

July 09, 2020

#### Vista Work Order No. 2001155

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 27, 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 Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 ph: 916-673-1520 fx: 916-673-0106 www.vista-analytical.com

#### Vista Work Order No. 2001155 Case Narrative

#### Sample Condition on Receipt:

Five sediment samples were received in good condition but outside of the recommended temperature preservation of <6°C. Authorization to proceed with the analyses was received by email on May 28, 2020. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The EPA Method 1668 analysis of sample "PDI-175SC-A-00-01.200522" was assigned to Vista Work Order No. 2001156.

#### **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 in the Method Blank. The OPR recoveries were within the method acceptance criteria.

As requested, a duplicate was performed on sample "PDI-175SC-A-02-03-200522". The RPD was out of the acceptance criteria for OCDD.

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

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2001155-01	PDI-1175SC-A-01-02-200522	EPA Method 1613B	13C-2,3,7,8-TCDD	Н	19.0
2001155-01	PDI-1175SC-A-01-02-200522	EPA Method 1613B	13C-2,3,7,8-TCDF	Н	16.0
2001155-01	PDI-1175SC-A-01-02-200522	EPA Method 1613B	37Cl-2,3,7,8-TCDD	Н	18.8
B0F0086-BS1	B0F0086-BS1	EPA Method 1613B	13C-2,3,7,8-TCDD	Н	15.7
B0F0086-BS1	B0F0086-BS1	EPA Method 1613B	13C-2,3,7,8-TCDF	Н	15.4
B0F0086-BS1	B0F0086-BS1	EPA Method 1613B	37Cl-2,3,7,8-TCDD	Н	17.5

H = Recovery was outside laboratory acceptance criteria.

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# **Sample Inventory Report**

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2001155-01	PDI-1175SC-A-01-02-200522	22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL
2001155-02	PDI-175SC-A-00-01-200522	22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL
2001155-03	PDI-175SC-A-01-02-200522	22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL
2001155-04	PDI-175SC-A-02-03-200522	DUP22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL
				Amber Glass, 120 mL
2001155-05	PDI-175SC-A-03-04-200522	22-May-20 09:25	27-May-20 10:27	Amber Glass, 120 mL

## ANALYTICAL RESULTS

Sample ID: Metho	d Blank						EPA Me	thod 1613E
Matrix: Solic Sample Size: 10.0		QC Batch: B0F0086 Date Extracted: 11-Jun-2020	16:31	1	ab Sample: B0F0086-BLK1 Date Analyzed : 24-Jun-20 00:26	5 Column: ZB-5	MS	
Analyte Conc.	. (pg/g )	DL EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.479		IS	13C-2,3,7,8-TCDD	66.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.418			13C-1,2,3,7,8-PeCDD	76.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.605			13C-1,2,3,4,7,8-HxCDD	71.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.665			13C-1,2,3,6,7,8-HxCDD	76.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.716			13C-1,2,3,7,8,9-HxCDD	72.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.26			13C-1,2,3,4,6,7,8-HpCDD	65.8	23 - 140	
OCDD	ND	1.09			13C-OCDD	57.1	17 - 157	
2,3,7,8-TCDF	ND	0.393			13C-2,3,7,8-TCDF	65.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.201			13C-1,2,3,7,8-PeCDF	80.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.195			13C-2,3,4,7,8-PeCDF	78.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.232			13C-1,2,3,4,7,8-HxCDF	69.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.238			13C-1,2,3,6,7,8-HxCDF	73.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.261			13C-2,3,4,6,7,8-HxCDF	70.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.390			13C-1,2,3,7,8,9-HxCDF	66.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.321			13C-1,2,3,4,6,7,8-HpCDF	66.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.332			13C-1,2,3,4,7,8,9-HpCDF	64.4	26 - 138	
OCDF	ND	0.741			13C-OCDF	56.9	17 - 157	
				CRS	37Cl-2,3,7,8-TCDD	69.7	35 - 197	
					Toxic Equivalent Quotient (T	EQ) Data (pg/g o	dry wt)	
					TEQMinWHO2005Dioxin	0.00		
TOTALS								
Total TCDD	ND	0.479						
Total PeCDD	ND	0.418						
Total HxCDD	ND	0.716						
Total HpCDD	ND	1.26						
Total TCDF	ND	0.596						
Total PeCDF	ND	0.201						
Total HxCDF	ND	0.390						
Total HpCDF	ND	0.332						

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: OPR								EPA Method 1613B
Matrix:SolidSample Size:10.0 g			B0F0086 11-Jun-2020	16:31		Lab Sample:B0F0086-BS1Date Analyzed:23-Jun-20 22:55	Column: ZB-5MS	
Analyte	Amt Found (pg/g )	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	21.3	20.0	106	67 - 158	IS	13C-2,3,7,8-TCDD	15.7	20 - 175
1,2,3,7,8-PeCDD	102	100	102	70 - 142		13C-1,2,3,7,8-PeCDD	27.7	21 - 227
1,2,3,4,7,8-HxCDD	92.8	100	92.8	70 - 164		13C-1,2,3,4,7,8-HxCDD	40.2	21 - 193
1,2,3,6,7,8-HxCDD	96.1	100	96.1	76 - 134		13C-1,2,3,6,7,8-HxCDD	47.1	25 - 163
1,2,3,7,8,9-HxCDD	90.9	100	90.9	64 - 162		13C-1,2,3,7,8,9-HxCDD	64.8	21 - 193
1,2,3,4,6,7,8-HpCDD	99.7	100	99.7	70 - 140		13C-1,2,3,4,6,7,8-HpCDD	62.6	26 - 166
OCDD	184	200	92.1	78 - 144		13C-OCDD	62.2	13 - 199
2,3,7,8-TCDF	21.6	20.0	108	75 - 158		13C-2,3,7,8-TCDF	15.4	22 - 152
1,2,3,7,8-PeCDF	93.0	100	93.0	80 - 134		13C-1,2,3,7,8-PeCDF	26.0	21 - 192
2,3,4,7,8-PeCDF	98.7	100	98.7	68 - 160		13C-2,3,4,7,8-PeCDF	23.1	13 - 328
1,2,3,4,7,8-HxCDF	103	100	103	72 - 134		13C-1,2,3,4,7,8-HxCDF	35.9	19 - 202
1,2,3,6,7,8-HxCDF	104	100	104	84 - 130		13C-1,2,3,6,7,8-HxCDF	43.4	21 - 159
2,3,4,6,7,8-HxCDF	99.8	100	99.8	70 - 156		13C-2,3,4,6,7,8-HxCDF	52.1	22 - 176
1,2,3,7,8,9-HxCDF	100	100	100	78 - 130		13C-1,2,3,7,8,9-HxCDF	41.9	17 - 205
1,2,3,4,6,7,8-HpCDF	97.1	100	97.1	82 - 122		13C-1,2,3,4,6,7,8-HpCDF	65.2	21 - 158
1,2,3,4,7,8,9-HpCDF	98.7	100	98.7	78 - 138		13C-1,2,3,4,7,8,9-HpCDF	53.3	20 - 186
OCDF	219	200	109	63 - 170		13C-OCDF	60.1	13 - 199
					CRS	37Cl-2,3,7,8-TCDD	17.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-11	75SC-A-01-02-20	0522						EPA Me	thod 1613B
Project: Gasco	or QEA, LLC o PDI ay-2020 9:25	Sample I Matrix: Sample % Solid	Sedimen Size: 11.1 g	t	Lal QC	boratory Data           o Sample:         2001155-01           c Batch:         B0F0086           te Analyzed :         07-Jul-20 22:53	Date Rece Date Extra 3 Column: ZB-	icted: 11-Jun-2020	
Analyte Conc.	. (pg/g )	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.260			IS	13C-2,3,7,8-TCDD	19.0	25 - 164	Н
1,2,3,7,8-PeCDD	ND	0.169				13C-1,2,3,7,8-PeCDD	35.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.235				13C-1,2,3,4,7,8-HxCDD	50.5	32 - 141	
1,2,3,6,7,8-HxCDD	1.72			J		13C-1,2,3,6,7,8-HxCDD	55.4	28 - 130	
1,2,3,7,8,9-HxCDD	0.485			J		13C-1,2,3,7,8,9-HxCDD	76.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	143					13C-1,2,3,4,6,7,8-HpCDD	77.4	23 - 140	
OCDD	863					13C-OCDD	73.1	17 - 157	
2,3,7,8-TCDF	ND		0.547			13C-2,3,7,8-TCDF	16.0	24 - 169	Н
1,2,3,7,8-PeCDF	0.606			J		13C-1,2,3,7,8-PeCDF	29.0	24 - 185	
2,3,4,7,8-PeCDF	0.276			J		13C-2,3,4,7,8-PeCDF	25.8	21 - 178	
1,2,3,4,7,8-HxCDF	1.01			J		13C-1,2,3,4,7,8-HxCDF	44.3	26 - 152	
1,2,3,6,7,8-HxCDF	0.247			J		13C-1,2,3,6,7,8-HxCDF	49.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0715				13C-2,3,4,6,7,8-HxCDF	58.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.117				13C-1,2,3,7,8,9-HxCDF	55.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.56					13C-1,2,3,4,6,7,8-HpCDF	65.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.194				13C-1,2,3,4,7,8,9-HpCDF	59.4	26 - 138	
OCDF	19.8					13C-OCDF	64.4	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	18.8	35 - 197	Н
						Toxic Equivalent Quotient (TE	EQ) Data (pg/g	dry wt)	
						TEQMinWHO2005Dioxin	2.18		
TOTALS									
Total TCDD	ND	0.260							
Total PeCDD	0.459		0.635						
Total HxCDD	26.7								
Total HpCDD	326								
Total TCDF	0.620		1.17						
Total PeCDF	2.13								
Total HxCDF	3.66								
Total HpCDF DL - Sample specifc est	17.8					CL- Lower control limit - upper control lim			

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: PDI-17	5SC-A-00-01-20052	22					EPA Me	thod 1613B
Project: Gasco	or QEA, LLC o PDI ay-2020 9:25	Sample Data Matrix: Sample Size: % Solids:	Sediment 11.0 g 91.9	Lat QC	boratory Data 5 Sample: 2001155-02 Batch: B0F0086 te Analyzed : 08-Jul-20 18:36 28-Jun-20 16:3.		cted: 11-Jun-2020 225	
Analyte Conc.	. (pg/g )	DL EMP	C Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.206		IS	13C-2,3,7,8-TCDD	53.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.277			13C-1,2,3,7,8-PeCDD	67.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.552		J		13C-1,2,3,4,7,8-HxCDD	55.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.287			13C-1,2,3,6,7,8-HxCDD	62.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.357			13C-1,2,3,7,8,9-HxCDD	60.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	34.7				13C-1,2,3,4,6,7,8-HpCDD	60.7	23 - 140	
OCDD	257				13C-OCDD	55.4	17 - 157	
2,3,7,8-TCDF	0.387		J		13C-2,3,7,8-TCDF	46.4	24 - 169	
1,2,3,7,8-PeCDF	0.603		J		13C-1,2,3,7,8-PeCDF	61.0	24 - 185	
2,3,4,7,8-PeCDF	0.390		J		13C-2,3,4,7,8-PeCDF	60.1	21 - 178	
1,2,3,4,7,8-HxCDF	1.11		J		13C-1,2,3,4,7,8-HxCDF	58.4	26 - 152	
1,2,3,6,7,8-HxCDF	0.331		J		13C-1,2,3,6,7,8-HxCDF	65.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.144			13C-2,3,4,6,7,8-HxCDF	69.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.233			13C-1,2,3,7,8,9-HxCDF	60.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.32		J		13C-1,2,3,4,6,7,8-HpCDF	65.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.336			13C-1,2,3,4,7,8,9-HpCDF	60.0	26 - 138	
OCDF	7.05				13C-OCDF	56.2	17 - 157	
				CRS	37Cl-2,3,7,8-TCDD	59.4	35 - 197	
					Toxic Equivalent Quotient (TE	Q) Data (pg/g	dry wt)	
					TEQMinWHO2005Dioxin	0.823		
TOTALS								
Total TCDD	ND	0.206						
Total PeCDD	ND	0.277						
Total HxCDD	8.90							
Total HpCDD	85.4							
Total TCDF	0.648	1.3	7					
Total PeCDF	2.37							
Total HxCDF	3.40							
Total HpCDF DL - Sample specifc est	8.02				CL- Lower control limit - upper control limi			

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: PDI-17	5SC-A-01-02-200522						EPA Me	thod 1613B
Project: Gased	or QEA, LLC 9 PDI ay-2020 9:25	Sample DataMatrix:SedimentSample Size:11.0 g% Solids:90.8		La QC	boratory Datab Sample:2001155-03C Batch:B0F0086.te Analyzed :28-Jun-20 17:2	Date Rece Date Extra 1 Column: ZB	icted: 11-Jun-2020	
Analyte Conc.	(pg/g )	DL EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.146		IS	13C-2,3,7,8-TCDD	73.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.155			13C-1,2,3,7,8-PeCDD	90.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.198			13C-1,2,3,4,7,8-HxCDD	74.0	32 - 141	
1,2,3,6,7,8-HxCDD	0.452		J		13C-1,2,3,6,7,8-HxCDD	80.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.241			13C-1,2,3,7,8,9-HxCDD	82.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	16.6				13C-1,2,3,4,6,7,8-HpCDD	71.5	23 - 140	
OCDD	142				13C-OCDD	58.8	17 - 157	
2,3,7,8-TCDF	0.448		J		13C-2,3,7,8-TCDF	59.4	24 - 169	
1,2,3,7,8-PeCDF	1.33		J		13C-1,2,3,7,8-PeCDF	83.8	24 - 185	
2,3,4,7,8-PeCDF	0.474		J		13C-2,3,4,7,8-PeCDF	83.2	21 - 178	
1,2,3,4,7,8-HxCDF	16.4				13C-1,2,3,4,7,8-HxCDF	75.3	26 - 152	
1,2,3,6,7,8-HxCDF	5.84				13C-1,2,3,6,7,8-HxCDF	79.4	26 - 123	
2,3,4,6,7,8-HxCDF	0.874		J		13C-2,3,4,6,7,8-HxCDF	80.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.496		J		13C-1,2,3,7,8,9-HxCDF	74.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	12.1				13C-1,2,3,4,6,7,8-HpCDF	77.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.59				13C-1,2,3,4,7,8,9-HpCDF	72.4	26 - 138	
OCDF	9.71				13C-OCDF	61.0	17 - 157	
				CRS	37Cl-2,3,7,8-TCDD	76.7	35 - 197	
					Toxic Equivalent Quotient (TE	EQ) Data (pg/g	dry wt)	
					TEQMinWHO2005Dioxin	2.99		
TOTALS								
Total TCDD	ND	0.146						
Total PeCDD	ND	0.155						
Total HxCDD	4.30							
Total HpCDD	39.0							
Total TCDF	1.46							
Total PeCDF	4.19							
Total HxCDF	27.4							
Total HpCDF DL - Sample specifc esti	20.2							

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: PDI-17	5SC-A-02-03-200522							EPA Me	thod 1613B
Project: Gased	or QEA, LLC o PDI ay-2020 9:25	Matr	ple Size: 11.5 g		Lat QC	boratory Data           5 Sample:         2001155-04           2 Batch:         B0F0086           te Analyzed :         28-Jun-20 18:07	Date Received: Date Extracted 7 Column: ZB-5MS	: 11-Jun-2020	
Analyte Conc.	. (pg/g )	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.120			IS	13C-2,3,7,8-TCDD	84.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0723				13C-1,2,3,7,8-PeCDD	99.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.122				13C-1,2,3,4,7,8-HxCDD	75.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.119				13C-1,2,3,6,7,8-HxCDD	88.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.148				13C-1,2,3,7,8,9-HxCDD	86.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.210				13C-1,2,3,4,6,7,8-HpCDD	78.1	23 - 140	
OCDD	0.608			J		13C-OCDD	64.7	17 - 157	
2,3,7,8-TCDF	ND	0.0795				13C-2,3,7,8-TCDF	74.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0560				13C-1,2,3,7,8-PeCDF	93.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0516				13C-2,3,4,7,8-PeCDF	98.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0565				13C-1,2,3,4,7,8-HxCDF	80.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0508				13C-1,2,3,6,7,8-HxCDF	86.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0533				13C-2,3,4,6,7,8-HxCDF	92.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0871				13C-1,2,3,7,8,9-HxCDF	86.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0857				13C-1,2,3,4,6,7,8-HpCDF	86.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.101				13C-1,2,3,4,7,8,9-HpCDF	79.7	26 - 138	
OCDF	ND	0.164				13C-OCDF	68.8	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	99.7	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g dry	wt)	
						TEQMinWHO2005Dioxin	0.000182		
TOTALS									
Total TCDD	ND	0.120							
Total PeCDD	ND	0.0723							
Total HxCDD	ND	0.148							
Total HpCDD	ND	0.210							
Total TCDF	ND	0.0795							
Total PeCDF	ND	0.0560							
Total HxCDF	ND	0.0871							
Total HpCDF	ND	0.101				NT T / 11' '/ / 11' '/			

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: Dup	olicate							EPA Met	hod 1613B
Source Client ID: Source LabNumber: Matrix: Sample Size:	PDI-175SC-A-02-03-200522 2001155-04 Solid 11.5 g		QC Batch: Date Extracted:	B0F0086 11-Jun-2020 16:31	Lab San Date An	•	mn: ZB-5MS		
Analyte	Conc. (pg/g )	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.124			IS	13C-2,3,7,8-TCDD	83.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.106				13C-1,2,3,7,8-PeCDD	101	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.135				13C-1,2,3,4,7,8-HxCDD	79.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.121				13C-1,2,3,6,7,8-HxCDD	86.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.150				13C-1,2,3,7,8,9-HxCDD	84.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.300				13C-1,2,3,4,6,7,8-HpCDD	77.2	23 - 140	
OCDD	1.89			J		13C-OCDD	66.4	17 - 157	
2,3,7,8-TCDF	ND	0.0742				13C-2,3,7,8-TCDF	70.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0473				13C-1,2,3,7,8-PeCDF	97.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0410				13C-2,3,4,7,8-PeCDF	105	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0613				13C-1,2,3,4,7,8-HxCDF	81.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0594				13C-1,2,3,6,7,8-HxCDF	83.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0639				13C-2,3,4,6,7,8-HxCDF	89.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0978				13C-1,2,3,7,8,9-HxCDF	84.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.138				13C-1,2,3,4,6,7,8-HpCDF	87.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.179				13C-1,2,3,4,7,8,9-HpCDF	83.9	26 - 138	
OCDF	ND	0.159				13C-OCDF	70.2	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	88.3	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g dr	y wt)	
						TEQMinWHO2005Dioxin	0.000567		
TOTALS									
Total TCDD	ND	0.124							
Total PeCDD	ND	0.106							
Total HxCDD	ND		0.236						
Total HpCDD	ND	0.300							
Total TCDF	ND	0.0742							
Total PeCDF	ND	0.0473							
Total HxCDF	ND	0.0978							
Total HpCDF	ND	0.179							

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.

Source Client ID:PDI-175SC-A-02-03-200522Source LabNumber:2001155-04Matrix:Solid						te Lab Sample: B0F0086-I	DUP2		thod 1613B
Analyte	Dup Conc. (pg/g )	Source Conc.	RPD	<b>RPD</b> Limits		Labeled Standard	Dup %R	Source %R	LCL-UCL
2,3,7,8-TCDD	ND	ND	NA	25	IS	13C-2,3,7,8-TCDD	83.1	84.0	25 - 164
1,2,3,7,8-PeCDD	ND	ND	NA	25		13C-1,2,3,7,8-PeCDD	101	99.6	25 - 181
1,2,3,4,7,8-HxCDD	ND	ND	NA	25		13C-1,2,3,4,7,8-HxCDD	79.0	75.8	32 - 141
1,2,3,6,7,8-HxCDD	ND	ND	NA	25		13C-1,2,3,6,7,8-HxCDD	86.5	88.8	28 - 130
1,2,3,7,8,9-HxCDD	ND	ND	NA	25		13C-1,2,3,7,8,9-HxCDD	84.9	86.5	32 - 141
1,2,3,4,6,7,8-HpCDD	ND	ND	NA	25		13C-1,2,3,4,6,7,8-HpCDD	77.2	78.1	23 - 140
OCDD	1.89	0.608	103	25		13C-OCDD	66.4	64.7	17 - 157
2,3,7,8-TCDF	ND	ND	NA	25		13C-2,3,7,8-TCDF	70.6	74.7	24 - 169
1,2,3,7,8-PeCDF	ND	ND	NA	25		13C-1,2,3,7,8-PeCDF	97.7	93.9	24 - 185
2,3,4,7,8-PeCDF	ND	ND	NA	25		13C-2,3,4,7,8-PeCDF	105	98.4	21 - 178
1,2,3,4,7,8-HxCDF	ND	ND	NA	25		13C-1,2,3,4,7,8-HxCDF	81.4	80.8	26 - 152
1,2,3,6,7,8-HxCDF	ND	ND	NA	25		13C-1,2,3,6,7,8-HxCDF	83.7	86.7	26 - 123
2,3,4,6,7,8-HxCDF	ND	ND	NA	25		13C-2,3,4,6,7,8-HxCDF	89.0	92.2	28 - 136
1,2,3,7,8,9-HxCDF	ND	ND	NA	25		13C-1,2,3,7,8,9-HxCDF	84.7	86.0	29 - 147
1,2,3,4,6,7,8-HpCDF	ND	ND	NA	25		13C-1,2,3,4,6,7,8-HpCDF	87.3	86.2	28 - 143
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25		13C-1,2,3,4,7,8,9-HpCDF	83.9	79.7	26 - 138
OCDF	ND	ND	NA	25		13C-OCDF	70.2	68.8	17 - 157
					CRS	37Cl-2,3,7,8-TCDD	88.3	99.7	35 - 197

LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight.

The sample size is reported in wet weight.Results

reported to the MDL

Sample ID: PDI-17	58C-A-03-04-200522							EPA Me	thod 1613B
Project: Gased	or QEA, LLC 9 PDI ay-2020 9:25	Matr	le Data rix: Sediment ple Size: 11.6 g blids: 86.9		Lab QC	boratory Data           Sample:         2001155-05           Batch:         B0F0086           te Analyzed :         28-Jun-20 19:39	Date Received Date Extracted O Column: ZB-5M		
Analyte Conc.	(pg/g )	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.118			IS	13C-2,3,7,8-TCDD	90.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.107				13C-1,2,3,7,8-PeCDD	105	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.130				13C-1,2,3,4,7,8-HxCDD	73.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.117				13C-1,2,3,6,7,8-HxCDD	88.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.146				13C-1,2,3,7,8,9-HxCDD	87.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.227				13C-1,2,3,4,6,7,8-HpCDD	72.6	23 - 140	
OCDD	0.539			J		13C-OCDD	59.7	17 - 157	
2,3,7,8-TCDF	ND	0.0881				13C-2,3,7,8-TCDF	81.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0973				13C-1,2,3,7,8-PeCDF	103	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0864				13C-2,3,4,7,8-PeCDF	99.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0796				13C-1,2,3,4,7,8-HxCDF	80.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0730				13C-1,2,3,6,7,8-HxCDF	88.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0828				13C-2,3,4,6,7,8-HxCDF	88.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.130				13C-1,2,3,7,8,9-HxCDF	80.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.114				13C-1,2,3,4,6,7,8-HpCDF	80.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.146				13C-1,2,3,4,7,8,9-HpCDF	73.3	26 - 138	
OCDF	ND	0.251				13C-OCDF	64.7	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	104	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g dry	wt)	
						TEQMinWHO2005Dioxin	0.000162		
TOTALS									
Total TCDD	ND	0.118							
Total PeCDD	ND	0.107							
Total HxCDD	ND	0.146							
Total HpCDD	ND	0.227							
Total TCDF	ND	0.0881							
Total PeCDF	ND	0.0973							
Total HxCDF	ND	0.130							
Total HpCDF	ND	0.146							

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.

# DATA QUALIFIERS & ABBREVIATIONS

В	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
Н	Recovery and/or RPD was outside laboratory acceptance limits
Ι	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
М	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
Р	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.

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-В
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

## Vista Analytical Laboratory Certifications

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	EPA 23
Dibenzofurans	
Determination of Polychlorinated p-Dioxins & Polychlorinated	EPA TO-9A
Dibenzofurans	

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

	V.	ANCHOR DEA CCCC venue, Suite 2600, Seattle, WA 98101	ENVIR	ONM	ENTAL SAI	MPLE	CH	AIN	OF CUSTODY	COC ID:	VISTA-20200	522-101746
	POC: *	Delaney Peterson (360-715-27	aney Peterson (360-715-2707)		Project:	Gasco	Gasco PDI		9.7°C	Sample Custodian:	CO	522-101140
		1605 Cornwall Avenue, Belling	ham, WA	98225	Client:	NW N	latural		2001155	Lab:	VISTA	
	COC Sample Number	Field Sample ID	Sample Type	Matrix	Collecte	d Time	# Containers	Lab QC*	Test Request	Method	TAT**	Preservative
	001	PDI-1175SC-A-01-02-200522	FD	SE	05/22/2020		1				12-19-19-19-19-19-19-19-19-19-19-19-19-19-	18 . 2019
					•				Dioxin/Furans	E1613B	30	4°C
20		PDI-175SC-A-00-01-200522		05	0.5.10.0.000				Total solids (VISTA)	SM2540G	30	4°C
e*	002	PDI-175SC-A-00-01-200522	<u>N</u>	SE	05/22/2020	9:25	1		Dioxin/Furans	E1613B	30	4°C
								R	PCB Congeners	E1668A	30	4°C
								olr	Total solids (VISTA)	SM2540G	30	4°C
	003	PDI-175SC-A-01-02-200522	N	SE	05/22/2020	9:25	1				The second second	
									Dioxin/Furans	E1613B	30	4°C
									Total solids (VISTA)	SM2540G	30	4°C
	004	PDI-175SC-A-02-03-200522	N	SE	05/22/2020	9:25	2	X	A large - tarker for the start			
									Dioxin/Furans	E1613B	30	4°C
									Total solids (VISTA)	SM2540G	30	4°C
	005	PDI-175SC-A-03-04-200522	N	SE	05/22/2020	9:25	1					
					•				Dioxin/Furans	E1613B	30	4°C
									Total solids (VISTA)	SM2540G	30	4°C

Comment: W0# 2001156				
	Defension a Dec			Desile 2
Relinquished By:	Relinguished By:	Received By:	Relinguished By:	Received By: Signature
Print Name Seism Noryign Print Name R. Wayd	Print Name	Print Name	Print Name	Print Name
company Ancher DEA company AL	Company	Company	Company	Company
Date/Time SIZI ( 1 1045 5-27-20 10:27	Date/Time	Date/Time	Date/Time	Date/Time
	normalization have in sharehold ## TAT T		iest Baint of Cantool	

Date Printed: 5/22/2020

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



# Sample Log-In Checklist

						Pag	ge # _	<u> </u>	of/	_
Vista Work Orde	r #: _2001	155				ТА	т			_
Samples	Date/Time			Initials:	)	Locat	ion:	WR-	2	
Arrival:	5-27-	20 /	0:27	Wh	N	Shelf/	Rack	:,	VA	_
Delivered By:	FedEx	UPS	On Tra	IC GLS	DHI	- c	Hand eliver		Oth	er
Preservation:	lce		Blu	ue lce		Dry I	се		No	ne
Temp °C: 9,7	7 (uncorrect	ted)		. 6					DT	:2
Temp °C: 9,-	7 (corrected	)	robe use	ed: ��/ N		Therm	nome	ter ID:	<u> </u>	2
						Annual Contractor	territ, constant states			
								YES	NO	NA
Shipping Contain	er(s) Intact?							$\mathcal{V}$	ŕ	
Shipping Custod	y Seals Intac	t?						$\mathcal{V}$	7	
Airbill	Trk #	7	705	4897	19	61		$\mathcal{V}$	1	
Shipping Docum	entation Pres	ent?						$\mathcal{V}$		
Shipping Contain	ier	V	'ista	Client	) R	etain	Re	eturn	Disp	oose

Initials:

Comments:

Logged In:

Holding Time Acceptable?

ID.: LR – SLC

0623

Chain of Custody / Sample Documentation Present? Chain of Custody / Sample Documentation Complete?

Date/Time

05/28/20

COC Anomaly/Sample Acceptance Form completed?

Page: 1 of 1

WR-2

G - 4

Location:

Shelf/Rack:

# CoC/Label Reconciliation Report WO# 2001155

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2001155-01	A PDI-1175SC-A-01-02-200522	<b>I</b>	and the set of the set	22-May-20 09:25	ত	Amber Glass, 120 mL	Solid	
2001155-02	A PDI-175SC-A-00-01-200522			22-May-20 09:25		Amber Glass, 120 mL	Solid	
2001155-03	A PDI-175SC-A-01-02-200522			22-May-20 09:25		Amber Glass, 120 mL	Solid	
2001155-04	A PDI-175SC-A-02-03-200522			22-May-20 09:25		Amber Glass, 120 mL	Solid	DUP
2001155-04	B PDI-175SC-A-02-03-200522			22-May-20 09:25	ব্র	Amber Glass, 120 mL	Solid	DUP
2001155-05	A PDI-175SC-A-03-04-200522			22-May-20 09:25		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	Comment
Sample Container Intact?	$\checkmark$			Ī
Sample Custody Seals Intact?			~	İ
Adequate Sample Volume?	$\checkmark$			Ì
Container Type Appropriate for Analysis(es)				Ì
Preservation Documented: Na2S2O3 Trizma None Other		$\checkmark$	$\checkmark$	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			$\checkmark$	

Verifed by/Date: <u>KS 05/28/20</u>



ANOMAL	Y.	F	OR	M
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# Vista Work Order <u>2001155</u>

Initial/Date	The fo	llowing checked issues were noted during sample receipt and login:
<u>KS 05128/20</u>	X	1. The samples were received out of temperature at (WI-PHT): <u>9.7°C</u> Was Ice present: Yes No Melted Blue Ice
		2. The Chain-of-Custody (CoC) was not relinquished properly.
		3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.
		4. The sample(s) did not include a sample collection time. All or Sample Name:
		5. A sample ID discrepancy was found. See the Reconciliation report. The CoC Sample ID will be used unless notified otherwise.
		6. A sample date and/or time discrepancy was found. See the Reconciliation report. The CoC Sample date/time will be used unless notified otherwise.
		7. The CoC did not include a sample matrix. The following sample matrix will be used:
		8. Insufficent volume received for analysis. All or Sample Name:
		9. The backup bottle was received broken. Sample Name:
		10. CoC not received, illegible or destroyed.
		11. The sample(s) were received out of holding time. All or Sample Name:
		12. The CoC did not include an analysis. All or Sample Name:
		13. Sample(s) received without collection date. All or Sample Name:
		14. Sample(s) not received. All or Sample Name:
		15. Sample(s) received broken. All or Sample Name:
		16. An incorrect container-type was used. All or Sample Name:
		17. Other:

Bolded items require sign-off	
Client Contacted: Delaney Peterson	
Date of Contact: 05 28 20	
Vista Client Manager: Jade White	<u>.</u>
Resolution: Per Delaney Peterson via e	mail on 05/28/20, 0kay to proceed

# **EXTRACTION INFORMATION**

## Process Sheet Workorder: 2001155

<sup>•</sup> Prep Expiration: 2021-05-22 Client: Anchor QEA, LLC

## Workorder Due:24-Jun-20 00:00

TAT: 28

Method Matrix	: 1613 Full List : Solid	Pr	rep Batch: 60 F @ 86
Client Matrix: Also run:	Sediment Percent Solids	Prep Data E	Entered: <u><i>CM</i></u> <i>Ob</i> /16/20 Date and Initials
		Initial S	Sequence: SOFOO90
LabSampleID	Reçon ClientSampleID	Date Received	Location Comments
2001155-01 <u>A</u>	PDI-1175SC-A-01-02-200522	27-May-20 10:27	WR-2 G-4
2001155-02	PDI-175SC-A-00-01-200522	27-May-20 10:27	WR-2 G-4
2001155-03	PDI-175SC-A-01-02-200522	27-May-20 10:27	WR-2 G-4
2001155-04	PDI-175SC-A-02-03-200522	27-May-20 10:27	WR-2 G-4 DUP
2001155-05	PDI-175SC-A-03-04-200522	27-May-20 10:27	WR-2 G-4

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

Pre-Prep Check Out: CHT 05/74/70	Prep Check Out: PR 66/13/20	Prep Reconciled Initals/Date: CHT 05/24/20
Pre-Prep Check In: <u>CHT 05/24/20</u>	Prep Check In: <u>P.P. 06/13/20</u>	Spike Reconciled Initals/Date: P.P. 06/13/20
		VialBoxID: CURVE

Page 1 of 1

#### PREPARATION BENCH SHEET

Matrix: Solid

## B0F0086

Chemist: \_\_\_\_\_\_\_R

Method: 1613 Full List

#### Prepared using: HRMS - Soxhlet

Prep Date/Time: 11-Jun-20 16:31

					Pr	epared using	: HR	MS - Soxhi	let							
					Colu	ımn Packer:			Τ							
Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CHI	RS/PS EM/WIT DATE		AP CHEM/ DATE		ABSG CHEM/ DATE	C	AA HEM/ DATE	CH	risil EM/ ATE	CHE	RS M/WIT ATE
1.1	BOF0086-BLK1	IVA	(10,00)	RP DF ad 13/2	Ell A	z 06/14/20	E	06/14/20	l	M06/15720	Ell	06/15720	Ell.	0415720	U	AZ (16/16/21
A2	B0F0086-BS1	$\checkmark$	(10,00)		Т	- /	↓ ↓						l		٦	
A3	B0F0086-DUP1	16,70	16.73				Ell	00/14/20		reliom/lorown						
АY	B0F0086-DUP2 2001155-04	11.39	11.49				N	A.								
A5	B0F0086-DUP3 2001132-01	12.62	12.72					L		brown						
A6	2000996-02RE1	16.70	16.80				Ell	06/14/20		yerne horown						
A7	2001007-04RE1	13.39	13,46				T			vellow/black						
	2001007-05RE1	16.13	16.36													
	2001007-06RE1	16.96	17.18				V									
		12.62	12.63				14	ê		brown						
1.	2001132-02	11.25	11.27													
	2001132-03	10.91	10.96													
17	2001132-04	11.67	11.72													
	2001132-05	13.36	13.49				<u> </u>									
B3	2001155-01 04	11.05	11.08	N/		<u> </u>	YIL	06/14/2	0	AFTIOM PLAD	<u>۸</u>	N	<u> </u>		,	$\bigvee$
	192301,10ml 4 1871913,10ml 4 18:20E0701,10ML 20E0702,10ML (	() () () () () () () () () () () () () (	rt Date/Time //3/20 600	APP: SEFUN SC SOLV: T6/UE Other VA Final Volume(s)	ne	Check Out: Chemist/Date: Check In: Chemist/Date: Balance ID: <u>H</u>	220	6/13/20	Chen <b> <u> </u> <u> </u> <u> </u> <u> </u> </b>	Iet Siphoned hist/Date: bb/13/200 Gransfer hist/Date:	tes: Samp YUN Samp	les look extract es went 21 aftl	visib ion thro	yeu of yeu of ugh i	feren 0/14/2 2nd si	t 20 hifate
Diox/j	F PCB PAH PEST PBDE		0800		oul					<u> </u>	ywww	i yu	~ <del></del>		YW	06/14/20
2 = Sa 3 = Sa	umple approached dryness on umple bumped on rotovap; lo umple poured through Na2SC ecipitate present at Final Vol	st < 5% )4 to remove ume	6 =	(b) Sample homogenized Sample clogged durin Sohxlet approached d	l in seconda ng extaction	SIGUE ON ry container 610 ; pipetted and us	wdou	NN (NOT CN	yst	alized ()	nove Nate	d vouv , cluvii	NG	tom <u>i</u> Slovis		W 06/15/22
	Work Order 20011:	>>													Page 2	25 of 638

#### **PREPARATION BENCH SHEET**

Matrix: Solid

#### B0F0086

# Chemist: \_\_\_\_\_\_

Method: 1613 Full List

#### **Prepared using: HRMS - Soxhlet**

Prep Date/Time: 11-Jun-20 16:31

						Column Packer:					
	Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
	B4	2001155-02	10.88	11.02	RR DFOHIND	Ell AZ 06/14/20	ELL 04/14/20	Ell ad 15720	Ell 01/15/20	EU 0415720	4111 AZ 00/16/20
ę	B5	2001155-03	11.01	11.03	T	T	Ţ	TI		T	TT
7	助	2001155-04	11.39	11.47			N/A				
6	<b>B</b> 7	2001155-05	I)[a]	11,58	X	V					$\bigvee$

\* 11 06/14/20

© moved voundbottom under column late during flovisil Ell 06/15720

5 = Sample homogenized in secondary container

7 = Sohxlet approached dryness

6 = Sample clogged during extaction; pipetted and used Nitrogen to assist

IS:		0, 9, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	APP: SEFUN SOX (SDS SOLV: Toluene	Check Out: Chemist/Date: 2-2-06/13/20	Soxhlet Siphoned Chemist/Date:	Notes:
	18: 71913, 10, 1 VO s: 20E0 701, 10, 1000	Start Date/Time 66/13/20 1600	N/A	Check In: Chemist/Date: P.P. 06/13/20	RP 06/13/20	
				Balance ID: HPMS-8	Vial Transfer Chemist/Date:	
	PCB PAH PEST PBDE HCB		ZOML		Ell 06/16/20	

#### Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water

4 = Precipitate present at Final Volume

Work Order 2001155

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# D2216-90 BATCH ID B0E0247 Analyst: CHT / Test Code: %Moist/%Solids Data Entry Verified by: (Initial and Date) CHY Data Entry Verified by: (Initial and Date) CHY O (6 | §/2/20)

		1
Inst	HRMS-9	~

#### Date/Time IN: , Date/Time OUT, 5/29/20 11:15 ✓ 6/1/20 9:50 ✓

	В	С	D	ε	F	G	н	1	к			N	0	Р
					СНТ 05/29/20 🗸	CHT 06/01/20 J			CHT 05/29/2	5-2				CHT 05/2920 🗸
Particle Size	SamplD		SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection		Before		Acid Added	Sample Homogenized*
	2001155-01	A 🗸	Sample	1.3000 🗸	5.6000 J	5.1900 J	3.8900	90.47	Soil 🗸			N/A	N/A	x 🗸
	2001155-02	A	Samp <del>le</del>	1.3000 🗸	5.1500 /	<b>4.8400</b> √	3.5400	91.95		N/A		N/A	N/A	× 🗸
	2001155-03	A /	Samp <del>le</del>	1.3000 🗸	5.9800 🗸	5.5500 🗸	4.2500	90.81		N/A		N/A	N/A	× ⁄
	2001155-04	A	Sample	1.3100 /	5.5700 🗸	5.0500 /	3.7400	87.79		N/A		N/A	N/A	× ✓
	2001155-05	A	Sample	1.3000 🗸	6.1900 🗸	5.5500 🗸	4.2500	86.91	Soil√	N/A	N/A	N/A	N/A	x 🗸
	_													
													_	
									<b>_</b>					
		_												
												· ·		

\*Sample homogenized in sample container unless otherwise noted.

# D2216-90 BATCH ID B0E0247

and a second

#### Date/Time IN: Date/Time OUT Inst HRMS-9 05/29/20 06/01/20 0450 1115 В С D н G κ М Ν 0 CHT 05/29/70 CHT 05/24/20 Intial and Date: CHT Obroilzo CHT 05129120 Pan Wet Pan and Sample Dry Pan and Sample **Dry Sample** %Solids Cŀ pH Acid Particle Size SampID SampType Visual pН Sample Tare Wt. (gms) Weight (g) Weight (g) RawVal Before After Added Weight (g) Inspection Homogenized\* 5.19 5.60 Soil 1.30 2001155-01 Sample <del>. M</del>t CHI 4.84 5.15 1.50 1 2001155-02 Sample 06/01/20 5.55 1.30 5.98 00/01/ 2001155-03 1 Sample 1.3 5.57 5.05 2001155-04 1 Sample $\mathbf{r}$ / 5.55 1.30 6.19 J 2001155-05 Sample

\*Sample homogenized in sample container unless otherwise noted.

BCH\_PMOIST\_B0E0247

# Batch: B0F0086

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000996-02RE1	<u>16.8 √</u>	59.88593	10.0608	20 7					Sediment	1613 Full List
2001007-04RE1	13.46 J	74.69697	10.0542	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001007-05RE1	16.36	61.99525	10.1424	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001007-06RE1	1 <b>7.18</b> J	58.94736	10.1272	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-01	<b>12.63 √</b>	79.25764	10.0102	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-02	11.27 🗸	88.91625	10.0209	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-03	10.96 J	91.61848	10.0414	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-04	11.72 √	85.66978	10.0405	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001132-05	13.49 J	74.82679	10.0941	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-01	11.08 🗸	90.46512	10.0235	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-02	11.02 ✓	91.94805	10.1327	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-03	11.03 🗸	90.81197	10.0166	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-04	11.47 🗸	87.79343	10.0699	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
2001155-05	11.58 √	86.91207	10.0644	20	11-Jun-20 16:31	RR			Sediment	1613 Full List
B0F0086-BLK1	10 J	100	(10.00)	20	11-Jun-20 16:31	RR				QC
B0F0086-BS1	10 J	100	(10.00)	20	11-Jun-20 16:31	RR	18F1913	✓ 10 ✓		QC
B0F0086-DUP1	<b>16.73</b> √	59.88593	10.0189161	20	11-Jun-20 16:31	RR				QC
B0F0086-DUP2	11.49 ✓	87.79343	10.0874651	20	11-Jun-20 16:31	RR				QC
B0F0086-DUP3	12.72 J	79.25764	10.0815718	20	/ 11-Jun-20 16:31	RR 🗸				QC

All bolded data on report verified against written benchsheet by (initial/date)  $\mathcal{GM}_{00/10/20}$ 

Work Order 2001155

Printed: 6/16/2020 12:39:21PM Page 1 of 1

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## SAMPLE DATA – EPA METHOD 1613

Quantify Sample Summary Report Vista Analytical Laboratory		MassLynx 4.1		
Dataset:	U:\VG7.PRO\Results\20	0623D2\200623D2_5.qld		
Last Altered: Printed:		020 11:52:58 Pacific Daylight Time 020 11:53:54 Pacific Daylight Time	)B	6/24/20

C7 06/25/2020

#### Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

#### Name: 200623D2\_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

State .	# 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	0.986	10.000	26.081		1.001				0.519 0.479
2	2 1,2,3,7,8-PeCDD			NO	0.964	10.000	30.629		1.001				0.418
3	3 1,2,3,4,7,8-HxCDD			NO	1.16	10.000	33.916		1.000				0.605
4	4 1,2,3,6,7,8-HxCDD			NO	1.01	10.000	34.016		1.000				0.665
5	5 1,2,3,7,8,9-HxCDD			NO	1.01	10.000	34.346		1.001				0.716
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.997	10.000	37.801		1.000				1.26
7	7 OCDD			NO	1.01	10.000	41.038		1.000				1.09
8	8 2,3,7,8-TCDF			NO	0.833	10.000	25.280		1.001				0.393
9	9 1,2,3,7,8-PeCDF			NO	0.965	10.000	29.442		1.001				0.201
10	10 2,3,4,7,8-PeCDF			NO	1.01	10.000	30.357		1.001				0.195
11	11 1,2,3,4,7,8-HxCDF			NO	1.09	10.000	33.017		1.000				0.232
12	12 1,2,3,6,7,8-HxCDF			NO	1.07	10.000	33.159		1.000				0.238
13	13 2,3,4,6,7,8-HxCDF			NO	1.15	10.000	33.776		1.001				0.261
14	14 1,2,3,7,8,9-HxCDF			NO	1.11	10.000	34.674		1.000				0.390
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.16	10.000	36.555		1.001				0.321
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.35	10.000	38.317		1.000				0.332
17	17 OCDF			NO	0.949	10.000	41.247		1.000				0.741
18	18 13C-2,3,7,8-TCDD	4.53e4	0.7 <del>9</del>	NO	1.26	10.000	26.131	26.05	1.026	1.023	133.18	66.6	2.53
19	19 13C-1,2,3,7,8-PeCDD	3.80e4	0.64	NO	0.921	10.000	30.614	30.61	1.202	1.202	152.81	76.4	0.719
20	20 13C-1,2,3,4,7,8-HxCDD	2.76e4	1.35	NO	0.707	10.000	33.902	33.91	1.014	1.014	142.62	71.3	2.31
21	21 13C-1,2,3,6,7,8-HxCDD	3.48e4	1.32	NO	0.829	10.000	34.012	34.02	1.017	1.017	153.67	76.8	1.97
22	22 13C-1,2,3,7,8,9-HxCDD	3.21e4	1.31	NO	0.808	10.000	34.283	34.31	1.025	1.026	145.47	72.7	2.02
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.38e4	1.03	NO	0.662	10.000	37.747	37.79	1.129	1.130	131.68	65.8	1.68
24	24 13C-OCDD	3.80e4	0.88	NO	0.608	10.000	40.769	41.04	1.219	1.227	228.33	57.1	1.65
25	25 13C-2,3,7,8-TCDF	6.44e4	0.81	NO	1.07	10.000	25.214	25.25	0.990	0.992	131.83	65. <del>9</del>	1.57
26	26 13C-1,2,3,7,8-PeCDF	6.08e4	1.62	NO	0.826	10.000	29.435	29.42	1.156	1.155	160.80	80.4	1.31
27	27 13C-2,3,4,7,8-PeCDF	5.72e4	1.75	NO	0.796	10.000	30.334	30.33	1.191	1.191	157.17	78.6	1.35
28	28 13C-1,2,3,4,7,8-HxCDF	4.07e4	0.50	NO	1.08	10.000	33.033	33.02	0.988	0.988	138.56	69.3	1.40
29	29 13C-1,2,3,6,7,8-HxCDF	4.53e4	0.51	NO	1.12	10.000	33.167	33.15	0.992	0. <b>991</b>	147.44	73.7	1.34
30	30 13C-2,3,4,6,7,8-HxCDF	3.96e4	0.51	NO	1.02	10.000	33.738	33.74	1.009	1.009	141.44	70.7	1.47
31	31 13C-1,2,3,7,8,9-HxCDF	3.21e4	0.49	NO	0.887	10.000	34.638	34.67	1.036	1.037	132.55	66.3	1.70

# Quantify Sample Summary ReportMassLynx 4.1Vista Analytical Laboratory

#### Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_5.qld

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Last Altered:	Wednesday, June 24, 2020 11:52:58 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:53:54 Pacific Daylight Time

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#### Name: 200623D2\_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

125	# Name	Resp	RA	n/y	RRF	wt/voi	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.95e4	0.42	NO	0.811	10.000	36.343	36.52	1.087	1.092	133.16	66.6	1.63	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.11e4	0.42	NO	0.598	10.000	38.349	38.32	1.147	1.146	128.88	64.4	2.21	
34	34 13C-OCDF	4.68e4	0.88	NO	0.752	10.000	40.923	41.25	1.224	1.234	227.58	56.9	1.64	
35	35 37Cl-2,3,7,8-TCDD	1.87e4			1.24	10.000	26.129	26.07	1.026	1.023	55.790	69.7	0.264	
36	36 13C-1,2,3,4-TCDD	5.40e4	0.83	NO	1.00	10.000	25.480	25.47	1.000	1.000	200.00	100	3.18	
37	37 13C-1,2,3,4-TCDF	9.15e4	0.78	NO	1.00	10.000	24.020	24.02	1.000	1.000	200.00	100	1.67	
38	38 13C-1,2,3,4,6,9-HxCDF	5.47e4	0.49	NO	1.00	10.000	33.530	33.43	1.000	1.000	200.00	100	1.51	
39	39 Total Tetra-Dioxins				0.986	10.000	24.620		0.000				0.359	
40	40 Total Penta-Dioxins				0.964	10.000	29.960		0.000				0.195	
41	41 Total Hexa-Dioxins				1.01	10.000	33.635		0.000				0.289	
42	42 Total Hepta-Dioxins				0.997	10.000	37.640		0.000				0.445	
43	43 Total Tetra-Furans				0.833	10.000	23.610		0.000		0.00000		0.189	0.596
44	44 1st Func. Penta-Furans				0.965	10.000	27.090		0.000				0.0407	
45	45 Total Penta-Furans				0.965	10.000	29.275		0.000				0.0970	
46	46 Total Hexa-Furans				1.15	10.000	33.555		0.000				0.144	
47	47 Total Hepta-Furans				1.16	10.000	37.835		0.000				0.218	

# **Quantify Totals Report MassLynx 4.1**

Vista Analytical Laboratory

Page 1 of 2

U:\VG7.PRO\Results\200623D2\200623D2\_5.qld Dataset:

Last Altered:	Wednesday, June 24, 2020 11:52:58 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:53:54 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Name: 200623D2\_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-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

10.00	Name	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA n/y	Resp	Conc.	EMPC	DL
100000	Sec.									

#### **Hexa-Dioxins**

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

**Hepta-Dioxins** 

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

#### **Tetra-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	25.48	2.011e3	1.458e3	1.128e2	9.042e1	1.25	YES	0.000e0	0.00000	0.59644	0.189

**Penta-Furans function 1** 

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

#### Quantify Totals Report MassLynx 4.1 Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_5.qld

Last Altered: Wednesday, June 24, 2020 11:52:58 Pacific Daylight Time Printed: Wednesday, June 24, 2020 11:53:54 Pacific Daylight Time

Name: 200623D2\_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank

#### Penta-Furans

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

#### Hexa-Furans

1 States	Name	RŤ	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

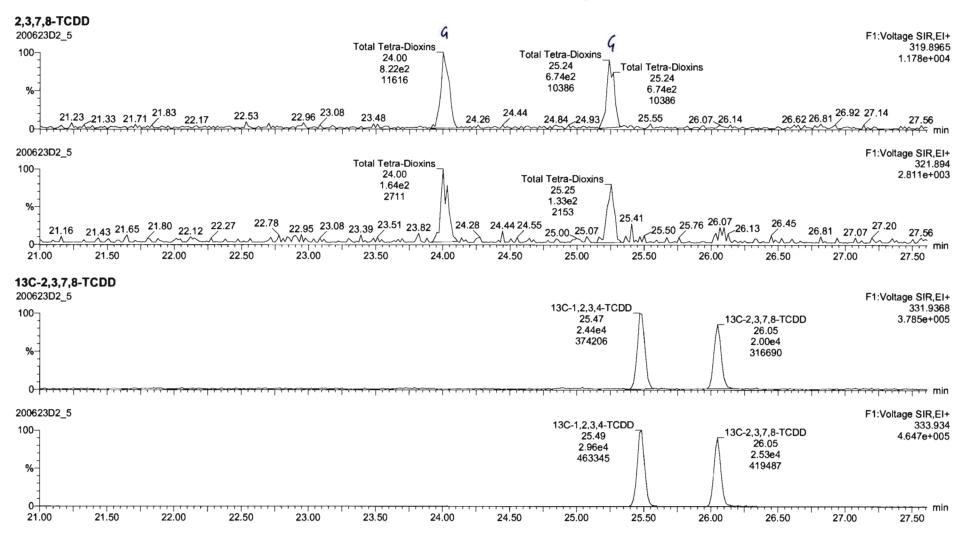
# Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory Vista Analytical Laboratory

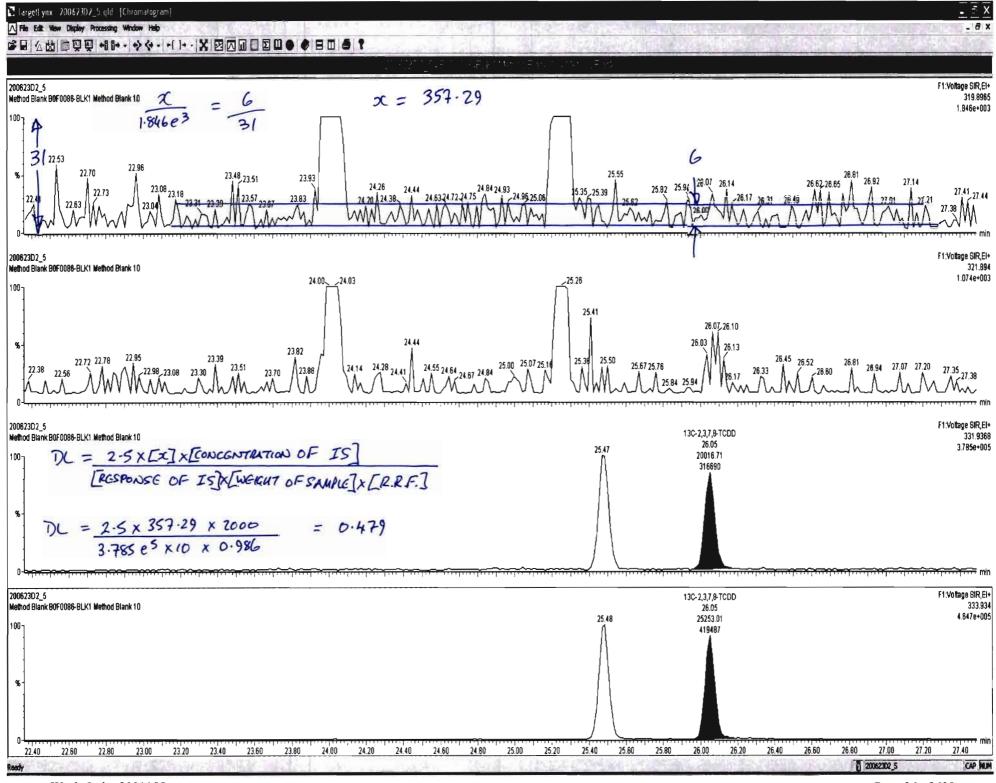
Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_5.qld

Last Altered:	Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

#### Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

#### Name: 200623D2\_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank



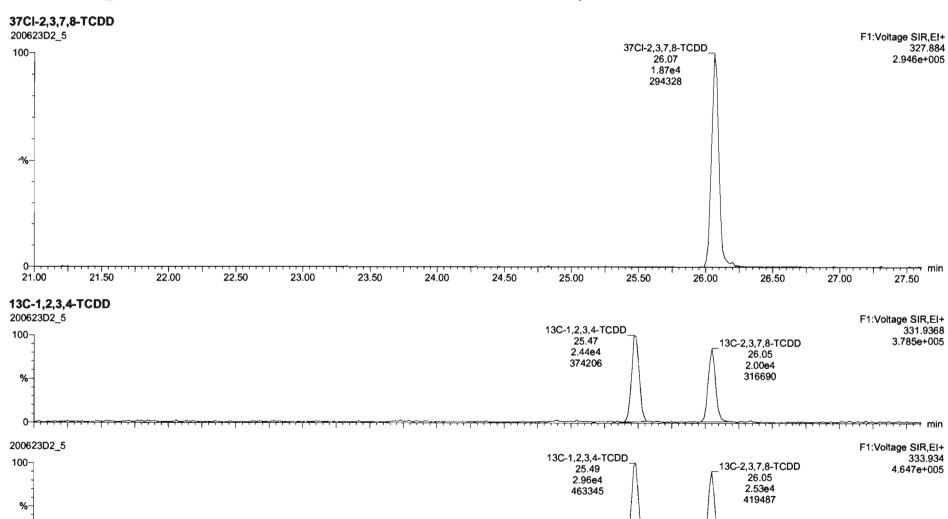


Work Order 2001155

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Quantify San Vista Analytica		Page 2 of 13
Dataset:	U:\VG7.PRO\Results\200623D2\200623D2_5.qld	
Last Altered: Printed:	Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time	

