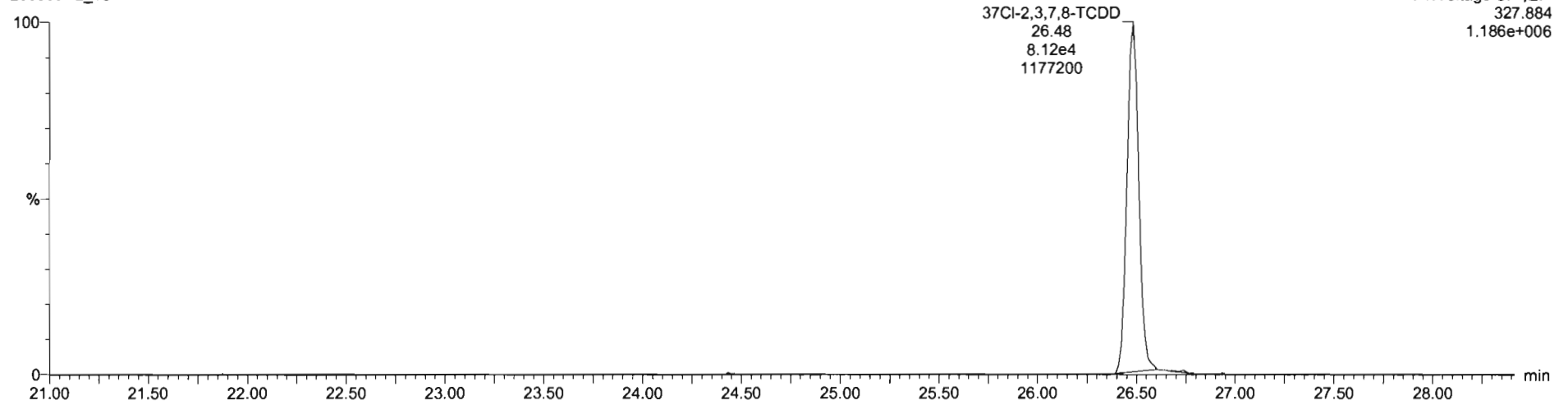
Dataset: Untitled

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Printed: Wednesday, June 10, 2020 11:49:53 Pacific Daylight Time

Name: 200609R2_15, Date: 10-Jun-2020, Time: 10:16:16, ID: 2001034-03@2X PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

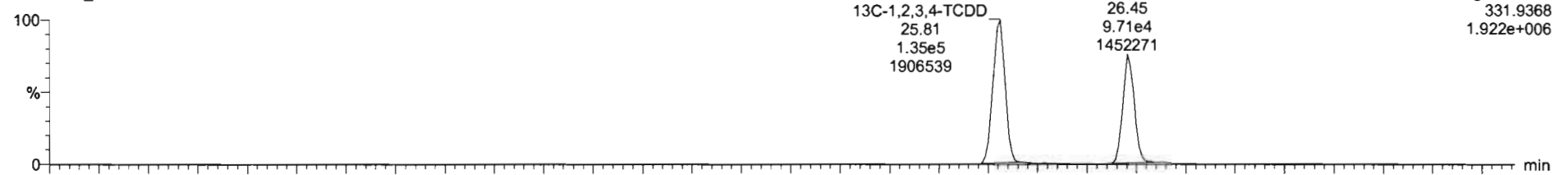
37Cl-2,3,7,8-TCDD

200609R2_15

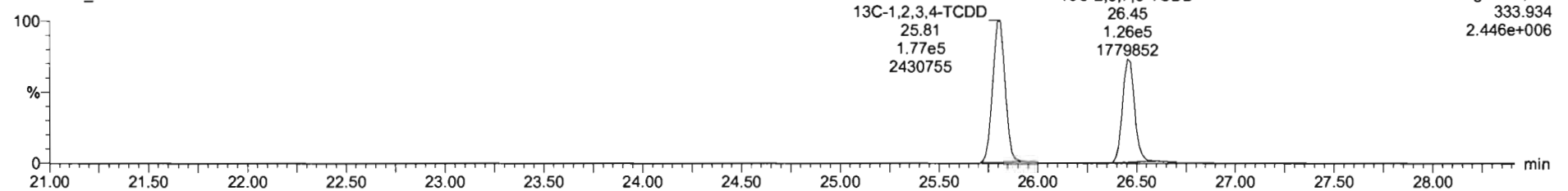


13C-1,2,3,4-TCDD

200609R2_15



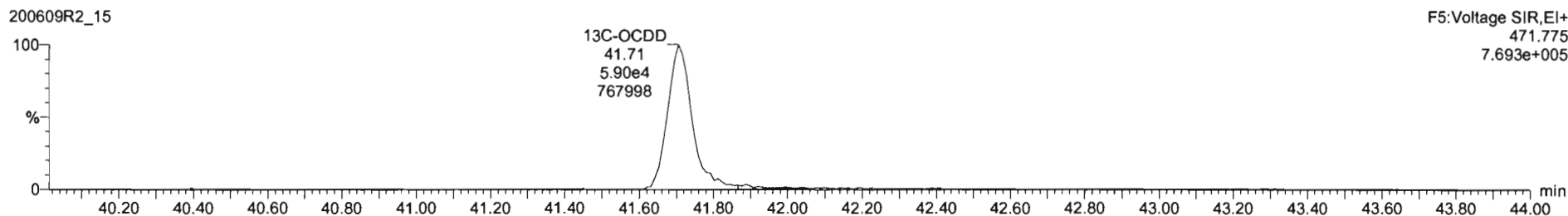
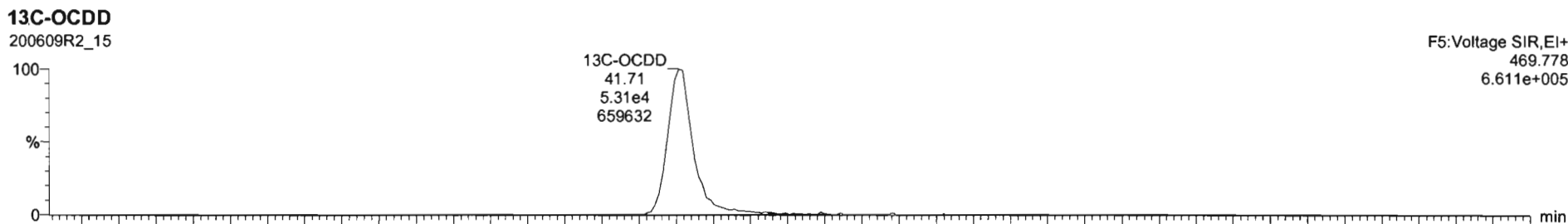
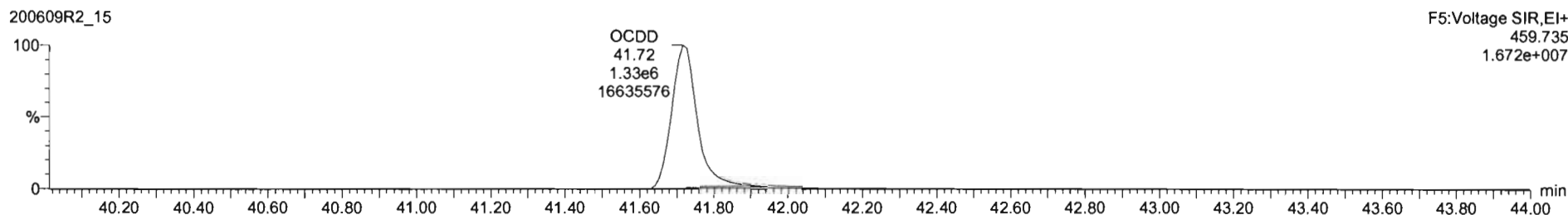
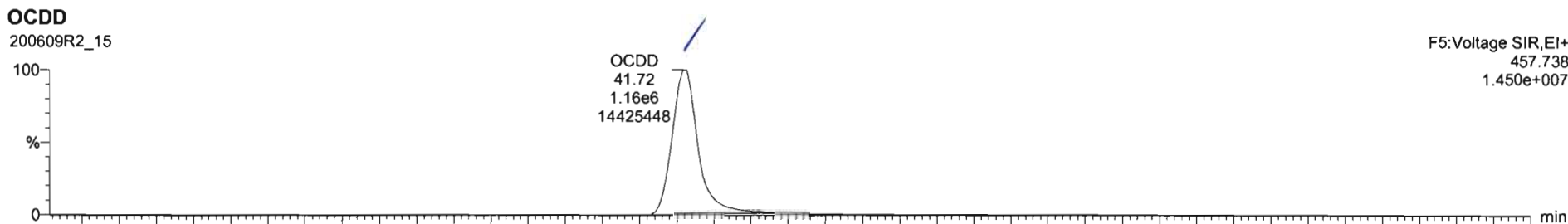
200609R2_15



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Last Altered: Wednesday, June 10, 2020 11:49:33 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 11:49:53 Pacific Daylight Time

Name: 200609R2_15, Date: 10-Jun-2020, Time: 10:16:16, ID: 2001034-03@2X PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

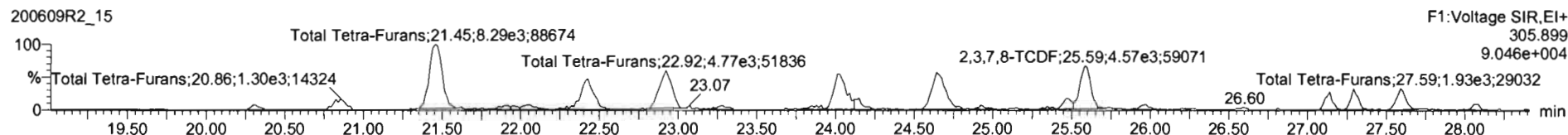
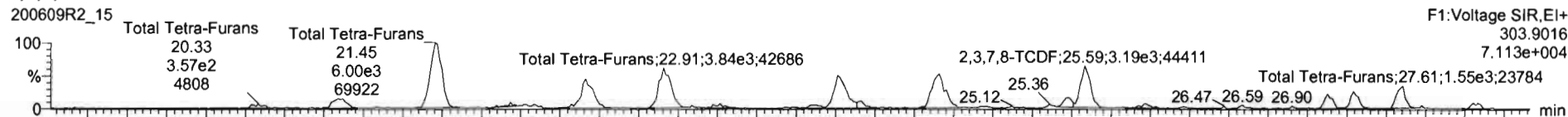


Dataset: Untitled

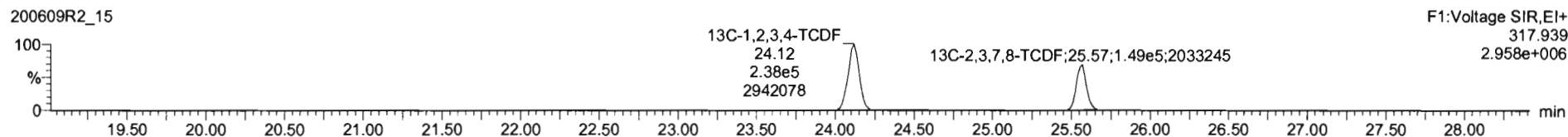
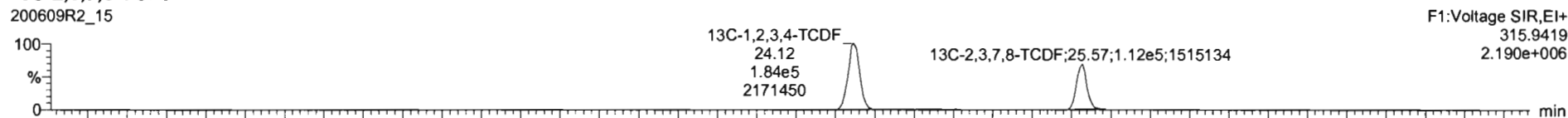
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Printed: Wednesday, June 10, 2020 11:49:53 Pacific Daylight Time

Name: 200609R2_15, Date: 10-Jun-2020, Time: 10:16:16, ID: 2001034-03@2X PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

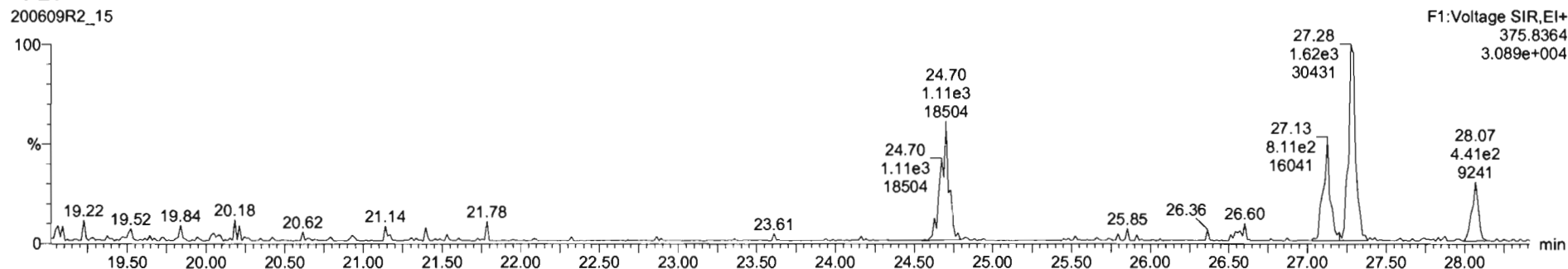
2,3,7,8-TCDF



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



DPE1

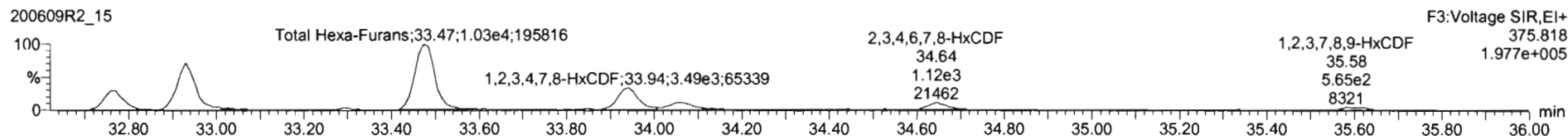
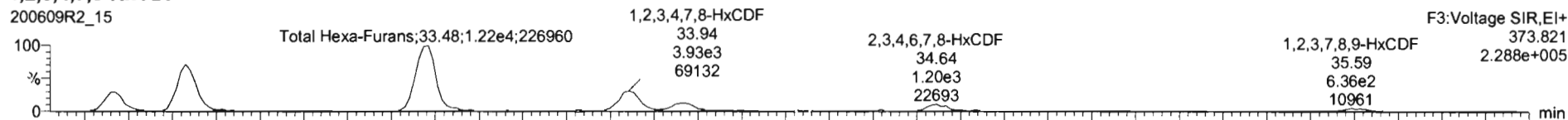


Dataset: Untitled

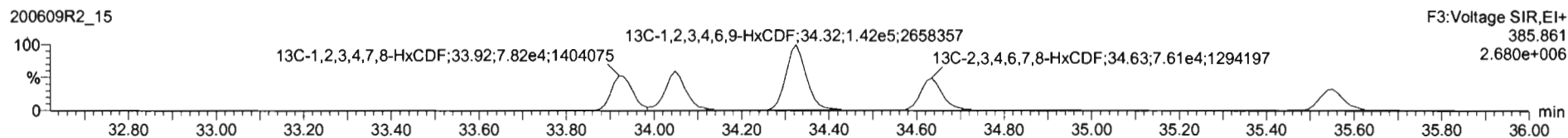
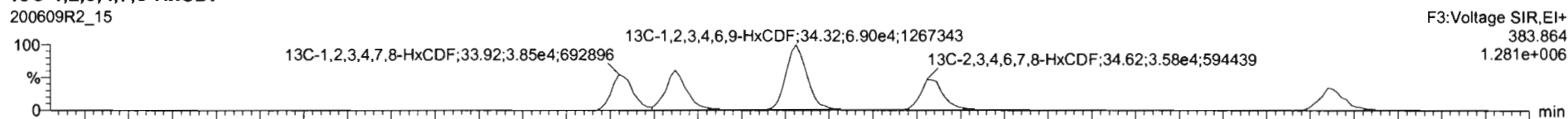
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Printed: Wednesday, June 10, 2020 11:49:53 Pacific Daylight Time

Name: 200609R2_15, Date: 10-Jun-2020, Time: 10:16:16, ID: 2001034-03@2X PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

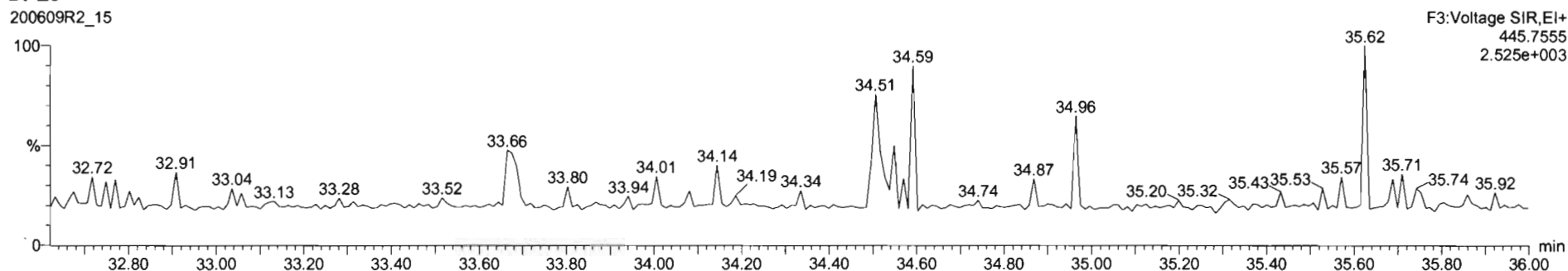
1,2,3,4,7,8-HxCDF



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



DPE3



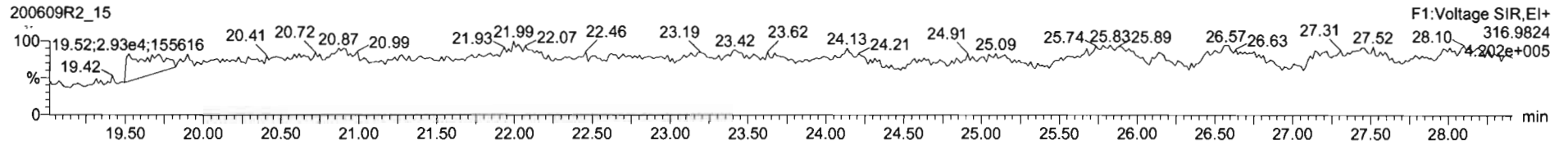
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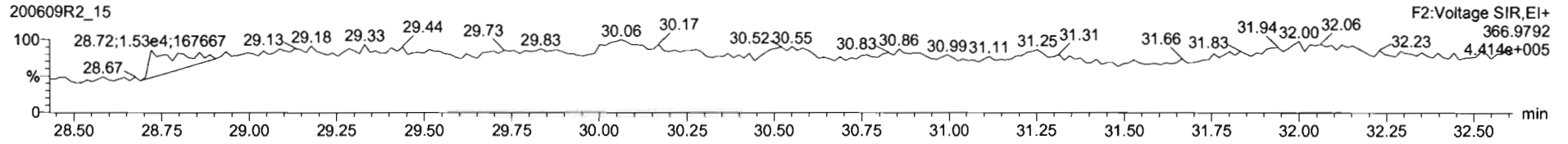
Printed: Wednesday, June 10, 2020 11:49:53 Pacific Daylight Time

Name: 200609R2_15, Date: 10-Jun-2020, Time: 10:16:16, ID: 2001034-03@2X PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

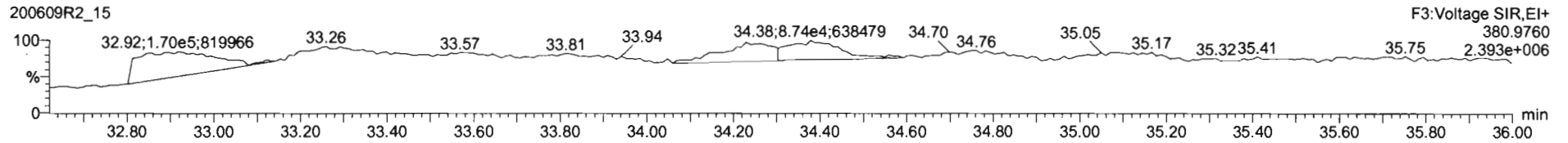
PFK1



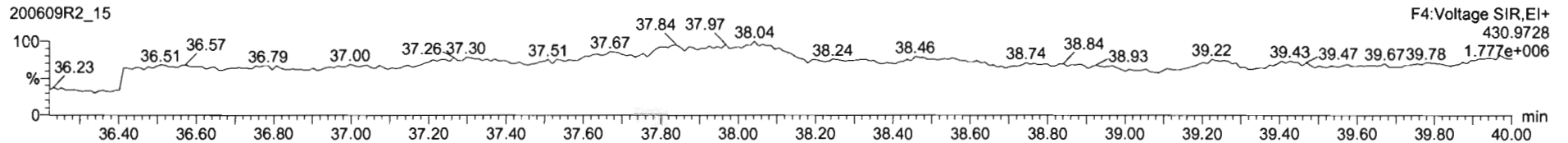
PFK2



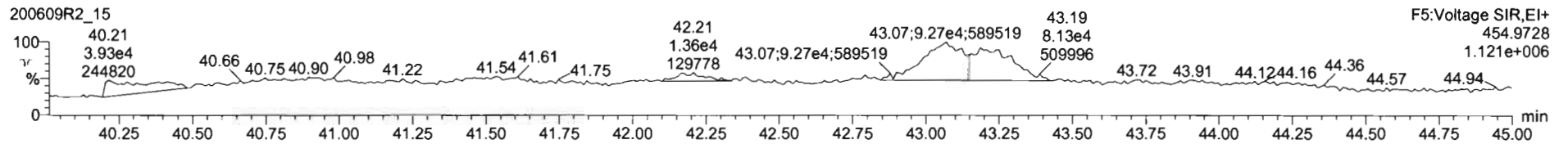
PFK3



PFK4



PFK5



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200610D1\200610D1_20.qld

Last Altered: Thursday, June 11, 2020 10:16:56 Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:20:03 Pacific Daylight Time

DB 6/11/20

C706/12/2020

Method: Untitled 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200610D1_20, Date: 10-Jun-2020, Time: 21:46:00, ID: 2001034-01RE1 PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	8.54e2	0.88	NO	0.982	10.014	✓ 17.782	17.84	1.000	1.005	13,295		3.99	13.3
2	2 13C-2,3,7,8-TCDF	1.31e4	0.78	NO	1.08	10.014	17.794	17.76	1.133	1.136	107,26	53.7	5.70	
3	3 13C-1,2,3,4-TCDF	2.25e4	0.76	NO	1.00	10.014	15.660	15.63	1.000	1.000	199,73	100	6.17	

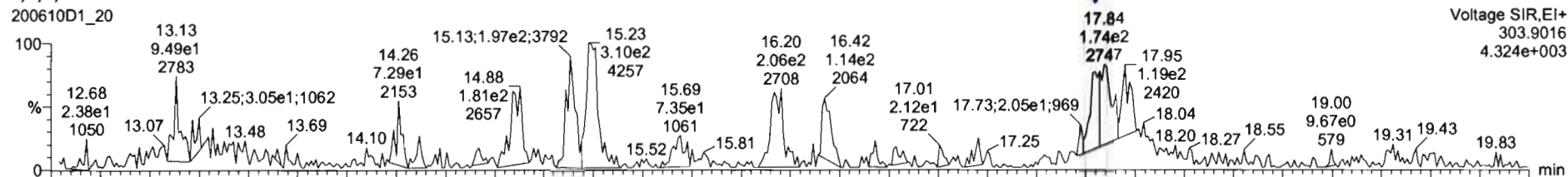
Dataset: U:\VG7.PRO\Results\200610D1\200610D1_20.qld

Last Altered: Wednesday, June 10, 2020 23:36:01 Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:06:05 Pacific Daylight Time

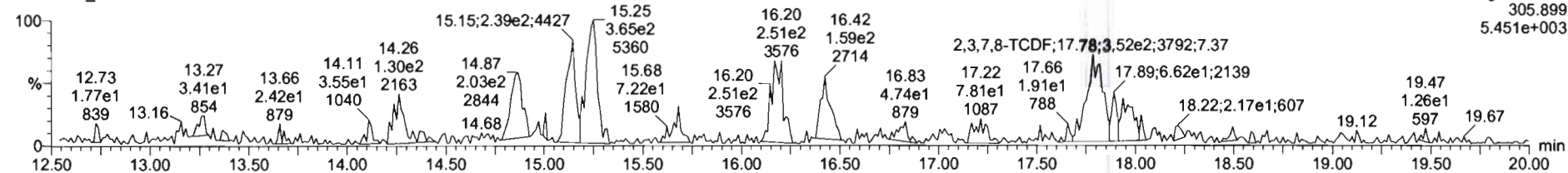
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\ldb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200610D1_20, Date: 10-Jun-2020, Time: 21:46:00, ID: 2001034-01RE1 PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

2,3,7,8-TCDF



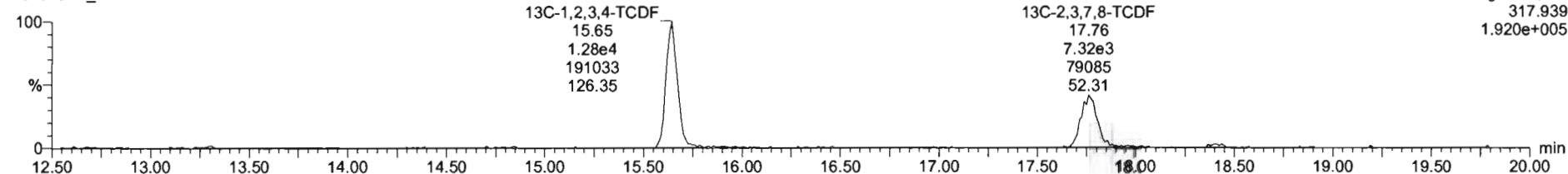
200610D1_20

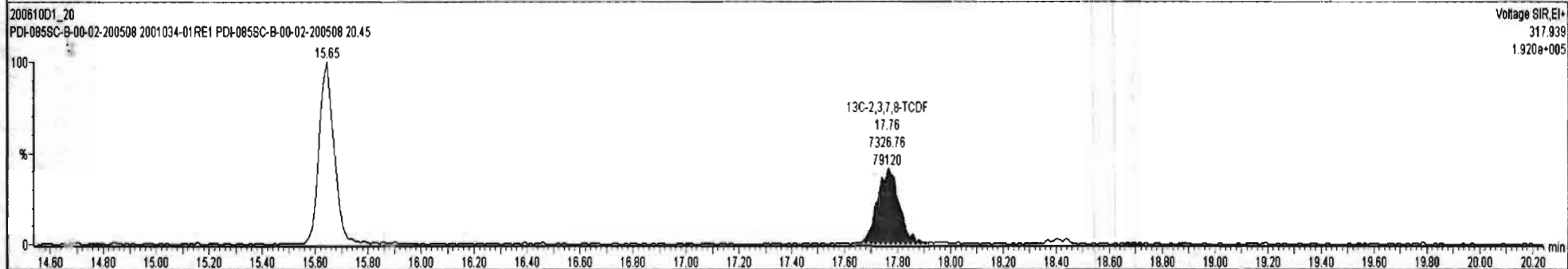
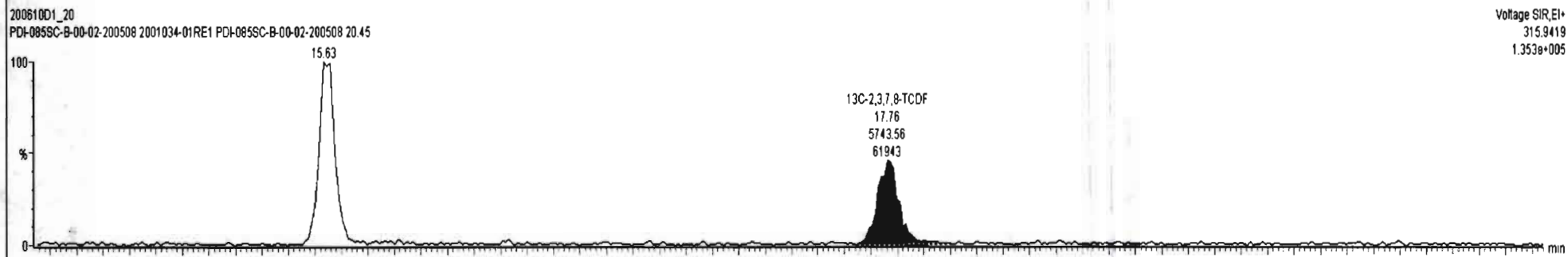
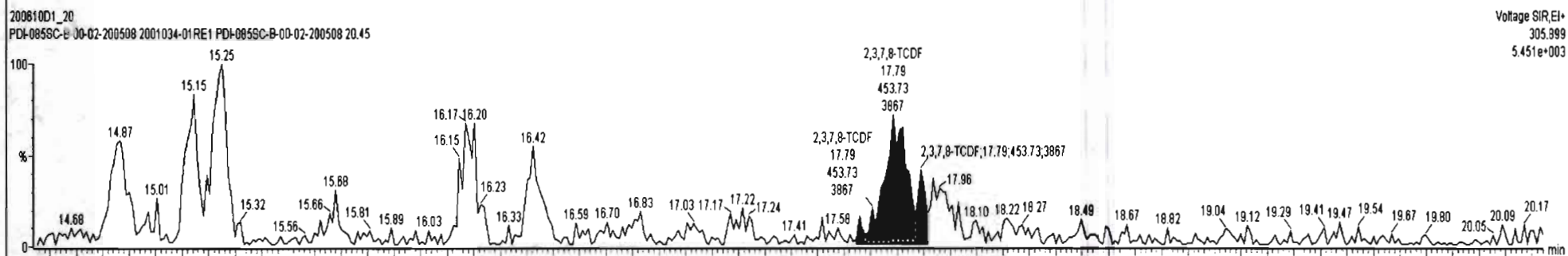
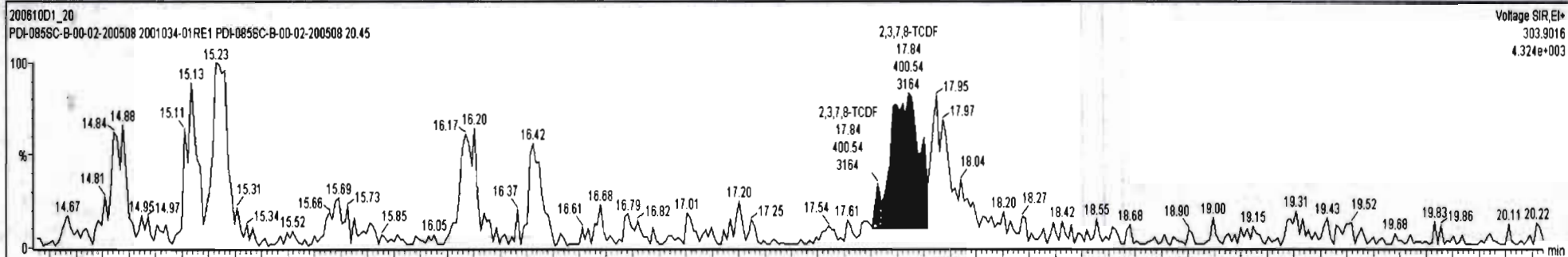


13C-2,3,7,8-TCDF



200610D1_20





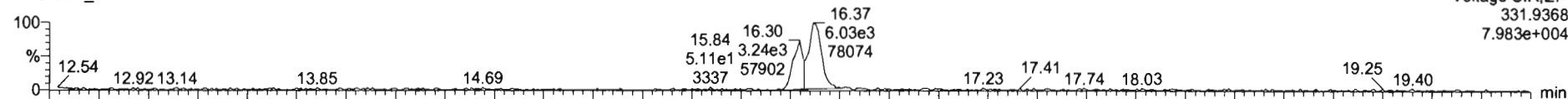
Dataset: U:\VG7.PRO\Results\200610D1\200610D1_20.qld

Last Altered: Wednesday, June 10, 2020 23:36:01 Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:06:05 Pacific Daylight Time

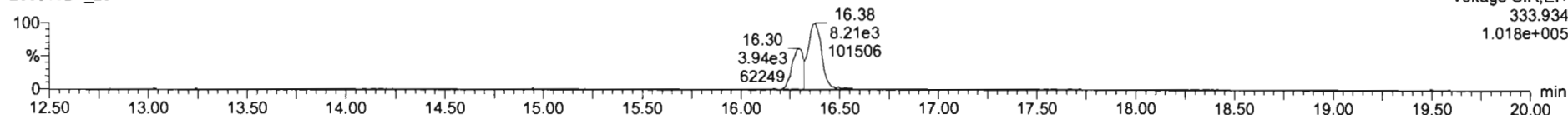
Name: 200610D1_20, Date: 10-Jun-2020, Time: 21:46:00, ID: 2001034-01RE1 PDI-085SC-B-00-02-200508 20.45, Description: PDI-085SC-B-00-02-200508

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

200610D1_20

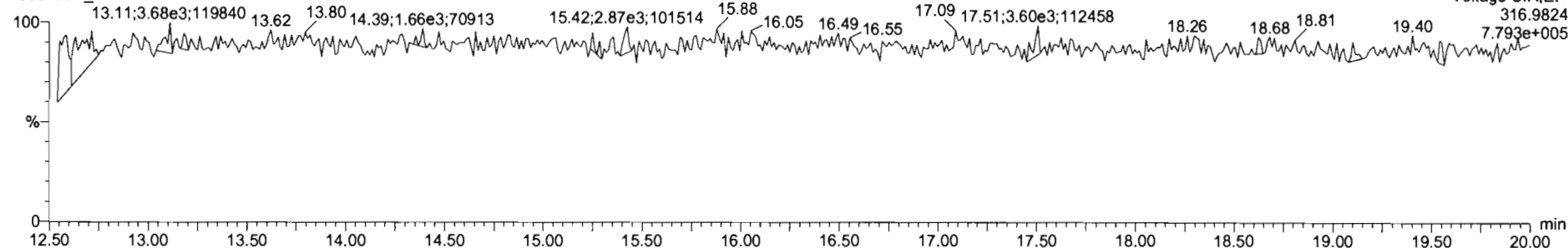


200610D1_20



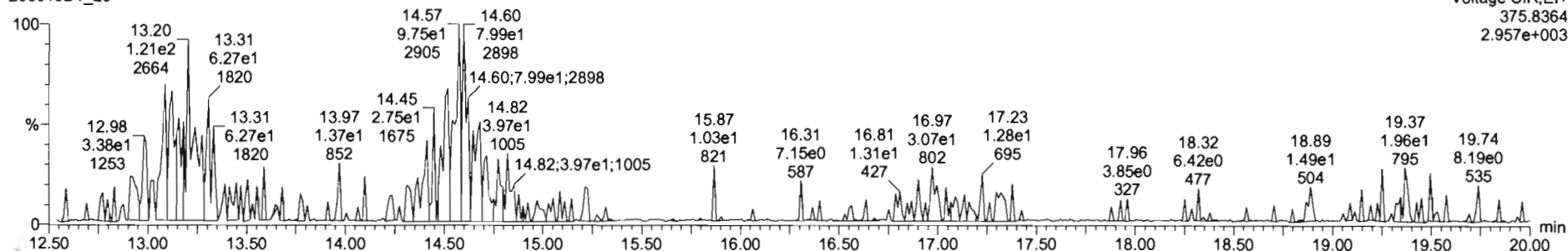
PFK1

200610D1_20



DPE1

200610D1_20



Dataset: U:\VG7.PRO\Results\200610D1\200610D1_21.qld

Last Altered: Thursday, June 11, 2020 10:22:54 Pacific Daylight Time

Printed: Thursday, June 11, 2020 10:23:35 Pacific Daylight Time

DB 6/11/20 C-704/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200610D1_21, Date: 10-Jun-2020, Time: 22:17:43, ID: 2001034-02RE1 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDF	1.04e3	0.83	NO	0.982	10.036 ✓	17.794	17.79	1.000	1.001	16.399		2.92	16.4
2	13C-2,3,7,8-TCDF	1.29e4	0.77	NO	1.08	10.036	17.817	17.77	1.133	1.135	126.11	63.3	5.40	
3	13C-1,2,3,4-TCDF	1.88e4	0.82	NO	1.00	10.036	15.660	15.66	1.000	1.000	199.28	100	5.84	

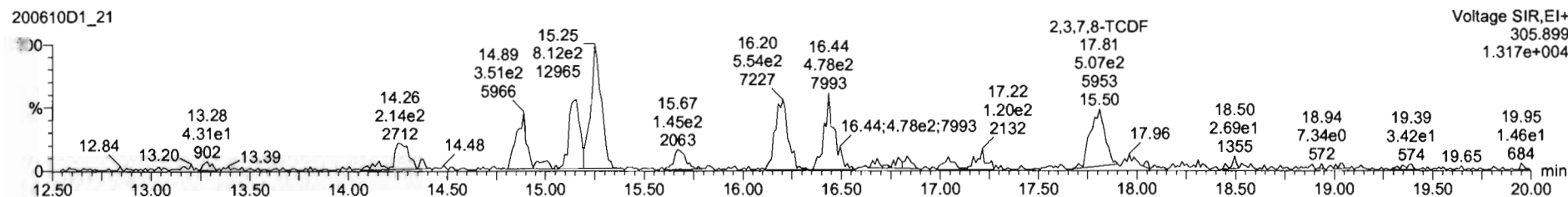
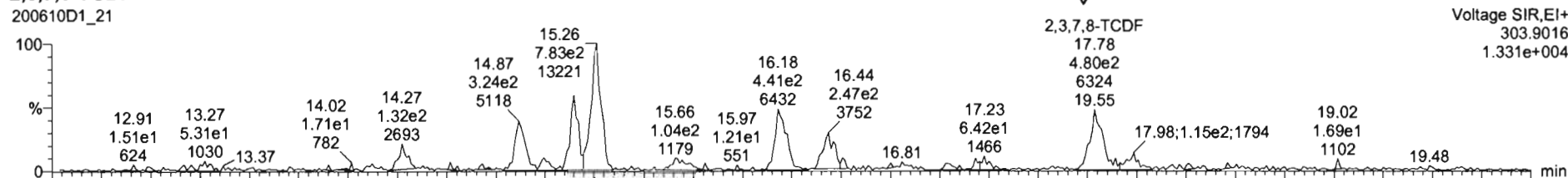
Dataset: U:\VG7.PRO\Results\200610D1\200610D1_21.qld

Last Altered: Wednesday, June 10, 2020 23:37:02 Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:22:10 Pacific Daylight Time

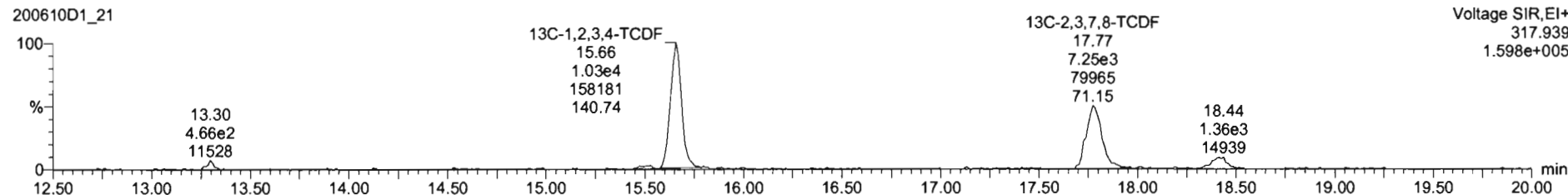
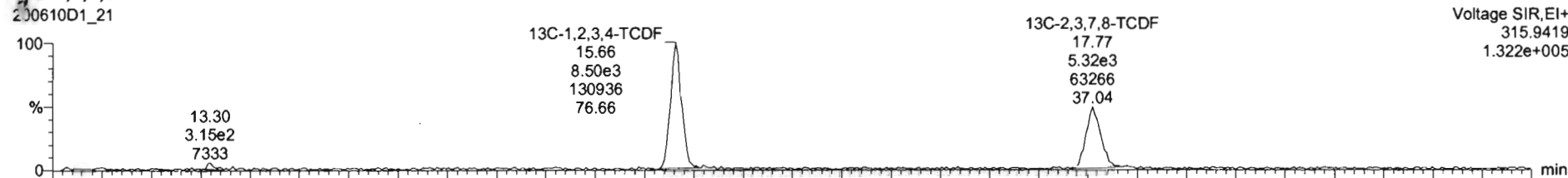
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200610D1_21, Date: 10-Jun-2020, Time: 22:17:43, ID: 2001034-02RE1 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

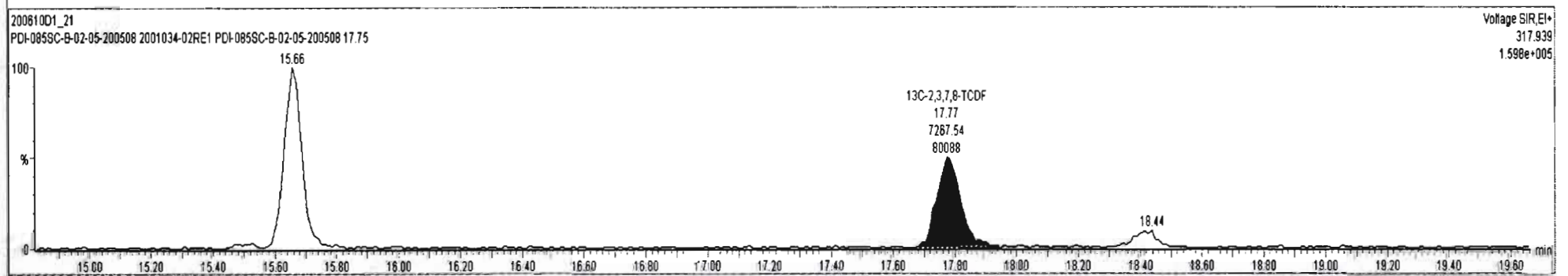
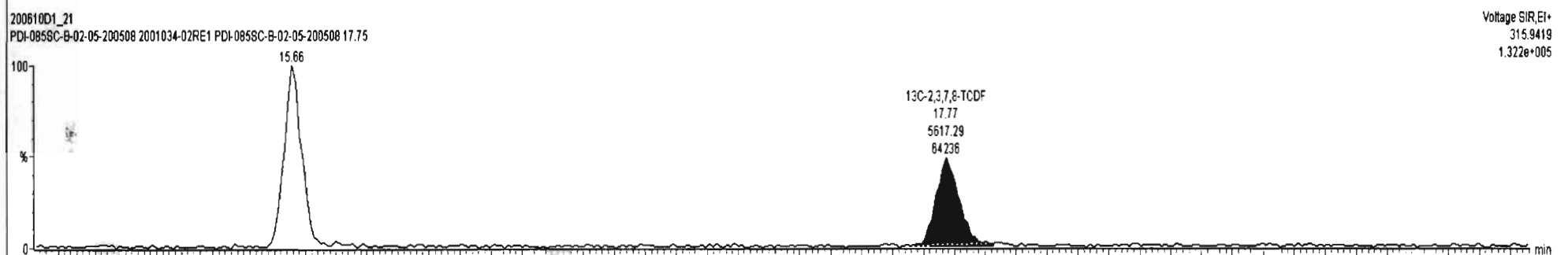
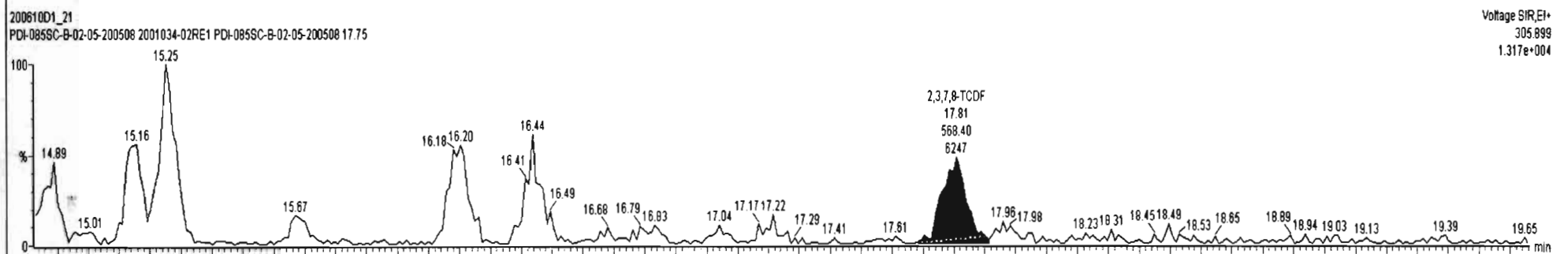
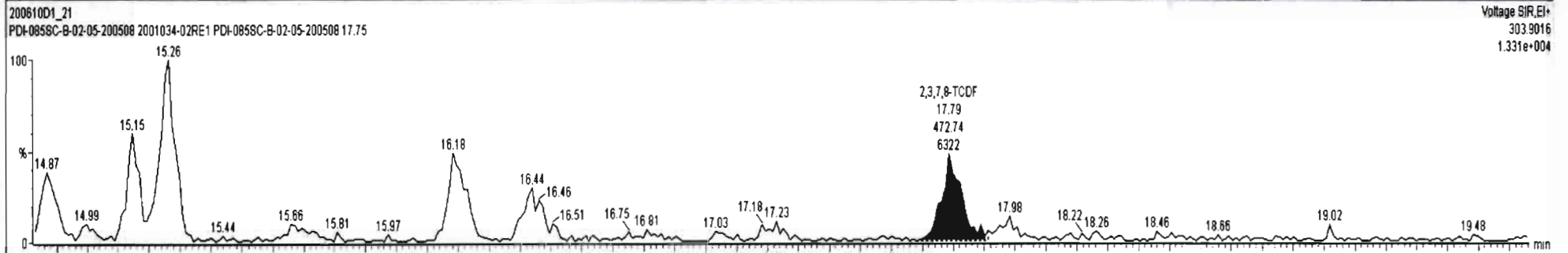
2,3,7,8-TCDF



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



200610D1_21 - 2001034-02RE1 PDI-085SC-B-02-05-200508 17.75 - PDI-085SC-B-02-05-200508



Dataset: U:\VG7.PRO\Results\200610D1\200610D1_21.qld

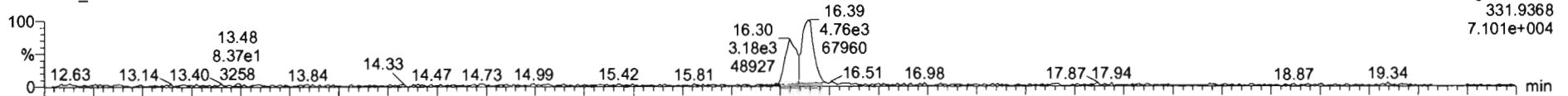
Last Altered: Wednesday, June 10, 2020 23:37:02 Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:22:10 Pacific Daylight Time

Name: 200610D1_21, Date: 10-Jun-2020, Time: 22:17:43, ID: 2001034-02RE1 PDI-085SC-B-02-05-200508 17.75, Description: PDI-085SC-B-02-05-200508

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

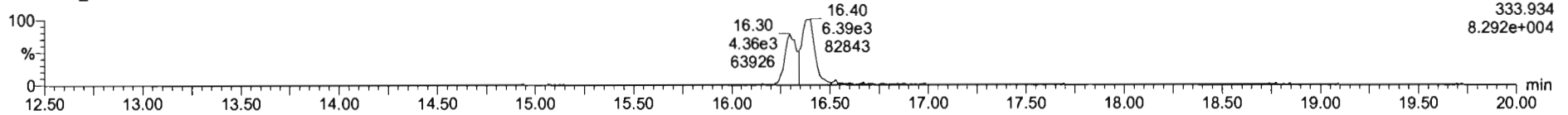
200610D1_21

Voltage SIR,EI+
331.9368
7.101e+004



200610D1_21

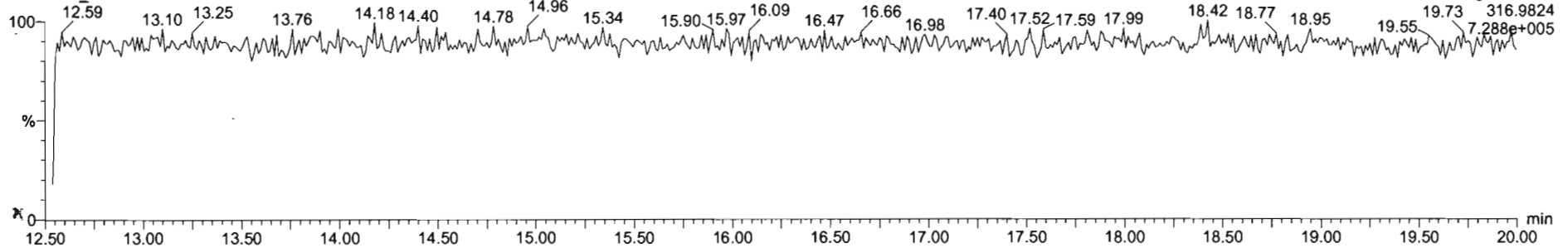
Voltage SIR,EI+
333.934
8.292e+004



PFK1

200610D1_21

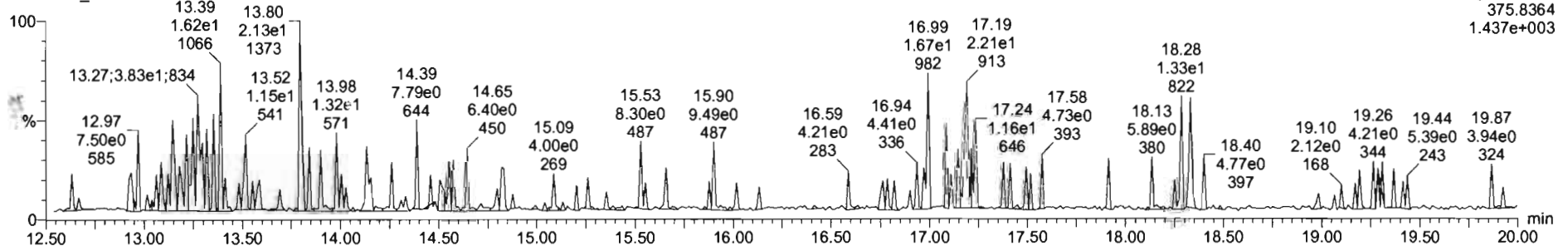
Voltage SIR,EI+
316.9824
7.288e+005



DPE1

200610D1_21

Voltage SIR,EI+
375.8364
1.437e+003



Dataset: U:\VG7.PRO\Results\200610D1\200610D1_22.qld

Last Altered: Thursday, June 11, 2020 10:26:42 Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:28:45 Pacific Daylight Time

DB 6/11/20 *C706/12/2020*

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200610D1_22, Date: 10-Jun-2020, Time: 22:49:25, ID: 2001034-03RE1 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	4.84e2	0.66	NO	0.982	10.030	✓ 17.759	17.76	1.000	1.001	8.1073		3.15	8.11
2	2 13C-2,3,7,8-TCDF	1.21e4	0.86	NO	1.08	10.030	17.794	17.74	1.133	1.135	124.82	62.6	5.09	
3	3 13C-1,2,3,4-TCDF	1.79e4	0.80	NO	1.00	10.030	15.660	15.63	1.000	1.000	199.41	100	5.51	

76

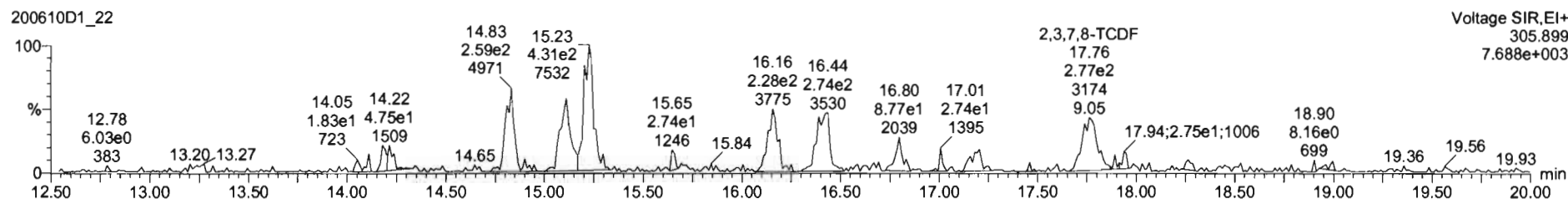
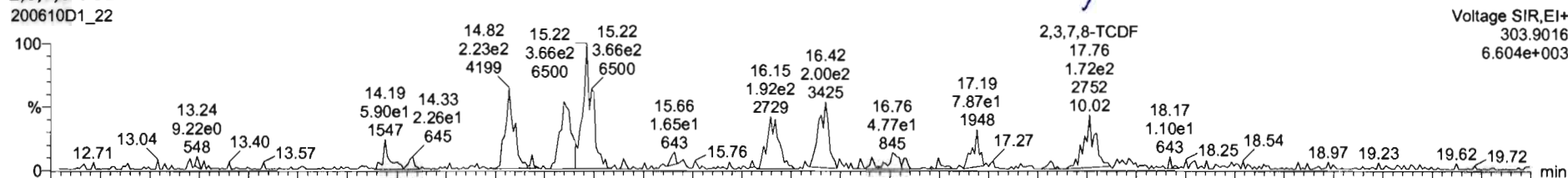
Dataset: U:\VG7.PRO\Results\200610D1\200610D1_22.qld

Last Altered: Wednesday, June 10, 2020 23:38:01 Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:24:21 Pacific Daylight Time

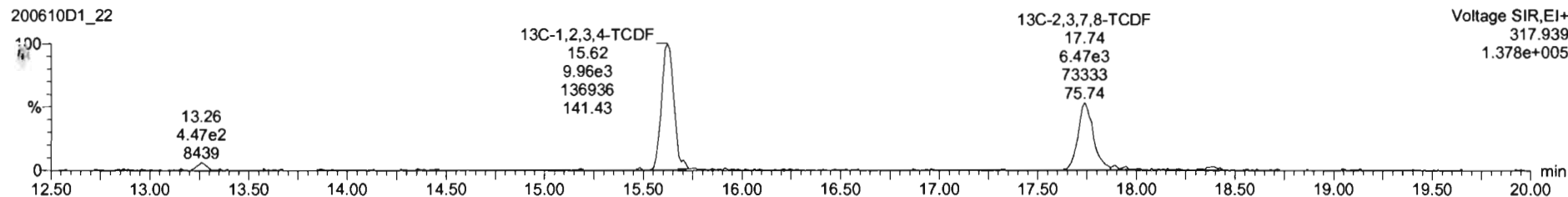
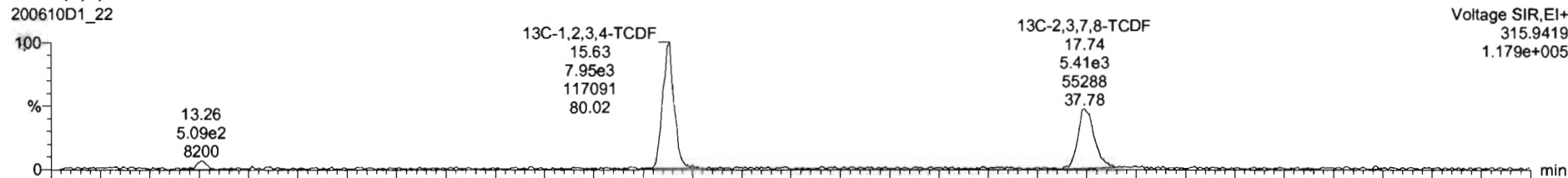
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\ids-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

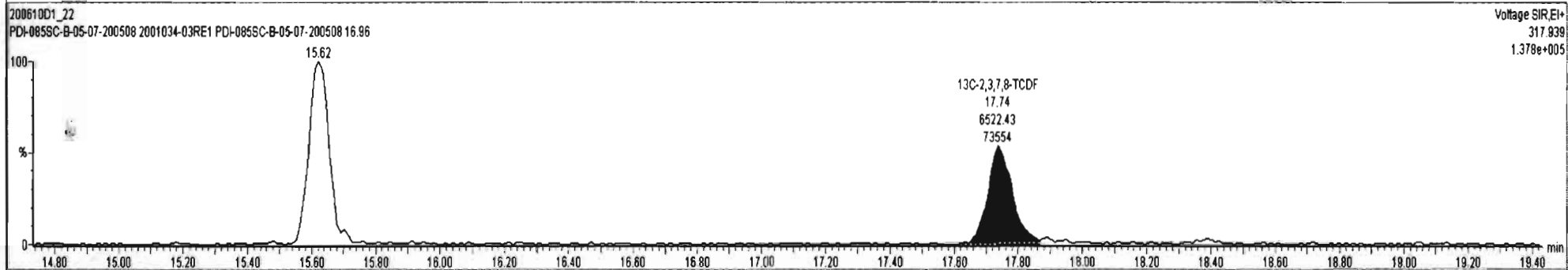
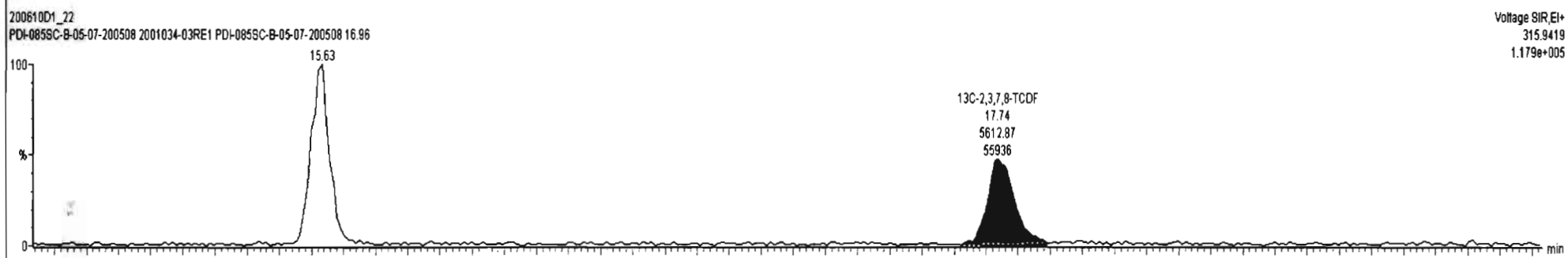
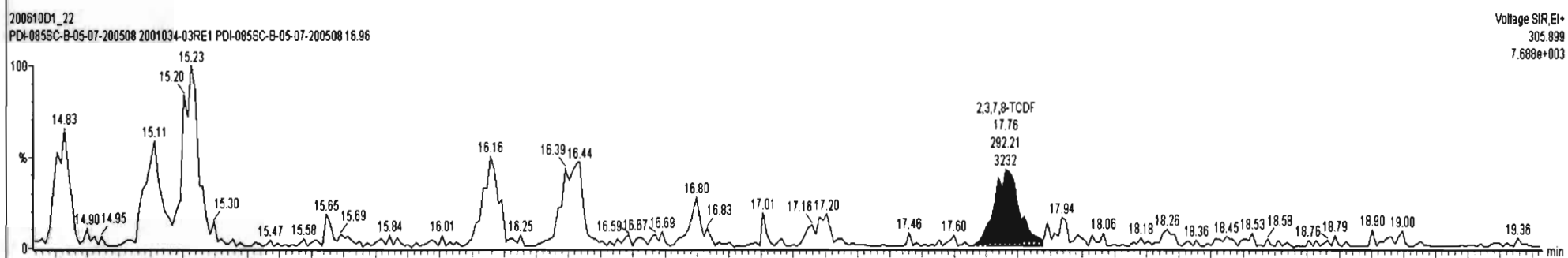
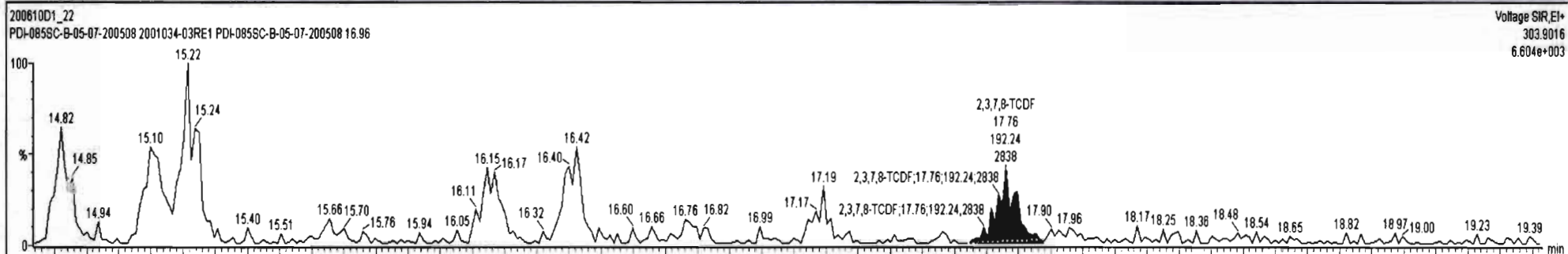
Name: 200610D1_22, Date: 10-Jun-2020, Time: 22:49:25, ID: 2001034-03RE1 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

2,3,7,8-TCDF



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





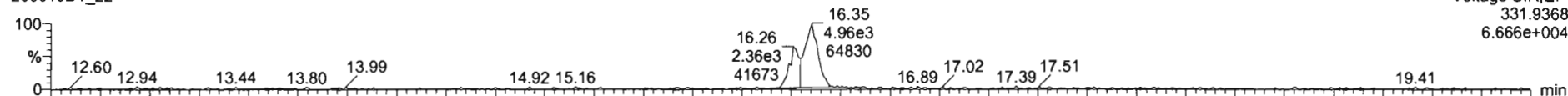
Dataset: U:\VG7.PRO\Results\200610D1\200610D1_22.qld

Last Altered: Wednesday, June 10, 2020 23:38:01 Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:24:21 Pacific Daylight Time

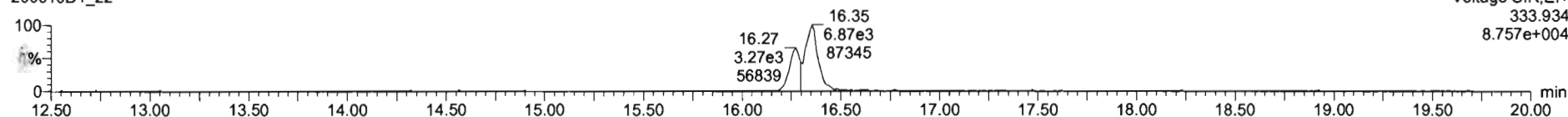
Name: 200610D1_22, Date: 10-Jun-2020, Time: 22:49:25, ID: 2001034-03RE1 PDI-085SC-B-05-07-200508 16.96, Description: PDI-085SC-B-05-07-200508

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

200610D1_22

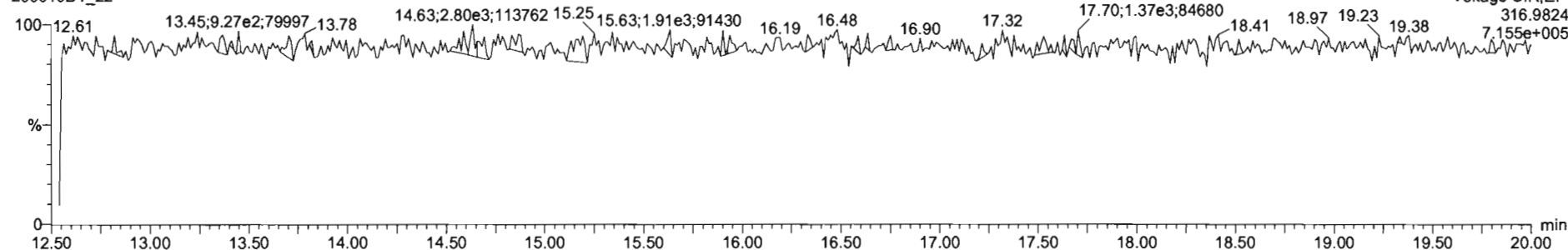


200610D1_22



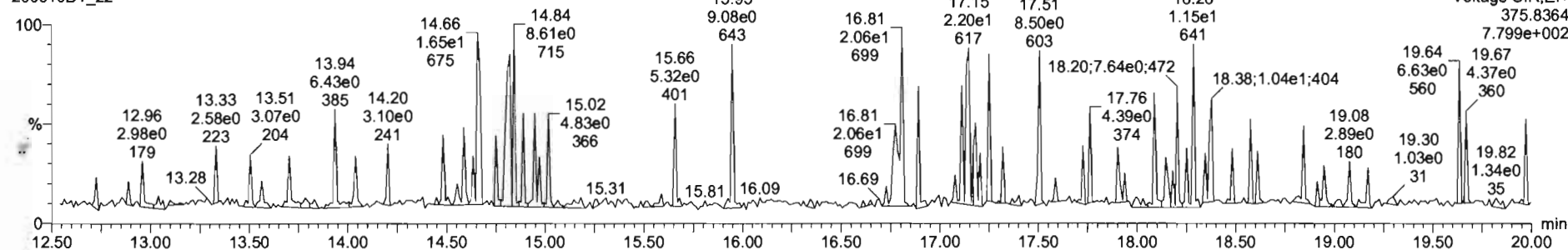
PFK1

200610D1_22



DPE1

200610D1_22



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20060821-1

Reviewed By: C7 06/09/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1614 1699 429 1613/1668/8280		
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox" value="NA"/>	
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
(ST-Year-Month-Day-VG ID)			- Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input type="checkbox" value="NA"/>	
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<u>GPB</u>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<u>GPB</u>	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\200608R1\200608R1-1.qld

Last Altered: Monday, June 08, 2020 12:32:14 Pacific Daylight Time
Printed: Monday, June 08, 2020 12:32:39 Pacific Daylight Time

GLB 06/08/2020

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

C7 06/09/2020

Name: 200608R1_1, Date: 08-Jun-2020, Time: 11:40:29, ID: ST200608R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred. RT	RT	PKT-Flag	Pred. RT	RT	Conc	Conc	NO
1	2,3,7,8-TCDD	6.16e4	7.12e5	0.75	NO	0.888	26.47	26.47	NO	1.001	1.001	9.7406	97.4	NO
2	1,2,3,7,8-PeCDD	2.20e5	4.96e5	0.61	NO	0.908	31.44	31.44	NO	1.001	1.000	48.853	97.7	NO
3	1,2,3,4,7,8-HxCDD	1.87e5	3.51e5	1.23	NO	1.03	34.81	34.81	NO	1.000	1.000	51.535	103	NO
4	1,2,3,6,7,8-HxCDD	2.03e5	4.59e5	1.19	NO	0.892	34.90	34.91	NO	1.000	1.000	49.661	99.3	NO
5	1,2,3,7,8,9-HxCDD	1.82e5	4.11e5	1.21	NO	0.887	35.20	35.20	NO	1.000	1.000	50.053	100	NO
6	1,2,3,4,6,7,8-HpCDD	1.34e5	3.05e5	1.02	NO	0.864	38.72	38.72	NO	1.000	1.000	50.827	102	NO
7	OCDD	3.02e5	6.48e5	0.87	NO	0.914	41.70	41.70	NO	1.000	1.000	101.85	102	NO
8	2,3,7,8-TCDF	7.24e4	9.78e5	0.72	NO	0.751	25.57	25.56	NO	1.001	1.001	9.8688	98.7	NO
9	1,2,3,7,8-PeCDF	3.57e5	7.86e5	1.54	NO	0.893	30.16	30.15	NO	1.001	1.001	50.881	102	NO
10	2,3,4,7,8-PeCDF	3.59e5	7.74e5	1.56	NO	0.935	31.15	31.13	NO	1.001	1.000	49.670	99.3	NO
11	1,2,3,4,7,8-HxCDF	2.27e5	4.97e5	1.23	NO	0.884	33.92	33.93	NO	1.000	1.000	51.714	103	NO
12	1,2,3,6,7,8-HxCDF	2.65e5	5.89e5	1.20	NO	0.889	34.05	34.06	NO	1.000	1.001	50.657	101	NO
13	2,3,4,6,7,8-HxCDF	2.46e5	5.09e5	1.20	NO	0.934	34.67	34.64	NO	1.001	1.000	51.753	104	NO
14	1,2,3,7,8,9-HxCDF	1.89e5	4.14e5	1.23	NO	0.871	35.54	35.56	NO	1.000	1.001	52.271	105	NO
15	1,2,3,4,6,7,8-HpCDF	1.81e5	3.97e5	1.04	NO	0.873	37.34	37.32	NO	1.001	1.000	52.143	104	NO
16	1,2,3,4,7,8,9-HpCDF	1.40e5	2.58e5	1.02	NO	1.01	39.27	39.27	NO	1.000	1.000	53.600	107	NO
17	OCDF	2.93e5	7.28e5	0.87	NO	0.806	41.89	41.90	NO	1.000	1.000	99.654	99.7	NO
18	13C-2,3,7,8-TCDD	7.12e5	5.98e5	0.79	NO	1.16	26.46	26.44	NO	1.026	1.026	103.07	103	NO
19	13C-1,2,3,7,8-PeCDD	4.96e5	5.98e5	0.63	NO	0.849	31.64	31.42	NO	1.227	1.219	97.797	97.8	NO
20	13C-1,2,3,4,7,8-HxCDD	3.51e5	5.06e5	1.27	NO	0.779	34.81	34.80	NO	1.014	1.014	89.015	89.0	NO
21	13C-1,2,3,6,7,8-HxCDD	4.59e5	5.06e5	1.27	NO	1.02	34.92	34.90	NO	1.017	1.017	89.281	89.3	NO
22	13C-1,2,3,7,8,9-HxCDD	4.11e5	5.06e5	1.21	NO	0.903	35.19	35.19	NO	1.025	1.025	89.950	90.0	NO
23	13C-1,2,3,4,6,7,8-HpCDD	3.05e5	5.06e5	0.98	NO	0.689	38.72	38.71	NO	1.128	1.128	87.604	87.6	NO
24	13C-OCDD	6.48e5	5.06e5	0.90	NO	0.652	41.74	41.70	NO	1.216	1.215	196.57	98.3	NO
25	13C-2,3,7,8-TCDF	9.78e5	9.35e5	0.80	NO	1.06	25.50	25.54	NO	0.989	0.991	98.769	98.8	NO
26	13C-1,2,3,7,8-PeCDF	7.86e5	9.35e5	1.59	NO	0.838	30.02	30.14	NO	1.165	1.169	100.30	100	NO
27	13C-2,3,4,7,8-PeCDF	7.74e5	9.35e5	1.59	NO	0.817	30.97	31.11	NO	1.202	1.207	101.39	101	NO
28	13C-1,2,3,4,7,8-HxCDF	4.97e5	5.06e5	0.51	NO	1.01	33.94	33.92	NO	0.989	0.988	97.597	97.6	NO
29	13C-1,2,3,6,7,8-HxCDF	5.89e5	5.06e5	0.52	NO	1.17	34.06	34.04	NO	0.992	0.992	99.844	99.8	NO
30	13C-2,3,4,6,7,8-HxCDF	5.09e5	5.06e5	0.50	NO	1.02	34.64	34.63	NO	1.009	1.009	98.538	98.5	NO
31	13C-1,2,3,7,8,9-HxCDF	4.14e5	5.06e5	0.51	NO	0.860	35.54	35.54	NO	1.035	1.035	95.296	95.3	NO

Dataset: U:\VG12.PRO\Results\200608R1\200608R1-1.qld

Last Altered: Monday, June 08, 2020 12:32:14 Pacific Daylight Time

Printed: Monday, June 08, 2020 12:32:39 Pacific Daylight Time

Name: 200608R1_1, Date: 08-Jun-2020, Time: 11:40:29, ID: ST200608R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

Name	Resp	IS Resp	RA	n/y	RR	PI	PI	NO	1.086	1.087	101.37	101	NO
32 13C-1,2,3,4,6,7,8-HpCDF	3.97e5	5.06e5	0.44	NO	0.774	37.28	37.31	NO	1.145	1.144	97.800	97.8	NO
33 13C-1,2,3,4,7,8,9-HpCDF	2.58e5	5.06e5	0.41	NO	0.521	39.31	39.27	NO	1.221	1.220	193.16	96.6	NO
34 13C-OCDF	7.28e5	5.06e5	0.90	NO	0.746	41.91	41.89	NO	1.028	1.027	10.567	106	NO
35 37Cl-2,3,7,8-TCDD	6.55e4	5.98e5			1.04	26.49	26.47	NO	1.000	1.000	100.00	100	NO
36 13C-1,2,3,4-TCDD	5.98e5	5.98e5	0.79	NO	1.00	25.89	25.78	NO	1.000	1.000	100.00	100	NO
37 13C-1,2,3,4-TCDF	9.35e5	9.35e5	0.79	NO	1.00	24.36	24.09	NO	1.000	1.000	100.00	100	NO
38 13C-1,2,3,4,6,9-HxCDF	5.06e5	5.06e5	0.52	NO	1.00	34.42	34.33	NO	1.000	1.000	100.00	100	YES <i>OK</i>

Dataset: Untitled

Last Altered: Tuesday, June 09, 2020 07:19:17 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 07:19:31 Pacific Daylight Time

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

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

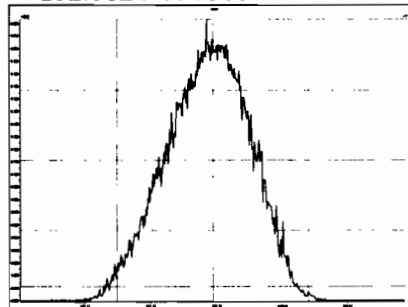
Compound name: 2,3,7,8-TCDD

Sample Name	ID	Acq. Date	Acq. Time
200608R1_1	ST200608R1_1 1613 CS3 19L2305	08-Jun-20	11:40:29
200608R1_2	B0E0150-BS1 OPR 10	08-Jun-20	12:28:37
200608R1_3	SOLVENT BLANK	08-Jun-20	13:16:21
200608R1_4	B0E0150-BLK1 Method Blank 10	08-Jun-20	14:02:35
200608R1_5	HRMS-200605-9 Sand Purity QC Lot A	08-Jun-20	14:49:42
200608R1_6	HRMS-200605-10 Sand Purity QC Lot B	08-Jun-20	15:35:55
200608R1_7	2001037-03 PDI-094SC-B-00-02-200507 17	08-Jun-20	16:22:09
200608R1_8	2001037-04 PDI-094SC-B-02-05-200507 15.8	08-Jun-20	17:08:21
200608R1_9	2001037-05 PDI-094SC-B-05-07-200507 14.45	08-Jun-20	17:54:32
200608R1_10	2001037-06 PDI-096SC-B-00-02-200507 16.66	08-Jun-20	18:40:45
200608R1_11	2001037-07 PDI-096SC-B-02-05-200507 15.98	08-Jun-20	19:26:57
200608R1_12	2001037-08 PDI-096SC-B-05-07-200507 15.69	08-Jun-20	20:13:08
200608R1_13	2001037-09 PDI-096SG-00-01-200507 15.68	08-Jun-20	20:59:21
200608R1_14	2001037-10 PDI-098SC-B-00-02-200507 16.59	08-Jun-20	21:45:31
200608R1_15	2001037-11 PDI-098SC-B-02-05-200507 16.57	08-Jun-20	22:31:43
200608R1_16	B0E0150-DUP1 Duplicate 16.67	08-Jun-20	23:17:55

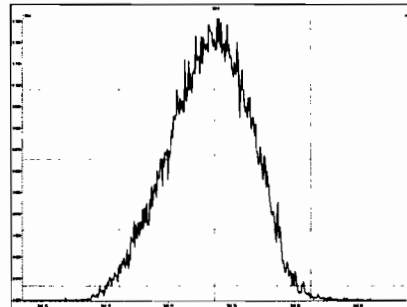
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, June 08, 2020 11:35:08 Pacific Daylight Time

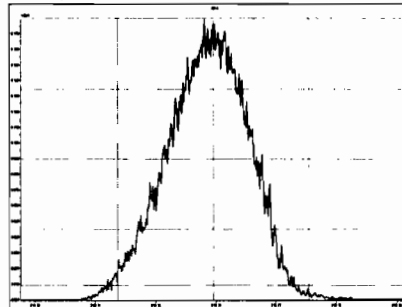
M 292.9824 R 10161



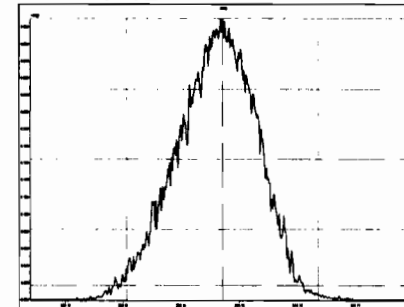
M 304.9824 R 10082



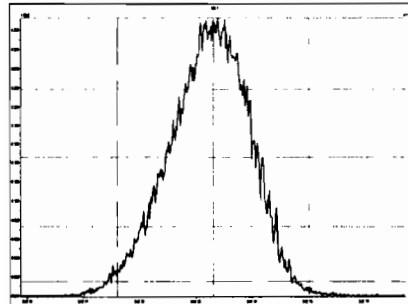
M 318.9792 R 10416



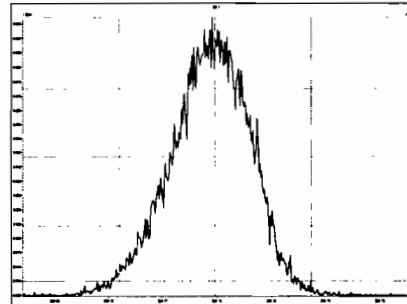
M 330.9792 R 10506



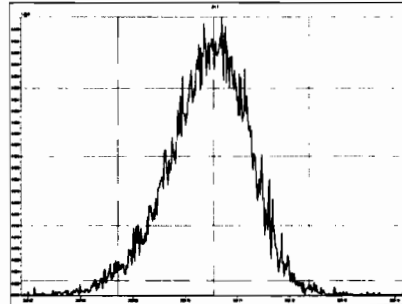
M 342.9792 R 10684



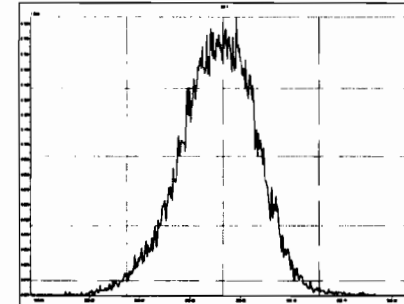
M 354.9792 R 10641



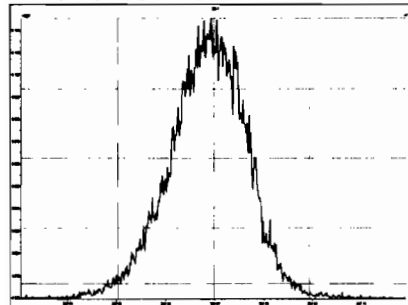
M 366.9792 R 10200



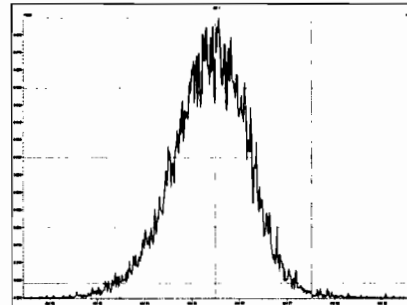
M 380.9760 R 10507



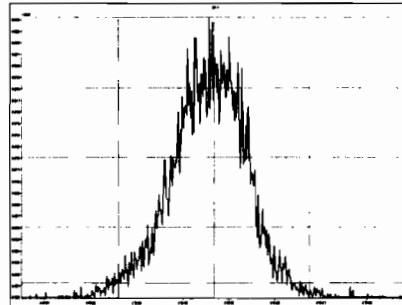
M 392.9760 R 10727



M 404.9760 R 11110



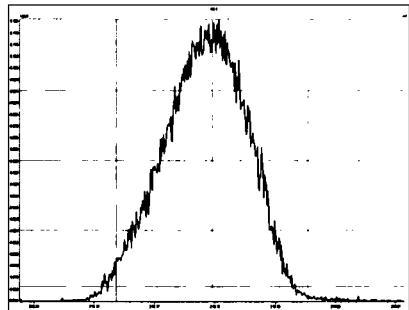
M 416.9760 R 10777



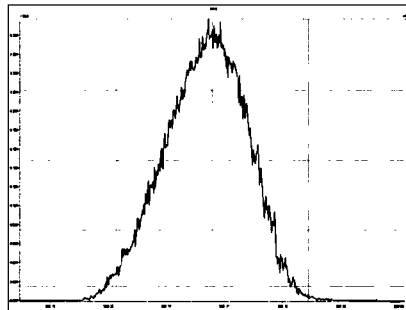
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, June 08, 2020 11:35:37 Pacific Daylight Time

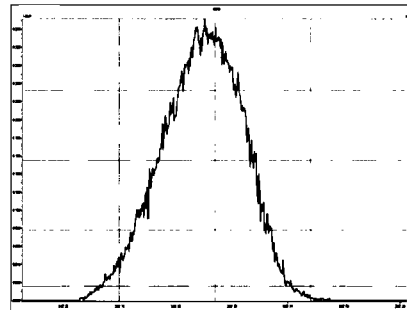
M 318.9792 R 10417



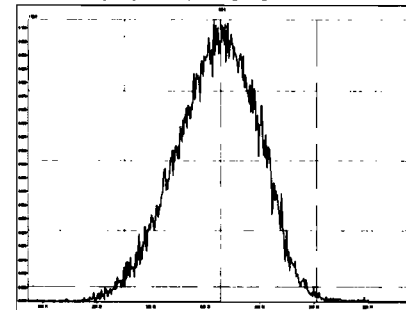
M 330.9792 R 10202



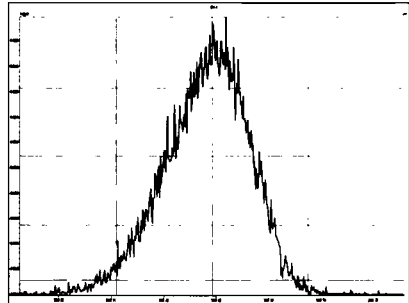
M 342.9792 R 10122



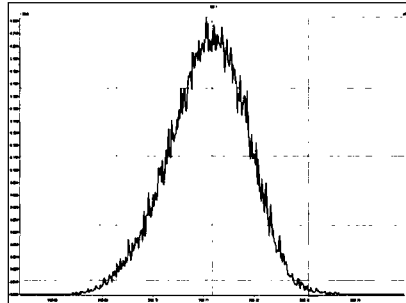
M 354.9792 R 10079



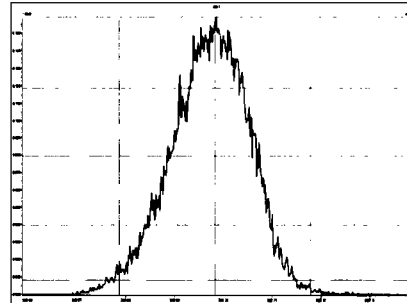
M 366.9792 R 10201



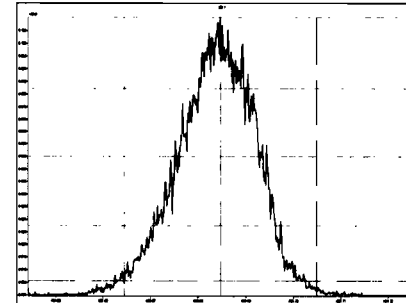
M 380.9760 R 10548



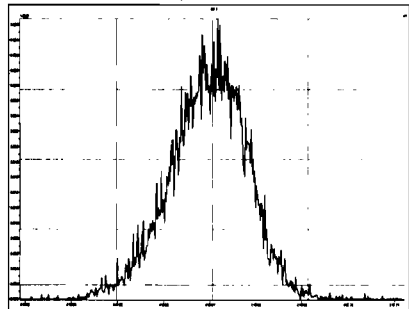
M 392.9760 R 10506



M 404.9760 R 10593



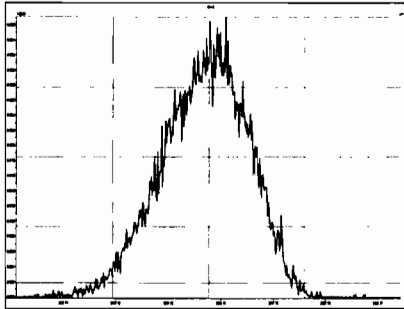
M 416.9760 R 10728



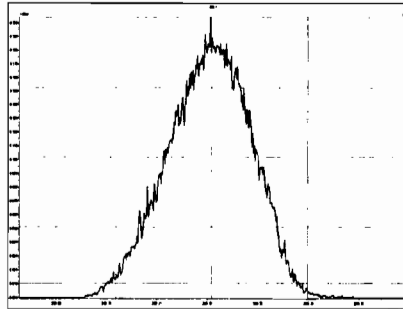
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, June 08, 2020 11:37:02 Pacific Daylight Time

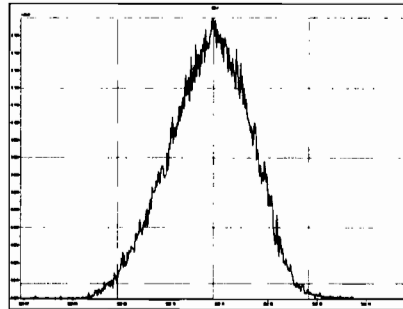
M 366.9792 R 10332



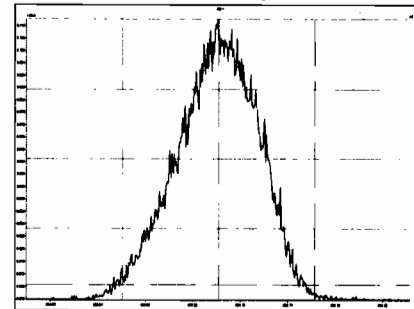
M 380.9760 R 10000



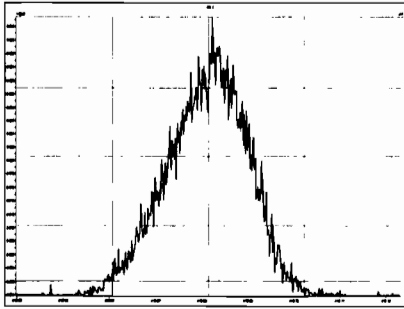
M 392.9760 R 10591



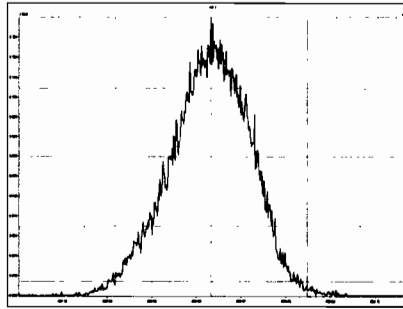
M 404.9760 R 10726



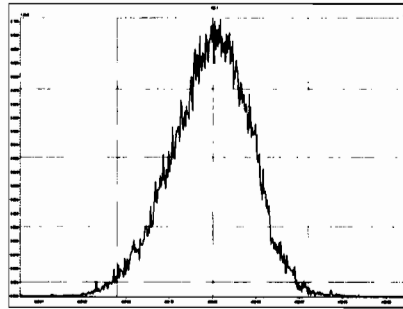
M 416.9760 R 10203



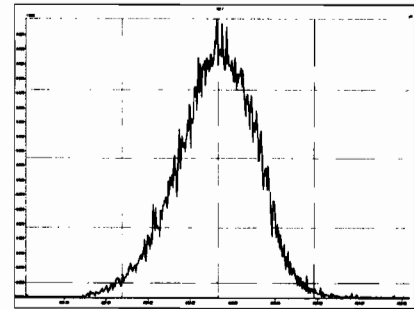
M 430.9728 R 10594



M 442.9728 R 10638



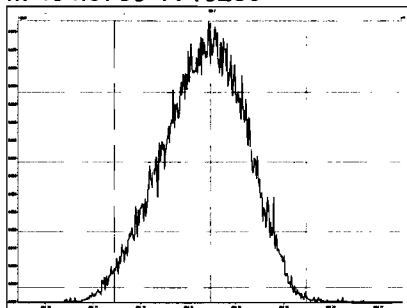
M 454.9728 R 10918



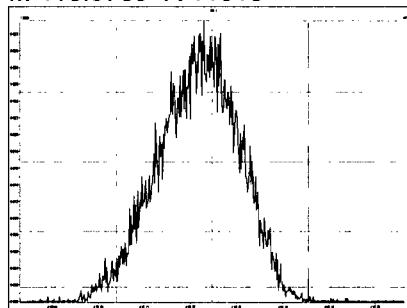
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, June 08, 2020 11:37:25 Pacific Daylight Time

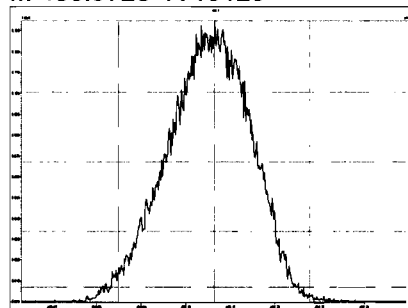
M 404.9760 R 10285



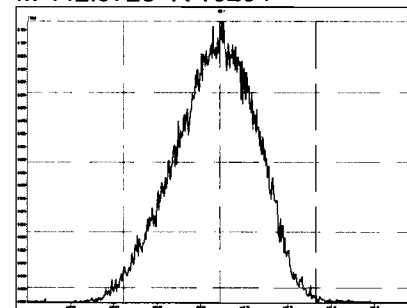
M 416.9760 R 11013



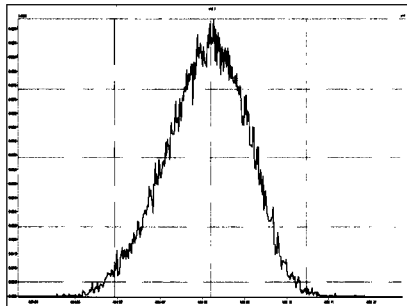
M 430.9728 R 10120



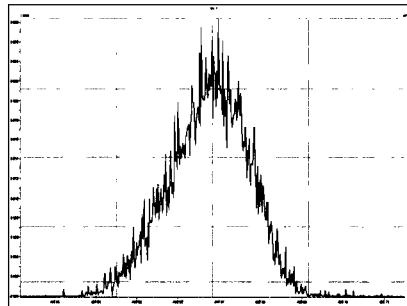
M 442.9728 R 10204



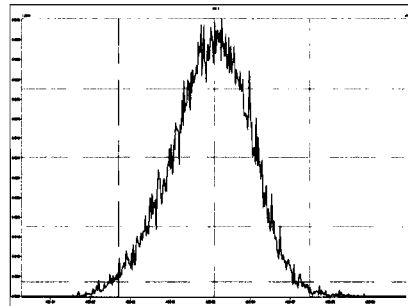
M 454.9728 R 10039



M 466.9728 R 10914



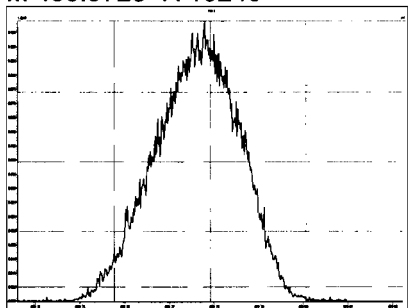
M 480.9696 R 10683



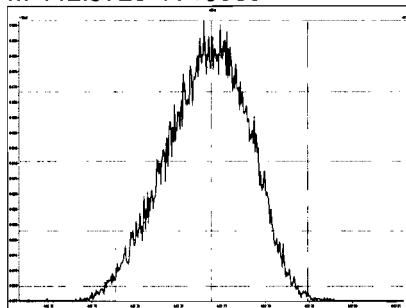
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, June 08, 2020 11:37:49 Pacific Daylight Time

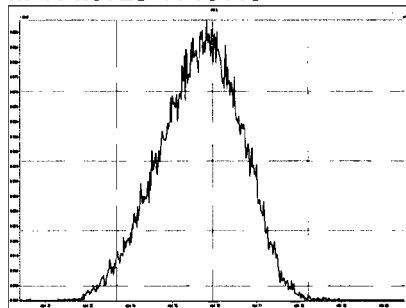
M 430.9728 R 10246



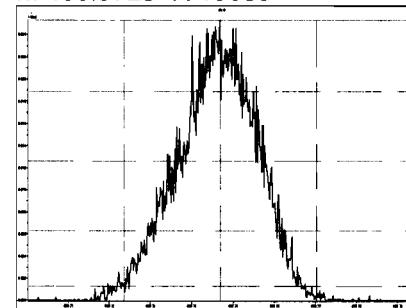
M 442.9728 R 10083



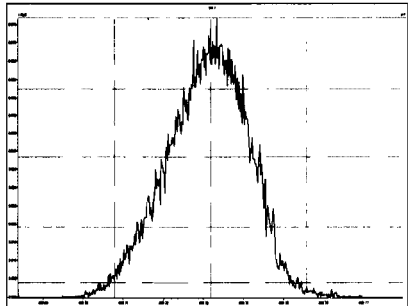
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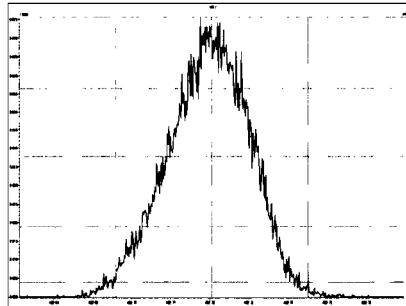
M 466.9728 R 10683



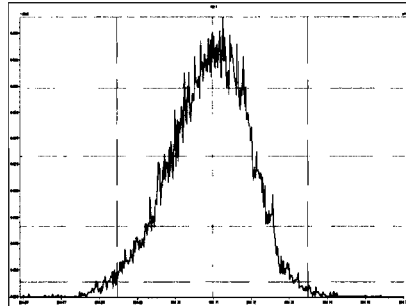
M 480.9696 R 10550



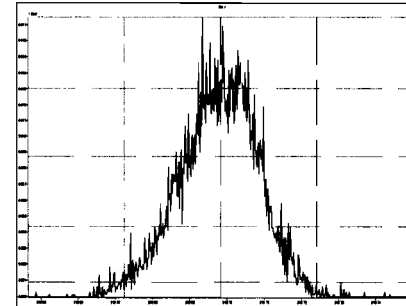
M 492.9696 R 10638



M 504.9696 R 10774



M 516.9697 R 11111



Dataset: Untitled

Last Altered: Monday, June 08, 2020 12:27:48 Pacific Daylight Time

Printed: Monday, June 08, 2020 12:29:33 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200608R1_1, Date: 08-Jun-2020, Time: 11:40:29, ID: ST200608R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.41
2	1,2,8,9-TCDD (Last)	27.43
3	1,2,4,7,9-PeCDD (First)	29.21
4	1,2,3,8,9-PeCDD (Last)	31.82
5	1,2,4,6,7,9-HxCDD (First)	33.30
6	1,2,3,7,8,9-HxCDD (Last)	35.20
7	1,2,3,4,6,7,9-HpCDD (First)	37.71
8	1,2,3,4,6,7,8-HpCDD (Last)	38.72
9	1,3,6,8-TCDF (First)	20.29
10	1,2,8,9-TCDF (Last)	27.58
11	1,3,4,6,8-PeCDF (First)	27.53
12	1,2,3,8,9-PeCDF (Last)	32.08
13	1,2,3,4,6,8-HxCDF (First)	32.76
14	1,2,3,7,8,9-HxCDF (Last)	35.56
15	1,2,3,4,6,7,8-HpCDF (First)	37.32
16	1,2,3,4,7,8,9-HpCDF (Last)	39.27

Dataset: Untitled

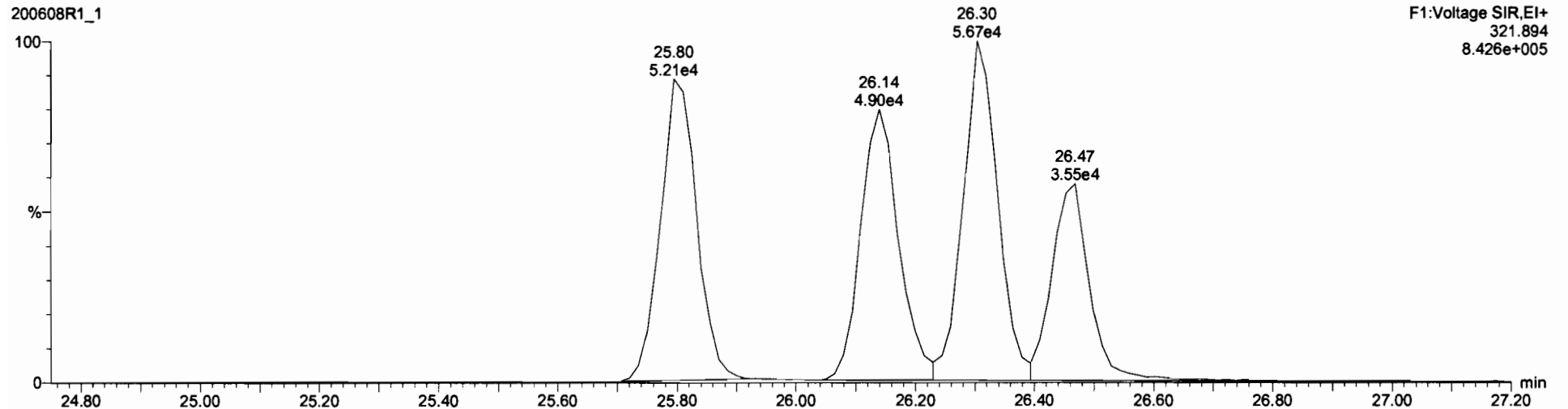
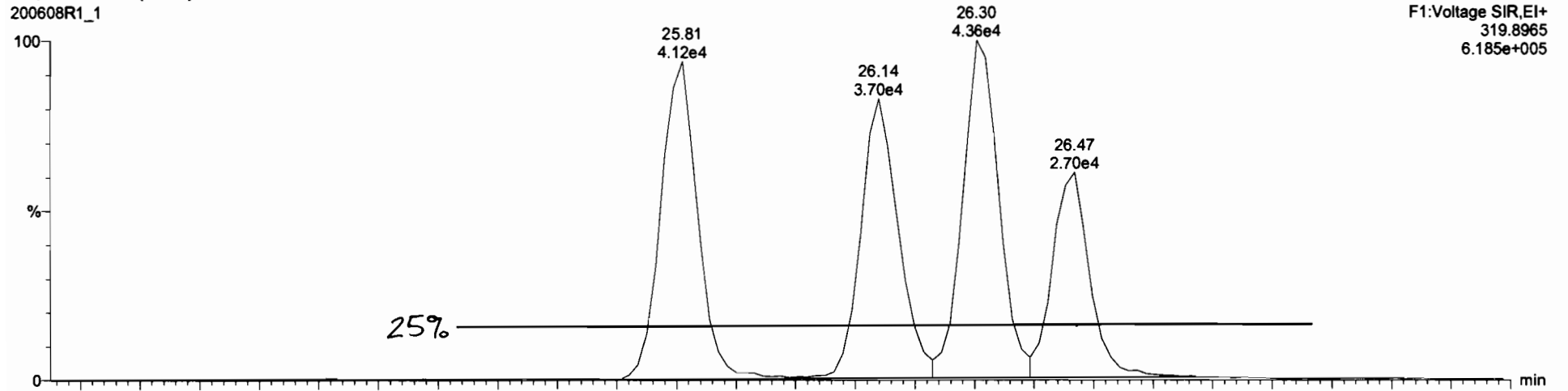
Last Altered: Monday, June 08, 2020 12:27:48 Pacific Daylight Time
Printed: Monday, June 08, 2020 12:29:33 Pacific Daylight Time

GPB 06/08/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200608R1_1, Date: 08-Jun-2020, Time: 11:40:29, ID: ST200608R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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



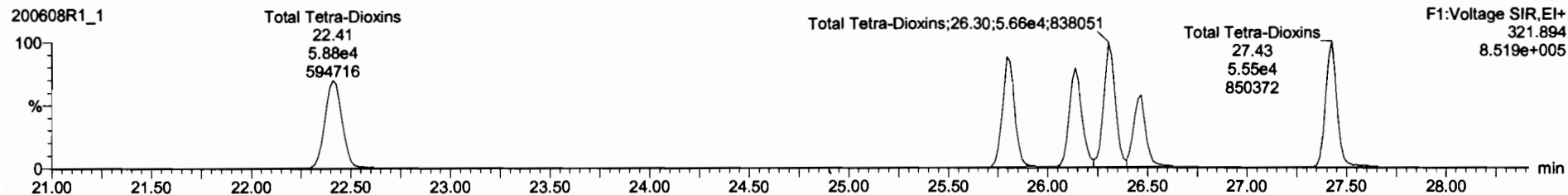
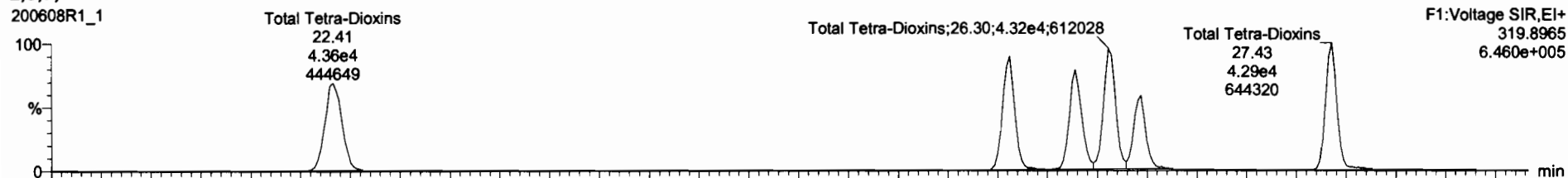
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Last Altered: Monday, June 08, 2020 12:30:35 Pacific Daylight Time
Printed: Monday, June 08, 2020 12:30:38 Pacific Daylight Time

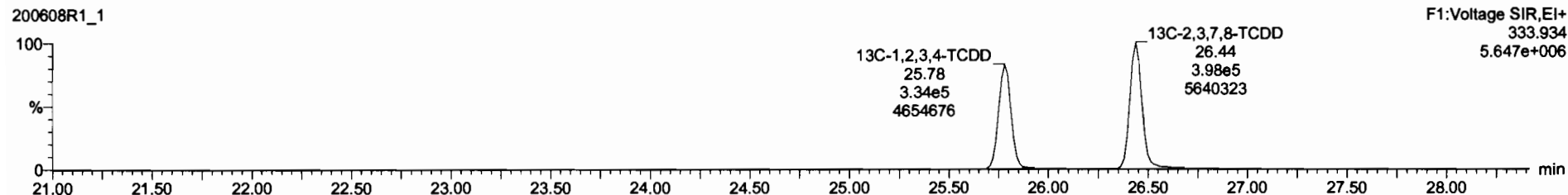
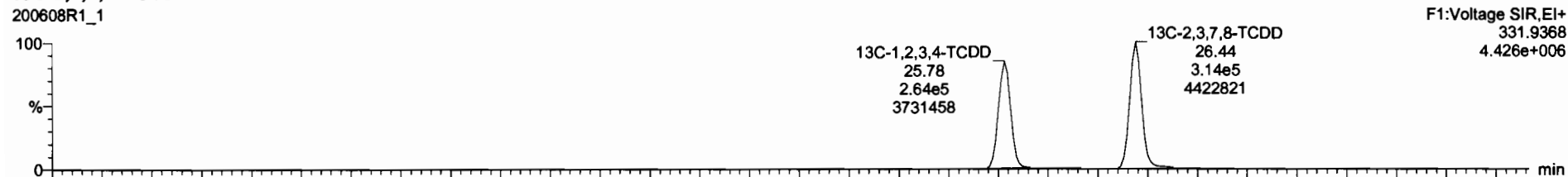
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Name: 200608R1_1, Date: 08-Jun-2020, Time: 11:40:29, ID: ST200608R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



Dataset: Untitled

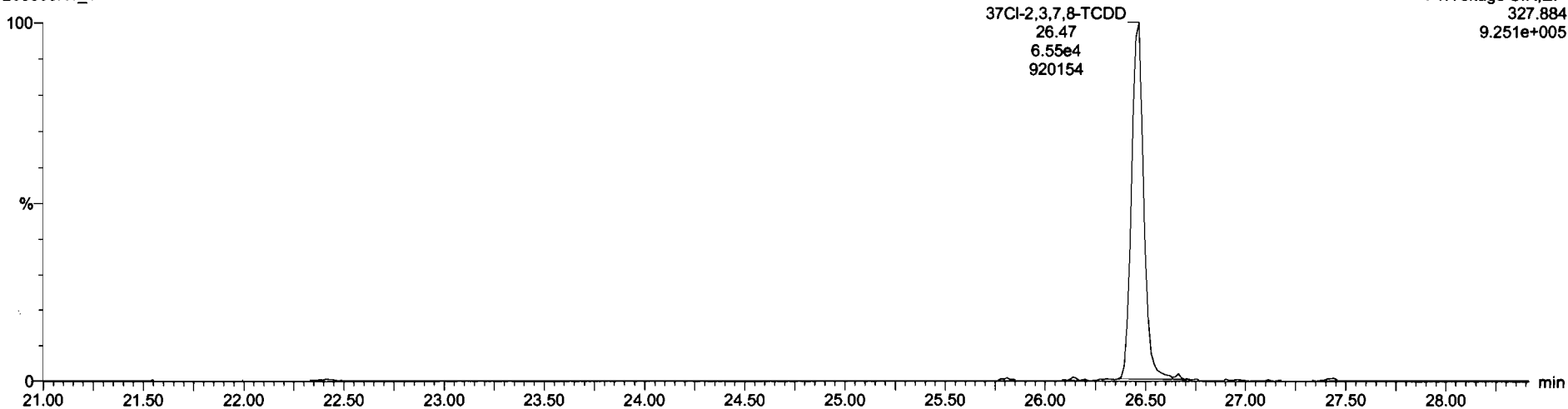
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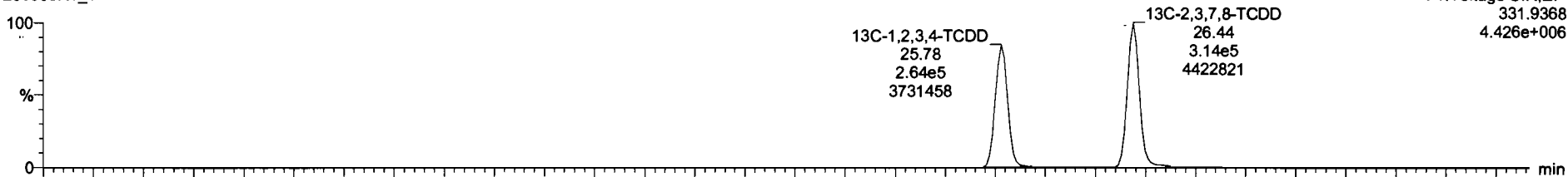
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200608R1_1

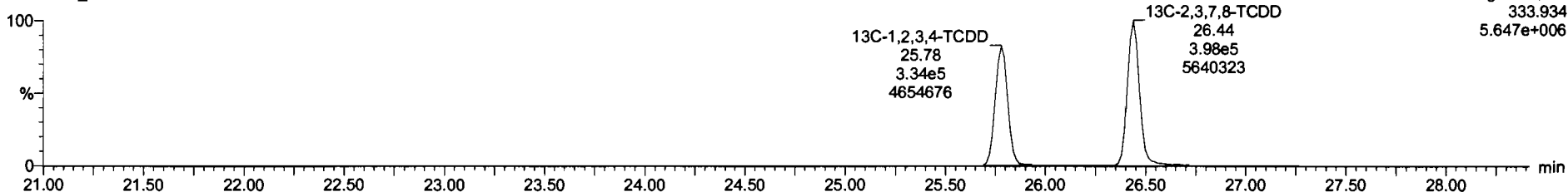


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200608R1_1



200608R1_1



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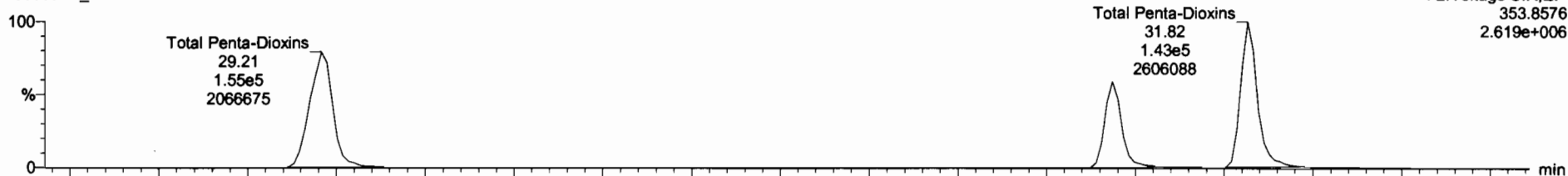
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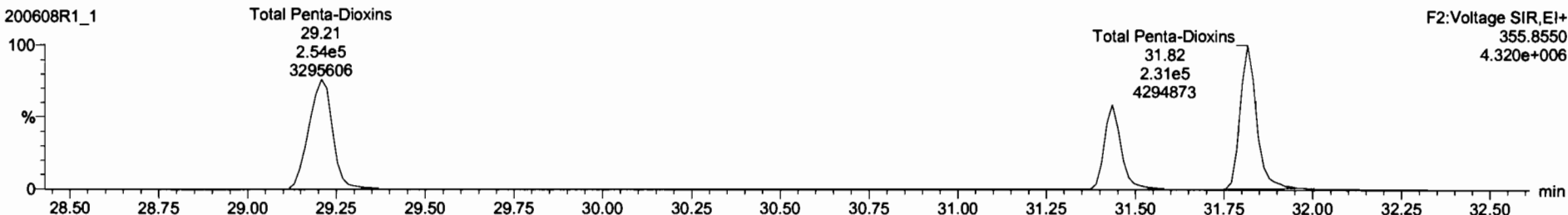
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1,2,3,7,8-PeCDD

200608R1_1

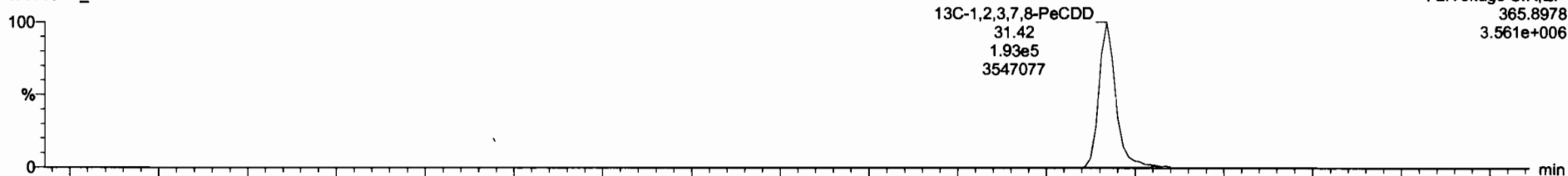


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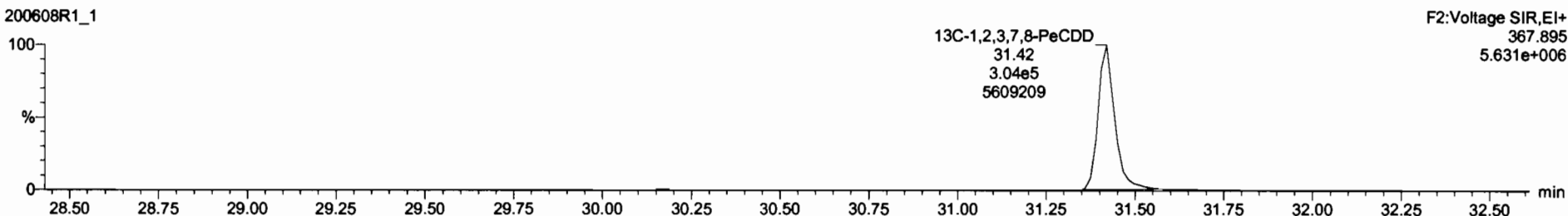


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200608R1_1



200608R1_1



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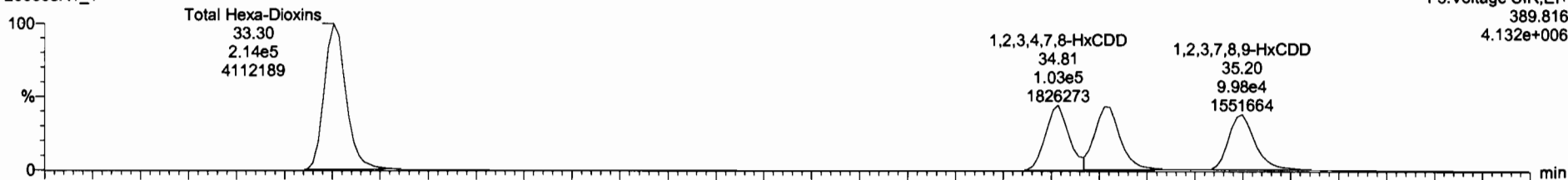
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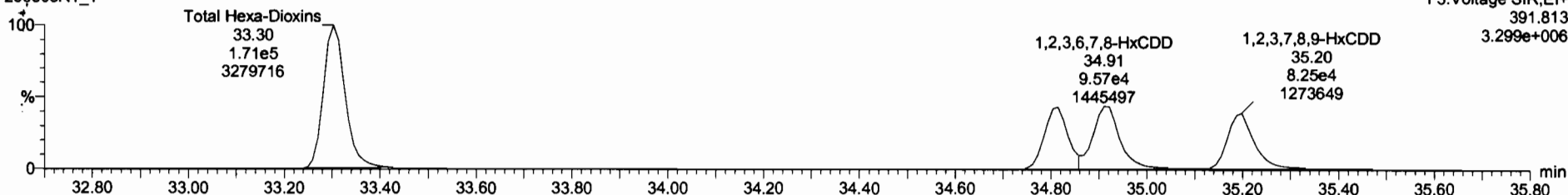
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1,2,3,4,7,8-HxCDD

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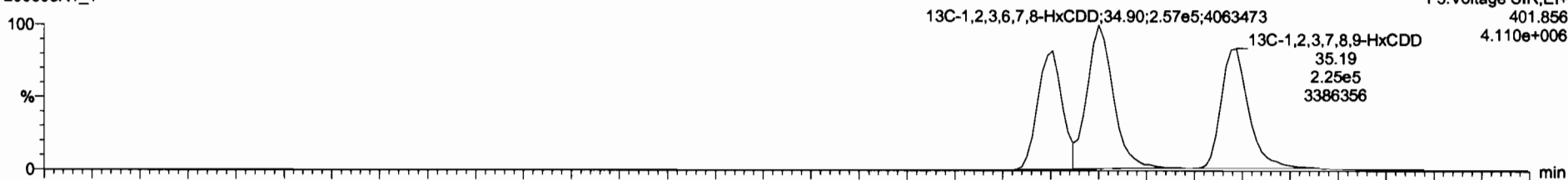


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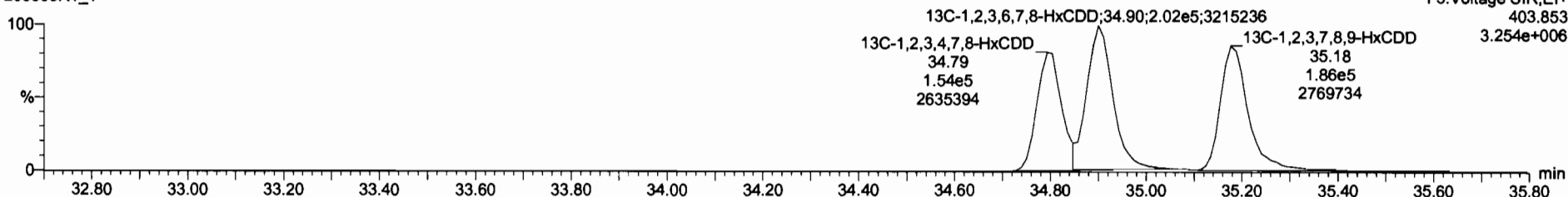


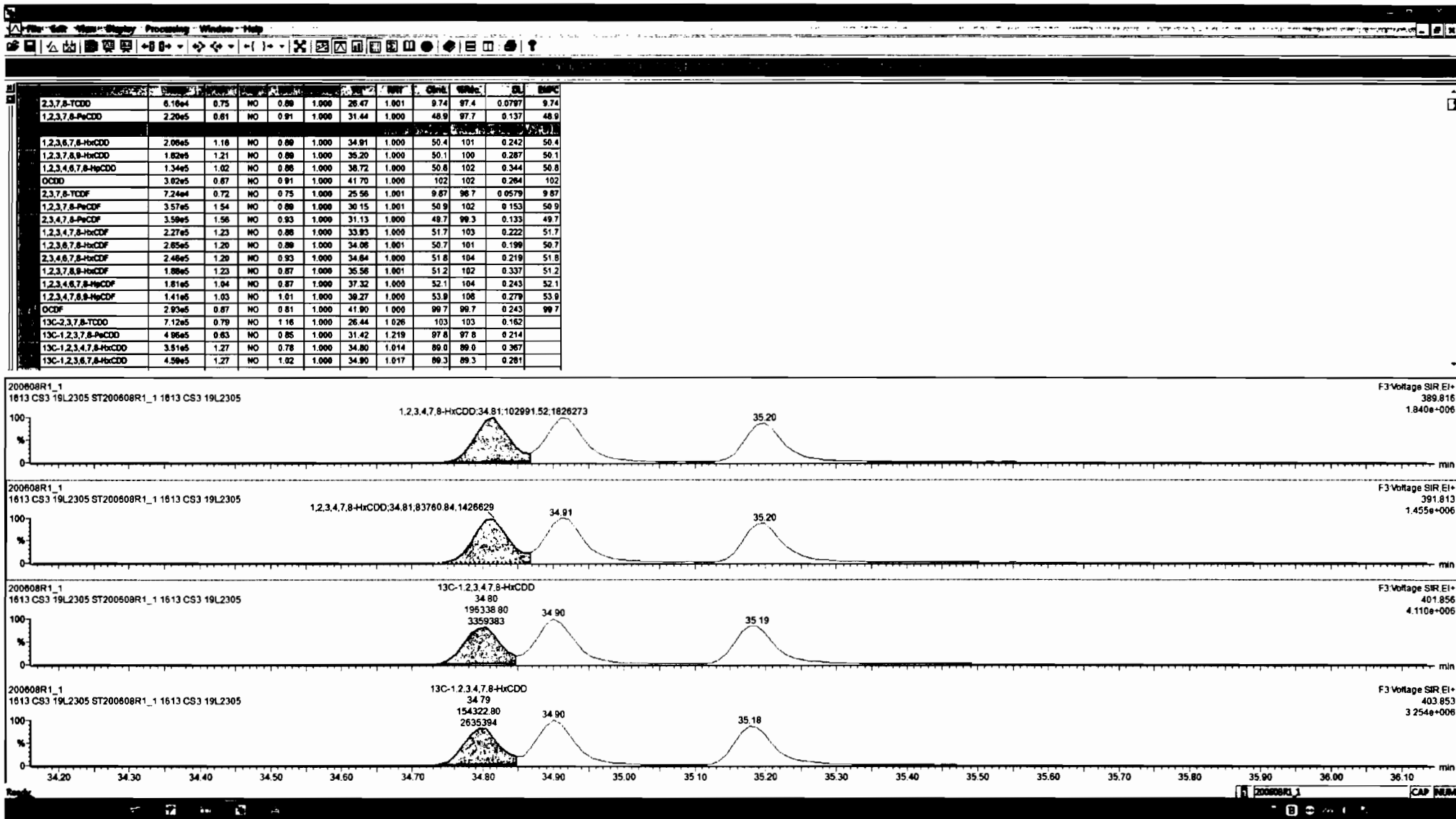
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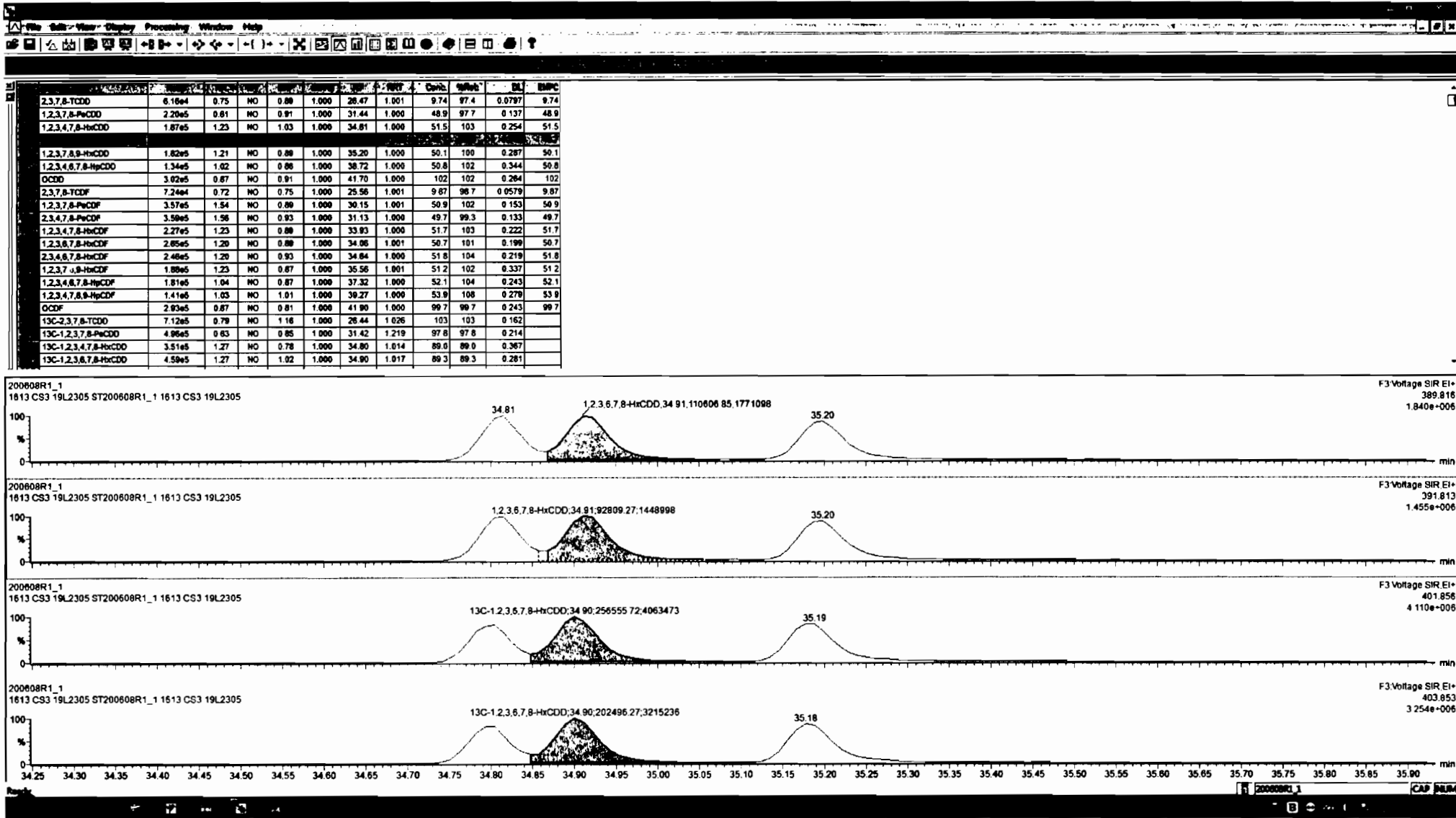
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200608R1_1







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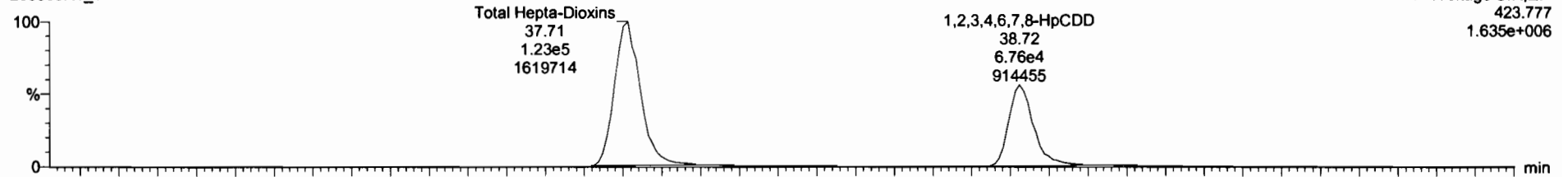
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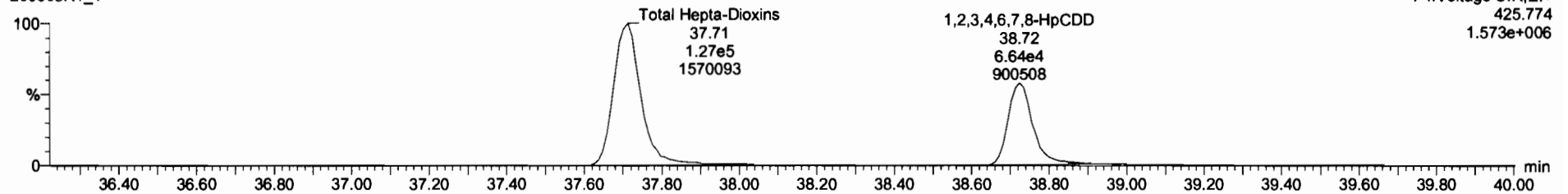
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1,2,3,4,6,7,8-HpCDD

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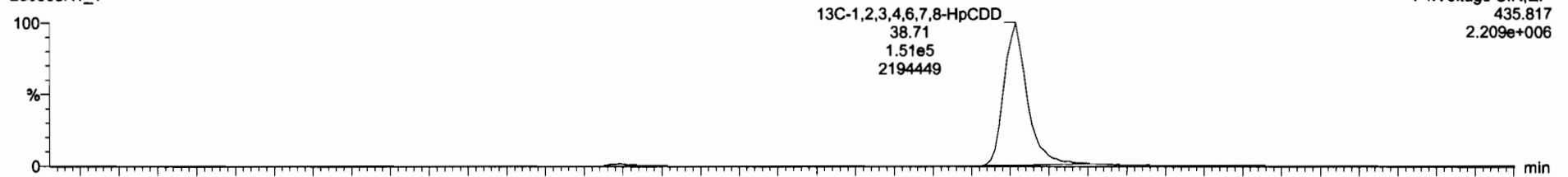


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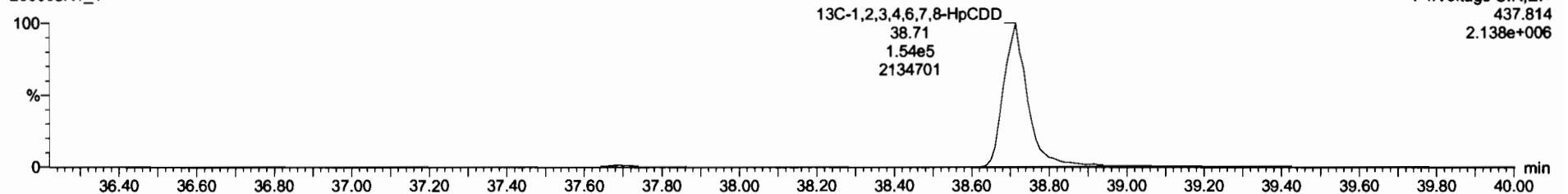


13C-1,2,3,4,6,7,8-HpCDD

200608R1_1



200608R1_1



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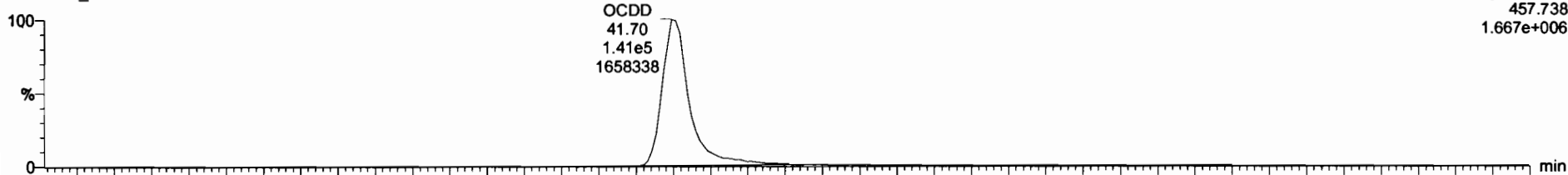
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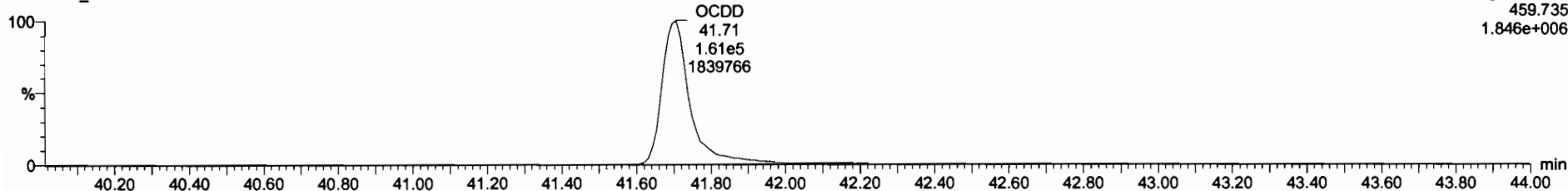
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OCDD

200608R1_1

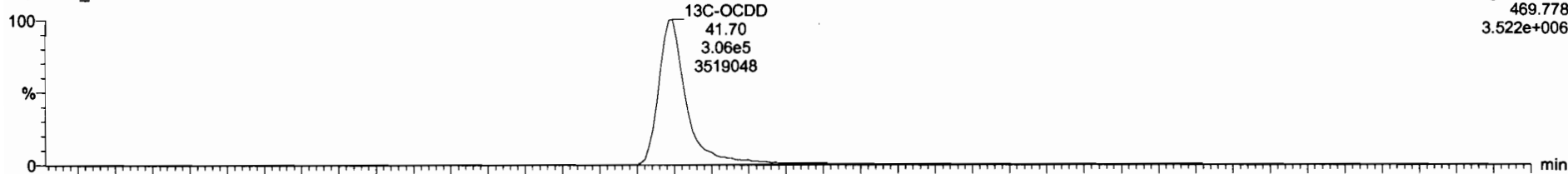


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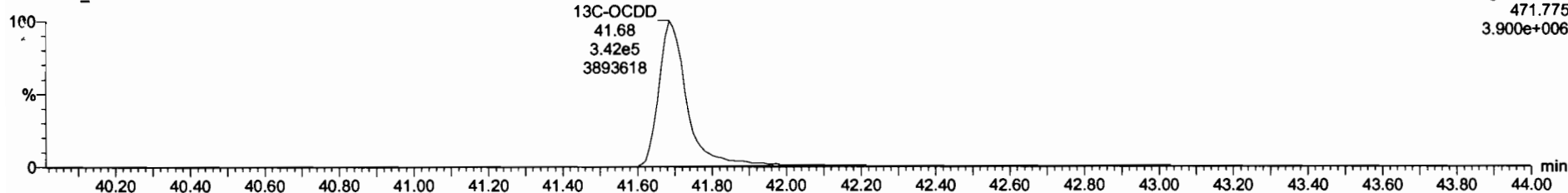


13C-OCDD

200608R1_1



200608R1_1



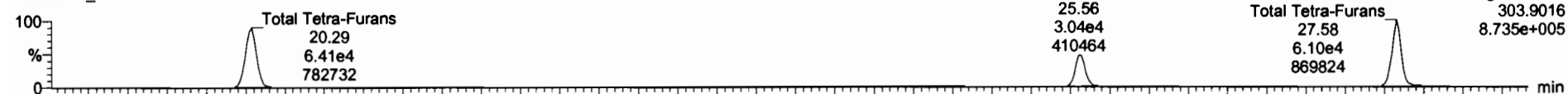
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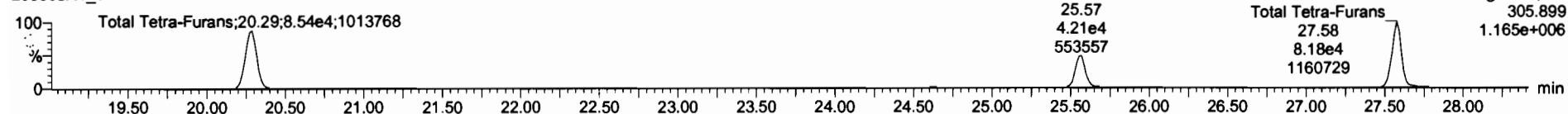
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2,3,7,8-TCDF

200608R1_1

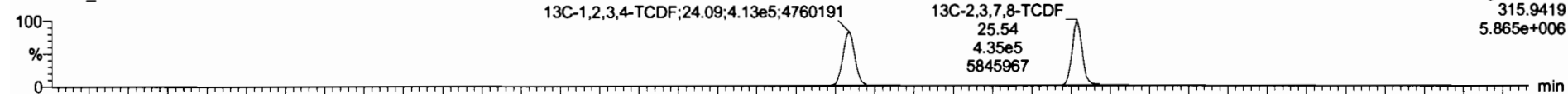


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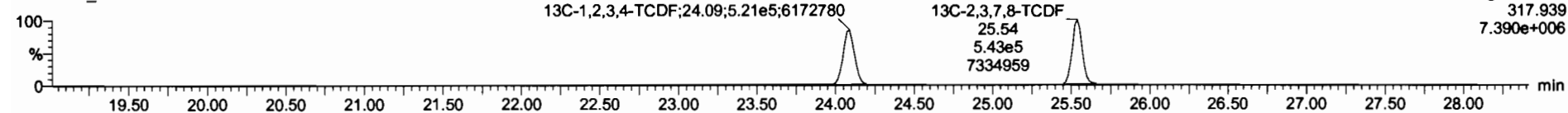


13C-2,3,7,8-TCDF

200608R1_1

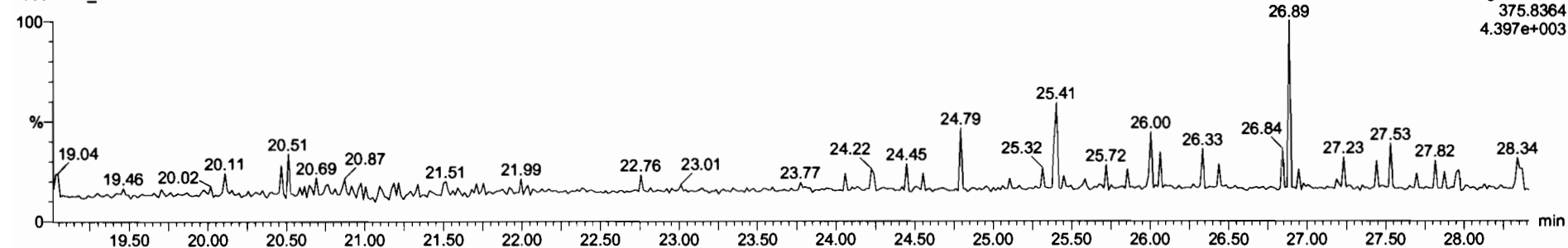


200608R1_1



DPE1

200608R1_1



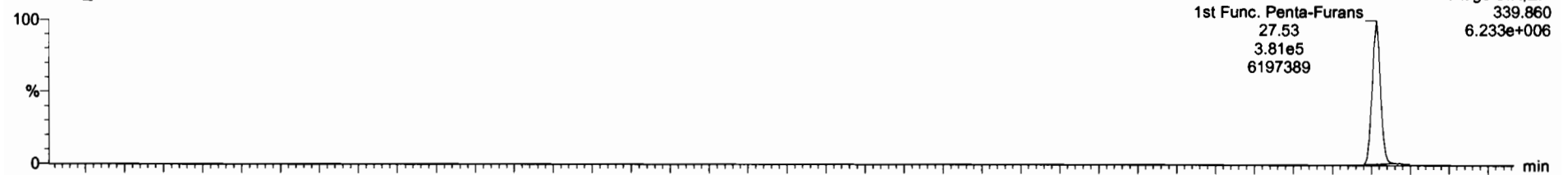
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Printed: Monday, June 08, 2020 12:30:38 Pacific Daylight Time

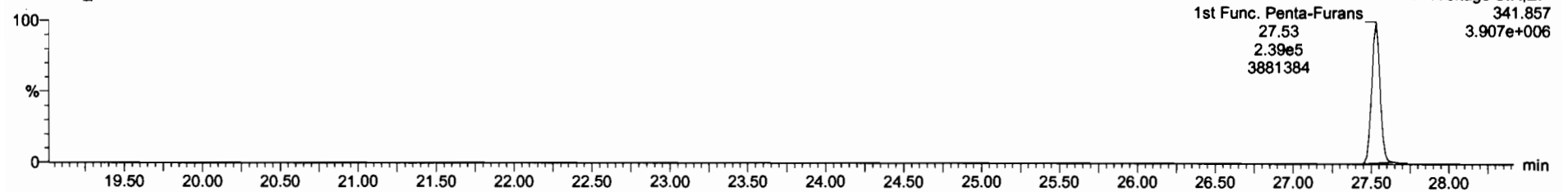
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200608R1_1

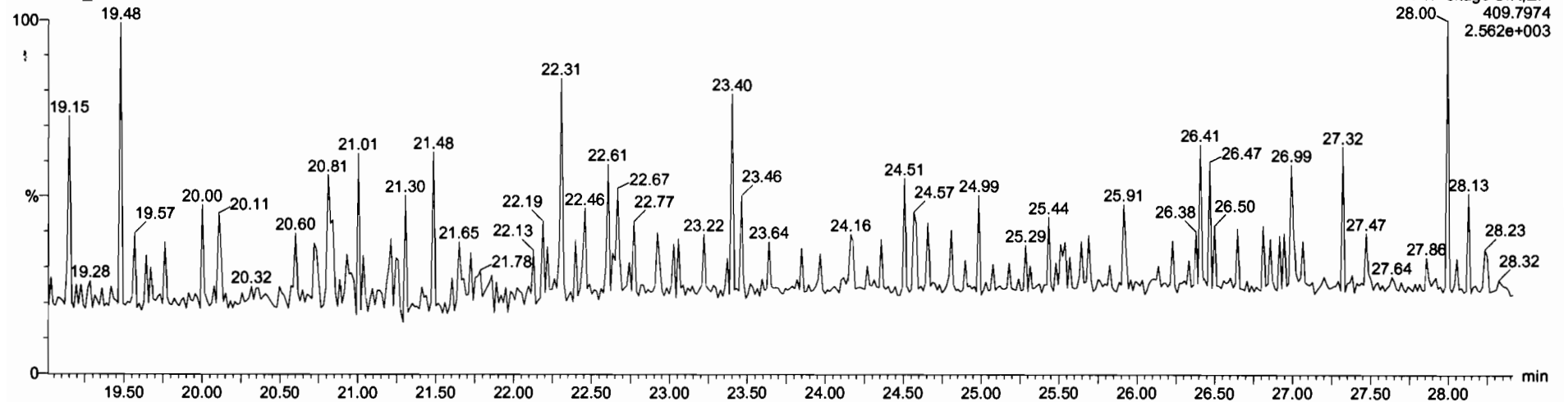


200608R1_1



DPE6

200608R1_1



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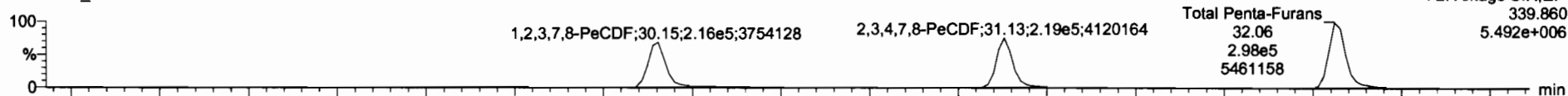
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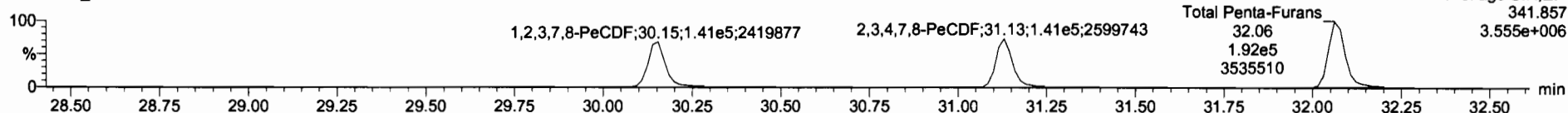
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1,2,3,7,8-PeCDF

200608R1_1

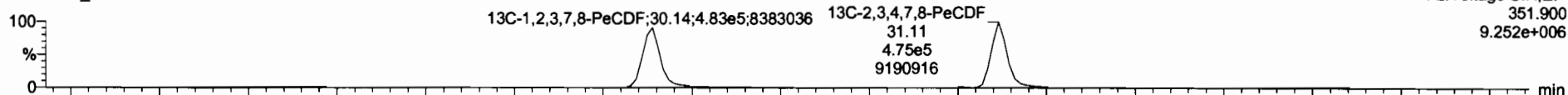


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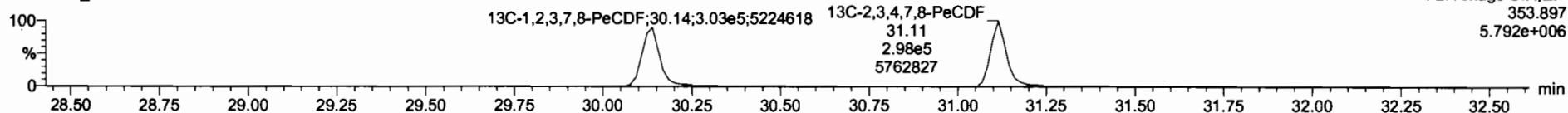


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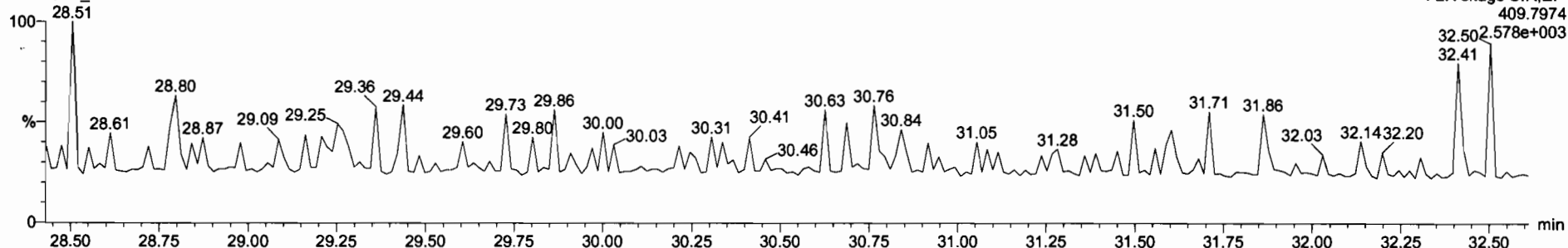


200608R1_1



DPE2

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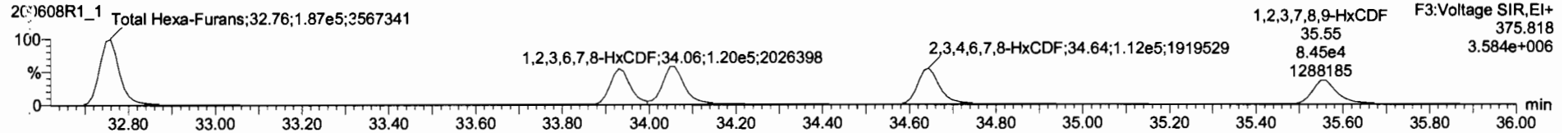
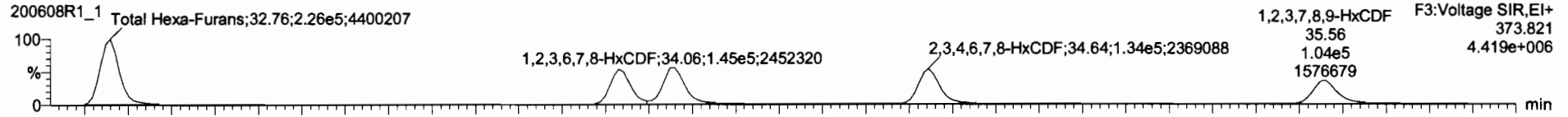


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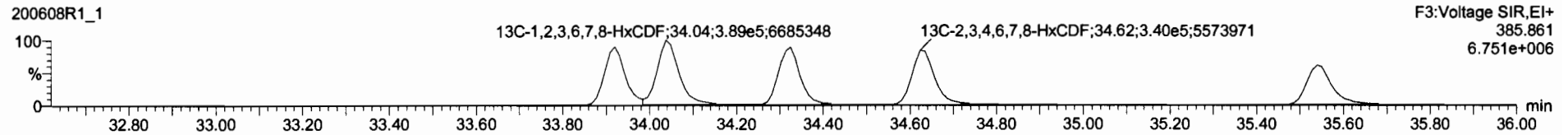
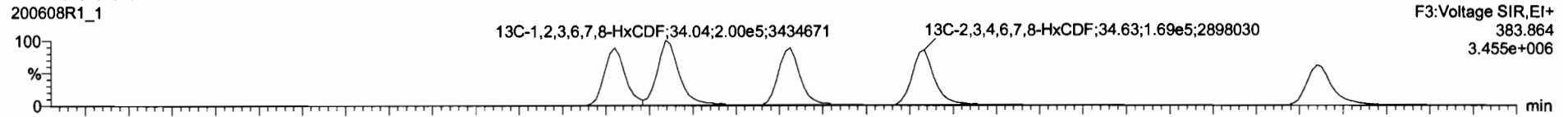
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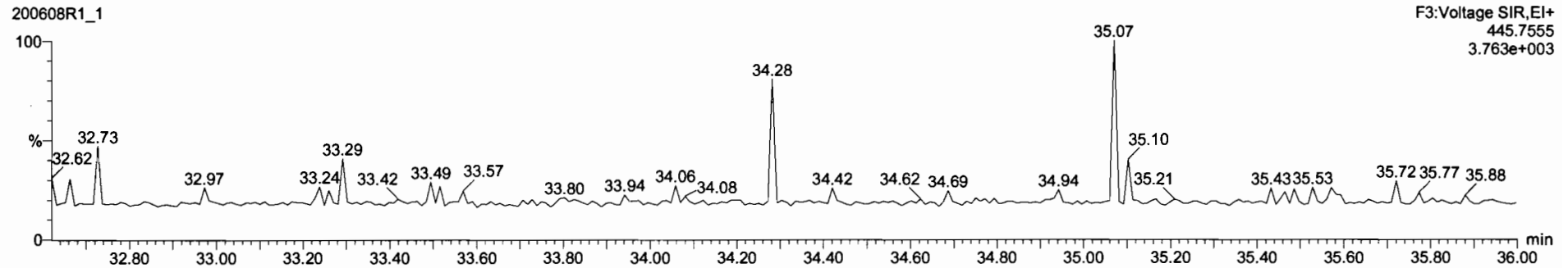
1,2,3,4,7,8-HxCDF

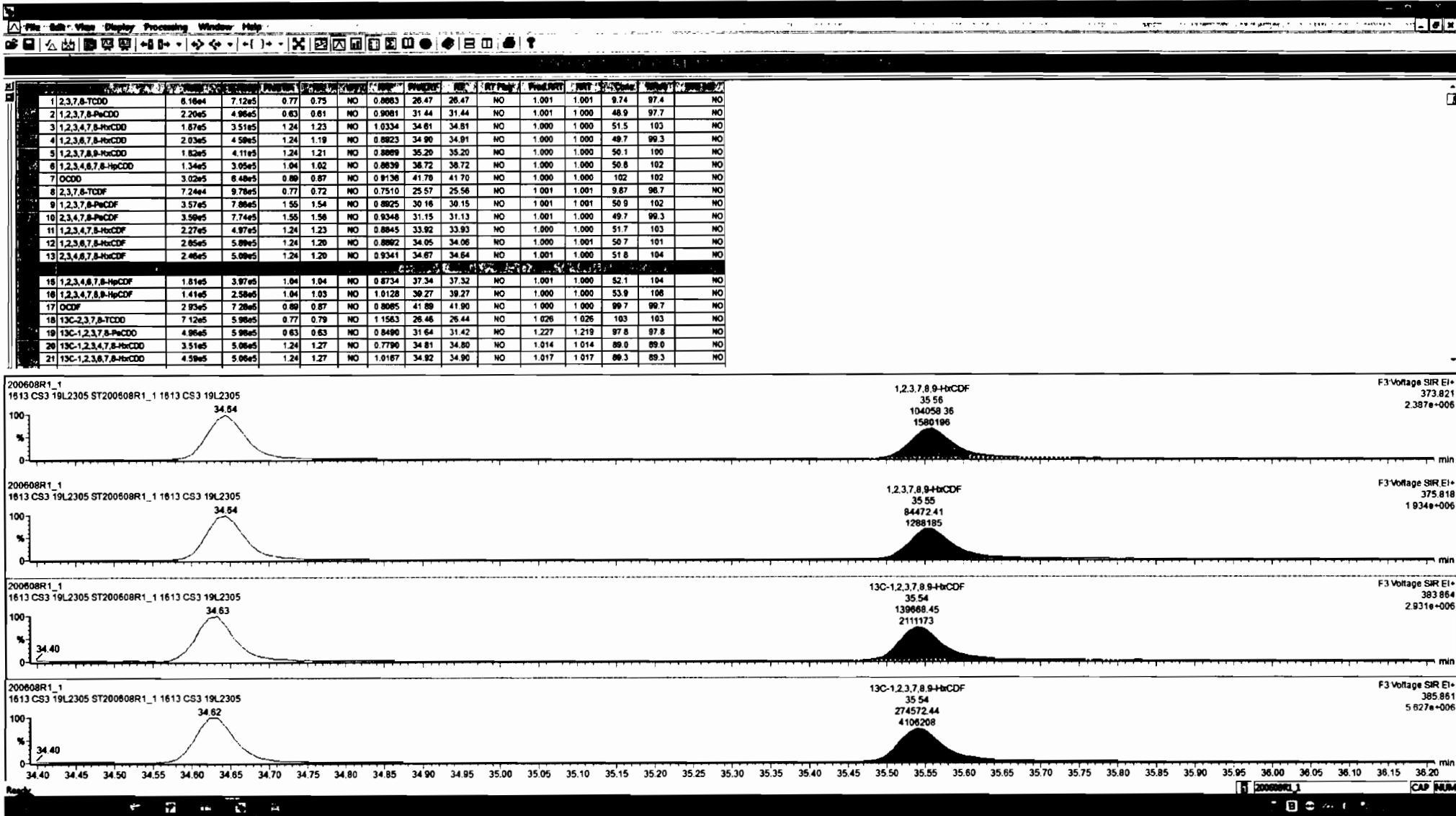


13C-1,2,3,4,7,8-HxCDF



DPE3





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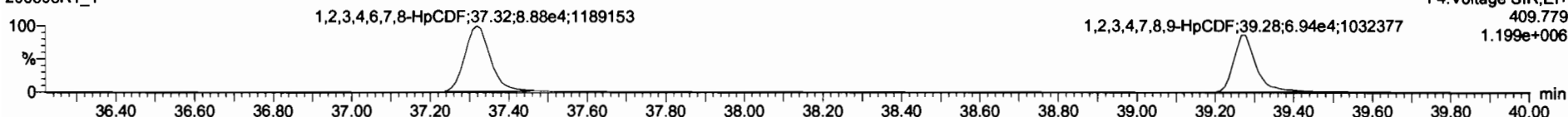
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1,2,3,4,6,7,8-HpCDF

200608R1_1



200608R1_1

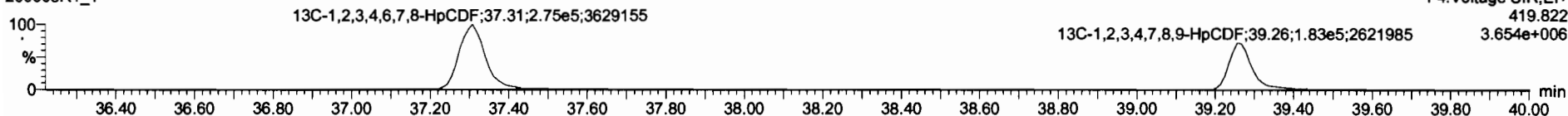


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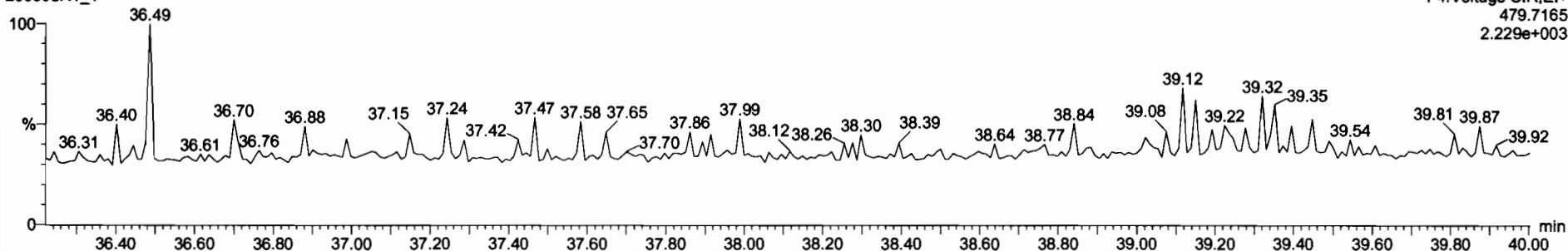


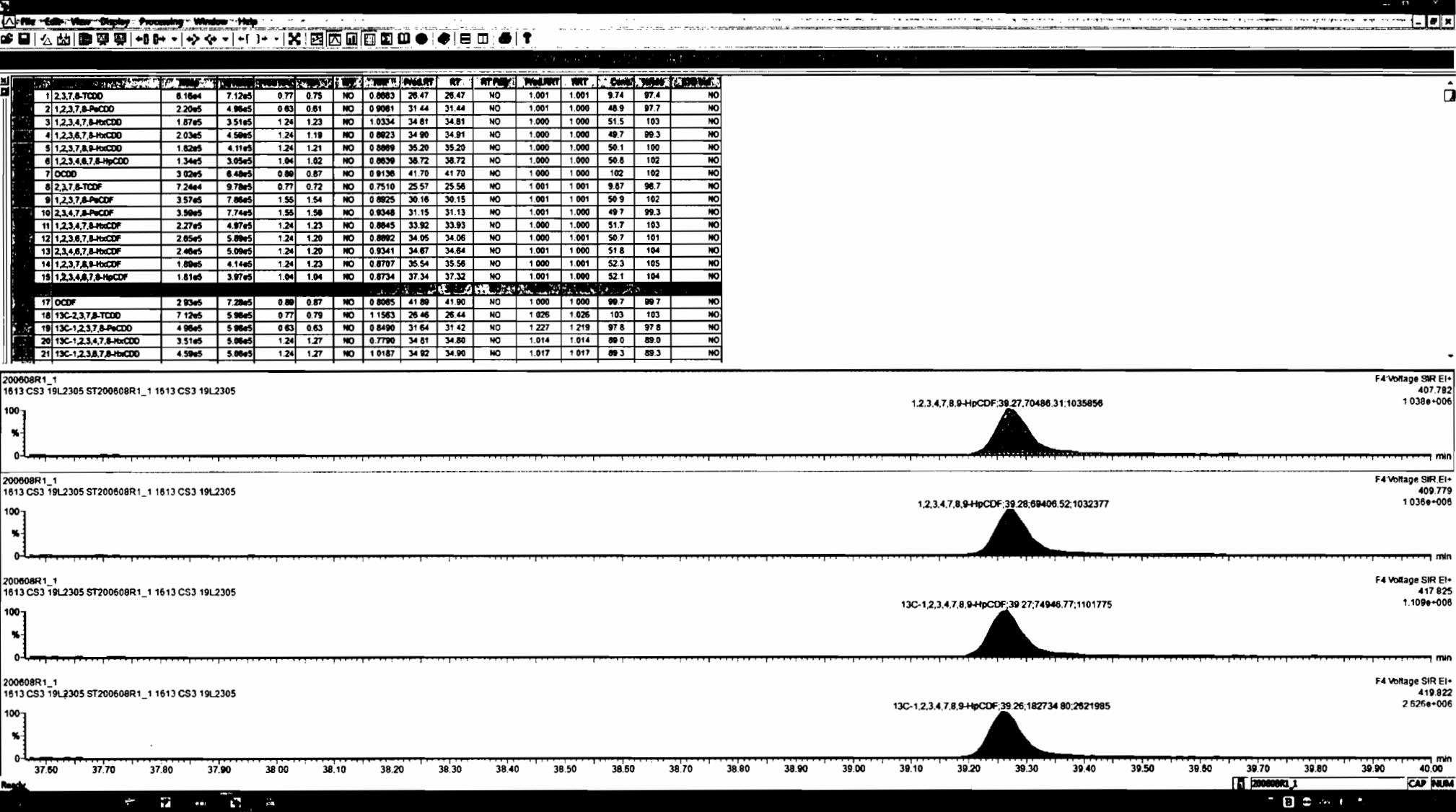
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DPE4

200608R1_1





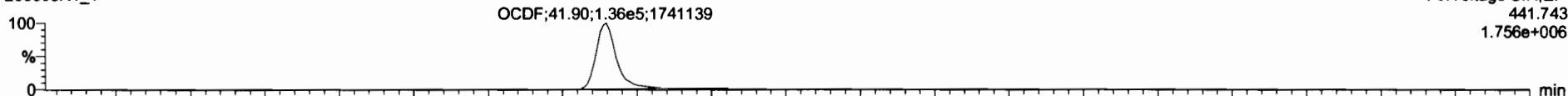
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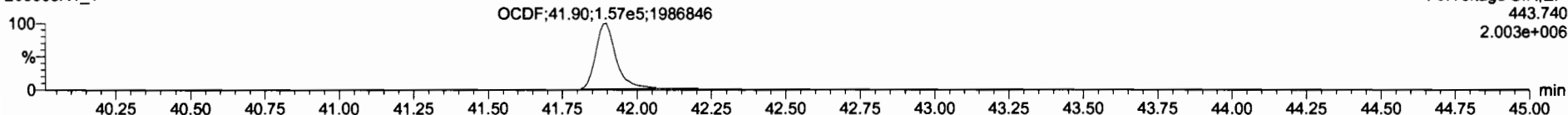
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OCDF

200608R1_1

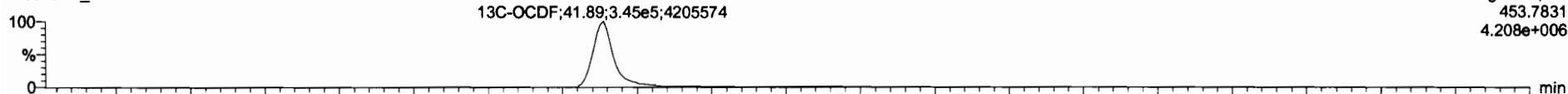


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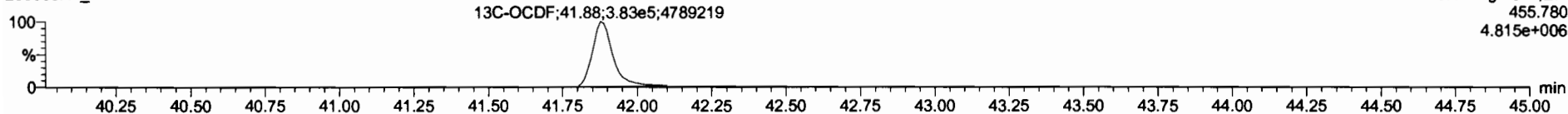


13C-OCDF

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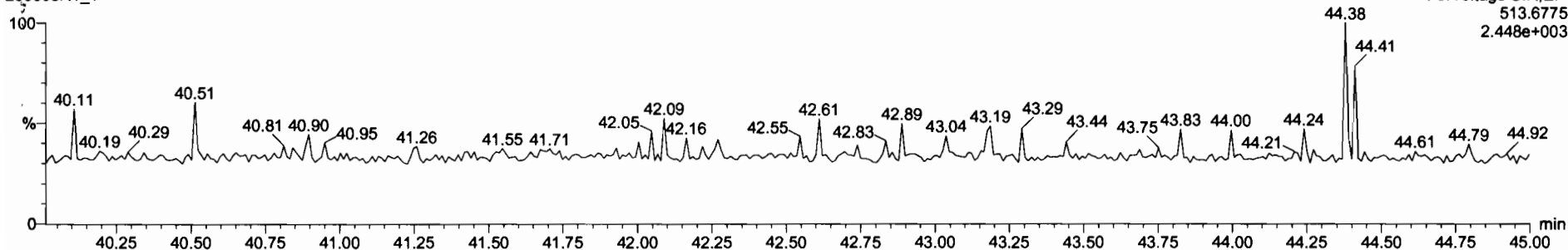


200608R1_1



DPE5

200608R1_1



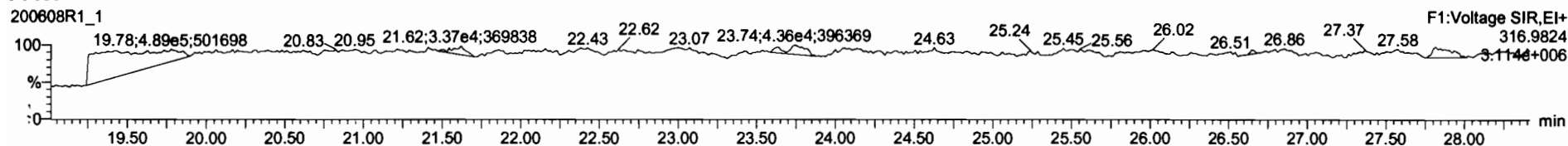
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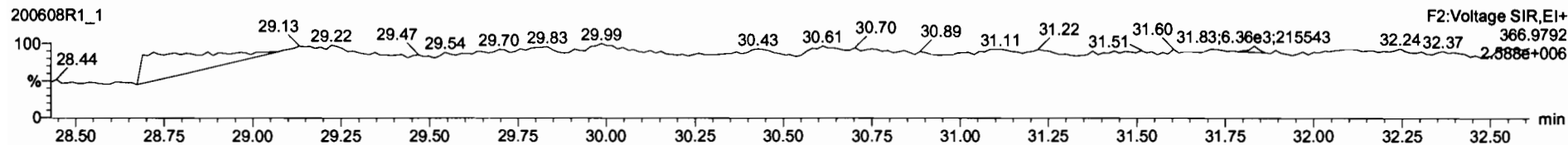
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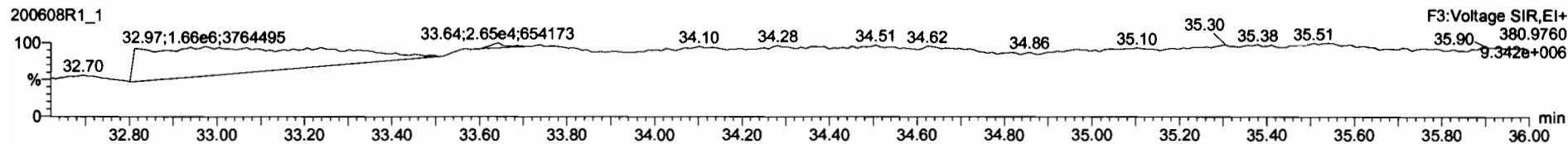
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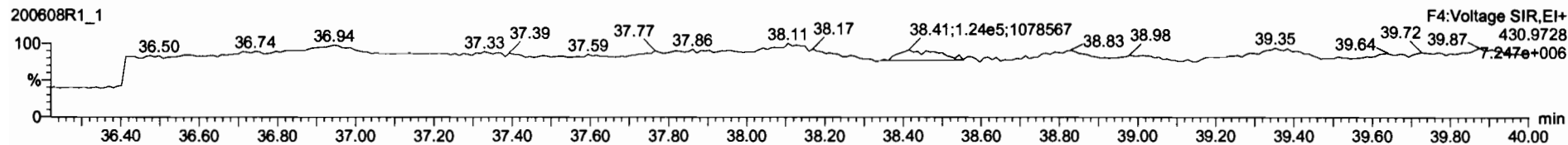
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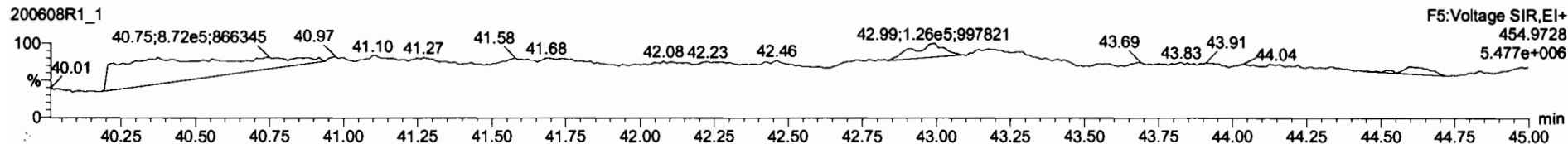
PFK3



PFK4

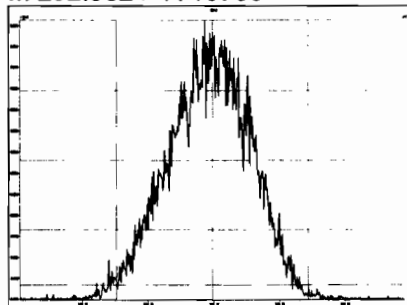


PFK5

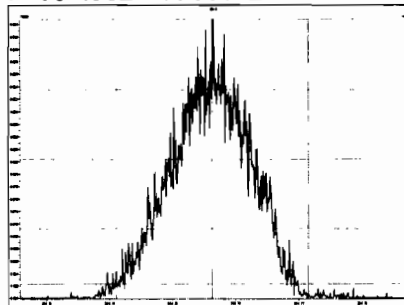


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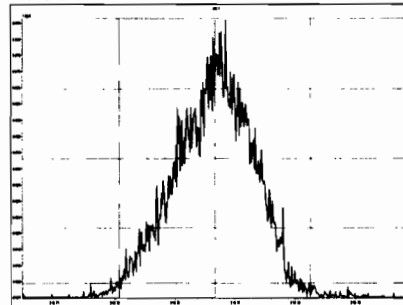
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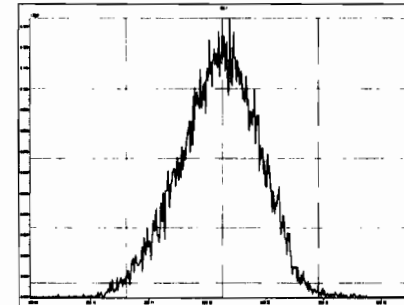
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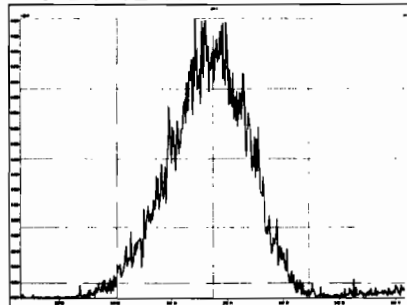
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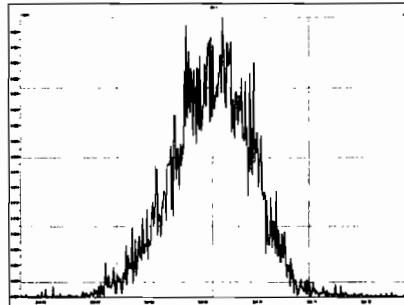
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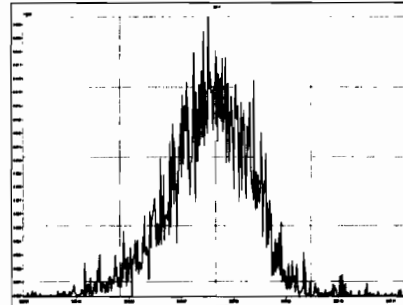
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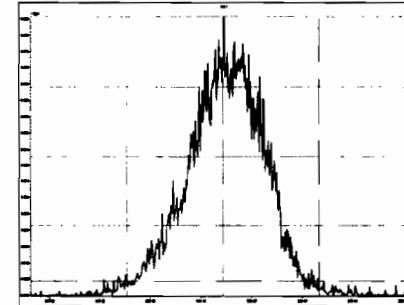
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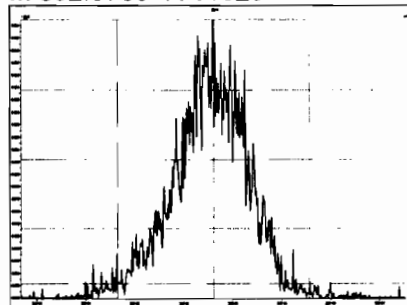
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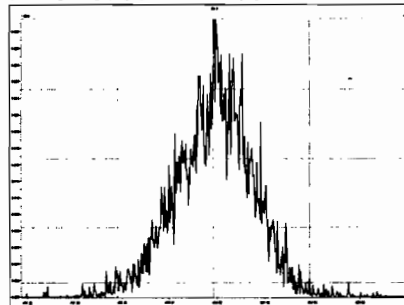
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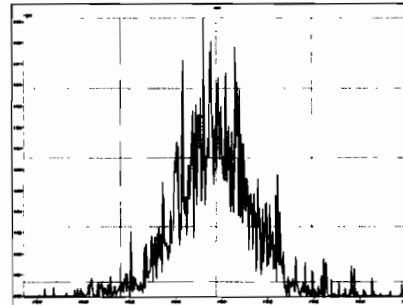
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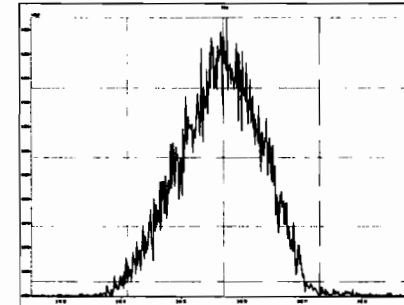
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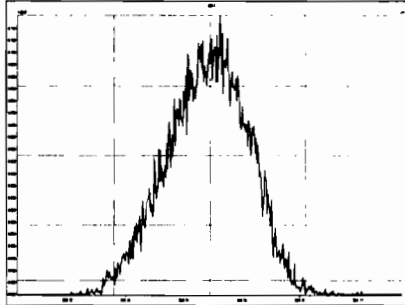


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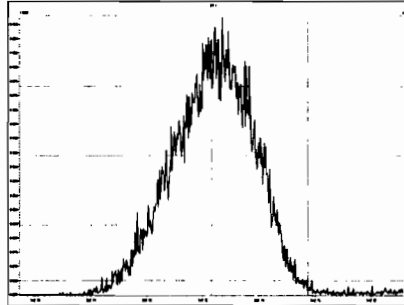


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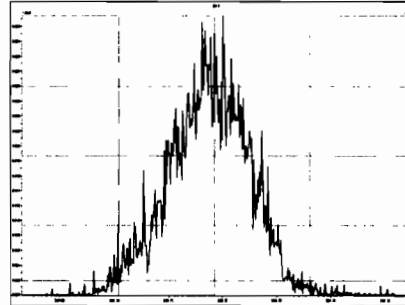
M 330.9792 R 10916



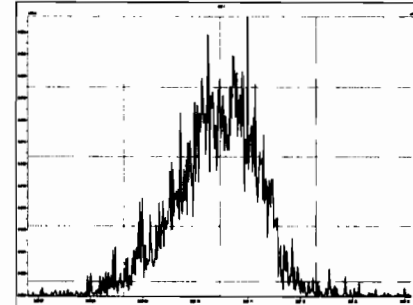
M 342.9792 R 10846



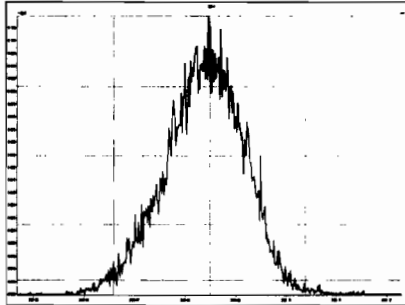
M 354.9792 R 11399



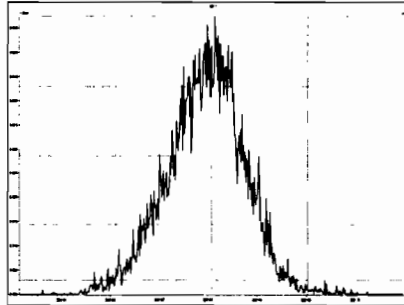
M 366.9792 R 11931



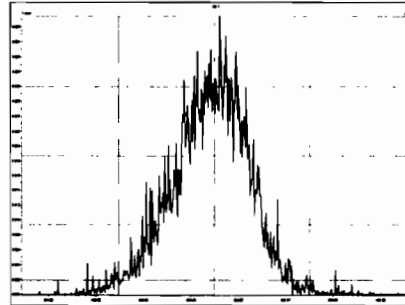
M 380.9760 R 11494



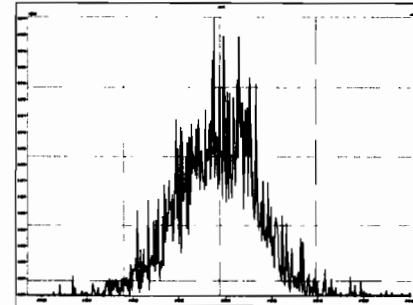
M 392.9760 R 11609



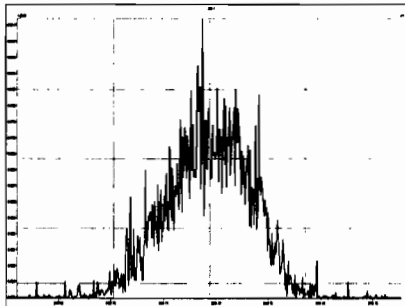
M 404.9760 R 11174



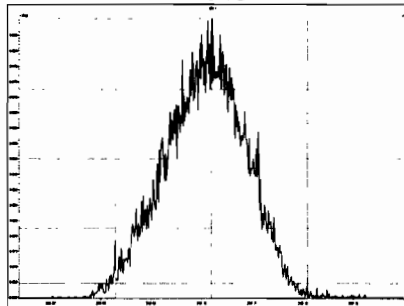
M 416.9760 R 13932



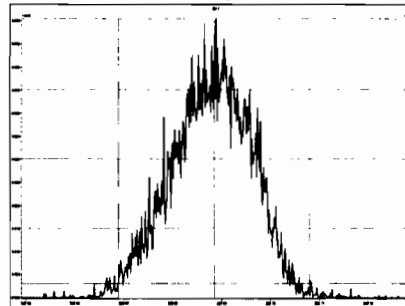
M 366.9792 R 11629



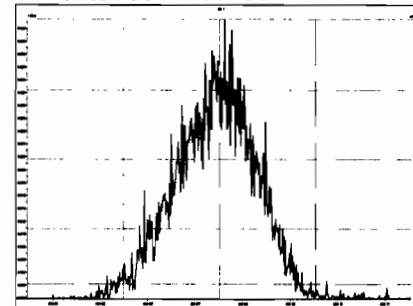
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M 392.9760 R 11072

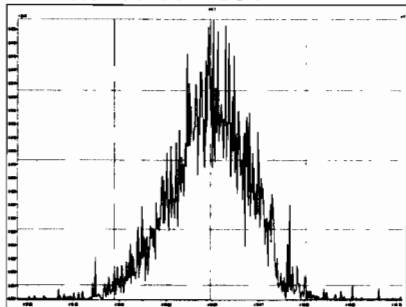


M 404.9760 R 11769

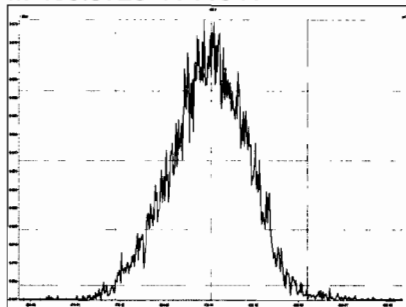


Printed: Tuesday, June 09, 2020 00:12:59 Pacific Daylight Time

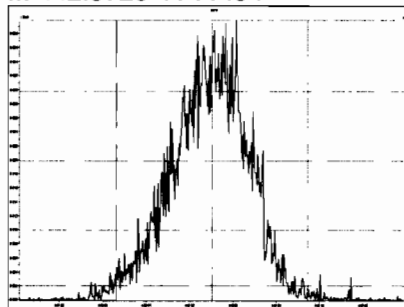
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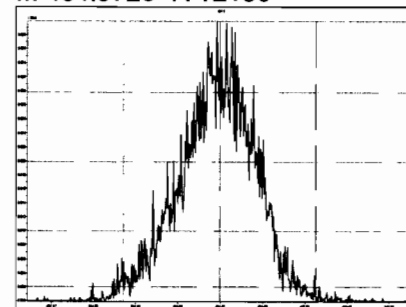
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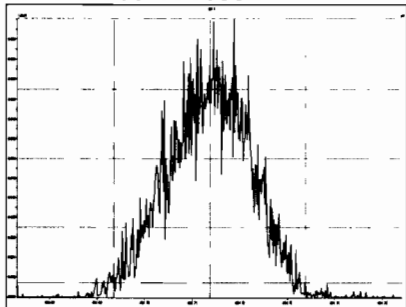
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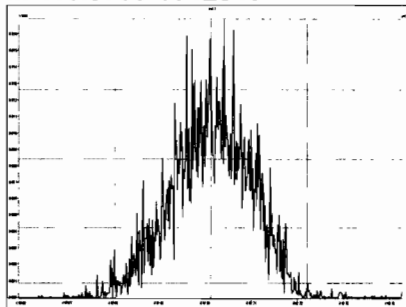
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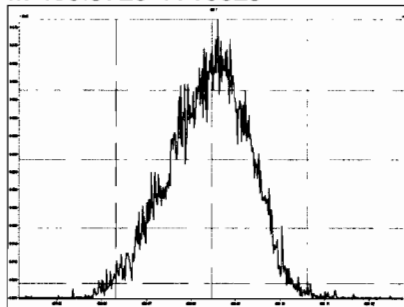
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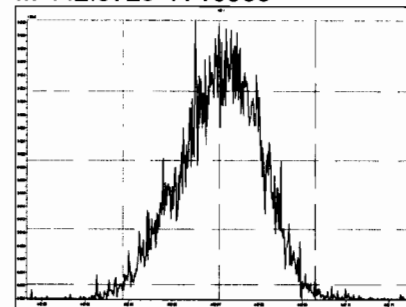
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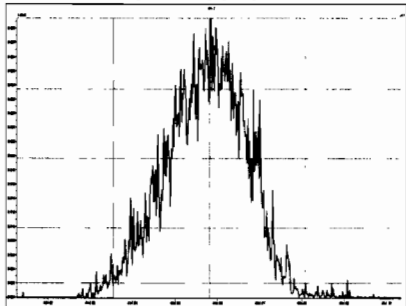
M 430.9728 R 10829



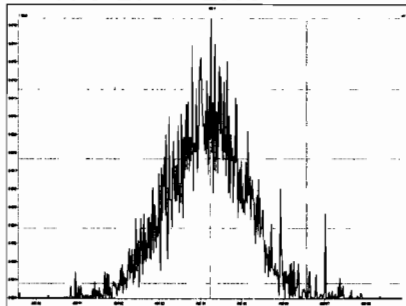
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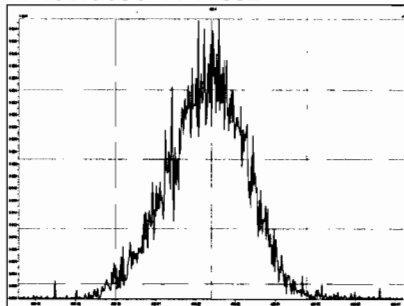
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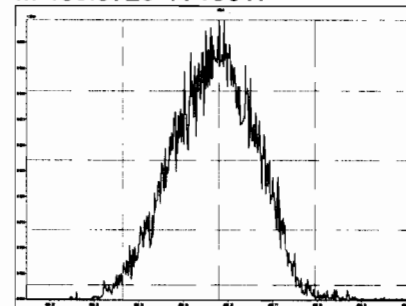
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M 480.9696 R 11392

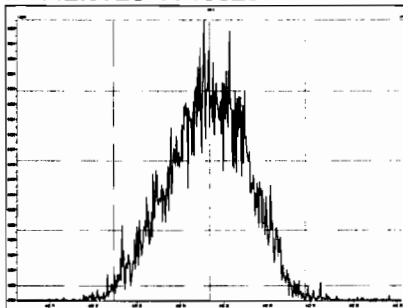


M 430.9728 R 10617

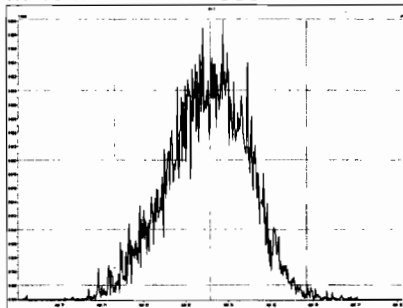


Printed: Tuesday, June 09, 2020 00:12:59 Pacific Daylight Time

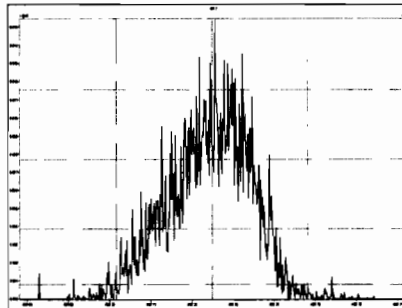
M 442.9728 R 10829



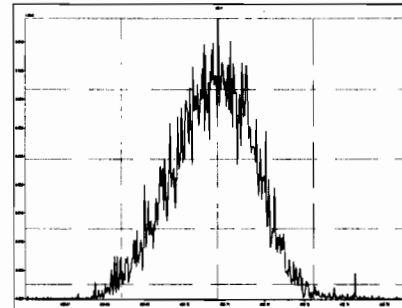
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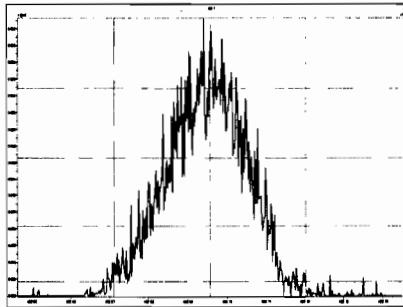
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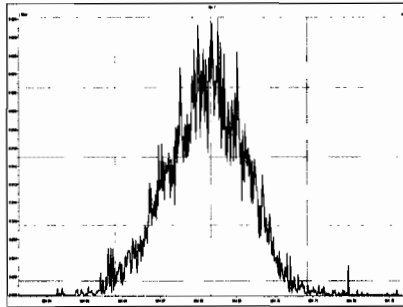
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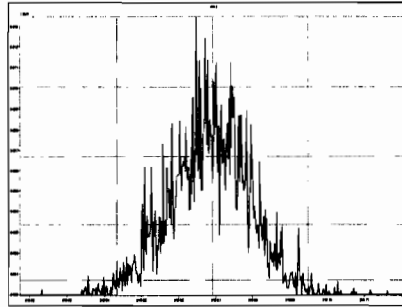
M 492.9696 R 11365



M 504.9696 R 10917



M 516.9697 R 13298



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20060822-1

Reviewed By: CT 06/09/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox" value="NA"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox" value="NA"/>	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox" value="NA"/>
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:	<div style="height: 150px;"></div>	
Correct ICAL referenced?	<u>GPB</u>	<u>GPB</u>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox" value="v"/>			
- Samples within 12 hour clock?	<input type="checkbox" value="Y"/>	<input type="checkbox" value="N"/>			
- Bottle position verified?	<u>GPB</u>				

Dataset: U:\VG12.PRO\Results\200608R2\200608R2-2.qld

Last Altered: Tuesday, June 09, 2020 07:28:47 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 07:29:43 Pacific Daylight Time

GAB 06/09/2020
06/09/2020

Method: Untitled 01 Jun 2020 11:54:45

Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

C7 06/09/2020

Name: 200608R2_2, Date: 09-Jun-2020, Time: 00:59:18, ID: ST200608R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1	2,3,7,8-TCDD	6.62e4	7.46e5	0.76	NO	0.888	26.47	26.45	NO	1.001	1.001	9.9962	100	NO
2	1,2,3,7,8-PeCDD	2.24e5	5.02e5	0.62	NO	0.908	31.44	31.44	NO	1.001	1.000	49.184	98.4	NO
3	1,2,3,4,7,8-HxCDD	1.84e5	3.54e5	1.25	NO	1.03	34.80	34.80	NO	1.000	1.000	50.373	101	NO
4	1,2,3,6,7,8-HxCDD	2.02e5	4.49e5	1.25	NO	0.892	34.90	34.91	NO	1.000	1.000	50.492	101	NO
5	1,2,3,7,8,9-HxCDD	1.77e5	4.01e5	1.25	NO	0.887	35.20	35.20	NO	1.000	1.000	49.861	99.7	NO
6	1,2,3,4,6,7,8-HpCDD	1.34e5	3.11e5	1.00	NO	0.864	38.74	38.73	NO	1.000	1.000	49.873	99.7	NO
7	OCDD	2.51e5	5.39e5	0.90	NO	0.914	41.72	41.72	NO	1.000	1.000	101.72	102	NO
8	2,3,7,8-TCDF	7.71e4	1.02e6	0.74	NO	0.751	25.57	25.56	NO	1.001	1.001	10.031	100	NO
9	1,2,3,7,8-PeCDF	3.59e5	8.01e5	1.59	NO	0.893	30.14	30.14	NO	1.001	1.001	50.182	100	NO
10	2,3,4,7,8-PeCDF	3.56e5	7.66e5	1.57	NO	0.935	31.15	31.13	NO	1.001	1.000	49.786	99.6	NO
11	1,2,3,4,7,8-HxCDF	2.30e5	5.06e5	1.19	NO	0.884	33.92	33.93	NO	1.000	1.000	51.476	103	NO
12	1,2,3,6,7,8-HxCDF	2.64e5	5.88e5	1.20	NO	0.889	34.05	34.06	NO	1.000	1.001	50.458	101	NO
13	2,3,4,6,7,8-HxCDF	2.45e5	5.11e5	1.20	NO	0.934	34.66	34.64	NO	1.001	1.001	51.289	103	NO
14	1,2,3,7,8,9-HxCDF	1.83e5	4.05e5	1.21	NO	0.871	35.54	35.56	NO	1.000	1.001	51.996	104	NO
15	1,2,3,4,6,7,8-HpCDF	1.73e5	3.77e5	1.02	NO	0.873	37.34	37.32	NO	1.001	1.000	52.468	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.32e5	2.53e5	0.99	NO	1.01	39.27	39.28	NO	1.000	1.000	51.535	103	NO
17	OCDF	2.76e5	6.78e5	0.87	NO	0.806	41.91	41.91	NO	1.000	1.000	101.02	101	NO
18	13C-2,3,7,8-TCDD	7.46e5	6.44e5	0.78	NO	1.16	26.46	26.44	NO	1.026	1.026	100.17	100	NO
19	13C-1,2,3,7,8-PeCDD	5.02e5	6.44e5	0.65	NO	0.849	31.64	31.42	NO	1.227	1.219	91.836	91.8	NO
20	13C-1,2,3,4,7,8-HxCDD	3.54e5	5.04e5	1.29	NO	0.779	34.80	34.79	NO	1.014	1.014	90.084	90.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.49e5	5.04e5	1.27	NO	1.02	34.91	34.90	NO	1.017	1.017	87.583	87.6	NO
22	13C-1,2,3,7,8,9-HxCDD	4.01e5	5.04e5	1.29	NO	0.903	35.18	35.19	NO	1.025	1.025	88.196	88.2	NO
23	13C-1,2,3,4,6,7,8-HpCDD	3.11e5	5.04e5	1.06	NO	0.689	38.70	38.72	NO	1.128	1.129	89.514	89.5	NO
24	13C-OCDD	5.39e5	5.04e5	0.90	NO	0.652	41.72	41.72	NO	1.216	1.216	164.16	82.1	NO
25	13C-2,3,7,8-TCDF	1.02e6	9.79e5	0.77	NO	1.06	25.50	25.54	NO	0.989	0.991	98.767	98.8	NO
26	13C-1,2,3,7,8-PeCDF	8.01e5	9.79e5	1.60	NO	0.838	30.02	30.12	NO	1.165	1.168	97.683	97.7	NO
27	13C-2,3,4,7,8-PeCDF	7.66e5	9.79e5	1.62	NO	0.817	30.97	31.11	NO	1.202	1.207	95.840	95.8	NO
28	13C-1,2,3,4,7,8-HxCDF	5.06e5	5.04e5	0.51	NO	1.01	33.93	33.92	NO	0.989	0.989	99.689	99.7	NO
29	13C-1,2,3,6,7,8-HxCDF	5.88e5	5.04e5	0.50	NO	1.17	34.05	34.04	NO	0.992	0.992	100.07	100	NO
30	13C-2,3,4,6,7,8-HxCDF	5.11e5	5.04e5	0.50	NO	1.02	34.63	34.62	NO	1.009	1.009	99.311	99.3	NO
31	13C-1,2,3,7,8,9-HxCDF	4.05e5	5.04e5	0.49	NO	0.860	35.53	35.54	NO	1.035	1.036	93.525	93.5	NO

Dataset: U:\VG12.PRO\Results\200608R2\200608R2-2.qld

Last Altered: Tuesday, June 09, 2020 07:28:47 Pacific Daylight Time

Printed: Tuesday, June 09, 2020 07:29:43 Pacific Daylight Time

Name: 200608R2_2, Date: 09-Jun-2020, Time: 00:59:18, ID: ST200608R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

32	13C-1,2,3,4,6,7,8-HpCDF	3.77e5	5.04e5	0.43	NO	0.774	37.27	37.31	NO	1.086	1.087	96.562	96.6	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.53e5	5.04e5	0.42	NO	0.521	39.30	39.27	NO	1.145	1.144	96.362	96.4	NO
34	13C-OCDF	6.78e5	5.04e5	0.90	NO	0.746	41.89	41.91	NO	1.221	1.221	180.55	90.3	NO
35	37Cl-2,3,7,8-TCDD	6.61e4	6.44e5			1.04	26.49	26.45	NO	1.028	1.026	9.8948	98.9	NO
36	13C-1,2,3,4-TCDD	6.44e5	6.44e5	0.82	NO	1.00	25.89	25.78	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	9.79e5	9.79e5	0.79	NO	1.00	24.36	24.09	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	5.04e5	5.04e5	0.51	NO	1.00	34.31	34.31	NO	1.000	1.000	100.00	100	YES <i>sk</i>

Dataset: Untitled

Last Altered: Tuesday, June 09, 2020 09:51:33 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 09:51:54 Pacific Daylight Time

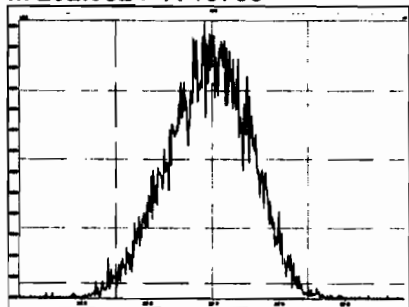
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

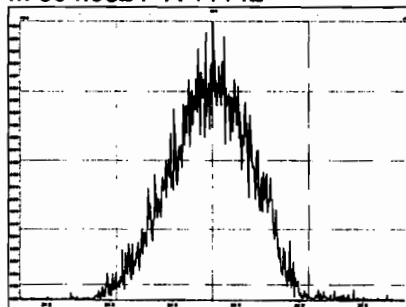
200608R2_1	SOLVENT BLANK	09-Jun-20	00:13:02
200608R2_2	ST200608R2_1 1613 CS3 19L2305	09-Jun-20	00:59:18
200608R2_3	SOLVENT BLANK	09-Jun-20	01:45:34
200608R2_4	2001037-12 PDI-098SC-B-05-07-200507 15.77	09-Jun-20	02:31:48
200608R2_5	2001037-13 PDI-1098SC-B-05-07-200507 15.94	09-Jun-20	03:18:01
200608R2_6	2001037-14 PDI-098SG-00-01-200507 14.97	09-Jun-20	04:04:15
200608R2_7	2000995-10@2X PDI-072SC-B-04-06-200430 ...	09-Jun-20	04:50:30
200608R2_8	2000995-05@5X PDI-068SC-B-05-07-200430 ...	09-Jun-20	05:36:44
200608R2_9	2000995-03@10X PDI-068SC-B-00-02-20043...	09-Jun-20	06:22:59
200608R2_10	2001034-01 PDI-085SC-B-00-02-200508 20.45	09-Jun-20	07:09:15
200608R2_11	2001034-02 PDI-085SC-B-02-05-200508 17.75	09-Jun-20	07:55:27
200608R2_12	2001034-03 PDI-085SC-B-05-07-200508 16.96	09-Jun-20	08:41:41

Printed: Tuesday, June 09, 2020 00:12:59 Pacific Daylight Time

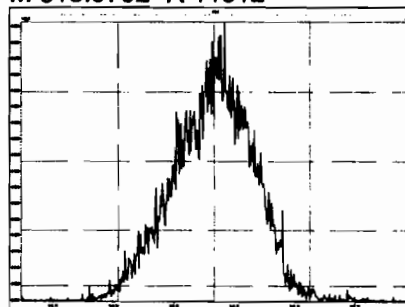
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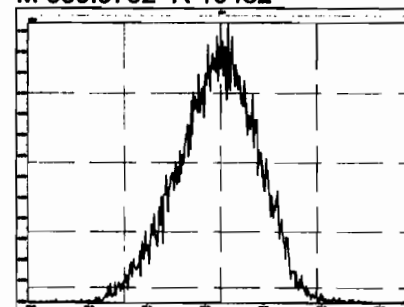
M 304.9824 R 11142



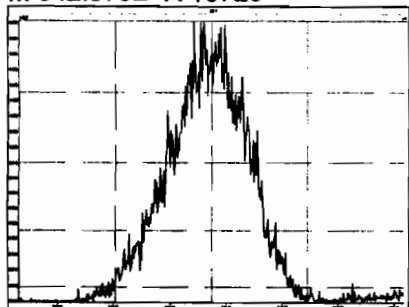
M 318.9792 R 11312



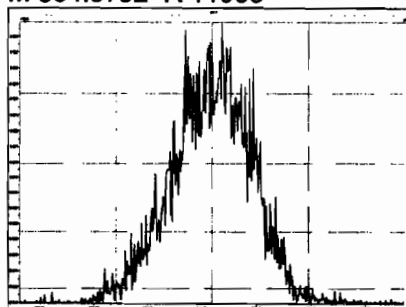
M 330.9792 R 10482



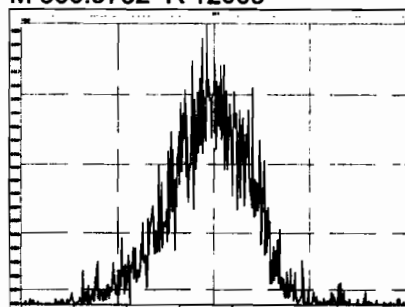
M 342.9792 R 10729



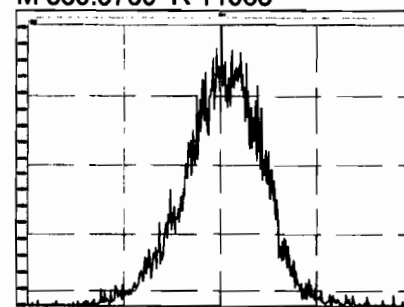
M 354.9792 R 11933



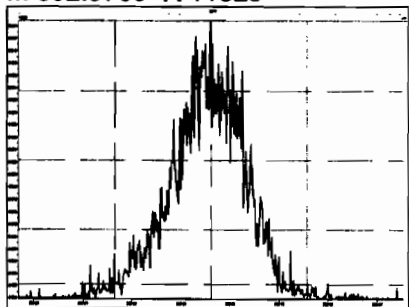
M 366.9792 R 12009



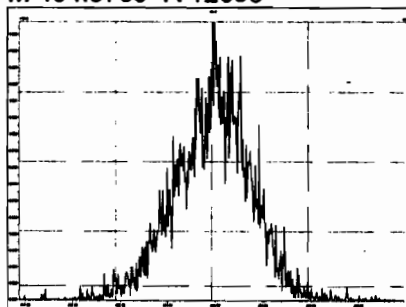
M 380.9760 R 11063



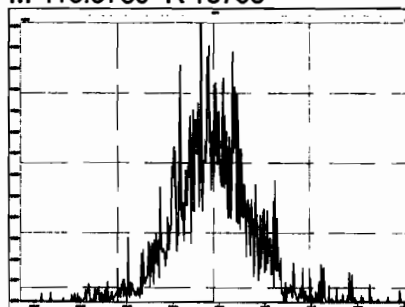
M 392.9760 R 11829



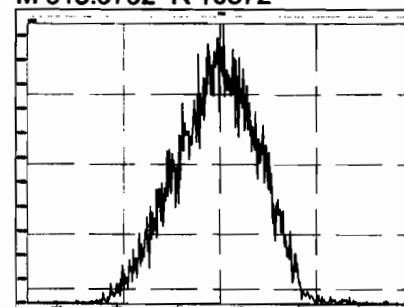
M 404.9760 R 12693



M 416.9760 R 13703

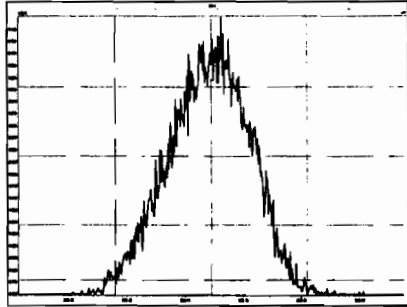


M 318.9792 R 10872

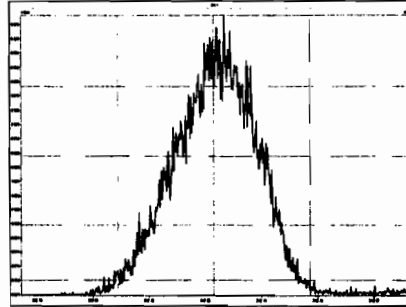


Printed: Tuesday, June 09, 2020 00:12:59 Pacific Daylight Time

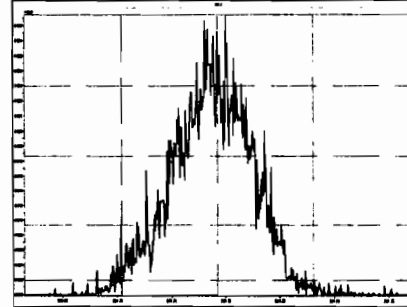
M 330.9792 R 10916



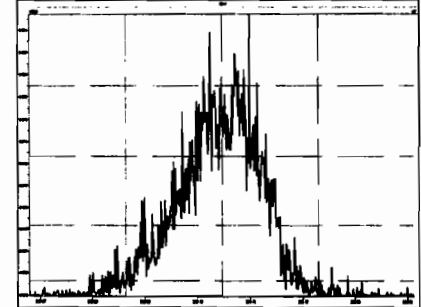
M 342.9792 R 10846



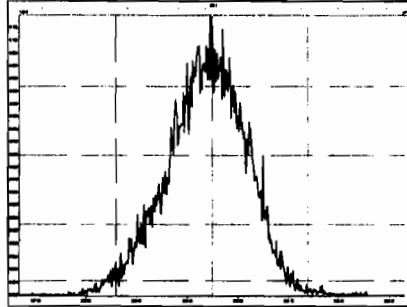
M 354.9792 R 11399



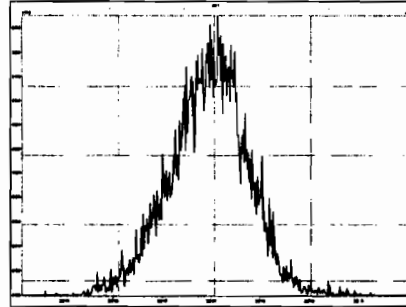
M 366.9792 R 11931



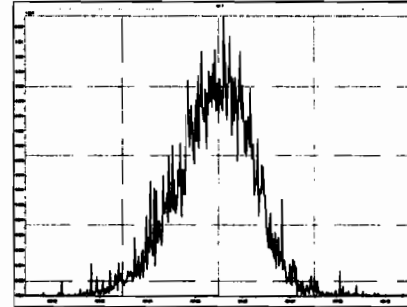
M 380.9760 R 11494



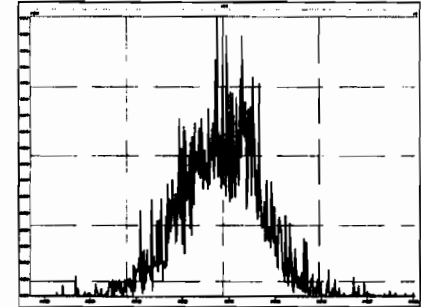
M 392.9760 R 11609



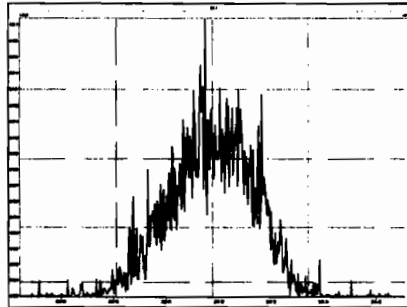
M 404.9760 R 11174



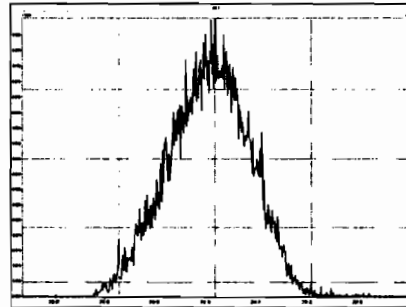
M 416.9760 R 13932



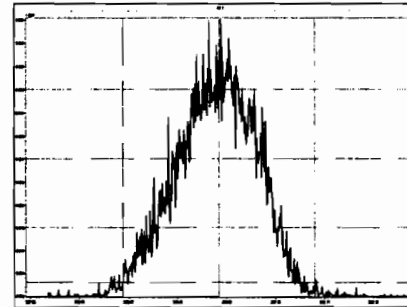
M 366.9792 R 11629



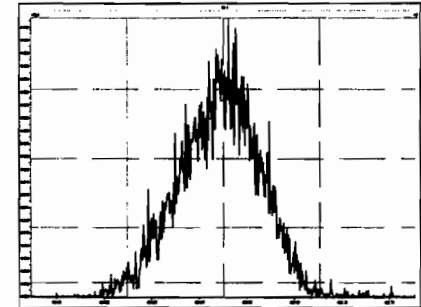
M 380.9760 R 10482



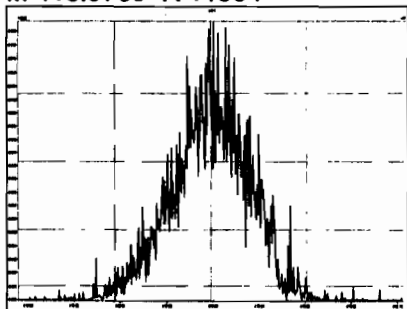
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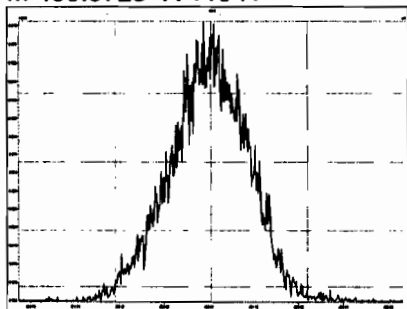
M 404.9760 R 11769



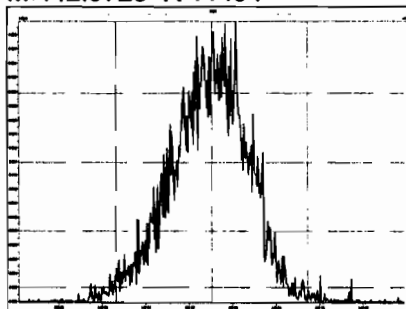
M 416.9760 R 11904



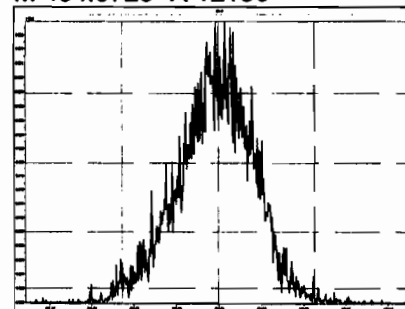
M 430.9728 R 11041



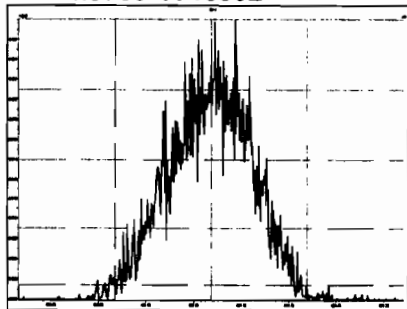
M 442.9728 R 11494



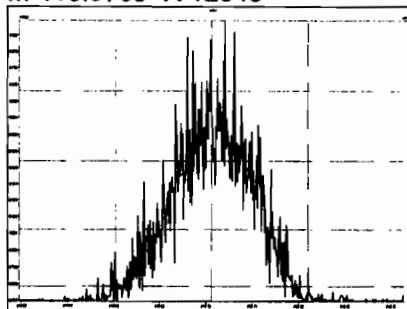
M 454.9728 R 12186



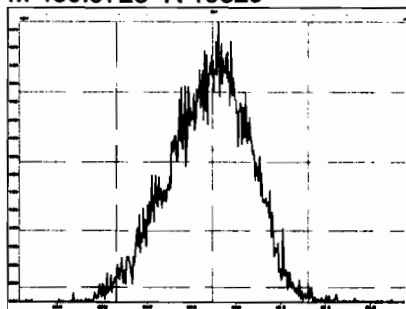
M 404.9760 R 10992



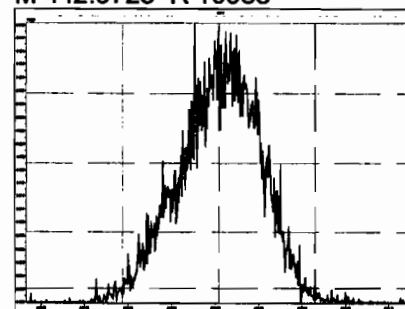
M 416.9760 R 12345



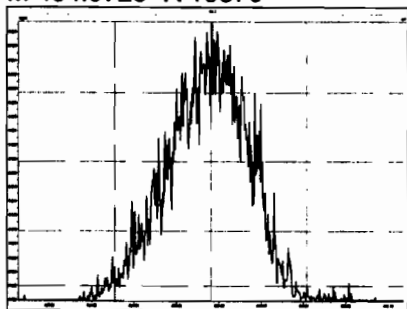
M 430.9728 R 10829



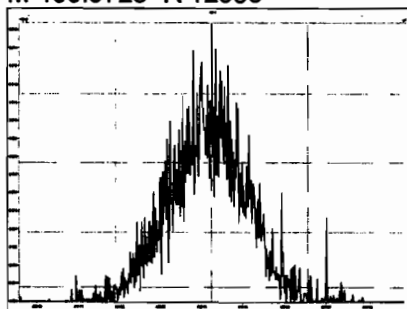
M 442.9728 R 10988



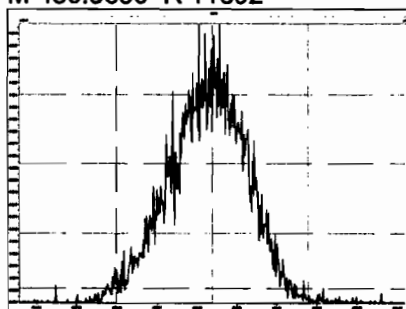
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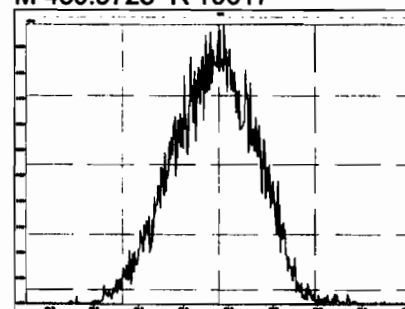
M 466.9728 R 12993



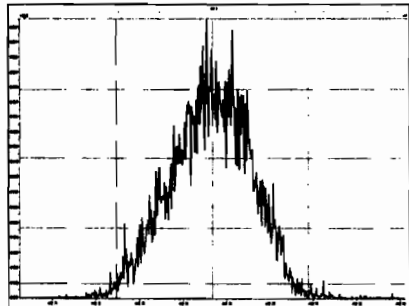
M 480.9696 R 11392



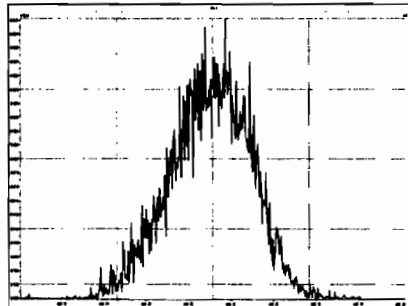
M 430.9728 R 10617



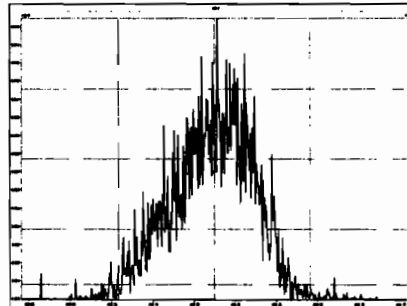
M 442.9728 R 10829



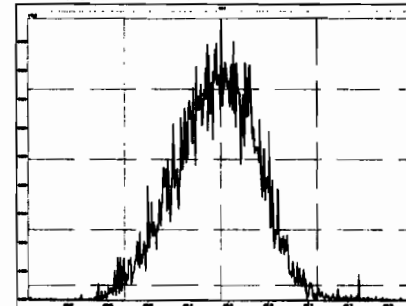
M 454.9728 R 11089



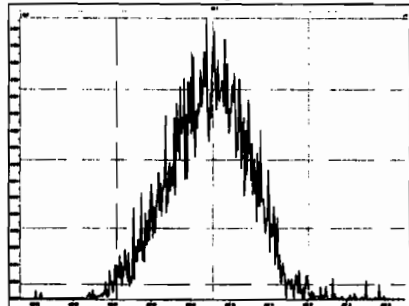
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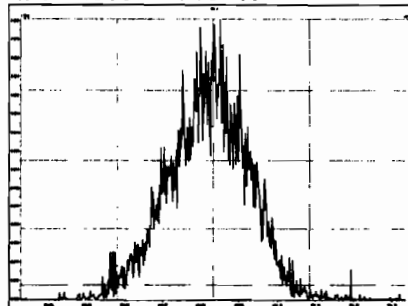
M 480.9696 R 10661



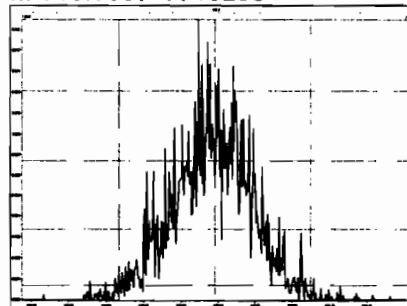
M 492.9696 R 11365



M 504.9696 R 10917



M 516.9697 R 13298



Dataset: Untitled

Last Altered: Tuesday, June 09, 2020 07:31:12 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 07:31:25 Pacific Daylight Time

Method: Untitled 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200608R2_2, Date: 09-Jun-2020, Time: 00:59:18, ID: ST200608R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1	1,3,6,8-TCDD (First)	22.41
2	1,2,8,9-TCDD (Last)	27.43
3	1,2,4,7,9-PeCDD (First)	29.21
4	1,2,3,8,9-PeCDD (Last)	31.82
5	1,2,4,6,7,9-HxCDD (First)	33.30
6	1,2,3,7,8,9-HxCDD (Last)	35.20
7	1,2,3,4,6,7,9-HpCDD (First)	37.71
8	1,2,3,4,6,7,8-HpCDD (Last)	38.73
9	1,3,6,8-TCDF (First)	20.29
10	1,2,8,9-TCDF (Last)	27.58
11	1,3,4,6,8-PeCDF (First)	27.53
12	1,2,3,8,9-PeCDF (Last)	32.06
13	1,2,3,4,6,8-HxCDF (First)	32.76
14	1,2,3,7,8,9-HxCDF (Last)	35.56
15	1,2,3,4,6,7,8-HpCDF (First)	37.32
16	1,2,3,4,7,8,9-HpCDF (Last)	39.28

Dataset: Untitled

Last Altered: Tuesday, June 09, 2020 07:31:12 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 07:31:25 Pacific Daylight Time

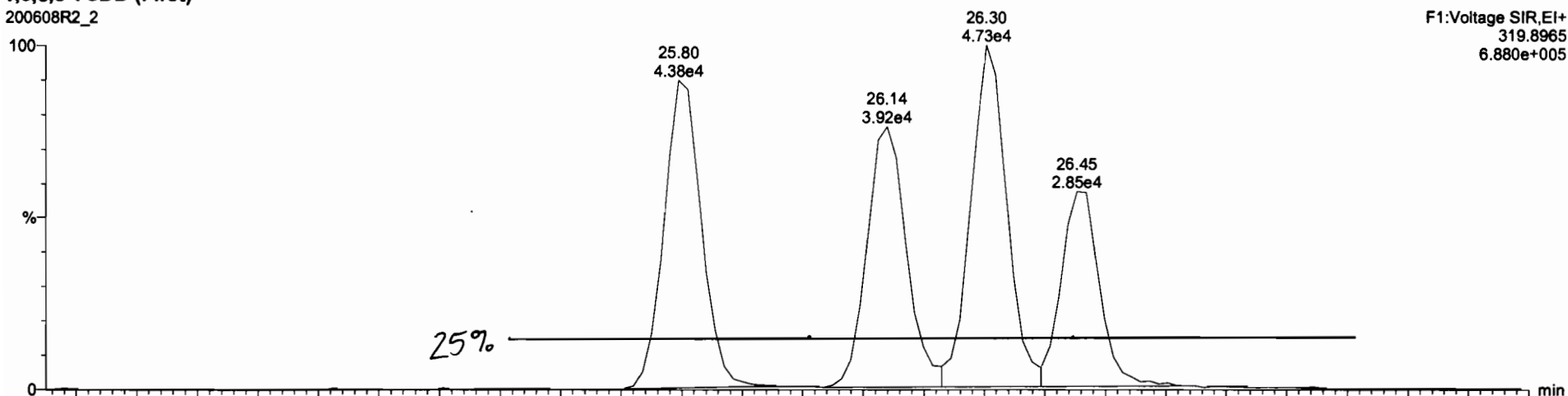
GRB 06/09/2020

Method: Untitled 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

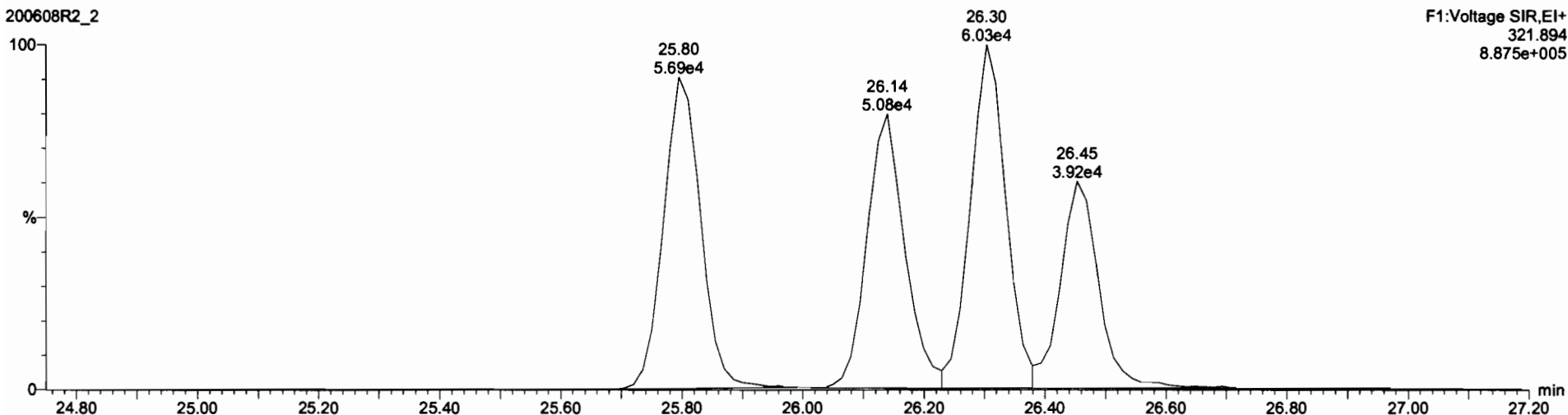
Name: 200608R2_2, Date: 09-Jun-2020, Time: 00:59:18, ID: ST200608R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200608R2_2



200608R2_2



Dataset: Untitled

Last Altered: Tuesday, June 09, 2020 07:30:07 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

Method: Untitled 01 Jun 2020 11:54:45

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

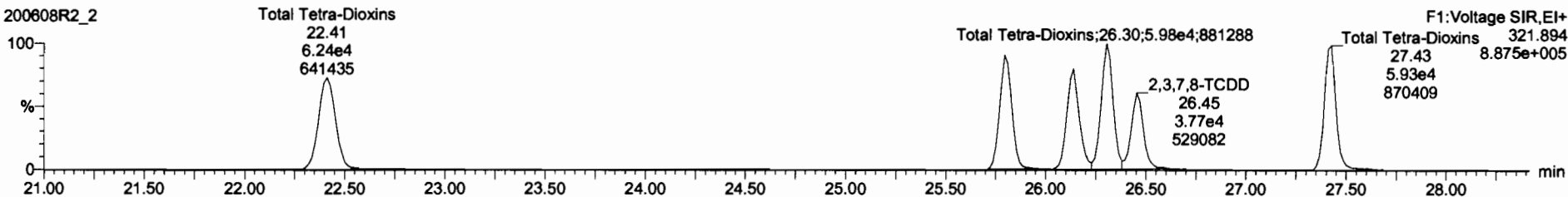
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2,3,7,8-TCDD

200608R2_2

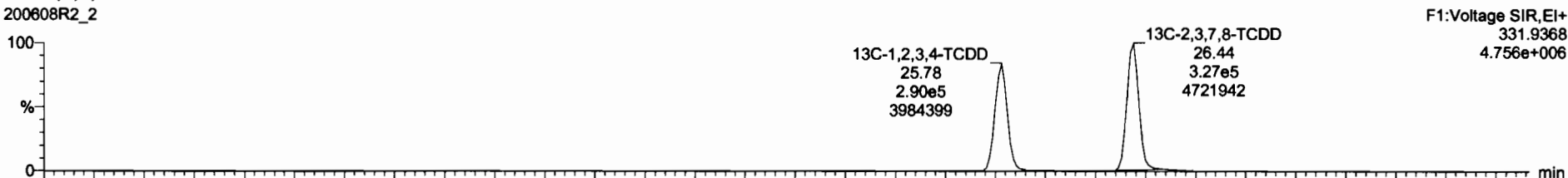


200608R2_2

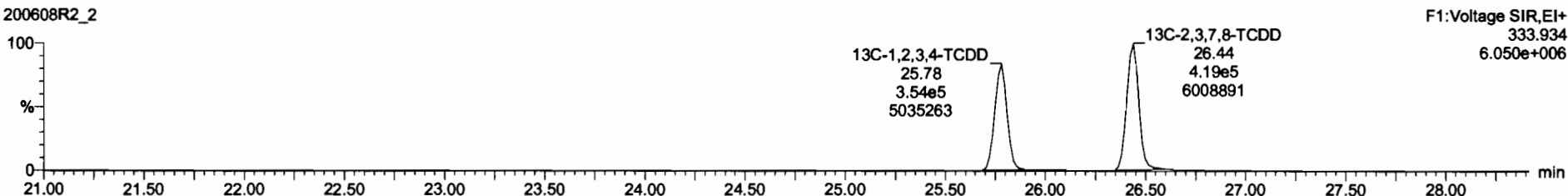


13C-2,3,7,8-TCDD

200608R2_2



200608R2_2



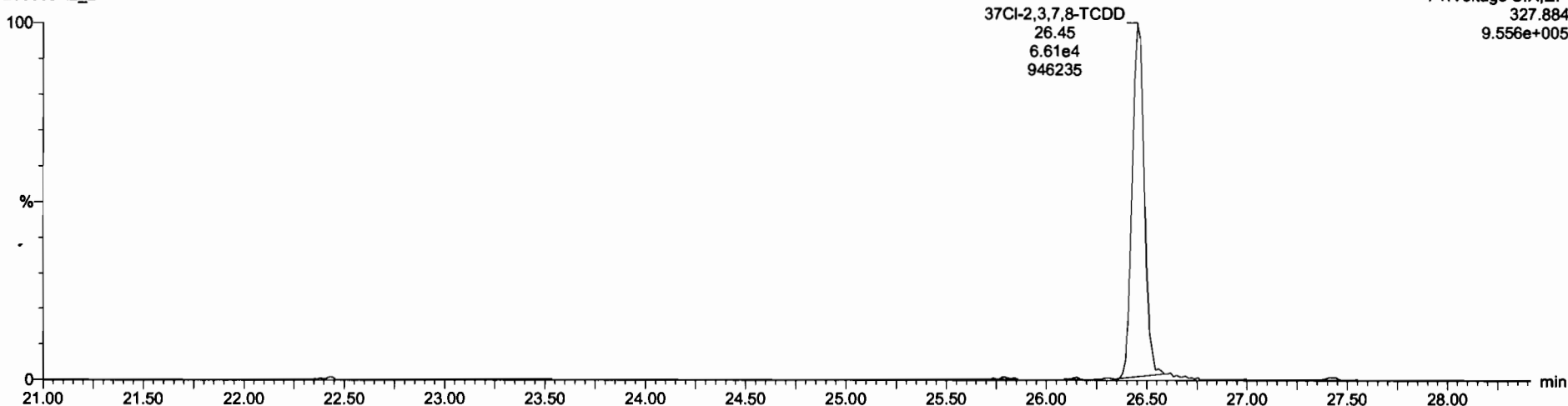
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Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

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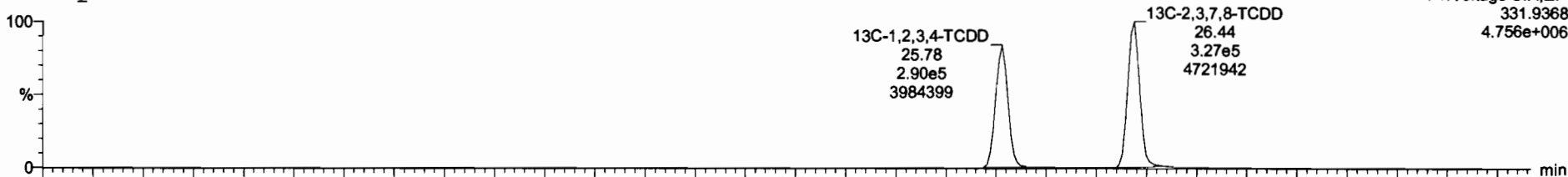
37Cl-2,3,7,8-TCDD

200608R2_2

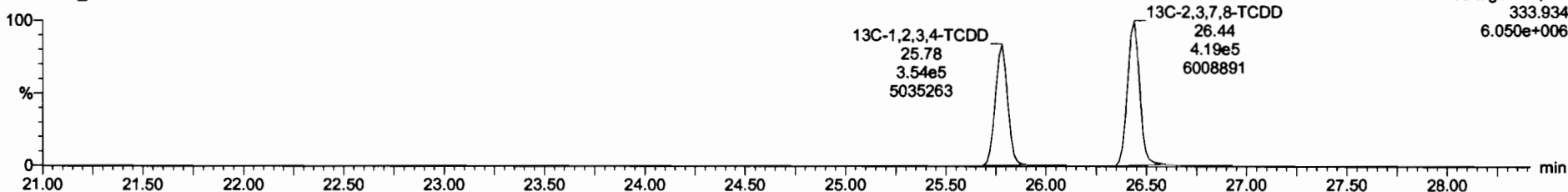


13C-1,2,3,4-TCDD

200608R2_2



200608R2_2



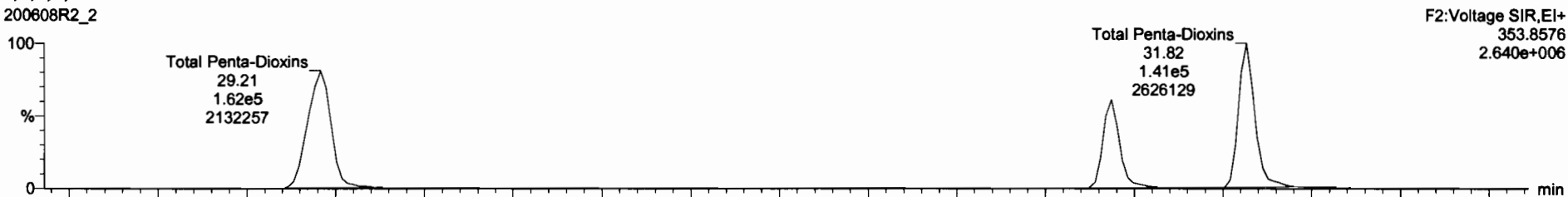
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Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

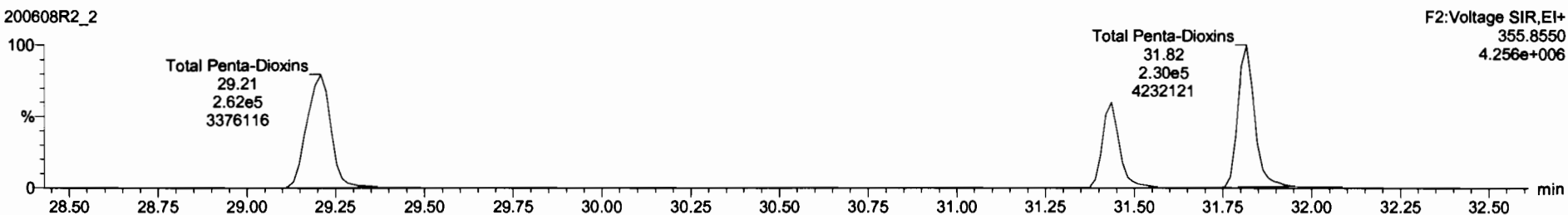
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1,2,3,7,8-PeCDD

200608R2_2

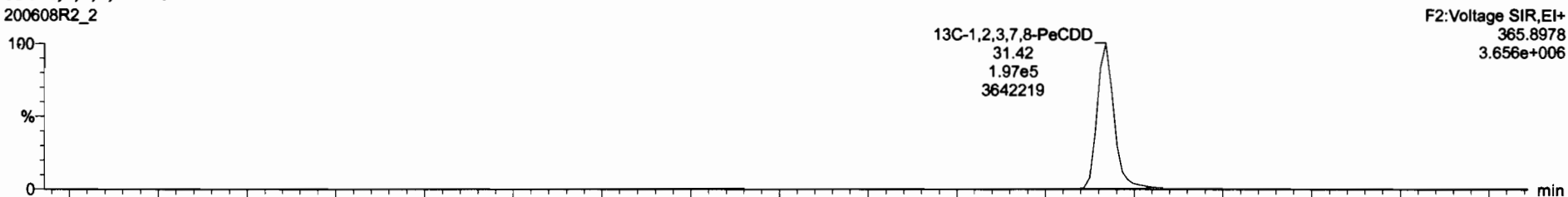


200608R2_2

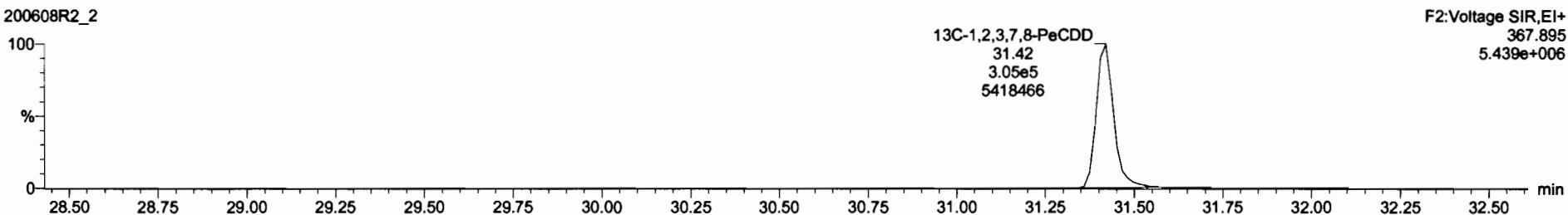


13C-1,2,3,7,8-PeCDD

200608R2_2



200608R2_2



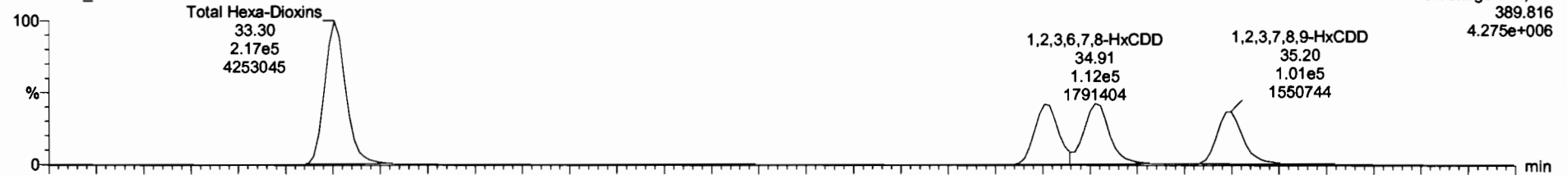
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Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

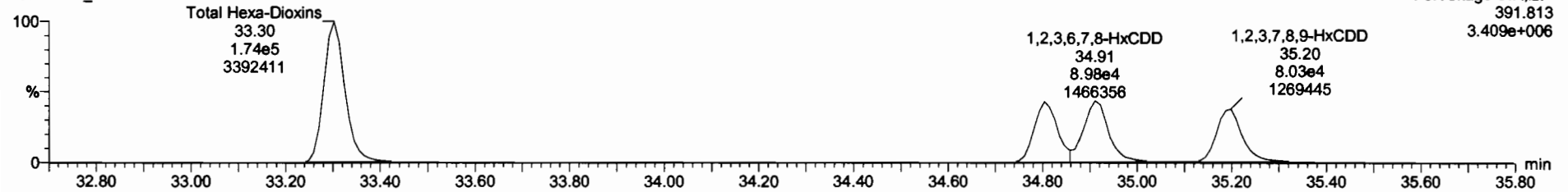
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1,2,3,4,7,8-HxCDD

200608R2_2

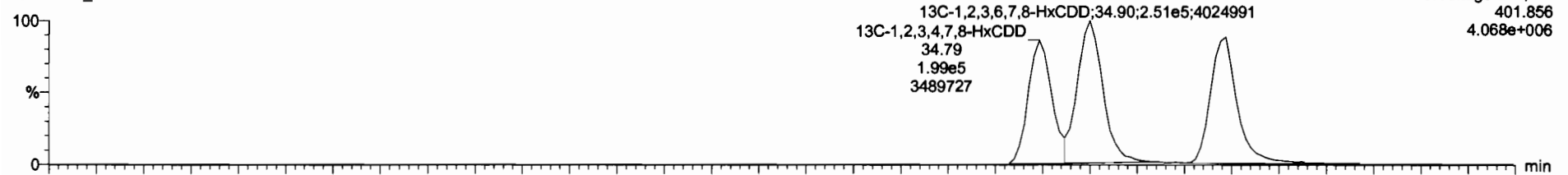


200608R2_2

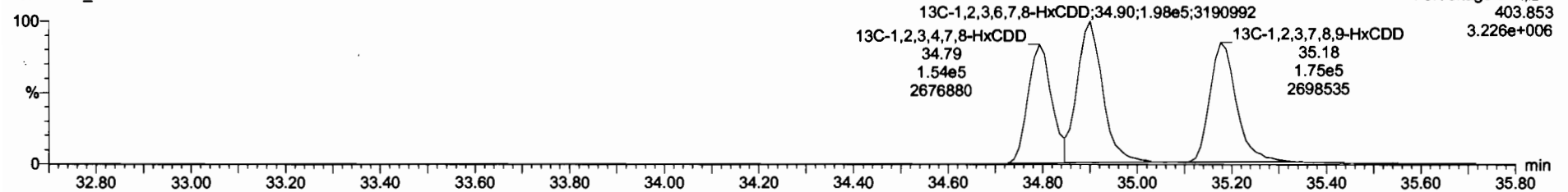


13C-1,2,3,4,7,8-HxCDD

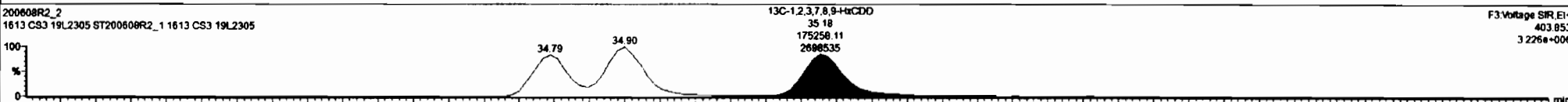
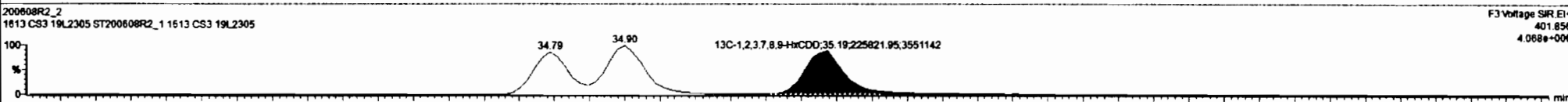
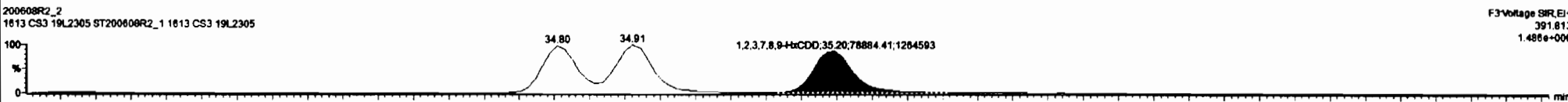
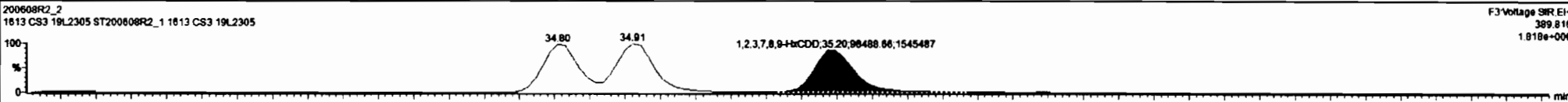
200608R2_2



200608R2_2



1	2,3,7,8-TCDD	8.62e4	7.48e5	0.77	0.78	NO	0.8883	28.47	28.45	NO	1.001	1.001	10.0	100	NO
2	1,2,3,7,8-PeCDD	2.24e5	5.02e5	0.83	0.82	NO	0.9081	31.44	31.44	NO	1.001	1.000	49.2	98.4	NO
3	1,2,3,4,7,8-HxCDD	1.84e5	3.54e5	1.24	1.25	NO	1.0334	34.80	34.80	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	2.02e5	4.48e5	1.24	1.25	NO	0.8823	34.90	34.91	NO	1.000	1.000	50.5	101	NO
6	1,2,3,4,6,7,8-HpCDD	1.34e5	3.11e5	1.04	1.00	NO	0.8538	38.74	38.73	NO	1.000	1.000	49.9	99.7	NO
7	OCDD	2.87e5	5.58e5	0.80	0.80	NO	0.9138	41.72	41.72	NO	1.000	1.000	105	105	NO
8	2,3,7,8-TCDF	7.71e4	1.82e5	0.77	0.74	NO	0.7510	25.57	25.56	NO	1.001	1.001	10.0	100	NO
9	1,2,3,7,8-PeCDF	3.58e5	8.01e5	1.55	1.50	NO	0.8825	30.14	30.14	NO	1.001	1.001	50.2	100	NO
10	2,3,4,7,8-PeCDF	3.98e5	7.88e5	1.55	1.57	NO	0.9348	31.15	31.13	NO	1.001	1.000	49.8	99.8	NO
11	1,2,3,4,7,8-HxCDF	2.30e5	5.08e5	1.24	1.19	NO	0.8845	33.82	33.83	NO	1.000	1.000	51.3	103	NO
12	1,2,3,6,7,8-HxCDF	2.64e5	5.88e5	1.24	1.20	NO	0.8882	34.05	34.06	NO	1.000	1.001	50.5	101	NO
13	2,3,4,6,7,8-HxCDF	2.45e5	5.11e5	1.24	1.20	NO	0.9341	34.88	34.64	NO	1.001	1.001	51.3	103	NO
14	1,2,3,7,8,9-HpCDF	1.83e5	4.86e5	1.24	1.21	NO	0.8787	35.54	35.56	NO	1.000	1.001	52.0	104	NO
18	1,2,3,4,6,7,8-HpCDF	1.73e5	3.77e5	1.04	1.02	NO	0.8734	37.34	37.32	NO	1.001	1.000	52.5	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.35e5	2.58e5	1.04	1.00	NO	1.9128	39.27	39.28	NO	1.000	1.000	52.0	104	NO
17	OCDF	2.78e5	6.78e5	0.80	0.87	NO	0.8085	41.91	41.91	NO	1.000	1.000	101	101	NO
18	13C-2,3,7,8-TCDD	7.48e5	6.44e5	0.77	0.78	NO	1.1563	28.46	28.44	NO	1.026	1.026	100	100	NO
19	13C-1,2,3,7,8-PeCDD	5.02e5	6.44e5	0.83	0.85	NO	0.8480	31.64	31.42	NO	1.227	1.219	91.8	91.8	NO
20	13C-1,2,3,4,7,8-HxCDD	3.54e5	5.04e5	1.24	1.29	NO	0.7780	34.80	34.79	NO	1.014	1.014	90.1	90.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.48e5	5.04e5	1.24	1.27	NO	1.0187	34.91	34.90	NO	1.017	1.017	87.6	87.6	NO



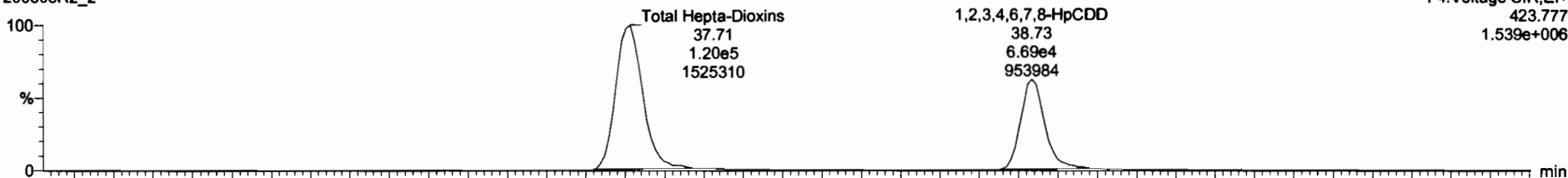
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Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

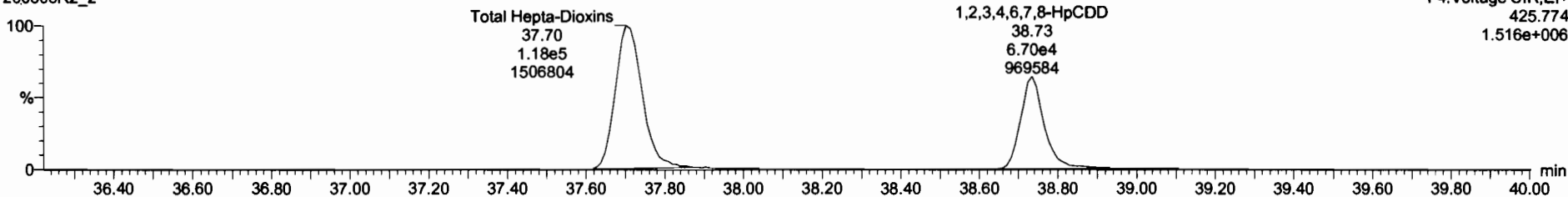
Name: 200608R2_2, Date: 09-Jun-2020, Time: 00:59:18, ID: ST200608R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200608R2_2

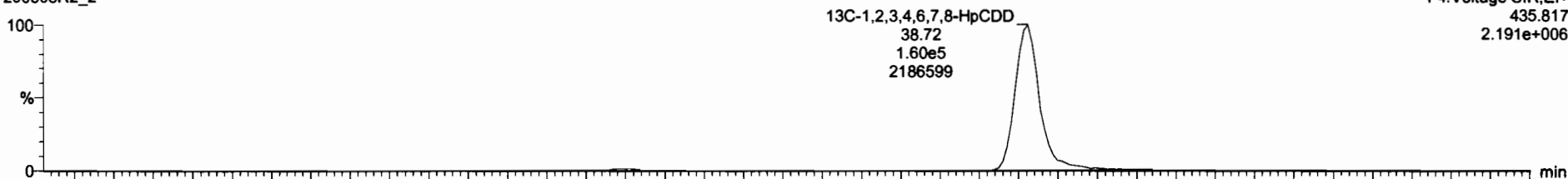


200608R2_2

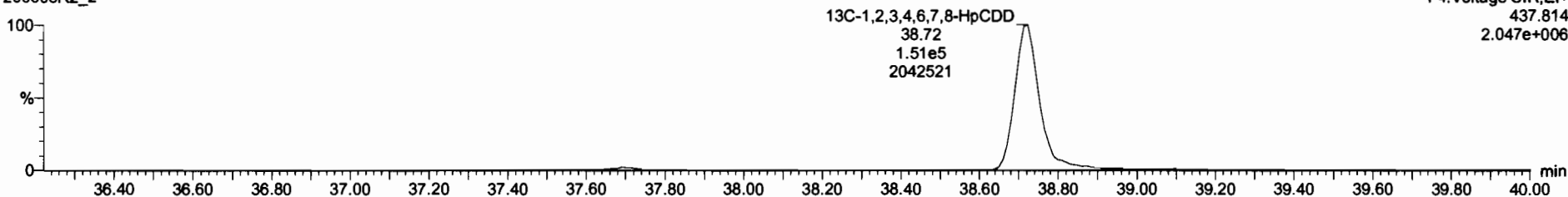


13C-1,2,3,4,6,7,8-HpCDD

200608R2_2



200608R2_2



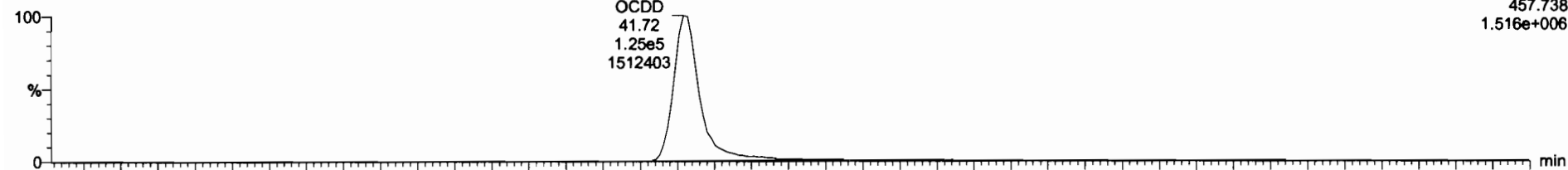
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Last Altered: Tuesday, June 09, 2020 07:30:07 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

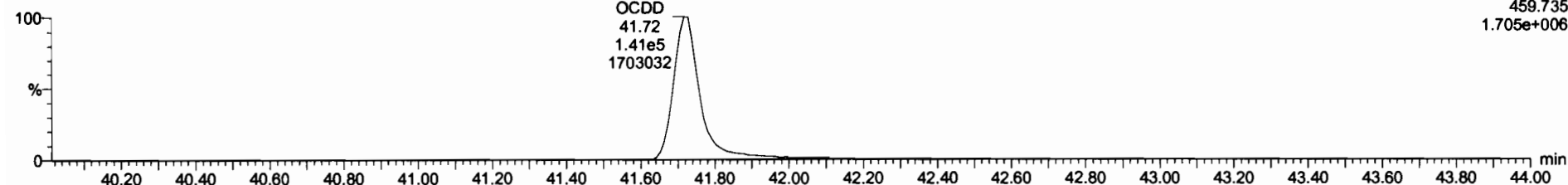
Name: 200608R2_2, Date: 09-Jun-2020, Time: 00:59:18, ID: ST200608R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDD

200608R2_2

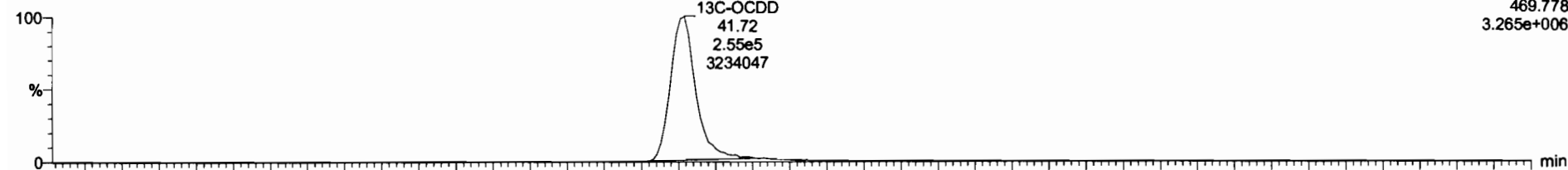


200608R2_2

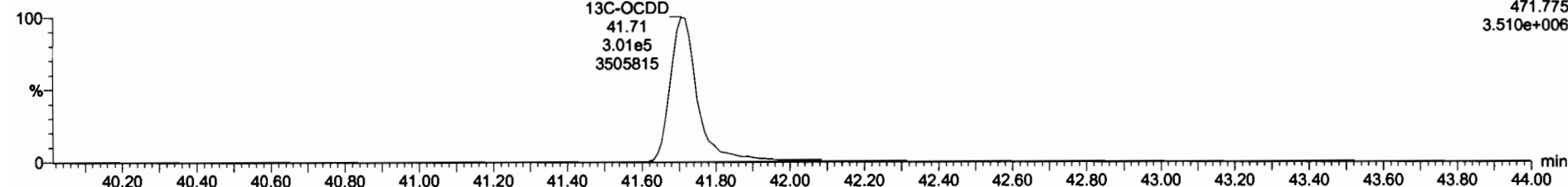


13C-OCDD

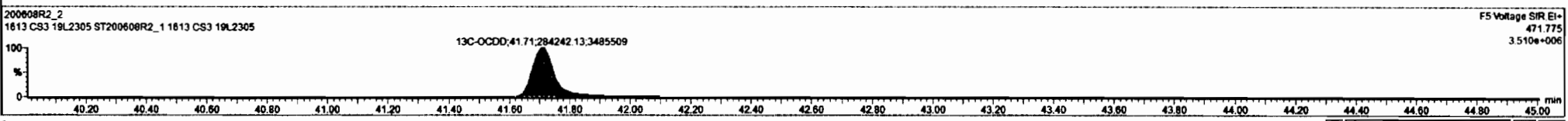
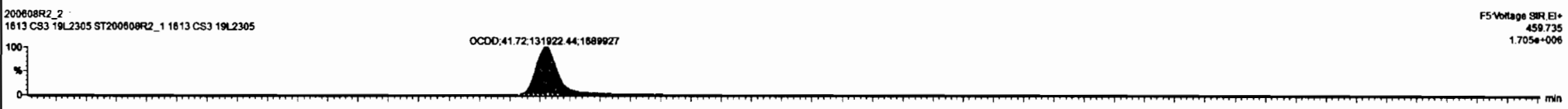
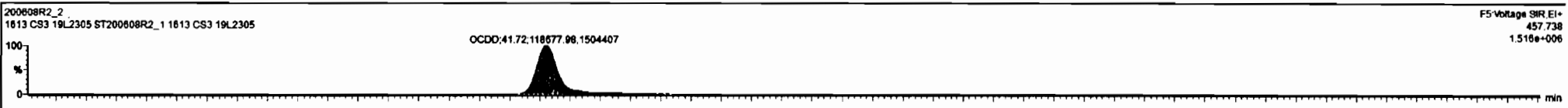
200608R2_2



200608R2_2



1	2,3,7,8-TCDD	6.62e4	7.46e5	0.77	0.78	NO	0.8863	26.47	26.45	NO	1.001	1.001	10.0	100	NO
2	1,2,3,7,8-PeCDD	2.24e5	5.82e5	0.83	0.82	NO	0.9081	31.44	31.44	NO	1.001	1.000	49.2	98.4	NO
3	1,2,3,4,7,8-HxCDD	1.84e5	3.54e5	1.24	1.25	NO	1.8334	34.80	34.80	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	2.02e5	4.49e5	1.24	1.25	NO	0.8823	34.90	34.91	NO	1.000	1.000	50.5	101	NO
5	1,2,3,7,8,9-HxCDD	1.77e5	4.01e5	1.24	1.25	NO	0.8889	35.20	35.20	NO	1.000	1.000	49.9	99.7	NO
6	1,2,3,4,6,7,8-HpCDD	1.34e5	3.11e5	1.04	1.00	NO	0.8638	38.74	38.73	NO	1.000	1.000	49.9	99.7	NO
8	2,3,7,8-TCDF	7.71e4	1.62e6	0.77	0.74	NO	0.7510	25.57	25.56	NO	1.001	1.001	10.0	100	NO
9	1,2,3,7,8-PeCDF	3.58e5	8.01e5	1.55	1.50	NO	0.8825	30.14	30.14	NO	1.001	1.001	50.2	100	NO
10	2,3,4,7,8-PeCDF	3.98e5	7.88e5	1.56	1.57	NO	0.9348	31.15	31.13	NO	1.001	1.000	49.8	99.6	NO
11	1,2,3,4,7,8-HxCDF	2.30e5	5.06e5	1.24	1.19	NO	0.8845	33.82	33.83	NO	1.000	1.000	51.5	103	NO
12	1,2,3,6,7,8-HxCDF	2.84e5	5.88e5	1.24	1.20	NO	0.8882	34.05	34.06	NO	1.000	1.001	50.5	101	NO
13	2,3,4,6,7,8-HxCDF	2.45e5	5.11e5	1.24	1.20	NO	0.9341	34.68	34.64	NO	1.001	1.001	51.3	103	NO
14	1,2,3,7,8,9-HxCDF	1.83e5	4.05e5	1.24	1.21	NO	0.8707	35.54	35.56	NO	1.000	1.001	52.0	104	NO
15	1,2,3,4,6,7,8-HpCDF	1.73e5	3.77e5	1.04	1.02	NO	0.8734	37.34	37.32	NO	1.001	1.000	52.0	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.35e5	2.58e5	1.04	1.00	NO	1.0128	39.27	39.28	NO	1.000	1.000	52.0	104	NO
17	OCDF	2.78e5	6.78e5	0.80	0.87	NO	0.8085	41.91	41.91	NO	1.000	1.000	101	101	NO
18	13C-2,3,7,8-TCDD	7.46e5	8.44e5	0.77	0.78	NO	1.1563	26.46	26.44	NO	1.026	1.026	100	100	NO
19	13C-1,2,3,7,8-PeCDD	5.02e5	8.44e5	0.83	0.85	NO	0.9480	31.64	31.42	NO	1.227	1.219	91.8	91.8	NO
20	13C-1,2,3,4,7,8-HxCDD	3.54e5	5.04e5	1.24	1.29	NO	0.7790	34.80	34.79	NO	1.014	1.014	90.1	90.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.49e5	5.04e5	1.24	1.27	NO	1.0187	34.91	34.90	NO	1.017	1.017	87.6	87.6	NO



Dataset: Untitled

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Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

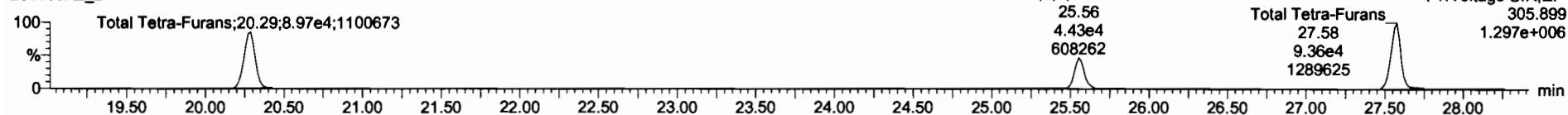
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2,3,7,8-TCDF

200608R2_2

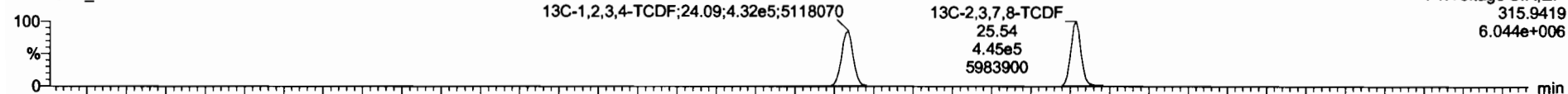


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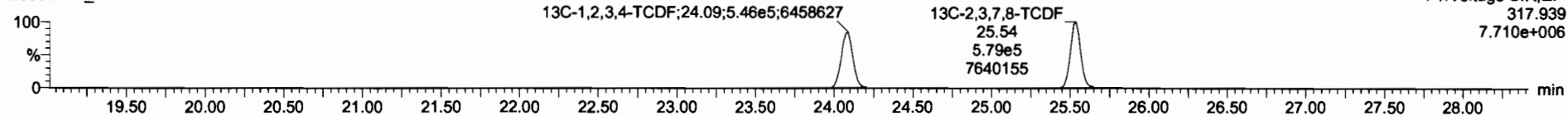


13C-2,3,7,8-TCDF

200608R2_2

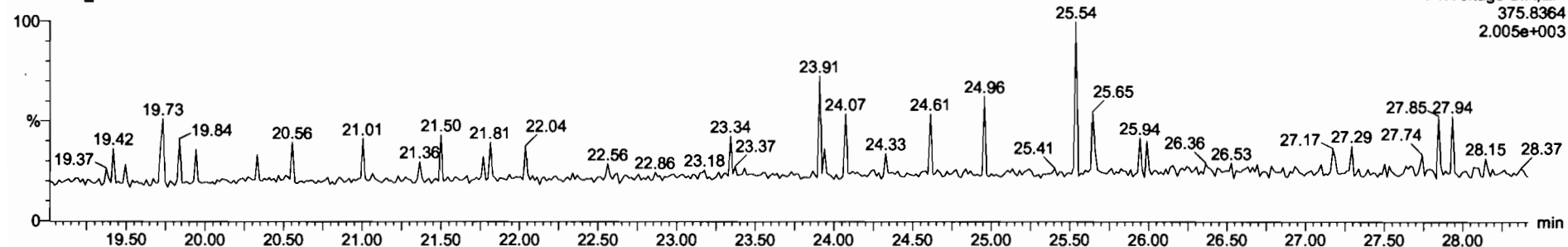


200608R2_2



DPE1

200608R2_2



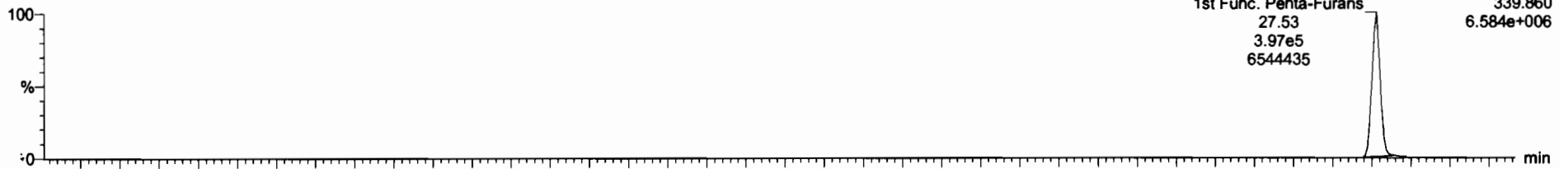
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Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

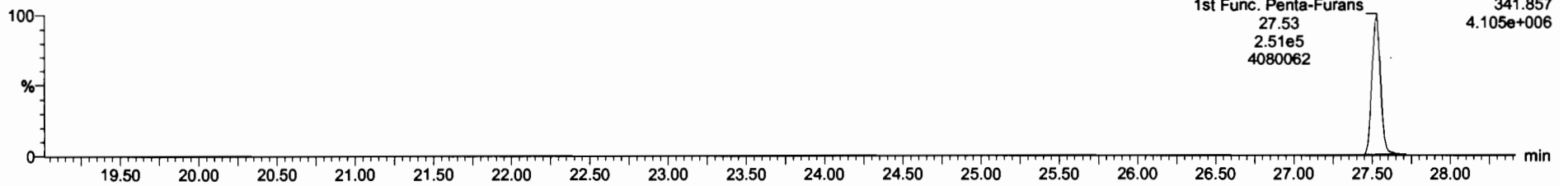
Name: 200608R2_2, Date: 09-Jun-2020, Time: 00:59:18, ID: ST200608R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200608R2_2

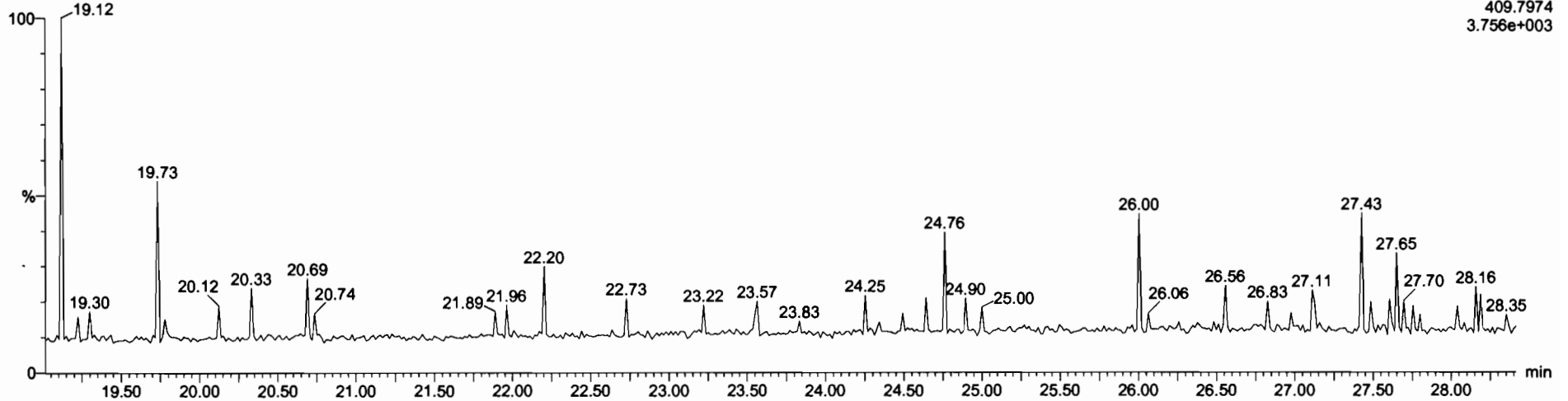


200608R2_2



DPE6

200608R2_2



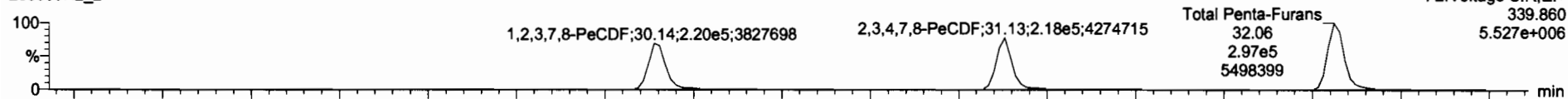
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Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

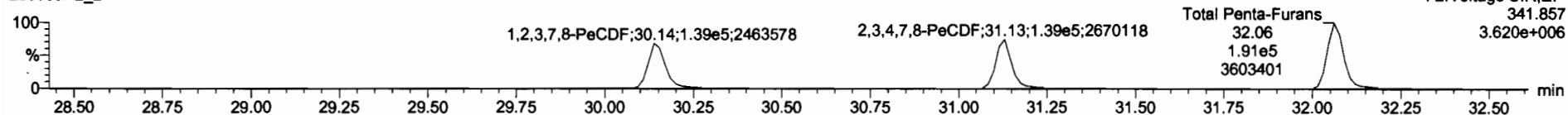
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1,2,3,7,8-PeCDF

200608R2_2

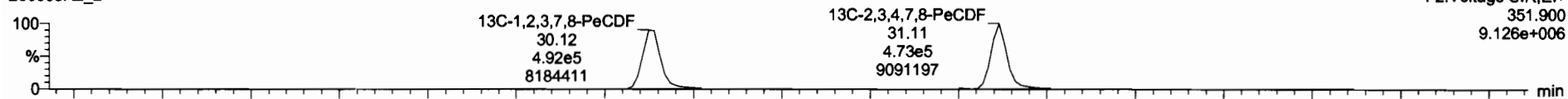


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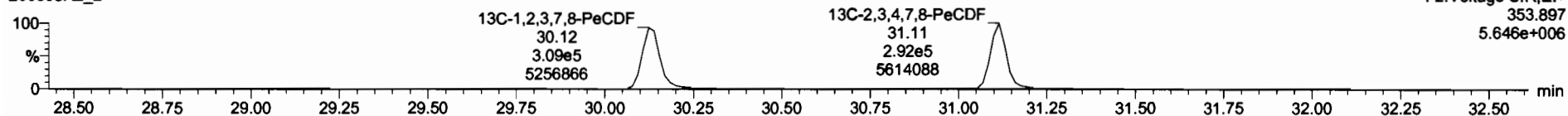


13C-1,2,3,7,8-PeCDF

200608R2_2

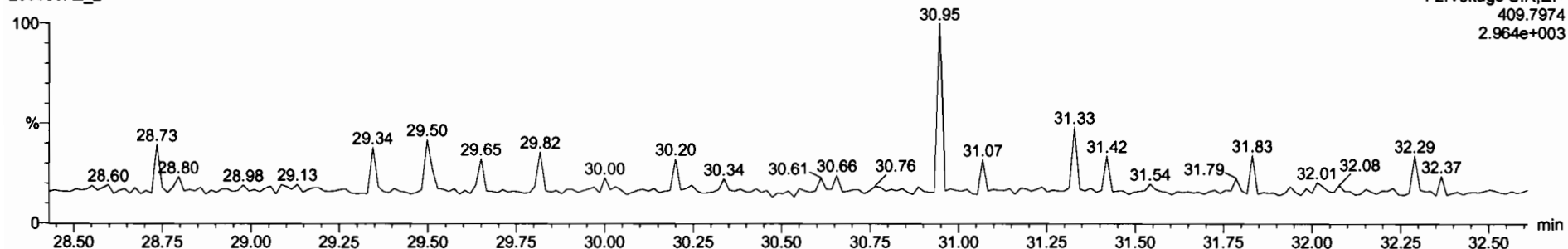


200608R2_2



DPE2

200608R2_2

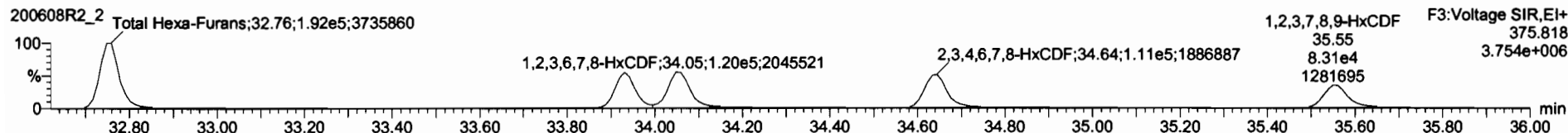
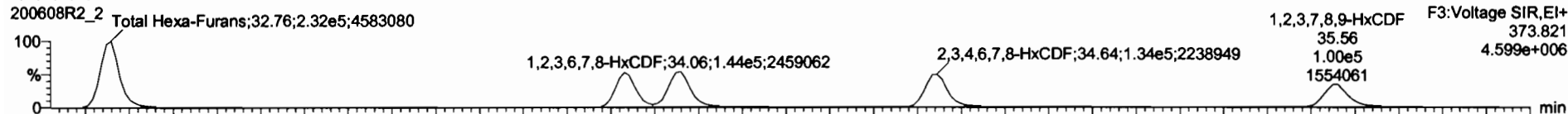


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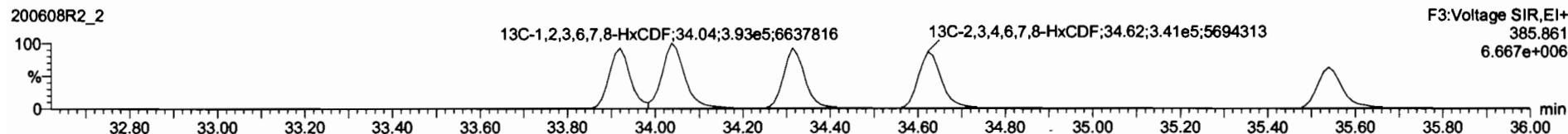
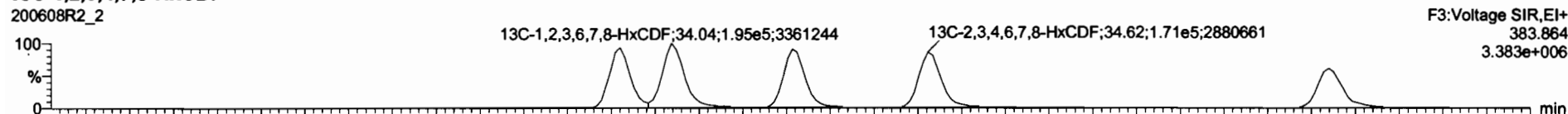
Last Altered: Tuesday, June 09, 2020 07:30:07 Pacific Daylight Time
Printed: Tuesday, June 09, 2020 07:30:24 Pacific Daylight Time

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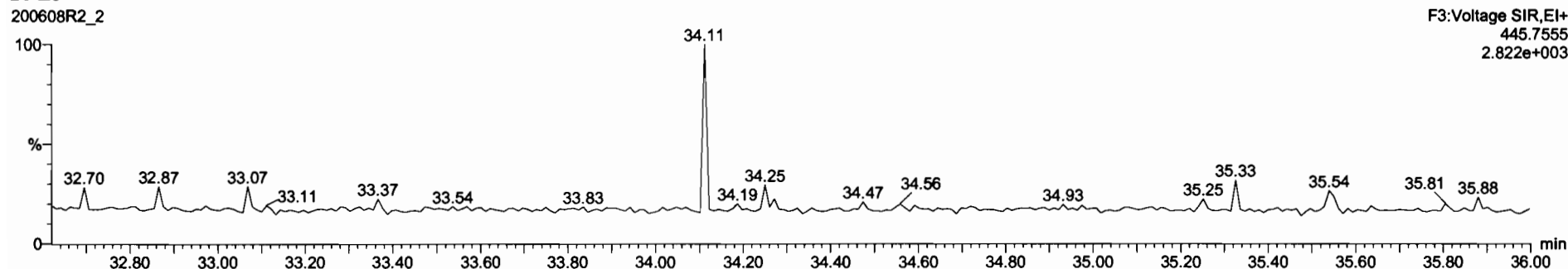
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: Untitled

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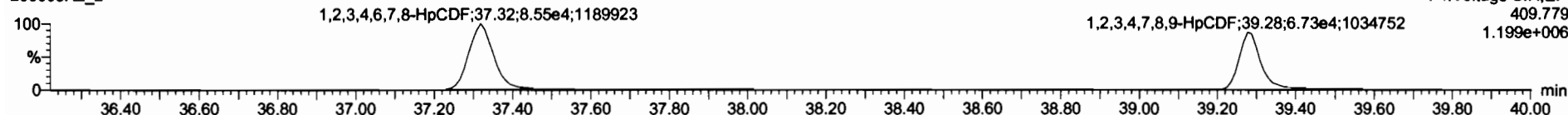
1,2,3,4,6,7,8-HpCDF

200608R2_2



F4:Voltage SIR,EI+
407.782
1.143e+006

200608R2_2



F4:Voltage SIR,EI+
409.779
1.199e+006

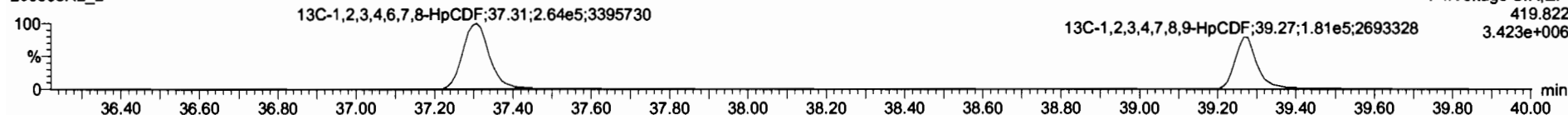
13C-1,2,3,4,6,7,8-HpCDF

200608R2_2



F4:Voltage SIR,EI+
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1.472e+006

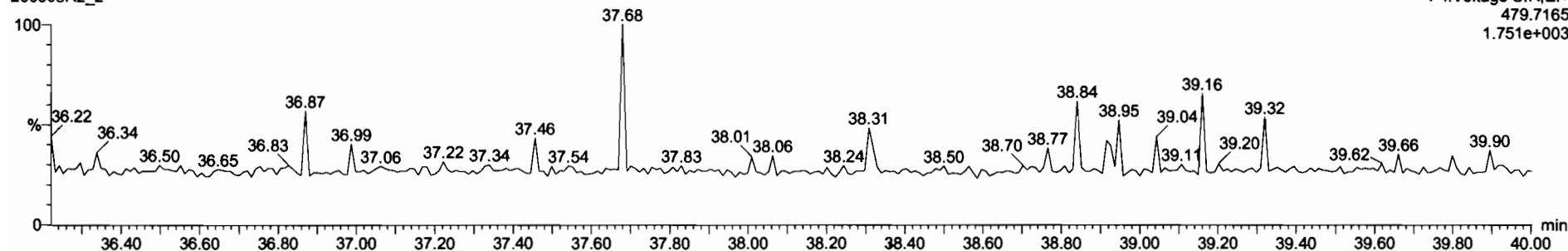
200608R2_2



F4:Voltage SIR,EI+
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3.423e+006

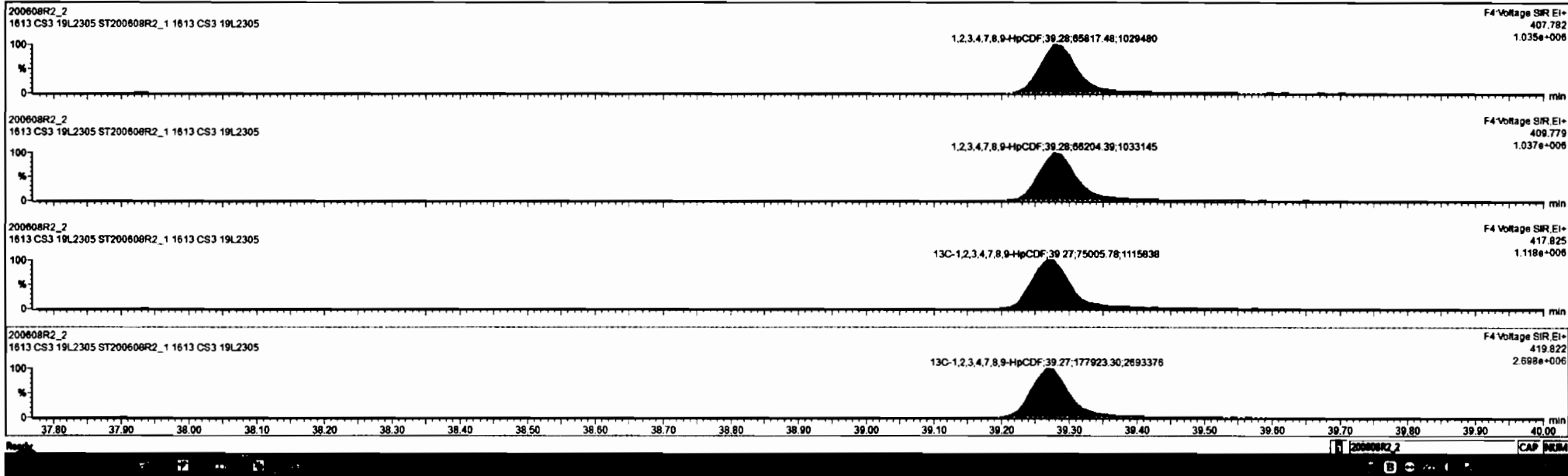
DPE4

200608R2_2



F4:Voltage SIR,EI+
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1.751e+003

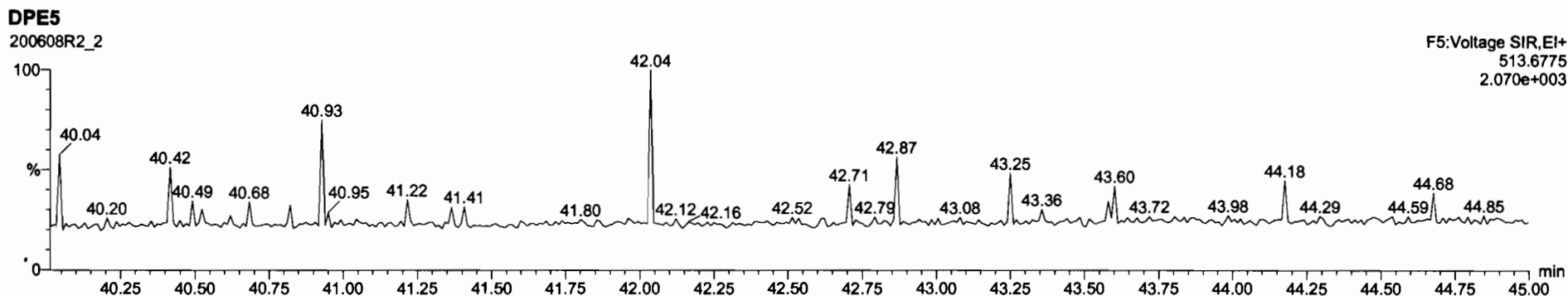
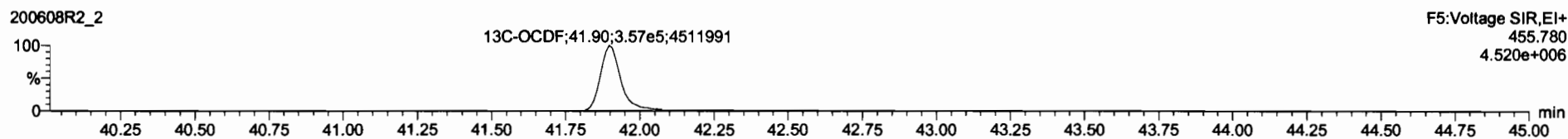
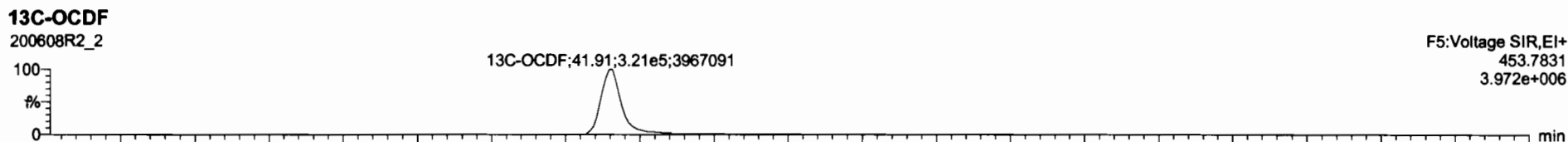
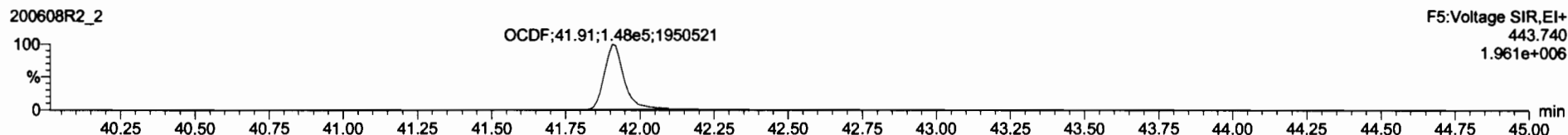
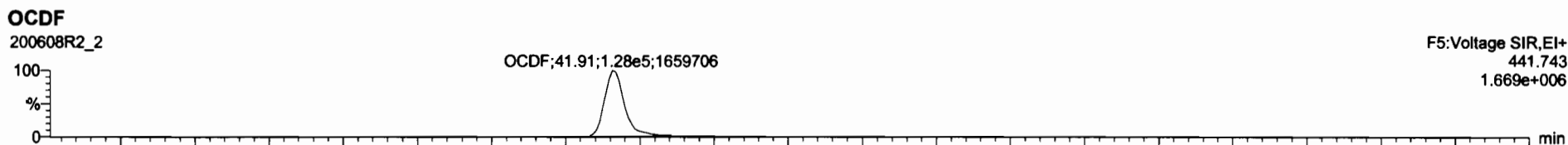
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2	1,2,3,7,8-PeCDD	2.24e5	5.82e5	0.83	0.82	NO	0.9081	31.44	31.44	NO	1.001	1.000	49.2	98.4	NO
3	1,2,3,4,7,8-HxCDD	1.84e5	3.54e5	1.24	1.25	NO	1.0334	34.80	34.80	NO	1.000	1.000	50.4	101	NO
4	1,2,3,6,7,8-HxCDD	2.02e5	4.49e5	1.24	1.25	NO	0.8823	34.90	34.91	NO	1.000	1.000	50.5	101	NO
5	1,2,3,7,8,9-HxCDD	1.77e5	4.91e5	1.24	1.25	NO	0.8889	35.20	35.20	NO	1.000	1.000	49.9	99.7	NO
6	1,2,3,4,6,7,8-HpCDD	1.34e5	3.11e5	1.94	1.00	NO	0.8839	38.74	38.73	NO	1.000	1.000	49.9	99.7	NO
7	OCDD	2.51e5	5.38e5	0.80	0.80	NC	0.9138	41.72	41.72	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	7.71e4	1.02e5	0.77	0.74	NO	0.7510	25.57	25.56	NO	1.001	1.001	10.0	100	NO
9	1,2,3,7,8-PeCDF	3.59e5	8.01e5	1.55	1.58	NO	0.8925	30.14	30.14	NO	1.001	1.001	50.2	100	NO
10	2,3,4,7,8-PeCDF	3.98e5	7.89e5	1.56	1.57	NO	0.9348	31.15	31.13	NO	1.001	1.000	49.8	99.8	NO
11	1,2,3,4,7,8-HxCDF	2.30e5	5.08e5	1.24	1.19	NO	0.8845	33.92	33.93	NO	1.000	1.000	51.5	103	NO
12	1,2,3,6,7,8-HxCDF	2.04e5	5.88e5	1.24	1.20	NO	0.8882	34.05	34.08	NO	1.000	1.001	50.5	101	NO
13	2,3,4,6,7,8-HxCDF	2.45e5	5.11e5	1.24	1.20	NO	0.9341	34.88	34.84	NO	1.001	1.001	51.3	103	NO
14	1,2,3,7,8,9-HxCDF	1.83e5	4.05e5	1.24	1.21	NO	0.8707	35.54	35.56	NO	1.000	1.001	52.0	104	NO
15	1,2,3,4,6,7,8-HpCDF	1.73e5	3.77e5	1.94	1.02	NO	0.8734	37.34	37.32	NO	1.001	1.000	52.5	105	NO
17	OCDF	2.78e5	6.79e5	0.80	0.87	NO	0.8895	41.91	41.91	NO	1.000	1.000	101	101	NO
18	13C-2,3,7,8-TCDD	7.46e5	8.44e5	0.77	0.78	NO	1.1563	28.46	28.44	NO	1.026	1.026	100	100	NO
19	13C-1,2,3,7,8-PeCDD	5.02e5	8.44e5	0.83	0.85	NO	0.8480	31.64	31.42	NO	1.227	1.219	91.8	91.8	NO
20	13C-1,2,3,4,7,8-HxCDD	3.54e5	5.04e5	1.24	1.29	NO	0.7790	34.80	34.79	NO	1.014	1.014	90.1	90.1	NO
21	13C-1,2,3,6,7,8-HxCDD	4.49e5	5.94e5	1.24	1.27	NO	1.0167	34.91	34.90	NO	1.017	1.017	87.6	87.6	NO



Dataset: Untitled

Last Altered: Tuesday, June 09, 2020 07:30:07 Pacific Daylight Time
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Name: 200608R2_2, Date: 09-Jun-2020, Time: 00:59:18, ID: ST200608R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



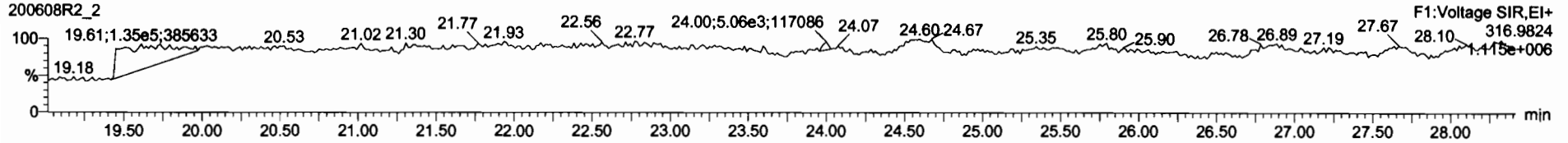
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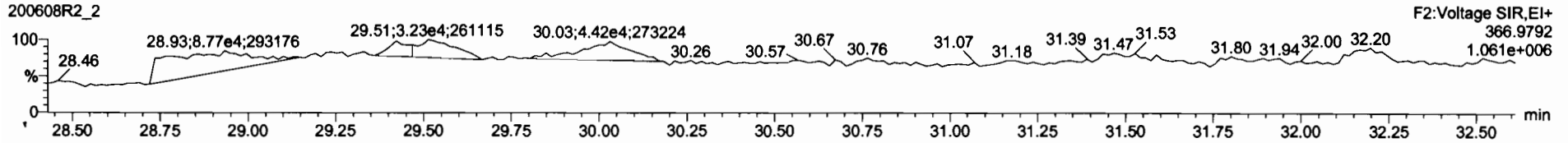
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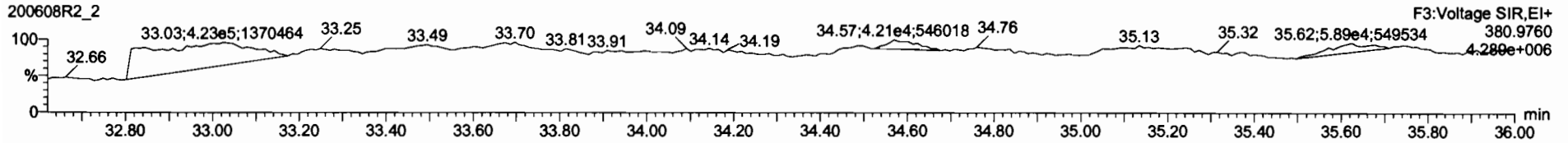
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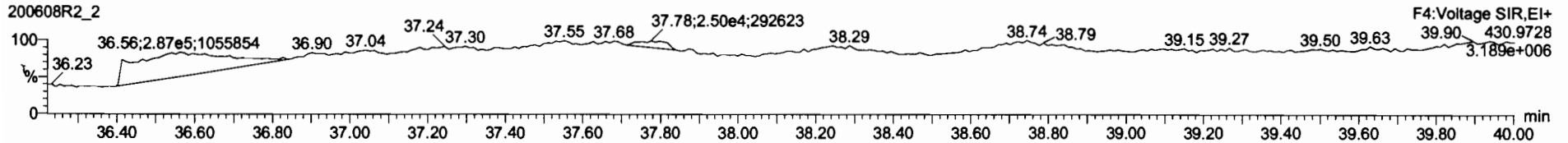
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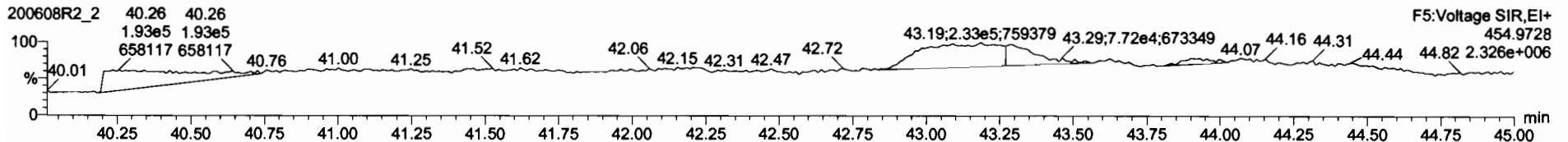
PFK3



PFK4

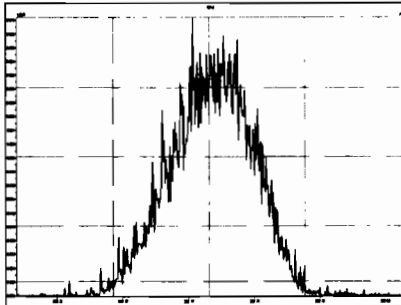


PFK5

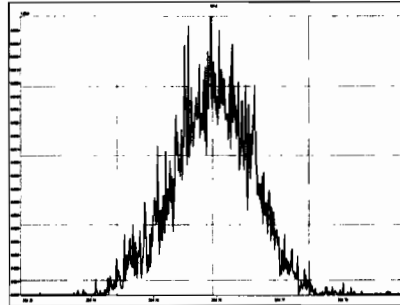


Printed: Tuesday, June 09, 2020 09:36:46 Pacific Daylight Time

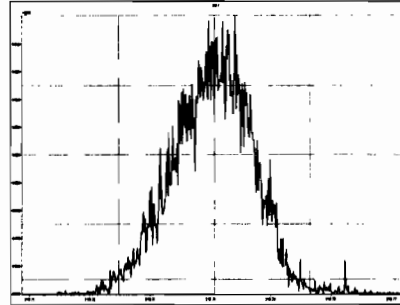
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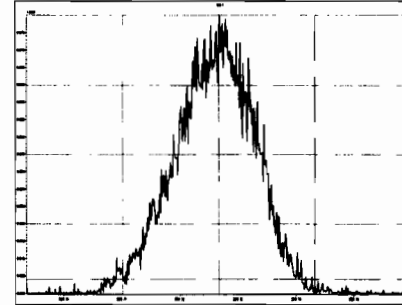
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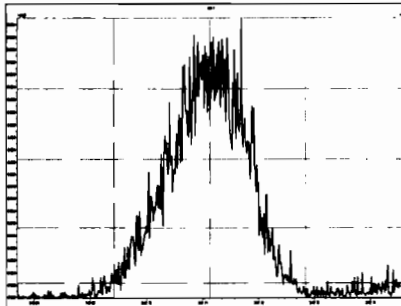
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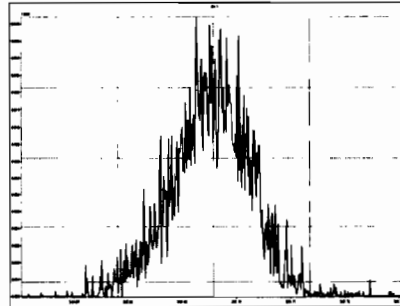
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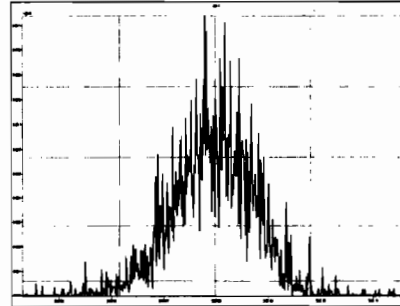
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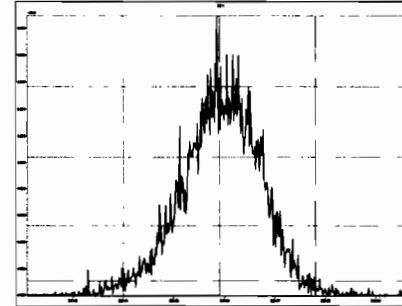
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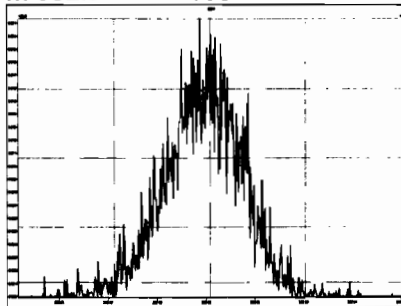
M 366.9792 R 13079



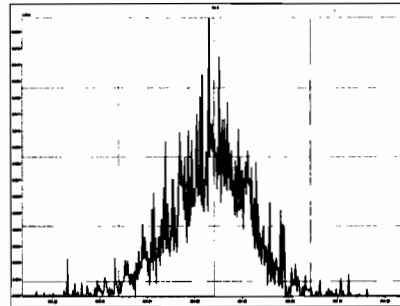
M 380.9760 R 11876



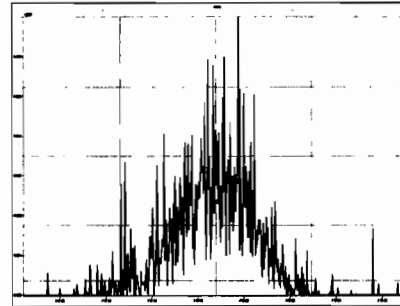
M 392.9760 R 13029



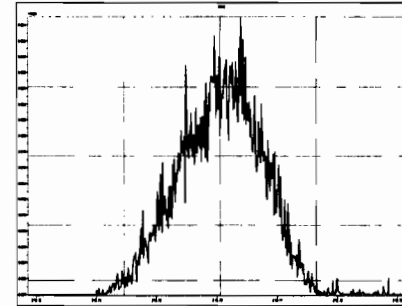
M 404.9760 R 13088



M 416.9760 R 18561

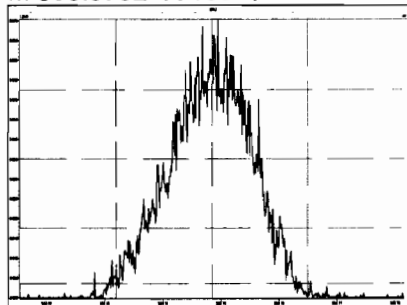


M 318.9792 R 11043

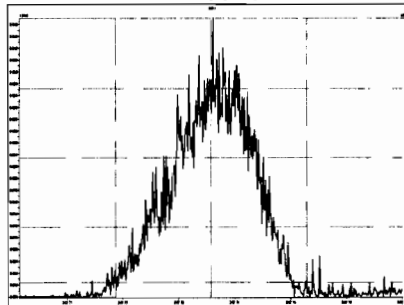


Printed: Tuesday, June 09, 2020 09:36:46 Pacific Daylight Time

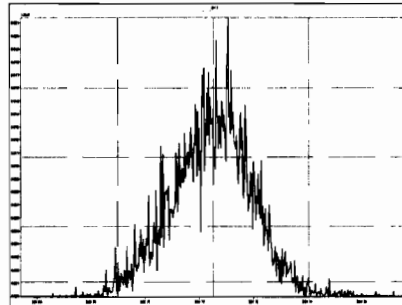
M 330.9792 R 10869



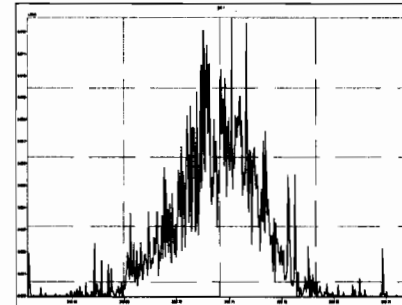
M 342.9792 R 10940



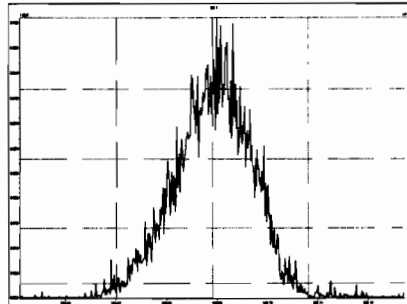
M 354.9792 R 11792



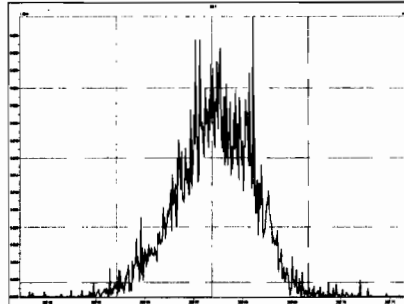
M 366.9792 R 11290



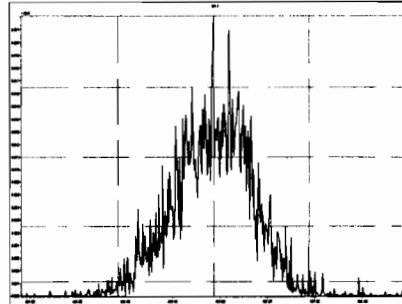
M 380.9760 R 11354



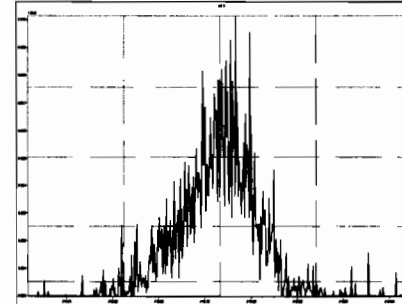
M 392.9760 R 12194



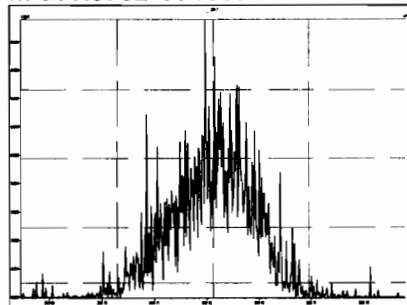
M 404.9760 R 12501



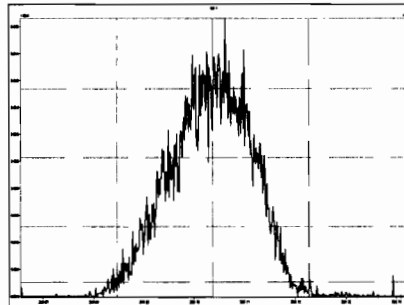
M 416.9760 R 14066



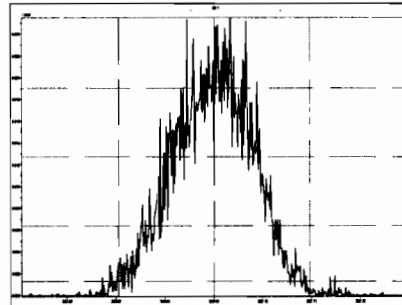
M 366.9792 R 13871



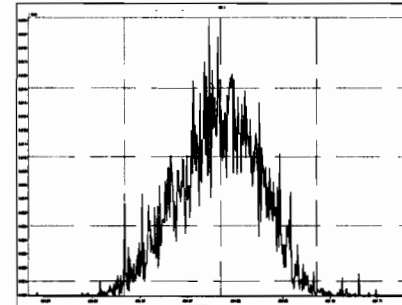
M 380.9760 R 11261



M 392.9760 R 11482

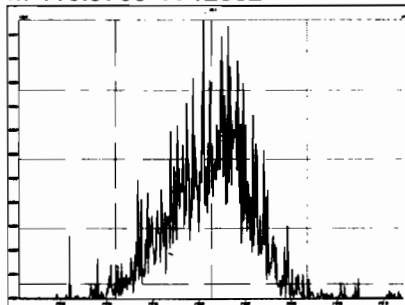


M 404.9760 R 12087

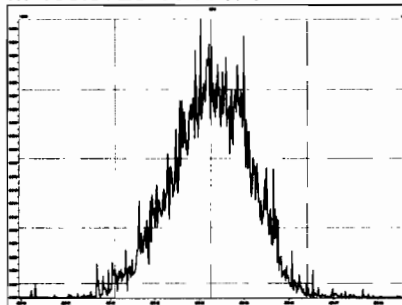


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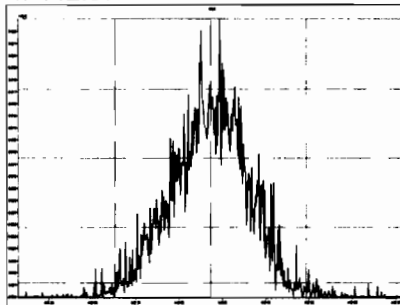
M 416.9760 R 12582



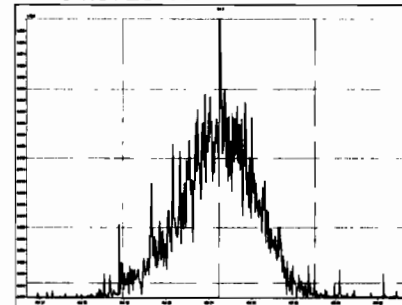
M 430.9728 R 11471



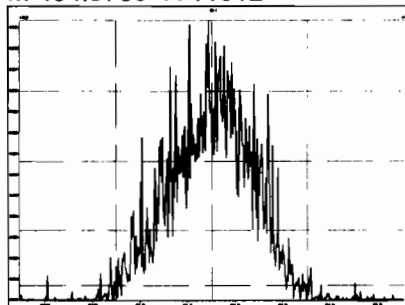
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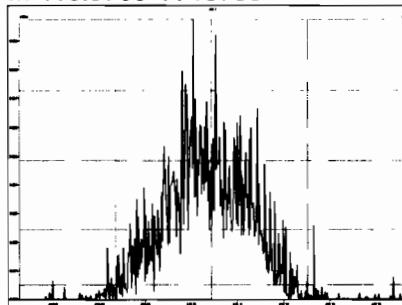
M 454.9728 R 13160



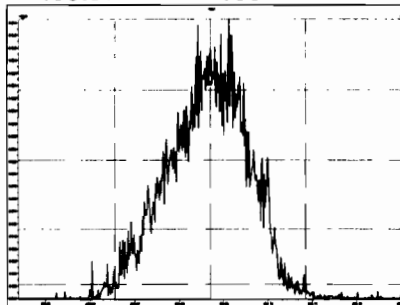
M 404.9760 R 11312



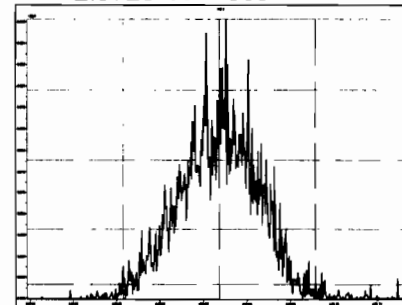
M 416.9760 R 13753



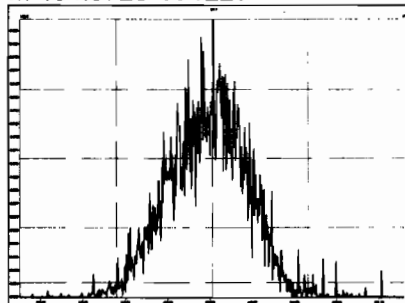
M 430.9728 R 11163



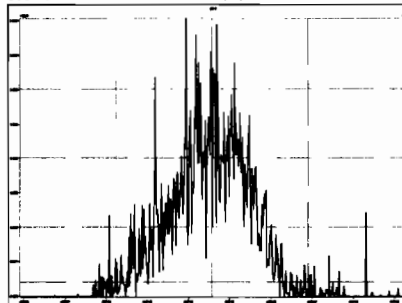
M 442.9728 R 11569



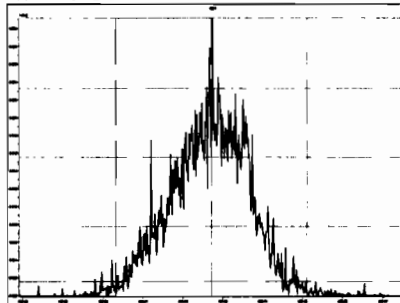
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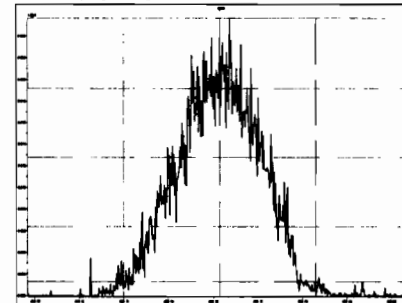
M 466.9728 R 15957



M 480.9696 R 12345

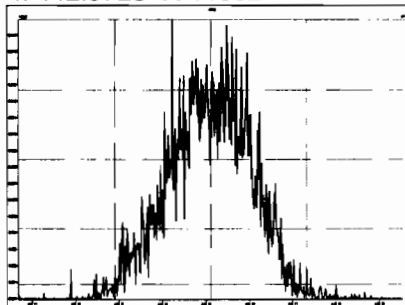


M 430.9728 R 11600

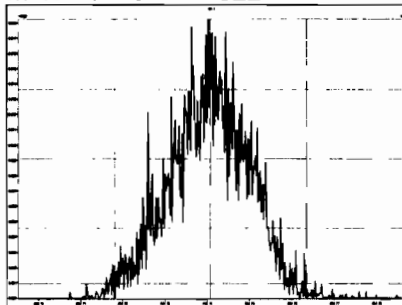


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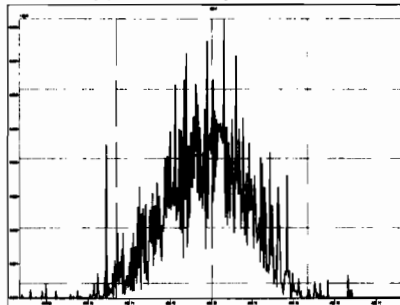
M 442.9728 R 11662



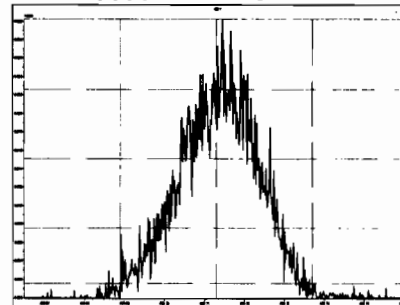
M 454.9728 R 12322



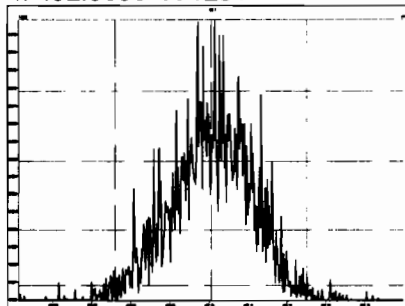
M 466.9728 R 12577



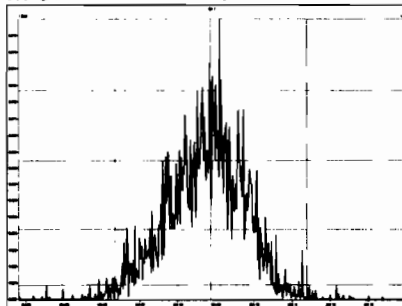
M 480.9696 R 12078



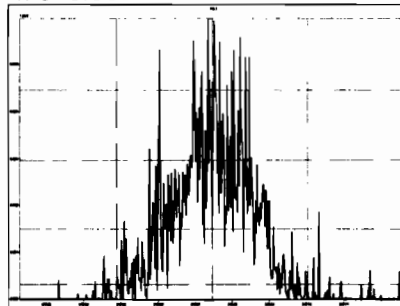
M 492.9696 R 12811



M 504.9696 R 13561



M 516.9697 R 15163



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200609R2-1

Reviewed By: C106/10/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox"/> <u>NA</u>	
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours	<input type="checkbox"/> <u>NA</u>	
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	<u>GRB</u>	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>V</u>			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> <u>(Y)</u>	<input type="checkbox"/> <u>N</u>			
- Bottle position verified?	<input type="checkbox"/> <u>GRB</u>	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\200609R2\200609R2-2.qld
 Last Altered: Wednesday, June 10, 2020 07:25:53 Pacific Daylight Time
 Printed: Wednesday, June 10, 2020 07:26:39 Pacific Daylight Time