#### Name: 200623D2\_5, Date: 24-Jun-2020, Time: 00:26:03, ID: B0F0086-BLK1 Method Blank 10, Description: Method Blank



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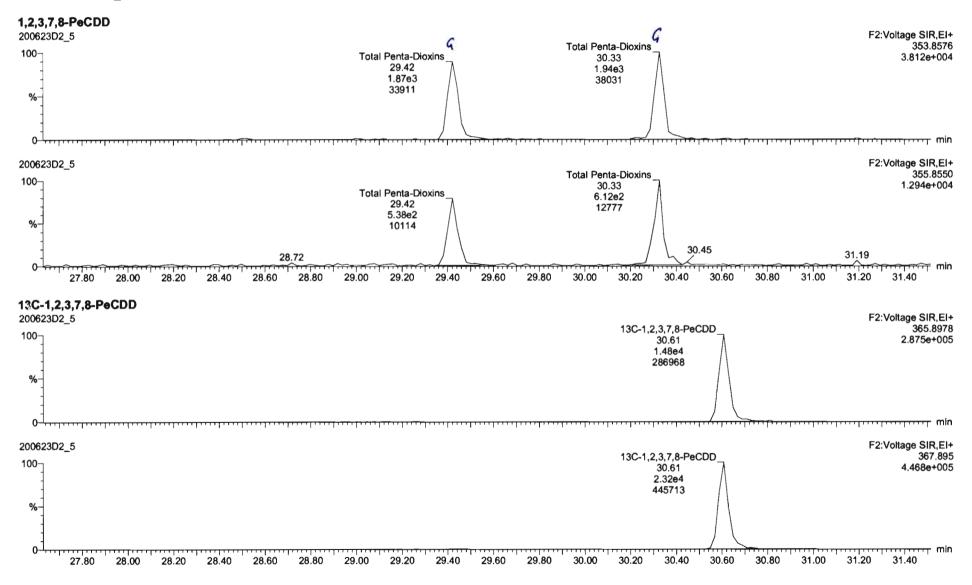
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### Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory MassLynx 4.1

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Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_5.qld

Last Altered:	Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

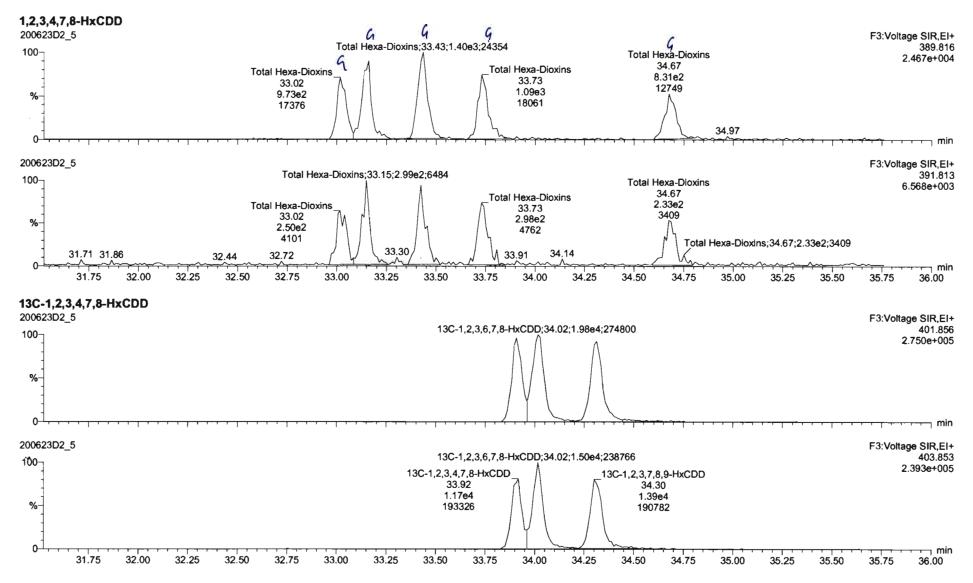


### Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory MassLynx 4.1

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_5.qld

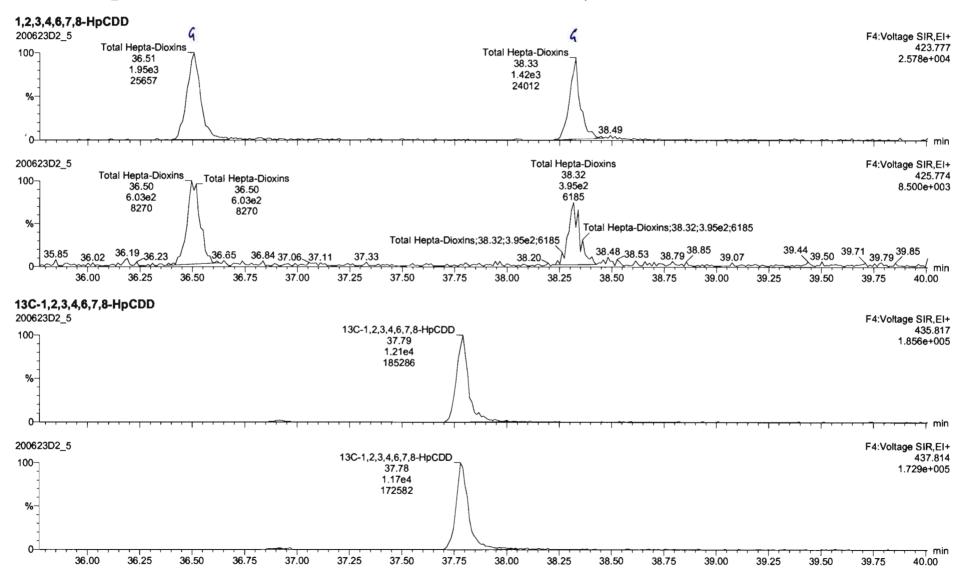
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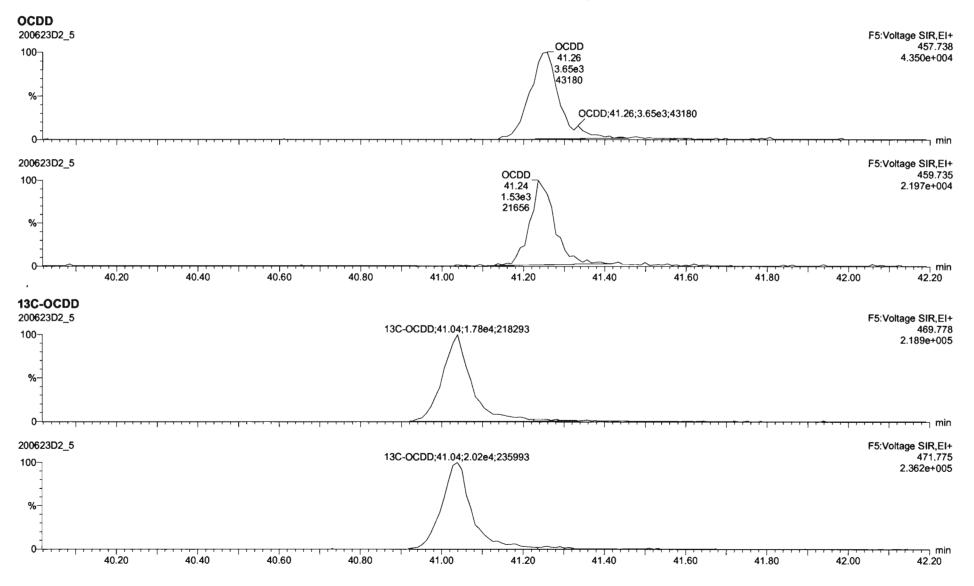
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Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time



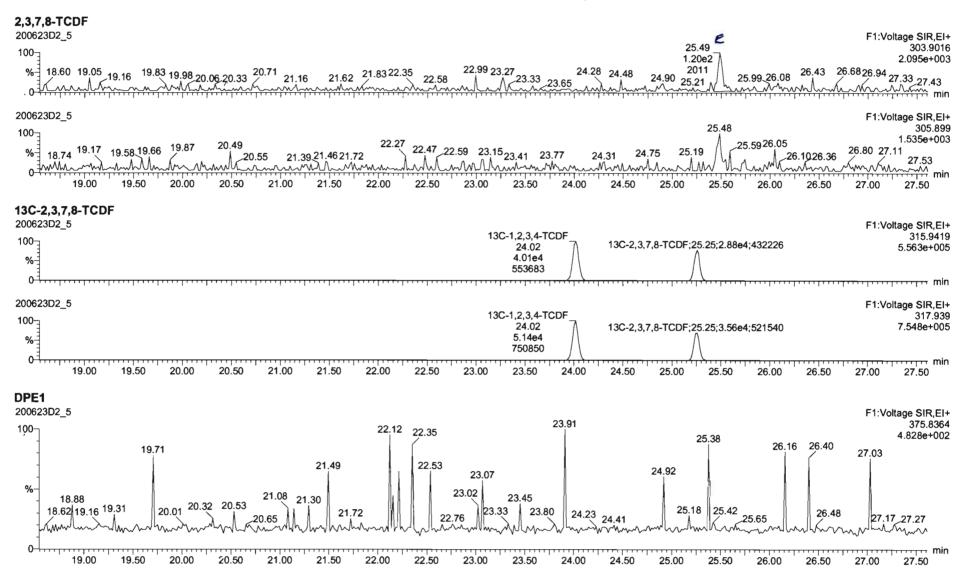
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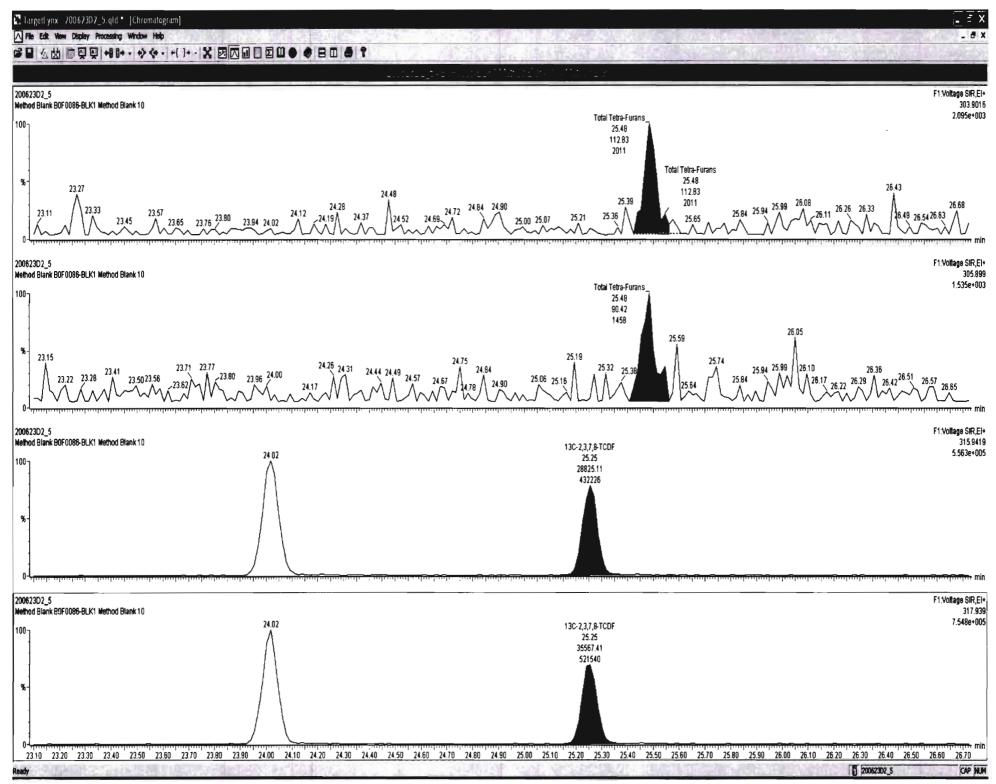
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Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time



#### Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_5.qld

Last Altered:	Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time



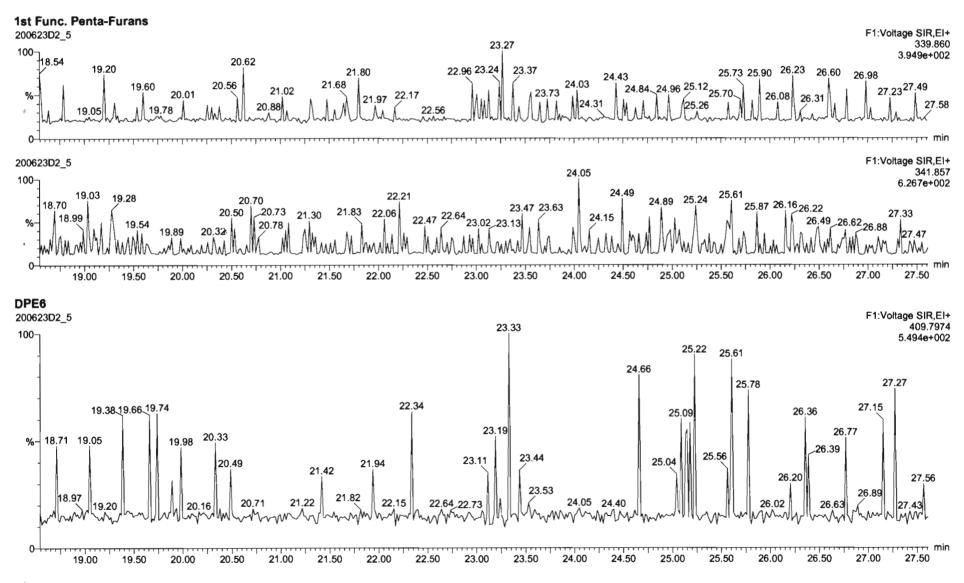


Work Order 2001155

#### **Quantify Sample Report** MassLynx 4.1

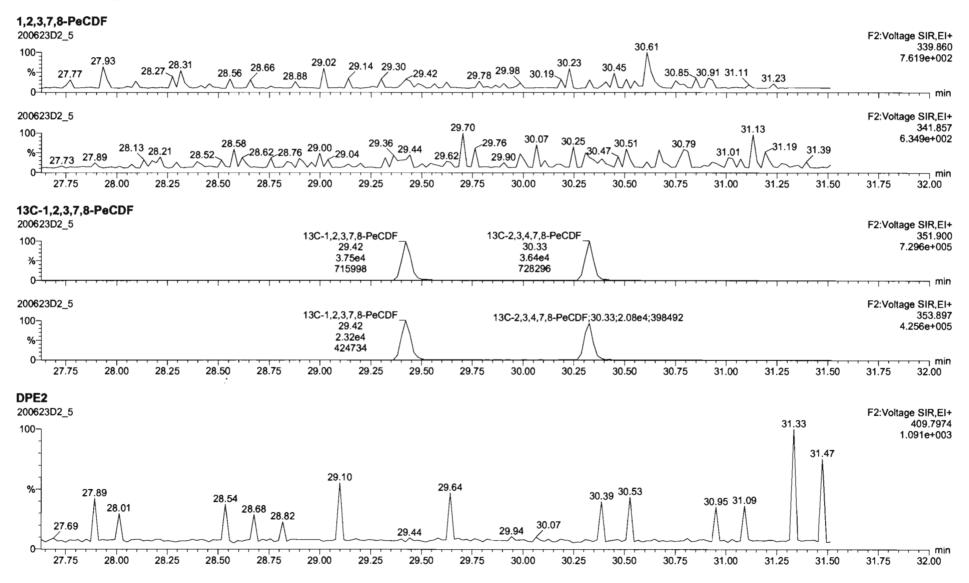
U;\VG7.PRO\Results\200623D2\200623D2 5.gld Dataset:

Last Altered:	Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time



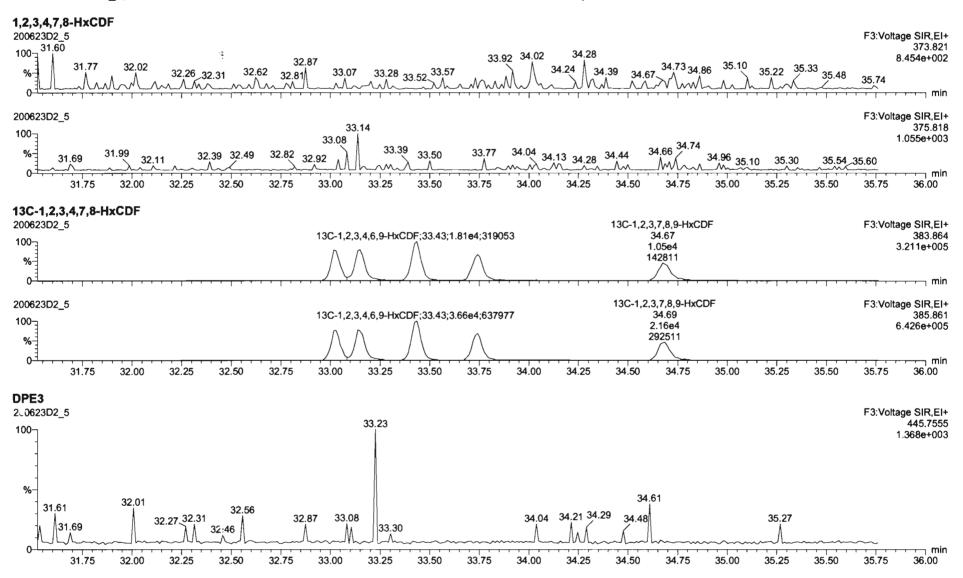
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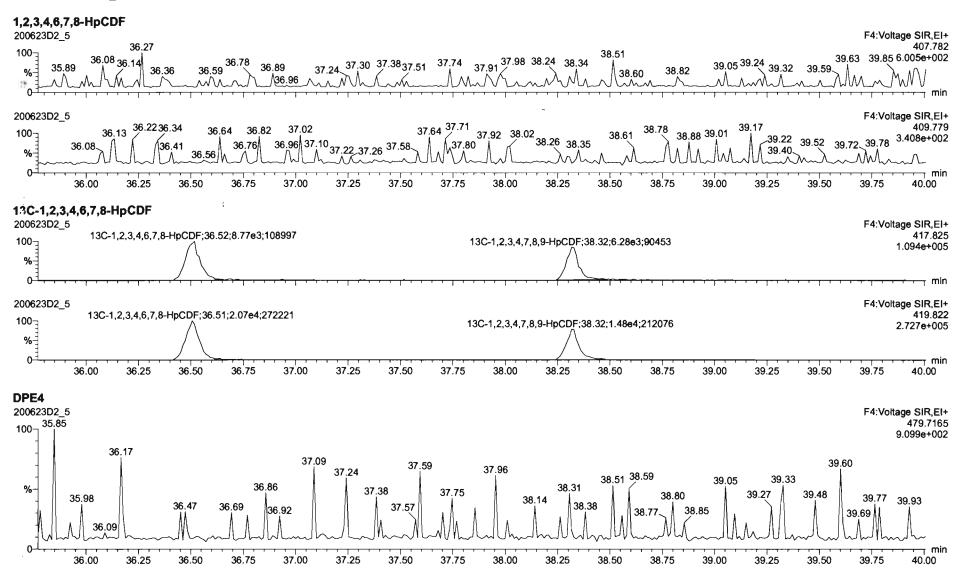
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Last Altered:	Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time



#### Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_5.qld

Last Altered:	Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

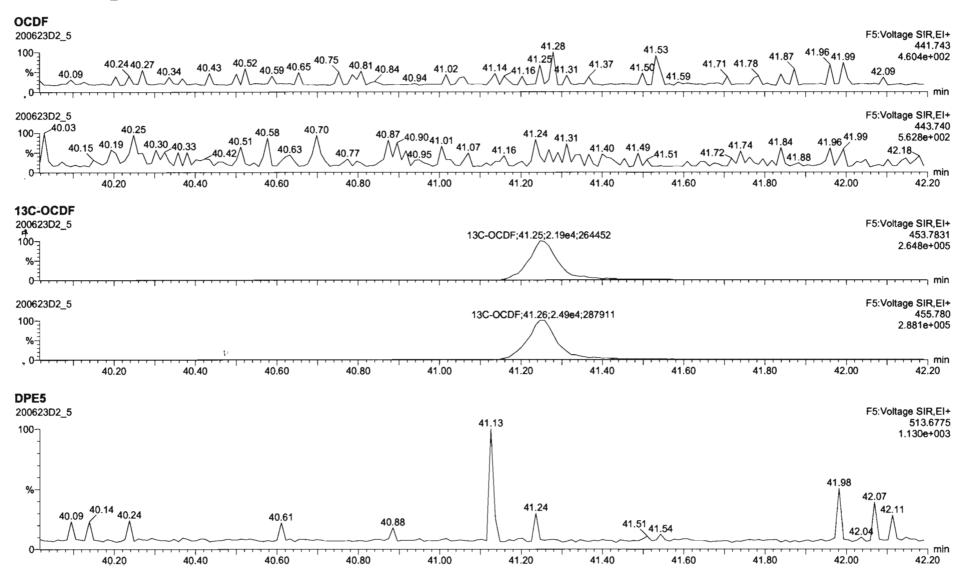


#### Quantify Sample Report MassLynx 4.1

Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_5.qld

Last Altered:	Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time

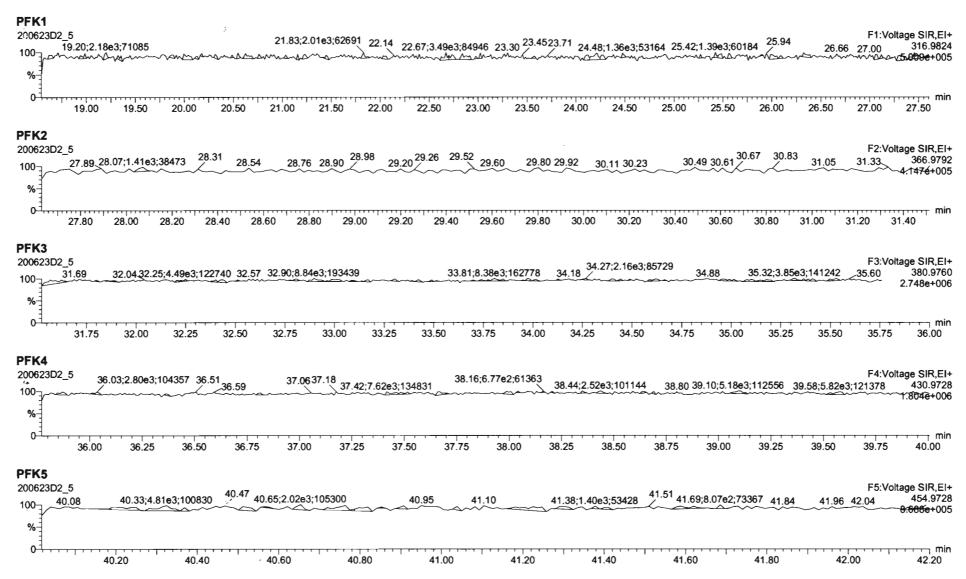


#### **Quantify Sample Report** MassLynx 4.1

Vista Analytical Laboratory

Cataset: U:\VG7.PRO\Results\200623D2\200623D2\_5.qld

Last Altered:	Wednesday, June 24, 2020 10:39:45 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:51:13 Pacific Daylight Time



Quantify San Vista Analytica	ple Summary Report MassLynx 4.1		Pa
Dataset:	U:\VG7.PRO\Results\200623D2\200623D2_3.qld		
Last Altered: Printed:	Wednesday, June 24, 2020 11:41:56 Pacific Daylight Time Wednesday, June 24, 2020 11:43:36 Pacific Daylight Time	DB 6/24/20	C706/25/2020

### Method: C:\MassLynx\Default.pro\Methdb\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

10.00	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1 10 1	1 2,3,7,8-TCDD	9.61e2	0.79	NO	0.986	10.000	26.097	26.10	1.001	1.001	21,264	106 67 - 158	2.60	21.3
2	2 1,2,3,7,8-PeCDD	5.83e3	0.64	NO	0.964	10.000	30.629	30.63	1.001	1.001	102.22	102 70 -142		102
3	3 1,2,3,4,7,8-HxCDD	6.89e3	1.25	NO	1.16	10.000	33.927	33.94	1.000	1.001	92.805	92.8 70 - 164		92.8
4	4 1,2,3,6,7,8-HxCDD	8.48e3	1.27	NO	1.01	10.000	34.027	34.04	1.000	1.000	96.092	96.1 76-134		96.1
5	5 1,2,3,7,8,9-HxCDD	1.08e4	1.19	NO	1.01	10.000	34.346	34.33	1.001	1.001	90.926	90.9 64 - 162	1.37	90.9
6	6 1,2,3,4,6,7,8-HpCDD	9.23e3	1.14	NO	0.997	10.000	37.801	37.80	1.000	1.000	99.656	99.7 70 - 140		99.7
7	7 OCDD	1.59e4	0.83	NO	1.01	10.000	41.038	41.05	1.000	1.000	184.23	92.1 78 - 144	2.27	184
8	8 2,3,7,8-TCDF	1.10e3	0.88	NO	0.833	10.000	25.280	25.29	1.001	1.001	21.615	108 75-158	2.39	21.6
9	9 1,2,3,7,8-PeCDF	7.17e3	1.49	NO	0.965	10.000	29.462	29.44	1.001	1.000	92.990	93.0 80 - 134	1.38	93.0
10	10 2,3,4,7,8-PeCDF	6.81e3	1.43	NO	1.01	10.000	30.356	30.35	1.001	1.001	98.709	98.7 68-160		98.7
11	11 1,2,3,4,7,8-HxCDF	9.79e3	1.23	NO	1.09	10.000	33.039	33.05	1.000	1.000	103.23	103 72-134		103
12	12 1,2,3,6,7,8-HxCDF	1.22e4	1.26	NO	1.07	10.000	33.159	33.17	1.000	1.001	104.30	104 84 - 130		104
13	13 2,3,4,6,7,8-HxCDF	1.38e4	1.26	NO	1.15	10.000	33.786	33.75	1.001	1.000	99.799	99.8 70 - 156		99.8
14	14 1,2,3,7,8,9-HxCDF	9.32e3	1.24	NO	1.11	10.000	34.685	34.70	1.000	1.000	100.17	100 78 -130	2.37	100
15	15 1,2,3,4,6,7,8-HpCDF	1.33e4	1.01	NO	1.16	10.000	36.554	36.53	1.001	1.000	97.079	97.1 82-122		97.1
16	16 1,2,3,4,7,8,9-HpCDF	9.55e3	1.05	NO	1.35	10.000	38.328	38.34	1.000	1.000	98.726	98.7 78-138	1.85	98.7
17	17 OCDF	2.11e4	0.92	NO	0.949	10.000	41.258	41.28	1.000	1.001	218.94	109 63 -170	1.85	219
18	18 13C-2,3,7,8-TCDD	9.16e3	0.88	NO	1.26	10.000	26.163	26.07	1.026	1.022	31.439	15.7 20 - 175		
19	19 13C-1,2,3,7,8-PeCDD	1.18e4	0.58	NO	0.921	10.000	30.651	30.61	1.202	1.200	55.474	27.7 21 - 227		
20	20 13C-1,2,3,4,7,8-HxCDD	1.28e4	1.41	NO	0.707	10.000	33.902	33.92	1.014	1.014	80.470	40.2 21 - 193	1.83	
21	21 13C-1,2,3,6,7,8-HxCDD	1.75e4	1.21	NO	0.829	10.000	34.012	34.03	1.017	1.018	94.248	47.125 - 163		
22	22 13C-1,2,3,7,8,9-HxCDD	2.35e4	1.30	NO	0.808	10.000	34.283	34.31	1.025	1.026	129.63	64.8 21 - 193	1.60	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.86e4	1.01	NO	0.662	10.000	37.747	37.79	1.129	1.130	125.19	62.6 26 - 166	1.74	
24	24 13C-OCDD	3.40e4	0.90	NO	0.608	10.000	40.769	41.04	1.219	1.227	248.82		2.97	
25	25 13C-2,3,7,8-TCDF	1.23e4	0.75	NO	1.07	10.000	25.245	25.25	0.990	0.990	30.867	15.4 22-152		
26	26 13C-1,2,3,7,8-PeCDF	1.60e4	1.67	NO	0.826	10.000	29.470	29.44	1.156	1.155	51.973	26.0 21 - 192	1.09	
27	27 13C-2,3,4,7,8-PeCDF	1.37e4	1.67	NO	0.796	10.000	30.370	30.33	1.191	1.189	46.163	23.113 - 328	1.13	
28	28 13C-1,2,3,4,7,8-HxCDF	1.73e4	0.47	NO	1.08	10.000	33.033	33.04	0.988	0.988	71.816	35.819-202	1.64	
29	29 13C-1,2,3,6,7,8-HxCDF	2.19e4	0.53	NO	1.12	10.000	33.167	33.15	0.992	0.991	86.733	43.4 21-159		
30	30 13C-2,3,4,6,7,8-HxCDF	2.39e4	0.51	NO	1.02	10.000	33.738	33.75	1.009	1.010	104.11	52.1 22-176		
31	31 13C-1,2,3,7,8,9-HxCDF	1.67e4	0.45	NO	0.887	10.000	34.638	34.69	1.036	1.037	83.878	41.9 17 - 205	1.99	

Page 2 of 2

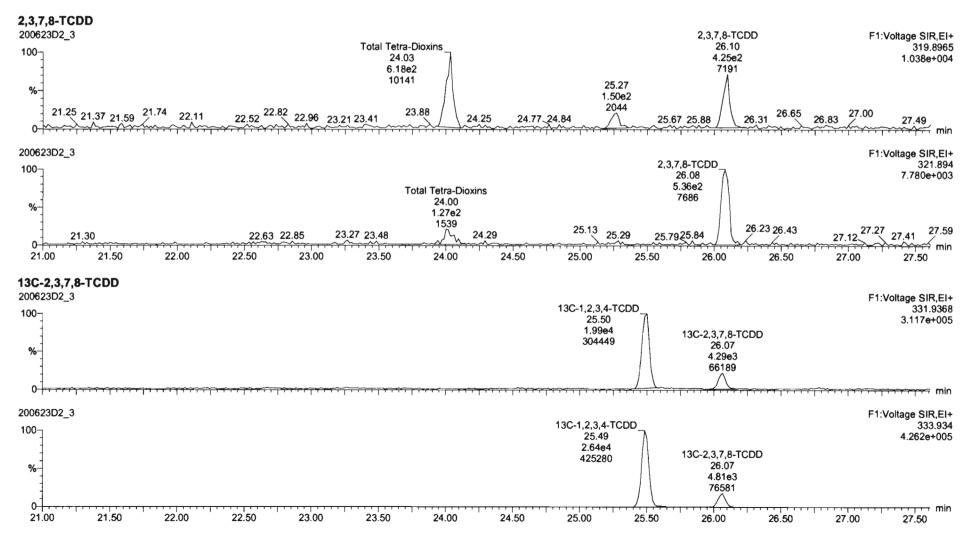
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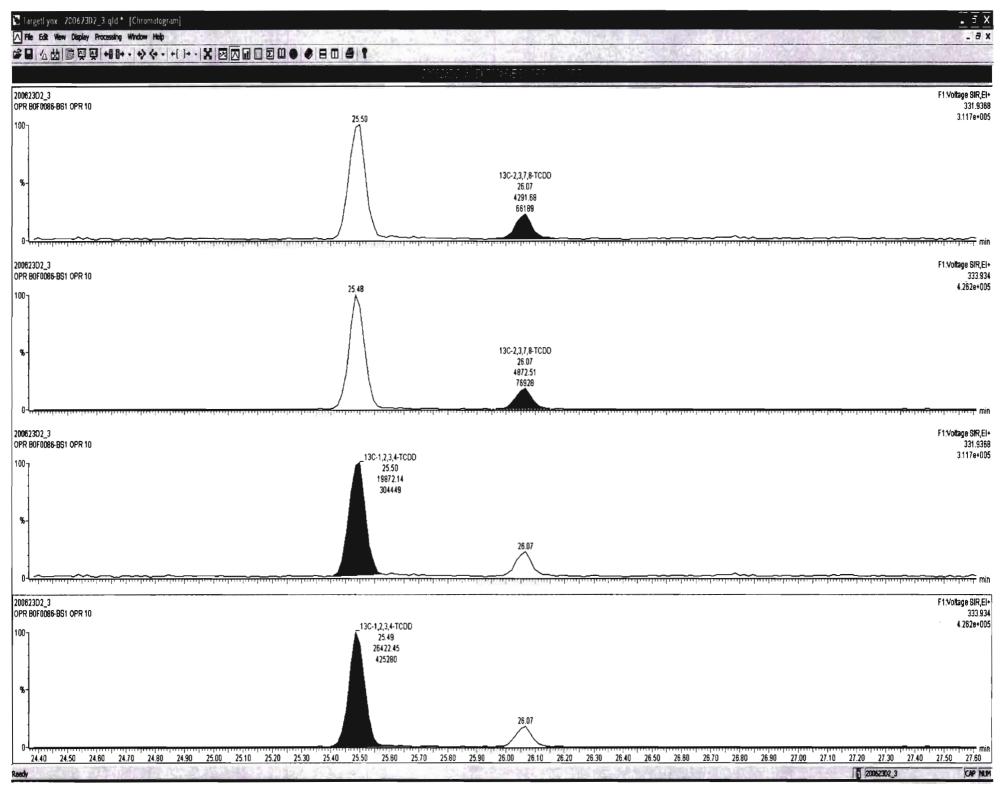
Last Altered: Wednesday, June 24, 2020 11:41:56 Pacific Daylight Time Printed: Wednesday, June 24, 2020 11:43:36 Pacific Daylight Time

IN- Star	# 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	2.37e4	0.44	NO	0.811	10.000	36.343	36.52	1.087	1.092	130.38	65.2 21-158	1.45	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.43e4	0.44	NO	0.598	10.000	38.349	38.33	1.147	1.146	106.70	53.3 20 - 186	1.97	
34	34 13C-OCDF	4.06e4	0.92	NO	0.752	10.000	40.923	41.26	1.224	1.234	240.36	60.113-198	1.51	
35	35 37CI-2,3,7,8-TCDD	4.02e3			1.24	10.000	26.160	26.07	1.026	1.022	13.983	17.5 31-191	0.269	
36	36 13C-1,2,3,4-TCDD	4.63e4	0.75	NO	1.00	10.000	25.480	25.50	1.000	1.000	200.00	100	3.70	
37	37 13C-1,2,3,4-TCDF	7.44e4	0.78	NO	1.00	10.000	24.020	24.03	1.000	1.000	200.00	100	2.13	
38	38 13C-1,2,3,4,6,9-HxCDF	4.49e4	0.53	NO	1.00	10.000	33.530	33.43	1.000	1.000	200.00	100	1.77	

Quantify San Vista Analytica	· · ·	Page 1 of 13
Dataset:	U:\VG7.PRO\Results\200623D2\200623D2_3.qld	
Last Altered: Printed:	Wednesday, June 24, 2020 10:38:15 Pacific Daylight Time Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time	

#### Method: C:\MassLynx\Default.pro\Methdb\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

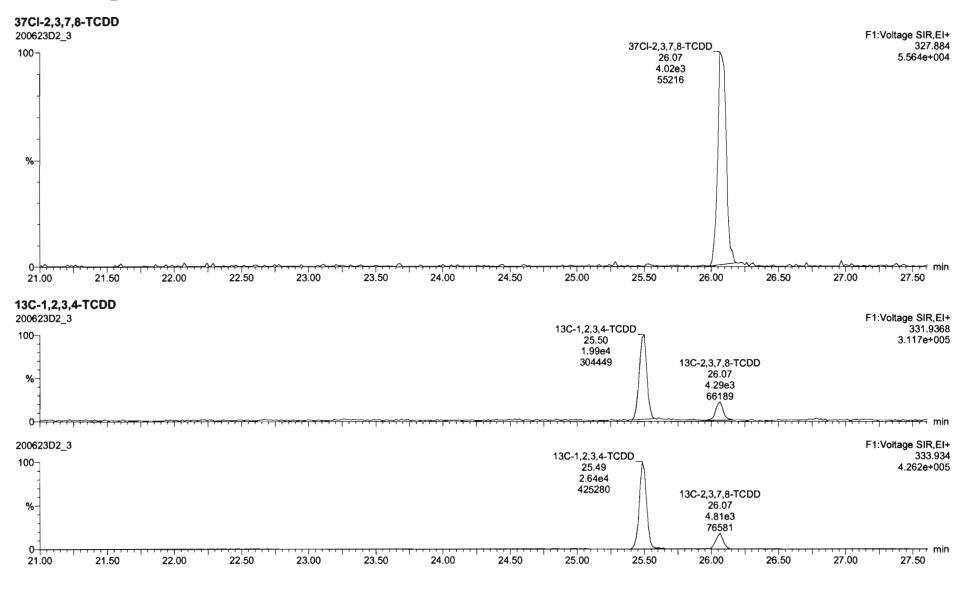




### Quantify Sample Report MassLynx 4.1

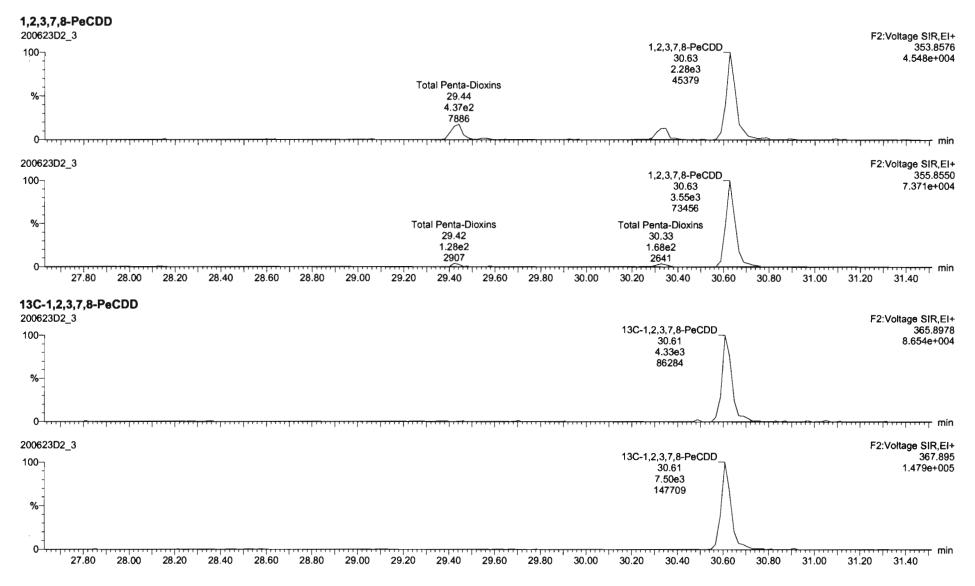
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Printed:	Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time



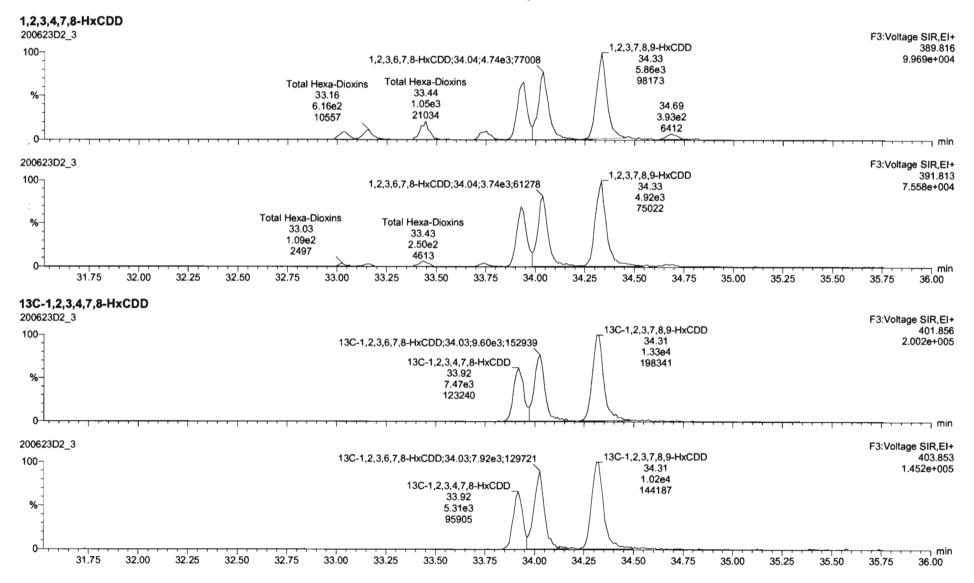
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Last Altered:	Wednesday, June 24, 2020 10:38:15 Pacific Daylight Time
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Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_3.qld

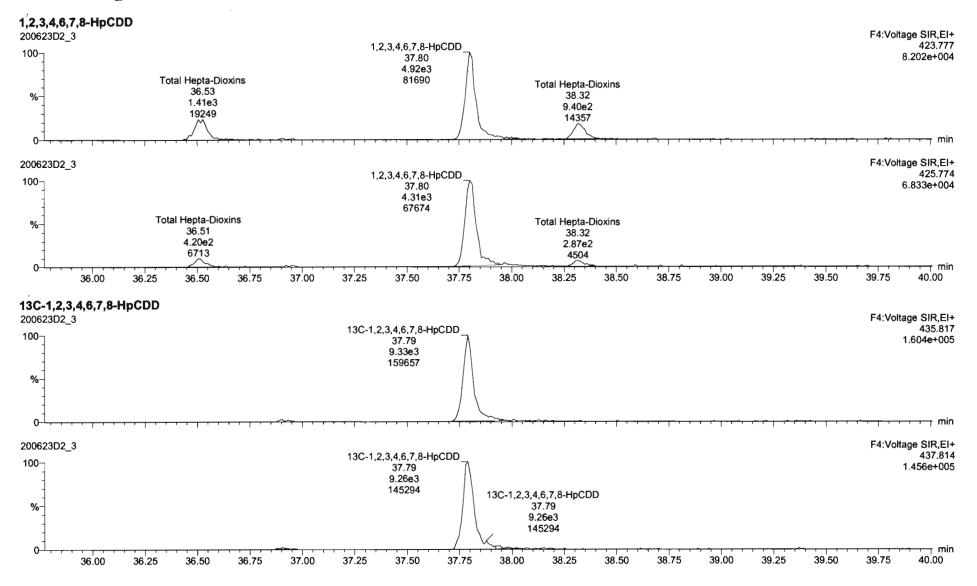
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### Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory MassLynx 4.1

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_3.qld

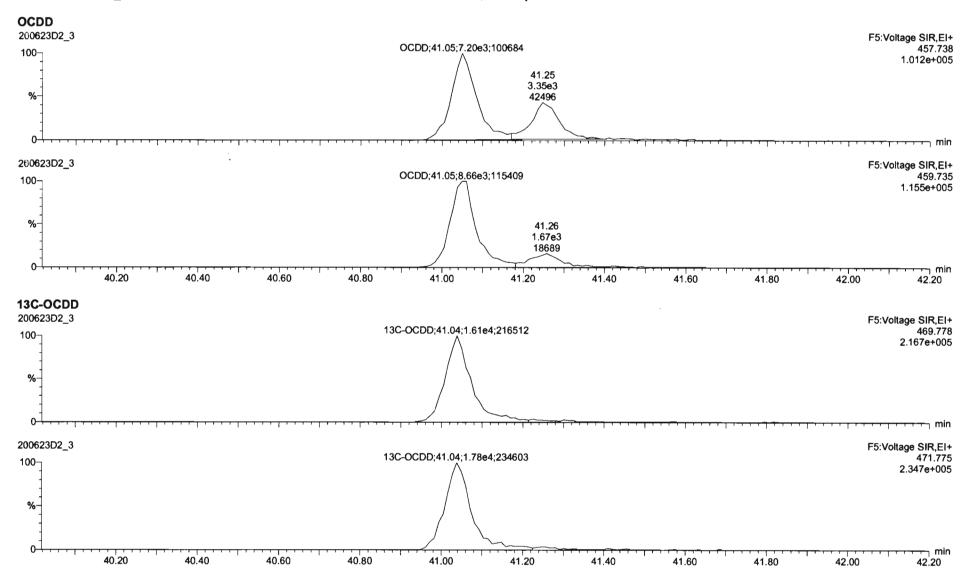
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Printed:	Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time



Quantify Sample Report	MassLynx 4.1	
Vista Analytical Laboratory		

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_3.qld

Last Altered:	Wednesday, June 24, 2020 10:38:15 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time



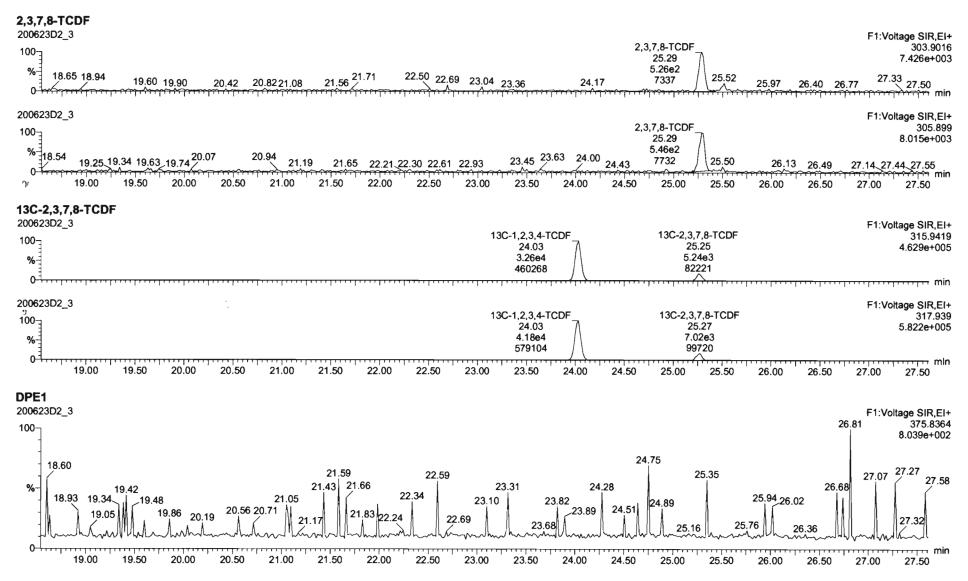
#### Quantify Sample Report MassLynx 4.1

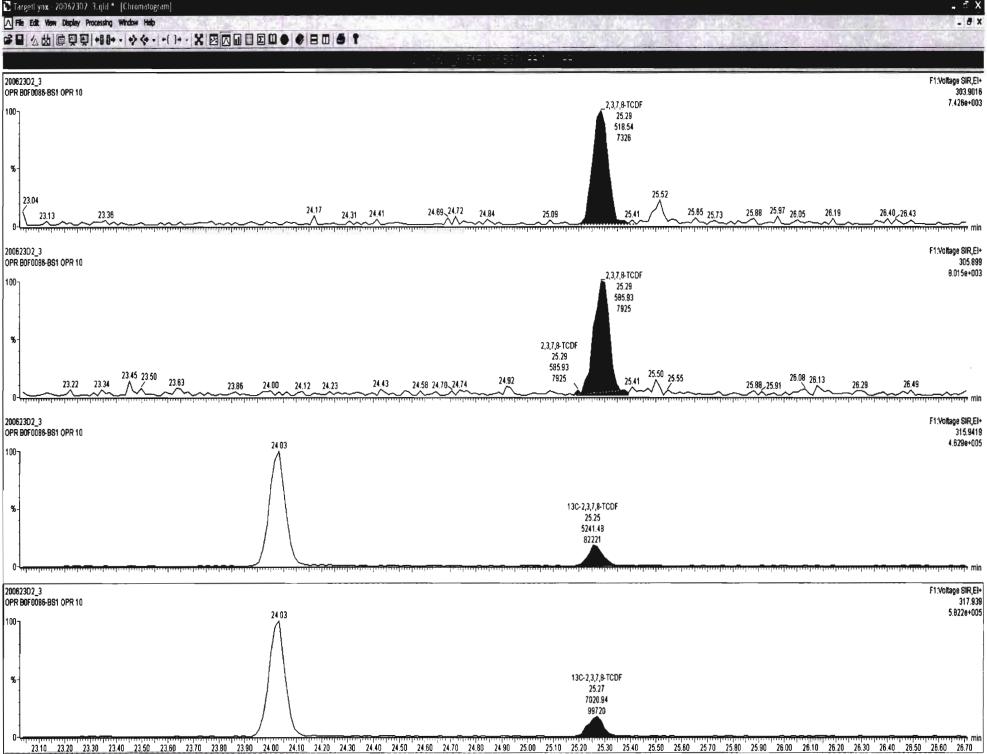
Vista Analytical Laboratory

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Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_3.qld

Last Altered:Wednesday, June 24, 2020 10:38:15 Pacific Daylight TimePrinted:Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time





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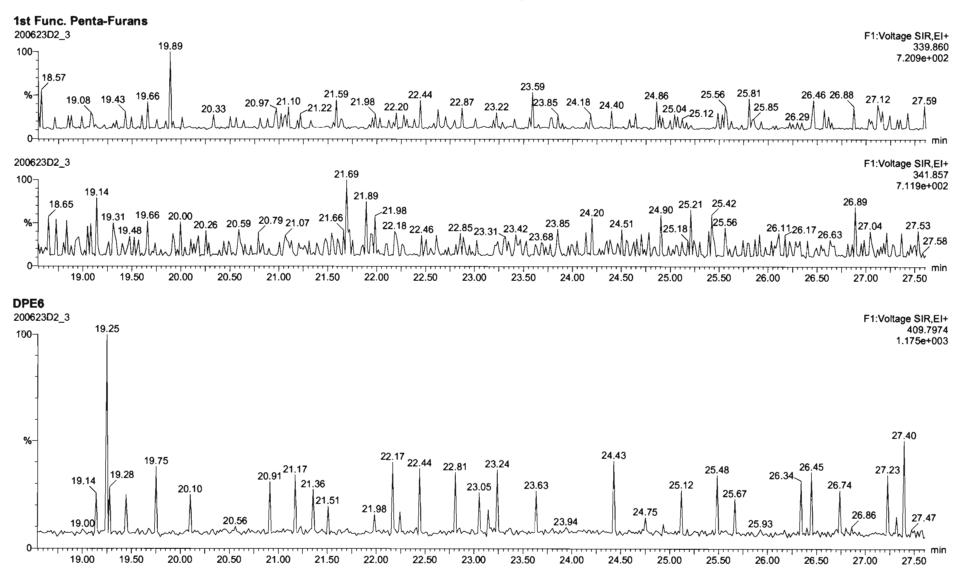
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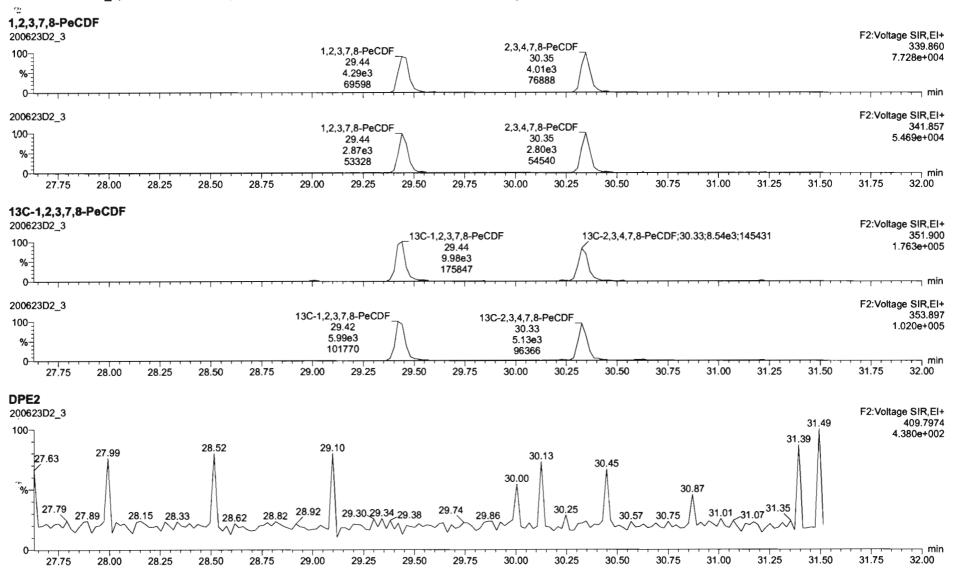
Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_3.qld

Last Altered:	Wednesday, June 24, 2020 10:38:15 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time



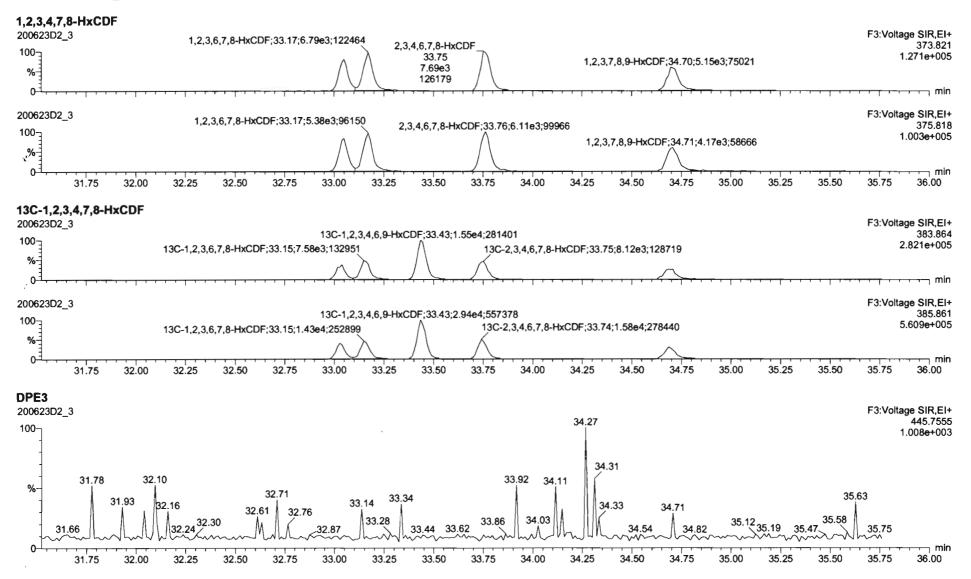
Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_3.qld

Last Altered:	Wednesday, June 24, 2020 10:38:15 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time



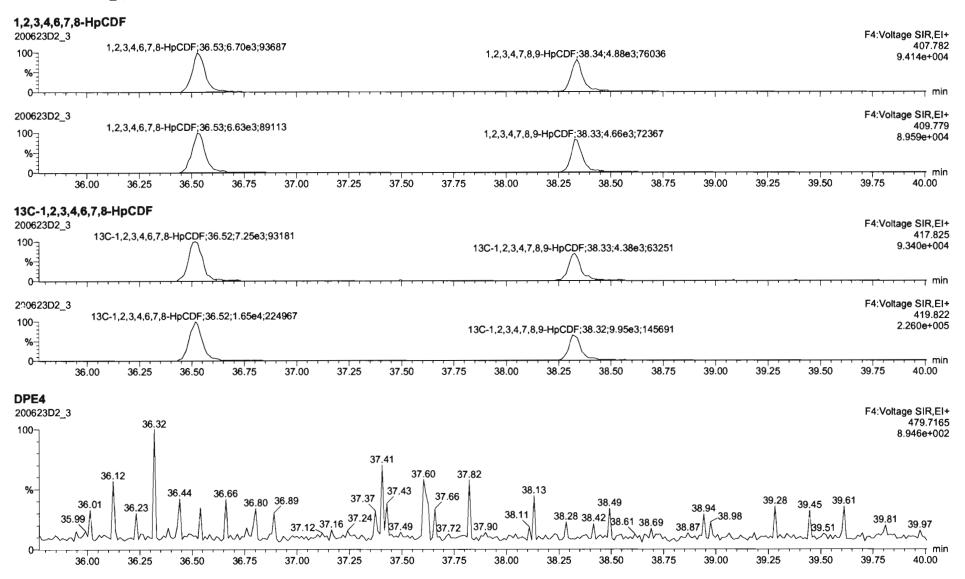
Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_3.qld

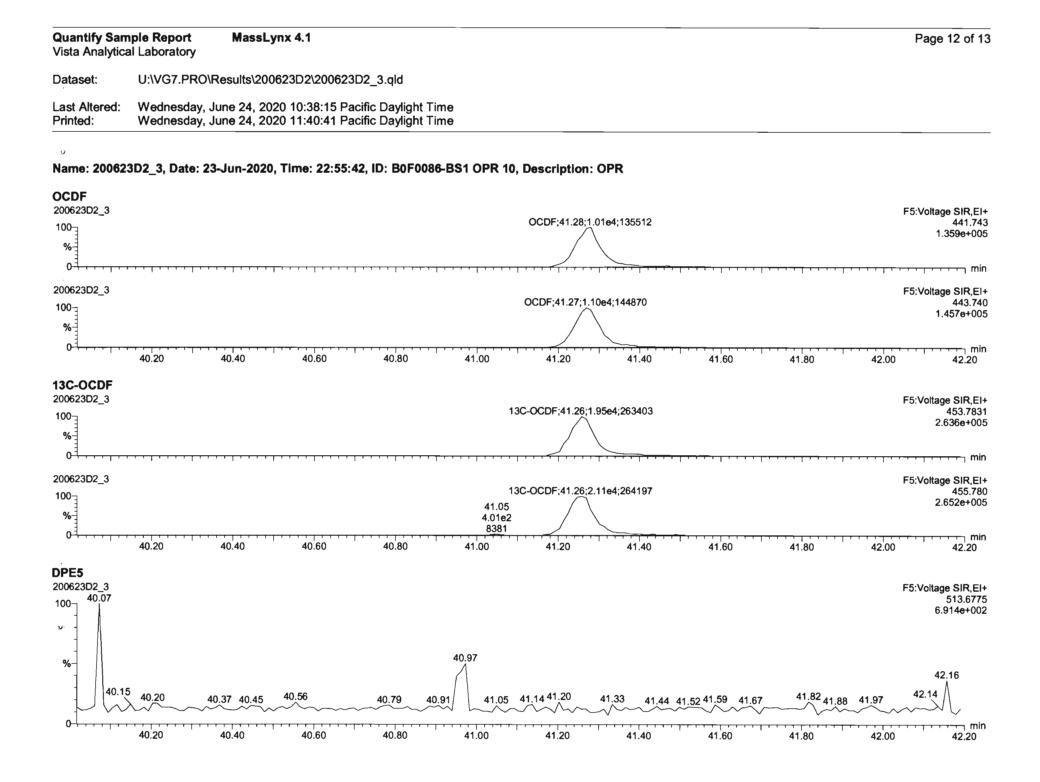
Last Altered:Wednesday, June 24, 2020 10:38:15 Pacific Daylight TimePrinted:Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time



Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_3.qld

Last Altered:	Wednesday, June 24, 2020 10:38:15 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time

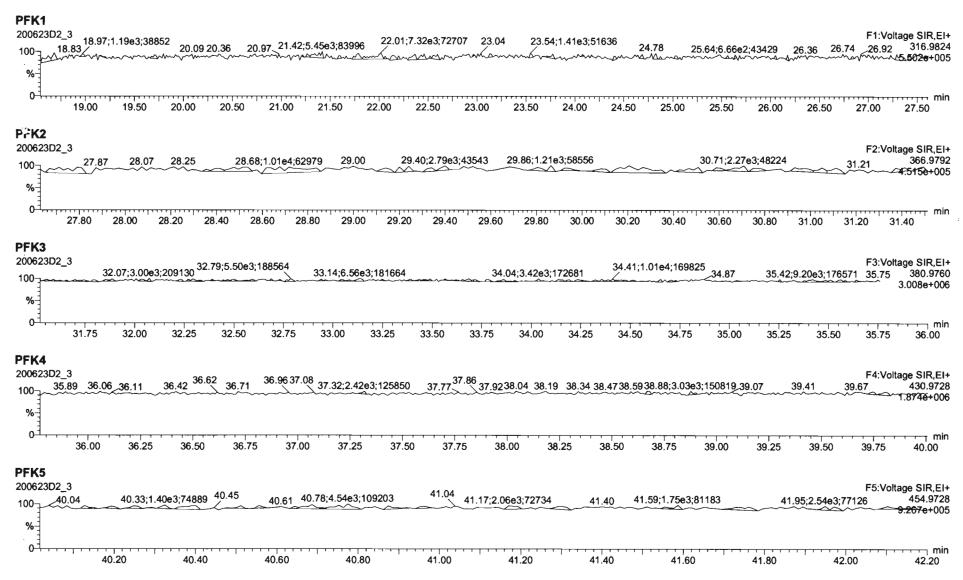




Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_3.qld

Last Altered:	Wednesday, June 24, 2020 10:38:15 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 11:40:41 Pacific Daylight Time

#### Name: 200623D2\_3, Date: 23-Jun-2020, Time: 22:55:42, ID: B0F0086-BS1 OPR 10, Description: OPR



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Quantify San Vista Analytica	n <b>ple Summary Report</b> al Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\200	)707R2\200707R2-14.qld	
Last Altered: Printed:		9:36:29 AM Pacific Daylight Time 9:44:07 AM Pacific Daylight Time	

#### Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613\_rrt-7-3-20.mdb 03 Jul 2020 12:13:21 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2\_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

in the Surface		Resp	RA	n/y	RRF	www.		A.A. A.		W. Sandar				
· · · · · · · · · · · · · · · · · · ·	1 2,3,7,8-TCDD			NO	0.888	10.024 -	26.501		1.001				0.260	
14. M. M. M. M.	2 1,2,3,7,8-PeCDD			NO	0.908	10.024	31.488		1.001				0.169	
	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.024	34.867		1.000				0.235	
and a start water and the start of the start	4 1,2,3,6,7,8-HxCDD	2.64e3	1.18	NO	0.892	10.024	34.964	34.97	1.000	1.000	1.7219		0.206	1.72
	5 1,2,3,7,8,9-HxCDD	9.06e2	1.36	NO	0.887	10.024	35.286	35.26	1.001	1.000	0.48473		0.186	0.485
	6 1,2,3,4,6,7,8-HpCDD	2.01e5	1.01	NO	0.864	10.024	38.821	38.82	1.000	1.000	143.18		0.585	143
	7 OCDD	1.15e6	0.86	NO	0.914	10.024	41.823	41.83	1.000	1.000	863.30		0.610	863
	8 2,3,7,8-TCDF	4.45e2	1.09	YES	0.751	10.024	25.602	25.62	1.001	1.002	0.64677		0.281	0.547
1	9 1,2,3,7,8-PeCDF	7.12e2	1.50	NO	0.893	10.024	30.205	30.18	1.001	1.000	0.60560		0.142	0.606
	10 2,3,4,7,8-PeCDF	2.94e2	1.41	NO	0.935	10.024	31.180	31.18	1.001	1.000	0.27576		0.146	0.276
	11 1,2,3,4,7,8-HxCDF	1.22e3	1.16	NO	0.884	10.024	33.973	33.99	1.000	1.001	1.0131		0.0927	1.01
in the set of the	12 1,2,3,6,7,8-HxCDF	3.89e2	1.31	NO	0.889	10.024	34.111	34.13	1.000	1.001	0.24717		0.0763	0.247
	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.024	34.708		1.001				0.0715	
	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.024	35.634		1.001				0.117	
i i an i	15 1,2,3,4,6,7,8-HpCDF	4.77e3	1.01	NO	0.873	10.024	37.429	37.41	1.001	1.001	3.5562		0.152	3.56
	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.024	39.352		1.000				0.194	
	17 OCDF	2.34e4	0.83	NO	0.806	10.024	42.004	42.01	1.000	1.000	19.842		0.161	19.8
	18 13C-2,3,7,8-TCDD	1.79e5	0.77	NO	1.16	10.024	26.463	26.47	1.025	1.026	37.931	19.0	0.146	
	19 13C-1,2,3,7,8-PeCDD	2.43e5	0.62	NO	0.849	10.024	31.475	31.47	1.219	1.219	70.065	35.1	0.186	
1	20 13C-1,2,3,4,7,8-HxCDD	2.39e5	1.27	NO	0.77 <del>9</del>	10.024	34.841	34.86	1.014	1.014	100.81	50.5	0.332	
	21 13C-1,2,3,6,7,8-HxCDD	3.43e5	1.30	NO	1.02	10.024	34.941	34.96	1.017	1.017	110.53	55.4	0.255	
	22 13C-1,2,3,7,8,9-HxCDD	4.21e5	1.25	NO	0.903	10.024	35.250	35.25	1.026	1.026	152.85	76.6	0.287	
and the first	23 13C-1,2,3,4,6,7,8-HpCDD	3.24e5	1.03	NO	0.689	10.024	38.797	38.81	1.129	1.129	154.41	77.4	0.503	
2 8 8 6 7 480) 	24 13C-OCDD	5.80e5	0.90	NO	0.652	10.024	41.804	41.82	1.216	1.217	291.55	73.1	0.381	
	25 13C-2,3,7,8-TCDF	1.83e5	0.76	NO	1.06	10.024	25.570	25.57	0.991	0.991	31.900	16.0	0.197	
	26 13C-1,2,3,7,8-PeCDF	2.63e5	1.58	NO	0.838	10.024	30.193	30.18	1.170	1.169	57.930	29.0	0.379	
۲ پر ۲۶۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰	27 13C-2,3,4,7,8-PeCDF	2.28e5	1.70	NO	0.817	10.024	31.166	31.16	1.207	1.207	51.469	25.8	0.389	
and the stand	28 13C-1,2,3,4,7,8-HxCDF	2.72e5	0.49	NO	1.01	10.024	33.975	33.97	0.989	0.989	88.397	44.3	0.516	
	29 13C-1,2,3,6,7,8-HxCDF	3.53e5	0.49	NO	1.17	10.024	34.092	34.10	0.992	0.992	99.315	49.8	0.446	
	30 13C-2,3,4,6,7,8-HxCDF	3.61e5	0.51	NO	1.02	10.024	34.669	34.69	1.009	1.009	115.93	58.1	0.509	
	31 13C-1,2,3,7,8,9-HxCDF	2.90e5	0.47	NO	0.860	10.024	35.601	35.61	1.036	1.036	110.71	55.5	0.605	

GPB 07/08/2020

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-14.qld

Last Altered:	Wednesday, July 08, 2020 9:36:29 AM Pacific Daylight Time
Printed:	Wednesday, July 08, 2020 9:44:07 AM Pacific Daylight Time

Name: 200707R2\_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

the Land of the		Hesp	RA	- <b>n/y</b> 121	RRF	WIND	PrediR	pa contra no Receber			Alex of St.	Level Buch		1. Section of the sec
an a	32 13C-1,2,3,4,6,7,8-HpCDF	3.07e5	0.43	NO	0.774	10.024	37.384	37.39	1.088	1.088	129.86	65.1	0.373	
	33 13C-1,2,3,4,7,8,9-HpCDF	1.88e5	0.41	NO	0.521	10.024	39.357	39.35	1.145	1.145	118.55	59.4	0.554	
	34 13C-OCDF	5.84e5	0.88	NO	0.746	10.024	41.993	42.00	1.222	1.222	256.94	64.4	0.316	
	35 37CI-2,3,7,8-TCDD	6.36e4			1.04	10.024	26.481	26.50	1.026	1.027	15.013	18.8	0.0461	
	36 13C-1,2,3,4-TCDD	8.16e5	0.78	NO	1.00	10.024	25.740	25.81	1.000	1.000	199.53	100	0.169	
A	37 13C-1,2,3,4-TCDF	1.0 <b>8e</b> 6	0.75	NO	1.00	10.024	24.030	24.10	1.000	1.000	199.53	100	0.209	
	38 13C-1,2,3,4,6,9-HxCDF	6.0 <b>8e</b> 5	0.50	NO	1.00	10.024	34.290	34.37	1.000	1.000	199.53	100	0.520	
1 T	39 Total Tetra-Dioxins				0.888	10.024	24.620		0.000				0.147	
Halastan	40 Total Penta-Dioxins				0.908	10.024	29.960		0.000		0.45876		0.0708	0.635
	41 Total Hexa-Dioxins				0.892	10.024	33.635		0.000		26.677		0.213	26.7
ા સુને સુરુષ	42 Total Hepta-Dioxins				0.864	10.024	38.800		0.000		325.63		0.585	326
and the state of the second	43 Total Tetra-Furans				0.751	10.024	23.610		0.000		0.61967		0.261	1.17
in here the	44 1st Func. Penta-Furans				0.893	10.024	27.040		0.000		0.63853		0.105	0.639
	45 Total Penta-Furans				0.893	10.024	29.275		0.000		1.4869		0.147	1.49
the state	46 Total Hexa-Furans				0.934	10.024	33.555		0.000		3.6554		0.0839	3.66
	47 Total Hepta-Furans				0.873	10.024	37.835		0.000		17.782		0.180	17.8

#### Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-14.qld

Last Altered:Wednesday, July 08, 2020 9:36:29 AM Pacific Daylight TimePrinted:Wednesday, July 08, 2020 9:44:07 AM Pacific Daylight Time

#### Method: C:\MassLynx\DEFAULT.PRO\MethDB\1613\_rrt-7-3-20.mdb 03 Jul 2020 12:13:21 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2\_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

#### Tetra-Dioxins

RT mit Height m2 Height m1 Rosp m2 Resp RA market in the second 
#### Penta-Dioxins

Total Penta-Dioxins Total Penta-Dioxins	<b>••••</b> •	mi Height	m2 Height	mf Resp	m2 Resp				A BIRCH AND		
Total Penta-Dioxins	29.25	3.02 <b>9e</b> 3	3.530e3	1.913e2	3.164e2	0.60	NO	5.077e2	0.45876	0.45876	0.0708
Total Penta-Dioxins	29.73	1.481e3	3.158e3	1.158e2	1.194e2	0.97	YES	0.000e0	0.00000	0.17582	0.0708

#### Hexa-Dioxins

20	1. House	handle officer and the second	C. C. Stars	this Height	mzHeighl	mi Roop					and the parts		In a string
	Sec. Sec.	Total Hexa-Dioxins	33.35	2.023e5	1.693e5	1.065e4	8.451e3	1.26	NO	1.911e4	12.781	12.781	0.213
		Total Hexa-Dioxins	33.91	1.529e4	1.317e4	8.540e2	6.790e2	1.26	NO	1.533e3	1.0256	1.0256	0.213
		Total Hexa-Dioxins	34.19	1.038e5	8.360e4	7.532e3	5.896e3	1.28	NO	1.343e4	8.9826	8.9826	0.213
		Total Hexa-Dioxins	34.28	1.518e4	1.686e4	8.338e2	7.350e2	1.13	NO	1.569e3	1.0495	1.0495	0.213
E.A.		1,2,3,6,7,8-HxCDD	34.97	2.039e4	2.123e4	1.427e3	1.211e3	1.18	NO	2.639e3	1.7219	1.7219	0.206
2		Total Hexa-Dioxins	35.17	1.415e4	9.584e3	4.950e2	4.490e2	1.10	NO	9.440e2	0.63149	0.63149	0.213
6	1. 3. AL	1,2,3,7,8,9-HxCDD	35.26	7.881e3	8.513e3	5.218e2	3.847e2	1.36	NO	9.065e2	0.48473	0.48473	0.186

**Hepta-Dioxins** 

Total Hepta-Dioxins 1,2,3,4,6,7,8-HpCDD	A RT	mt Height	m2+leight	. nat Resp	m2 Resp	ARA .		CONTRACTOR STREET			and August
Total Hepta-Dioxins	37.81	1.74 <del>9e</del> 6	1.773e6	1.277e5	1.286e5			2.563e5	182.45	182.45	0.585
1,2,3,4,6,7,8-HpCDD	38.82	1.484e6	1.441e6	1.012e5	9.993e4	1.01	NO	2.011e5	143.18	143.18	0.585

#### Tetra-Furans

Total Tetra-Furans 2,3,7,8-TCDF	ORT -	m1 Height.	m2 Height	mt Resp	m2 Resp	RA	NY.				Sector Anone
Total Tetra-Furans	24.64	2.270e3	2.455e3	1.952e2	2.316e2	0.84	NO	4.267e2	0.61967	0.61967	0.261
2,3,7,8-TCDF	25.62	2.990e3	2.867e3	2.327e2	2.127e2	1.09	YES	4.454e2	0.00000	0.54676	0.261

#### Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200707R2\200707R2-14.qld

Last Altered: Wednesday, July 08, 2020 9:36:29 AM Pacific Daylight Time Wednesday, July 08, 2020 9:44:07 AM Pacific Daylight Time

Name: 200707R2\_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522

#### Penta-Furans function 1

Ist Func. Penta-Furans	( A RECO	mit Height	m2 Height	+m1 Resp.	m2 Reed						
Ist Func. Penta-Furans	27.59	5.910e3	4.336e3	4.355e2	2.650e2	1.64	NO	7.005e2	0.63853	0.63853	0.105

#### Penta-Furans

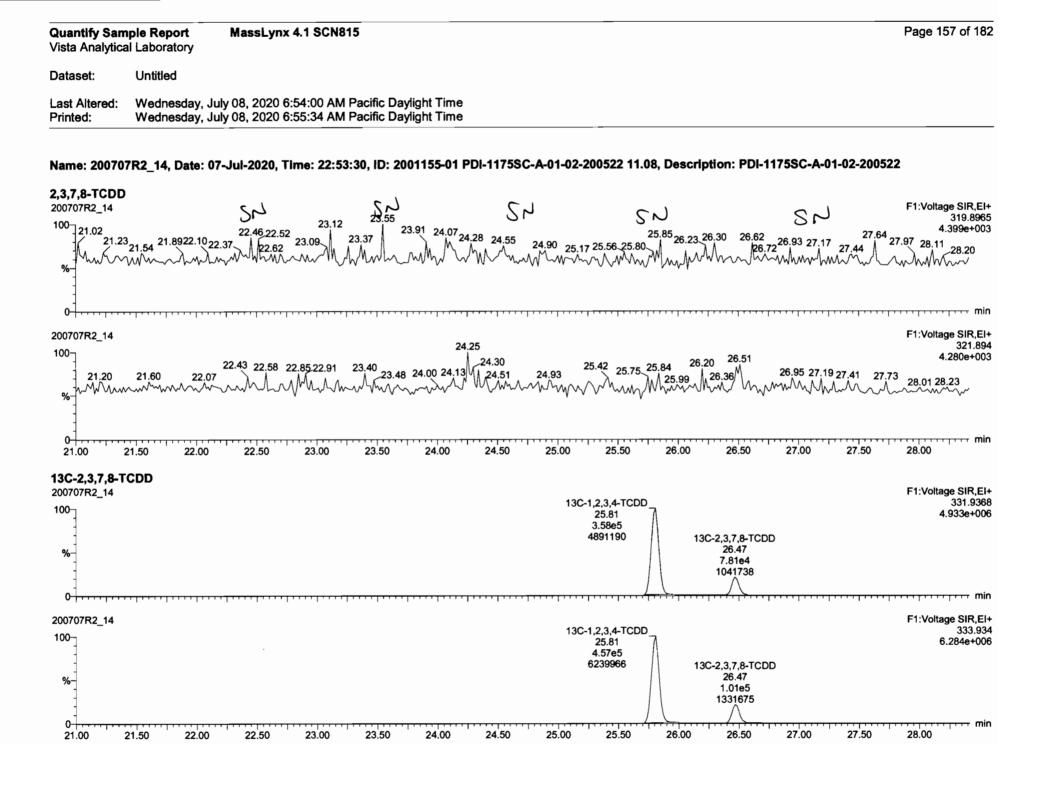
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA,	NY C	nosp.	Conder:	EMPC	
Total Penta-Furans	29.21	4.394e3	2.559e3	2.604e2		1.34	NO	4.546e2	0.41434	0.41434	0.147
1,2,3,7,8-PeCDF	30.18	6.761e3	5.580e3	4.270e2	2.853e2	1.50	NO	7.122e2	0.60560	0.60560	0.142
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF	31.18	5.170e3	2.497e3	1.720e2	1.221e2	1.41	NO	2.941e2	0.27576	0.27576	0.146
Total Penta-Furans	31.21	3.330e3	2.091e3	1.329e2	7.683e1	1.73	NO	2.098e2	0.19121	0.19121	0.147

#### **Hexa-Furans**

	AND SHALL INTER			n'i Height	m2 Height	-M Rep	m2Resp		Alex.	and the second	and a stationer	With the state	The fight
É.,		Total Hexa-Furans	32.81	3.251e3	2.006e3	1.342e2	1.071e2	1.25	NO	2.413e2	0.16155	0.16155	0.0839
1. 1.		Total Hexa-Furans	32.98	1.088e4	8.479e3	5.617e2	3.94 <del>4e</del> 2	1.42	NO	9.561e2	0.64007	0.64007	0.0839
		Total Hexa-Furans	33.53	2.445e4	2.264e4	1.245e3	1.135e3	1.10	NO	2.380e3	1.5935	1.5935	0.0839
		1,2,3,4,7,8-HxCDF	33.99	1.092e4	1.01 <b>4e</b> 4	6.548e2	5.648e2	1.16	NO	1.220e3	1.0131	1.0131	0.0927
	S. 1994	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF	34.13	3.548e3	3.349e3	2.209e2	1.684e2	1.31	NO	3.893e2	0.24717	0.24717	0.0763

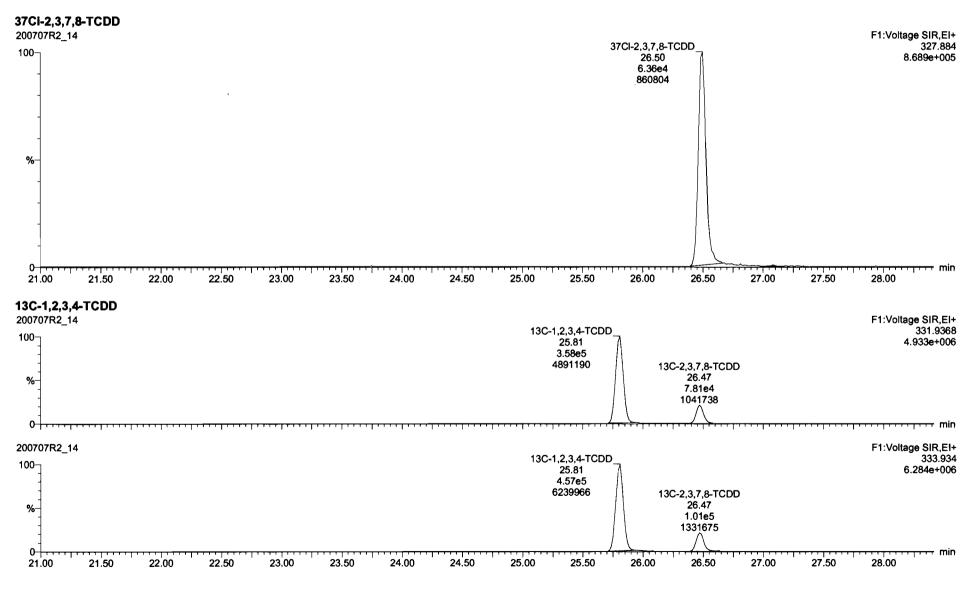
#### Hepta-Furans

1,2,3,4,6,7,8-HpCDF Total Hepta-Furans		m12Helght	m2 Height			192	- 10 M	alan si sa di di sa	Sec. Sec.		1
1,2,3,4,6,7,8-HpCDF	37.41	3.608e4	3.320e4	2.398e3	2.376e3	1.01	NO	4.774e3	3.5562	3.5562	0.152
Total Hepta-Furans	38.02	1.061e5	1.183e5	7.616e3	7.795e3	0.98	NO	1.541e4	14.225	14.225	0.180

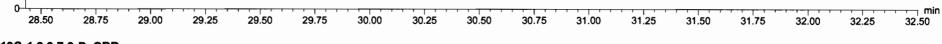


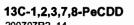
<b>Quantify San</b> Vista Analytica	• •	Page 158 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, Juły 08, 2020 6:54:00 AM Pacific Daylight Time Wednesday, July 08, 2020 6:55:34 AM Pacific Daylight Time	

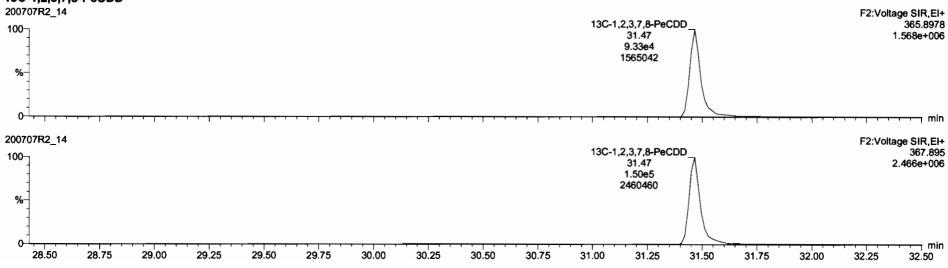
#### Name: 200707R2\_14, Date: 07-Jul-2020, Time: 22:53:30, ID: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-200522



<b>Quantify San</b> Vista Analytica		MassLynx 4.1 SCN815	Page 159 of 182
Dataset:	Untitled		
Last Altered: Printed:		Ily 08, 2020 6:54:00 AM Pacific Daylight Time Ily 08, 2020 6:55:34 AM Pacific Daylight Time	
		7-Jul-2020, Time: 22:53:30, iD: 2001155-01 PDI-1175SC-A-01-02-200522 11.08, Description: PDI-1175SC-A-01-02-2	00522
<b>1,2,3,7,8-PeC</b> 200707R2_14		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<sup>6</sup> 32.12 32.27 32.43 32.46
0	29.04 55 28.78 28.93	$\begin{array}{c} 29.2229.28 \\ 4 \\ 29.50 \\ 29.50 \\ 29.53 \\ 29.85_{29.97} \\ 30.17 \\ 29.85_{29.97} \\ 30.17 \\ 30.21 \\ 30.26 \\ 30.21 \\ 30.26 \\ 30.27 \\ 30.70 \\ 30.76 \\ 30.70 \\ 30.76 \\ 30.90 \\ 31.08 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.47 \\ 31.51 \\ 31.56 \\ 31.88 \\ 31.47 \\ 31.51 \\ 31.47 \\ 31.$	F2:Voltage SIR,EI+ 355.8550 5.794e+003 32.15 32.31.32.34



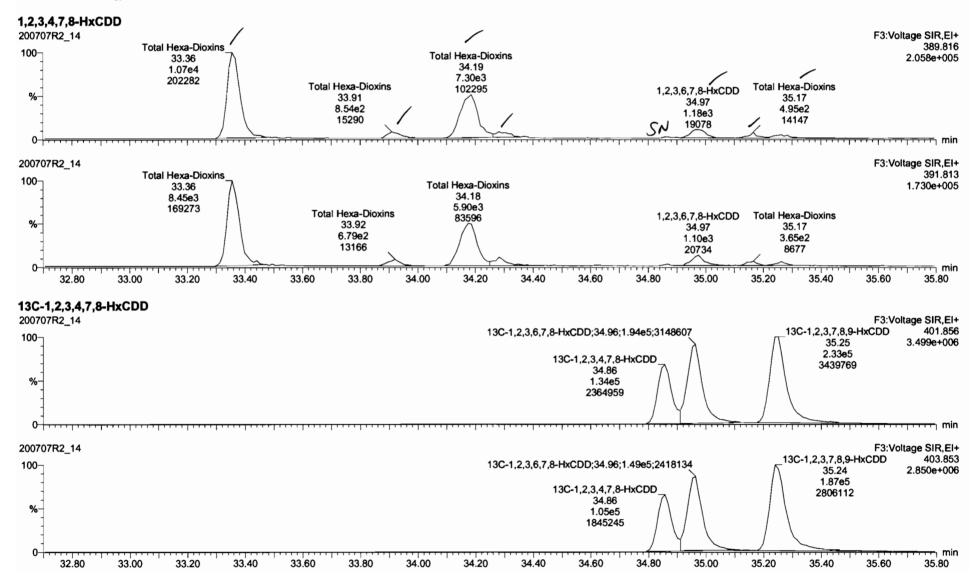


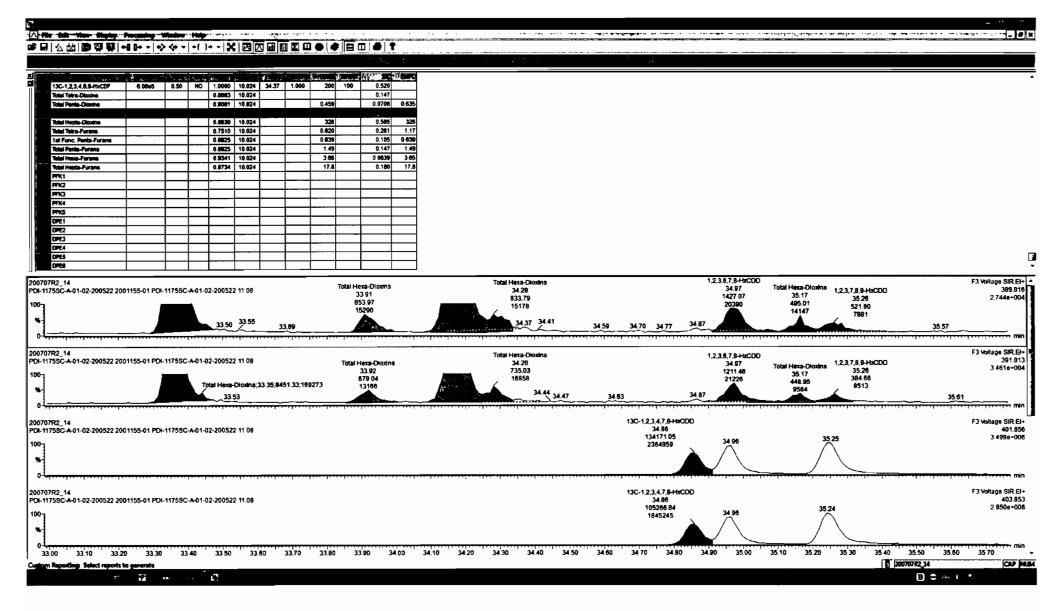


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	13C-1.2.3.4.6.9-HxCDF	6.0845	0.50	NO	1,0000	10.024	34.37	1.000					
Non-thing       100							-						
Numerican         Numerican <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>0.459</td><td></td><td>0.635</td><th></th><td></td></t<>								-	0.459		0.635		
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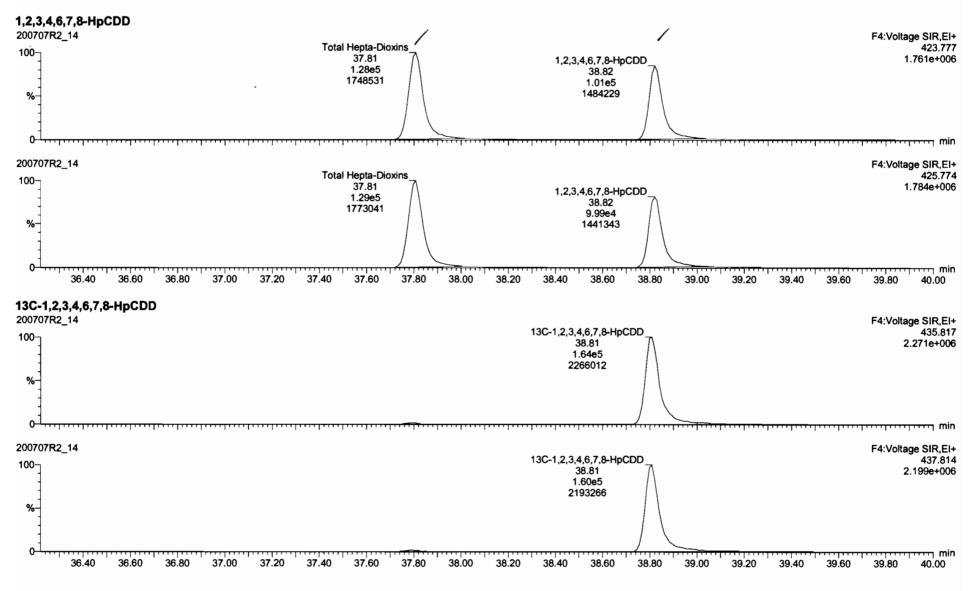
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Quantify Sam Vista Analytica		Page 161 of 182
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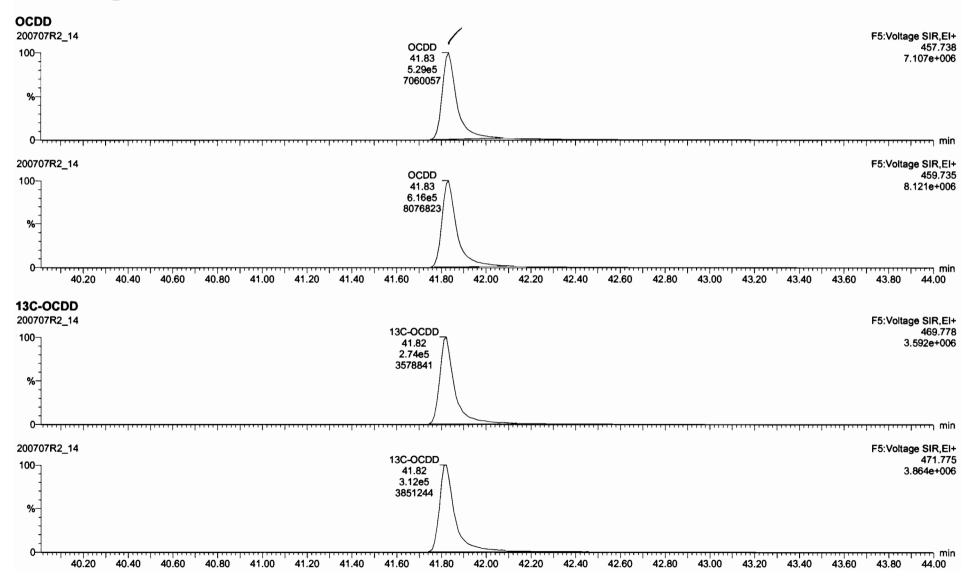
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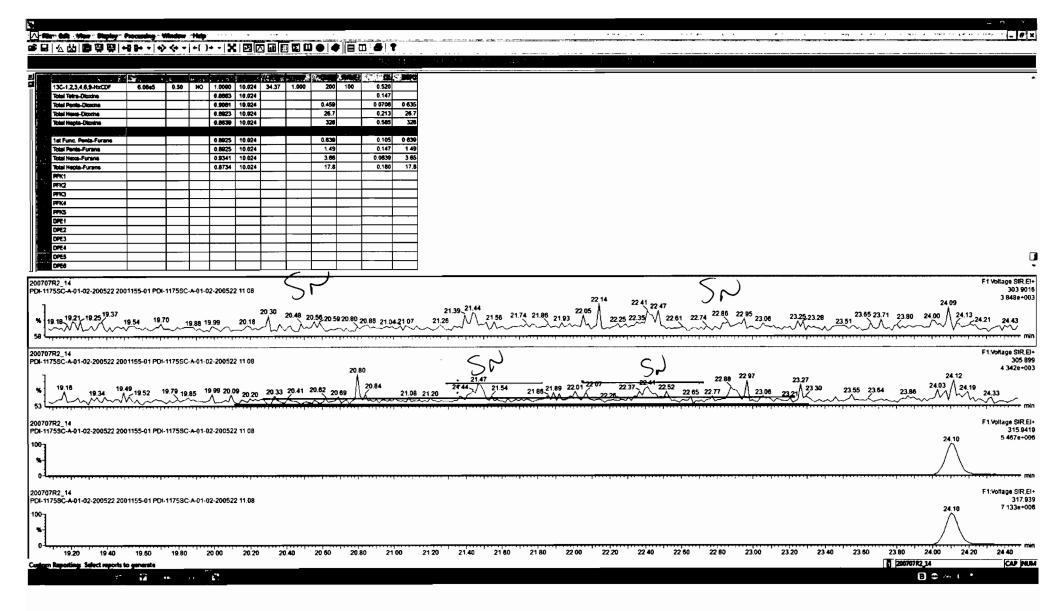
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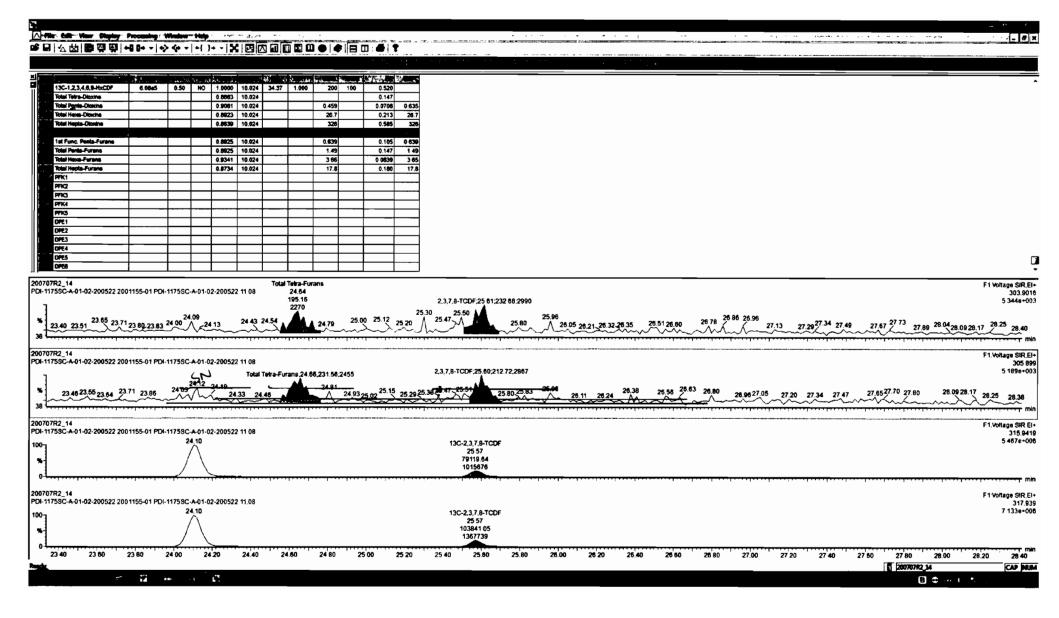


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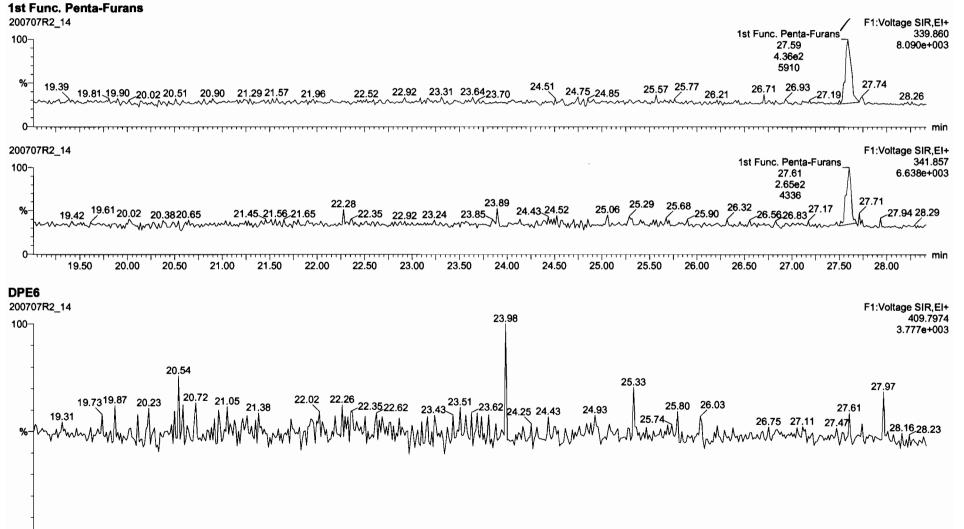
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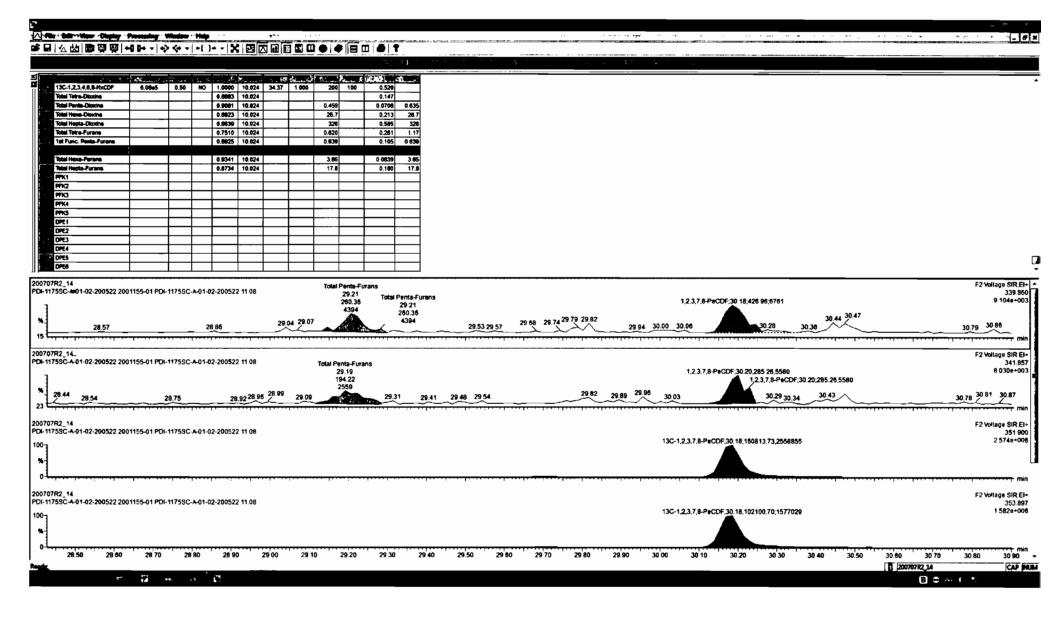


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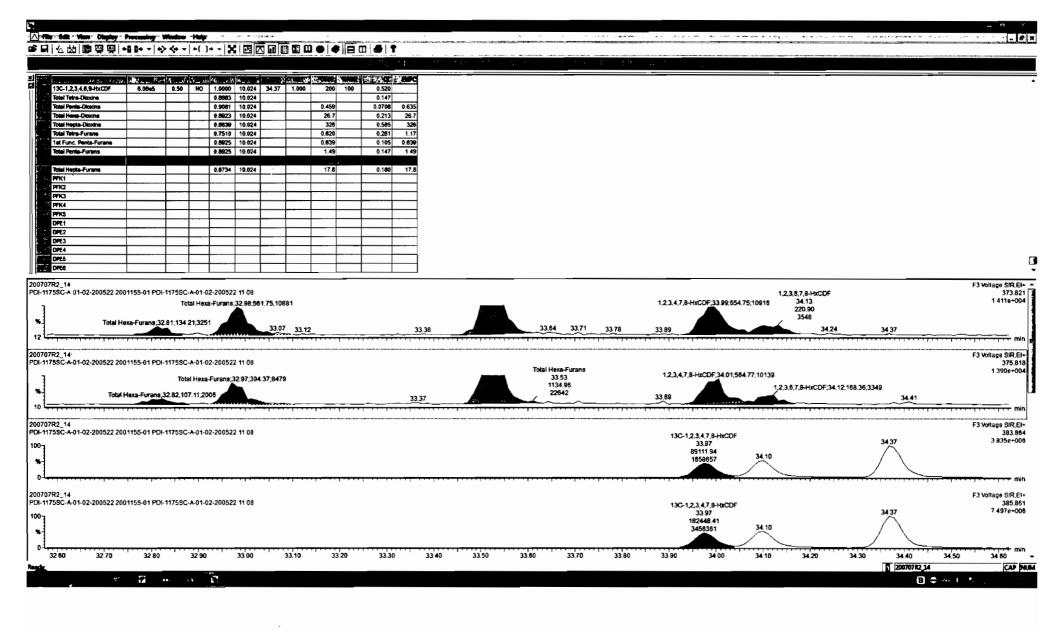
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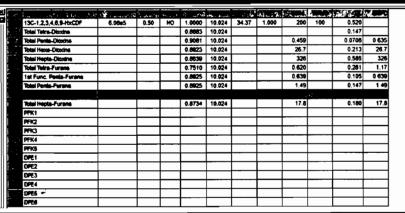


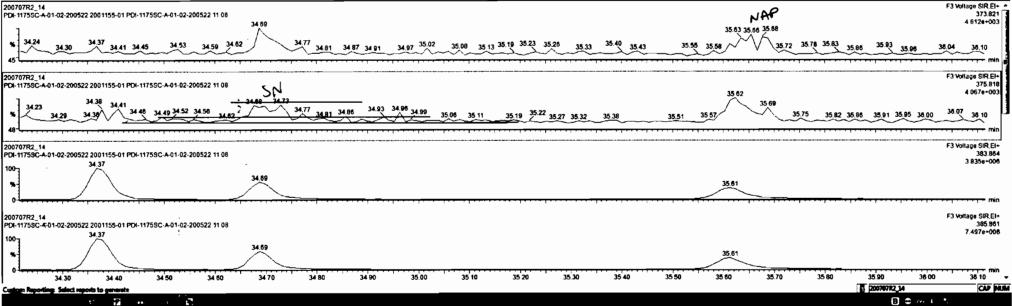
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9 30.79 	30.88	30 75SC-A- 730	92 01-02-200 30.95 92	522 11 0	.01	31.04	2,3,4,7,8-1	PoCDF	31.18,1		Total Penta	Furans,31 2'					31.66		· · · · · · ·	· · · · · · · · · · · · · · · · · · ·		1 31 94	3	203	<u></u>	339 7 5659- 32 17 F2 Voltage SIR 341 4 872e- 3221 F2 Voltage SIR 52 Voltage SIR 351.
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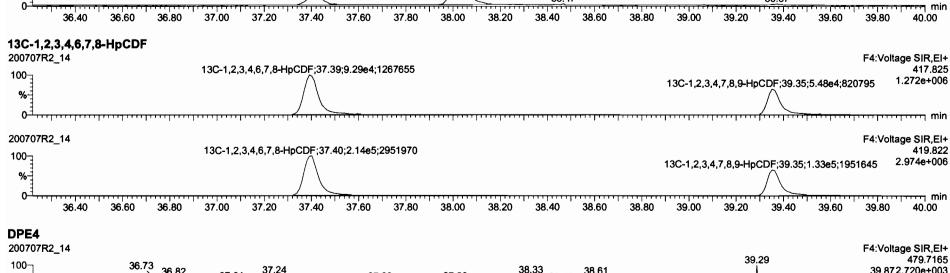
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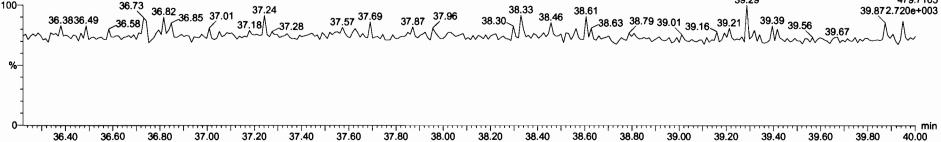
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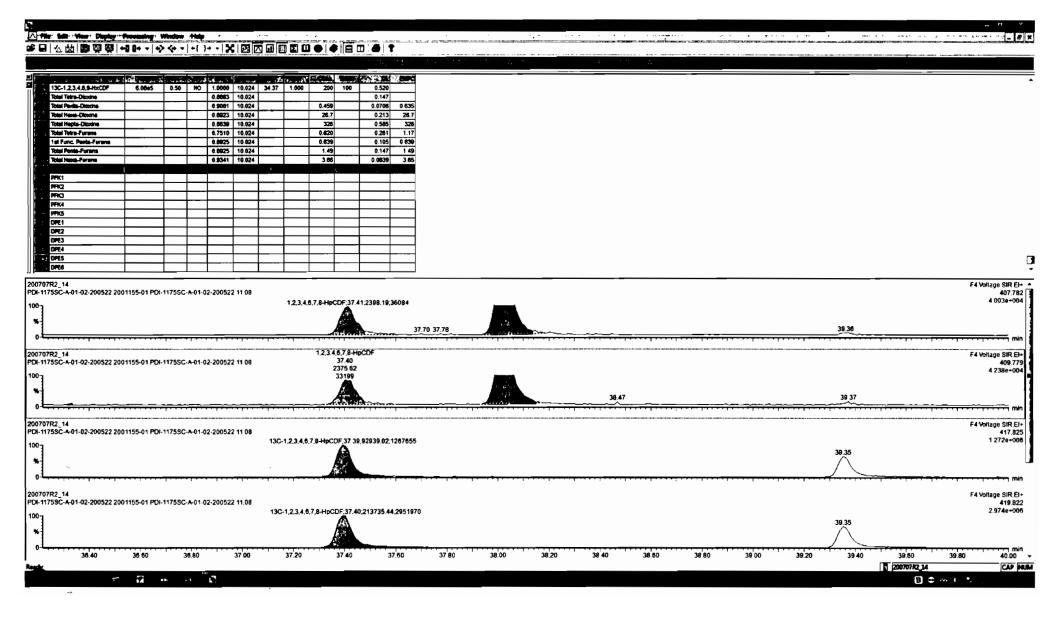
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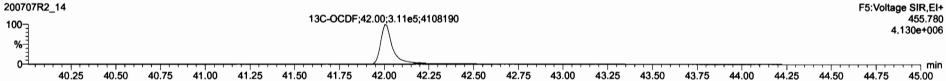


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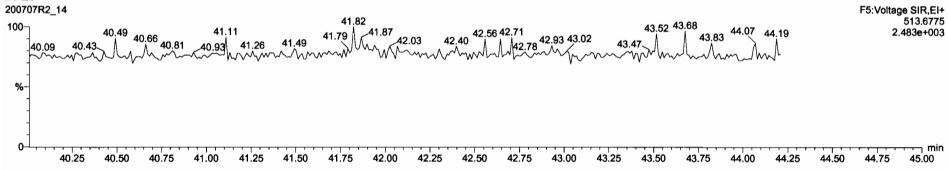
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<b>PFK1</b> 200707R2_14		F1:Voltage SIR,E
100 19.5 %	54 19.94 20.4220.48 21.38 21.51 21.90 22.41 22.52 22.82 23.16 <sup>23.57</sup> 23.86 24.07 24.64 25.02 25.17 25.71 25.93 26.41 26.77 27.23;1.39e4;117136	28.16 316.982
0 <sup>-1</sup>	50 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50	28.00 rei
<b>PFK2</b> 00707R2_14		F2:Voltage SIR,EI 32.37 366.979
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0 <sup>-1</sup> 28.50	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 30.75 31.00 31.25 31.50 31.75 32.00 3	32.25 32.50
<b>PFK3</b> 200707R2_14 100⊣	32.90 32.97 33.11 33.19;6.24e3;158525 33.71 34.09 34.30 34.87 35.30;1.47e5;730784 35.	F3:Voltage SIR,EI 74 380.976 3.267e+00
% 32.65		
0- <sup>1</sup>	32.80 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60	35.80 36.00
PFK4 00707R2_14	36.76;1.22e5;614448 <sup>37.14</sup> 37.23 37.51 37.56 <sup>37.88</sup> 37.97 38.28 38.41 38.78 <sup>39.06</sup> 39.20 39.39 39.64 3	F4:Voltage SIR,EI 9.84 430.972 2:467e+00
% 0		
<b>PFK5</b> 00707R2_14	43.95	F5:Voltage SIR,E
100 40.29;1.33e	e5;582848 40.77.40.81.40.97 41.34 41.57.41.60 41.98 42.26 42.39 42.45 42.74 42.98 43.16 43.41 43.86 43.86	454.972 1.511e+00
0 <sup>_1</sup> , , , , , , , , , , , , , , , , , , ,	5 40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50	44.75 45.00

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# GRB 07/06/2020 C7 07/09/2020

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	1 2,3,7,8-TCDD			NO	0.888	10.133	26.501		1.001				0.206	[
	2 1,2,3,7,8-PeCDD			NO	0.908	10.133	31.457		1.001				0.277	
1. A	3 1,2,3,4,7,8-HxCDD	6.12e2	1.41	NO	1.03	10.133	34.835	34.93	1.000	1.003	0.55195		0.304	0.552
	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.133	34.921		1.000				0.287	
a starting and	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.133	35.220		1.000				0.357	
	6 1,2,3,4,6,7,8-HpCDD	3.10e4	0.99	NO	0.864	10.133	38.767	38.77	1.000	1.000	34.693		0.626	34.7
	7 OCDD	2.09e5	0.87	NO	0.914	10.133	41.748	41.76	1.000	1.000	256.50		1.84	257
	8 2,3,7,8-TCDF	7.52e2	0.78	NO	0.751	10.133	25.596	25.60	1.001	1.001	0.49254	(0387)	0.144	0.493
6	9 1,2,3,7,8-PeCDF	1.14e3	1.76	NO	0.893	10.133	30.175	30.18	1.001	1.001	0.60305	`	0.122	0.603
and in the	10 2,3,4,7,8-PeCDF	7.40e2	1.74	NO	0.935	10.133	31.161	31.15	1.001	1.000	0.38977		0.114	0.390
	11 1,2,3,4,7,8-HxCDF	1.43e3	1.10	NO	0.884	10.133	33. <del>9</del> 41	33.96	1.000	1.001	1.1067		0.151	1.11
	12 1,2,3,6,7,8-HxCDF	5.61e2	1.10	NO	0.889	10.133	34.07 <del>9</del>	34.09	1.000	1.001	0.33141		0.143	0.331
44 S	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.133	34.690		1.001				0.144	
	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.133	35.571		1.000				0.233	
<b>8</b>	15 1,2,3,4,6,7,8-HpCDF	2.55e3	1.06	NO	0.873	10.133	37.386	37.37	1.001	1.001	2.3168		0.259	2.32
	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.133	39.299		1.000				0.336	
	17 OCDF	5.90e3	0.80	NO	0.806	10.133	41.940	41.95	1.000	1.000	7.0485		0.474	7.05
1	18 13C-2,3,7,8-TCDD	3.34e5	0.78	NO	1.16	10.133	26.491	26.47	1.026	1.026	104.72	53.1	0.335	
	19 13C-1,2,3,7,8-PeCDD	3.13e5	0.66	NO	0.849	10.133	31.674	31.43	1.227	1.218	133.37	67.6	0.485	
. Salar	20 13C-1,2,3,4,7,8-HxCDD	2.12e5	1.27	NO	0.779	10.133	34.819	34.83	1.014	1.014	109.81	55.6	0.861	
	21 13C-1,2,3,6,7,8-HxCDD	3.11e5	1.26	NO	1.02	10.133	34.932	34.92	1.017	1.017	123.70	62.7	0.659	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 13C-1,2,3,7,8,9-HxCDD	2.68e5	1.29	NO	0.903	10.133	35.204	35.21	1.025	1.025	119.89	60.7	0.743	
	23 13C-1,2,3,4,6,7,8-HpCDD	2.04e5	1.05	NO	0.689	10.133	38.726	38.76	1.128	1.129	119.73	60.7	0.878	
	24 13C-OCDD	3.53e5	0.89	NO	0.652	10.133	41.748	41.75	1.216	1.216	218.54	55.4	1.28	
	25 13C-2,3,7,8-TCDF	4.01e5	0.77	NO	1.06	10.133	25.534	25.57	0.989	0.991	91.578	46.4	0.470	
	26 13C-1,2,3,7,8-PeCDF	4.18e5	1.56	NO	0.838	10.133	30.058	30.15	1.165	1.168	120.42	61.0	1.09	
dian Conta	27 13C-2,3,4,7,8-PeCDF	4.01e5	1.62	NO	0.817	10.133	31.011	31.13	1.202	1.206	118.59	60.1	1.12	
Alertan and a second	28 13C-1,2,3,4,7,8-HxCDF	2.87e5	0.50	NO	1.01	10.133	33.950	33. <del>9</del> 4	0.989	0.989	115.25	58.4	0.761	
the the	29 13C-1,2,3,6,7,8-HxCDF	3.76e5	0.54	NO	1.17	10.133	34.074	34.07	0.992	0.992	130.14	65. <del>9</del>	0.657	
	30 13C-2,3,4,6,7,8-HxCDF	3.45e5	0.51	NO	1.02	10.133	34.647	34.65	1.009	1.009	136.53	69.2	0.751	
	31 13C-1,2,3,7,8,9-HxCDF	2.55e5	0.49	NO	0.860	10.133	35.547	35.57	1.035	1.036	119.86	60.7	0.892	

Quantify San Vista Analytica	aple Summary Report al Laboratory	MassLynx 4.1 SCN815	
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			2. RA	nły	RRF			55				and the off		
Section 2	32 13C-1,2,3,4,6,7,8-HpCDF	2.49e5	0.43	NO	0.774	10.133	37.295	37.35	1.086	1.088	129.90	65.8	1.03	
14	33 13C-1,2,3,4,7,8,9-HpCDF	1.53e5	0.41	NO	0.521	10.133	39.324	39.30	1.145	1.145	118.36	60.0	1.54	
	34 13C-OCDF	4.09e5	0.87	NO	0.746	10.133	41.920	41.94	1.221	1.221	221.79	56.2	0.716	
	35 37CI-2,3,7,8-TCDD	1.34e5			1.04	10.133	26.522	26.48	1.028	1.026	46.897	59.4	0.114	
	36 13C-1,2,3,4-TCDD	5.45e5	0.79	NO	1.00	10.133	25.890	25.81	1.000	1.000	197.38	100	0.387	[
with assist	37 13C-1,2,3,4-TCDF	8.17e5	0.78	NO	1.00	10.133	24.360	24.13	1.000	1.000	197.38	100	0.498	
TE WERE	38 13C-1,2,3,4,6,9-HxCDF	4.89e5	0.55	NO	1.00	10.133	34.420	34.33	1.000	1.000	197.38	100	0.767	
	39 Total Tetra-Dioxins				0.888	10.133	24.620		0.000				0.136	
	40 Total Penta-Dioxins				0.908	10.133	29.960		0.000				0.125	
and the second second	41 Total Hexa-Dioxins				0.892	10.133	33.635		0.000		8.9026		0.327	8.90
	42 Total Hepta-Dioxins				0.864	10.133	37.640		0.000		85.425		0.626	85.4
	43 Total Tetra-Furans				0.751	10.133	23.610		0.000		0.64756		0.144	1.37
	44 1st Func. Penta-Furans				0.893	10.133	27.580		0.000		0.54748		0.0571	0.547
	45 Total Penta-Furans				0.893	10.133	29.275		0.000		1.8251		0.120	1.83
	46 Total Hexa-Furans				0.934	10.133	33.555		0.000		3.4042		0.156	3.40
	47 Total Hepta-Furans				0.873	10.133	37.835		0.000		8.0175		0.309	8.02

Page 2 of 2

#### Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-9.qld

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Name: 200628R1\_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

# Tetra-Dioxins

mt Height m2 Height m1 Resp. m2 Resp. m

### Penta-Dioxins

mt Helphi m2 Helphi m2 Helphi m2 Reep . M2 Reep . M2 Reep . M4 Methods .