GRB 06/10/2020
C1006/10/2020

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

Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	7.46e4	8.61e5	0.77	NO	0.888	26.50	26.48	NO	1.001	1.001	9.7451	97.5	NO
2	2 1,2,3,7,8-PeCDD	2.42e5	5.66e5	0.62	NO	0.908	31.46	31.45	NO	1.001	1.000	47.057	94.1	NO
3	3 1,2,3,4,7,8-HxCDD	1.87e5	3.61e5	1.23	NO	1.03	34.83	34.84	NO	1.000	1.001	49.942	99.9	NO
4	4 1,2,3,6,7,8-HxCDD	2.05e5	4.86e5	1.22	NO	0.892	34.92	34.94	NO	1.000	1.001	47.184	94.4	NO
5	5 1,2,3,7,8,9-HxCDD	1.80e5	4.21e5	1.24	NO	0.887	35.22	35.22	NO	1.000	1.000	48.173	96.3	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.24e5	2.99e5	1.00	NO	0.864	38.76	38.77	NO	1.000	1.001	48.040	96.1	NO
7	7 OCDD	2.36e5	5.19e5	0.90	NO	0.914	41.74	41.76	NO	1.000	1.001	99.439	99.4	NO
8	8 2,3,7,8-TCDF	7.75e4	1.09e6	0.71	NO	0.751	25.60	25.60	NO	1.001	1.001	9.5079	95.1	NO
9	9 1,2,3,7,8-PeCDF	3.64e5	8.51e5	1.58	NO	0.893	30.17	30.17	NO	1.001	1.001	47.842	95.7	NO
10	10 2,3,4,7,8-PeCDF	3.67e5	8.14e5	1.58	NO	0.935	31.18	31.15	NO	1.001	1.000	48.261	96.5	NO
11	11 1,2,3,4,7,8-HxCDF	2.18e5	4.89e5	1.23	NO	0.884	33.94	33.96	NO	1.000	1.001	50.442	101	NO
12	12 1,2,3,6,7,8-HxCDF	2.54e5	5.62e5	1.21	NO	0.889	34.08	34.08	NO	1.000	1.000	50.760	102	NO
13	13 2,3,4,6,7,8-HxCDF	2.33e5	4.95e5	1.21	NO	0.934	34.69	34.67	NO	1.001	1.000	50.450	101	NO
14	14 1,2,3,7,8,9-HxCDF	1.68e5	3.87e5	1.22	NO	0.871	35.57	35.58	NO	1.000	1.000	49.939	99.9	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.55e5	3.50e5	0.97	NO	0.873	37.38	37.35	NO	1.001	1.000	50.875	102	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.12e5	2.25e5	0.99	NO	1.01	39.31	39.31	NO	1.000	1.000	49.295	98.6	NO
17	17 OCDF	2.35e5	5.95e5	0.87	NO	0.806	41.93	41.95	NO	1.000	1.001	98.166	98.2	NO
18	18 13C-2,3,7,8-TCDD	8.61e5	7.14e5	0.79	NO	1.16	26.49	26.47	NO	1.026	1.026	104.26	104	NO
19	19 13C-1,2,3,7,8-PeCDD	5.66e5	7.14e5	0.62	NO	0.849	31.67	31.44	NO	1.227	1.218	93.361	93.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.61e5	4.96e5	1.26	NO	0.779	34.83	34.81	NO	1.014	1.014	93.619	93.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.86e5	4.96e5	1.28	NO	1.02	34.94	34.92	NO	1.017	1.017	96.503	96.5	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.21e5	4.96e5	1.26	NO	0.903	35.22	35.21	NO	1.025	1.025	94.048	94.0	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.99e5	4.96e5	1.04	NO	0.689	38.74	38.74	NO	1.128	1.128	87.565	87.6	NO
24	24 13C-OCDD	5.19e5	4.96e5	0.90	NO	0.652	41.76	41.74	NO	1.216	1.215	160.68	80.3	NO
25	25 13C-2,3,7,8-TCDF	1.09e6	1.03e6	0.77	NO	1.06	25.53	25.57	NO	0.989	0.991	99.488	99.5	NO
26	26 13C-1,2,3,7,8-PeCDF	8.51e5	1.03e6	1.61	NO	0.838	30.06	30.15	NO	1.165	1.168	98.620	98.6	NO
27	27 13C-2,3,4,7,8-PeCDF	8.14e5	1.03e6	1.58	NO	0.817	31.01	31.15	NO	1.202	1.207	96.756	96.8	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.89e5	4.96e5	0.50	NO	1.01	33.96	33.94	NO	0.989	0.988	97.871	97.9	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.62e5	4.96e5	0.51	NO	1.17	34.09	34.07	NO	0.992	0.992	97.134	97.1	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.95e5	4.96e5	0.50	NO	1.02	34.66	34.65	NO	1.009	1.009	97.699	97.7	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.87e5	4.96e5	0.51	NO	0.860	35.56	35.57	NO	1.035	1.036	90.767	90.8	NO

Dataset: U:\VG12.PRO\Results\200609R2\200609R2-2.qld

Last Altered: Wednesday, June 10, 2020 07:25:53 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 07:26:39 Pacific Daylight Time

Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.50e5	4.96e5	0.42	NO	0.774	37.31	37.34	NO	1.086	1.087	91.058	91.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.25e5	4.96e5	0.42	NO	0.521	39.34	39.31	NO	1.145	1.145	87.056	87.1	NO
34	34 13C-OCDF	5.95e5	4.96e5	0.85	NO	0.746	41.93	41.93	NO	1.221	1.221	160.86	80.4	NO
35	35 37Cl-2,3,7,8-TCDD	8.08e4	7.14e5			1.04	26.52	26.48	NO	1.028	1.026	10.911	109	NO
36	36 13C-1,2,3,4-TCDD	7.14e5	7.14e5	0.78	NO	1.00	25.89	25.81	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.03e6	1.03e6	0.78	NO	1.00	24.36	24.12	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.96e5	4.96e5	0.50	NO	1.00	34.42	34.35	NO	1.000	1.000	100.00	100	YES

Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 12:00:12 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 12:00:16 Pacific Daylight Time

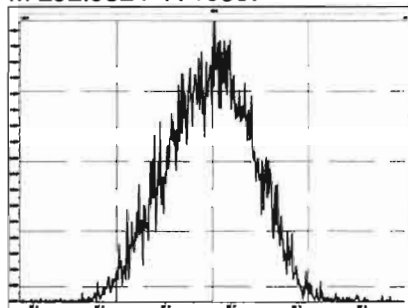
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

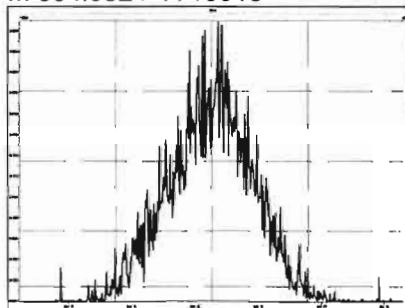
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1	200609R2_1	SOLVENT BLANK	09-Jun-20	23:28:55
2	200609R2_2	ST200609R2_1 1613 CS3 19L2305	10-Jun-20	00:15:10
3	200609R2_3	SOLVENT BLANK	10-Jun-20	01:01:24
4	200609R2_4	2001050-01 PDI-FB-2005121245 1.0098	10-Jun-20	01:47:37
5	200609R2_5	2001050-02 PDI-RB-2005121245 0.9942	10-Jun-20	02:33:53
6	200609R2_6	2001014-01 2535691 0.9812	10-Jun-20	03:20:08
7	200609R2_7	2001019-01 EFF-001 Composite 0.9873	10-Jun-20	04:06:21
8	200609R2_8	2001019-02 RSW-001 1.0011	10-Jun-20	04:52:37
9	200609R2_9	2001021-01 LU03271 0.8867	10-Jun-20	05:38:53
10	200609R2_10	2001023-01 Ads C 0.9995	10-Jun-20	06:25:07
11	200609R2_11	2001048-01 Effluent 001 0.99735	10-Jun-20	07:11:21
12	200609R2_12	2001009-10 PDI-078SC-B-02-05-200505 17.06	10-Jun-20	07:57:34
13	200609R2_13	2001009-10@2X PDI-078SC-B-02-05-200505 ...	10-Jun-20	08:43:46
14	200609R2_14	2001034-01@2X PDI-085SC-B-00-02-200508 ...	10-Jun-20	09:30:02
15	200609R2_15	2001034-03@2X PDI-085SC-B-05-07-200508 ...	10-Jun-20	10:16:16
16	200609R2_16	2001034-02@5X PDI-085SC-B-02-05-200508 ...	10-Jun-20	11:02:30

Printed: Tuesday, June 09, 2020 23:28:12 Pacific Daylight Time

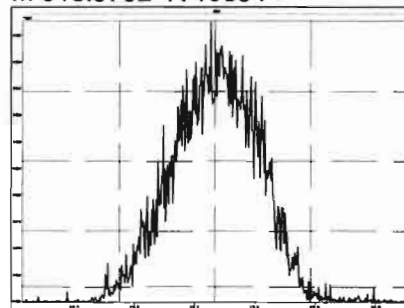
M 292.9824 R 10357



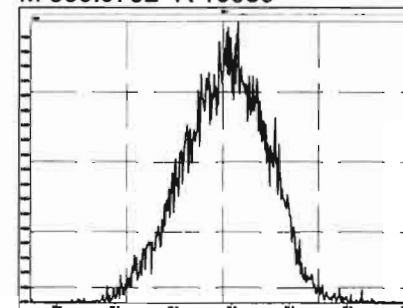
M 304.9824 R 10918



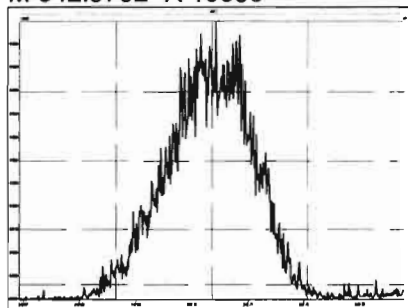
M 318.9792 R 10594



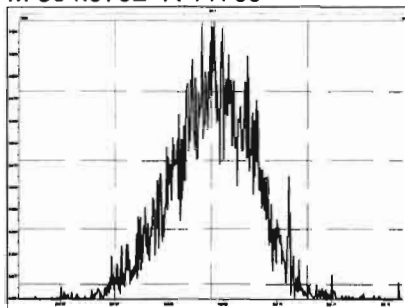
M 330.9792 R 10080



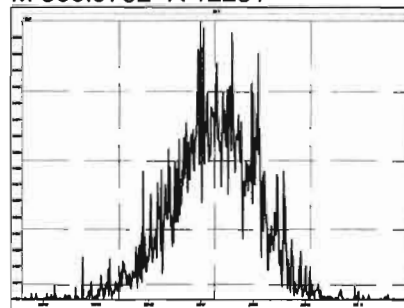
M 342.9792 R 10395



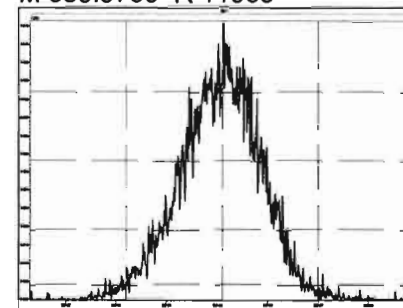
M 354.9792 R 11709



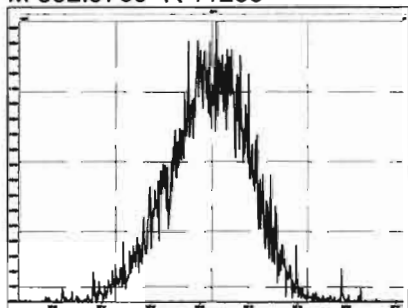
M 366.9792 R 12251



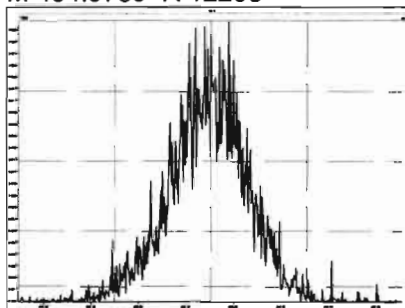
M 380.9760 R 11063



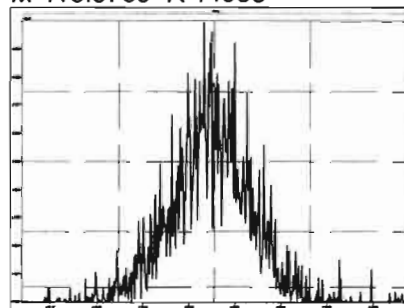
M 392.9760 R 11266



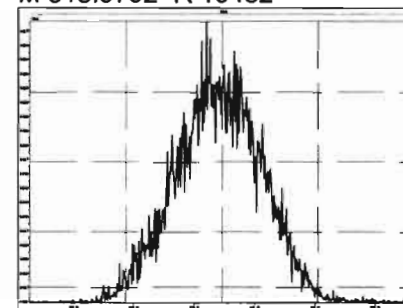
M 404.9760 R 12205



M 416.9760 R 14053

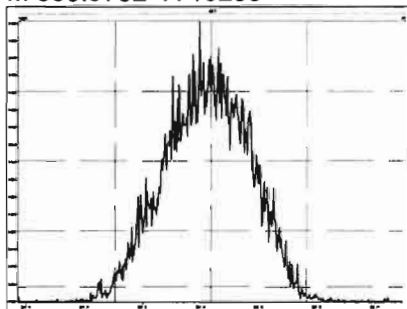


M 318.9792 R 10482

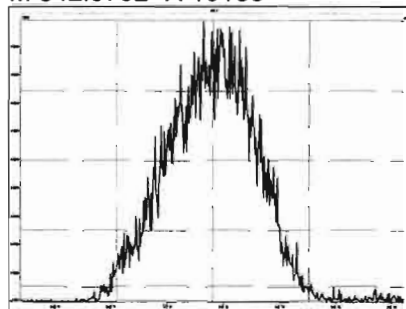


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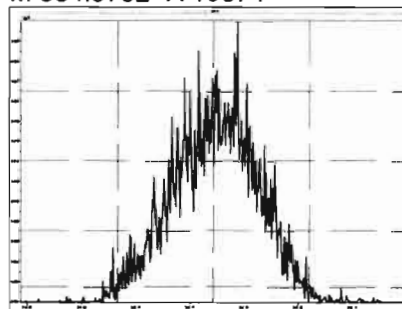
M 330.9792 R 10288



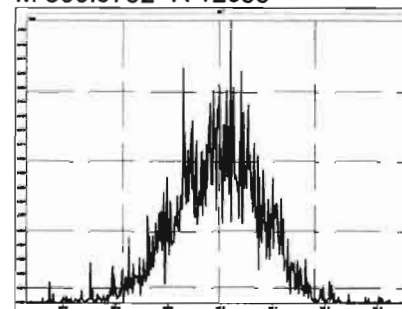
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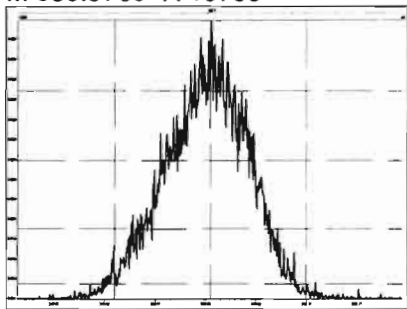
M 354.9792 R 10674



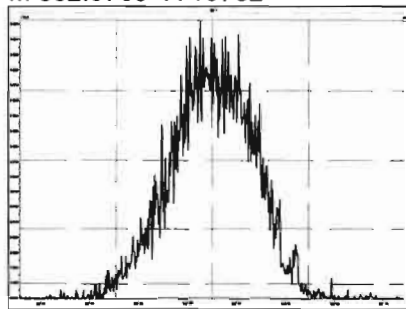
M 366.9792 R 12099



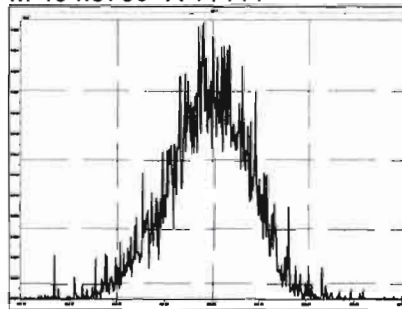
M 380.9760 R 10798



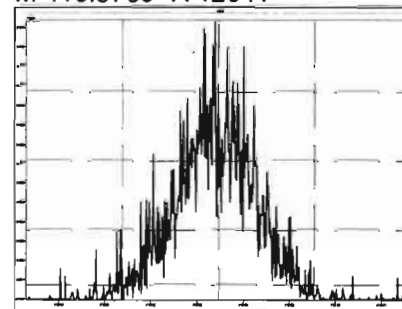
M 392.9760 R 10782



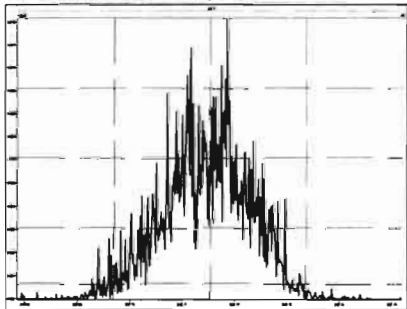
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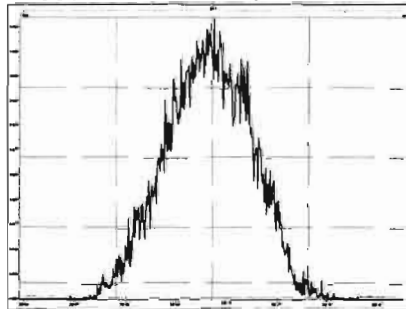
M 416.9760 R 12641



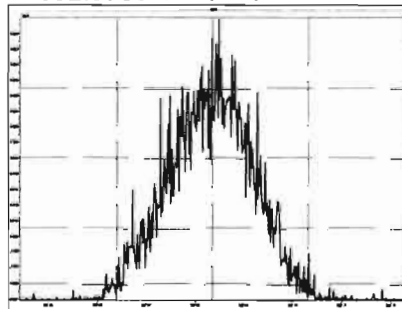
M 366.9792 R 10788



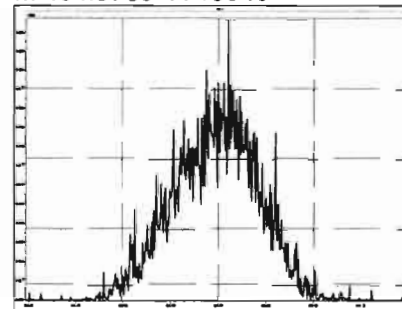
M 380.9760 R 10330



M 392.9760 R 10690

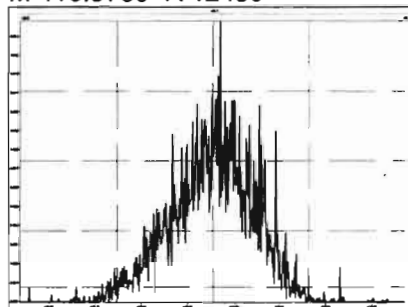


M 404.9760 R 10940

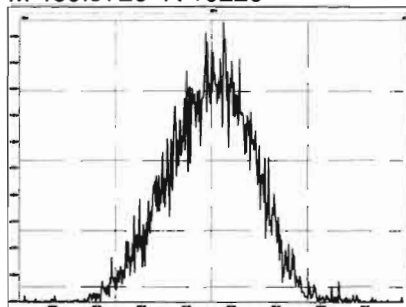


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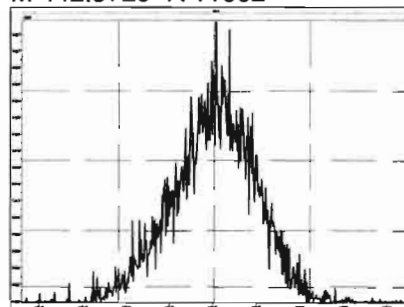
M 416.9760 R 12490



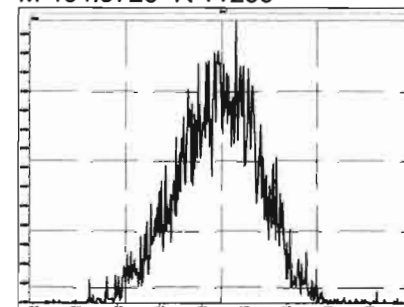
M 430.9728 R 10228



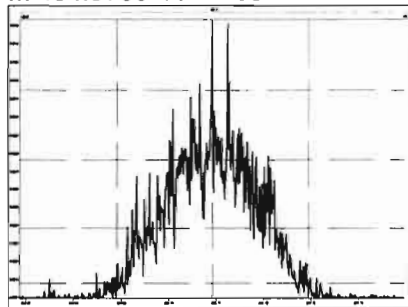
M 442.9728 R 11582



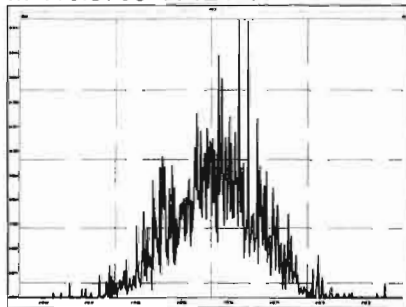
M 454.9728 R 11233



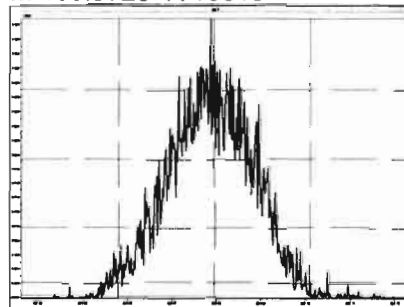
M 404.9760 R 11160



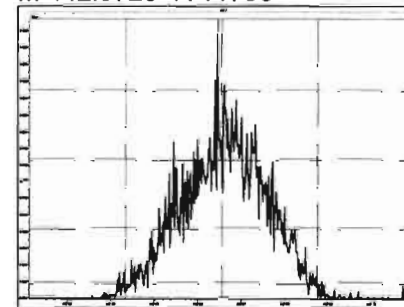
M 416.9760 R 12447



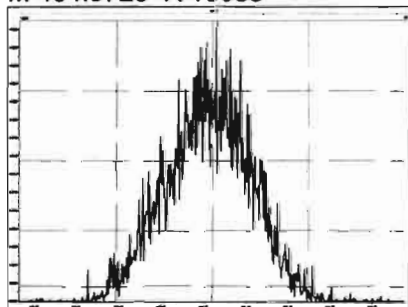
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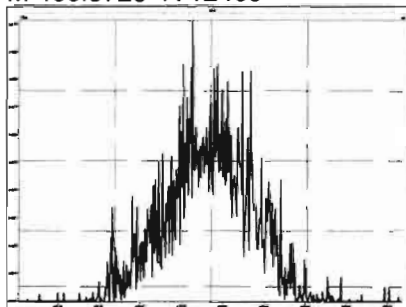
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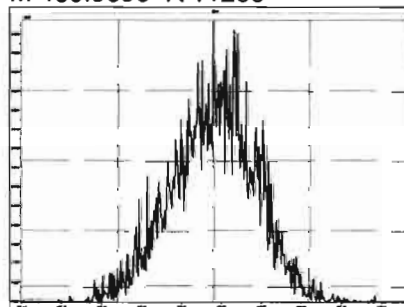
M 454.9728 R 10988



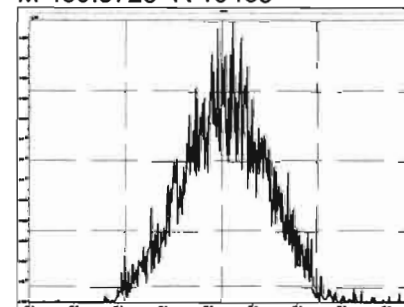
M 466.9728 R 12468



M 480.9696 R 11238

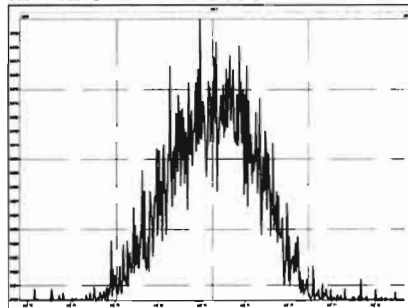


M 430.9728 R 10463

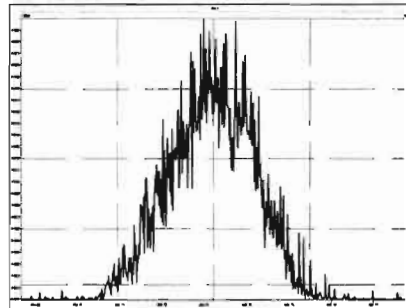


Printed: Tuesday, June 09, 2020 23:28:12 Pacific Daylight Time

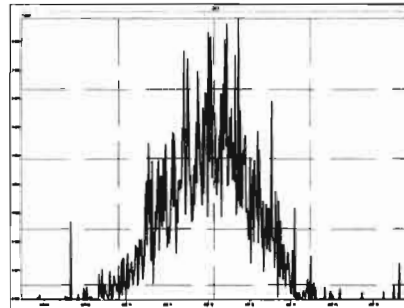
M 442.9728 R 10869



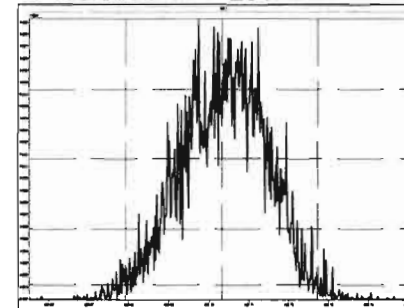
M 454.9728 R 10638



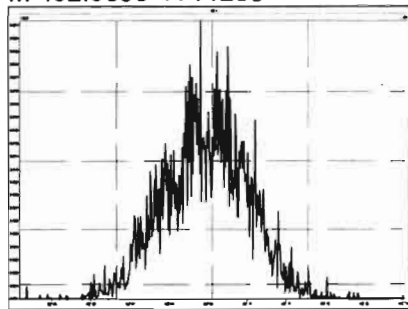
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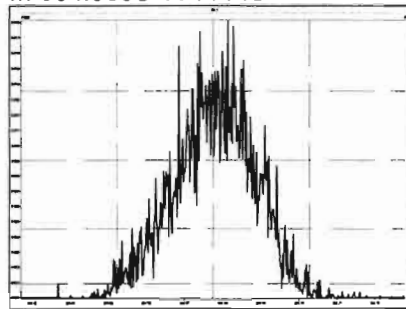
M 480.9696 R 11201



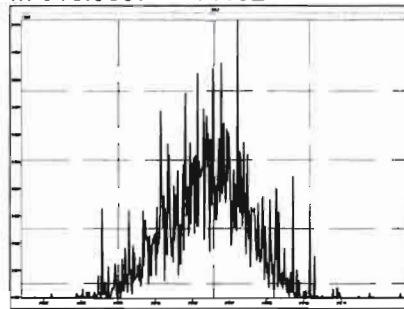
M 492.9696 R 11286



M 504.9696 R 11148



M 516.9697 R 14102



Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:27:08 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 07:27:27 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.46
2	1,2,8,9-TCDD (Last)	27.44
3	1,2,4,7,9-PeCDD (First)	29.24
4	1,2,3,8,9-PeCDD (Last)	31.83
5	1,2,4,6,7,9-HxCDD (First)	33.32
6	1,2,3,7,8,9-HxCDD (Last)	35.22
7	1,2,3,4,6,7,9-HpCDD (First)	37.75
8	1,2,3,4,6,7,8-HpCDD (Last)	38.77
9	1,3,6,8-TCDF (First)	20.32
10	1,2,8,9-TCDF (Last)	27.61
11	1,3,4,6,8-PeCDF (First)	27.56
12	1,2,3,8,9-PeCDF (Last)	32.09
13	1,2,3,4,6,8-HxCDF (First)	32.78
14	1,2,3,7,8,9-HxCDF (Last)	35.58
15	1,2,3,4,6,7,8-HpCDF (First)	37.35
16	1,2,3,4,7,8,9-HpCDF (Last)	39.31

Dataset: Untitled

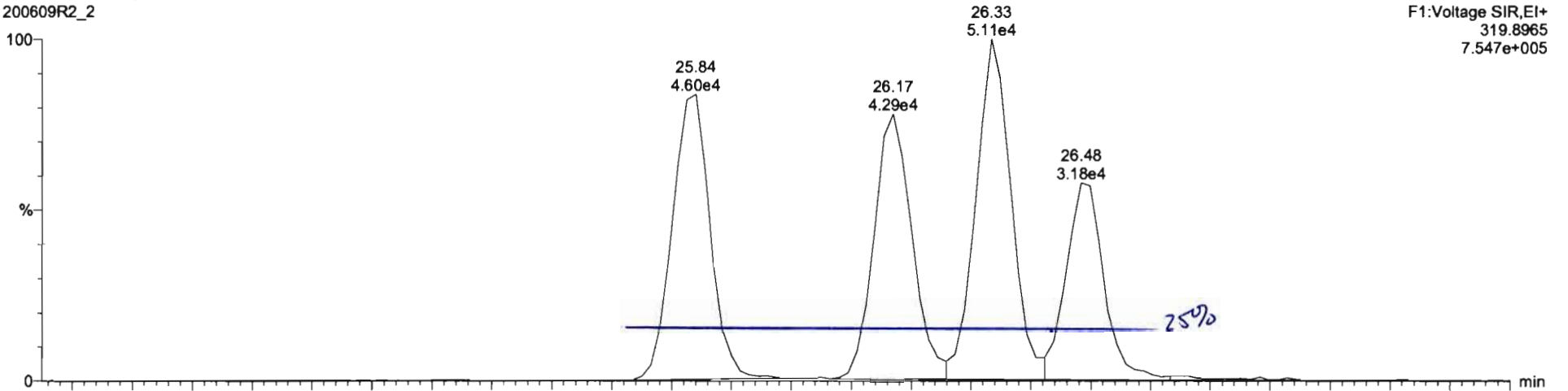
Last Altered: Wednesday, June 10, 2020 07:27:08 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 07:27:27 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

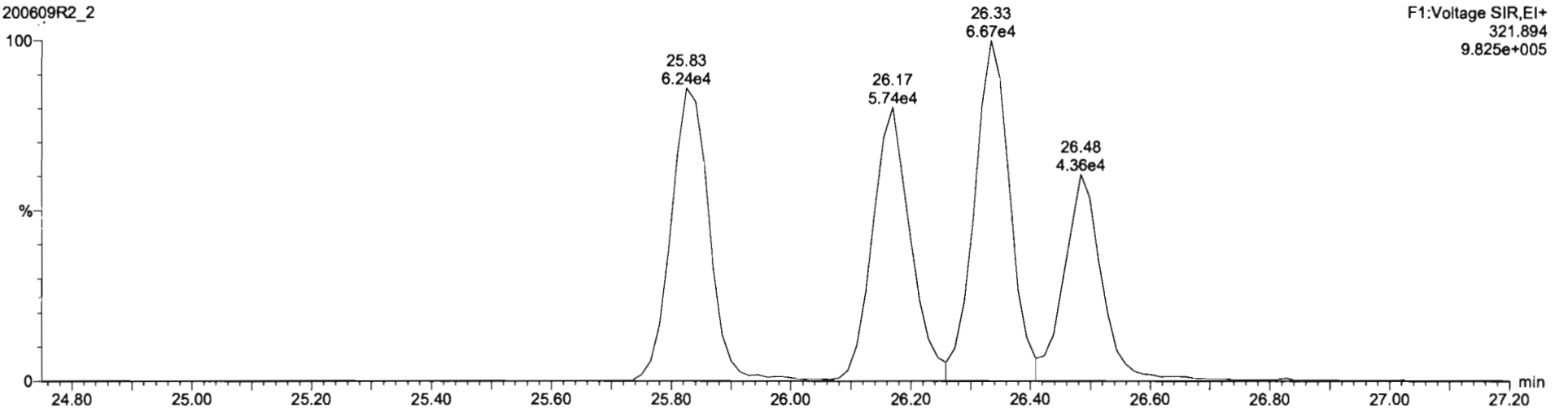
Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200609R2_2



200609R2_2



Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:26:58 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 07:27:01 Pacific Daylight Time

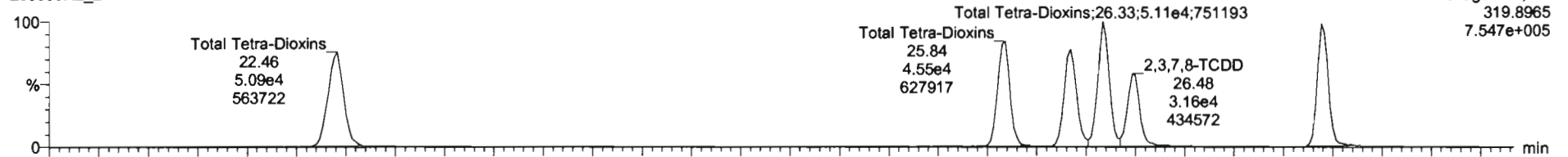
Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45

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

Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

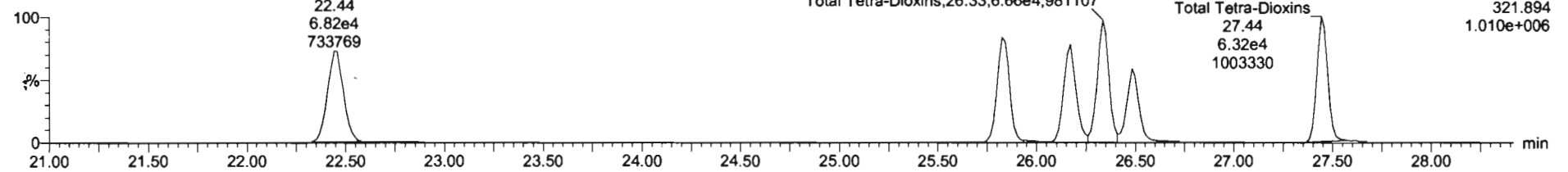
2,3,7,8-TCDD

200609R2_2



F1:Voltage SIR,EI+
319.8965
7.547e+005

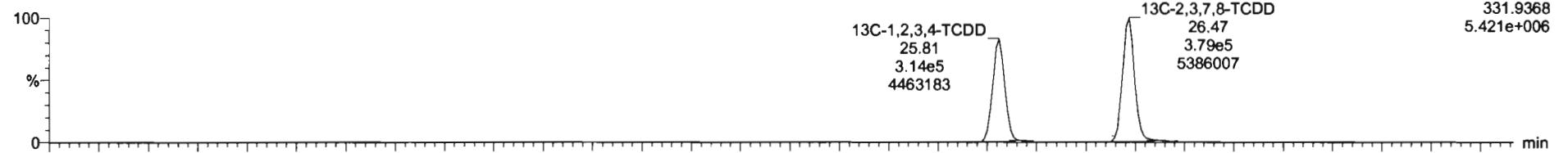
200609R2_2



F1:Voltage SIR,EI+
321.894
1.010e+006

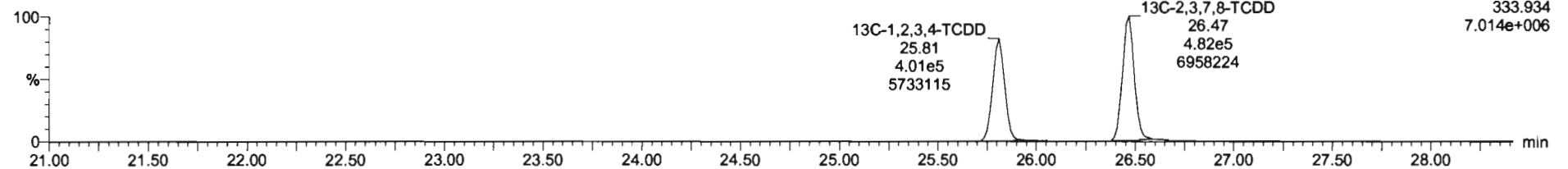
13C-2,3,7,8-TCDD

200609R2_2

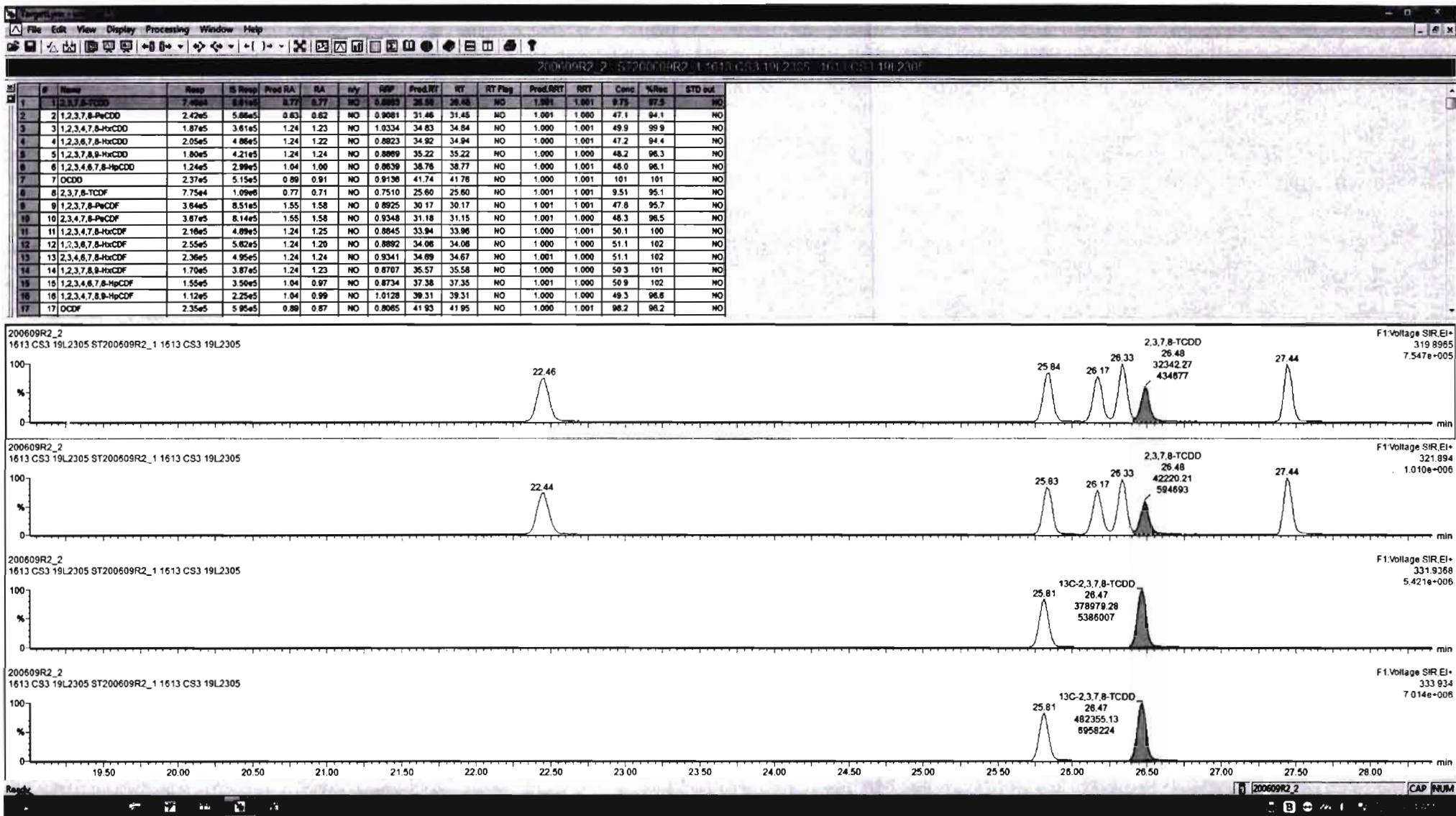


F1:Voltage SIR,EI+
331.9368
5.421e+006

200609R2_2



F1:Voltage SIR,EI+
333.934
7.014e+006



Dataset: Untitled

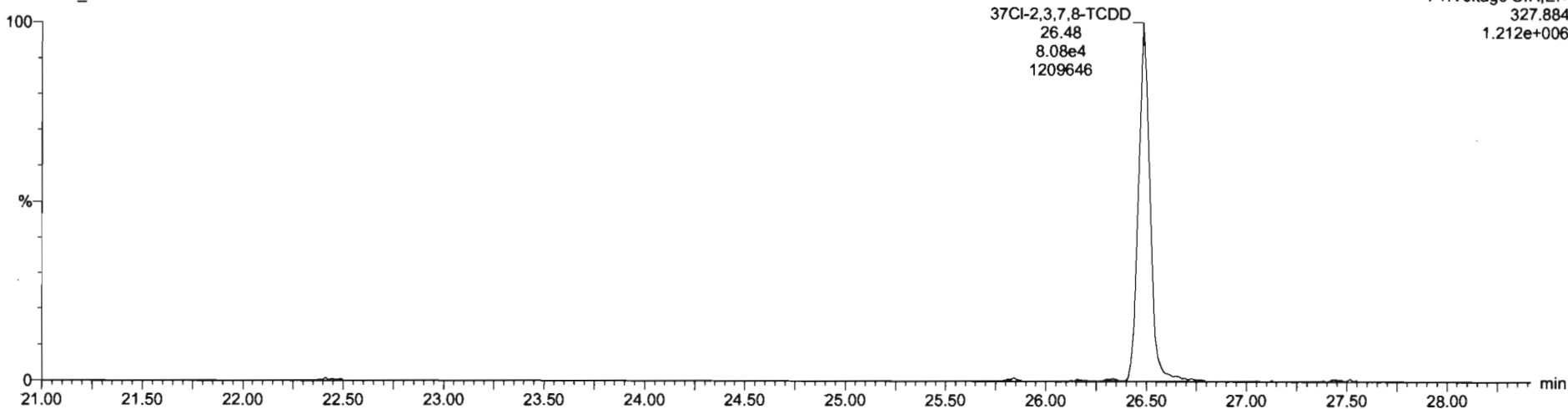
Last Altered: Wednesday, June 10, 2020 07:26:58 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 07:27:01 Pacific Daylight Time

Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

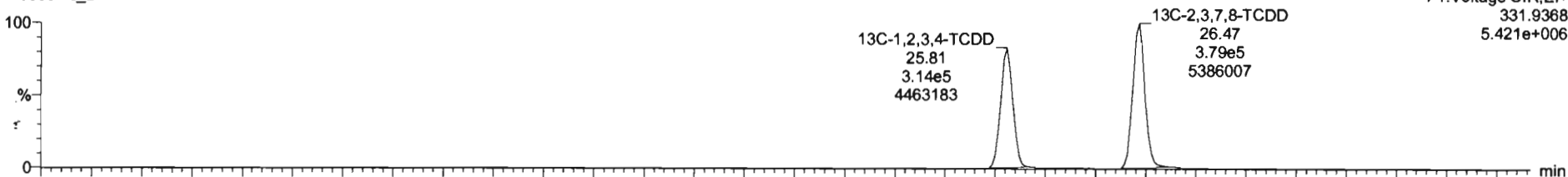
200609R2_2



F1:Voltage SIR,EI+
327.884
1.212e+006

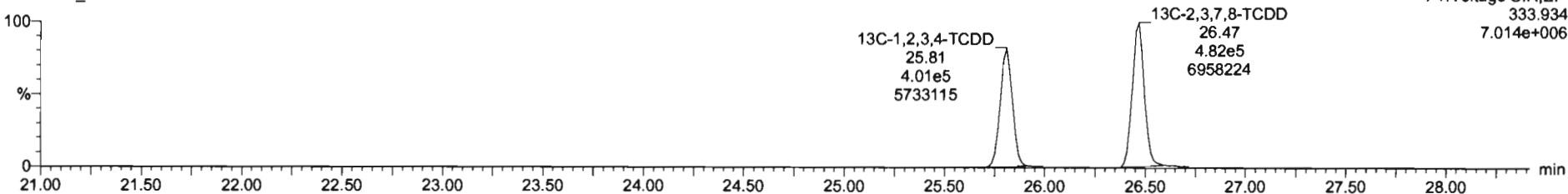
13C-1,2,3,4-TCDD

200609R2_2



F1:Voltage SIR,EI+
331.9368
5.421e+006

200609R2_2



F1:Voltage SIR,EI+
333.934
7.014e+006

Dataset: Untitled

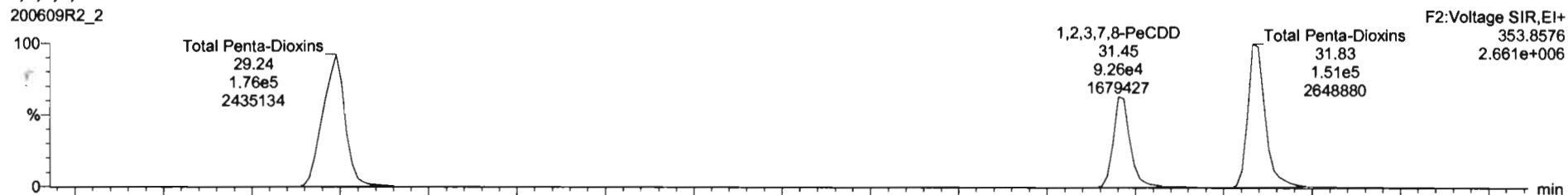
Last Altered: Wednesday, June 10, 2020 07:26:58 Pacific Daylight Time

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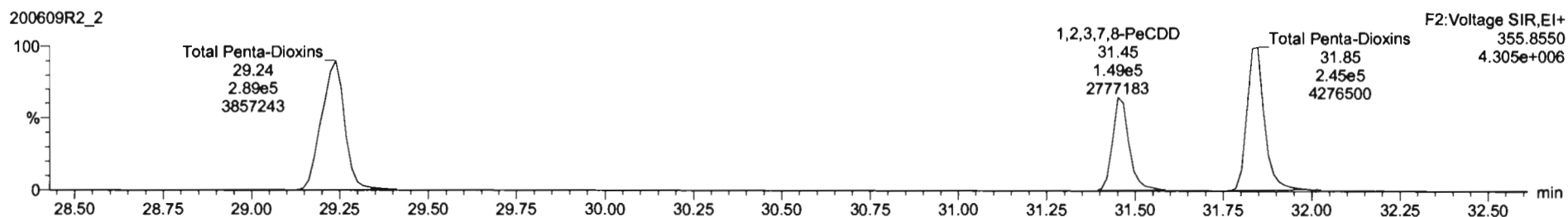
Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200609R2_2

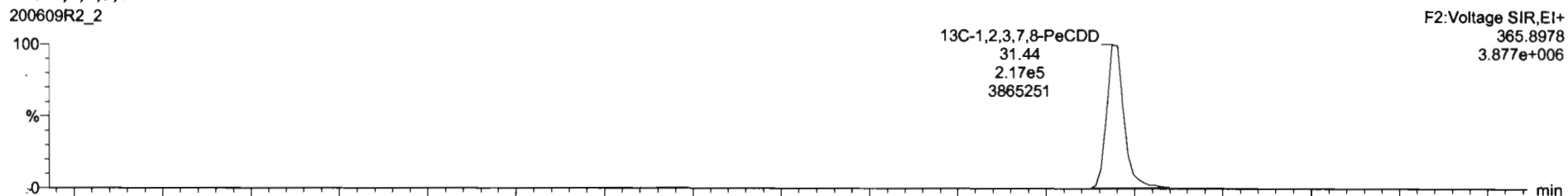


200609R2_2

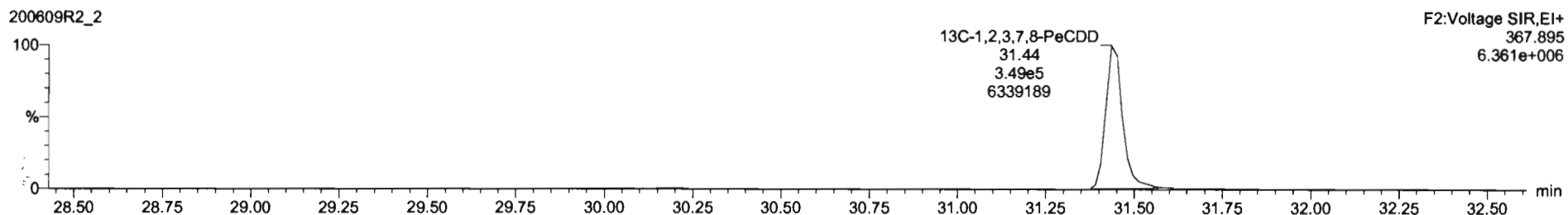


13C-1,2,3,7,8-PeCDD

200609R2_2



200609R2_2



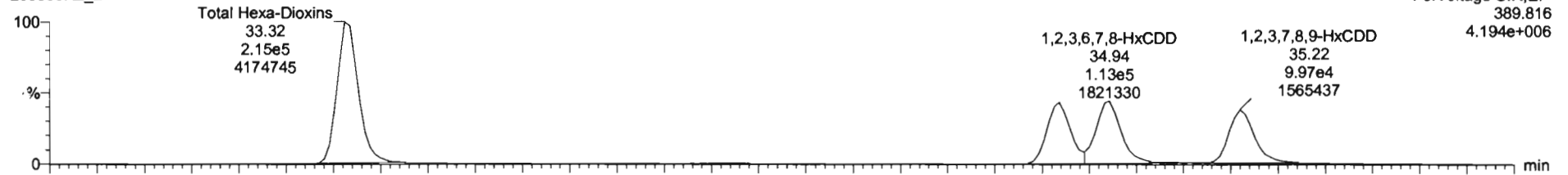
Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:26:58 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 07:27:01 Pacific Daylight Time

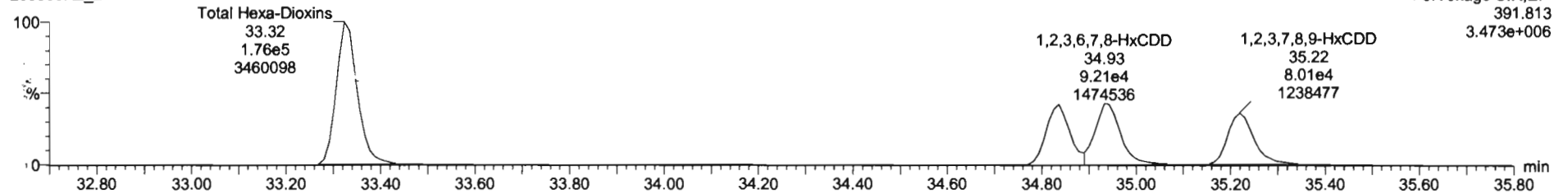
Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200609R2_2

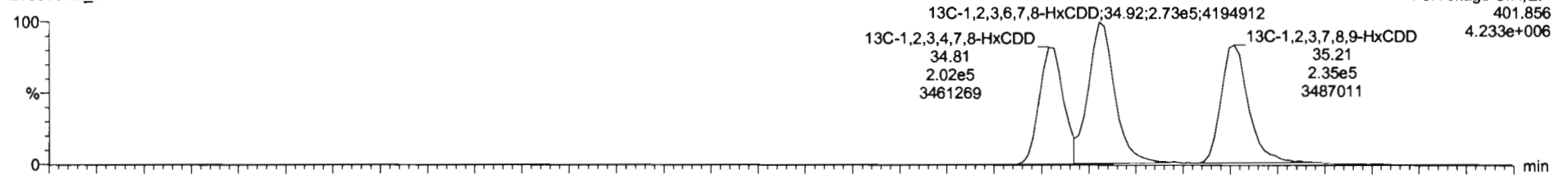


200609R2_2

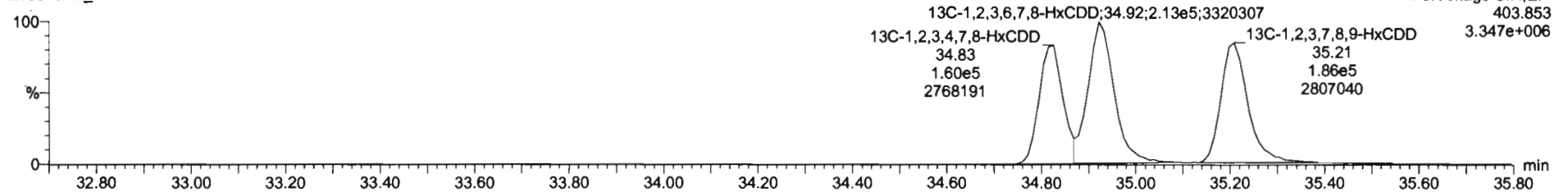


13C-1,2,3,4,7,8-HxCDD

200609R2_2



200609R2_2



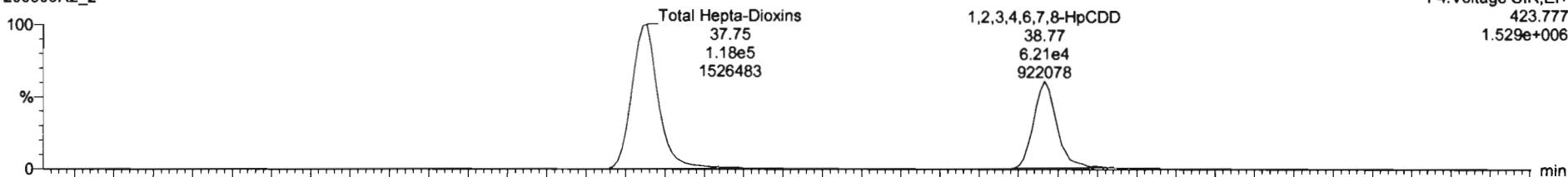
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Last Altered: Wednesday, June 10, 2020 07:26:58 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 07:27:01 Pacific Daylight Time

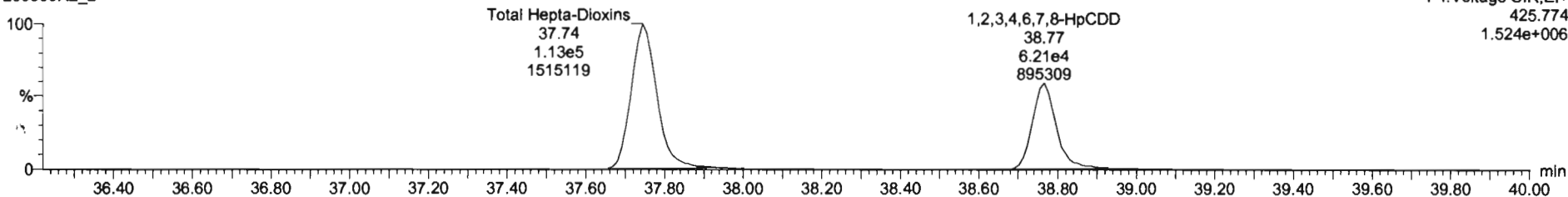
Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200609R2_2

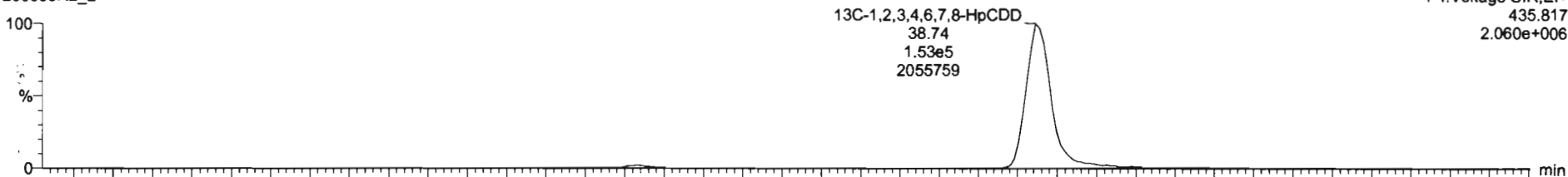


200609R2_2

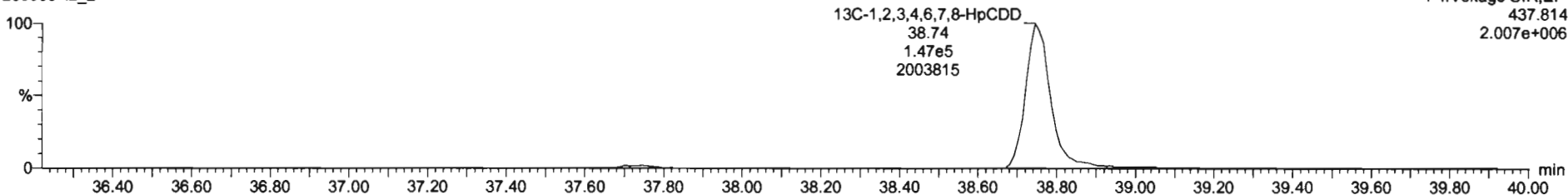


13C-1,2,3,4,6,7,8-HpCDD

200609R2_2



200609R2_2



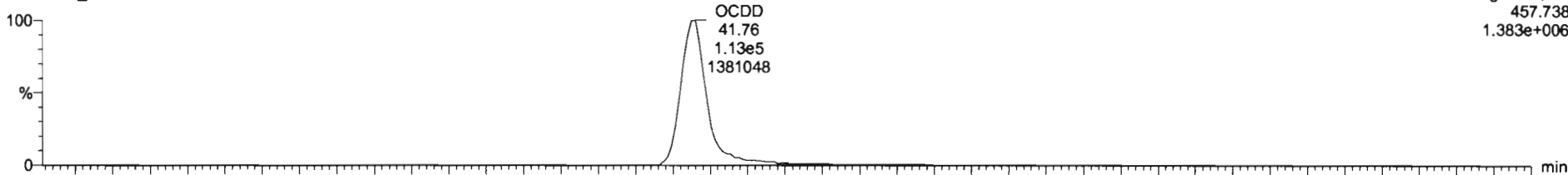
Dataset: Untitled

Last Altered: Wednesday, June 10, 2020 07:26:58 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 07:27:01 Pacific Daylight Time

Name: 200609R2_2, Date: 10-Jun-2020, Time: 00:15:10, ID: ST200609R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

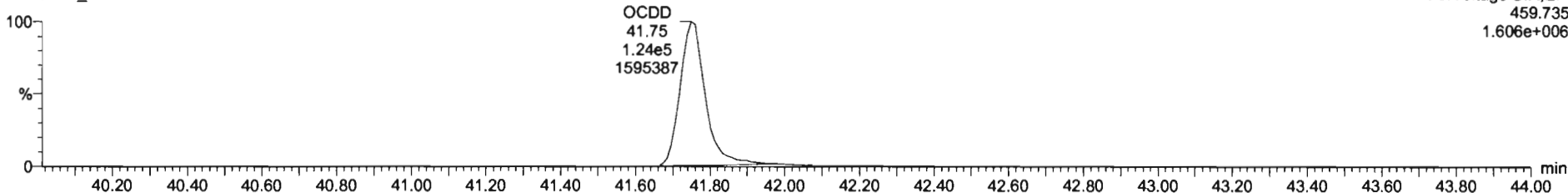
OCDD

200609R2_2



F5:Voltage SIR,EI+
457.738
1.383e+006

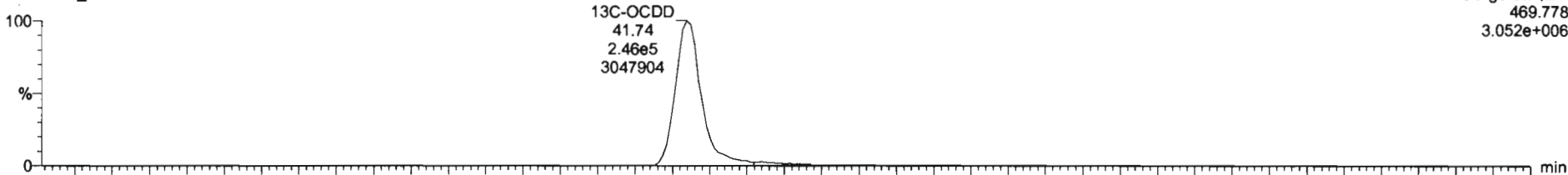
200609R2_2



F5:Voltage SIR,EI+
459.735
1.606e+006

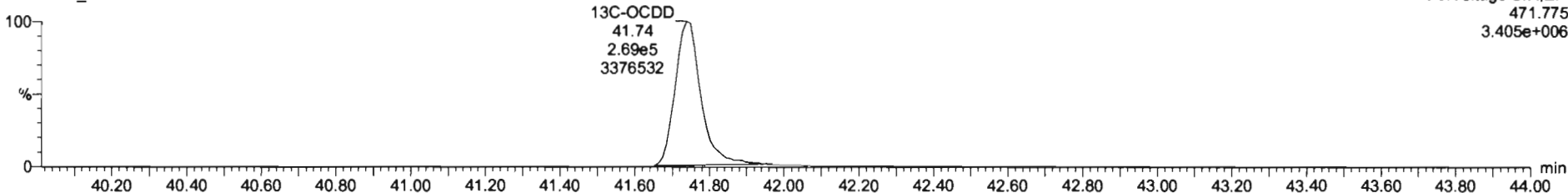
13C-OCDD

200609R2_2

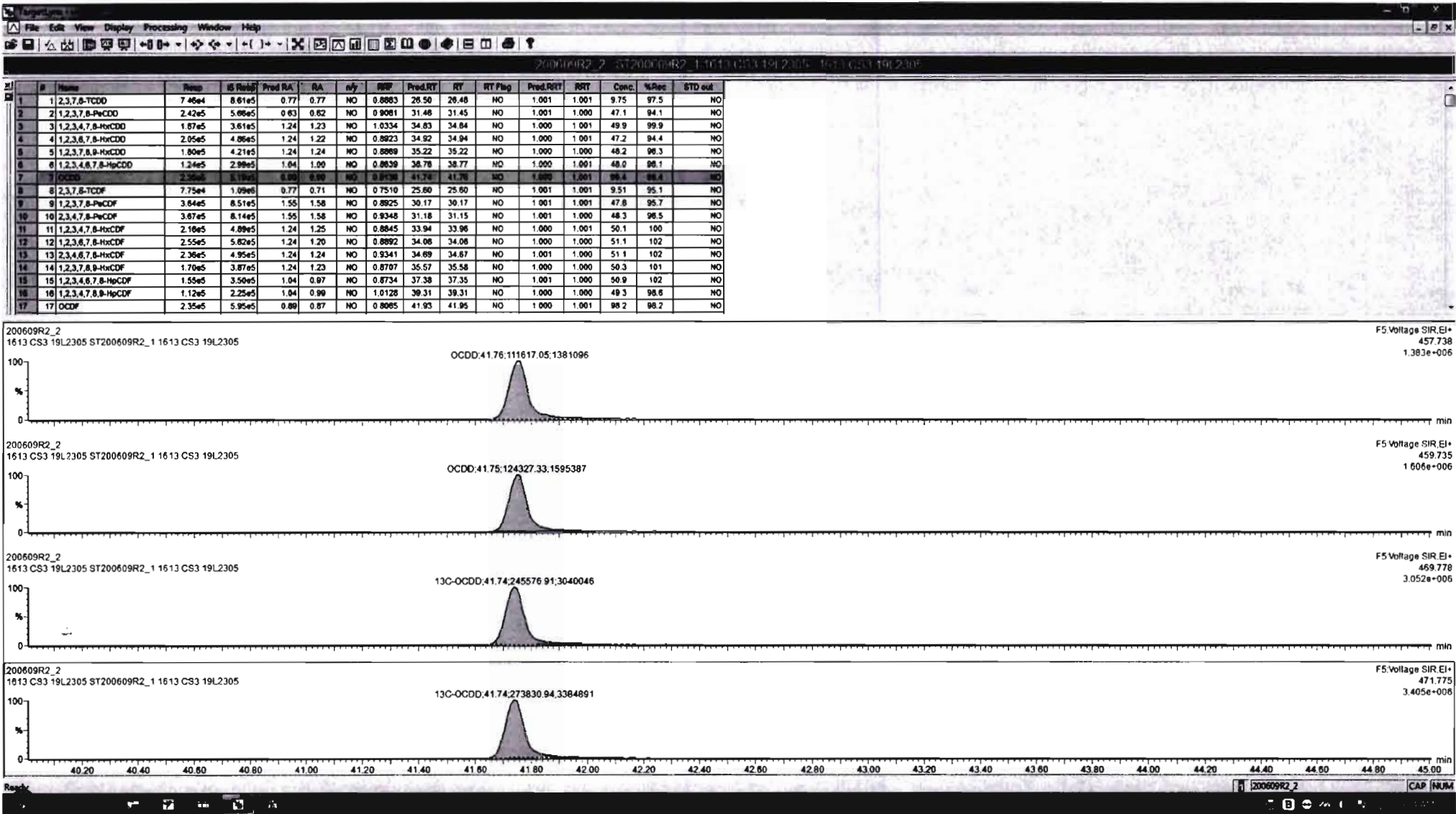


F5:Voltage SIR,EI+
469.778
3.052e+006

200609R2_2



F5:Voltage SIR,EI+
471.775
3.405e+006



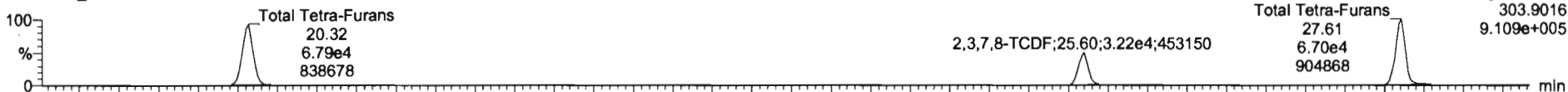
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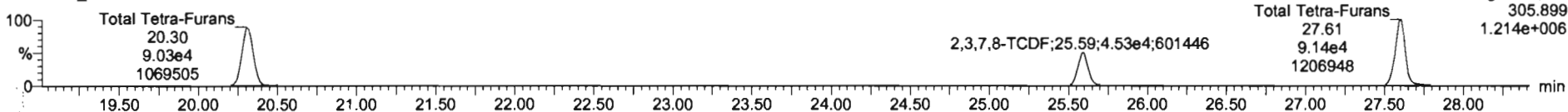
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2,3,7,8-TCDF

200609R2_2

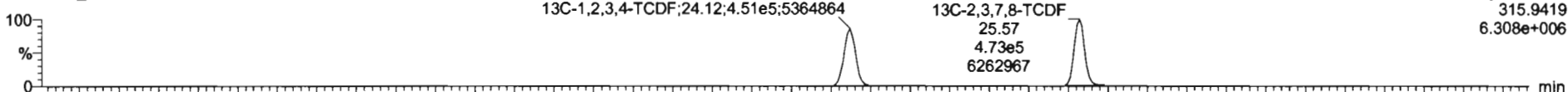


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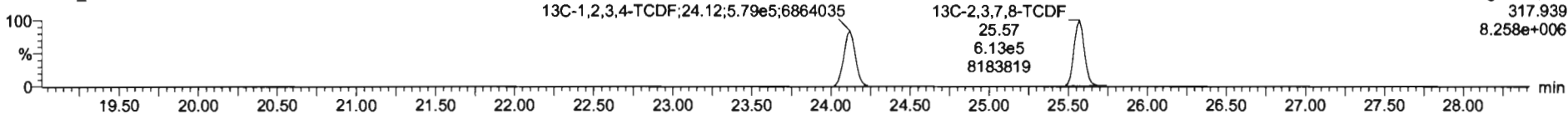


13C-2,3,7,8-TCDF

200609R2_2

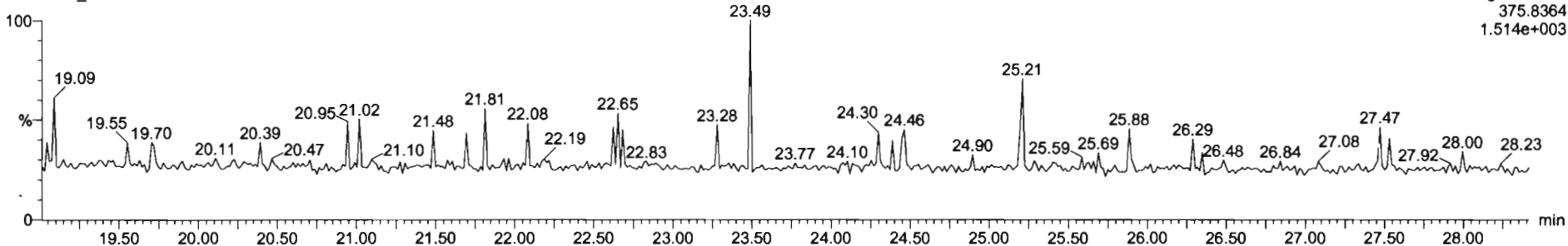


200609R2_2



DPE1

200609R2_2



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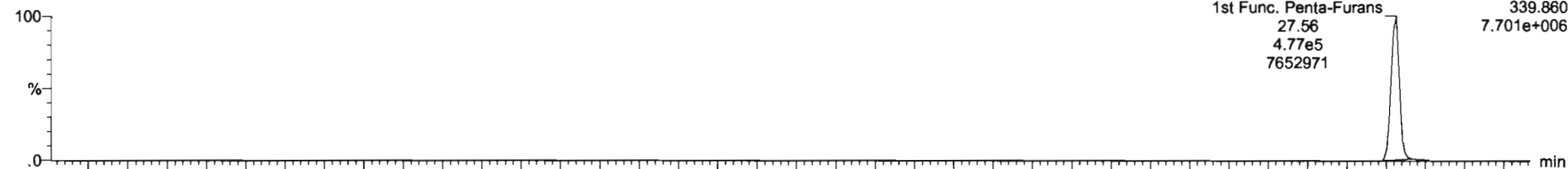
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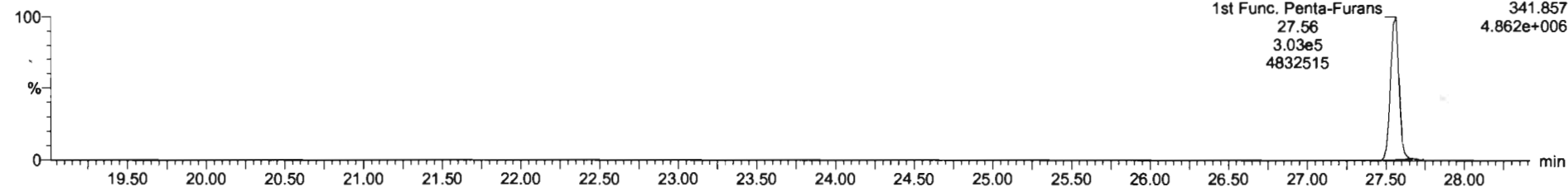
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1st Func. Penta-Furans

200609R2_2

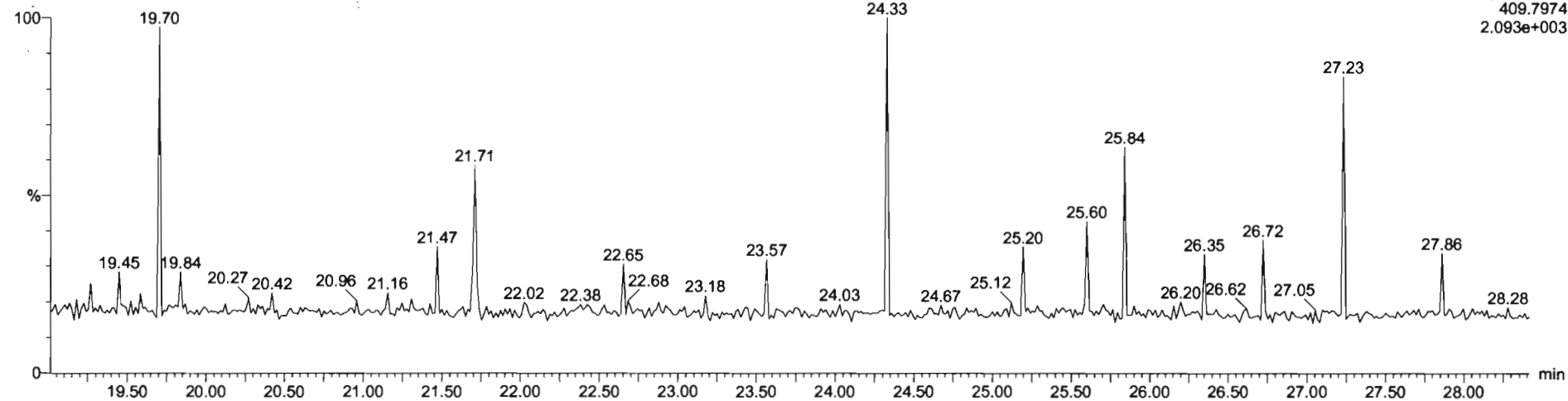


200609R2_2



DPE6

200609R2_2



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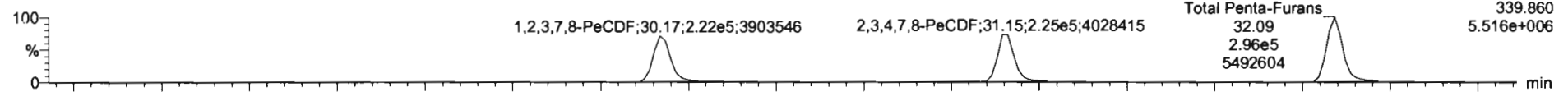
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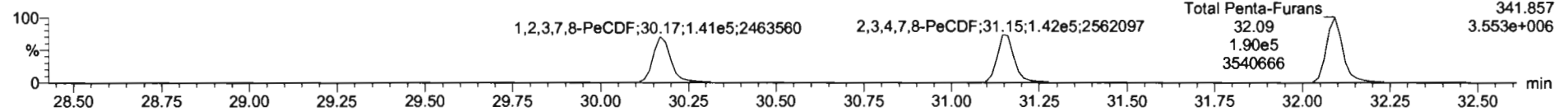
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1,2,3,7,8-PeCDF

200609R2_2

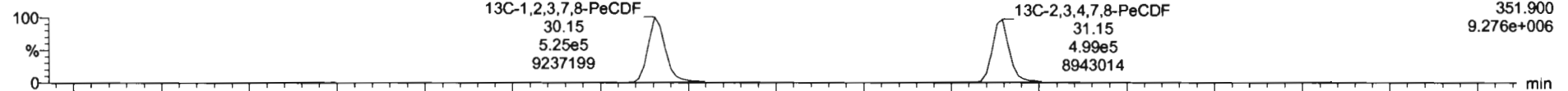


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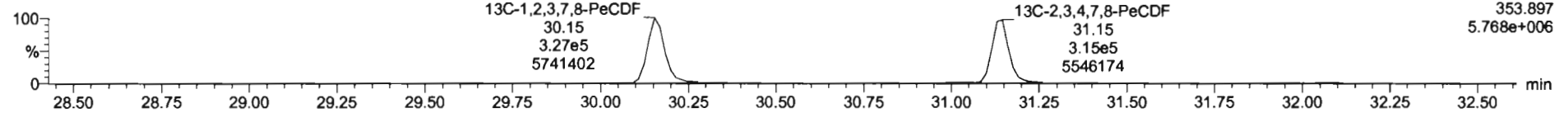


13C-1,2,3,7,8-PeCDF

200609R2_2

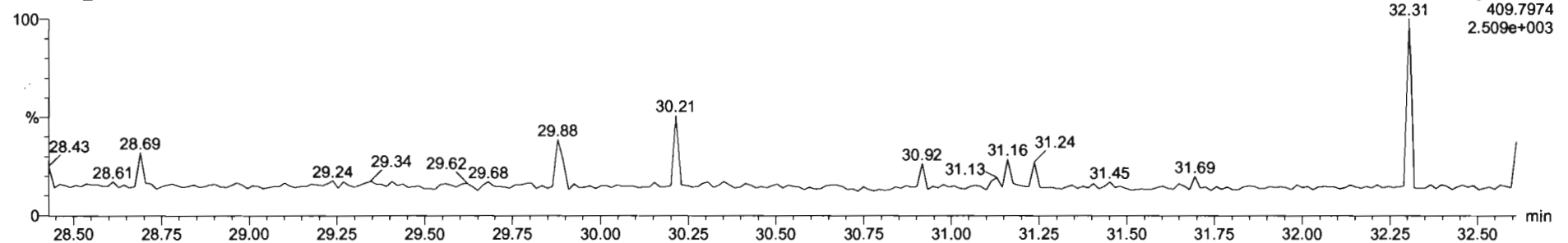


200609R2_2



DPE2

200609R2_2

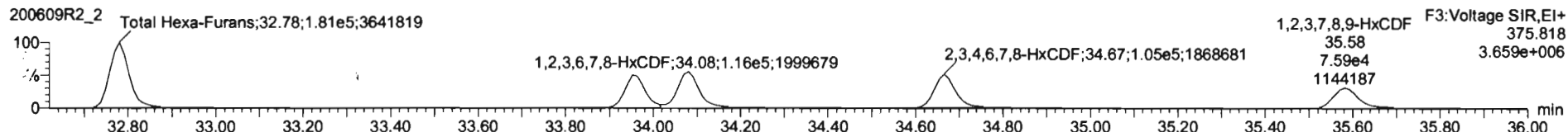
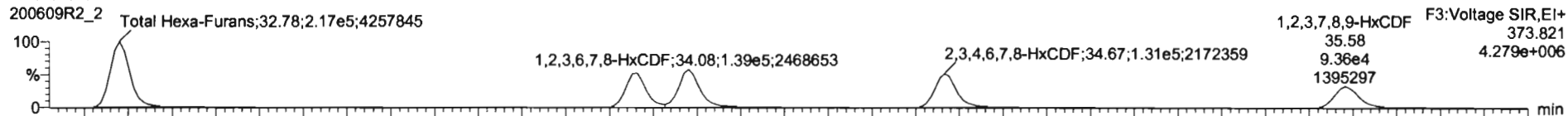


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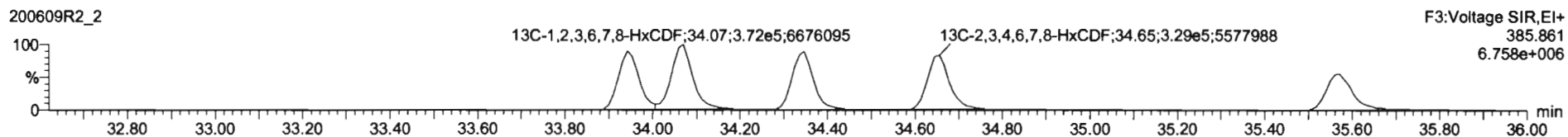
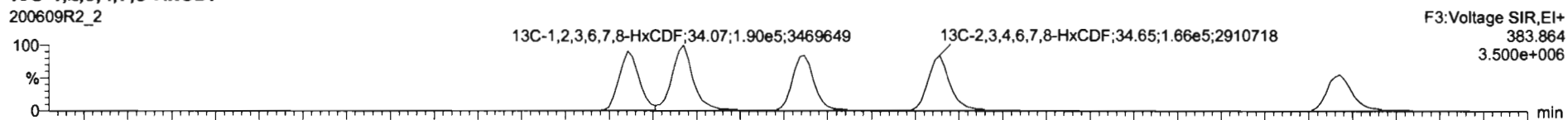
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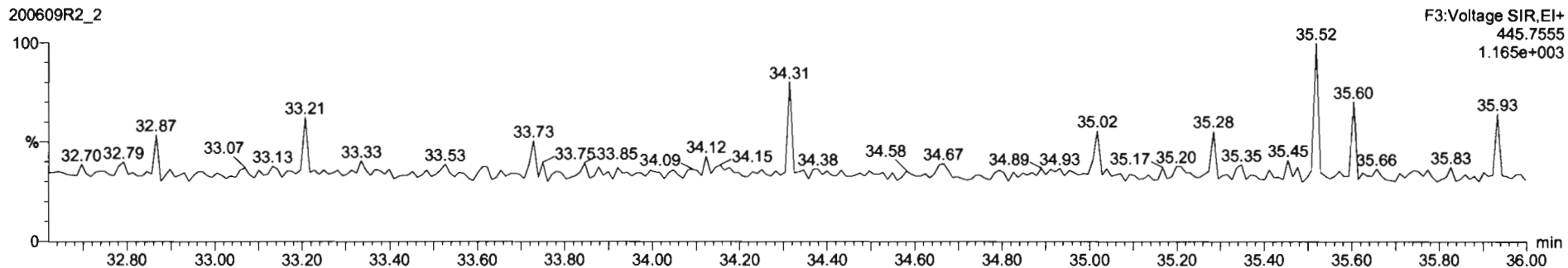
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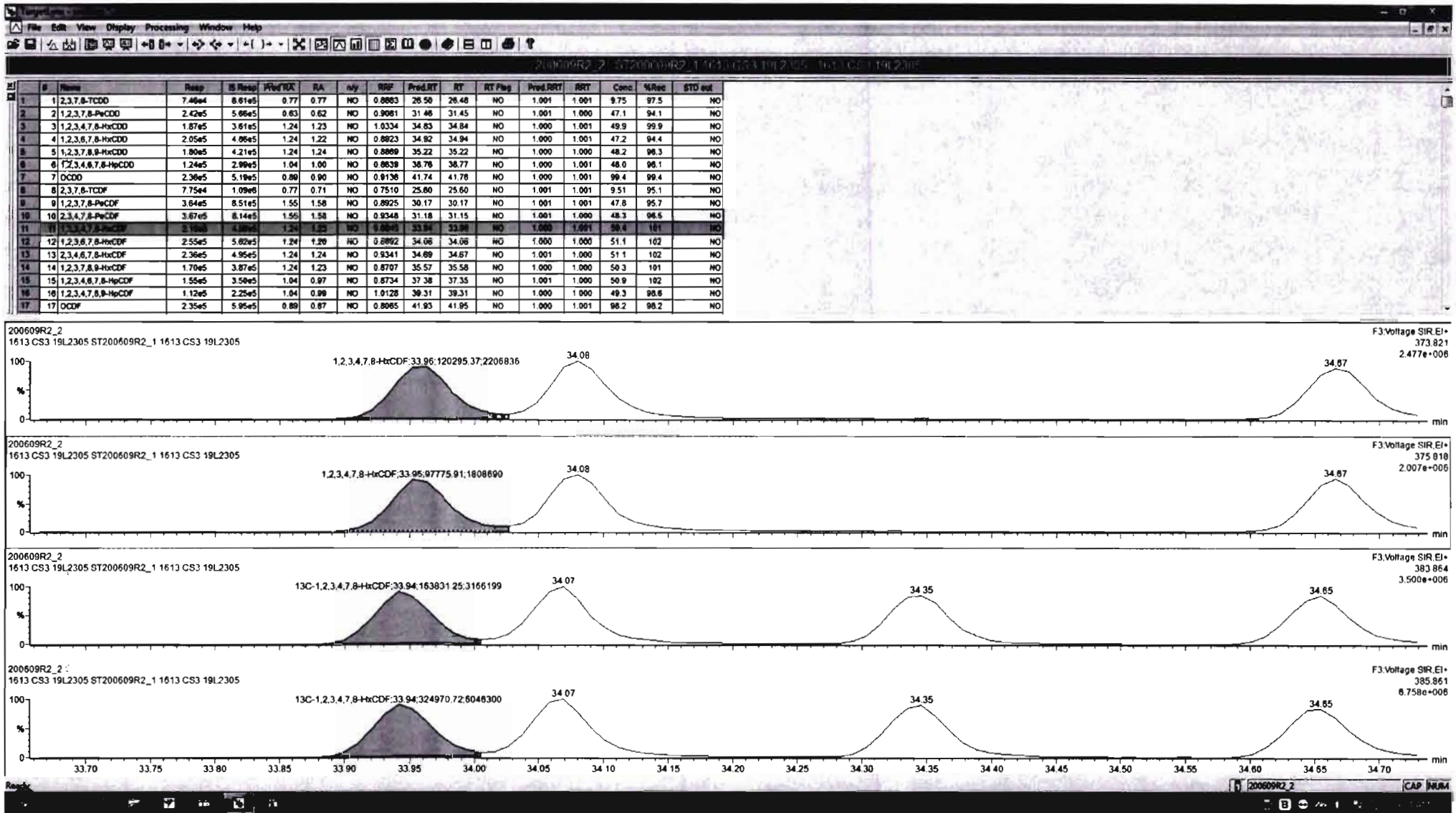


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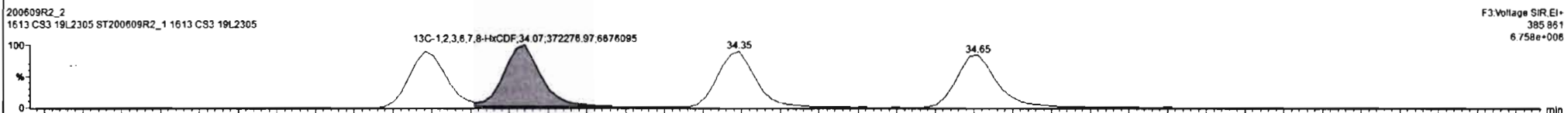
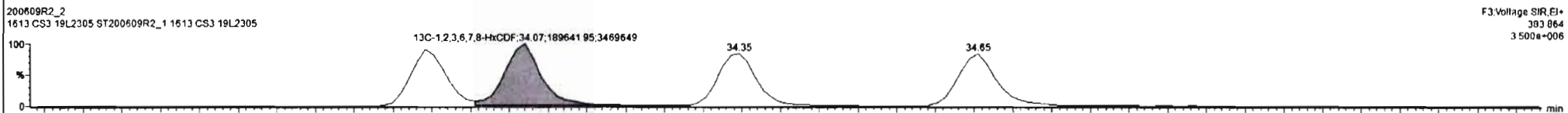
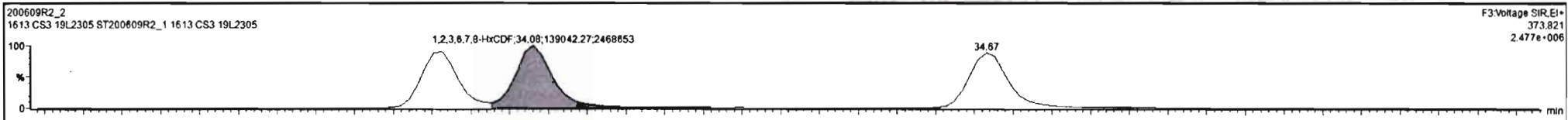


DPE3



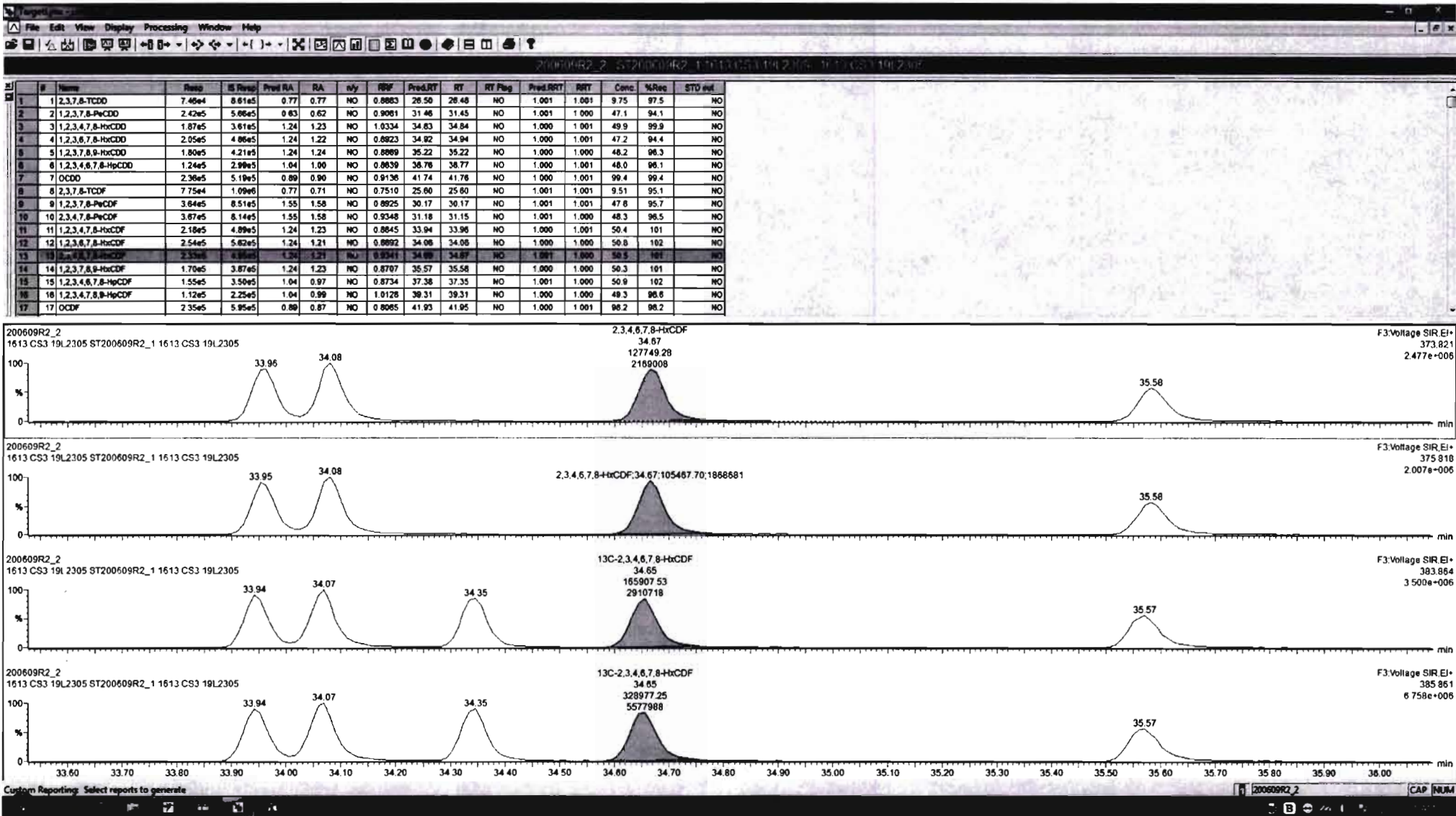


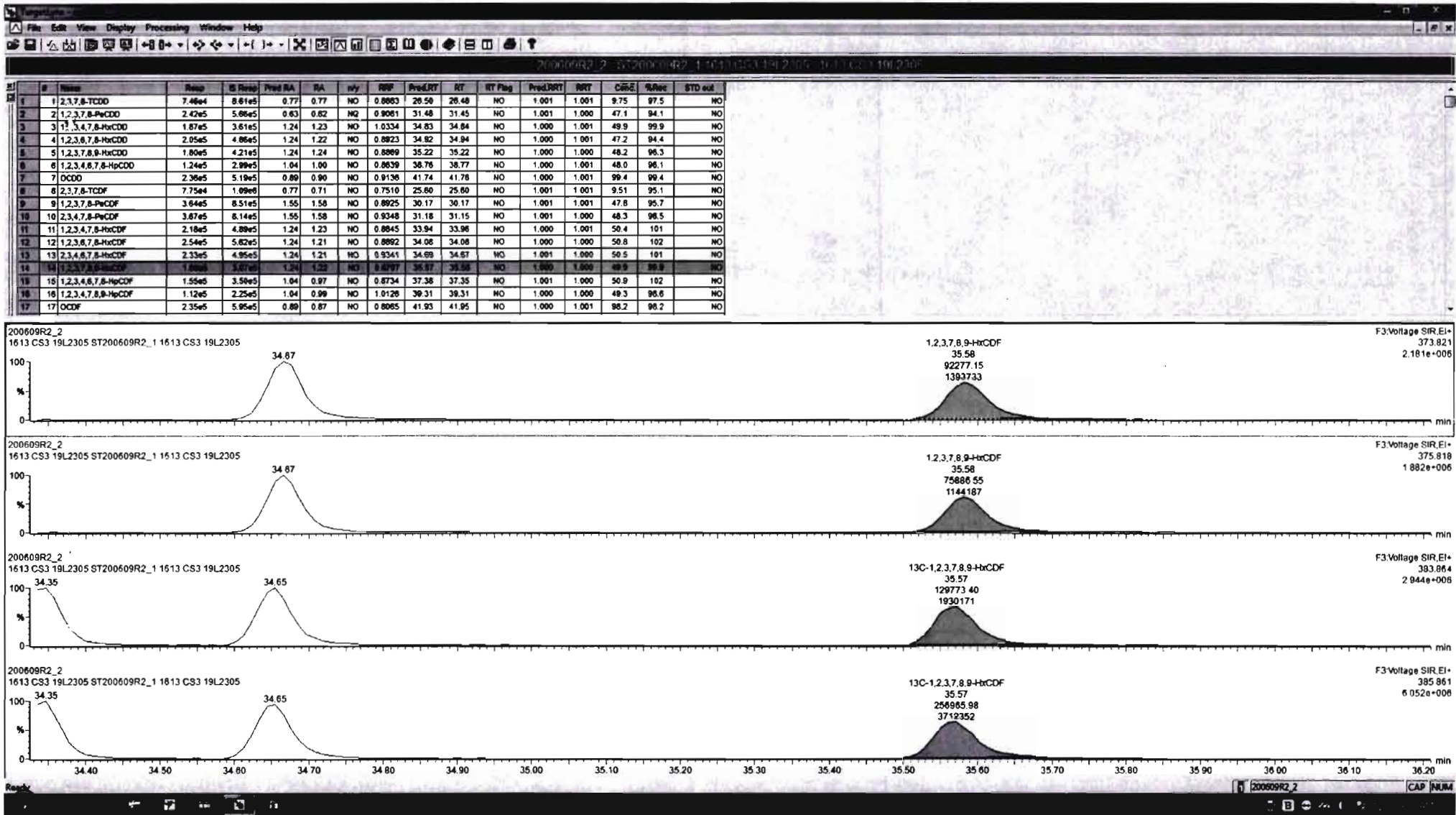
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2	1,2,3,7,8-PeCDD	2.42e5	5.86e5	0.63	0.62	NO	0.9081	31.48	31.45	NO	1.001	1.000	47.1	94.1	NO
3	1,2,3,4,7,8-HxCDD	1.87e5	3.61e5	1.24	1.23	NO	1.0334	34.83	34.84	NO	1.000	1.001	49.9	99.9	NO
4	1,2,3,6,7,8-HxCDD	2.05e5	4.86e5	1.24	1.22	NO	0.8823	34.82	34.84	NO	1.000	1.001	47.2	94.4	NO
5	1,2,3,7,8,9-HxCDD	1.80e5	4.21e5	1.24	1.24	NO	0.8869	35.22	35.22	NO	1.000	1.000	48.2	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	1.24e5	2.99e5	1.04	1.00	NO	0.8639	38.76	38.77	NO	1.000	1.001	48.0	96.1	NO
7	OCDD	2.38e5	5.19e5	0.89	0.90	NO	0.9138	41.74	41.78	NO	1.000	1.001	99.4	99.4	NO
8	2,3,7,8-TCDF	7.75e4	1.09e6	0.77	0.71	NO	0.7510	25.60	25.60	NO	1.001	1.001	9.51	95.1	NO
9	1,2,3,7,8-PeCDF	3.64e5	8.51e5	1.55	1.58	NO	0.8925	30.17	30.17	NO	1.001	1.001	47.8	95.7	NO
10	2,3,4,7,8-PeCDF	3.67e5	8.14e5	1.55	1.58	NO	0.9348	31.18	31.15	NO	1.001	1.000	48.3	96.5	NO
11	1,2,3,4,7,8-HxCDF	2.18e5	4.89e5	1.24	1.23	NO	0.8945	33.94	33.96	NO	1.000	1.001	50.4	101	NO
12	1,2,3,6,7,8-HxCDF	2.36e5	5.82e5	1.24	1.21	NO	0.8883	34.69	34.68	NO	1.000	1.000	50.9	102	NO
13	1,2,3,4,6,7,8-HpCDF	2.36e5	4.95e5	1.24	1.24	NO	0.9341	34.69	34.67	NO	1.001	1.000	51.1	102	NO
14	1,2,3,7,8,9-HxCDF	1.70e5	3.87e5	1.24	1.23	NO	0.8707	35.57	35.58	NO	1.000	1.000	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	1.55e5	3.50e5	1.04	0.97	NO	0.8734	37.38	37.35	NO	1.001	1.000	50.9	102	NO
16	1,2,3,4,7,8,9-HpCDF	1.12e5	2.25e5	1.04	0.99	NO	1.0128	39.31	39.31	NO	1.000	1.000	49.3	96.8	NO
17	OCDF	2.35e5	5.95e5	0.89	0.87	NO	0.8065	41.93	41.96	NO	1.000	1.001	98.2	98.2	NO



Custom Reporting: Select reports to generate

200609R2_2 CAP NUM





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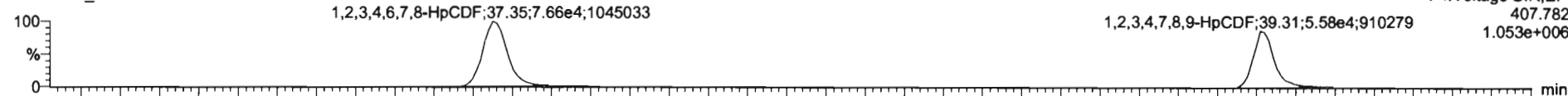
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Printed: Wednesday, June 10, 2020 07:27:01 Pacific Daylight Time

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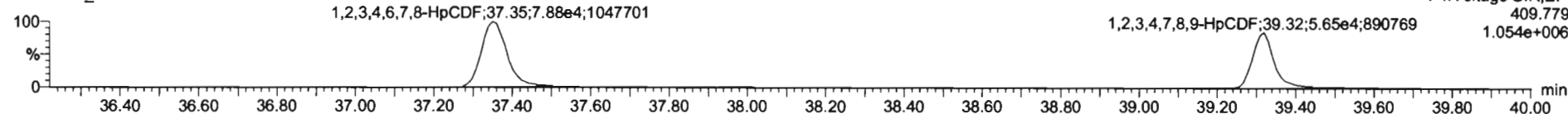
1,2,3,4,6,7,8-HpCDF

200609R2_2



F4:Voltage SIR,EI+
407.782
1.053e+006

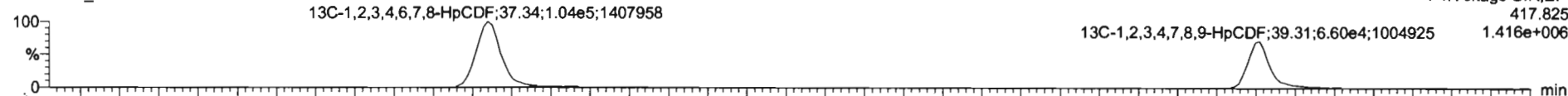
200609R2_2



F4:Voltage SIR,EI+
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1.054e+006

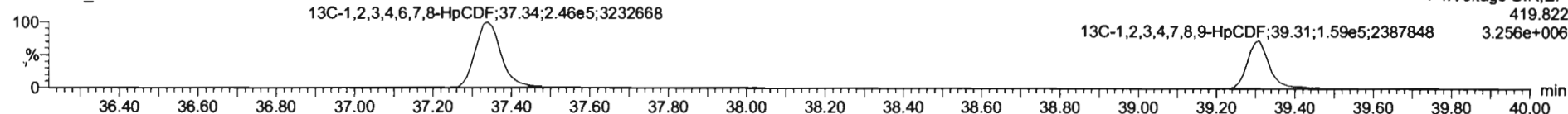
13C-1,2,3,4,6,7,8-HpCDF

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F4:Voltage SIR,EI+
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1.416e+006

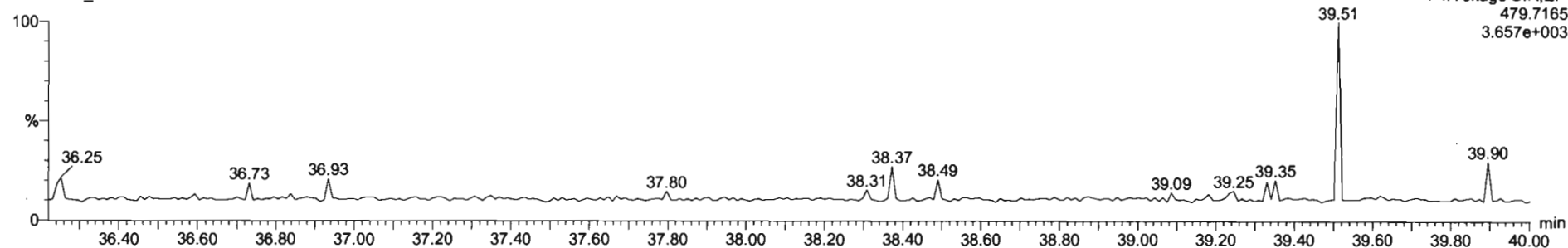
200609R2_2



F4:Voltage SIR,EI+
419.822
3.256e+006

DPE4

200609R2_2

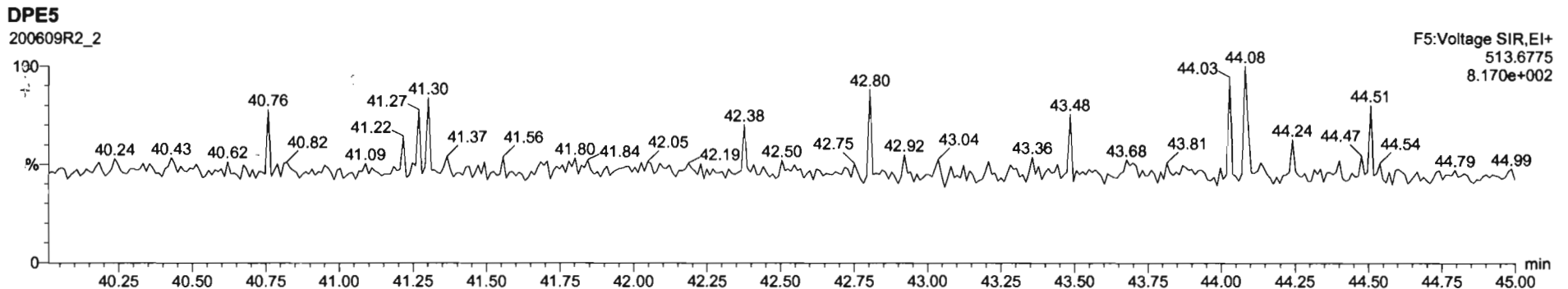
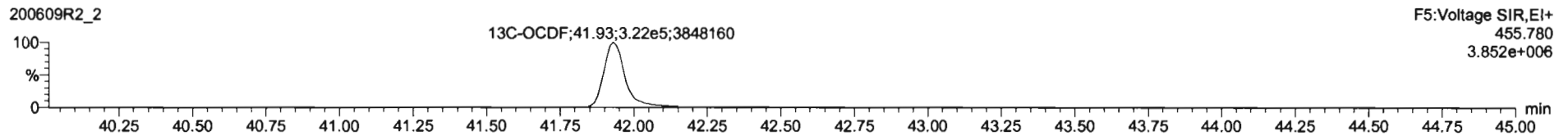
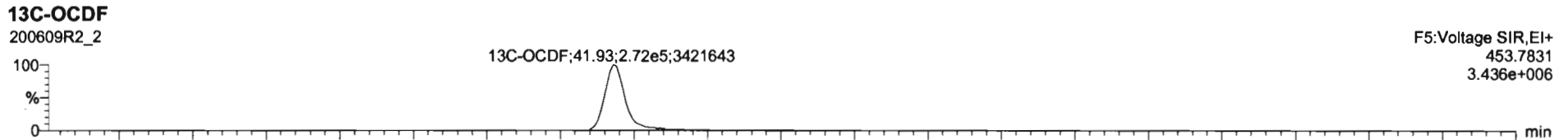
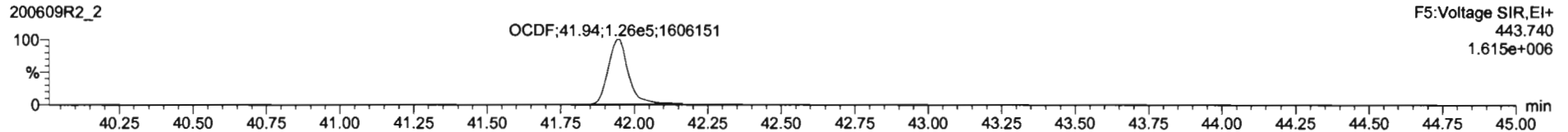
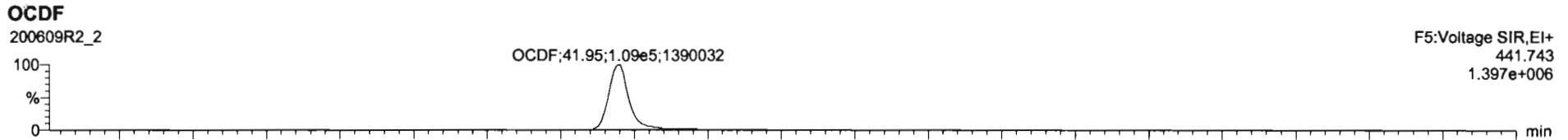


F4:Voltage SIR,EI+
479.7165
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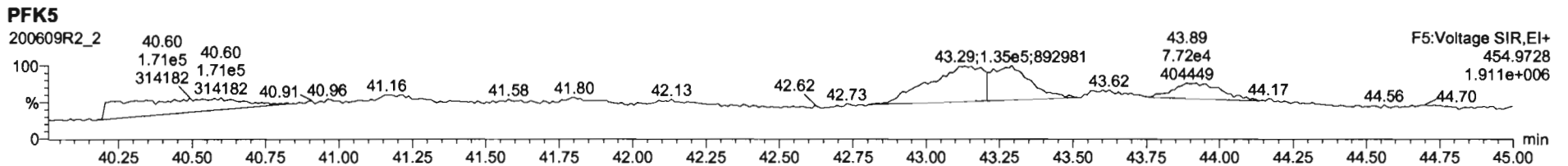
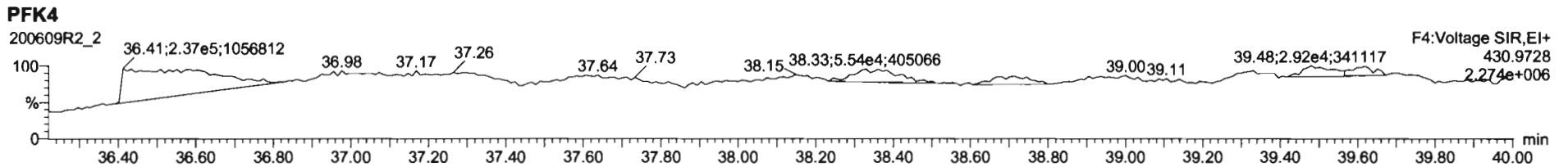
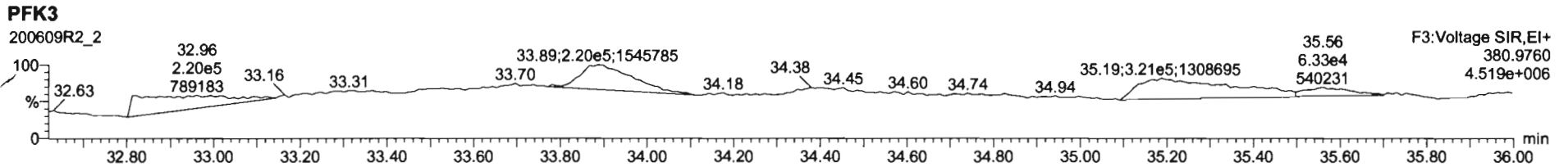
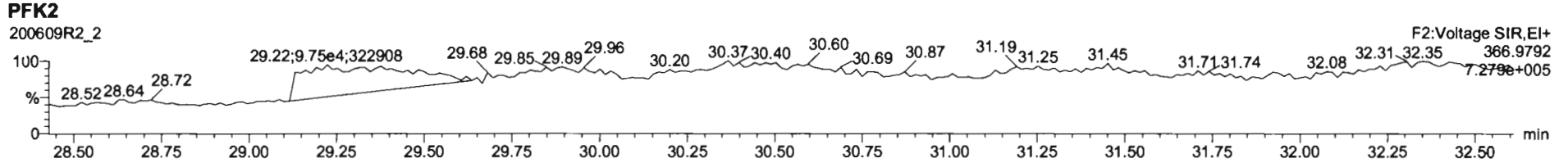
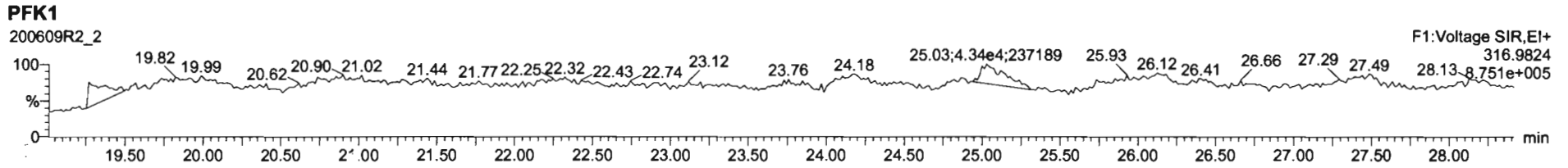
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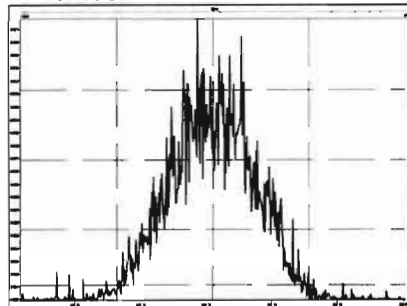
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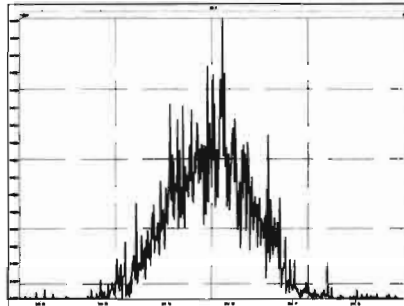


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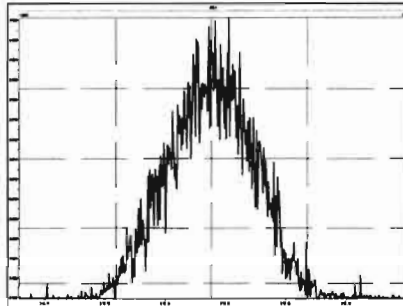
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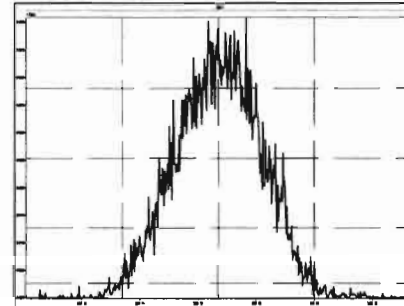
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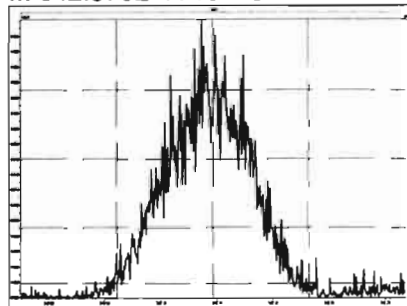
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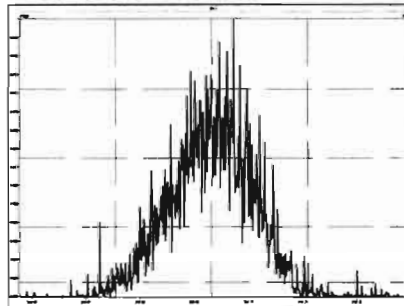
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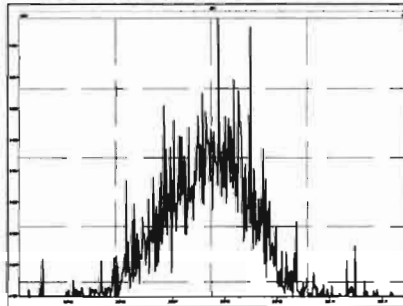
M 342.9792 R 10438



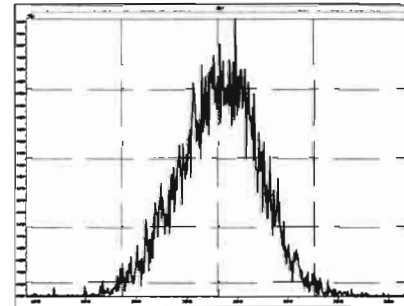
M 354.9792 R 12109



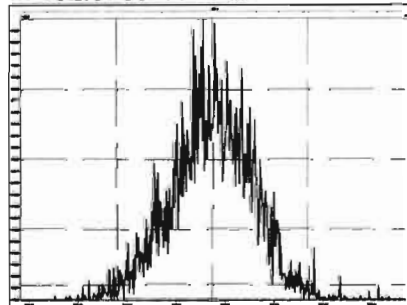
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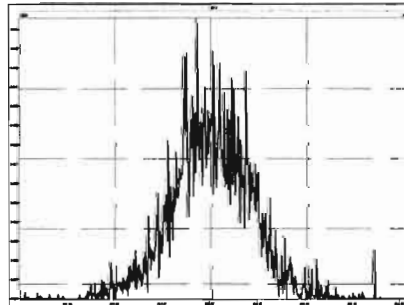
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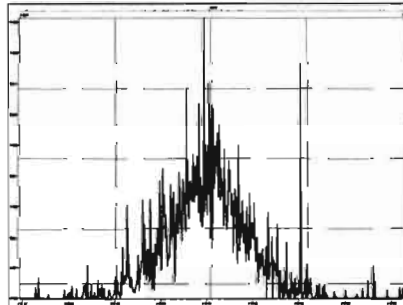
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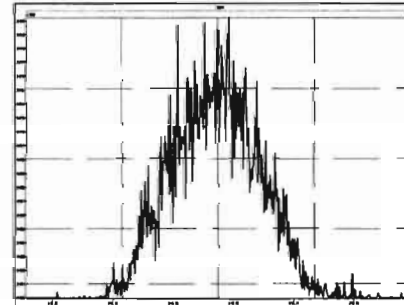
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M 416.9760 R 13441

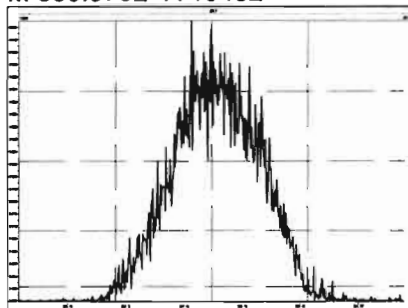


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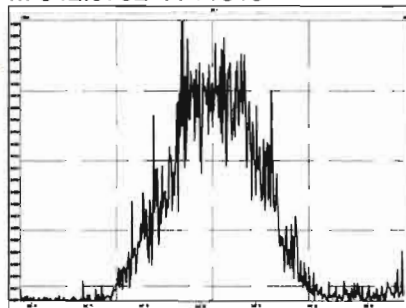


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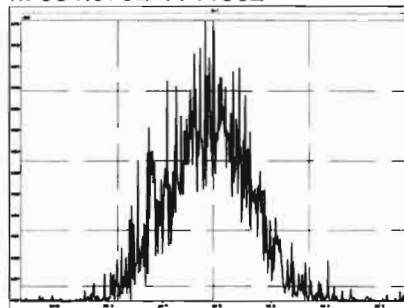
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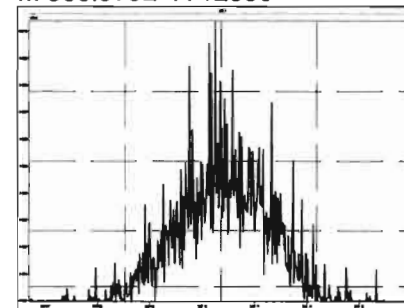
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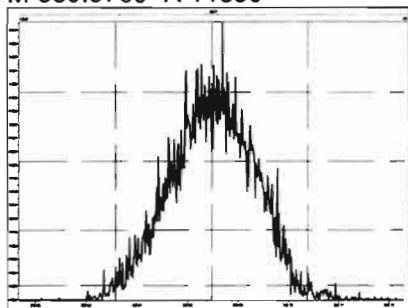
M 354.9792 R 11932



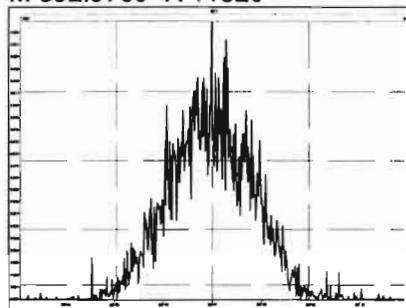
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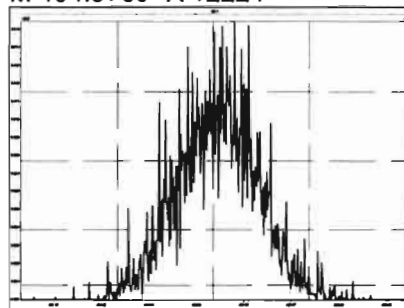
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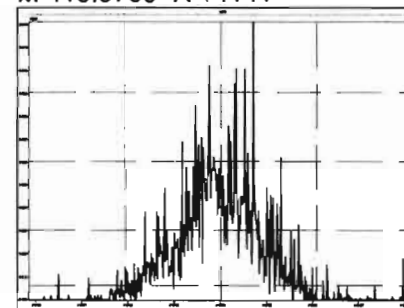
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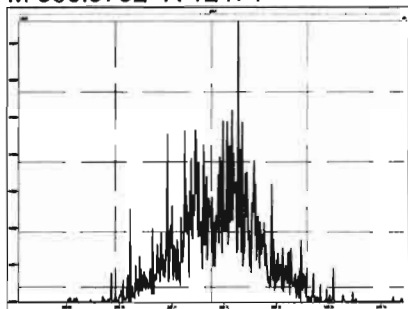
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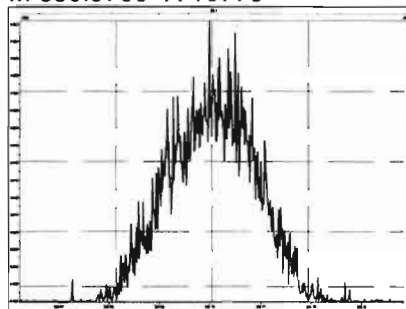
M 416.9760 R 14141



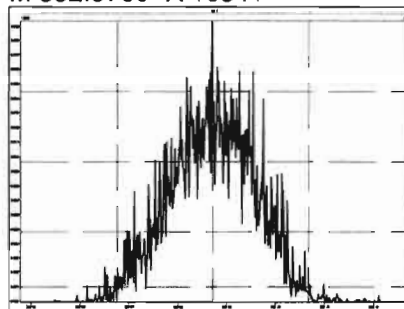
M 366.9792 R 12474



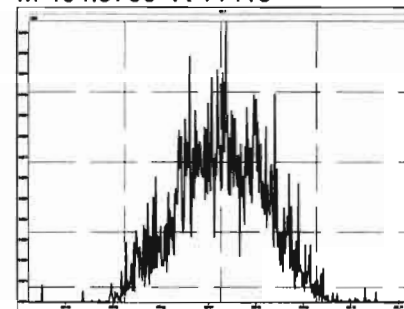
M 380.9760 R 10775



M 392.9760 R 10941

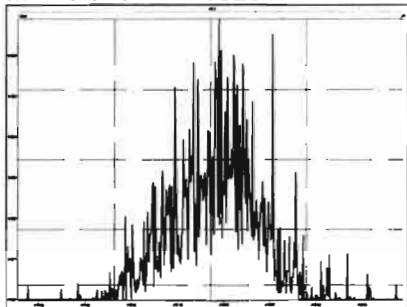


M 404.9760 R 11415

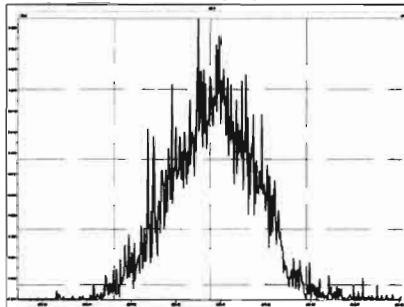


Printed: Wednesday, June 10, 2020 11:57:35 Pacific Daylight Time

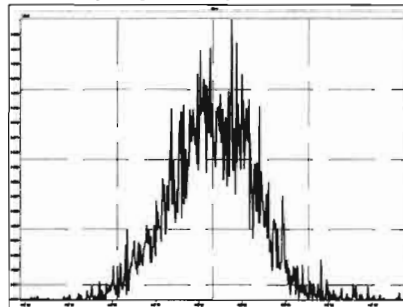
M 416.9760 R 13528



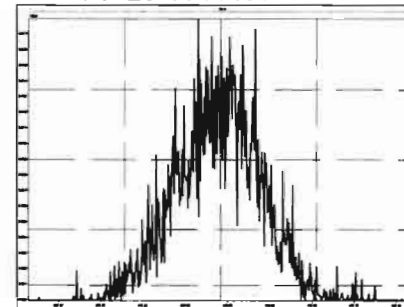
M 430.9728 R 10943



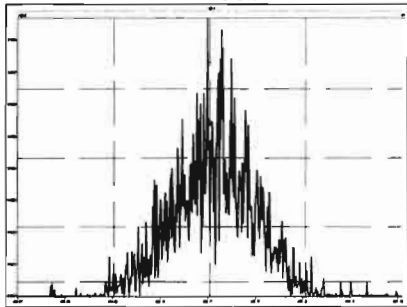
M 442.9728 R 11350



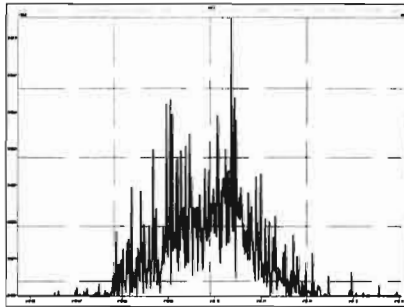
M 454.9728 R 11493



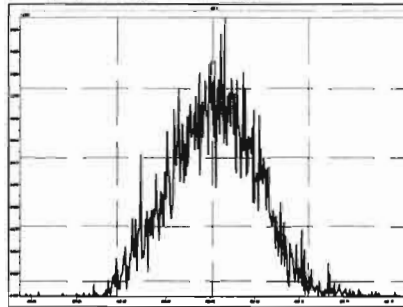
M 404.9760 R 12886



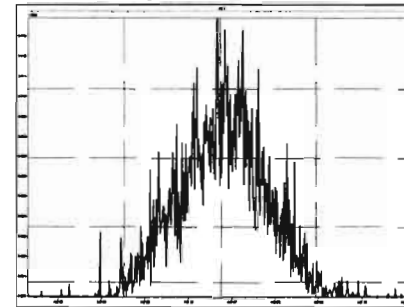
M 416.9760 R 15180



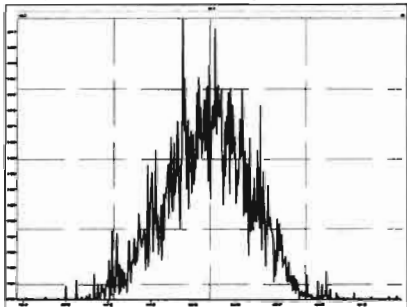
M 430.9728 R 11168



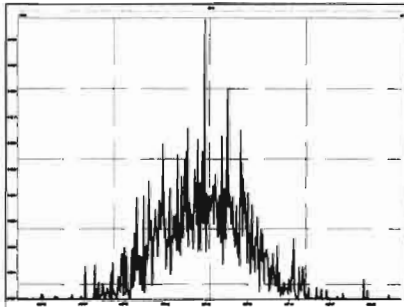
M 442.9728 R 11214



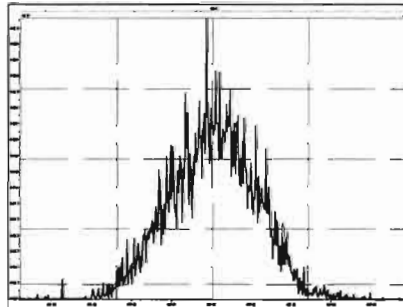
M 454.9728 R 11573



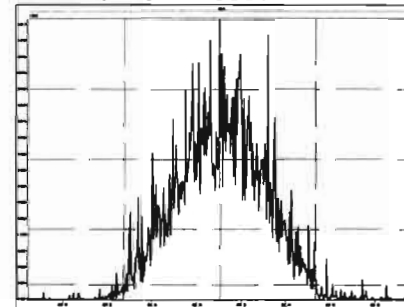
M 466.9728 R 13426



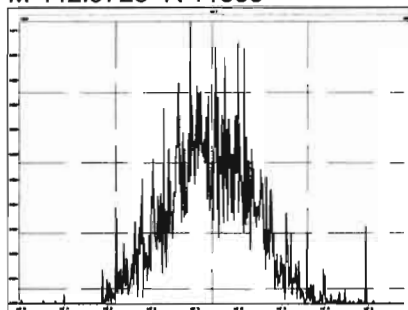
M 480.9696 R 10690



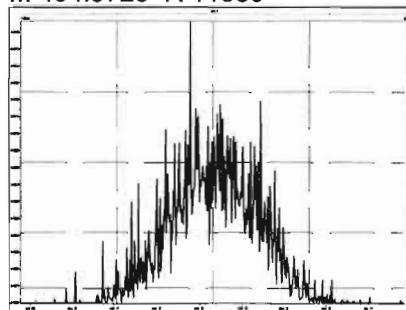
M 430.9728 R 10563



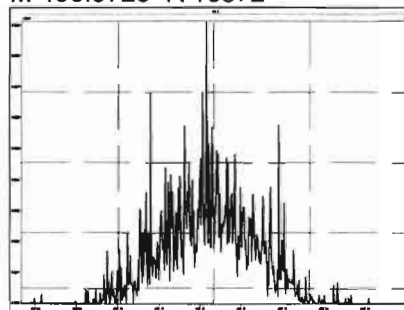
M 442.9728 R 11633



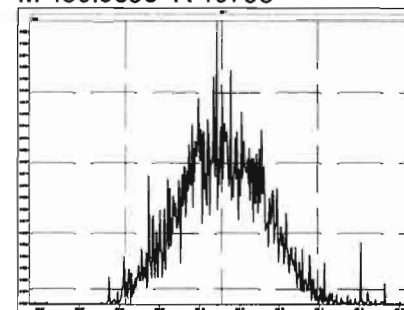
M 454.9728 R 11580



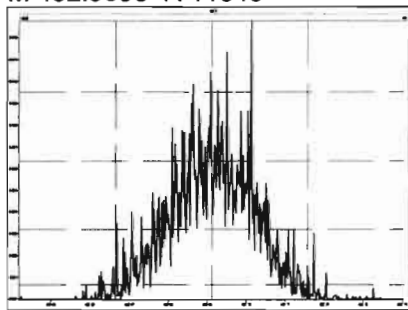
M 466.9728 R 13872



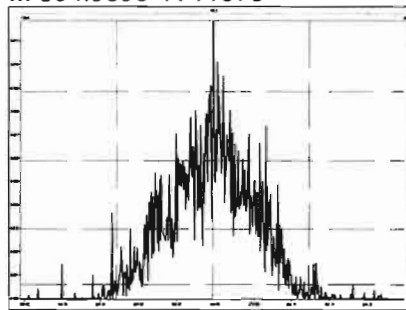
M 480.9696 R 10798



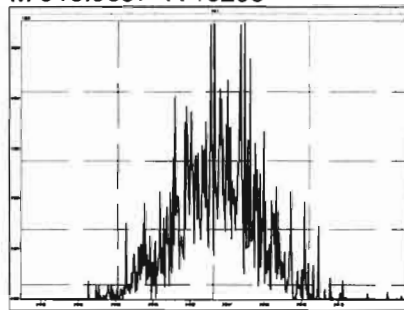
M 492.9696 R 11848



M 504.9696 R 11573



M 516.9697 R 15208



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200611R1-1

Reviewed By: C7 06/12/220
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"/> <u>NA</u>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>✓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>GRB</u>	<input type="checkbox"/>

Mass resolution ≥

5k 6-8K 8K 10K

1614 1699 429 1613/1668/8280

Intergrated peaks display correctly? NA

GC Break <20% NA

8280 CS1 End Standard:

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

Comments:

(A) END RES CHECK HAD 2 MASSES BELOW 10K RESOLUTION.

Dataset: U:\VG12.PRO\Results\200611R1\200611R1-1.qld

Last Altered: Thursday, June 11, 2020 10:12:46 AM Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:13:30 AM Pacific Daylight Time

GRB 06/11/2020

C1 06/12/2020

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

Name: 200611R1_1, Date: 11-Jun-2020, Time: 09:20:47, ID: ST200611R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	5.89e4	6.76e5	0.78	NO	0.888	26.50	26.48	NO	1.001	1.001	9.8106	98.1	NO
2	1,2,3,7,8-PeCDD	2.26e5	5.09e5	0.61	NO	0.908	31.46	31.45	NO	1.001	1.000	48.851	97.7	NO
3	1,2,3,4,7,8-HxCDD	2.15e5	4.24e5	1.24	NO	1.03	34.82	34.82	NO	1.000	1.000	49.020	98.0	NO
4	1,2,3,6,7,8-HxCDD	2.24e5	5.05e5	1.25	NO	0.892	34.91	34.92	NO	1.000	1.000	49.754	99.5	NO
5	1,2,3,7,8,9-HxCDD	2.06e5	4.73e5	1.23	NO	0.887	35.20	35.21	NO	1.000	1.001	49.133	98.3	NO
6	1,2,3,4,6,7,8-HpCDD	1.57e5	3.68e5	1.02	NO	0.864	38.74	38.75	NO	1.000	1.001	49.451	98.9	NO
7	OCDD	3.06e5	6.73e5	0.89	NO	0.914	41.71	41.73	NO	1.000	1.001	99.613	99.6	NO
8	2,3,7,8-TCDF	6.40e4	9.30e5	0.76	NO	0.751	25.60	25.60	NO	1.001	1.001	9.1572	91.6	NO
9	1,2,3,7,8-PeCDF	3.38e5	7.61e5	1.57	NO	0.893	30.18	30.17	NO	1.001	1.001	49.820	99.6	NO
10	2,3,4,7,8-PeCDF	3.29e5	7.08e5	1.57	NO	0.935	31.16	31.15	NO	1.001	1.000	49.648	99.3	NO
11	1,2,3,4,7,8-HxCDF	2.26e5	5.14e5	1.19	NO	0.884	33.93	33.94	NO	1.000	1.000	49.612	99.2	NO
12	1,2,3,6,7,8-HxCDF	2.44e5	5.46e5	1.21	NO	0.889	34.06	34.07	NO	1.000	1.001	50.228	100	NO
13	2,3,4,6,7,8-HxCDF	2.35e5	5.05e5	1.20	NO	0.934	34.68	34.66	NO	1.001	1.000	49.876	99.8	NO
14	1,2,3,7,8,9-HxCDF	1.91e5	4.30e5	1.21	NO	0.871	35.55	35.56	NO	1.000	1.000	51.004	102	NO
15	1,2,3,4,6,7,8-HpCDF	1.71e5	3.90e5	0.99	NO	0.873	37.36	37.33	NO	1.001	1.000	50.166	100	NO
16	1,2,3,4,7,8,9-HpCDF	1.35e5	2.68e5	1.00	NO	1.01	39.28	39.29	NO	1.000	1.000	49.954	99.9	NO
17	OCDF	2.76e5	6.77e5	0.86	NO	0.806	41.90	41.92	NO	1.000	1.001	101.12	101	NO
18	13C-2,3,7,8-TCDD	6.76e5	5.65e5	0.78	NO	1.16	26.49	26.47	NO	1.026	1.026	103.38	103	NO
19	13C-1,2,3,7,8-PeCDD	5.09e5	5.65e5	0.63	NO	0.849	31.67	31.44	NO	1.227	1.218	105.96	106	NO
20	13C-1,2,3,4,7,8-HxCDD	4.24e5	4.69e5	1.28	NO	0.779	34.81	34.81	NO	1.014	1.014	115.94	116	NO
21	13C-1,2,3,6,7,8-HxCDD	5.05e5	4.69e5	1.29	NO	1.02	34.92	34.91	NO	1.017	1.017	105.79	106	NO
22	13C-1,2,3,7,8,9-HxCDD	4.73e5	4.69e5	1.26	NO	0.903	35.19	35.19	NO	1.025	1.025	111.57	112	NO
23	13C-1,2,3,4,6,7,8-HpCDD	3.68e5	4.69e5	1.05	NO	0.689	38.72	38.72	NO	1.128	1.128	113.68	114	NO
24	13C-OCDD	6.73e5	4.69e5	0.87	NO	0.652	41.74	41.71	NO	1.216	1.215	219.76	110	NO
25	13C-2,3,7,8-TCDF	9.30e5	8.26e5	0.75	NO	1.06	25.53	25.57	NO	0.989	0.991	106.39	106	NO
26	13C-1,2,3,7,8-PeCDF	7.61e5	8.26e5	1.61	NO	0.838	30.06	30.15	NO	1.165	1.168	110.00	110	NO
27	13C-2,3,4,7,8-PeCDF	7.08e5	8.26e5	1.60	NO	0.817	31.01	31.13	NO	1.202	1.206	105.06	105	NO
28	13C-1,2,3,4,7,8-HxCDF	5.14e5	4.69e5	0.50	NO	1.01	33.94	33.93	NO	0.989	0.989	108.70	109	NO
29	13C-1,2,3,6,7,8-HxCDF	5.46e5	4.69e5	0.50	NO	1.17	34.07	34.05	NO	0.992	0.992	99.625	99.6	NO
30	13C-2,3,4,6,7,8-HxCDF	5.05e5	4.69e5	0.51	NO	1.02	34.64	34.65	NO	1.009	1.009	105.29	105	NO
31	13C-1,2,3,7,8,9-HxCDF	4.30e5	4.69e5	0.50	NO	0.860	35.54	35.55	NO	1.035	1.036	106.69	107	NO

Dataset: U:\VG12.PRO\Results\200611R1\200611R1-1.qld

Last Altered: Thursday, June 11, 2020 10:12:46 AM Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:13:30 AM Pacific Daylight Time

Name: 200611R1_1, Date: 11-Jun-2020, Time: 09:20:47, ID: ST200611R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	3.90e5	4.69e5	0.42	NO	0.774	37.28	37.32	NO	1.086	1.087	107.25	107	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.68e5	4.69e5	0.42	NO	0.521	39.31	39.28	NO	1.145	1.144	109.41	109	NO
34	13C-OCDF	6.77e5	4.69e5	0.88	NO	0.746	41.91	41.90	NO	1.221	1.221	193.39	96.7	NO
35	37Cl-2,3,7,8-TCDD	6.12e4	5.65e5			1.04	26.52	26.48	NO	1.028	1.026	10.435	104	NO
36	13C-1,2,3,4-TCDD	5.65e5	5.65e5	0.79	NO	1.00	25.89	25.81	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	8.26e5	8.26e5	0.78	NO	1.00	24.36	24.13	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	4.69e5	4.69e5	0.51	NO	1.00	34.42	34.33	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Friday, June 12, 2020 10:30:06 AM Pacific Daylight Time

Printed: Friday, June 12, 2020 10:30:32 AM Pacific Daylight Time

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

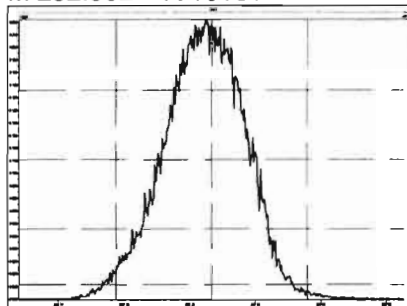
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200611R1_1	ST200611R1_1 1613 CS3 19L2305	11-Jun-20	09:20:47
2	200611R1_2	B0E0202-BS1 OPR 1	11-Jun-20	10:09:55
3	200611R1_3	B0F0002-BS1 OPR 1	11-Jun-20	10:56:07
4	200611R1_4	B0F0033-BS1 OPR 1	11-Jun-20	11:42:18
5	200611R1_5	B0F0033-BS1 OPR 1	11-Jun-20	12:29:22
6	200611R1_6	SOLVENT BLANK	11-Jun-20	13:17:03
7	200611R1_7	B0E0202-BLK1 Method Blank 1	11-Jun-20	14:03:19
8	200611R1_8	B0F0002-BLK1 Method Blank 1	11-Jun-20	14:49:34
9	200611R1_9	B0F0033-BLK1 Method Blank 1	11-Jun-20	15:35:49
10	200611R1_10	2001126-01 20-39 Secondary Effluent #001 1....	11-Jun-20	16:22:02
11	200611R1_11	2001160-01 Bleach Plant Effluent 0.86608	11-Jun-20	17:08:13
12	200611R1_12	2001076-01RE1 YZ03780-YC EFF COMP 0.9...	11-Jun-20	17:54:24
13	200611R1_13	2001075-01RE1 YZ03783-YC INF COMP 0.95...	11-Jun-20	18:40:35
14	200611R1_14	2001127-01 20040610-01 0.89988	11-Jun-20	19:26:48
15	200611R1_15	2001034-02@5X PDI-085SC-B-02-05-200508 ...	11-Jun-20	20:12:59

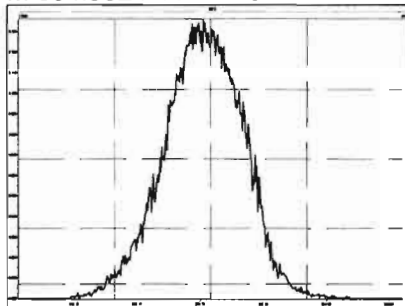
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, June 11, 2020 09:15:24 Pacific Daylight Time

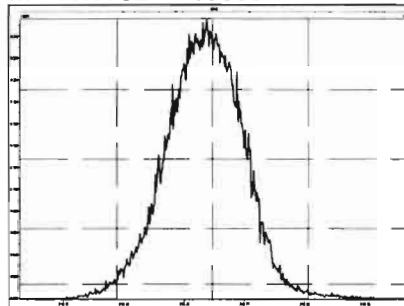
M 292.9824 R 10161



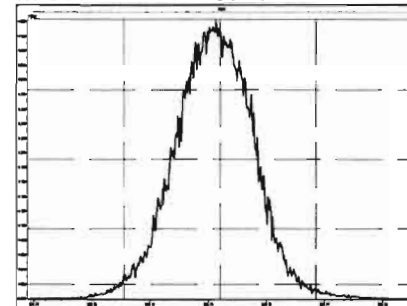
M 304.9824 R 10370



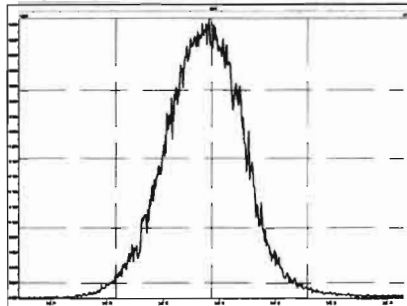
M 318.9792 R 10593



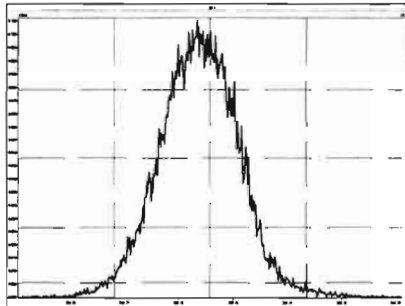
M 330.9792 R 10727



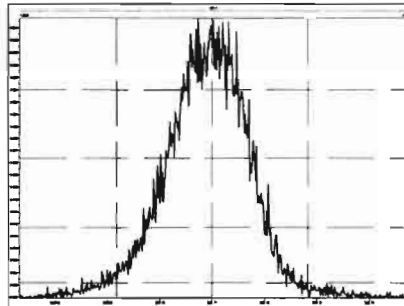
M 342.9792 R 10288



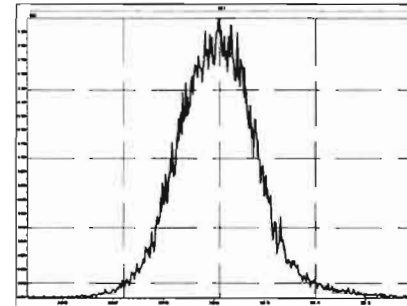
M 354.9792 R 10868



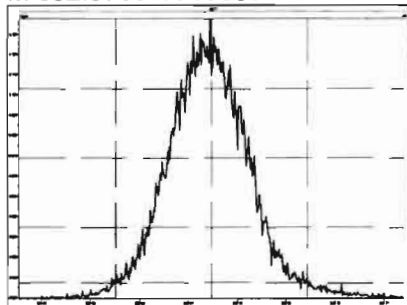
M 366.9792 R 10819



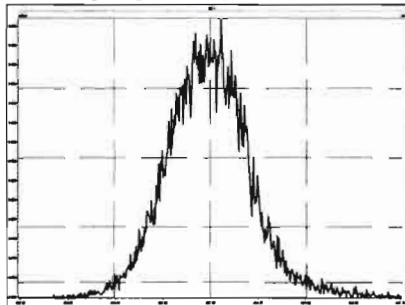
M 380.9760 R 10637



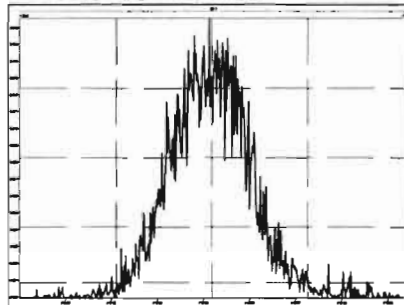
M 392.9760 R 10685



M 404.9760 R 11013



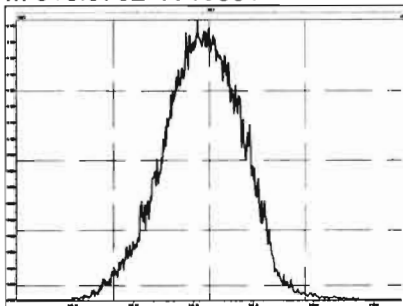
M 416.9760 R 11680



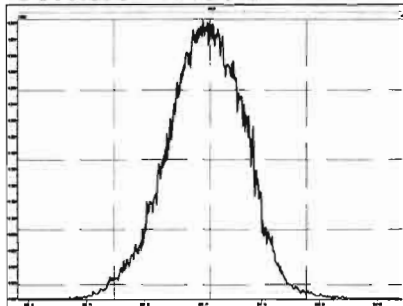
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, June 11, 2020 09:16:08 Pacific Daylight Time

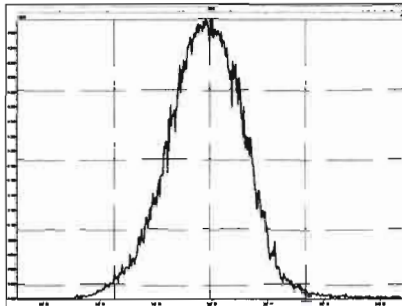
M 318.9792 R 10331



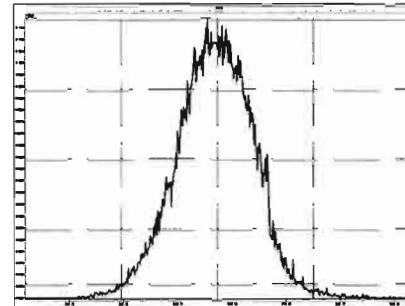
M 330.9792 R 10415



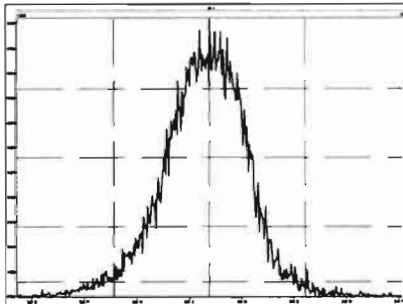
M 342.9792 R 10505



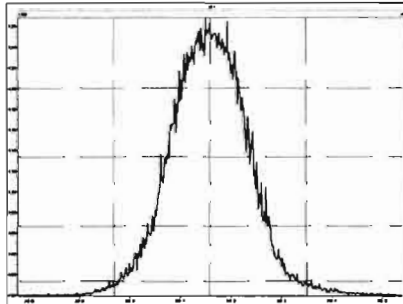
M 354.9792 R 10728



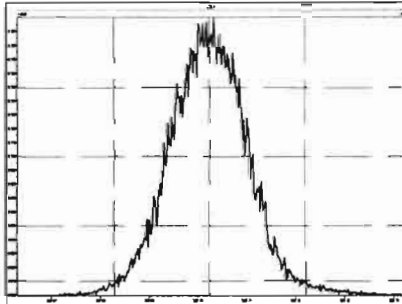
M 366.9792 R 10164



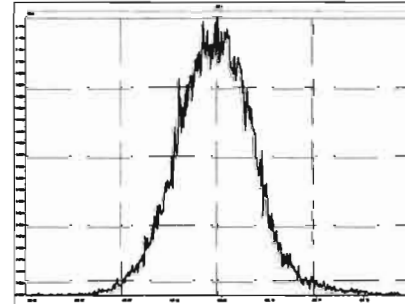
M 380.9760 R 10684



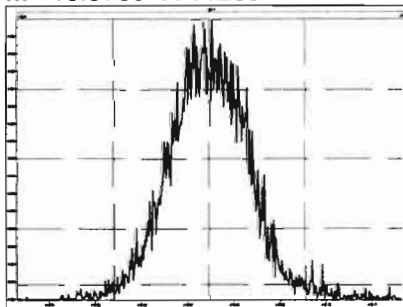
M 392.9760 R 10591



M 404.9760 R 10965



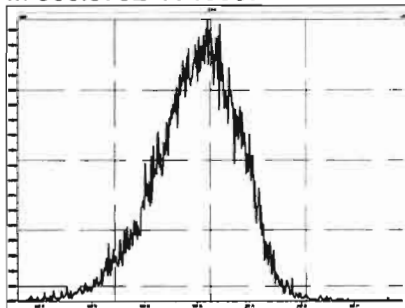
M 416.9760 R 11260



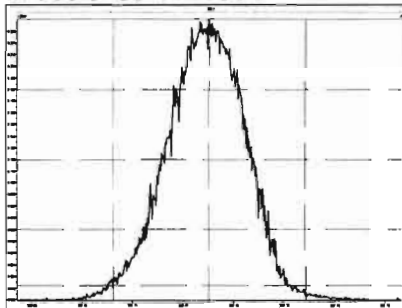
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, June 11, 2020 09:16:46 Pacific Daylight Time

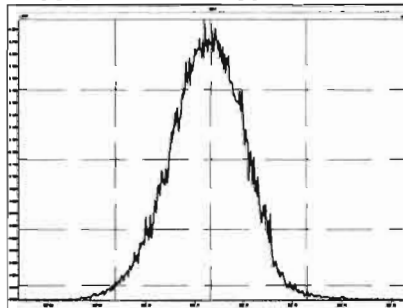
M 366.9792 R 10037



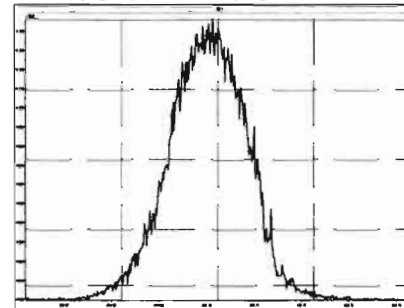
M 380.9760 R 11062



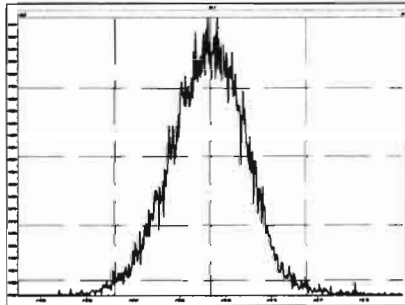
M 392.9760 R 11163



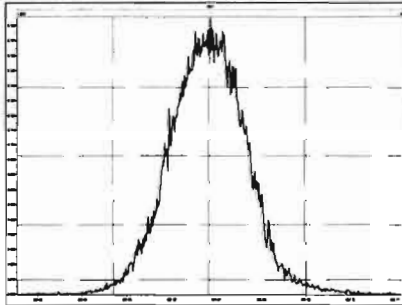
M 404.9760 R 11416



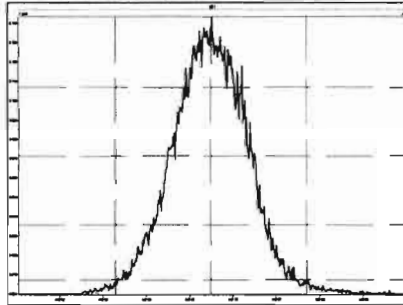
M 416.9760 R 11414



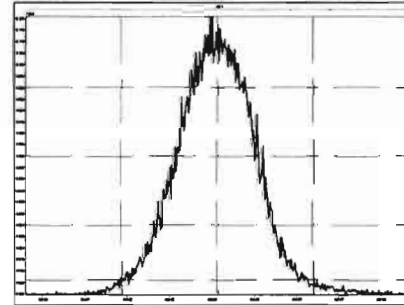
M 430.9728 R 11959



M 442.9728 R 10964



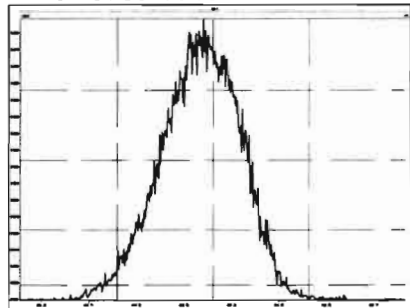
M 454.9728 R 11417



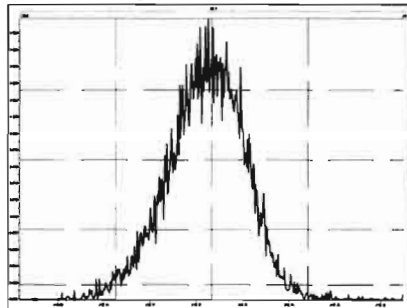
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, June 11, 2020 09:17:13 Pacific Daylight Time

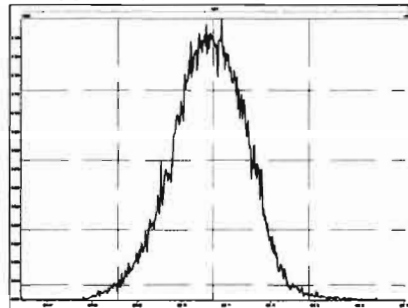
M 404.9760 R 10462



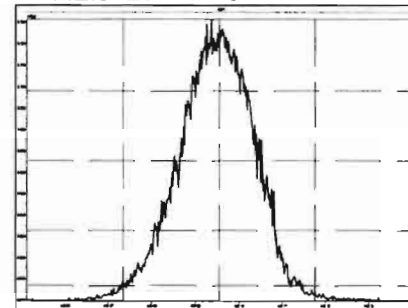
M 416.9760 R 11737



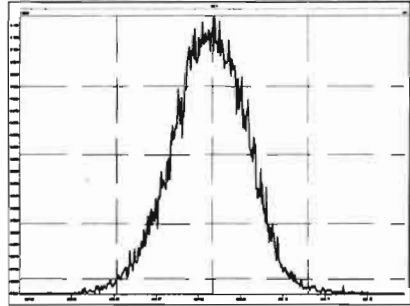
M 430.9728 R 11470



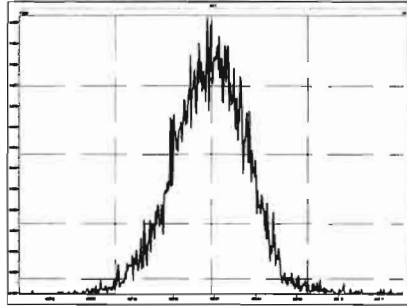
M 442.9728 R 11014



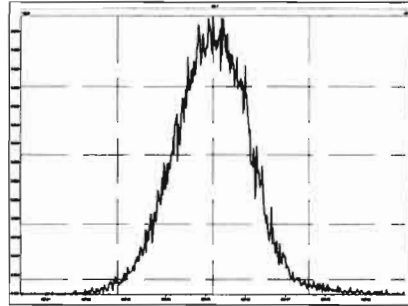
M 454.9728 R 10916



M 466.9728 R 12192



M 480.9696 R 11210



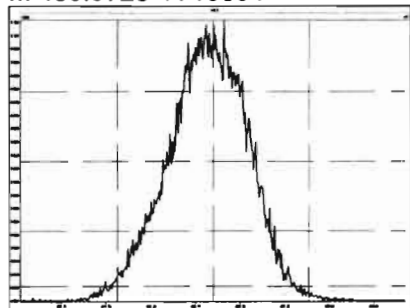
Experiment Calibration Report

MassLynx 4.1 SCN815

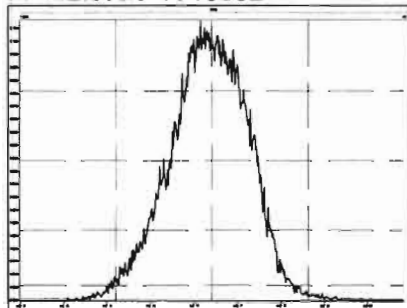
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, June 11, 2020 09:18:07 Pacific Daylight Time

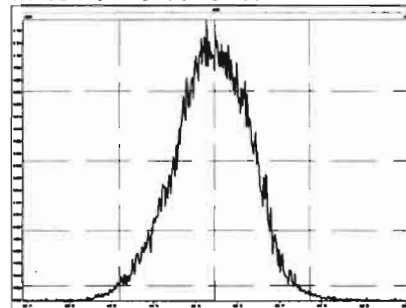
M 430.9728 R 10504



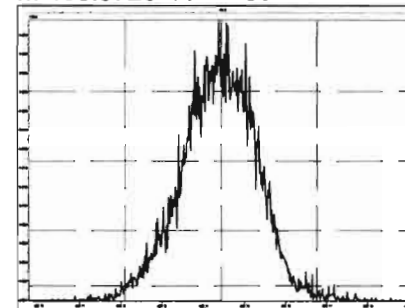
M 442.9728 R 10682



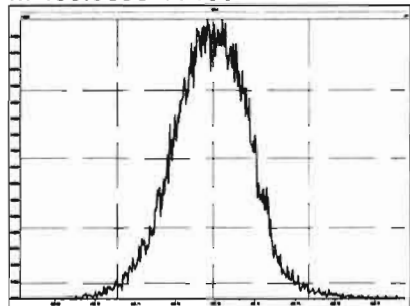
M 454.9728 R 10417



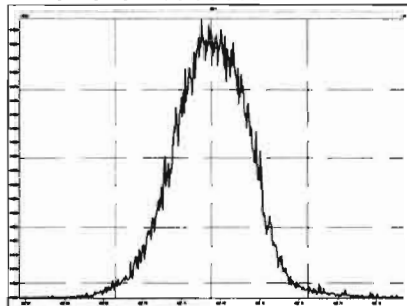
M 466.9728 R 11260



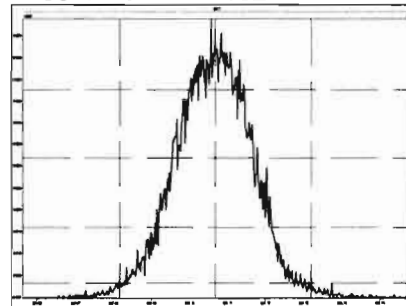
M 480.9696 R 10824



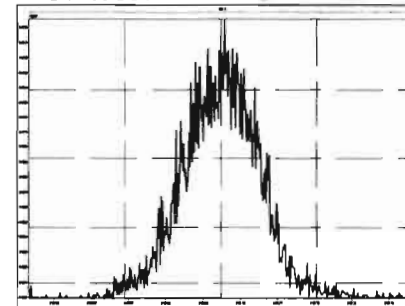
M 492.9696 R 11415



M 504.9696 R 11162



M 516.9697 R 11849



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, June 11, 2020 10:08:28 AM Pacific Daylight Time

Printed: Thursday, June 11, 2020 10:08:41 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

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

Name: 200611R1_1, Date: 11-Jun-2020, Time: 09:20:47, ID: ST200611R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	22.46
2	1,2,8,9-TCDD (Last)	27.44
3	1,2,4,7,9-PeCDD (First)	29.24
4	1,2,3,8,9-PeCDD (Last)	31.83
5	1,2,4,6,7,9-HxCDD (First)	33.31
6	1,2,3,7,8,9-HxCDD (Last)	35.21
7	1,2,3,4,6,7,9-HpCDD (First)	37.72
8	1,2,3,4,6,7,8-HpCDD (Last)	38.75
9	1,3,6,8-TCDF (First)	20.33
10	1,2,8,9-TCDF (Last)	27.61
11	1,3,4,6,8-PeCDF (First)	27.56
12	1,2,3,8,9-PeCDF (Last)	32.08
13	1,2,3,4,6,8-HxCDF (First)	32.77
14	1,2,3,7,8,9-HxCDF (Last)	35.56
15	1,2,3,4,6,7,8-HpCDF (First)	37.33
16	1,2,3,4,7,8,9-HpCDF (Last)	39.29

Dataset: Untitled

Last Altered: Thursday, June 11, 2020 10:08:28 AM Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:08:41 AM Pacific Daylight Time

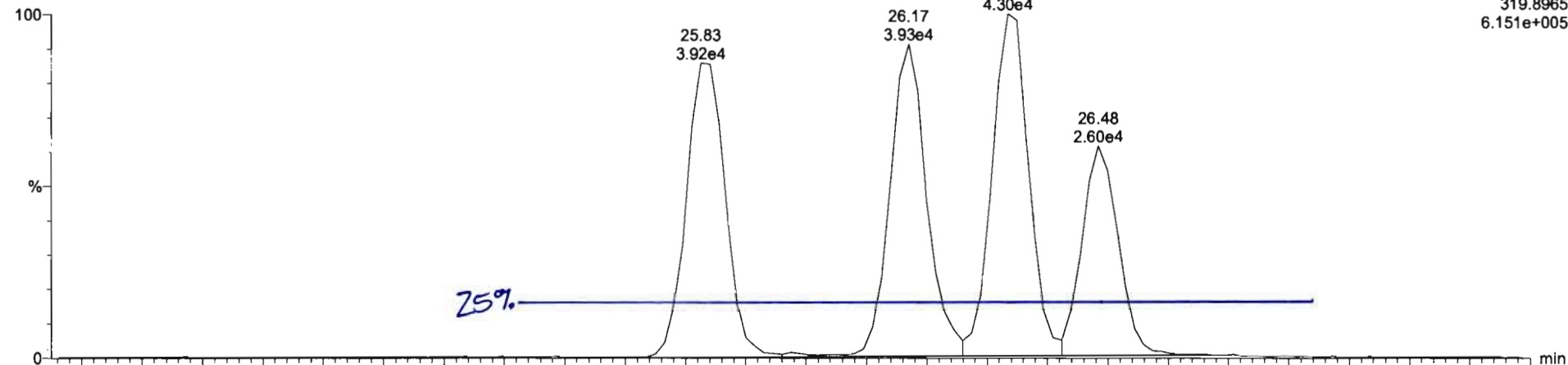
GPB 06/11/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

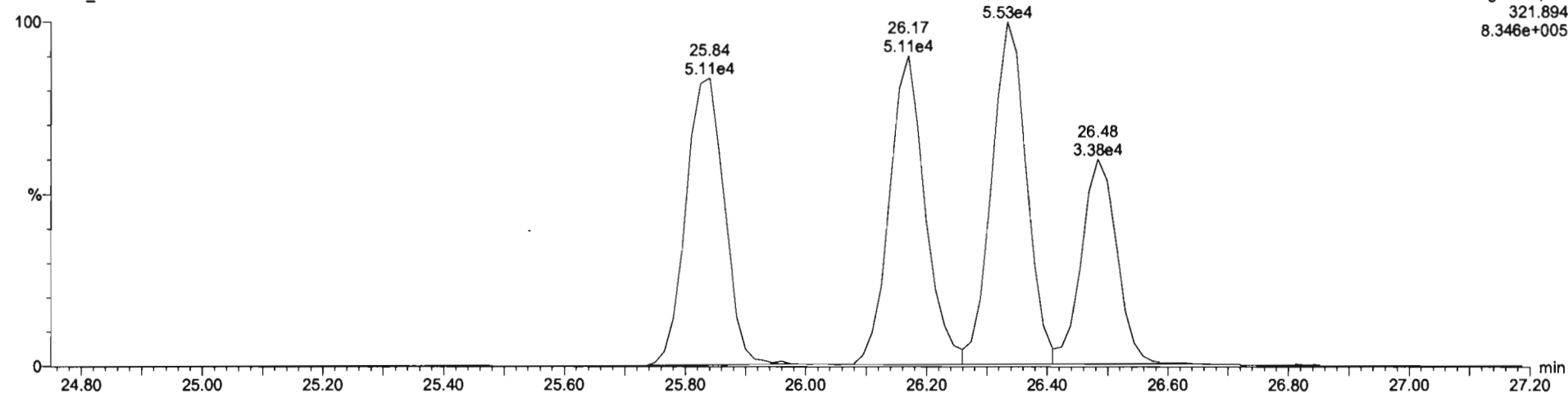
Name: 200611R1_1, Date: 11-Jun-2020, Time: 09:20:47, ID: ST200611R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200611R1_1



200611R1_1



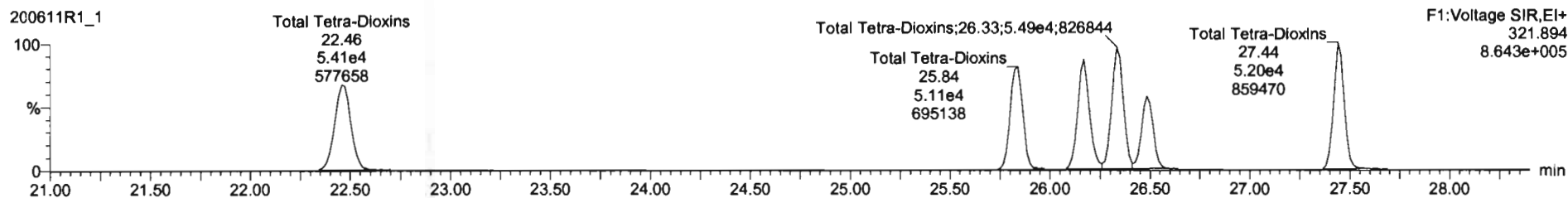
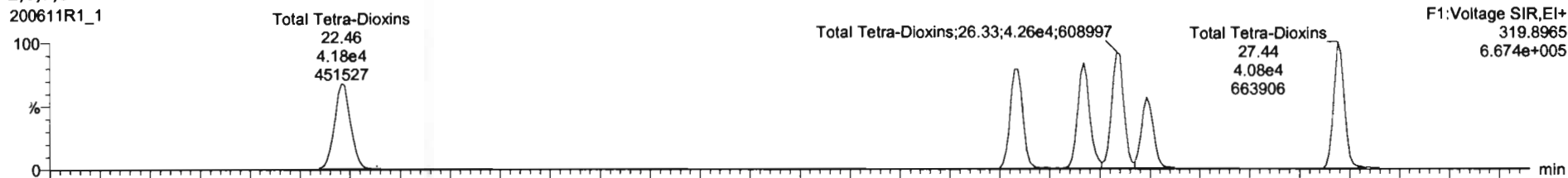
Dataset: Untitled

Last Altered: Thursday, June 11, 2020 10:10:18 AM Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:10:28 AM Pacific Daylight Time

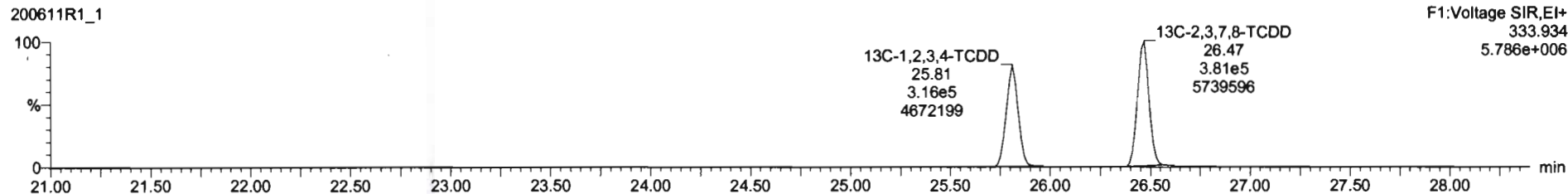
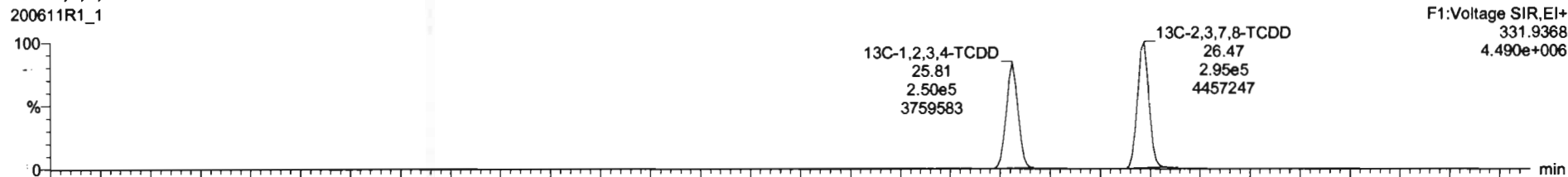
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Name: 200611R1_1, Date: 11-Jun-2020, Time: 09:20:47, ID: ST200611R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

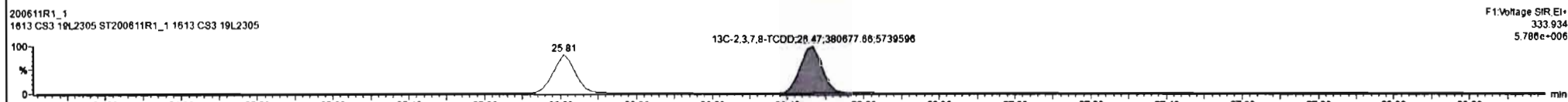
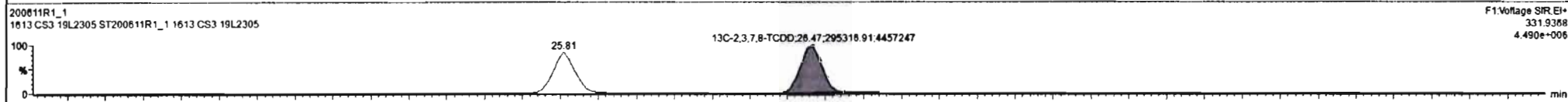
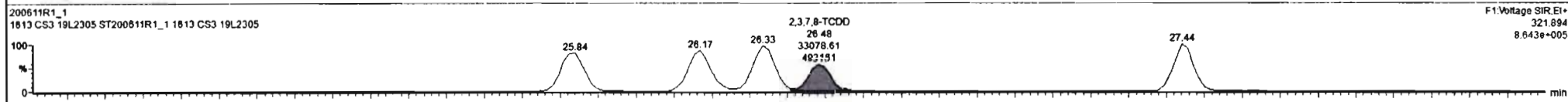
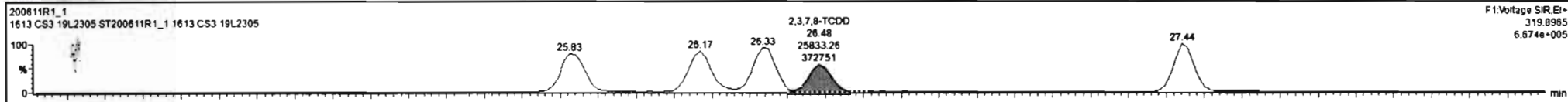
2,3,7,8-TCDD



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



#	Name	Time	IS Time	Prod RA	RA	nly	RF	Prod RT	RT	RT Flag	Prod RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	2.26e5	5.09e5	0.63	0.61	NO	0.9991	31.46	31.45	NO	1.001	1.001	9.81	98.1	NO
2	1,2,3,7,8-PeCDD	2.26e5	5.09e5	0.63	0.61	NO	0.9991	31.46	31.45	NO	1.001	1.000	48.9	97.7	NO
3	1,2,3,4,7,8-HxCDD	2.15e5	4.24e5	1.24	1.24	NO	1.0334	34.62	34.62	NO	1.000	1.000	49.0	98.0	NO
4	1,2,3,6,7,8-HxCDD	2.24e5	5.05e5	1.24	1.25	NO	0.8923	34.81	34.92	NO	1.000	1.000	49.8	99.5	NO
5	1,2,3,7,8,9-HxCDD	2.08e5	4.73e5	1.24	1.23	NO	0.8869	35.20	35.21	NO	1.000	1.001	49.1	98.3	NO
6	1,2,3,4,6,7,8-HpCDD	1.57e5	3.68e5	1.04	1.02	NO	0.8639	36.74	36.75	NO	1.000	1.001	49.5	98.9	NO
7	OCDD	3.09e5	6.77e5	0.89	0.91	NO	0.9136	41.71	41.73	NO	1.000	1.001	99.9	99.9	NO
8	2,3,7,8-TCDF	6.40e4	9.30e5	0.77	0.76	NO	0.7510	25.60	25.60	NO	1.001	1.001	9.16	91.6	NO
9	1,2,3,7,8-PeCDF	3.35e5	7.81e5	1.55	1.57	NO	0.8925	30.18	30.17	NO	1.001	1.001	49.8	99.6	NO
10	2,3,4,7,8-PeCDF	3.29e5	7.08e5	1.55	1.57	NO	0.9348	31.16	31.15	NO	1.001	1.000	49.8	99.3	NO
11	1,2,3,4,7,8-HxCDF	2.26e5	5.14e5	1.24	1.19	NO	0.8845	33.93	33.94	NO	1.000	1.000	49.8	99.2	NO
12	1,2,3,6,7,8-HxCDF	2.44e5	5.48e5	1.24	1.21	NO	0.8992	34.06	34.07	NO	1.000	1.001	50.2	100	NO
13	2,3,4,6,7,8-HxCDF	2.35e5	5.05e5	1.24	1.20	NO	0.9341	34.68	34.66	NO	1.001	1.000	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	1.91e5	4.30e5	1.24	1.21	NO	0.8707	35.55	35.56	NO	1.000	1.000	51.0	102	NO
15	1,2,3,4,6,7,8-HpCDF	1.71e5	3.90e5	1.04	0.99	NO	0.8734	37.36	37.33	NO	1.001	1.000	50.2	100	NO
16	1,2,3,4,7,8,9-HpCDF	1.35e5	2.68e5	1.04	1.00	NO	1.0128	39.28	39.29	NO	1.000	1.000	50.0	99.9	NO
17	OCDF	2.76e5	6.77e5	0.89	0.86	NO	0.8065	41.90	41.92	NO	1.000	1.001	101	101	NO
18	13C-2,3,7,8-TCDD	6.76e5	5.65e5	0.77	0.78	NO	1.1563	26.49	26.47	NO	1.026	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	5.09e5	5.65e5	0.63	0.63	NO	0.8490	31.67	31.44	NO	1.227	1.218	106	106	NO
20	13C-1,2,3,4,7,8-HxCDD	4.24e5	4.89e5	1.24	1.28	NO	0.7790	34.81	34.81	NO	1.014	1.014	118	116	NO
21	13C-1,2,3,6,7,8-HxCDD	5.05e5	4.89e5	1.24	1.29	NO	1.0167	34.92	34.91	NO	1.017	1.017	108	108	NO



Dataset: Untitled

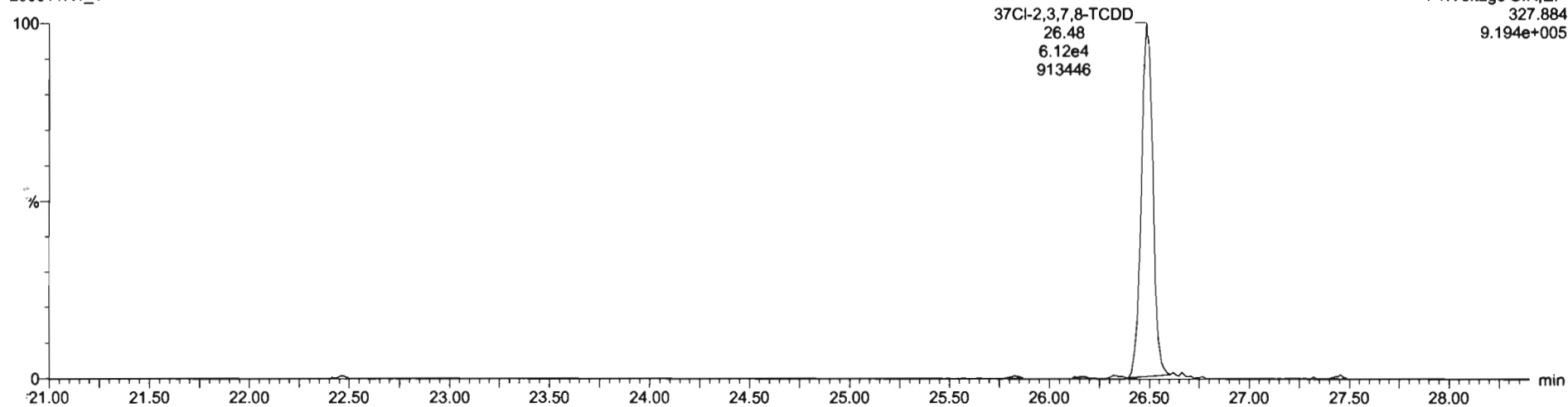
Last Altered: Thursday, June 11, 2020 10:10:18 AM Pacific Daylight Time

Printed: Thursday, June 11, 2020 10:10:28 AM Pacific Daylight Time

Name: 200611R1_1, Date: 11-Jun-2020, Time: 09:20:47, ID: ST200611R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

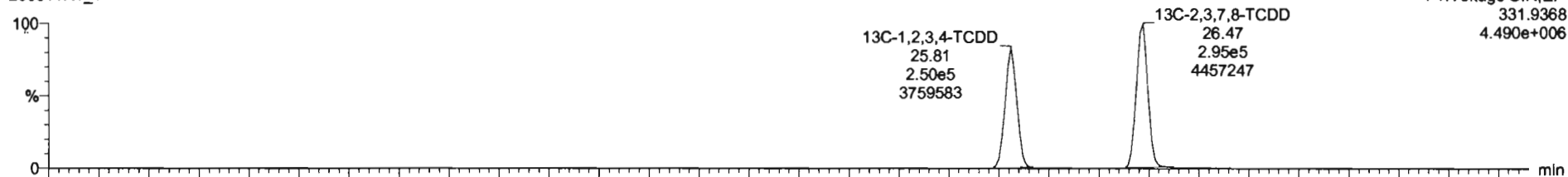
37Cl-2,3,7,8-TCDD

200611R1_1

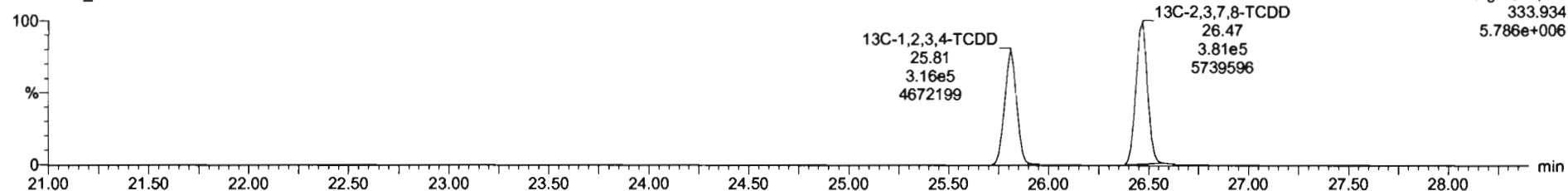


13C-1,2,3,4-TCDD

200611R1_1



200611R1_1



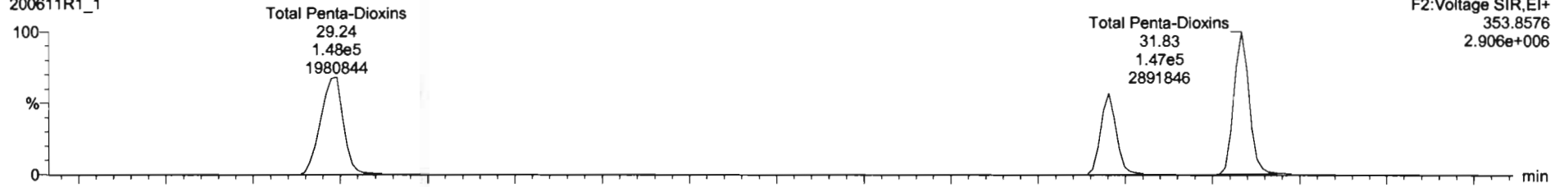
Dataset: Untitled

Last Altered: Thursday, June 11, 2020 10:10:18 AM Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:10:28 AM Pacific Daylight Time

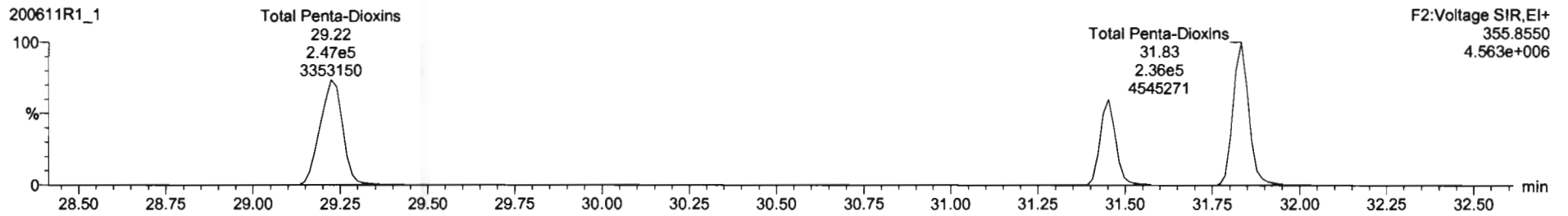
Name: 200611R1_1, Date: 11-Jun-2020, Time: 09:20:47, ID: ST200611R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200611R1_1

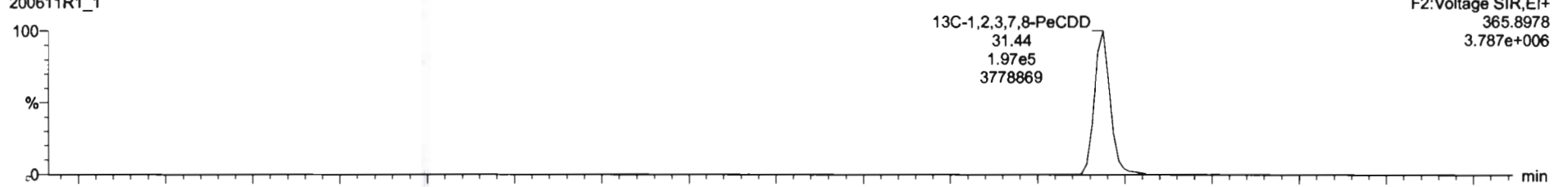


200611R1_1

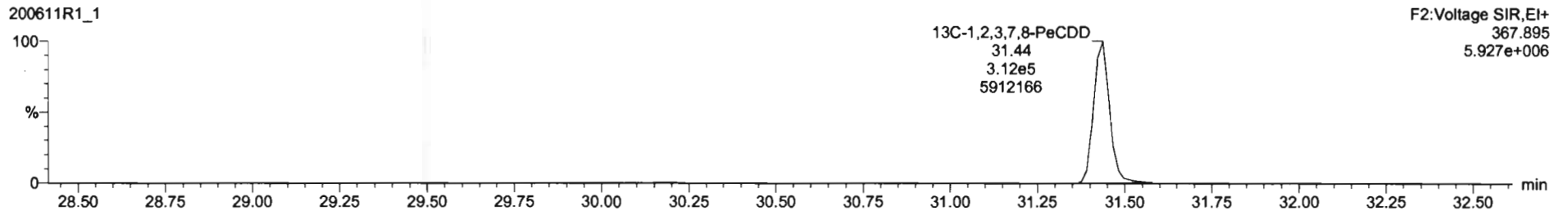


13C-1,2,3,7,8-PeCDD

200611R1_1



200611R1_1



Dataset: Untitled

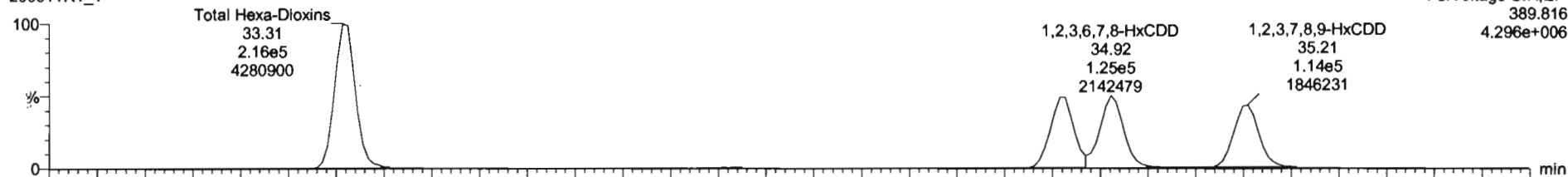
Last Altered: Thursday, June 11, 2020 10:10:18 AM Pacific Daylight Time

Printed: Thursday, June 11, 2020 10:10:28 AM Pacific Daylight Time

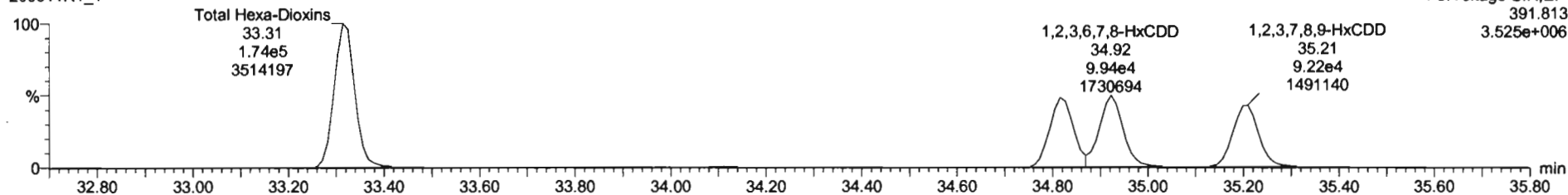
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1,2,3,4,7,8-HxCDD

200611R1_1

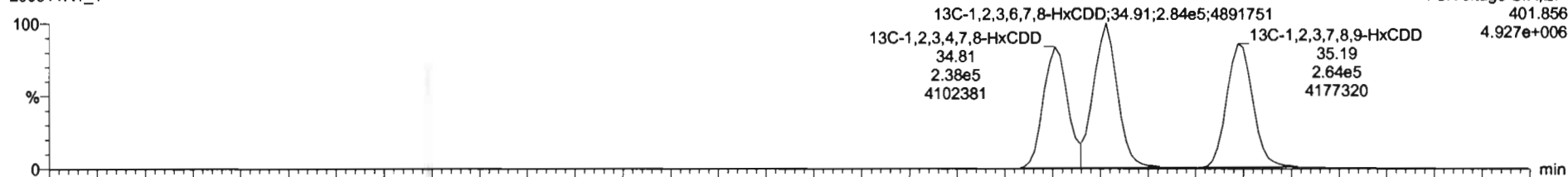


200611R1_1

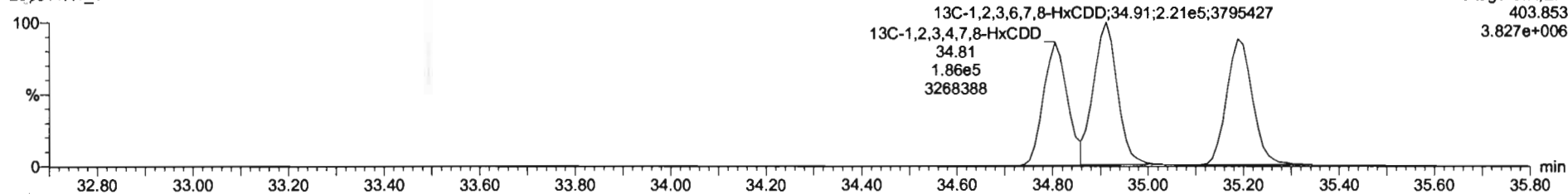


13C-1,2,3,4,7,8-HxCDD

200611R1_1



200611R1_1



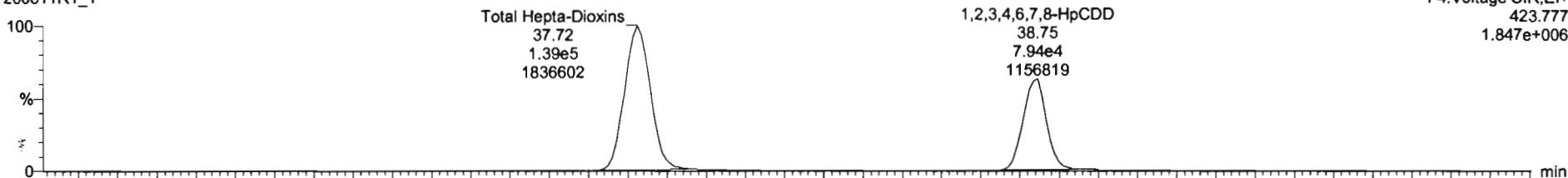
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Last Altered: Thursday, June 11, 2020 10:10:18 AM Pacific Daylight Time
Printed: Thursday, June 11, 2020 10:10:28 AM Pacific Daylight Time

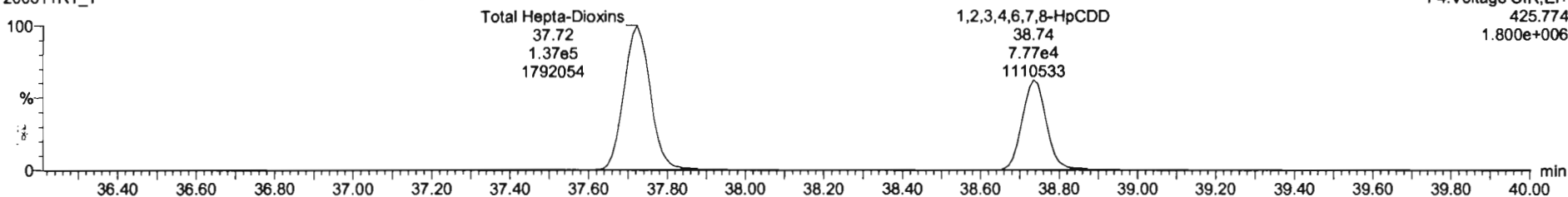
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1,2,3,4,6,7,8-HpCDD

200611R1_1

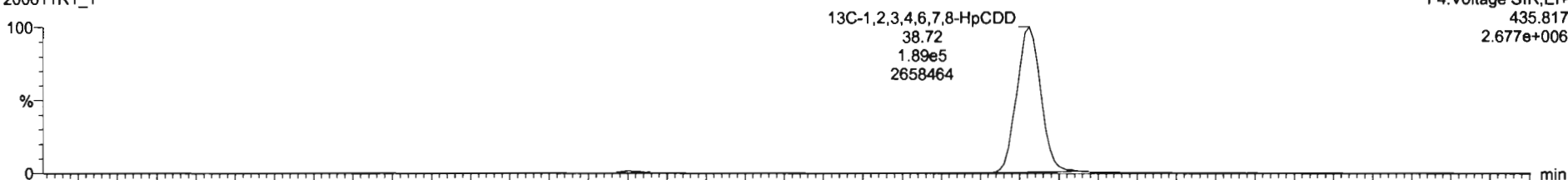


200611R1_1

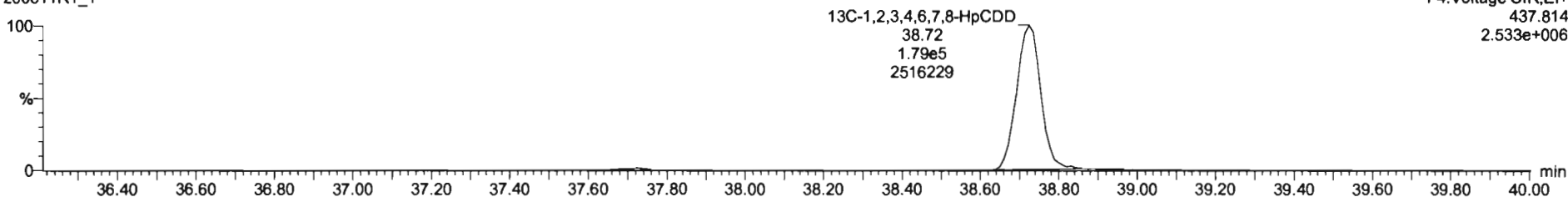


13C-1,2,3,4,6,7,8-HpCDD

200611R1_1



200611R1_1



Dataset: Untitled

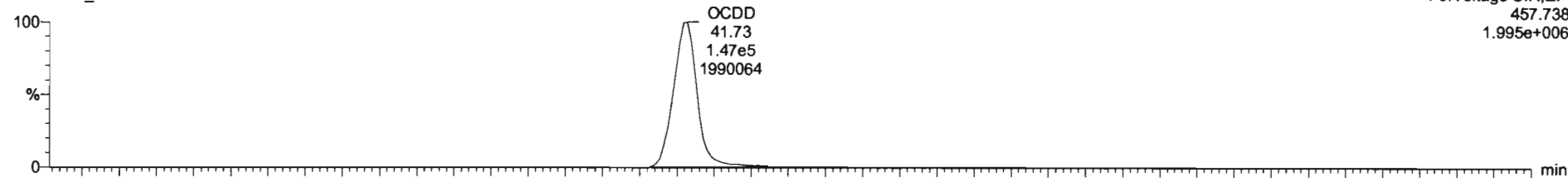
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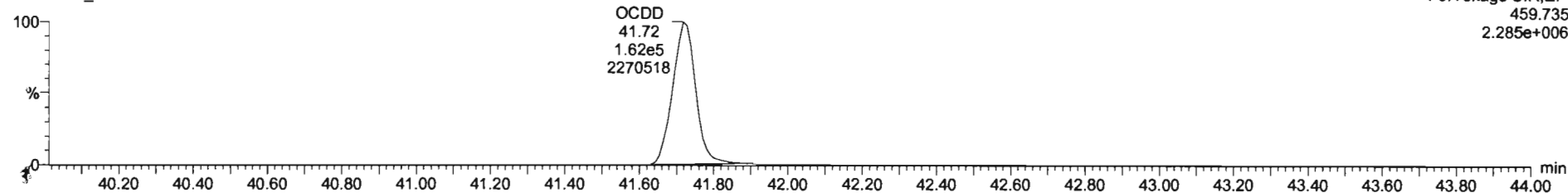
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OCDD

200611R1_1

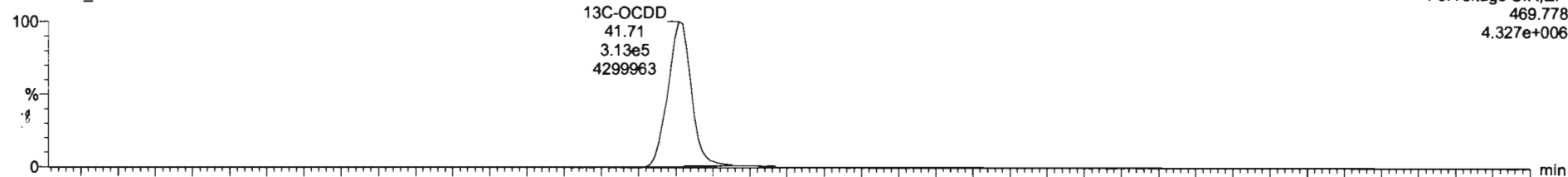


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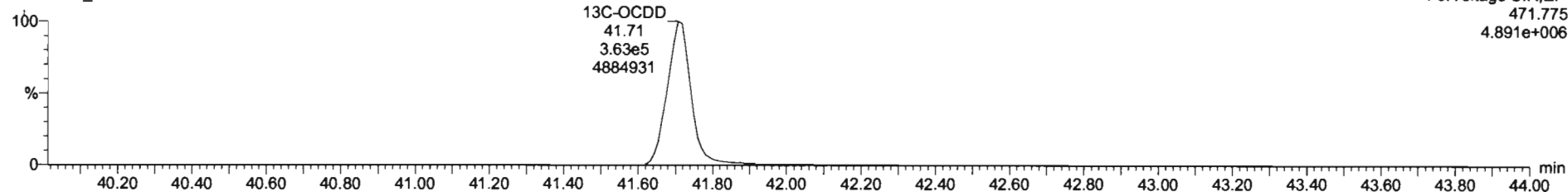


13C-OCDD

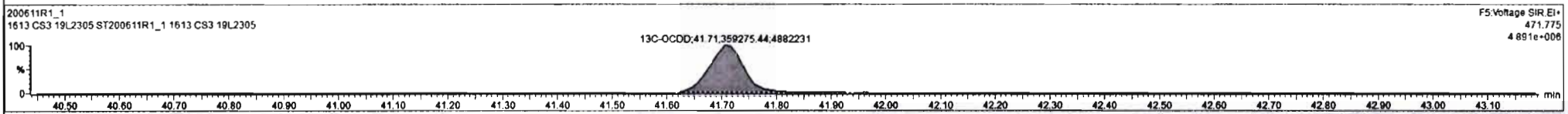
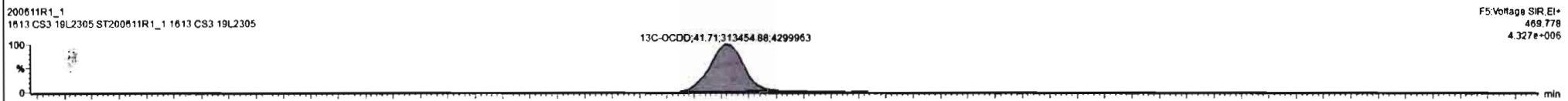
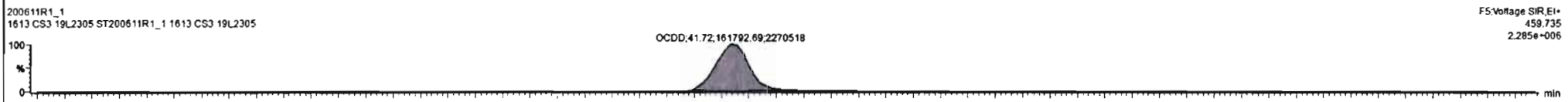
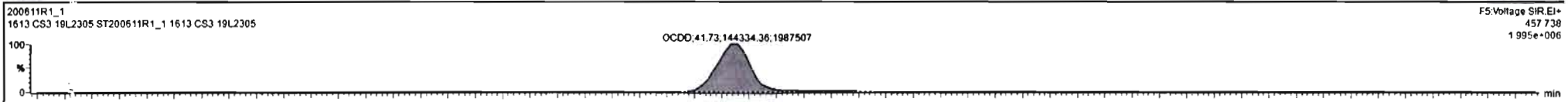
200611R1_1



200611R1_1



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RPV	Pred RT	RT	RT Flag	Pred.RRT	RRT	Comp	%Rec	STD err
1	1,2,3,7,8-TCDD	5.88e4	6.78e5	0.77	0.78	NO	0.8883	26.50	26.48	NO	1.001	1.001	9.81	98.1	NO
2	1,2,3,7,8-PeCDD	2.26e5	5.09e5	0.83	0.81	NO	0.9081	31.48	31.45	NO	1.001	1.000	48.9	97.7	NO
3	1,2,3,4,7,8-HxCDD	2.15e5	4.24e5	1.24	1.24	NO	1.0334	34.82	34.82	NO	1.000	1.000	49.0	98.0	NO
4	1,2,3,6,7,8-HxCDD	2.24e5	5.05e5	1.24	1.25	NO	0.8923	34.91	34.92	NO	1.000	1.000	49.8	99.5	NO
5	1,2,3,7,8,9-HxCDD	2.06e5	4.73e5	1.24	1.23	NO	0.8889	35.20	35.21	NO	1.000	1.001	49.1	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	1.57e5	3.88e5	1.04	1.02	NO	0.8639	36.74	36.75	NO	1.000	1.001	49.5	98.9	NO
7	OCDD	3.62e5	8.75e5	0.89	0.88	NO	0.9130	41.71	41.73	NO	1.000	1.001	50.8	99.8	NO
8	2,3,7,8-TCDF	6.40e4	9.30e5	0.77	0.76	NO	0.7510	25.60	25.60	NO	1.001	1.001	9.16	91.6	NO
9	1,2,3,7,8-PeCDF	3.38e5	7.81e5	1.55	1.57	NO	0.8925	30.18	30.17	NO	1.001	1.001	49.6	99.6	NO
10	2,3,4,7,8-PeCDF	3.29e5	7.08e5	1.55	1.57	NO	0.9348	31.16	31.15	NO	1.001	1.000	49.8	99.3	NO
11	1,2,3,4,7,8-HxCDF	2.26e5	5.14e5	1.24	1.19	NO	0.8845	33.93	33.94	NO	1.000	1.000	49.6	99.2	NO
12	1,2,3,6,7,8-HxCDF	2.44e5	5.48e5	1.24	1.21	NO	0.8892	34.08	34.07	NO	1.000	1.001	50.2	100	NO
13	2,3,4,6,7,8-HxCDF	2.35e5	5.05e5	1.24	1.20	NO	0.9341	34.66	34.66	NO	1.001	1.000	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	1.81e5	4.30e5	1.24	1.21	NO	0.8707	35.55	35.56	NO	1.000	1.000	51.0	102	NO
15	1,2,3,4,6,7,8-HpCDF	1.71e5	3.90e5	1.04	0.99	NO	0.8734	37.36	37.33	NO	1.001	1.000	50.2	100	NO
16	1,2,3,4,7,8,9-HpCDF	1.35e5	2.88e5	1.04	1.00	NO	1.0128	39.28	39.29	NO	1.000	1.000	50.0	99.9	NO
17	OCDF	2.76e5	6.77e5	0.89	0.88	NO	0.8065	41.90	41.92	NO	1.000	1.001	101	101	NO
18	13C-2,3,7,8-TCDD	6.76e5	5.85e5	0.77	0.78	NO	1.1563	26.49	26.47	NO	1.026	1.026	103	103	NO
19	13C-1,2,3,7,8-PeCDD	5.09e5	5.85e5	0.83	0.83	NO	0.8490	31.67	31.44	NO	1.227	1.218	106	106	NO
20	13C-1,2,3,4,7,8-HxCDD	4.24e5	4.89e5	1.24	1.28	NO	0.7790	34.81	34.81	NO	1.014	1.014	116	116	NO
21	13C-1,2,3,6,7,8-HxCDD	5.05e5	4.89e5	1.24	1.29	NO	1.0167	34.92	34.91	NO	1.017	1.017	108	108	NO



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200611R1_1 CAP NUM

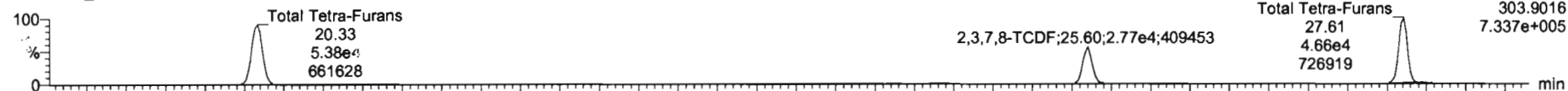
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Printed: Thursday, June 11, 2020 10:10:28 AM Pacific Daylight Time

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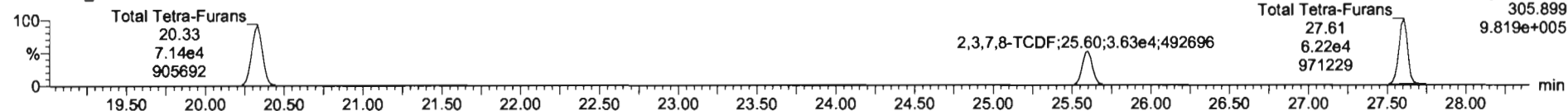
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200611R1_1



F1: Voltage SIR, EI+
303.9016
7.337e+005

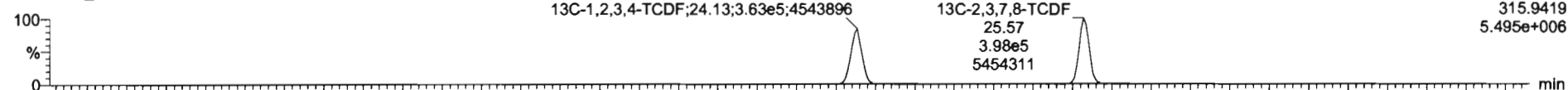
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305.899
9.819e+005

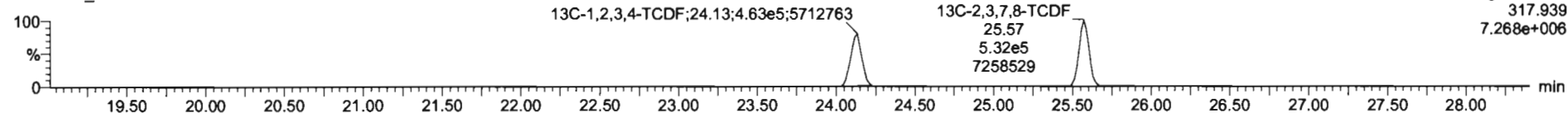
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200611R1_1



F1: Voltage SIR, EI+
315.9419
5.495e+006

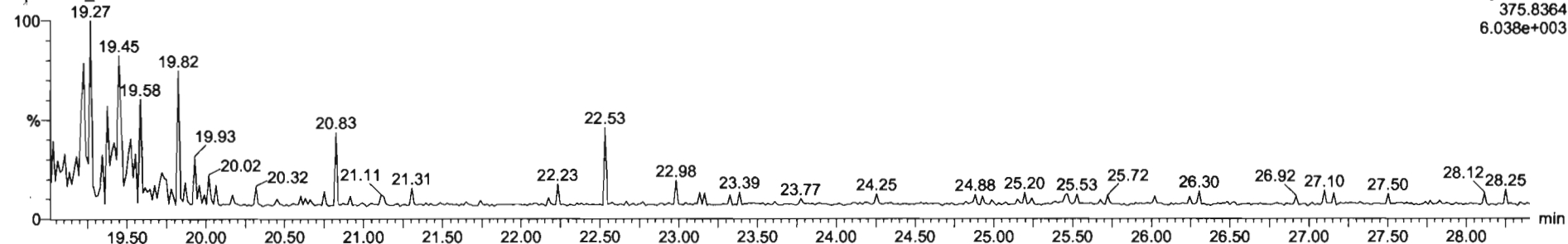
200611R1_1



F1: Voltage SIR, EI+
317.939
7.268e+006

DPE1

200611R1_1



F1: Voltage SIR, EI+
375.8364
6.038e+003

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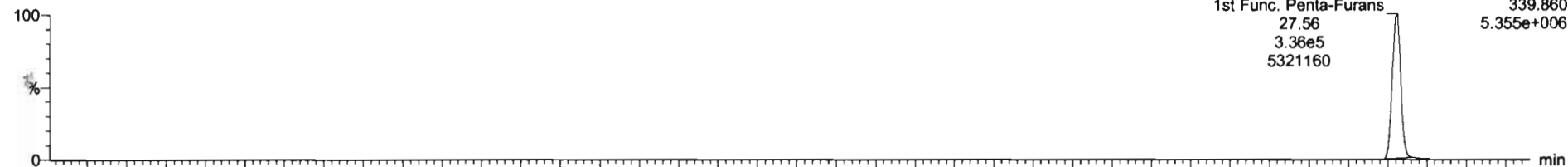
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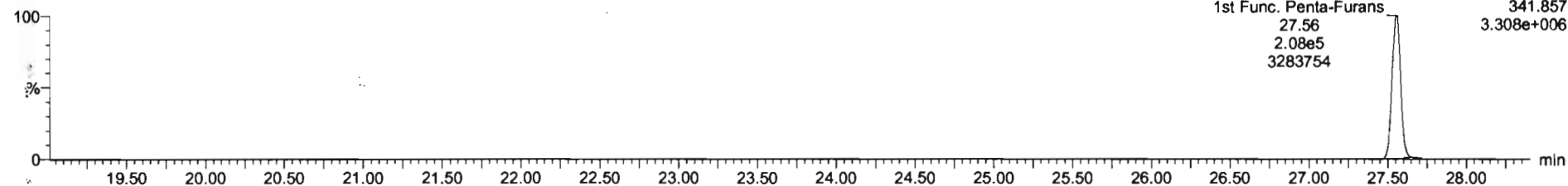
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1st Func. Penta-Furans

200611R1_1

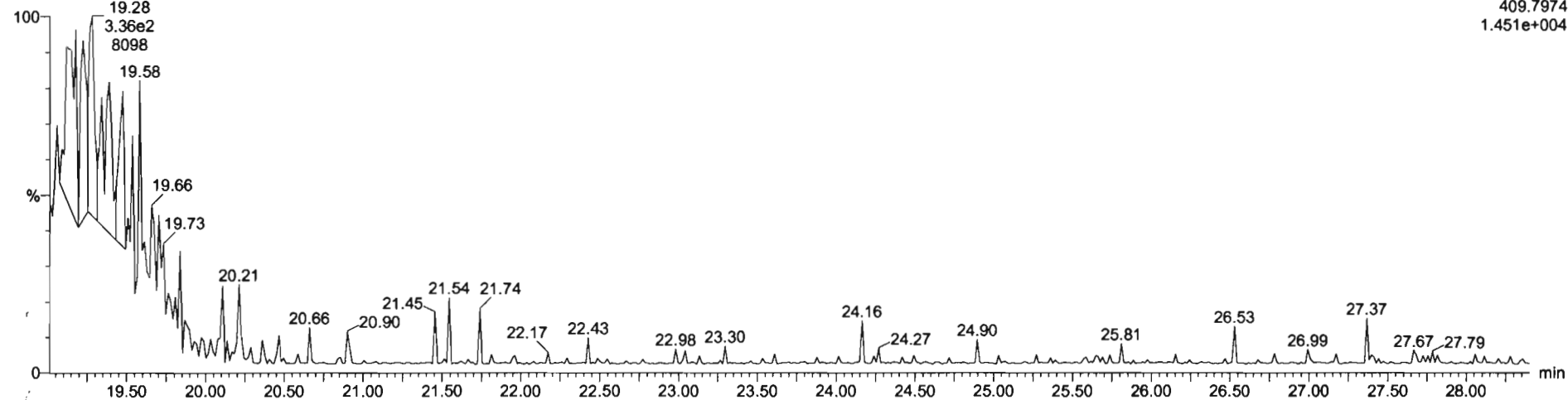


200611R1_1



DPE6

200611R1_1



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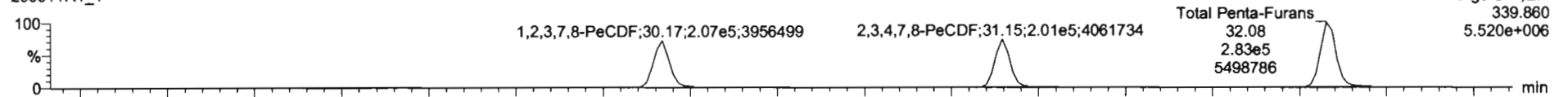
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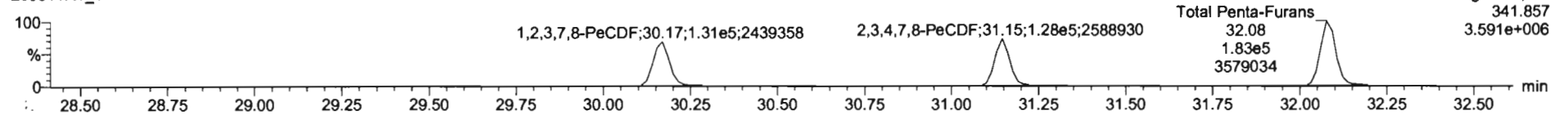
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1,2,3,7,8-PeCDF

200611R1_1

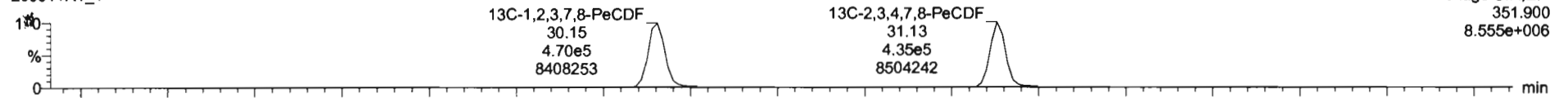


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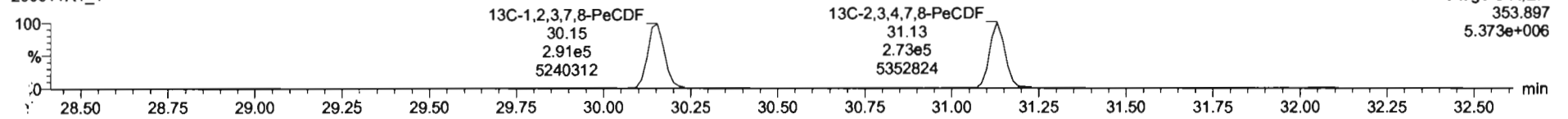


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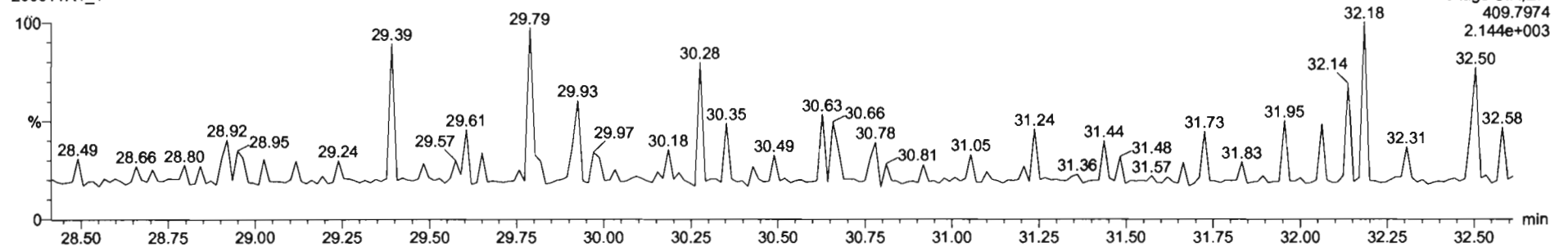


200611R1_1



DPE2

200611R1_1



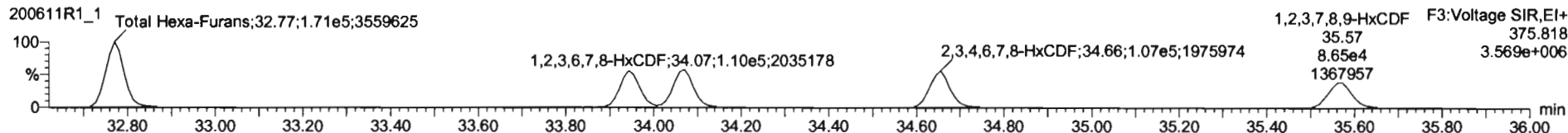
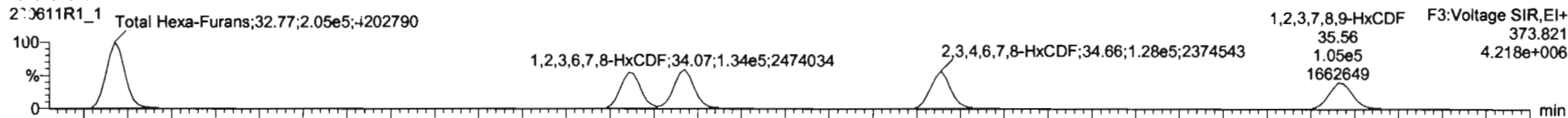
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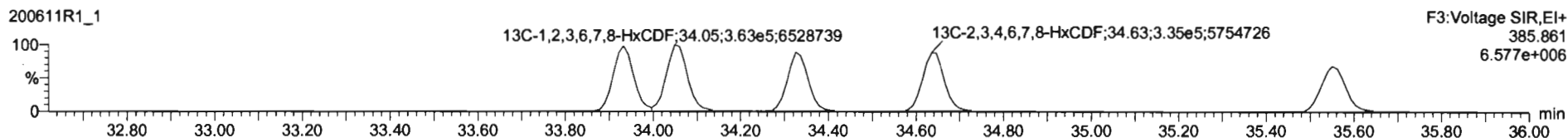
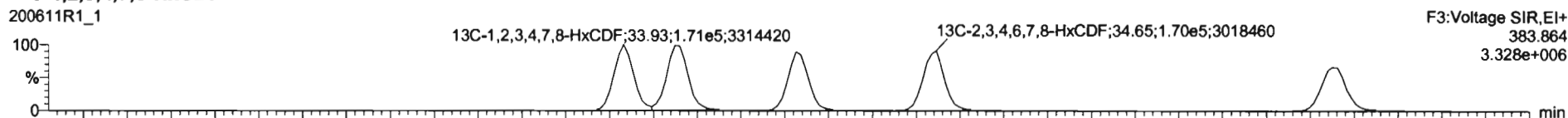
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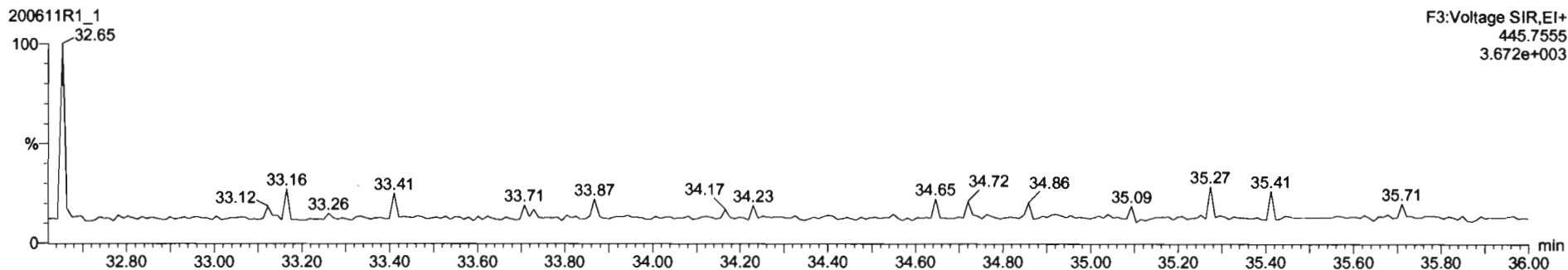
1,2,3,4,7,8-HxCDF



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



DPE3



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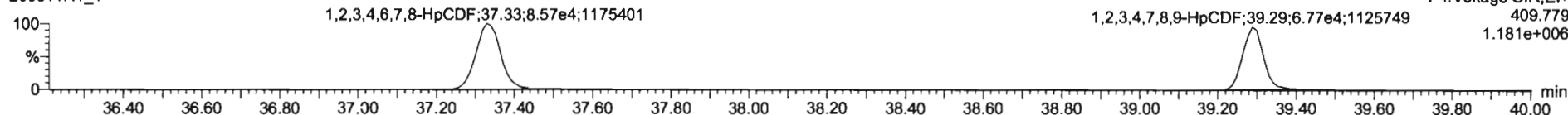
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1,2,3,4,6,7,8-HpCDF

200611R1_1

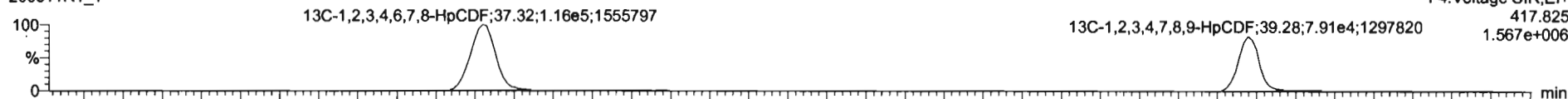


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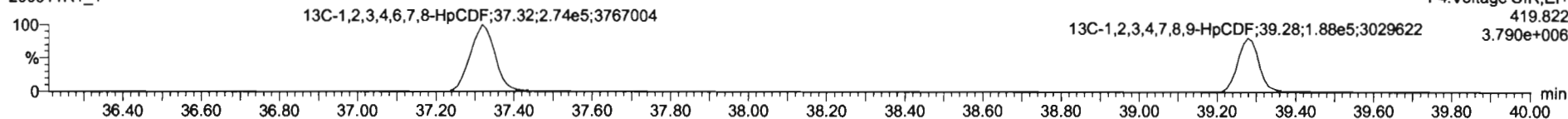


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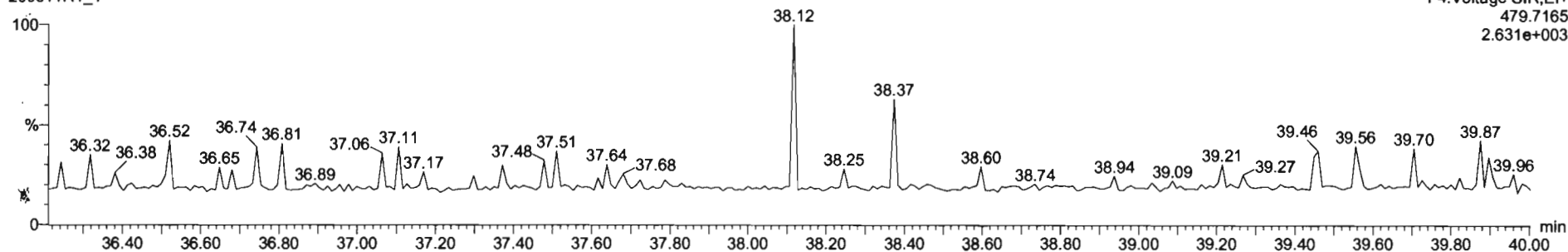


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DPE4

200611R1_1



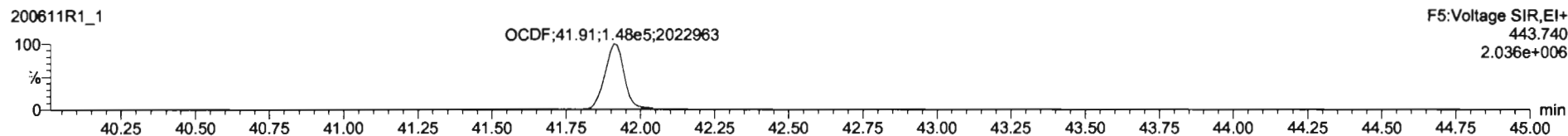
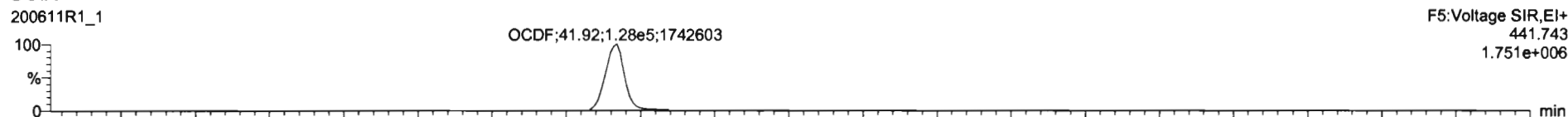
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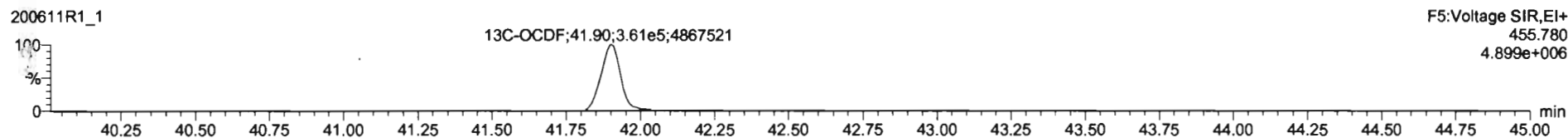
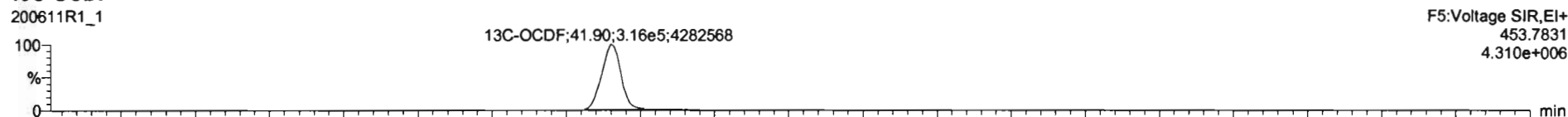
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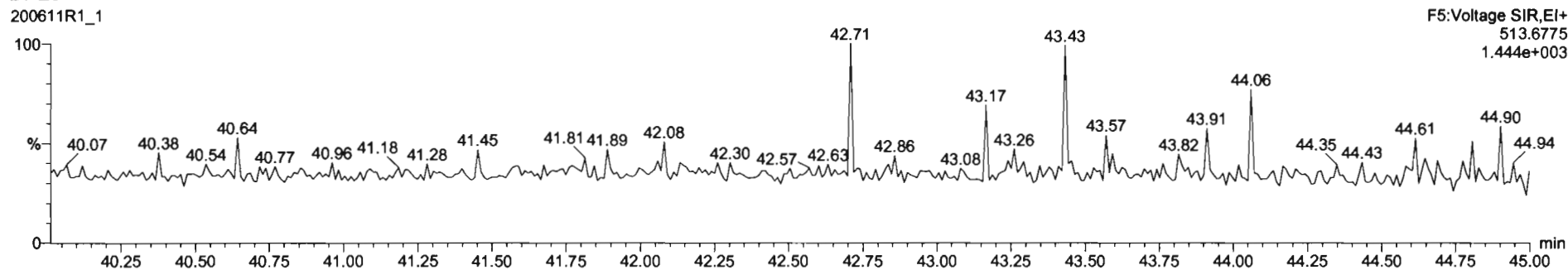
OCDF



¹³C-OCDF



DPE5

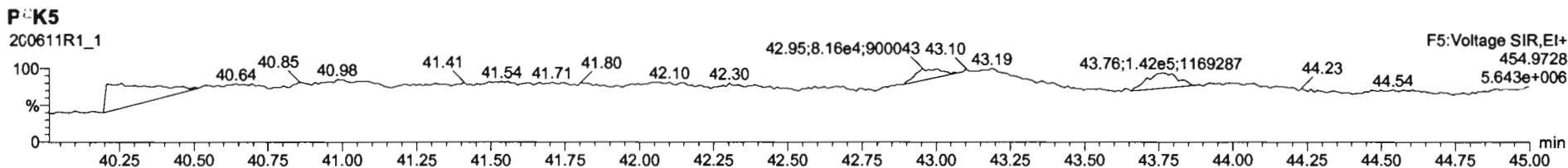
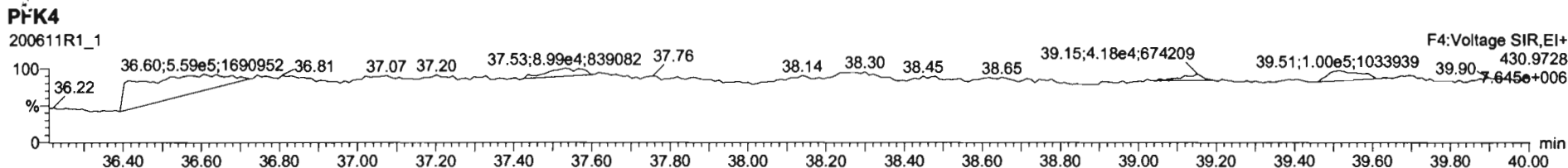
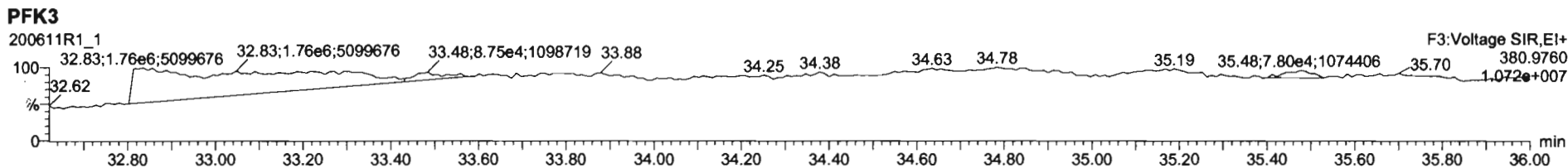
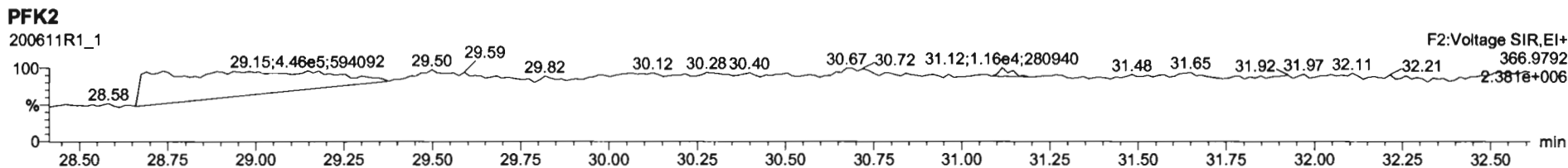
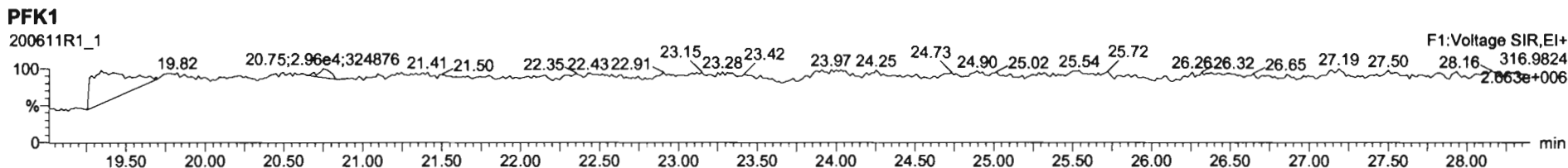


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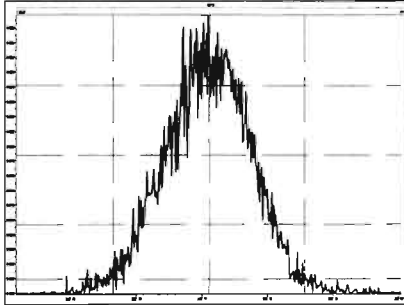
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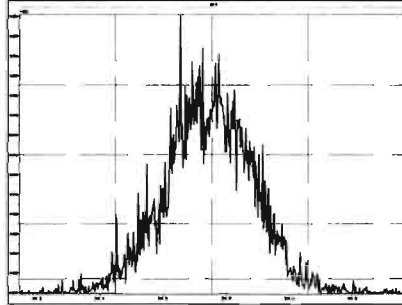


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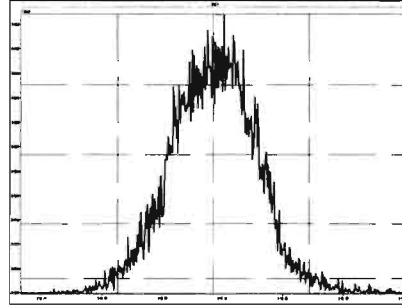
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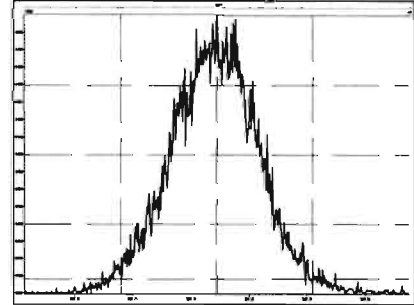
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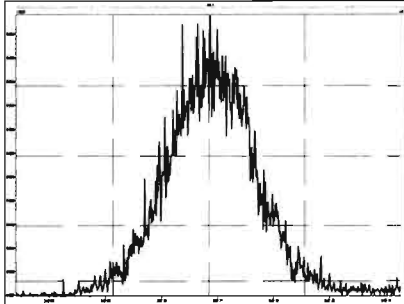
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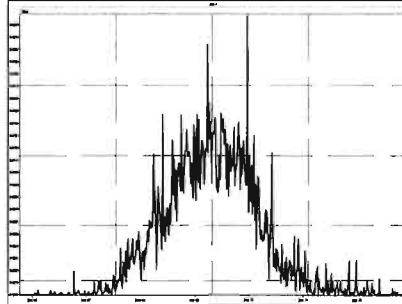
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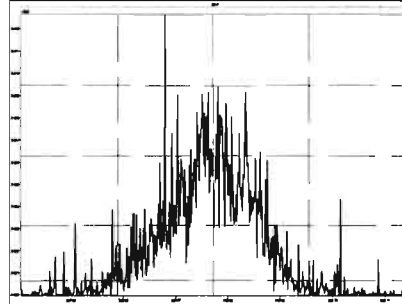
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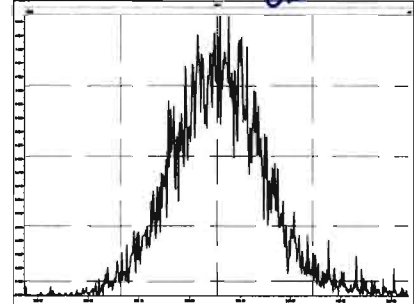
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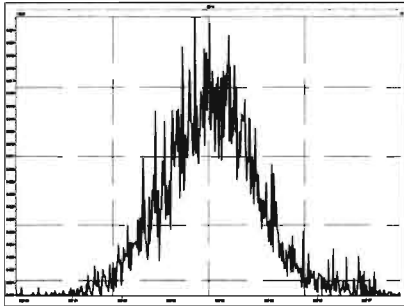
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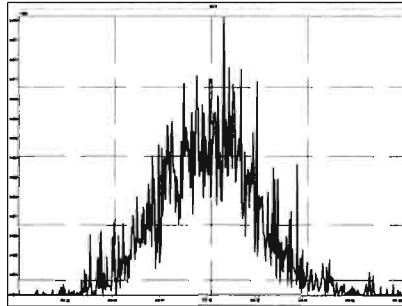
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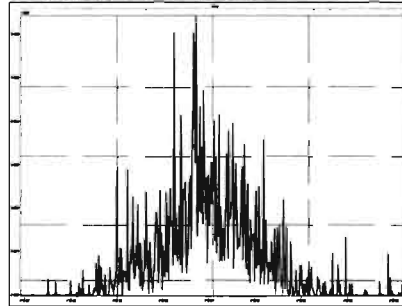
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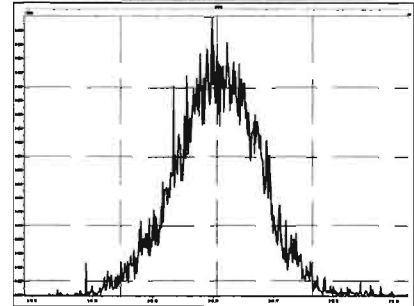
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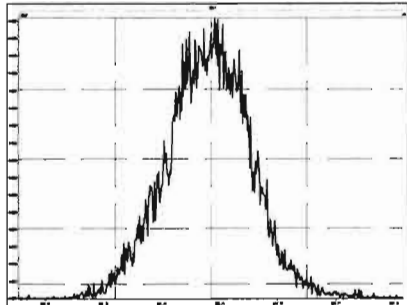


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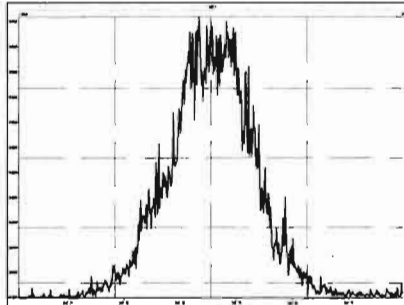


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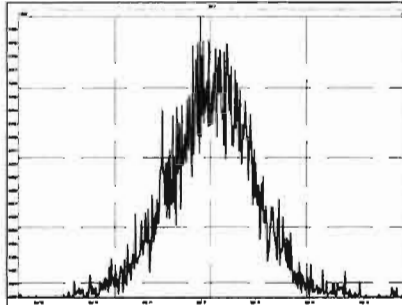
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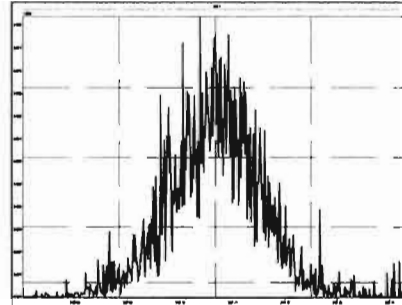
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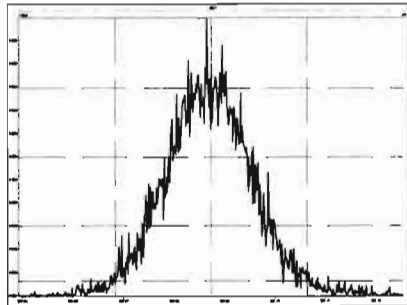
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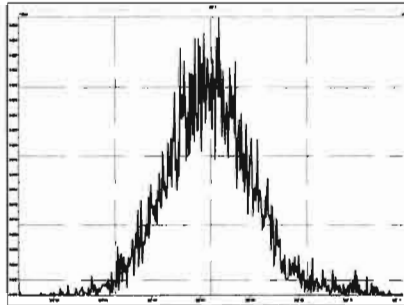
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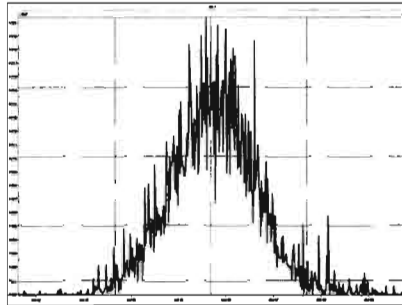
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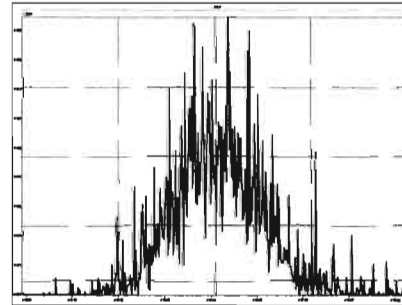
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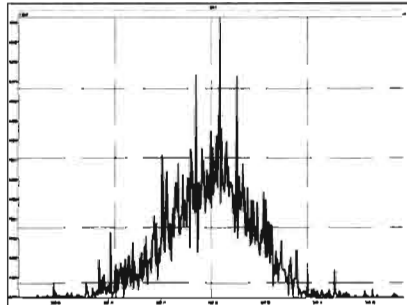
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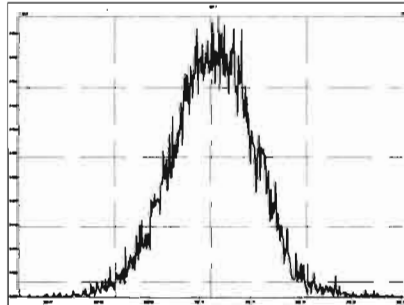
M 416.9760 R 12789



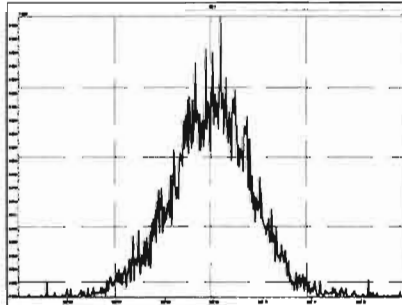
M 366.9792 R 11497



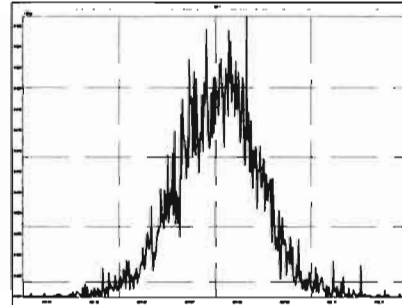
M 380.9760 R 10575



M 392.9760 R 11168

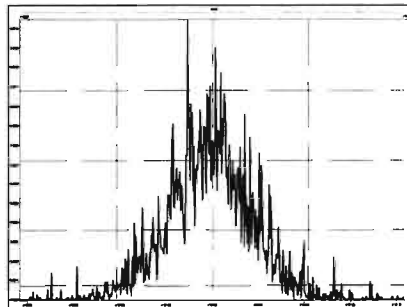


M 404.9760 R 11389

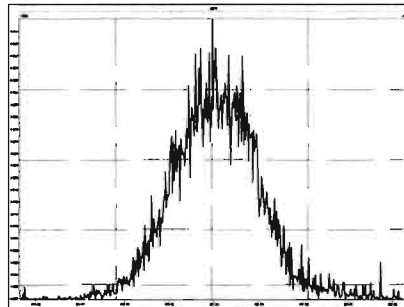


Printed: Thursday, June 11, 2020 21:08:02 Pacific Daylight Time

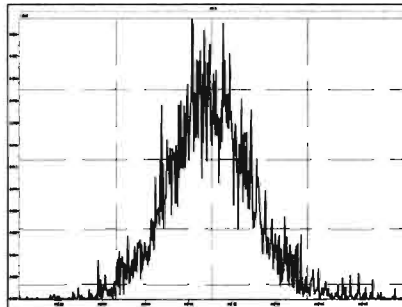
M 416.9760 R 13283



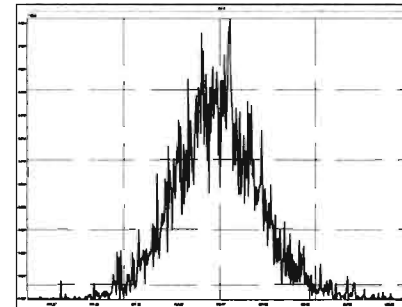
M 430.9728 R 10931



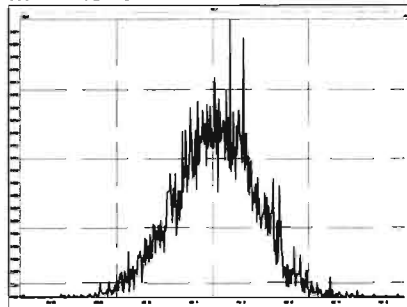
M 442.9728 R 11289



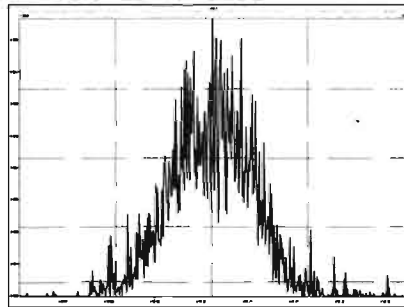
M 454.9728 R 10918



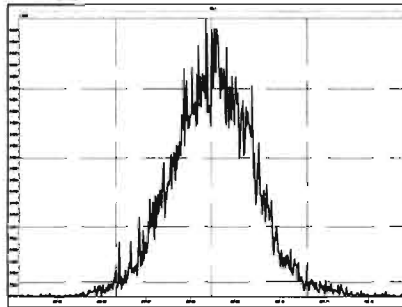
M 404.9760 R 12499



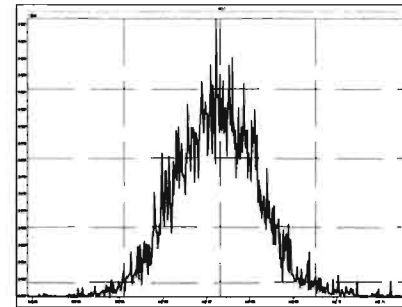
M 416.9760 R 13263



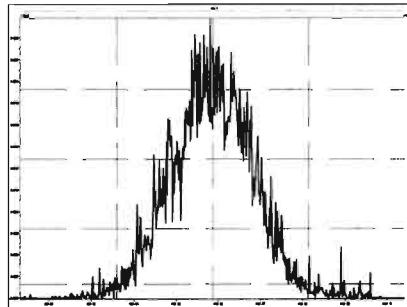
M 430.9728 R 10526



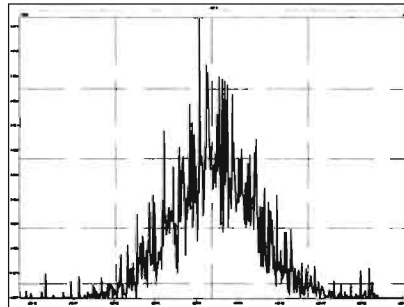
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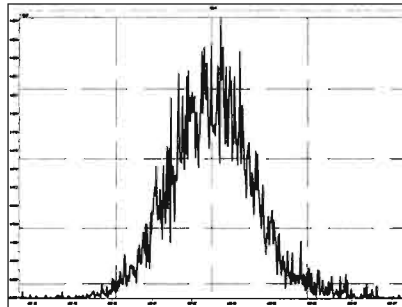
M 454.9728 R 11565



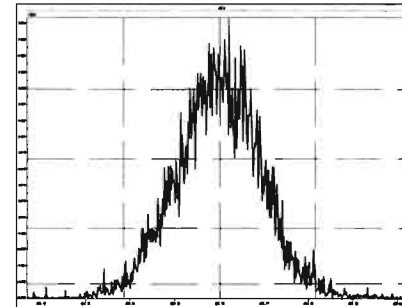
M 466.9728 R 13097



M 480.9696 R 10419

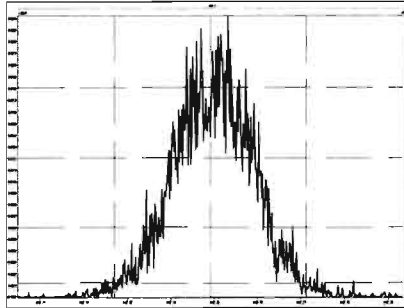


M 430.9728 R 10755

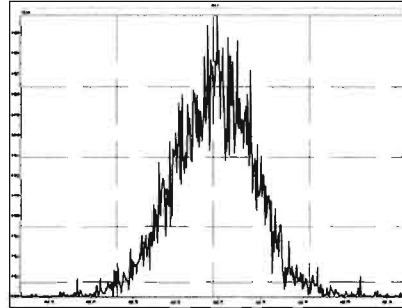


Printed: Thursday, June 11, 2020 21:08:02 Pacific Daylight Time

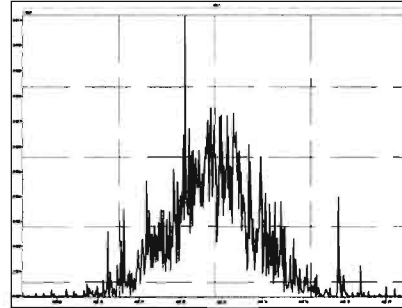
M 442.9728 R 10822



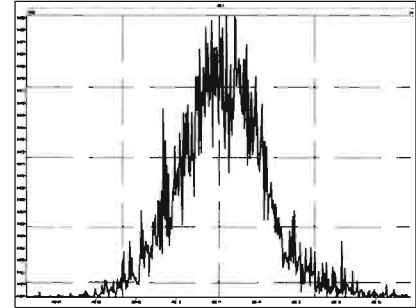
M 454.9728 R 12032



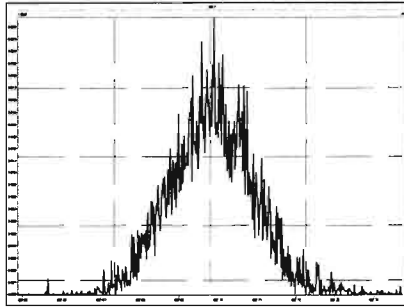
M 466.9728 R 12664



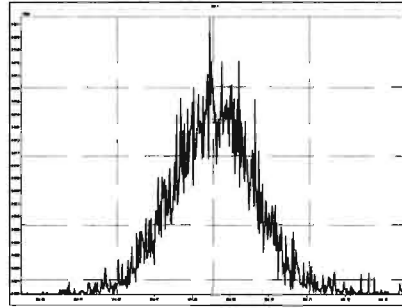
M 480.9696 R 12019



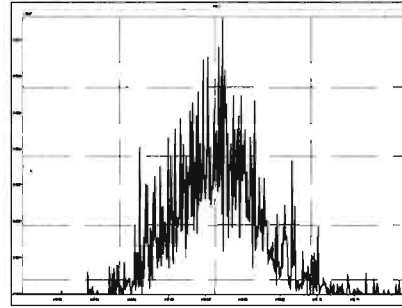
M 492.9696 R 11611



M 504.9696 R 12406



M 516.9697 R 14085



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200610D1-1

Reviewed By: PT 06/11/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> NA	<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>DB</u>	<u>DB</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N
- Samples within 12 hour clock?	<input type="checkbox"/> Y	N
- Bottle position verified?	<u>DB</u>	<u>DB</u>

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
GC Break <20%		<input type="checkbox"/> NA
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:

Dataset: U:\VG7.PRO\Results\200610D1\200610D1_2.qld

Last Altered: Wednesday, June 10, 2020 13:26:50 Pacific Daylight Time

Printed: Wednesday, June 10, 2020 13:27:37 Pacific Daylight Time

JB 6/10/20 CT 06/11/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200610D1_2, Date: 10-Jun-2020, Time: 12:09:41, ID: ST200610D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.90e3	0.70	NO	0.982	1.000	17.666	17.66	1.000	1.001	8.9912	89.9 84 -120	0.823	8.99
2	2 13C-2,3,7,8-TCDF	2.15e4	0.78	NO	1.08	1.000	17.701	17.65	1.133	1.135	97.294	97.3 71 -140	2.61	
3	3 13C-1,2,3,4-TCDF	2.04e4	0.74	NO	1.00	1.000	15.660	15.54	1.000	1.000	100.00	100	2.83	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, June 11, 2020 09:51:48 Pacific Daylight Time

Printed: Thursday, June 11, 2020 09:51:56 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Callbration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

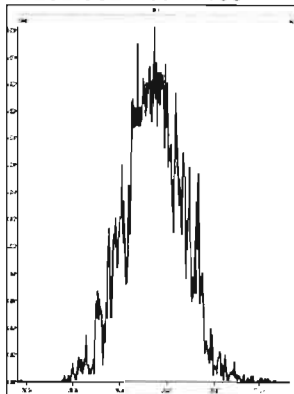
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200610D1_1	CP200610D1-1 DB-225 CPSM	10-Jun-20	11:39:34
2	200610D1_2	ST200610D1-1 1613 CS3 19L2305	10-Jun-20	12:09:41
3	200610D1_3	SOLVENT BLANK	10-Jun-20	12:41:20
4	200610D1_4	2000995-09RE1 PDI-072SC-B-02-04-200430 ...	10-Jun-20	13:13:05
5	200610D1_5	2000995-10RE1 PDI-072SC-B-04-06-200430 ...	10-Jun-20	13:44:45
6	200610D1_6	2000995-11RE1 PDI-072SC-B-06-08-200430 ...	10-Jun-20	14:16:34
7	200610D1_7	2000995-12RE1 PDI-1072SC-B-02-04-200430...	10-Jun-20	14:55:36
8	200610D1_8	B0E0079-DUP1RE1 Duplicate	10-Jun-20	15:25:38
9	200610D1_9	B0E0118-DUP1RE1 Duplicate	10-Jun-20	15:57:20
10	200610D1_10	2001009-02RE1 PDI-070SC-A-07-8.4-200505 ...	10-Jun-20	16:29:02
11	200610D1_11	2001009-03RE1 PDI-070SC-B-00-02-200505 ...	10-Jun-20	17:00:44
12	200610D1_12	2001009-04RE1 PDI-070SC-B-02-05-200505 ...	10-Jun-20	17:32:27
13	200610D1_13	2001009-05RE1 PDI-070SC-B-05-07-200505 ...	10-Jun-20	18:04:09
14	200610D1_14	2001009-06RE1 PDI-078SC-A-08-09-200505 ...	10-Jun-20	18:35:51
15	200610D1_15	2001009-07RE1 PDI-078SC-A-09-09.6-20050...	10-Jun-20	19:07:27
16	200610D1_16	2001009-08RE1 PDI-1078SC-A-08-09-200505...	10-Jun-20	19:39:12
17	200610D1_17	2001009-09RE1 PDI-078SC-B-00-02-200505 ...	10-Jun-20	20:10:52
18	200610D1_18	2001009-10RE1 PDI-078SC-B-02-05-200505 ...	10-Jun-20	20:42:35
19	200610D1_19	2001009-11RE1 PDI-078SC-B-05-07-200505 ...	10-Jun-20	21:14:17
20	200610D1_20	2001034-01RE1 PDI-085SC-B-00-02-200508 ...	10-Jun-20	21:46:00
21	200610D1_21	2001034-02RE1 PDI-085SC-B-02-05-200508 ...	10-Jun-20	22:17:43
22	200610D1_22	2001034-03RE1 PDI-085SC-B-05-07-200508 ...	10-Jun-20	22:49:25

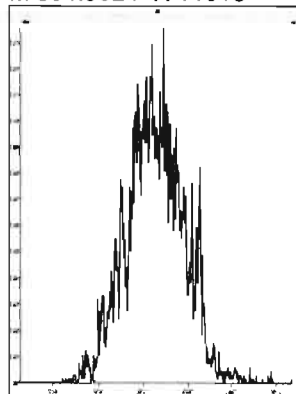
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, June 10, 2020 11:38:43 Pacific Daylight Time

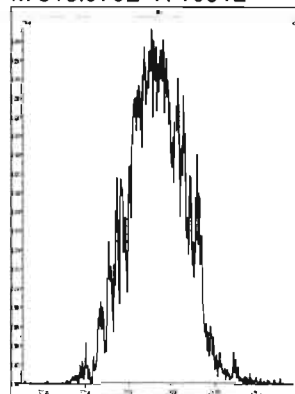
M 292.9824 R 11465



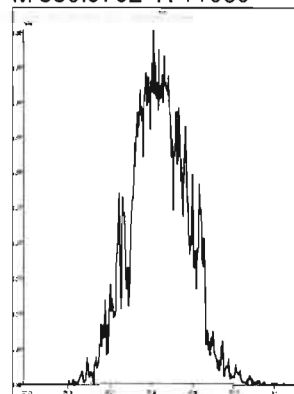
M 304.9824 R 11015



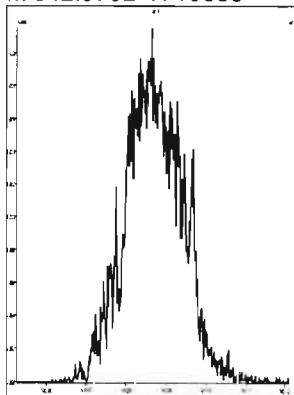
M 318.9792 R 10912



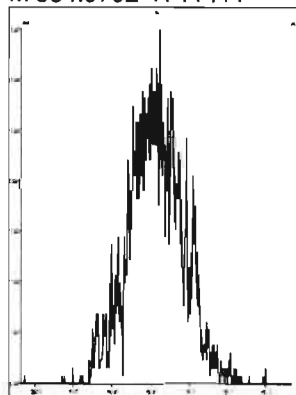
M 330.9792 R 11060



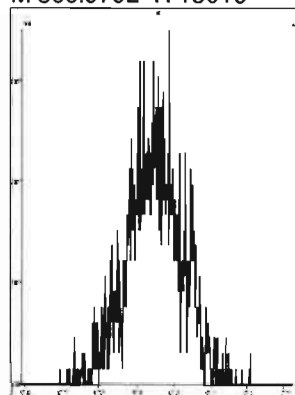
M 342.9792 R 10635



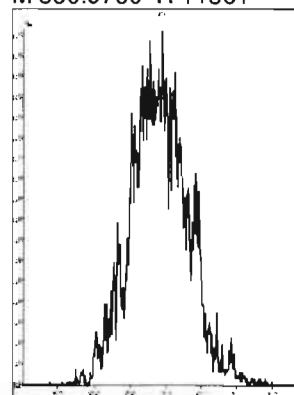
M 354.9792 R 11411

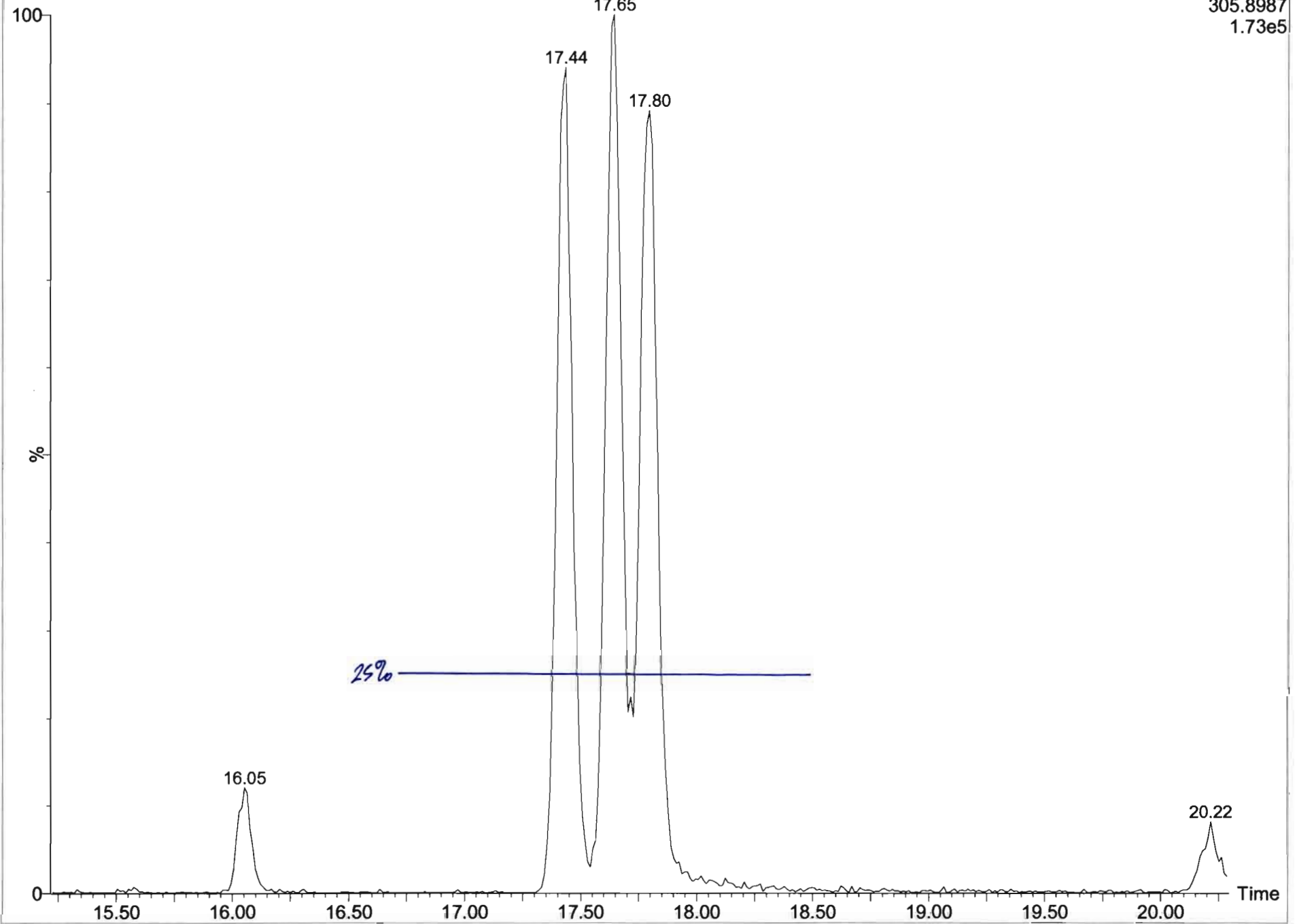


M 366.9792 R 13019



M 380.9760 R 11361





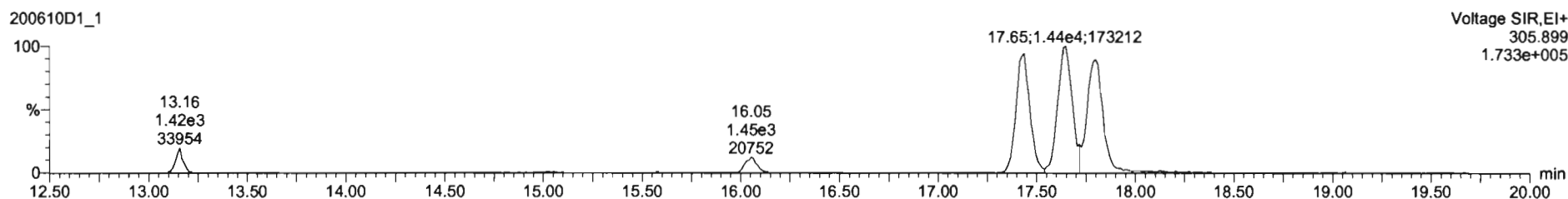
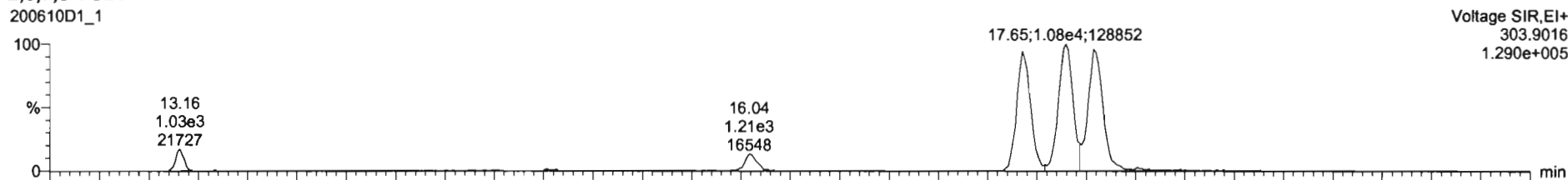
Dataset: U:\VG7.PRO\Results\200610D1\200610D1_1.qld

Last Altered: Wednesday, June 10, 2020 13:23:28 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 13:24:46 Pacific Daylight Time

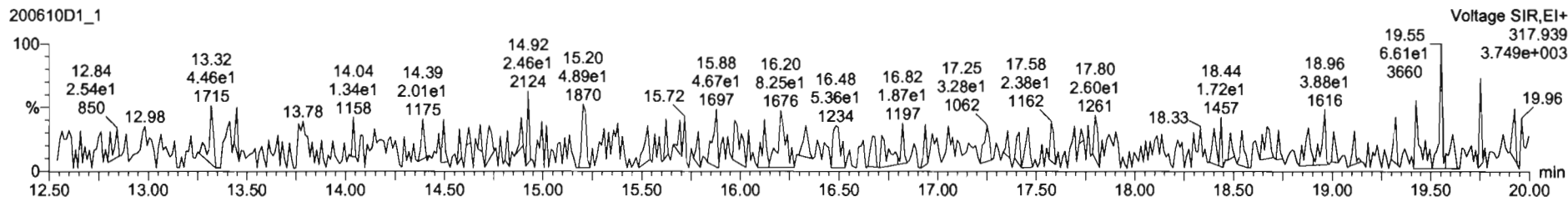
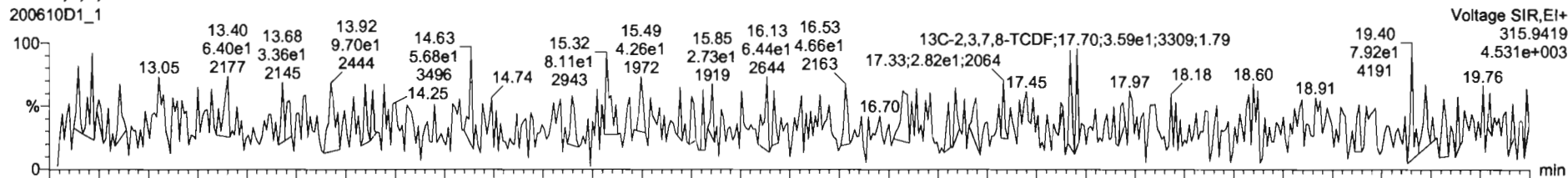
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200610D1_1, Date: 10-Jun-2020, Time: 11:39:34, ID: CP200610D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF



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

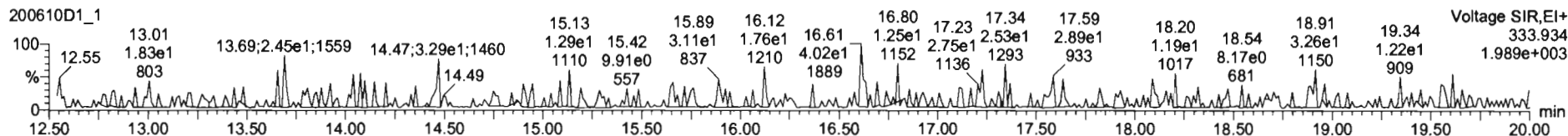
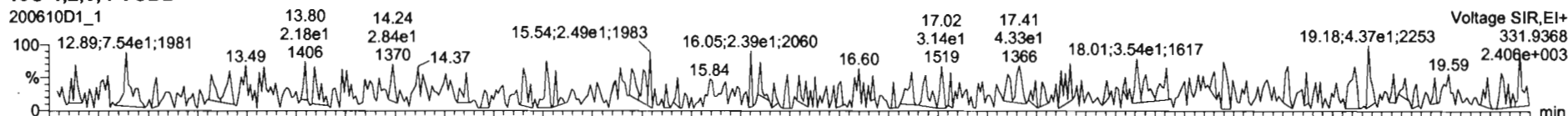


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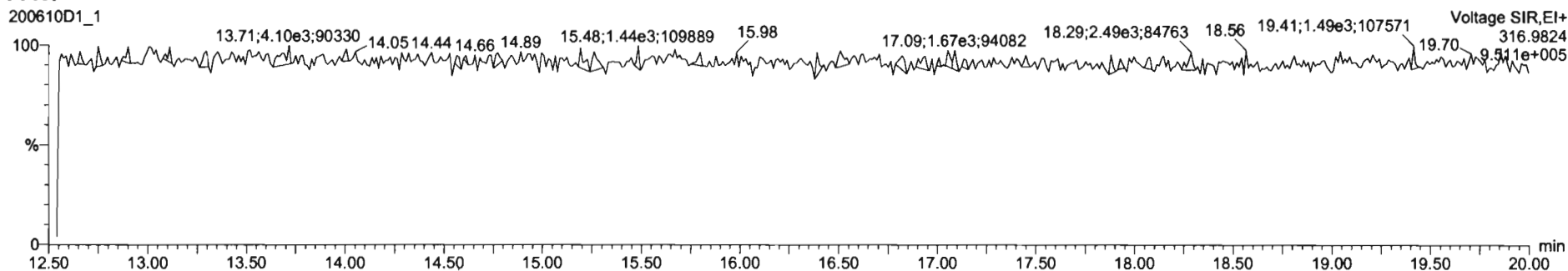
Last Altered: Wednesday, June 10, 2020 13:23:28 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 13:24:46 Pacific Daylight Time

Name: 200610D1_1, Date: 10-Jun-2020, Time: 11:39:34, ID: CP200610D1-1 DB-225 CPSM, Description: DB-225 CPSM

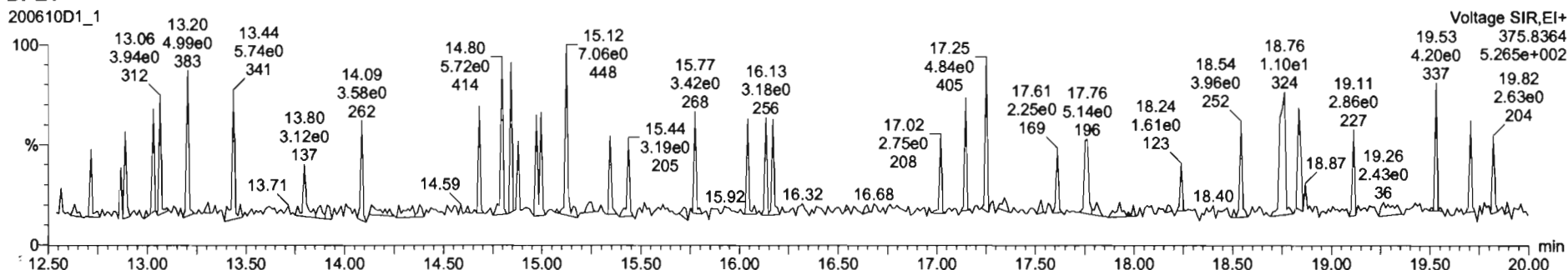
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200610D1\200610D1_2.qld

Last Altered: Wednesday, June 10, 2020 13:24:54 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 13:25:53 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

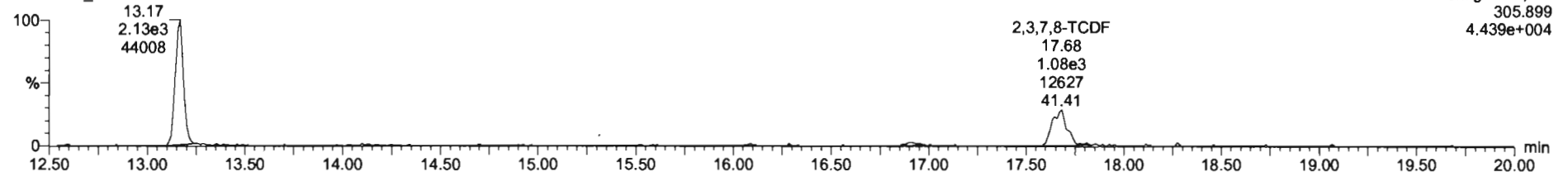
Name: 200610D1_2, Date: 10-Jun-2020, Time: 12:09:41, ID: ST200610D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200610D1_2

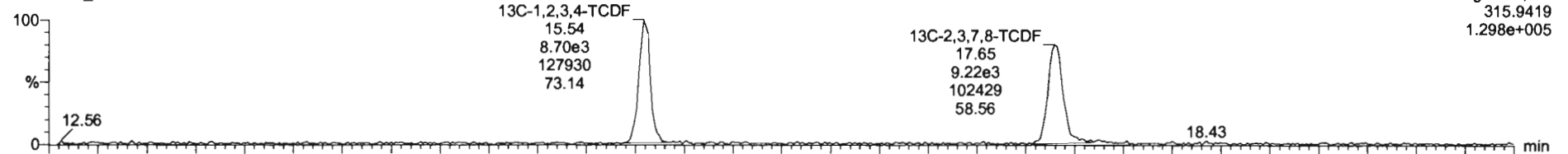


200610D1_2

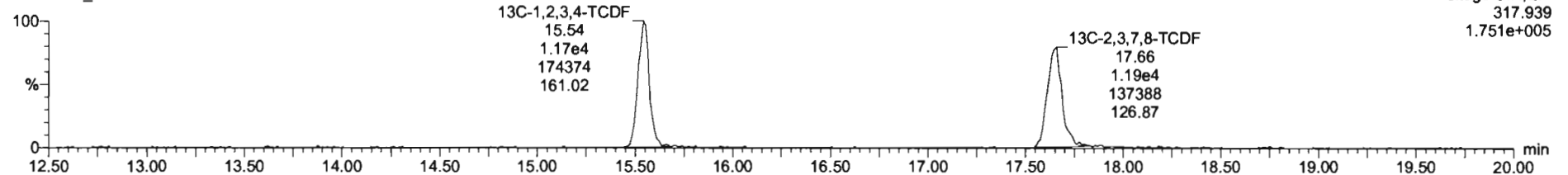


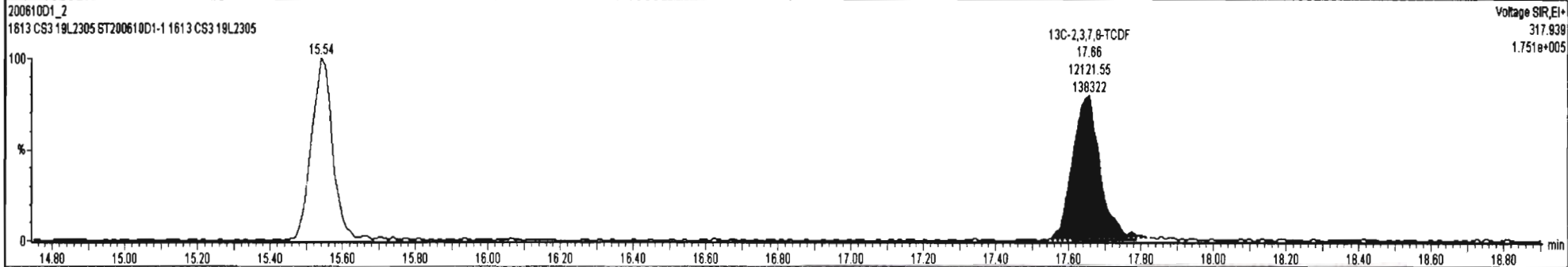
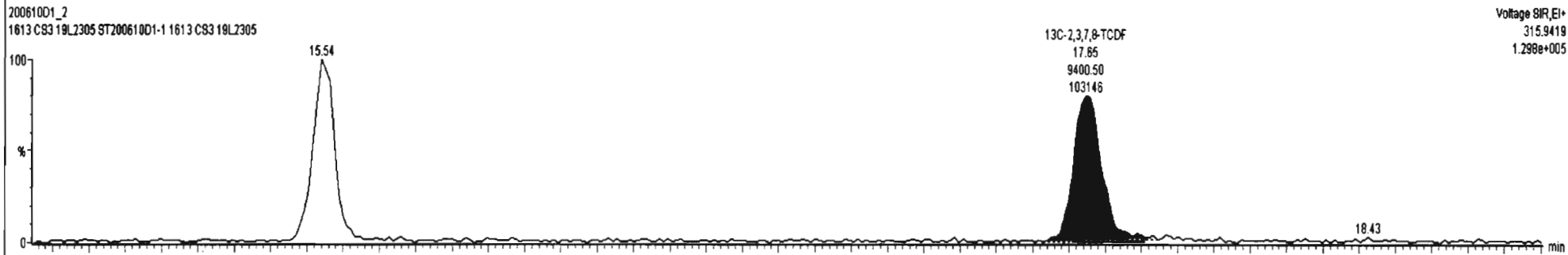
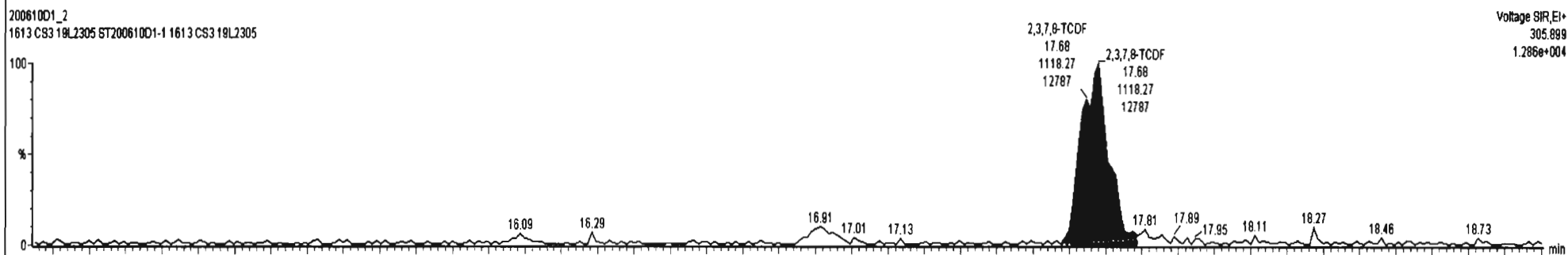
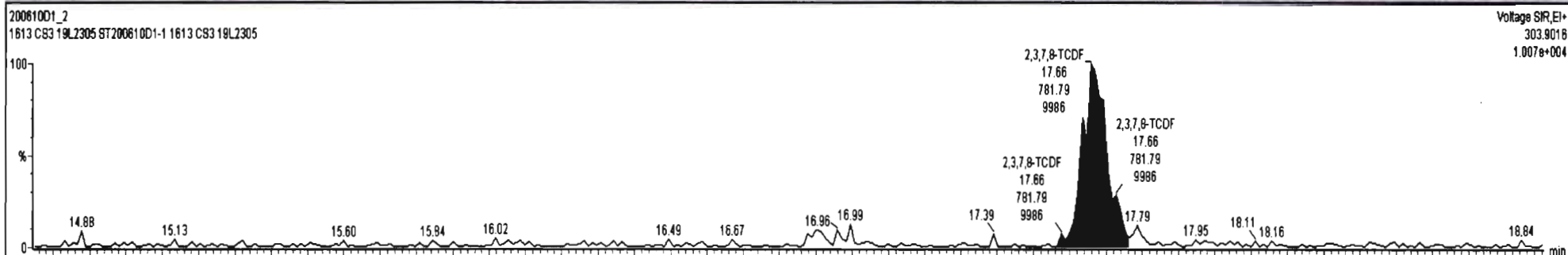
13C-2,3,7,8-TCDF

200610D1_2



200610D1_2





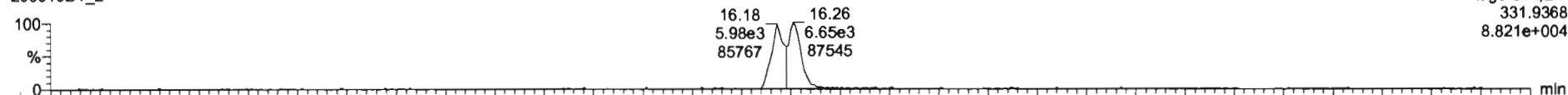
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Last Altered: Wednesday, June 10, 2020 13:24:54 Pacific Daylight Time
Printed: Wednesday, June 10, 2020 13:25:53 Pacific Daylight Time

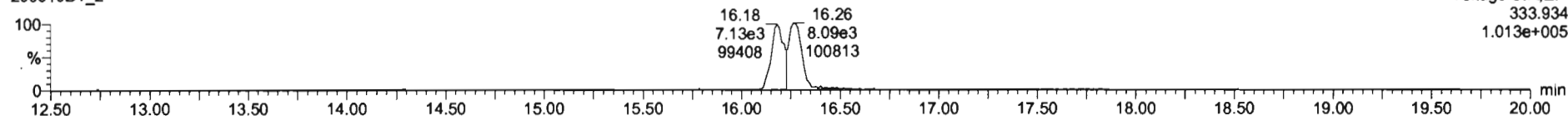
Name: 200610D1_2, Date: 10-Jun-2020, Time: 12:09:41, ID: ST200610D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200610D1_2

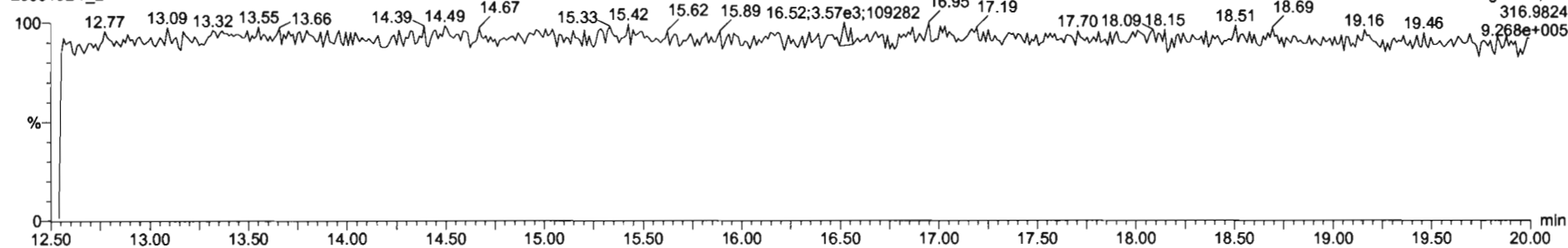


200610D1_2



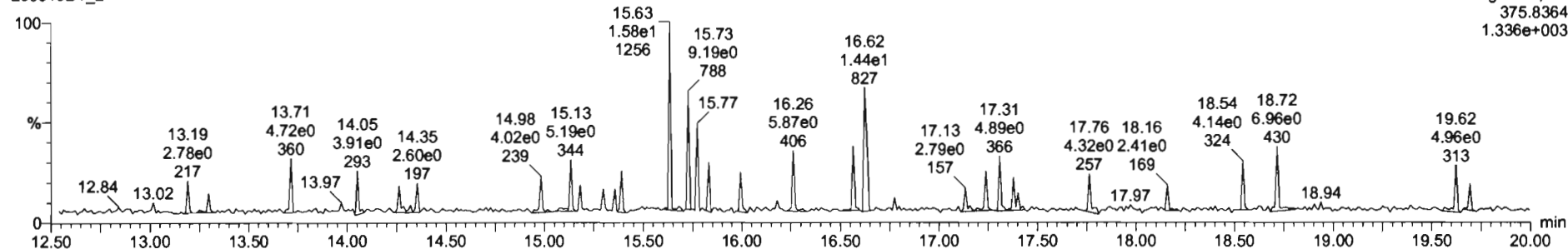
PFK1

200610D1_2



DPE1

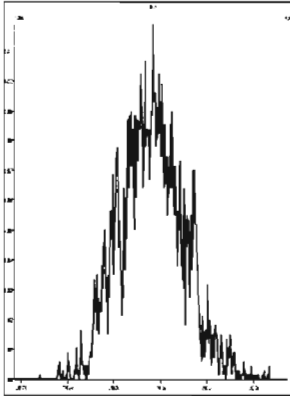
200610D1_2



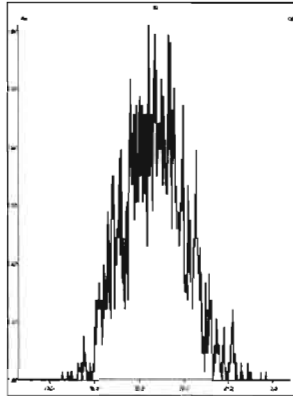
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, June 10, 2020 23:22:36 Pacific Daylight Time

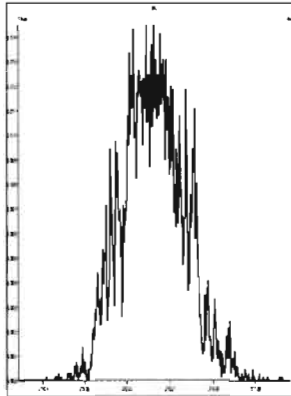
M 292.9824 R 10551



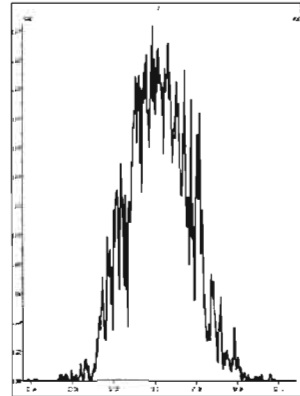
M 304.9824 R 12377



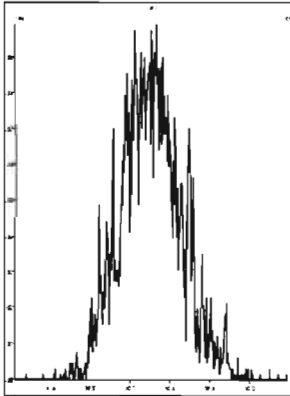
M 318.9792 R 10460



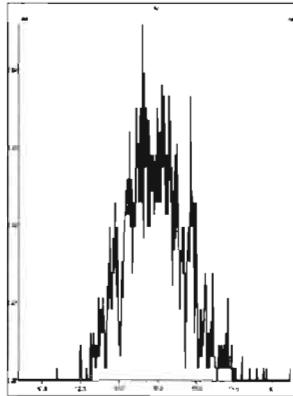
M 330.9792 R 10826



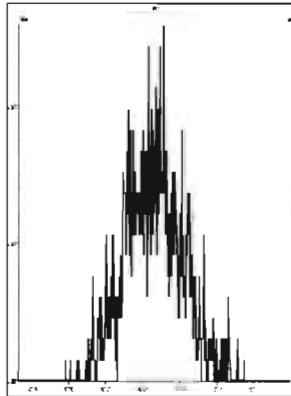
M 342.9792 R 10332



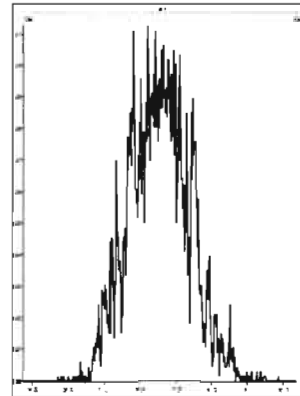
M 354.9792 R 10679



M 366.9792 R 12436



M 380.9760 R 10727



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

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GRB 05/29/2020

CI 05/29/2020

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

Response Factor: 0.88831
RRF SD: 0.0677802, Relative SD: 7.63025
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250	0.68	NO	26.54	1.000	2.70e3	1.43e6	0.213	-14.8	0.757	bb
2	200528R2_2	0.500	0.78	NO	26.57	1.001	5.69e3	1.29e6	0.497	-0.6	0.883	bb
3	200528R2_3	2.00	0.80	NO	26.57	1.001	2.40e4	1.31e6	2.06	3.1	0.916	bb
4	200528R2_4	40.0	0.78	NO	26.56	1.001	5.50e5	1.50e6	41.2	3.0	0.915	bb
5	200528R2_5	300	0.78	NO	26.59	1.001	4.32e6	1.52e6	321	6.9	0.949	bb
6	200528R2_6	10.0	0.81	NO	26.59	1.001	1.06e5	1.16e6	10.2	2.4	0.910	dd

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.908065
RRF SD: 0.0455724, Relative SD: 5.01862
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.66	NO	31.50	1.000	1.03e4	1.00e6	1.12	-10.0	0.817	bb
2	200528R2_2	2.50	0.64	NO	31.51	1.000	2.12e4	9.36e5	2.50	-0.1	0.908	bb
3	200528R2_3	10.0	0.63	NO	31.51	1.000	8.60e4	9.29e5	10.2	1.9	0.926	bb
4	200528R2_4	200	0.63	NO	31.51	1.000	2.06e6	1.11e6	205	2.4	0.930	bb
5	200528R2_5	1500	0.63	NO	31.51	1.000	1.69e7	1.21e6	1550	3.0	0.935	bb
6	200528R2_6	50.0	0.62	NO	31.53	1.001	3.95e5	8.48e5	51.3	2.7	0.932	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

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Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.03343

RRF SD: 0.0545572, Relative SD: 5.27925

Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.27	NO	34.86	1.000	8.03e3	6.95e5	1.12	-10.6	0.924	MM
2	200528R2_2	2.50	1.27	NO	34.88	1.000	1.69e4	6.46e5	2.53	1.2	1.05	bd
3	200528R2_3	10.0	1.24	NO	34.88	1.000	6.94e4	6.61e5	10.2	1.6	1.05	bd
4	200528R2_4	200	1.23	NO	34.88	1.001	1.67e6	7.89e5	204	2.1	1.06	MM
5	200528R2_5	1500	1.23	NO	34.88	1.000	1.47e7	9.34e5	1520	1.5	1.05	bd
6	200528R2_6	50.0	1.23	NO	34.89	1.000	3.25e5	6.04e5	52.1	4.1	1.08	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.892293

RRF SD: 0.0561127, Relative SD: 6.28859

Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.23	NO	34.97	1.001	9.27e3	9.27e5	1.12	-10.3	0.800	db
2	200528R2_2	2.50	1.25	NO	34.99	1.001	1.90e4	8.61e5	2.47	-1.1	0.883	db
3	200528R2_3	10.0	1.24	NO	34.99	1.000	8.01e4	8.39e5	10.7	7.0	0.954	db
4	200528R2_4	200	1.22	NO	34.99	1.001	1.92e6	1.03e6	209	4.3	0.931	MM
5	200528R2_5	1500	1.23	NO	34.99	1.000	1.61e7	1.17e6	1550	3.5	0.923	db
6	200528R2_6	50.0	1.24	NO	35.00	1.001	3.51e5	8.15e5	48.3	-3.4	0.862	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.886936

RRF SD: 0.0582559, Relative SD: 6.56822

Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.20	NO	35.25	1.000	8.14e3	8.33e5	1.10	-11.9	0.782	bb
2	200528R2_2	2.50	1.21	NO	35.27	1.001	1.62e4	7.48e5	2.44	-2.3	0.866	bb

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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.26	NO	35.26	1.000	7.01e4	7.53e5	10.5	4.9	0.931	bb
4	200528R2_4	200	1.20	NO	35.26	1.000	1.70e6	9.12e5	210	4.9	0.931	bb
5	200528R2_5	1500	1.22	NO	35.27	1.000	1.47e7	1.06e6	1570	4.5	0.927	bb
6	200528R2_6	50.0	1.24	NO	35.27	1.000	3.12e5	7.05e5	49.9	-0.2	0.886	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.863903

RRF SD: 0.0694586, Relative SD: 8.04009

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	38.78	1.000	6.10e3	6.48e5	1.09	-12.8	0.753	MM
2	200528R2_2	2.50	1.05	NO	38.81	1.001	1.21e4	6.01e5	2.33	-6.7	0.806	bb
3	200528R2_3	10.0	1.03	NO	38.80	1.000	4.99e4	5.57e5	10.4	3.7	0.896	bd
4	200528R2_4	200	1.02	NO	38.80	1.000	1.25e6	6.86e5	211	5.5	0.911	bb
5	200528R2_5	1500	1.01	NO	38.81	1.000	1.15e7	8.18e5	1620	8.0	0.933	bb
6	200528R2_6	50.0	1.03	NO	38.81	1.000	2.29e5	5.18e5	51.2	2.4	0.884	MM

Compound name: OCDD

Response Factor: 0.913637

RRF SD: 0.0452527, Relative SD: 4.95303

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.85	NO	41.76	1.000	1.23e4	1.18e6	2.27	-9.1	0.831	bd
2	200528R2_2	5.00	0.83	NO	41.77	1.000	2.39e4	1.05e6	4.97	-0.6	0.908	bd
3	200528R2_3	20.0	0.89	NO	41.78	1.000	9.89e4	1.03e6	21.0	4.9	0.959	MM
4	200528R2_4	400	0.87	NO	41.77	1.000	2.45e6	1.35e6	397	-0.6	0.908	MM
5	200528R2_5	3000	0.84	NO	41.79	1.000	2.37e7	1.67e6	3100	3.2	0.943	MM
6	200528R2_6	100	0.88	NO	41.78	1.000	4.53e5	9.71e5	102	2.2	0.933	MM

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

Response Factor: 0.75098

RF SD: 0.0524401, Relative SD: 6.98288

Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250	0.73	NO	25.67	1.001	3.27e3	1.95e6	0.223	-10.9	0.669	bb
2	200528R2_2	0.500	0.75	NO	25.67	1.001	6.53e3	1.78e6	0.488	-2.3	0.733	bb
3	200528R2_3	2.00	0.74	NO	25.68	1.001	2.67e4	1.80e6	1.97	-1.4	0.740	bb
4	200528R2_4	40.0	0.76	NO	25.68	1.001	6.52e5	2.04e6	42.6	6.5	0.800	bb
5	200528R2_5	300	0.75	NO	25.69	1.001	5.00e6	2.04e6	326	8.6	0.816	bb
6	200528R2_6	10.0	0.74	NO	25.69	1.001	1.19e5	1.59e6	9.96	-0.4	0.748	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.892531

RRF SD: 0.0599961, Relative SD: 6.72201

Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.61	NO	30.20	1.000	1.46e4	1.50e6	1.09	-12.9	0.777	bb
2	200528R2_2	2.50	1.55	NO	30.23	1.000	3.08e4	1.37e6	2.52	0.8	0.900	bd
3	200528R2_3	10.0	1.55	NO	30.23	1.000	1.31e5	1.38e6	10.7	7.0	0.955	bb
4	200528R2_4	200	1.54	NO	30.23	1.000	2.94e6	1.63e6	203	1.4	0.905	bb
5	200528R2_5	1500	1.54	NO	30.23	1.000	2.38e7	1.75e6	1520	1.3	0.904	bb
6	200528R2_6	50.0	1.57	NO	30.25	1.000	5.72e5	1.25e6	51.2	2.5	0.915	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 0.934777

RRF SD: 0.0507076, Relative SD: 5.42456

Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.56	NO	31.19	1.000	1.48e4	1.42e6	1.12	-10.8	0.834	bb
2	200528R2_2	2.50	1.55	NO	31.21	1.000	3.19e4	1.35e6	2.52	0.8	0.943	bd

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Compound name: 2,3,4,7,8-PeCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.55	NO	31.21	1.000	1.34e5	1.38e6	10.4	3.7	0.969	bb
4	200528R2_4	200	1.54	NO	31.21	1.000	3.00e6	1.57e6	204	2.2	0.955	bb
5	200528R2_5	1500	1.53	NO	31.21	1.000	2.45e7	1.69e6	1550	3.4	0.967	bb
6	200528R2_6	50.0	1.57	NO	31.22	1.000	5.81e5	1.24e6	50.3	0.7	0.941	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.884459

RRF SD: 0.0674086, Relative SD: 7.62145

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.25	NO	33.99	1.001	8.98e3	9.42e5	1.08	-13.8	0.762	bd
2	200528R2_2	2.50	1.19	NO	33.99	1.000	1.81e4	8.49e5	2.41	-3.7	0.852	bd
3	200528R2_3	10.0	1.22	NO	34.01	1.001	7.91e4	8.47e5	10.6	5.6	0.934	bd
4	200528R2_4	200	1.18	NO	33.99	1.000	1.87e6	1.02e6	208	3.9	0.919	bd
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bd
6	200528R2_6	50.0	1.21	NO	34.01	1.000	3.56e5	7.87e5	51.1	2.2	0.904	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 0.889174

RRF SD: 0.0479606, Relative SD: 5.39384

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.16	NO	34.11	1.001	1.07e4	1.07e6	1.12	-10.7	0.794	MM
2	200528R2_2	2.50	1.25	NO	34.12	1.000	2.16e4	9.70e5	2.50	0.1	0.890	MM
3	200528R2_3	10.0	1.28	NO	34.12	1.000	9.20e4	1.01e6	10.3	2.7	0.914	MM
4	200528R2_4	200	1.18	NO	34.12	1.001	2.16e6	1.18e6	206	2.8	0.914	db
5	200528R2_5	1500	1.19	NO	34.12	1.000	1.80e7	1.33e6	1520	1.2	0.900	db
6	200528R2_6	50.0	1.25	NO	34.13	1.000	4.22e5	9.14e5	51.9	3.8	0.923	MM

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 0.934102
 RRF SD: 0.0631666, Relative SD: 6.76228
 Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.09	NO	34.70	1.001	9.51e3	9.22e5	1.10	-11.7	0.825	bb
2	200528R2_2	2.50	1.26	NO	34.71	1.001	1.93e4	8.66e5	2.38	-4.7	0.890	bb
3	200528R2_3	10.0	1.25	NO	34.71	1.000	8.53e4	8.69e5	10.5	5.2	0.982	bd
4	200528R2_4	200	1.19	NO	34.71	1.001	2.00e6	1.04e6	207	3.3	0.965	bb
5	200528R2_5	1500	1.19	NO	34.72	1.001	1.72e7	1.18e6	1560	4.1	0.972	bb
6	200528R2_6	50.0	1.25	NO	34.72	1.000	3.88e5	8.00e5	51.9	3.9	0.971	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.870707
 RRF SD: 0.0533625, Relative SD: 6.12863
 Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.19	NO	35.61	1.001	7.48e3	7.73e5	1.11	-11.0	0.775	bb
2	200528R2_2	2.50	1.12	NO	35.61	1.000	1.48e4	7.04e5	2.42	-3.1	0.844	bb
3	200528R2_3	10.0	1.24	NO	35.62	1.000	6.49e4	7.27e5	10.3	2.5	0.892	bd
4	200528R2_4	200	1.20	NO	35.62	1.001	1.60e6	8.84e5	208	3.9	0.904	bb
5	200528R2_5	1500	1.20	NO	35.63	1.000	1.40e7	1.02e6	1580	5.6	0.919	bb
6	200528R2_6	50.0	1.22	NO	35.63	1.000	2.98e5	6.70e5	51.1	2.2	0.890	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 0.873391
 RRF SD: 0.0600077, Relative SD: 6.87065
 Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.03	NO	37.37	1.000	6.77e3	7.13e5	1.09	-13.1	0.759	bb
2	200528R2_2	2.50	0.94	NO	37.40	1.001	1.40e4	6.49e5	2.48	-0.9	0.866	bb

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	10.0	1.00	NO	37.40	1.001	5.72e4	6.48e5	10.1	1.0	0.883	bd
4	200528R2_4	200	0.99	NO	37.39	1.000	1.43e6	7.67e5	213	6.5	0.930	bb
5	200528R2_5	1500	1.00	NO	37.40	1.000	1.28e7	9.39e5	1560	3.7	0.906	bb
6	200528R2_6	50.0	0.98	NO	37.41	1.001	2.64e5	5.89e5	51.4	2.7	0.897	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.01285

RRF SD: 0.106215, Relative SD: 10.4867

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	39.33	1.001	5.26e3	5.09e5	1.02	-18.4	0.827	bb
2	200528R2_2	2.50	0.98	NO	39.33	1.000	1.03e4	4.36e5	2.33	-6.7	0.945	bb
3	200528R2_3	10.0	1.01	NO	39.34	1.000	4.43e4	4.19e5	10.4	4.3	1.06	MM
4	200528R2_4	200	0.98	NO	39.33	1.000	1.13e6	5.18e5	214	7.2	1.09	bb
5	200528R2_5	1500	1.00	NO	39.34	1.000	1.05e7	6.39e5	1620	8.2	1.10	bb
6	200528R2_6	50.0	0.98	NO	39.34	1.000	2.00e5	3.75e5	52.7	5.4	1.07	bb

Compound name: OCDF

Response Factor: 0.806476

RRF SD: 0.0306481, Relative SD: 3.80025

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.87	NO	41.96	1.000	1.27e4	1.35e6	2.33	-6.6	0.753	bb
2	200528R2_2	5.00	0.84	NO	41.96	1.000	2.40e4	1.22e6	4.89	-2.2	0.789	bb
3	200528R2_3	20.0	0.86	NO	41.96	1.000	9.80e4	1.18e6	20.6	3.0	0.831	bb
4	200528R2_4	400	0.87	NO	41.96	1.000	2.54e6	1.57e6	402	0.5	0.810	bb
5	200528R2_5	3000	0.88	NO	41.98	1.000	2.39e7	1.92e6	3090	3.1	0.831	bb
6	200528R2_6	100	0.85	NO	41.97	1.000	4.44e5	1.08e6	102	2.3	0.825	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.15633

RRF SD: 0.0999567, Relative SD: 8.64433

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	26.54	1.026	1.43e6	1.11e6	111	11.2	1.29	bb
2	200528R2_2	100	0.79	NO	26.54	1.025	1.29e6	1.24e6	89.8	-10.2	1.04	bb
3	200528R2_3	100	0.79	NO	26.54	1.025	1.31e6	1.26e6	89.8	-10.2	1.04	bb
4	200528R2_4	100	0.79	NO	26.54	1.025	1.50e6	1.26e6	103	2.8	1.19	bb
5	200528R2_5	100	0.78	NO	26.56	1.025	1.52e6	1.24e6	106	5.5	1.22	bb
6	200528R2_6	100	0.79	NO	26.56	1.025	1.16e6	9.95e5	101	0.8	1.17	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.848975

RRF SD: 0.0899186, Relative SD: 10.5914

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.64	NO	31.48	1.216	1.00e6	1.11e6	107	6.6	0.905	bb
2	200528R2_2	100	0.63	NO	31.50	1.216	9.36e5	1.24e6	88.7	-11.3	0.753	bb
3	200528R2_3	100	0.63	NO	31.50	1.216	9.29e5	1.26e6	86.8	-13.2	0.737	bb
4	200528R2_4	100	0.64	NO	31.50	1.216	1.11e6	1.26e6	103	3.3	0.877	bb
5	200528R2_5	100	0.64	NO	31.50	1.215	1.21e6	1.24e6	114	14.3	0.970	bb
6	200528R2_6	100	0.64	NO	31.50	1.215	8.48e5	9.95e5	100	0.3	0.852	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.778953

RRF SD: 0.096377, Relative SD: 12.3726

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.85	1.014	6.95e5	8.40e5	106	6.2	0.827	bd
2	200528R2_2	100	1.28	NO	34.87	1.014	6.46e5	9.66e5	85.9	-14.1	0.669	bd

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Compound name: 13C-1,2,3,4,7,8-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	1.27	NO	34.87	1.014	6.61e5	9.75e5	87.0	-13.0	0.678	bd
4	200528R2_4	100	1.28	NO	34.86	1.014	7.89e5	9.81e5	103	3.4	0.805	bd
5	200528R2_5	100	1.28	NO	34.87	1.014	9.34e5	1.01e6	119	18.6	0.924	bd
6	200528R2_6	100	1.27	NO	34.88	1.014	6.04e5	7.84e5	98.9	-1.1	0.770	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 1.01669

RRF SD: 0.116266, Relative SD: 11.4358

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.95	1.017	9.27e5	8.40e5	108	8.5	1.10	db
2	200528R2_2	100	1.27	NO	34.96	1.017	8.61e5	9.66e5	87.7	-12.3	0.891	db
3	200528R2_3	100	1.26	NO	34.97	1.017	8.39e5	9.75e5	84.7	-15.3	0.861	db
4	200528R2_4	100	1.25	NO	34.96	1.017	1.03e6	9.81e5	104	3.5	1.05	db
5	200528R2_5	100	1.27	NO	34.97	1.017	1.17e6	1.01e6	113	13.4	1.15	db
6	200528R2_6	100	1.23	NO	34.97	1.017	8.15e5	7.84e5	102	2.3	1.04	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.902653

RRF SD: 0.11238, Relative SD: 12.45

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.23	NO	35.24	1.025	8.33e5	8.40e5	110	9.8	0.991	bb
2	200528R2_2	100	1.26	NO	35.25	1.025	7.48e5	9.66e5	85.8	-14.2	0.774	bb
3	200528R2_3	100	1.28	NO	35.25	1.025	7.53e5	9.75e5	85.6	-14.4	0.773	bd
4	200528R2_4	100	1.23	NO	35.25	1.025	9.12e5	9.81e5	103	3.1	0.930	MM
5	200528R2_5	100	1.26	NO	35.26	1.025	1.06e6	1.01e6	116	16.1	1.05	bb
6	200528R2_6	100	1.18	NO	35.26	1.025	7.05e5	7.84e5	99.6	-0.4	0.899	bb

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

Response Factor: 0.689179
 RRF SD: 0.0899136, Relative SD: 13.0465
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.06	NO	38.77	1.128	6.48e5	8.40e5	112	11.9	0.771	MM
2	200528R2_2	100	1.04	NO	38.78	1.128	6.01e5	9.66e5	90.2	-9.8	0.622	bd
3	200528R2_3	100	1.12	NO	38.79	1.128	5.57e5	9.75e5	83.0	-17.0	0.572	bd
4	200528R2_4	100	1.04	NO	38.78	1.128	6.86e5	9.81e5	102	1.6	0.700	MM
5	200528R2_5	100	1.03	NO	38.80	1.128	8.18e5	1.01e6	117	17.4	0.809	bb
6	200528R2_6	100	1.04	NO	38.80	1.128	5.18e5	7.84e5	95.9	-4.1	0.661	bd

Compound name: 13C-OCDD

Response Factor: 0.652099
 RRF SD: 0.111511, Relative SD: 17.1002
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.89	NO	41.75	1.215	1.18e6	8.40e5	216	7.8	0.703	MM
2	200528R2_2	200	0.89	NO	41.76	1.215	1.05e6	9.66e5	167	-16.3	0.546	MM
3	200528R2_3	200	0.91	NO	41.76	1.214	1.03e6	9.75e5	162	-18.9	0.529	bd
4	200528R2_4	200	0.90	NO	41.76	1.215	1.35e6	9.81e5	211	5.7	0.689	bd
5	200528R2_5	200	0.93	NO	41.78	1.215	1.67e6	1.01e6	254	26.9	0.827	bd
6	200528R2_6	200	0.88	NO	41.77	1.215	9.71e5	7.84e5	190	-5.1	0.619	bd

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.05898
 RRF SD: 0.0854755, Relative SD: 8.07146
 Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.76	NO	25.65	0.991	1.95e6	1.65e6	112	12.1	1.19	bb
2	200528R2_2	100	0.77	NO	25.66	0.991	1.78e6	1.83e6	92.1	-7.9	0.975	bb

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Compound name: 13C-2,3,7,8-TCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.78	NO	25.66	0.991	1.80e6	1.89e6	90.1	-9.9	0.955	bb
4	200528R2_4	100	0.78	NO	25.66	0.991	2.04e6	1.91e6	101	1.0	1.07	bb
5	200528R2_5	100	0.78	NO	25.67	0.991	2.04e6	1.85e6	104	4.2	1.10	bb
6	200528R2_6	100	0.77	NO	25.68	0.991	1.59e6	1.49e6	101	0.5	1.06	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.837982

RRF SD: 0.0870192, Relative SD: 10.3844

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.59	NO	30.20	1.167	1.50e6	1.65e6	109	9.0	0.913	bb
2	200528R2_2	100	1.59	NO	30.22	1.167	1.37e6	1.83e6	89.3	-10.7	0.748	bb
3	200528R2_3	100	1.59	NO	30.22	1.167	1.38e6	1.89e6	86.9	-13.1	0.728	bb
4	200528R2_4	100	1.61	NO	30.22	1.167	1.63e6	1.91e6	102	1.9	0.854	bb
5	200528R2_5	100	1.63	NO	30.22	1.166	1.75e6	1.85e6	113	12.9	0.946	bb
6	200528R2_6	100	1.60	NO	30.23	1.166	1.25e6	1.49e6	100	0.0	0.838	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.816557

RRF SD: 0.0702322, Relative SD: 8.60101

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.60	NO	31.18	1.204	1.42e6	1.65e6	106	5.9	0.865	db
2	200528R2_2	100	1.57	NO	31.19	1.204	1.35e6	1.83e6	90.7	-9.3	0.741	db
3	200528R2_3	100	1.61	NO	31.19	1.204	1.38e6	1.89e6	89.4	-10.6	0.730	db
4	200528R2_4	100	1.61	NO	31.19	1.204	1.57e6	1.91e6	101	1.0	0.825	db
5	200528R2_5	100	1.60	NO	31.19	1.204	1.69e6	1.85e6	112	11.5	0.911	bb
6	200528R2_6	100	1.59	NO	31.21	1.204	1.24e6	1.49e6	101	1.4	0.828	db

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.00752

RRF SD: 0.115021, Relative SD: 11.4162

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	33.97	0.988	9.42e5	8.40e5	111	11.3	1.12	bd
2	200528R2_2	100	0.50	NO	33.98	0.988	8.49e5	9.66e5	87.2	-12.8	0.878	bd
3	200528R2_3	100	0.50	NO	33.98	0.988	8.47e5	9.75e5	86.2	-13.8	0.869	bd
4	200528R2_4	100	0.50	NO	33.98	0.988	1.02e6	9.81e5	103	3.0	1.04	bd
5	200528R2_5	100	0.50	NO	33.99	0.988	1.15e6	1.01e6	113	12.7	1.14	bd
6	200528R2_6	100	0.50	NO	33.99	0.988	7.87e5	7.84e5	99.6	-0.4	1.00	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.16702

RRF SD: 0.127304, Relative SD: 10.9085

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.09	0.992	1.07e6	8.40e5	110	9.5	1.28	db
2	200528R2_2	100	0.51	NO	34.11	0.992	9.70e5	9.66e5	86.1	-13.9	1.00	db
3	200528R2_3	100	0.51	NO	34.11	0.992	1.01e6	9.75e5	88.5	-11.5	1.03	db
4	200528R2_4	100	0.51	NO	34.10	0.992	1.18e6	9.81e5	103	3.1	1.20	db
5	200528R2_5	100	0.51	NO	34.11	0.992	1.33e6	1.01e6	113	13.0	1.32	db
6	200528R2_6	100	0.50	NO	34.12	0.992	9.14e5	7.84e5	99.8	-0.2	1.17	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 1.02186

RRF SD: 0.110658, Relative SD: 10.829

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	34.68	1.009	9.22e5	8.40e5	107	7.4	1.10	bb
2	200528R2_2	100	0.50	NO	34.69	1.009	8.66e5	9.66e5	87.7	-12.3	0.896	bb

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Compound name: 13C-2,3,4,6,7,8-HxCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	100	0.51	NO	34.70	1.009	8.69e5	9.75e5	87.2	-12.8	0.891	bb
4	200528R2_4	100	0.51	NO	34.69	1.009	1.04e6	9.81e5	104	3.6	1.06	bb
5	200528R2_5	100	0.50	NO	34.70	1.009	1.18e6	1.01e6	114	14.3	1.17	bb
6	200528R2_6	100	0.51	NO	34.71	1.009	8.00e5	7.84e5	99.8	-0.2	1.02	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.859541

RRF SD: 0.107178, Relative SD: 12.4692

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	35.59	1.036	7.73e5	8.40e5	107	7.0	0.919	MM
2	200528R2_2	100	0.50	NO	35.61	1.036	7.04e5	9.66e5	84.8	-15.2	0.729	MM
3	200528R2_3	100	0.50	NO	35.61	1.036	7.27e5	9.75e5	86.8	-13.2	0.746	MM
4	200528R2_4	100	0.49	NO	35.60	1.036	8.84e5	9.81e5	105	4.9	0.902	bb
5	200528R2_5	100	0.51	NO	35.62	1.036	1.02e6	1.01e6	117	17.3	1.01	bb
6	200528R2_6	100	0.51	NO	35.63	1.036	6.70e5	7.84e5	99.3	-0.7	0.854	bd

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

Response Factor: 0.774499

RRF SD: 0.102271, Relative SD: 13.2048

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.44	NO	37.37	1.087	7.13e5	8.40e5	110	9.6	0.849	bd
2	200528R2_2	100	0.42	NO	37.38	1.087	6.49e5	9.66e5	86.7	-13.3	0.672	bb
3	200528R2_3	100	0.44	NO	37.38	1.087	6.48e5	9.75e5	85.9	-14.1	0.665	bd
4	200528R2_4	100	0.44	NO	37.38	1.087	7.67e5	9.81e5	101	0.9	0.782	bb
5	200528R2_5	100	0.44	NO	37.39	1.087	9.39e5	1.01e6	120	19.9	0.928	bd
6	200528R2_6	100	0.43	NO	37.39	1.087	5.89e5	7.84e5	97.0	-3.0	0.751	bb

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.520991

RRF SD: 0.083066, Relative SD: 15.9439

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.43	NO	39.31	1.144	5.09e5	8.40e5	116	16.3	0.606	MM
2	200528R2_2	100	0.42	NO	39.32	1.144	4.36e5	9.66e5	86.7	-13.3	0.452	bb
3	200528R2_3	100	0.42	NO	39.33	1.144	4.19e5	9.75e5	82.5	-17.5	0.430	MM
4	200528R2_4	100	0.42	NO	39.32	1.144	5.18e5	9.81e5	101	1.4	0.529	MM
5	200528R2_5	100	0.44	NO	39.33	1.144	6.39e5	1.01e6	121	21.3	0.632	bb
6	200528R2_6	100	0.43	NO	39.34	1.144	3.75e5	7.84e5	91.8	-8.2	0.478	bd