#### Hexa-Dioxins

			m2 Height		and a sources	5	1 <sup>0</sup> 1.	Citer and second	and the second	Sec. 1	terein Cita
Tetel Lieve Dission	33.32	4.610e4	3.687e4	2.602e3	2.176e3	1.20	NO	4.778e3	4.0087	4.0087	0.327
Total Hexa-Dioxins	33.88	7.303e3	5.743e3	4.096e2	3.066e2	1.34	NO	7.161e2	0.60084	0.60084	0.327
Total Hexa-Dioxins	34.13	2.607e4	1.957e4	1.997e3	1.630e3	1.23	NO	3.627e3	3.0431	3.0431	0.327
	34.24	6.463e3	5.177e3	4.431e2	3.888e2	1.14	NO	8.320e2	0.69801	0.69801	0.327
1,2,3,4,7,8-HxCDD	34.93	6.263e3	3.550e3	3.581e2	2.538e2	1.41	NO	6.119e2	0.55195	0.55195	0.304

#### Hepta-Dioxins

Total Hepta-Dioxins 1,2,3,4,6,7,8-HpCDD		HIR Halgha	112 Height	nat Real	n2 Reap	12112		t. Philadeline	enangger, merer Angelanden, en		
15 A March Total Hepta-Dioxins	37.76	2.215e5	2.328e5	2.271e4	2.265e4	1.00	NO	4.536e4	50.732	50.732	0.626
1,2,3,4,6,7,8-HpCDD	38.77	1.698e5	1.692e5	1.539e4	1.562e4	0.99	NO	3.102e4	34.693	34.693	0.626

#### **Tetra-Furans**

		A1 Height	m2 Height	mt Roop	m2 Resp	RA	Zoom Bape			
Total Tetra-Furans	21.47	1.581e3	1.840e3	1.248e2	1.394e2	0.90 YI	ES 0.000e0	0.00000	0.16163	0.144
Total Tetra-Furans	22.41	1.948e3	1.947e3	1.036e2	1.331e2	0.78	O 2.367e2	0.15502	0.15502	0.144
Total Tetra-Furans	24.67	5.726e3	5.903e3	4.467e2	4.844e2	0.92 YI	ES 0.000e0	0.00000	0.56164	0.144
Total Tetra-Furans Total Tetra-Furans Total Tetra-Furans Total Tetra-Furans 2,3,7,8-TCDF	25.60	4.986e3	4.700e3	3.297e2	4.222e2	0.78	NO 7.519e2	0.49254	0.49254	0.144

#### Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

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Name: 200628R1\_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

#### Penta-Furans function 1

1st Func. Penta-Furans		mit Height	m2 Height	mi Resp	h2Rest	RA					Same 1
1st Func. Penta-Furans	27.58	9.580e3	7.032e3	6.094e2	4.033e2	1.51	NO	1.013e3	0.54748	0.54748	0.0571

#### Penta-Furans

		mt Height	m2 Height	m1 Real	12 Resp	RAP	12		the line of the		
Total Penta-Furans	29.16	7.488e3	6.378e3	4.829e2	3.592e2	1.34	NO	8.421e2	0.45524	0.45524	0.120
1,2,3,7,8-PeCDF	30.18	1.180e4	5.702e3	7.263e2	4.123e2	1.76	NO	1.139e3	0.60305	0.60305	0.122
Total Penta-Furans	30.43	4.982e3	4.578e3	3.264 <del>e</del> 2	1.951e2	1.67	NO	5.214e2	0.28188	0.28188	0.120
2,3,4,7,8-PeCDF	31.15	8.429e3	4.767e3	4.692e2	2.703e2	1.74	NO	7.396e2	0.38977	0.38977	0.114
Total Penta-Furans	31.21	4.308e3	2.859e3	1.102e2	6.588e1	1.67	NO	1.761e2	0.095175	0.095175	0.120

#### Hexa-Furans

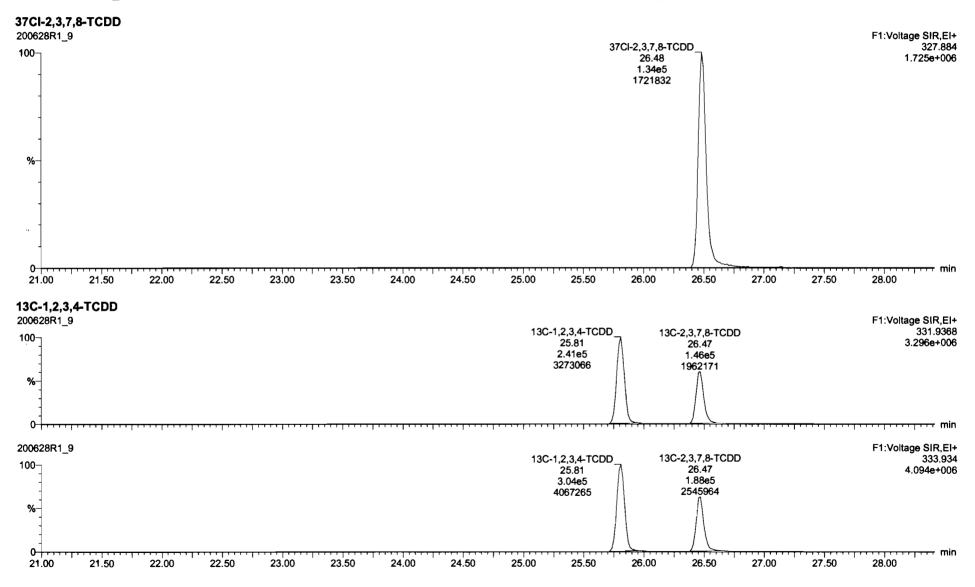
			In Height	m2 Helghi	IN VIRGID			ويد المراجعة	Activity	W.B. Son Charles and	Second Stand	
· · · ·	Total Hexa-Furans	32.79	2.902e3	2.083e3	1.259e2	9.302e1	1.35	NO	2.189e2	0.14642	0.14642	0.156
	Total Hexa-Furans	32.95	9.977e3	8.853e3	5.582e2	4.645e2	1.20	NO	1.023e3	0.683 <del>94</del>	0.68394	0.156
and and include	Total Hexa-Furans	33.49	1.691e4	1.217e4	9.099e2	7.883e2	1.15	NO	1.698e3	1.1357	1.1357	0.156
	1,2,3,4,7,8-HxCDF	33.96	1.248e4	1.279e4	7.471e2	6.785e2	1.10	NO	1.426e3	1.1067	1.1067	0.151
a	1,2,3,6,7,8-HxCDF	34.09	4.984 <del>e</del> 3	3.627e3	2.935e2	2.678e2	1.10	NO	5.613e2	0.33141	0.33141	0.143

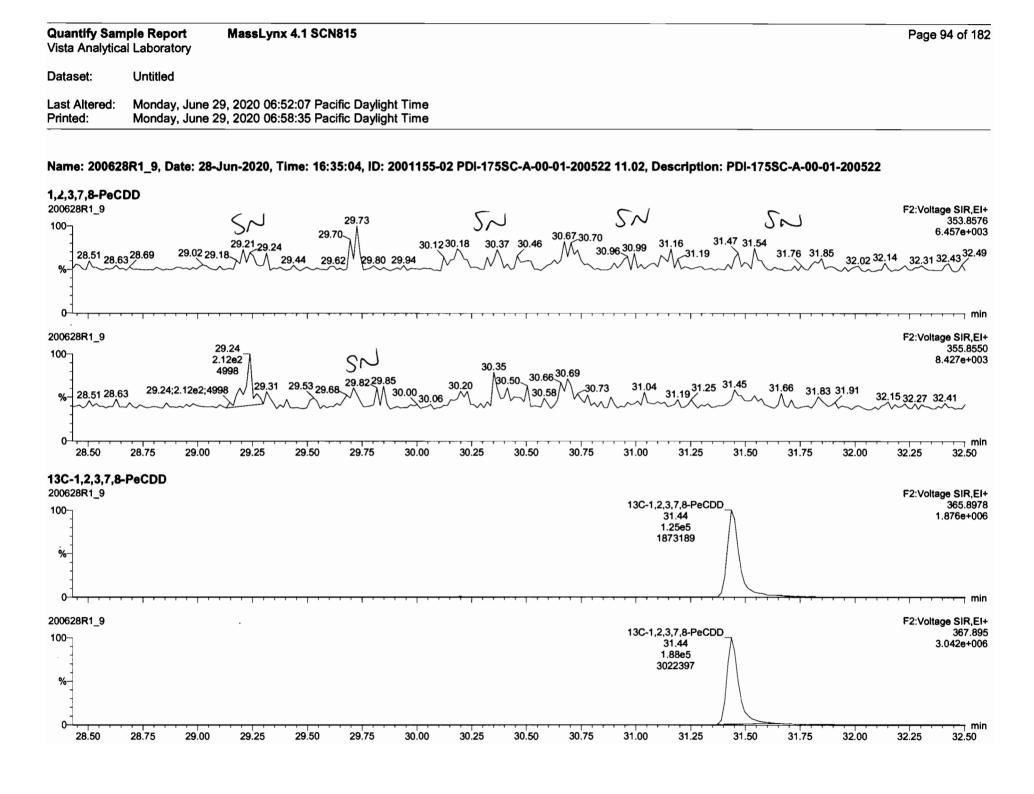
# Hepta-Furans

, i		2,3,4,6,7,8-HpCDF stal Hepta-Furans		N Height	m2 Height	mi fiere			Date sile	In Enderthe St	Street In	A STATE A	
	1,2	2,3,4,6,7,8-HpCDF	37.37	1.793e4	1.688e4	1.312e3	1.241e3	1.06	NO	2.553e3	2.3168	2.3168	0.259
	То	tal Hepta-Furans	37.97	2.880e4	2.832e4	2.521e3	2.546e3	0.99	NO	5.066e3	5.7007	5.7007	0.309

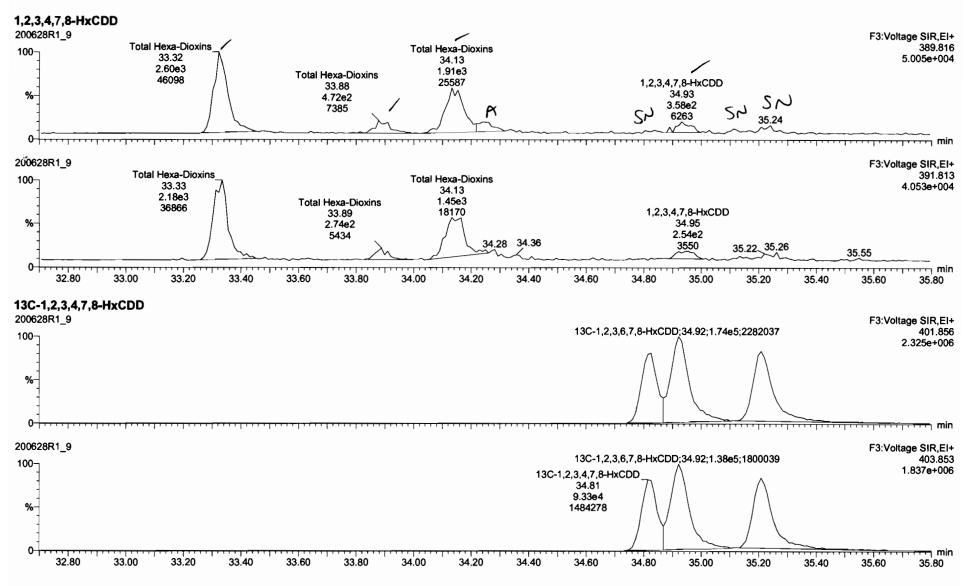
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		52		52	Sr	٢	SN25,99	5~	F1:Voltage SIR, 319.8
21.23 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	21.33 21.78 21.92 Mmhhhh	22.65 22.23 22.47	22.91 23.16	23.34 23.83 23.98 MMMMM	24.30 24.55 24 MMM	4.81 24.87 25.29 <sub>25.50</sub>	SN 25.99 25.81 26.23 26.41 Min Martin	26.93 27.11 MMM	6.722e+ 27.58 27.97 28.25 <sub>28.</sub> VMMMMMMM
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_	5 21.62 22.0	22.43 4 22.49	22.92 23.15	23.42 23.55 23.80	24.33 24	1.78 25.42 2 $1.7224.99$ 25.26 $h$ $\sim$ 1	2.96e2 2.9	.50 6e2 /46 	321. 7.035e+ 27: <sup>46</sup> 27.76 28.06 28.38
0 21.14 <sup>21.4</sup> 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	21.50 22.00	4 	22.92 23.15 2 2 2 2 2 2 2 3.00	23.42 23.55 23.80 23.42 23.55 23.80 23.50 23.50 24.00	••	25.00 $25.42$ $25.42$ $25.42$ $25.42$ $25.42$ $25.42$ $25.00$ $25.50$	2.96e2 2.9 26.21 3746 37	6e2 /46	321. 7.035e+ 27.46 27.76 28.06 28.38
21.14 <sup>21.4</sup> 21.14 <sup>21.4</sup> 21.00 21.00 21.00 21.00 21.00 21.00	21.50 22.00	4 				25.00 25.50	2.96e2 2.9 26.21 3746 37 26.05 4 26.00 26.50	6e2 '46 26.83 27.08	321. 7.035e+ 27.46 27.76 28.06 28.38 27.50 28.00 F1:Voltage SIR
0 21.14 <sup>21.44</sup> %- 0 21.00 21.00 21.00 21.00 21.00 20 20 20 20 20 20 20 20 20 20 20 20 2	21.50 22.00	4 				25.00 25.50 13C-1,2,3,4-TCD 25.81	2.96e2 2.9 26.21 3746 37 26.05 26.05 26.50 26.00 26.50 D	6e2 '46 26.83 27.08	321. 7.035e+ 27.46 27.76 28.06 28.38 27.50 28.00 F1:Voltage SIR 331.9
21.14 <sup>21.4</sup> %	21.50 22.00	4 				25.00 25.50 13C-1,2,3,4-TCD	2.96e2 2.9 26.21 3746 37 26.05 26.05 26.00 26.50 26.00 26.50	6e2 '46 26.83 27.08	321. 7.035e+ 27.46 27.76 28.06 28.36 27.50 28.00 F1:Voltage SIR, 331.9
21.14 <sup>21.4</sup> 21.14 <sup>21.4</sup> %- 	21.50 22.00	4 				25.00 25.50 13C-1,2,3,4-TCD 25.81 2.41e5	2.96e2 2.9 26.21 3746 37 26.05 26.05 26.50 26.50 26.50 26.47 1.46e5	6e2 '46 26.83 27.08	321. 7.035e+ 27.46 27.76 28.06 28.38 27.50 28.00 F1:Voltage SIR 331.9
0 21.14 <sup>21.4</sup> % 0 21.14 <sup>21.4</sup> 0 21.00 21.00 30 30 30 30 4 4 4 4 4 4 4 4 4 4 4 4 4	21.50 22.00	4 				25.00 25.50 13C-1,2,3,4-TCD 25.81 2.41e5	2.96e2 2.9 26.21 3746 37 25.77 26.05 26.50 26.50 26.50 26.47 1.46e5 1962171	6e2 '46 26.83 27.08 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	321. 7.035e+ 27.46 27.76 28.06 28.36 27.50 28.00 F1:Voltage SIR 331.9 3.296e+ F1:Voltage SIR
21.14 <sup>21.4</sup> %	21.50 22.00	4 				25.00 25.50 13C-1,2,3,4-TCD 25.81 2.41e5 3273066 13C-1,2,3,4-TCD 25.81	2.96e2 2.9 26.21 3746 37 25.77 26.05 4 26.00 26.50 D 13C-2,3,7,8-TC 26.47 1.46e5 1962171 0 13C-2,3,7,8-TC 26.47	6e2 '46 26.83 27.08 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	321. 7.035e+ 27.46 27.76 28.06 28.36 27.50 28.00 F1:Voltage SIR, 331.9 3.296e+ F1:Voltage SIR, 333.9
00628R1_9 00 21.14 <sup>21.4</sup> % 10 21.00 3 <b>C-2,3,7,8-T</b> 00 3 <b>C-2,3,7,8-T</b> 00 0 0 0 0 0 0 0 0 0 0 0 0	21.50 22.00	4 				25.00 25.50 13C-1,2,3,4-TCD 25.81 2.41e5 3273066	2.96e2 2.9 26.21 3746 37 26.05 26.00 26.50 D 13C-2,3,7,8-TC D 13C-2,3,7,8-TC	6e2 '46 26.83 27.08 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	321. 7.035e+ 27.46 27.76 28.06 28.36

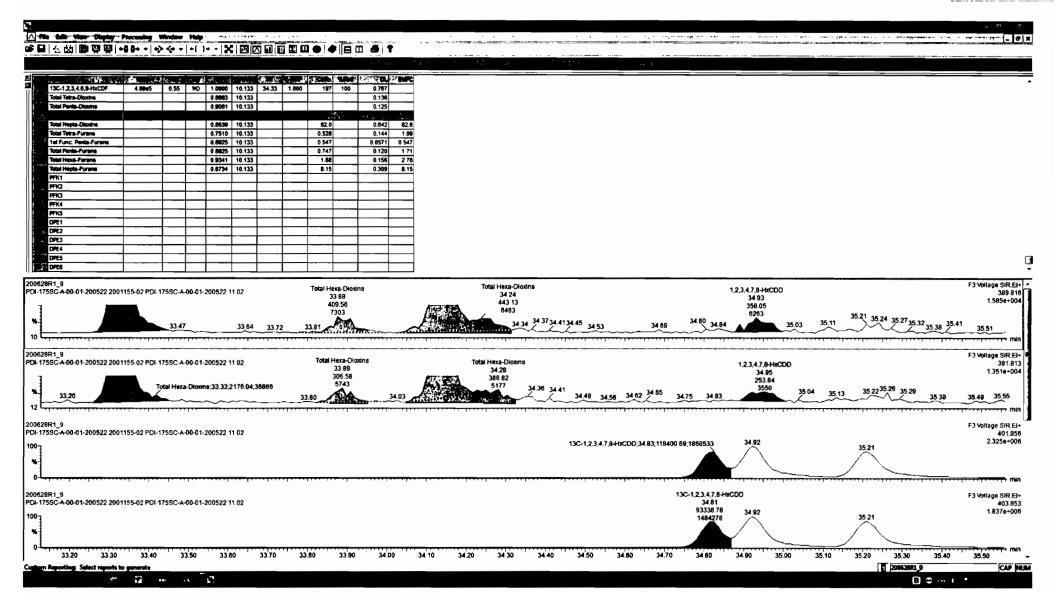
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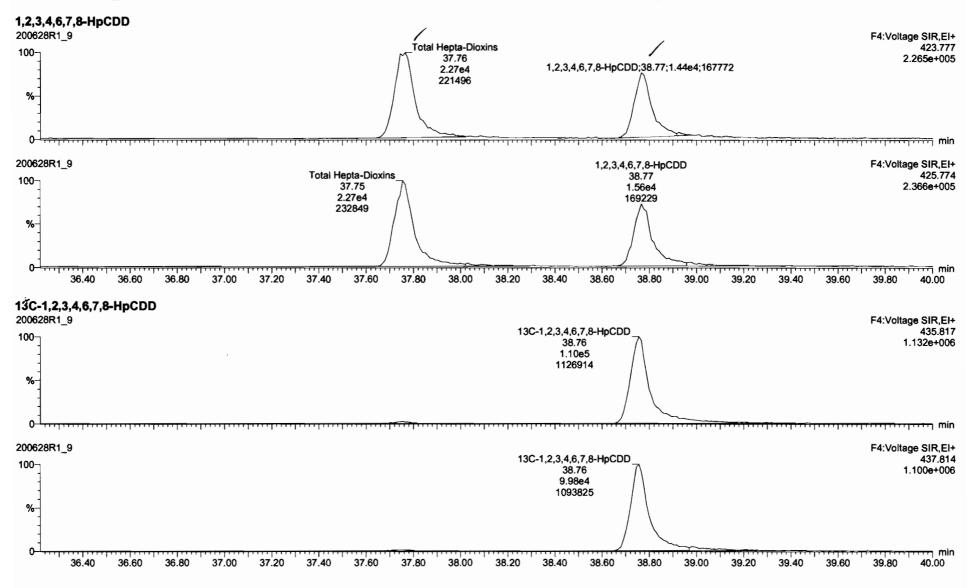


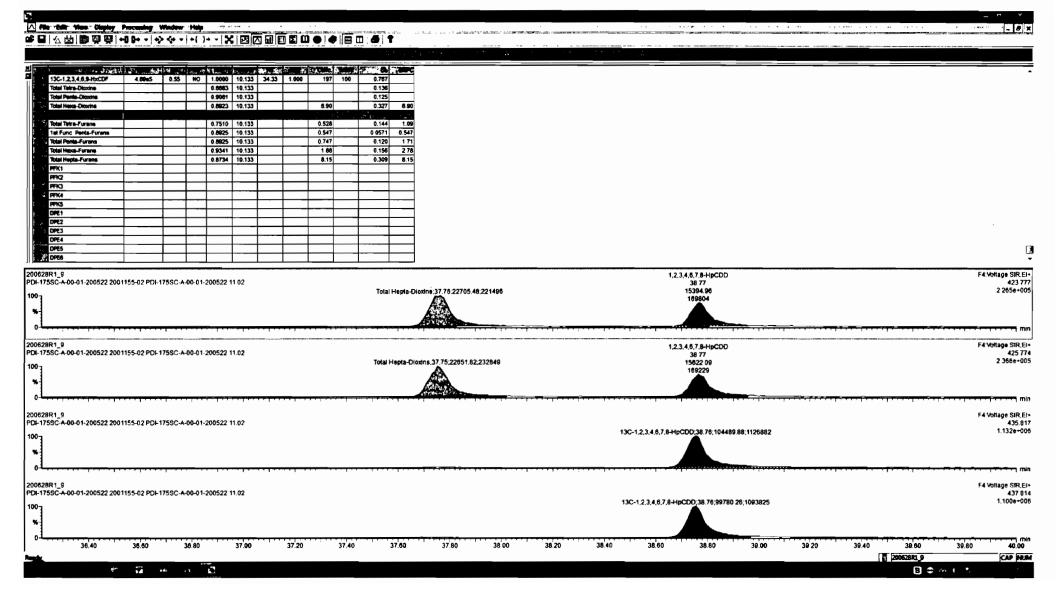
Quantify Sam Vista Analytica		Page 95 of 182
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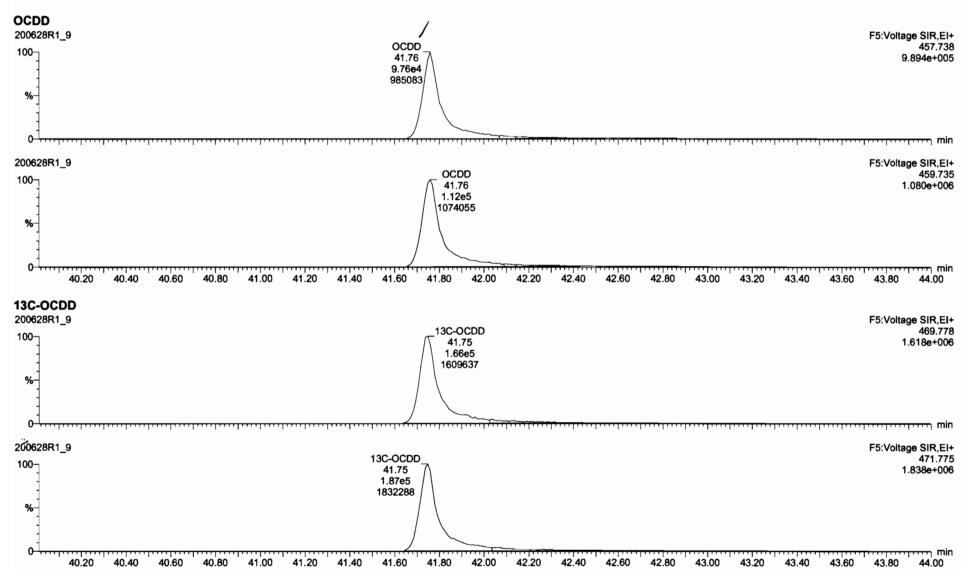


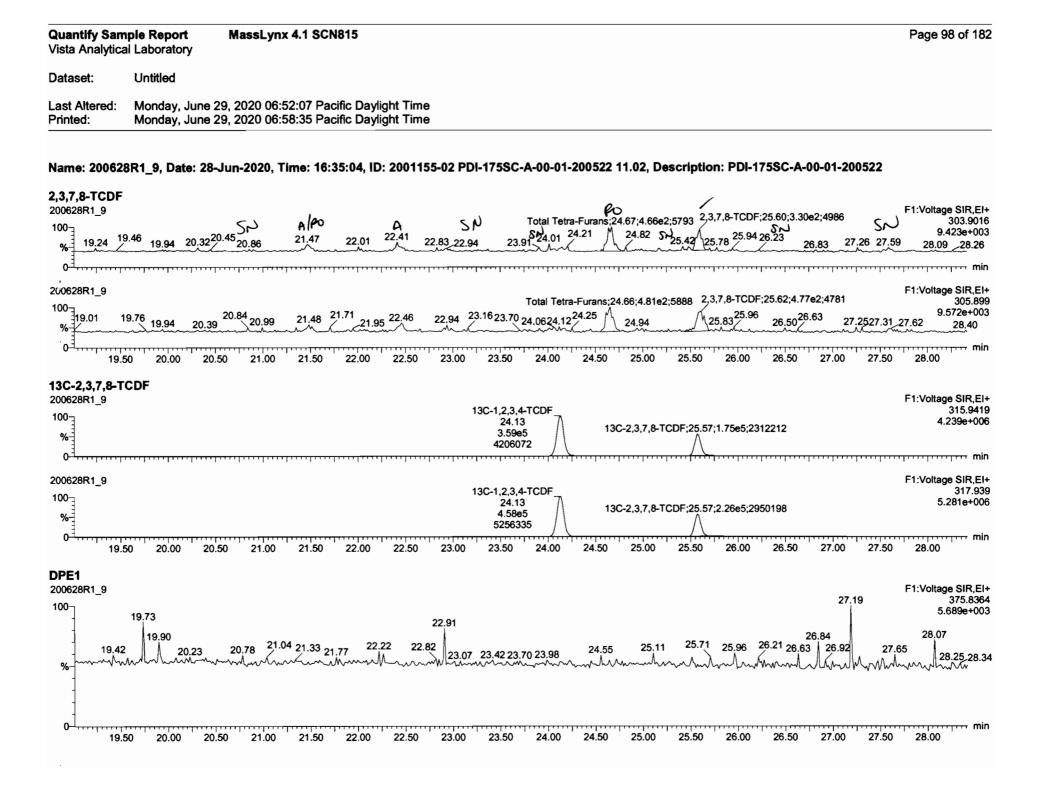
Quantify San Vista Analytica		Page 96 of 182
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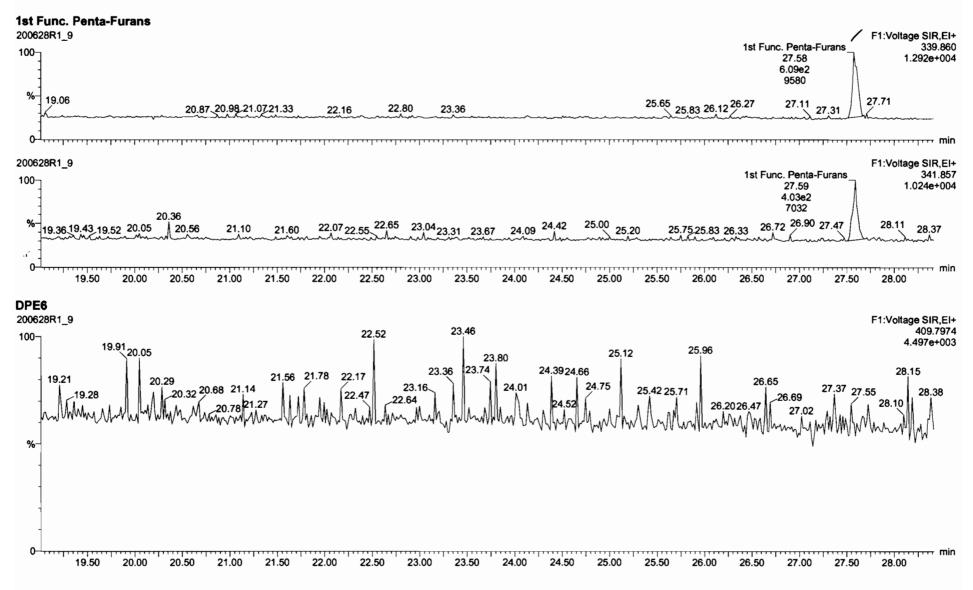
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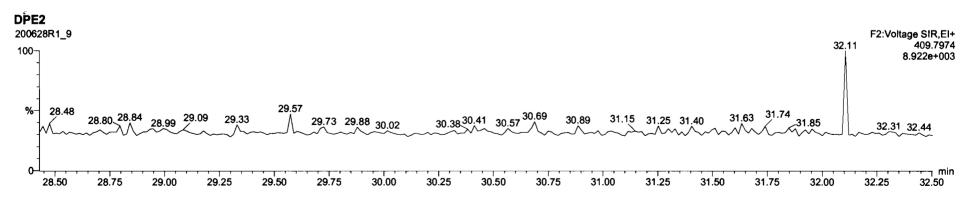
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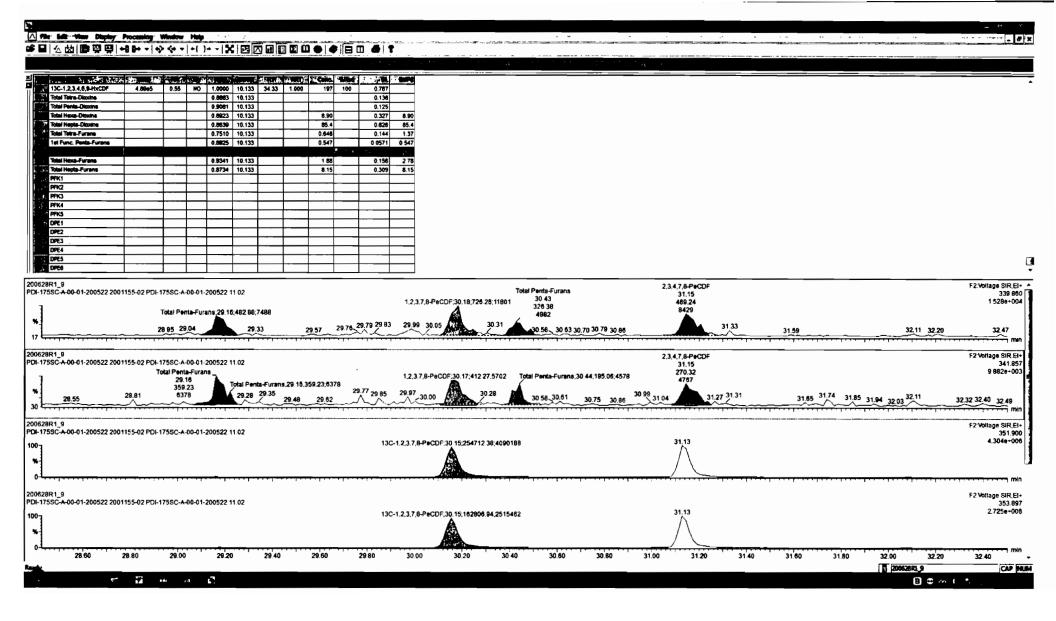
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Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacific Daylight Time Monday, June 29, 2020 06:58:35 Pacific Daylight Time	



Quantify San /ista Analytica		MassLynx 4.1	SCN815							Page 100 of 18
)ataset:	Untitled									
ast Altered: rinted:	Monday, June 29 Monday, June 29									
ame: 20062 2,3,7,8-PeC	8R1_9, Date: 28-J	un-2020, Time:	: 16:35:04, ID:	2001155-02 PDI	-175SC-A-00-0	1-200522 11.02, De	escription:	PDI-1758C-A-(	0-01-200522	
2,3,7,6-F6C 00628R1_9		ns;29.16;4.83e2;74 29.33		2,3,7,8-PeCDF;30.18	1	2,3,4,7,8-PeCDF; 3_30.78	31.15;6.29e2;	8584 <u>31.59</u>	SN 32.11	F2:Voltage SIR,EI 339.86 1.528e+00 32.20 32.47 mi
0628R1_9	Total Penta-Fural 28.81 29.02	ns;29.16;3.59e2;63 29.28 <sup>29.35</sup> 2		2,3,7,8-PeCDF;30.17; 29.97	٨	2,3,4,7,8-PeCDF; 30.75 30.99 31.04	31.15;3.20e2;	4616 31.65 31.74	31.85 32.11	F2:Voltage SIR,EI 341.85 9.882e+00
0 <del>1</del> ,,,,,,, 28.50	28.75 29.00	29.25 29	50 29.75	30.00 30.2	5 30.50	30.75 31.00	31.25	31.50 31.75	5 32.00	32.25 32.50
<b>3C-1,2,3,7,8</b> 00628R1_9 00⊣	-PeCDF			,3,7,8-PeCDF 30.15 2.55e5		13C-2,3,4,7,8-PeCDF_ 31.13 2.48e5	Λ			F2:Voltage SIR,El 351.90 4.304e+00

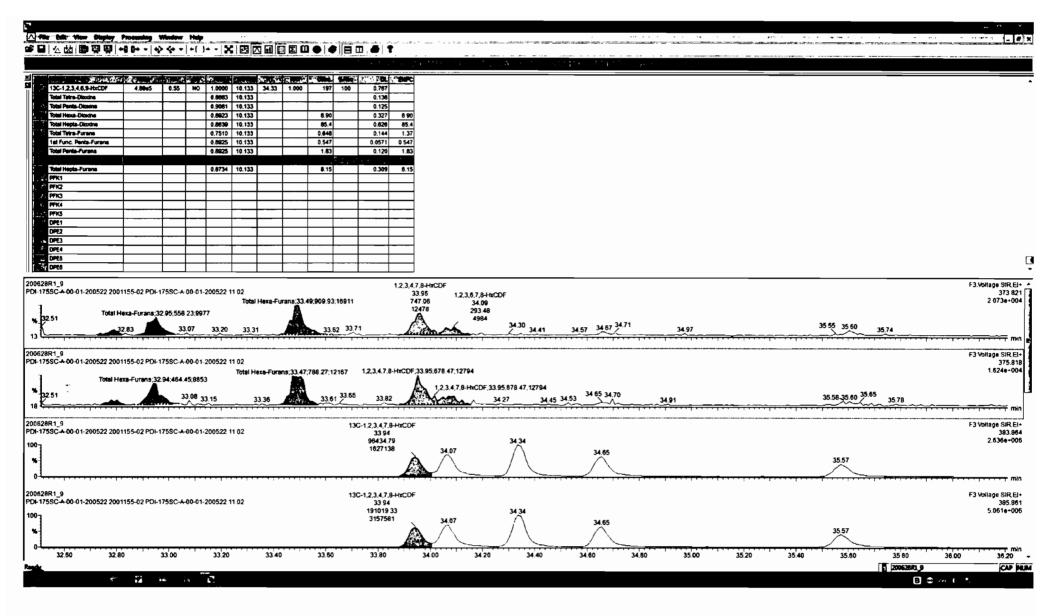
200628R1_9															F2:Volta	ige SIR,EI+
100 <sub>-7</sub>						3,7,8-PeCDI	=			7,8-PeCDF_ .13	7					353.897 2.725e+006
<b>%</b>						0.15 63e5	$\wedge$			3e5	/ \					
						15462			2684	<b>164</b> 4 /						
0																min r
28.50	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.50



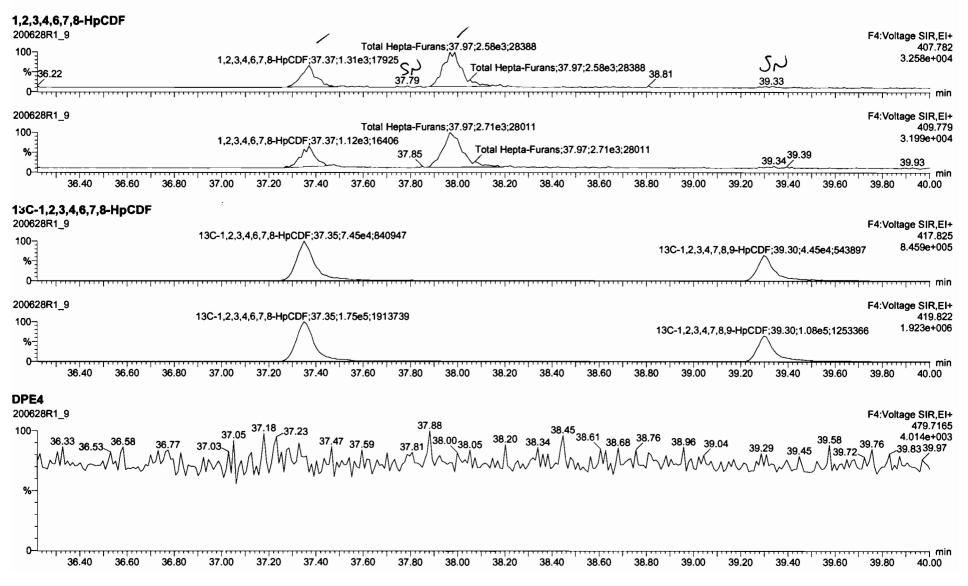


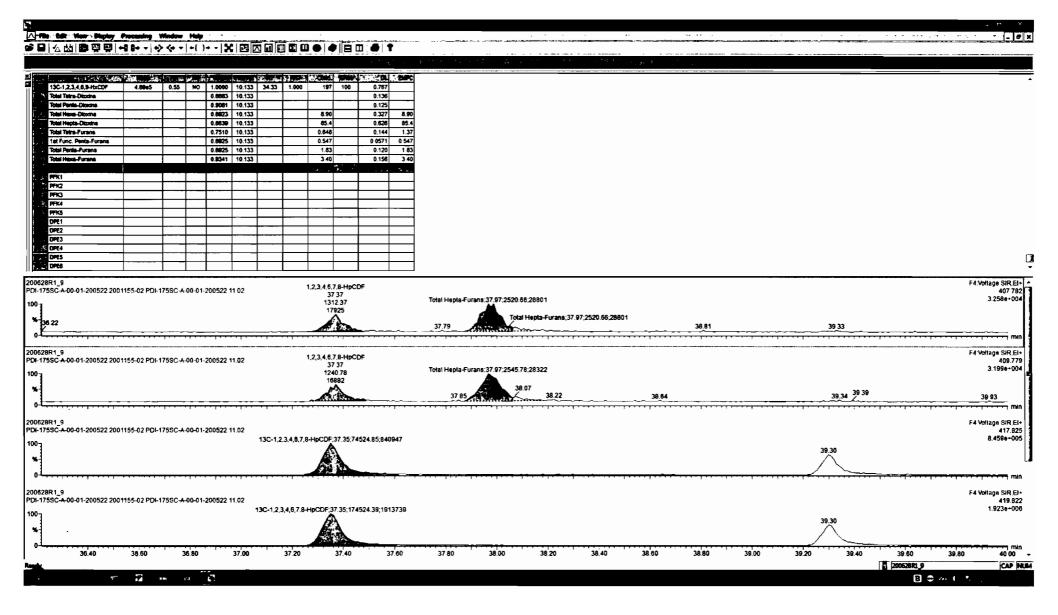
<b>Quantify Sam</b> Vista Analytica					Page 101 of 18
Dataset:	Untitled				
Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacific Daylight Time Monday, June 29, 2020 06:58:35 Pacific Daylight Time				
lame: 20062	8R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 20011	55-02 PDI-175SC-A-00-01-20	0522 11.02, Des	cription: PDI-175SC-A-0	0-01-200522
<b>,2,3,4,7,8-Hx</b> 200628R1_9	CDF Total Hexa-Furans;33.49;9.85e2;17185 Hexa-Furans;32.95;5.58e2;997 7 32.79 33.07 33.20 33.71	1,2,3,4,7,8-HxCDF;33.96;6.47e2 34,09 34,20 34.30_34.35	2;11809 S J 34.67	34.97 SN	F3:Voltage SIR,E 373.82 S → 2.073e+00 35 <u>.</u> 60 35.74
0-1					
200628R1_9 100 %-32.51	Total Hexa-Furans;33.47;7.88e2;12167         1,2,3,4,7,8-HxCl           32.80         33.08         33.15         33.36         33.61         33.82	DF;33.95;6.30e2;12476 1,2,3,4,7,8-HxCDF;33.95;6.30	0e2;12476	~	F3:Voltage SIR,E 375.81 1.624e+00 35.60_35.65
0 <sup>1</sup> 32.60	32.80 33.00 33.20 33.40 33.60 33.80	34.00 34.20 34.40	34.60 34.80	35.00 35.20 35.	40 35.60 35.80 36.00
<b>3C-1,2,3,4,7,</b> 00628R1_9	8-HxCDF	13C-1,2,3,4,6,9-HxCDF;34,34;1.74	4e5:2619409		F3:Voltage SIR,E 383.86
100				13C-1,2,3,7,8	2.636e+00 ,9-HxCDF;35.57;8.34e4;1043563
200628R1_9		13C-1.2.3.4.6.9-HxCDF;34.34;3.14	4e5:4940297		m F3:Voltage SIR,E 385.86
100- %		$\wedge \wedge \wedge$	$\wedge$	13C-1,2,3,7,8	5.061e+00 ,9-HxCDF;35.57;1.72e5;1972706
0 <del>-1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	32.80 33.00 33.20 33.40 33.60 33.80	34.00 34.20 34.40	34.60 34.80	35.00 35.20 35.	40 35.60 35.80 36.00
<b>DPE3</b> 200628R1_9 100 <sub>7</sub>	32.77 32.84 33.19				F3:Voltage SIR,E 445.755 4.551e+00
32.57 32.61	33.37 33.44	88 34.06 <sup>34.18</sup> 34.29 34.32 34	9.44 34.67 34.8	5 <sup>34.90</sup> 35.12 35.27	35.49 35.55 35.58 35.77 35.92 35.98

0-34.00 34.20 34.40 34.80 35.00 35.20 35.40 35.60 32.60 33.00 33.40 33.60 33.80 34.60 33.20 32.80



Quantify Sam Vista Analytica		Page 102 of 182
Dataset:	Untitled	
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<b>Quantify Sam</b> Vista Analytica		Page 103 of 18
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Name: 20062	R1_9, Date: 28-Jun-2020, Time: 16:35:04, ID: 2001155-02 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522	
DCDF 200628R1_9 100	OCDF;41.95;2.85e3;31456 42.18 42.32 42.60	F5:Voltage SIR,EI 441.74 3.553e+00
0 <sup>1</sup> 200628R1_9 100 40.16	OCDF;41.95;3.27e3;37851 41.16 41.16	F5:Voltage SIR,EI 443.74 4.147e+00
40.2		44.75 45.00
3C-OCDF 200628R1_9	13C-OCDF;41.94;1.91e5;1954191	F5:Voltage SIR,EI 453.783 1.960e+00
0 <sup>1</sup>	13C-OCDF;41.93;2.19e5;2144831	F5:Voltage SIR,El 455.78 2.155e+00
0 <sup>1</sup>	40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50	44.75 45.00
DPE5 200628R1_9 100 40.11 40.1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	F5:Voltage SIR,El 513.677 3.910e+00 44.84

#### 44.75 45.00 0-40.25 40.50 42.75 43.25 41.75 42.00 42.25 42.50 43.00 43.50 43.75 44.00 44.25 44.50 41.00 41.50 40.75 41.25

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	1,2,3,6,7,8-HxC00				0.8923						0.267																	
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	1,2,3,4,6,7,8-HpCUU 0C0D	2.09e5	0.92		0.9136				257		1.84	257																
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	1.2.3,7,8-PeCDF	1.19e3	2.05					1.001	0.631	_		0 528																
1	2.3.4.7.8-Pecor	9.4942	1.96		0.8348		31.15		0.500			0.431																
	1,2,3,4,7,8-HbcOF	1.28e3	1.03		9.8845		33.96	1.001	0.991			0.907																
	1,2,3,6,7,8-HxCOF		<u> </u>			10.133			$\rightarrow$		0.143																	
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	1,2,3,4,6,7,8-HpCDF	2.43e3	1.18					1.001	2.20			2.20																
	1.2.3.4.7.8.8-HeCDF		1			10.133		1			0.336																	
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	13C-2,3,7,8-TCDD	3.3465	0.78				26 47			53 1	0.335																	
ļ	13C-1,2,3,7,8-PeCDD	3.1365	0.66				31.43			67.6	0.485																	
	13C-1.2,3,4,7,8-HxCDD 13C-1.2,3,6,7,8-HxCDD	2.1205	1.27				34.83 34.92			55.6 62.7	0.861																	_
11 1	130-1.2,3,0,7,8-10000	3.1103	1.20	-	1.0101	10.135	271.02	1.417	144	W2.1	0.000																	•
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<u>ا</u>	40.20 40	40.		40.80			-1.20		- 1.40	41.00	-1.00	•	-2.00	42.20	-20	42.00	42.00	40.00	40.20	40.40	40.00	-0.00	44.00	44.20	200628			CAP NUM
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<b>Quantify Sam</b> /ista Analytica		MassLynx 4.1	SCN815											Page 1	04 of 18
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lame: 200628 PrK1	3R1_9, Date: 28-	Jun-2020, Time:	16:35:04, ID: 2	2001155-02 PI	DI-1/38C-P	4-00-01-2	200522 1	1.02, De	scription	i: PDI-17	33C-A-U	0-01-200	U522		
00628R1_9														F1:Volta	ge SIR,E
100 19.4 %	8 19.81 20.20 20.2	29 20.65 21.27	21.78 22.32 2	2.44 22.80 23.1	0 23.48 23.7	76 24.06	24.55	25.18.25	29 25.65	26.23.26	.51_26.60	27.07	27.52 2	7.61	316.982 - <b>5686</b> +00
0 <sup>-1</sup>	0 20.00 20.	50 21.00 21.	50 22.00	22.50 23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	m
FK2 00628R1_9														F2:Volta	ge SIR,E
_	9e4;635077 29.18;	9.69e4;547822 29.41	;1.89e4;463202	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	30.43;9.01e3;1	121867		31.2	28;5.74e4;3	07839	$\sim$	32.09;	2.84e4;26	3595	366.97
% <u>28.43</u>								~~~~	<u> </u>		<u> </u>				.4026+00
0- <sup>-1</sup> 28.50	28.75 29.00	29.25 29.	50 29.75	30.00 30	0.25 30.	.50 3	0.75	31.00	31.25	31.50	31.75	5 32.	00 3	32.25	32.50
FK3														E2.\/alta	
00628R1_9	.87;1.26e6;3353944	33.	13	33.91	34.21	34.41	34.57		34.95	35	.22 35.7	1;1.40e5;1	046531		ge SIR,E 380.976
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<b>PFK4</b> 00628R1_9				27.0	1;1.11e5;7568	902								F4:Volta	ge SIR,E
100 <sub>3</sub>	36.88;7.90e5;7836	83 37.05 37.17	37.45;1.38e5;1103	3612 57.0		38.29	38.	52 38.	73	39.03	39.44;	4.47e5;178	80265	39.78 6	430.972 6.816e+00
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36.40	36.60 36.8	0 37.00 37.2	0 37.40 3	7.60 37.80	38.00	38.20	38.40	38.60	30.00	39.00	39.20	39.40	39.60	39.80	40.00
00628R1_9														F5:Volta	ige SIR,E
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40.2	5 40.50 40.75	41.00 41.25	41.50 41.7	5 42.00 4	2.25 42.5	0 42.75	43.00	43.25	43.50	43.75	44.00	44.25	44.50	44.75	45.00

Quantify San Vista Analytica	aple Summary Report al Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\20	00628R1\200628R1-10.qld	
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GPB 07/06/2020

# Method: Untitled 01 Jun 2020 11:54:45 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200628R1\_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522

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1 2,3,7,8-TCDD		, -	NO	0.888	10.017	26.501		1.001				0.146	
2 1,2,3,7,8-PeCDD			NO	0.908	10.017	31.473		1.001				0.155	
3 1,2,3,4,7,8-HxCDD			NO	1.03	10.017	34.835		1.000				0.198	ļ
4 1,2,3,6,7,8-HxCDD	7.84e2	1.26	NO	0.892	10.017	34.932	34.94	1.000	1.000	0.45197		0.197	0.452
5 1,2,3,7,8,9-HxCDD			NO	0.887	10.017	35.230		1.000				0.241	
6 1,2,3,4,6,7,8-HpCDD	1.68e4	0.94	NO	0.864	10.017	38.767	38.78	1.000	1.001	16.590		0.490	16.6
7 OCDD	1.19e5	0.83	NO	0.914	10.017	41.759	41.77	1.000	1.000	142.40		1.13	142
8 2,3,7,8-TCDF	8.45e2	0.76	NO	0.751	10.017	25.596	25.60	1.001	1.001	0.44843		0.120	0.448
9 1,2,3,7,8-PeCDF	3.33e3	1.75	NO	0.893	10.017	30.175	30.17	1.001	1.000	1.3286		0.127	1.33
10 2,3,4,7,8-PeCDF	1.20e3	1.40	NO	0.935	10.017	31.154	31.16	1.000	1.000	0.47363		0.113	0.474
11 1,2,3,4,7,8-HxCDF	2.61e4	1.22	NO	0.884	10.017	33.952	33.96	1.000	1.000	16.363		0.262	16.4
12 1,2,3,6,7,8-HxCDF	1.14e4	1.20	NO	0.889	10.017	34.079	34.08	1.000	1.000	5.8385		0.233	5.84
13 2,3,4,6,7,8-HxCDF	1.59e3	1.19	NO	0.934	10.017	34.700	34.68	1.001	1.000	0.87356		0.271	0.874
14 1,2,3,7,8,9-HxCDF	6.58e2	1.19	NO	0.871	10.017	35.571	35.61	1.000	1.001	0.49648		0.450	0.496
15 1,2,3,4,6,7,8-HpCDF	1.50e4	1.03	NO	0.873	10.017	37.386	37.37	1.001	1.001	12.082		0.323	12.1
16 1,2,3,4,7,8,9-HpCDF	2.36e3	0.96	NO	1.01	10.017	39.298	39.31	1.000	1.000	2.5943		0.402	2.59
17 OCDF	8.47e3	0.82	NO	0.806	10.017	41.950	41.96	1.000	1.000	9.7064		0.447	9.71
18 13C-2,3,7,8-TCDD	4.52e5	0.80	NO	1.16	10.017	26.491	26.47	1.026	1.026	146.50	73.4	0.357	
19 13C-1,2,3,7,8-PeCDD	4.10e5	0.66	NO	0.849	10.017	31.674	31.45	1.227	1.219	180.86	90.6	0.458	
20 13C-1,2,3,4,7,8-HxCDD	2.74e5	1.27	NO	0.779	10.017	34.830	34.83	1.014	1.014	147.78	74.0	0.732	
21 13C-1,2,3,6,7,8-HxCDD	3.88e5	1.27	NO	1.02	10.017	34.944	34.93	1.017	1.017	160.50	80.4	0.561	
22 13C-1,2,3,7,8,9-HxCDD	3.52e5	1.28	NO	0.903	10.017	35.215	35.22	1.025	1.025	163.85	82.1	0.632	
23 13C-1,2,3,4,6,7,8-HpCDD	2.34e5	1.08	NO	0.689	10.017	38.739	38.76	1.128	1.128	142.72	71.5	0.544	
24 13C-OCDD	3.64e5	0.86	NO	0.652	10.017	41.761	41.76	1.216	1.216	234.62	58.8	1.19	
25 13C-2,3,7,8-TCDF	5.01e5	0.78	NO	1.06	10.017	25.534	25.57	0.989	0.991	118.51	59.4	0.496	
26 13C-1,2,3,7,8-PeCDF	5.60e5	1.60	NO	0.838	10.017	30.058	30.15	1.165	1.168	167.41	83.8	0.981	
27 13C-2,3,4,7,8-PeCDF	5.41e5	1.59	NO	0.817	10.017	31.011	31.15	1.202	1.207	166.09	83.2	1.01	
28 13C-1,2,3,4,7,8-HxCDF	3.60e5	0.51	NO	1.01	10.017	33.961	33.95	0.989	0.988	150.28	75.3	0.967	
29 13C-1,2,3,6,7,8-HxCDF	4.40e5	0.51	NO	1.17	10.017	34.085	34.07	0.992	0.992	158.47	79.4	0.835	
30 13C-2,3,4,6,7,8-HxCDF	3.90e5	0.52	NO	1.02	10.017	34.659	34.67	1.009	1.009	160.38	80.3	0.954	
31 13C-1,2,3,7,8,9-HxCDF	3.04e5	0.50	NO	0.860	10.017	35.558	35.57	1.035	1.036	148.69	74.5	1.13	

Page 1 of 2

Quantify Sam Vista Analytica	ple Summary Report Laboratory	MassLynx 4.1 SCN815
Dataset:	U:\VG12.PRO\Results\2006	28R1\200628R1-10.qld
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	32 13C-1,2,3,4,6,7,8-HpCDF	2.83e5	0.42	NO	0.774	10.017	37.307	37.35	1.086	1.087	153.65	77.0	0.924	
	33 13C-1,2,3,4,7,8,9-HpCDF	1.79e5	0.42	NO	0.521	10.017	39.336	39.30	1.145	1.144	144.51	72.4	1.37	
	34 13C-OCDF	4.32e5	0.87	NO	0.746	10.017	41.933	41.95	1.221	1.221	243.59	61.0	0.749	
	35 37CI-2,3,7,8-TCDD	1.70e5			1.04	10.017	26.522	26.50	1.028	1.027	61.266	76.7	0.127	
the second second	36 13C-1,2,3,4-TCDD	5.33e5	0.78	NO	1.00	10.017	25.890	25.81	1.000	1.000	199.67	100	0.412	
	37 13C-1,2,3,4-TCDF	7.97e5	0.79	NO	1.00	10.017	24.360	24.12	1.000	1.000	199.67	100	0.526	
	38 13C-1,2,3,4,6,9-HxCDF	4.75e5	0.51	NO	1.00	10.017	34.420	34.35	1.000	1.000	199.67	100	0.974	
	39 Total Tetra-Dioxins				0.888	10.017	24.620		0.000				0.0887	
	40 Total Penta-Dioxins				0.908	10.017	29.960		0.000				0.0732	
	41 Total Hexa-Dioxins				0.892	10.017	33.635		0.000		4.2978		0.221	4.30
	42 Total Hepta-Dioxins				0.864	10.017	37.640		0.000		38.999		0.490	39.0
	43 Total Tetra-Furans				0.751	10.017	23.610		0.000		1.4623		0.120	1.46
	44 1st Func. Penta-Furans				0.893	10.017	27.580		0.000		0.95916		0.0414	0.959
1. 19 M	45 Total Penta-Furans				0.893	10.017	29.275		0.000		3.2334		0.123	3.23
	46 Total Hexa-Furans				0.934	10.017	33.555		0.000		27.360		0.281	27.4
	47 Total Hepta-Furans				0.873	10.017	37.835		0.000		20.175		0.378	20.2

#### Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-10.qld

Last Altered: Monday, July 06, 2020 2:48:01 PM Pacific Daylight Time Printed: Monday, July 06, 2020 3:00:18 PM 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