Compound name: 13C-OCDF

Response Factor: 0.745653

RRF SD: 0.129429, Relative SD: 17.3579

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.87	NO	41.94	1.220	1.35e6	8.40e5	215	7.6	0.803	bb
2	200528R2_2	200	0.83	NO	41.95	1.220	1.22e6	9.66e5	169	-15.4	0.631	bb
3	200528R2_3	200	0.90	NO	41.96	1.220	1.18e6	9.75e5	162	-18.8	0.605	bd
4	200528R2_4	200	0.88	NO	41.95	1.220	1.57e6	9.81e5	215	7.3	0.800	MM
5	200528R2_5	200	0.88	NO	41.97	1.220	1.92e6	1.01e6	254	27.2	0.949	bb
6	200528R2_6	200	0.90	NO	41.96	1.220	1.08e6	7.84e5	184	-7.9	0.687	MM

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.03685

RRF SD: 0.126311, Relative SD: 12.1822

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250			26.57	1.027	2.71e3	1.11e6	0.235	-5.9	0.976	bb
2	200528R2_2	0.500			26.56	1.025	5.67e3	1.24e6	0.440	-11.9	0.913	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	2.00			26.57	1.026	2.30e4	1.26e6	1.76	-12.0	0.912	bd
4	200528R2_4	40.0			26.56	1.025	5.78e5	1.26e6	44.1	10.2	1.14	bb
5	200528R2_5	200			26.57	1.025	3.03e6	1.24e6	235	17.7	1.22	bb
6	200528R2_6	10.0			26.59	1.026	1.05e5	9.95e5	10.2	2.1	1.06	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	25.89	1.000	1.11e6	1.11e6	100	0.0	1.00	bb
2	200528R2_2	100	0.81	NO	25.90	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
3	200528R2_3	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
4	200528R2_4	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
5	200528R2_5	100	0.80	NO	25.92	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
6	200528R2_6	100	0.80	NO	25.92	1.000	9.95e5	9.95e5	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.78	NO	24.22	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	200528R2_2	100	0.78	NO	24.22	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
3	200528R2_3	100	0.78	NO	24.22	1.000	1.89e6	1.89e6	100	0.0	1.00	bb
4	200528R2_4	100	0.79	NO	24.22	1.000	1.91e6	1.91e6	100	0.0	1.00	bb
5	200528R2_5	100	0.79	NO	24.24	1.000	1.85e6	1.85e6	100	0.0	1.00	bb
6	200528R2_6	100	0.77	NO	24.24	1.000	1.49e6	1.49e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time
Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.37	1.000	8.40e5	8.40e5	100	0.0	1.00	bb
2	200528R2_2	100	0.51	NO	34.38	1.000	9.66e5	9.66e5	100	0.0	1.00	bb
3	200528R2_3	100	0.51	NO	34.39	1.000	9.75e5	9.75e5	100	0.0	1.00	bb
4	200528R2_4	100	0.51	NO	34.38	1.000	9.81e5	9.81e5	100	0.0	1.00	bb
5	200528R2_5	100	0.51	NO	34.39	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
6	200528R2_6	100	0.50	NO	34.39	1.000	7.84e5	7.84e5	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.59
2	2 1,2,8,9-TCDD (Last)	27.53
3	3 1,2,4,7,9-PeCDD (First)	29.32
4	4 1,2,3,8,9-PeCDD (Last)	31.89
5	5 1,2,4,6,7,9-HxCDD (First)	33.39
6	6 1,2,3,7,8,9-HxCDD (Last)	35.27
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.81
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.81
9	9 1,3,6,8-TCDF (First)	20.44
10	10 1,2,8,9-TCDF (Last)	27.68
11	11 1,3,4,6,8-PeCDF (First)	27.64
12	12 1,2,3,8,9-PeCDF (Last)	32.14
13	13 1,2,3,4,6,8-HxCDF (First)	32.83
14	14 1,2,3,7,8,9-HxCDF (Last)	35.63
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.41
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.34

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld

Last Altered: Thursday, May 28, 2020 16:40:33 Pacific Daylight Time

Printed: Thursday, May 28, 2020 16:57:10 Pacific Daylight Time

GRB 05/29/2020

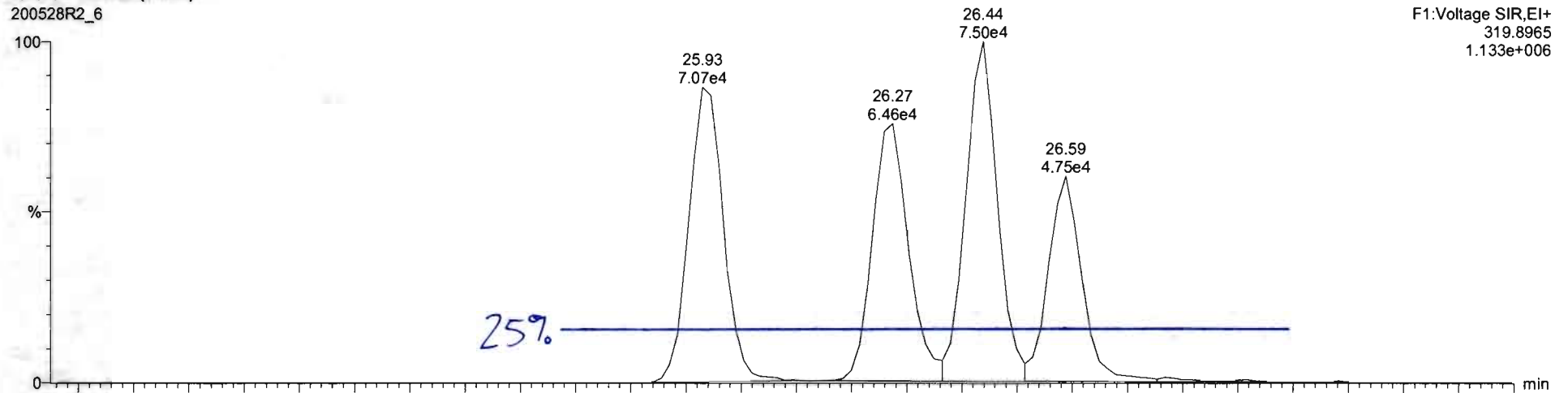
Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

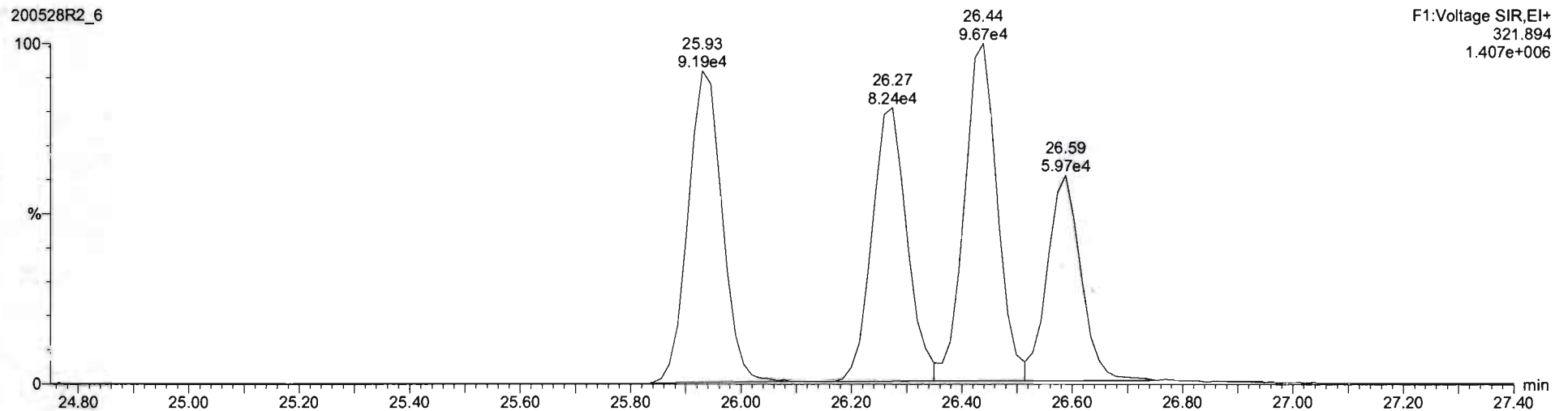
Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200528R2_6



200528R2_6



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, May 29, 2020 8:08:41 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 8:08:46 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

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

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

	Name	ID	Acq.Date	Acq.Time
1	200528R2_1	ST200528R2_1 1613 CS0 19L2302	28-May-20	11:53:52
2	200528R2_2	ST200528R2_2 1613 CS1 19L2303	28-May-20	12:41:31
3	200528R2_3	ST200528R2_3 1613 CS2 19L2304	28-May-20	13:28:43
4	200528R2_4	ST200528R2_4 1613 CS4 19L2306	28-May-20	14:15:50
5	200528R2_5	ST200528R2_5 1613 CS5 19L2307	28-May-20	15:02:56
6	200528R2_6	ST200528R2_6 1613 CS3 19L2305	28-May-20	15:50:32
7	200528R2_7	SOLVENT BLANK	28-May-20	16:37:46
8	200528R2_8	SS200528R2_1 1613 SSS 19L2308	28-May-20	17:24:01
9	200528R2_9	B0E0131-BS1 OPR 1	28-May-20	18:10:13
10	200528R2_10	B0E0165-BS1 OPR 1	28-May-20	18:56:26
11	200528R2_11	B0E0127-BS1 OPR 1	28-May-20	19:42:36
12	200528R2_12	B0E0180-BS1 OPR 10	28-May-20	20:28:48
13	200528R2_13	SOLVENT BLANK	28-May-20	21:15:00
14	200528R2_14	B0E0180-BLK1 Method Blank 10	28-May-20	22:01:12
15	200528R2_15	B0E0131-BLK1 Method Blank 1	28-May-20	22:47:24
16	200528R2_16	B0E0165-BLK1 Method Blank 1	28-May-20	23:33:37
17	200528R2_17	B0E0127-BLK1 Method Blank 1	29-May-20	00:19:48
18	200528R2_18	2001052-01 ZID-001 1.00002	29-May-20	01:06:00
19	200528R2_19	2001031-01 Forebay Composite (24hr) 0.95078	29-May-20	01:52:12
20	200528R2_20	2001092-01 OF-031A BiWeekly Composite D/...	29-May-20	02:38:24

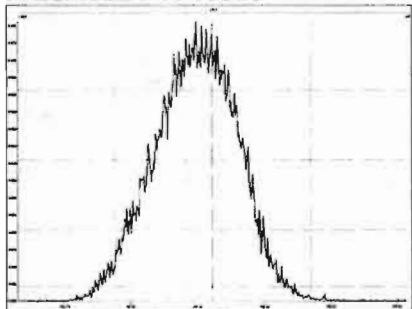
Experiment Calibration Report

MassLynx 4.1 SCN815

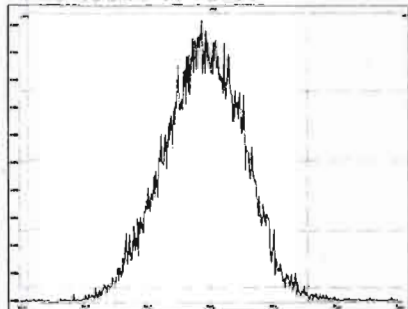
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Printed: Thursday, May 28, 2020 11:48:59 Pacific Daylight Time

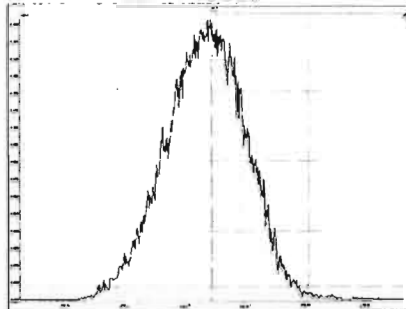
M 292.9824 R 10503



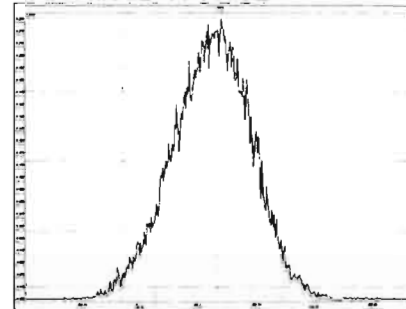
M 304.9824 R 10376



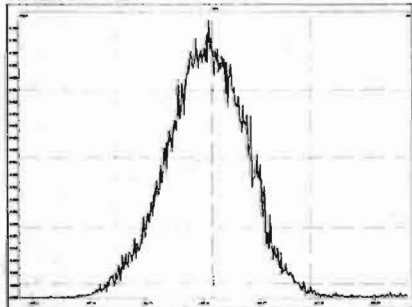
M 318.9792 R 10589



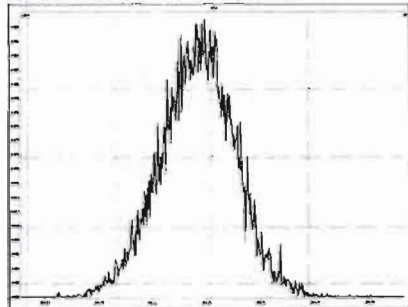
M 330.9792 R 10552



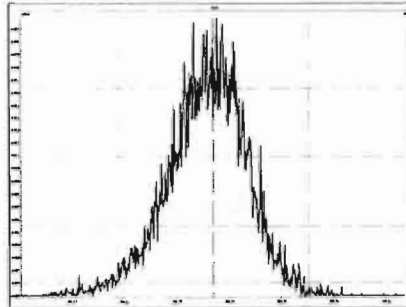
M 342.9792 R 10247



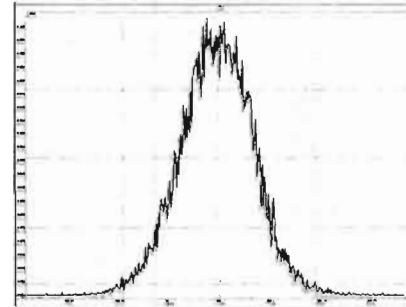
M 354.9792 R 10330



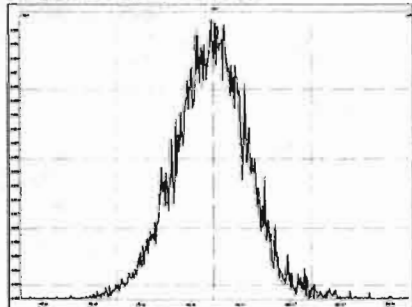
M 366.9792 R 11417



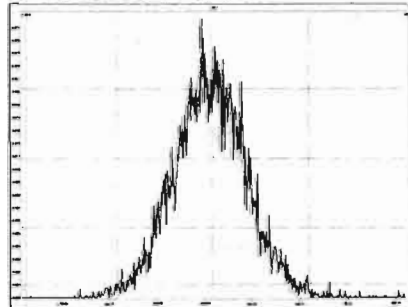
M 380.9760 R 11062



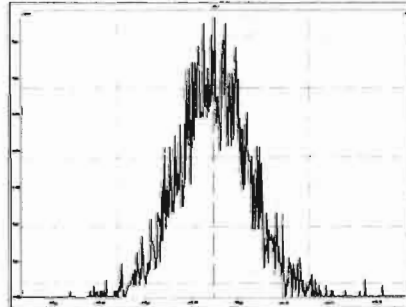
M 392.9760 R 11790



M 404.9760 R 12316



M 416.9760 R 12754



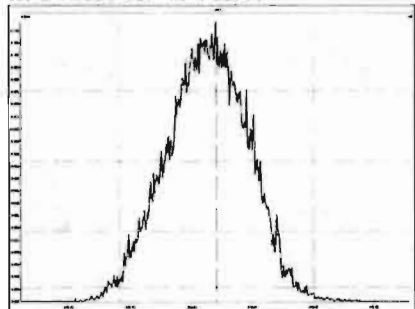
Experiment Calibration Report

MassLynx 4.1 SCN815

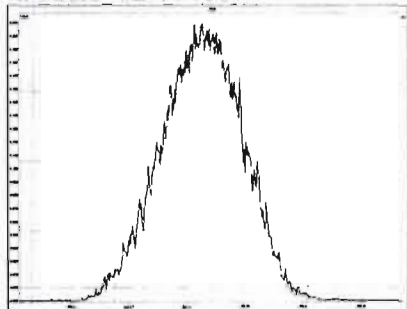
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:49:33 Pacific Daylight Time

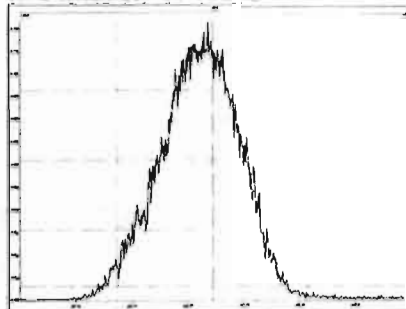
M 318.9792 R 10247



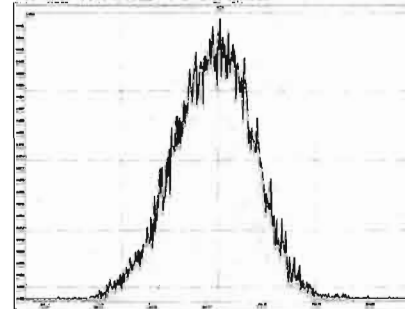
M 330.9792 R 10372



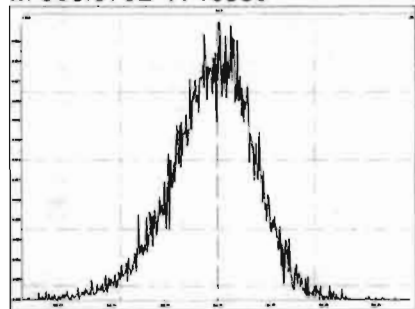
M 342.9792 R 10370



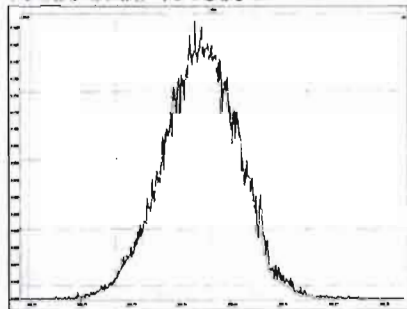
M 354.9792 R 10822



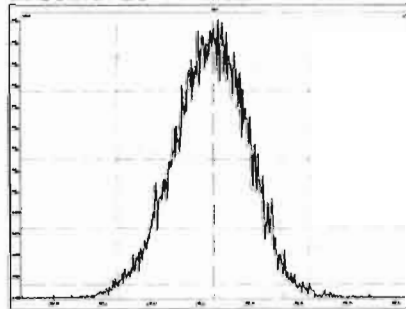
M 366.9792 R 10963



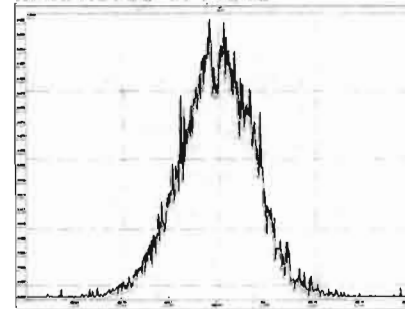
M 380.9760 R 10594



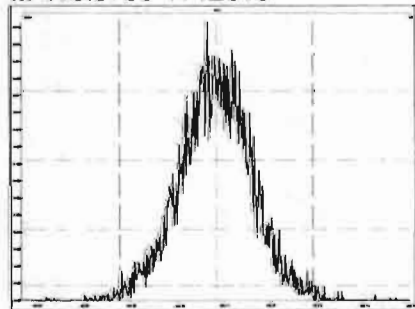
M 392.9760 R 10821



M 404.9760 R 11845



M 416.9760 R 12018



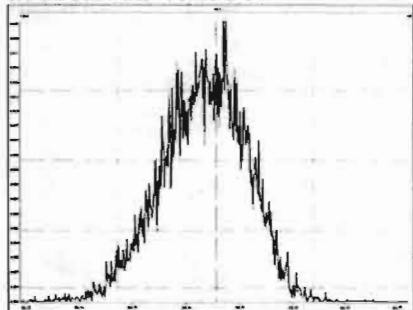
Experiment Calibration Report

MassLynx 4.1 SCN815

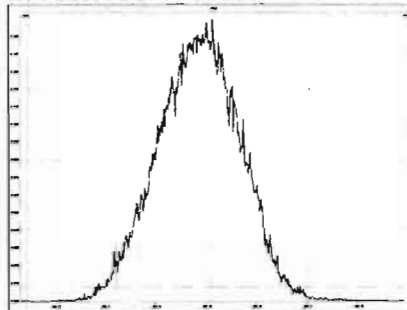
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Printed: Thursday, May 28, 2020 11:50:12 Pacific Daylight Time

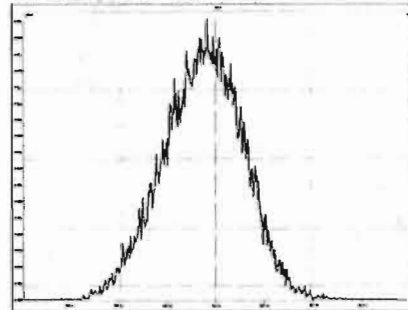
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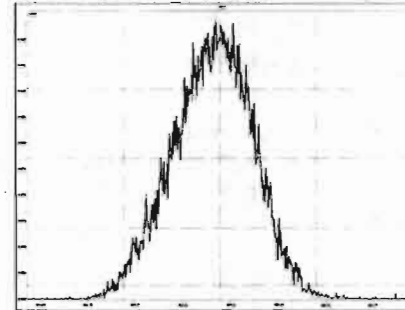
M 380.9760 R 10331



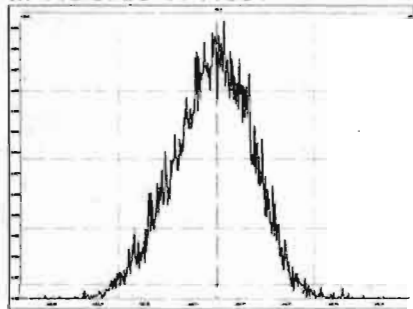
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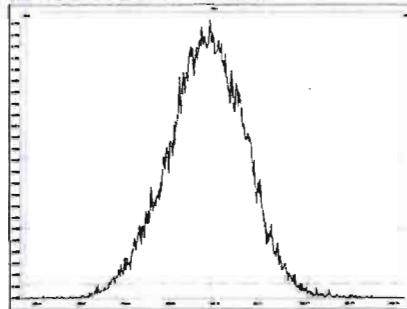
M 404.9760 R 10505



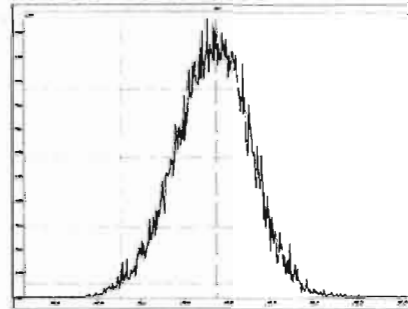
M 416.9760 R 11061



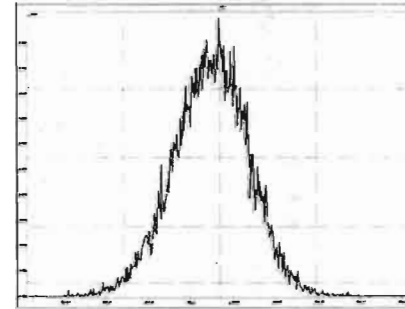
M 430.9728 R 10290



M 442.9728 R 10593



M 454.9728 R 10919



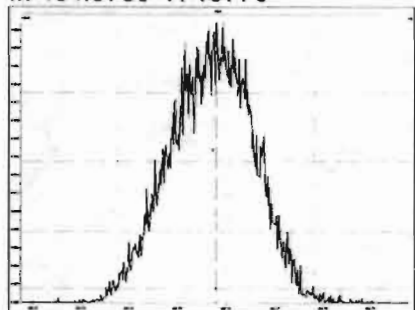
Experiment Calibration Report

MassLynx 4.1 SCN815

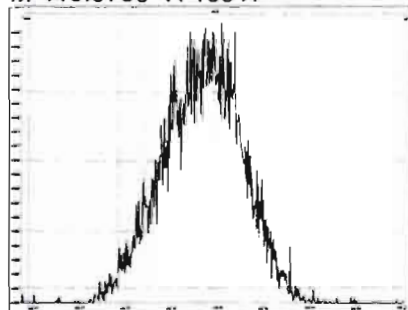
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Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time

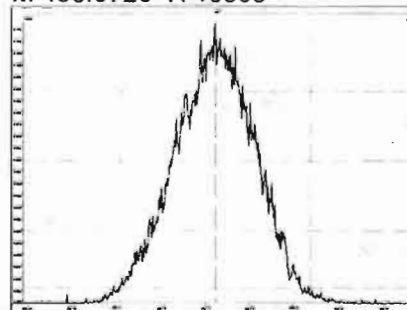
M 404.9760 R 10778



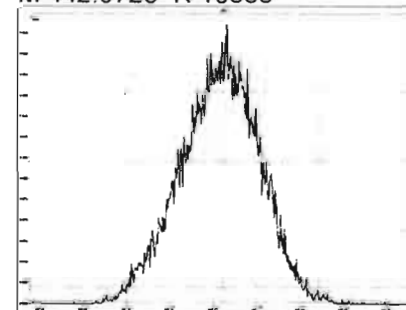
M 416.9760 R 10917



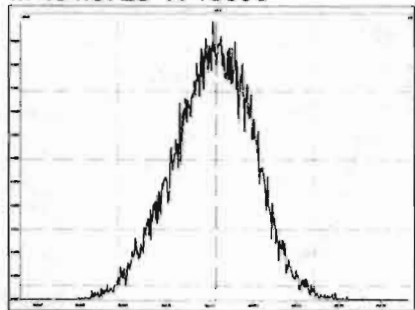
M 430.9728 R 10503



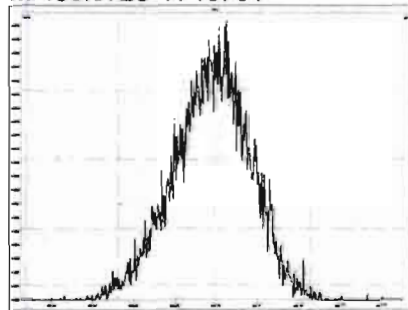
M 442.9728 R 10636



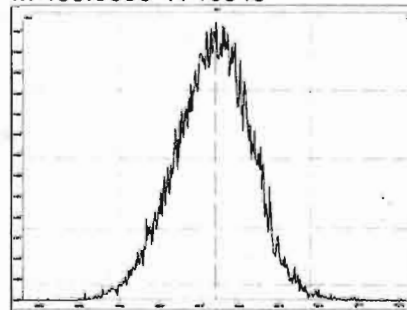
M 454.9728 R 10638



M 466.9728 R 10731



M 480.9696 R 10545



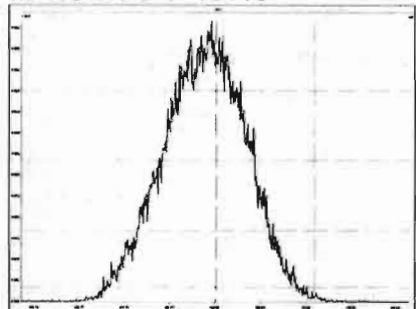
Experiment Calibration Report

MassLynx 4.1 SCN815

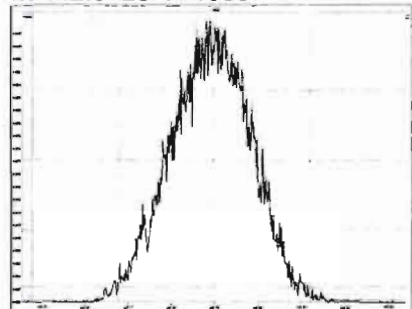
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Printed: Thursday, May 28, 2020 11:51:45 Pacific Daylight Time

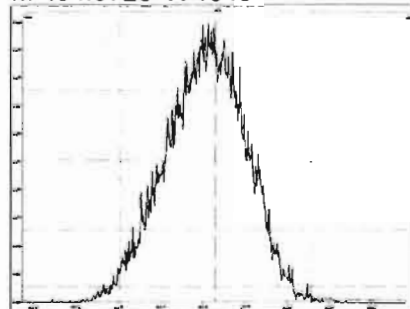
M 430.9728 R 10118



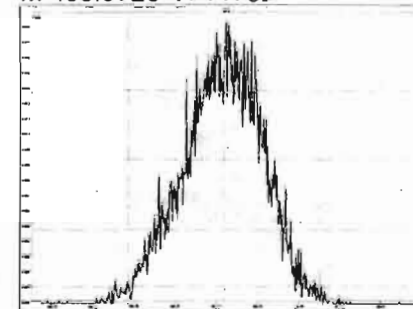
M 442.9728 R 10637



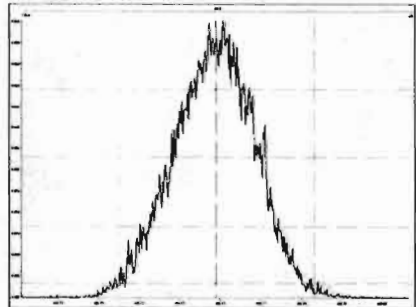
M 454.9728 R 10461



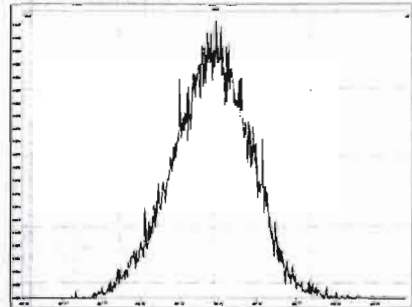
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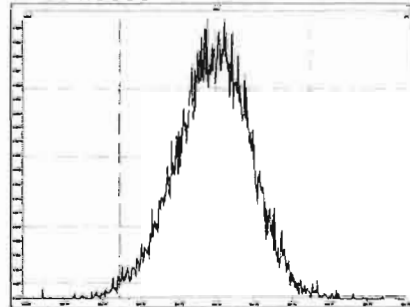
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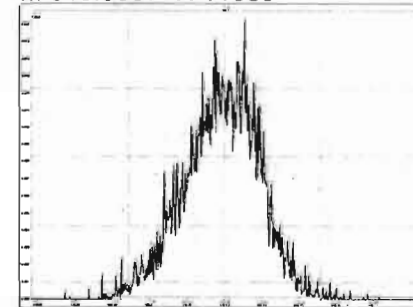
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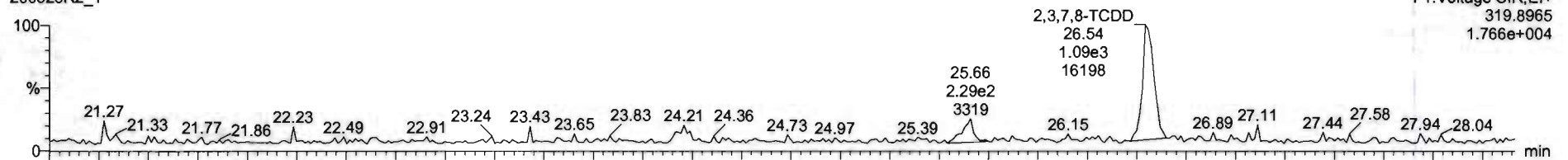
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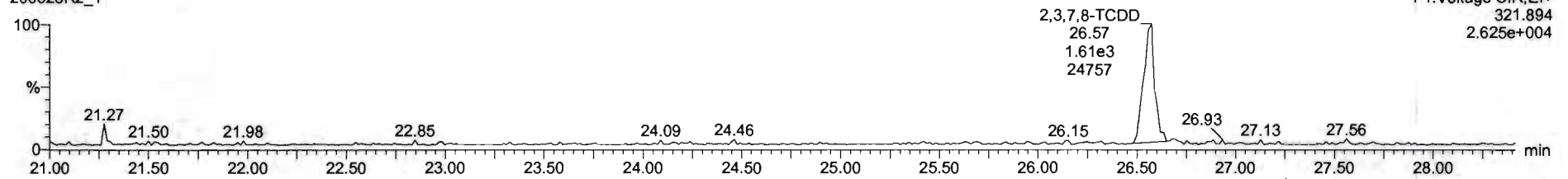
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2,3,7,8-TCDD

200528R2_1

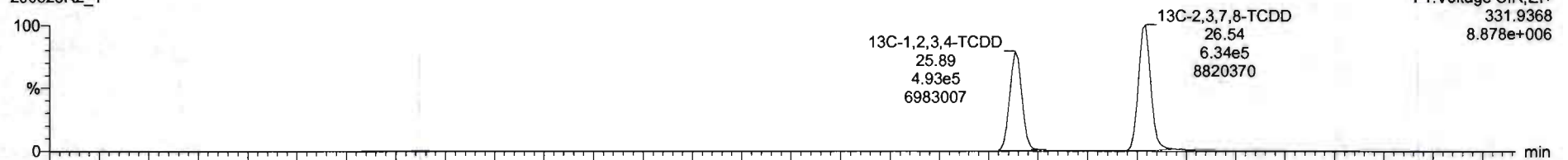


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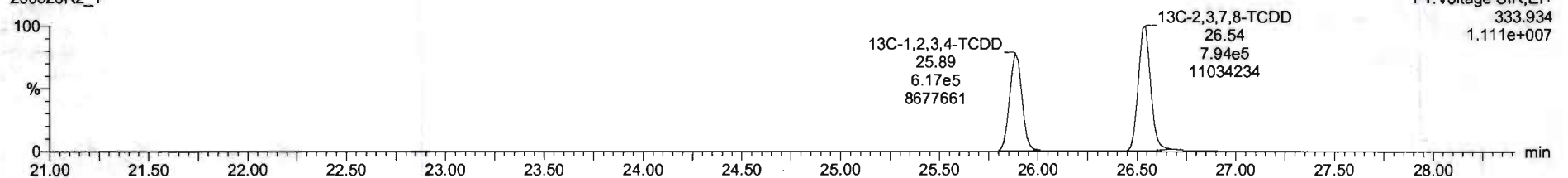


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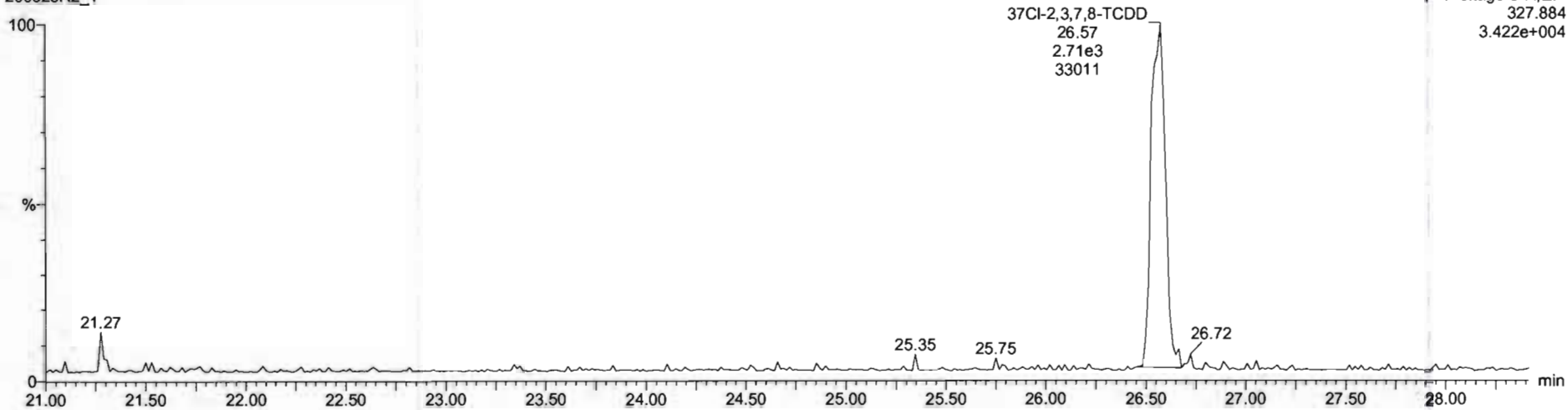
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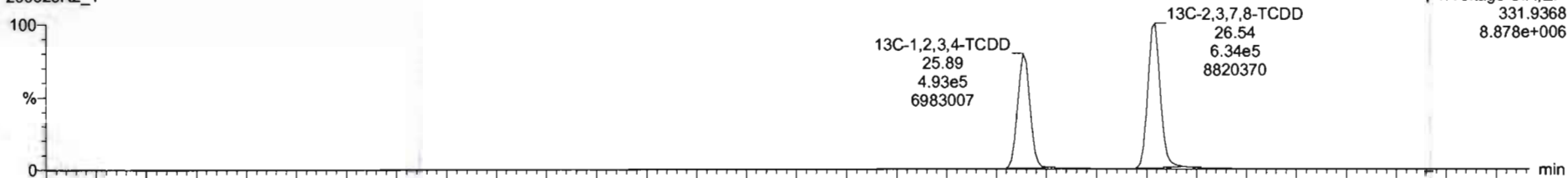
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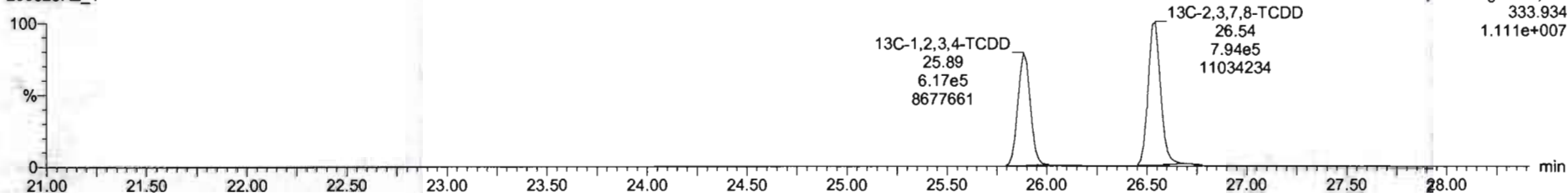


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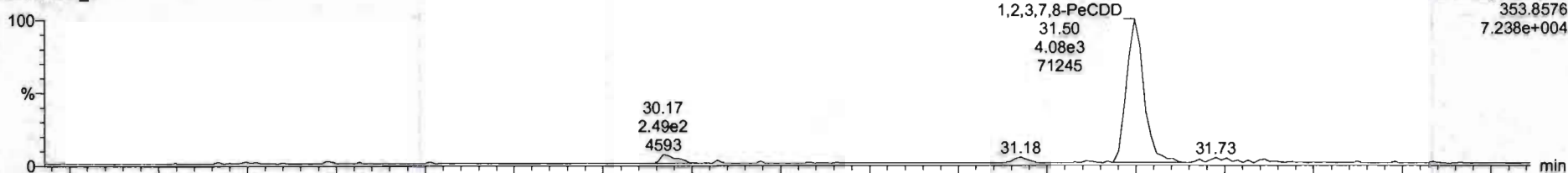
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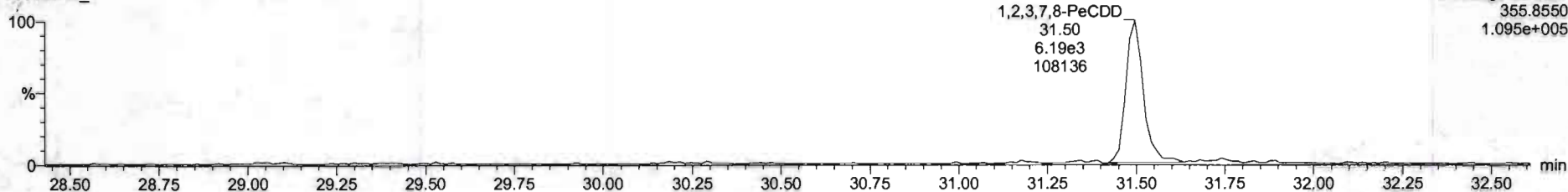
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1,2,3,7,8-PeCDD

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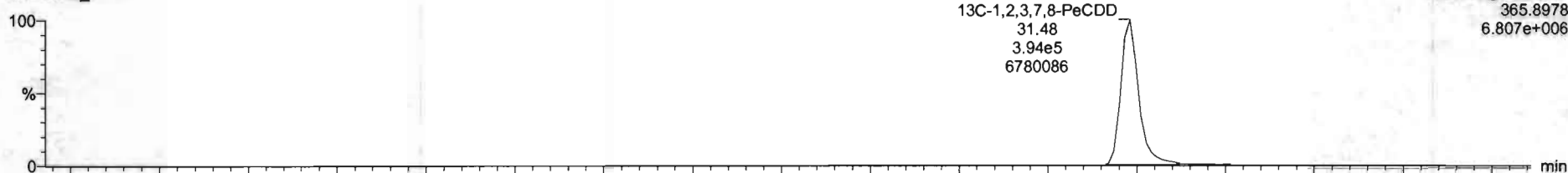


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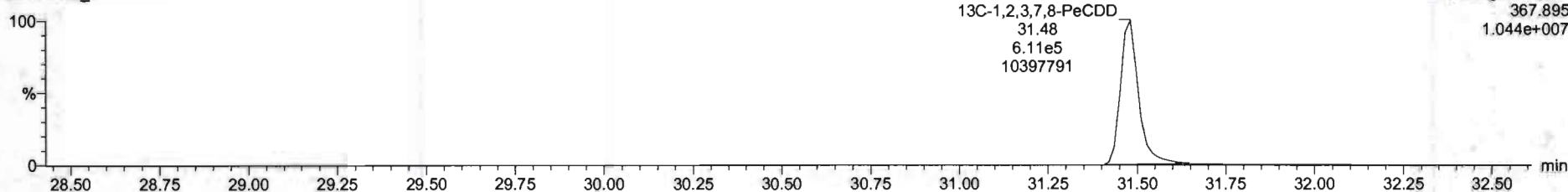


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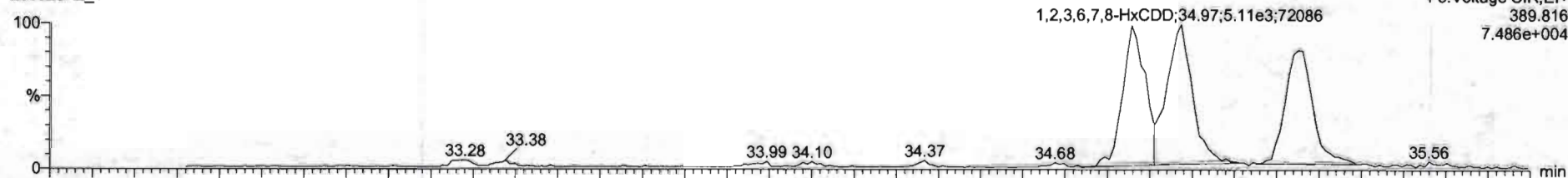
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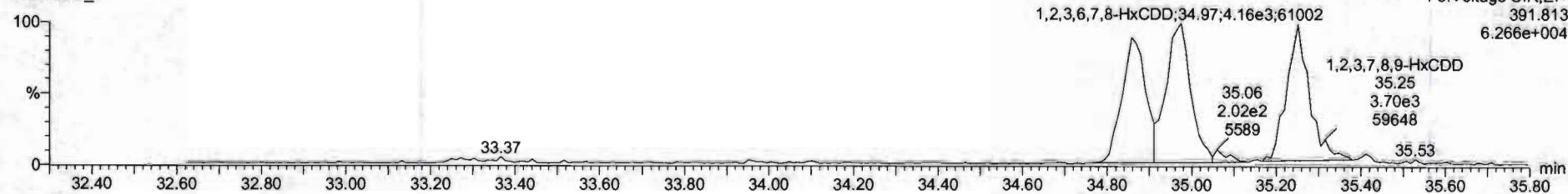
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1,2,3,4,7,8-HxCDD

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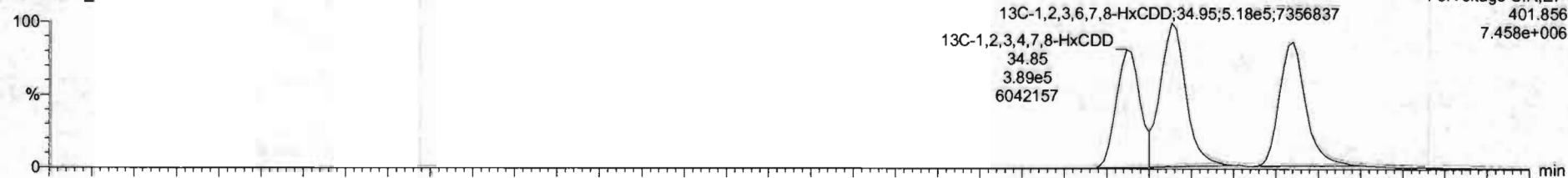


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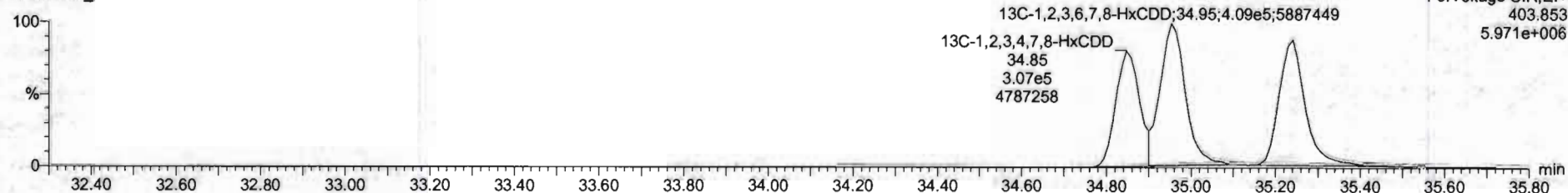


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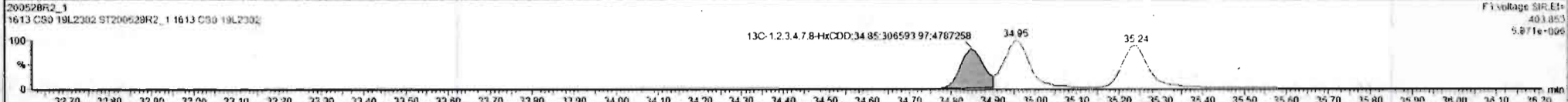
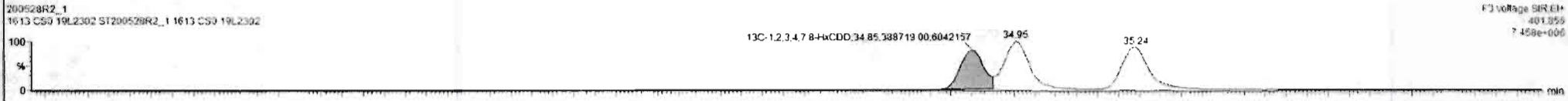
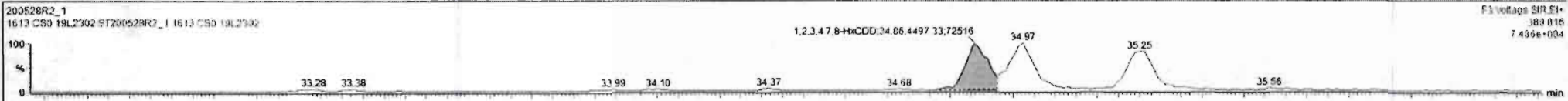
200528R2_1



200528R2_1



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2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0428	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8539	1.000	36.75	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.23e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	39.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0369	1.09
10	1,2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8562	1.000	34.11	1.001	1.12	89.2	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8787	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.30	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19	13C-1,2,3,7,8-PeCDD	1.06e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



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200528R2_1 CAP NUM

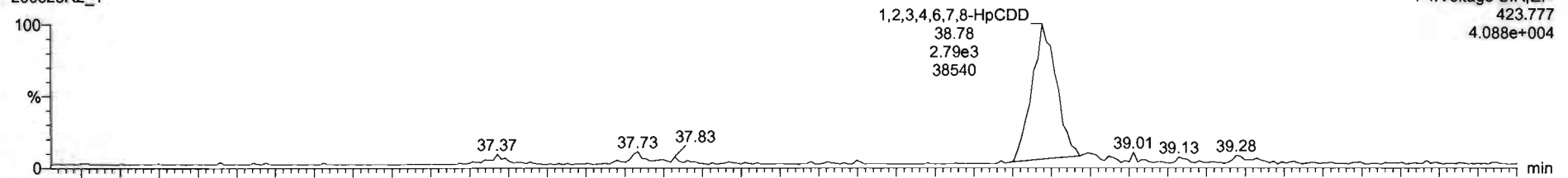
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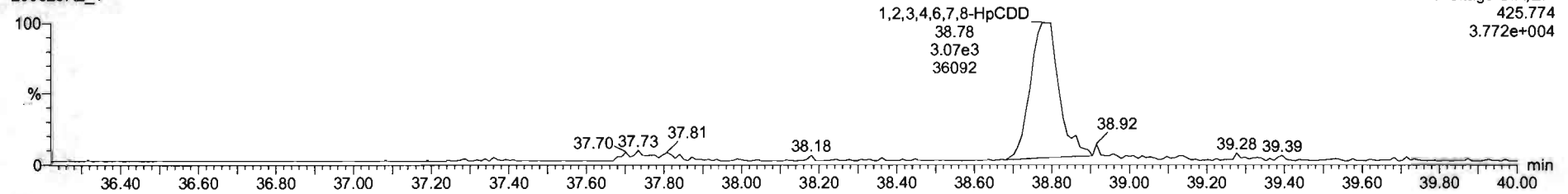
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1,2,3,4,6,7,8-HpCDD

200528R2_1

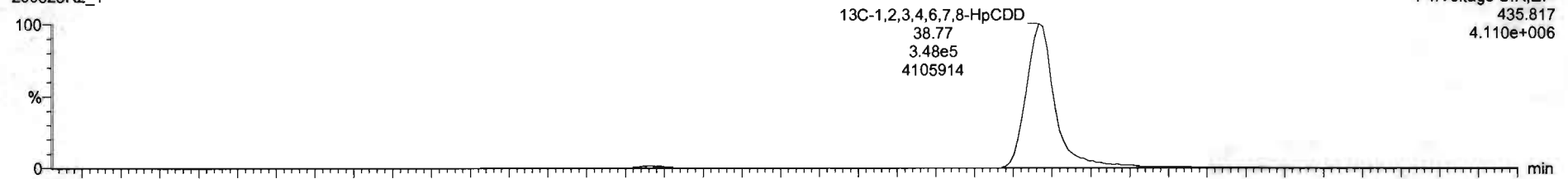


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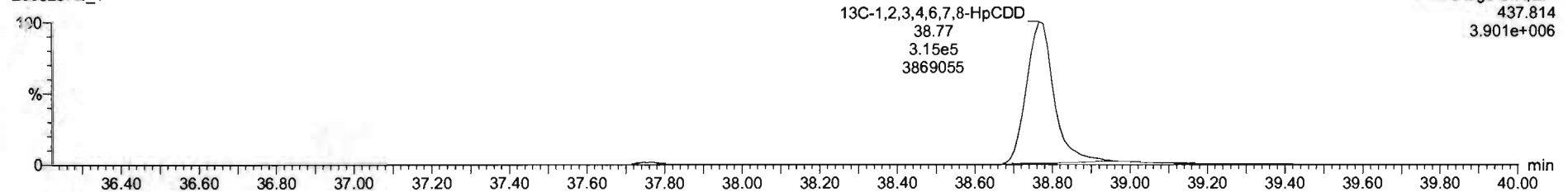


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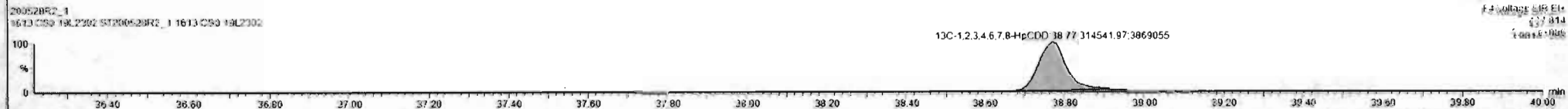
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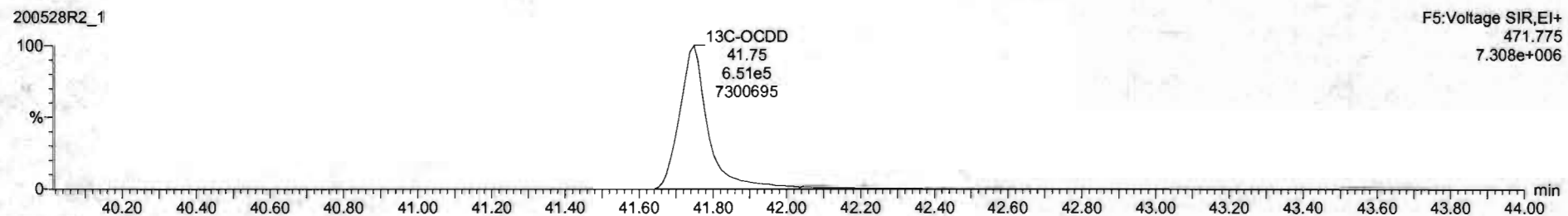
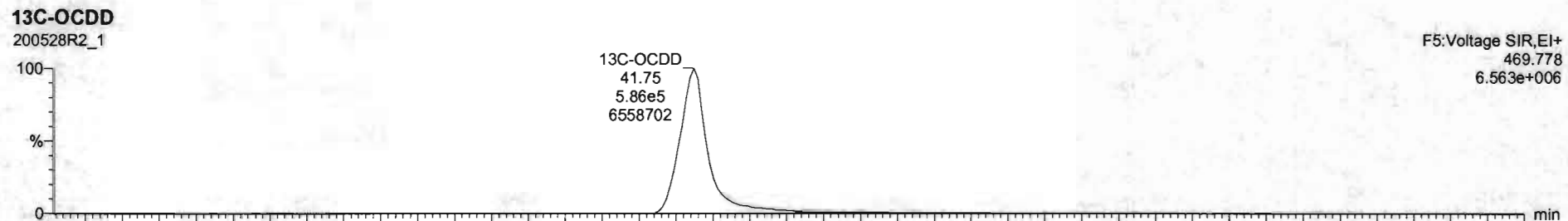
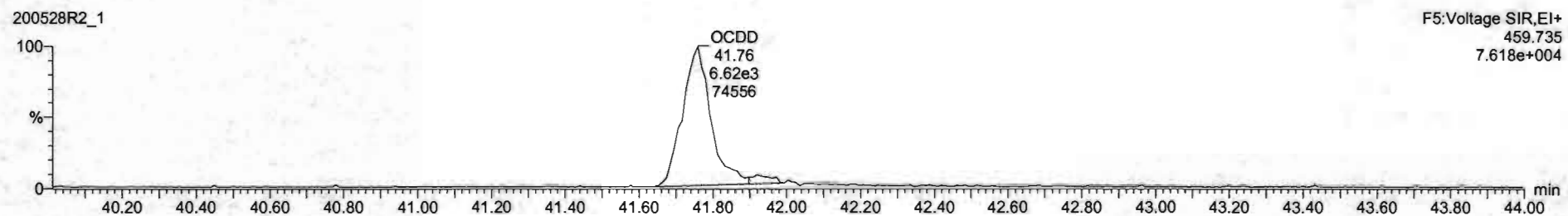
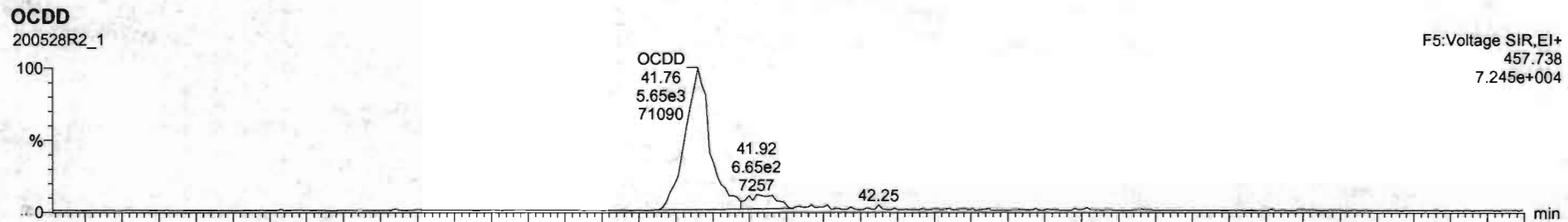
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2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0282	1.12
3	1,2,3,4,7,8-HxCDD	5.02e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	69.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	6.14e3	1.30	NO	0.8065	1.000	35.25	1.000	1.10	86.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8839	1.000	36.70	1.000	1.09	87.2	0.0506	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.70	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.323	89.1	0.0142	0.222
9	1,2,3,7,8-PeCDF	1.46e4	1.51	NO	0.8925	1.000	30.20	1.000	1.09	67.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8052	1.000	34.11	1.001	1.12	88.2	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HxCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e8	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8450	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



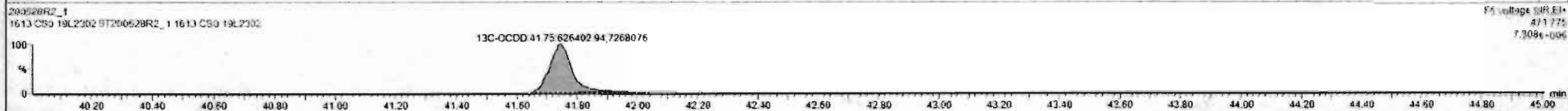
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#	Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8863	1.000	26.54	1.000	0.212	85.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	34.06	1.000	1.12	69.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9138	1.000	41.78	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.96e3	1.25	NO	0.8845	1.000	33.99	1.001	1.03	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8552	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0379	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.02	81.8	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	28.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	8.95e5	1.27	NO	0.7750	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0187	1.000	34.95	1.017	108	108	0.243	



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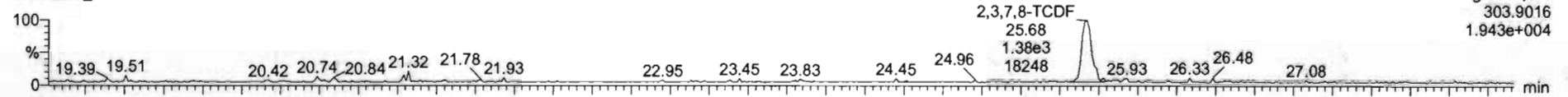
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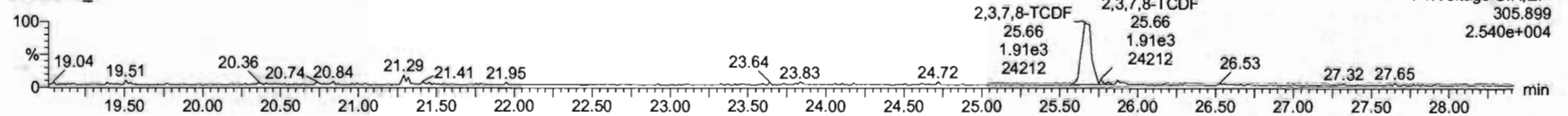
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2,3,7,8-TCDF

200528R2_1

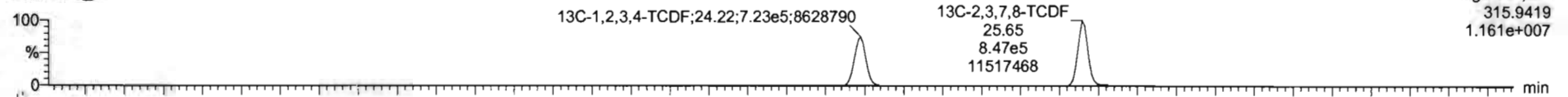


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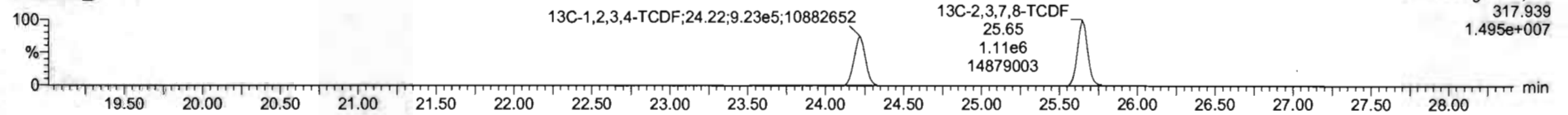


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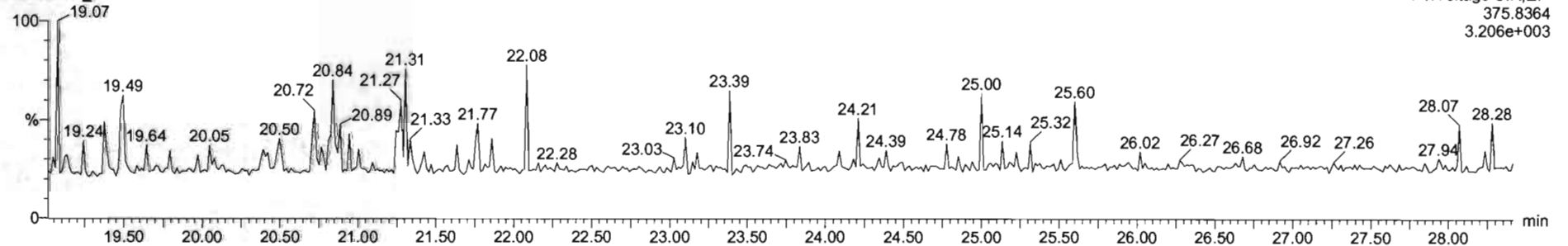


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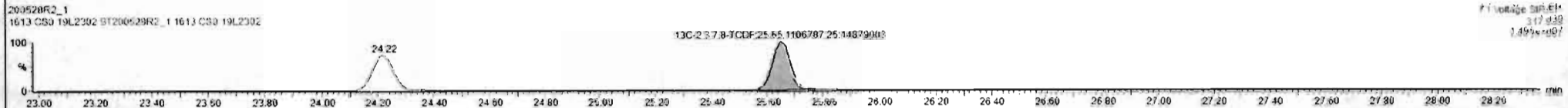
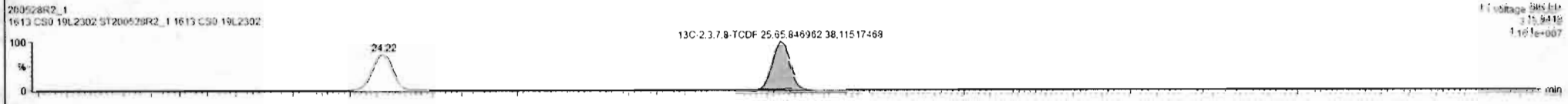
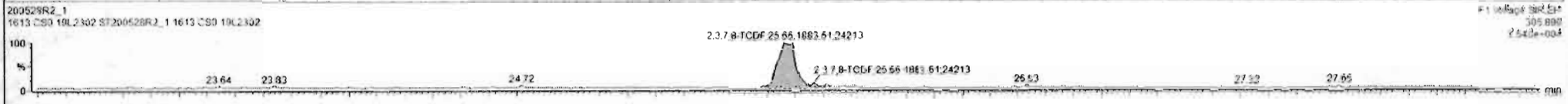
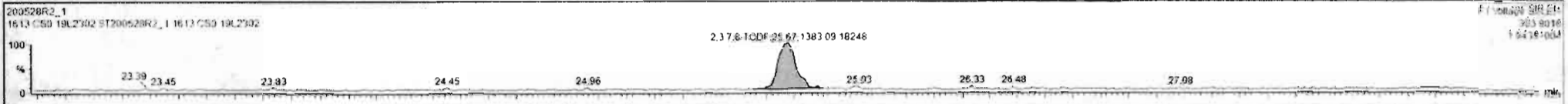


DPE1

200528R2_1



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.70e3	0.68	NO	0.8883	1.000	26.54	1.000	0.212	95.2	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	21.50	1.000	1.12	90.6	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e2	1.27	NO	1.0334	1.000	34.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.13	89.7	0.0465	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8865	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0140	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	20.20	1.006	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	8.95e3	1.25	NO	0.8845	1.000	33.99	1.001	1.00	86.2	0.0369	1.00
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8862	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0624	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.33	1.001	1.02	61.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.23	92.4	0.0409	2.23
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1583	1.000	26.54	1.026	111	111	0.0682	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	168	168	0.243	



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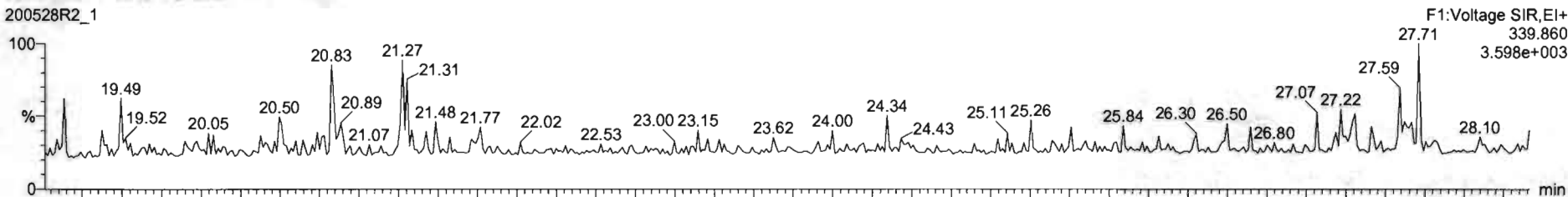
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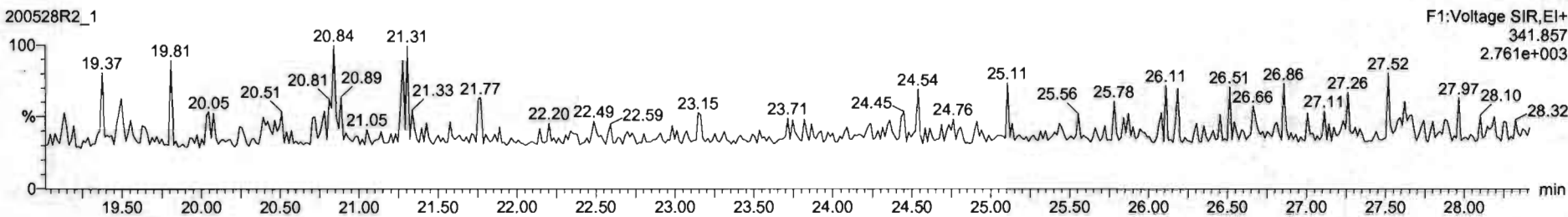
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200528R2_1

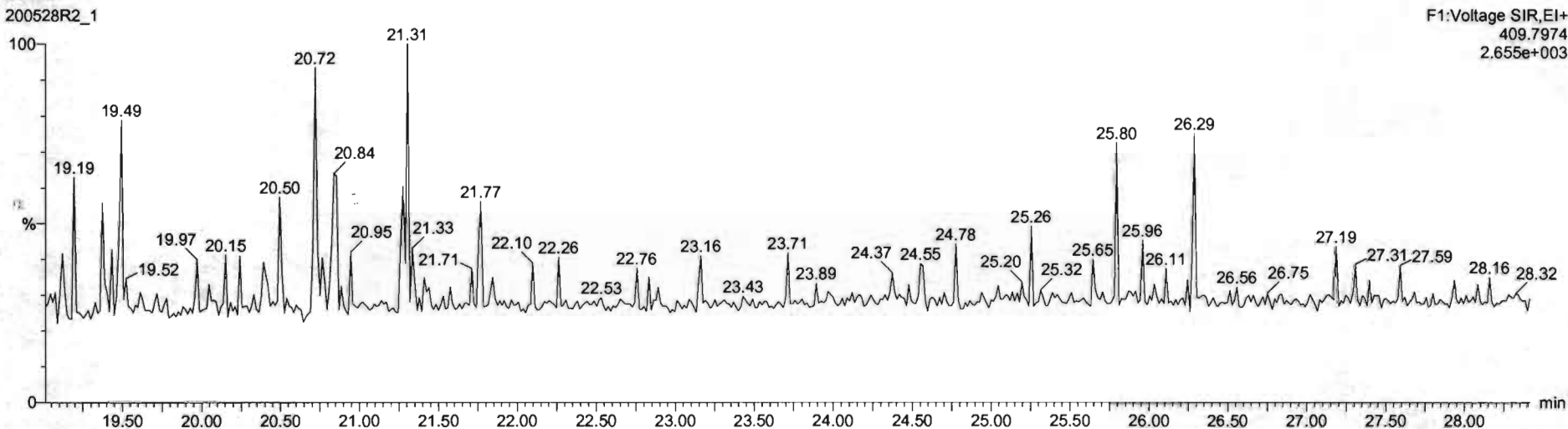


200528R2_1



DPE6

200528R2_1



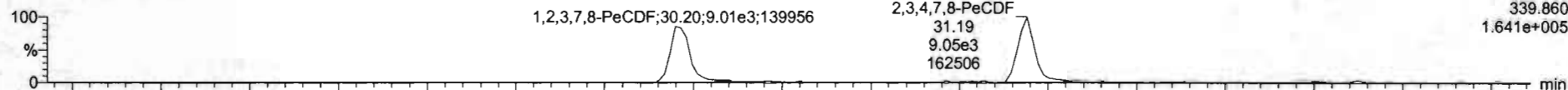
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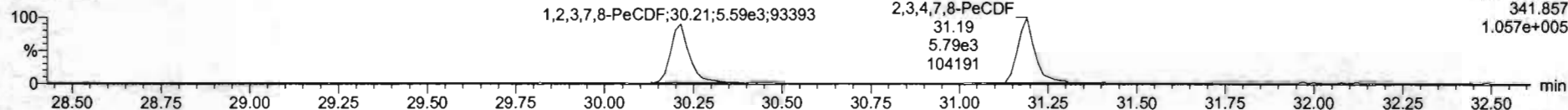
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1,2,3,7,8-PeCDF

200528R2_1

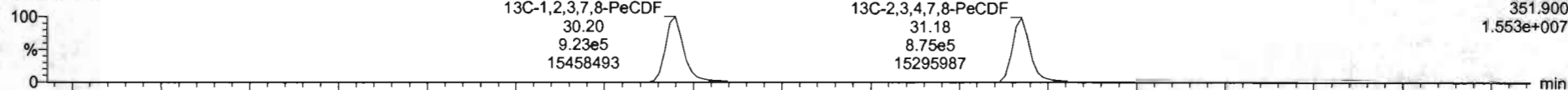


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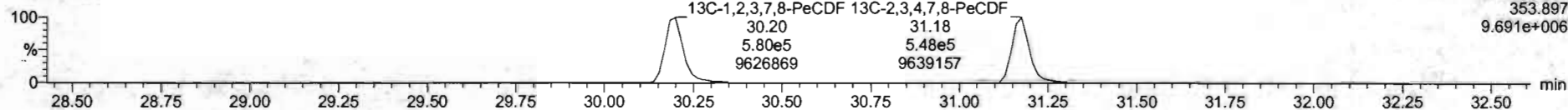


13C-1,2,3,7,8-PeCDF

200528R2_1

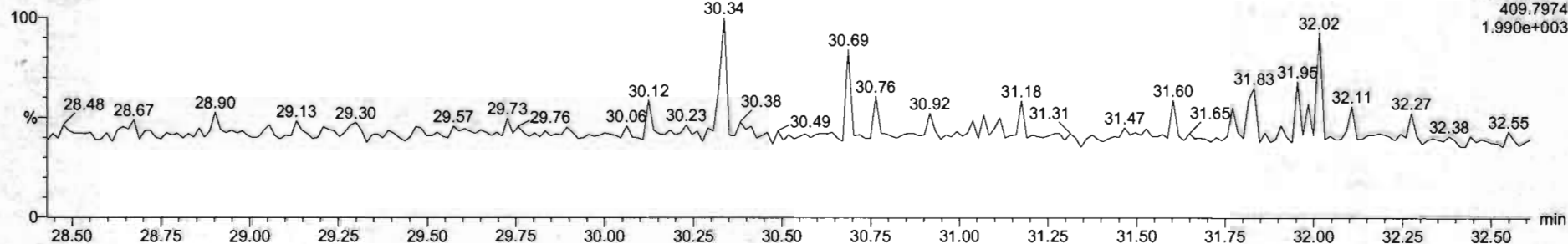


200528R2_1



DPE2

200528R2_1



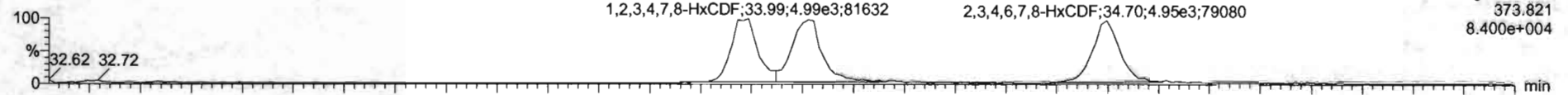
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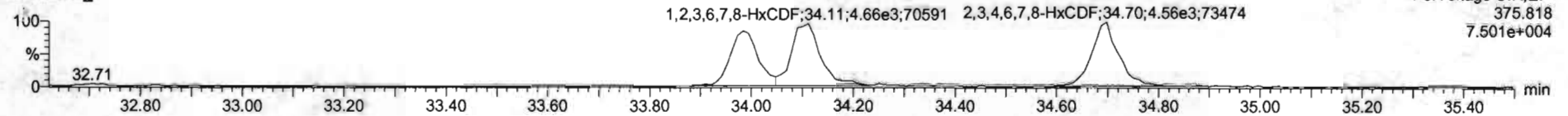
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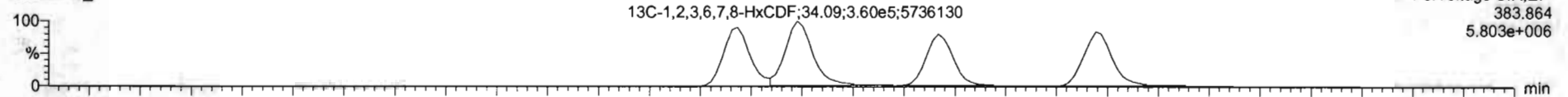


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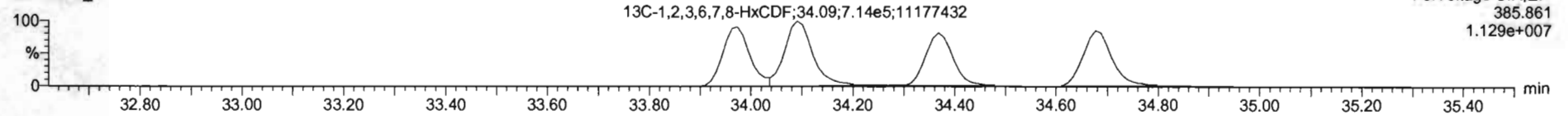


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200528R2_1

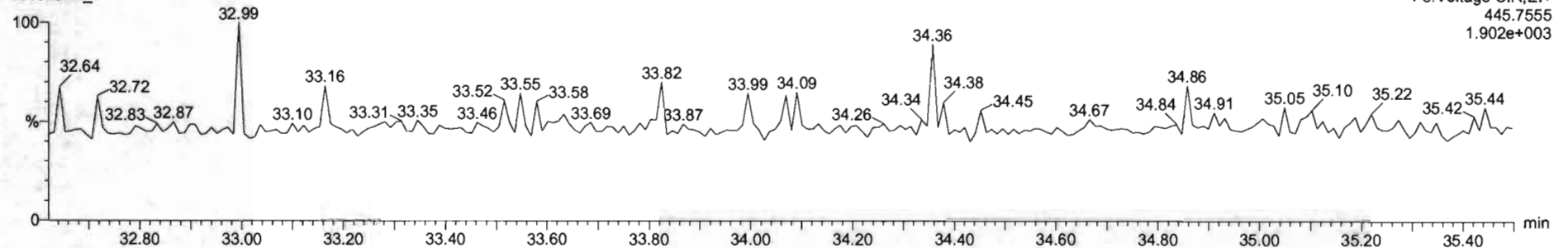


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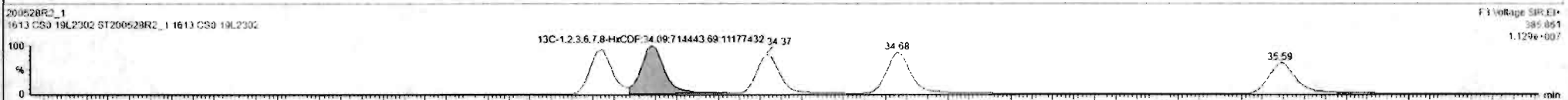
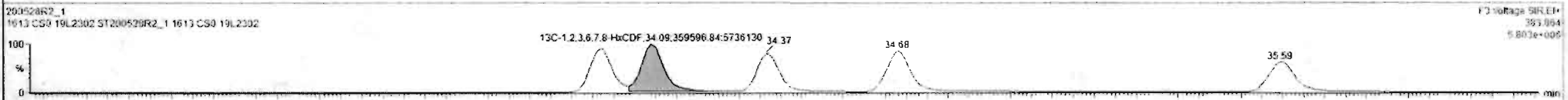
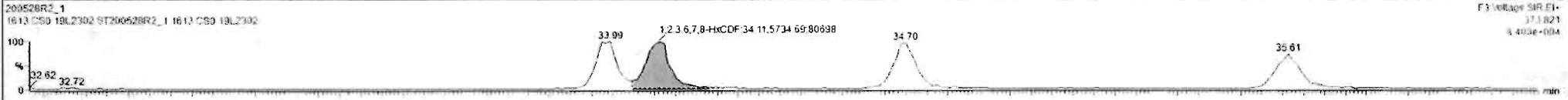


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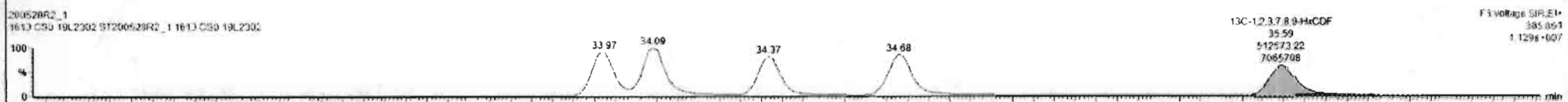
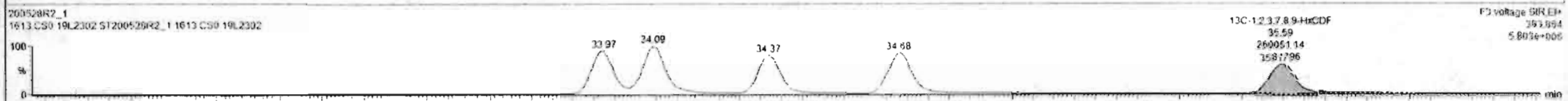
200528R2_1



Name	Resp	RA	inj	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.70e3	0.58	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6051	1.000	31.50	1.000	1.12	90.0	0.0292	1.12
3 1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0324	1.000	24.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDD	5.14e3	1.20	NO	0.8265	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	38.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9126	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	26.67	1.001	0.223	89.1	0.0147	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.81	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0709	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.56e3	1.25	NO	0.8845	1.000	33.99	1.001	1.05	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8082	1.000	34.11	1.001	1.12	89.3	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0128	1.000	39.33	1.001	1.62	81.8	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8085	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.8450	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e6	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21 13C-1,2,3,6,7,8-HxCDD	9.27e6	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.76e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	95.2	0.0247	0.213
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9081	1.000	31.55	1.000	1.12	96.0	0.0292	1.12
3	1,2,3,4,7,8-HxCDD	8.03e3	1.27	NO	1.0334	1.000	24.96	1.000	1.12	89.4	0.0426	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	24.97	1.001	1.12	89.7	0.0405	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8265	1.000	25.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.16e3	0.99	NO	0.8630	1.000	26.72	1.000	1.09	87.2	0.0566	1.09
7	OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.67	1.001	0.225	89.1	0.0142	0.225
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8325	1.000	20.20	1.000	1.09	87.1	0.0265	1.09
10	1,2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8,9-HxCDF	6.98e3	1.25	NO	0.8545	1.000	23.95	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8252	1.000	24.11	1.001	1.12	89.3	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	24.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.46e3	1.19	NO	0.8707	1.000	25.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	27.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	20.33	1.001	1.02	81.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0832	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.318	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	24.95	1.017	108	108	0.243	



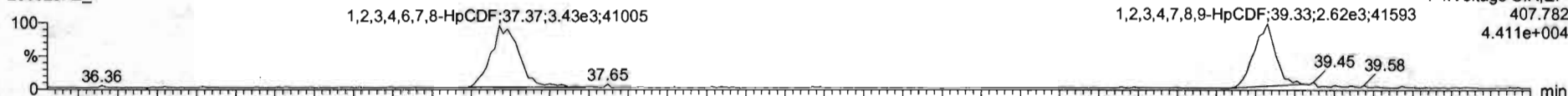
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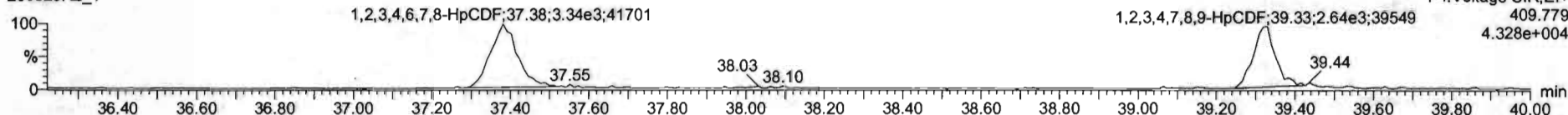
1,2,3,4,6,7,8-HpCDF

200528R2_1



F4:Voltage SIR,EI+
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4.411e+004

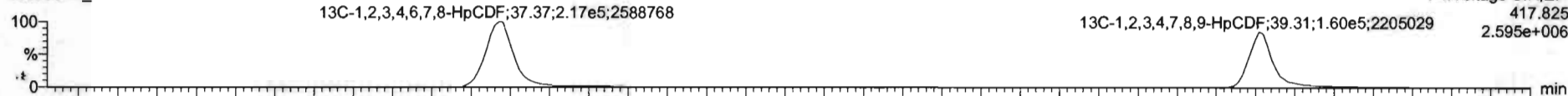
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4.328e+004

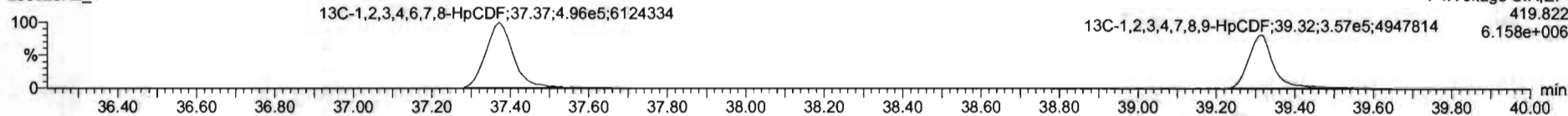
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2.595e+006

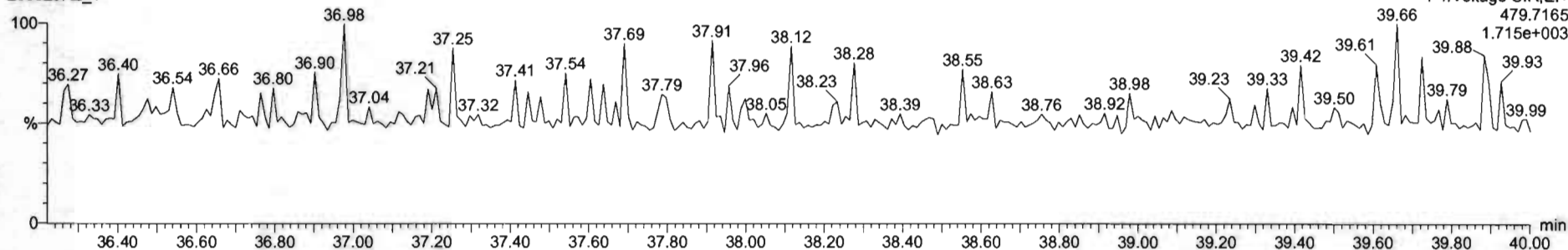
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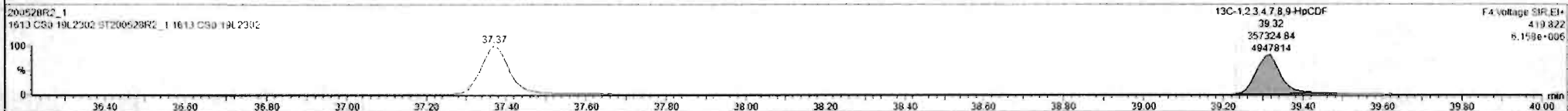
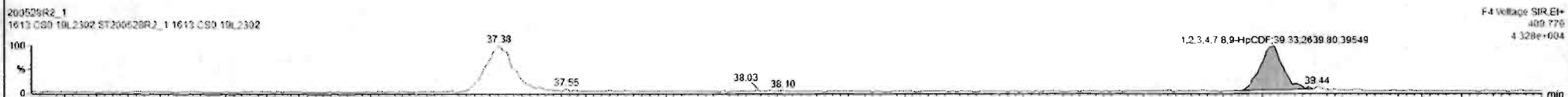
F4:Voltage SIR,EI+
419.822
6.158e+006

CPE4

200528R2_1



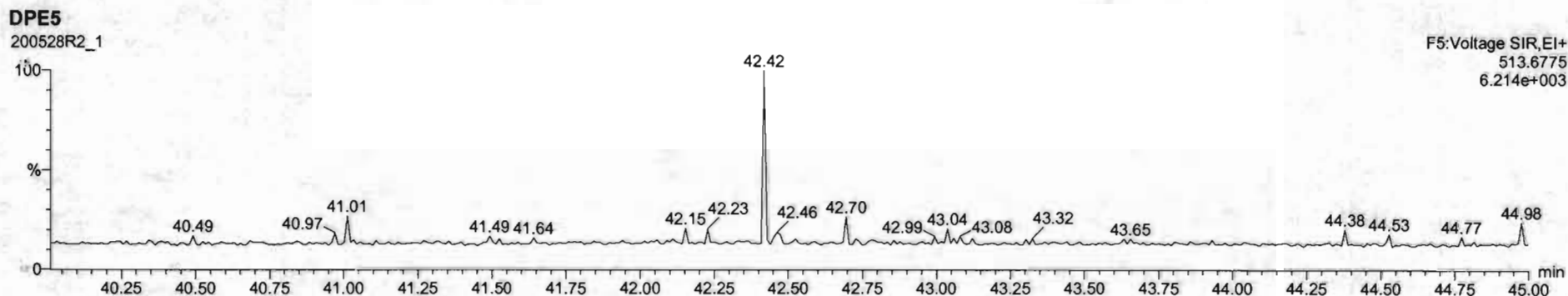
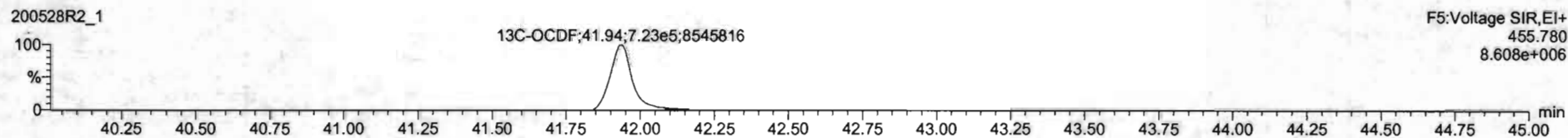
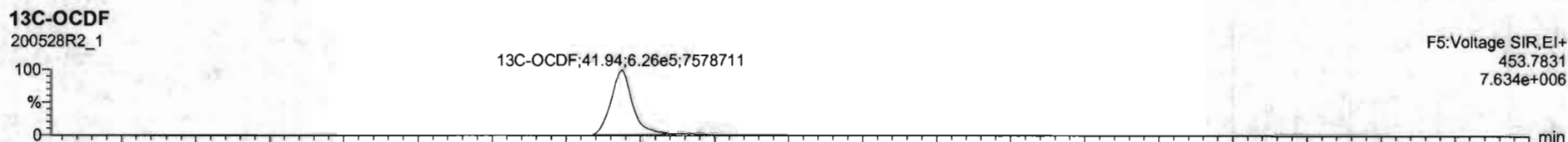
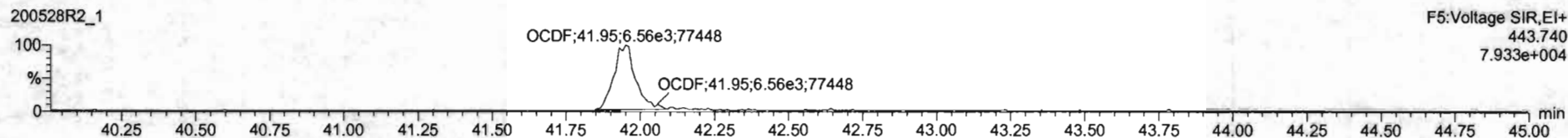
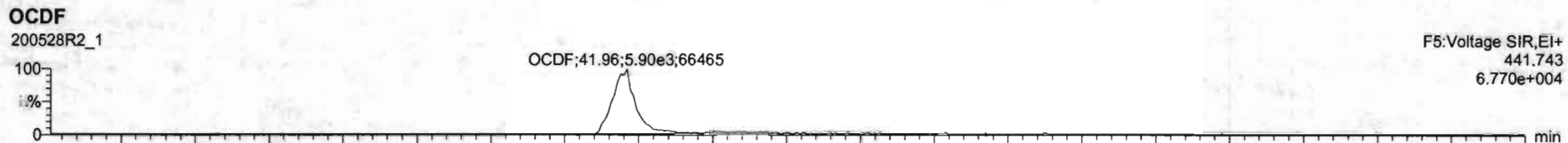
Name	Resp	RA	nBy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.79e3	0.68	NO	0.8883	1.000	26.54	1.000	0.213	85.2	0.0247	0.213
2 1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.6081	1.000	31.50	1.000	1.12	90.0	0.0292	1.13
3 1,2,3,4,7,8-HxCDD	8.02e3	1.27	NO	1.0334	1.000	34.86	1.000	1.12	89.4	0.0426	1.12
4 1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8923	1.000	34.97	1.001	1.12	89.7	0.0405	1.12
5 1,2,3,7,8,9-HxCDF	8.14e3	1.20	NO	0.8269	1.000	35.25	1.000	1.10	88.1	0.0404	1.10
6 1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.0566	1.09
7 OCDD	1.23e4	0.85	NO	0.9136	1.000	41.76	1.000	2.27	90.0	0.0470	2.27
8 2,3,7,8-TCDF	3.27e3	0.73	NO	0.7510	1.000	25.87	1.001	0.223	89.1	0.0142	0.223
9 1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10 2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9346	1.000	31.19	1.000	1.12	89.2	0.0260	1.12
11 1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12 1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8852	1.000	34.11	1.001	1.12	89.0	0.0334	1.12
13 2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14 1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8797	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15 1,2,3,4,6,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	88.9	0.0524	1.09
16 1,2,3,4,7,8,9-HpCDF	5.26e3	0.99	NO	1.0126	1.000	39.35	1.001	1.02	81.6	0.0523	1.02
17 OCDF	1.27e4	0.87	NO	0.8065	1.000	41.96	1.000	2.33	92.4	0.0409	2.33
18 13C-2,3,7,8-TCDD	1.42e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0682	
19 13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20 13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	34.85	1.014	106	106	0.218	
21 13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



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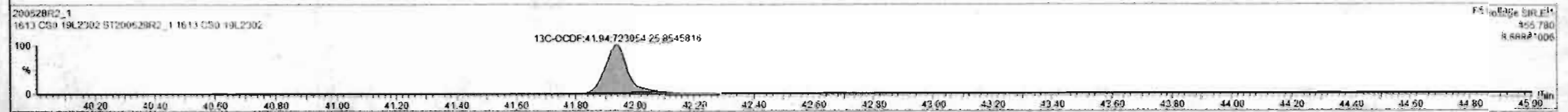
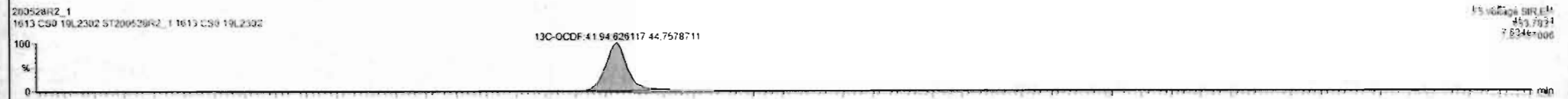
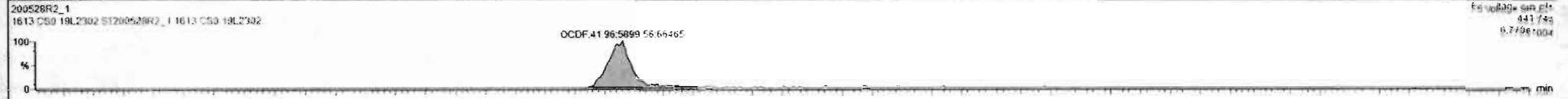
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Name: 200528R2_1, Date: 28-May-2020, Time: 11:53:52, ID: ST200528R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



200528R2_1 1613 CS0 19L2302-1613 CS0 19L2302

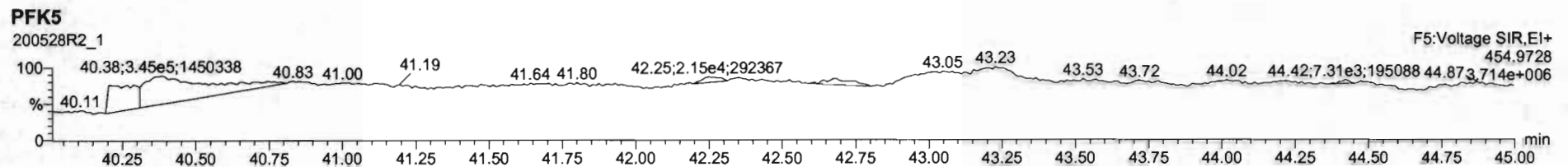
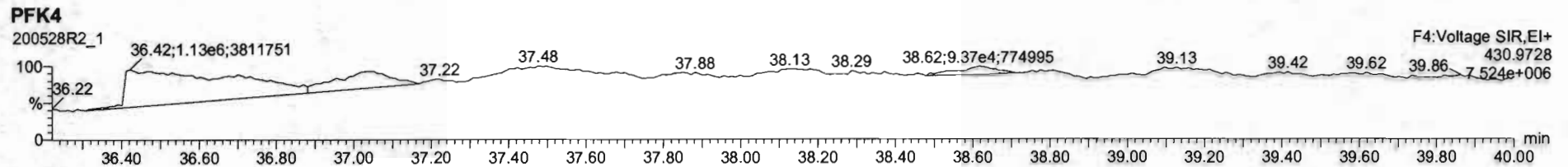
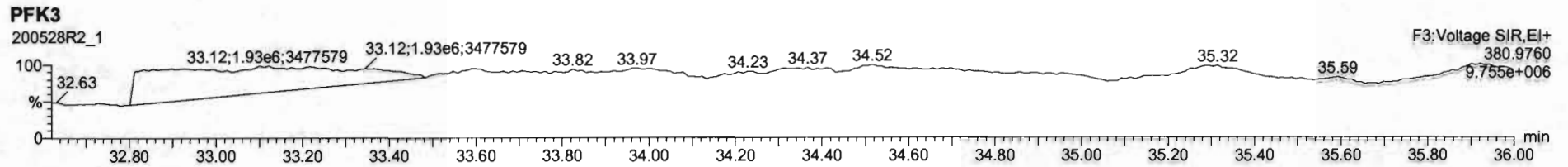
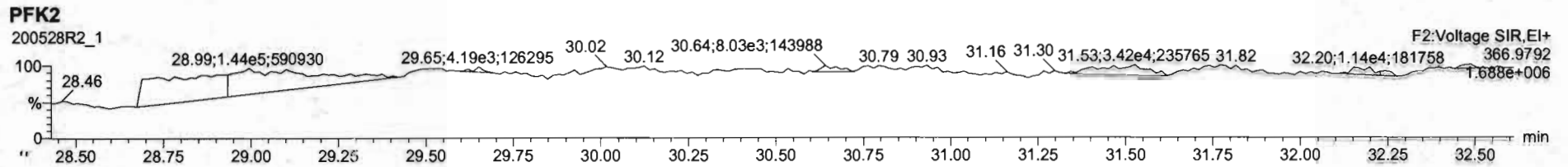
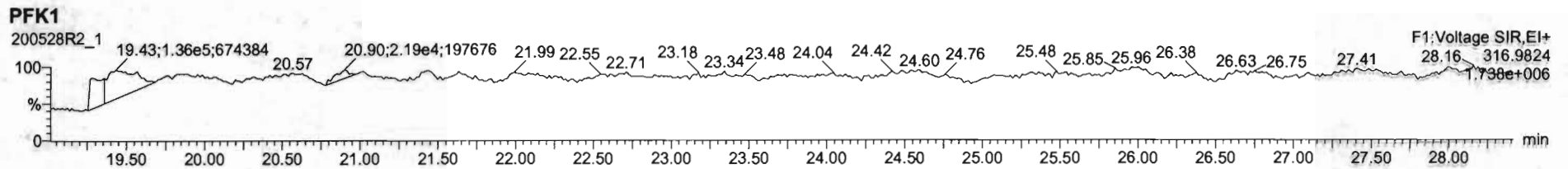
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1	2,3,7,8-TCDD	2.70e3	0.98	NO	0.8803	1.000	26.54	1.000	0.212	85.7	0.0247	0.212
2	1,2,3,7,8-PeCDD	1.03e4	0.66	NO	0.9041	1.000	31.60	1.000	1.12	90.0	0.0202	1.12
3	1,2,3,4,7,8-HxCDD	0.03e3	1.27	NO	1.0324	1.000	34.86	1.000	1.12	89.4	0.042E	1.12
4	1,2,3,6,7,8-HxCDD	9.27e3	1.23	NO	0.8523	1.000	34.97	1.001	1.12	89.7	0.040E	1.12
5	1,2,3,7,8,9-HxCDD	8.14e3	1.20	NO	0.8205	1.000	35.25	1.000	1.10	88.1	0.0464	1.10
6	1,2,3,4,6,7,8-HpCDD	6.10e3	0.99	NO	0.8639	1.000	36.78	1.000	1.09	87.2	0.056E	1.09
7	OCDD	1.23e4	0.88	NO	0.9136	1.000	41.76	1.000	2.27	90.9	0.0470	2.27
8	2,3,7,8-TCDF	3.27e3	0.75	NO	0.7510	1.000	25.67	1.001	0.223	89.1	0.0142	0.223
9	1,2,3,7,8-PeCDF	1.46e4	1.61	NO	0.8925	1.000	30.20	1.000	1.09	87.1	0.0269	1.09
10	2,3,4,7,8-PeCDF	1.48e4	1.56	NO	0.9348	1.000	21.19	1.000	1.12	89.2	0.0260	1.12
11	1,2,3,4,7,8-HxCDF	6.98e3	1.25	NO	0.8845	1.000	33.99	1.001	1.08	86.2	0.0369	1.08
12	1,2,3,6,7,8-HxCDF	1.07e4	1.16	NO	0.8892	1.000	24.11	1.001	1.12	89.7	0.0334	1.12
13	2,3,4,6,7,8-HxCDF	9.51e3	1.09	NO	0.9341	1.000	34.70	1.001	1.10	88.3	0.0279	1.10
14	1,2,3,7,8,9-HxCDF	7.48e3	1.19	NO	0.8707	1.000	35.61	1.001	1.11	89.0	0.0549	1.11
15	1,2,3,4,5,7,8-HpCDF	6.77e3	1.03	NO	0.8734	1.000	37.37	1.000	1.09	86.9	0.0524	1.09
16	1,2,3,4,7,8,9-HpCDF	5.26e3	0.95	NO	1.0126	1.000	39.33	1.001	1.02	81.6	0.0523	1.02
17	OCDF	1.27e4	0.87	NO	0.8685	1.000	41.96	1.000	2.33	93.4	0.0409	2.33
18	13C-2,3,7,8-TCDD	1.43e6	0.80	NO	1.1563	1.000	26.54	1.026	111	111	0.0632	
19	13C-1,2,3,7,8-PeCDD	1.00e6	0.64	NO	0.8490	1.000	31.48	1.216	107	107	0.135	
20	13C-1,2,3,4,7,8-HxCDD	6.95e5	1.27	NO	0.7790	1.000	24.85	1.014	106	106	0.218	
21	13C-1,2,3,6,7,8-HxCDD	9.27e5	1.27	NO	1.0167	1.000	34.95	1.017	108	108	0.243	



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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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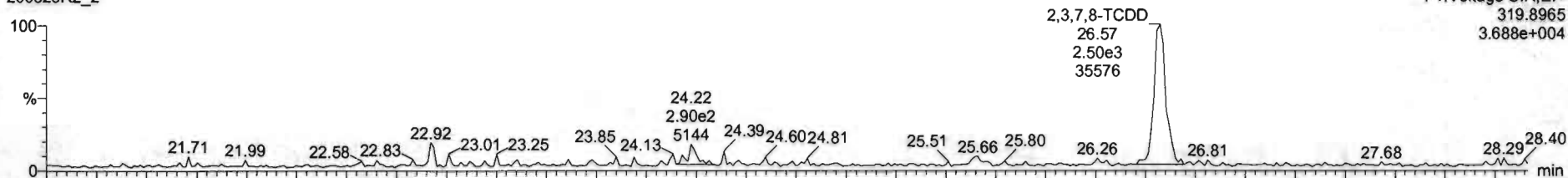
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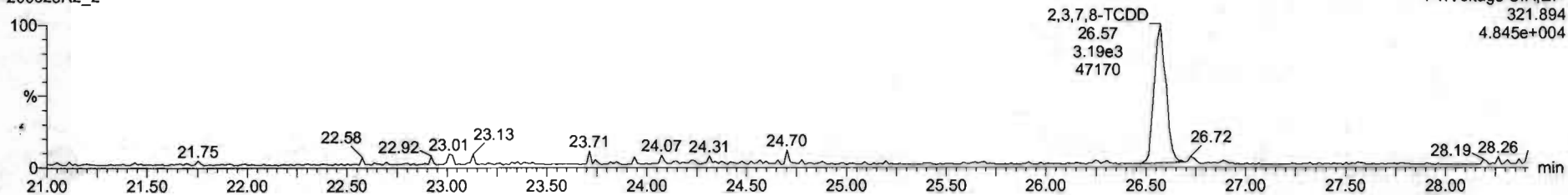
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2,3,7,8-TCDD

200528R2_2

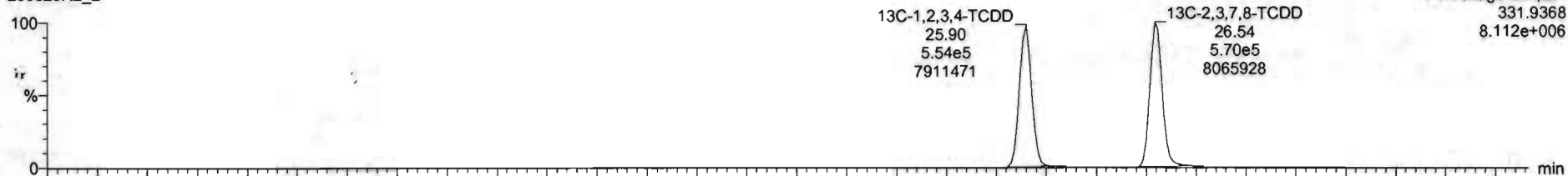


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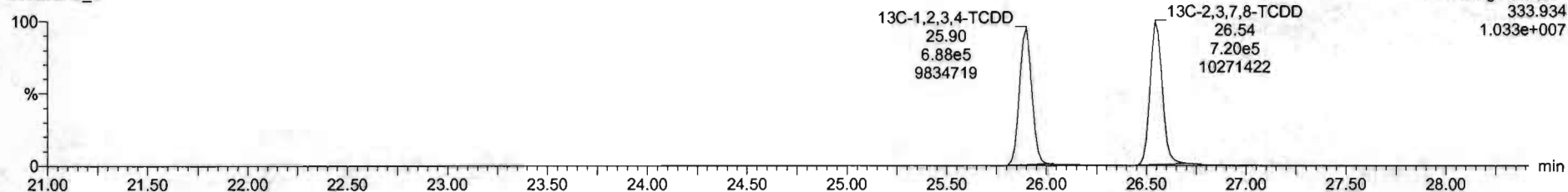


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200528R2_2



200528R2_2



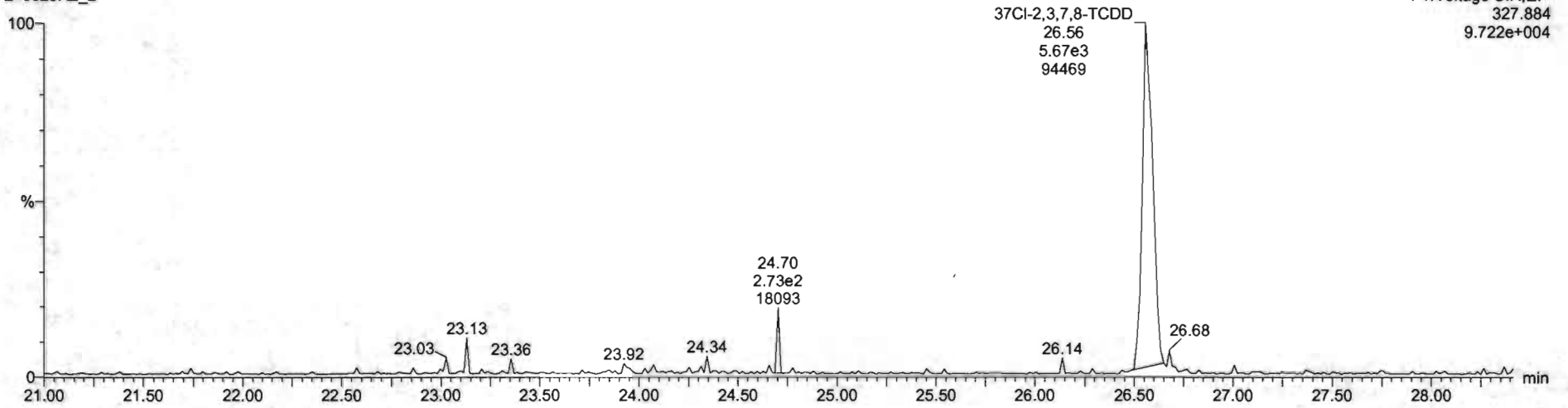
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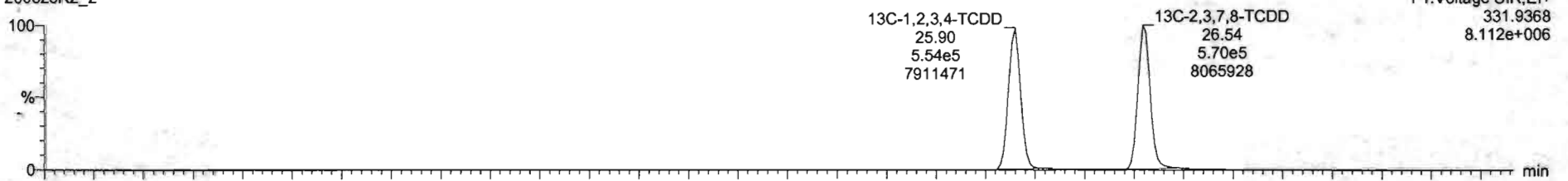
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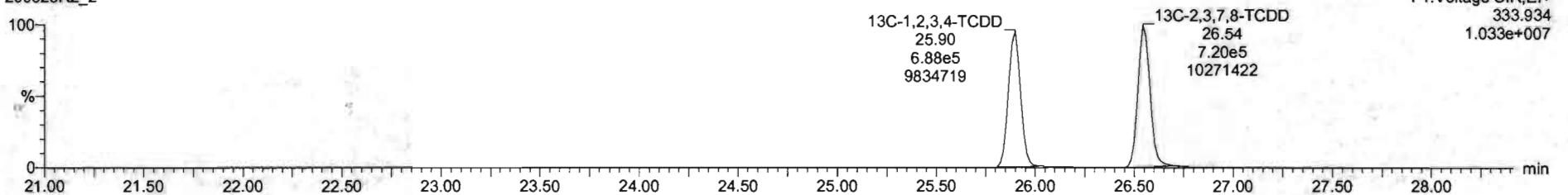


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200528R2_2



200528R2_2



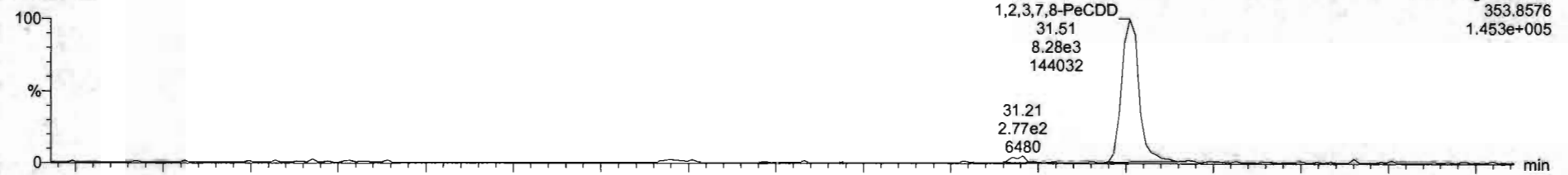
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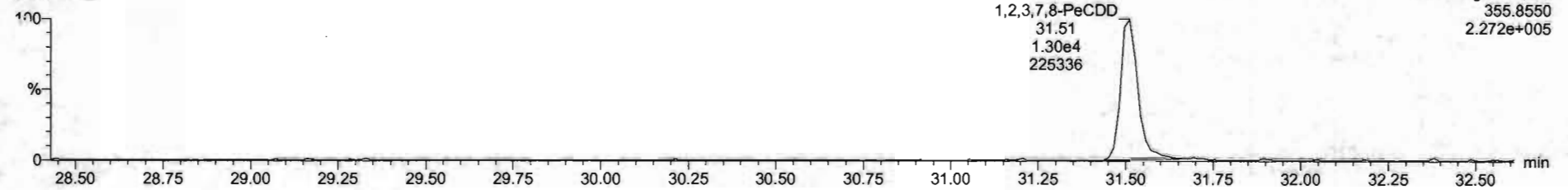
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1,2,3,7,8-PeCDD

200528R2_2

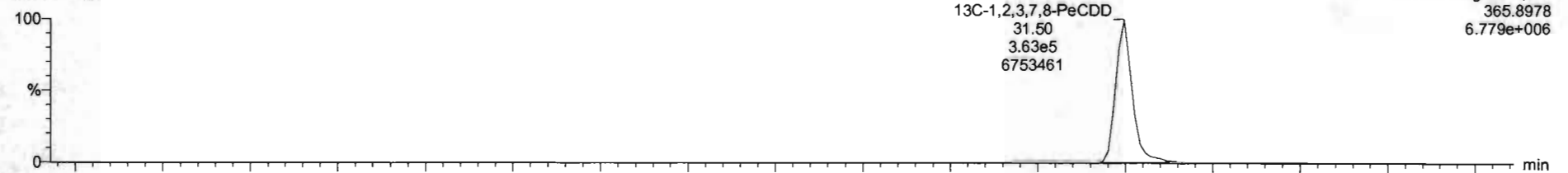


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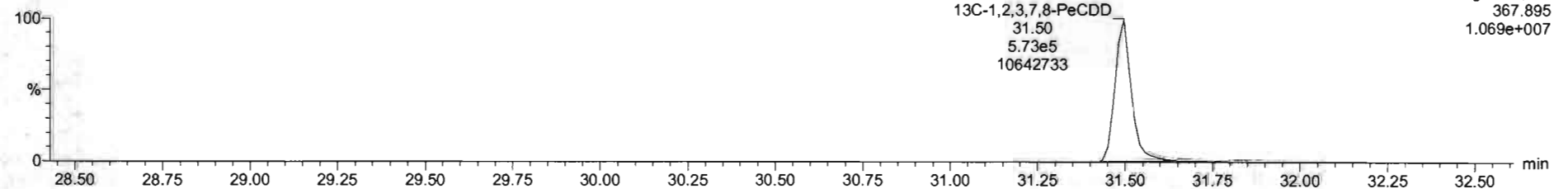


13C-1,2,3,7,8-PeCDD

200528R2_2



200528R2_2



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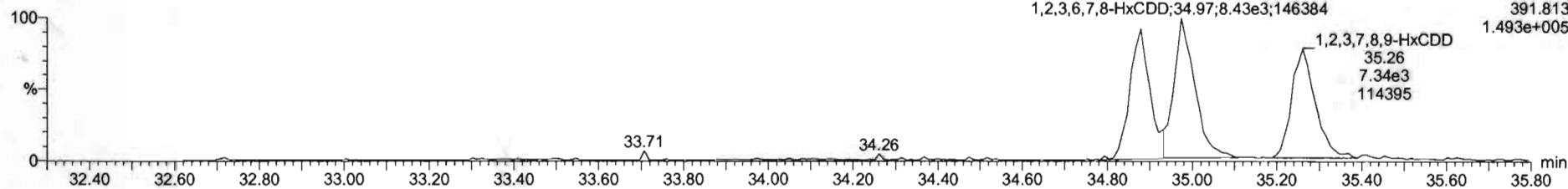
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200528R2_2

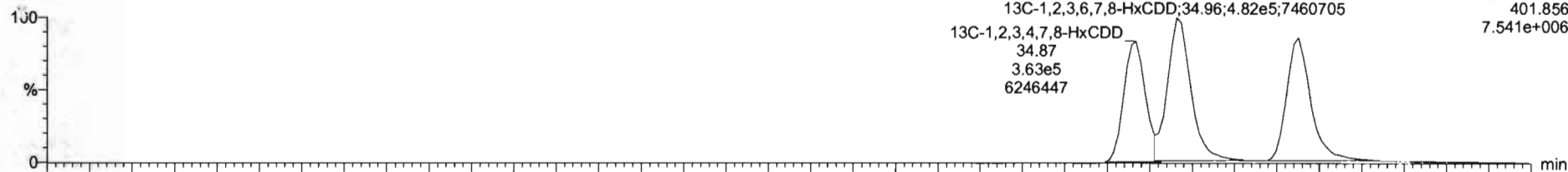


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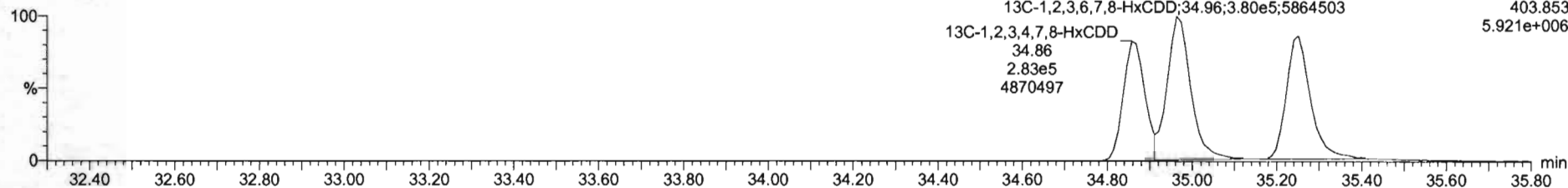


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200528R2_2



200528R2_2



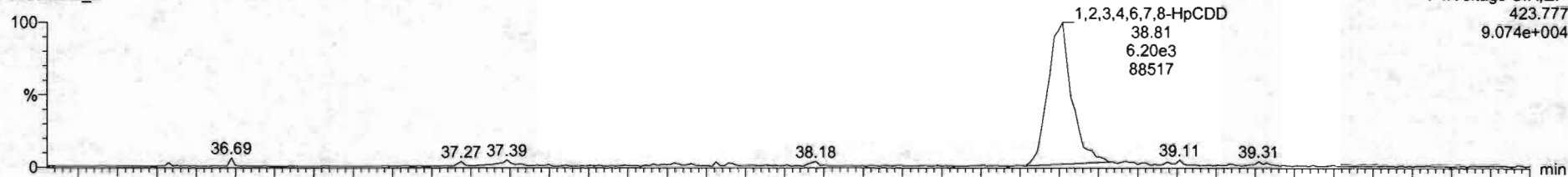
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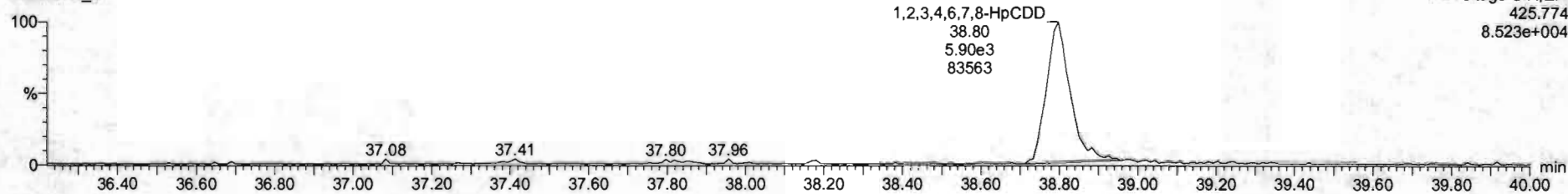
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1,2,3,4,6,7,8-HpCDD

200528R2_2

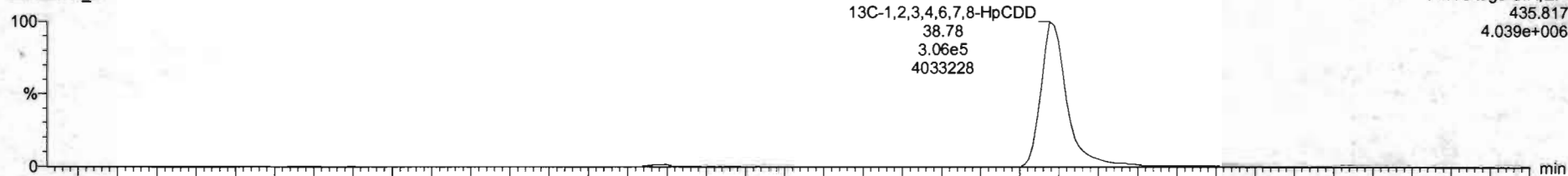


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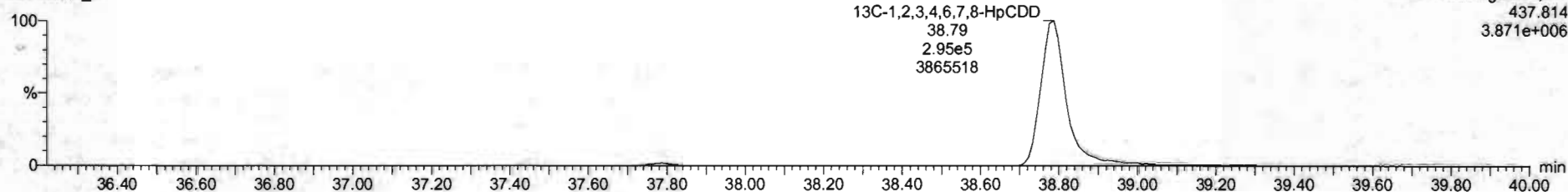


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200528R2_2



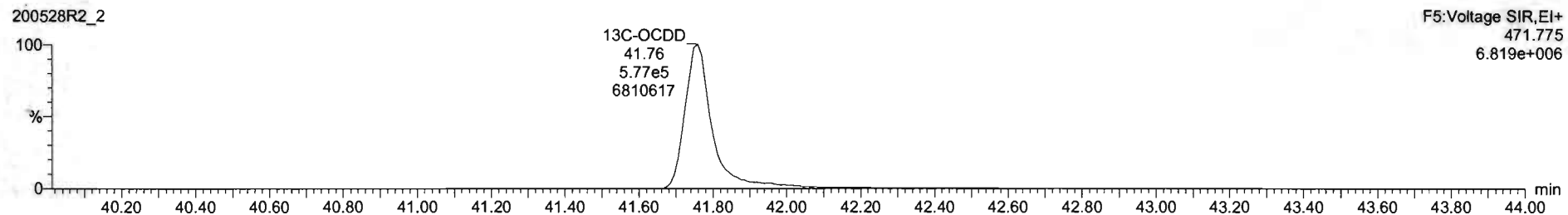
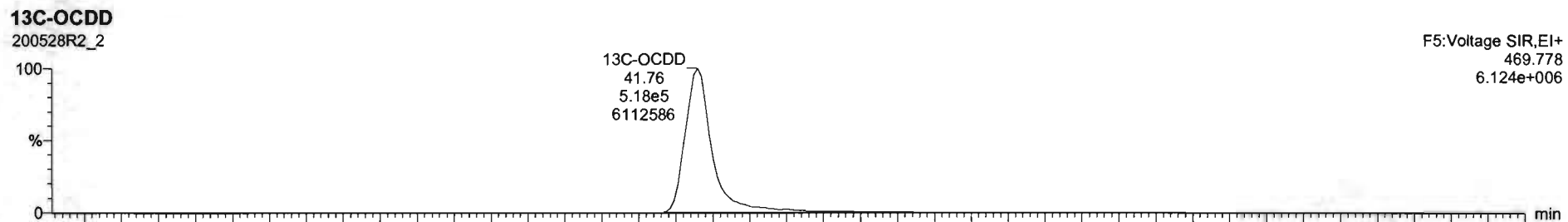
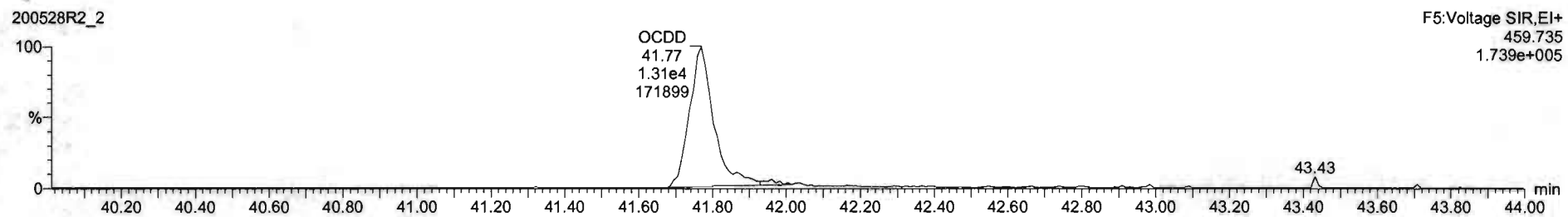
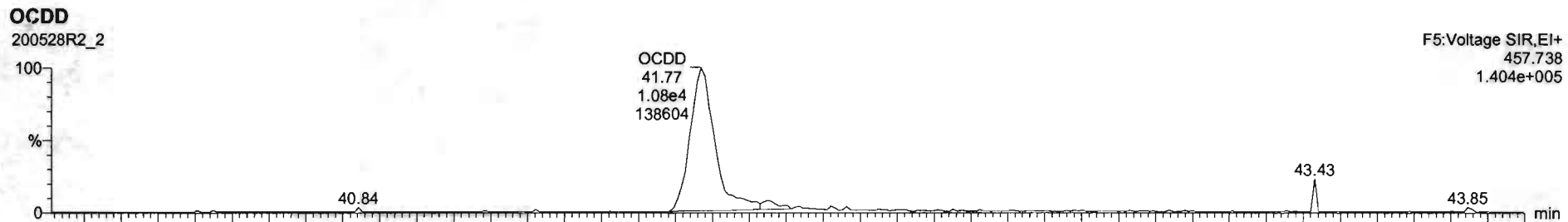
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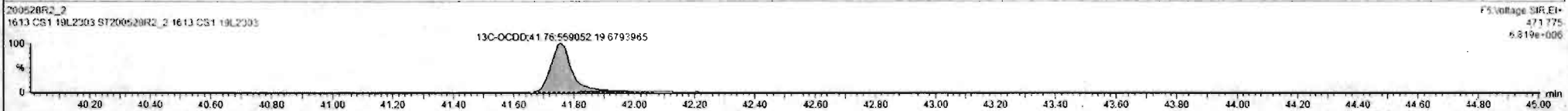
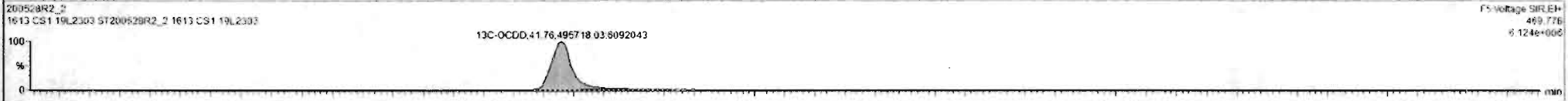
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Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0324	1.000	34.86	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.50e4	1.25	NO	0.8923	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8865	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.61	1.001	2.33	93.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	98.4	0.149	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.463	97.7	0.0670	0.468
9 1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9241	1.000	34.71	1.001	2.38	96.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.32	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8065	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1563	1.000	26.54	1.025	89.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.83	NO	0.8490	1.000	31.50	1.216	86.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7790	1.000	34.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.95	1.017	87.7	87.7	0.140	

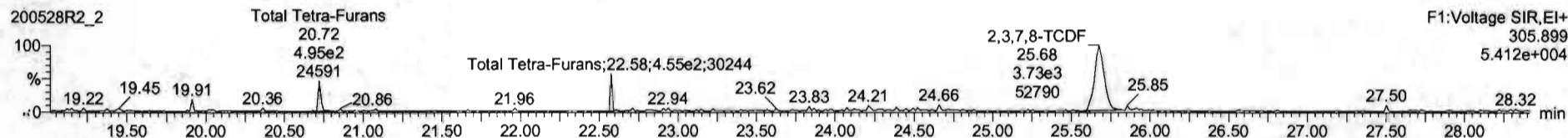
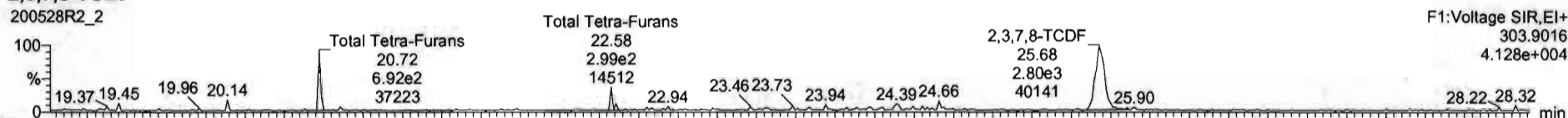


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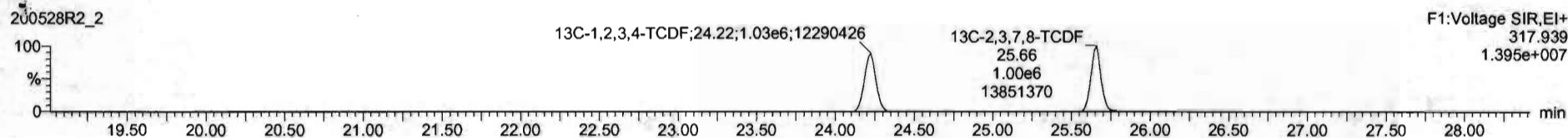
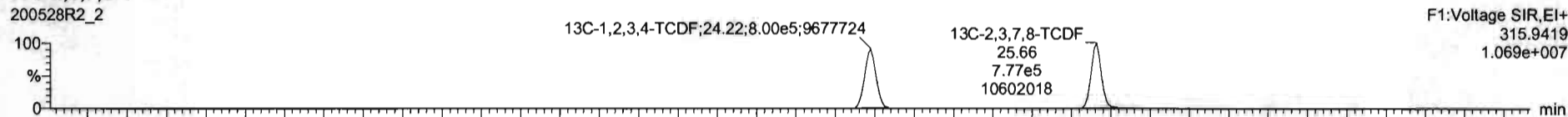
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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

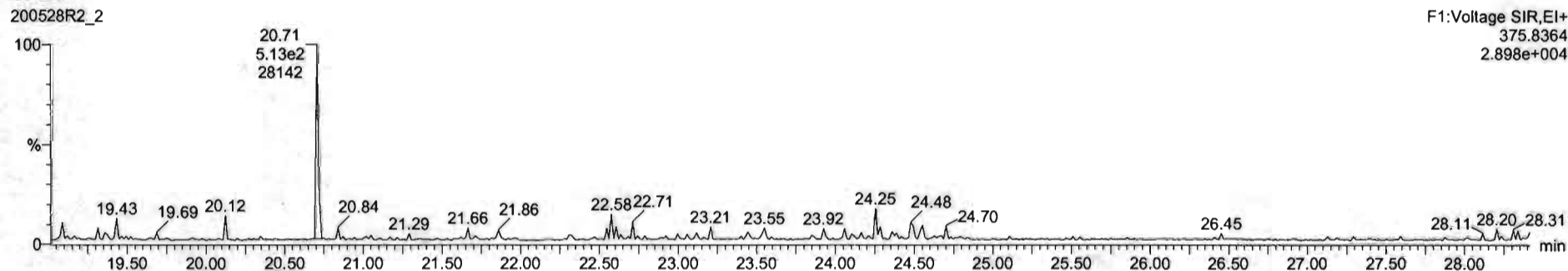
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

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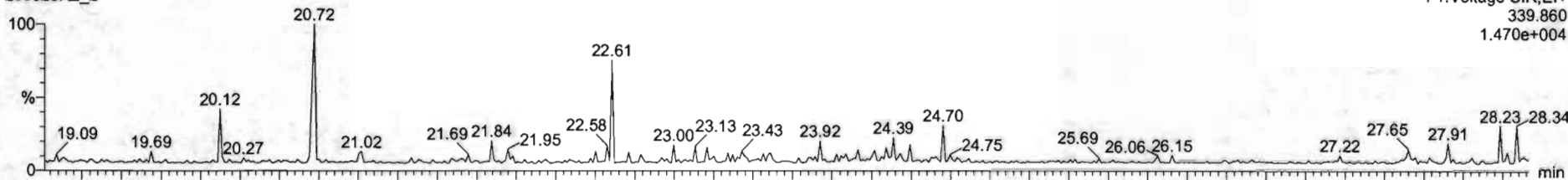
Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans

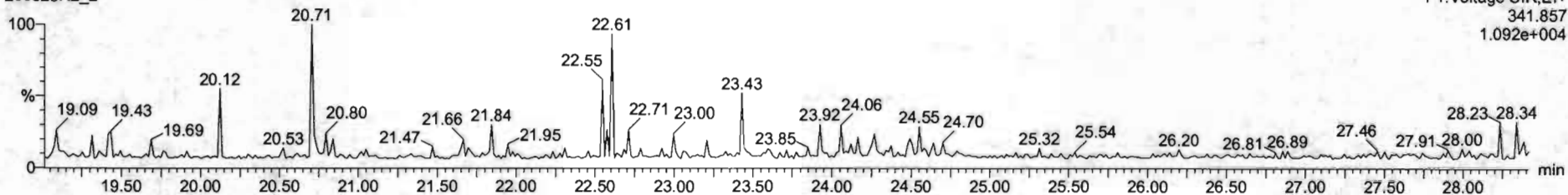
200528R2_2

F1:Voltage SIR,EI+
339.860
1.470e+004



200528R2_2

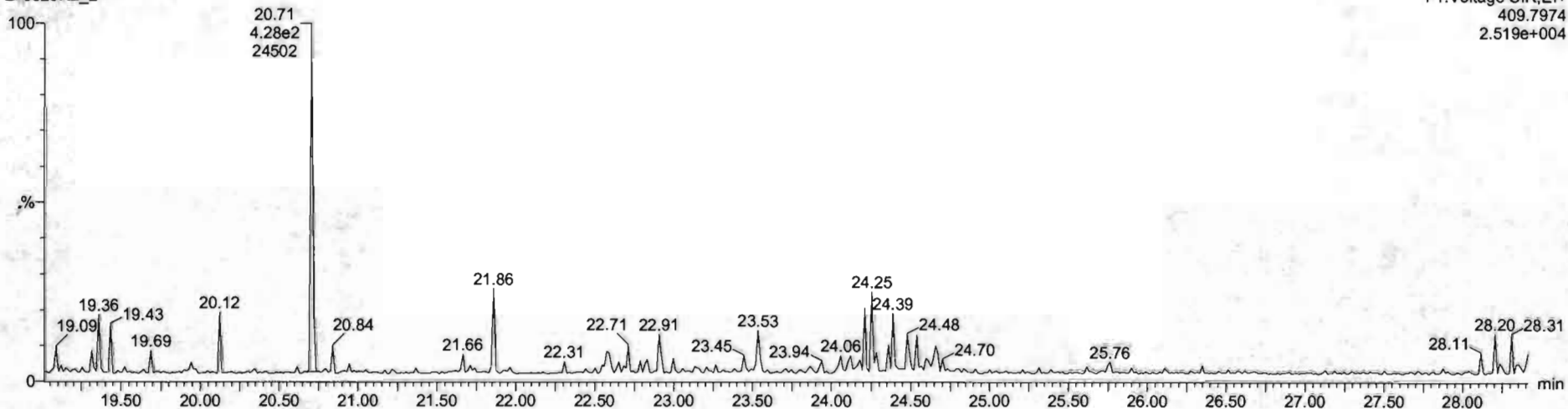
F1:Voltage SIR,EI+
341.857
1.092e+004



DPE6

200528R2_2

F1:Voltage SIR,EI+
409.7974
2.519e+004



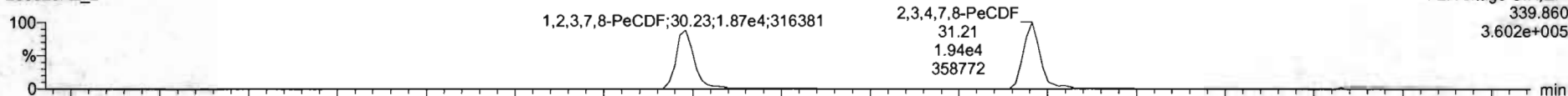
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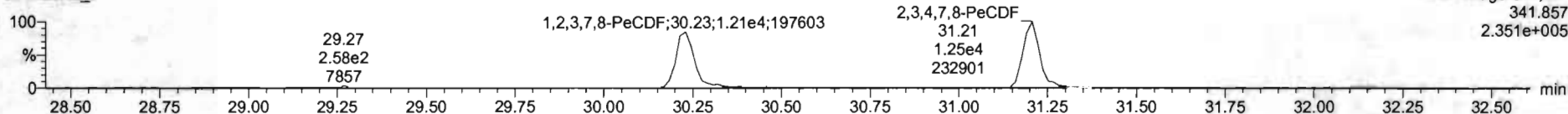
1,2,3,7,8-PeCDF

200528R2_2



F2:Voltage SIR,EI+
339.860
3.602e+005

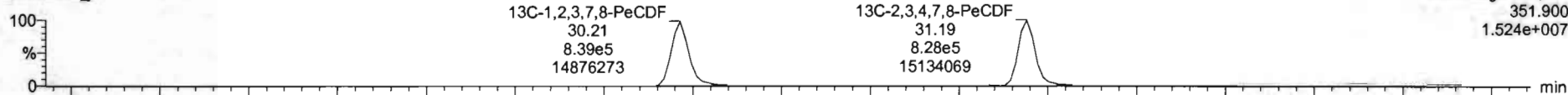
200528R2_2



F2:Voltage SIR,EI+
341.857
2.351e+005

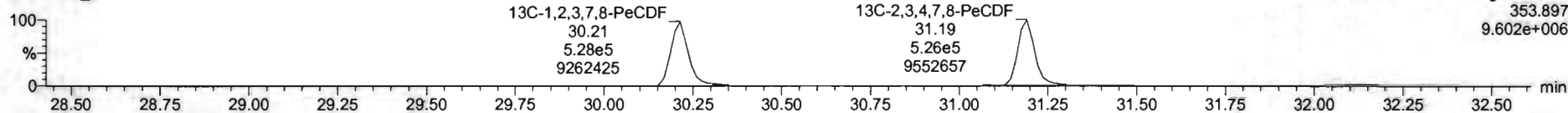
13C-1,2,3,7,8-PeCDF

200528R2_2



F2:Voltage SIR,EI+
351.900
1.524e+007

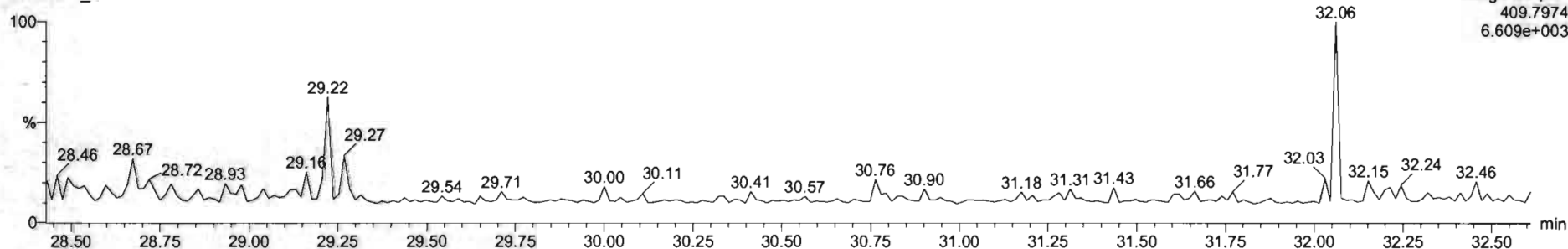
200528R2_2



F2:Voltage SIR,EI+
353.897
9.602e+006

DPE2

200528R2_2



F2:Voltage SIR,EI+
409.7974
6.609e+003

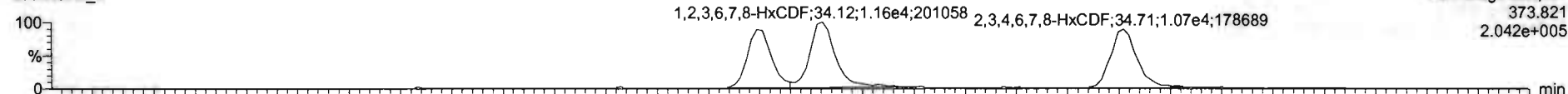
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Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

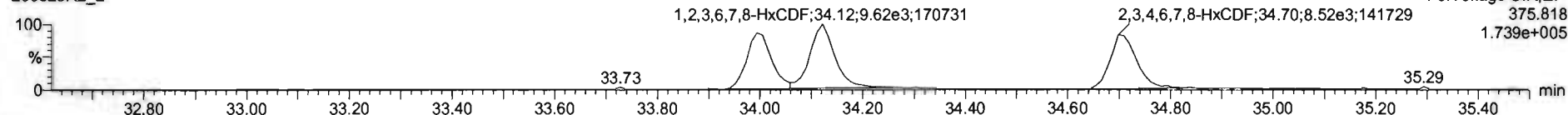
1,2,3,4,7,8-HxCDF

200528R2_2



F3: Voltage SIR, EI+
373.821
2.042e+005

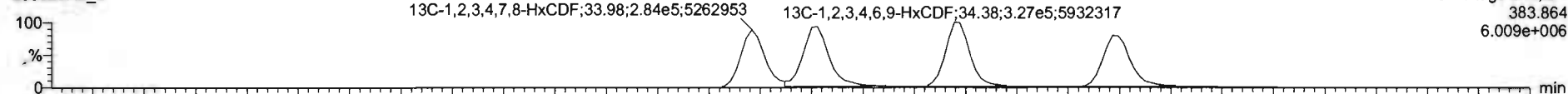
200528R2_2



F3: Voltage SIR, EI+
375.818
1.739e+005

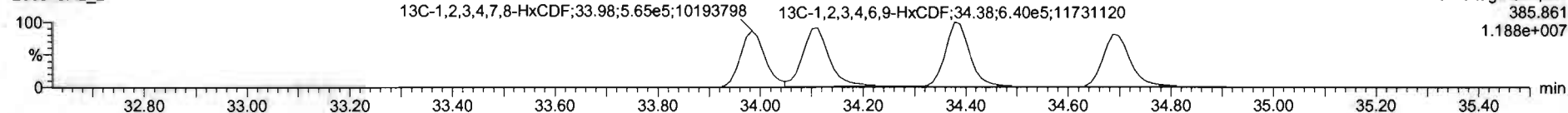
13C-1,2,3,4,7,8-HxCDF

200528R2_2



F3: Voltage SIR, EI+
383.864
6.009e+006

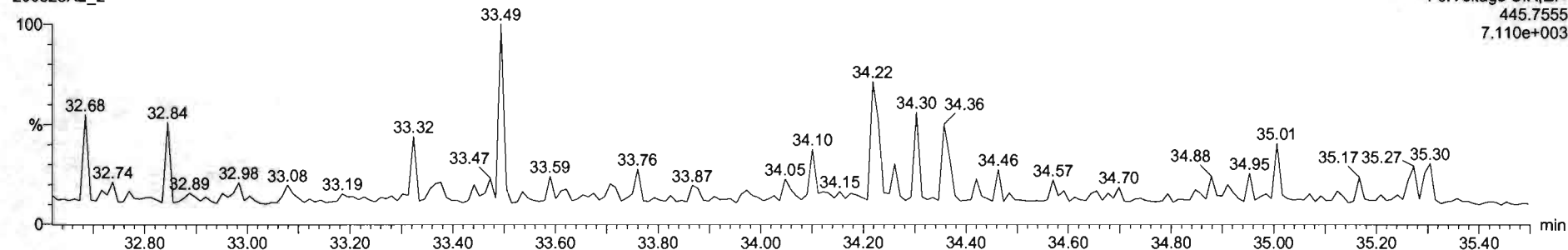
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F3: Voltage SIR, EI+
385.861
1.188e+007

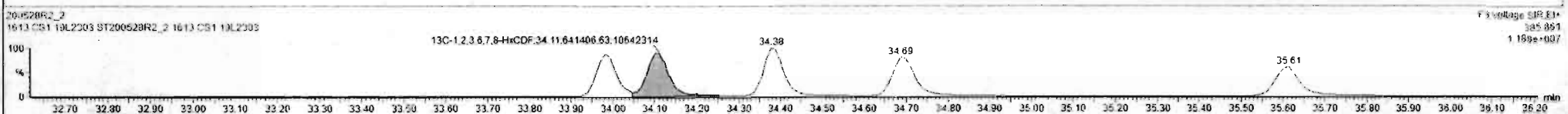
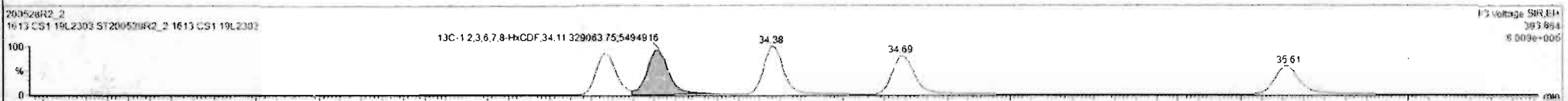
DPE3

200528R2_2

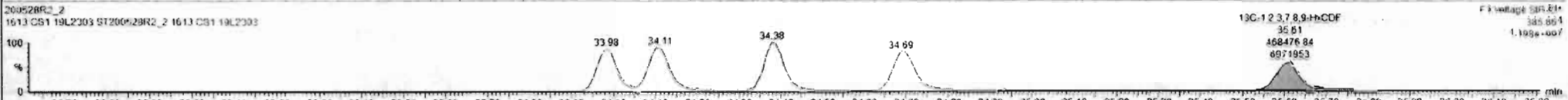
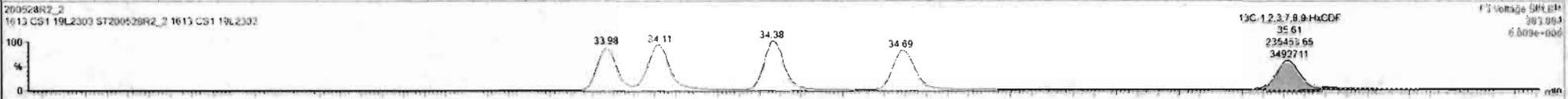


F3: Voltage SIR, EI+
445.7555
7.110e+003

#	Name	Resp	RA	nby	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.69e3	0.76	NO	0.8963	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9051	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.69e4	1.27	NO	1.0334	1.000	34.86	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8979	1.000	34.99	1.001	2.47	98.5	0.0747	3.47
5	1,2,3,7,9-HxCDD	1.62e4	1.21	NO	0.8269	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8639	1.000	36.51	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9126	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.08e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9340	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8545	1.000	33.99	1.000	2.41	96.3	0.0665	3.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.6552	1.000	34.12	1.000	2.50	100	0.0542	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.38	95.3	0.0702	2.38
14	1,2,3,7,8,9-HxCDF	1.46e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	1,2,3,7,8-TCDF	1.79e6	0.79	NO	1.1563	1.000	26.54	1.025	89.8	89.8	0.0928	
19	1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	68.7	68.7	0.113	
20	1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



#	Name	Resp	RA	ntf	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.99e3	0.76	NO	0.8843	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2	1,2,3,7,8-PeCDD	2.12e4	0.84	NO	0.9051	1.000	31.51	1.000	2.50	99.3	0.0401	2.50
3	1,2,3,4,7,8-HxCDD	1.05e4	1.27	NO	1.0334	1.000	34.85	1.000	2.53	101	0.0774	2.53
4	1,2,3,6,7,8-HxCDD	1.90e4	1.25	NO	0.8973	1.000	34.99	1.001	2.47	98.5	0.0747	2.47
5	1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8565	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6	1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	93.3	0.0618	2.33
7	OCDD	2.39e4	0.83	NO	0.9126	1.000	41.77	1.000	4.97	99.4	0.149	4.97
8	2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.468	97.7	0.0620	0.468
9	1,2,3,7,8-PeCDF	3.05e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10	2,3,4,7,8-PeCDF	0.15e4	1.55	NO	0.9346	1.000	31.21	1.000	2.52	101	0.0395	2.52
11	1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12	1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8882	1.000	34.12	1.000	2.50	100	0.0642	2.50
13	2,3,4,6,7,8-HxCDF	1.93e4	1.26	NO	0.9341	1.000	34.71	1.001	2.36	96.3	0.0702	2.36
14	1,2,3,7,8,9-HxCDF	1.48e4	1.12	NO	0.8787	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15	1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16	1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0128	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17	OCDF	2.40e4	0.84	NO	0.8565	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18	13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.1562	1.000	26.54	1.025	89.8	89.8	0.0528	
19	13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20	13C-1,2,3,4,7,8-HxCDD	6.46e5	1.28	NO	0.7750	1.000	34.87	1.014	85.9	85.9	0.183	
21	13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0157	1.000	34.96	1.017	87.7	87.7	0.140	



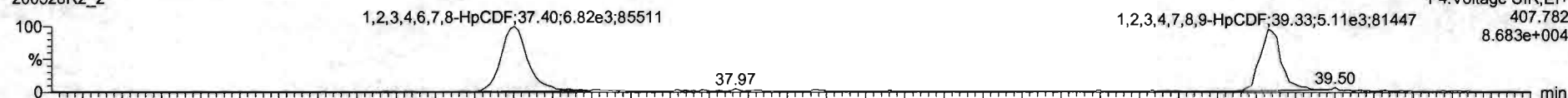
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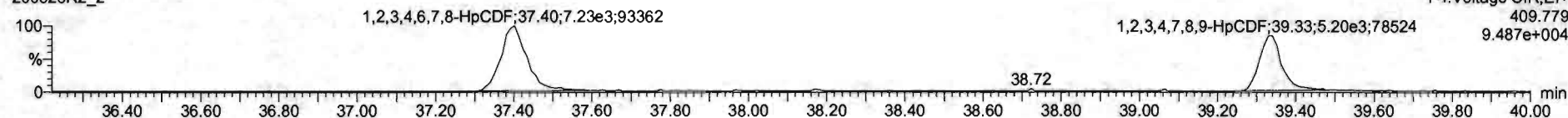
Name: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200528R2_2



200528R2_2

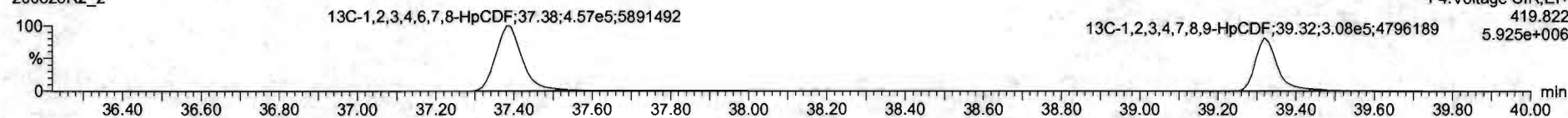


13C-1,2,3,4,6,7,8-HpCDF

200528R2_2

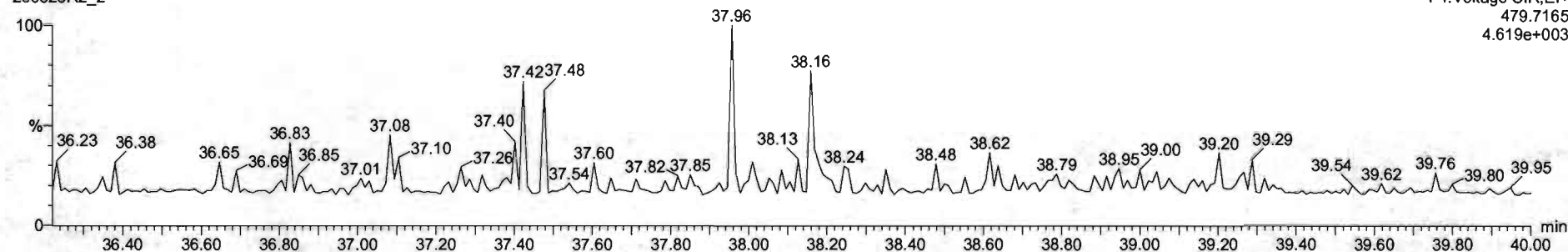


200528R2_2



DPE4

200528R2_2



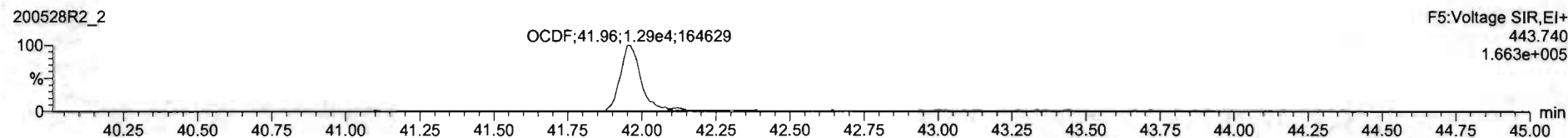
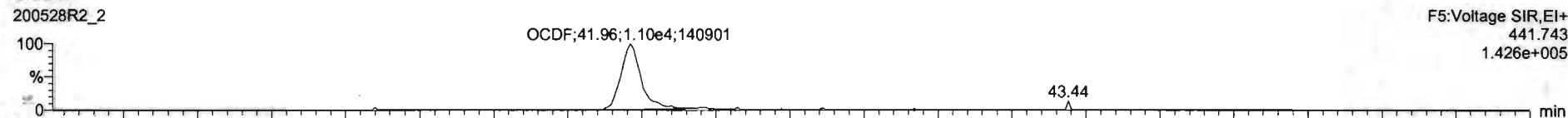
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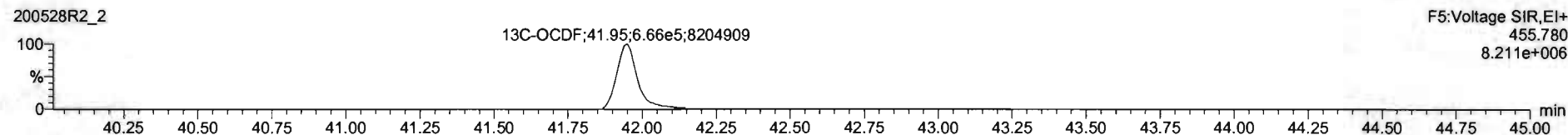
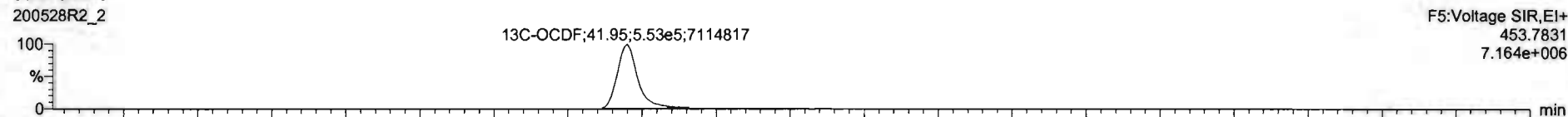
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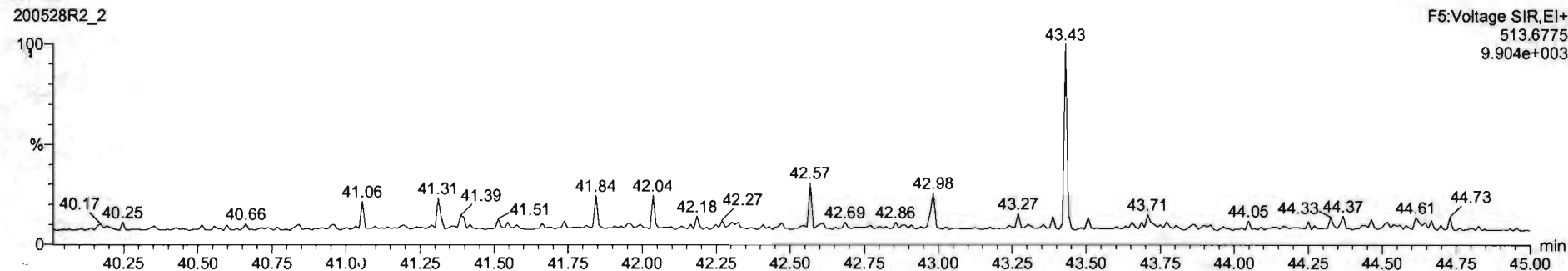
OCDF