Name: 200628R1\_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522

#### Tetra-Dioxins

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#### Penta-Dioxins

mit Height m2 Height m2 Resp m2 Resp RA my Resp

#### Hexa-Dioxins

Total Hexa-Dioxins Total Hexa-Dioxins 1,2,3,6,7,8-HxCDD		HOUR	fit Height	mi Fiest	m2 tot			Tr. Sector Sala			
Total Hexa-Dioxins	33.33	2.946e4	2.492e4	1.568e3	1.440e3	1.09	NO	3.008e3	1.9926	1.9930	0.221
Total Hexa-Dioxins	34.15	2.152e4	1.624e4	1.594e3	1.204e3	1.33	NO	2.798e3	1.8532	1.8530	0.221
1,2,3,6,7,8-HxCDD	34.94	5.571e3	4.009e3	4.374e2	3.463e2	1.26	NO	7.837e2	0.45197	0.45200	0.197

## Hepta-Dioxins

Total Hepta-Dioxins 1,2,3,4,6,7,8-HpCDD				m Reep	nia Real			an Sirin an a		Contraction in	an a star
Total Hepta-Dioxins	37.76	1.189e5	1.262e5	1.1 <b>64e</b> 4	1.104e4	1.05	NO	2.268e4	22.410	22.410	0.490
1,2,3,4,6,7,8-HpCDD	38.78	9.827e4	9.475e4	8.155e3	8.632e3	0.94	NO	1.679e4	16.590	16.590	0.490

#### Tetra-Furans

Total Tetra-Furans		NI Height	#2 Height	mrt Resp	m2 Resp	RAS		al Ali and the state	1		1993 (A. 1997) 1993 (A. 1997) 1994 (A. 1997)
Total Tetra-Furans	21.47	1.985e3	3.022e3	2.116e2	2.763e2	0.77	NO	4.880e2	0.25899	0.25900	0.120
Total Tetra-Furans	22.44	2.739e3	4.464e3	2.047e2	2.935e2	0.70	NO	4.983e2	0.26446	0.26400	0.120
Total Tetra-Furans	24.66	4.650e3	6.491e3	4.145e2	5.096e2	0.81	NO	9.240e2	0.49041	0.49000	0.120
Total Tetra-Furans Total Tetra-Furans 2,3,7,8-TCDF	25.60	5.866e3	6.401e3	3.642e2	4.807e2	0.76	NO	8.449e2	0.44843	0.44800	0.120

#### Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-10.qld

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Printed:	Monday, July 06, 2020 3:00:18 PM Pacific Daylight Time

Name: 200628R1\_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522

Penta-Furans function 1

		Hereit	The second				. A2	een operationen Verstaanse statue van d	a de secondo	Commentary	
1st Func. Penta-Furans	27.59	2.363e4	1.561e4	1.366e3	9.954e2	1.37	NO	2.361e3	0.95916	0.95900	0.0414

Penta-Furans

		ni Heigh	M2 Helph	m1 Resp	ma Resp			P. F	a state a	den specific A	A.A.S. to
Total Penta-Furans	29.19	1.689e4	1.332e4	1.163e3	8.163e2	1.42	NO	1.979e3	0.80399	0.80400	0.123
Total Penta-Furans	29.76	3.824e3	4.407e3	3.095e2	2.323e2	1.33	NO	5.418e2	0.22008	0.22000	0.123
1,2,3,7,8-PeCDF	30.17	3.460e4	2.187e4	2.118e3	1.208e3	1.75	NO	3.326e3	1.3286	1.3290	0.127
Total Penta-Furans	30.44	7.269e3	4.739e3	4.118e2	2.950e2	1.40	NO	7.068e2	0.28711	0.28700	0.123
2,3,4,7,8-PeCDF	31.16	1.482e4	1.339e4	6.999e2	5.005e2	1.40	NO	1.200e3	0.47363	0.47400	0.113
Total Penta-Furans	31.19	7.082e3	6.522e3	1.741e2	1.214e2	1.43	NO	2.955e2	0.12005	0.12000	0.123

## Hexa-Furans

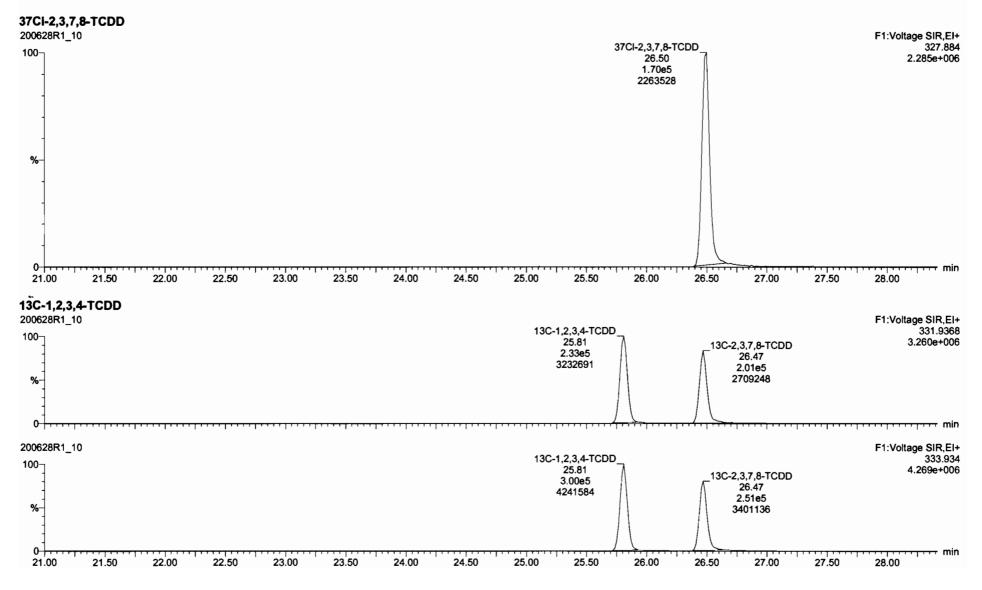
			AT Height	m2 Height	mil Rep.	m2.Resp.	154					
T 🕅 🖓 🖓 T	otal Hexa-Furans	32.79	9.491e3	5.829e3	3.753e2	3.174e2	1.18	NO	6.927e2	0.39661	0.39700	0.281
Т	otal Hexa-Furans	32.95	3.013e4	2.454e4	1.667e3	1.267e3	1.32	NO	2.934e3	1.6797	1.6800	0.281
Т	otal Hexa-Furans	33.49	2.879e4	1.957e4	1.382e3	1.080e3	1.28	NO	2.462e3	1.4095	1.4090	0.281
1	,2,3,4,7,8-HxCDF	33.96	2.408e5	2.052e5	1.432e4	1.178e4	1.22	NO	2.610e4	16.363	16.363	0.262
1	,2,3,6,7,8-HxCDF	34.08	8.604e4	7.718e4	6.240e3	5.194e3	1.20	NO	1.143e4	5.8385	5.8390	0.233
2	,3,4,6,7,8-HxCDF	34.68	1.253e4	1.121e4	8.654e2	7.272e2	1.19	NO	1.593e3	0.87356	0.87400	0.271
1	,2,3,7,8, <b>9-H</b> xCDF	35.61	8.301e3	6.294e3	3.574e2	3.006e2	1.19	NO	6.579e2	0.49648	0.49600	0.450
T	otal Hexa-Furans	35.63	9.650e3	5.752e3	3.053e2	2.226e2	1.37	NO	5.279e2	0.30225	0.30200	0.281

Hepta-Furans

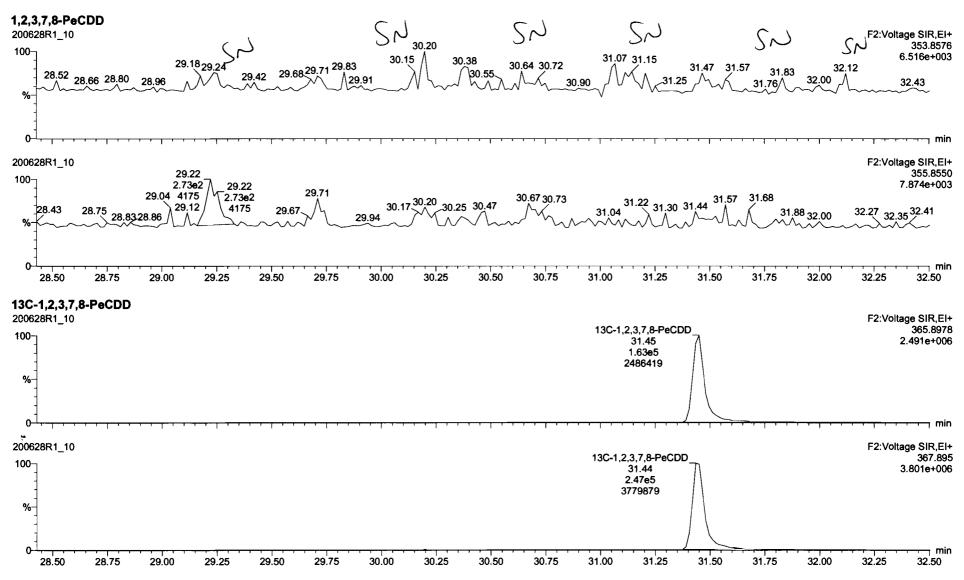
1,2,3,4,6,7,8-HpCDF total Hepta-Furans 1,2,3,4,7,8,9-HpCDF		nit Height	m2 fillight	mi Reep	In 2 Rept			a line of the	and the second	. Antipelie	1. S. S.
1,2,3,4,6,7,8-HpCDF	37.37	8.624e4	9.237e4	7.58 <del>9e</del> 3	7.365e3	1.03	NO	1.49 <b>5e</b> 4	12.082	12.082	0.323
Total Hepta-Furans	37.97	2.950e4	3.132e4	2.670e3	2.887e3	0.93	NO	5.557e3	5.4994	5.4990	0.378
1,2,3,4,7,8,9-HpCDF	39.31	1.825e4	1.451e4	1.152e3	1.204e3	0.96	NO	2.356e3	2.5943	2.5940	0.402

-	n <b>ple Report</b> al Laboratory	MassLynx 4.1 SCI	N815				Page 105 of 1
ataset:	Untitled						
ast Altered: rinted:		29, 2020 06:52:07 Pa 29, 2020 06:58:35 Pa					
ame: 20062	8R1 10. Date: 28	3-Jun-2020. Time: 17	7:21:16, ID: 2001155-03 PDI	-175SC-A-01-02-200522 11.	03. Description	: PDI-175SC-A-01-0	2-200522
3,7,8-TCDD	)		~ .				
0628R1_10		SN	SrJ	SN		SAT SN	SN F1:Voltage SIR,E 319.89
21.29 %	21.74 22.08 21 21.39 21.39	2.34 22.52 22.89 <sup>2</sup>	SN 24.10 3.0923.40 23.49 23.82 MM M M M M M M M M M M M M M	24.51.24.57 25.11 <sup>25.38</sup> 25.6; MmmmMmMMM	2 25.8426.21 26.30	126.56 126.83 26.89 27.01 27	7.38 27.44 <sup>27.71</sup> 28.07 28.19
0++++++++++++++++++++++++++++++++++++++		• • • • • • • • • • • • • • • • • • • •					n
0628R1_10					26.48	26.48	F1:Voltage SIR, 321.8
-					2.61e2 5255	2.61e2 5255	9.051e+0
21 30			24.30	24.64 24.79	25.80 25.94 26.20	26.80	27.46 27.65
 	21.69.21.77 22.1	4 22.41 22.49 22.73 2 22.50 23.00	24.30 23.37 23.48 23.8324.04 23.50 24.00	24.64 24.79 25.41.25.47 24.50 25.00 25.50	25.80 25.94 26.20	26.50 27.00	27.46 27.65 28.14 28.23
0 21.00 <b>3C-2,3,7,8-1</b>	21.50 22.00	• • • • • • • • • • • • • • • • • • • •	*****		25.80 25.94 26.20	<u></u>	
0 21.00 <b>3C-2,3,7,8-1</b> 00628R1_10	21.50 22.00	• • • • • • • • • • • • • • • • • • • •	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD	25.80 25.94 26.20	26.50 27.00	7.50 28.00 F1:Voltage SIR,I 331.93
0 21.00 <b>3C-2,3,7,8-1</b> 00628R1_10	21.50 22.00	• • • • • • • • • • • • • • • • • • • •	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81 2.33e5	25.80 25.94 26.20	26.50 27.00 13C-2,3,7,8-TCDD √ 26.47	77.50 28.00 F1:Voltage SIR,J 331.93
0 21.00 <b>3C-2,3,7,8-1</b> 00628R1_10	21.50 22.00	• • • • • • • • • • • • • • • • • • • •	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81	25.80 25.94 26.20	26.96 _26.50 27.00 	77.50 28.00 F1:Voltage SIR,J 331.93
<b>3C-2,3,7,8-1</b> 00628R1_10	21.50 22.00	****	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81 2.33e5	25.80 25.94 26.20	26.50 27.00 13C-2,3,7,8-TCDD	7.50 28.00 F1:Voltage SIR, 331.93
<b>3C-2,3,7,8-1</b> 00628R1_10	21.50 22.00	****	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81 2.33e5	25.80 25.94 26.20	26.50 27.00 13C-2,3,7,8-TCDD	7.50 28.00 F1:Voltage SIR, 331.93
0 21.00 3 <b>C-2,3,7,8-1</b> 00628R1_10	21.50 22.00	****	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81 2.33e5	25.80 25.94 26.20	26.50 27.00 13C-2,3,7,8-TCDD	<pre>////////////////////////////////////</pre>
<b>3C-2,3,7,8-1</b> 21.00 <b>3C-2,3,7,8-1</b> 20628R1_10	21.50 22.00	****	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81 2.33e5 3232691	25.80 25.94 26.20	26.50 27.00 13C-2,3,7,8-TCDD 26.47 2.01e5 2709248	<pre>V ************************************</pre>
0 21.00 3 <b>C-2,3,7,8-1</b> 00628R1_10 % 0	21.50 22.00	****	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81 2.33e5 3232691 13C-1,2,3,4-TCD 25.81 3.00e5	25.80 25.94 26.20	26.96 13C-2,3,7,8-TCDD 26.47 2.01e5 2709248 13C-2,3,7,8-TCDD 13C-2,3,7,8-TCDD 26.47	<pre>////////////////////////////////////</pre>
0 21.00 3 <b>C-2,3,7,8-1</b> 00628R1_10 % 0	21.50 22.00	****	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81 2.33e5 3232691 	25.80 25.94 26.20	26.50 27.00 13C-2,3,7,8-TCDD 26.50 27.00 13C-2,3,7,8-TCDD 2709248	<pre>////////////////////////////////////</pre>
0 21.00 3 <b>C-2,3,7,8-1</b> 00628R1_10 0 00628R1_10	21.50 22.00	****	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81 2.33e5 3232691 13C-1,2,3,4-TCD 25.81 3.00e5	25.80 25.94 26.20	26.50 27.00 13C-2,3,7,8-TCDD 26.47 2.01e5 2709248 13C-2,3,7,8-TCDD 13C-2,3,7,8-TCDD 26.47 2.51e5	·········
0 21.00 3 <b>C-2,3,7,8-1</b> 00628R1_10 0 00628R1_10	21.50 22.00	****	*****	24.50 25.00 25.50 13C-1,2,3,4-TCD 25.81 2.33e5 3232691 13C-1,2,3,4-TCD 25.81 3.00e5	25.80 25.94 26.20	26.50 27.00 13C-2,3,7,8-TCDD 26.47 2.01e5 2709248 13C-2,3,7,8-TCDD 13C-2,3,7,8-TCDD 26.47 2.51e5	У ч./

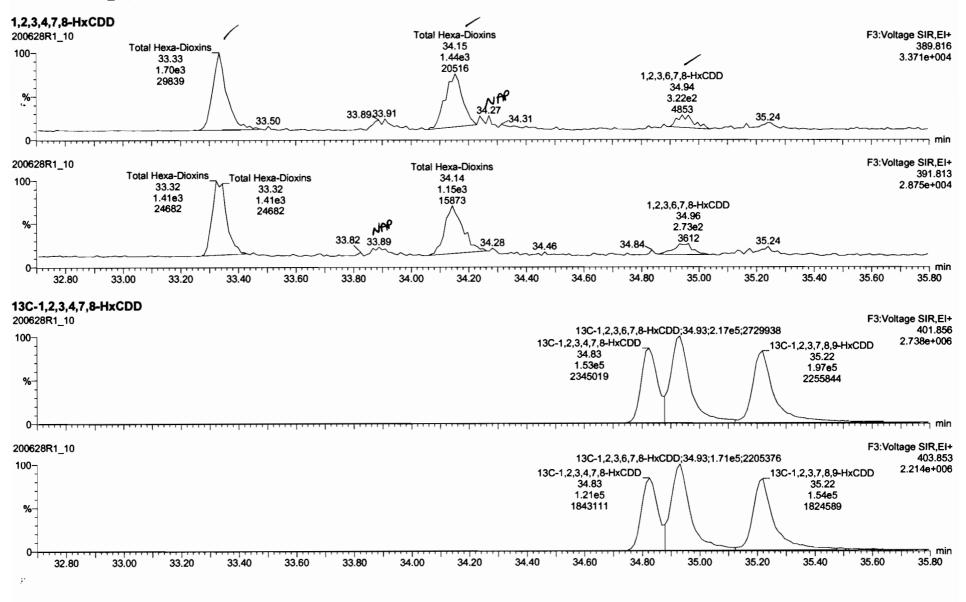
Quantify Sam Vista Analytica	· · ·	Page 106 of 182
Dataset:	Untitled	
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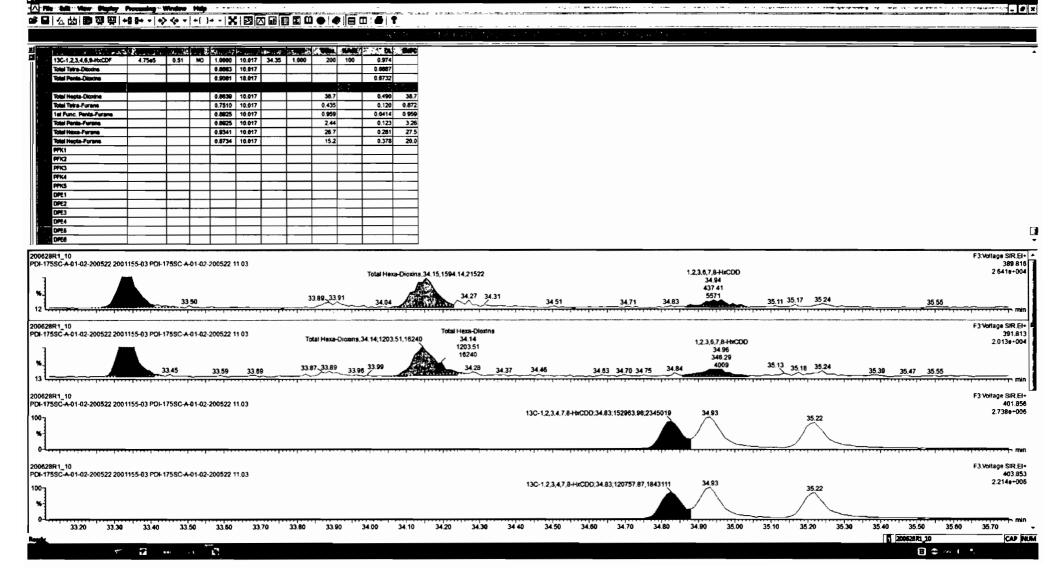


<b>Quantify San</b> Vista Analytica		Page 107 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacific Daylight Time Monday, June 29, 2020 06:58:35 Pacific Daylight Time	
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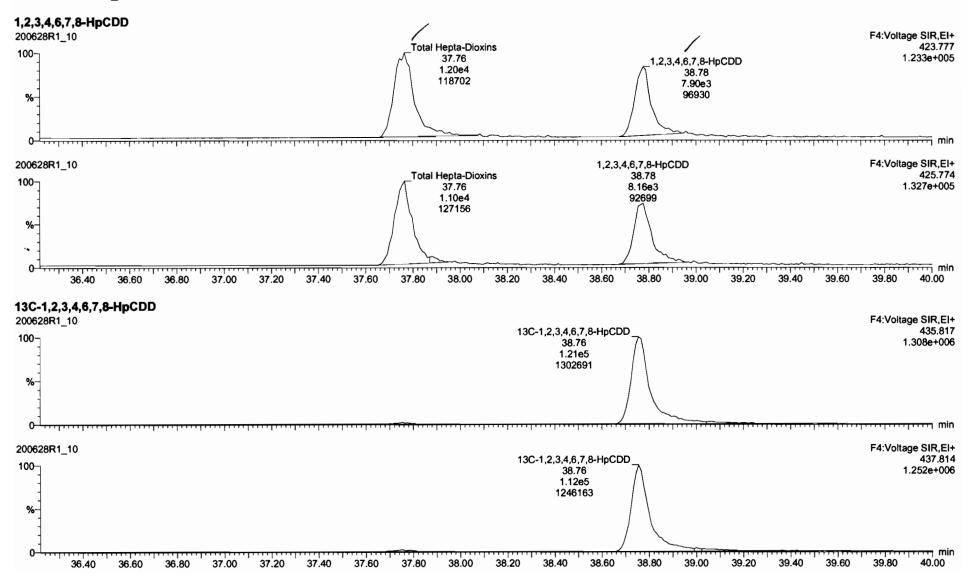


Quantify Sam Vista Analytica		Page 108 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacific Daylight Time Monday, June 29, 2020 06:58:35 Pacific Daylight Time	

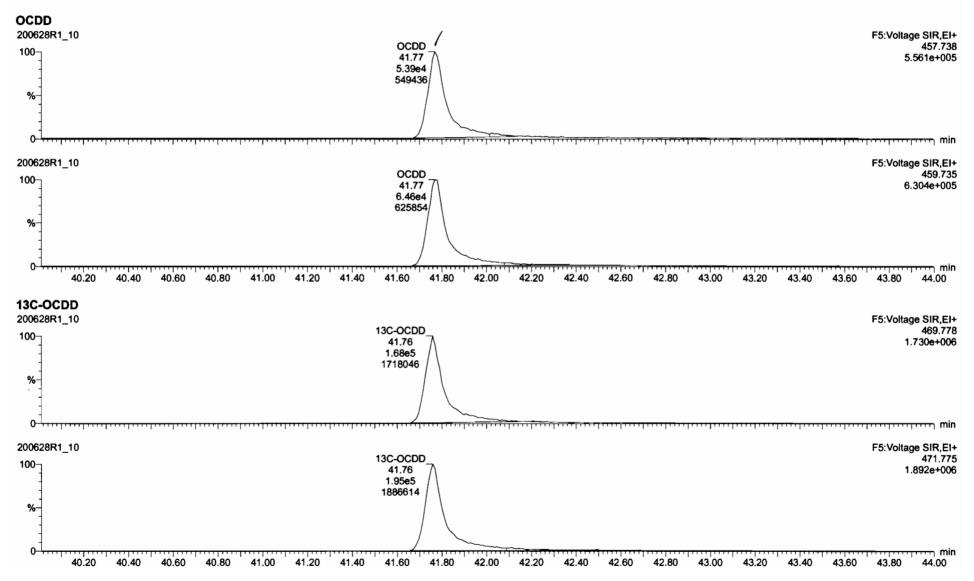


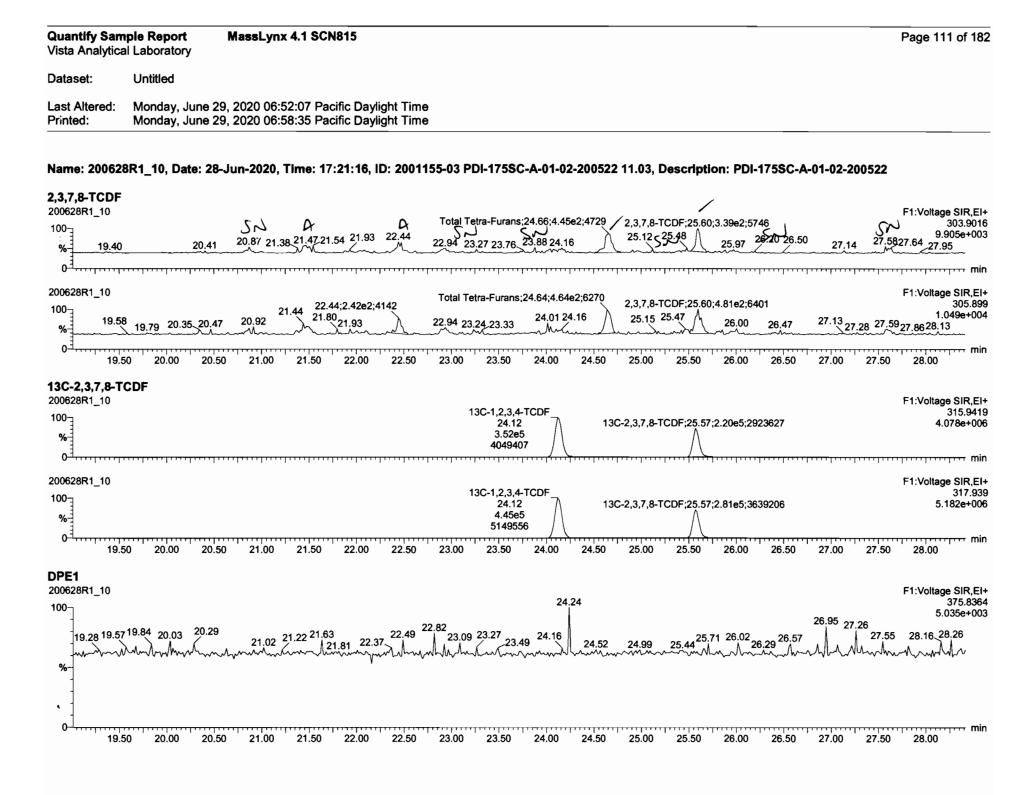


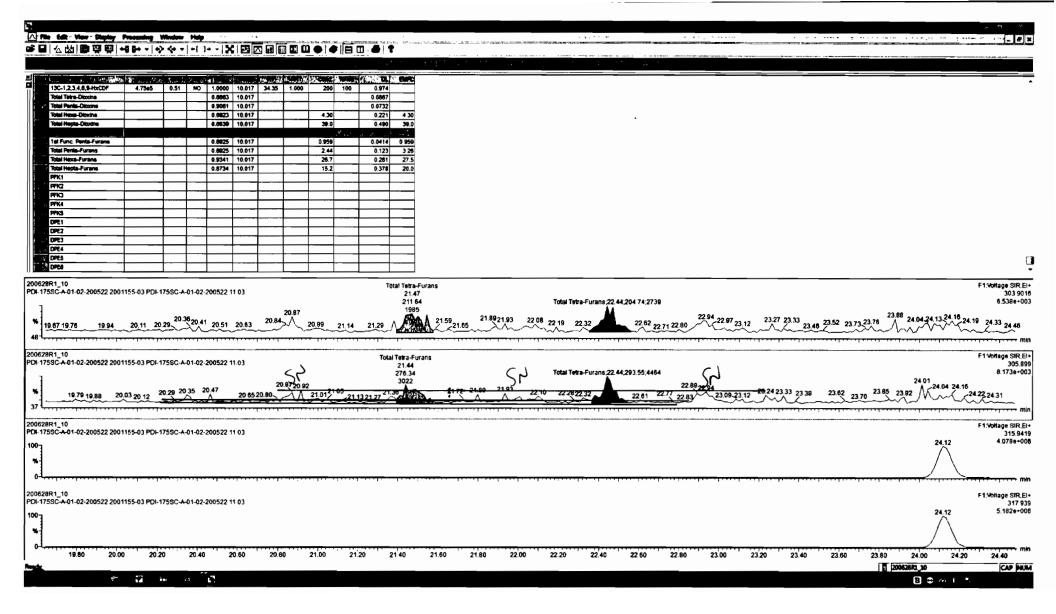
Quantify Sam Vista Analytica		Page 109 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacific Daylight Time Monday, June 29, 2020 06:58:35 Pacific Daylight Time	

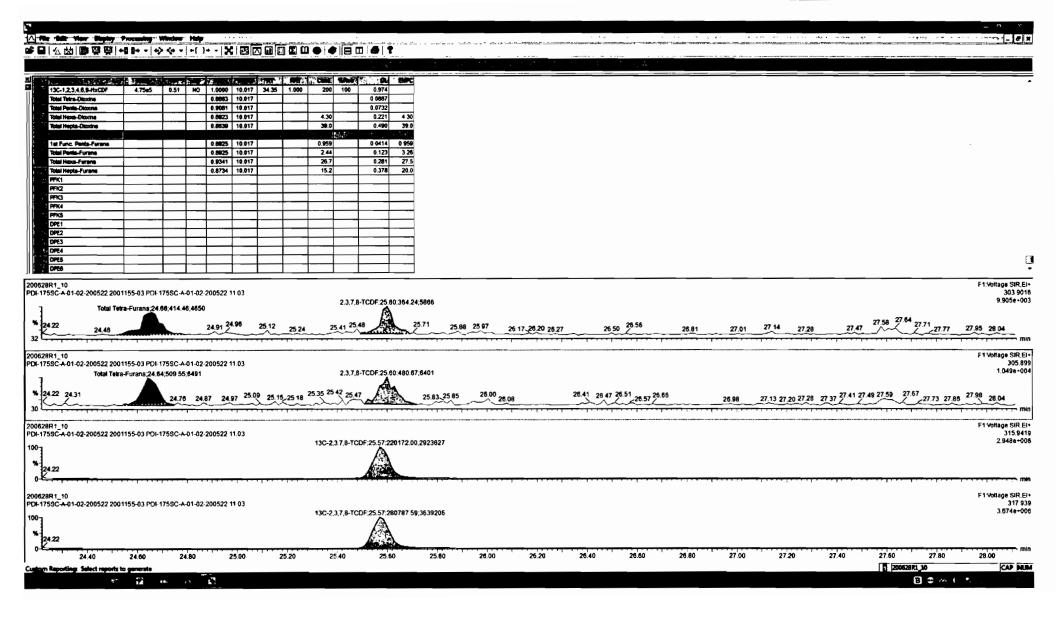


Quantify Sam Vista Analytica		Page 110 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacific Daylight Time Monday, June 29, 2020 06:58:35 Pacific Daylight Time	

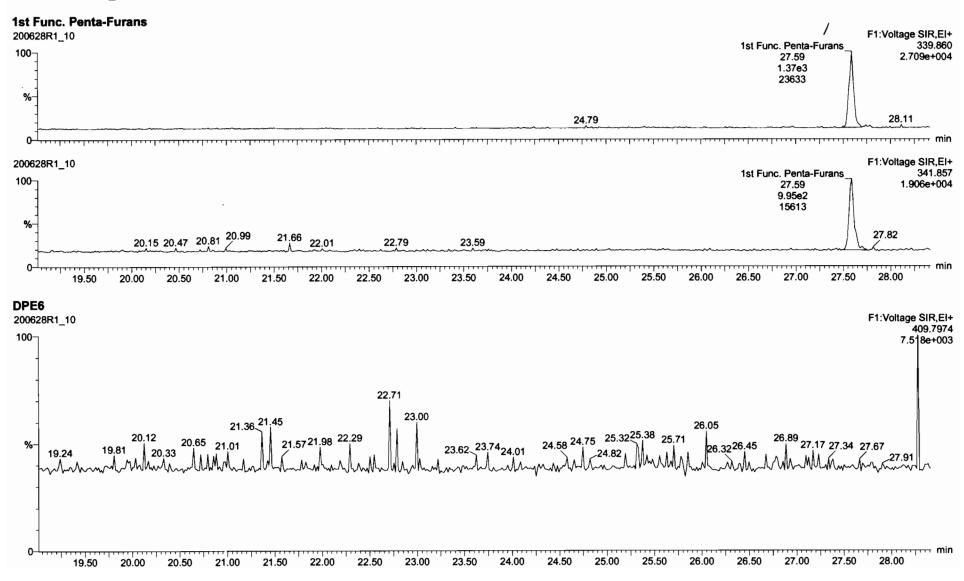




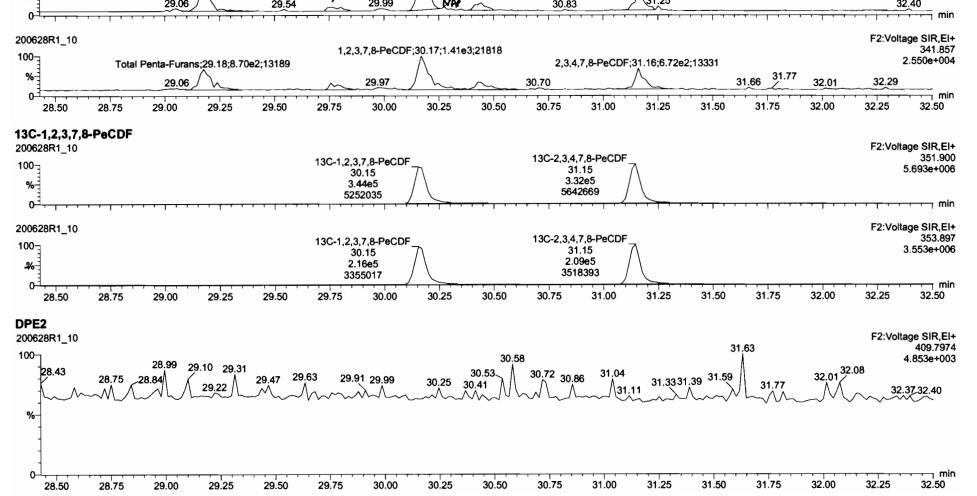




Quantify Sam Vista Analytica		MassLynx 4.1 SCN815	Page 112 of 182
Dataset:	Untitled		
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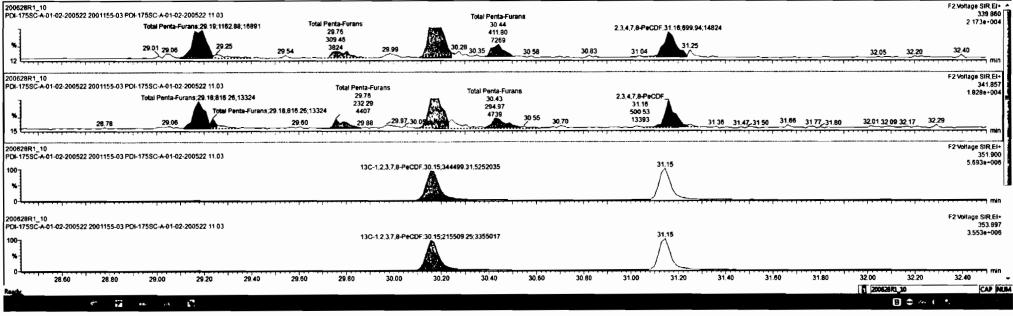


Quantify Sam Vista Analytica	• • •	15		Page 113 of 182
Dataset:	Untitled			
Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacifi Monday, June 29, 2020 06:58:35 Pacifi			
		1:16, ID: 2001155-03 PDI-175SC-A-01	-02-200522 11.03, Description: PDI-175SC-A-01-	-02-200522
<b>1,2,3,7,8-PeC</b> 200628R1_10	DF	/		F2:Voltage SIR,EI
100-	/	1,2,3,7,8-PeCDF;30.17;1.97e3;33601	51	339.86
-	Total Penta-Furans;29.19;1.26e3;16660	/ 20.28	2,3,4,7,8-PeCDF;31.16;8.37e2;14580	3.835e+00
% <del>-</del>	29.06 / 29.54	29.99	30.83 31.25	32 40



#### Work Order 2001155

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13C-1.2,3,4.6,9-HxCDF	4.7565	0.51	₽	1.0000	10.017	34.35	1.000	200	100	0.974	
Total Tetra-Dixxine				0.8683	10.017					0.6687	
Total Penis-Ditoxins				0.9061	10.017		_			0 0732	
Total Have-Ditxine				0.6923	10.017			4.30		0.221	4 30
Total Hepta-Dicxins				0.8639	10.017			39.0		0.490	39.0
Total Tetra-Furana				0.7510	10.017			1.46	_	0.120	1.46
1st Func. Penta-Furans				0.8825	10.017			0.959		0.0414	0.959
											*
Total Haxa-Farana				0.9341	10.017			267		0.281	27.5
Total Hepta-Furans				0.8734	10.017			15.2		0.378	20.0
PFK1										_	
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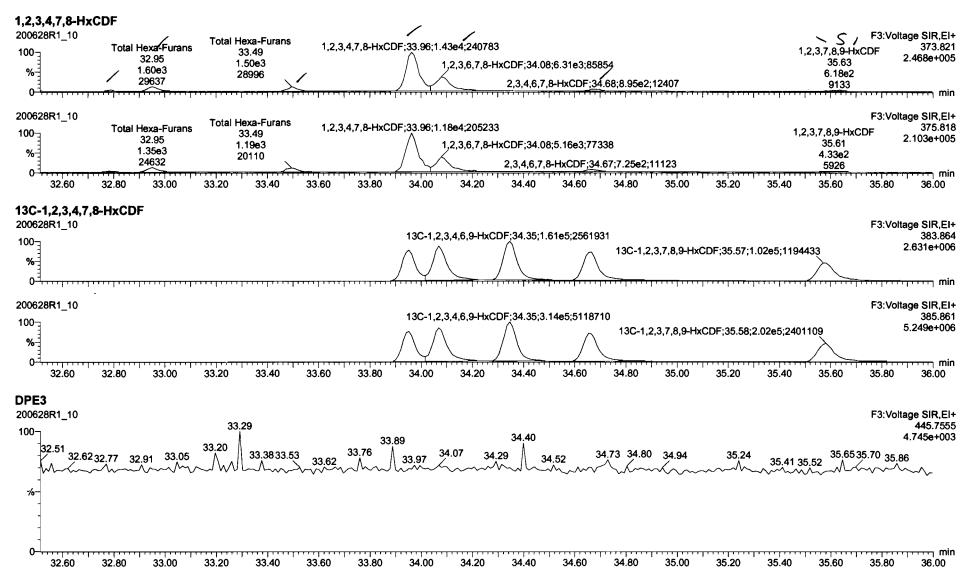
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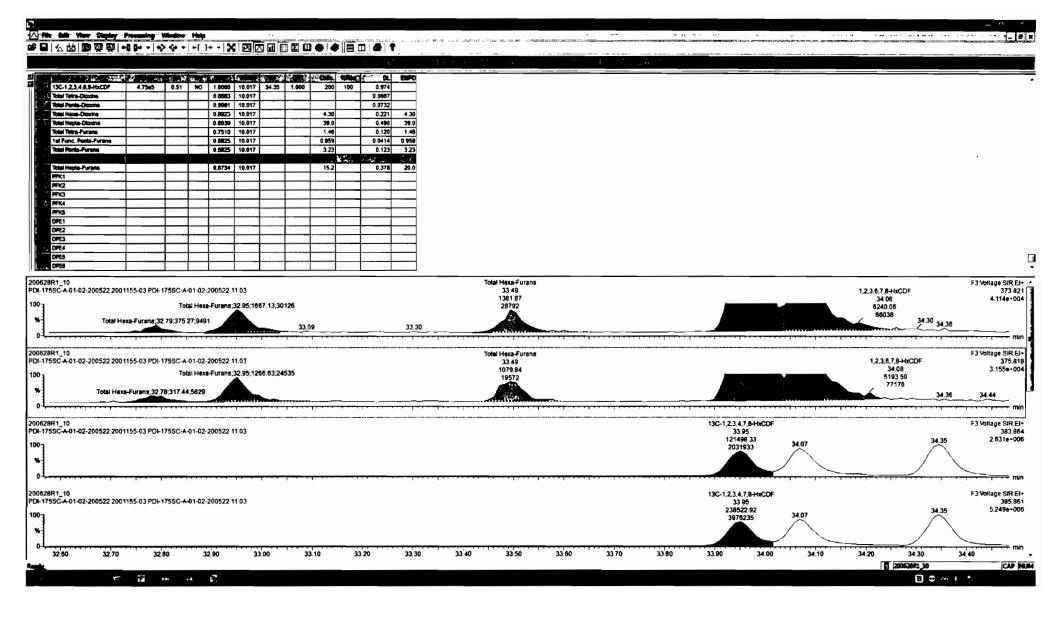
**16**<sup>1</sup>**...** 

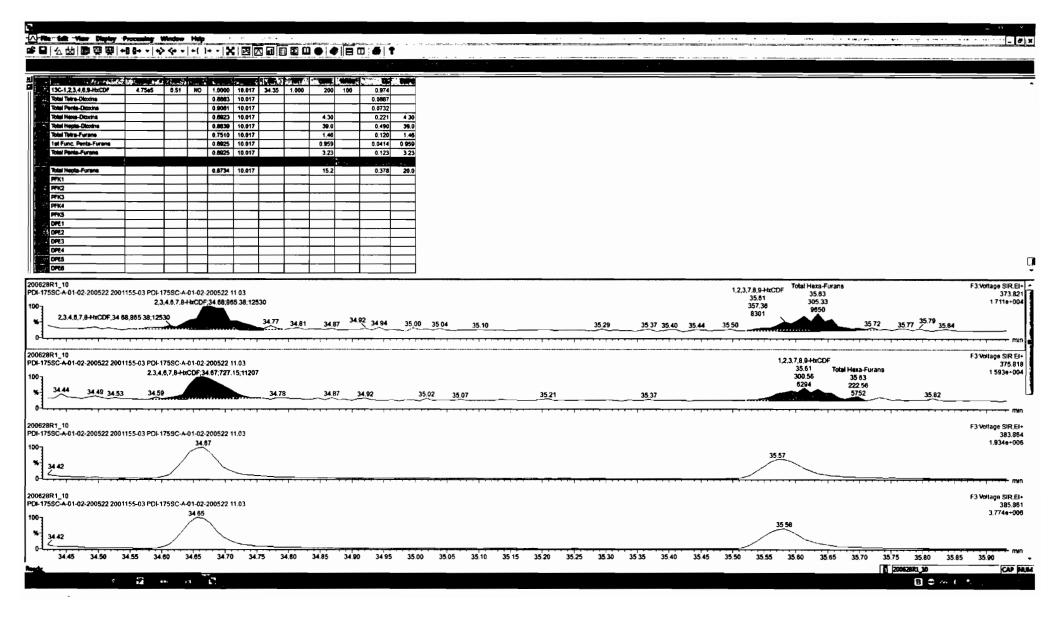
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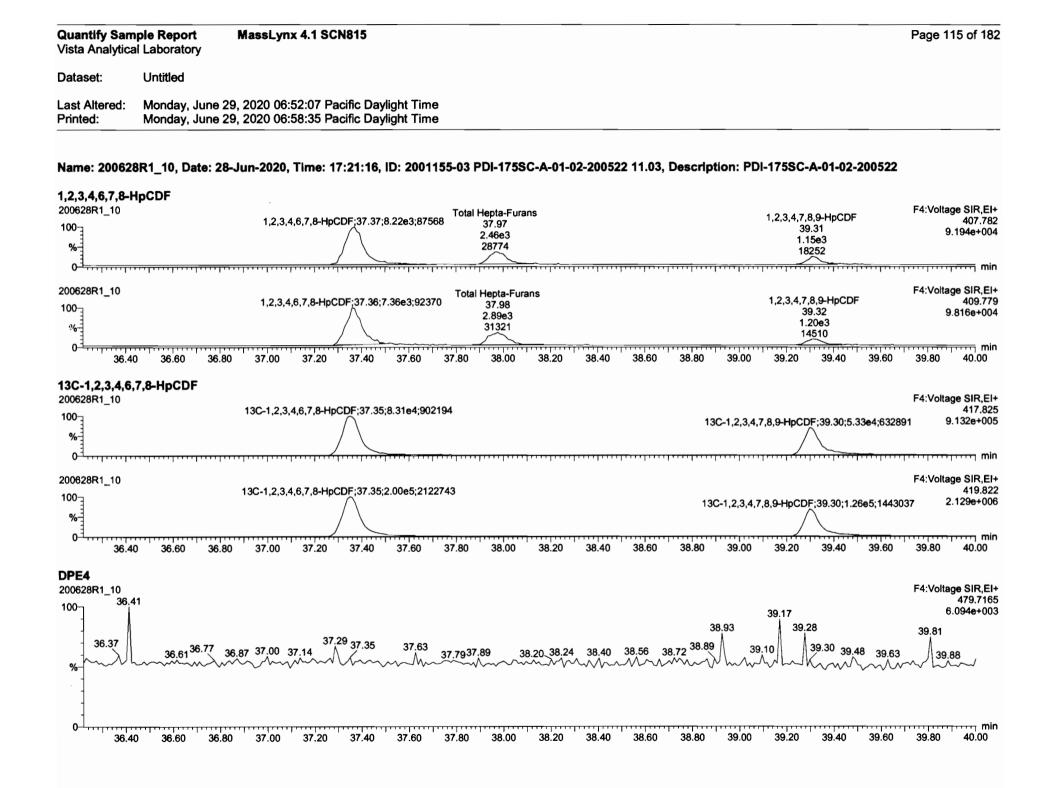
# Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory Image: Comparison of 
Dataset: Untitled

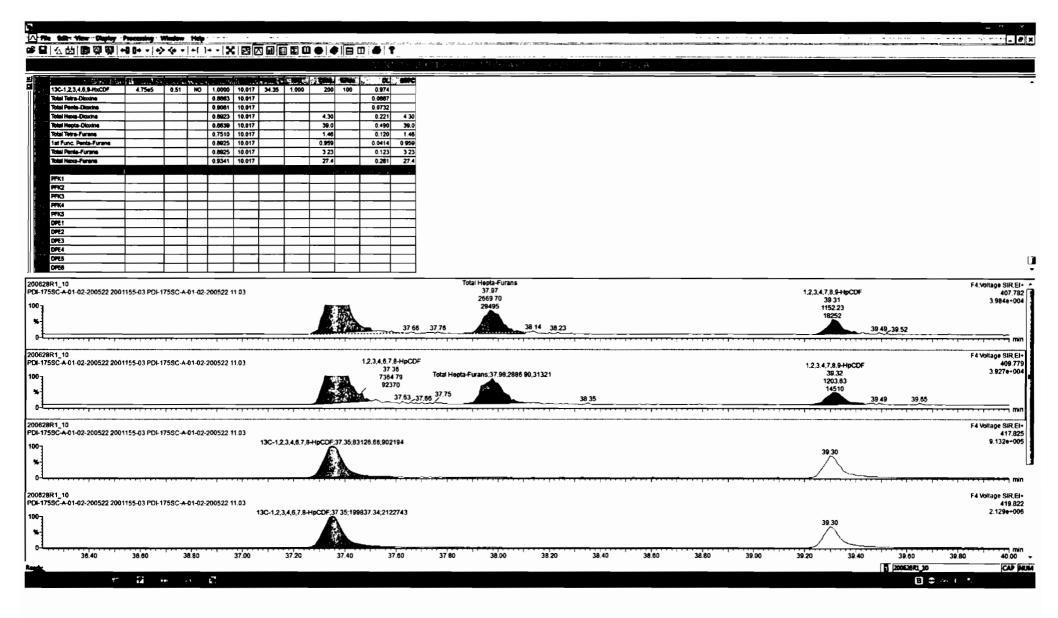
Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time



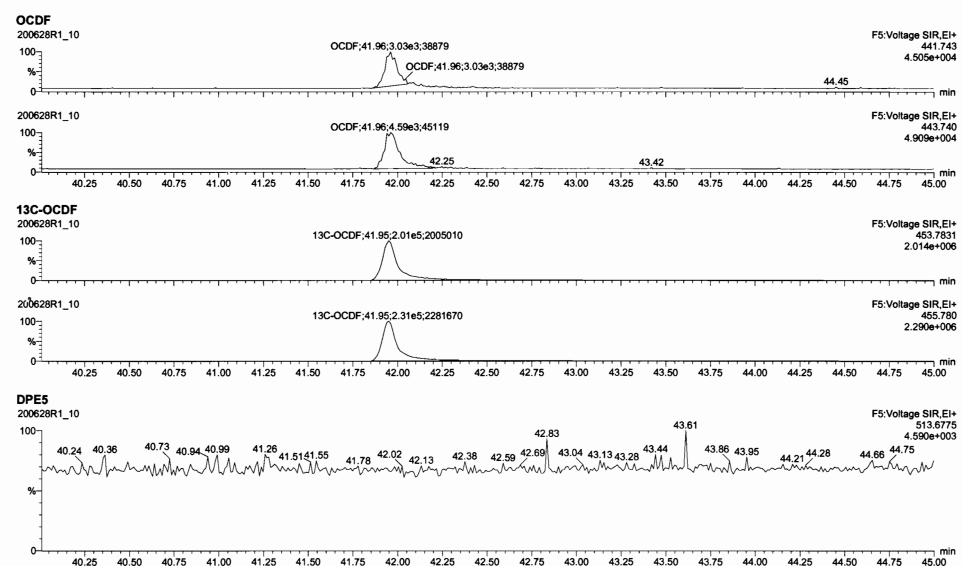








Quantify Sam Vista Analytica		MassLynx 4.1 SCN815	Page 116 of 182
Dataset:	Untitled		
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2,3,7,8-TCDD 1,2,3,7,8-PeCDD		+		0.8963					-	0.146															Ł
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1,2,3,6,7,8-HxC00	5.9542	1.18				34.94	1.000	0.343		0.197	0 343														
1.2.3.7.8.9-HxCOD			HO	0.8889	10.017	7				0.241															
1,2,3,4,6,7,8-HpCD0		0.97		0.8639			1.001	15.9		0.490	15.9														
0000	1.19e5	0.84		0.9136	_	_	1.000	142		1.13	142														
2,3,7,8-TCDF	8.2042	0.71	_	0.7510	_		1.001	0.435		0.120	0.435														
1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF	3.38e3 1.51e3	1.40	_	0.8625	10.017		1.000	1.35		0.127	1 35 0.543														
1.2.3.4.7.8-tbcDF	2.61e4	1.22		0.8845				16.4		0.262	16.4														
1.2.3.6.7.8-HxCDF	1.15e4	1.22				34.08		5.86		0.233	5.86														
2.3,4,6,7,8-HxCDF	1.62e3	1.23	_		_	34.68		0.889		0.271	0.889														
1,2,3,7,8,9-HxCDF	1.05e3	1.43		0.8707				0.794		0.450	0.733														
1,2,3,4,6,7,8-HpCD		1.12		0.8734			1.001	12.6		0.323	12.6														
1.2,3,4,7,8,9-HpCD	2.36e3	0.96	NO	1.0128	10.017	39.31	1.000	2.59		0.402	2.59														
			4.0	1 4 6 6 6 1	10.047	24.43	4 000	1 1 1	22.4	0.357	1.121														
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13C-1,2,3,4,7,8 Hot		1.27				34.83			74.0	0.732															
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0-1		*****		***	<del>.,,</del>	1	· · · · · · · · · · · · · · · · · · ·		<del>.</del>	<del>,,,,,,,</del> ,					<del>,,</del>	******	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	····		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· <del>, , , , , , , , , , , , , , , , , , ,</del>	••••••••••••••••••••••••••••••••••••••
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40.20	40.40 40	.60	40.8	0 4	41.00	41.2	0	41.40	41.60	41	80	42.00	42.20	42.40	42.60	42.80	43.00	43.20	43.40	43.60	43.80	44 00	44.20	44.40 44.60	44.80 45.00
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Inted: Monday, June 29, 2020 06:58:35 Pacific Daylight Time Imme: 200628R1_10, Date: 28-Jun-2020, Time: 17:21:16, ID: 2001155-03 PDI-175SC-A-01-02-200522 11.03, Description: PDI-175SC-A-01-02-200522 K1 SK1 K1 K1 K1 K1 K1 K2 K2 K2 K2 K2 K2 K2 K2 K2 K2 K2 K3 K2 K3 K2 K3 K2 K3 K2 K3 K2 K3 K2 K3 K3 K3 K3 K3 K3 K3 K4	itaset:	Untitled										
$ \frac{10}{19.772440} = \frac{21}{19.727140340} = \frac{21}{12.72140341} = \frac{21}{19.342} = \frac{21}{21.83} = \frac{22.04}{22.52} = \frac{24.03.3}{12.64.212460} = \frac{24.6124.67}{25.666.43631722836} = \frac{25.7}{26.66} = \frac{27.74}{27.78} $												
$ \frac{10}{19.772440} = \frac{21}{19.727140340} = \frac{21}{12.72140341} = \frac{21}{19.342} = \frac{21}{21.83} = \frac{22.04}{22.52} = \frac{24.03.3}{12.64.212460} = \frac{24.6124.67}{25.666.43631722836} = \frac{25.7}{26.66} = \frac{27.74}{27.78} $	,											
$\begin{aligned} \begin{array}{c} & & & & & & & & & & & & & & & & & & &$	me: 20062	8R1_10, Date: 28-	Jun-2020, Time: 1	17:21:16, ID: 20	01155-03 PC	0I-175SC-A-0 <sup>-</sup>	1-02-200522 1 <sup>.</sup>	1.03, Descrip	tion: PDI-1	175SC-A-(	01-02-200522	2
$ \begin{array}{c} 19.767.72463,203768_{20.45} & 21.72,16364(193441_{21.93},22.042,252_{22.86},24.03,31224212460 \\ 19.50 & 20.00 & 20.50 & 21.00 & 21.50 & 22.00 & 22.50 & 23.00 & 23.50 & 24.00 & 24.50 & 25.00 & 25.50 & 26.00 & 26.50 & 27.00 & 27.50 & 28.00 \\ \hline 19.50 & 20.00 & 20.50 & 21.00 & 21.50 & 22.00 & 22.50 & 23.00 & 23.50 & 24.00 & 24.50 & 25.00 & 25.50 & 26.00 & 26.50 & 27.00 & 27.50 & 28.00 \\ \hline 19.50 & 20.01, 7.0224,316047 & 29.18 & 29.34 & 29.48 & 29.67.28.79 & 30.05 & 30.26 & 30.40 & 30.60 & 30.69 & 30.99,31.04 & 31.28 & 31.39 & 31.50 & 31.77 & 31.88.31.92 & 32.34 & 396.5 \\ \hline 19.26 & 20.47, 52.24,316047 & 29.18 & 29.34 & 29.48 & 29.67.28.79 & 30.05 & 30.26 & 30.40 & 30.60 & 30.69 & 30.99,31.04 & 31.28 & 31.50 & 31.77 & 31.88.31.92 & 32.34 & 36.56 \\ \hline 22.60 & 26.75 & 29.00 & 29.25 & 29.50 & 29.75 & 30.00 & 30.25 & 30.50 & 30.75 & 31.00 & 31.25 & 31.50 & 31.75 & 32.00 & 32.26 & 32.5 \\ \hline 22.60 & 26.75 & 29.00 & 29.25 & 29.50 & 29.75 & 30.00 & 30.25 & 30.50 & 30.75 & 31.00 & 31.25 & 31.50 & 31.75 & 32.00 & 32.26 & 32.5 \\ \hline 32.60 & 32.60 & 33.00 & 33.20 & 33.40 & 33.60 & 33.80 & 34.00 & 34.20 & 34.40 & 34.60 & 34.80 & 35.00 & 35.20 & 35.40 & 35.60 & 35.80 & 36.60 \\ \hline 32.60 & 32.60 & 32.80 & 33.00 & 33.20 & 33.40 & 33.60 & 33.80 & 34.00 & 34.20 & 34.40 & 34.60 & 34.80 & 35.00 & 35.20 & 35.40 & 35.60 & 35.80 & 36.60 \\ \hline 32.60 & 32.60 & 35.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 & 38.80 & 38.00 & 39.20 & 39.40 & 39.60 & 39.80 & 40.0 \\ \hline 34.60 & 36.60 & 36.60 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 & 38.40 & 38.60 & 38.80 & 39.00 & 39.20 & 39.40 & 39.60 $												
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$\begin{aligned} & \begin{array}{c} 19.50 & 20.00 & 20.50 & 21.00 & 21.50 & 22.00 & 22.50 & 23.00 & 23.50 & 24.00 & 24.50 & 25.50 & 26.00 & 26.50 & 27.00 & 27.50 & 28.00 \\ \hline \textbf{K2} \\ & \begin{array}{c} 0020871 & 10 \\ 0 & 28.49 & 28.49 & 29.18 & 29.34 & 29.48 & 29.67 & 29.79 & 30.05 & 30.26 & 30.40 & 30.60 & 30.69 & 30.99.31.04 & 31.28 & 31.39 & 31.77 & 31.88 & 31.32 & 32.34 & 30.68 \\ \hline \textbf{K2} \\ & \begin{array}{c} 0 & 28.49 & 28.69 & 28.75 & 29.00 & 29.25 & 29.50 & 29.75 & 30.00 & 30.25 & 30.50 & 30.75 & 31.00 & 31.25 & 31.50 & 31.75 & 32.00 & 32.25 & 32.5 \\ \hline \textbf{K3} \\ \hline \textbf{K4} \\ \hline \textbf{K4} \\ \hline \textbf{K4} \\ \hline \textbf{K4} \\ \hline \textbf{K6} \\ \hline \textbf{K6} \\ \hline \textbf{K5} \\ \hline \textbf{K6} \\ \hline \textbf$		St allows										
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$\begin{array}{c} F4:Voltage SIR \\ F5:Voltage SIR \\$	28.50 <b>FK3</b> 0628R1_10 0		326	33 63			24.55	1.00 31.25			32.00	32.25 32.50 F3:Voltage SIR, 35.74 380.9
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28.50 <b>K3</b> 0628R1_10 0 0 0 0 0 0 0 0 0 0 0 0 0	32.96;7.10e5;3176;	326 33.37	33.62 33.72	33.93	34.26	34.44 34.55		35.05	35.31		32.25 32.5( F3:Voltage SIR, 35.74 380.9 8:430e+(
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28.50 <b>K3</b> 0628R1_10 0 	32.96;7.10e5;3176;	326 33.37	33.62 33.72	33.93	34.26	34.44 34.55		35.05	35.31		32.25 32.5( F3:Voltage SIR, 35.74 380.9 8:430e+(
$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	28.50 <b>K3</b> 0628R1_10 0 	32.96;7.10e5;3176; 32.80 33.00	326 33.37 33.20 33.40	33.62 33.72 33.60 33.8	33.93	34.26 ,, 34.20 3.	<u>34.44</u> <u>34.55</u> 4.40 <u>34.60</u> 28.50		35.05	<u>35.31</u> 20 35.	40 35.60	32.25 32.5( F3:Voltage SIR, 35.74 380.9 8:430e+( 35.80 36.0) F4:Voltage SIR,
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	28.50 <b>K3</b> 0628R1_10 0 32.60 <b>K4</b> 0628R1_10 0 32.60 <b>K4</b> 0628R1_10	32.96;7.10e5;3176; 32.80 33.00	326 33.37 33.20 33.40	33.62 33.72 33.60 33.8	33.93 0 34.00	34.26 ,, 34.20 3.	<u>34.44</u> <u>34.55</u> 4.40 <u>34.60</u> 28.50		35.05	<u>35.31</u> 20 35.	40 35.60	32.25 32.5( F3:Voltage SIR, 35.74 380.9 8:430e+( 35.80 36.0) F4:Voltage SIR,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	28.50 <b>FK3</b> 0628R1_10 0 32.60 <b>FK4</b> 0628R1_10 0 36.36	32.96;7.10e5;3176; 32.80 33.00	326 33.37 33.20 33.40	33.62 33.72 33.60 33.8	33.93 0 34.00	34.26 ,, 34.20 3.	<u>34.44</u> <u>34.55</u> 4.40 <u>34.60</u> 28.50		35.05	<u>35.31</u> 20 35.	40 35.60	32.25 32.50 F3:Voltage SIR, 35.74 380.9 8:430e+0 35.80 36.00 F4:Voltage SIR, 55 39.81 430.9 55 39.81 6:474e+0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	28.50 <b>K3</b> 0628R1_10 0 32.60 <b>K4</b> 0628R1_10 0 32.60 <b>K4</b> 0628R1_10	32.96;7.10e5;3176 32.80 33.00 36.66;5.81e5;148970	326 <u>33.37</u> 33.20 33.40 37.10	33.62 33.72 33.60 33.8 37.3537.46	<u>33.93</u> 0 34.00 <u>37.73</u>	34.26 34.20 3 38.00	<u>34.44</u> <u>34.55</u> 4.40 <u>34.60</u> 38.29 <u>38.50</u>	34.80 3	<u>35.05</u> 5.00 35.	<u>35.31</u> 20 35. 39.22 3	40 35.60 39.39 <sup>39.46</sup> 39.5	32.25 32.50 F3:Voltage SIR, 35.74 380.9 8:430e+( 35.80 36.00 F4:Voltage SIR, 55 39.81 430.9 55 39.81 6:474e+(
% 40.05 ·····	28.50 <b>K3</b> 0628R1_10 0 32.60 <b>K4</b> 0628R1_10 0 36.36 <b>K5</b>	32.96;7.10e5;3176 32.80 33.00 36.66;5.81e5;148970 0 36.60 36.80	326 33.37 33.20 33.40 37.10 37.00 37.20	33.62 33.72 33.60 33.80 33.8 37.3537.46 37.40 37.60	<u>33.93</u> 0 34.00 <u>37.73</u>	34.26 34.20 3 38.00	<u>34.44</u> <u>34.55</u> 4.40 <u>34.60</u> 38.29 <u>38.50</u>	34.80 3	<u>35.05</u> 5.00 35.	<u>35.31</u> 20 35. 39.22 3	40 35.60 39.39 <sup>39.46</sup> 39.5	32.25 32.50 F3:Voltage SIR, 35.74 380.9 8:430e+( 35.80 36.00 F4:Voltage SIR, 55 39.81 6:474e+( 39.80 40.00
	28.50 <b>K3</b> 0628R1_10 0 32.60 <b>K4</b> 0628R1_10 0 36.36 0 36.4 <b>K5</b> 0628R1_10	32.96;7.10e5;3176 32.80 33.00 36.66;5.81e5;1489709 0 36.60 36.80 40.45	326 33.37 33.20 33.40 37.10 37.00 37.20 41.06 6.75e4	33.62 33.72 33.60 33.8 37.3537.46 37.40 37.60 41.50 5.45e4	<u>33.93</u> 0 34.00 <u>37.73</u> 37.80	34.26 34.20 3 38.00 3 38.00 38.20	34.44 34.55 4.40 34.60 38.29 38.50 0 38.40 34	34.80 3 34.80 3 8.60 38.80	<u>35.05</u> 5.00 35.	<u>35.31</u> 20 35. 39.22 3	40 35.60 39.39 <sup>39.46</sup> 39.5	32.25 32.50 F3:Voltage SIR, 35.74 380.9 8:430e+0 35.80 36.0 F4:Voltage SIR, 430.9 55 39.81 6:474e+0 39.80 40.00 F5:Voltage SIR, 454.9
	28.50 <b>K3</b> 0628R1_10 0 32.60 <b>K4</b> 0628R1_10 0 36.4 <b>K5</b> 0628R1_10 0 36.4 <b>K5</b> 0628R1_10	32.96;7.10e5;31763 32.80 33.00 36.66;5.81e5;1489709 0 36.60 36.80 40.45 6.65e5	326 33.37 33.20 33.40 37.10 37.00 37.20 41.06 6.75e4	33.62 33.72 33.60 33.8 37.3537.46 37.40 37.60 41.50 5.45e4	<u>33.93</u> 0 34.00 <u>37.73</u> 37.80	34.26 34.20 3 38.00 3 38.00 38.20	34.44 34.55 4.40 34.60 38.29 38.50 0 38.40 34	34.80 3 34.80 3 8.60 38.80	35.05 5.00 35. 39.00	35.31 20 35. 39.22 3	40 35.60 39.39 39.46 39.39 39.46 39.40 39.60	32.25 32.50 F3:Voltage SIR, 35.74 380.9 8:430e+0 35.80 36.00 F4:Voltage SIR, 55 39.81 6:474e+0 39.80 40.00 F5:Voltage SIR, 454.9 4.290e+1