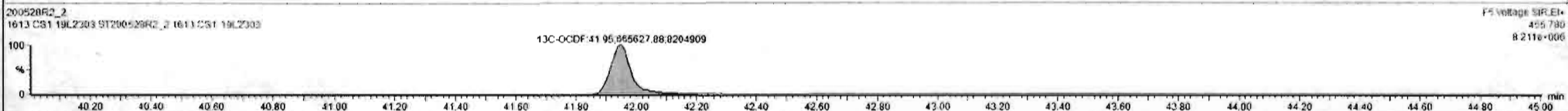
13C-OCDF



DPE5



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	5.69e3	0.78	NO	0.8883	1.000	26.57	1.001	0.497	99.4	0.0473	0.497
2 1,2,3,7,8-PeCDD	2.12e4	0.64	NO	0.9081	1.000	31.51	1.000	2.50	99.9	0.0401	2.50
3 1,2,3,4,7,8-HxCDD	1.85e4	1.27	NO	1.0334	1.000	24.85	1.000	2.53	101	0.0774	2.53
4 1,2,3,6,7,8-HxCDD	1.96e4	1.25	NO	0.8923	1.000	24.99	1.001	2.47	96.9	0.0747	2.47
5 1,2,3,7,8,9-HxCDD	1.62e4	1.21	NO	0.8869	1.000	35.27	1.001	2.44	97.7	0.0676	2.44
6 1,2,3,4,6,7,8-HpCDD	1.21e4	1.05	NO	0.8638	1.000	36.81	1.001	2.33	92.3	0.0613	2.33
7 OCDD	2.39e4	0.83	NO	0.9136	1.000	41.77	1.000	4.97	99.4	0.148	4.97
8 2,3,7,8-TCDF	6.53e3	0.75	NO	0.7510	1.000	25.67	1.001	0.488	97.7	0.0670	0.488
9 1,2,3,7,8-PeCDF	3.09e4	1.55	NO	0.8925	1.000	30.23	1.000	2.52	101	0.0422	2.52
10 2,3,4,7,8-PeCDF	3.19e4	1.55	NO	0.9348	1.000	31.21	1.000	2.52	101	0.0395	2.52
11 1,2,3,4,7,8-HxCDF	1.81e4	1.19	NO	0.8845	1.000	33.99	1.000	2.41	96.3	0.0665	2.41
12 1,2,3,6,7,8-HxCDF	2.16e4	1.25	NO	0.8892	1.000	34.12	1.000	2.50	100	0.0642	2.50
13 2,3,4,6,7,8-HxCDF	1.93e4	1.28	NO	0.9341	1.000	34.21	1.001	2.38	95.3	0.0702	2.38
14 1,2,3,7,8,9-HxCDF	1.42e4	1.12	NO	0.8707	1.000	35.61	1.000	2.42	96.9	0.102	2.42
15 1,2,3,4,6,7,8-HpCDF	1.40e4	0.94	NO	0.8734	1.000	37.40	1.001	2.48	99.1	0.0580	2.48
16 1,2,3,4,7,8,9-HpCDF	1.03e4	0.98	NO	1.0126	1.000	39.33	1.000	2.33	93.3	0.0630	2.33
17 OCDF	2.40e4	0.84	NO	0.8085	1.000	41.96	1.000	4.89	97.8	0.0756	4.89
18 13C-2,3,7,8-TCDD	1.29e0	0.79	NO	1.1563	1.000	26.54	1.025	39.3	89.8	0.0928	
19 13C-1,2,3,7,8-PeCDD	9.36e5	0.63	NO	0.8490	1.000	31.50	1.216	88.7	88.7	0.113	
20 13C-1,2,3,4,7,8-HxCDD	5.46e5	1.28	NO	0.7790	1.000	24.87	1.014	85.9	85.9	0.183	
21 13C-1,2,3,6,7,8-HxCDD	6.61e5	1.27	NO	1.0187	1.000	34.96	1.017	87.7	87.7	0.140	



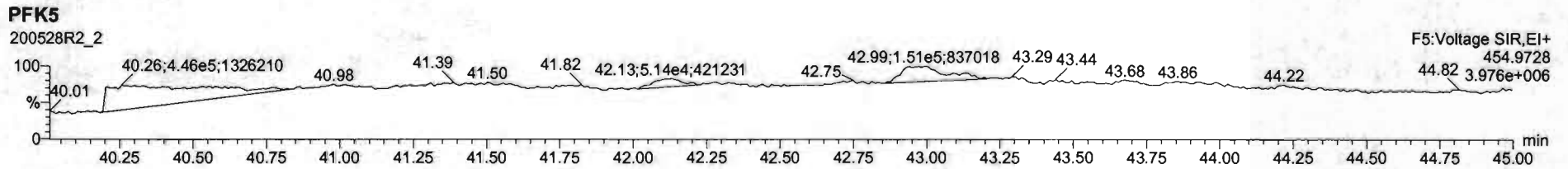
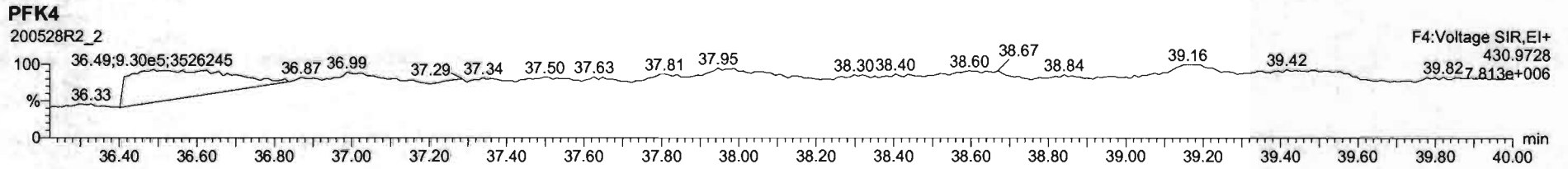
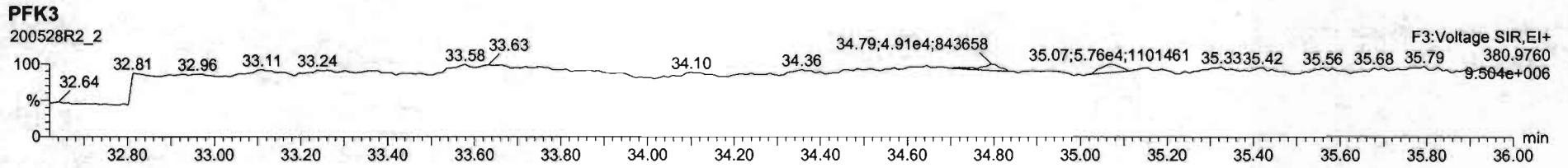
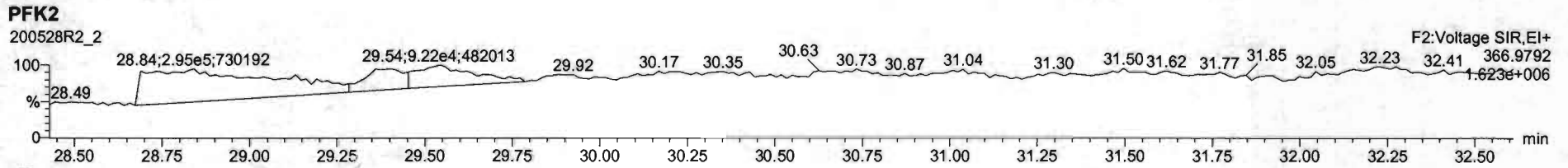
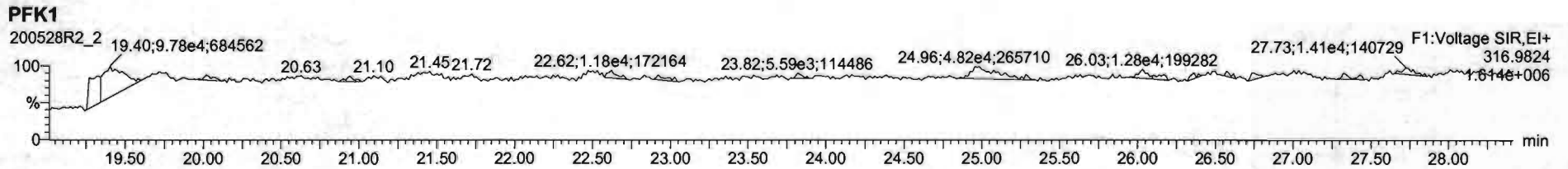
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200528R2_2 CAP NUM

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Printed: Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time

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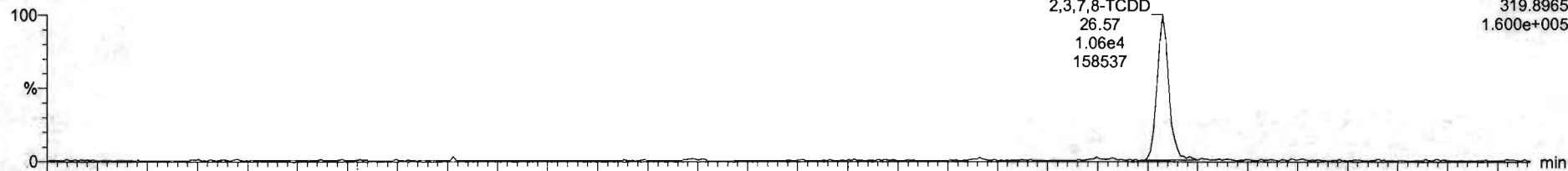
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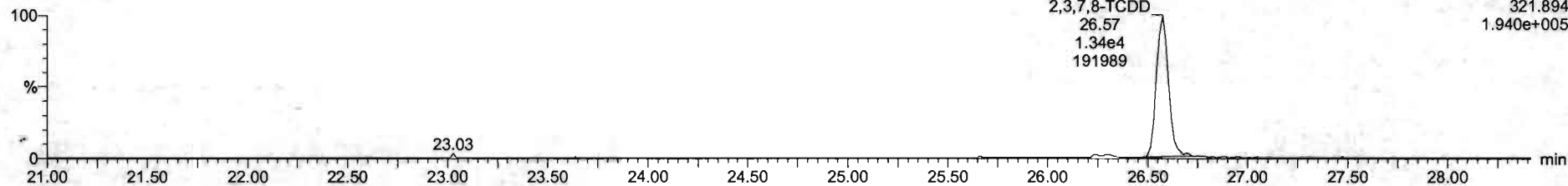
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2,3,7,8-TCDD

200528R2_3

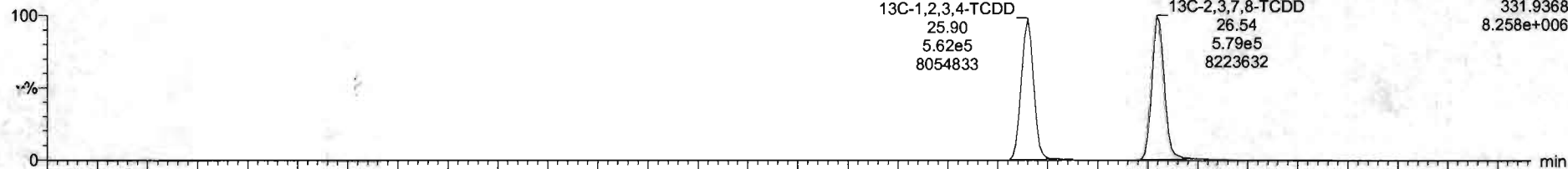


200528R2_3

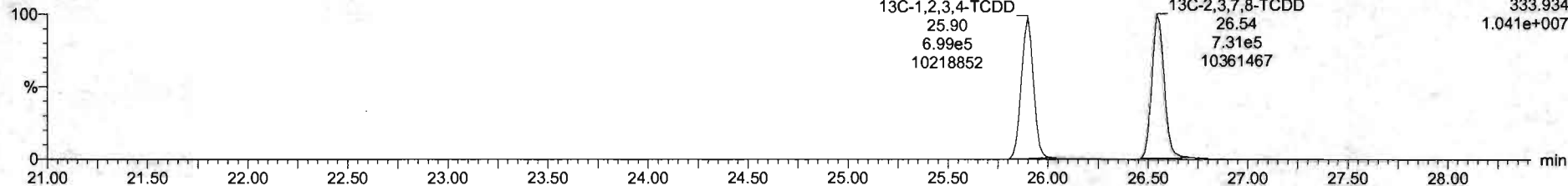


13C-2,3,7,8-TCDD

200528R2_3



200528R2_3



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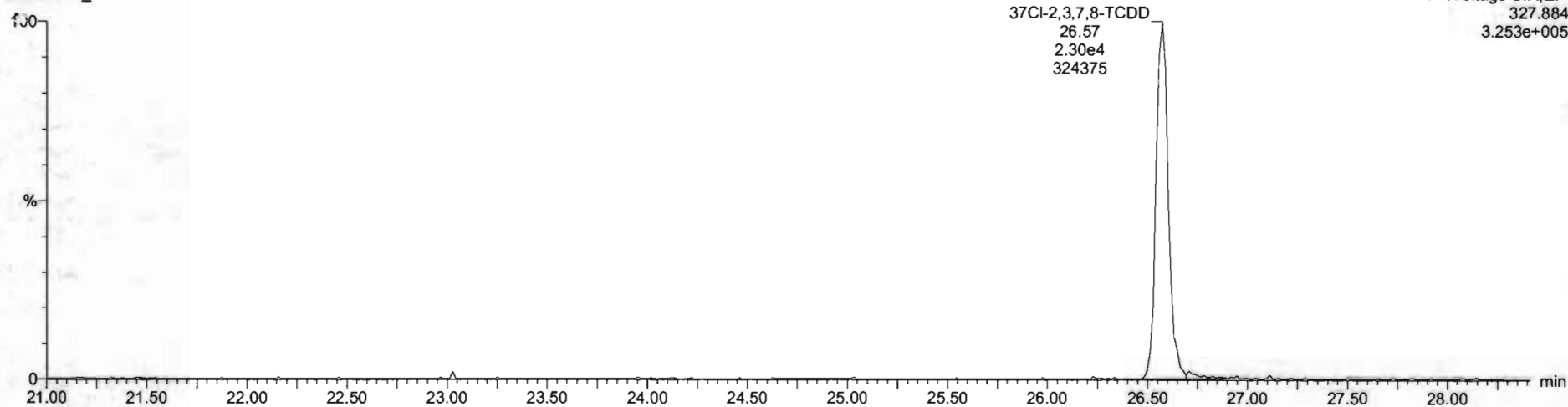
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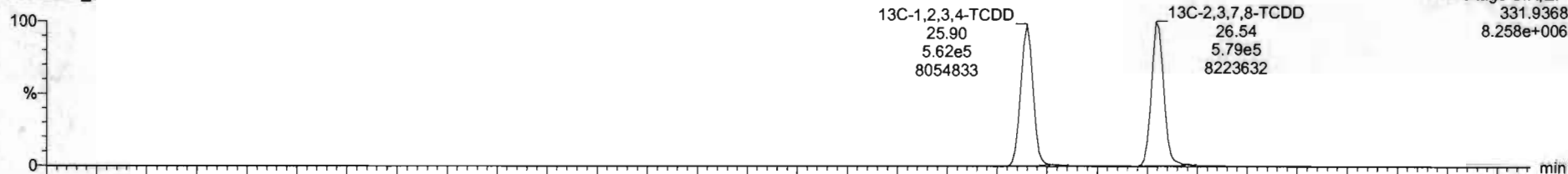
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200528R2_3

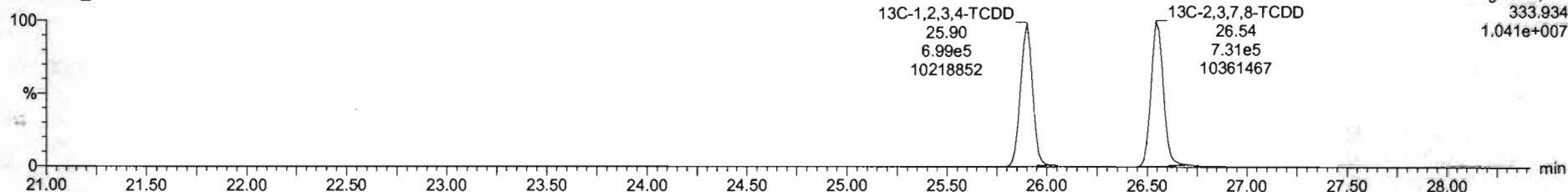


13C-1,2,3,4-TCDD

200528R2_3



200528R2_3



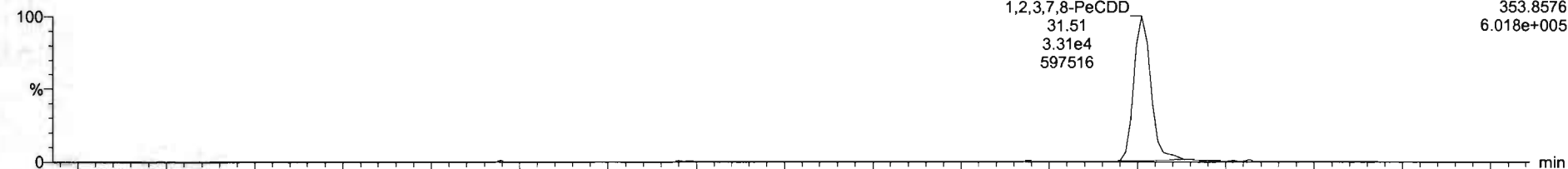
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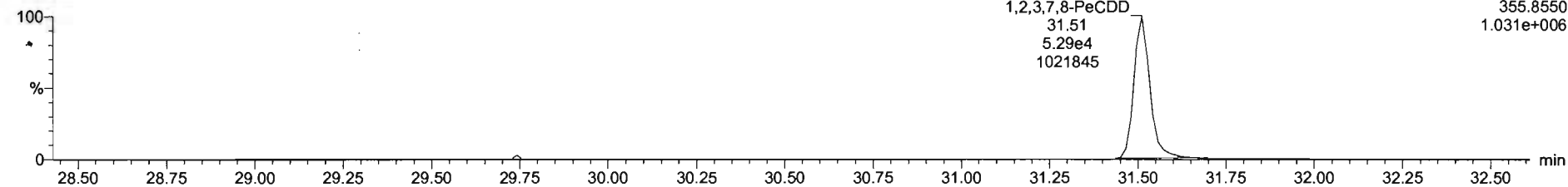
1,2,3,7,8-PeCDD

200528R2_3



F2:Voltage SIR,EI+
353.8576
6.018e+005

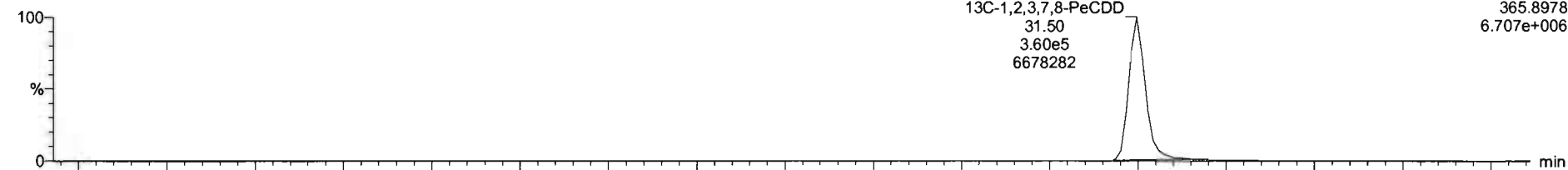
200528R2_3



F2:Voltage SIR,EI+
355.8550
1.031e+006

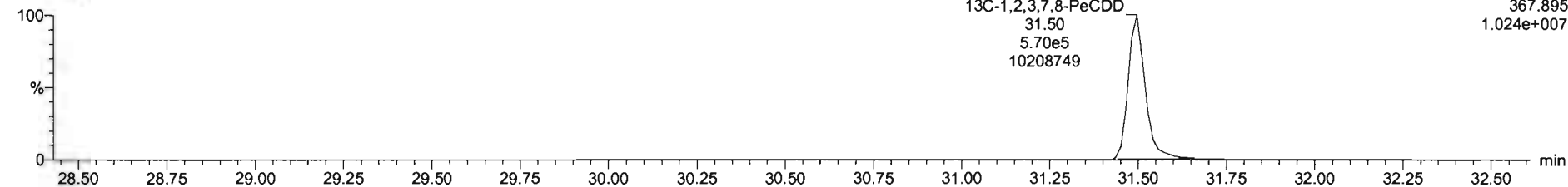
13C-1,2,3,7,8-PeCDD

200528R2_3



F2:Voltage SIR,EI+
365.8978
6.707e+006

200528R2_3



F2:Voltage SIR,EI+
367.895
1.024e+007

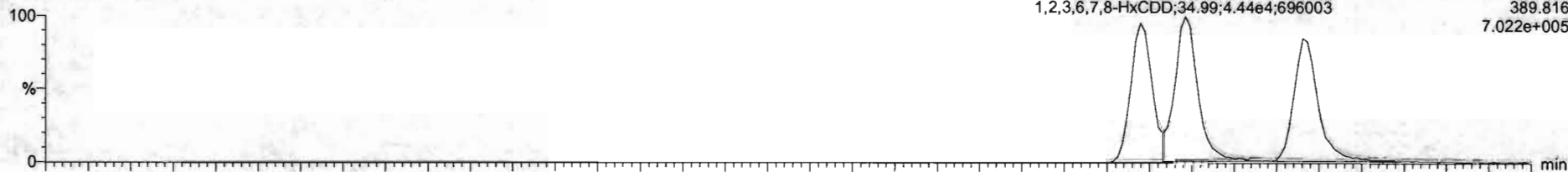
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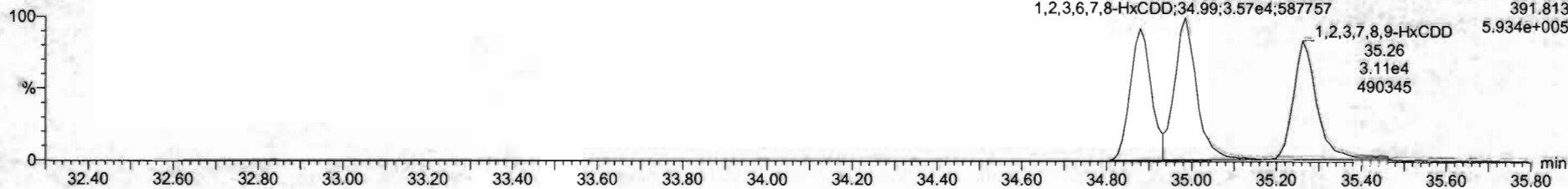
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1,2,3,4,7,8-HxCDD

200528R2_3

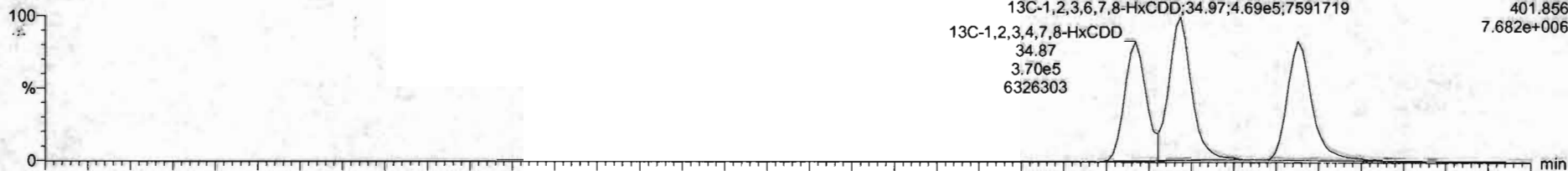


200528R2_3

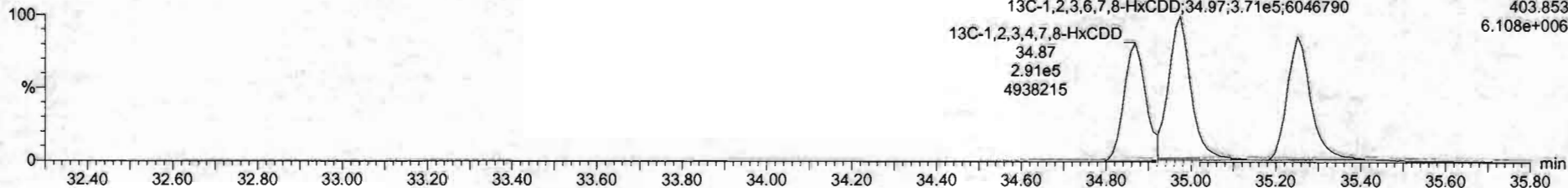


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200528R2_3



200528R2_3



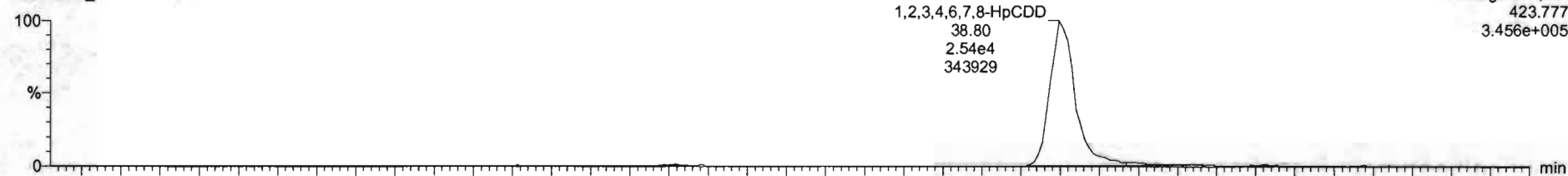
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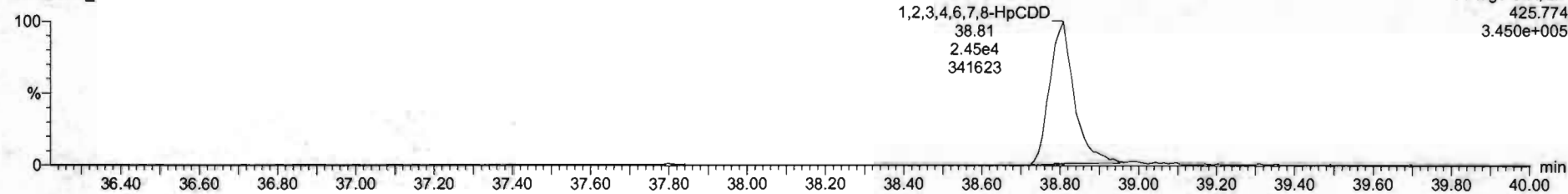
1,2,3,4,6,7,8-HpCDD

200528R2_3



F4: Voltage SIR, EI+
423.777
3.456e+005

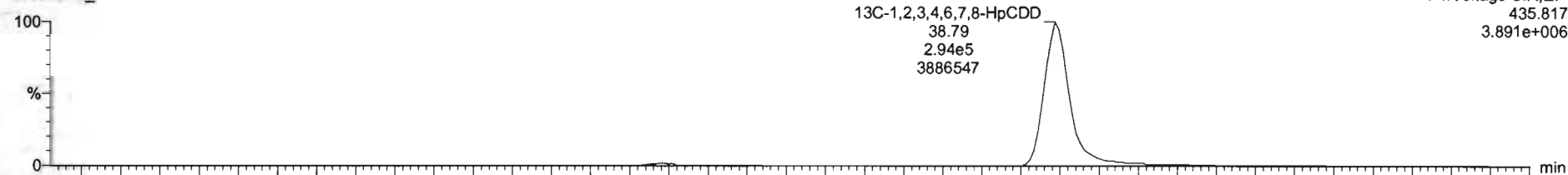
200528R2_3



F4: Voltage SIR, EI+
425.774
3.450e+005

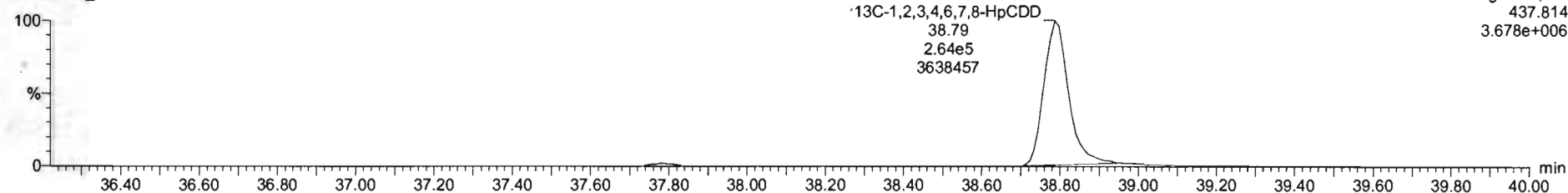
13C-1,2,3,4,6,7,8-HpCDD

200528R2_3



F4: Voltage SIR, EI+
435.817
3.891e+006

200528R2_3

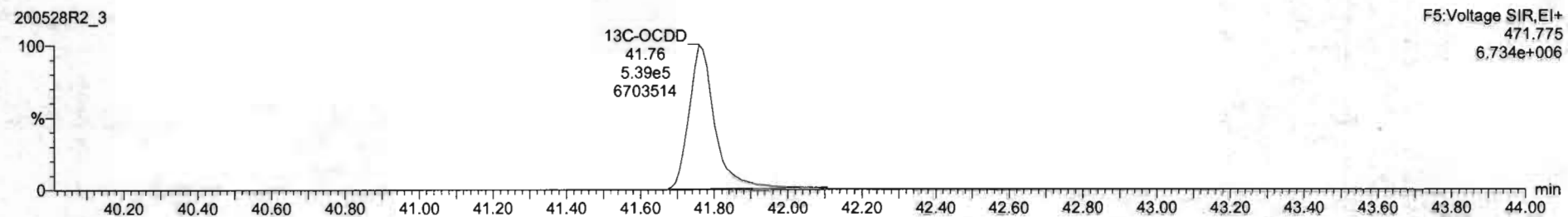
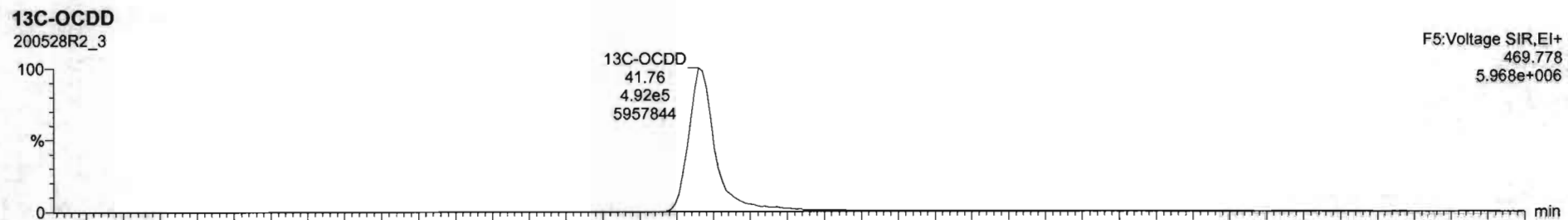
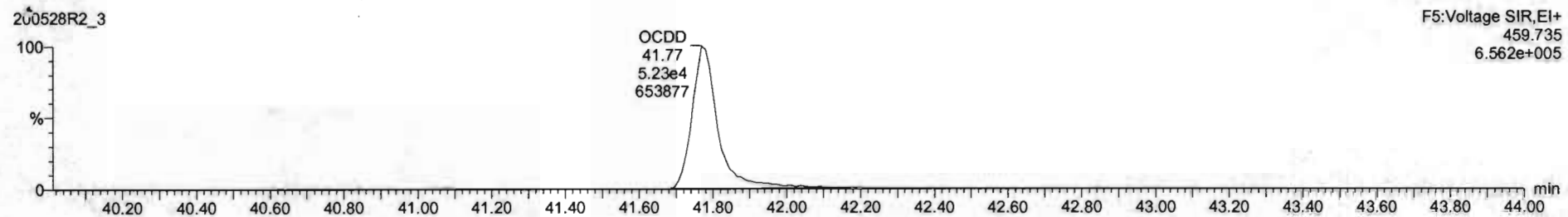
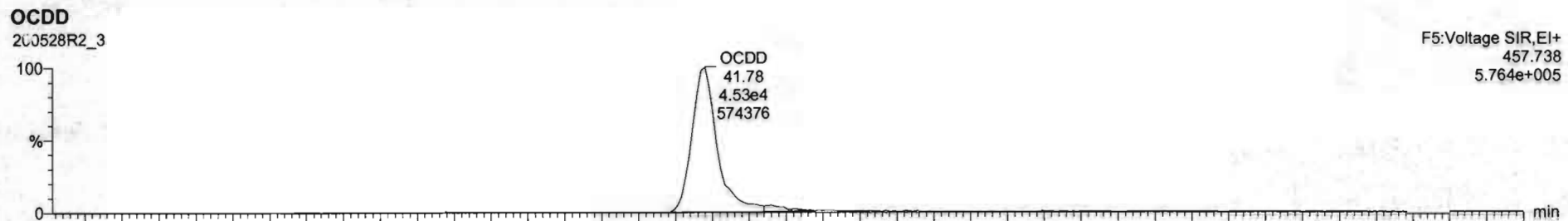


F4: Voltage SIR, EI+
437.814
3.678e+006

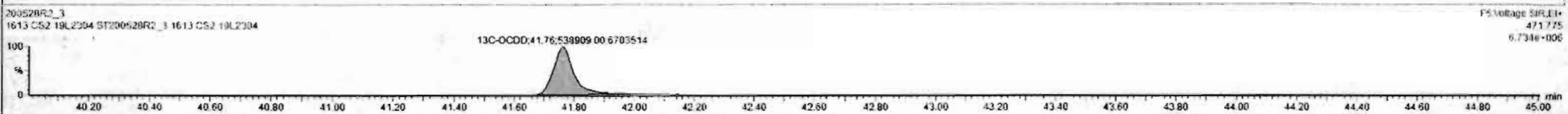
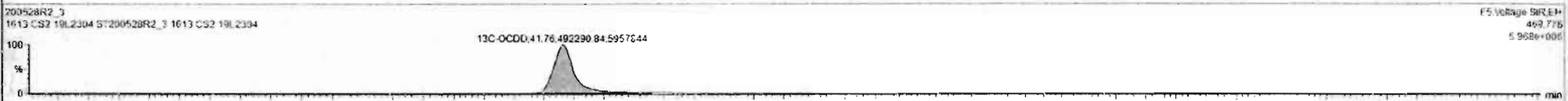
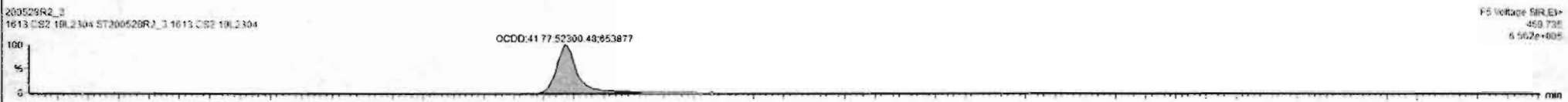
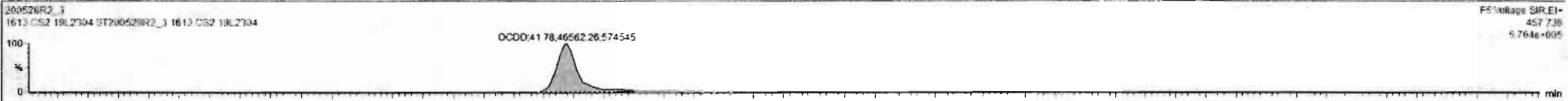
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Name: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



Name	Resp	RA	n/y	RHF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	2.40e4	0.30	NO	0.8983	1.000	26.57	1.001	2.05	103	0.0278	2.96
2 1,2,3,7,8-PeCDD	5.50e4	0.63	NO	0.9081	1.000	31.51	1.000	10.2	102	0.0400	10.2
3 1,2,3,4,7,8-HxCDD	6.94e4	1.24	NO	1.0324	1.000	34.88	1.000	10.2	102	0.0561	10.2
4 1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8523	1.000	34.99	1.000	10.7	107	0.0559	10.7
5 1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.8265	1.000	35.26	1.000	10.5	105	0.0679	10.5
6 1,2,3,4,6,7,8-HpCDD	4.59e4	1.93	NO	0.8639	1.000	38.50	1.000	10.4	104	0.0797	10.4
7 OCDD	9.65e4	0.39	NO	0.9136	1.000	41.76	1.000	21.0	105	0.109	21.0
8 2,3,7,8-TCDF	2.67e4	0.74	NO	0.7510	1.000	26.88	1.001	1.97	96.6	0.0321	1.97
9 1,2,3,7,8-PeCDF	1.31e5	1.55	NO	0.8925	1.000	30.23	1.000	10.7	107	0.0517	10.7
10 2,3,4,7,8-PeCDF	1.34e5	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11 1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.81	1.001	10.6	106	0.0661	10.6
12 1,2,3,6,7,8-HxCDF	5.20e4	1.28	NO	0.8892	1.000	34.12	1.000	10.3	103	0.0595	10.3
13 2,3,4,6,7,8-HxCDF	6.53e4	1.25	NO	0.9341	1.000	34.71	1.000	10.5	105	0.0860	10.5
14 1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8707	1.000	35.62	1.000	10.3	103	0.0961	10.3
15 1,2,3,4,6,7,8-HpCDF	5.72e4	1.00	NO	0.6734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16 1,2,3,4,7,8,9-HpCDF	4.43e4	1.91	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0861	10.4
17 OCDF	3.85e4	0.66	NO	0.8085	1.000	41.96	1.000	20.6	103	0.0967	20.6
18 13C-2,3,7,8-TCDD	1.31e6	0.79	NO	1.1583	1.000	26.54	1.025	29.3	89.6	0.0659	
19 13C-1,2,3,7,8-PeCDD	9.29e5	0.63	NO	0.8450	1.000	31.50	1.216	86.8	86.8	0.123	
20 13C-1,2,3,4,7,8-HxCDD	6.61e5	1.27	NO	0.7790	1.000	34.87	1.014	87.0	87.0	0.189	
21 13C-1,2,3,6,7,8-HxCDD	6.39e5	1.26	NO	1.0167	1.000	34.97	1.017	84.7	84.7	0.145	



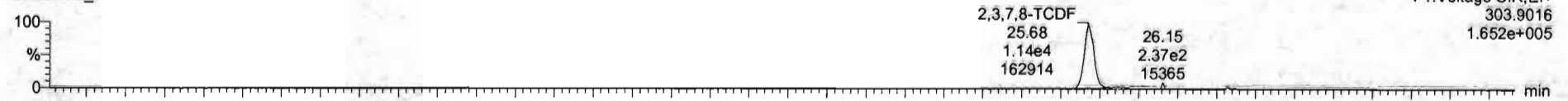
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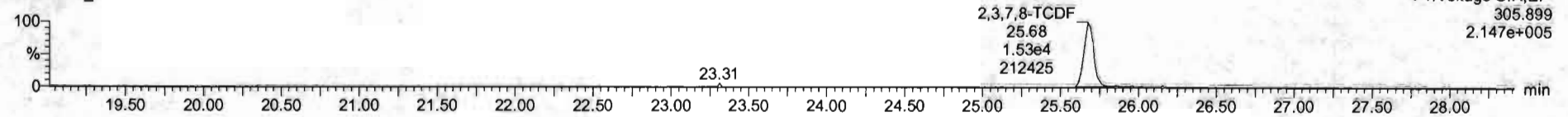
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2,3,7,8-TCDF

200528R2_3

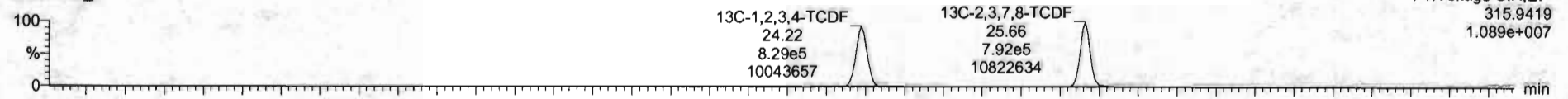


200528R2_3

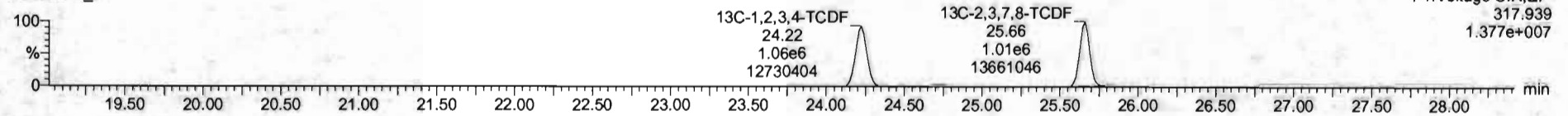


13C-2,3,7,8-TCDF

200528R2_3

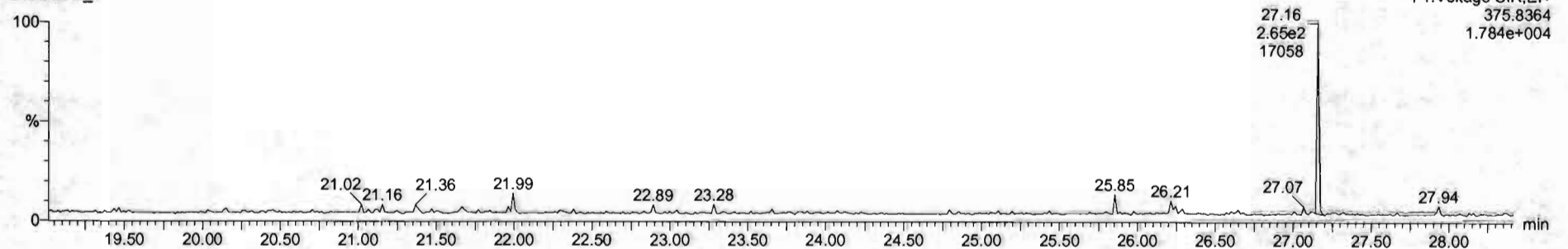


200528R2_3



DPE1

200528R2_3



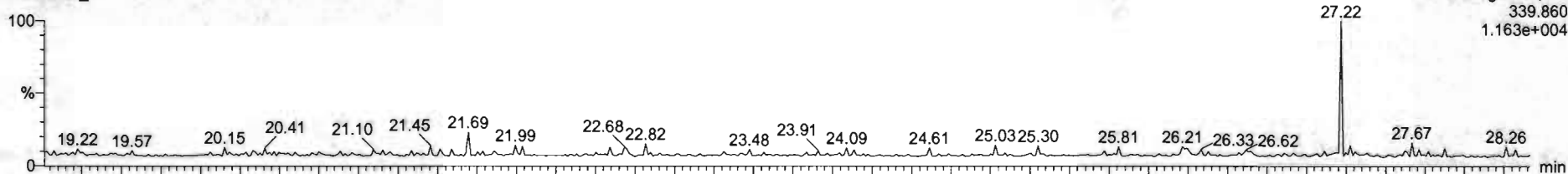
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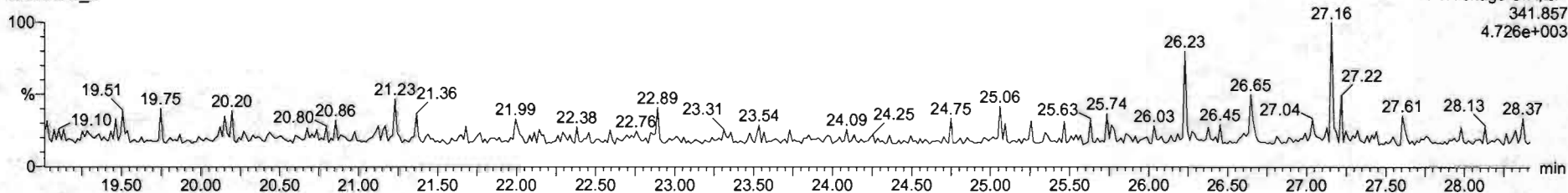
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1st Func. Penta-Furans

200528R2_3

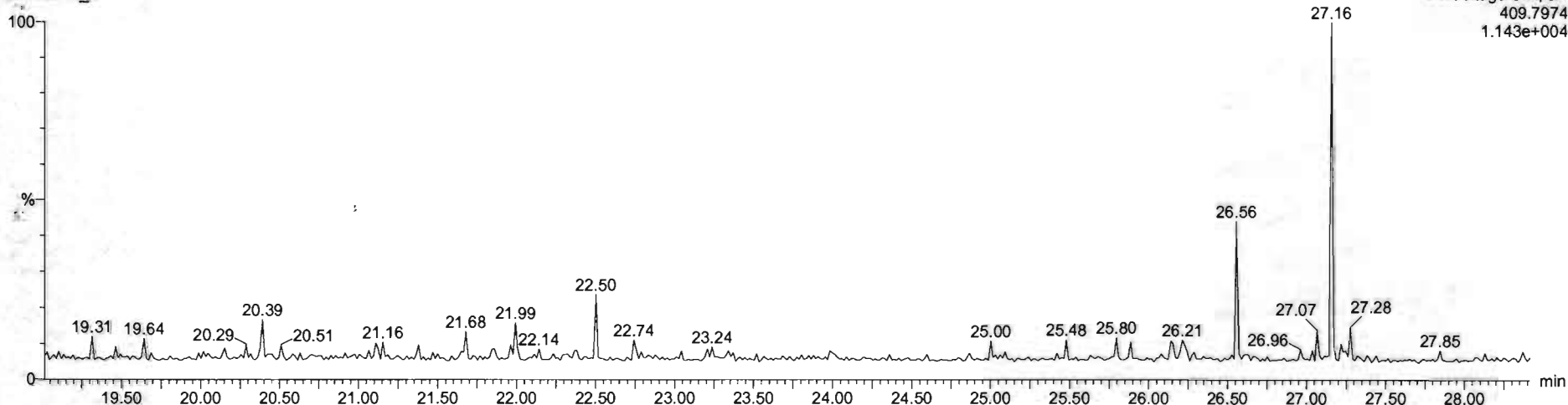


200528R2_3



DPE6

200528R2_3



Dataset: Untitled

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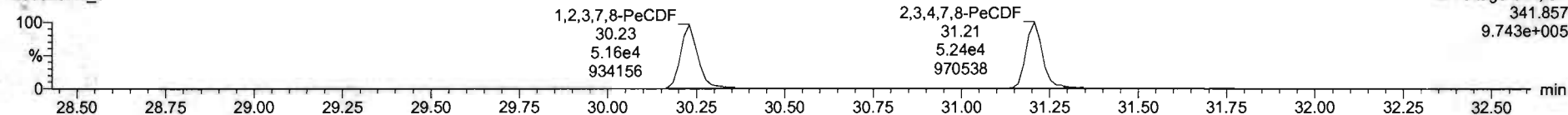
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1,2,3,7,8-PeCDF

200528R2_3

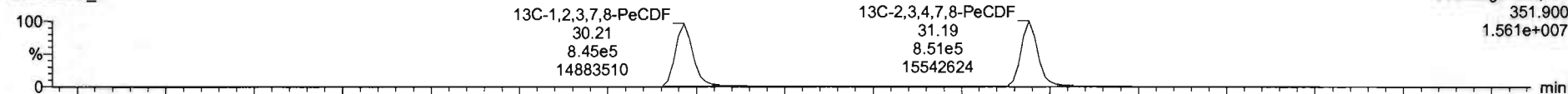


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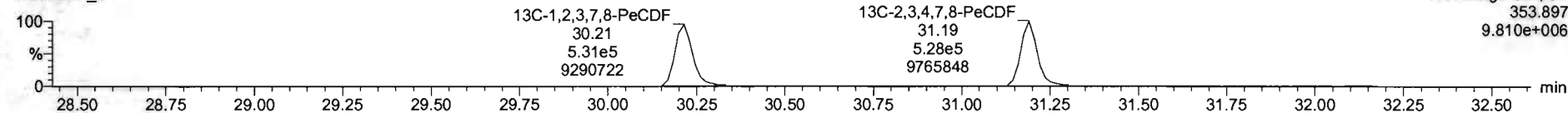


13C-1,2,3,7,8-PeCDF

200528R2_3

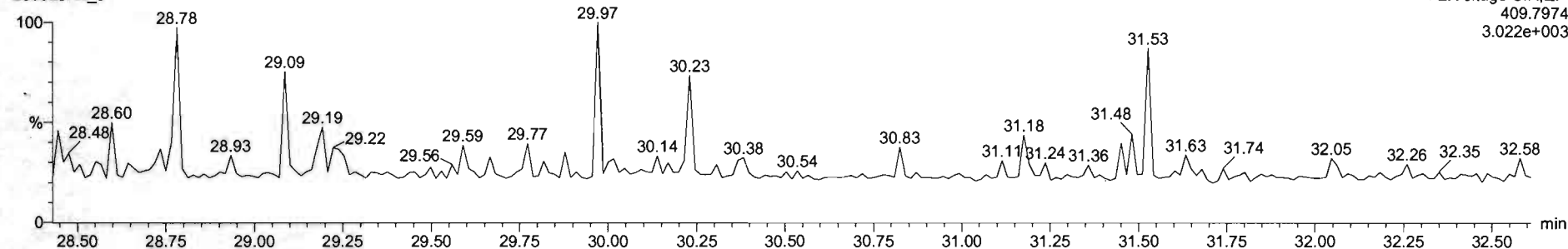


200528R2_3



DPE2

200528R2_3



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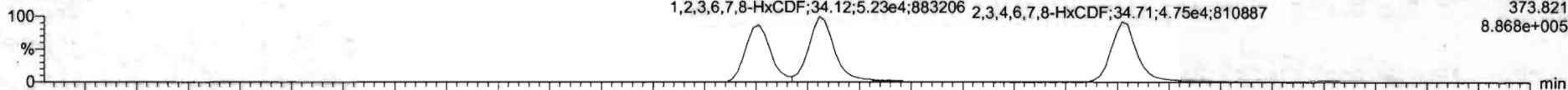
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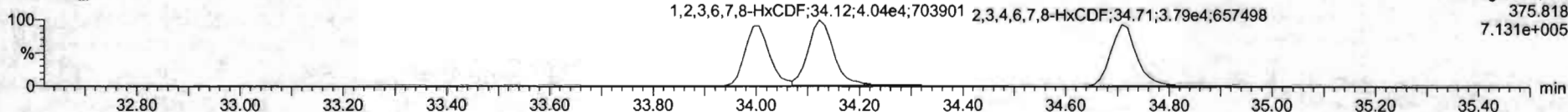
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1,2,3,4,7,8-HxCDF

200528R2_3

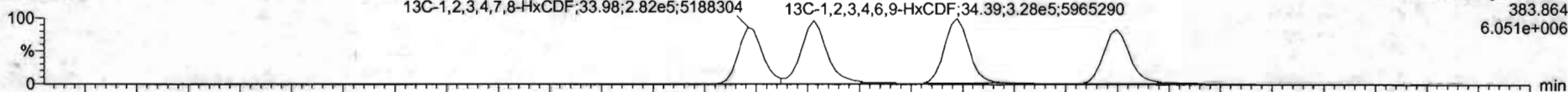


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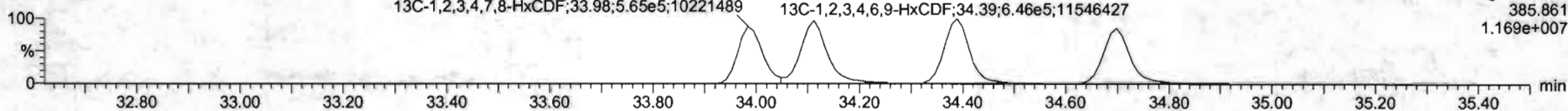


13C-1,2,3,4,7,8-HxCDF

200528R2_3

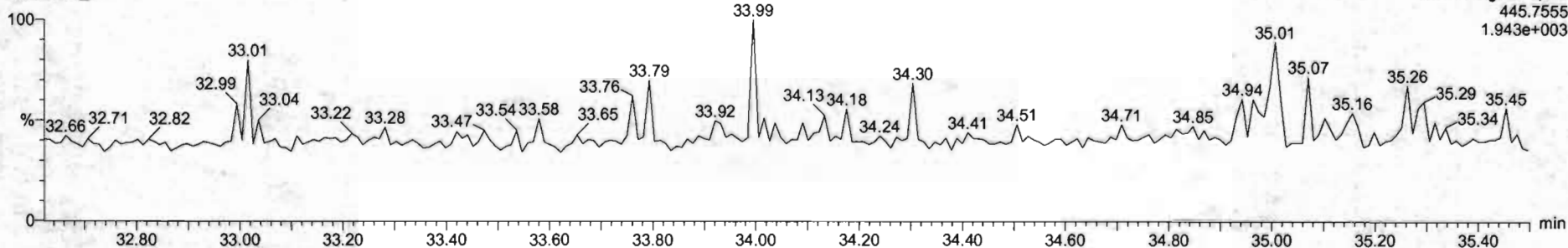


200528R2_3



DPE3

200528R2_3



#	Name	Resp	RA	n/y	RRF	weight	BT	NK1	Conc	%Rec	DR	EMPL
1	1,2,3,6,7-CDD	2.58e4	0.39	NO	0.8883	1.000	26.07	1.001	2.08	103	0.0070	2.08
2	1,2,3,7,8-PeCDD	5.58e4	0.43	NO	0.9051	1.000	31.51	1.000	10.2	102	0.0400	10.2
3	1,2,3,4,7,8-HxCDD	5.94e4	1.24	NO	1.0334	1.000	34.88	1.000	16.2	102	0.0531	16.2
4	1,2,3,6,7,8-HxCDD	6.01e4	1.24	NO	0.8923	1.000	34.95	1.000	16.7	107	0.0558	16.7
5	1,2,3,7,8,9-HxCDD	7.01e4	1.26	NO	0.9269	1.000	35.26	1.000	16.1	105	0.0670	16.1
6	1,2,3,4,6,7,8-HpCDD	4.99e4	1.02	NO	0.8839	1.000	39.80	1.000	18.4	104	0.0797	18.4
7	OCDD	9.89e4	0.39	NO	0.9136	1.000	41.75	1.000	21.0	105	0.1169	21.0
8	1,2,3,6,7,8-PeCDF	2.87e4	0.74	NO	0.7510	1.000	35.60	1.001	1.91	98.8	0.0511	1.91
9	1,2,3,7,8-PeCDF	1.31e5	1.58	NO	0.8025	1.000	36.23	1.000	10.7	107	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.34e5	1.55	NO	0.9346	1.000	31.21	1.000	10.4	104	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	7.91e4	1.22	NO	0.8545	1.000	34.01	1.001	10.5	106	0.0611	10.4
12	1,2,3,6,7,8-HxCDF	9.26e4	1.28	NO	0.8852	1.000	34.12	1.000	11.3	103	0.0595	11.3
13	1,2,3,6,7,8-HxCDF	8.03e4	1.21	NO	0.9191	1.000	34.71	1.000	10.5	105	0.0693	10.5
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.9707	1.000	35.62	1.000	10.3	102	0.0961	10.3
15	1,2,3,4,6,7,8-HpCDF	3.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0828	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	1.0128	1.000	39.34	1.000	10.4	104	0.0881	10.4
17	OCDF	5.58e4	0.36	NO	0.8585	1.000	41.90	1.000	26.3	103	0.0967	26.3
18	1,2,3,6,7,8-PeCDD	1.31e5	0.79	NO	1.1562	1.000	26.04	1.025	39.0	39.8	0.0809	39.0
19	1,2,3,7,8-PeCDF	9.26e4	0.63	NO	0.8499	1.000	31.50	1.216	98.0	98.1	0.123	98.0
20	1,2,3,4,7,8-HxCDD	6.61e5	1.27	NO	0.7790	1.000	24.97	1.014	37.0	37.2	0.149	37.0
21	1,2,3,6,7,8-HxCDD	6.19e5	1.38	NO	1.0167	1.000	24.97	1.017	64.7	64.7	0.146	64.7





#	Name	Range	ISA	Qty	RFP	wtVol	RT	RRT	Conc	%Rec	DI	EMPC
1	1,2,3,7,8-HxCDD	2.48e4	0.30	NO	0.8853	1.000	26.17	1.001	3.28	101	0.0079	2.01
2	1,2,3,7,8-PeCDD	5.55e4	0.50	NO	0.9041	1.000	31.21	1.002	10.2	102	0.0430	12.2
3	1,2,3,4,7,8-HxCDD	5.89e4	1.24	NO	1.0334	1.000	34.00	1.000	10.2	102	0.0511	10.2
4	1,2,3,6,7,8-HxCDD	1.01e4	1.24	NO	0.8921	1.000	34.99	1.000	10.7	101	0.0569	10.7
5	1,2,3,7,8,9-HxCDD	7.51e4	1.25	NO	0.8905	1.000	35.20	1.000	10.5	101	0.0670	10.5
6	1,2,3,4,6,7,8-HpCDD	4.99e4	1.03	NO	0.8838	1.000	28.00	1.000	10.4	104	0.0191	10.4
7	COCDD	3.89e4	0.30	NO	0.9130	1.000	41.75	1.000	21.0	105	0.1005	21.0
8	1,2,3,7,8-HxCDF	2.87e4	0.74	NO	0.7510	1.000	25.09	1.001	1.91	98.6	0.0231	1.91
9	1,2,3,7,8-PeCDF	1.31e4	1.55	NO	0.9225	1.000	30.21	1.000	10.7	101	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.38e4	1.55	NO	0.9245	1.000	31.21	1.000	10.5	104	0.0475	10.4
11	1,2,3,4,7,8-HpCDF	7.91e4	1.20	NO	0.8545	1.000	34.01	1.001	10.5	100	0.0683	10.5
12	1,2,3,6,7,8-HxCDF	4.26e4	1.25	NO	0.9092	1.000	34.12	1.000	10.2	103	0.0595	10.2
13	1,2,3,6,7,8-HpCDF	8.51e4	1.25	NO	0.9341	1.000	34.71	1.000	10.1	100	0.0600	10.1
14	1,2,3,7,8,9-HxCDF	6.49e4	1.24	NO	0.8787	1.000	35.81	1.000	10.3	102	0.0501	10.3
15	1,2,3,4,6,7,8-HpCDF	1.72e4	1.00	NO	0.8734	1.000	37.40	1.001	10.1	101	0.0820	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	0.9128	1.000	39.38	1.000	10.4	104	0.0601	10.4
17	OCDF	3.58e4	0.50	NO	0.8985	1.000	41.96	1.000	25.4	103	0.0963	25.4
18	1,2,3,4,6,7,8,9-HxCDF	1.31e4	0.79	NO	1.1560	1.000	26.54	1.025	19.0	99.5	0.0663	
19	1,2,3,6,7,8,9-HxCDF	9.29e4	0.03	NO	0.9420	1.000	31.08	1.216	98.0	96.8	0.123	
20	1,2,3,4,7,8,9-HpCDD	2.61e4	1.27	NO	0.7798	1.000	34.07	1.034	57.0	97.0	0.159	
21	1,2,3,4,6,7,8-HxCDD	6.20e4	1.26	NO	1.0187	1.000	24.97	1.017	34.7	34.7	0.145	



Custom Reporting: Select reports to generate

20052892_3 CAP NLSM

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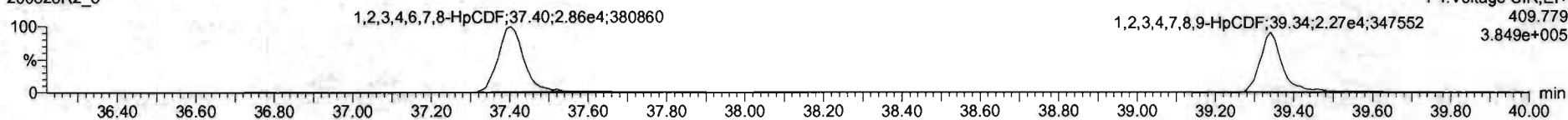
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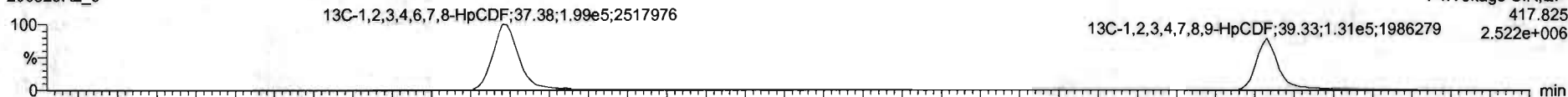


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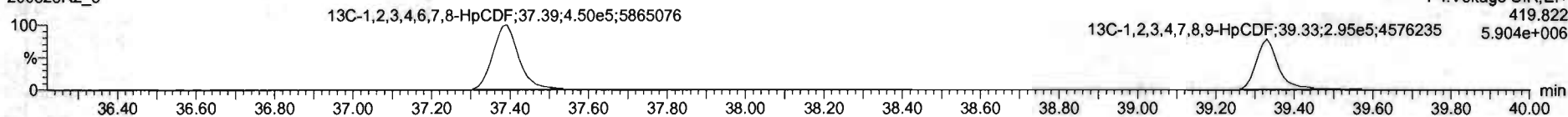


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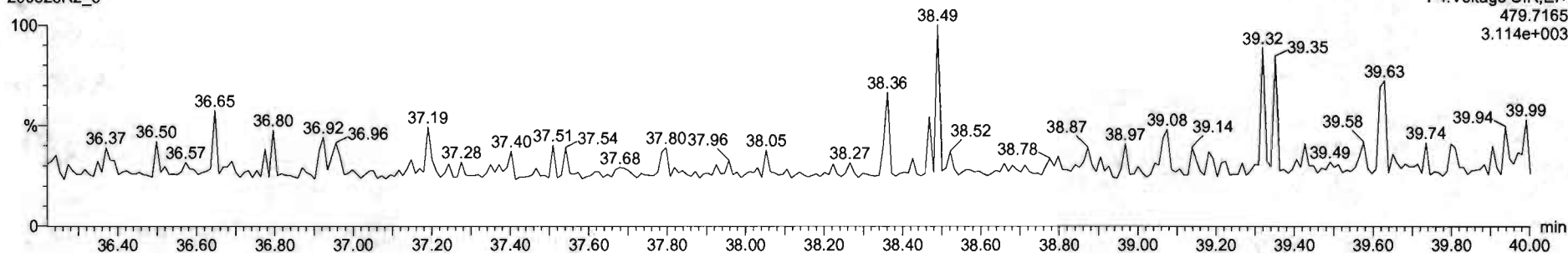


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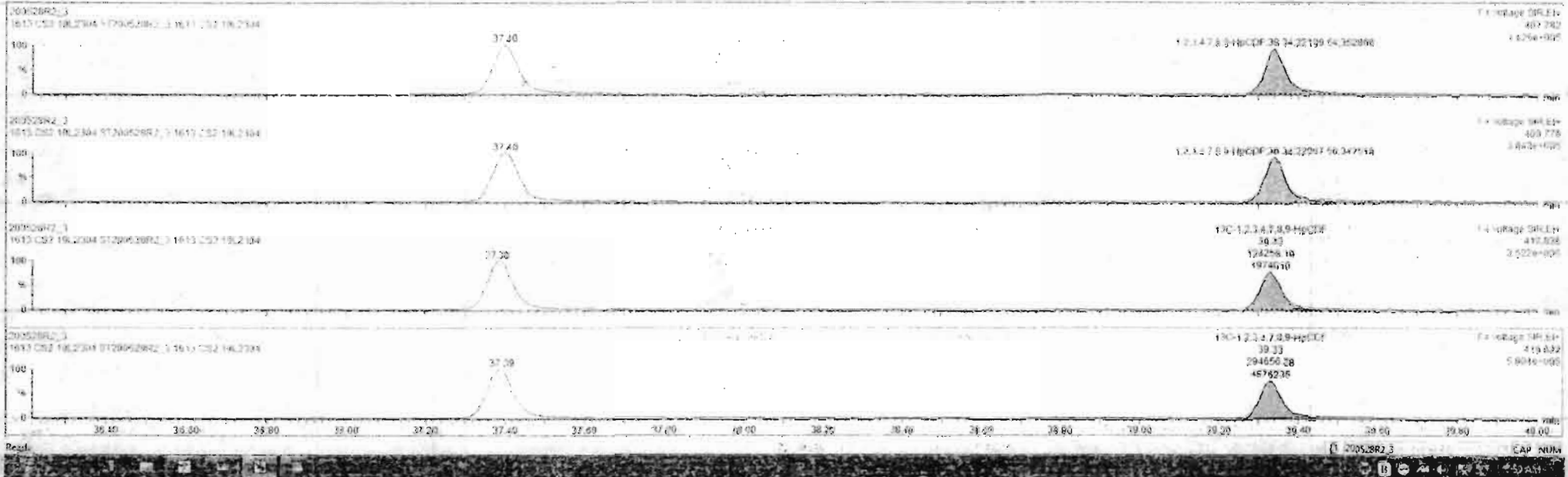
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1613 CS2 19.2304

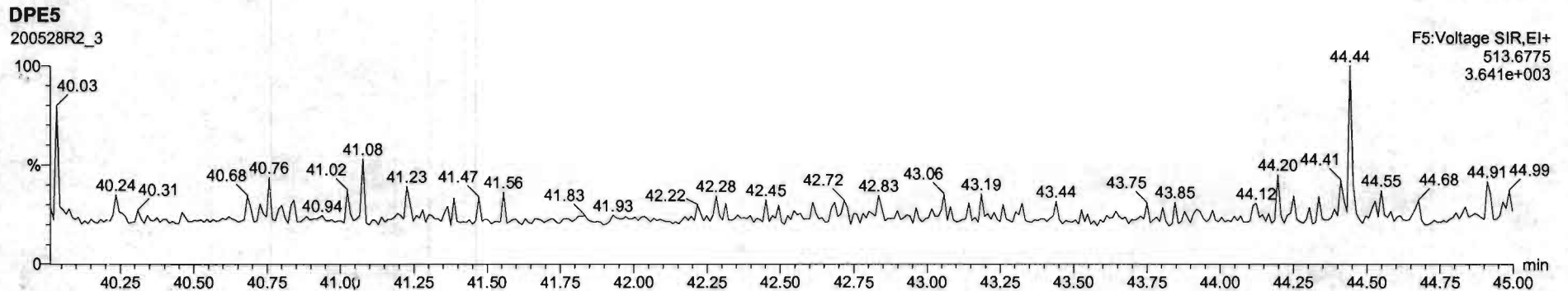
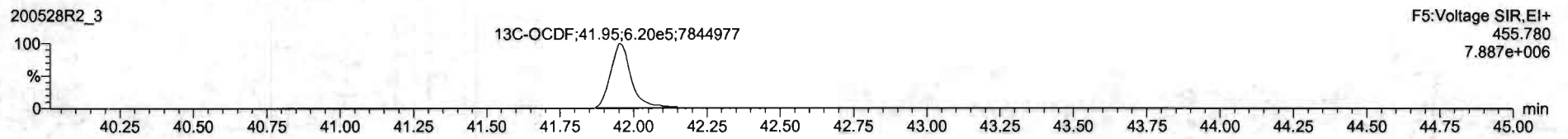
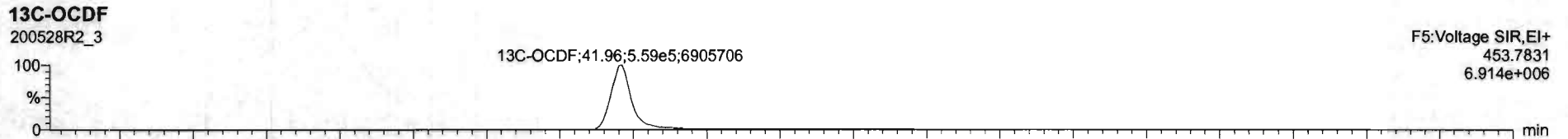
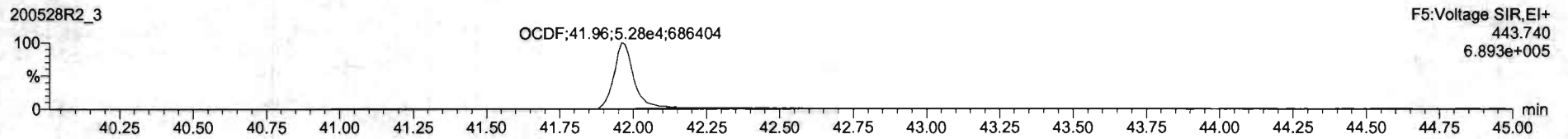
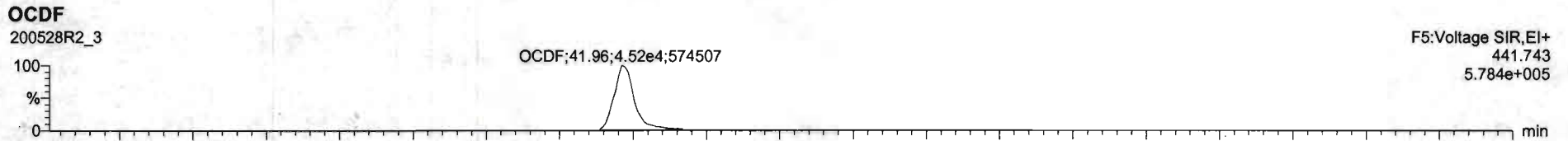
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2	1,2,3,7,8-PeCDF	1.50e4	0.03	NO	0.9091	1.00	31.01	1.00	10.0	107	0.0400	10.2
3	1,2,3,4,7,8-HxCDF	0.90e4	1.24	NO	1.0334	1.00	34.05	1.00	10.0	107	0.0501	10.2
4	1,2,3,6,7,8-HxCDF	0.01e4	1.04	NO	0.9621	1.00	34.36	1.00	10.0	107	0.0559	10.2
5	1,2,3,7,8-HxCDF	2.11e4	1.26	NO	0.8809	1.00	35.26	1.00	10.0	107	0.0579	10.3
6	1,2,3,4,6,7,8-HpCDF	1.90e4	1.02	NO	0.8639	1.00	35.90	1.00	10.0	104	0.0792	10.4
7	OCDF	0.00e4	0.00	NO	0.9106	1.00	31.75	1.00	21.0	105	0.100	21.0
8	1,2,3,6,7,8-HxCDF	2.77e4	0.74	NO	0.7510	1.00	25.00	1.00	1.00	96.8	0.0101	1.00
9	1,2,3,7,8-HxCDF	1.15e4	1.90	NO	0.6902	1.00	30.21	1.00	10.0	107	0.0517	10.7
10	1,2,3,4,7,8-HxCDF	1.10e4	1.05	NO	0.9140	1.00	31.41	1.00	10.0	104	0.0475	10.4
11	1,2,3,4,7,8-HxCDF	2.91e4	1.02	NO	0.6940	1.00	34.05	1.00	10.0	106	0.0651	10.6
12	1,2,3,6,7,8-HxCDF	1.20e4	1.08	NO	0.9042	1.00	34.12	1.00	10.0	103	0.0595	10.3
13	1,2,3,4,7,8-HxCDF	0.50e4	1.05	NO	0.9341	1.00	34.71	1.00	10.0	105	0.0690	10.5
14	1,2,3,7,8-HxCDF	0.40e4	1.24	NO	0.9202	1.00	31.92	1.00	10.0	103	0.0601	10.3
15	1,2,3,4,6,7,8-HpCDF	1.70e4	1.00	NO	0.9234	1.00	37.40	1.00	10.0	101	0.0620	10.1
16	1,2,3,4,7,8,9-HpCDF	4.43e4	1.01	NO	1.0120	1.00	30.34	1.00	10.0	104	0.0681	10.4
17	OCDF	0.00e4	0.00	NO	0.9060	1.00	41.30	1.00	26.0	103	0.0847	26.0
18	1,2,3,4,6,7,8-HpCDF	1.31e4	0.76	NO	1.1503	1.00	26.34	1.00	0.00	39.0	0.0800	0.00
19	1,2,3,4,7,8,9-HpCDF	0.90e4	0.03	NO	0.9450	1.00	31.90	1.00	1.00	80.0	0.123	1.00
20	1,2,3,4,7,8,9-HpCDF	0.61e4	1.27	NO	0.7790	1.00	34.07	1.00	0.00	87.0	0.100	0.00
21	1,2,3,4,6,7,8-HpCDF	0.30e4	1.20	NO	1.0107	1.00	34.07	1.00	0.00	84.7	0.140	0.00



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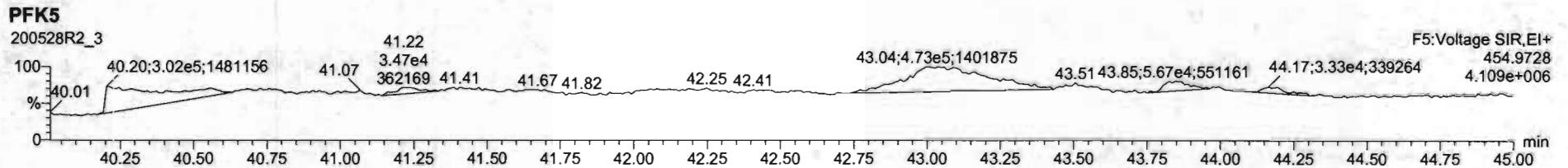
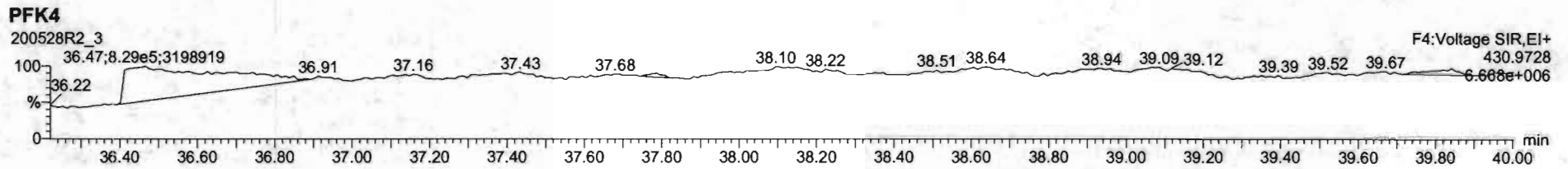
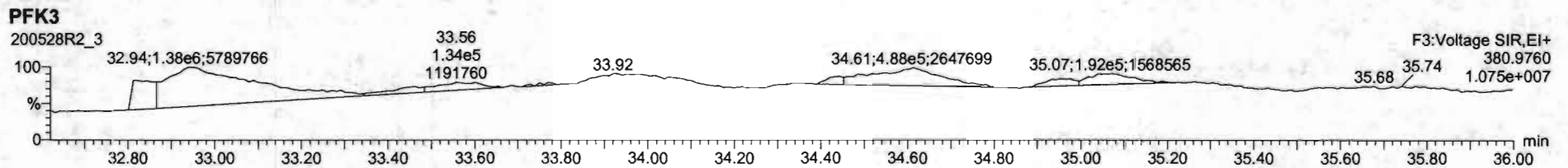
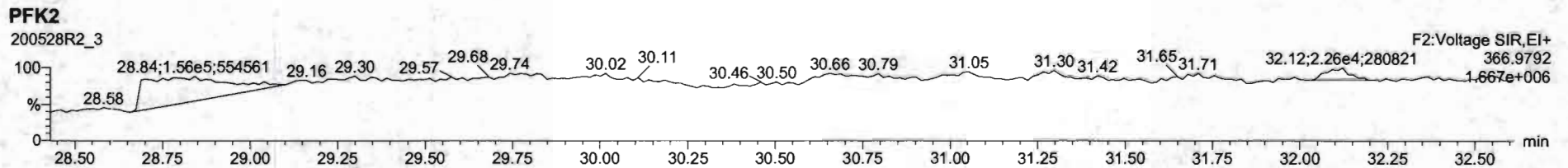
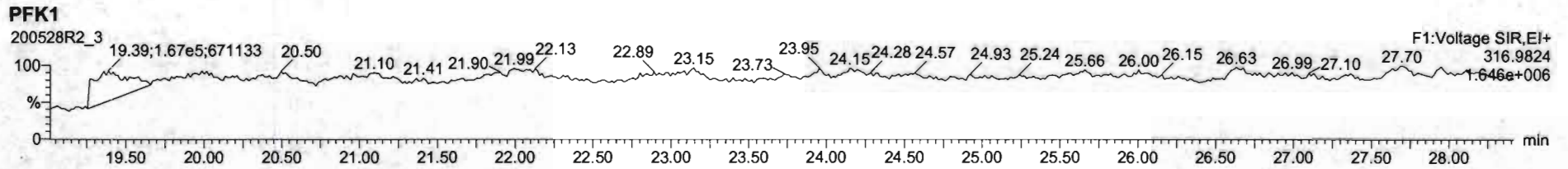
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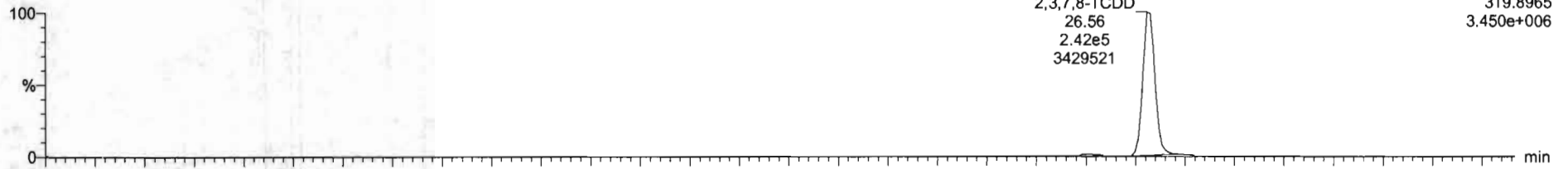
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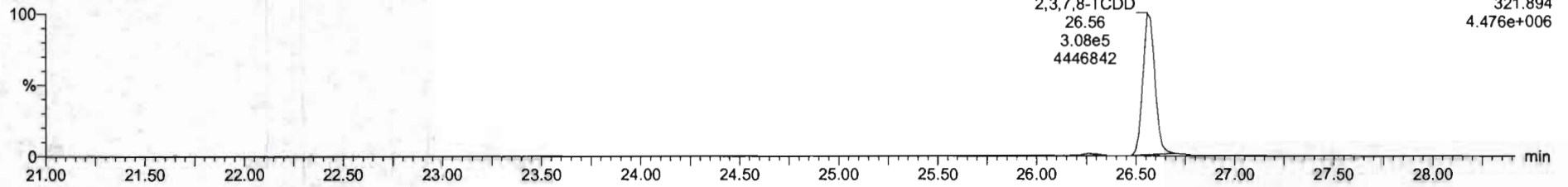
2,3,7,8-TCDD

200528R2_4



F1:Voltage SIR,EI+
319.8965
3.450e+006

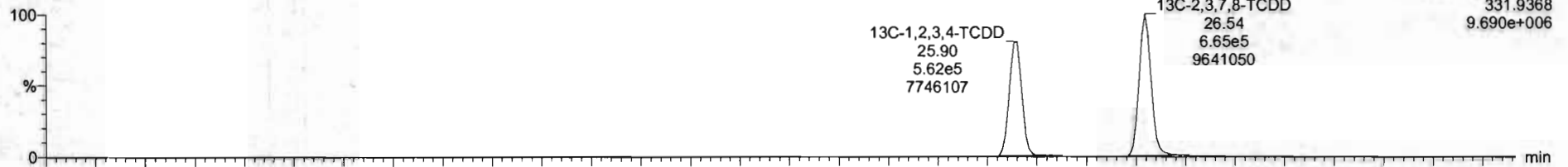
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F1:Voltage SIR,EI+
321.894
4.476e+006

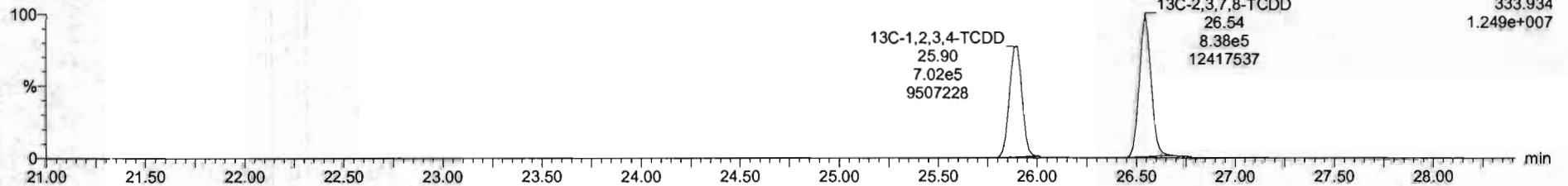
13C-2,3,7,8-TCDD

200528R2_4



F1:Voltage SIR,EI+
331.9368
9.690e+006

200528R2_4



F1:Voltage SIR,EI+
333.934
1.249e+007

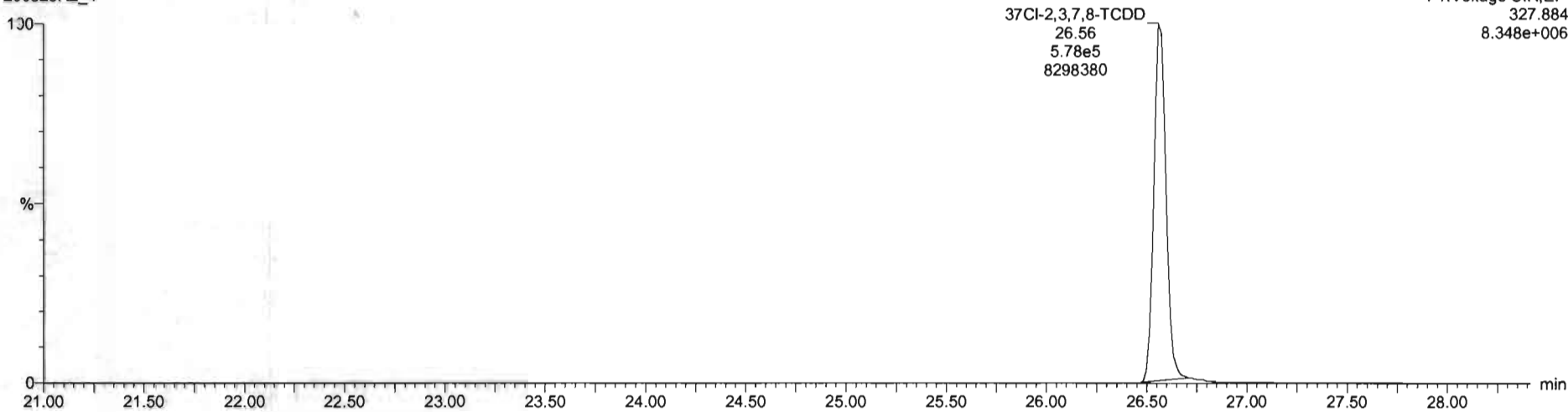
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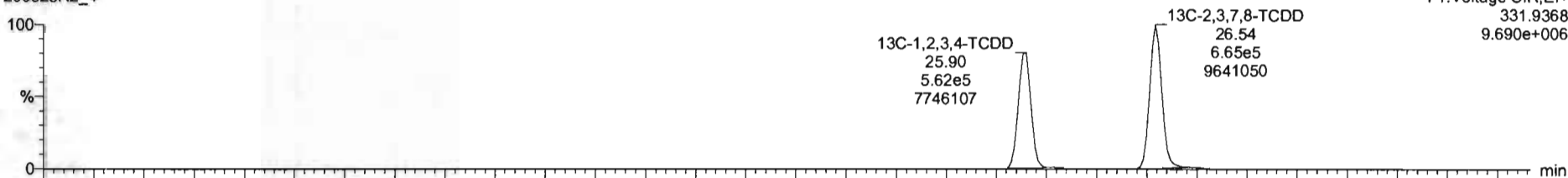
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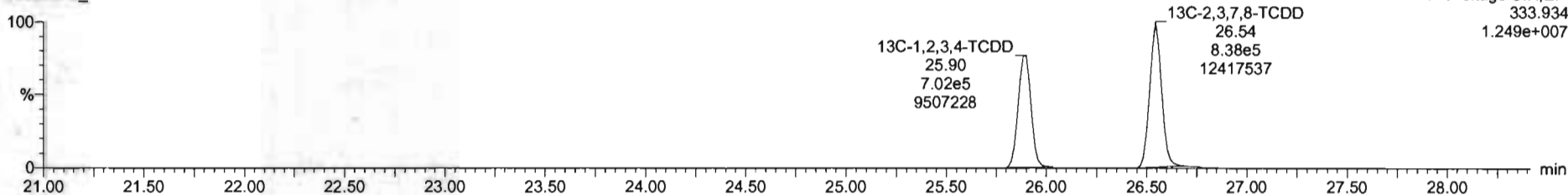


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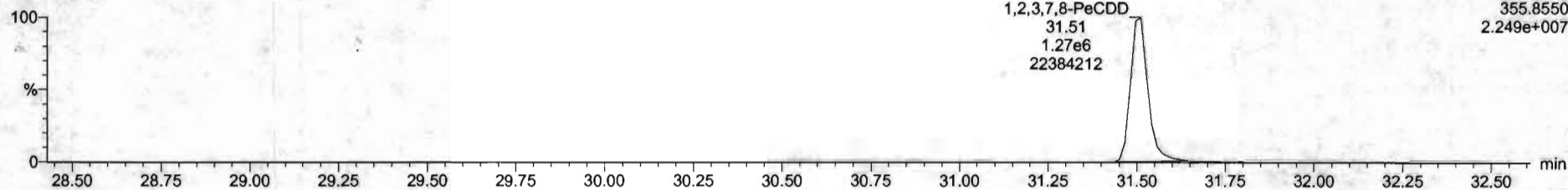
1,2,3,7,8-PeCDD

200528R2_4



F2:Voltage SIR,EI+
353.8576
1.439e+007

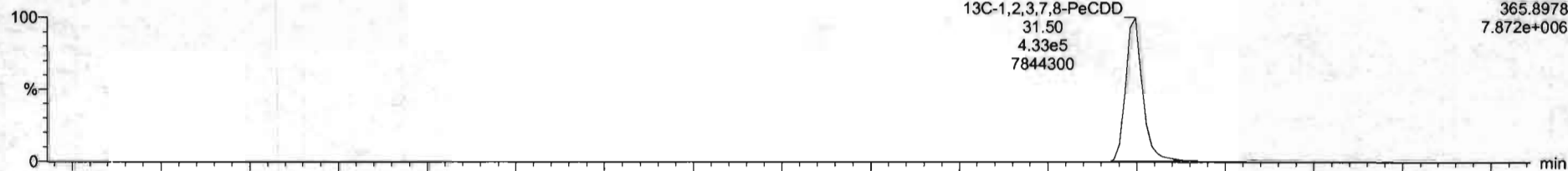
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F2:Voltage SIR,EI+
355.8550
2.249e+007

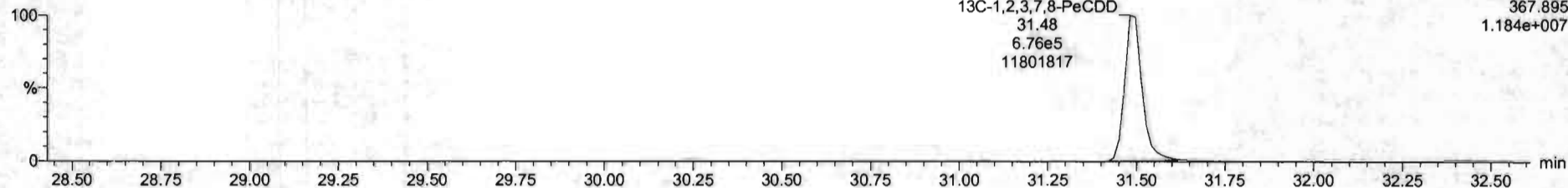
13C-1,2,3,7,8-PeCDD

200528R2_4



F2:Voltage SIR,EI+
365.8978
7.872e+006

200528R2_4



F2:Voltage SIR,EI+
367.895
1.184e+007

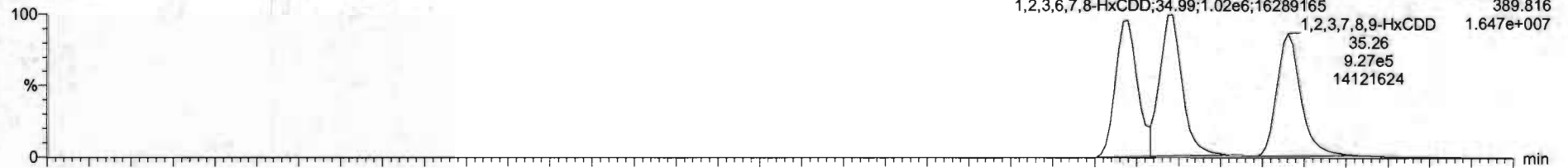
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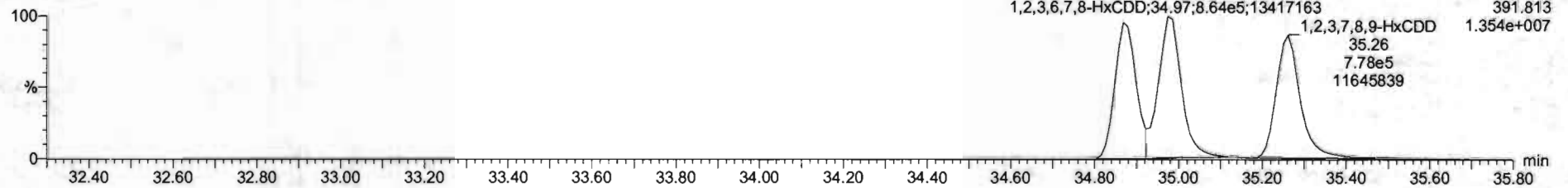
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1,2,3,4,7,8-HxCDD

200528R2_4

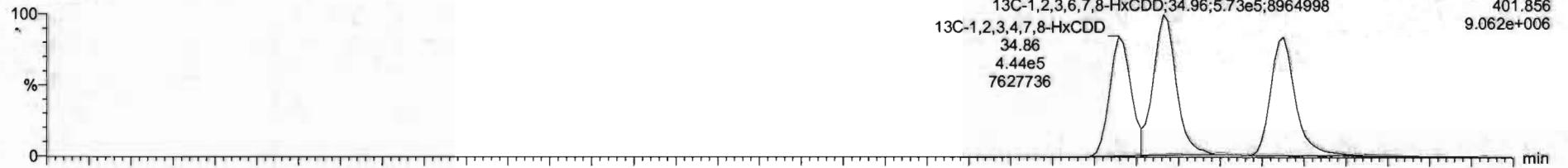


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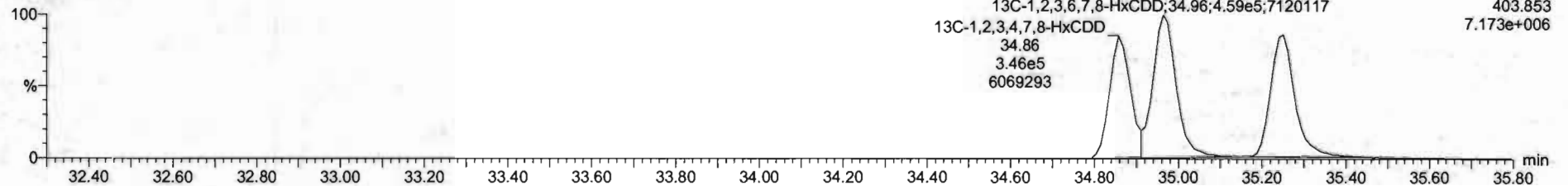


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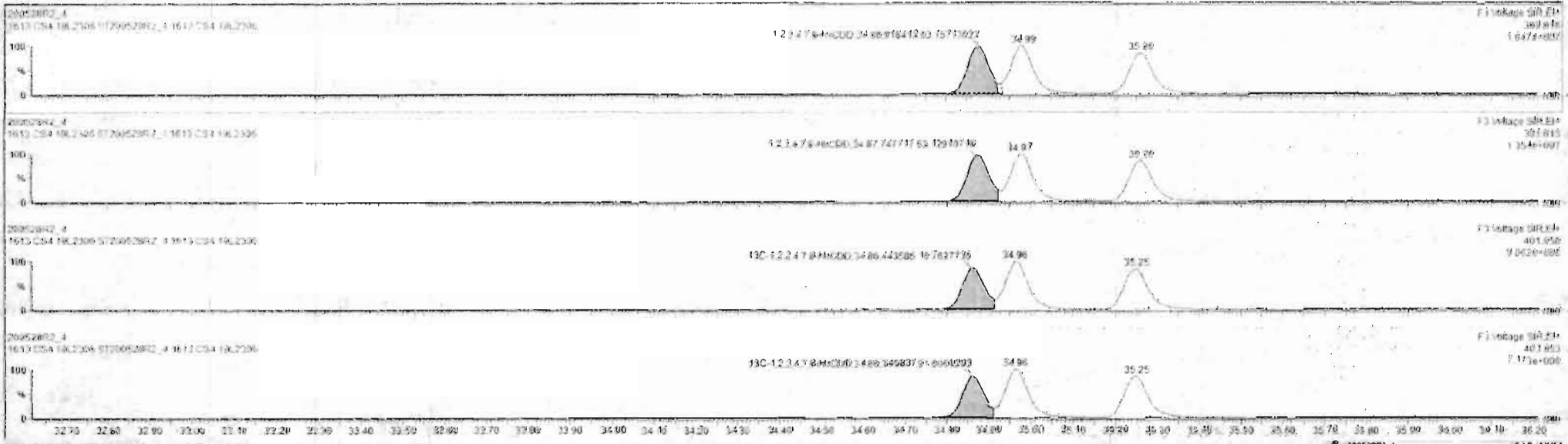


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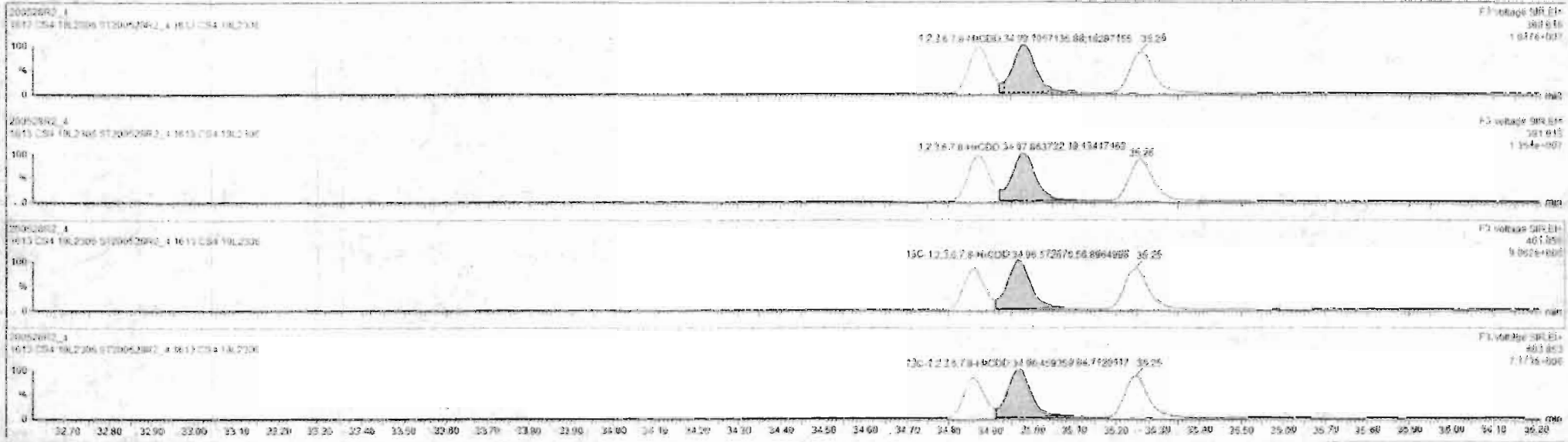


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2	1.2.3.7.8-HxCDD	2.25e6	0.83	NO	0.6091	1.000	31.51	1.000	205	102	0.0837	205
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0394	1.000	34.86	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8921	1.000	34.98	1.001	200	104	0.111	200
5	1.2.3.7.8.9-HxCDD	1.70e6	1.26	NO	0.8865	1.000	35.25	1.000	210	105	0.113	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.6839	1.000	36.80	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.27	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	1.2.3.6-TCDF	6.52e6	0.76	NO	0.7019	1.000	25.88	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	28.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	3.50e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.223	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8812	1.000	33.12	1.001	206	103	0.203	206
13	2.3.4.6.7.8-HxCDF	2.96e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.26	NO	0.8701	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8065	1.000	41.96	1.000	402	100	0.171	402
18	13C-1.2.3.7.8-TCDD	1.58e6	0.79	NO	1.1563	1.000	26.64	1.025	103	103	0.164	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.84	NO	0.8489	1.000	31.58	1.216	103	103	0.138	
20	13C-1.2.3.4.7.8-HxCDD	7.89e6	1.28	NO	0.7736	1.000	34.96	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.07e6	1.25	NO	1.0127	1.000	34.96	1.017	104	104	0.121	

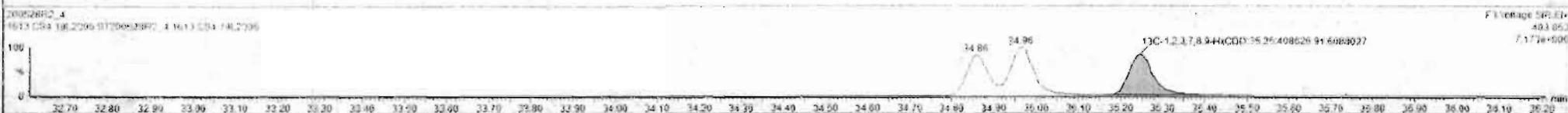


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#	Name	Keep	RA	dy	RFI	width	RT	RRT	Conc	Wt%	DL	EMPU
1	1.2.3.7.8-TCDF	1.50e6	0.75	NO	0.0061	1.000	36.96	1.001	41.2	101	0.124	41.1
2	1.2.3.7.8-HxCDD	2.56e6	0.81	NO	0.0061	1.000	31.51	1.000	205	102	0.0017	204
3	1.2.3.7.8-HxCDF	1.87e6	1.23	NO	1.0714	1.000	34.80	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.0020	1.000	34.96	1.001	394	104	0.119	395
5	1.2.3.7.8-HxCDF	1.19e6	1.20	NO	0.0065	1.000	35.26	1.000	210	102	0.133	210
6	1.2.3.4.6.7.8-HxCDD	1.25e6	1.02	NO	0.0033	1.000	36.60	1.000	211	104	0.219	211
7	OCDD	2.45e6	0.97	NO	0.0136	1.000	41.77	1.000	307	99.4	0.192	307
8	1.2.3.7.8-TCDF	4.12e6	0.76	NO	0.0140	1.000	25.88	1.001	42.0	107	0.123	42.0
9	1.2.3.7.8-HxCDF	1.19e6	1.14	NO	0.0025	1.000	30.23	1.000	203	101	0.100	203
10	1.2.3.4.7.8-HxCDF	1.08e6	1.14	NO	0.0346	1.000	31.21	1.000	204	102	0.169	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.0041	1.000	33.99	1.000	200	104	0.221	200
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.0092	1.000	34.12	1.001	206	103	0.203	206
13	1.2.3.4.6.7.8-HxCDF	2.68e6	1.19	NO	0.0041	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8-HxCDF	1.68e6	1.20	NO	0.0007	1.000	35.62	1.001	208	104	0.215	208
15	1.2.3.4.6.7.8-HxCDF	1.43e6	0.99	NO	0.0034	1.000	37.59	1.000	213	106	0.213	213
16	1.2.3.4.7.8-HxCDF	1.13e6	0.90	NO	1.0120	1.000	30.33	1.000	214	107	0.227	214
17	OCDF	2.34e6	0.97	NO	0.0254	1.000	41.96	1.000	400	100	0.171	400
18	1.2.3.7.8-TCDD	1.19e6	0.79	NO	1.1563	1.000	26.94	1.000	163	103	0.114	163
19	1.2.3.7.8-HxCDF	1.11e6	0.84	NO	0.0460	1.000	31.00	1.210	103	103	0.176	103
20	1.2.3.4.7.8-HxCDD	7.39e6	1.25	NO	0.7790	1.000	34.06	1.014	103	103	0.172	103
21	1.2.3.4.7.8-HxCDD	1.02e6	1.25	NO	1.0107	1.000	34.96	1.017	104	104	0.171	104



#	Name	Resp	RA	ny	RRF	wlvol	RT	RRT	Coef	%Rec	DL	104PC
1	1,2,3,7,8-TCDF	1.56e6	0.76	NO	0.8863	1.000	26.56	1.091	41.7	102	0.124	41.4
2	1,2,3,7,8-PeCDD	2.36e6	0.43	NO	0.8051	1.000	31.51	1.000	205	102	0.0837	205
3	1,2,3,4,7,8-HxCDF	1.67e6	1.22	NO	1.0334	1.000	34.55	1.001	204	102	0.115	204
4	1,2,3,6,7,8-HxCDF	1.92e6	1.22	NO	0.9923	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.70e6	1.20	NO	0.6868	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDE	1.25e6	1.62	NO	0.8830	1.000	38.50	1.000	211	105	0.123	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.100	397
8	1,2,3,6-TCDF	6.53e6	0.76	NO	0.7510	1.000	25.68	1.001	42.0	101	0.123	42.0
9	1,2,3,7-HxCDF	2.84e6	1.54	NO	0.8920	1.000	30.21	1.000	207	101	0.119	207
10	1,2,3,7,8-HpCDF	2.06e6	1.54	NO	0.9345	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.67e6	1.16	NO	0.8845	1.000	33.95	1.000	202	104	0.221	202
12	1,2,3,6,7,8-HxCDF	2.16e6	1.10	NO	0.8292	1.000	34.12	1.001	206	103	0.203	206
13	1,2,3,6,7,8-HpCDF	2.00e6	1.19	NO	0.9241	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.20	NO	0.8157	1.000	35.42	1.001	203	104	0.313	203
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	3.54e6	0.57	NO	0.8095	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8-TCDF	1.56e6	0.75	NO	1.1583	1.000	28.54	1.025	103	103	0.164	
19	1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.139	
20	1,2,3,4,7,8-HxCDE	7.89e6	1.28	NO	0.7798	1.000	34.96	1.014	103	103	0.172	
21	1,2,3,4,6,7,8-HpCDD	1.03e6	1.35	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



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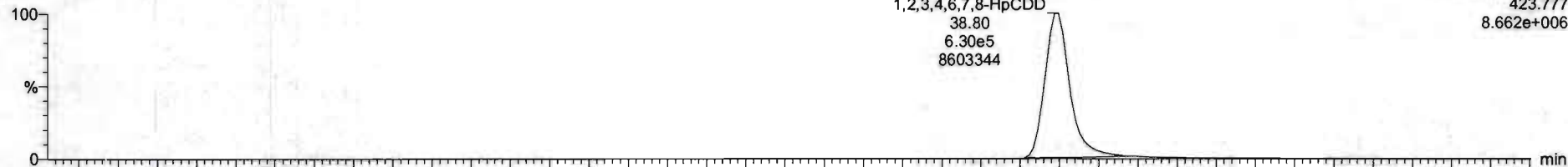
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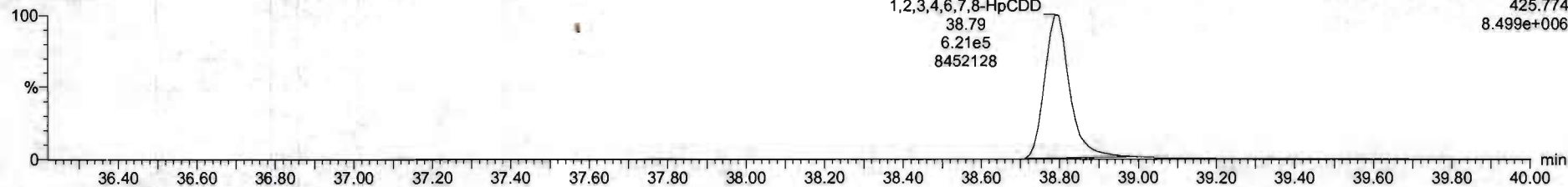
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1,2,3,4,6,7,8-HpCDD

200528R2_4

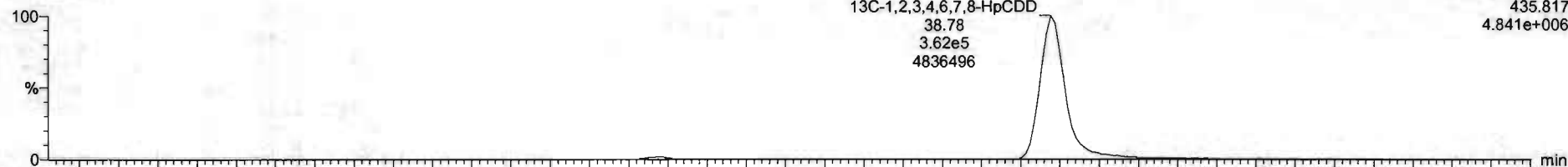


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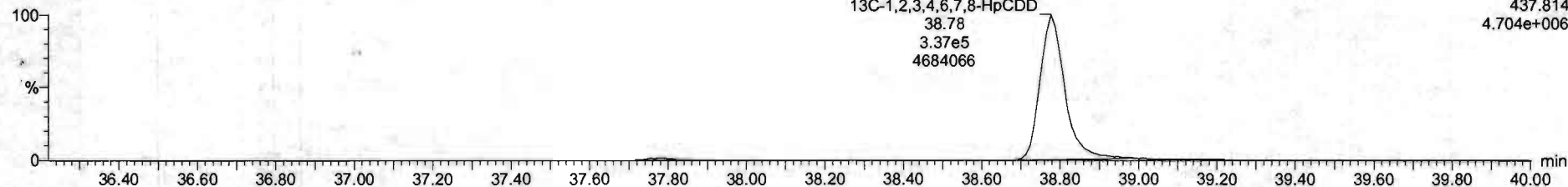


13C-1,2,3,4,6,7,8-HpCDD

200528R2_4



200528R2_4



#	Name	Resp	RA	n/y	RRF	IntVal	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.50e6	0.76	NO	0.8983	1.000	26.96	1.001	41.2	103	0.124	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.83	NO	0.8081	1.000	31.51	1.000	205	102	0.6837	205
3	1,2,3,4,7,8-HxCDD	1.67e6	1.23	NO	1.0334	1.000	34.80	1.001	204	102	0.115	204
4	1,2,3,6,7,8-HxCDD	1.92e6	1.22	NO	0.8927	1.000	34.99	1.001	209	104	0.111	209
5	1,2,3,7,8,9-HxCDD	1.76e6	1.26	NO	0.8665	1.000	35.25	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HpCDD	1.25e6	1.02	NO	0.8839	1.000	36.80	1.000	211	105	0.210	211
7	CDDX	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.192	397
8	2,3,7,8-TCDF	6.52e6	0.76	NO	0.7510	1.000	26.68	1.001	42.0	107	0.123	42.0
9	1,2,3,7,8-HxCDF	3.94e6	1.54	NO	0.8926	1.000	36.21	1.000	203	101	0.118	203
10	1,2,3,4,7,8-PeCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.16	NO	0.8845	1.000	33.99	1.000	208	104	0.221	208
12	1,2,3,6,7,8-HxCDF	2.16e6	1.16	NO	0.8862	1.000	34.12	1.001	208	103	0.203	208
13	1,2,3,4,7,8,9-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	103	0.219	207
14	1,2,3,7,8,9-HxCDF	1.60e6	1.26	NO	0.8787	1.000	35.62	1.001	208	104	0.313	208
15	1,2,3,4,6,7,8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.39	1.000	213	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	38.32	1.000	214	107	0.227	214
17	CDFX	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	1,2,3,7,8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	103	103	0.164	
19	1,2,3,4,6,7,8-HpCDF	1.11e6	0.84	NO	0.8490	1.000	31.30	1.216	103	103	0.139	
20	1,2,3,4,7,8,9-HpCDF	7.98e6	1.28	NO	0.7790	1.000	34.86	1.014	103	103	0.172	
21	1,2,3,4,6,7,8,9-HpCDF	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.131	



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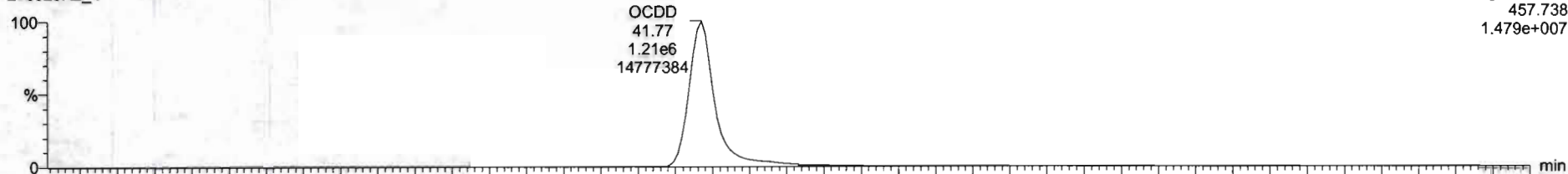
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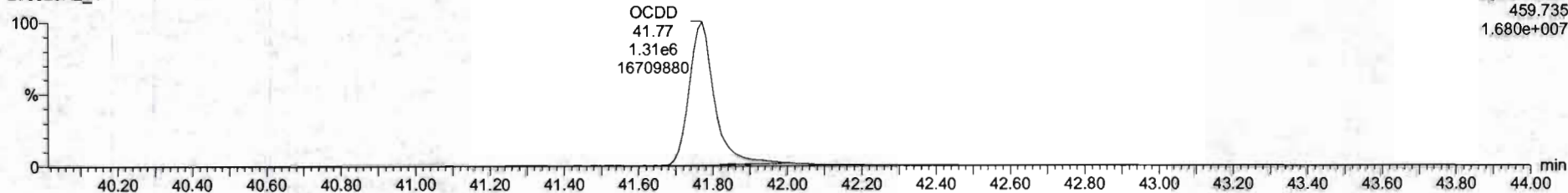
OCDD

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1.479e+007

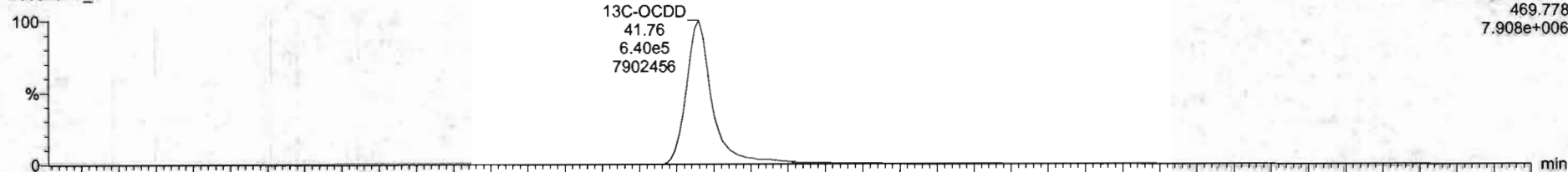
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F5: Voltage SIR, EI+
459.735
1.680e+007

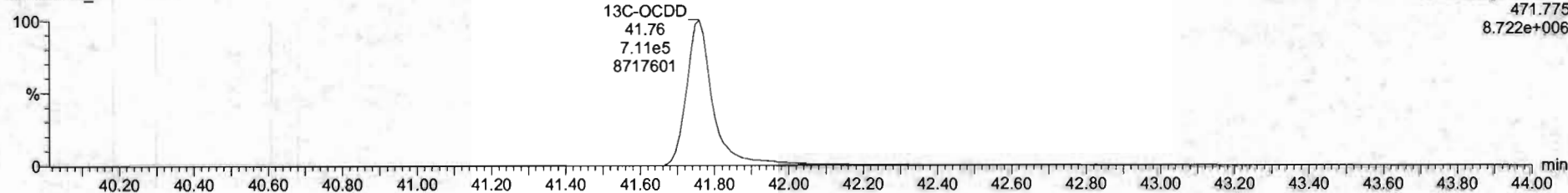
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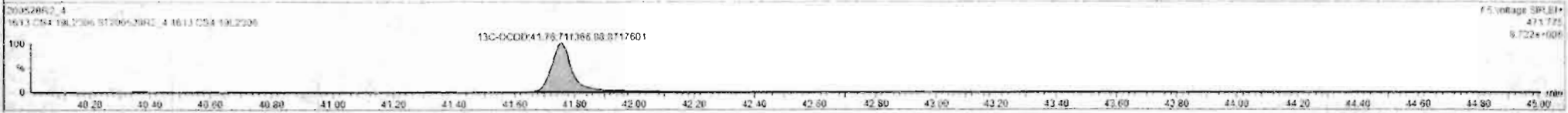
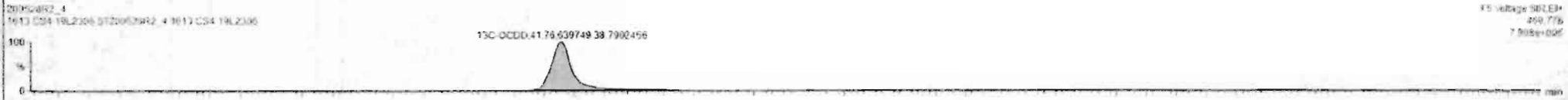
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469.778
7.908e+006

200528R2_4



F5: Voltage SIR, EI+
471.775
8.722e+006

Sl. No.	Name	Resp	RA	inj	RRF	wt/vol	RT	NRT	Conc.	%Rec	DL	SIIPC
1	2.3.7.8-TCDD	3.56e5	0.76	NO	0.8883	1.000	28.56	1.001	41.2	101	0.134	41.2
2	1.2.3.7.8-PeCDD	2.06e6	0.63	NO	0.9051	1.000	31.01	1.000	205	102	0.6837	205
3	1.2.3.4.7.8-HxCD	1.07e6	1.23	NO	1.0334	1.000	34.80	1.001	284	102	0.115	284
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8923	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.70e6	1.20	NO	0.8869	1.000	35.26	1.000	210	105	0.133	210
6	1.2.3.4.7.8.9-HpCDD	1.25e6	1.02	NO	0.8839	1.000	36.90	1.000	211	105	0.115	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	307	99.4	0.192	307
8	2.3.7.8-TCDF	6.52e5	0.76	NO	0.7510	1.000	28.56	1.001	42.8	107	0.123	42.8
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.9905	1.000	30.23	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	1.00e6	1.54	NO	0.9348	1.000	31.21	1.000	204	102	0.100	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8545	1.000	33.99	1.000	205	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8862	1.000	34.12	1.001	206	103	0.205	206
13	1.2.3.4.7.8-HxCDF	2.00e6	1.19	NO	0.9383	1.000	34.71	1.001	207	103	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.313	208
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8734	1.000	37.55	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.90	NO	1.0126	1.000	39.33	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2.3.7.8-TCDD	1.58e6	0.79	NO	1.1583	1.000	28.54	1.025	103	103	0.184	
19	13C-1.2.3.7.8-PeCDD	1.11e6	0.64	NO	0.8490	1.000	31.50	1.216	103	103	0.136	
20	13C-1.2.3.4.7.8-HxCDD	7.88e5	1.28	NO	0.7790	1.000	34.96	1.014	103	103	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.131	



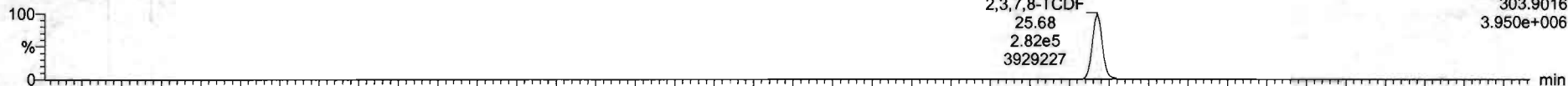
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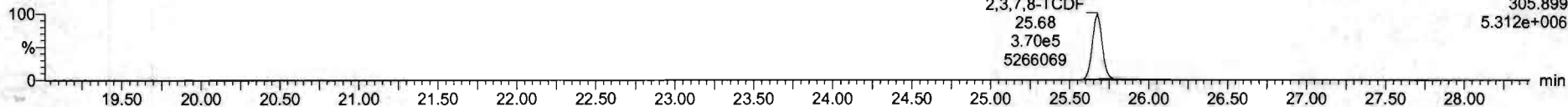
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2,3,7,8-TCDF

200528R2_4

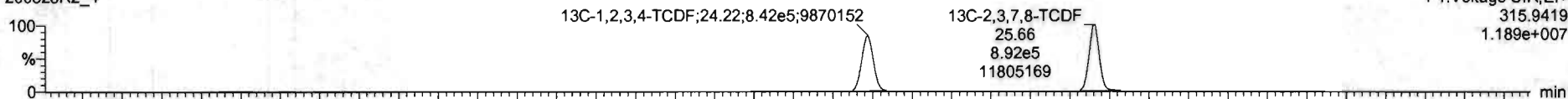


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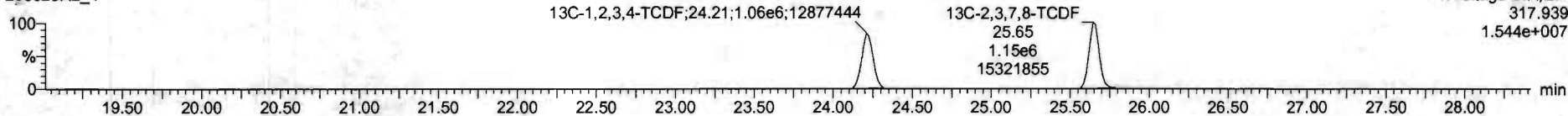


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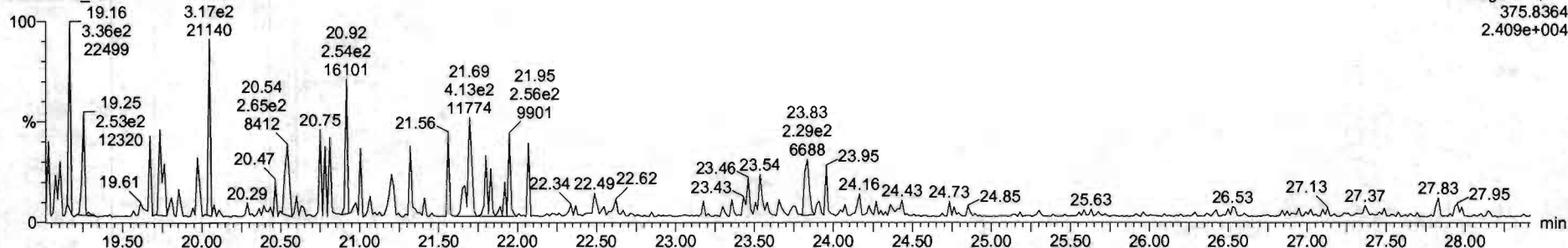


200528R2_4



DPE1

200528R2_4

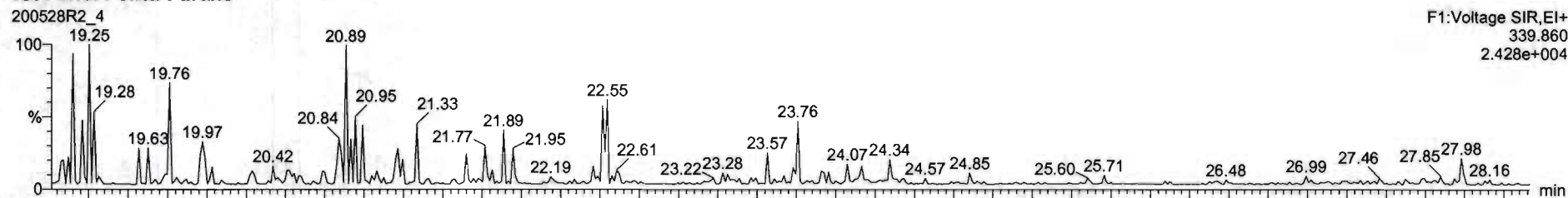


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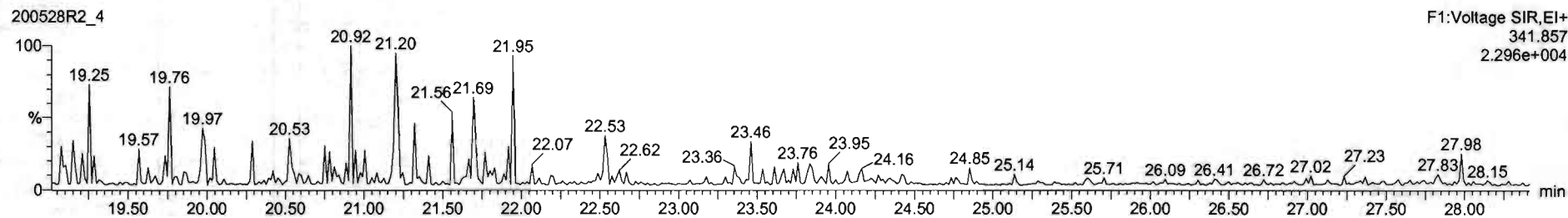
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1st Func. Penta-Furans

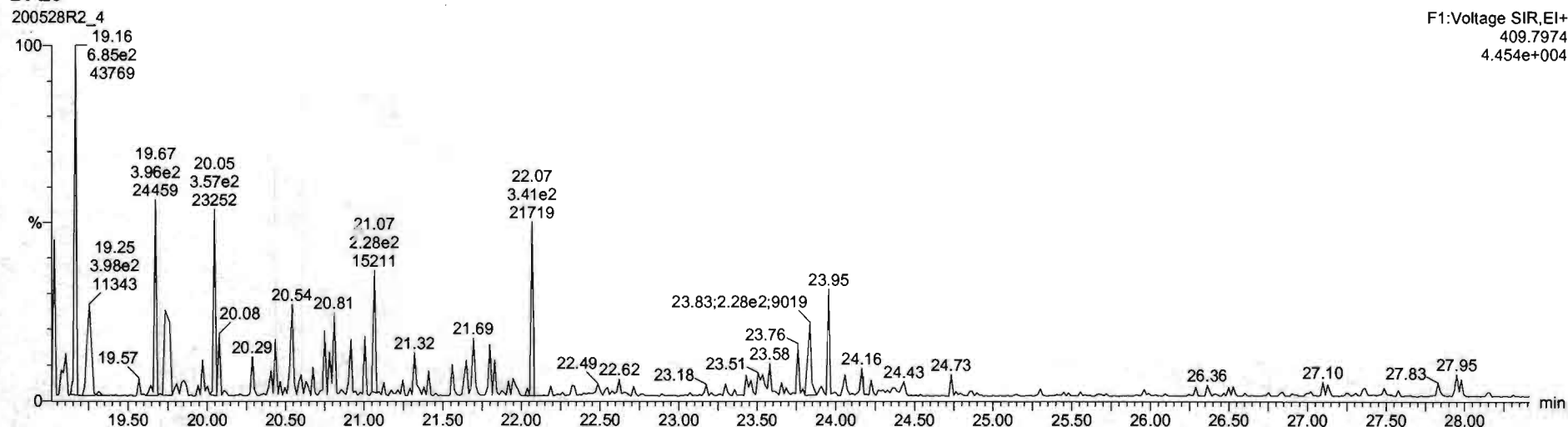


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339.860
2.428e+004



F1:Voltage SIR,EI+
341.857
2.296e+004

DPE6



F1:Voltage SIR,EI+
409.7974
4.454e+004

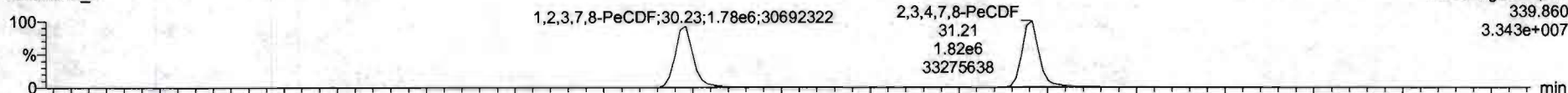
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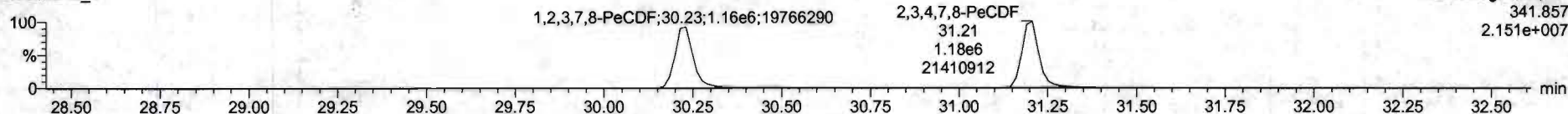
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1,2,3,7,8-PeCDF

200528R2_4

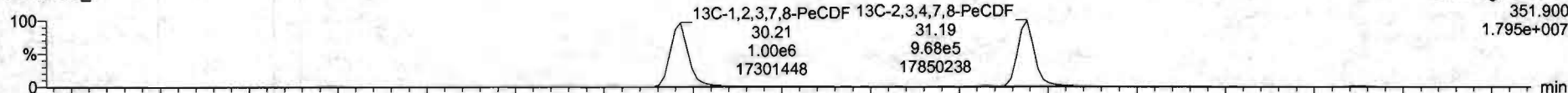


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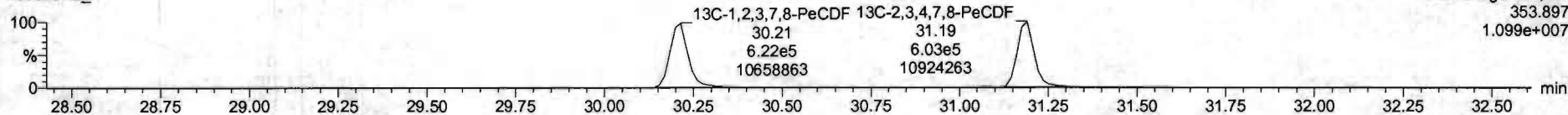


13C-1,2,3,7,8-PeCDF

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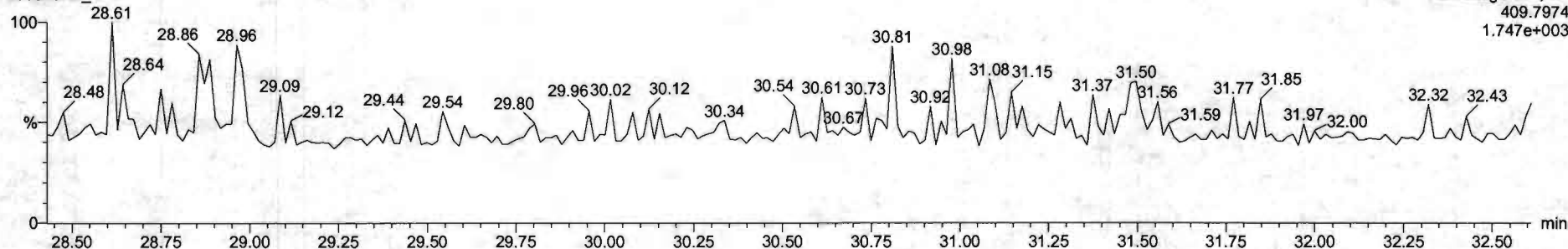


200528R2_4



DPE2

200528R2_4



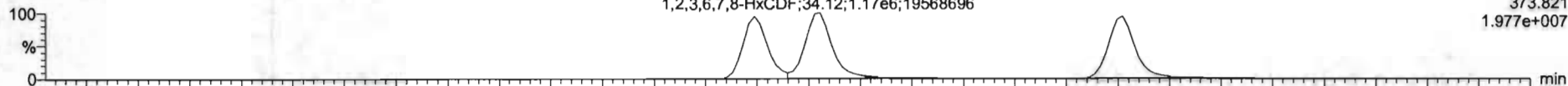
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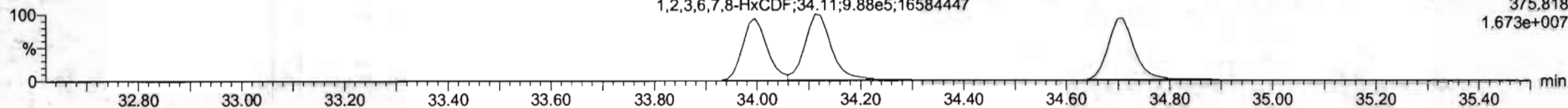
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1,2,3,4,7,8-HxCDF

200528R2_4

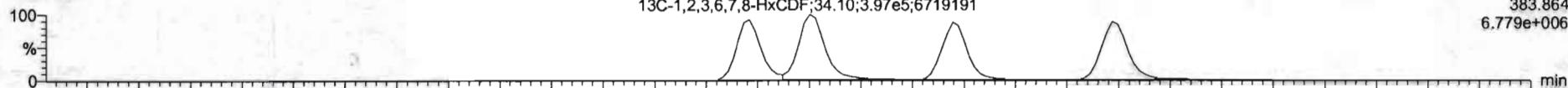


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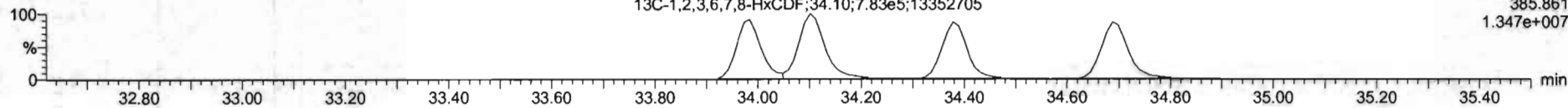


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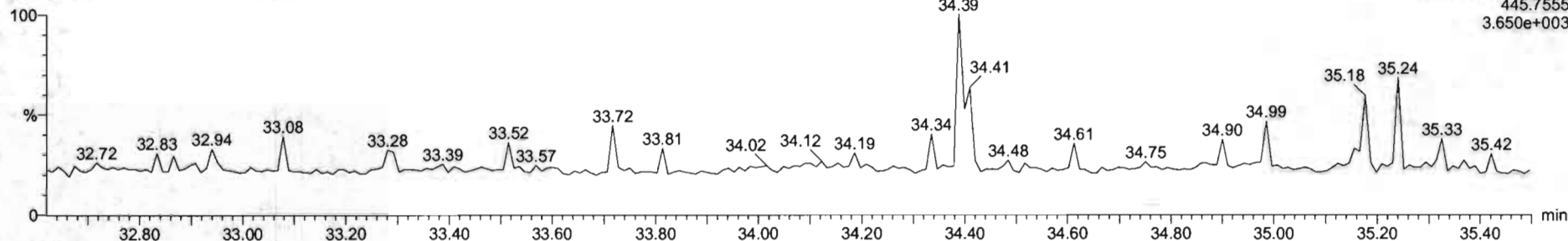


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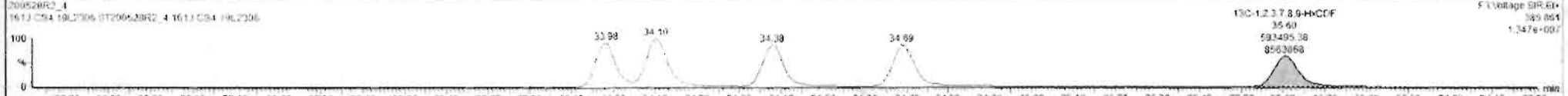
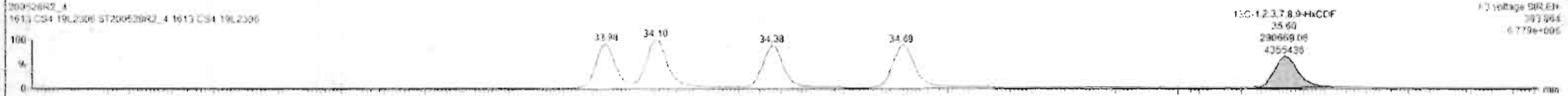
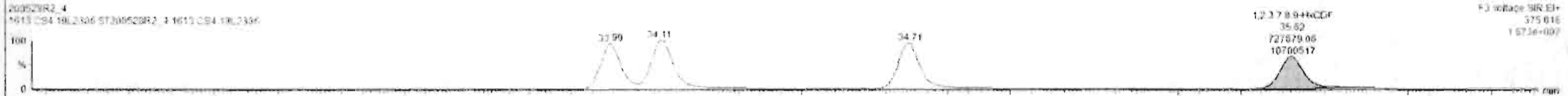


DPE3

200528R2_4



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1	1.2.3.7.8-TCDD	3.56e5	0.78	NO	0.2882	1.000	26.96	1.001	41.2	103	0.124	11.2
2	1.2.3.7.8-HxCDD	2.06e6	0.83	NO	0.9081	1.000	31.91	1.000	285	100	0.0837	209
3	1.2.3.4.7.8-HxCDD	1.67e6	1.23	NO	1.0324	1.000	34.88	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.8523	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.8.9-HxCDD	1.78e6	1.20	NO	0.8865	1.000	35.26	1.000	240	105	0.133	240
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.8639	1.000	36.86	1.000	211	106	0.128	211
7	OCDD	2.45e6	0.57	NO	0.9136	1.000	41.27	1.000	387	99.4	0.182	307
8	1.2.3.7.8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.68	1.001	42.6	107	0.123	42.6
9	1.2.3.7.8-HxCDF	2.94e6	1.54	NO	0.8925	1.000	30.23	1.000	283	101	0.118	283
10	1.2.3.4.7.8-HxCDF	3.06e6	1.54	NO	0.9348	1.000	31.21	1.000	204	105	0.199	204
11	1.2.3.4.7.8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.95	1.000	268	104	0.221	268
12	1.2.3.6.7.8-HxCDF	2.16e6	1.10	NO	0.8892	1.000	34.12	1.001	200	103	0.200	200
13	1.2.3.4.6.7.8-HxCDF	2.00e6	1.19	NO	0.9341	1.000	34.71	1.001	207	102	0.219	207
14	1.2.3.7.8.9-HxCDF	1.60e6	1.28	NO	0.8787	1.000	35.62	1.001	290	104	0.313	288
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.99	NO	0.8714	1.000	37.39	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.98	NO	1.0128	1.000	38.32	1.000	214	107	0.221	214
17	OCDF	2.54e6	0.67	NO	0.8085	1.000	41.96	1.000	403	100	0.178	402
18	13C-1.2.3.7.8-TCDD	1.50e6	0.75	NO	1.1563	1.000	26.54	1.026	103	101	0.194	
19	13C-1.2.3.7.8-HxCDD	1.11e6	0.64	NO	0.8468	1.000	31.90	1.216	193	103	0.130	
20	13C-1.2.3.4.7.8-HxCDD	7.09e5	1.28	NO	0.7790	1.000	34.86	1.014	103	102	0.172	
21	13C-1.2.3.6.7.8-HxCDD	1.03e6	1.25	NO	1.0187	1.000	34.98	1.013	104	104	0.124	



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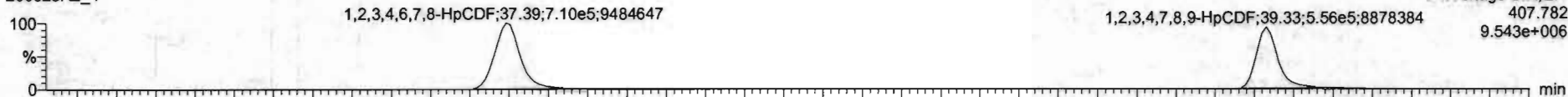
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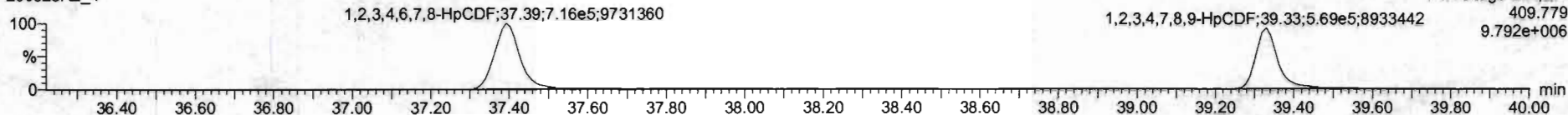
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1,2,3,4,6,7,8-HpCDF

200528R2_4

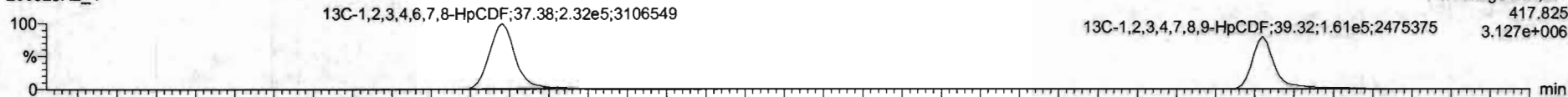


200528R2_4

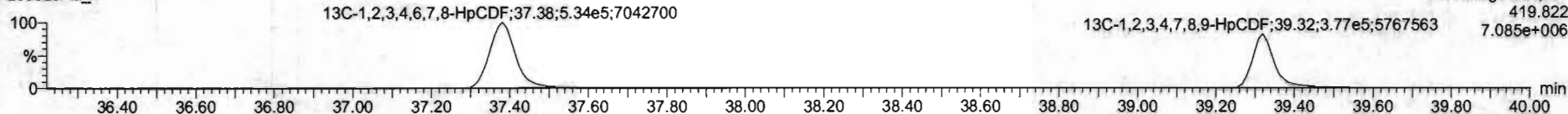


13C-1,2,3,4,6,7,8-HpCDF

200528R2_4

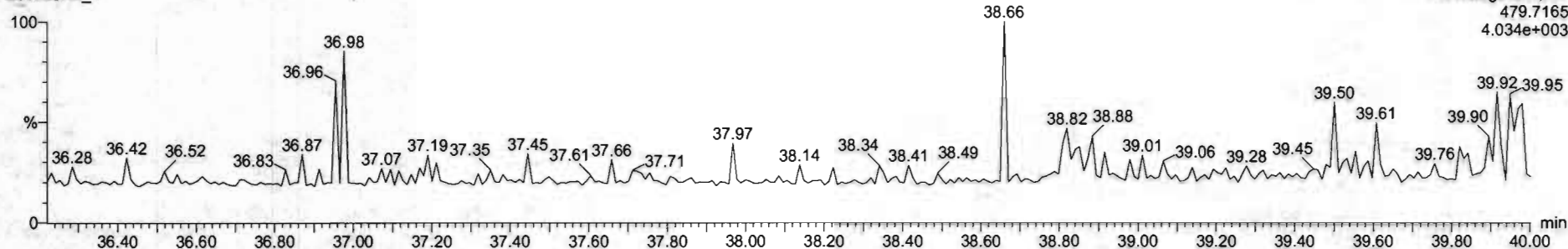


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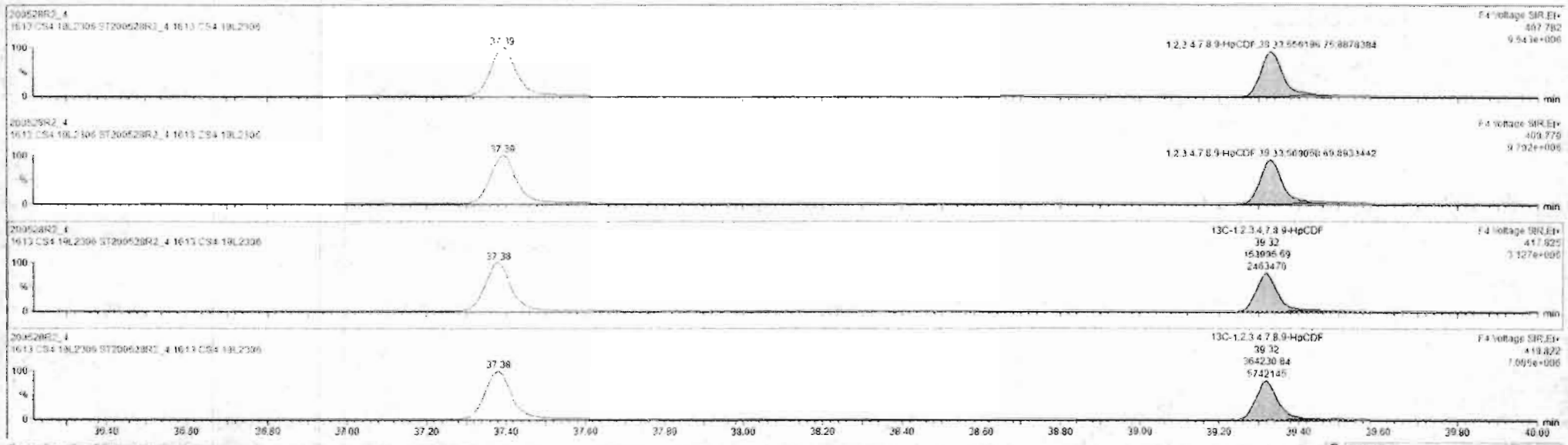


DPE4

200528R2_4



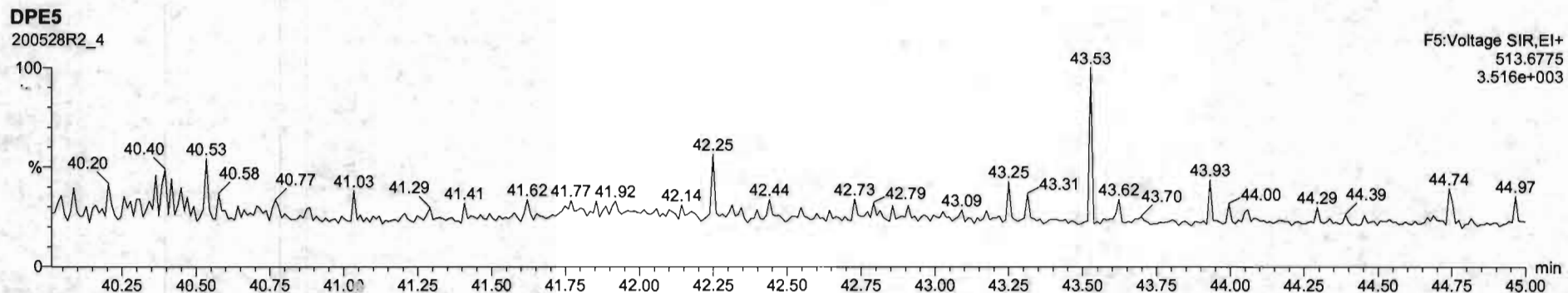
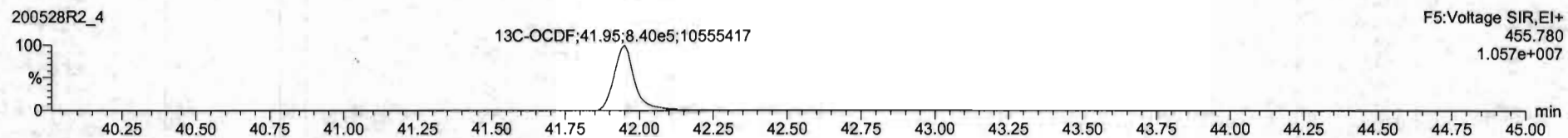
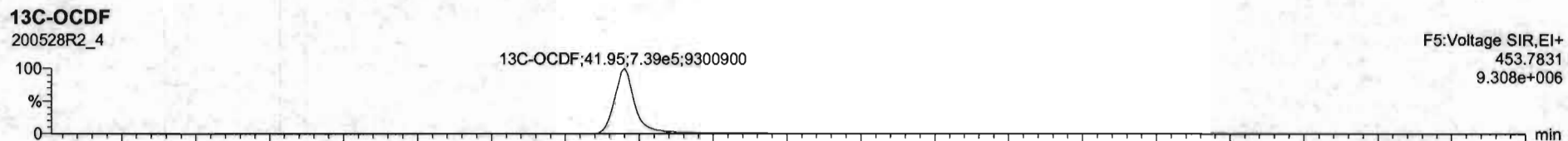
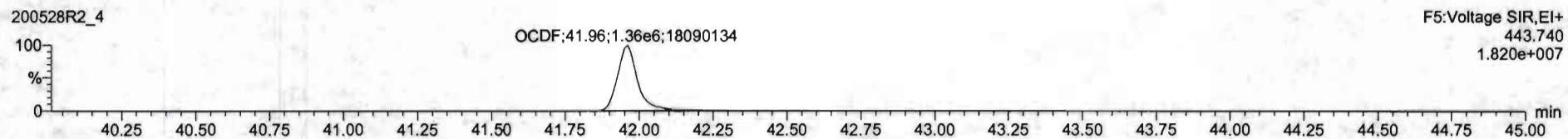
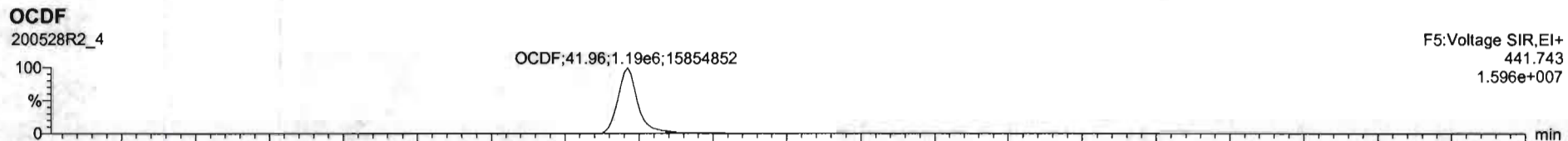
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1	2,3,7,8-TCDD	5.56e5	0.78	NO	0.8583	1.000	26.56	1.001	41.3	103	0.134	41.2
2	1,2,3,7,8-PeCDD	2.06e6	0.63	NO	0.9081	1.000	31.51	1.000	205	102	0.6837	205
3	1,2,3,4,7,8-HxCDD	1.87e6	1.23	NO	1.0334	1.000	34.86	1.001	204	102	0.115	204
4	1,2,3,8,7,8-HxCDD	1.82e6	1.22	NO	0.8521	1.000	34.90	1.001	200	104	0.111	200
5	1,2,3,7,9,8-HxCDD	1.70e6	1.20	NO	0.8969	1.000	35.26	1.000	210	105	0.133	210
6	1,2,3,4,6,7,8-HxCDD	1.25e6	1.02	NO	0.8631	1.000	36.90	1.000	211	105	0.219	211
7	OCDD	2.45e8	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.190	397
8	2,3,7,8-TCDF	6.52e5	0.76	NO	0.7510	1.000	25.66	1.001	42.6	107	0.123	42.2
9	1,2,3,7,8-PeCDF	2.54e6	1.54	NO	0.8925	1.000	30.23	1.000	203	101	0.110	203
10	1,2,3,4,7,8-HxCDF	3.00e6	1.54	NO	0.9341	1.000	31.21	1.000	204	107	0.109	204
11	1,2,3,4,7,8-HxCDF	1.87e6	1.18	NO	0.8845	1.000	33.99	1.000	203	104	0.221	206
12	1,2,3,6,7,8-HxCDF	2.16e6	1.18	NO	0.8867	1.000	34.12	1.001	206	103	0.203	206
13	2,3,4,6,7,8-HxCDF	2.06e6	1.19	NO	0.9341	1.000	34.71	1.001	207	107	0.219	207
14	1,2,3,7,9,8-HxCDF	1.60e6	1.20	NO	0.8707	1.000	35.62	1.001	208	104	0.213	208
15	1,2,3,4,6,7,8-HxCDF	1.43e6	0.95	NO	0.8734	1.000	37.35	1.000	215	106	0.213	213
16	1,2,3,4,7,8,9-HpCDF	1.15e6	0.60	NO	1.0128	1.000	39.33	1.000	214	107	5.327	214
17	OCDF	2.54e8	0.87	NO	0.8085	1.000	41.96	1.000	402	100	0.171	402
18	13C-2,3,7,8-TCDD	1.54e6	0.75	NO	1.1563	1.000	26.54	1.025	103	103	0.164	
19	13C-1,2,3,7,8-PeCDD	1.11e6	0.64	NO	0.8469	1.000	31.50	1.216	103	103	0.138	
20	13C-1,2,3,4,7,8-HxCDD	7.89e5	1.26	NO	0.7790	1.000	34.86	1.014	103	103	0.102	
21	13C-1,2,3,6,7,8-HxCDD	1.03e6	1.25	NO	1.0167	1.000	34.96	1.017	104	104	0.121	



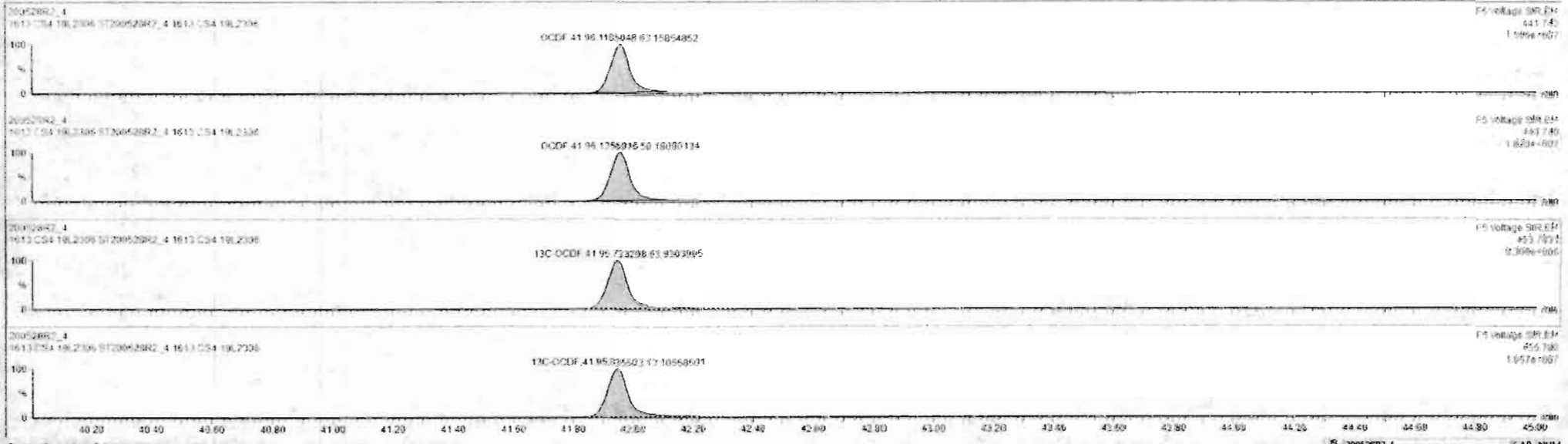
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#	Name	Resp	RA	ntf	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2.3.1.6-TCDD	1.50e5	0.78	NO	0.8863	1.000	26.56	1.001	41.2	101	0.124	41.2
2	1.2.3.7.8-PeCDD	2.06e6	0.83	NO	0.9081	1.000	31.51	1.000	205	102	0.0827	205
3	1.2.3.4.7.8-HxCDD	1.07e6	1.23	NO	1.0334	1.000	34.85	1.001	204	102	0.115	204
4	1.2.3.6.7.8-HxCDD	1.92e6	1.22	NO	0.9521	1.000	34.99	1.001	209	104	0.111	209
5	1.2.3.7.9-HxCDD	1.76e6	1.20	NO	0.9265	1.000	35.26	1.000	210	105	0.123	210
6	1.2.3.4.6.7.8-HpCDD	1.25e6	1.02	NO	0.9633	1.000	36.40	1.000	211	105	0.218	211
7	OCDD	2.45e6	0.87	NO	0.9136	1.000	41.77	1.000	397	99.4	0.102	397
8	2.3.7.8-TCDF	0.52e5	0.76	NO	0.7510	1.000	25.05	1.001	42.0	107	0.127	42.0
9	1.2.3.7.8-PeCDF	2.94e6	1.54	NO	0.8925	1.000	30.21	1.000	203	101	0.118	203
10	1.2.3.4.7.8-HxCDF	2.00e6	1.54	NO	0.9349	1.000	31.21	1.000	204	102	0.109	204
11	1.2.3.4.7.9-HxCDF	1.87e6	1.18	NO	0.8945	1.000	32.99	1.000	208	104	0.221	208
12	1.2.3.6.7.8-HxCDF	2.16e6	1.18	NO	0.8952	1.000	34.12	1.001	206	103	0.203	206
13	2.3.4.6.7.8-HxCDF	2.08e6	1.19	NO	0.9341	1.000	34.21	1.001	207	103	0.219	207
14	1.2.3.7.9-HxCDF	1.60e6	1.20	NO	0.8757	1.000	35.42	1.001	206	104	0.213	206
15	1.2.3.4.6.7.8-HpCDF	1.43e6	0.96	NO	0.8734	1.000	37.35	1.000	213	106	0.213	213
16	1.2.3.4.7.8.9-HpCDF	1.13e6	0.93	NO	1.0120	1.000	39.32	1.000	214	107	0.227	214
17	OCDF	2.54e6	0.87	NO	0.8055	1.000	41.96	1.000	402	100	0.171	402
18	1.2.3.7.8-TCDF	1.56e6	0.79	NO	1.1563	1.000	26.54	1.025	102	101	0.164	
19	1.2.3.4.7.8.9-HpCDD	0.11e6	0.84	NO	0.8496	1.000	31.00	1.210	103	103	0.130	
20	1.2.3.4.7.8-HxCDD	7.89e6	1.20	NO	0.7790	1.000	34.96	1.014	103	103	0.172	
21	1.2.3.4.7.8.9-HpCDF	1.03e6	1.25	NO	1.0187	1.000	34.96	1.017	104	104	0.121	



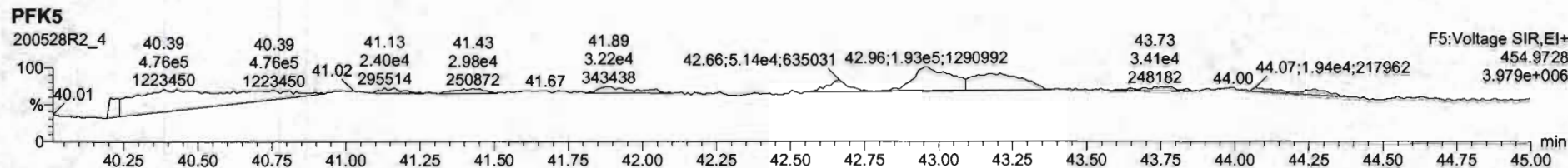
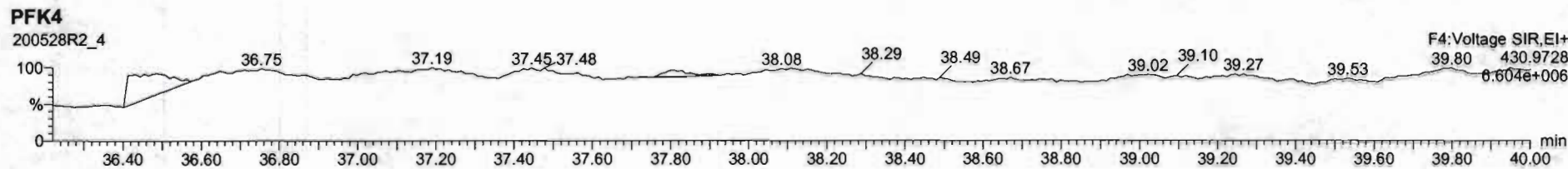
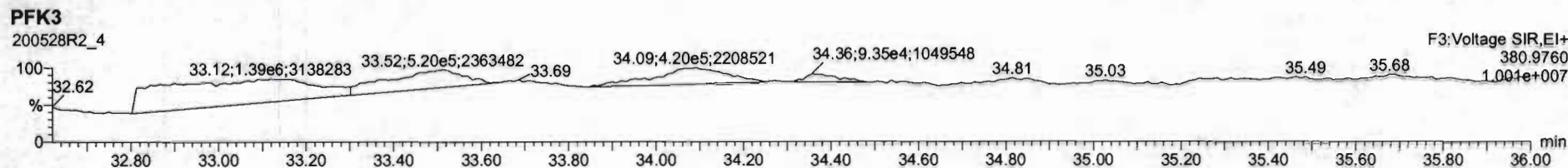
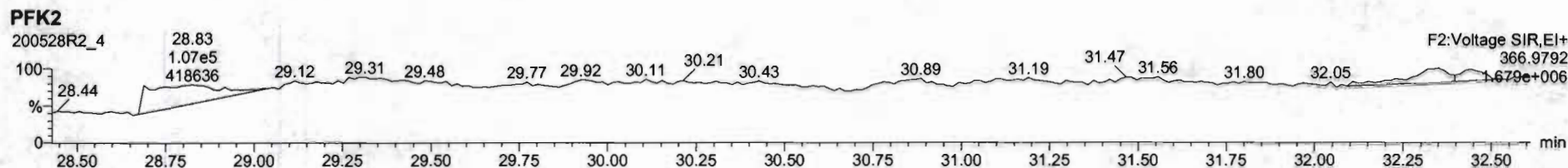
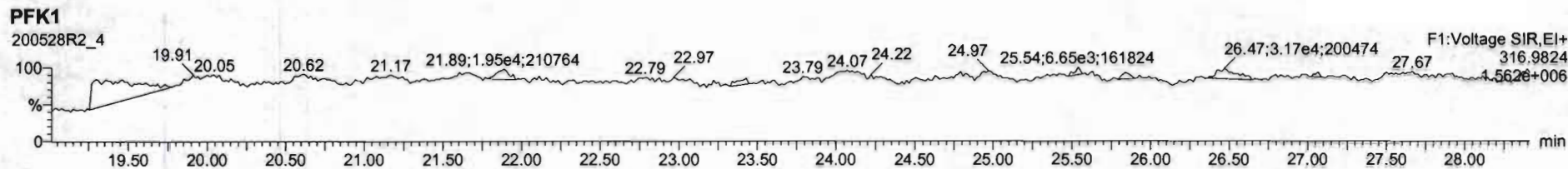
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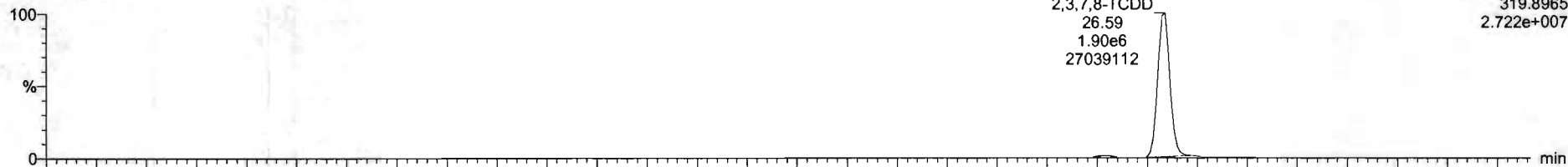
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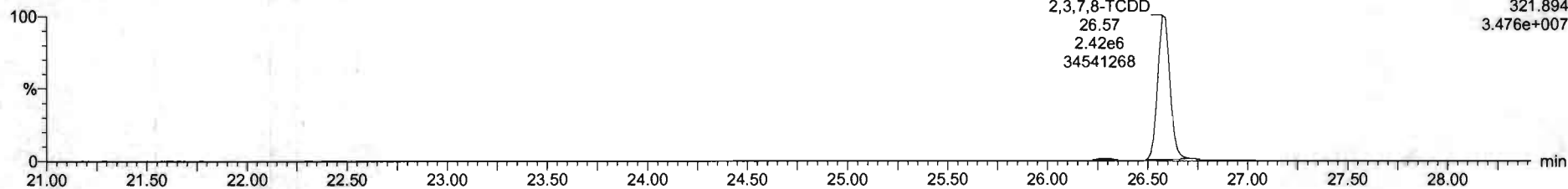
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2,3,7,8-TCDD

200528R2_5

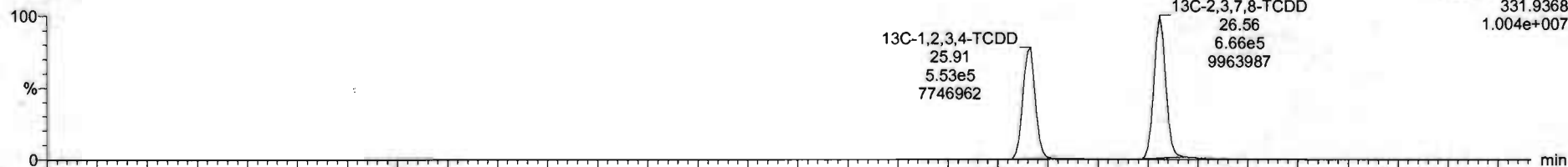


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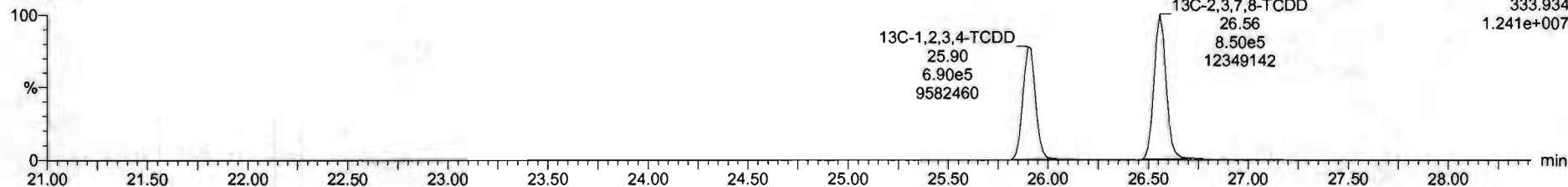


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200528R2_5



200528R2_5



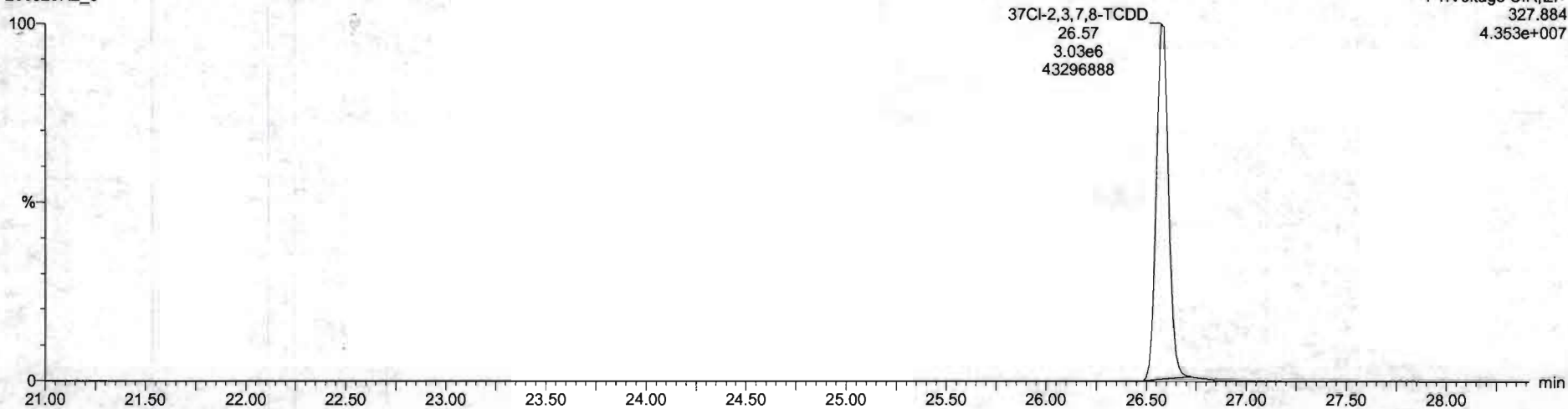
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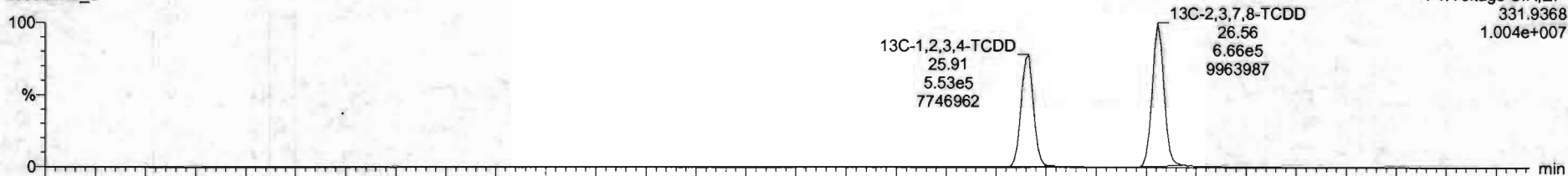
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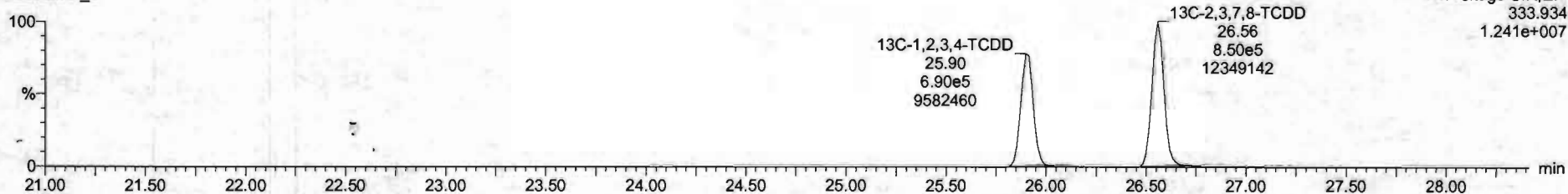


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200528R2_5



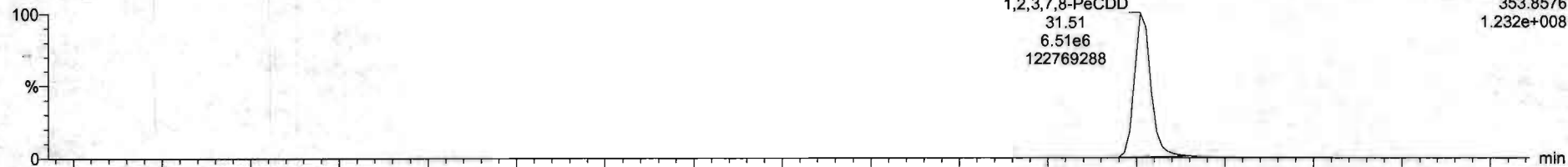
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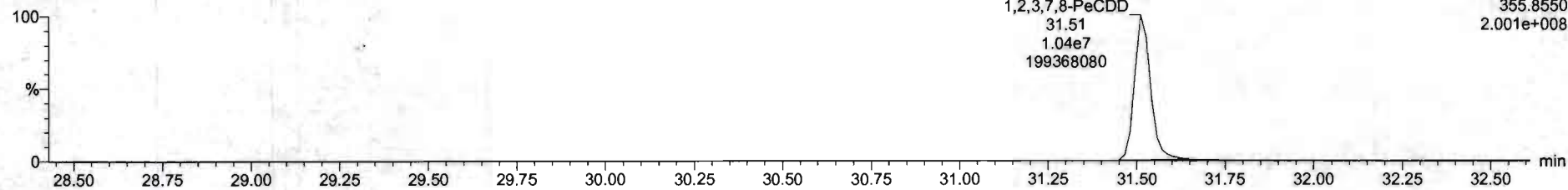
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1,2,3,7,8-PeCDD

200528R2_5

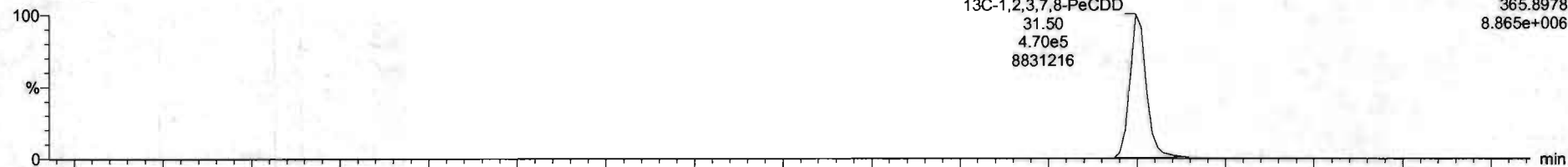


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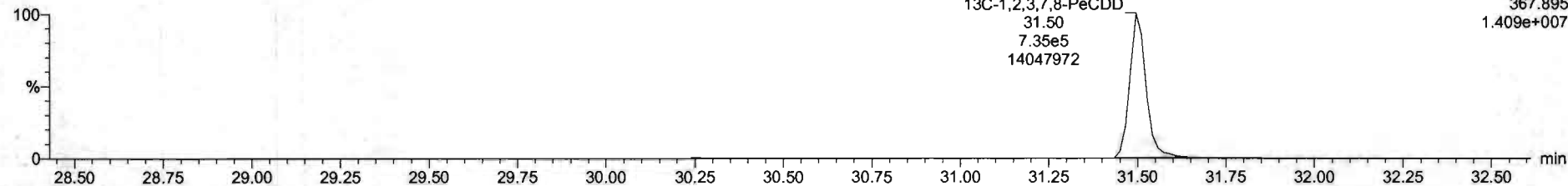


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200528R2_5



200528R2_5



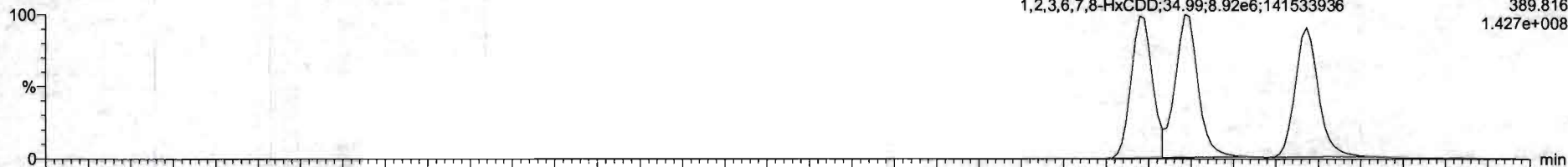
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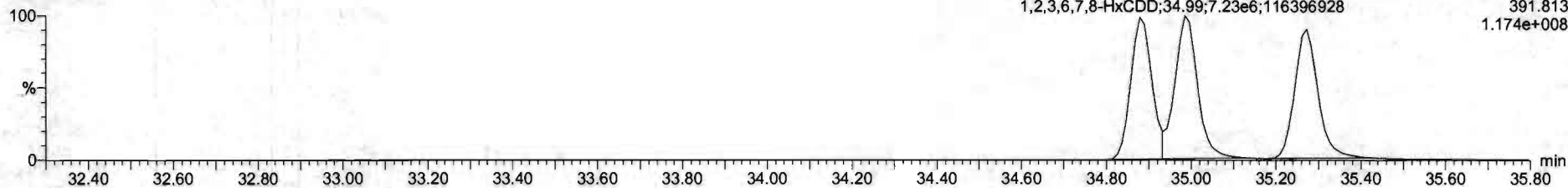
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1,2,3,4,7,8-HxCDD

200528R2_5

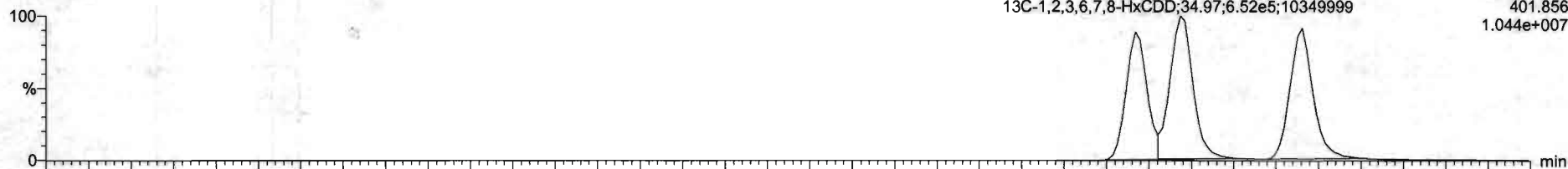


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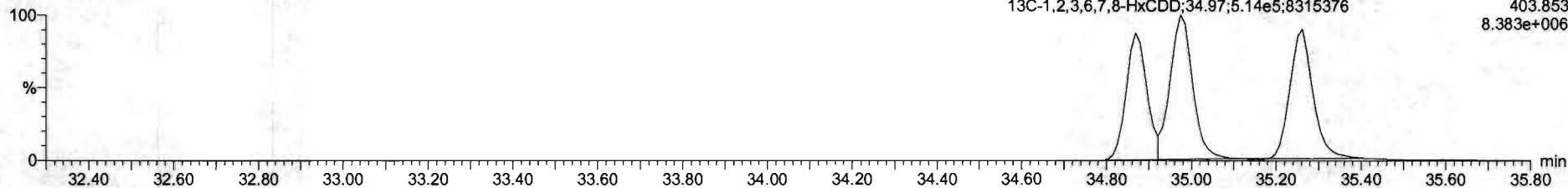


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200528R2_5



200528R2_5



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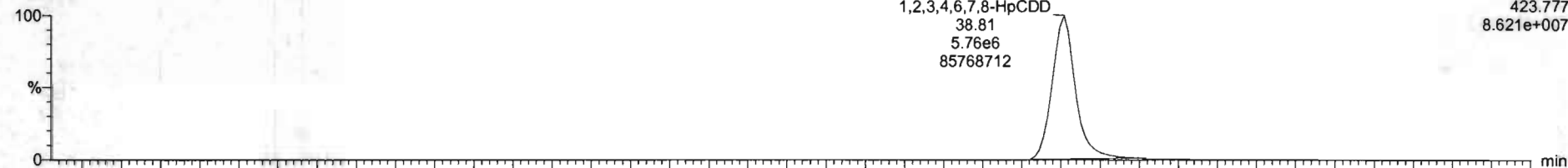
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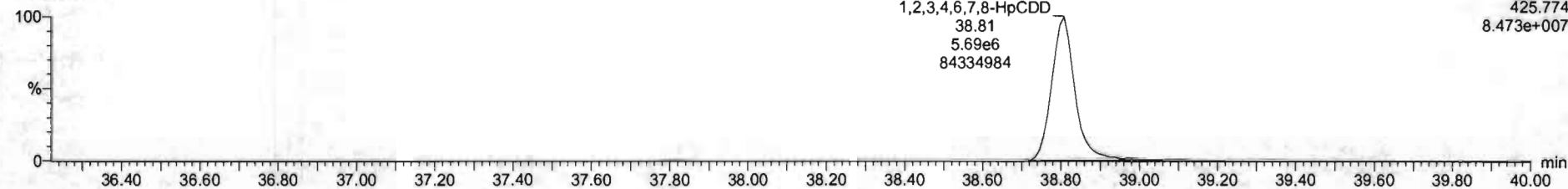
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1,2,3,4,6,7,8-HpCDD

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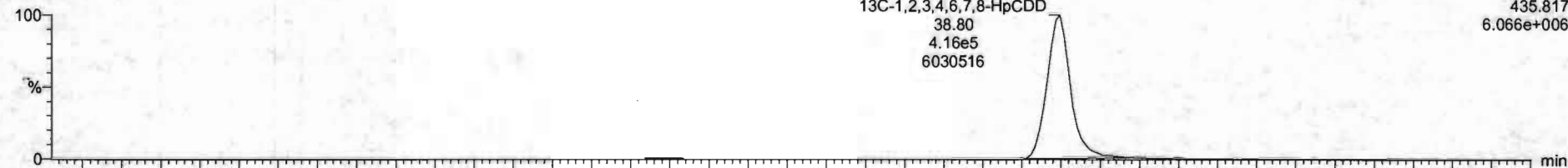


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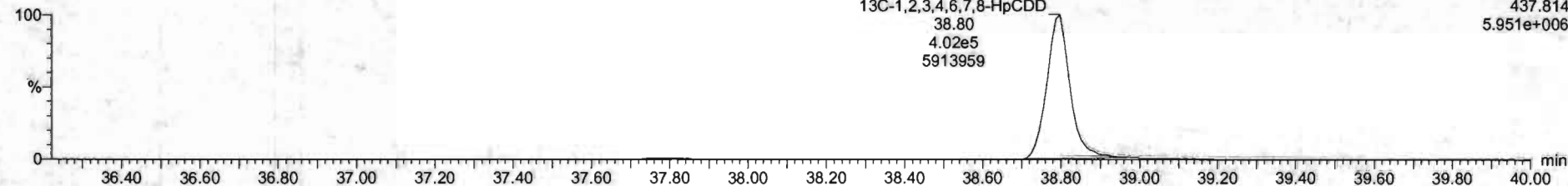


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200528R2_5



200528R2_5



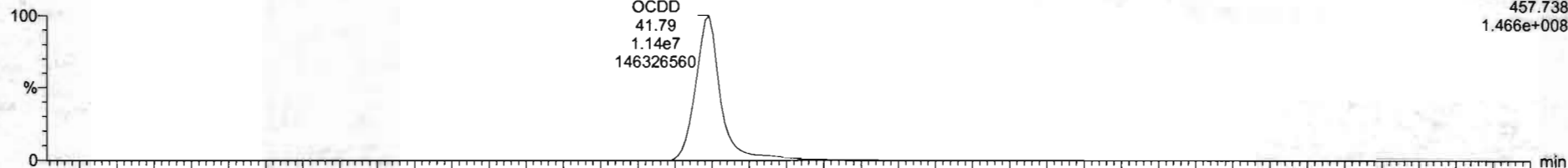
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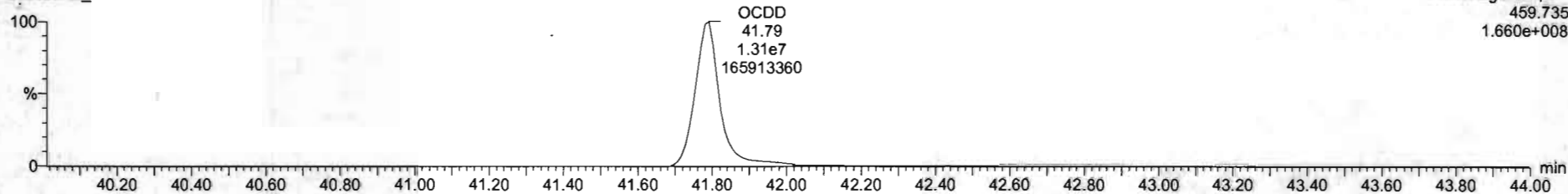
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OCDD

200528R2_5

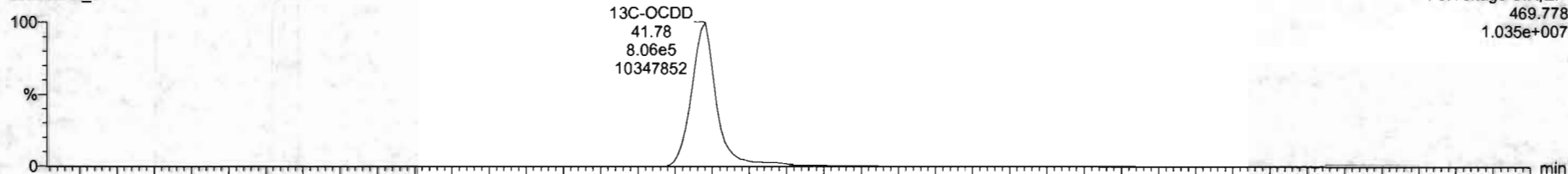


200528R2_5

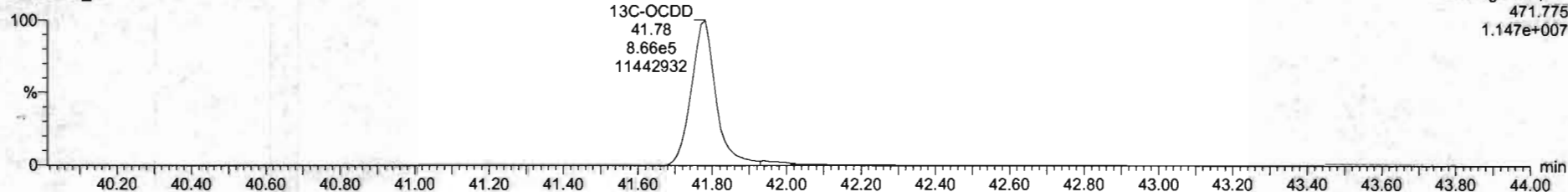


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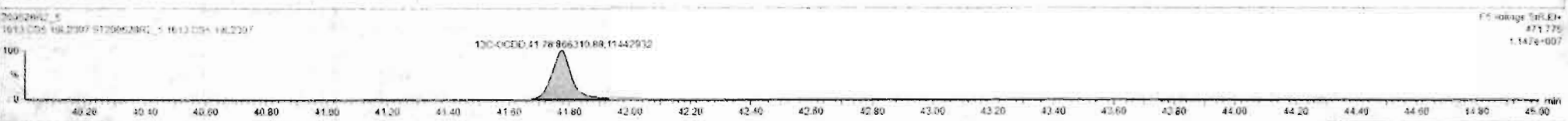
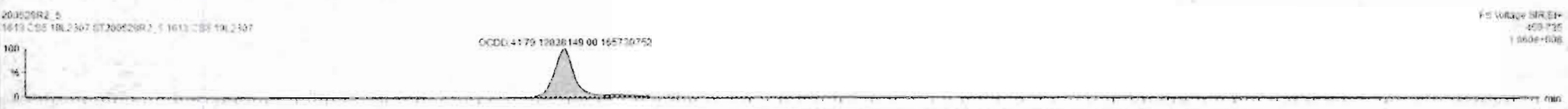
200528R2_5



200528R2_5



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1	2.3.7.8-TCD0	4.52e7	0.76	NO	0.6883	1.000	26.95	1.001	321	107	0.0511	321
2	1.2.3.7.8-FluCD0	1.58e7	0.63	NO	0.9051	1.000	31.61	1.000	1550	103	0.124	1550
3	1.2.3.4.7.8-HuCD0	1.47e7	1.23	NO	1.0334	1.000	34.08	1.000	1520	101	0.130	1520
4	1.2.3.8.7.8-HuCD0	1.61e7	1.21	NO	0.9523	1.000	34.99	1.000	1550	103	0.142	1550
5	1.2.3.7.8.9-HuCD0	1.47e7	1.23	NO	0.9265	1.000	35.27	1.000	1570	104	0.107	1570
6	1.2.3.4.6.7.8-HuCD0	1.15e7	1.01	NO	0.8639	1.000	36.61	1.000	1620	105	0.161	1620
7	OCDD	2.37e7	0.84	NO	0.9138	1.000	41.79	1.000	3100	103	0.379	3100
8	2.3.7.6-TCD0	0.00e0	0.75	NO	0.7510	1.000	45.65	1.001	325	105	0.0600	325
9	1.2.3.7.8-PeCDF	2.38e7	1.14	NO	0.8925	1.000	40.23	1.000	1570	101	0.231	1570
10	2.3.4.7.8-PeCDF	0.40e7	1.53	NO	0.9348	1.000	31.21	1.000	1550	101	0.213	1550
11	1.2.3.4.7.8-HuCDF	1.61e7	1.19	NO	0.8644	1.000	34.01	1.000	1590	106	0.103	1590
12	1.2.3.6.7.8-HuCDF	1.06e7	1.19	NO	0.8092	1.000	34.72	1.000	1535	101	0.0927	1535
13	2.3.4.6.7.8-HuCDF	1.72e7	1.19	NO	0.9341	1.000	34.72	1.001	1560	104	0.152	1560
14	1.2.3.7.8.9-HuCDF	1.49e7	1.26	NO	0.6707	1.000	35.83	1.000	1560	106	0.145	1560
15	1.2.3.4.6.7.8-HuCDF	1.28e7	1.09	NO	0.8734	1.000	37.40	1.000	1560	104	0.303	1560
16	1.2.3.4.7.8.9-HuCDF	1.05e7	1.00	NO	1.0172	1.000	38.34	1.000	1620	103	0.215	1620
17	OCDF	2.38e7	0.85	NO	0.8085	1.000	41.95	1.000	3090	101	0.250	3090
18	13C-2.3.7.8-TCD0	1.52e6	0.76	NO	1.1583	1.000	26.96	1.026	106	106	0.0720	106
19	13C-1.2.3.7.8-PeCDD	1.21e6	0.64	NO	0.8499	1.000	31.58	1.215	114	114	0.130	114
20	13C-1.2.3.4.7.8-PeCDD	6.34e5	1.28	NO	0.7750	1.000	34.97	1.014	110	110	0.191	110
21	13C-1.2.3.6.7.8-PeCDD	1.17e6	1.27	NO	1.0167	1.000	34.97	1.017	113	113	0.146	113



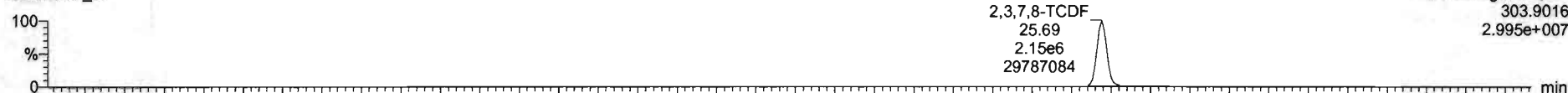
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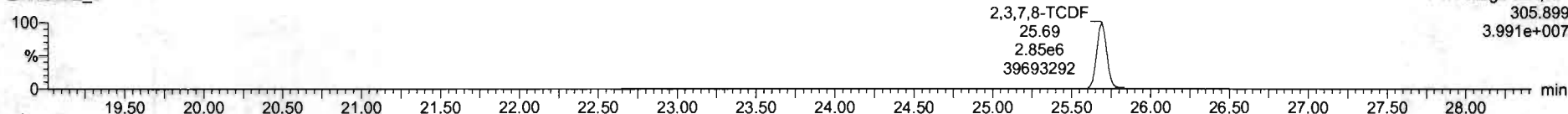
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2,3,7,8-TCDF

200528R2_5

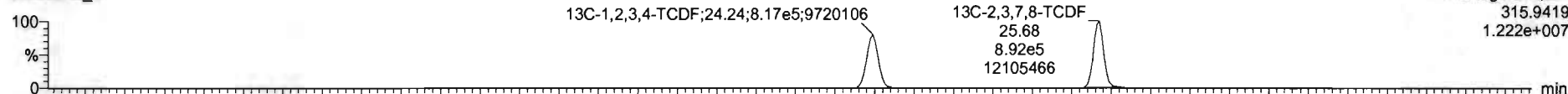


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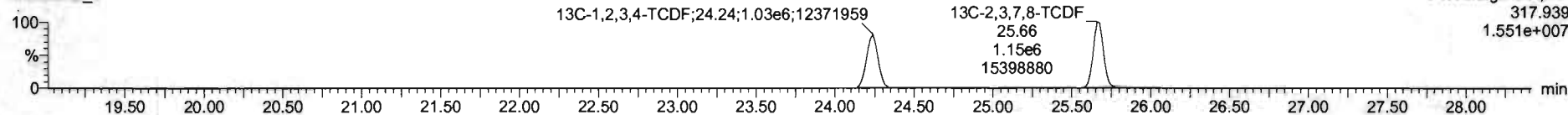


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200528R2_5

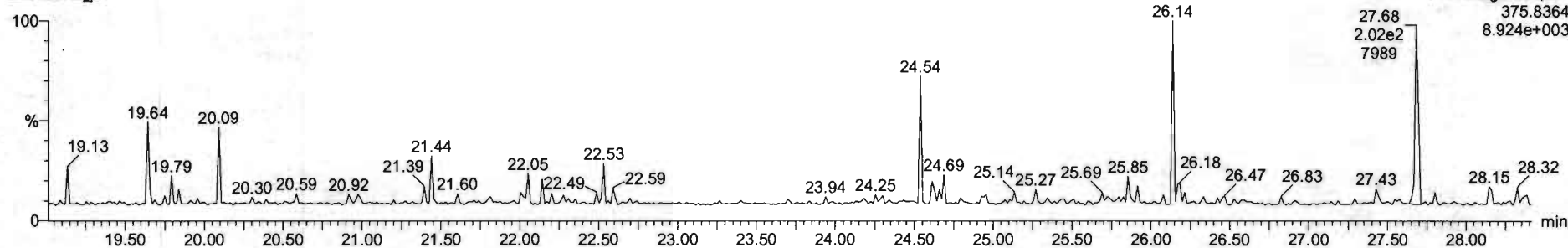


200528R2_5



DPE1

200528R2_5



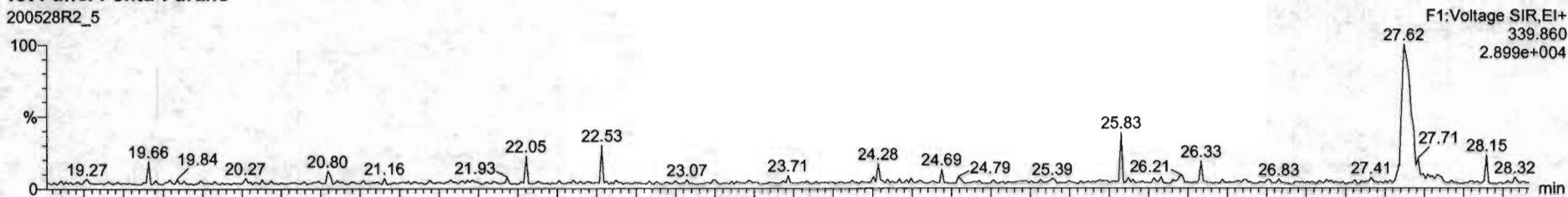
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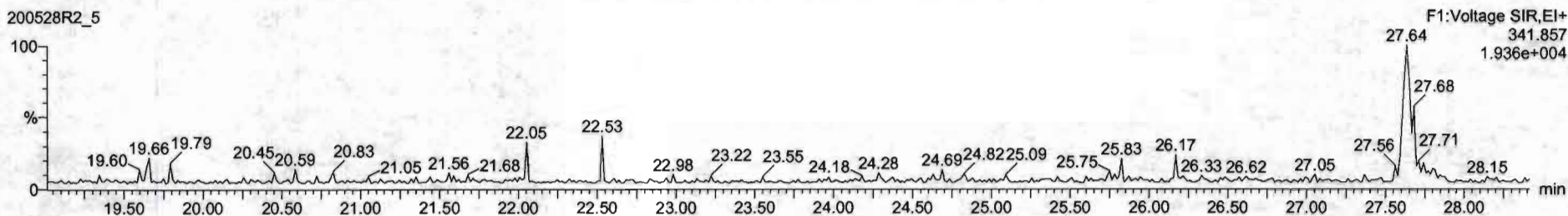
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200528R2_5

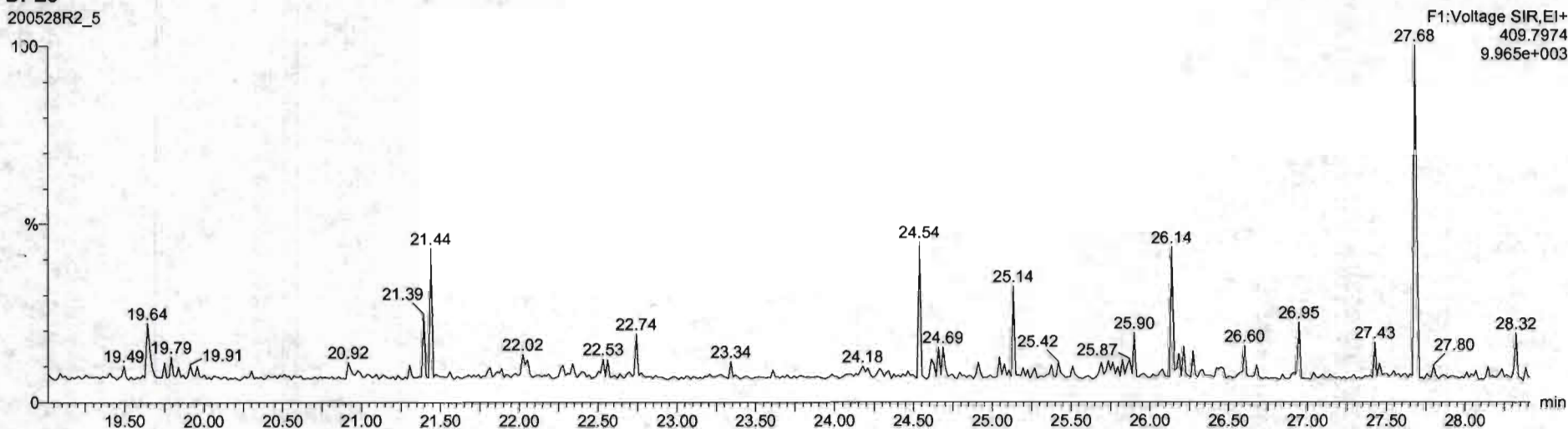


200528R2_5



DPE6

200528R2_5



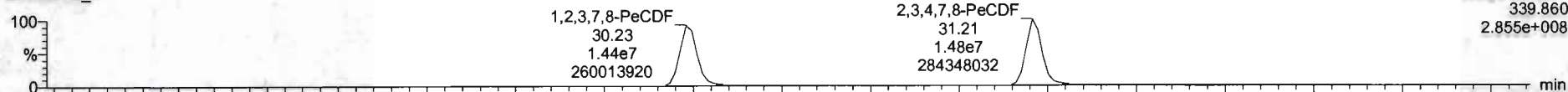
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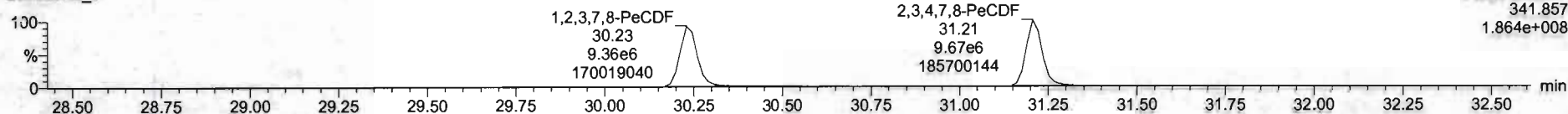
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1,2,3,7,8-PeCDF

200528R2_5

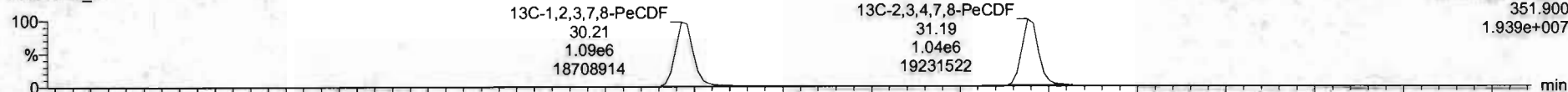


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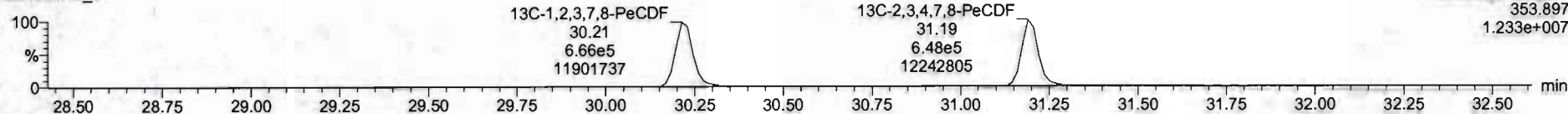


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200528R2_5

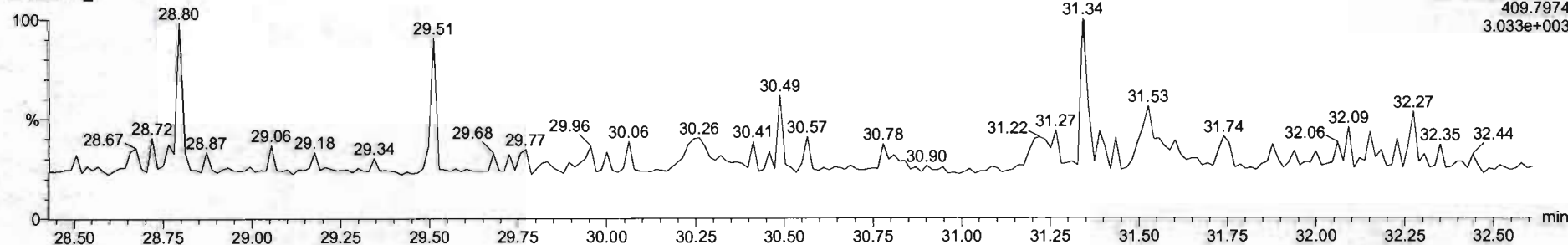


200528R2_5



DPE2

200528R2_5



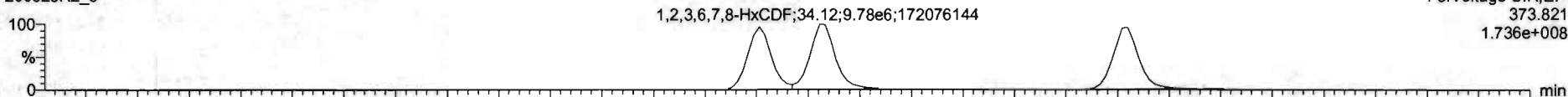
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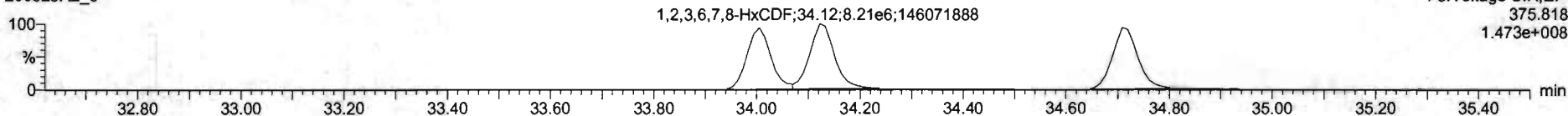
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1,2,3,4,7,8-HxCDF

200528R2_5

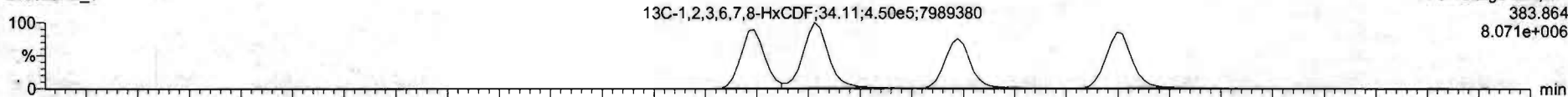


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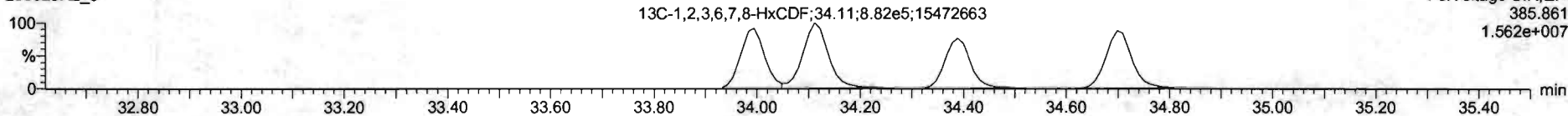


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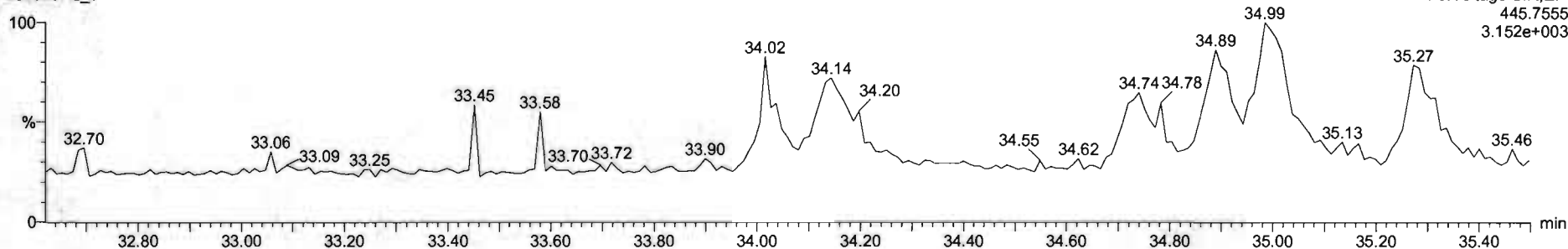


200528R2_5



DPE3

200528R2_5



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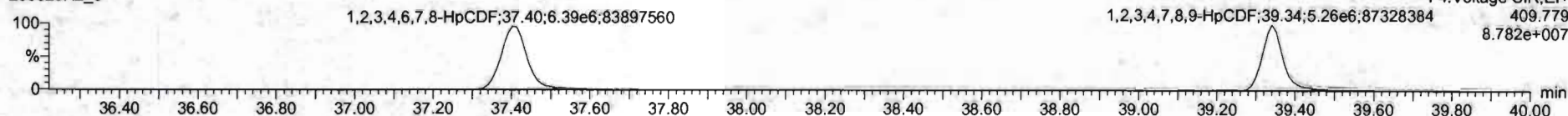
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1,2,3,4,6,7,8-HpCDF

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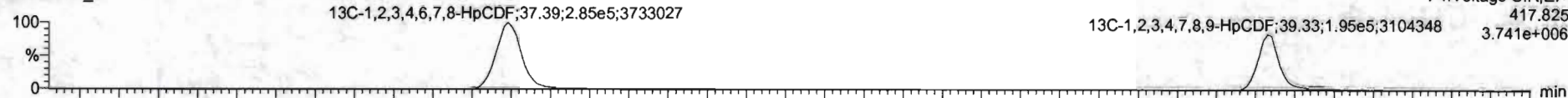


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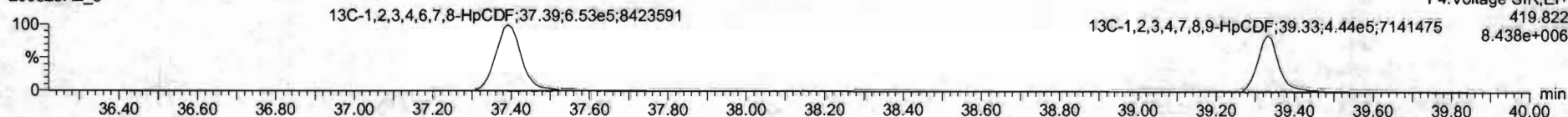


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200528R2_5

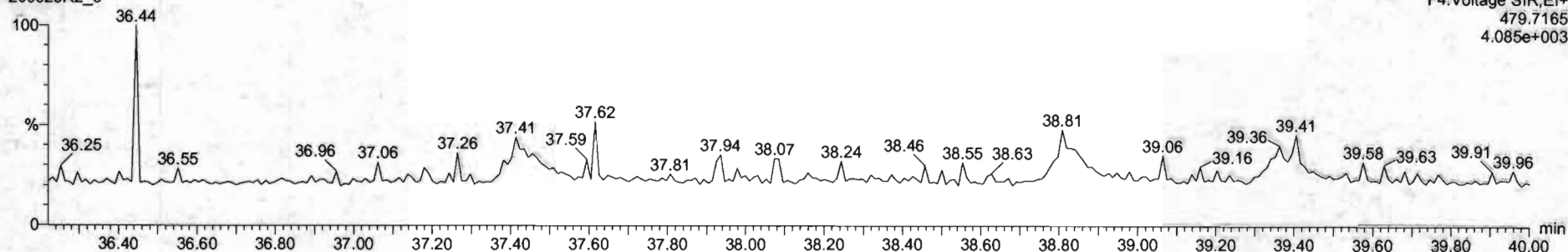


200528R2_5



DPE4

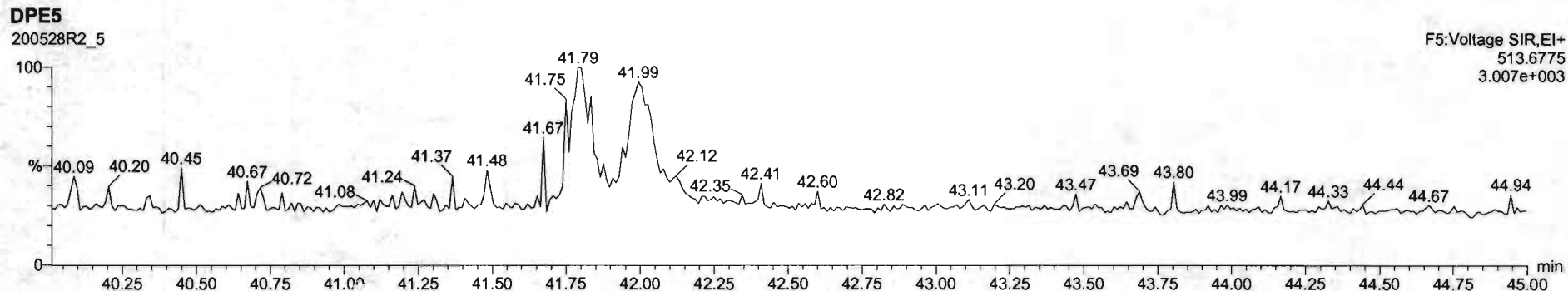
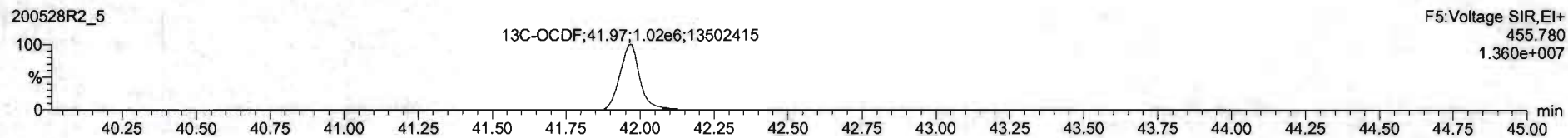
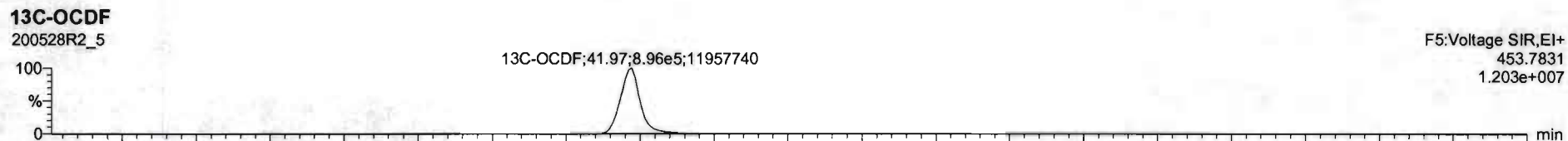
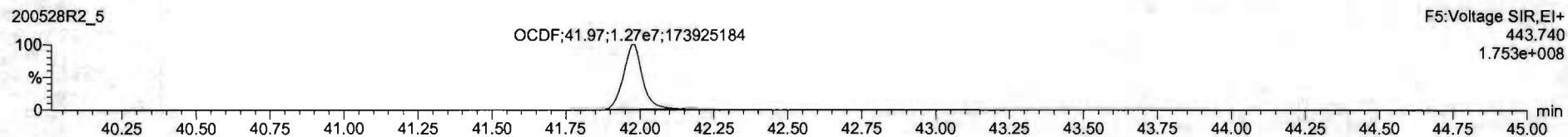
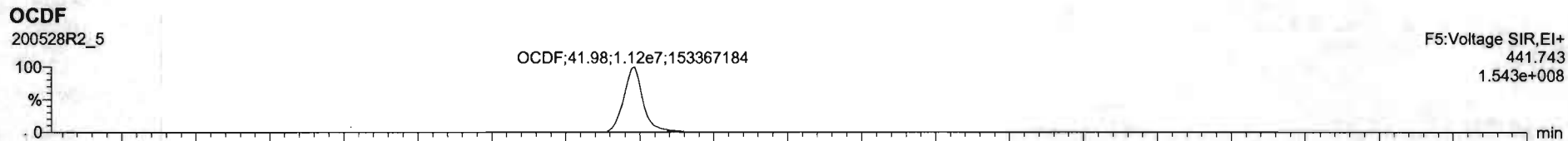
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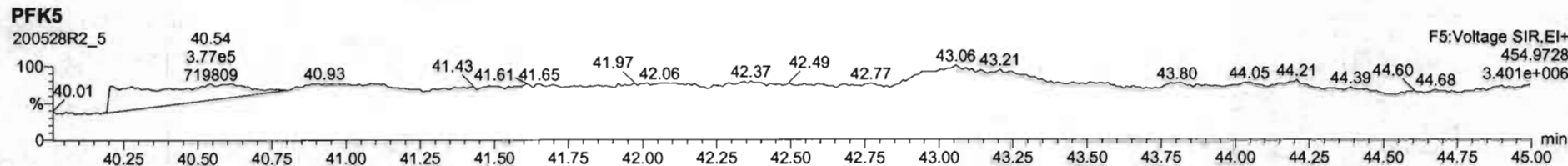
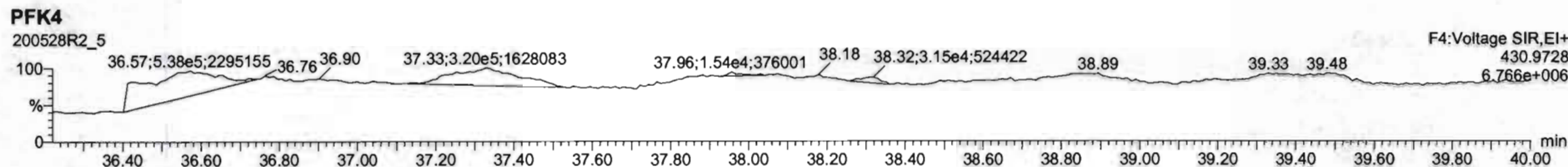
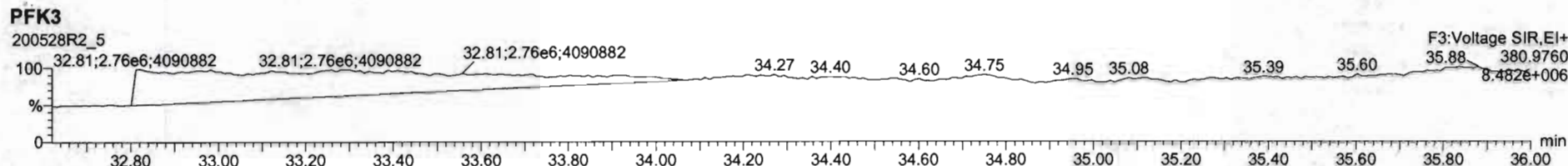
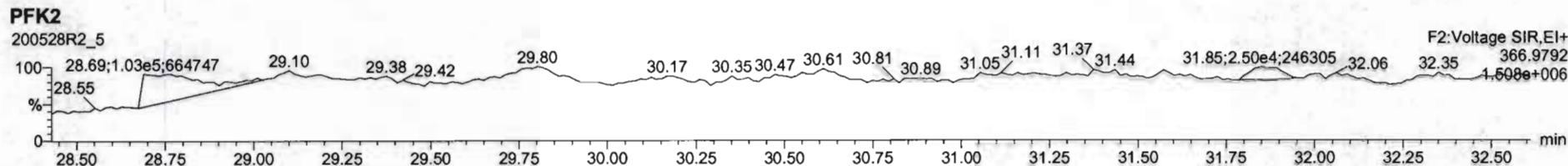
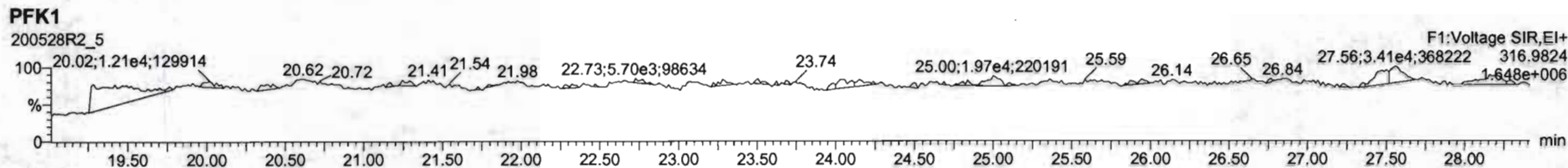
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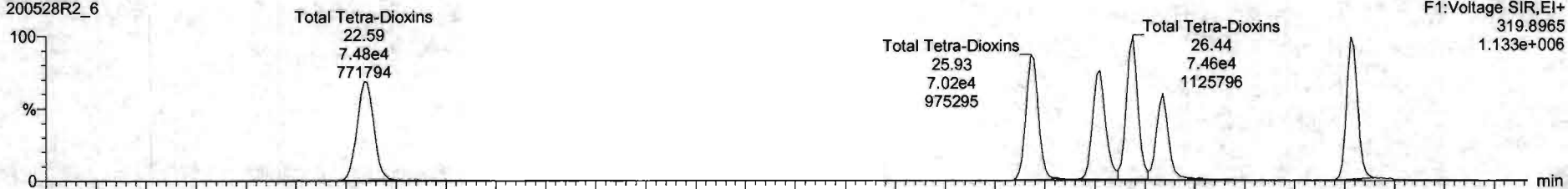
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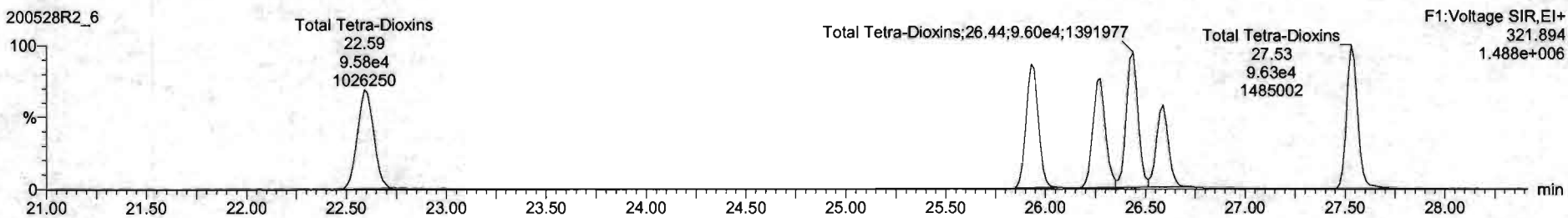
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2,3,7,8-TCDD

200528R2_6

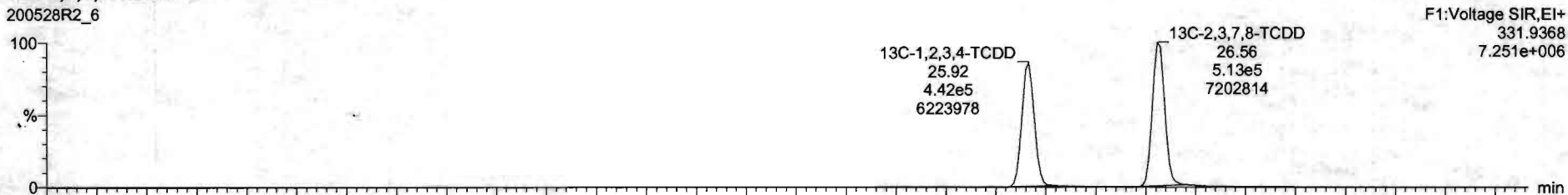


200528R2_6

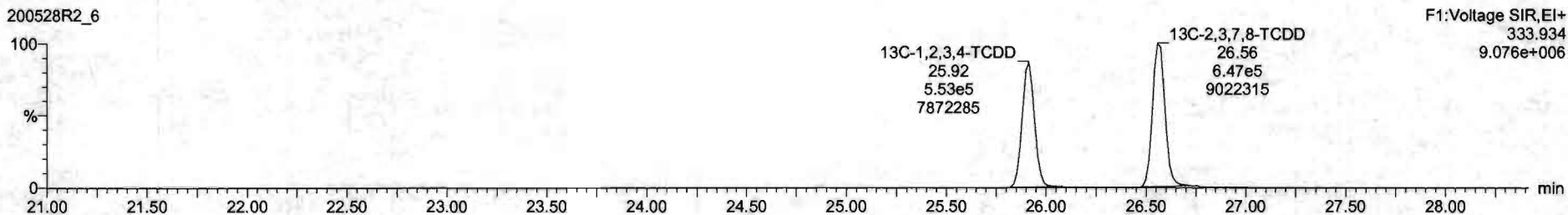


13C-2,3,7,8-TCDD

200528R2_6



200528R2_6



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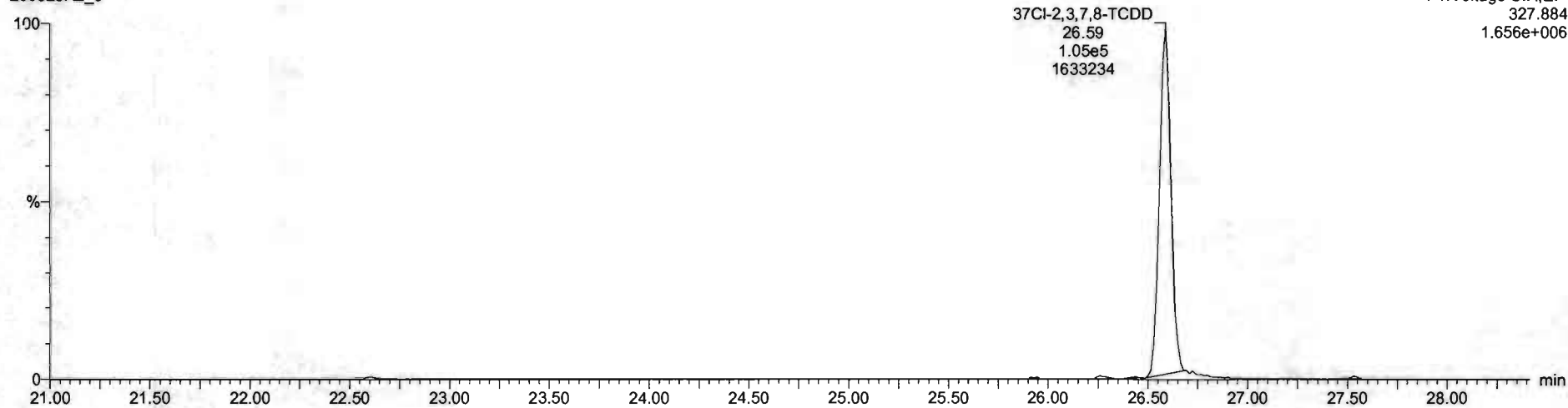
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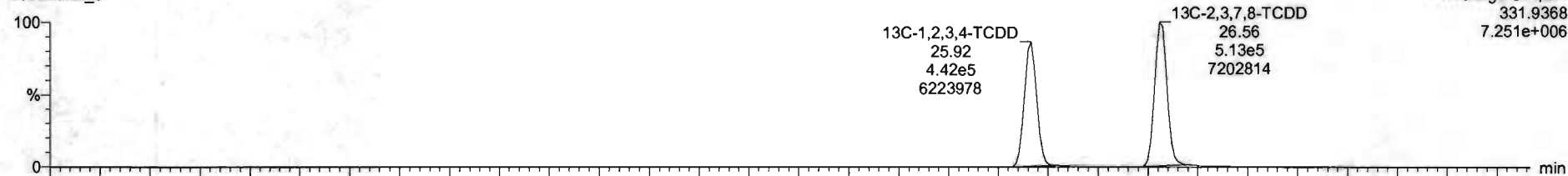
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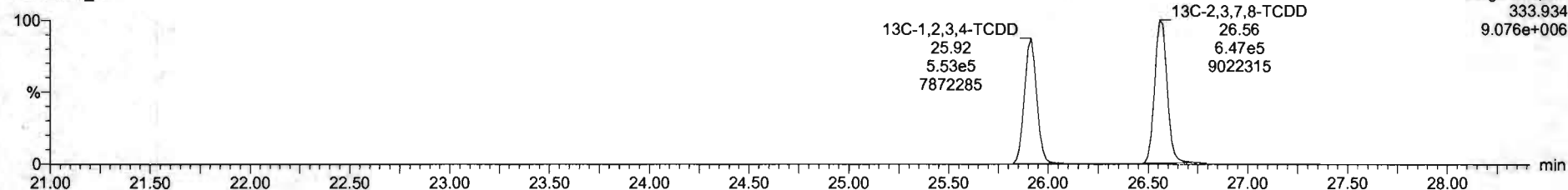


13C-1,2,3,4-TCDD

200528R2_6



200528R2_6



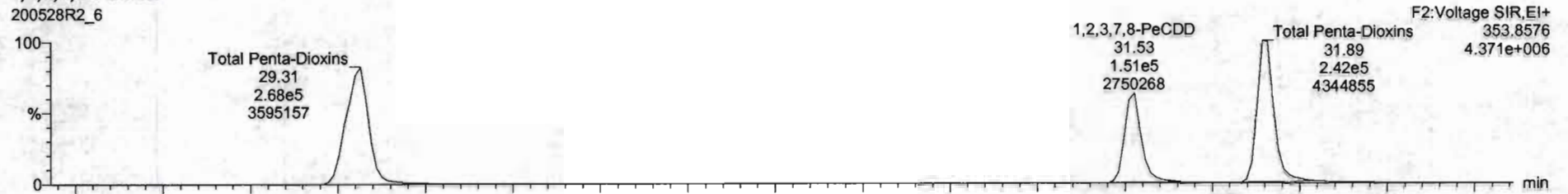
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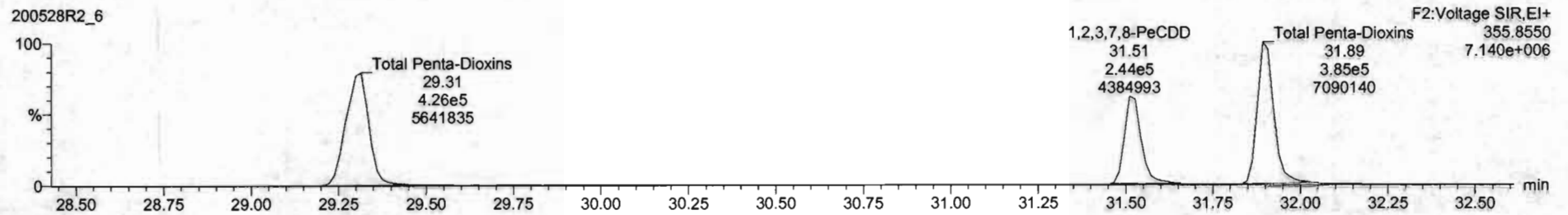
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1,2,3,7,8-PeCDD

200528R2_6

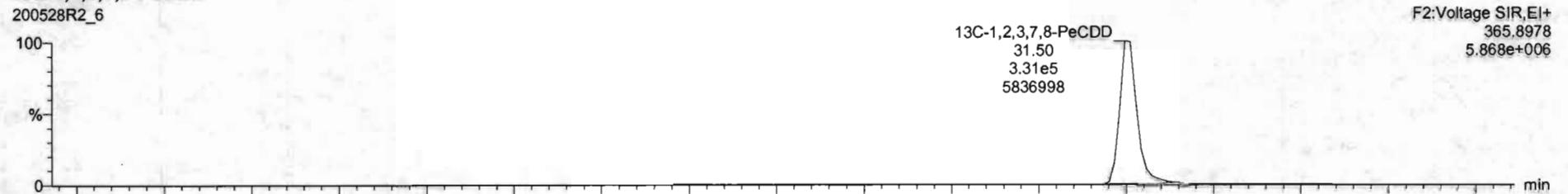


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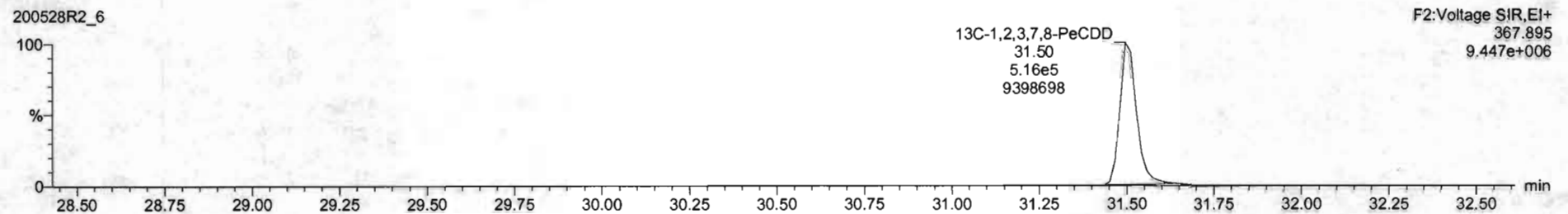


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200528R2_6



200528R2_6



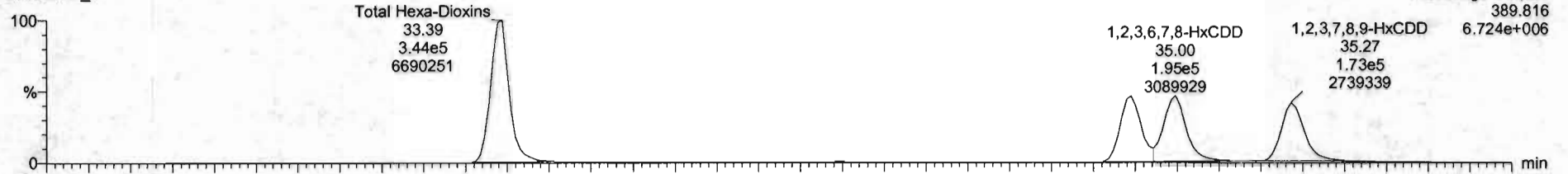
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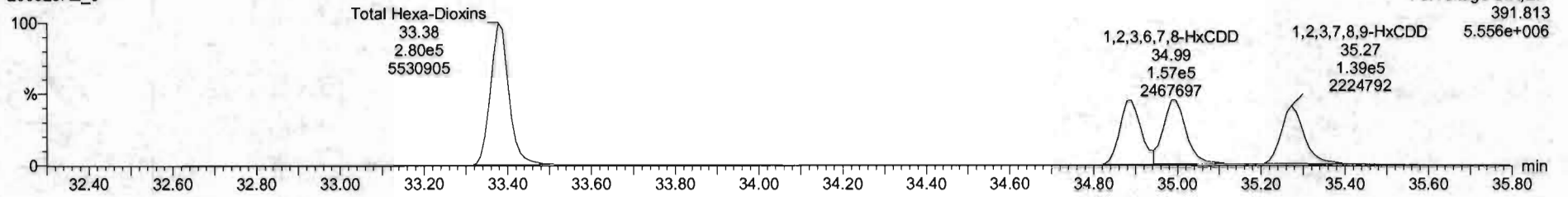
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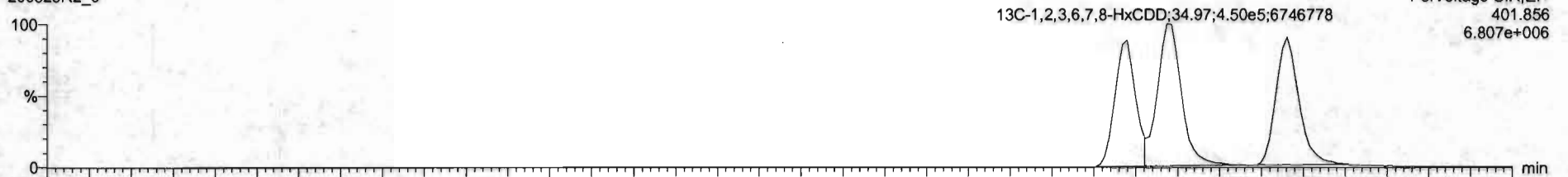


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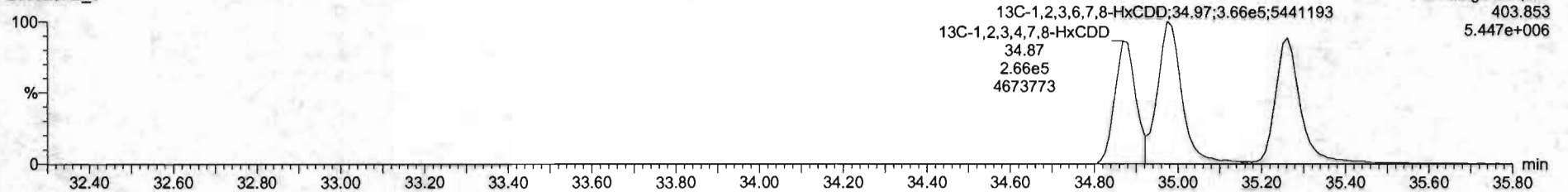


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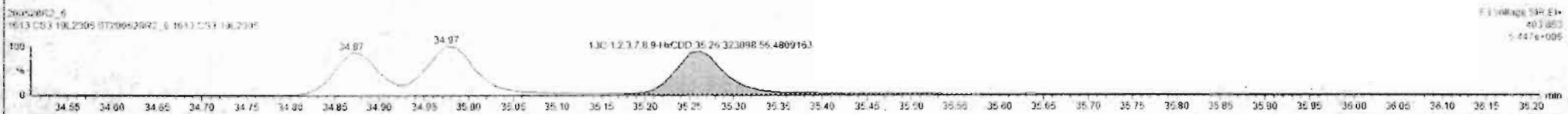
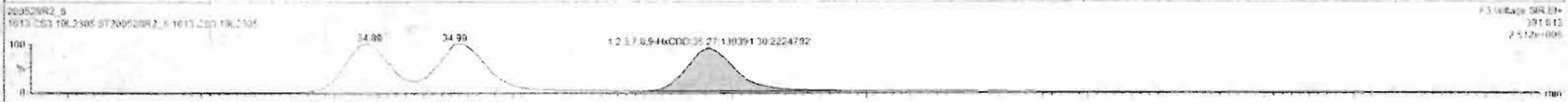
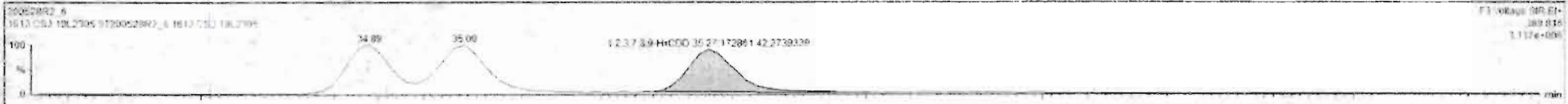
200528R2_6



200528R2_6



SL	Name	Resd	RA	aly	RRT	sd/vol	RT	RRT	Conc.	%Rec	DL	LHPC
1	1,2,3,6-TCDD	1.06e5	0.91	NO	0.6203	1.000	26.59	1.001	10.2	102	0.0674	16.2
2	1,2,3,7,8-PeCDD	3.96e5	0.62	NO	0.9041	1.000	34.43	1.001	51.3	103	2.19e	51.3
3	1,2,3,4,7,8-HxCDD	3.25e5	1.22	NO	1.6334	1.000	34.89	1.000	52.1	104	0.220	52.1
4	1,2,3,6,7,8-HxCDD	3.51e5	1.24	NO	0.8921	1.000	34.20	1.001	48.3	96.8	0.211	48.3
5	1,2,3,7,8,9-HxCDD	3.12e5	1.24	NO	0.8869	1.000	35.27	1.000	49.9	99.8	0.204	49.9
6	1,2,3,4,6,7,8-HpCDD	2.29e5	1.02	NO	0.9818	1.000	35.81	1.000	51.2	102	0.209	51.2
7	CDD	4.53e5	0.38	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	1,2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.68	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8905	1.000	30.25	1.000	51.2	102	0.130	51.2
10	1,2,3,7,8-HxCDF	4.81e5	1.57	NO	0.9348	1.000	31.22	1.000	49.3	101	0.130	49.3
11	1,2,3,4,7,8-HxCDF	3.98e5	1.21	NO	0.9548	1.000	34.01	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8822	1.000	34.13	1.000	51.8	104	0.179	51.8
13	1,2,3,4,6,7,8-HpCDF	3.88e5	1.25	NO	0.9341	1.000	34.72	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8767	1.000	35.63	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.84e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.00e5	0.80	NO	1.0125	1.000	38.34	1.000	52.7	105	0.258	52.7
17	OCDF	4.44e5	0.86	NO	0.8505	1.000	41.97	1.000	102	102	0.161	102
18	1,2,3,7,8,9-TCDF	1.16e5	0.79	NO	1.1502	1.000	28.96	1.025	101	101	0.0990	
19	1,2,3,4,6,7,8-HpCDD	8.48e5	0.84	NO	0.8450	1.000	31.60	1.215	100	100	0.205	
20	1,2,3,4,7,8-HxCDD	8.04e5	1.27	NO	0.7790	1.000	34.88	1.014	98.9	98.9	0.188	
21	1,2,3,6,7,8-HxCDD	8.19e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



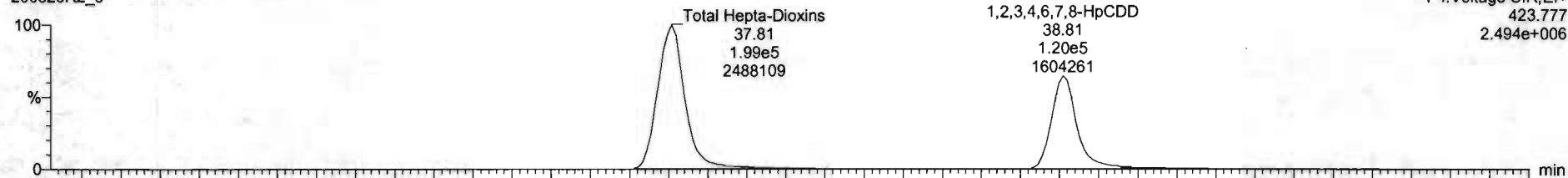
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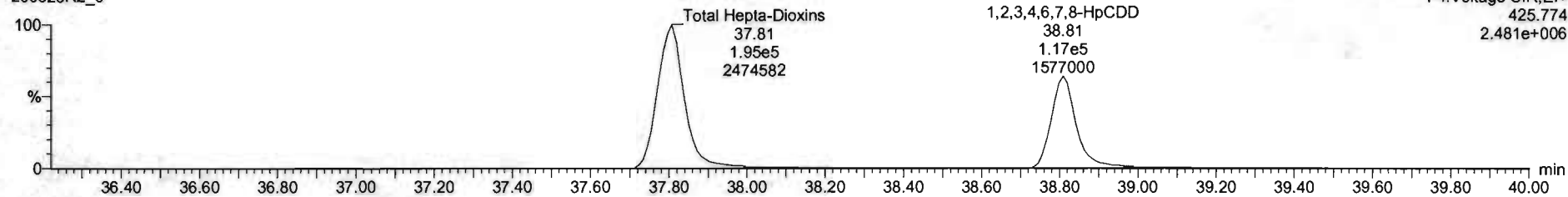
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2.494e+006

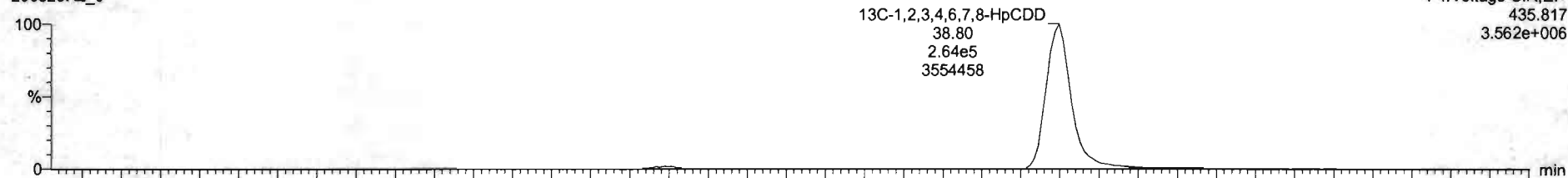
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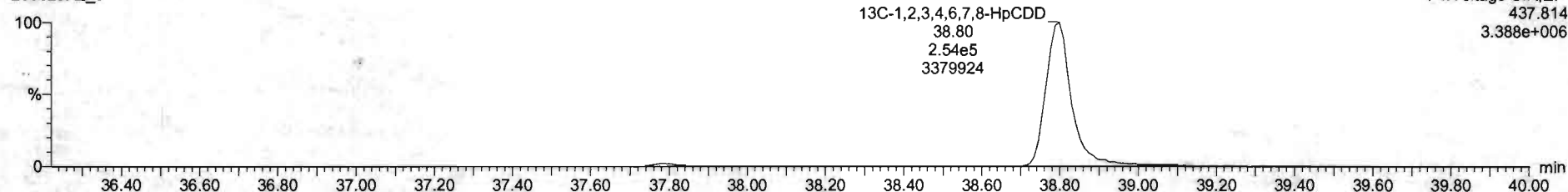
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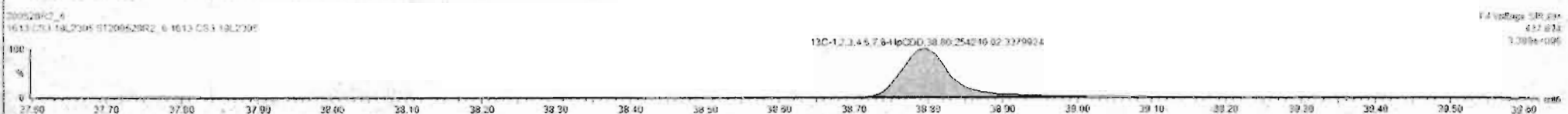
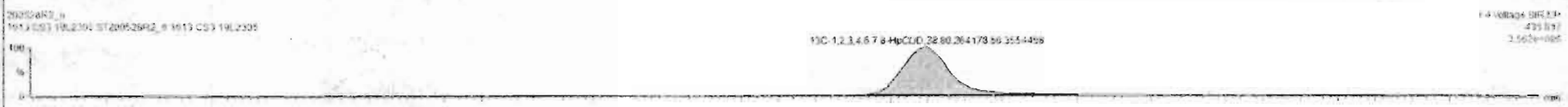
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3.562e+006

200528R2_6



F4: Voltage SIR, EI+
437.814
3.388e+006

#	Name	Resp	RA	inj	RRF	wtvol	HT	RR1	Conc	%Rec	DL	EMPC
1	1,2,3,4,5-HpCDD	1.96e5	0.81	NO	0.880	1.000	26.19	1.001	10.2	102	0.0664	10.0
2	1,2,3,4,6,7,8-HpCDD	3.95e5	0.82	NO	0.900	1.000	31.53	1.001	51.3	102	0.195	51.3
3	1,2,3,4,7,8-HpCDD	3.25e5	1.23	NO	1.034	1.000	34.89	1.006	52.1	104	0.255	52.1
4	1,2,3,4,7,8-HxCDD	3.51e5	1.24	NO	0.890	1.000	35.35	1.001	48.2	96.4	0.251	48.2
5	1,2,3,4,7,8,9-HxCDD	3.12e5	1.24	NO	1.525	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HxCDD	3.95e5	1.03	NO	0.890	1.000	35.81	1.000	51.3	102	0.259	51.2
7	OCDF	4.53e5	0.98	NO	0.916	1.000	41.75	1.000	102	102	0.208	102
8	1,2,3,4,6,7,8-HxCDF	1.19e5	0.74	NO	0.710	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9	1,2,3,4,7,8-HpCDF	5.72e5	1.57	NO	0.890	1.000	30.25	1.000	51.0	102	0.150	51.0
10	1,2,3,4,7,8-HxCDF	5.81e5	1.57	NO	0.930	1.000	31.00	1.000	50.3	101	0.150	50.3
11	1,2,3,4,7,8,9-HxCDF	5.58e5	1.21	NO	0.850	1.000	34.01	1.000	51.1	102	0.151	51.1
12	1,2,3,6,7,8-HpCDF	4.22e5	1.25	NO	0.850	1.000	34.13	1.000	51.9	104	0.170	51.9
13	1,2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.904	1.000	34.72	1.000	51.9	104	0.157	51.9
14	1,2,3,4,7,8-HpCDF	3.98e5	1.22	NO	0.870	1.000	35.03	1.000	51.1	102	0.209	51.1
15	1,2,3,4,6,7,8-HxCDF	2.54e5	0.98	NO	0.870	1.000	37.41	1.001	51.4	103	0.201	51.4
16	1,2,3,4,7,8,9-HpCDF	2.30e5	0.98	NO	1.012	1.000	39.34	1.000	52.7	108	0.288	52.7
17	OCDF	4.44e5	0.85	NO	0.800	1.000	41.87	1.000	102	102	0.161	102
18	13C-1,2,3,4,7,8-HpCDD	1.16e5	0.79	NO	1.150	1.000	29.56	1.025	101	101	0.0980	
19	13C-1,2,3,4,7,8-HxCDD	3.45e5	0.84	NO	0.940	1.000	33.59	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HpCDF	8.04e5	1.27	NO	0.770	1.000	34.58	1.014	98.9	98.9	0.188	
21	13C-1,2,3,6,7,8-HxCDD	8.15e5	1.23	NO	1.040	1.000	34.97	1.017	102	102	0.144	



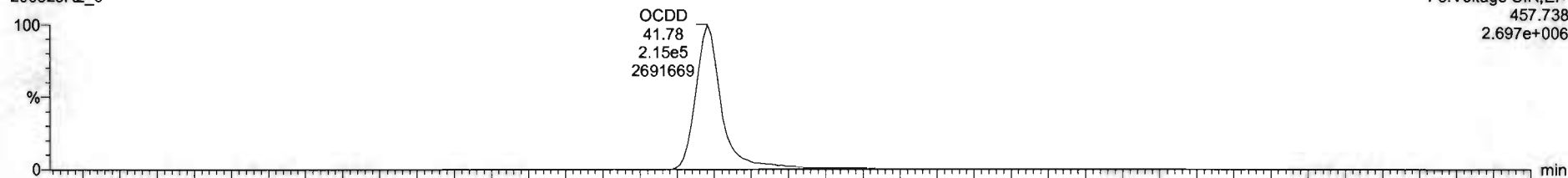
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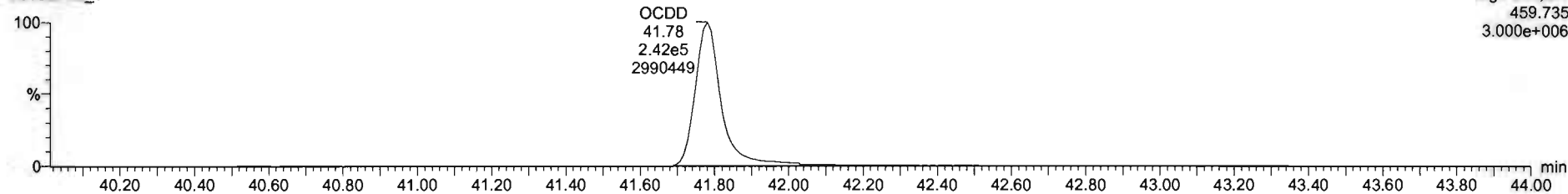
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OCDD

200528R2_6

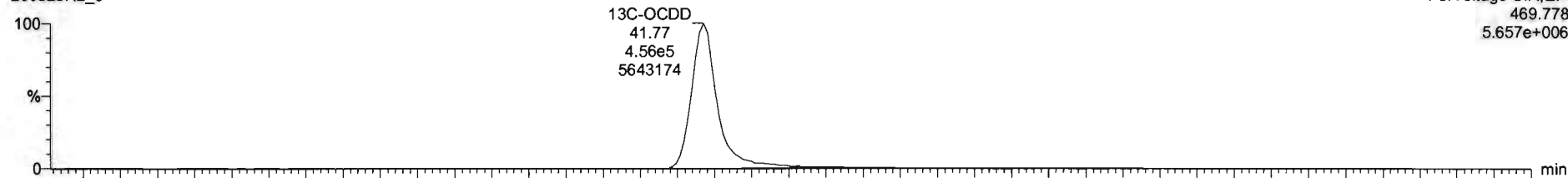


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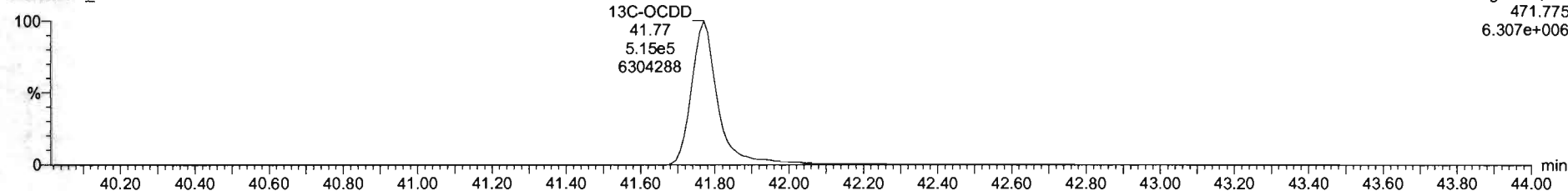


13C-OCDD

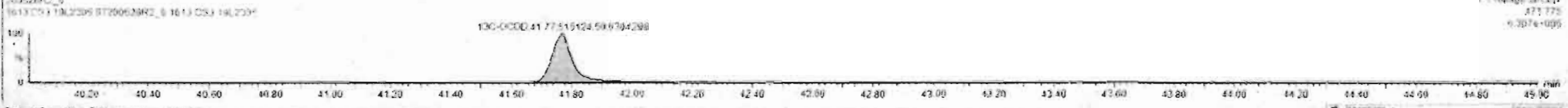
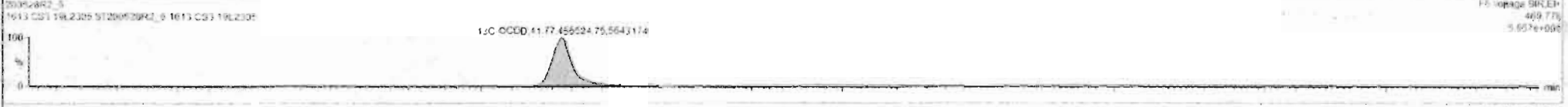
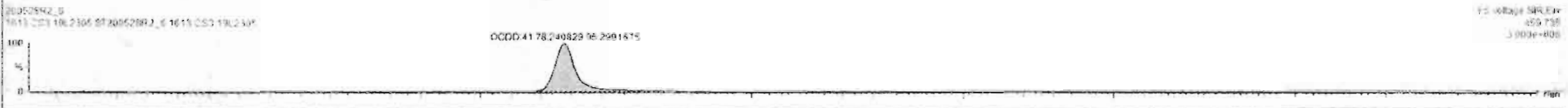
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200528R2_6



#	Name	Resp	RA	Qty	RHF	Wt/Vol	RT	RRT	Conc	%Rec	DL	EMFC
1	2,3,7,8-TCDD	1.96e6	0.21	NO	0.8843	1.000	26.19	1.001	10.2	102	0.0664	10.2
2	1,2,3,7,8-PeCDD	3.96e6	0.22	NO	0.9091	1.000	31.92	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDD	3.25e6	1.25	NO	1.0334	1.000	34.89	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDD	3.51e6	1.24	NO	0.8027	1.000	35.30	1.001	46.3	96.6	0.253	46.3
5	1,2,3,7,8,9-HxCDD	3.12e6	1.24	NO	0.9063	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	7.36e6	1.52	NO	1.0881	1.000	36.81	1.000	71.1	100	0.266	71.1
7	OCDD	4.53e5	0.28	NO	0.9138	1.000	41.76	1.000	102	102	0.208	102
8	2,3,7,8-TCDF	1.19e6	0.24	NO	0.7510	1.000	25.89	1.001	3.96	99.6	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e6	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.159	51.2
10	2,3,4,7,8-PeCDF	8.81e6	1.57	NO	0.9346	1.000	31.22	1.000	50.3	101	0.130	50.3
11	1,2,3,4,7,8-HxCDF	3.56e6	1.21	NO	0.8544	1.000	34.91	1.000	51.1	102	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e6	1.25	NO	0.8062	1.000	34.12	1.000	51.9	104	0.176	51.9
13	2,3,4,6,7,8-HxCDF	3.88e6	1.25	NO	0.9341	1.000	34.22	1.000	51.9	104	0.197	51.9
14	1,2,3,7,8,9-HxCDF	2.98e6	1.22	NO	0.8707	1.000	35.43	1.000	51.1	102	0.201	51.1
15	1,2,3,4,6,7,8-HpCDF	2.64e6	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HpCDF	2.06e6	0.98	NO	1.0128	1.000	39.34	1.000	52.7	105	0.253	52.7
17	OCDF	4.44e6	0.80	NO	0.8045	1.000	41.87	1.000	102	102	0.161	102
18	13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1563	1.000	26.96	1.025	101	101	0.0900	
19	13C-1,2,3,7,8-PeCDD	8.46e6	0.84	NO	0.8490	1.000	31.98	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	6.04e6	1.27	NO	0.7750	1.000	34.88	1.014	96.9	96.9	0.198	
21	13C-1,2,3,6,7,8-HxCDD	6.15e6	1.23	NO	1.0167	1.000	34.97	1.017	102	102	0.144	



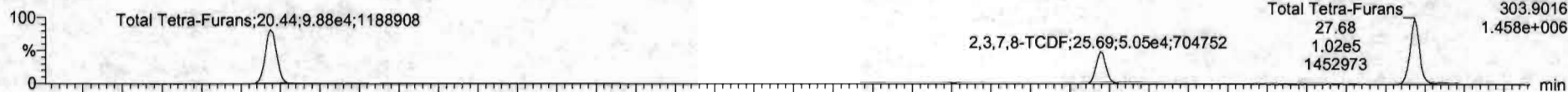
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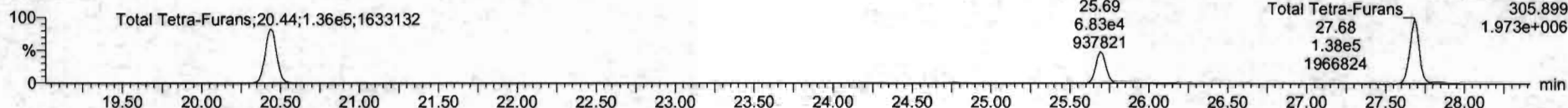
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2,3,7,8-TCDF

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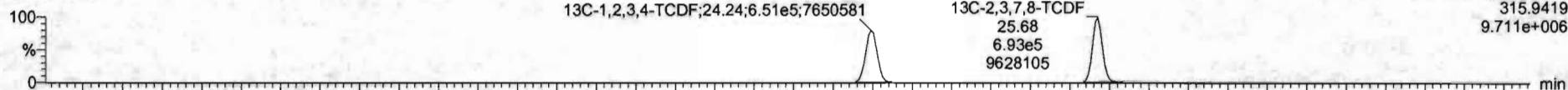


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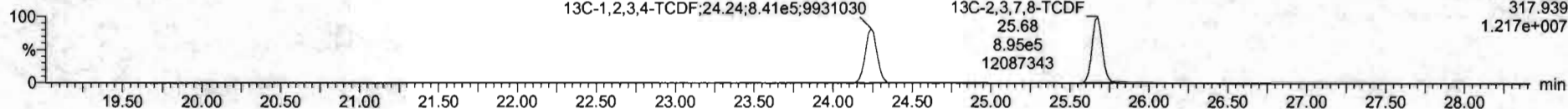


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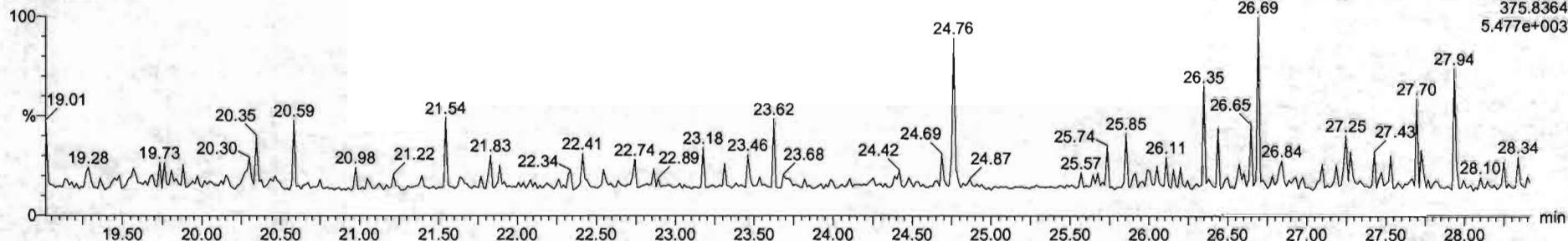


200528R2_6



DPE1

200528R2_6



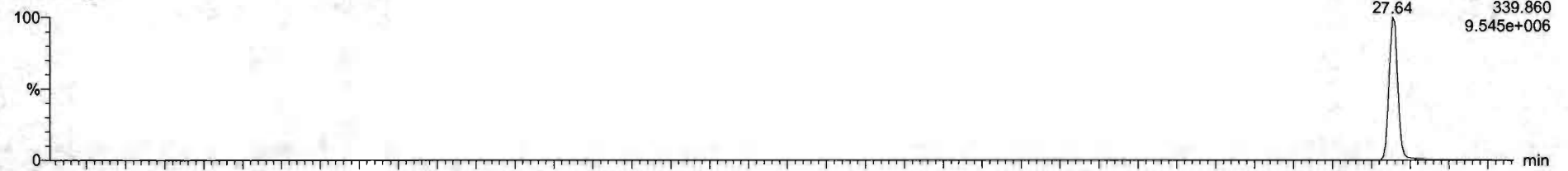
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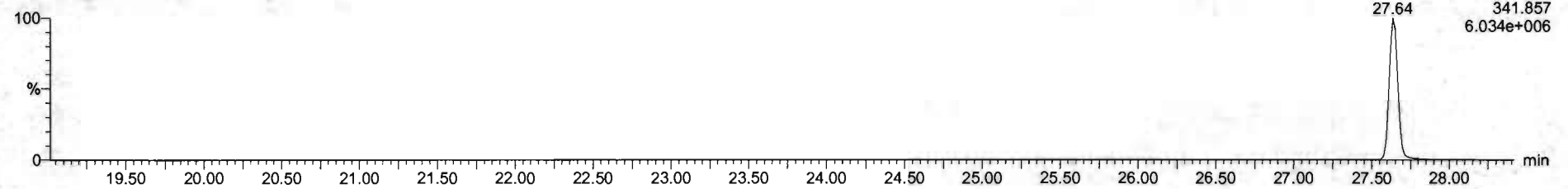
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200528R2_6

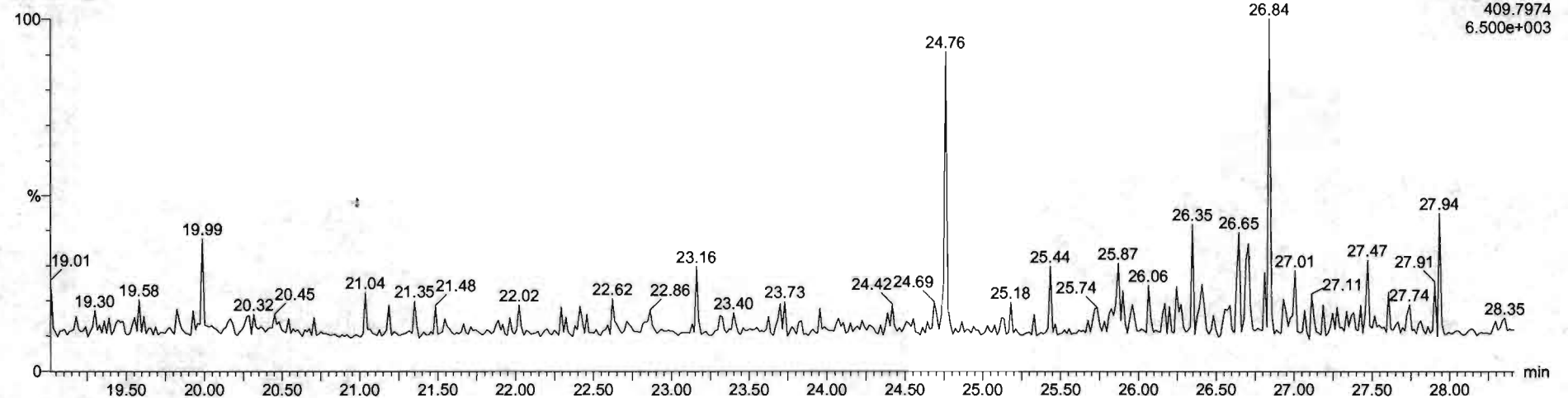


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DPE6

200528R2_6



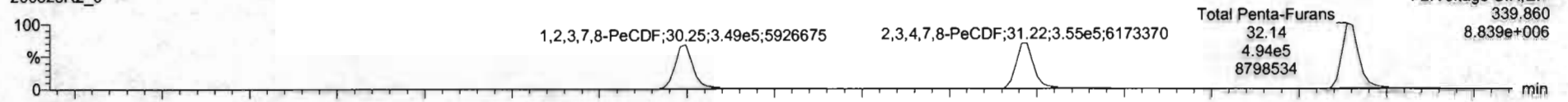
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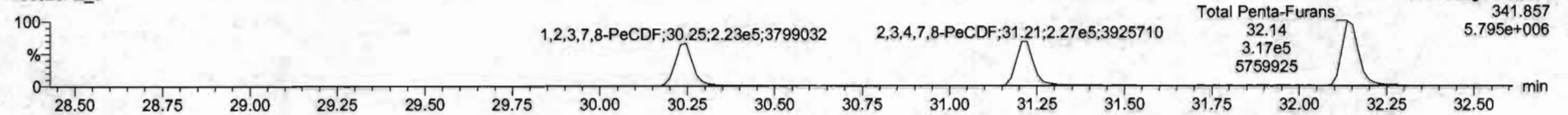
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1,2,3,7,8-PeCDF

200528R2_6

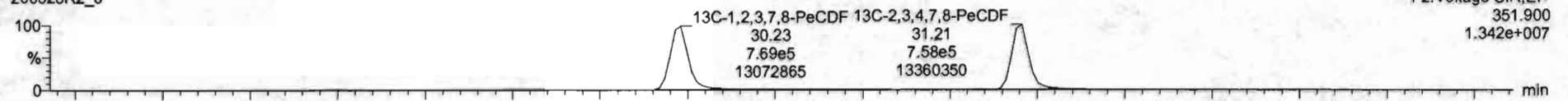


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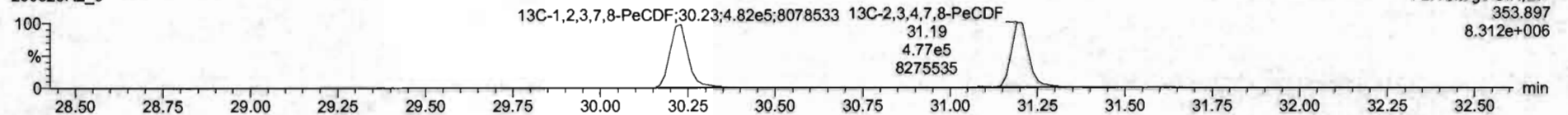


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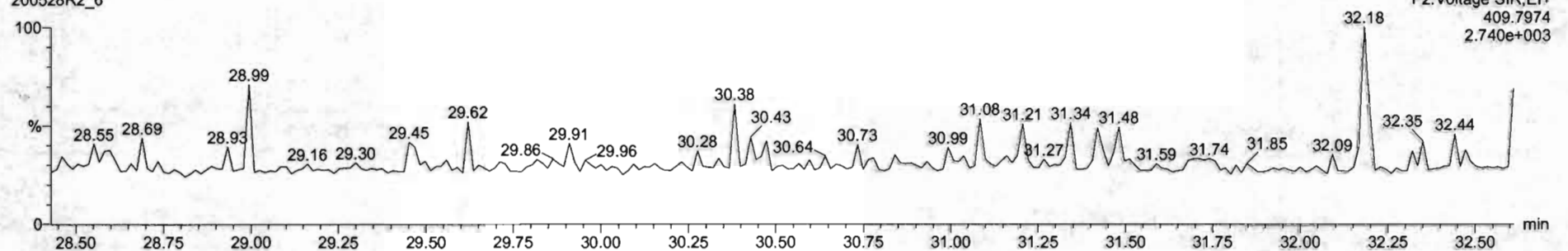


200528R2_6



DPE2

200528R2_6

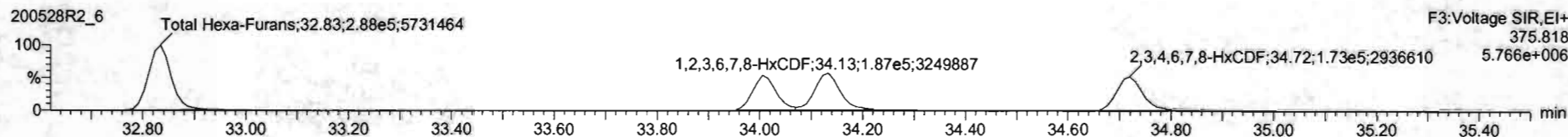
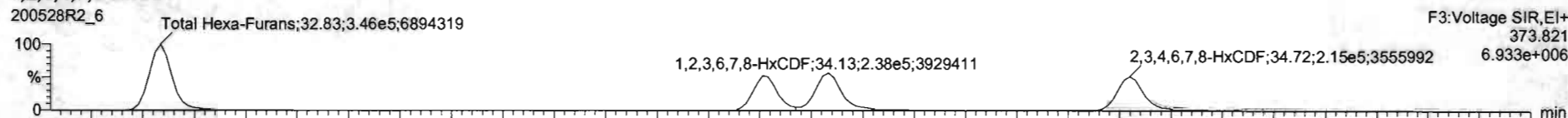


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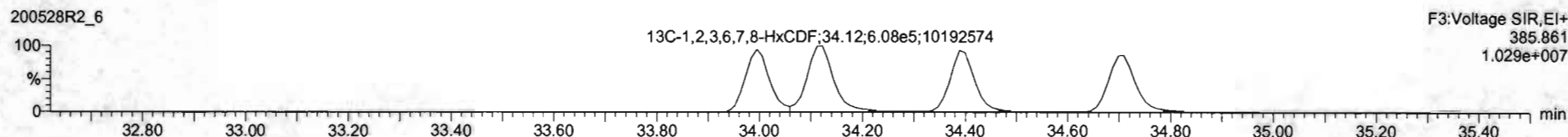
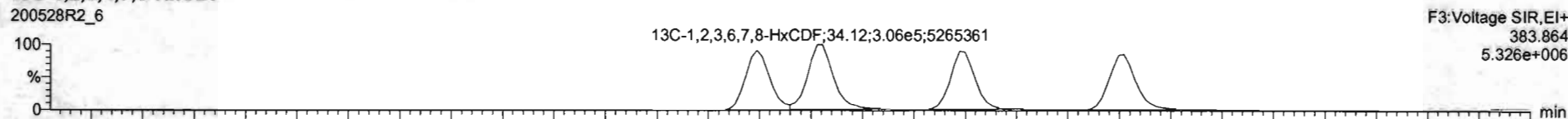
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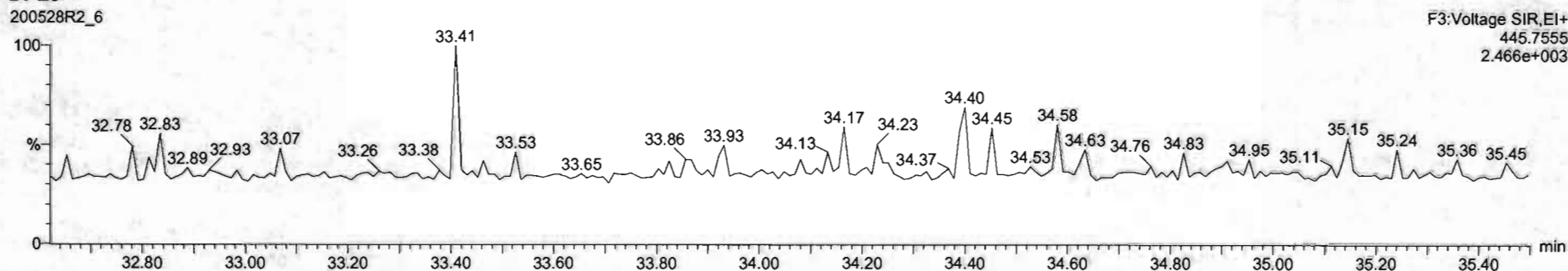
1,2,3,4,7,8-HxCDF



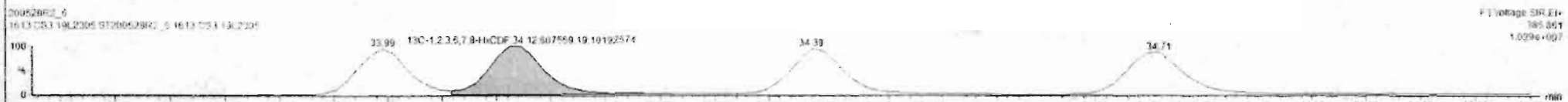
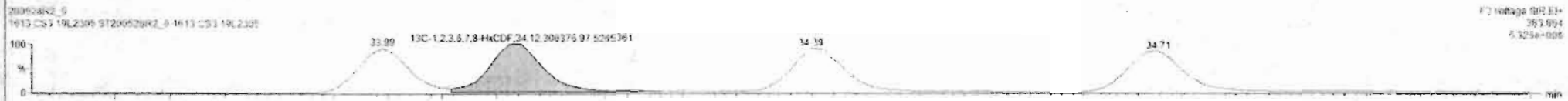
13C-1,2,3,4,7,8-HxCDF



DPE3



Name	Resp	RA	WV	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.06e5	0.81	NO	0.6082	1.000	26.55	1.001	102	102	0.0664	10.2
2 1,2,3,7,8-PeCDD	1.56e5	0.82	NO	0.6081	1.000	31.53	1.001	51.3	103	0.194	51.3
3 1,2,3,4,7,8-HxCDD	0.25e5	1.23	NO	1.0334	1.000	34.89	1.000	52.1	104	0.220	52.1
4 1,2,3,6,7,8-HxCDD	0.31e5	1.24	NO	0.8923	1.000	25.00	1.001	48.3	96.6	0.231	48.3
5 1,2,3,7,8,9-HxCDD	0.12e5	1.24	NO	0.9269	1.000	35.27	1.000	49.9	99.8	0.264	49.9
6 1,2,3,4,6,7,8-HpCDD	0.26e5	1.01	NO	0.8838	1.000	26.61	1.000	51.2	102	0.209	51.2
7 OCDD	1.53e5	0.86	NO	0.5136	1.000	41.78	1.000	102	102	0.290	102
8 2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.90	99.8	0.0613	9.90
9 1,2,3,7,8-PeCDF	0.72e5	1.57	NO	0.8925	1.000	30.25	1.000	51.2	102	0.139	51.2
10 2,3,4,7,8-PeCDF	0.91e5	1.57	NO	0.9248	1.000	31.22	1.000	50.3	101	0.130	50.3
11 1,2,3,4,7,8-HxCDF	0.56e5	1.21	NO	0.8845	1.000	34.01	1.000	51.1	102	0.191	51.1
12 1,2,3,6,7,8-HxCDF	0.42e5	1.25	NO	0.8092	1.000	34.13	1.000	51.9	104	0.170	51.9
13 2,3,4,6,7,8-HxCDF	1.58e5	1.25	NO	0.9241	1.000	34.72	1.000	51.9	104	0.197	51.9
14 1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8707	1.000	35.83	1.000	51.1	102	0.201	51.1
15 1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16 1,2,3,4,7,8,9-HpCDF	0.20e5	0.96	NO	1.0100	1.000	39.34	1.000	52.7	105	0.268	52.7
17 OCDF	1.44e5	0.86	NO	0.8085	1.000	41.97	1.000	102	102	0.141	102
18 13C-2,3,7,8-TCDD	1.16e6	0.79	NO	1.1582	1.000	26.56	1.026	101	101	0.0890	
19 13C-1,2,3,7,8-PeCDD	0.48e5	0.64	NO	0.8490	1.000	31.50	1.215	100	100	0.235	
20 13C-1,2,3,7,8-HxCDD	0.04e5	1.27	NO	0.7790	1.000	34.86	1.014	98.9	98.9	0.188	
21 13C-1,2,3,6,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



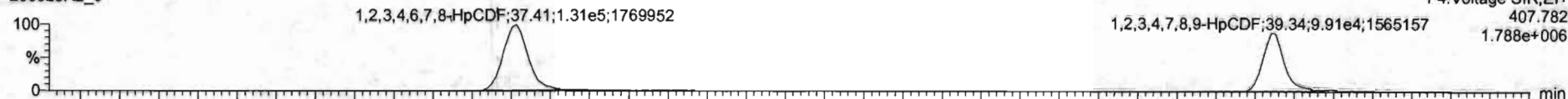
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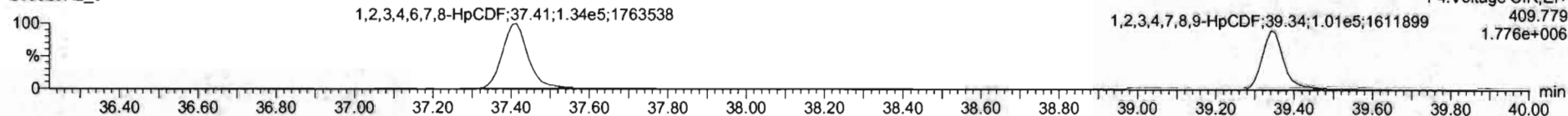
Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200528R2_6

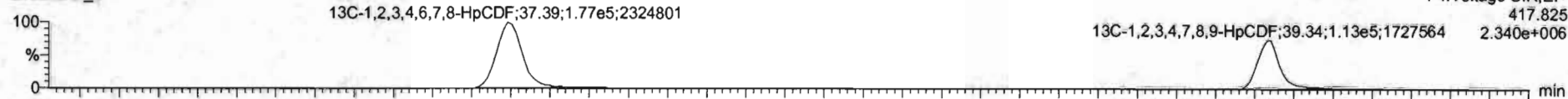


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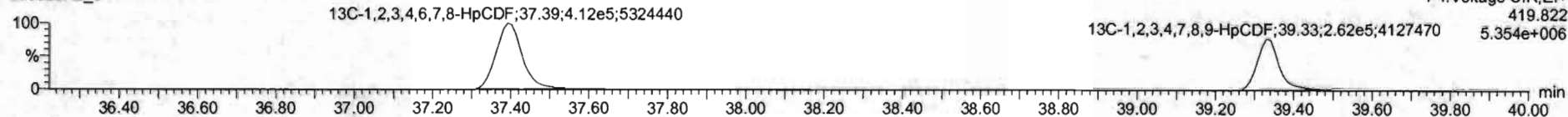


13C-1,2,3,4,6,7,8-HpCDF

200528R2_6

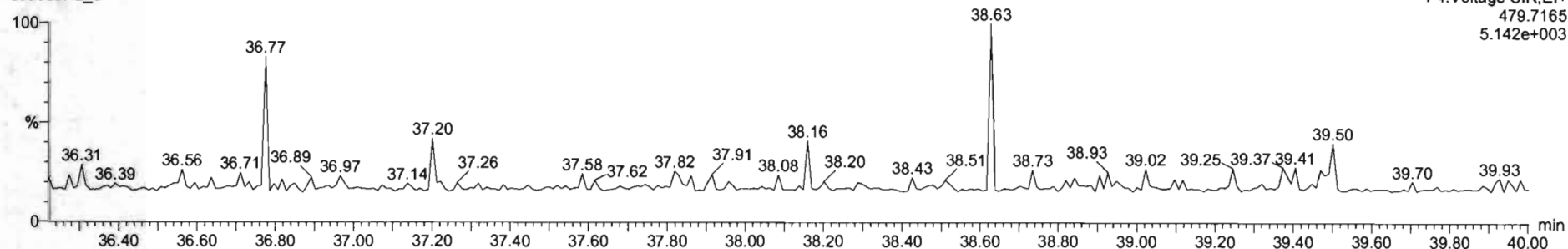


200528R2_6



DPE4

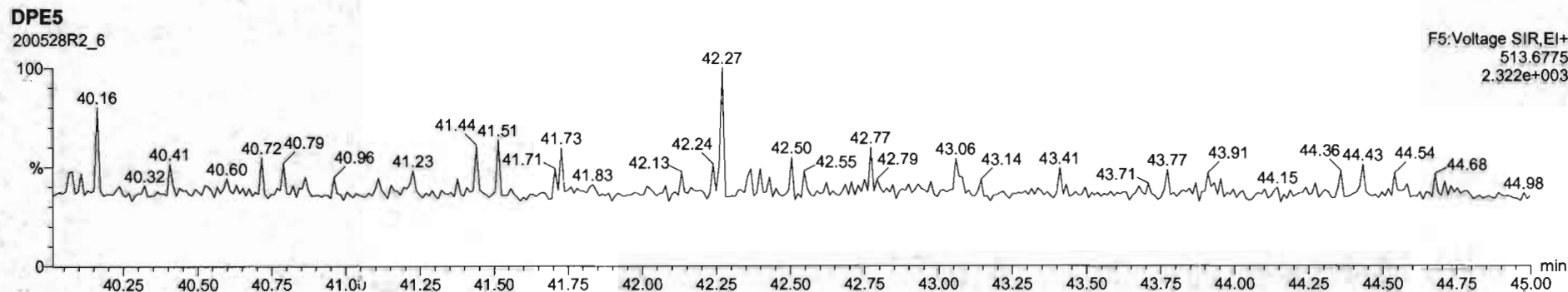
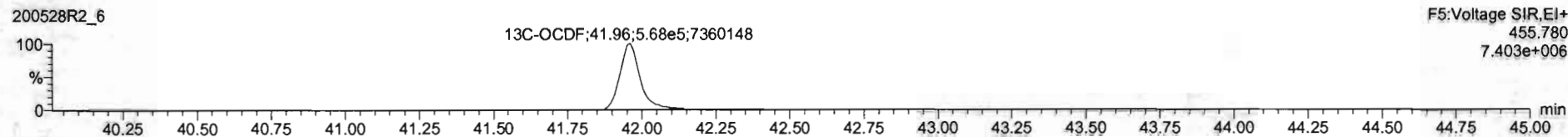
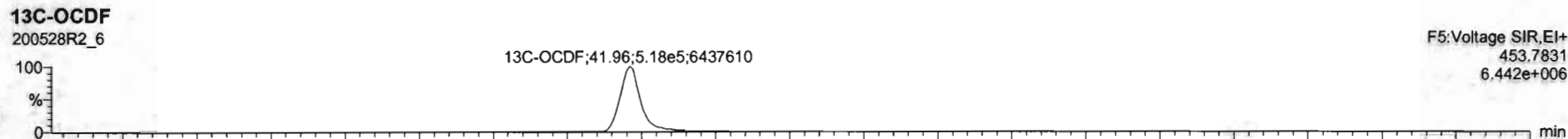
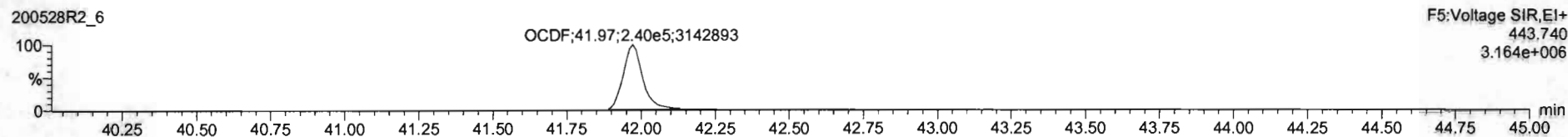
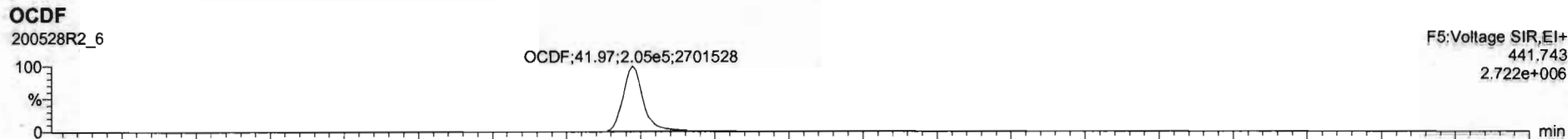
200528R2_6



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Name: 200528R2_6, Date: 28-May-2020, Time: 15:58:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	Resp	RA	Qty	RRF	Wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDF	1.06e5	0.81	NO	0.8503	1.000	26.19	1.001	10.2	102	0.0664	10.2
2	1,2,3,7,8-PeCDF	3.56e5	0.62	NO	0.8091	1.000	31.53	1.001	51.3	103	0.195	51.3
3	1,2,3,4,7,8-HxCDF	0.25e5	1.23	NO	1.0334	1.000	34.99	1.000	52.1	104	0.228	52.1
4	1,2,3,6,7,8-HxCDF	7.51e5	1.38	NO	0.8521	1.000	35.00	1.001	48.3	96.6	0.231	48.3
5	1,2,3,7,8,9-HxCDF	0.12e5	1.24	NO	0.8265	1.000	35.27	1.000	49.9	99.8	0.254	49.9
6	1,2,3,4,6,7,8-HpCDD	1.06e5	1.01	NO	1.9839	1.000	36.81	1.000	77.2	102	0.109	77.2
7	OCDF	4.53e5	0.68	NO	0.9136	1.000	41.78	1.000	102	102	0.206	102
8	2,3,7,8-TCDF	1.19e5	0.74	NO	0.7510	1.000	25.69	1.001	9.98	99.8	0.0613	9.96
9	1,2,3,7,8-PeCDF	5.72e5	1.57	NO	0.8925	1.000	30.24	1.000	51.2	102	0.138	51.2
10	1,2,3,4,7,8-HxCDF	0.61e5	1.57	NO	0.9348	1.000	31.22	1.000	40.3	101	0.150	40.3
11	1,2,3,4,7,8-HxCDF	3.56e5	1.31	NO	0.8545	1.000	34.81	1.000	51.1	103	0.191	51.1
12	1,2,3,6,7,8-HxCDF	4.22e5	1.25	NO	0.8282	1.000	34.13	1.000	51.9	104	0.176	51.9
13	2,3,4,6,7,8-HxCDF	3.08e5	1.25	NO	0.9341	1.000	34.72	1.000	51.8	104	0.187	51.8
14	1,2,3,7,8,9-HxCDF	2.98e5	1.22	NO	0.8787	1.000	34.83	1.000	51.1	102	0.291	51.1
15	1,2,3,4,6,7,8-HpCDF	2.64e5	0.98	NO	0.8734	1.000	37.41	1.001	51.4	103	0.221	51.4
16	1,2,3,4,7,8,9-HpCDF	2.00e5	0.98	NO	1.0128	1.000	39.34	1.000	52.7	102	0.258	52.7
17	OCDF	4.44e5	0.85	NO	0.6085	1.000	41.97	1.000	102	102	0.191	102
18	13C-2,3,7,8-TCDF	1.16e6	0.79	NO	1.1523	1.000	26.96	1.024	101	101	0.0680	
19	13C-1,2,3,7,8-PeCDD	0.48e5	0.84	NO	0.8450	1.000	31.50	1.215	100	100	0.235	
20	13C-1,2,3,4,7,8-HxCDD	0.04e5	1.27	NO	0.7750	1.000	34.88	1.014	98.9	98.9	0.168	
21	13C-1,2,3,6,7,8-HxCDD	0.15e5	1.23	NO	1.0187	1.000	34.97	1.017	102	102	0.144	



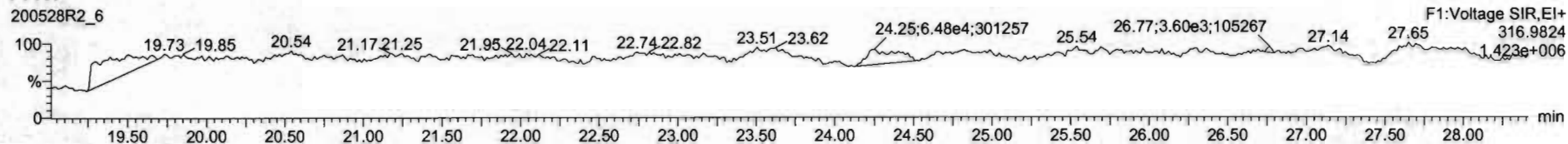
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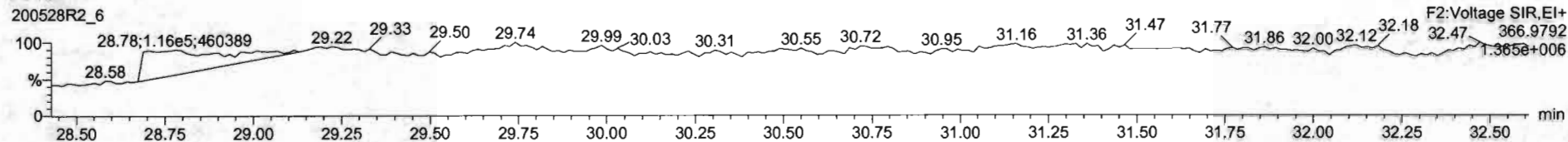
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Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

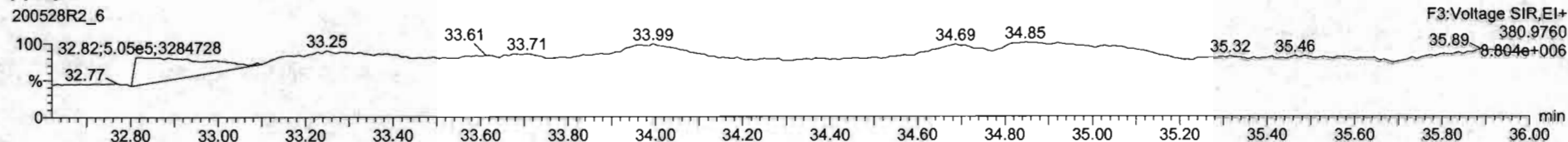
PFK1



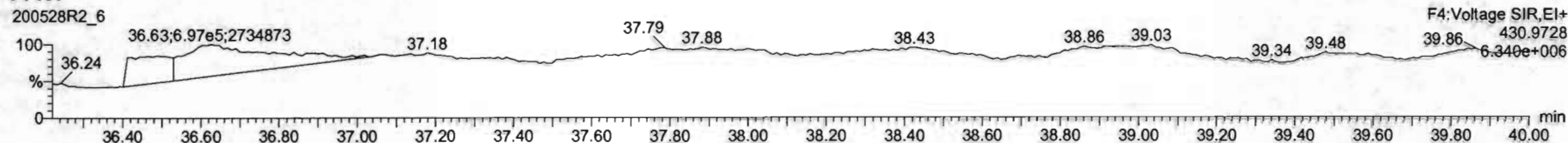
PFK2



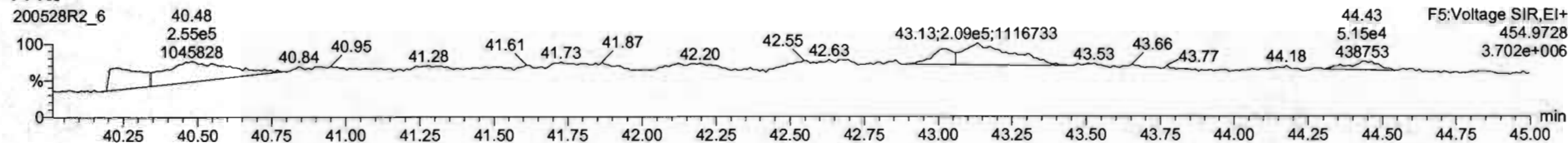
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

GRB 05/29/2020

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17

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

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.888	1.000	26.575	26.57	1.001	1.001	11.080	111	0.0262	11.1
2	2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.908	1.000	31.518	31.51	1.001	1.000	56.429	113	0.0622	56.4
3	3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.03	1.000	34.879	34.88	1.000	1.000	58.033	116	0.101	58.0
4	4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.892	1.000	34.975	34.99	1.000	1.000	57.963	116	0.105	58.0
5	5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.887	1.000	35.262	35.26	1.000	1.000	57.107	114	0.119	57.1
6	6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.864	1.000	38.799	38.80	1.000	1.000	55.832	112	0.168	55.8
7	7 OCDD	5.15e5	0.88	NO	0.914	1.000	41.759	41.78	1.000	1.001	111.26	111	0.171	111
8	8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.751	1.000	25.671	25.68	1.001	1.001	11.386	114	0.0333	11.4
9	9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.893	1.000	30.236	30.23	1.001	1.001	55.728	111	0.0942	55.7
10	10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.935	1.000	31.222	31.21	1.001	1.000	60.229	120	0.0851	60.2
11	11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.884	1.000	33.984	33.99	1.000	1.000	55.936	112	0.113	55.9
12	12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.889	1.000	34.122	34.12	1.000	1.000	56.761	114	0.107	56.8
13	13 2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.934	1.000	34.732	34.71	1.001	1.000	56.468	113	0.117	56.5
14	14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.871	1.000	35.614	35.62	1.000	1.000	55.299	111	0.174	55.3
15	15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.873	1.000	37.430	37.40	1.001	1.000	54.506	109	0.182	54.5
16	16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.01	1.000	39.331	39.34	1.000	1.000	57.740	115	0.198	57.7
17	17 OCDF	5.22e5	0.87	NO	0.806	1.000	41.951	41.96	1.000	1.000	113.77	114	0.201	114
18	18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.16	1.000	26.584	26.54	1.026	1.025	91.859	91.9	0.0837	
19	19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.849	1.000	31.784	31.50	1.227	1.216	88.503	88.5	0.117	
20	20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.779	1.000	34.874	34.87	1.014	1.014	88.587	88.6	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.02	1.000	34.987	34.97	1.017	1.017	88.739	88.7	0.138	
22	22 13C-1,2,3,7,8,9-HxCDD	7.39e5	1.24	NO	0.903	1.000	35.259	35.25	1.025	1.025	87.785	87.8	0.155	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.53e5	1.04	NO	0.689	1.000	38.787	38.79	1.128	1.128	86.116	86.1	0.160	
24	24 13C-OCDD	1.01e6	0.89	NO	0.652	1.000	41.813	41.76	1.216	1.214	166.64	83.3	0.212	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.06	1.000	25.623	25.65	0.989	0.990	90.815	90.8	0.116	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.61	NO	0.838	1.000	30.163	30.21	1.165	1.167	89.693	89.7	0.169	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.57	NO	0.817	1.000	31.119	31.19	1.202	1.204	90.666	90.7	0.174	
28	28 13C-1,2,3,4,7,8-HxCDF	8.51e5	0.51	NO	1.01	1.000	34.004	33.98	0.989	0.988	90.589	90.6	0.222	
29	29 13C-1,2,3,6,7,8-HxCDF	1.01e6	0.51	NO	1.17	1.000	34.127	34.11	0.992	0.992	92.509	92.5	0.191	
30	30 13C-2,3,4,6,7,8-HxCDF	8.50e5	0.51	NO	1.02	1.000	34.702	34.70	1.009	1.009	89.276	89.3	0.219	
31	31 13C-1,2,3,7,8,9-HxCDF	7.33e5	0.50	NO	0.860	1.000	35.603	35.61	1.035	1.036	91.476	91.5	0.260	

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered: Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.33e5	0.43	NO	0.774	1.000	37.353	37.39	1.086	1.087	87.682	87.7	0.235	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	0.42	NO	0.521	1.000	39.386	39.33	1.145	1.144	83.716	83.7	0.350	
34	34 13C-OCDF	1.14e6	0.88	NO	0.746	1.000	41.985	41.95	1.221	1.220	163.83	81.9	0.148	
35	35 37Cl-2,3,7,8-TCDD	1.28e5			1.04	1.000	26.615	26.57	1.028	1.026	10.416	104	0.0149	
36	36 13C-1,2,3,4-TCDD	1.19e6	0.81	NO	1.00	1.000	26.000	25.90	1.000	1.000	100.00	100	0.0967	
37	37 13C-1,2,3,4-TCDF	1.80e6	0.79	NO	1.00	1.000	24.360	24.22	1.000	1.000	100.00	100	0.123	
38	38 13C-1,2,3,4,6,9-HxCDF	9.32e5	0.51	NO	1.00	1.000	34.420	34.39	1.000	1.000	100.00	100	0.223	

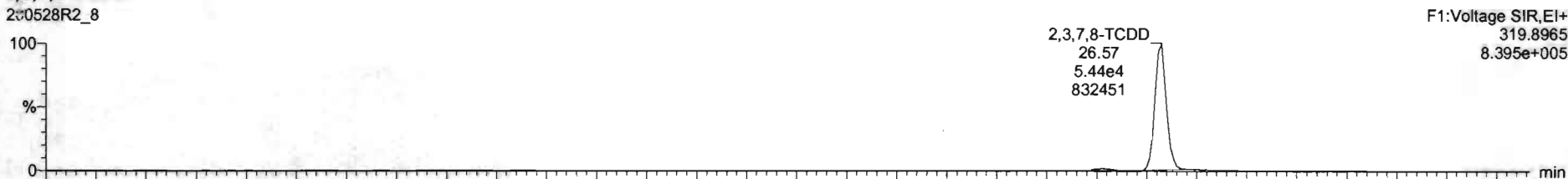
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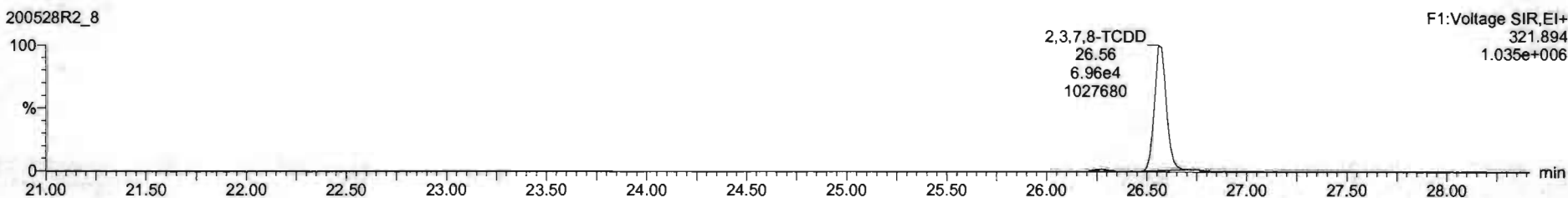
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

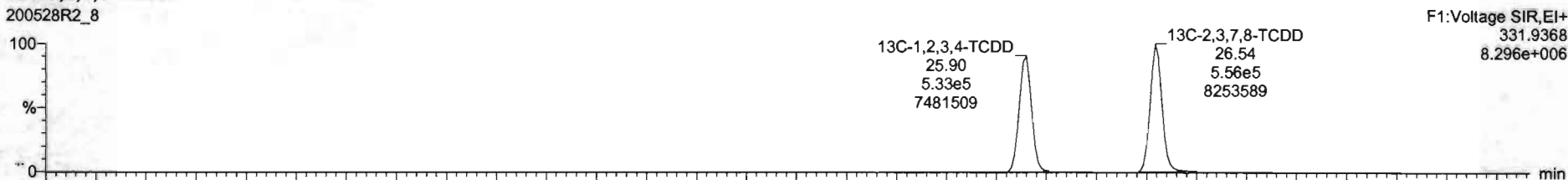
2,3,7,8-TCDD
200528R2_8



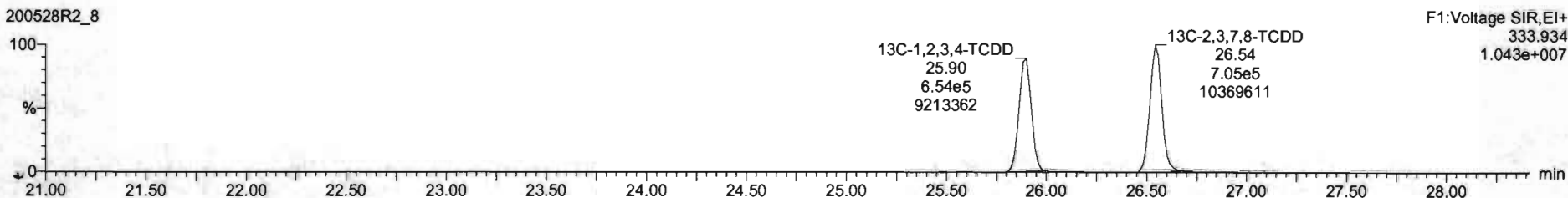
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13C-2,3,7,8-TCDD
200528R2_8



200528R2_8



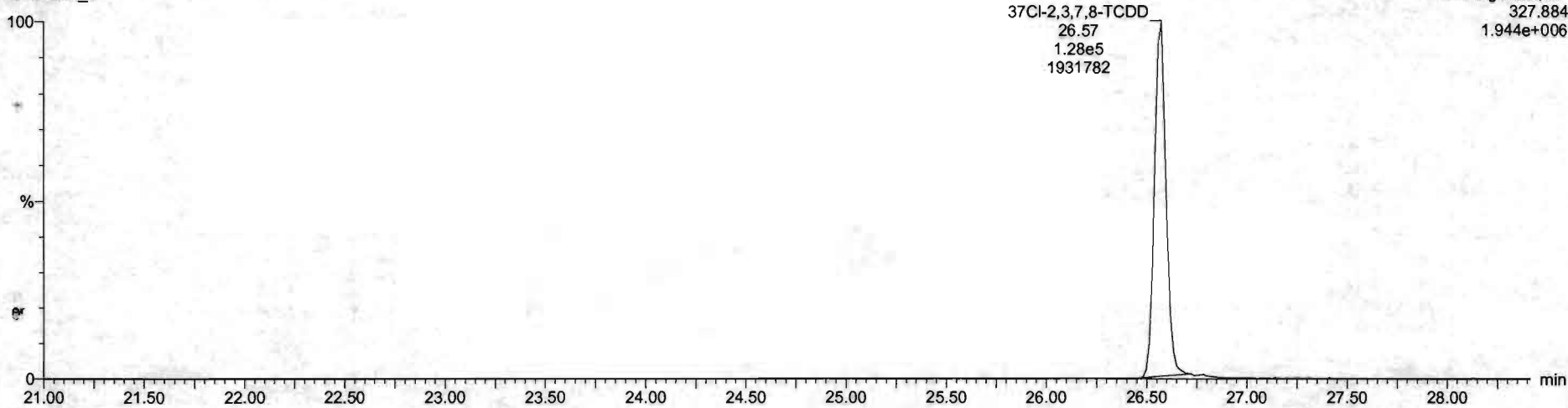
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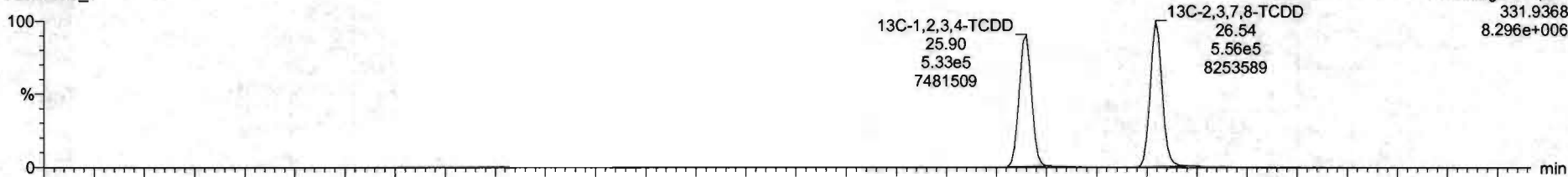
37Cl-2,3,7,8-TCDD

200528R2_8

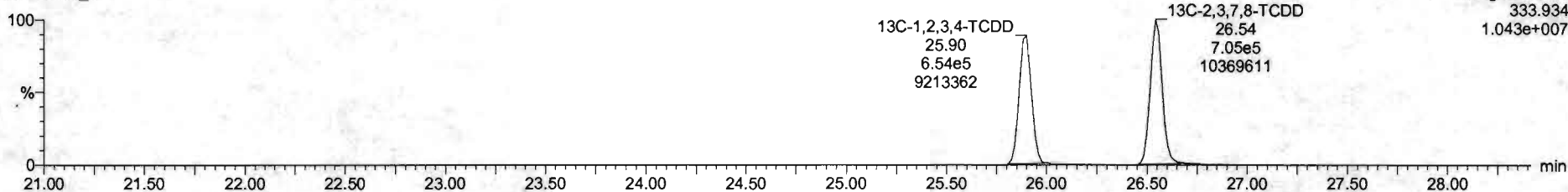


13C-1,2,3,4-TCDD

200528R2_8



200528R2_8



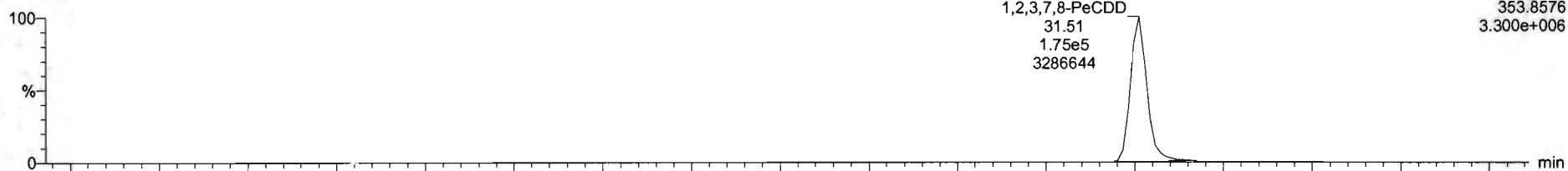
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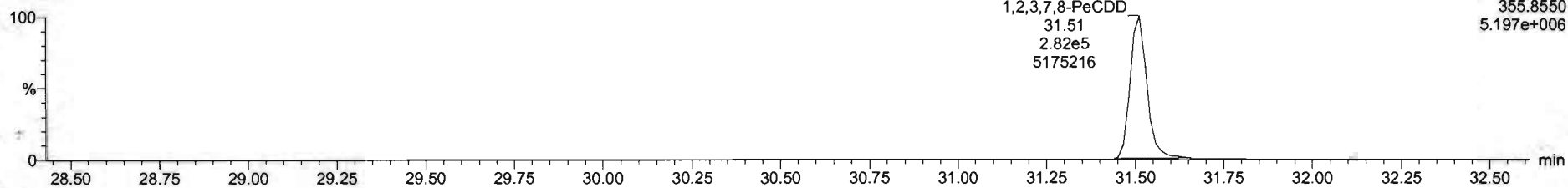
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1,2,3,7,8-PeCDD

200528R2_8

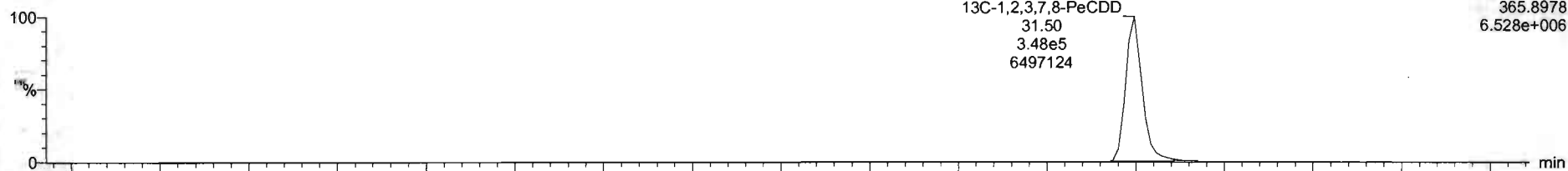


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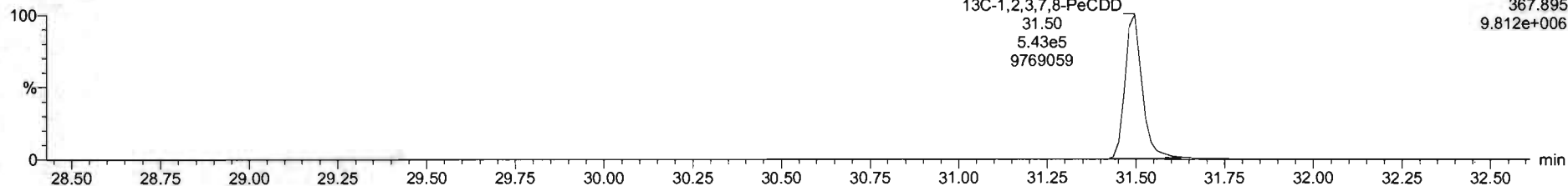


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200528R2_8



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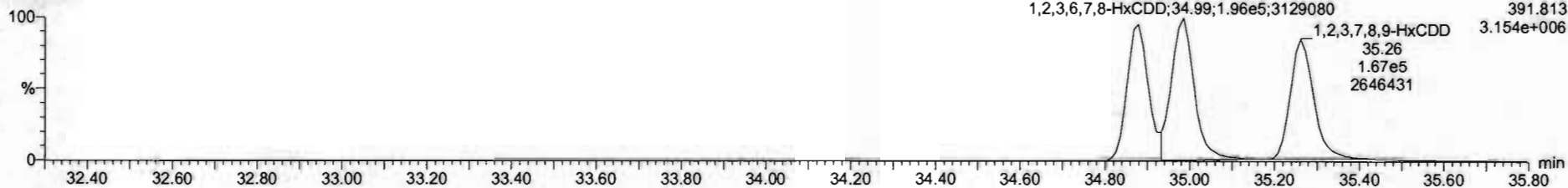
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1,2,3,4,7,8-HxCDD

200528R2_8

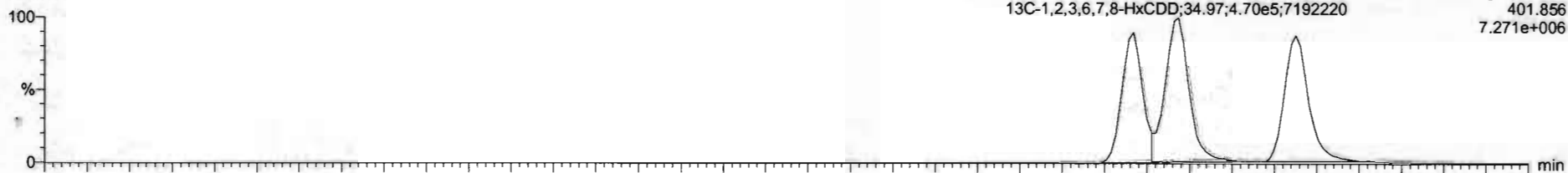


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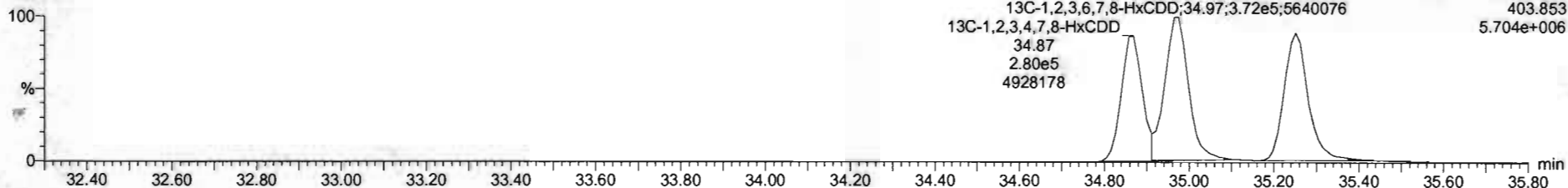


13C-1,2,3,4,7,8-HxCDD

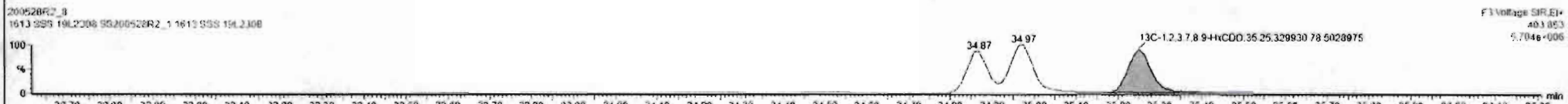
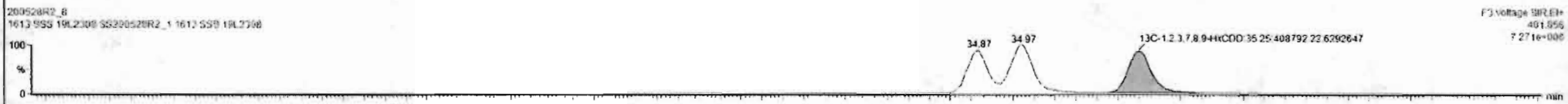
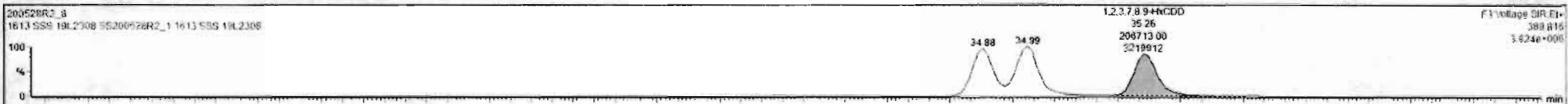
200528R2_8