Quantify Sam Vista Analytica	ple Summary Report MassLynx 4.1 SCN815	Page 1 of 2
Dataset:	U:\VG12.PRO\Results\200628R1\200628R1-11.qld	
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# Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200628R1\_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

			RA	*ħ/y	RRF	-Wivel	Pred RT	7	PHO RRT	<b>.</b>				and second salars
	1 2,3,7,8-TCDD			NO	0.888	10.070	- 26.501		1.001				0.120	
	2 1,2,3,7,8-PeCDD			NO	0.908	10.070	31.473		1.001				0.0723	
A started	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.070	34.835		1.000				0.122	
	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.070	34.931		1.000				0.119	
	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.070	35.230		1.000				0.148	
	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	10.070	38.778		1.000				0.210	
1.1.1	7 OCDD	5.47e2	0.83	NO	0.914	10.070	41.769	41.77	1.000	1.000	0.60839		0.226	0.608
S the state of the	8 2,3,7,8-TCDF			NO	0.751	10.070	25.612		1.001				0.0795	
A. 1974	9 1,2,3,7,8-PeCDF			NO	0.893	10.070	30.190		1.001				0.0560	
	10 2,3,4,7,8-PeCDF			NO	0.935	10.070	31.177		1.001				0.0516	
	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.070	33.952		1.000				0.0565	
	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.070	34.089		1.000				0.0508	
	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.070	34.700		1.001				0.0533	
and states	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.070	35.581		1.000				0.0871	
	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.070	37.397		1.001				0.0857	
·	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.070	39.309		1.000				0.101	
1.45	17 OCDF			NO	0.806	10.070	41.950		1.000				0.164	
	18 13C-2,3,7,8-TCDD	4.92e5	0.75	NO	1.16	10.070	26.491	26.47	1.026	1.026	166.84	84.0	0.326	
A.	19 13C-1,2,3,7,8-PeCDD	4.29e5	0.61	NO	0.849	10.070	31.674	31.45	1.227	1.219	197.91	99.6	0.780	
	20 13C-1,2,3,4,7,8-HxCDD	2.74e5	1.30	NO	0. <b>779</b>	10.070	34.840	34.83		1.014	150.63	75.8	0.883	
	21 13C-1,2,3,6,7,8-HxCDD	4.19e5	1.37	NO	1.02	10.070	34.954	34.93	1.017	1.017	176.38	88.8	0.677	
	22 13C-1,2,3,7,8,9-HxCDD	3.62e5	1.39	NO	0.903	10.070	35.225	35.22	1.025	1.025	171.80	86.5	0.762	
1	23 13C-1,2,3,4,6,7,8-HpCDD	2.50e5	1.12	NO	0.689	10.070	38.750	38.77	1.128	1.128	155.10	78.1	0.764	
	24 13C-OCDD	3.91e5	0.88	NO	0.652	10.070	41.773	41.77	1.216	1.216	256.83	64.7	1.40	
	25 13C-2,3,7,8-TCDF	5.87e5	0.76	NO	1.06	10.070	25.534	25.59	0.989	0.991	148.32	74.7	0.523	
14 5 4 10 10	26 13C-1,2,3,7,8-PeCDF	5.84e5	1.53	NO	0.838	10.070	30.058	30.17	1.165	1.169	186.49	93.9	1.22	
	27 13C-2,3,4,7,8-PeCDF	5.96e5	1.60	NO	0.817	10.070	31.011	31.15	1.202	1.207	195.42	98.4	1.25	1
	28 13C-1,2,3,4,7,8-HxCDF	3.78e5	0.52	NO	1.01	10.070	33.971	33.95	0.989	0.988	160.54	80.8	1.02	
and she	29 13C-1,2,3,6,7,8-HxCDF	4.69e5	0.49	NO	1.17	10.070	34.095	34.08	0.992	0.992	172.24	86.7	0.881	
A starting of the	30 13C-2,3,4,6,7,8-HxCDF	4.37e5	0.51	NO	1.02	10.070	34.669	34.67	1.009	1.009	183.12	92.2	1.01	
	31 13C-1,2,3,7,8,9-HxCDF	3.43e5	0.50	NO	0.860	10.070	35.569	35.58	1.035	1.036	170.89	86.0	1.20	

Quantify Sam Vista Analytica	ple Summary Report Laboratory	MassLynx 4.1 SCN815
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# Name: 200628R1\_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

Line -			<b>RA</b>		RRF	-	Process.			States.	Sielatel and		Martin and Balance
	32 13C-1,2,3,4,6,7,8-HpCDF	3.09e5	0.43	NO	0.774	10.070	37.317	37.36	1.086	1.087	171.13	86.2	0.947
and the	33 13C-1,2,3,4,7,8,9-HpCDF	1.93e5	0.41	NO	0.521	10.070	39.348	39.31	1.145	1.144	158.28	79.7	1.41
	34 13C-OCDF	4.76e5	0.90	NO	0.746	10.070	41.945	<b>41.95</b>	1.221	1.221	273.39	68.8	0.821
	35 37CI-2,3,7,8-TCDD	2.09e5			1.04	10.070	26.522	26.50	1.028	1.027	79.215	99.7	0.125
ie na the to	36 13C-1,2,3,4-TCDD	5.07e5	0.78	NO	1.00	10.070	25.890	25.81	1.000	1.000	198.61	100	0.377
	37 13C-1,2,3,4-TCDF	7.42e5	0.79	NO	1.00	10.070	24.360	24.13	1.000	1.000	198.61	100	0.554
5.5	38 13C-1,2,3,4,6,9-HxCDF	4.64e5	0.51	NO	1.00	10.070	34.420	34.36	1.000	1.000	198.61	100	1.03
	39 Total Tetra-Dioxins				0.888	10.070	24.620		0.000				0.0823
	40 Total Penta-Dioxins				0.908	10.070	29.960		0.000				0.0314
	41 Total Hexa-Dioxins				0.892	10.070	33.635		0.000				0.0736
	42 Total Hepta-Dioxins				0.864	10.070	37.640		0.000				0.119
	43 Total Tetra-Furans				0.751	10.070	23.610		0.000				0.0356
No. Com	44 1st Func. Penta-Furans				0.893	10.070	27.580		0.000				0.0154
	45 Total Penta-Furans				0.893	10.070	29.275		0.000				0.0289
	46 Total Hexa-Furans				0.934	10.070	33.555		0.000				0.0259
and the second second	47 Total Hepta-Furans				0.873	10.070	37.835		0.000				0.0488

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-11.qld

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#### Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200628R1\_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

Tetra-Dioxins

RT. THE Height In 2 Height m1 Rep. m2 Resp. RA (1998) Base (1998) A CORD. A CORD.

#### Penta-Dioxins

RT mittleight m2 Height m1 Resp m2 Resp RA hivite Resp Some Some Enror

#### Hexa-Dioxins

**Hepta-Dioxins** 

Miner State RT MI Height M2 Height M2 Height AM2 Reight A

#### Tetra-Furans

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**Penta-Furans function 1** 

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Name: 200628R1\_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522

#### Penta-Furans

#### Hexa-Furans

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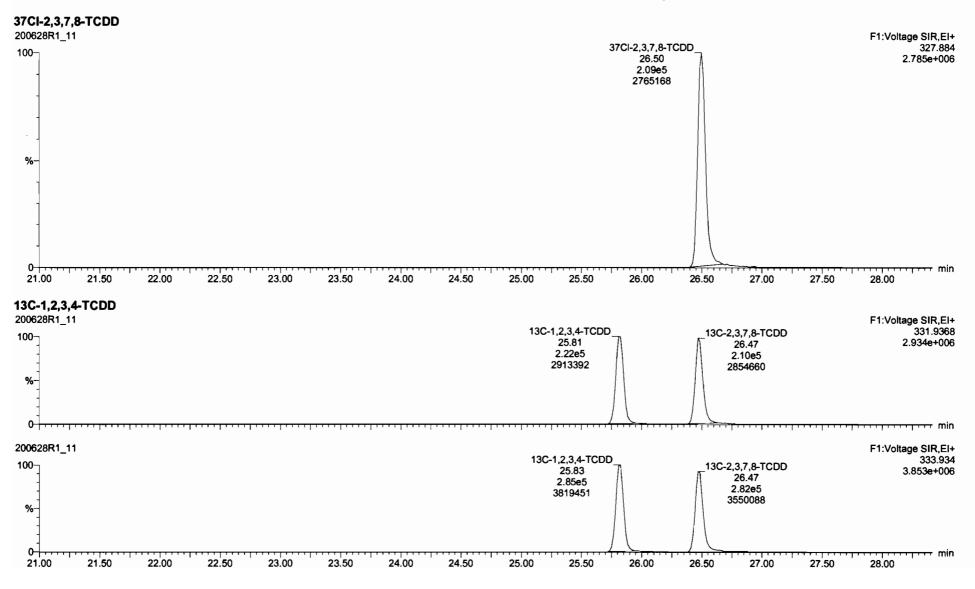
#### Hepta-Furans

RT MI Height M2 Height m1 Rep m2 Rest RA, marked Back Description Description Compared Back De

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	_					SN 25.36 <sup>21</sup> 24.82 MMMMM		-			F1:Voltage SIR,I 319.89
0	41 21.74 21.98 MWWMMMM	22.35 22.68	22.94 23.36	nMhm²	*21	24.82 MMMMMM	123.60 m	MMMM		27.61 28	.0028.20.5.079e+0
0628R1_11								26.50 2.38e2			F1:Voltage SIR,E 321.8 7.385e+0
21.02 <sup>21.44</sup>	21.54 21.93 22	.16 22.38 22.67	22.80 23.30 23	3.61 24.00 <sup>2</sup>	24.15 24.52 <u>2</u> 4	1.60 25.12 25.23	25.68 26.03 m.M	3886 26.20 26.71	26.87 27.20	27.38 27.9 27.9	28.37
21.00 2	21.50 22.00	22.50	23.00 23.5	0 24.00	24.50	25.00 25	50 26.00	26.50	27.00	27.50	28.00
6 <b>-2,3,7,8-T</b> ( 0628R1_11 %-	CDD					13C-1,2,3,4 25.81 2,22e 291333	5		8,7,8-TCDD 6.47 10e5 54660		F1:Voltage SIR, 331.9 2.934e+(
0 + • • • • • • • •	••••••									· · · · · · · · · · · · · · · · · · ·	····
0628R1_11						13C-1,2,3,4 25.8: 2.85e 38194	5		8,7,8-TCDD 16,47 82e5 50088		F1:Voltage SIR, 333. 3.853e+(
0 <del>]</del> 21.00 2	21.50 22.00	22.50	23.00 23.5	0 24.00	24.50	25.00 25	50 26.00	26.50	27.00	27.50	28.00

Quantify Sam Vista Analytica	· · ·	Page 119 of 182
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# Name: 200628R1\_11, Date: 28-Jun-2020, Time: 18:07:28, ID: 2001155-04 PDI-175SC-A-02-03-200522 11.47, Description: PDI-175SC-A-02-03-200522



<b>Quantify Sam</b> Vista Analytica	ple Report I Laboratory	MassLynx 4.1	SCN815						Page	e 120 of 18
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<b>,2,3,7,8-PeCl</b> 200628R1_11 100 28.60	28.83 28.98	Sr) 29.28 29.41	29.73 <sup>29.82</sup> 29.88	5N 30.17 30.14 30.25 30.34 3	<sup>30.60</sup> 30.66	SN 31.16 31.02 31.2	7 31.45 31.5 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0	₩ F2:Vi	bitage SIR,E 353.857 4.944e+00 32.43
%	928.75 28.80 29.02	29.27 29.27 29.44	29.68 29.91	30.12 <sup>30.18</sup> 30.303430.40	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.92 31.15 31.27	31.56 31.6	····	32.3 1.97 32.09	mi bitage SIR,El 355.855 5 4.529e+00
28.50 <b>3C-1,2,3,7,8-</b>	28.75 29.00	29.25 29	.50 29.75 30	).00 30.25 30	.50 30.75	31.00 31.25	31.50	31.75	32.00 32.25	32.50
200628R1_11						13C-1,2,3,7,8-PeC	_סכ		F2:V	oltage SIR,E 365.897
						31.45 1.62e5 2687978	$\bigwedge$			2.708e+00
100- 						31.45 1.62e5				
0		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · ·	<u>, , , , , , , , , , , , , , , , , , , </u>		31.45 1.62e5 2687978		<del> </del>	•	
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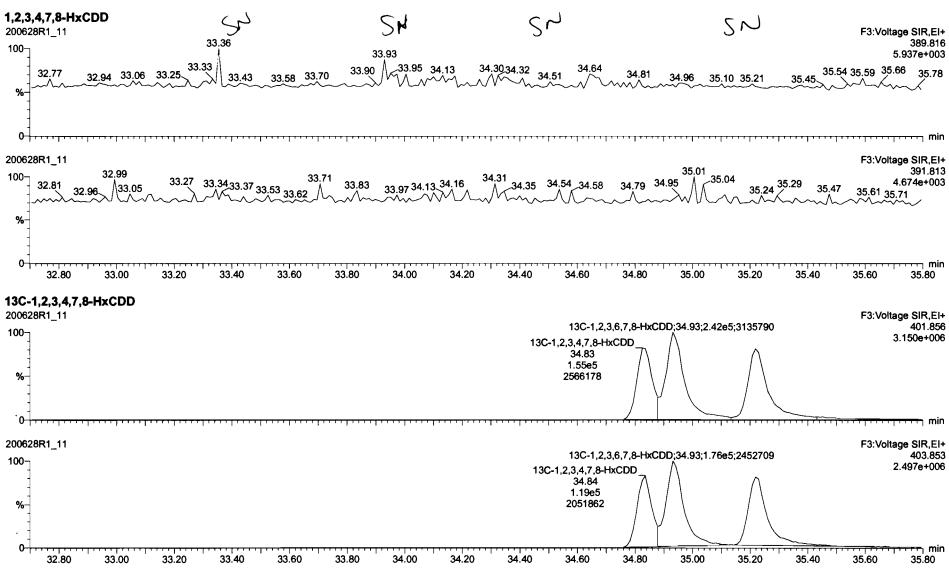
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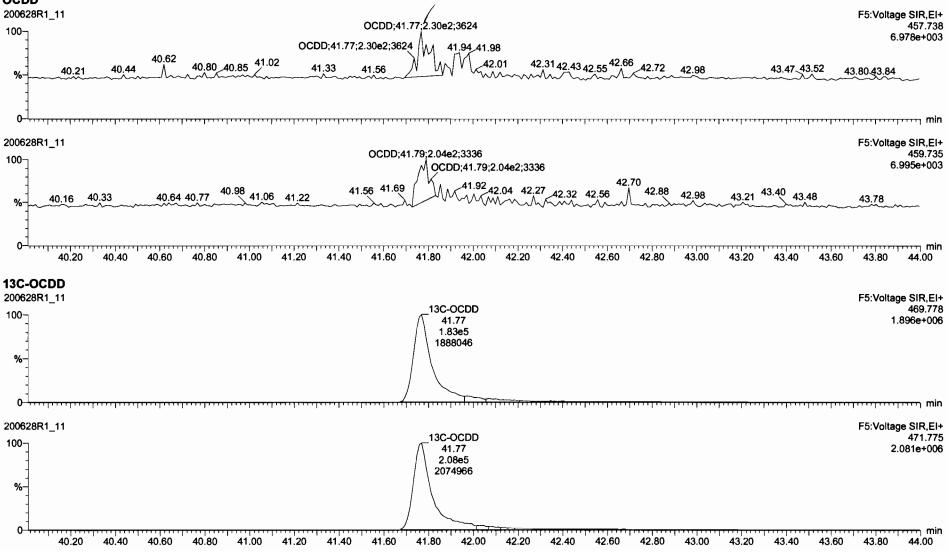
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00 <sub>7</sub>		1		20.02	423.7 6.206e+0
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%	) 36.60 36.80 37.00 37.2		.00 38.20 38.40 38.60 3		.40 39.60 39.80 40.00
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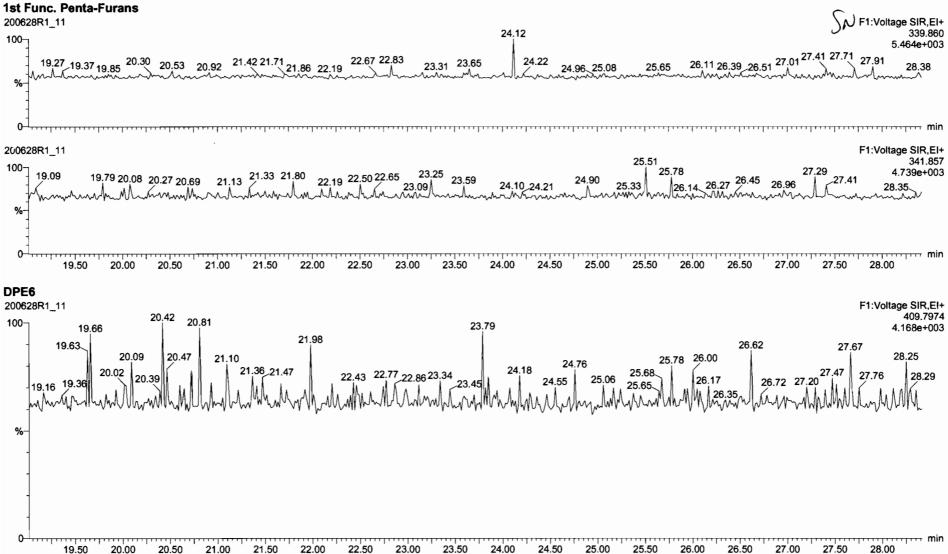
<b>Quantify San</b> Vista Analytica		Page 123 of 18
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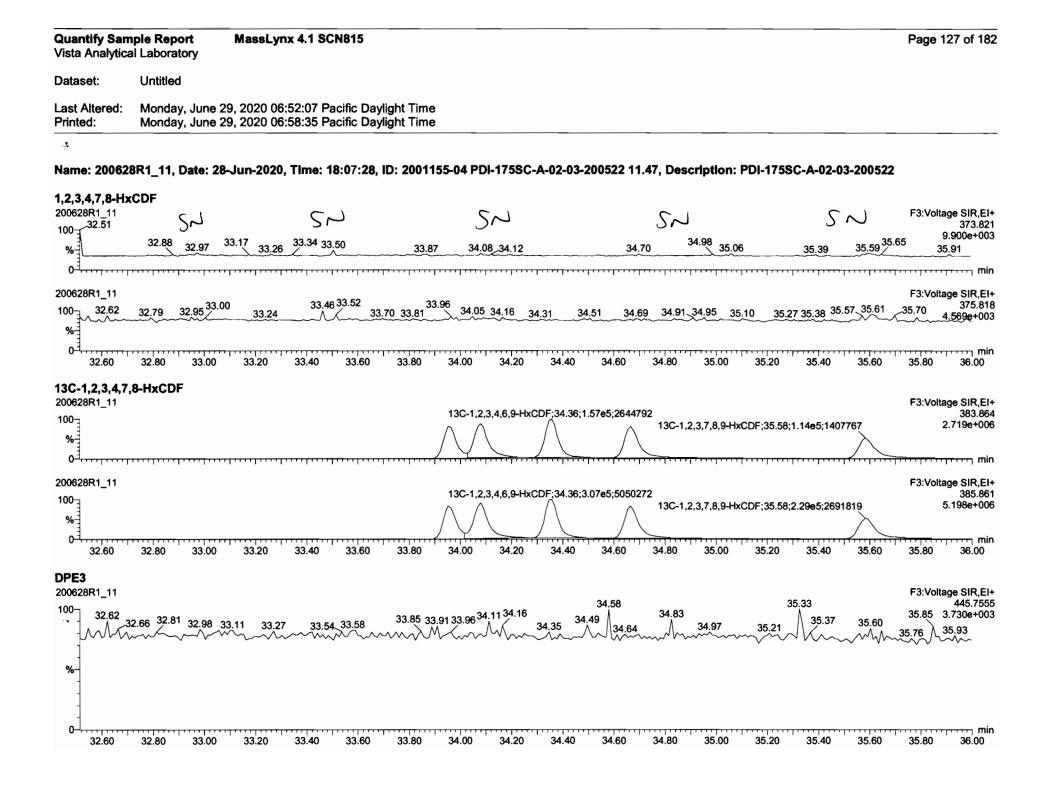
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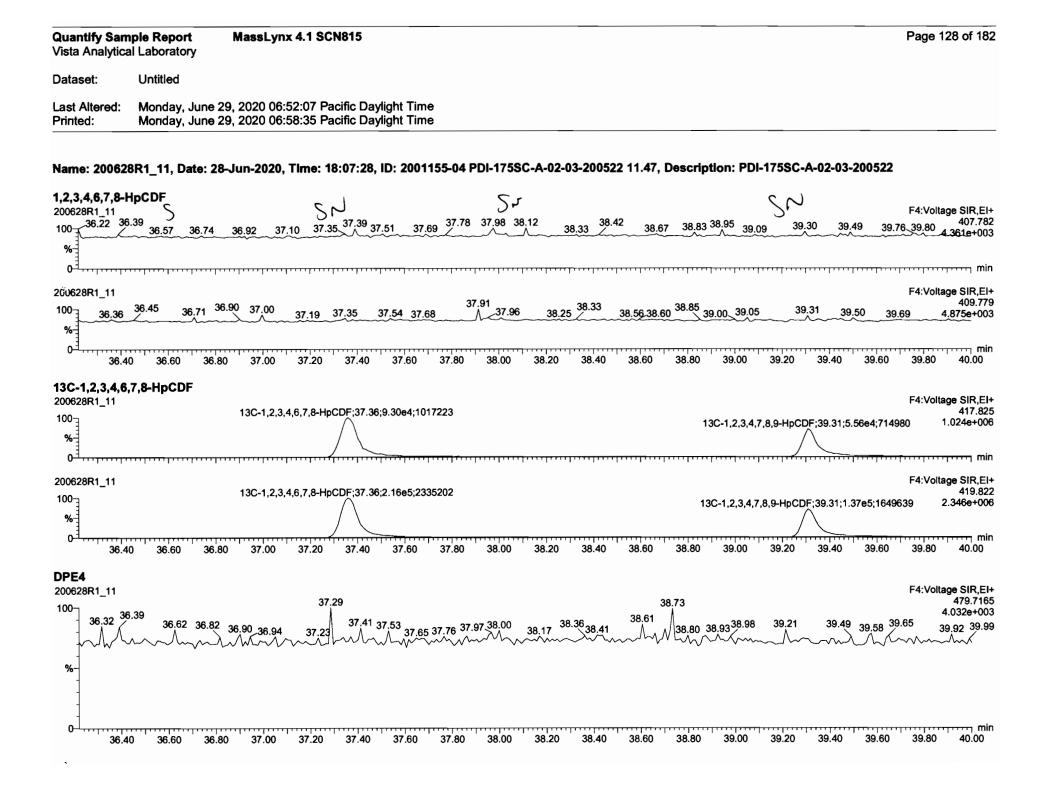
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00628R1_11	20.02.20.11 20	.80.20.87 20.9	5 21.32 21.7	7 21.98 22.41	22.62 24.:	21;1.30e4;16362	8 25.59;2 24.42	.66e4;240546	25.94 26.12	26.24 27	7.19.27.26	F1:Voltage SI 28.01 316 
%												
0-1,,,,,,,,,,,,,, 19.5	0 20.00 20.5	0 21.00	21.50	22.00 22.50	23.00	23.50 24.00	24.50 2	5.00 25.50	26.00	26.50 2	7.00 27.50	) 28.00
<b>FK2</b> 00628R1_11 00⊐ 28.69·4.49		29.38	29 1.4	9.68 47e4		o oc 30 72:7	.12e3;183789 3 <sup>,</sup>	1.02 31.30	31.34 31.44	31.85;6.25e	4;467932 32	F2:Voltage SI 09 366 32.27 1.613e
% 28.69;4.4§	9e4;641323 29.02		.9.44 18	4077 30	.00_30.17_3	0.35 30.72;7	.1260,100709 3	1.02 31.30	51.34		n L	32.27 1.613
0 <sup>-1</sup> 28.50	28.75 29.00	29.25	29.50	29.75 30	.00 30.25	30.50	30.75 31	.00 31.25	31.50	31.75	32.00	32.25 32
<b>FK3</b> 0628R1_11 00 <sub>7</sub>	33.05;7.52e5;	<u>3</u> 167605		33.75 33.81		34.19 34.44;3.1	7e4;521828		35.05	35.27	35.58	F3:Voltage SI 35.91380 7.8566
32.51 %												7.856
0 <sup>-1</sup>	32.80 33.00	33.20	33.40 3	33.60 33.80	34.00	34.20 34.·	40 34.60	34.80 3	5.00 35.	20 35.40	35.60	35.80 36
F <b>K4</b> )0628R1_11												F4:Voltage SI
	36.65;5.91e5;1467396	36.97	37.19	37.50	37.90	38.09	38.42 38.6	38.74	38.99	39.23 39	9.48 39.	400
% <u>-<u>36.32</u></u>		****			· · · · · · · · · · · · · · · · · · ·	****					····	
36.40	. '' ''			37.40 37.60		8.00 38.20	38.40 38.		39.00	39.20 39.		39.80 40
F <b>K5</b> 90628R1_11	40.44 4.55e5 40.44;4.55 998972	ie5;998972			42.04 42.26	42	.93;2.92e5;82613	0				F5:Voltage SI 454

40.25 40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50 44.75 45.00

Quantify Sam Vista Analytica	<b>iple Summary Report</b> al Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\20	00628R1\200628R1-12B.qld	
Last Altered: Printed:		2:57:13 PM Pacific Daylight Time 2:57:56 PM 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

# Name: 200628R1\_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 1,1.49, Description: Duplicate

	# Name	Resp	RA	n/y	RRF	GHD wt/vol	01/09	RT	Pred.RRT	RRT	Conc.	%Rec	- DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.888	+1.490-10.0	26.515		1.001				0.124	
2	2 1,2,3,7,8-PeCDD			NO	0.908	11.490	31.473		1.001				0.106	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	11.490	34.846		1.000				0.135	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	11.490	34,942		1.000				0.121	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	11.490	35.241		1.000				0.150	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	11.490	38.778		1.000				0.300	
7.	7 OCDD	1.83e3	0.86	NO	0.914	11.490	41.759	41.77	1.000	1.000	1.8948		0.307	1.89
8	8 2,3,7,8-TCDF			NO	0.751	11.490	25.612		1.001				0.0742	
9	9 1,2,3,7,8-PeCDF			NO	0.893	11.490	30.190		1.001				0.0473	••••
10	10 2,3,4,7,8-PeCDF			NO	0.935	11.490	31.192		1.001				0.0410	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	11.490	33.962		1.000				0.0613	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	11.490	34.089		1.000				0.0594	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	11.490	34.700		1.001				0.0639	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	11.490	35.581		1.000				0.0978	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	11.490	37.408		1.001				0.138	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	11.490	39.320		1.000				0.179	
17	17 OCDF			NO	0.806	11.490	41.950		1.000				0.159	
18	18 13C-2,3,7,8-TCDD	5.05e5	0.77	NO	1.16	11.490	26.507	26.48	1.026	1.025	164.70	83.1	0.321	
19	19 13C-1,2,3,7,8-PeCDD	4.52e5	0.66	NO	0.849	11.490	31.692	31.45	1.227	1.218	200.72	101	0.510	
20	20 13C-1,2,3,4,7,8-HxCDD	2.97e5	1.26	NO	0.779	11.490	34.840	34.84	1.014	1.014	156.64	79.0	1.19	
21	21 13C-1,2,3,6,7,8-HxCDD	4.25e5	1.17	NO	1.02	11.490	34.954	34.94	1.017	1.017	171.48	86.5	0.909	
22	22 13C-1,2,3,7,8,9-HxCDD	3.70e5	1.10	NO	0.903	11.490	35.225	35.23	1.025	1.025	168.34	84.9	1.02	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.57e5	1.07	NO	0.689	11.490	38.750	38.77	1.128	1.128	153.13	77.2	0.770	
24	24 13C-OCDD	4.19e5	0.92	NO	0.652	11.490	41.773	41.76	1.216	1.215	263.44	66.4	1.07	
25	25 13C-2,3,7,8-TCDF	5.68e5	0.77	NO	1.06	11.490	25.549	25.59	0.989	0.991	139.92	70.6	0.493	
26	26 13C-1,2,3,7,8-PeCDF	6.22e5	1.62	NO	0.838	11.490	30.076	30.17	1.165	1.168	193.76	97.7	0.786	
27	27 13C-2,3,4,7,8-PeCDF	6.50e5	1.60	NO	0.817	11.490	31.029	31.16	1.202	1.207	207.71	105	0.807	
28	28 13C-1,2,3,4,7,8-HxCDF	3.96e5	0.51	NO	1.01	11.490	33.971	33.96	0.989	0.989	161.31	81.4	1.04	
29	29 13C-1,2,3,6,7,8-HxCDF	4.72e5	0.52	NO	1.17	11.490	34.095	34.08	0.992	0.992	165.94	83.7	0.899	
30	30 13C-2,3,4,6,7,8-HxCDF	4.39e5	0.51	NO	1.02	11 yebo V	34.669	34.67	1.009	1.009	176.41	89.0	1.03	

Page 1 of 2

GRB 07/09/2020 C7 07/09/2020

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# Quantify Sample Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory MassLynx 4.1 SCN815

# Page 2 of 2

# Dataset: U:\VG12.PRO\Results\200628R1\200628R1-12B.qld

Last Altered:	Thursday, July 09, 2020 2:57:13 PM Pacific Daylight Time
Printed:	Thursday, July 09, 2020 2:57:56 PM Pacific Daylight Time

	<b>_</b> /					GHD	07/09/	2020	•	•				
	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	3.52e5	0.50	NO	0.860	1149010	.0875.569	35.58	1.035	1.036	167.91	84.7	1.22	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.27e5	0.42	NO	0.774	11.490	37.317	37.37	1.086	1.088	173.02	87.3	0.985	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.11e5	0.45	NO	0.521	11.490	39.348	39.32	1.145	1.144	166.27	83.9	1.46	
34	34 13C-OCDF	5.06e5	0.84	NO	0.746	11.490	41.945	41.95	1.221	1.221	278.27	70.2	0.827	
35	35 37CI-2,3,7,8-TCDD	1.92e5			1.04	11.490	26.538	26.51	1.028	1.027	70.017	88.3	0.158	
36	36 13C-1,2,3,4-TCDD	5.26e5	0.79	NO	1.00	11.490	25.890	25.83	1.000	1.000	198.27	100	0.371	
37	37 13C-1,2,3,4-TCDF	7.60e5	0.80	NO	1.00	11.490	24.360	24.13	1.000	1.000	198.27	100	0.522	
38	38 13C-1,2,3,4,6,9-HxCDF	4.83e5	0.52	NO	1.00	11.490	34.420	34.36	1.000	1.000	198.27	100	1.05	
39	39 Total Tetra-Dioxins				0.888	11.490	24.620		0.000				0.0753	
40	40 Total Penta-Dioxins				0.908	11.490	29.960		0.000				0.0559	
41	41 Total Hexa-Dioxins				0.892	11.490	33.635		0.000		0.00000		0.0751	0.236
42	42 Total Hepta-Dioxins				0.864	11.490	37.640		0.000				0.179	
43	43 Total Tetra-Furans				0.751	11.490	23.610		0.000				0.0255	
44	44 1st Func. Penta-Furans				0.893	11.490	27.580		0.000				0.0175	
45	45 Total Penta-Furans				0.893	11.490	29.275		0.000				0.0207	
46	46 Total Hexa-Furans				0.934	11.490	33.555		0.000				0.0385	
47	47 Total Hepta-Furans				0.873	11.000	37.835		0.000				0.0815	

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-12B.qld

Last Altered:Thursday, July 09, 2020 2:57:13 PM Pacific Daylight TimePrinted:Thursday, July 09, 2020 2:57:56 PM 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

Name: 200628R1\_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate

#### **Tetra-Dioxins**

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

#### Penta-Dioxins

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

#### Hexa-Dioxins

Name	RT	m1 Height m2 Height	m1 Resp m2 R	esp RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	33.35	5.150e3 4.367e3	2.138e2 2.04	e2 1.0	5 YES	0.000e0	0.00000	0.23556	0.140

#### Hepta-Dioxins

Name	::: <b>* RT</b>	m1 Height m2 Height	m1 Resp m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1									

#### Tetra-Furans

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

#### Penta-Furans function 1

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

#### Dataset: U:\VG12.PRO\Results\200628R1\200628R1-12B.qld

Last Altered: Thursday, July 09, 2020 2:57:13 PM Pacific Daylight Time Thursday, July 09, 2020 2:57:56 PM Pacific Daylight Time

# Name: 200628R1\_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate

#### Penta-Furans

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

#### Hexa-Furans

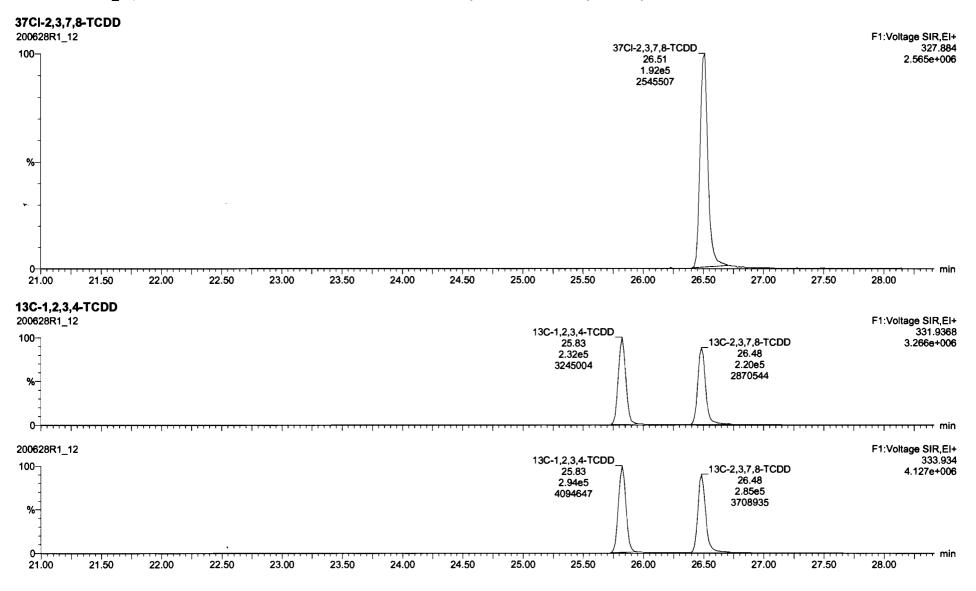
Name	RT	m1 Height m2 Height	m1 Resp m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1									

#### Hepta-Furans

Name	RT	m1 Height m2 Height	m1Respm2Re	p RA	n/y	Resp	Conc.	EMPC	DL
1									

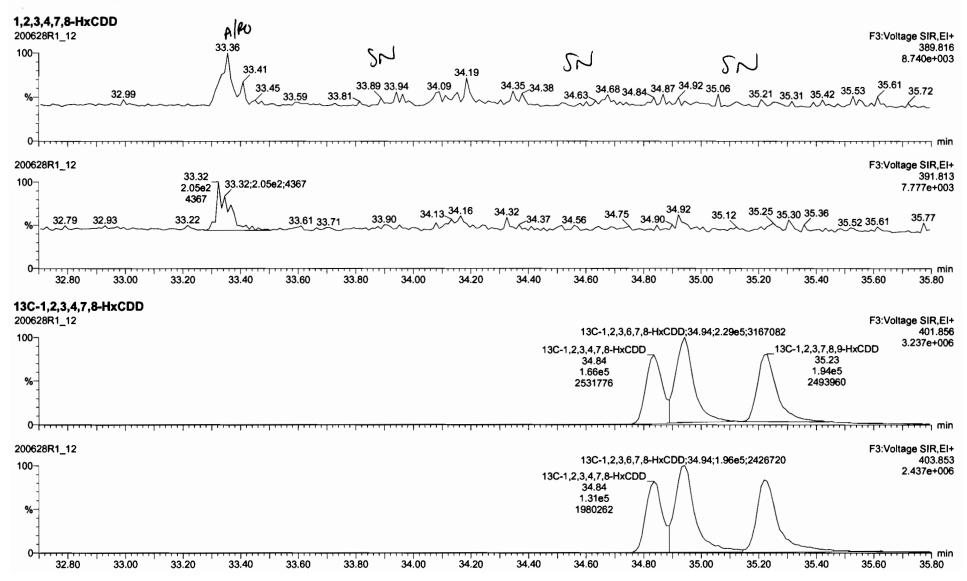
	n <b>ple Report</b> In Advised Advis	MassLynx 4.1 SC	5N815				Page 131 of 1
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ame: 20062	8R1_12, Date: 28-Ju	un-2020, Time: 1	8:53:39, ID: B0F008	6-DUP2 Duplicate 11	.49, Description: Dup	licate	
<b>3,7,8-TCDD</b> 0628R1_12	Sr	٢	$\mathbf{S}$	SN	SN	5 ، ۲۲	F1:Voltage SIR,I
21.04 21.33 %	5 <sup>21.69</sup> 21.83 22.07	22.41 · 22.73 23.0 MMMMMM	07 23.19 23.68 23.91	24.13.24.21 24.91	25.12 25.24 25.77 25.87	SN 5 27.02 26.27 26.50 26.72 26.27 26.50 26.72 27.11 27.11 27.56 27.56	<sup>6</sup> 27.89 28.19 5.5936+0
0628R1_12							F1:Voltage SIR,I
00						26.53 2.75e2 5491	321.8 9.147e+0
0	1.56 21.81 21.93 22.2?	22.55 22.55 22.55 22.50 23.00	·····	·····	97       25.26       25.77       25.77         97       25.26       25.77       25.77         97       25.26       26.0         90       25.50       26.0	·····	27.79.27.86 <sup>28.34</sup>
	000						
<b>3C-2,3,7,8-T</b> 0628R1_12							F1:Voltage SIR,I
					13C-1,2,3,4-TCDD 25.83 2.32e5 3245004	13C-2,3,7,8-TCDD 26.48 2.20e5 2870544	F1:Voltage SIR,I 331.93 3.266e+0
0628R1_12	·····	<del></del>		•••••	25.83 2.32e5	26.48 2.20e5	331.93 3.266 <del>0</del> +(
0628R1_12	·····	<del></del>	••••	<del></del>	25.83 2.32e5	26.48 2.20e5	331.93

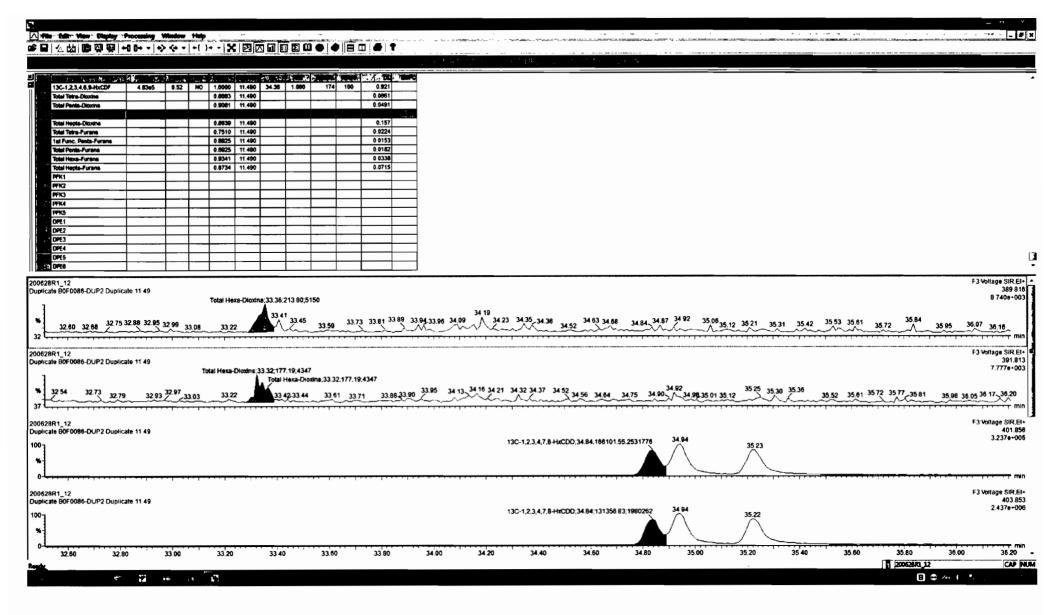
Quantify Sam Vista Analytica		Page 132 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacific Daylight Time Monday, June 29, 2020 06:58:35 Pacific Daylight Time	



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ame: 20062	BR1_12, I	Date: 28-	Jun-2020,	Time: 18:	:53:39, ID:	B0F0086	5-DUP2 Du	uplicate 1 <sup>4</sup>	1.49, Desc	cription: I	Duplicate					
2,3,7,8-PeC	DD		c				C									
0628R1_12			درک		Sr) 29.76	30.1	( <b>5</b> 7 <sup>30.20</sup>		SY	•	<b>G</b> 31,16	37 31.44	21			age SIR,I 353.85 5.502e+0
28.60 %-	28.8	9328.99 XA	29.22 	.38 29.57	2.73	29.92	J 30.23 -	30.41 30.47	30.69 30.7	8 30.98	/ <u>31.24</u> <sup>31</sup>	13731.44 V/m	31.82 <sup>31.8</sup>	32.05	32.17 32.29	32.37
0				<del></del>	• • • • • •	· · · · · ·			· · · · · · · ·			· · · · · ·	.,, <u>,</u> ,,,	<del></del>		n
0628R1_12							30.25					31.47				age SIR,E 355.85
-	28.77 28	29.02	29.25	29.42 / 29.50	29.71 29.8	5 20.06	30.18 30.2	29 30.60	30 70 20 7	- 31.04	31.16 1 31.19		1.63 31.71 3	1.85 32	10	
28.5828.61	28.77 28	Å	29.25	29.42		5 30.06	30.18 30.2	29 30.60 /////	30.70 30.7	5 31.04	31.16 <sub>31.19</sub>		1.63 31.71 3	91.85 32		
28.58 28.61	28.77 28	Å	29.25	٨		5 30.06 30.00	30.18 30.2	29 30.60	30.70 30.7 30.7 30.75	5 31.04 5 31.04 31.00	31.16 31.19 31.25		1.63 <sup>31.71</sup> 3	31.85 32 	10	5.795e+0 32.46
28.5828.61 0 28.50 3C-1,2,3,7,8	28.75		<sup>9</sup> 29.25	29.5	9	30.06	30.18 30.2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~		~/\3	1.31		·····	32.38	32.46
28.5828.61 28.50 <b>C-1,2,3,7,8</b> 0628R1_12	28.75		<sup>9</sup> 29.25	29.5	9	30.06	30.18 30.2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	5 31.00 31.00	~/\3	1.31 31.50		·····	2.18 32.38 32.25 F2:Volt	32.46 32.50 32.50 age SIR,1 365.89
28.5828.61 28.50 <b>C-1,2,3,7,8</b> 0628R1_12	28.75		<sup>9</sup> 29.25	29.5	9	30.06	30.18 30.2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	5 31.00 31.00	31.25 ,2,3,7,8-PeCE 31.45 1.79e5	1.31 31.50		·····	2.18 32.38 32.25 F2:Volt	32.46 32.50 age SIR, 365.89 2.705e+(
28.58 <sup>28.61</sup> 28.50 <b>C-1,2,3,7,8</b> 0 <b>C-1,2,3,7,8</b> 0 0 0 0 0 0 0 0 0 0 0 0 0	28.75		<sup>9</sup> 29.25	29.5	9	30.06	30.18 30.2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	5 010,7 31.00 13C-1, 13C-1,	31.25 ,2,3,7,8-PeCE 31.45 1.79e5	1.31 31.50		·····	2.18 32.38 32.25 F2:Volt	32.46 32.5 age SIR, 365.8 2.705e+1 age SIR, 367.1
%- 0	28.75		<sup>9</sup> 29.25	29.5	9	30.06	30.18 30.2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~	5 010,7 31.00 13C-1, 13C-1,	,2,3,7,8-PeCE 31.45 1.79e5 2698965 ,2,3,7,8-PeCE 31.45 2,3,7,8-PeCE 31.45 2,72e5	1.31 31.50		·····	2.18 32.38 32.25 F2:Volt	32.46

Quantify Sam Vista Analytica		Page 134 of 182
Dataset:	Untitled	
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	nple Report MassLynx 4.1 SCN815 al Laboratory	Page 135 of 182
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l <b>,2,3,4,6,7,8-1</b> 200628R1_12	10P	F4:Voltage SIR,EI+
36.22	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	423.777 7.089e+003 9.56 <sup>39.63</sup> 39.79 39.82
%-~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
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# 13C-1,2,3,4,6,7,8-HpCDD

36.40

36.60

36.80

37.20

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TTTTT

37.40

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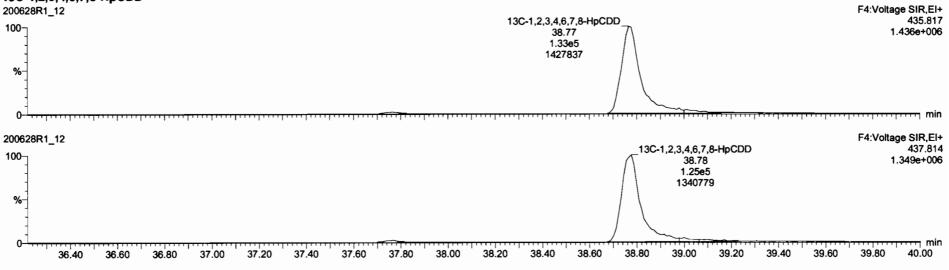
37.60

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37.80

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39.00

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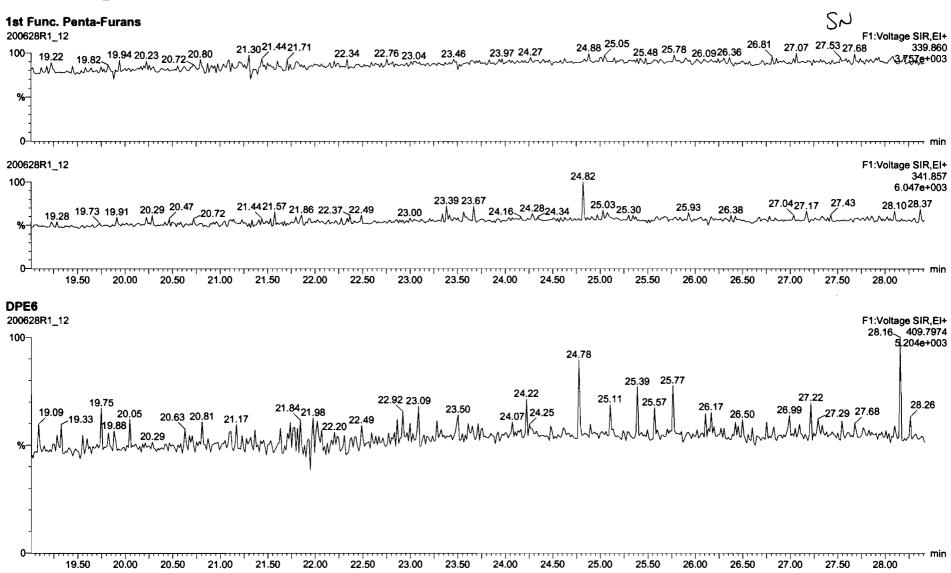
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	<b>nple Report</b> al Laboratory	MassLynx 4.1 SCN815					Page 136 of 1
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ame: 20062	8R1_12, Date: 2	8-Jun-2020, Time: 18:53::	39, ID: B0F0086-DUP2 Du	plicate 11.49, Descr	iption: Duplicate		
CDD 10628R1_12							
00- -			OCDD 41.77 7.14e2 10660	77 le2			F5:Voltage SIR,E 457.7 1.439e+0
% 40.	22		10650 106	42.00	2.47 42.57 42.79	43.02	43.56
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00 1 1 8		40.87	OCDD 41.78 5.65e2 8153 41.78 15.65e2 8153	2	<sup>4</sup> 42.57 42.76 42.83		459.7 1.376e+0
40.2 0				42.00 42.20 42.40	····	43.05 43.23 4 3.00 43.20 43.40	13.55 43.60 43.80 44.00
0628R1_12							EE:Voltage SIR
%- ]			13C-OCDD_ 41.76 2.01e5 1922313				F5:Voltage SIR,E 469.7 1.931e+0
0 <sup>-1</sup>					<del></del>	·····	
00628R1_12			13C-OCDD_ 41.76 2.18e5 2036853				F5:Voltage SIR, 471.7 2.050e+0