200528R2_8



#	Name	Resp	RA	nby	RRF	wthvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.6883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.72	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.6969	1.000	35.26	1.009	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.57e5	1.02	NO	0.8639	1.000	36.50	1.000	55.6	112	0.160	55.6
7	OCDD	5.24e5	0.85	NO	0.9136	1.000	41.78	1.001	113	113	0.171	113
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	113	0.0942	55.7
10	2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	21.21	1.000	62.1	124	0.0853	62.1
11	1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	115	0.114	58.9
12	1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8892	1.000	34.12	1.000	59.1	116	0.108	59.1
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.52e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	115	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.190	59.2
17	OCDF	5.22e5	0.97	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1583	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7750	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.28	NO	1.0187	1.000	34.97	1.017	88.7	88.7	0.138	



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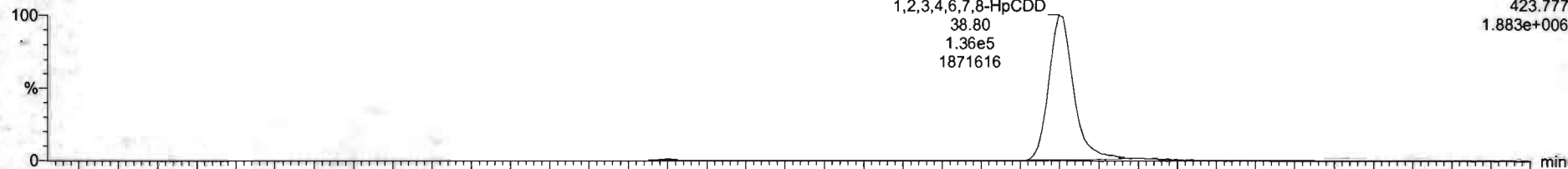
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

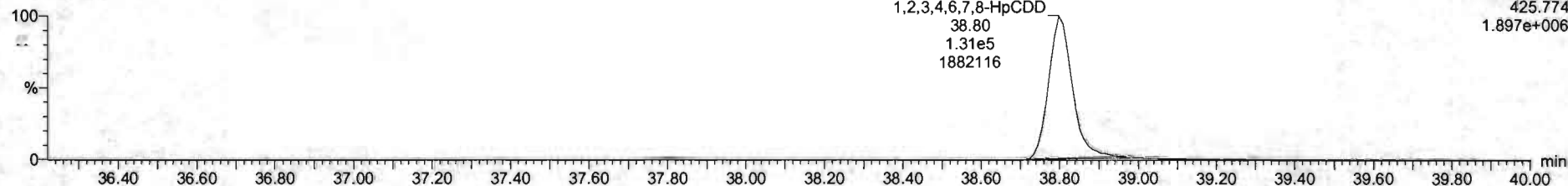
1,2,3,4,6,7,8-HpCDD

200528R2_8



F4: Voltage SIR, EI+
423.777
1.883e+006

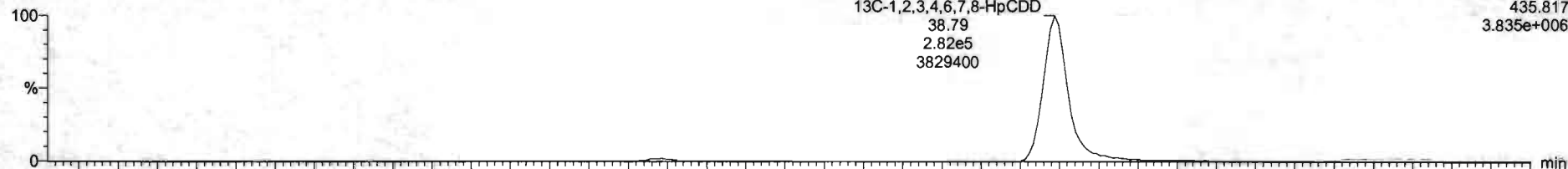
200528R2_8



F4: Voltage SIR, EI+
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1.897e+006

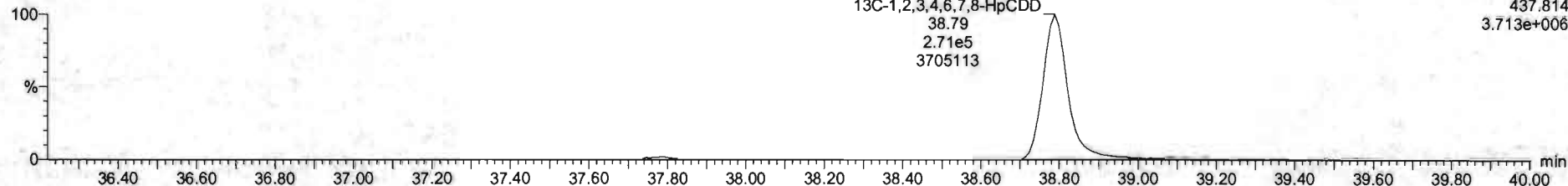
13C-1,2,3,4,6,7,8-HpCDD

200528R2_8



F4: Voltage SIR, EI+
435.817
3.835e+006

200528R2_8



F4: Voltage SIR, EI+
437.814
3.713e+006

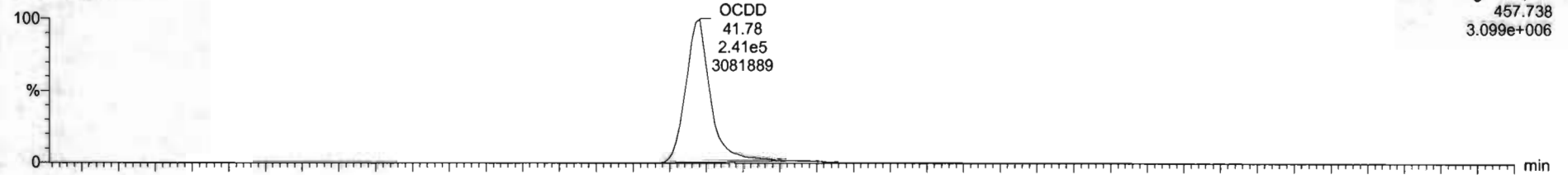
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

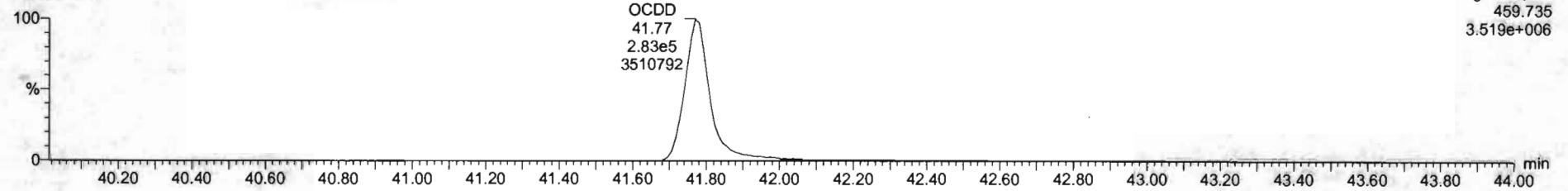
OCDD

200528R2_8



F5: Voltage SIR, EI+
457.738
3.099e+006

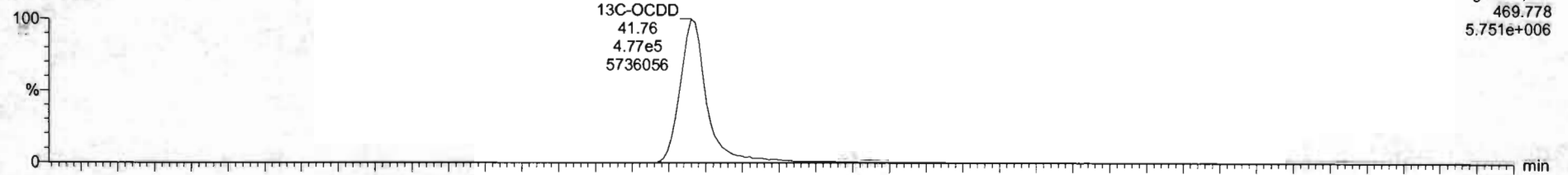
200528R2_8



F5: Voltage SIR, EI+
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3.519e+006

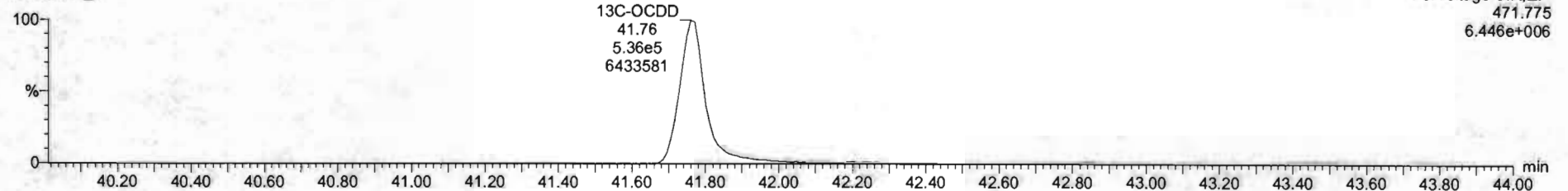
13C-OCDD

200528R2_8



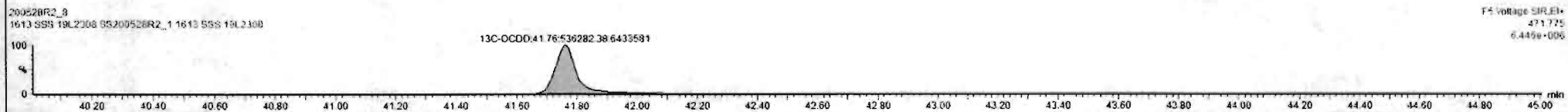
F5: Voltage SIR, EI+
469.778
5.751e+006

200528R2_8



F5: Voltage SIR, EI+
471.775
6.446e+006

Name	Resp	RA	dy	RRF	wtVol	RT	RRT	Conc	%Rec	OL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.1
3 1,2,3,4,7,8-HxCDD	2.86e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	58.0
4 1,2,3,6,7,8-HxCDD	4.38e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.105	56.8
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	58.6
7 OCDD	5.15e5	0.88	NO	0.9138	1.000	41.78	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.88	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.77e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10 2,3,4,7,8-PeCDF	7.62e5	1.54	NO	0.9348	1.000	31.21	1.000	62.1	124	0.0853	62.1
11 1,2,3,4,7,8-HxCDF	4.38e5	1.19	NO	0.8545	1.000	33.99	1.000	58.9	115	0.114	58.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8852	1.000	34.12	1.000	59.1	115	0.100	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.21	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	119	0.193	59.2
17 OCDF	5.22e5	0.87	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0627	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



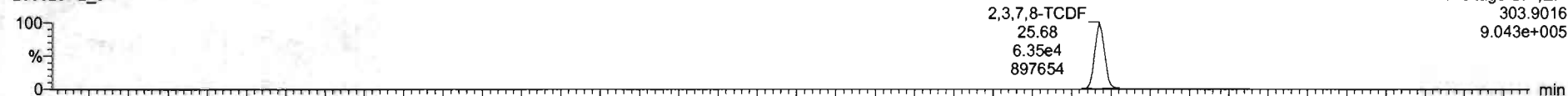
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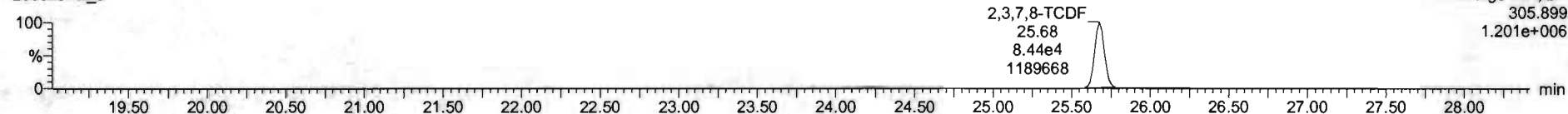
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2,3,7,8-TCDF

200528R2_8

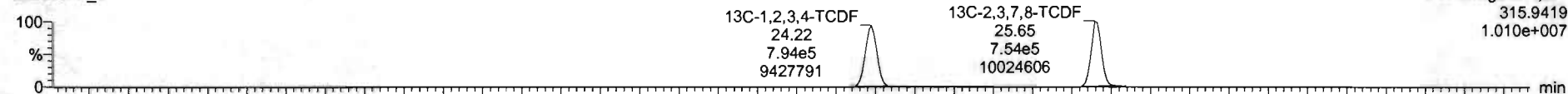


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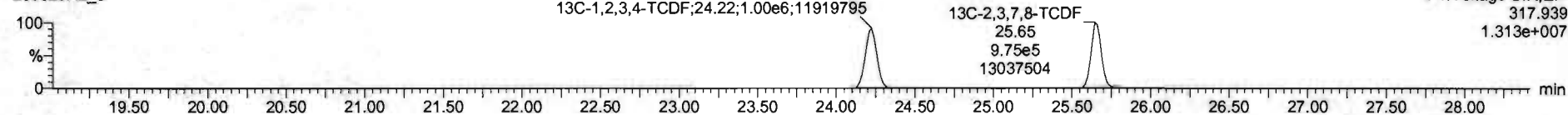


13C-2,3,7,8-TCDF

200528R2_8

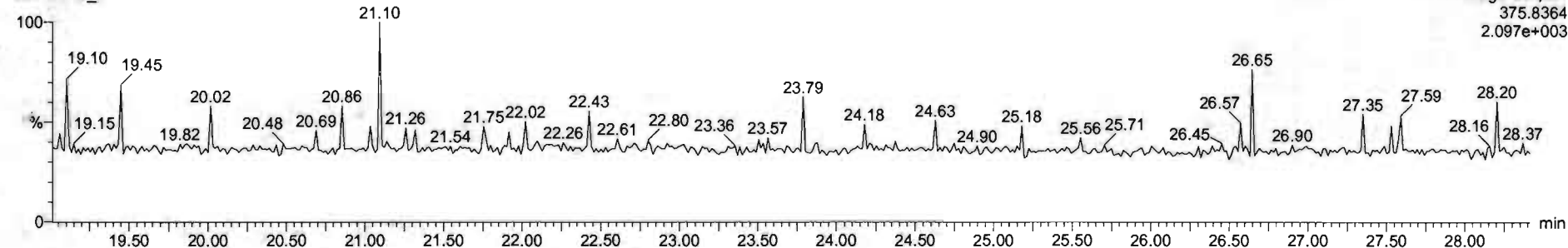


200528R2_8



DPE1

200528R2_8



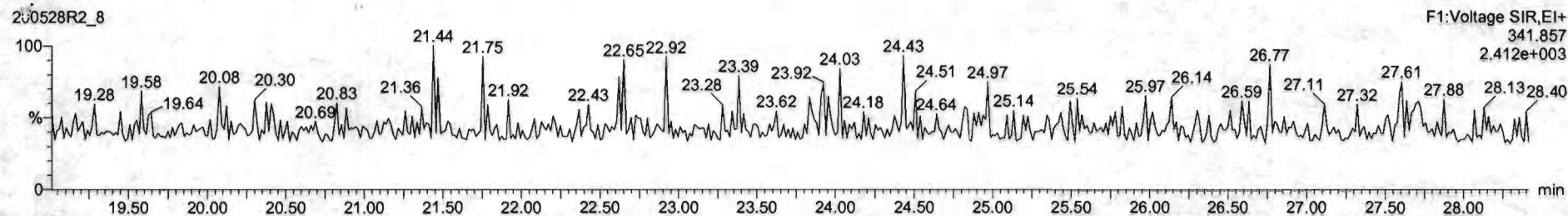
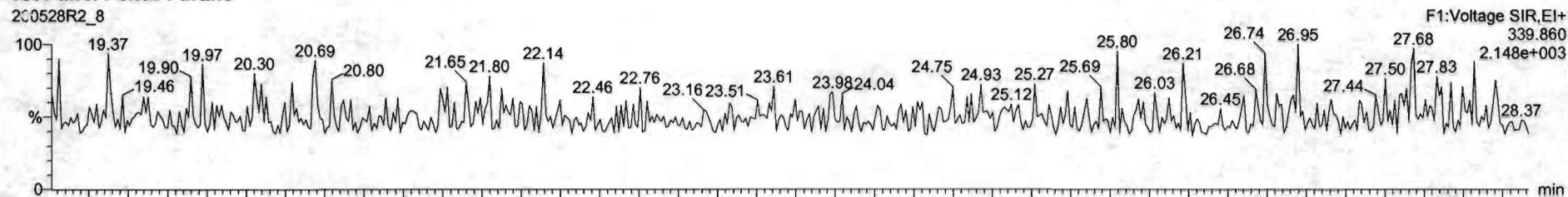
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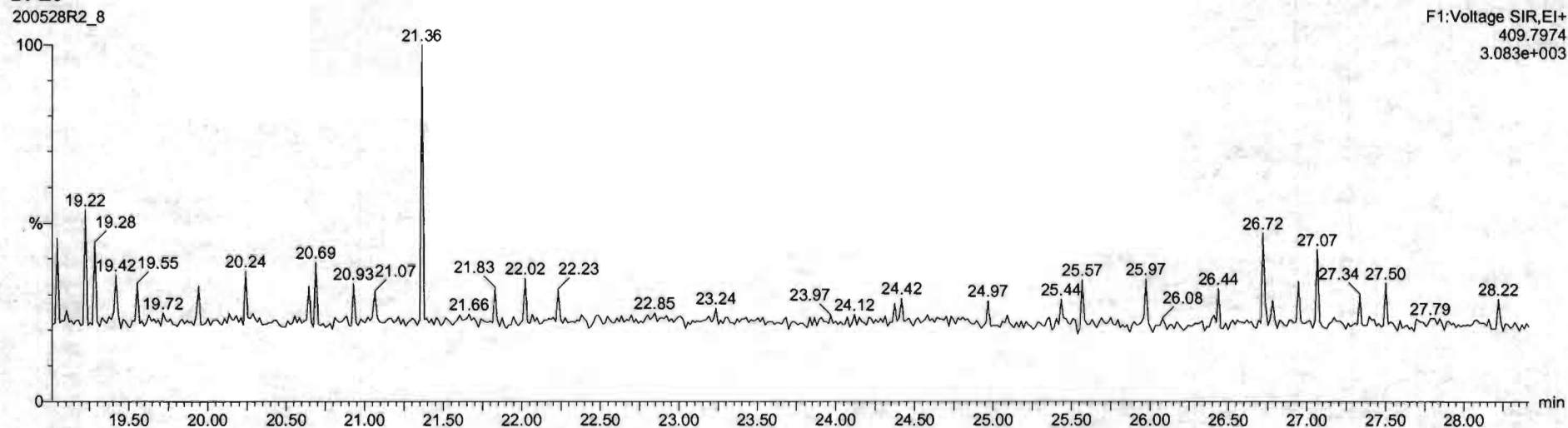
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Name: 200528R2_8, Date: 28-May-2020, Time: 17:24:01, ID: SS200528R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



DPE6



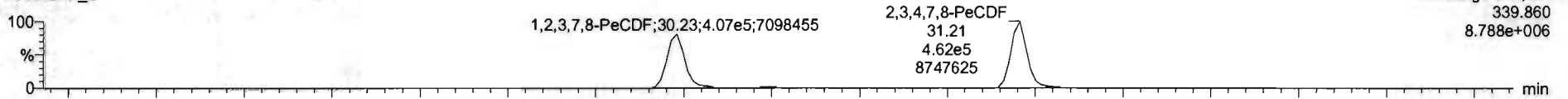
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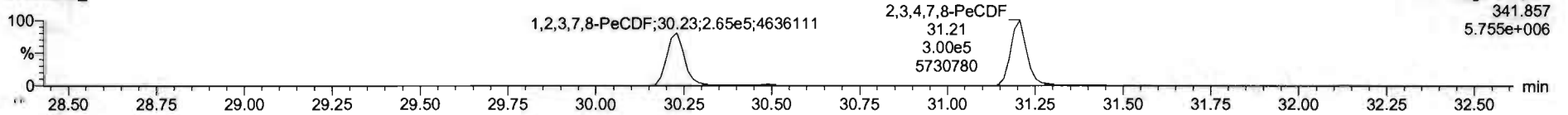
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1,2,3,7,8-PeCDF

200528R2_8

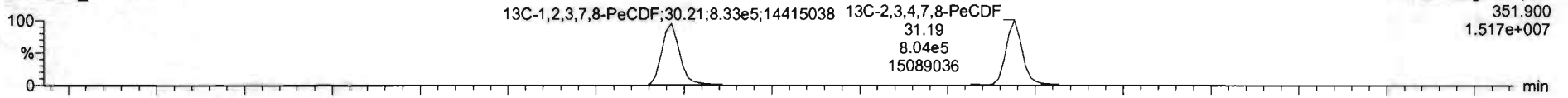


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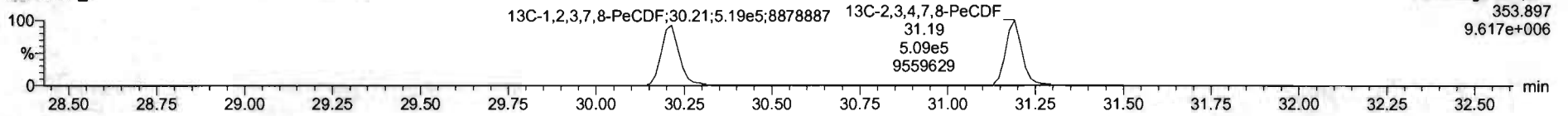


13C-1,2,3,7,8-PeCDF

200528R2_8

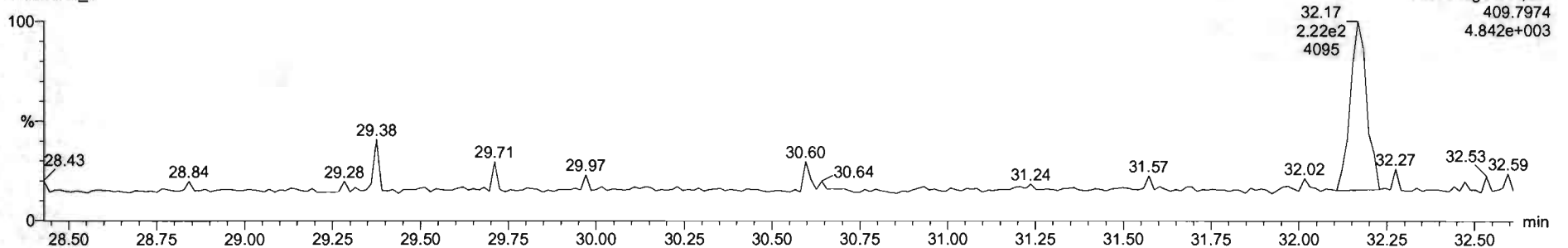


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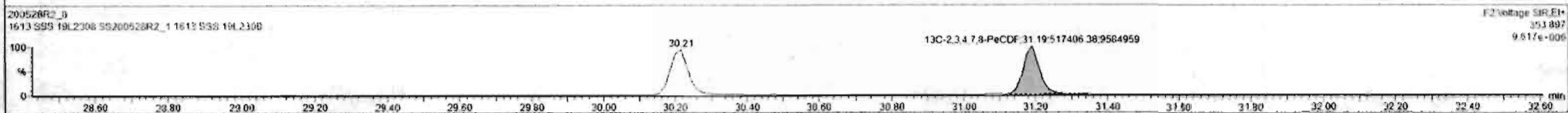
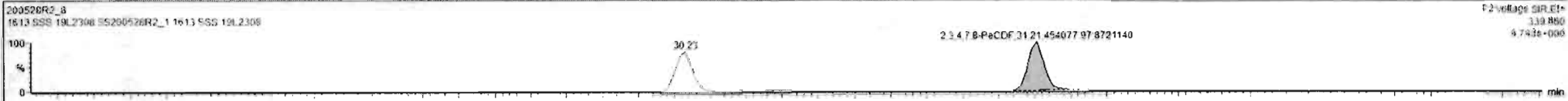


DPE2

200528R2_8



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	2.06e5	1.22	NO	1.0334	1.000	34.85	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	34.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8264	1.000	35.05	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.87e5	1.02	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.38	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0323	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	20.23	1.001	55.7	111	0.0947	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.36e5	1.19	NO	0.8845	1.000	23.99	1.000	58.9	118	0.114	56.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8852	1.000	34.12	1.000	59.1	118	0.108	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	86.6	86.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.128	



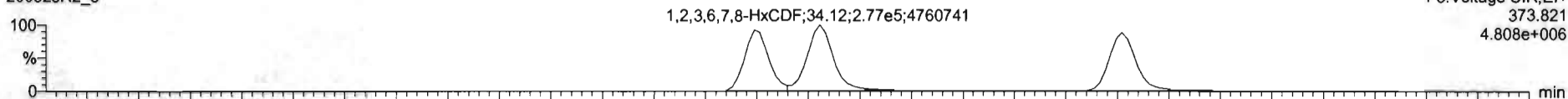
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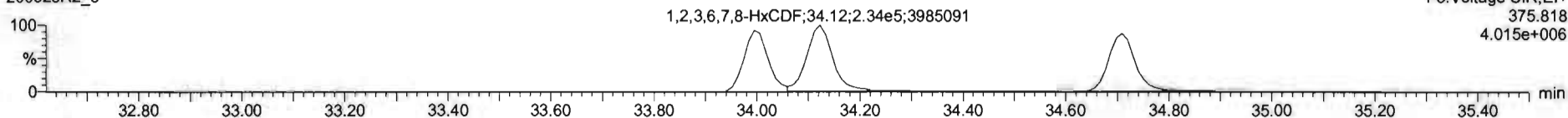
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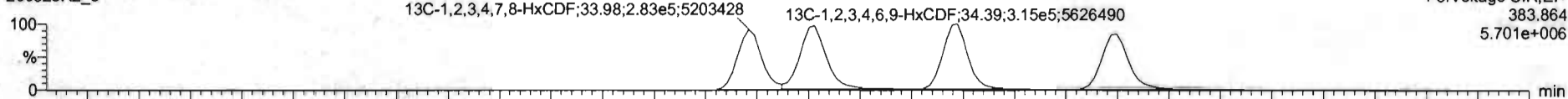


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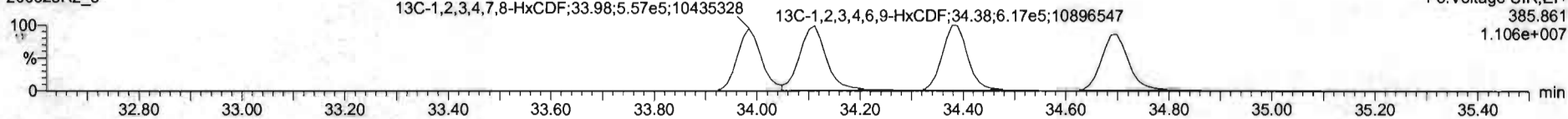


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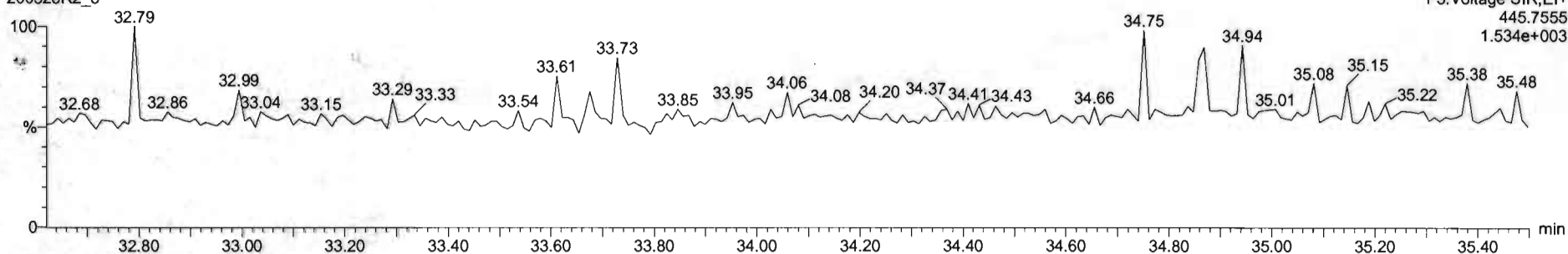


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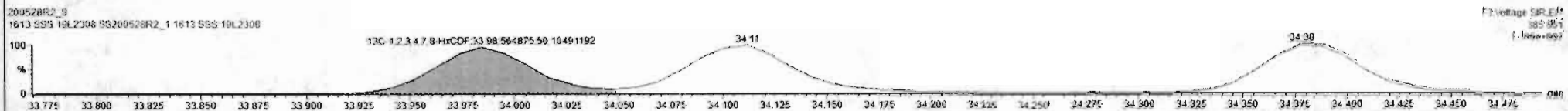
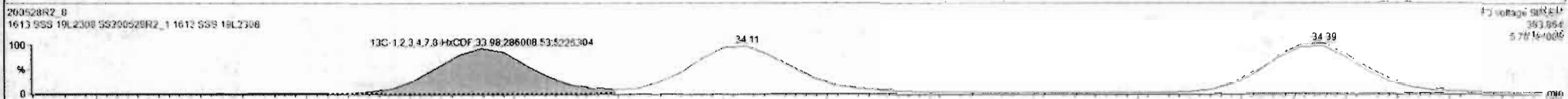
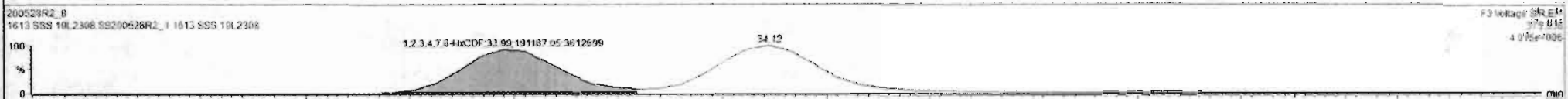
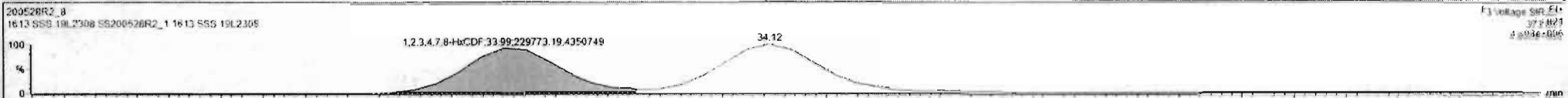


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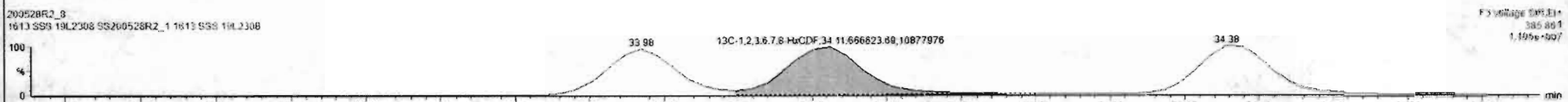
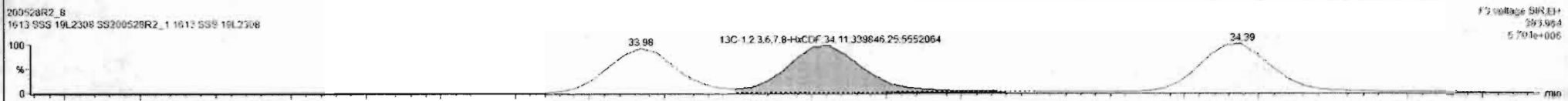
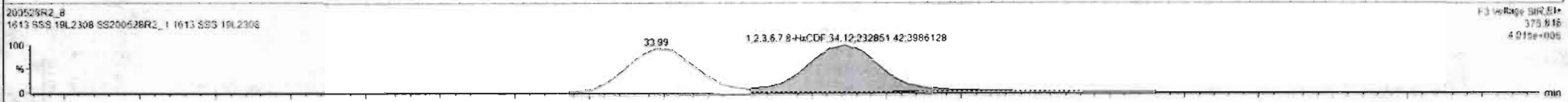
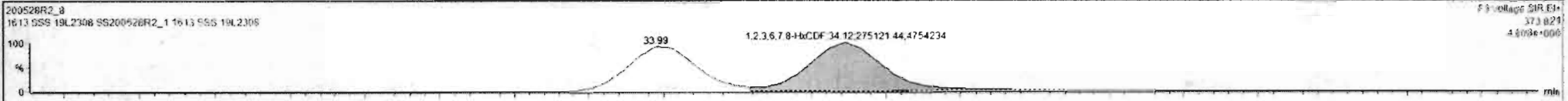
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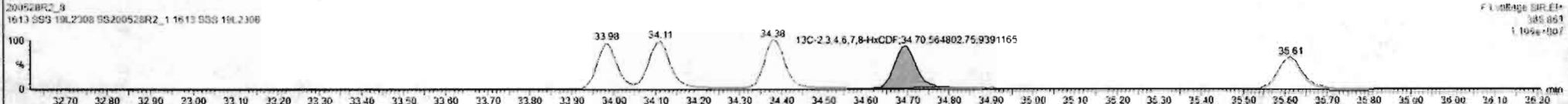
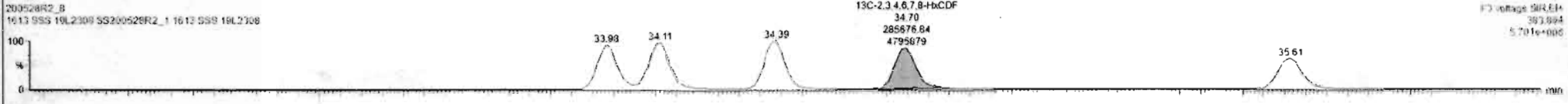
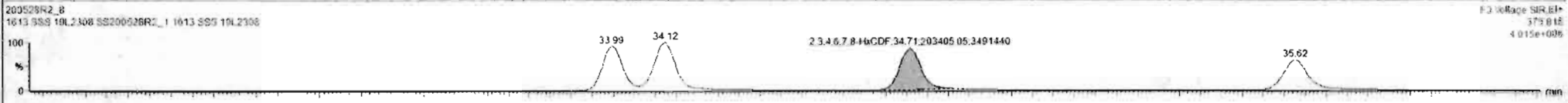
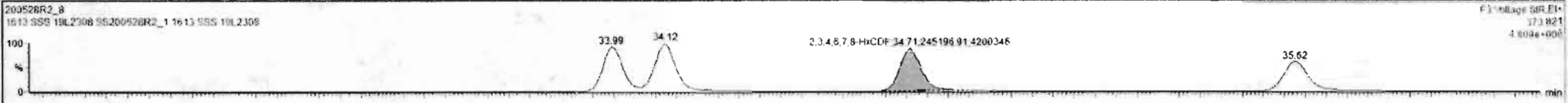
Name	Resp	RA	nly	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.57	1.001	11.1	111	0.0262	11.1
2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.8981	1.000	31.51	1.000	56.4	113	0.0622	56.4
3 1,2,3,4,7,8-HxCDD	3.26e5	1.22	NO	1.0334	1.000	24.86	1.000	56.0	116	0.1011	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	24.99	1.000	58.0	116	0.105	56.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	25.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	25.50	1.000	55.6	112	0.168	55.6
7 OCDD	5.15e5	0.68	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7519	1.000	25.65	1.001	11.4	114	0.0333	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10 1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9346	1.000	21.21	1.000	60.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	23.99	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.11e5	1.18	NO	0.8862	1.000	24.12	1.000	59.1	118	0.100	59.1
13 2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	24.71	1.000	57.2	114	0.117	57.2
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,5,7,8-HpCDF	3.16e5	1.01	NO	0.8734	1.000	27.40	1.000	58.9	118	0.186	58.9
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0120	1.000	39.34	1.000	59.2	118	0.199	59.2
17 OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	86.5	88.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	85.6	88.6	0.160	
21 13C-1,2,3,6,7,8-HxCDD	6.41e5	1.36	NO	1.0187	1.000	24.97	1.017	88.7	88.7	0.138	



#	Name	Reap	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8863	1.000	26.67	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.53	1.000	56.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.0334	1.000	34.86	1.000	56.0	116	0.101	56.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8973	1.000	34.99	1.000	58.0	116	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8969	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,5,7,8-HpCDD	2.67e5	1.02	NO	0.8639	1.000	36.60	1.000	55.6	112	0.168	55.6
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0542	55.7
10	1,2,3,7,8,9-HxCDF	7.50e5	1.54	NO	0.9348	1.000	21.21	1.000	60.2	120	0.0851	60.2
11	1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.6845	1.000	23.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	5.06e5	1.18	NO	0.6892	1.000	34.12	1.000	56.3	114	0.127	56.3
13	2,3,4,6,7,8-HxCDF	4.54e5	1.21	NO	0.9341	1.000	34.71	1.000	57.2	114	0.117	57.2
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,5,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.186	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17	OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.76e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.5	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.176	



SL	Name	Resp	RA	Adj	RFI	WVol	RT	RRT	Conc	%Rec	DL	EMFC
1	2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	28.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	56.4
3	1,2,3,4,7,8-HxCDD	3.66e5	1.22	NO	1.0314	1.000	34.88	1.000	56.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8923	1.000	34.99	1.000	58.0	116	0.100	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8869	1.000	35.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.9039	1.000	38.80	1.000	55.8	112	0.160	55.8
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.66	1.001	11.4	114	0.0333	11.4
9	1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0942	55.7
10	1,2,3,4,7,8-HxCDF	7.50e5	1.54	NO	0.9148	1.000	31.21	1.000	60.2	120	0.0851	60.2
11	1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	5.06e5	1.16	NO	0.8852	1.000	34.12	1.000	56.8	114	0.107	56.8
13	2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8787	1.000	35.62	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.18e5	1.01	NO	0.8734	1.000	37.40	1.000	58.9	118	0.196	58.9
16	1,2,3,4,7,8,9-HpCDF	2.44e5	1.00	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17	OCDF	5.22e5	0.87	NO	0.8085	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.75	NO	1.1563	1.000	28.54	1.025	91.9	91.9	0.0637	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.84	NO	0.8490	1.000	31.50	1.216	88.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	86.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	34.97	1.017	88.7	88.7	0.136	



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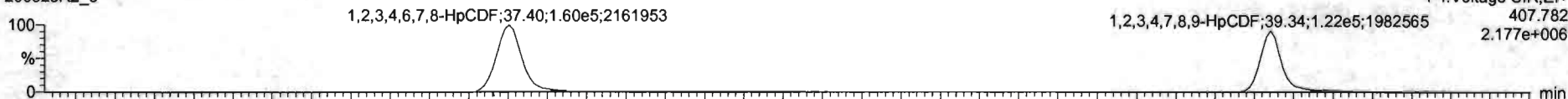
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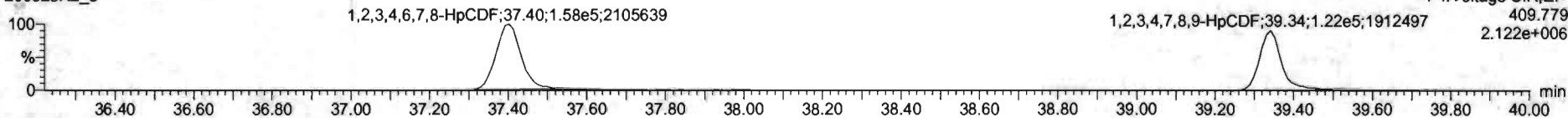
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200528R2_8



200528R2_8

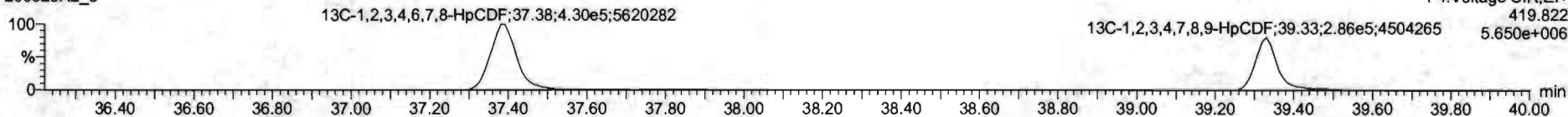


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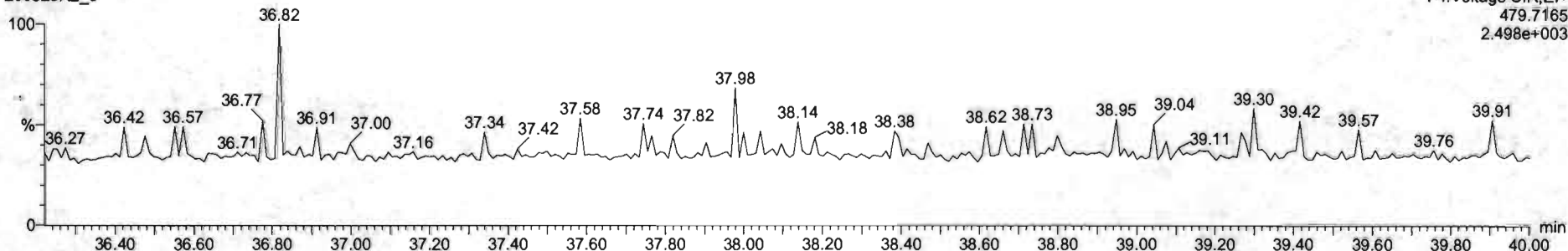


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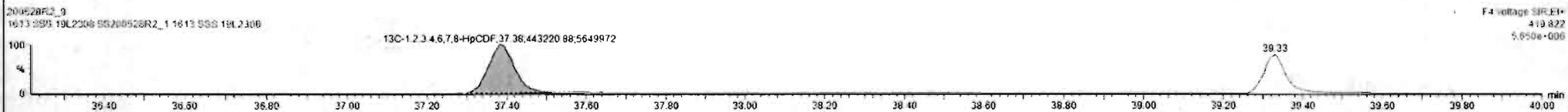
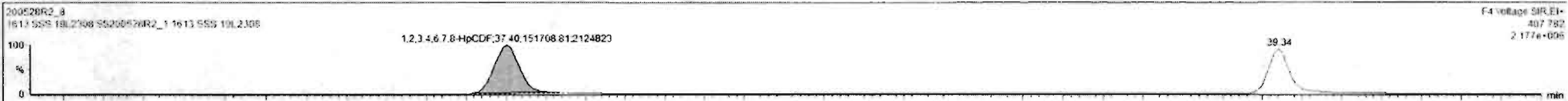


DPE4

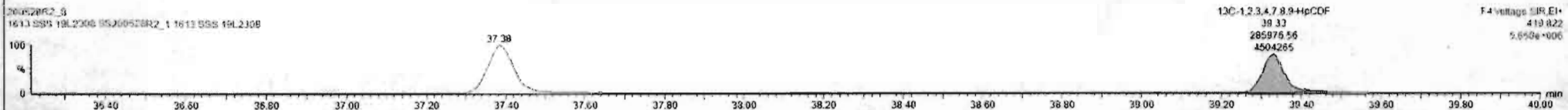
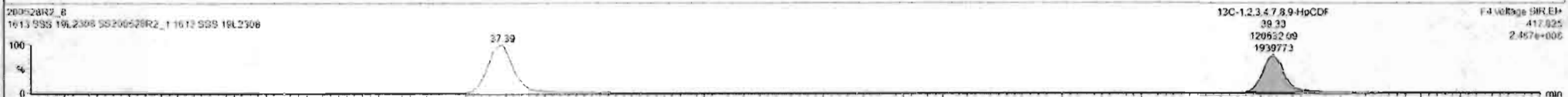
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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0252	11.1
2 1,2,3,7,8-PeCDD	5.57e5	0.62	NO	0.9081	1.000	31.51	1.000	58.4	113	0.0622	58.4
3 1,2,3,4,7,8-HxCDD	3.56e5	1.22	NO	1.0334	1.000	34.88	1.000	56.0	116	0.101	56.0
4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8523	1.000	34.99	1.000	58.0	118	0.105	58.0
5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	35.26	1.000	57.1	114	0.119	57.1
6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.8639	1.000	36.80	1.000	55.8	112	0.168	55.8
7 OCDD	5.15e5	0.88	NO	0.9136	1.000	41.75	1.001	111	111	0.171	111
8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0533	11.4
9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.8025	1.000	30.23	1.001	25.7	111	0.0542	55.7
10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.9348	1.000	31.21	1.000	50.2	120	0.0851	60.2
11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.8845	1.000	33.95	1.000	55.9	112	0.113	55.9
12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.8862	1.000	34.12	1.000	56.8	114	0.107	56.8
13 2,3,4,6,7,8-HxCDF	4.45e5	1.21	NO	0.9341	1.000	34.71	1.000	56.5	113	0.117	56.5
14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	35.62	1.000	55.3	111	0.174	55.3
15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.48	1.000	54.5	108	0.152	54.5
16 1,2,3,4,7,8,9-HpCDF	2.44e5	1.09	NO	1.0128	1.000	39.34	1.000	59.2	118	0.198	59.2
17 OCDF	5.27e5	0.87	NO	0.8055	1.000	41.96	1.000	114	114	0.201	114
18 13C-2,3,7,8-TCDD	1.26e8	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0637	
19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8450	1.000	31.50	1.216	66.5	68.5	0.117	
20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	34.87	1.014	86.6	88.6	0.180	
21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.0167	1.000	34.97	1.017	86.7	86.7	0.138	



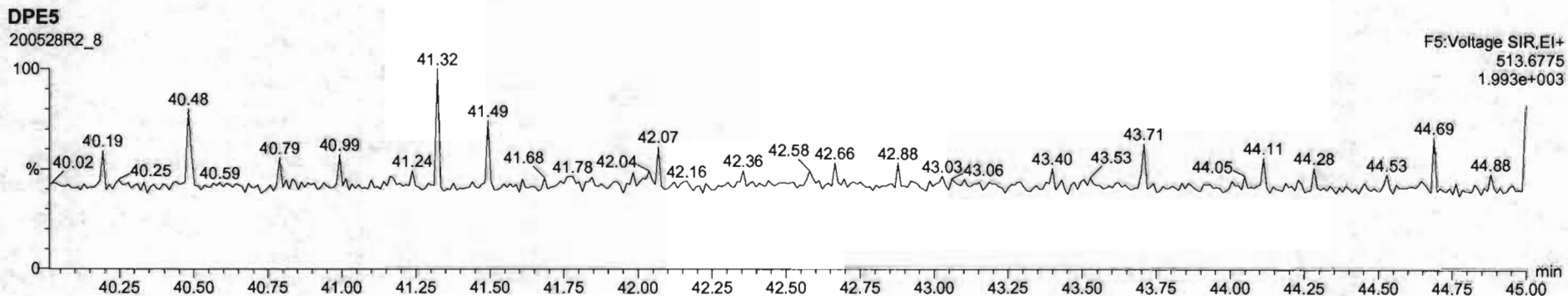
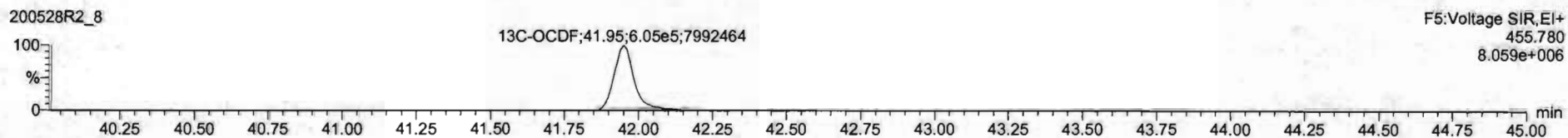
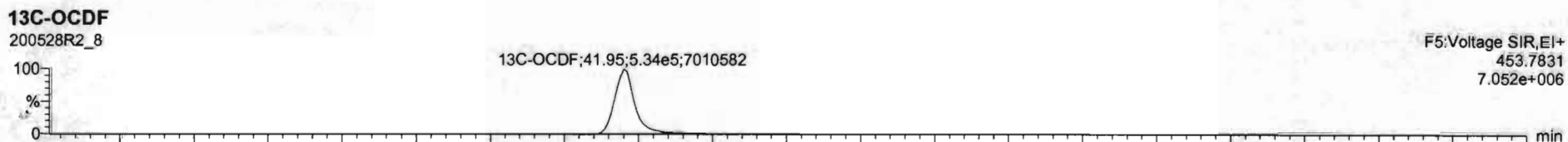
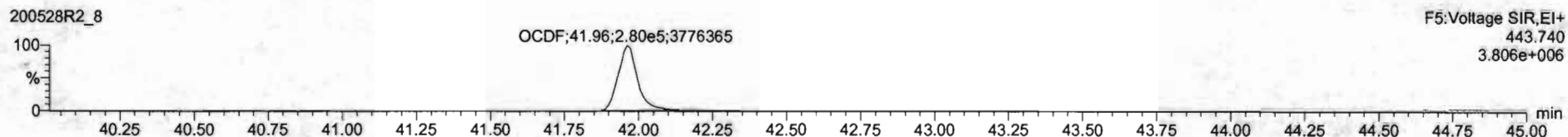
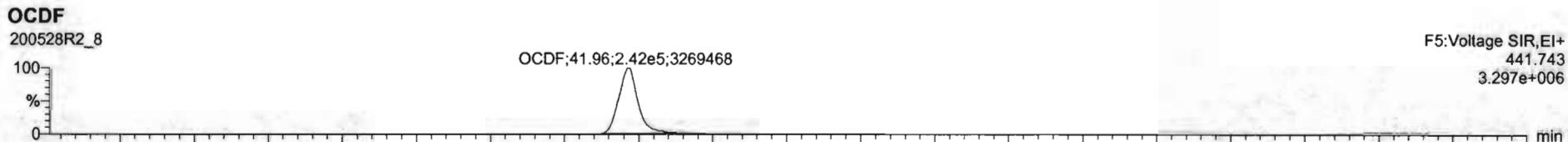
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1	2,3,7,8-TCDD	1.24e5	0.76	NO	0.8883	1.000	26.57	1.001	11.1	111	0.0262	11.1
2	1,2,3,7,8-PeCDD	4.57e5	0.82	NO	0.9081	1.000	31.01	1.000	58.4	113	0.0622	58.4
3	1,2,3,4,7,8-HxCDD	2.56e5	1.22	NO	1.0334	1.000	24.86	1.000	58.0	116	0.101	58.0
4	1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.8925	1.000	24.99	1.000	58.0	116	0.105	58.0
5	1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.8265	1.000	26.26	1.000	57.1	114	0.119	57.1
6	1,2,3,4,6,7,8-HpCDD	2.61e5	1.03	NO	0.8639	1.000	26.60	1.000	55.6	112	0.168	55.6
7	OCDD	5.15e5	0.88	NO	0.9136	1.000	41.78	1.001	111	111	0.171	111
8	2,3,7,8-TCDF	1.48e5	0.75	NO	0.7510	1.000	25.68	1.001	11.4	114	0.0303	11.4
9	1,2,3,7,8-PeCDF	4.72e5	1.54	NO	0.8925	1.000	30.23	1.001	55.7	111	0.0642	55.7
10	2,3,4,7,8-PeCDF	7.58e5	1.54	NO	0.9346	1.000	31.21	1.000	50.2	126	0.0851	60.2
11	1,2,2',4,7,8-HxCDF	4.21e5	1.20	NO	0.8545	1.000	33.99	1.000	55.9	112	0.113	55.9
12	1,2,3,6,7,8-HxCDF	2.08e5	1.18	NO	0.8892	1.000	34.12	1.000	58.8	114	0.107	58.8
13	2,3,4,6,7,8-HxCDF	4.48e5	1.21	NO	0.9341	1.000	24.71	1.000	58.5	113	0.117	58.5
14	1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.8707	1.000	25.82	1.000	55.3	111	0.174	55.3
15	1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.8734	1.000	37.40	1.000	54.5	109	0.182	54.5
16	1,2,3,4,7,8,9-HpCDF	2.35e5	1.00	NO	1.0128	1.000	39.24	1.000	57.3	115	0.198	57.3
17	OCDF	5.27e5	0.67	NO	0.8065	1.000	41.96	1.000	114	114	0.201	114
18	13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.1563	1.000	26.54	1.025	91.9	91.9	0.0837	
19	13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.8490	1.000	31.50	1.216	86.5	88.5	0.117	
20	13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.7790	1.000	24.87	1.014	88.6	88.6	0.180	
21	13C-1,2,3,6,7,8-HxCDD	6.41e5	1.26	NO	1.0167	1.000	24.97	1.017	88.7	88.7	0.138	



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Printed: Friday, May 29, 2020 7:38:30 AM Pacific Daylight Time

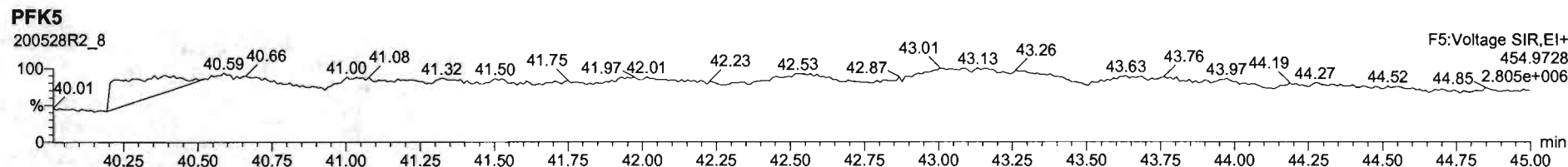
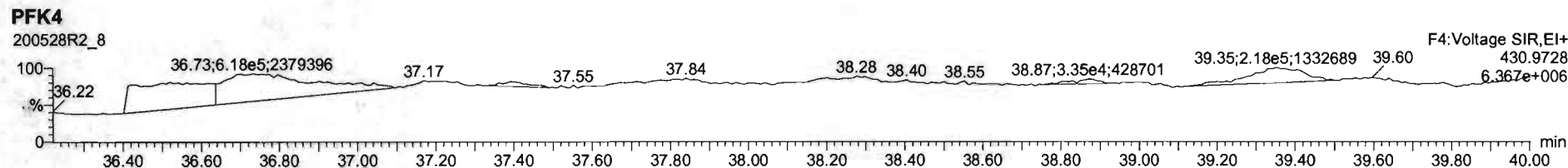
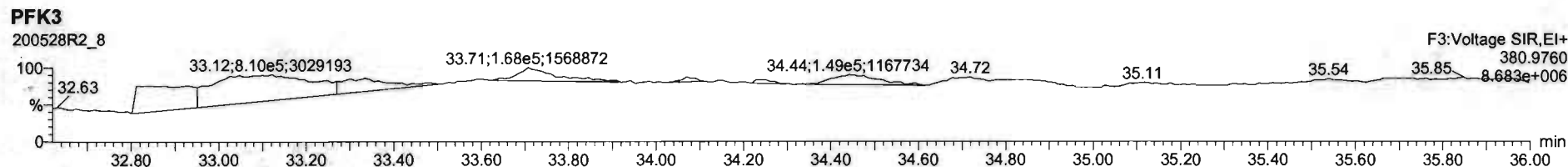
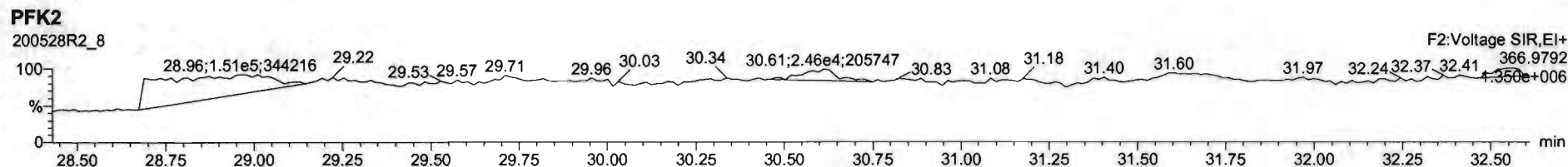
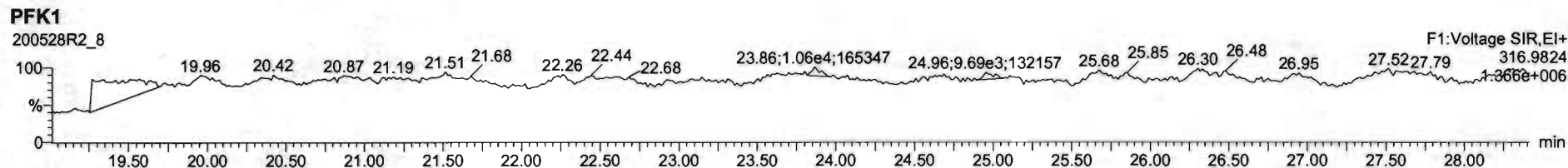
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Dataset: Untitled

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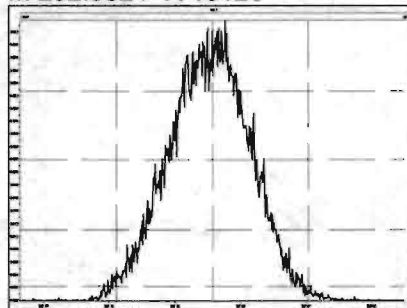
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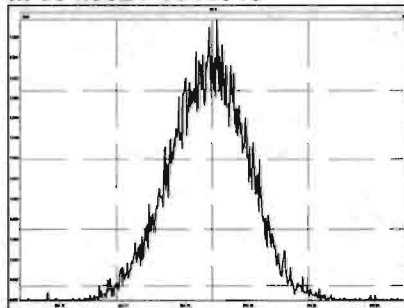
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

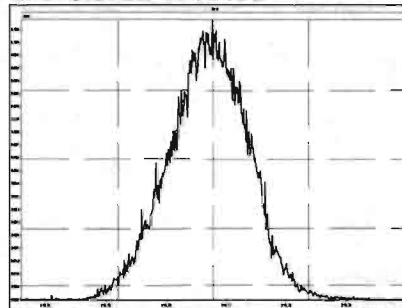
M 292.9824 R 10120



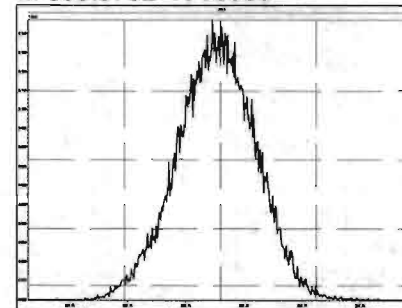
M 304.9824 R 11015



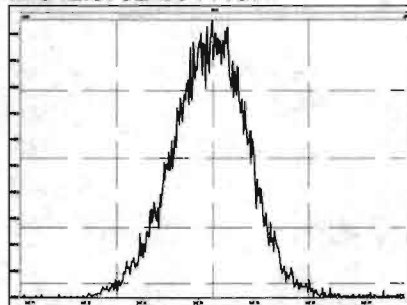
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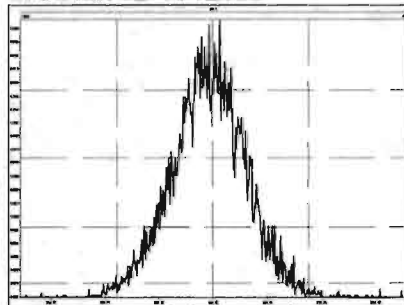
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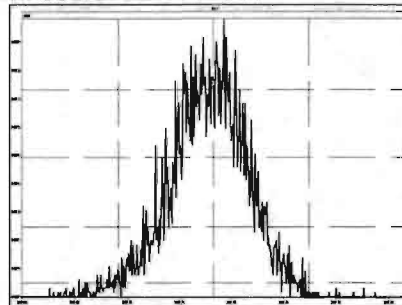
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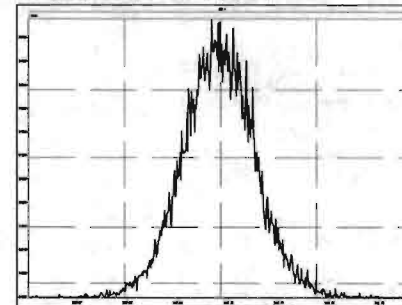
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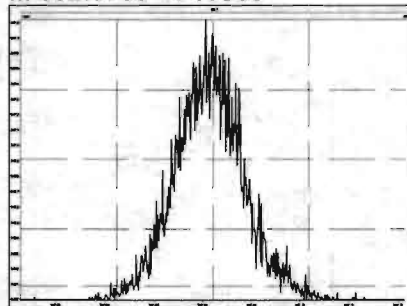
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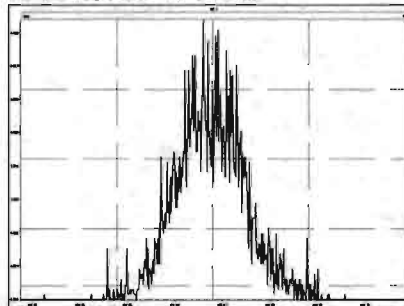
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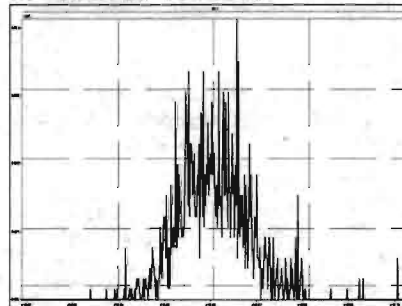
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M 404.9760 R 14045



M 416.9760 R 18245



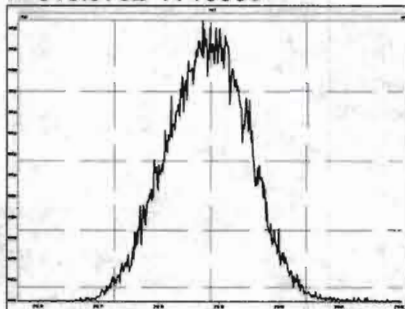
Experiment Calibration Report

MassLynx 4.1 SCN815

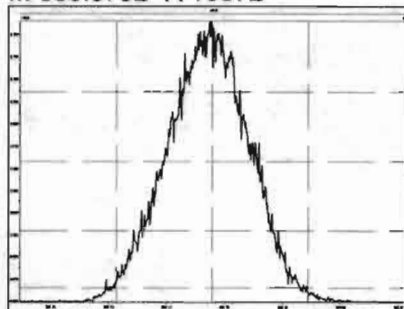
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Printed: Friday, May 29, 2020 07:19:21 Pacific Daylight Time

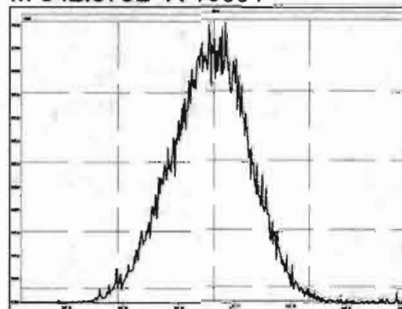
M 318.9792 R 10000



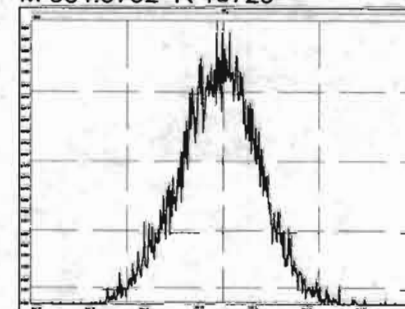
M 330.9792 R 10372



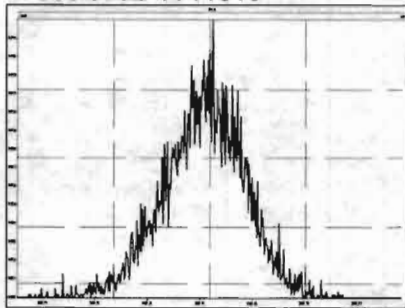
M 342.9792 R 10001



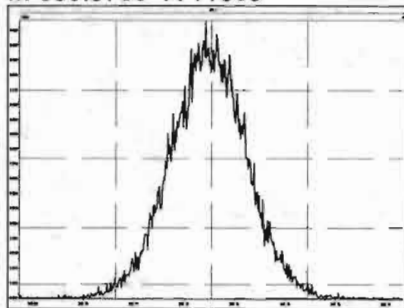
M 354.9792 R 10729



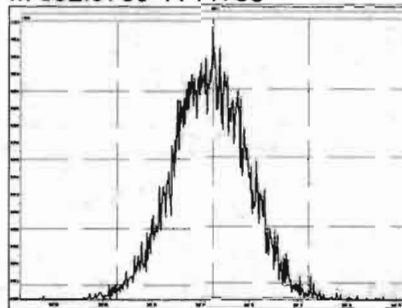
M 366.9792 R 11015



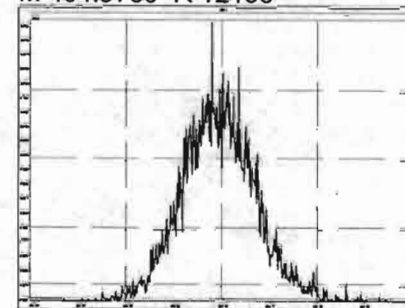
M 380.9760 R 11009



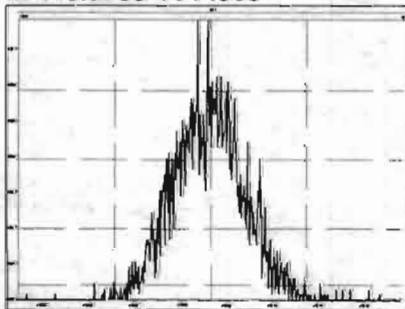
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M 404.9760 R 12196



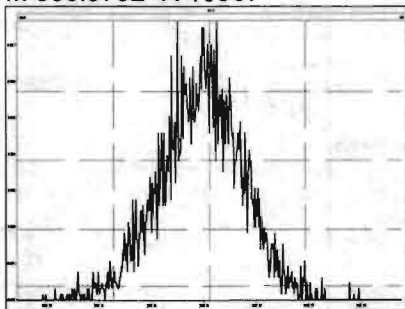
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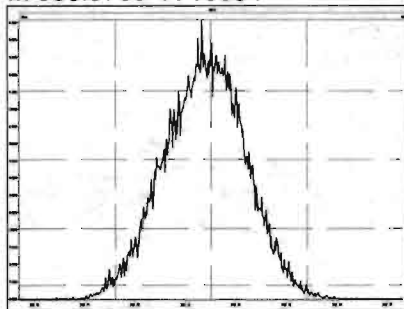
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Printed: Friday, May 29, 2020 07:19:38 Pacific Daylight Time

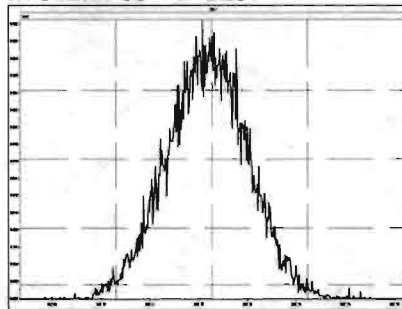
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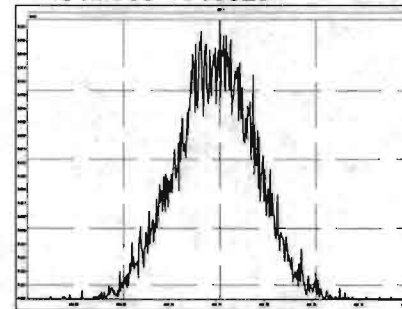
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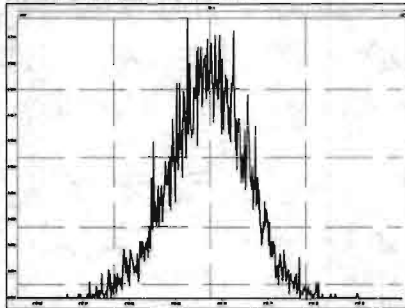
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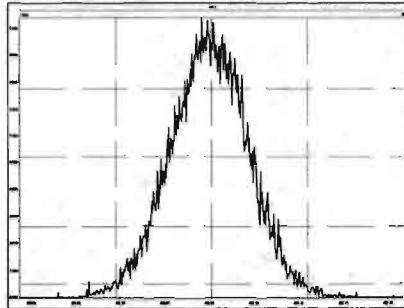
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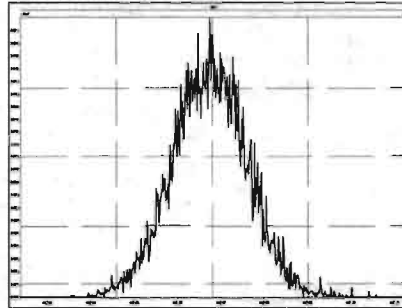
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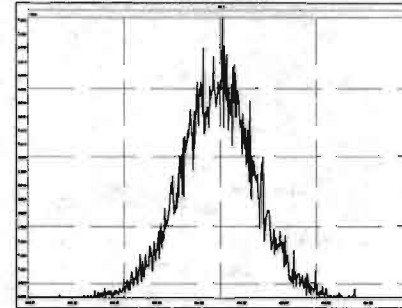
M 430.9728 R 11208



M 442.9728 R 12195



M 454.9728 R 10963



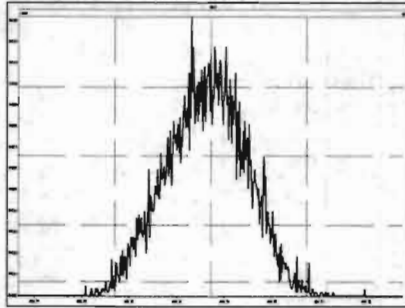
Experiment Calibration Report

MassLynx 4.1 SCN815

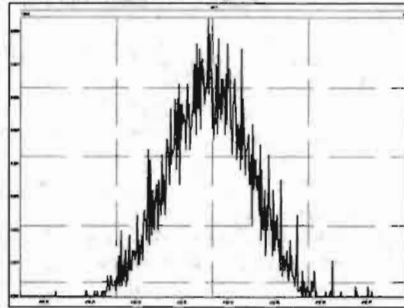
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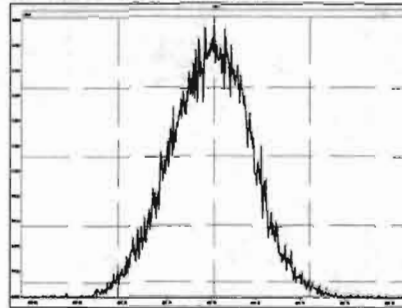
M 404.9760 R 10963



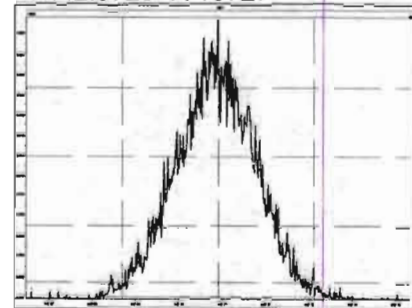
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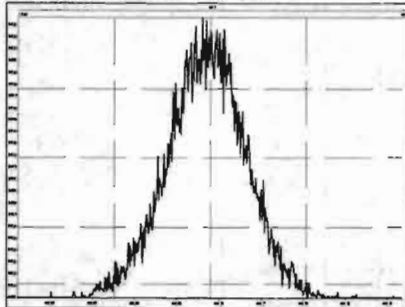
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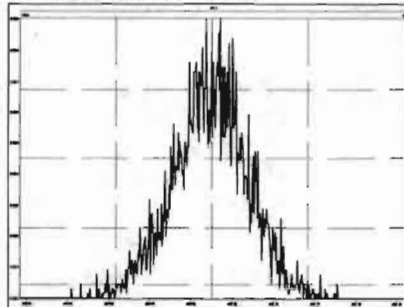
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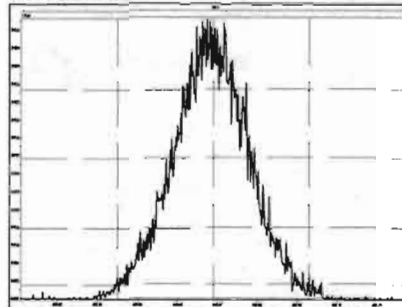
M 454.9728 R 11792



M 466.9728 R 12628



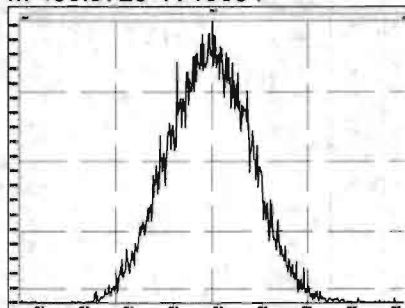
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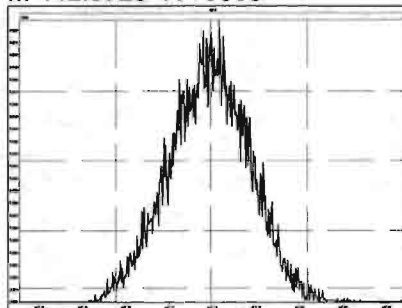
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Printed: Friday, May 29, 2020 07:20:18 Pacific Daylight Time

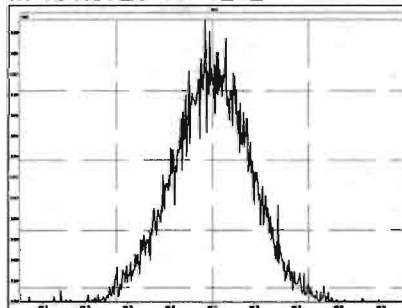
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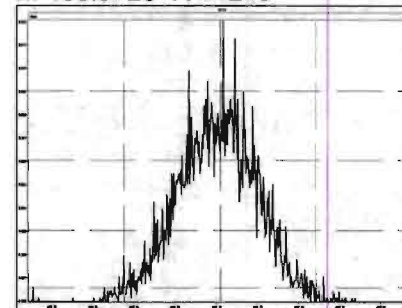
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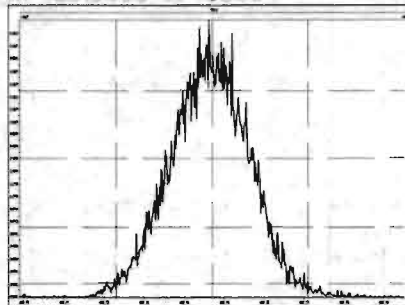
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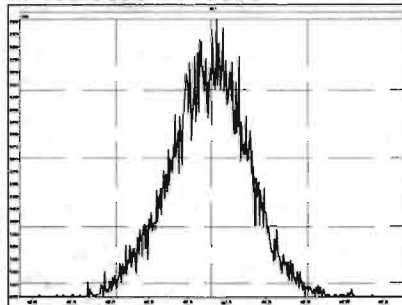
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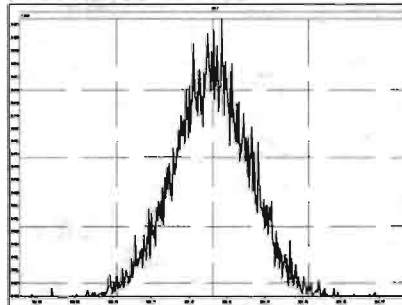
M 480.9696 R 10963



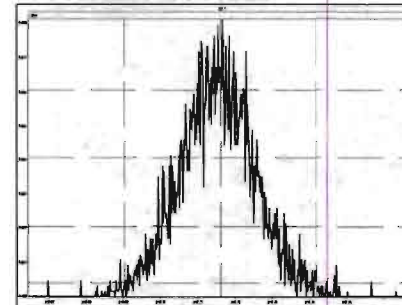
M 492.9696 R 10593



M 504.9696 R 11681



M 516.9697 R 11905



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 01 02/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

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

Response Factor: 0.9819

RRF SD: 0.0791981, Relative SD: 8.06581

Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.08271

RRF SD: 0.0939058, Relative SD: 8.67318

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Vista Analytical Laboratory VG-9

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Dataset: Untitled

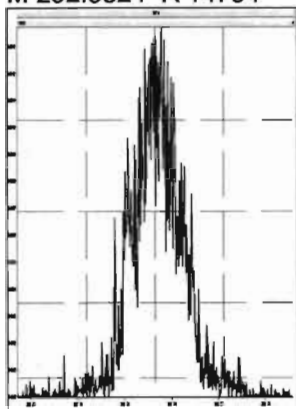
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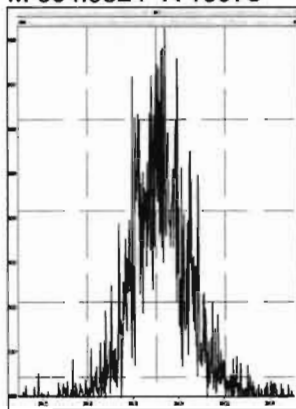
Compound name: 2,3,7,8-TCDF

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2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
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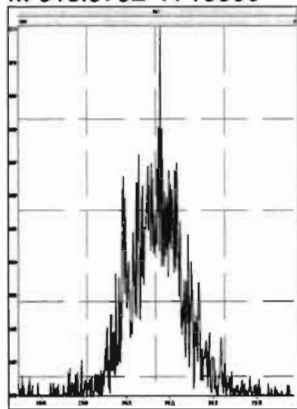
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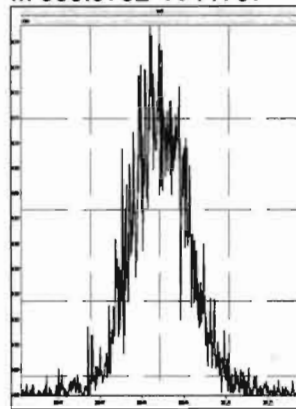
M 304.9824 R 15978



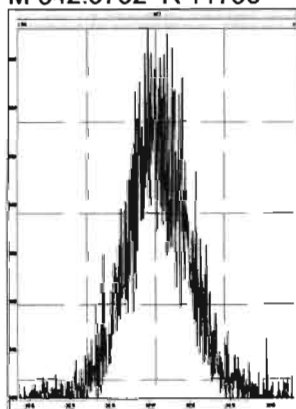
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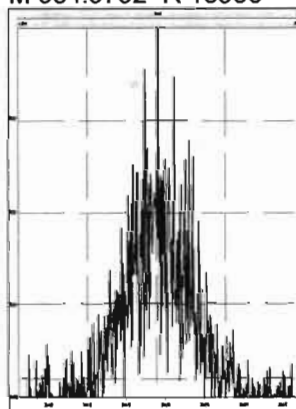
M 330.9792 R 11737



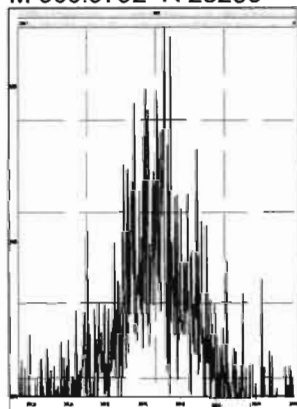
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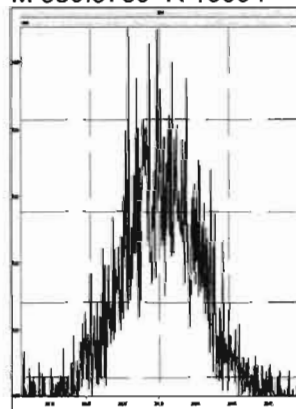
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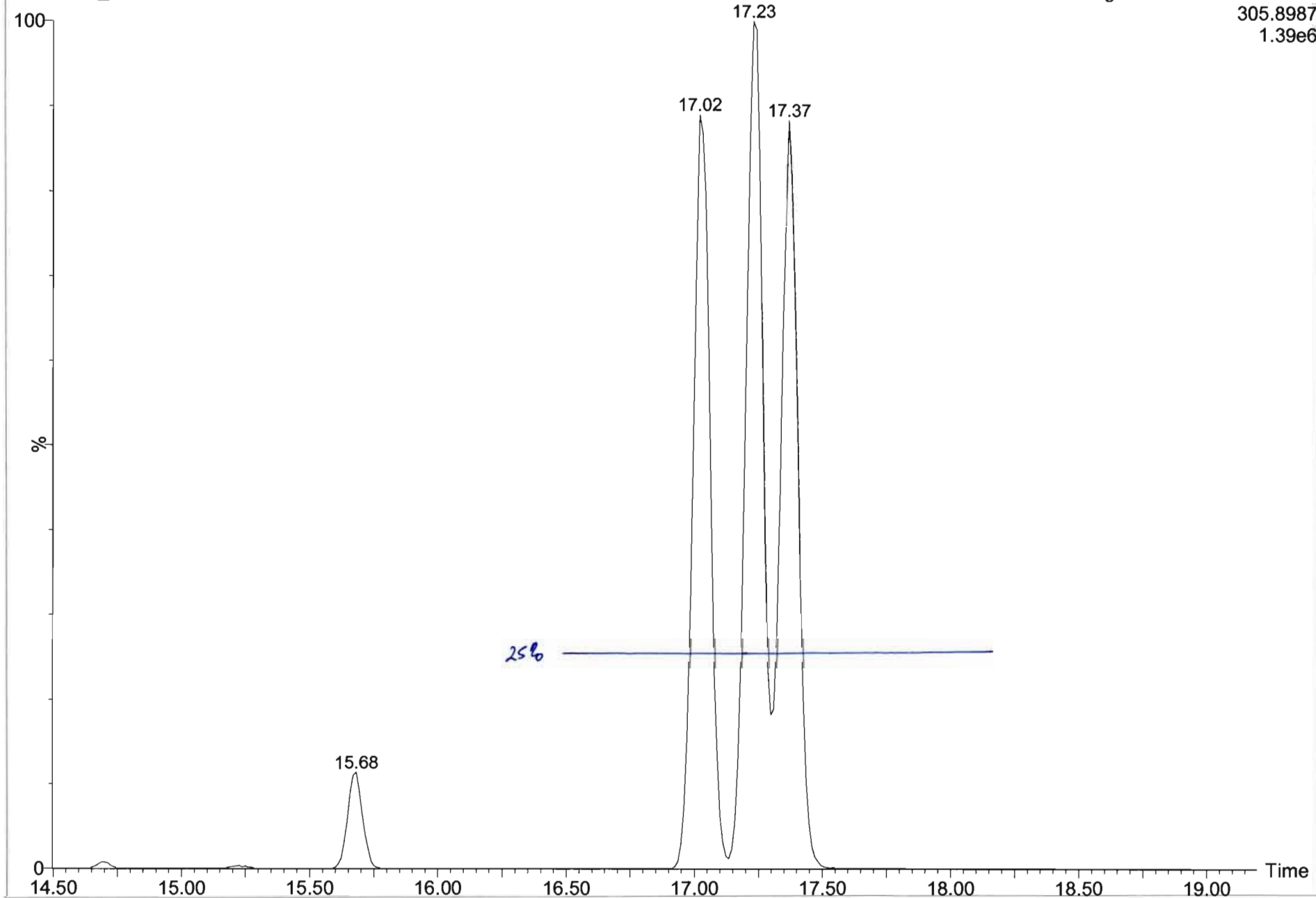


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

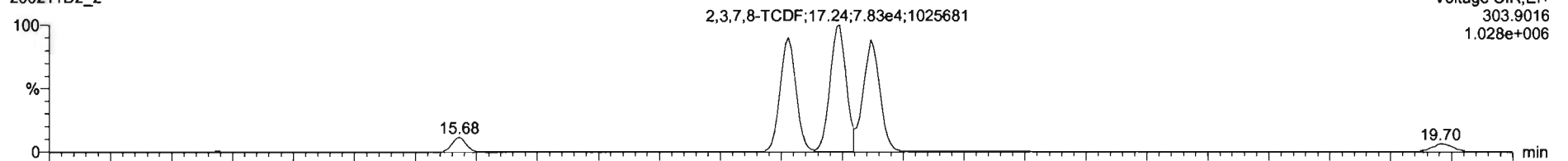
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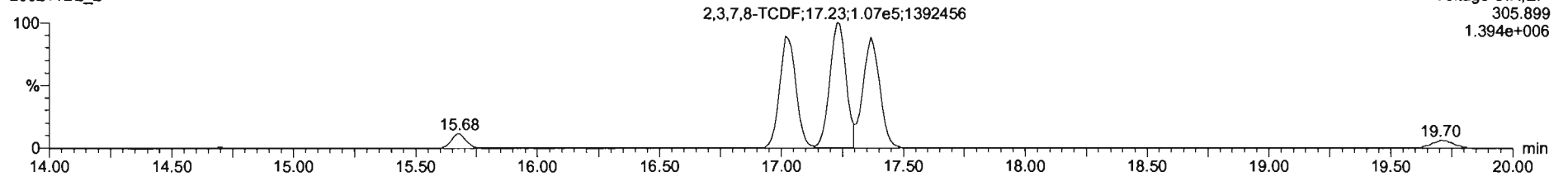
2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
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1.028e+006

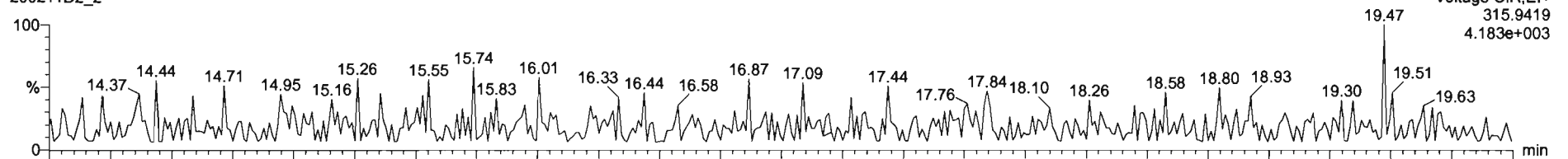
200211D2_2



Voltage SIR,EI+
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1.394e+006

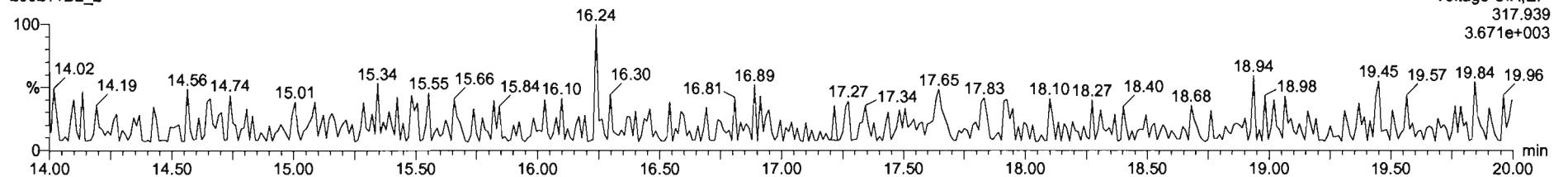
13C-2,3,7,8-TCDF

200211D2_2



Voltage SIR,EI+
315.9419
4.183e+003

200211D2_2



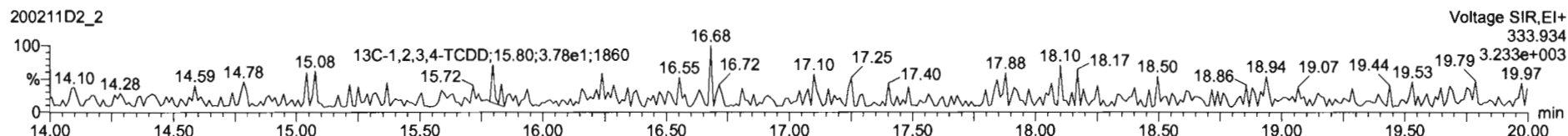
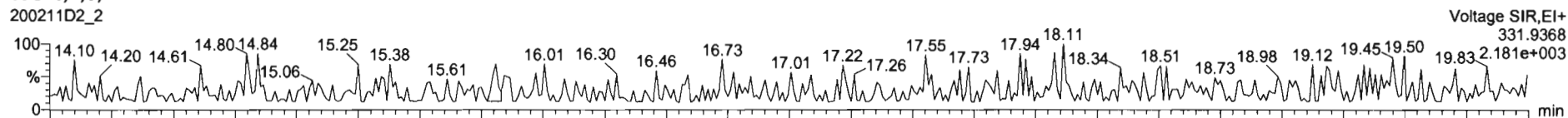
Voltage SIR,EI+
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3.671e+003

Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

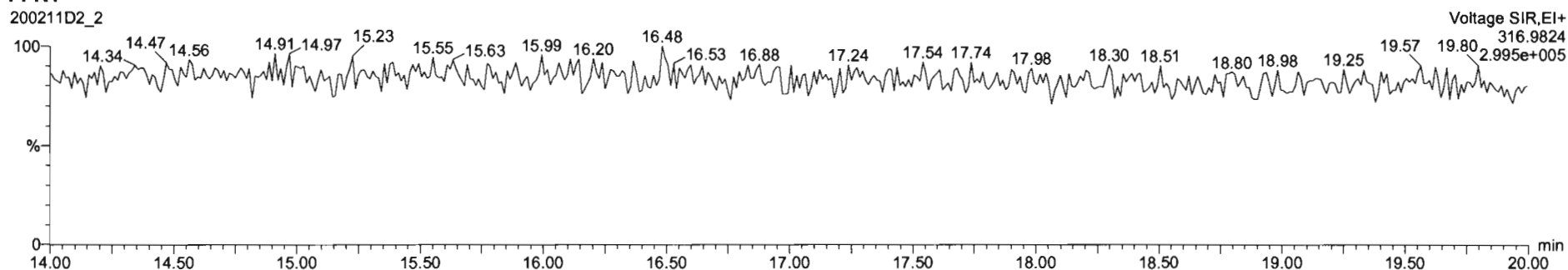
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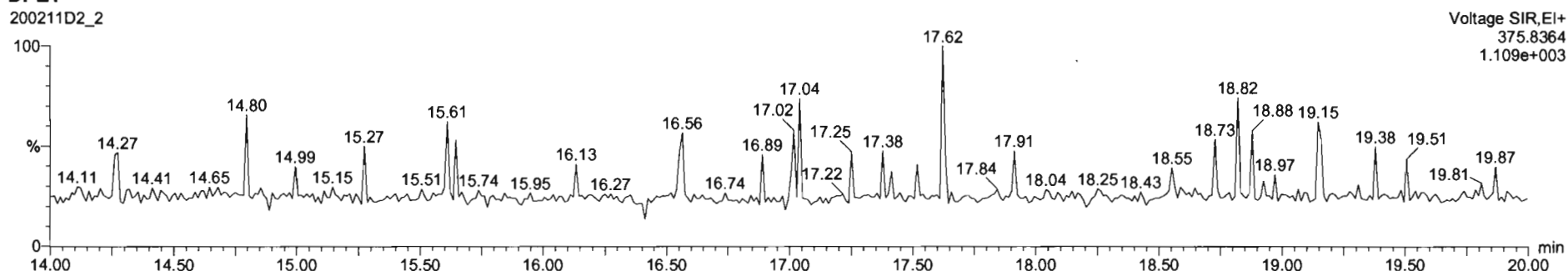
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

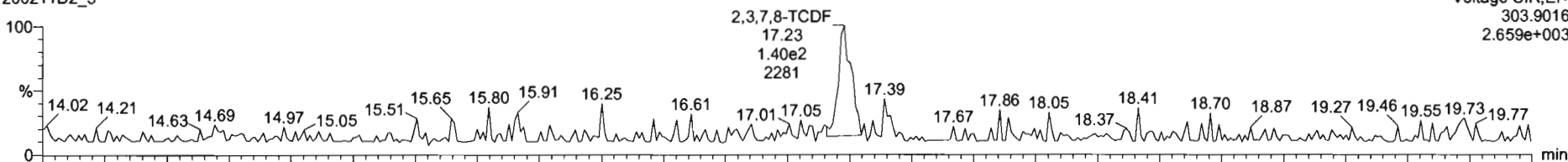
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
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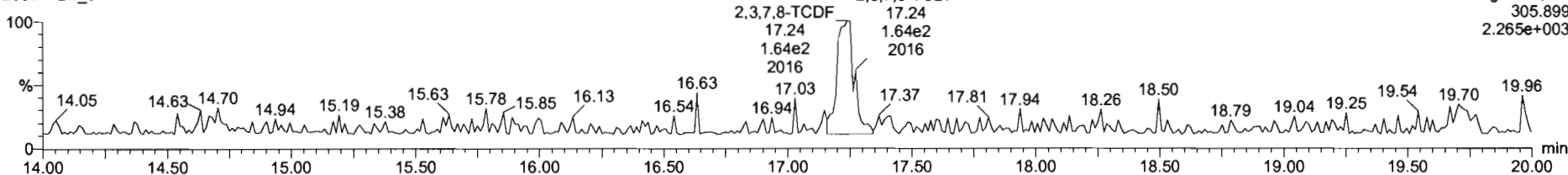
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2,3,7,8-TCDF

200211D2_3

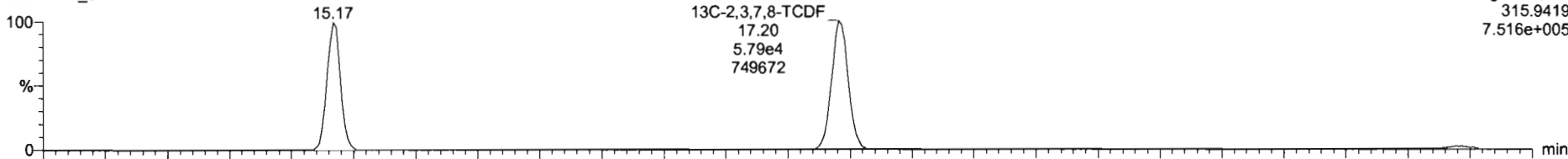


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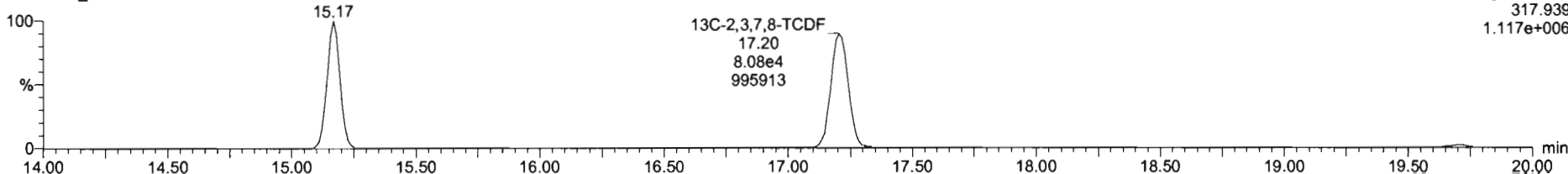


13C-2,3,7,8-TCDF

200211D2_3



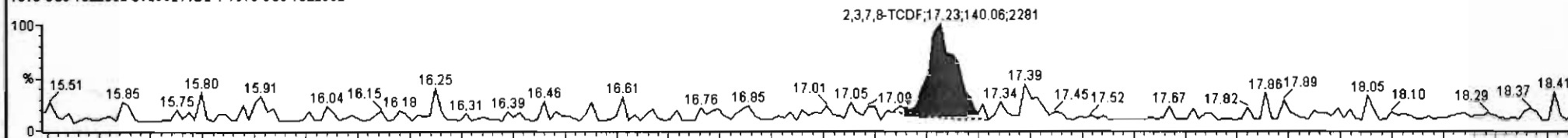
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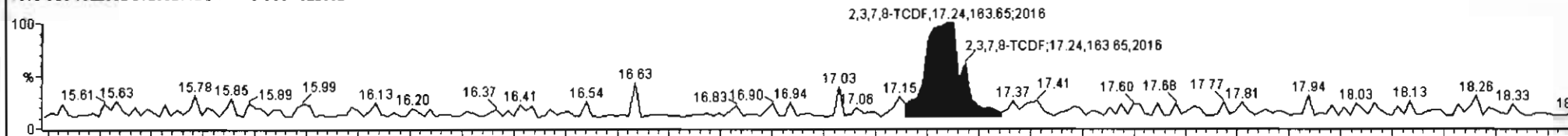
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

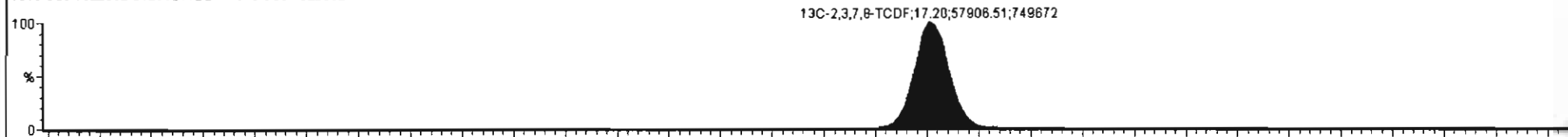
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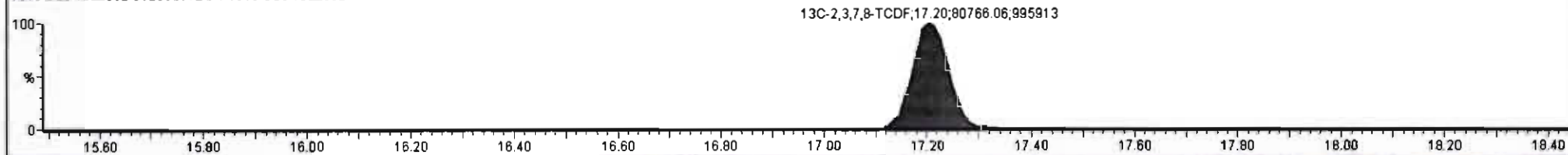
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



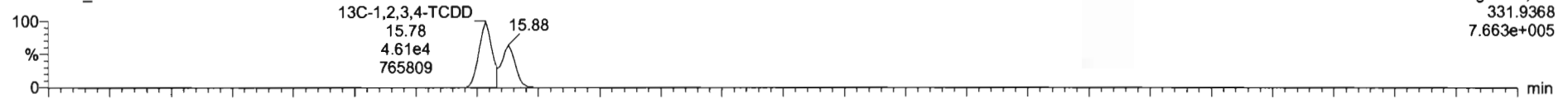
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

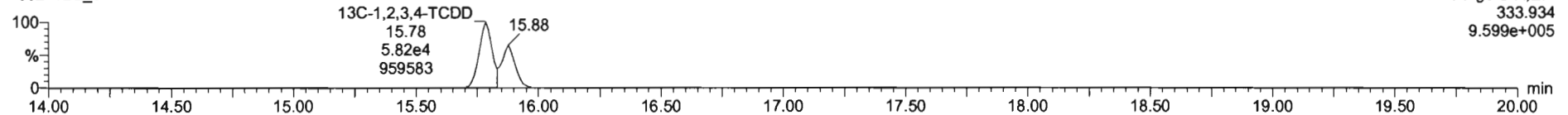
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13C-1,2,3,4-TCDD

200211D2_3

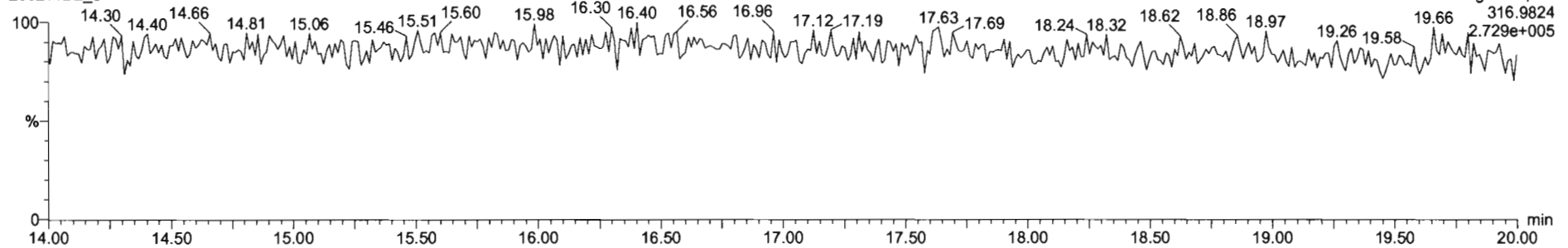


200211D2_3



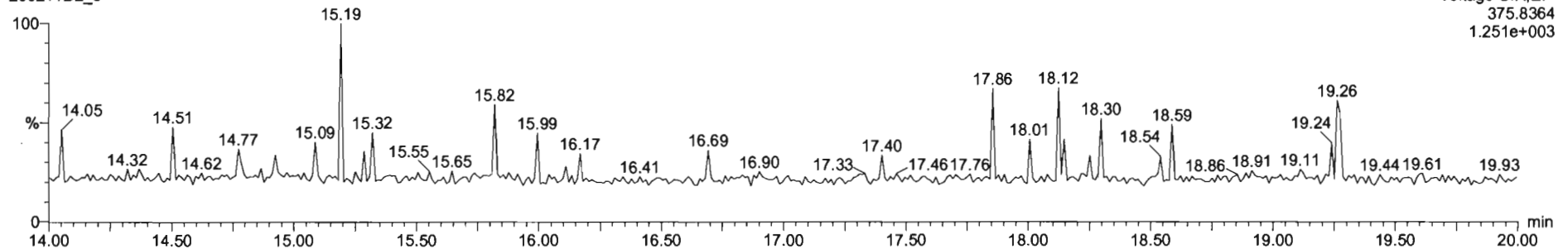
PFK1

200211D2_3



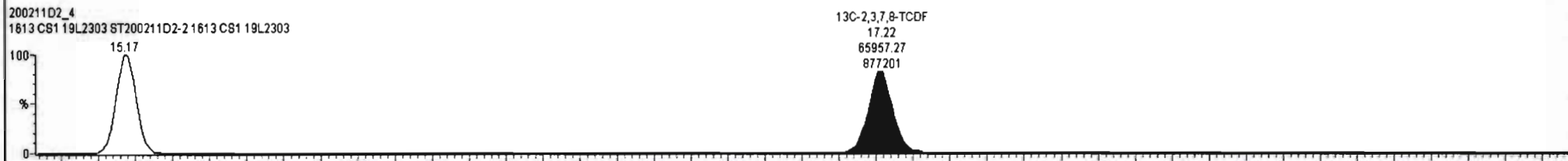
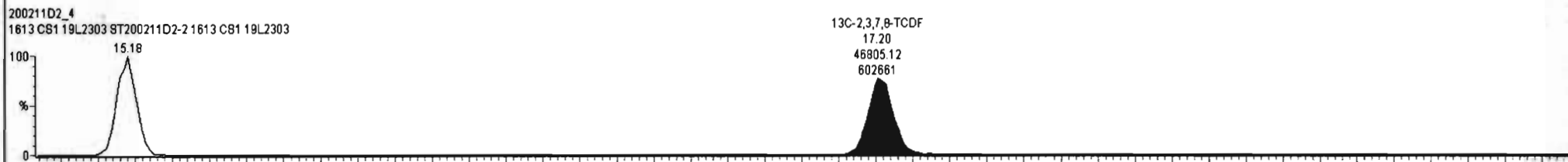
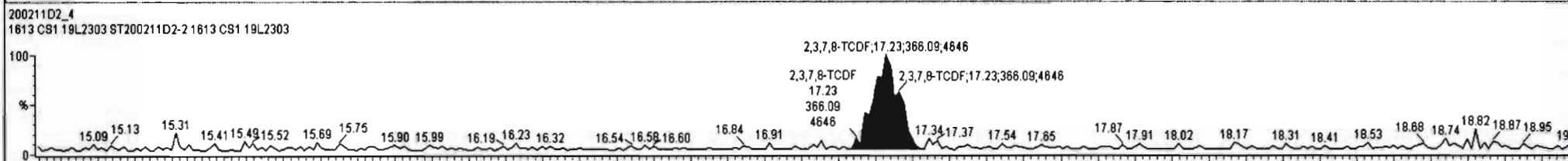
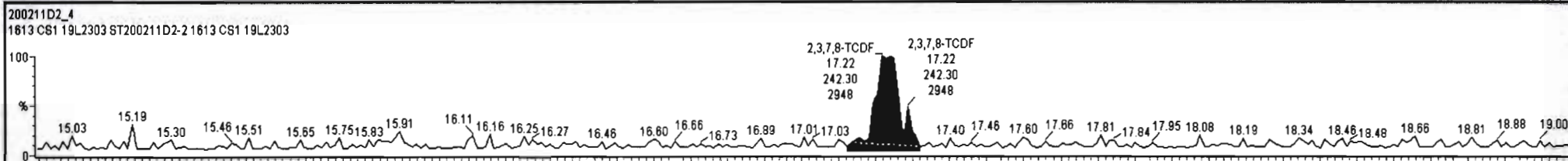
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.08e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.548
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



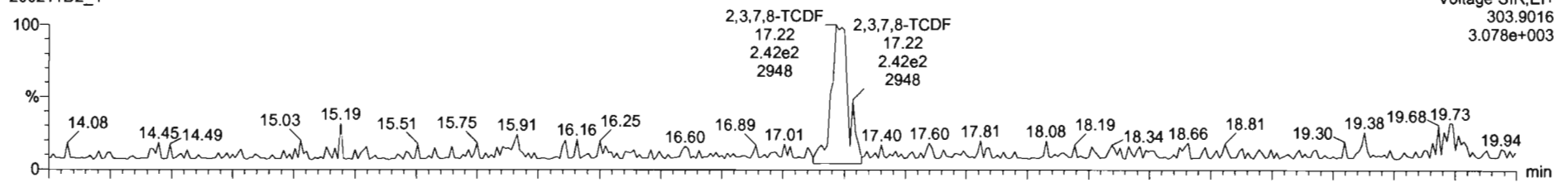
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

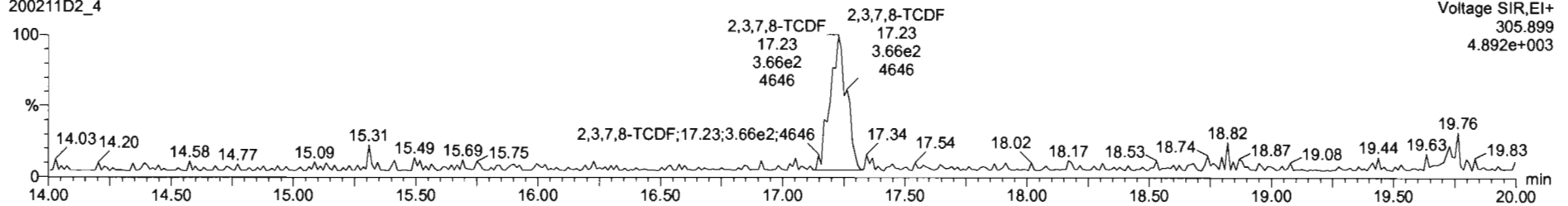
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200211D2_4

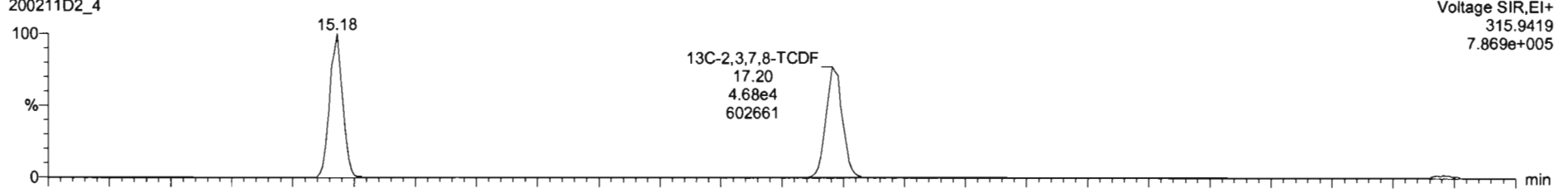


200211D2_4

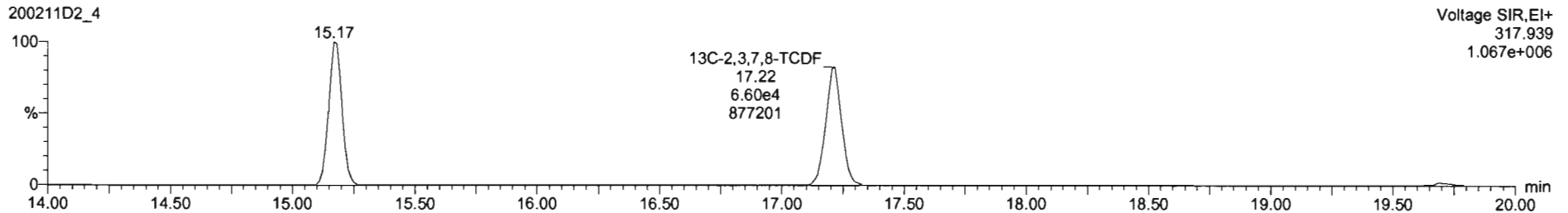


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



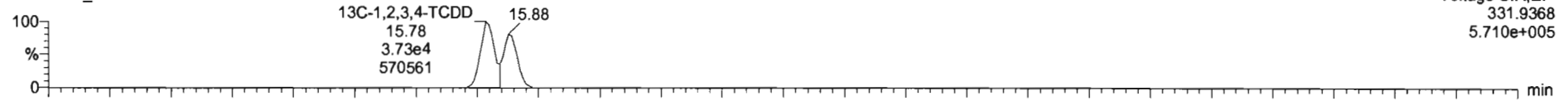
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

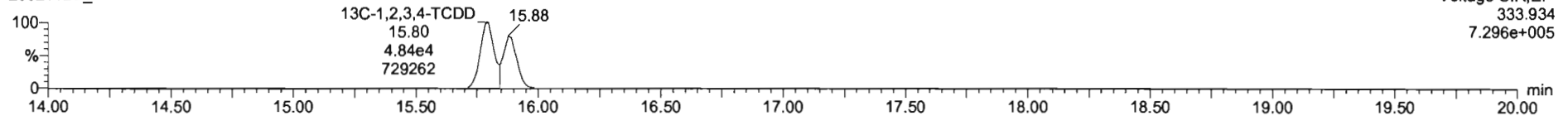
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200211D2_4

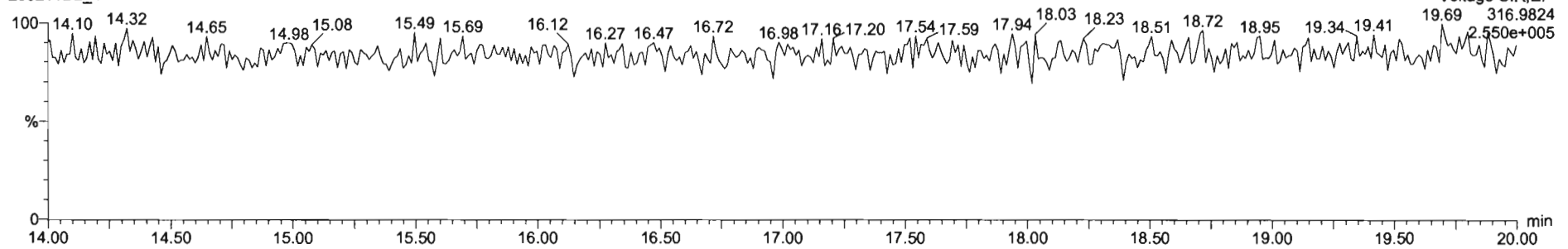


200211D2_4



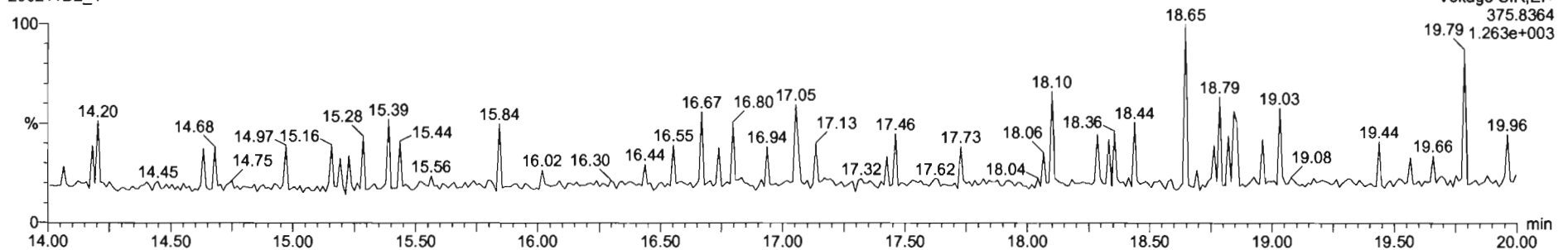
PFK1

200211D2_4



DPE1

200211D2_4



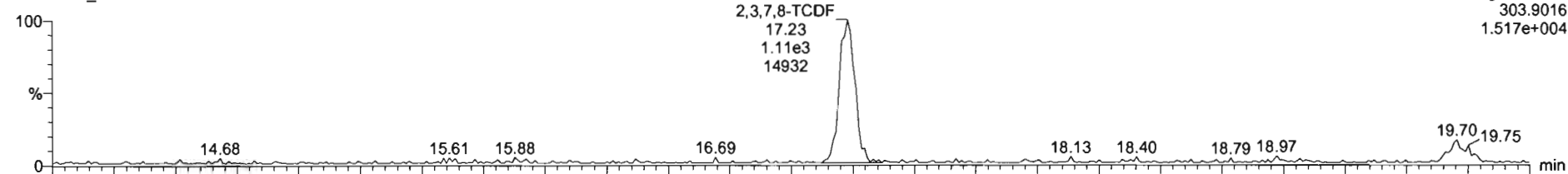
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

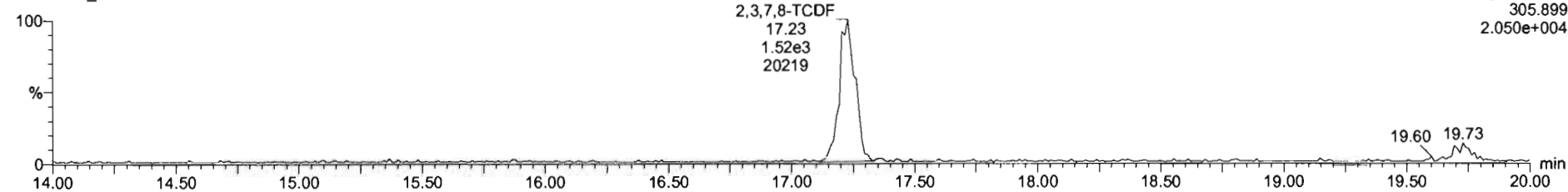
Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

2,3,7,8-TCDF

200211D2_5

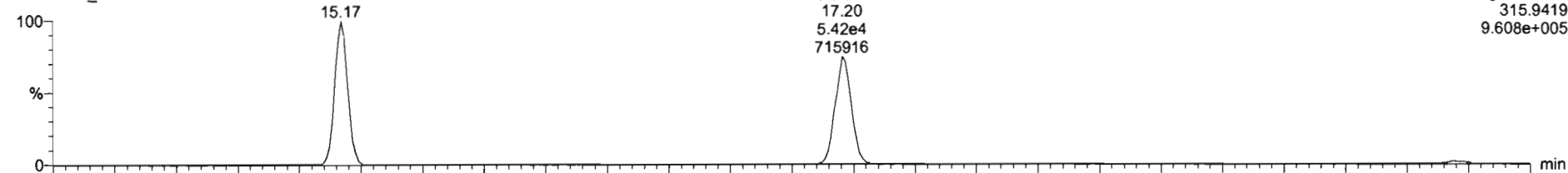


200211D2_5

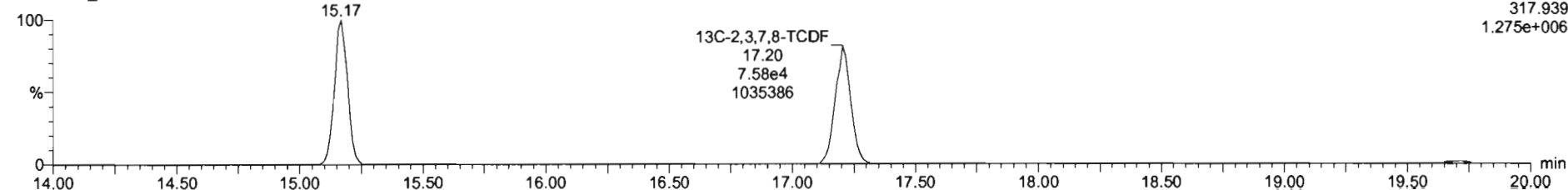


13C-2,3,7,8-TCDF

200211D2_5



200211D2_5

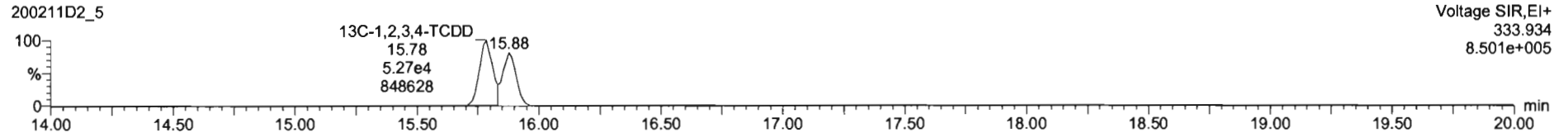
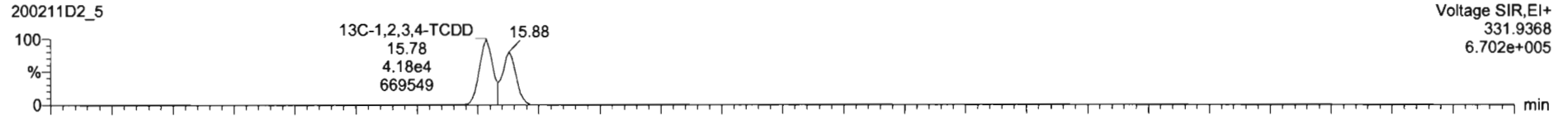


Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

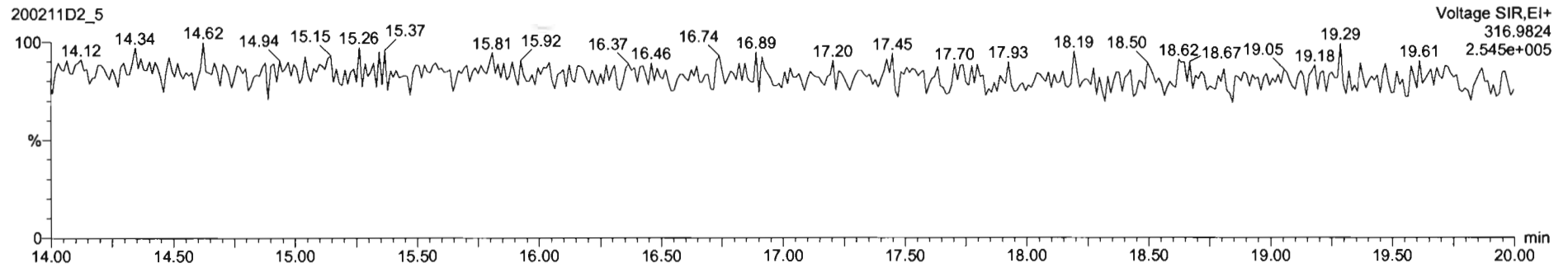
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

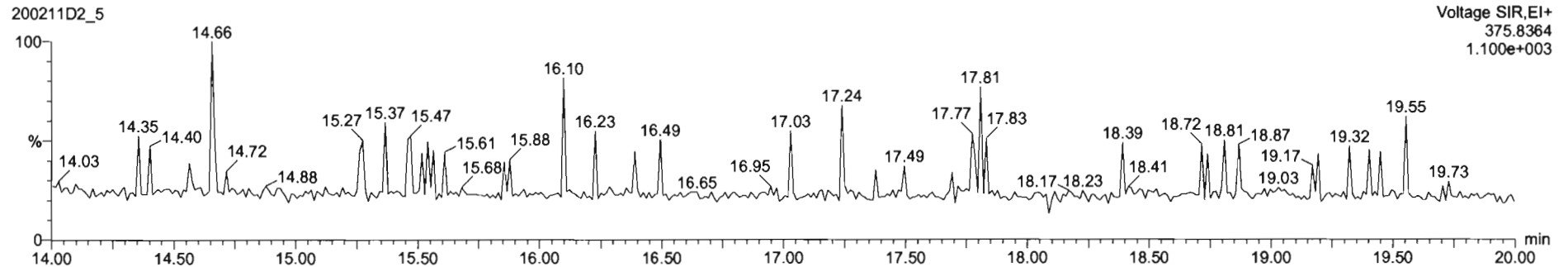
13C-1,2,3,4-TCDD



PFK1



DPE1



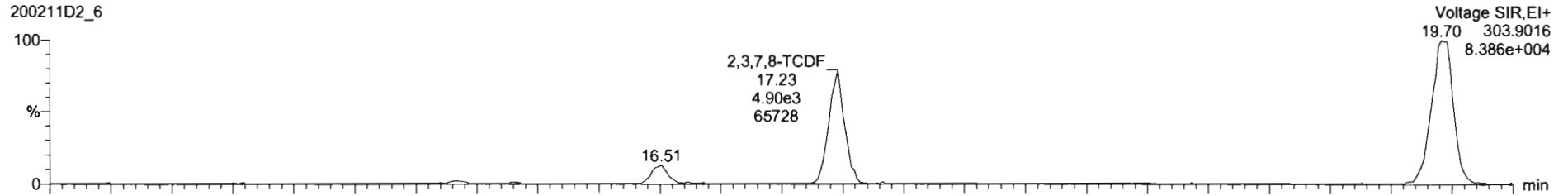
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

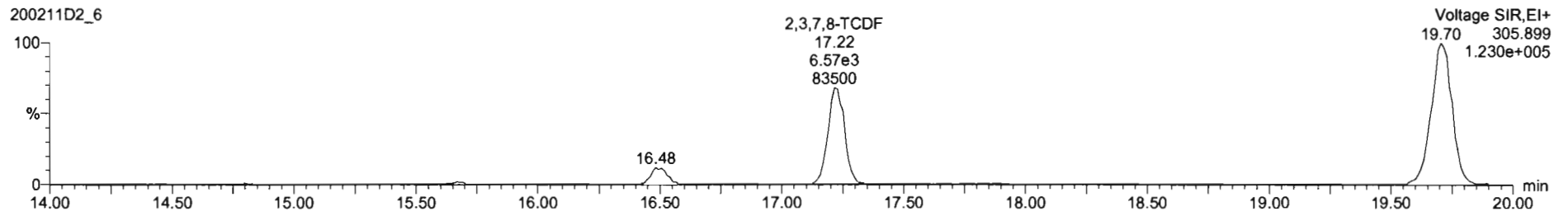
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

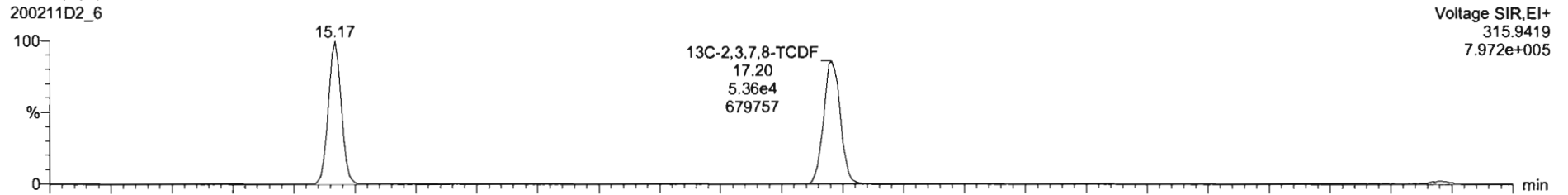


200211D2_6

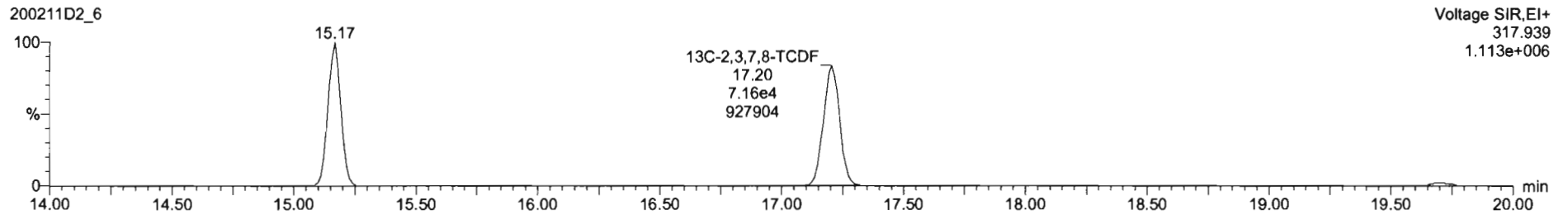


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



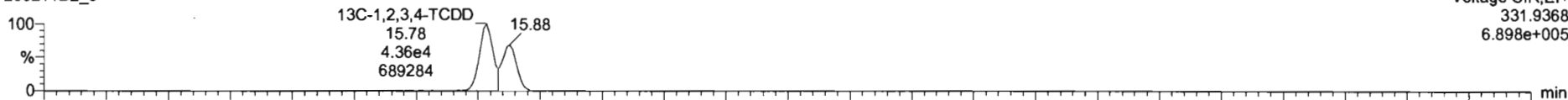
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

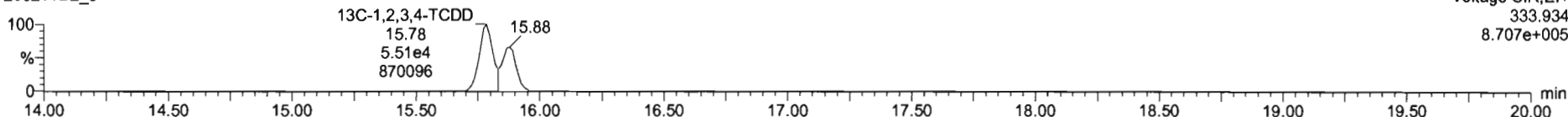
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13C-1,2,3,4-TCDD

200211D2_6

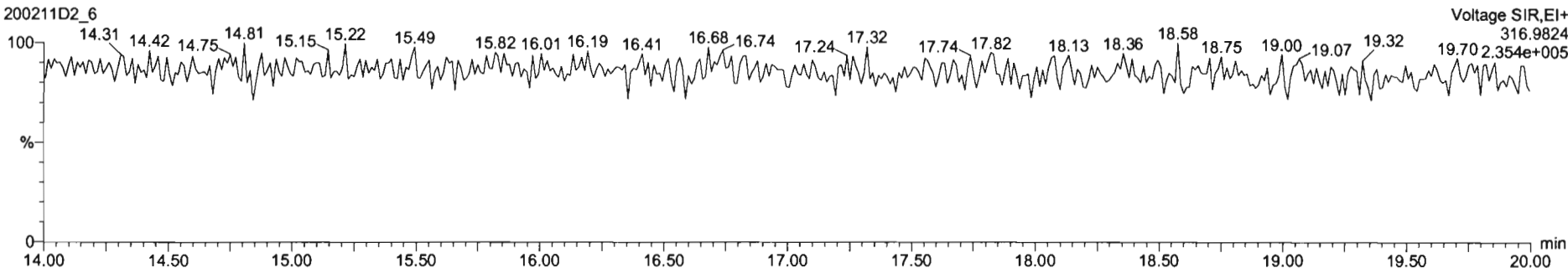


200211D2_6



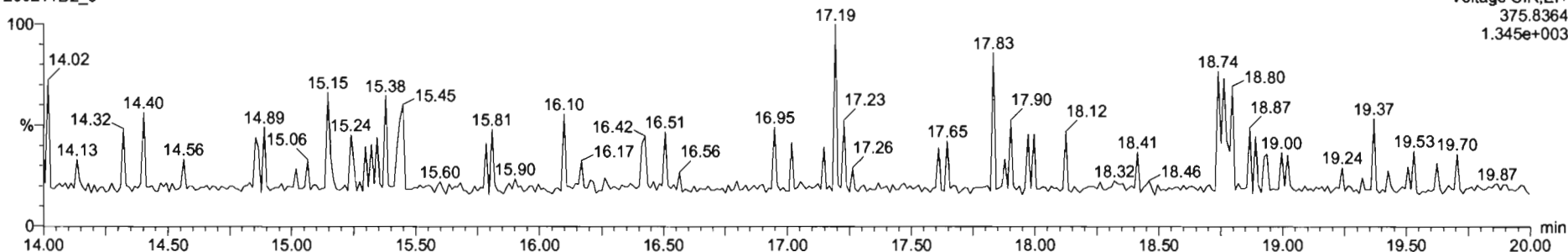
PFK1

200211D2_6



DPE1

200211D2_6



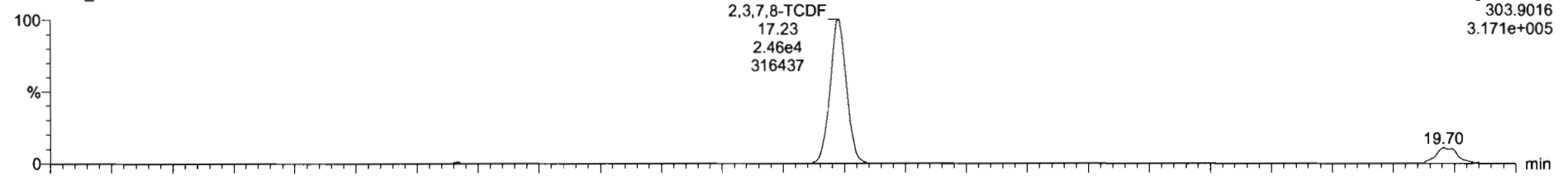
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

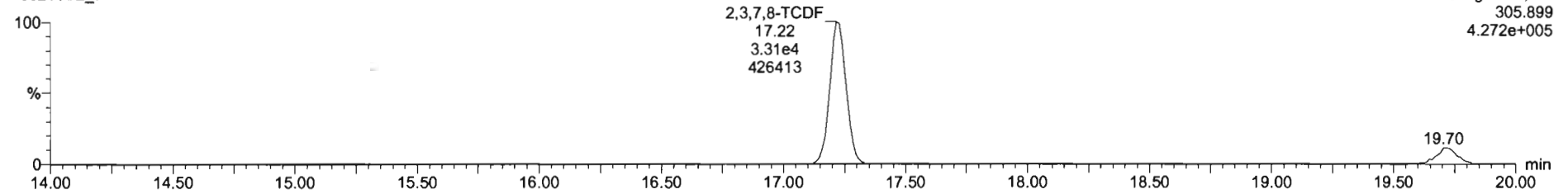
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

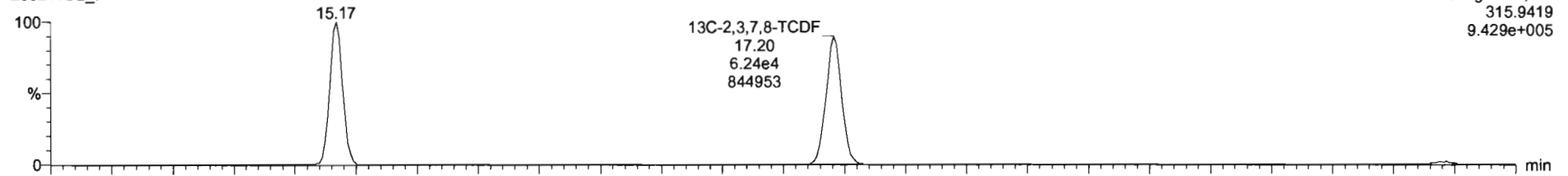


200211D2_7

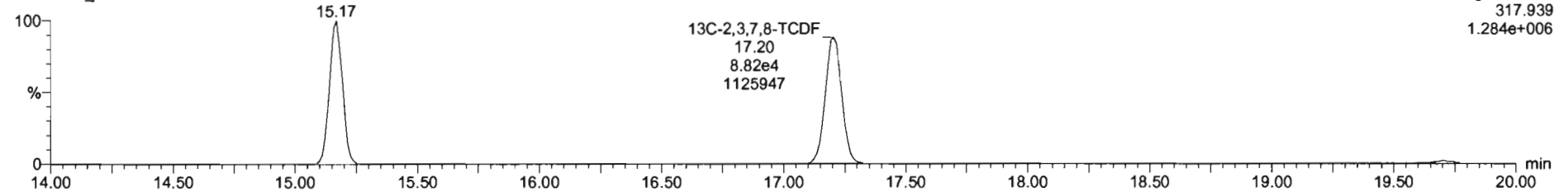


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



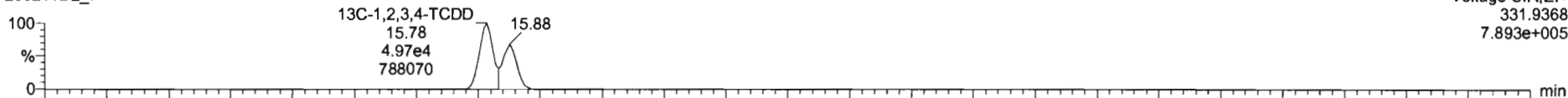
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

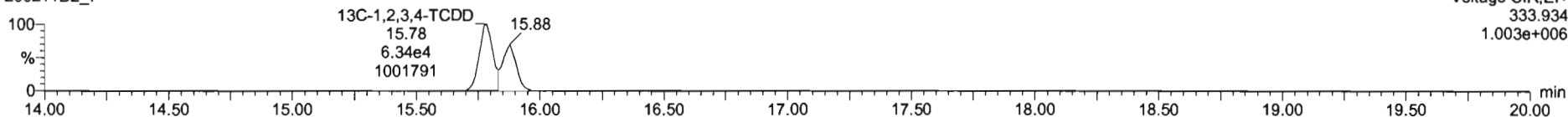
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2_7

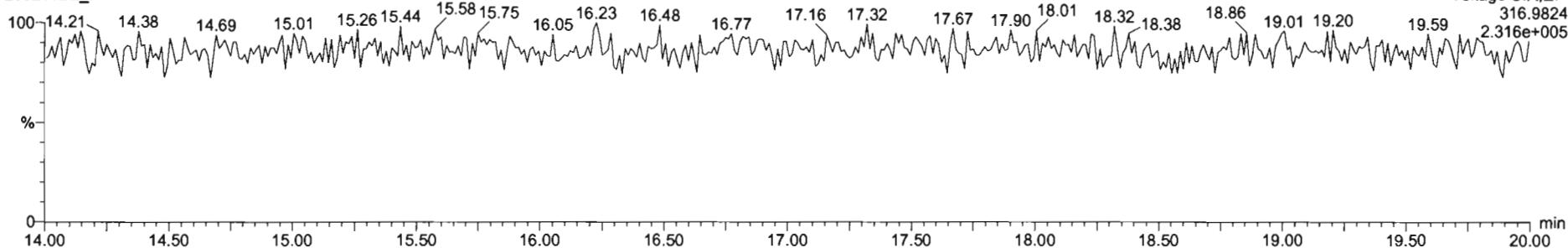


200211D2_7



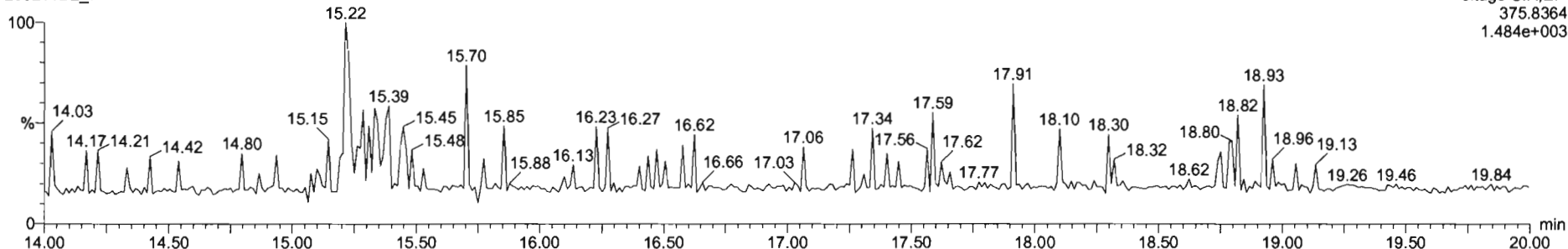
PFK1

200211D2_7



DPE1

200211D2_7



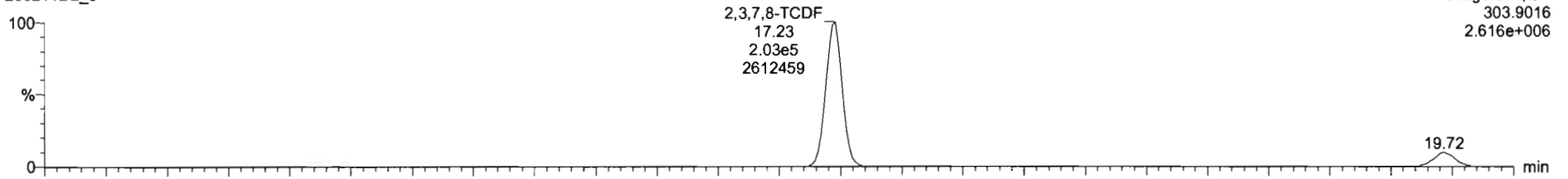
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

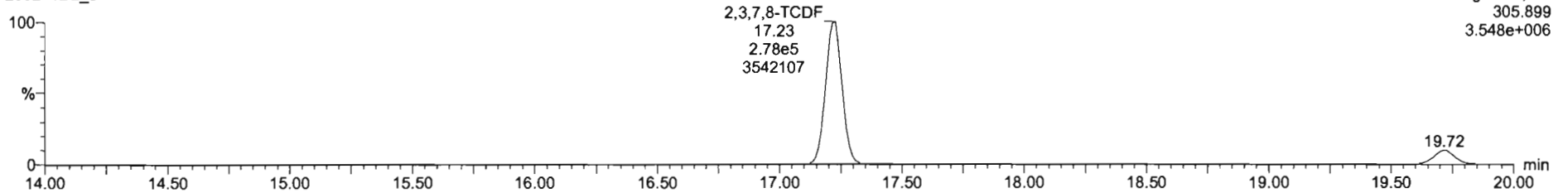
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

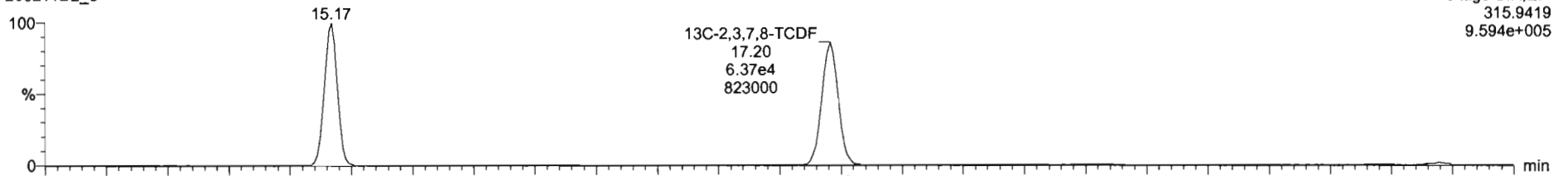
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

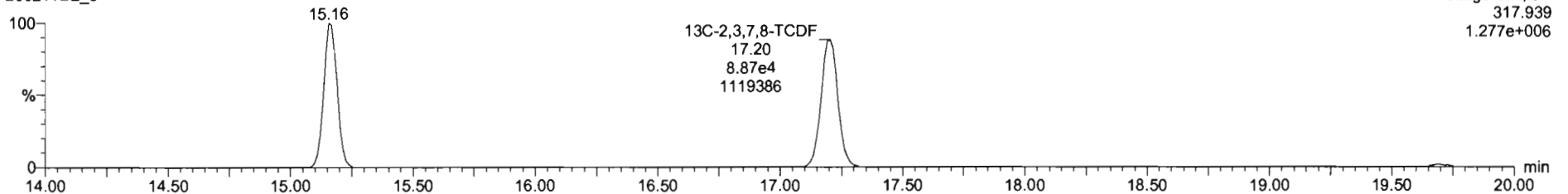
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

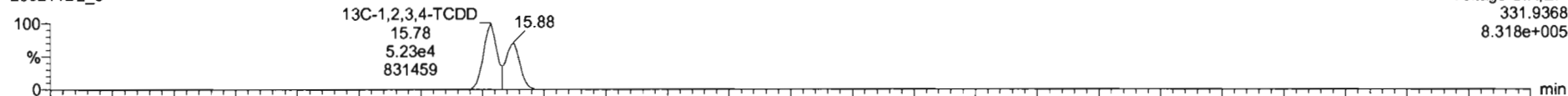
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

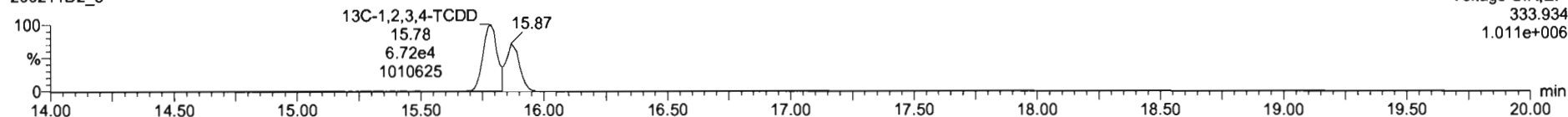
Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200211D2_8

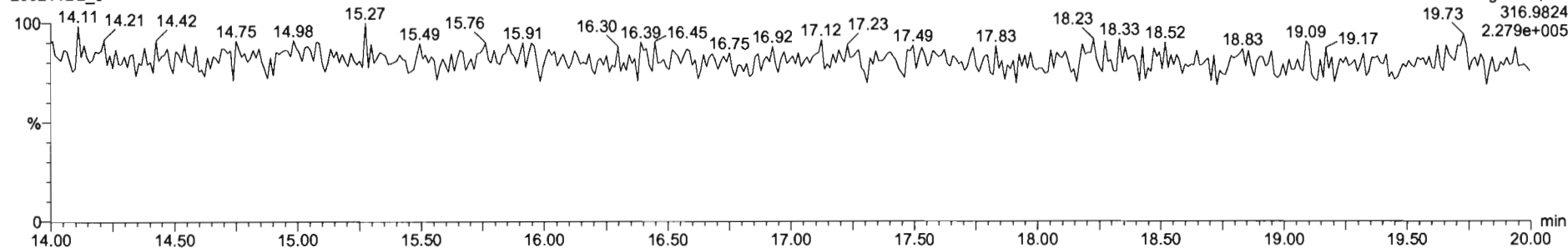


200211D2_8



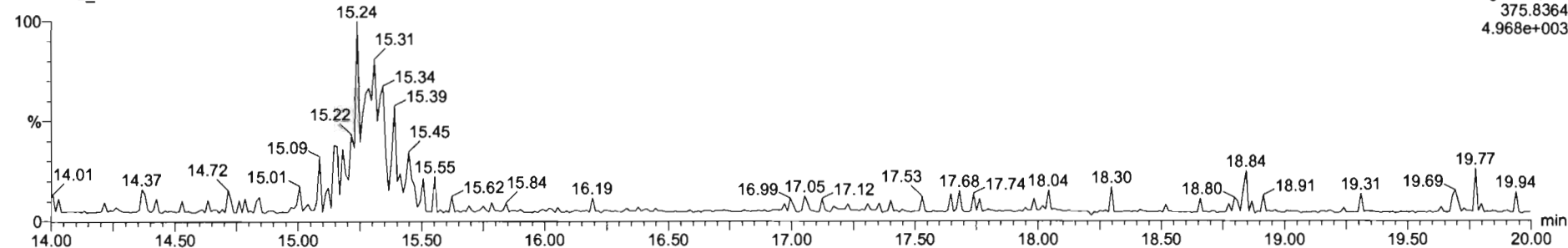
PFK1

200211D2_8

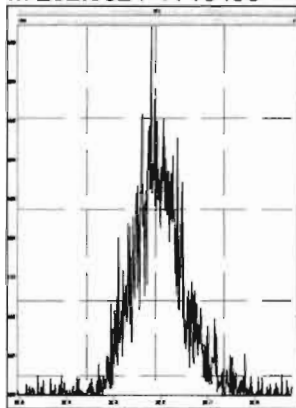


DPE1

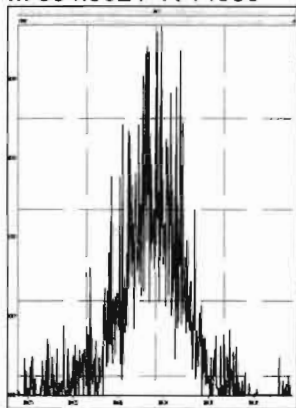
200211D2_8



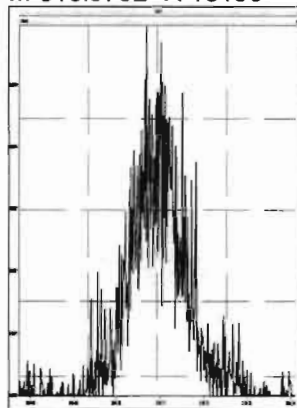
M 292.9824 R 13493



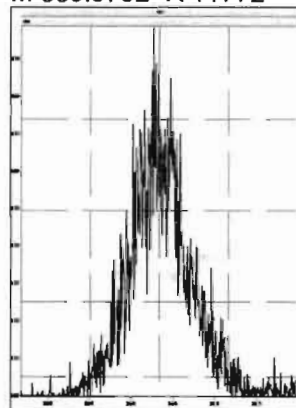
M 304.9824 R 14983



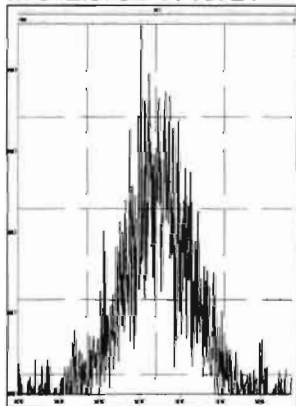
M 318.9792 R 15196



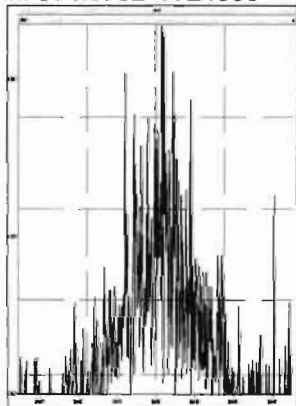
M 330.9792 R 11772



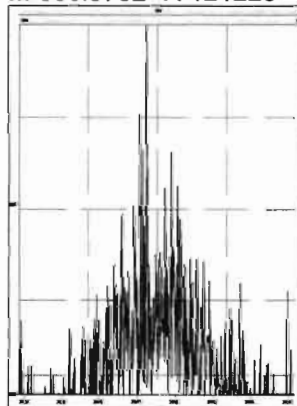
M 342.9792 R 13721



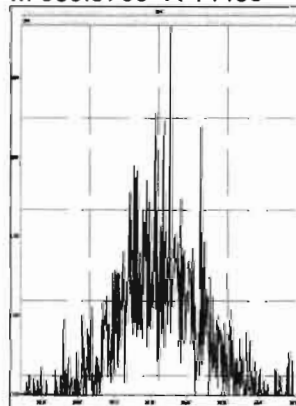
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

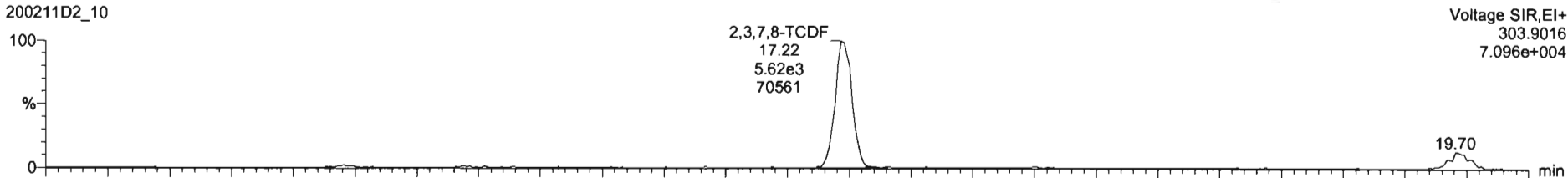
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

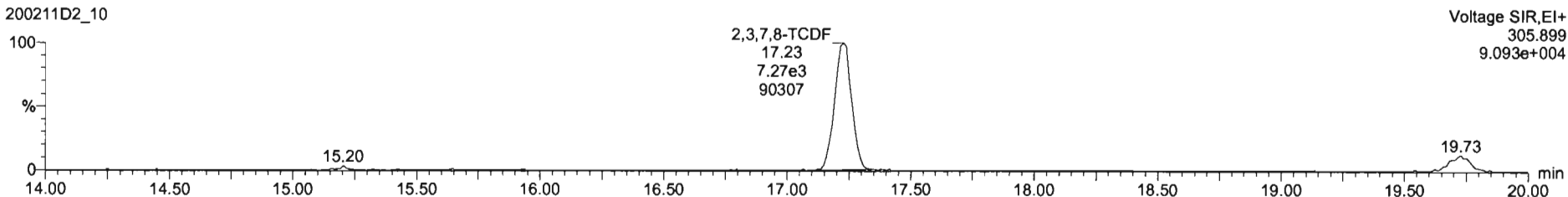
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF
200211D2_10

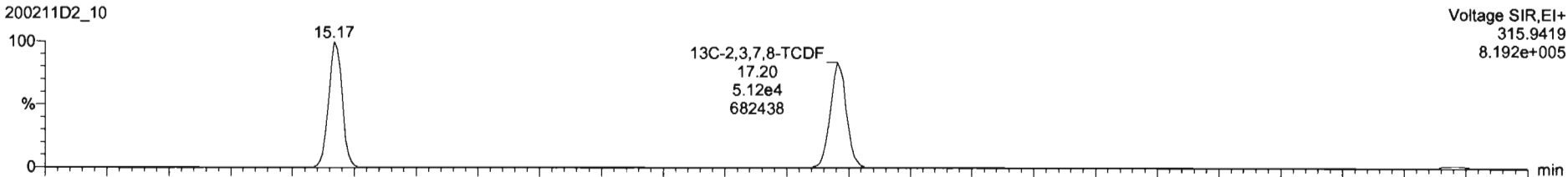


200211D2_10

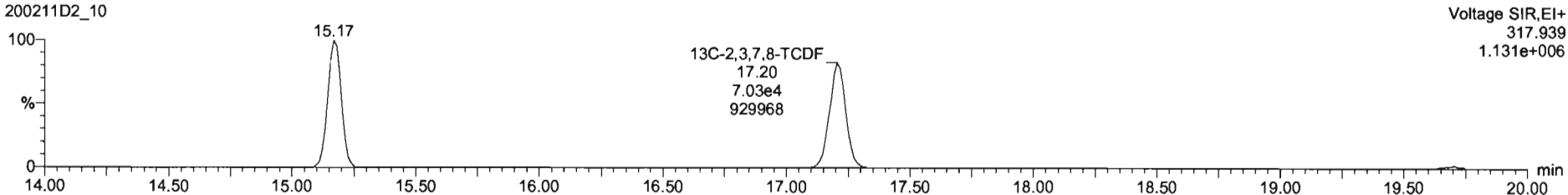


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



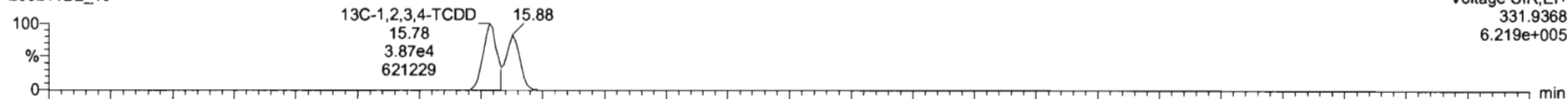
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

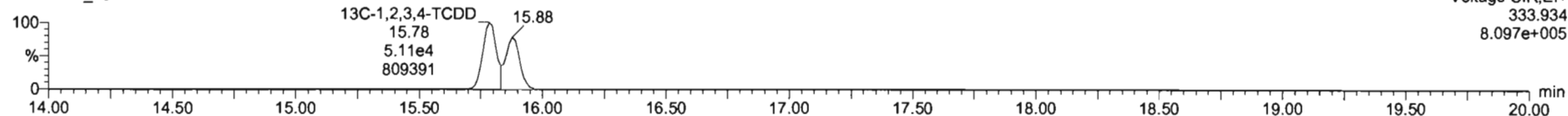
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

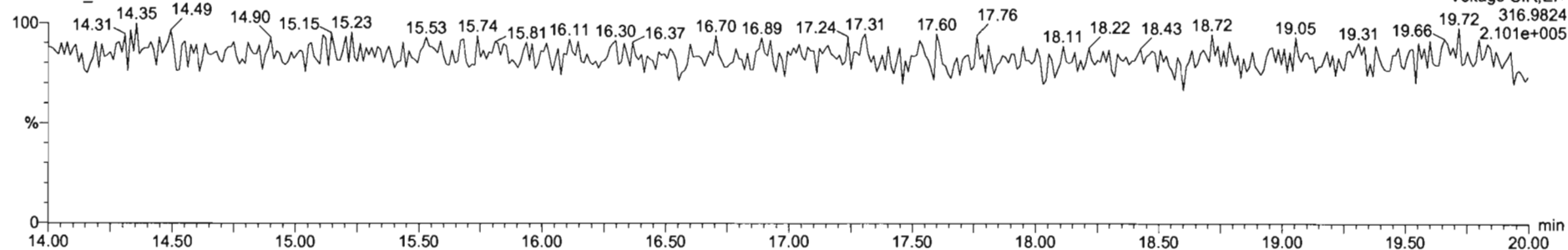


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