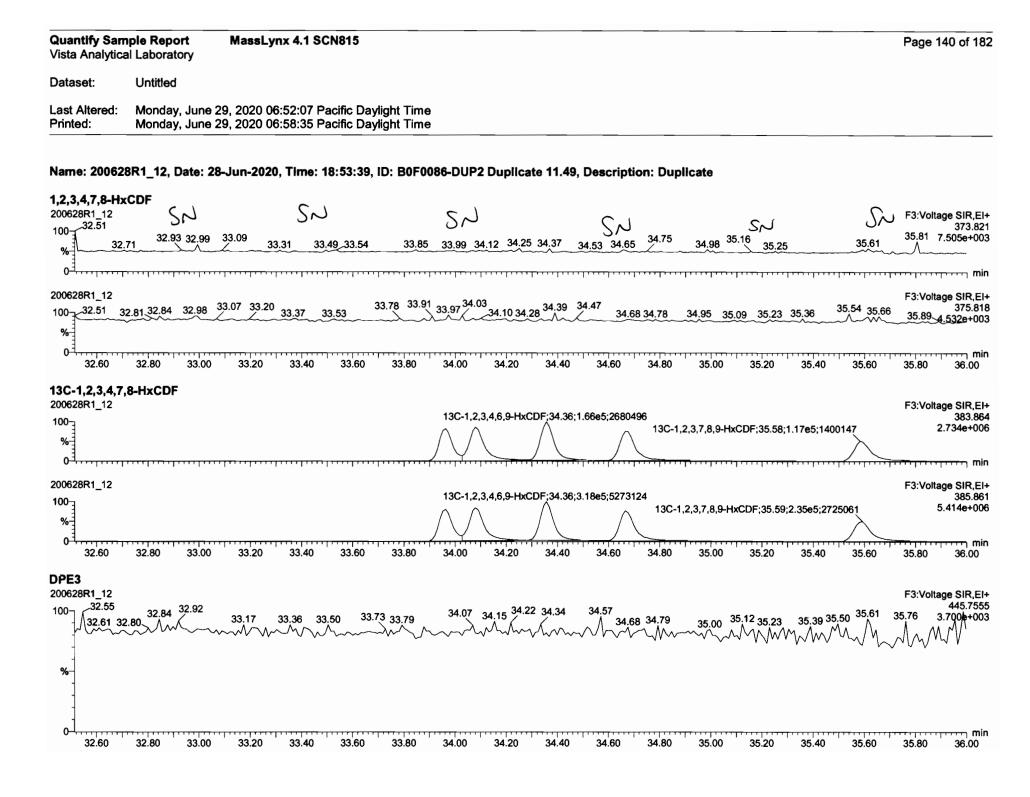
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	2,3,7,6-TCD0	-		0.8863						0.109	_														
	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDD	+		0.9081						0.0927	-														
	1.2.3,6,7,8-HxC00	+ +								0.106	-														
	1,2,3,7,8,9-HxCDD		100	-	11.490					0.132															
	1,2,3,4,6,7,8-HpC00			0.8639						0.264															
		!						1.1.1	· · ·	i															
	2,3,7,8-TCDF			0.7510		$\vdash$				0 0651	-														
	1.2.3,7,8-PeCOF			0.8925			+			0.0415	-														
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1.2	2,3,4,6,7,8-HxCDF		NO		11.490					0 0561															
	1,2,3,7,8,9-HxCOF			0.8707	11.490					0 0859															
	1.2.3,4,6,7,8-HpCDF		HO		11.490					0.121	_														
	1,2,3,4,7,8.9-HpCDF OCDF		HO HO		11.490 11.490					0.157	-														
	13C-2,3,7,6-TCDD	5.05e5	0.77 HO		11.490	26 48	1 025	145	83.1	0.282	-														
	13C-12,3,7,8-PeC00		0 66 HO		11.490		1 218		101	0 448	-														
	13C-1.2,3,4,7,8-HbcDD		1.26 140				1.014	138		1.04															
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20062	28R1_12																		_						F5:Voltage SIR.EI+
Duplic	ate 80F0086-DUP2 Dupli	cale 11 49																							457.738
100 ]									OCDD:	1.77;844.47;															1.439e+004
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		Cale 11.49							0000	1.78;983.92	10323														1.376e+004
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	ate BOF0086-DUP2 Dupli	cate 11 49																							469 778
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1 0-1	40.20 40	40 40.60	40.80	0 4	1.00	41.20	41	1.40	41.60	41.80	42.00	42.20	42.40	42.60	42.60	43.00	43 20	43.40	43.60	43.80	44.00	44.20	44.40	44.60	44.60 45.00
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rinted: M ame: 200628R 3,7,8-TCDF 10628R1_12 19.10 19 19.10 19	Monday, Jur 1_12, Date:	ne 29, 2020 06	:58:35 Pacific   , <b>Time: 18:53</b> :	Daylight Tim	e								
<b>3,7,8-TCDF</b> 10628R1_12 19.10				39, ID: B0F0	0086-DUP								
<b>3,7,8-TCDF</b> 10628R1_12 19.10						2 Duplicat	te 11.49.	Descriptio	on: Duplic	ate			
00 19.10 19		<b>N</b> 1-	Sr-	2		52		Sn			λ	$S \sim$	
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0 <sup>±</sup>								••••					
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%	h	mounder	Nhamma			~~~~~~							
19.50 I <b>C-2,3,7,8-TCE</b> 0628R1_12		20.50 21.00	21.50 22	00 22.50	23.00	23.50	24.00	24.50 25	5.00 25.9	50 26.00	26.50	27.00 27.	50 28.00 F1:Voltage SIF
00 %					1	3C-1,2,3,4-T( 24.13 3.37e5 3936446		13C-2,3	3,7,8-TCDF;2	5.59;2.47e5;3	176027		315.0 3.967e-
0 00628R1_12					1	3C-1,2,3,4-T( 24.13 4.23e5		13C-2,3	3,7,8-TCDF;2	25.59;3.21e5;4 Λ	159437		F1:Voltage SIF 317 4.987e
%- <u> </u> 0	20.00	20.50 21.00	21.50 22	00 22.50	23.00	4947959	24.00	24.50 25	5.00 25.	50 26.00	26.50	27.00 27.	50 28.00
19.50 PE1	20.00	20.50 21.00	21.50 22	.00 22.50	23.00	23.30	24.00	24.30 23	20.00	0 20.00	20.50	27.00 27.	20.00
00628R1_12	9.70		or er 21.69 or o			23.52	1 24	.33 24 8	25.18	.56 25.78 26	.23	27.32	F1:Voltage SIF 375. 4.566e 27.80 27.98
19.66 %	19.88 20.21	20.53 20.86 	21.41 21.69 21.9 MMMMMM	22.01 22.1 WMMMM	65 23.01 2 pmm	23.36	23.97	.33 24.8 24.70	Mmm	hulmh	20.44 26. mmmm	27.32 30 <sub>27.28</sub>	28.08
-													
0	20.00	20.50 21.00	21.50 22	.00 22.50	23.00	23.50	24.00	24.50 2	5.00 25.	50 26.00	26.50	27.00 27.	50 28.00

Quantify Sam Vista Analytica		Page 138 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacific Daylight Time Monday, June 29, 2020 06:58:35 Pacific Daylight Time	



<b>uantify Sam</b> sta Analytica			MassLy	ynx 4.1 SC	N815										Page	139 of 1
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ame: 200621	BR1 12.	Date: 28-	Jun-202	0, Time: 18	3:53:39, ID	: B0F0086	-DUP2 Du	uplicate 1	1.49, Des	cription:	Duplicate					
<b>2,3,7,8-PeC</b> I		ςN		SN	·	52			と	-	SN			S~	F2:Vol	tage SIR,
28.44 <sup>28.0</sup>			29.18	29.44 29.		9.89 	30.20 30	.44 30.50	30.70	30.96 31	08 31.30	31.50 3	31.65 31.74	31.94 32.09		339. 5.215 <del>e</del> +
0	<del>., , ,</del>	· · · · · · ·				<del>_</del>		· · · · · · ·							• • • • •	
00628R1_12 00-128.552 %-1	28.70_28.7	<u> </u>	9.09	29.41 29	9.68 29.862	9.89 30.02 <sup>30</sup>	.08 30.4	41 30.50	30.67 30	0.87 31.1	1 31.19 3	1.39 31	.62 31.83	31.92 32.08		tage SIR 341. <u>4.791e</u> +
28.50	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.5
3C-1,2,3,7,8-															<b>FO</b> -1 (-1	
00628R1_12 %					:	.3,7,8-PeCDF 30.17 3.84e5 654704					$\bigwedge$ .	,4,7,8-PeCDI 31.16 4.00e5 191754	F		F2:VO	tage SIR 351 6.201e+
0 <sup>-1</sup>			- <del></del> .					<del></del>				<del>, , , ,</del> , ,	_, , , , , , , ,	_ , , , , , , , , , , , , , , , , , , ,	F2:Vol	Itage SIR
00 %					:	,3,7,8-PeCDF 30.17 2.38e5 562464			2	4,7,8-PeCD 31.15 2.50e5 399692	F					353 3.908e+
0 <sup>-1</sup> , , , , , , , , , , , , , , , , , , ,	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.5
<b>PE2</b> 00628R1_12												24.6	50		F2:Vo	ltage SIR 409.7
28.57 28	.72 28.81	28.86 29	0.12 29.16	29.30 29.54	29.83	<b>29.91 30.08</b> ∧∧∧∧	3 30.26 30	.37 30.50	30.7830.	84 31.01 \30.92	31.10 31.22	31.44 31.5	31.71 31.	79 32.06	32.27	3.811e+
	$\sim \sim 0$								$\sim \sim \sim \sim$				~ ~ ~			
<b>%</b>																
0-'	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.5

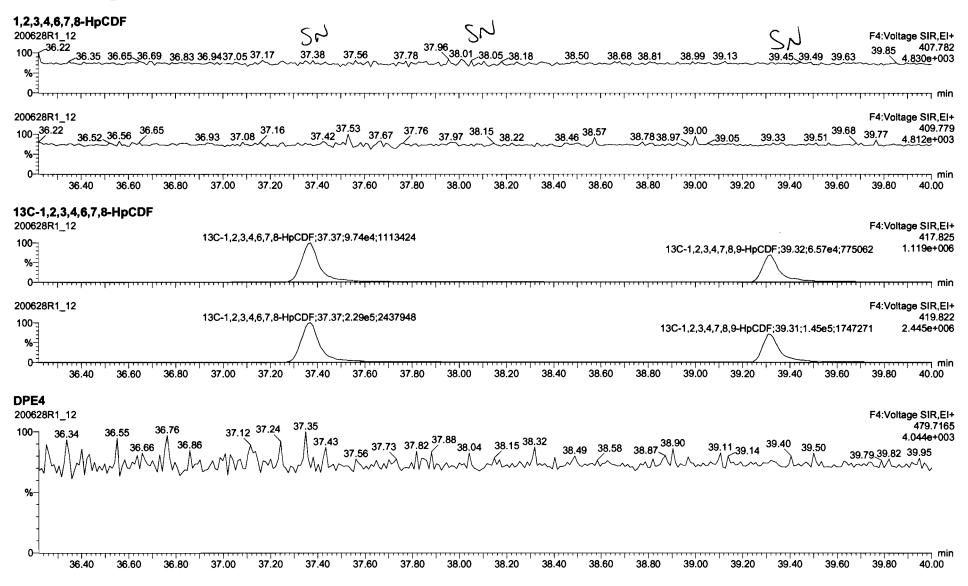


Work Order 2001155

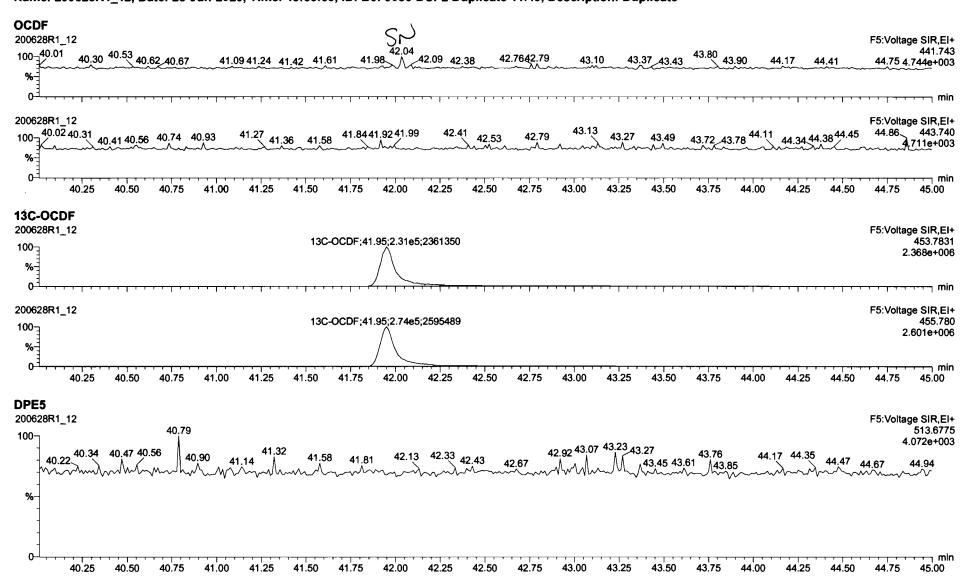
# Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory Vista Analytical Laboratory

Dataset: Untitled

Last Altered: Monday, June 29, 2020 06:52:07 Pacific Daylight Time Printed: Monday, June 29, 2020 06:58:35 Pacific Daylight Time



Quantify Sam Vista Analytica		Page 142 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:52:07 Pacific Daylight Time Monday, June 29, 2020 06:58:35 Pacific Daylight Time	



<b>Quantify Sam</b> /ista Analytica		Page 143 of 18
Dataset:	Untitled	
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lame: 200628	R1_12, Date: 28-Jun-2020, Time: 18:53:39, ID: B0F0086-DUP2 Duplicate 11.49, Description: Duplicate	
<b>FK1</b> 00628R1_12	20.39 20.59 20.75 20.99 21.98;5.50e3;101162 22.44 23.21 23.67 24.33.24.61 25.06;2.18e4;209458 25.74 26.21 26.75 27.17 27.2	F1:Voltage SIR,I 9 27.97 316.98
%	20.39 20.59 20.75 20.99 21.98;5.50e3;101162_22.44 23.21 23.67 24.33.24.61 25.06;2.18e4;209458 25.74 26.21 26.75 27.17 27.2	1.3496+0
0 <sup>_1</sup> ,,	0 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.5	D 28.00
FK2 00628R1_12 %28.49	28.99.29.04 29.19 29.33 29.45 <sup>29.51</sup> 30.17;6.92e3;153933 30.43;3.48e4;156968 30.83 31.04;1.94e4;238572 31.39 31.51 32.15;1.60e4;189153	F2:Voltage SIR, 32.40 366.97 7.344e+(
28.50	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 30.75 31.00 31.25 31.50 31.75 32.00	32.25 32.50
FK3 00628R1_12	33 49:1 2265:1020912 34.12;4.51e5;2017488 24 64 65 65	F3:Voltage SIR,I 380.97
00 32.79;1 %	.09e6;3662311 33.48;1.22e5;1020812 33.87 34.12;4.51e5;2017488 34.64 35.05 35.37 35.62	8.731e+(
0- <sup>1</sup>	32.80 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60	35.80 36.0
FK4 00628R1_12 %36.27	36.70;1.18e6;2113533 37.24;1.34e5;1078945 37.52 37.97 38.29;2.11e5;935026 38.89 39.53 39.6	F4:Voltage SIR, <sup>3</sup> 39.77 430.9 <del>5.892e</del> +
0	) 36.60 36.80 37.00 37.20 37.40 37.60 37.80 38.00 38.20 38.40 38.60 38.80 39.00 39.20 39.40 39.60	39.80 40.0
FK5 00628R1_12	40.56 41.00 41.16 41.30 41.49 41.60 41.89 42.01 42.39 42.55 42.81 43.89 44.21	F5:Voltage SIR 454.9 44.62 3.334e+
%  40.2	5 40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50	) 44.75 45.0

Quantify Sam Vista Analytica	p <b>le Summary Report</b> Il Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\200	628R1\200628R1-13.qld	
Last Altered: Printed:		5:34 PM Pacific Daylight Time 6:02 PM Pacific Daylight Time	

Page 1 of 2

GPB 07/06/2020 G 07/09/2020

### 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

Name: 200628R1\_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

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1 2,3,7,8-TCI	D		NO	0.888	10.064	26.516		1.001				0.118	
2 1,2,3,7,8-P	CDD		NO	0.908	10.064	31.473		1.001				0.107	
3 1,2,3,4,7,8-	HxCDD		NO	1.03	10.064	34.846		1.000				0.130	
4 1,2,3,6,7,8-	HxCDD		NO	0.892	10.064	34.932		1.000				0.117	
5 1,2,3,7,8,9-	HxCDD		NO	0.887	10.064	35.230		1.000				0.146	
6 1,2,3,4,6,7,	B-HpCDD		NO	0.864	10.064	38.778		1.000				0.227	
7 OCDD	4.86e2	0.99	NO	0.914	10.064	41.759	41.79	1.000	1.001	0.53896		0.350	0.539
8 2,3,7,8-TCI	)F		NO	0.751	10.064	25.612		1.001				0.0881	
9 1,2,3,7,8-P	CDF		NO	0.893	10.064	30.190		1.001				0.0973	
10 2,3,4,7,8-P	CDF		NO	0.935	10.064	31.177		1.001				0.0864	
11 1,2,3,4,7,8-	HxCDF		NO	0.884	10.064	33.952		1.000				0.0796	
12 1,2,3,6,7,8-	HxCDF		NO	0.889	10.064	34.090		1.000				0.0730	
13 2,3,4,6,7,8-	HxCDF		NO	0.934	10.064	34.701		1.001				0.0828	
14 1,2,3,7,8,9-	HxCDF		NO	0.871	10.064	35.582		1.000				0.130	
15 1,2,3,4,6,7,	8-HpCDF		NO	0.873	10.064	37.397		1.001				0.114	
is,	9-HpCDF		NO	1.01	10.064	39.320		1.000				0.146	
17 OCDF			NO	0.806	10.064	41.951		1.000				0.251	
18 13C-2,3,7,8	-TCDD 5.50e5	0.77	NO	1.16	10.064	26.507	26.48	1.026	1.026	179.59	90.4	0.310	
19 13C-1,2,3,7	,8-PeCDD 4.70e5	0.62	NO	0.849	10.064	31.692	31.45	1.227	1.218	208.68	105	0.775	
20 13C-1,2,3,4	,7,8-HxCDD 2.87e5	1.30	NO	0.779	10.064	34.830	34.84	1.014	1.014	145.06	73.0	0.974	
21 13C-1,2,3,6	,7,8-HxCDD 4.55e5	1.27	NO	1.02	10.064	34.944	34.93	1.017	1.017	176.58	88.9	0.746	
22 13C-1,2,3,7	,8,9-HxCDD 4.00e5	1.24	NO	0.903	10.064	35.215	35.22	1.025	1.025	174.71	87.9	0.841	
23 13C-1,2,3,4	,6,7,8-HpCDD 2.52e5	1.03	NO	0.689	10.064	38.739	38.77	1.128	1.129	144.31	72.6	0.772	
24 13C-OCDD	3.92e5	0.89	NO	0.652	10.064	41.761	41.76	1.216	1.216	237.29	59.7	0.851	
25 13C-2,3,7,8	-TCDF 6.58e5	0.78	NO	1.06	10.064	25.549	25.5 <del>9</del>	0.989	0.991	162.82	81.9	0.494	
26 13C-1,2,3,7	,8-PeCDF 6.51e5	1.59	NO	0.838	10.064	30.076	30.17	1.165	1.168	203.70	103	1.10	
27 13C-2,3,4,7	,8-PeCDF 6.15e5	1.61	NO	0.817	10.064	31.029	31.15	1.202	1.206	197.58	99.4	1.13	
28 13C-1,2,3,4	,7,8-HxCDF 4.07e5	0.50	NO	1.01	10.064	33.961	33.95	0.989	0.989	159.14	80.1	1.07	
29 13C-1,2,3,6	,7,8-HxCDF 5.22e5	0.49	NO	1.17	10.064	34.085	34.08	0.992	0.992	176.55	88.8	0.920	
30 13C-2,3,4,6	,7,8-HxCDF 4.55e5	0.51	NO	1.02	10.064	34.659	34.67	1.009	1.00 <del>9</del>	175.45	88.3	1.05	
31 13C-1,2,3,7	,8,9-HxCDF 3.50e5	0.52	NO	0.860	10.064	35.558	35.58	1.035	1.036	160.72	80.9	1.25	

# Quantify Sample Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory MassLynx 4.1 SCN815

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-13.qld

Last Altered:	Monday, July 06, 2020 3:15:34 PM Pacific Daylight Time
Printed:	Monday, July 06, 2020 3:16:02 PM Pacific Daylight Time

Name: 200628R1\_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

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	32 13C-1,2,3,4,6,7,8-HpCDF	3.15e5	0.44	NO	0.774	10.064	37.307	37.36	1.086	1.088	160.32	80.7	0.818
	33 13C-1,2,3,4,7,8,9-HpCDF	1.92e5	0.40	NO	0.521	10.064	39.336	39.32	1.145	1.145	145.68	73.3	1.22
	34 13C-OCDF	4.86e5	0.90	NO	0.746	10.064	41.933	41.95	1.221	1.221	257.18	64.7	0.633
	35 37CI-2,3,7,8-TCDD	2.28e5			1.04	10.064	26.538	26.50	1.028	1.026	82.806	104	0.154
	36 13C-1,2,3,4-TCDD	5.27e5	0.79	NO	1.00	10.064	25.890	25.83	1.000	1.000	198.72	100	0.359
	37 13C-1,2,3,4-TCDF	7.58 <del>e</del> 5	0.80	NO	1.00	10.064	24.360	24.13	1.000	1.000	198.72	100	0.524
	38 13C-1,2,3,4,6,9-HxCDF	5.04e5	0.49	NO	1.00	10.064	34.420	34.35	1.000	1.000	198.72	100	1.07
	39 Total Tetra-Dloxins				0.888	10.064	24.620		0.000				0.0692
	40 Total Penta-Dioxins				0.908	10.064	29.960		0.000				0.0509
N SALE	41 Total Hexa-Dioxins				0.892	10.064	33.635		0.000				0.0725
	42 Total Hepta-Dioxins				0.864	10.064	37.640		0.000				0.117
and the second	43 Total Tetra-Furans				0.751	10.064	23.610		0.000				0.0388
	44 1st Func. Penta-Furans				0.893	10.064	27.580		0.000				0.0229
	45 Total Penta-Furans				0.893	10.064	29.275		0.000				0.0446
	46 Total Hexa-Furans				0.934	10.064	33.555		0.000				0.0463
	47 Total Hepta-Furans				0.873	10.064	37.835		0.000				0.0678

#### Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-13.qld

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Name: 200628R1\_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

**Tetra-Dioxins** 

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Penta-Dioxins

nt zes m Regn m2 Height m2 Height

**Hexa-Dioxins** 

Hepta-Dioxins

Tetra-Furans

**Penta-Furans function 1** 

#### Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200628R1\200628R1-13.qld

Last Altered: Monday, July 06, 2020 3:15:34 PM Pacific Daylight Time Printed: Monday, July 06, 2020 3:16:02 PM Pacific Daylight Time

Name: 200628R1\_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-A-03-04-200522

# Penta-Furans

# Hexa-Furans

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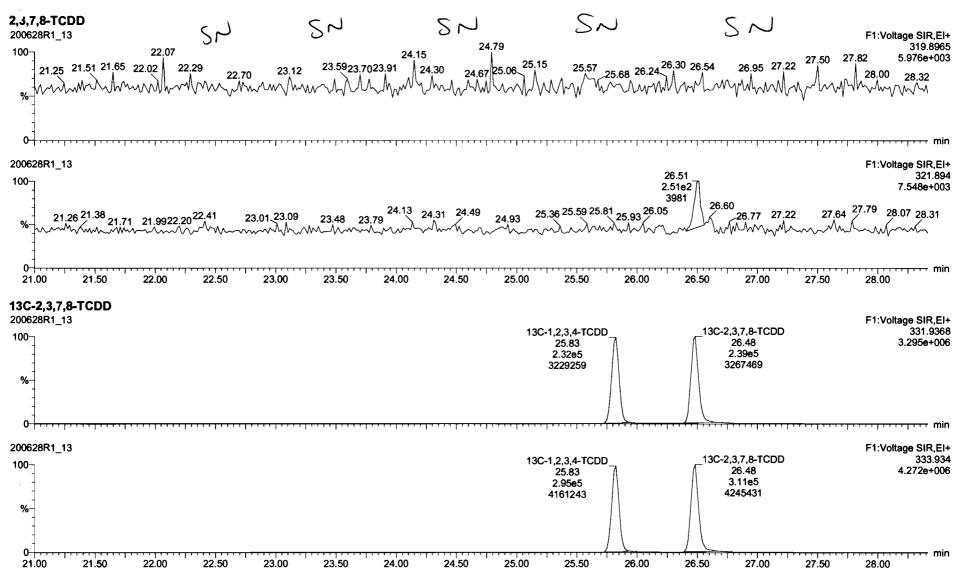
# Hepta-Furans

Quantify Sample Report	MassLynx 4.1 SCN815
Vista Analytical Laboratory	-

Dataset: Untitled

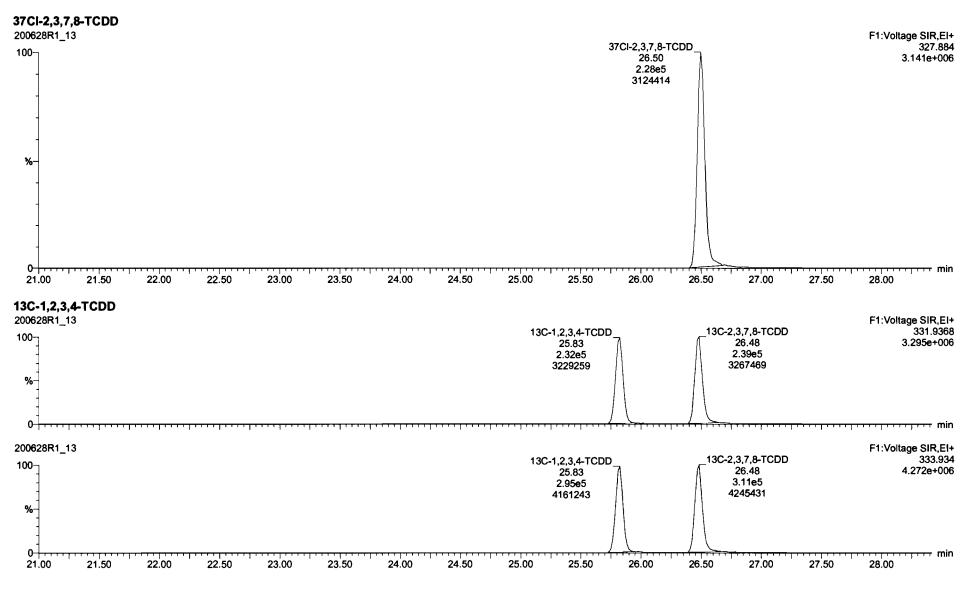
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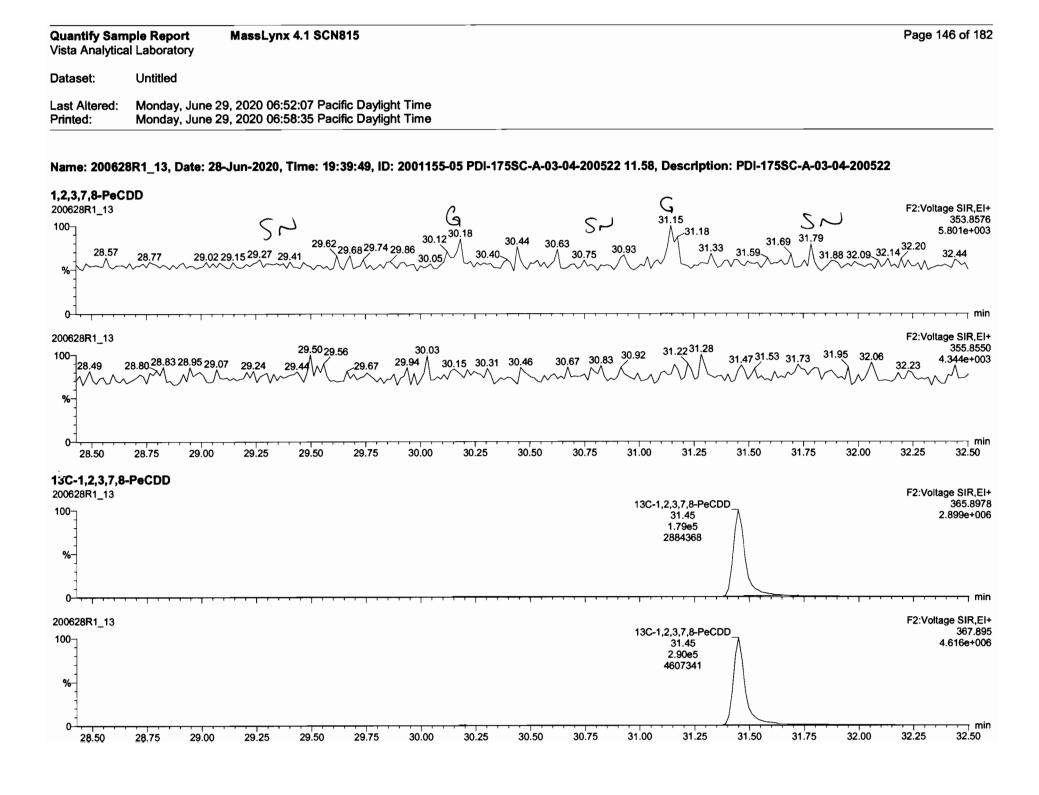
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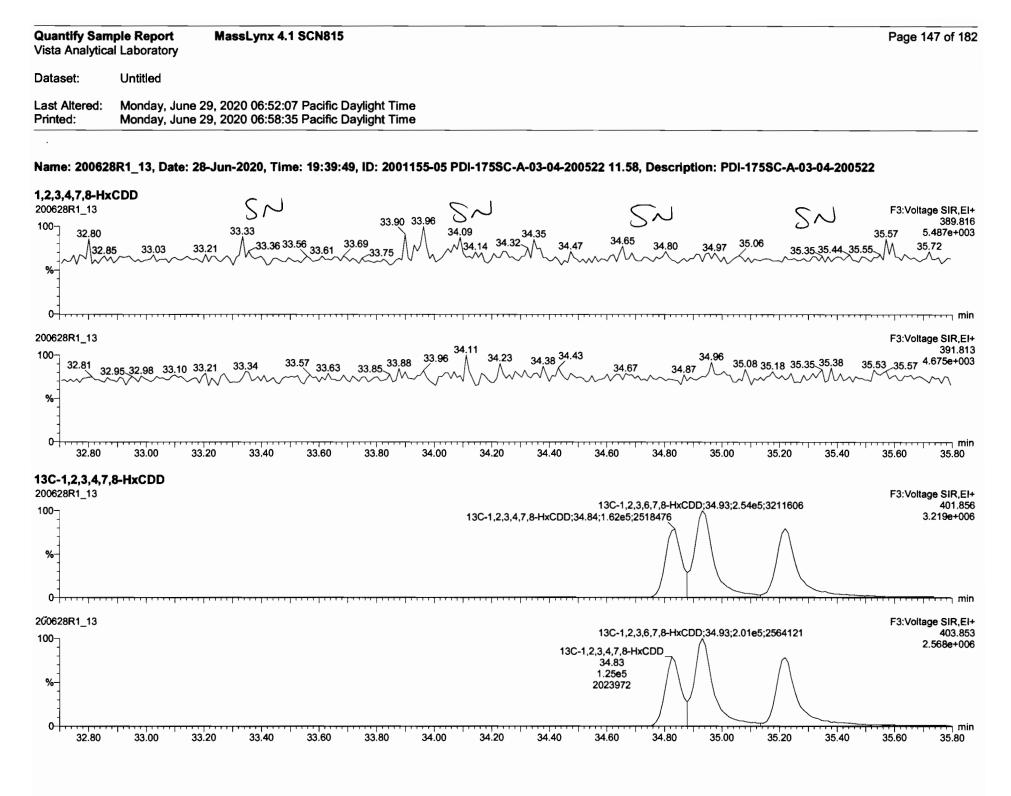


Quantify Sam Vista Analytica		Page 145 of 182
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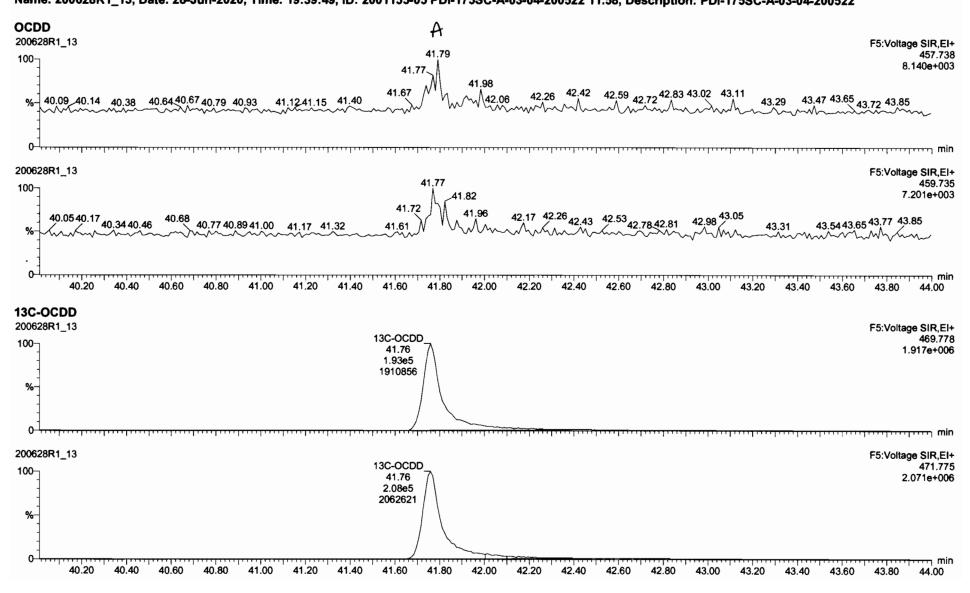


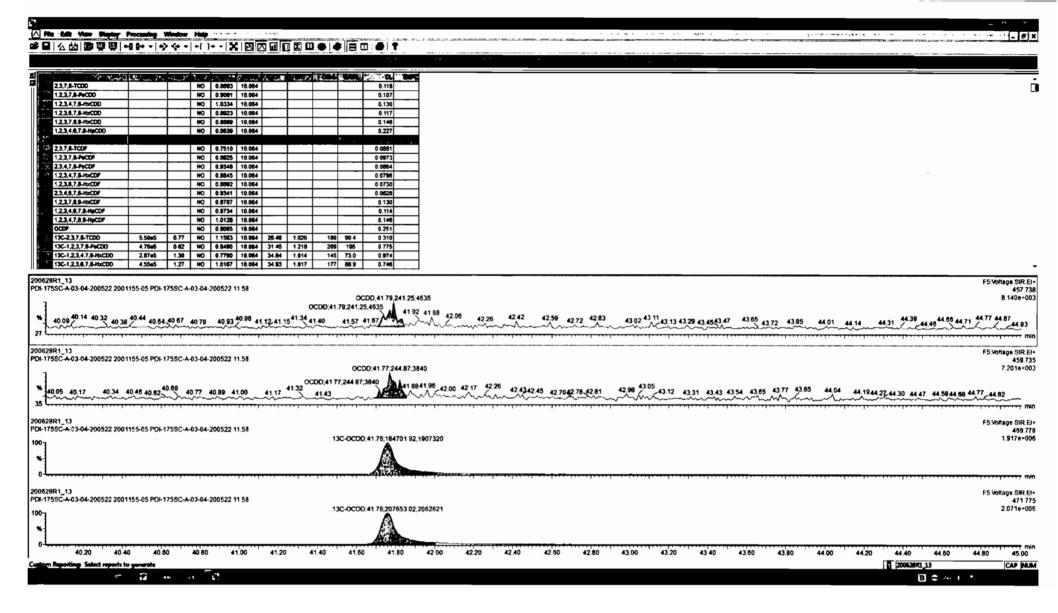




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ame: 20062	BR1_13, Date: 28-Jun-2020, Time: 19:39:49, ID: 200	01155-05 PDI-175SC-A-03-04-200522 11.58, Description: PDI-175SC-	A-03-04-200522
. <b>2,3,4,6,7,8-</b> 1	łpCDD	SN SN	F4:Voltage SIR,
	6.52 36.57 36.72 36.80 36.88 37.16 37.33 37.36 37.53 37	$S \sim S \sim S \sim S^{7.73} 37.80 37.98 38.16^{38.27} 38.36 38.67^{38.70} 38.83^{39.02} 39.29^{36} 39.07^{39.39} 39.09^{39.29} 39.29^{39} 39.09^{39}$	9.32 39.40 39.62 39.75
%- - - 0		***	
0628R1_13			F4:Voltage SIR,
	3.51 36.60 36.65 36.82 37.05 37.12 37.23 37.36 37.48 37.7	38.57 37.76 37.88 37.99 38.28 38.44 38.47 38.66 38.79 39.00 39.17 39.2 38.66 38.79 39.00 39.17 39.2	6 1280+
36.22 3 % 0 36.4	D 36.60 36.80 37.00 37.20 37.40 37.60	37.76 37.88 37.99 38.28 38.44 38.47 38.66 38.79 39.00 39.1739.2 38.66 38.79 39.00 39.1739.2	6.138e+ 28.39.31 <sup>39.51</sup> 39.63 39.77 39.98
00 36.22 3 % 0 		37.76 37.88 37.99 38.28 38.44 38.47 38.66 38.79 39.00 39.17 39.2 37.80 38.00 38.20 38.40 38.60 38.80 39.00 39.20	6.138e+4 28.39.31 <sup>39.51</sup> 39.63 39.77 39.98
<sup>00</sup> 36.22 3 % 0 	D 36.60 36.80 37.00 37.20 37.40 37.60	37.76 37.88 37.99 38.28 38.44 38.47 38.66 38.79 39.00 39.1739.2 38.66 38.79 39.00 39.1739.2	
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00 36.22 3 % 0 0 36.4 3C-1,2,3,4,6 00 36.4 3C-1,2,3,4,6 00 0 0 0 0 0 0 0 0 0 0 0 0	D 36.60 36.80 37.00 37.20 37.40 37.60	37.76 37.88 37.99 38.28 38.44 38.47 38.66 38.79 39.00 39.17 39.2 37.80 38.00 38.20 38.40 38.60 38.80 39.00 39.20 13C-1,2,3,4,6,7,8-HpCDD 38.77 1.28e5	6.138e+ 28.39.31 <sup>39.51</sup> 39.63 39.77 39.98 39.40 39.60 39.80 40.0 F4:Voltage SIR 435.
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00 36.22 3 % 0 0 36.4 3C-1,2,3,4,6 00 36.4 3C-1,2,3,4,6 00 0 0 0 0 0 0 0 0 0 0 0 0	D 36.60 36.80 37.00 37.20 37.40 37.60	37.76 37.88 37.99 38.28 38.44 38.47 38.66 38.79 39.00 39.17 39.2 37.80 38.00 38.20 38.40 38.60 38.80 39.00 39.20 13C-1,2,3,4,6,7,8-HpCDD 38.77 1.28e5	6.138e+ 28.39.31 <sup>39.51</sup> 39.63 39.77 39.98 39.40 39.60 39.80 40.0 F4:Voltage SIR, 435. 1.397e+1 F4:Voltage SIR,
00 36.22 3 % 0 36.4 3C-1,2,3,4,6 00628R1_13 00 00628R1_13 00 1 00 1 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	D 36.60 36.80 37.00 37.20 37.40 37.60	37.76 37.88 37.99 38.28 38.44 38.47 38.66 38.79 39.00 39.17 39.2 37.80 38.00 38.20 38.40 38.60 38.80 39.00 39.20 13C-1,2,3,4,6,7,8-HpCDD 38.77 1.28e5 1390041 13C-1,2,3,4,6,7,8-HpCDD 38.77 1.28e5	6.138e+ 28.39.31 <sup>39.51</sup> 39.63 39.77 39.98 39.40 39.60 39.80 40.0 F4:Voltage SIR, 435. 1.397e+ F4:Voltage SIR, 435. 1.397e+ F4:Voltage SIR, 435. 1.397e+ 54:Voltage SIR, 437.

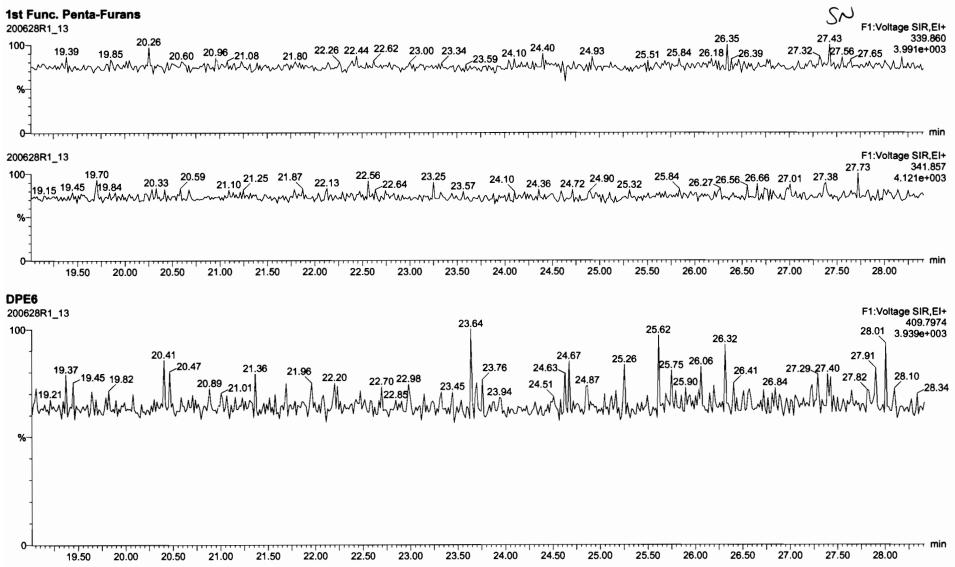
Quantify Sam Vista Analytica		Page 149 of 18
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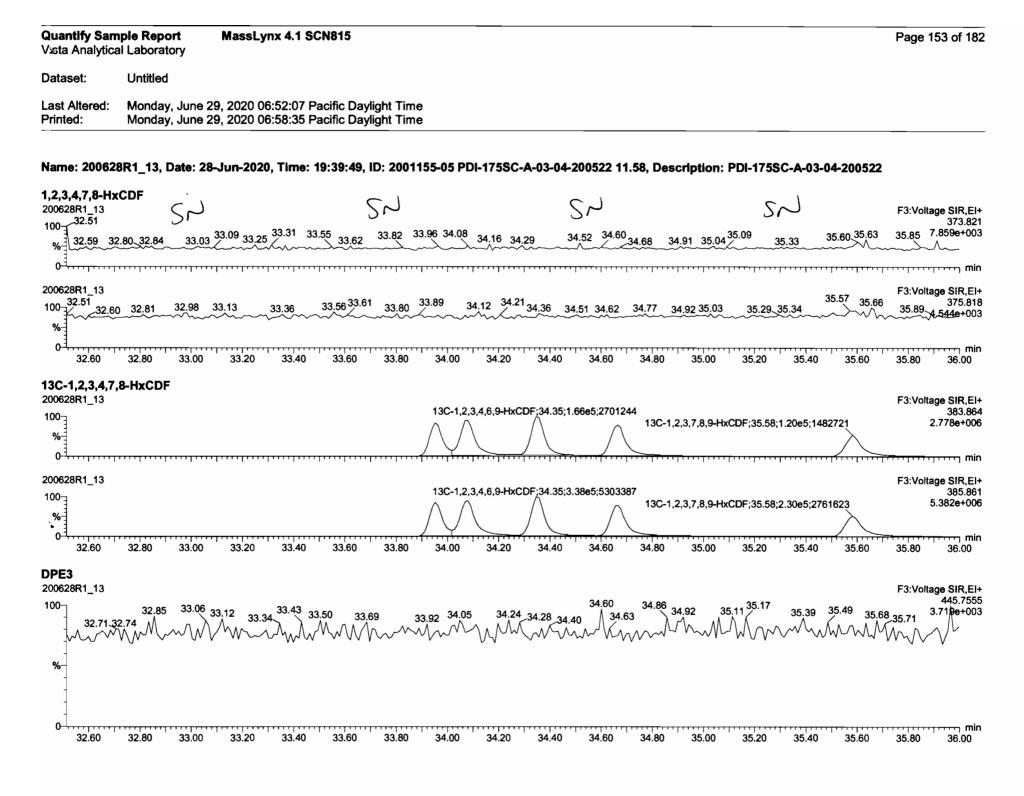


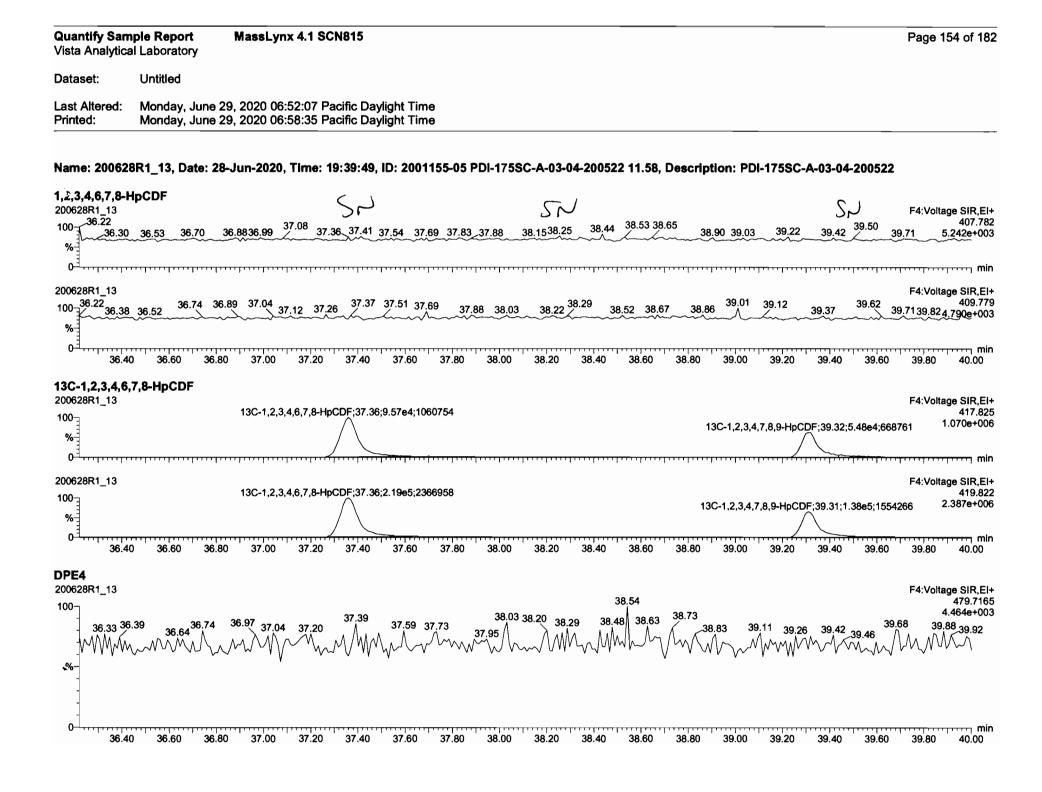
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13 Date: 28-1	un-2020 1	lime <sup>,</sup> 19 <sup>,</sup>	39.49 1	D: 20011	55-05 P	DI-175S	C-A-03-04	L200522	2 11.58. D	escrinti	on: PDI-	175SC-4	-03-04-20	00522	
			54						S~					 رک	↓ F1:Voltage SIR,E
20.23 20.54	21.01 21.2	23 21.59	22.04 2	22.65 2.55 2.55 2.55 2.55	2.85 23	3.24 2	3.77 24.12	24.27	.52 25.08	25.39 <sup>2</sup>	5.81 26.2	26.72	26.95	27.47	303.90 <sup>4</sup> 27.83 5.287e+00
9.90 20.38	20.87 20.9	9 21.29	21.9822.: ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	22.50	22.86 V	23.33 	23.91 <sup>24.</sup>	<sup>09</sup> 24.72 <sup>2</sup>	25.02.25.09	25.60	25.83	26.50	26.92 27.2	22 27.55 ~~~~~	F1:Voltage SIR,E 305.86 228.07 356e+00
20.00 20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	m 28.00
						24.1 3.37	3	1	25.59 2.88e5	$\Lambda$					F1:Voltage SIR,E 315.94 4.015e+00
						24.1 4.21	3 ∋5 ∧	1:	25.59 3.70e5	7			1		F1:Voltage SIR, 317.9 4.910e+0
20.00 20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00
											2 25.85 MMM	5,30			F1:Voltage SIR,E 375.83 4.859e+0
	20.00 20.38	20.00 20.38 20.87 20.9 20.00 20.50 21.00	anday, June 29, 2020 06:52:07 Pac priday, June 29, 2020 06:58:35 Pac <b></b>	20.00  20.38  20.87  20.99  21.29  21.90  21.50  22.00  21.50  21.50  22.00  21.50	39.99 20.23 20.54 $21.01$ 21.23 21.59 22.04 $22.55$ 22.65 21.09 20.38 20.87 20.99 21.29 21.9822.25 $22.50$ 22.00 20.50 21.00 21.50 22.00 22.50	anday, June 29, 2020 06:52:07 Pacific Daylight Time mday, June 29, 2020 06:58:35 Pacific Daylight Time <b>13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 P</b> $S \sim S \sim$	anday, June 29, 2020 06:52:07 Pacific Daylight Time mday, June 29, 2020 06:58:35 Pacific Daylight Time <b>13, Date: 28-Jun-2020, Time: 19:39:49, ID: 2001155-05 PDI-1755</b> $S \sim S \sim$	$\begin{array}{c} \text{pnday, June 29, 2020 06:52:07 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ \text{pnday, June 29, 2020 06:58:35 Pacific Daylight Time} \\ \hline \\ pnday, June 20, 20, 50 21.01 21:23 21.59 22.04 22:55 23.24 23.77 24.12 \\ \hline \\ \text{pnday, June 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,$	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{13, \text{Date: } 29, 2020 \ 06:52:07 \ \text{Pacific Daylight Time}}{13, \text{Date: } 28-Jun-2020, \text{Time: } 19:39:49, \text{ID: } 2001155-05 \ \text{PDI-175SC-A-03-04-200522 11.58}, \text{Description: PDI-175SC-A}}{SN} \\ SN \\$	$\frac{13, \text{ Date: } 29, 2020 \ 06:52:07 \ \text{Pacific Daylight Time}}{13, \text{ Date: } 28, \text{ June } 29, 2020 \ 06:58:35 \ \text{Pacific Daylight Time}}$ $\frac{13, \text{ Date: } 28, \text{ June } 29, 2020 \ 06:58:35 \ \text{Pacific Daylight Time}}{5 \text{ SN} \qquad \text{SN} \qquad $	$\frac{13, \text{ Date: } 29, 2020 \ 06:52:07 \ \text{Pacific Daylight Time}}{13, \text{ Date: } 28, June 29, 2020 \ 06:58:35 \ \text{Pacific Daylight Time}}$ $\frac{13, \text{ Date: } 28, \text{ June 2020, Time: } 19:39:49, \text{ ID: } 2001155-05 \ \text{PDI-175SC-A-03-04-200522 } 11.58, \text{ Description: PDI-175SC-A-03-04-200522 } \\ S \\ S \\ S \\ M \\ S \\ M \\ S \\ S \\ S \\ S$

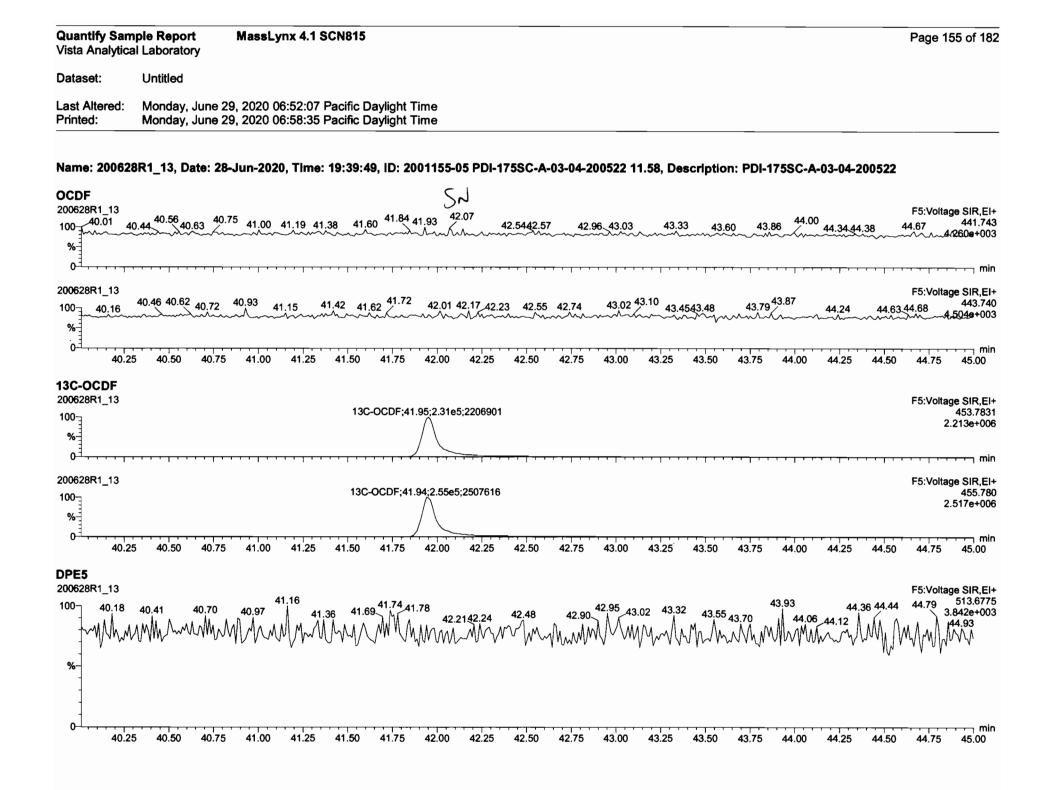
Page 151 of 182
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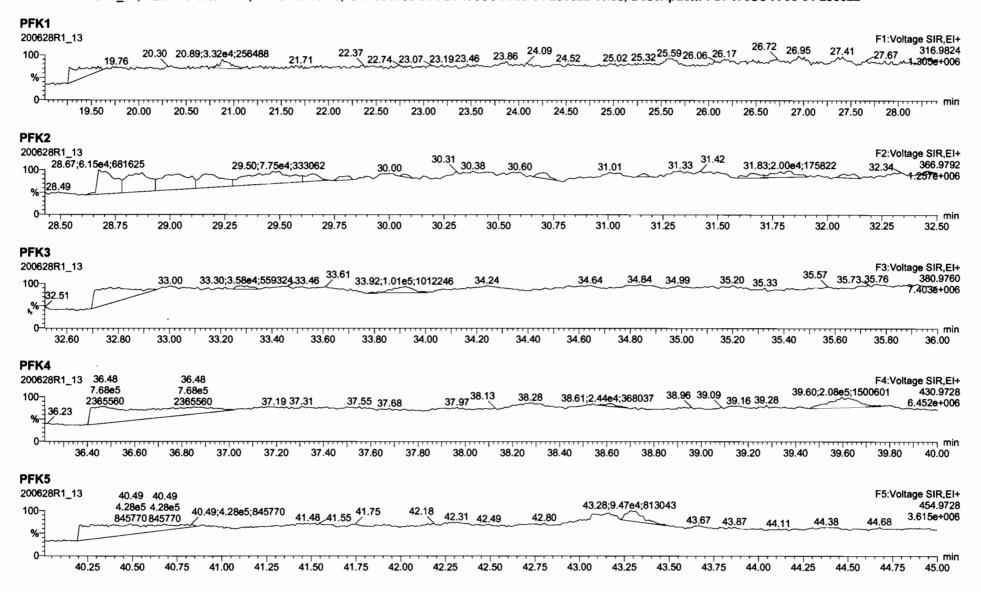
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28.52_28.5 %	57 28.86	29.0929	9.15 <u>29.27</u>	29.50	9.59 29.852	29.97 30.0	30.28 30.34	30.58	30.69 30.76	31.01	31.16 31.	36		1.80 32	12 32.24	5.298e+
0 <sup>-1</sup> 00628R1_13 00	28.83	28.93	12 29.27	29.44 29.6	29.67 29	9.83 30.03	30.37.3	0.41 30.57	30.86 <sup>30</sup>	).89 31.01	31.30 31.	36.31.39 <sup>31</sup>	1.57 <u>31.80</u>	31.98 32.0	9 32.40	tage SIR )341. ∖∕4.306e+
0 <sup>1</sup>	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.5
2 <b>C-1,2,3,7,8-</b> 0628R1_13					13C-1,2	2,3,7,8-PeCI	DF;30.17;3.99	e5;6216144	3 3.1	,7,8-PeCDI 1.15 79e5 12343						tage SIR 351 6.787e+
0 <sup>-1</sup> 0628R1_13 0		_,   , ,	· · -   · · ·		13C-1,2	2,3,7,8-PeCl	DF;30.17;2.52	e5;3911036	3	,7,8-PeCDI 1.15 36e5 74515	 - 			<u> </u>	F2:Vol	tage SIF 353 4.332e
0 <sup>-1</sup>	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.
PE2 0628R1_13																tage SIF
28.57	28.78 <sub>28.</sub> 8.70	81 29.01	9.15 29.24	29.5 29.47	9 29.83 <sup>29</sup>	.88 30.02	30.28  30.17	30.46 30.58	30.66	30.92 31	.10 31.30	31.53 31	.62 <sub>31.65</sub> 31.8	3 3 32.03	2.15	409.7 3.531e4
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01, , , , , , , , , , , , , , , , , , ,	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.5







Quantify Sam Vista Analytica	· · ·	Page 156 of 18
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# CONFIRMATION

<b>Guantify Sample Summary Report</b>	MassLynx 4.1
Vista Analytical Laboratory	

Page 1 of 1

Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_17.qld

Last Altered:	Thursday, July 09, 2020 10:22:06 Pacific Daylight Time
Printed:	Thursday, July 09, 2020 10:22:18 Pacific Daylight Time

DB 7/9/20 0209/09/2000

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# Name: 200708D1\_17, Date: 08-Jul-2020, Time: 18:36:13, ID: 2001155-02RE1 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522

1 2,3,7,8-TCDF 2 13C-2,3,7,8-TCDF 3 13C-1,2,3,4-TCDF	Rece	RA	··· n/y	RRF	Wt/yol	ProtiRR	- <b>R</b>			A Concert			
1 2,3,7,8-TCDF	2.69e2	0.68	NO	0.982	10.133 🖌	16.936	16.96	1.000	1.001	0.38724		0.273	0.387
2 13C-2,3,7,8-TCDF	1.40e5	0.78	NO	1.08	10.133	16.894	16.94	1.133	1.135	98.665	50.0	0.413	
3 13C-1,2,3,4-TCDF	2.58e5	0.76	NO	1.00	10.133	15.060	14.92	1.000	1.000	197.38	100	0.448	

#### Quantify Sample Report MassLynx 4.1

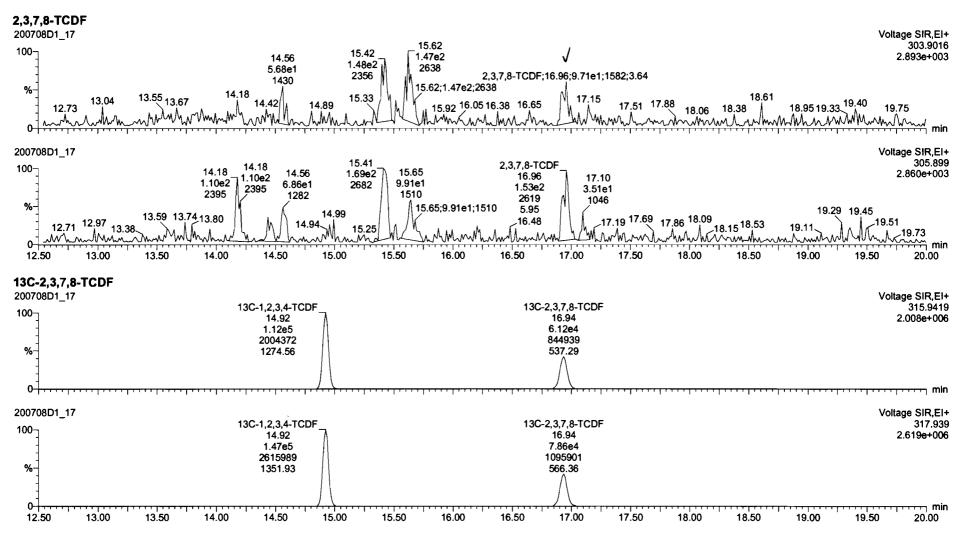
Vista Analytical Laboratory VG-10

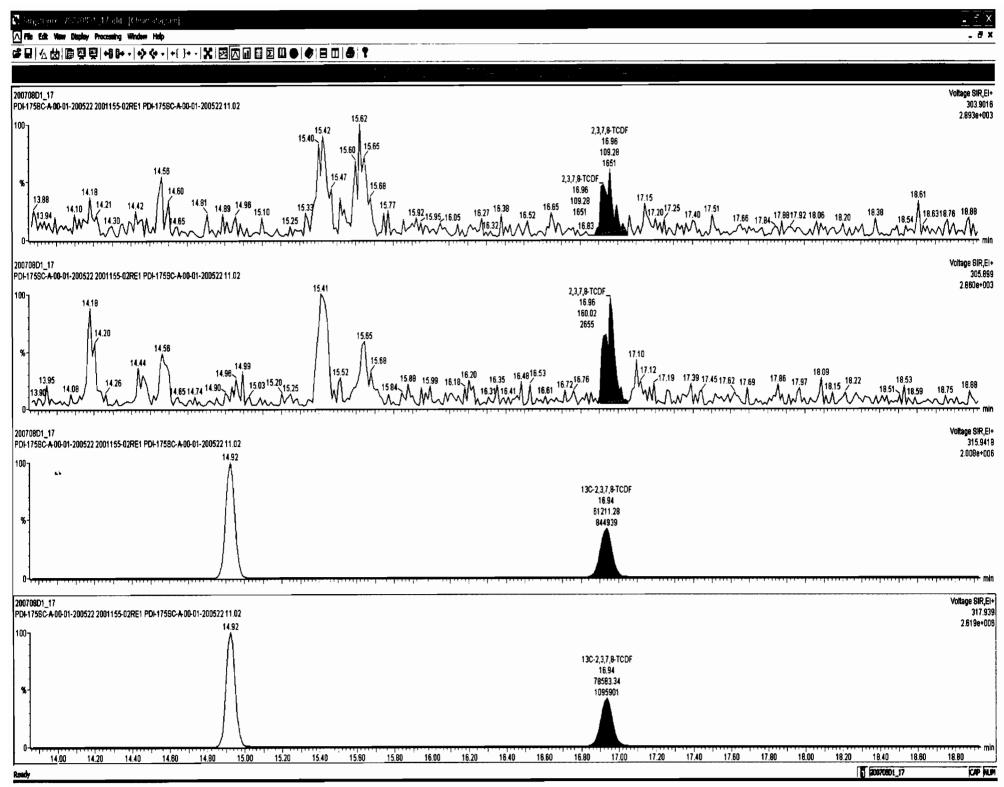
Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_17.qld

Last Altered:	Thursday, July 09, 2020 10:20:20 Pacific Daylight Time
Printed:	Thursday, July 09, 2020 10:21:27 Pacific Daylight Time

#### Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52 Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

# Name: 200708D1\_17, Date: 08-Jul-2020, Time: 18:36:13, ID: 2001155-02RE1 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522



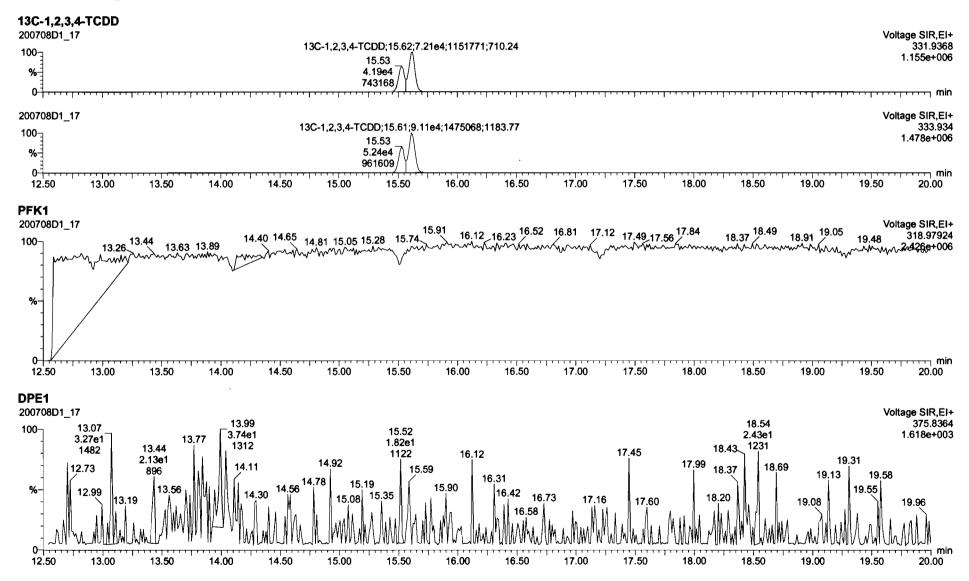


Work Order 2001155

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Quantify Sam Vista Analytica	ple Report MassLynx 4.1 I Laboratory VG-10	Page 2 of 2
Dataset:	U:\VG7.PRO\Results\200708D1\200708D1_17.qld	
Last Altered: Printed:	Thursday, July 09, 2020 10:20:20 Pacific Daylight Time Thursday, July 09, 2020 10:21:27 Pacific Daylight Time	

### Name: 200708D1\_17, Date: 08-Jul-2020, Time: 18:36:13, ID: 2001155-02RE1 PDI-175SC-A-00-01-200522 11.02, Description: PDI-175SC-A-00-01-200522



Work Order 2001155

# CONTINUING CALIBRATION

# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID: 57200623,)2 -	1		Reviewed By: <u>C7 06/24/2020</u>	_	
End Calibration ID:	_		Initials & Vale		
	Beg.	End		Beg.	End
Ion abundance within QC limits?		NA	Mass resolution >	~	~
Concentrations within criteria?	Ĭ	Ŧ	□ 5k □ 6-8K □ 8K ☑ 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	~	φ	Intergrated peaks display correctly?	~	NA
First and last eluters present?		ф	GC Break <20%		
<b>Retention Times within criteria?</b>	/	Ф	8280 CS1 End Standard:		,
Verification Std. named correctly?		ф	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		NA
(ST-Year-Month-Day-VG iD)					
Forms signed and dated?		F	Comments:		
Correct ICAL referenced?	DB	DB			
Run Log:					
- Correct instrument listed?	$\checkmark$	NA			
- Samples within 12 hour clock?	Ø	Ν			
- Bottle position verfied?	DI	B			

Vista Analytica	pie Summary Report MassLynx 4.1 I Laboratory	
Dataset:	U:\VG7.PRO\Results\200623D2\200623D2_2.qld	
Last Altered: Printed:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time Wednesday, June 24, 2020 10:31:12 Pacific Daylight Time	

# Page 1 of 2

CM 06/24/2020

# Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

# Name: 200623D2\_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

100	# 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	5.18e3	0.78	NO	0.986	1.000	26.082	26.08	1.001	1.001	9.0592	90.6 78-129	0.226	9.06
2	2 1,2,3,7,8-PeCDD	1.87e4	0.63	NO	0.964	1.000	30.630	30.63	1.001	1.001	45.716	91.478-130	0.309	45.7
3	3 1,2,3,4,7,8-HxCDD	1.69 <del>e</del> 4	1.31	NO	1.16	1.000	33.916	33.93	1.000	1.001	46.645	93.378-178	0.485	46.6
4	4 1,2,3,6,7,8-HxCDD	1.75e4	1.20	NO	1.01	1.000	34.016	34.03	1.000	1.000	42.919	85.8 78 -178	0.464	42.9
5	5 1,2,3,7,8,9-HxCDD	1.60e4	1.26	NO	1.01	1.000	34.346	34.32	1.001	1.000	44.550	89.182-122	0.580	44.6
6	6 1,2,3,4,6,7,8-HpCDD	1.31e4	1.03	NO	0.997	1.000	37.802	37.80	1.000	1.000	44.888	89.8 56 -116	0.823	44.9
7	7 OCDD	2.38e4	0.90	NO	1.01	1.000	41.038	41.05	1.000	1.000	90.978	91.0 79-176	0.825	91.0
8	8 2,3,7,8-TCDF	6.68e3	0.81	NO	0.833	1.000	25.281	25.27	1.001	1.001	9.1543	91.5 94 - 120	0.208	9.15
9	9 1,2,3,7,8-PeCDF	3.08e4	1.60	NO	0.965	1.000	29.442	29.44	1.001	1.001	47.088	94.282-120	0.277	47.1
10	10 2,3,4,7,8-PeCDF	3.04 <del>e</del> 4	1.60	NO	1.01	1.000	30.357	30.33	1.001	1.000	46.621	93.282-120	0.271	46.6
11	11 1,2,3,4,7,8-HxCDF	2.48e4	1.28	NO	1.09	1.000	33.028	33.04	1.000	1.000	49.810	99.690-112	0.420	49.8
12	12 1,2,3,6,7,8-HxCDF	2.73e4	1.32	NO	1.07	1.000	33.159	33.17	1.000	1.001	48.809	97.6 88 - 114	0.361	48.8
13	13 2,3,4,6,7,8-HxCDF	2.50e4	1.26	NO	1.15	1.000	33.775	33.75	1.001	1.000	47.348	94.7 88 - 114	0.443	47.3
14	14 1,2,3,7,8,9-HxCDF	1.98e4	1.28	NO	1.11	1.000	34.685	34.70	1.000	1.000	47.985	96.0 90-112	0.645	48.0
15	15 1,2,3,4,6,7,8-HpCDF	2.04e4	1.03	NO	1.16	1.000	36.554	36.53	1.001	1.000	46.494	93.0 90 - 110	0.576	46.5
16	16 1,2,3,4,7,8,9-HpCDF	1.69e4	1.04	NO	1.35	1.000	38.328	38.34	1.000	1.000	49.184	98.4 86 - 116	0.694	49.2
17	17 OCDF	2.92e4	0.86	NO	0.949	1.000	41.247	41.27	1.000	1.001	97.560	97.663-159	0.658	97.6
18	18 13C-2,3,7,8-TCDD	5.80e4	0.79	NO	1.26	1.000	26.147	26.05	1.026	1.022	94.755	94.8 82 -121	1.35	
19	19 13C-1,2,3,7,8-PeCDD	4.25e4	0.62	NO	0.921	1.000	30.633	30.61	1.202	1.201	94.878	94.9 62 -160	0.444	
20	20 13C-1,2,3,4,7,8-HxCDD	3.12e4	1.38	NO	0.707	1.000	33.902	33.91	1.014	1.014	98.710	98.785-117	0.890	
21	21 13C-1,2,3,6,7,8-HxCDD	4.06e4	1.32	NO	0.829	1.000	34.013	34.02	1.017	1.017	109.72	110 85 - 118	0.760	
22	22 13C-1,2,3,7,8,9-HxCDD	3.57e4	1.18	NO	0.808	1.000	34.283	34.31	1.025	1.026	98.873	98.9 85 -118	0.779	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.92e4	1.07	NO	0.662	1.000	37.747	37.79	1.129	1.130	98.942	98.9 72-138	1.44	
24	24 13C-OCDD	5.16e4	0.91	NO	0.608	1.000	40.770	41.04	1.219	1.227	190.18	95.148 -207	1.02	
25	25 13C-2,3,7,8-TCDF	8.76e4	0.77	NO	1.07	1.000	25.230	25.26	0.990	0.991	101.68	102 71-140	1.01	
28	26 13C-1,2,3,7,8-PeCDF	6.79e4	1.67	NO	0.826	1.000	29.453	29.42	1.156	1.154	101.81	102 76-130	0.946	
27	27 13C-2,3,4,7,8-PeCDF	6.45e4	1.63	NO	0.796	1.000	30.352	30.33	1.191	1.190	100.43	100 77-130	0.981	
28	28 13C-1,2,3,4,7,8-HxCDF	4.54e4	0.49	NO	1.08	1.000	33.033	33.03	0.988	0.988	94.574	94.6 76 - 131	0.864	
29	29 13C-1,2,3,6,7,8-HxCDF	5.24e4	0.48	NO	1.12	1.000	33.167	33.15	0.992	0.991	104.41	104 70-143	0.826	
30	30 13C-2,3,4,6,7,8-HxCDF	4.58e4	0.47	NO	1.02	1.000	33.738	33.74	1.009	1.009	100.11	100 73-137	0.907	
31	31 13C-1,2,3,7,8,9-HxCDF	3.70e4	0.52	NO	0.887	1.000	34.638	34.69	1.036	1.037	93.550	93.674-135	1.05	

Quantify Sample Summary Report	MassLynx 4.1
Vista Analytical Laboratory	

Page 2 of 2

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_2.qld

Last Altered:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 10:31:12 Pacific Daylight Time

# Name: 200623D2\_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

SAME SUC	# 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	3.78e4	0.44	NO	0.811	1.000	36.343	36.52	1.087	1.092	104.52	105 78-129	0.981	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.55e4	0.43	NO	0.598	1.000	38.349	38.33	1.147	1.146	95.545	95.5 77-129	1.33	
34	34 13C-OCDF	6.30e4	0.89	NO	0.752	1.000	40.923	41.25	1.224	1.234	187.72	93.9 48- 207	0.909	
35	35 37CI-2,3,7,8-TCDD	5.26e3			1.24	1.000	26.145	26.07	1.026	1.023	8.7030	87.0 79-127	0.145	
36	36 13C-1,2,3,4-TCDD	4.86e4	0.84	NO	1.00	1.000	25.480	25.48	1.000	1.000	100.00	100	1.70	
37	37 13C-1,2,3,4-TCDF	8.07e4	0.79	NO	1.00	1.000	24.020	24.02	1.000	1.000	100.00	100	1.07	
38	38 13C-1,2,3,4,6,9-HxCDF	4.46e4	0.50	NO	1.00	1.000	33.530	33.43	1.000	1.000	100.00	100	0.929	

# Quantify Sample Summary Report MassLynx 4.1 Vista Analytical Laboratory MassLynx 4.1

Dataset: Untitled

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Last Altered: Wednesday, June 24, 2020 10:33:04 Pacific Daylight Time Printed: Wednesday, June 24, 2020 10:33:22 Pacific Daylight Time

#### Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 18 May 2020 14:57:34 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

# Name: 200623D2\_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

11 19 1	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.61
2	2 1,2,8,9-TCDD (Last)	26.94
3	3 1,2,4,7,9-PeCDD (First)	28.58
4	4 1,2,3,8,9-PeCDD (Last)	30.99
5	5 1,2,4,6,7,9-HxCDD (First)	32.40
6	6 1,2,3,7,8,9-HxCDD (Last)	34.32
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.93
8 ;	8 1,2,3,4,6,7,8-HpCDD (Last)	37.80
9	9 1,3,6,8-TCDF (First)	20.44
10	10 1,2,8,9-TCDF (Last)	27.07
11	11 1,3,4,6,8-PeCDF (First)	27.04
12	12 1,2,3,8,9-PeCDF (Last)	31.21
13	13 1,2,3,4,6,8-HxCDF (First)	31.86
14	14 1,2,3,7,8,9-HxCDF (Last)	34.70
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.53
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.34

# Quantify Compound Summary Report MassLynx 4.1 Vista Analytical Laboratory VG-11 Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, June 24, 2020 10:29:10 Pacific Daylight Time Printed: Wednesday, June 24, 2020 10:29:27 Pacific Daylight Time

# Method: C:\MassLynx\Default.pro\Methdb\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

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

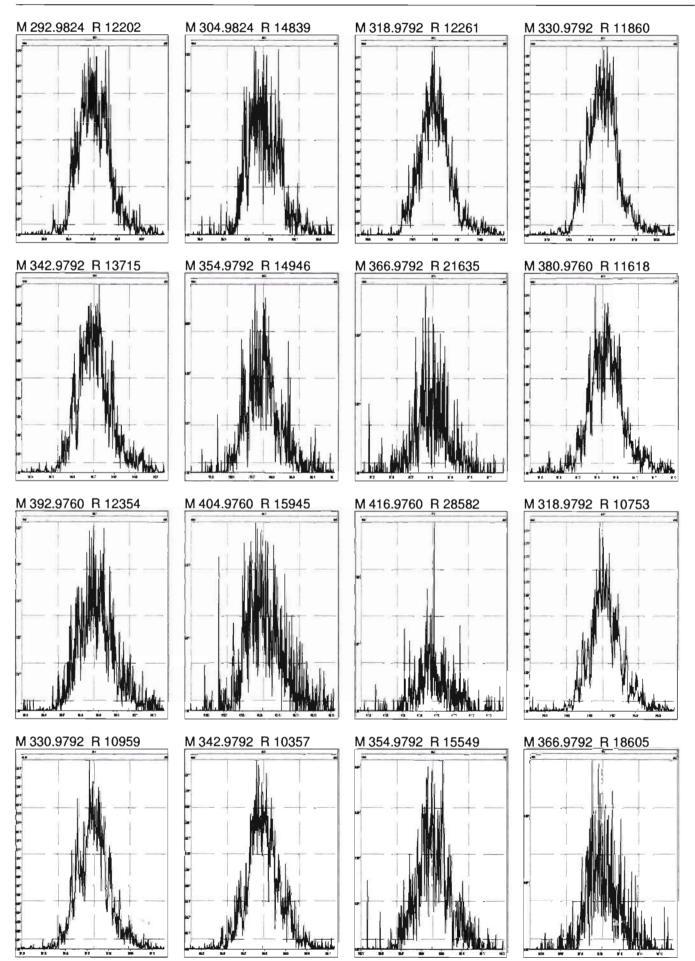
1 Carlo	Name	ID	Acq.Date	Acq.Time
1 2/2	200623D2_1	SOLVENT BLANK	23-Jun-20	21:25:21
2	200623D2_2	ST200623D2-1 1613 CS3 19L2305	23-Jun-20	22:10:32
3	200623D2_3	B0F0086-BS1 OPR 10	23-Jun-20	22:55:42
4	200623D2_4	SOLVENT BLANK	23-Jun-20	23:40:53
5	200623D2_5	B0F0086-BLK1 Method Blank 10	24-Jun-20	00:26:03
6	200623D2_6	B0F0086-DUP1 Duplicate 16.73	24-Jun-20	01:11:12
7	200623D2_7	2000996-02RE1 PDI-054SC-A-10-11.1-20042	24-Jun-20	01:56:22
8	200623D2_8	2001007-04RE1 PDI-058SC-B-00-02-200505	24-Jun-20	02:41:32
9	200623D2_9	2001007-05RE1 PDI-058SC-B-02-05-200505	24-Jun-20	03:26:41
10	200623D2_10	2001007-06RE1 PDI-058SC-B-05-07-200505	24-Jun-20	04:11:51

# **Resolution Check Report**

# MassLynx 4.1



Tuesday, June 23, 2020 21:25:23 Pacific Daylight Time



Work Order 2001155

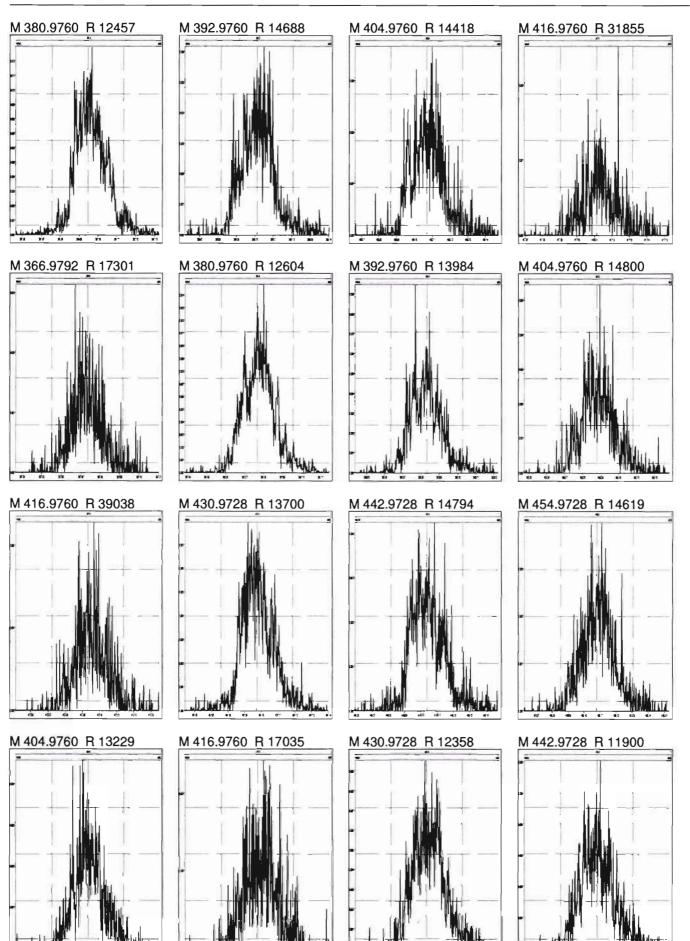
Page 211 of 638

# **Resolution Check Report**

# MassLynx 4.1

Printed:

Tuesday, June 23, 2020 21:25:23 Pacific Daylight Time



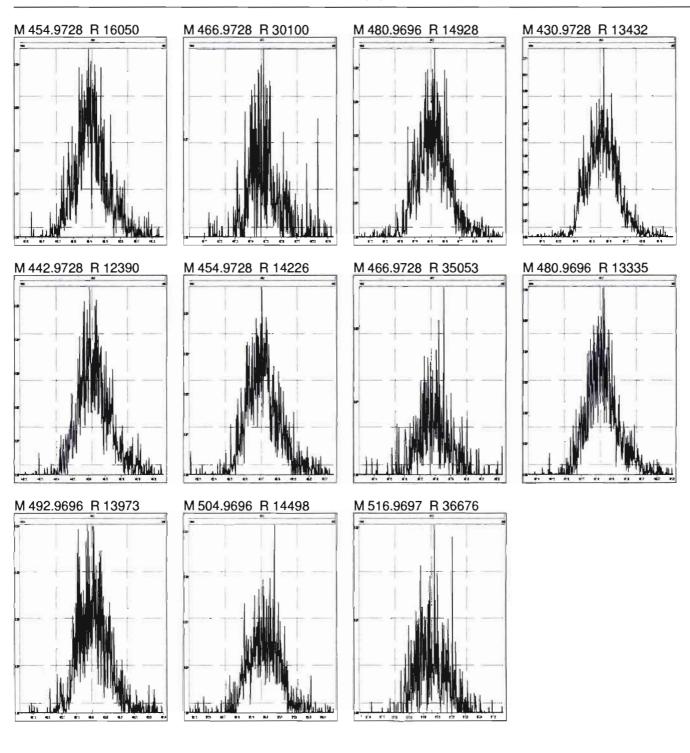
Work Order 2001155

# **Resolution Check Report**

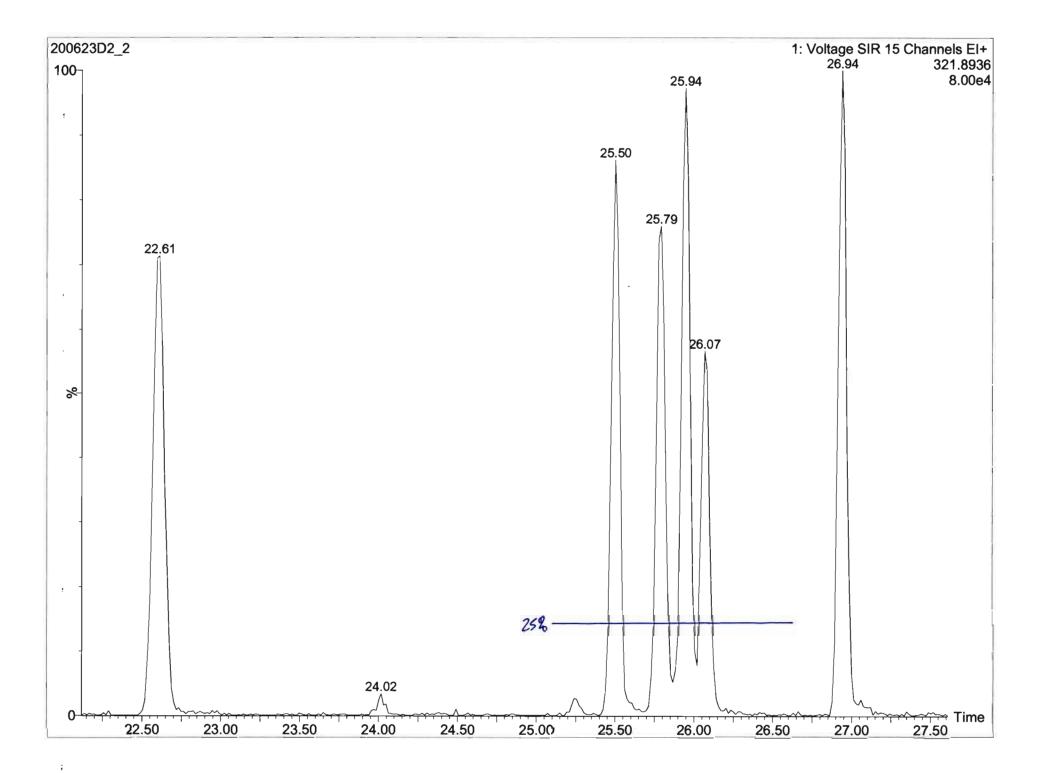
# MassLynx 4.1

Printed:

Tuesday, June 23, 2020 21:25:23 Pacific Daylight Time



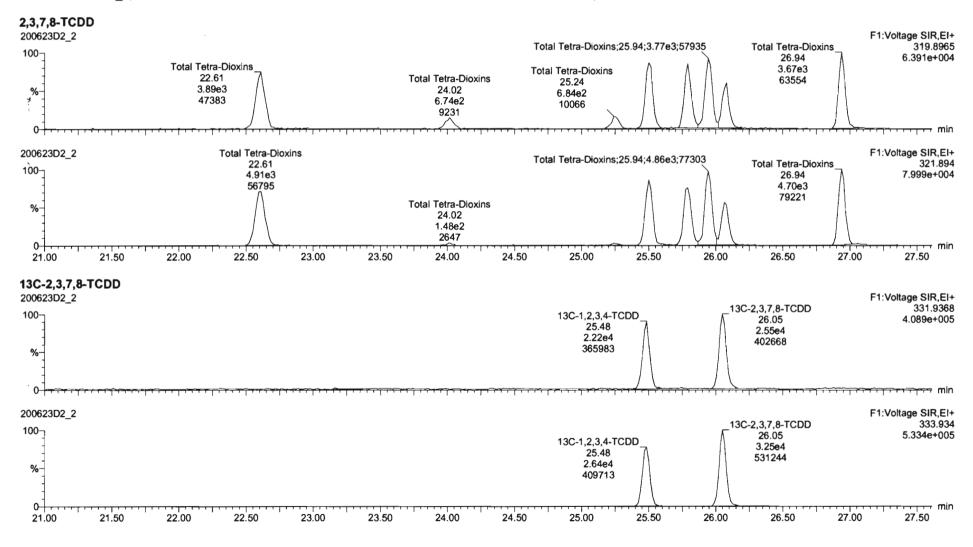
2.2



Quantify Sam Vista Analytica		Page 1 of 13
Dataset:	U:\VG7.PRO\Results\200623D2\200623D2_2.qld	
Last Altered: Printed:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time	

#### Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

### Name: 200623D2\_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Quantify Sample Report	MassLynx 4.1
Vista Analytical Laboratory	

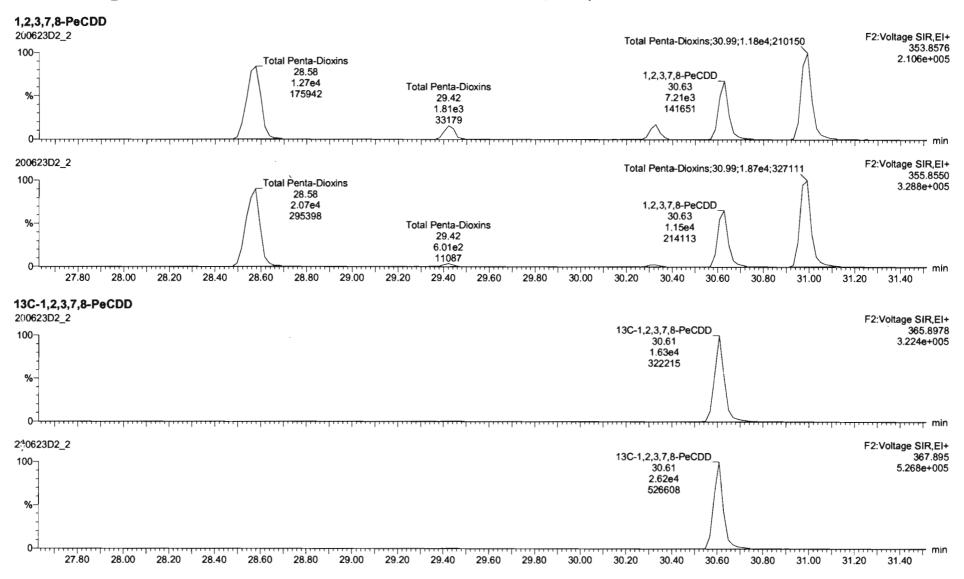
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Last Altered:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time

# Name: 200623D2\_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

37CI-2,3,7,8-TCDD 200623D2\_2 F1:Voltage SIR,EI+ 37CI-2,3,7,8-TCDD 327.884 100 -26.07 8.177e+004 5.26e3 81561 % min er T 0 25.50 26.00 26.50 23.00 23.50 24.00 24.50 25.00 27.00 27.50 21.00 21.50 22.00 22.50 13C-1,2,3,4-TCDD 200623D2\_2 F1:Voltage SIR,EI+ 13C-2,3,7,8-TCDD 331.9368 100-13C-1,2,3,4-TCDD 26.05 4.089e+005 25.48 2.55e4 ۰. 2.22e4 402668 365983 %min <del>erferenting</del> 0 F1:Voltage SIR,EI+ 200623D2\_2 13C-2,3,7,8-TCDD 333.934 100-26.05 5.334e+005 13C-1,2,3,4-TCDD 3.25e4 25.48 531244 2.64e4 %-409713 0--- min 26.00 26.50 27.00 27.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50

Quantify Sam Vista Analytica		Page 3 of 13
Dataset:	U:\VG7.PRO\Results\200623D2\200623D2_2.qld	
Last Altered: Printed:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time	

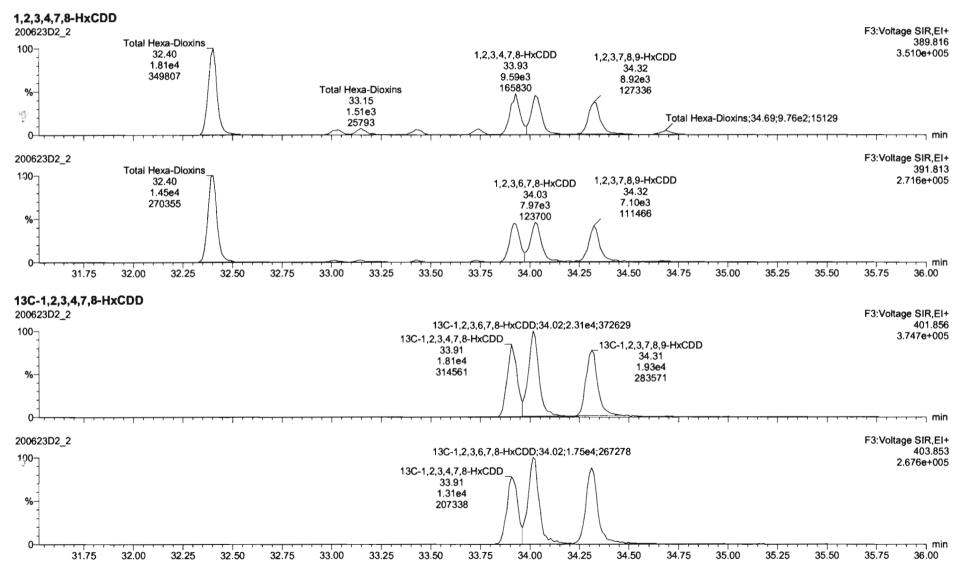


# Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_2.qld

Last Altered:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time

#### Náme: 200623D2\_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

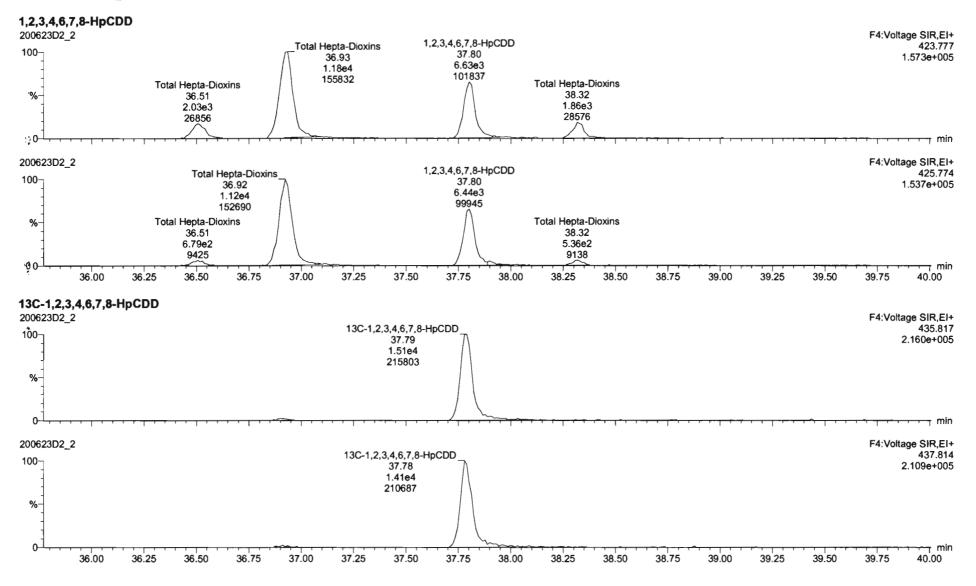


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#### Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_2.qld

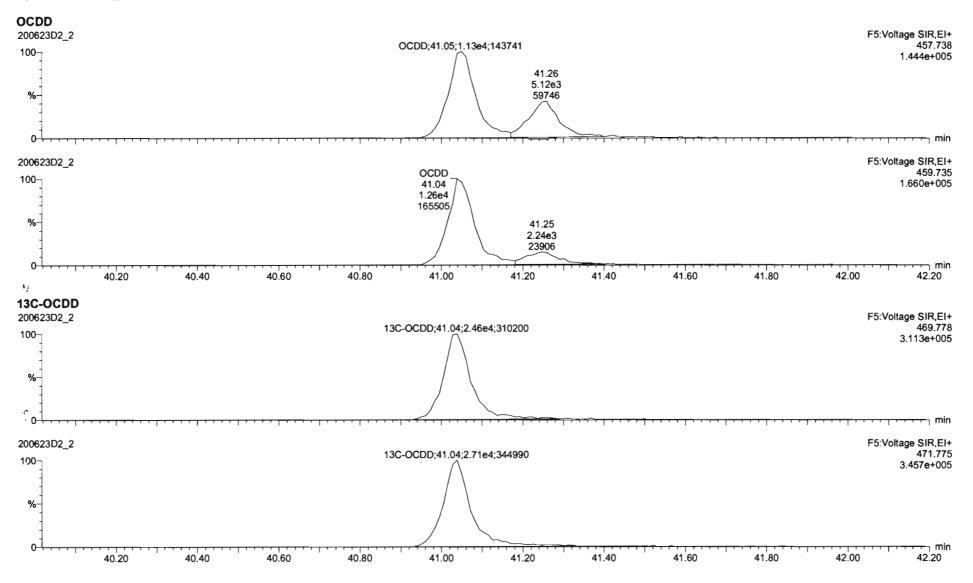
Last Altered:Wednesday, June 24, 2020 10:29:41 Pacific Daylight TimePrinted:Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time

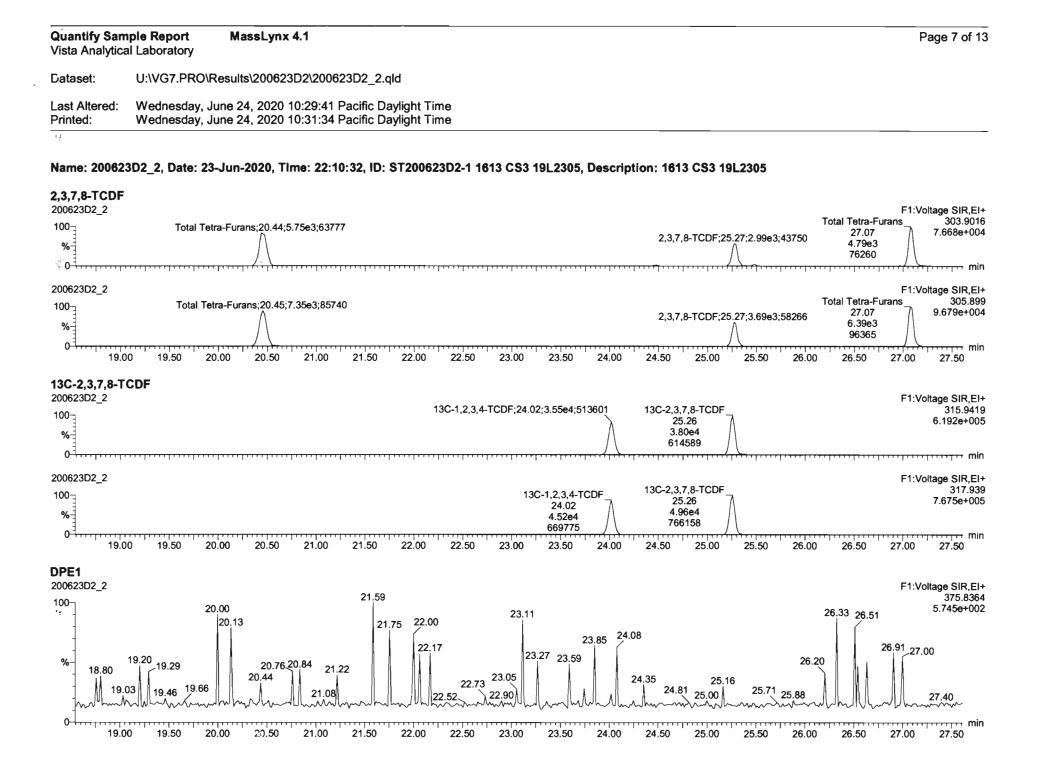


# Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_2.qld

Lest Altered:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time
P. inted:	Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time



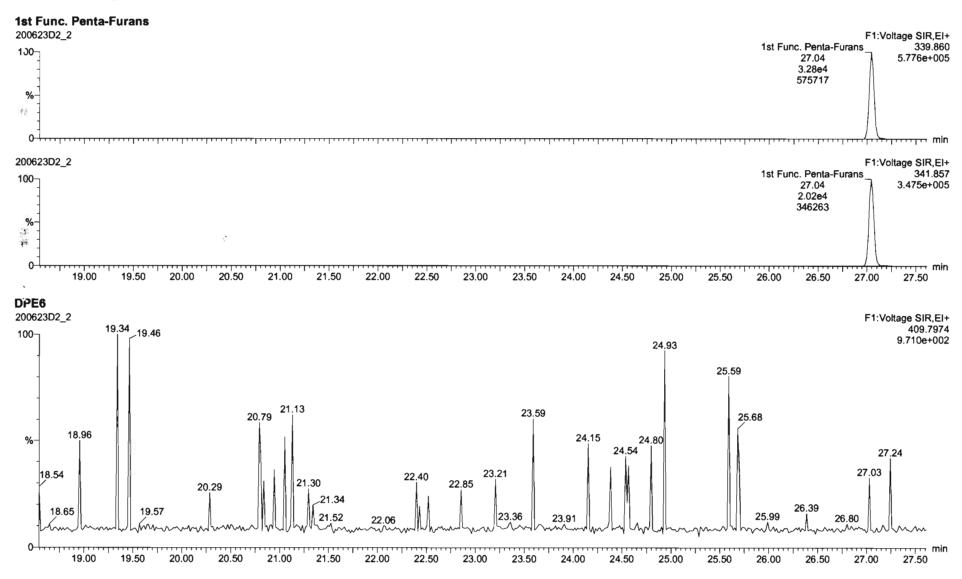


# Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_2.qld

Last Altered:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time

#### Name: 200623D2\_2, Date: 23-Jun-2020, Time: 22:10:32, ID: ST200623D2-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Work Order 2001155

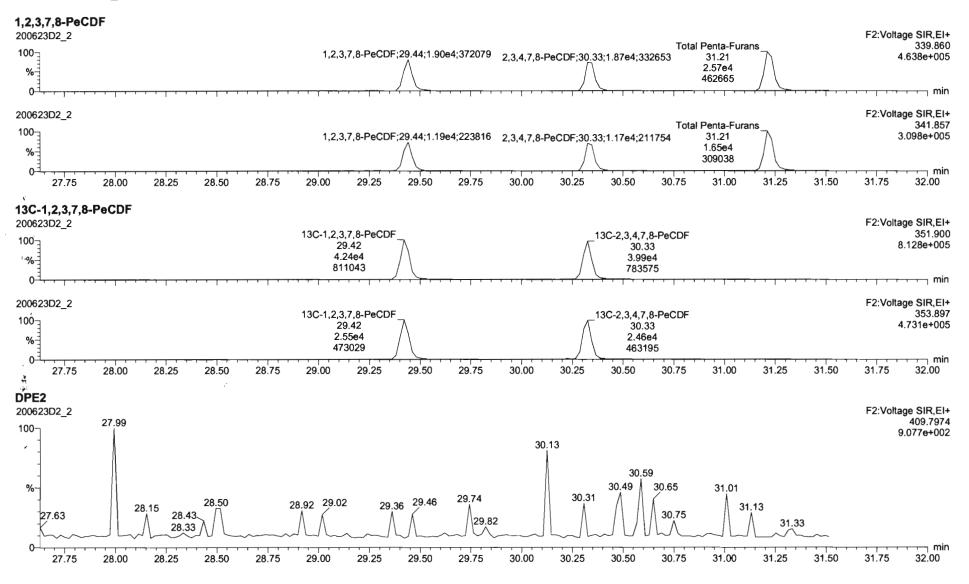
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# Quantify Sample Report MassLynx 4.1

Vista Analytical Laboratory

# Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_2.qld

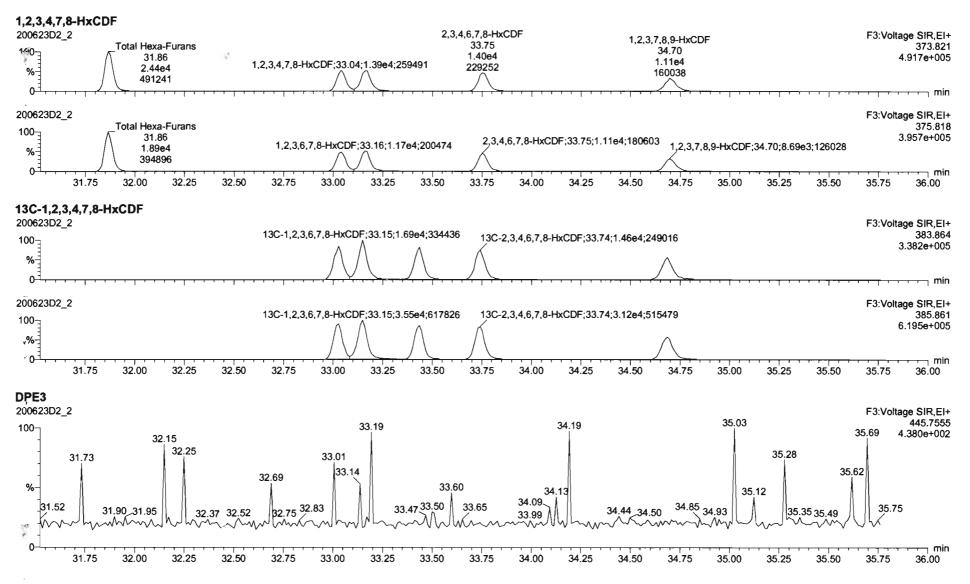
Last Altered:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time



#### Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_2.qld

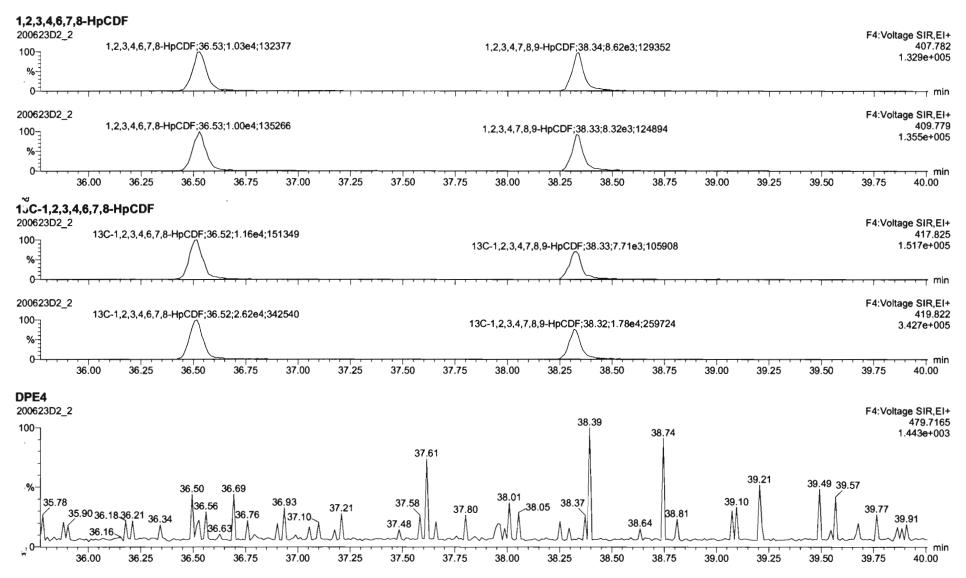
Läst Altered: Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time Printed: Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time



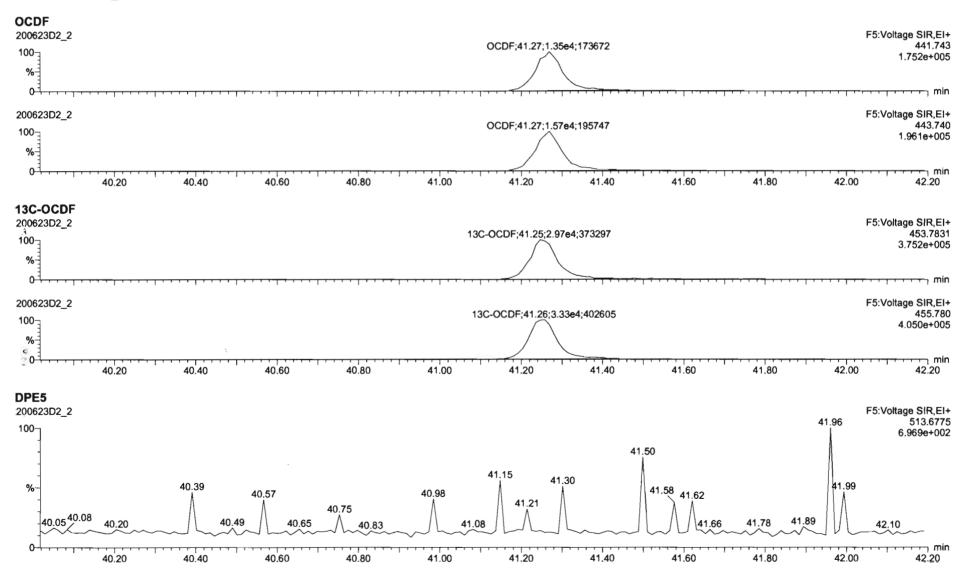
# Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory MassLynx 4.1

Dataset: U:\VG7.PRO\Results\200623D2\200623D2\_2.qld

Last Altered:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time
Printed:	Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time



Quantify San Vista Analytic		Page 12 of 13
Dataset:	U:\VG7.PRO\Results\200623D2\200623D2_2.qld	
Last Altered: Printed:	Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time	

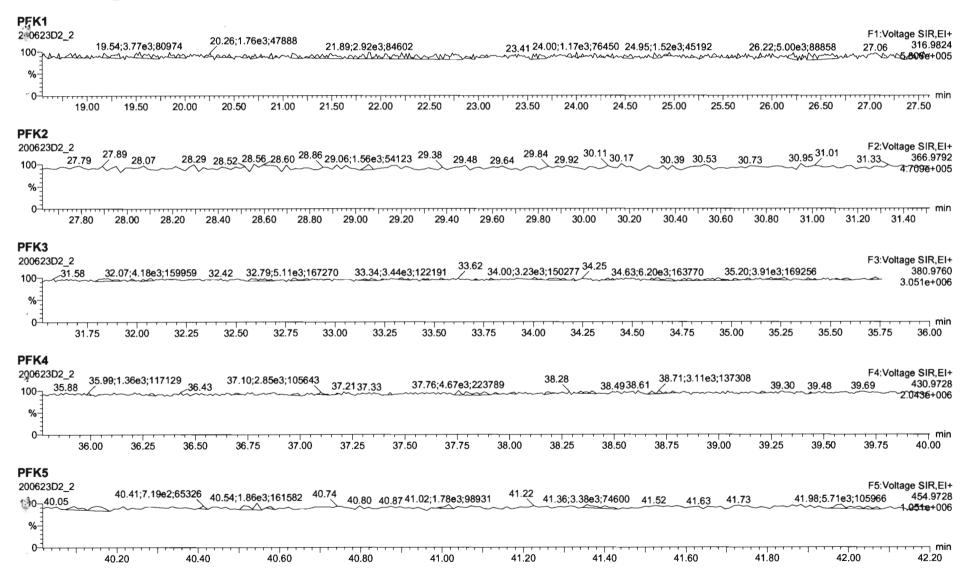


#### Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory

Page 13 of 13

Cristaset: U:\VG7.PRO\Results\200623D2\200623D2\_2.qld

Last Altered: Wednesday, June 24, 2020 10:29:41 Pacific Daylight Time Printed: Wednesday, June 24, 2020 10:31:34 Pacific Daylight Time

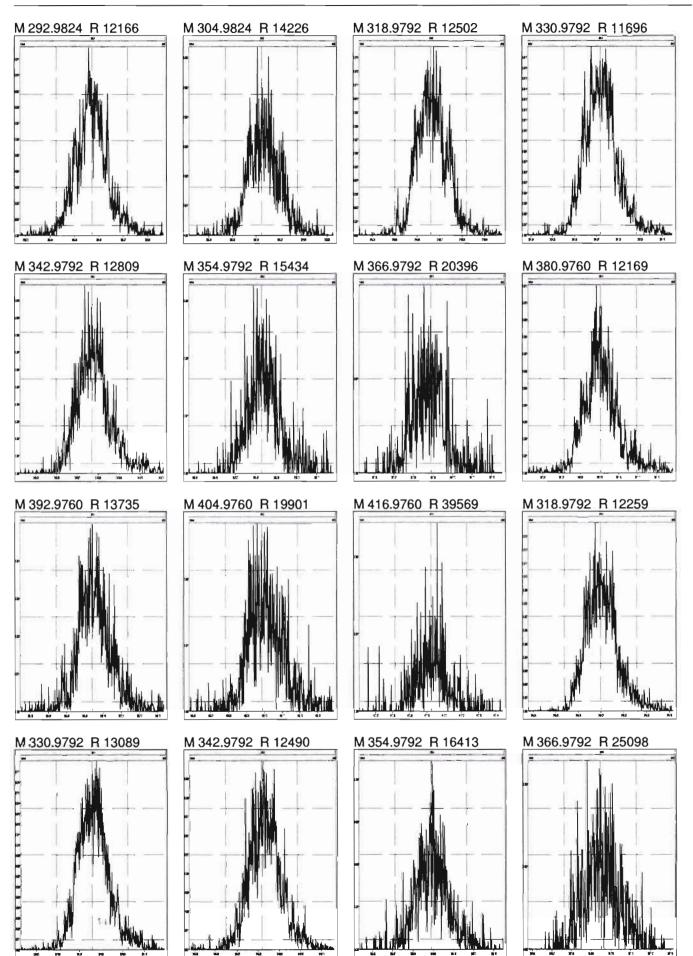


### **Resolution Check Report**

## MassLynx 4.1



Wednesday, June 24, 2020 05:05:31 Pacific Daylight Time



Work Order 2001155

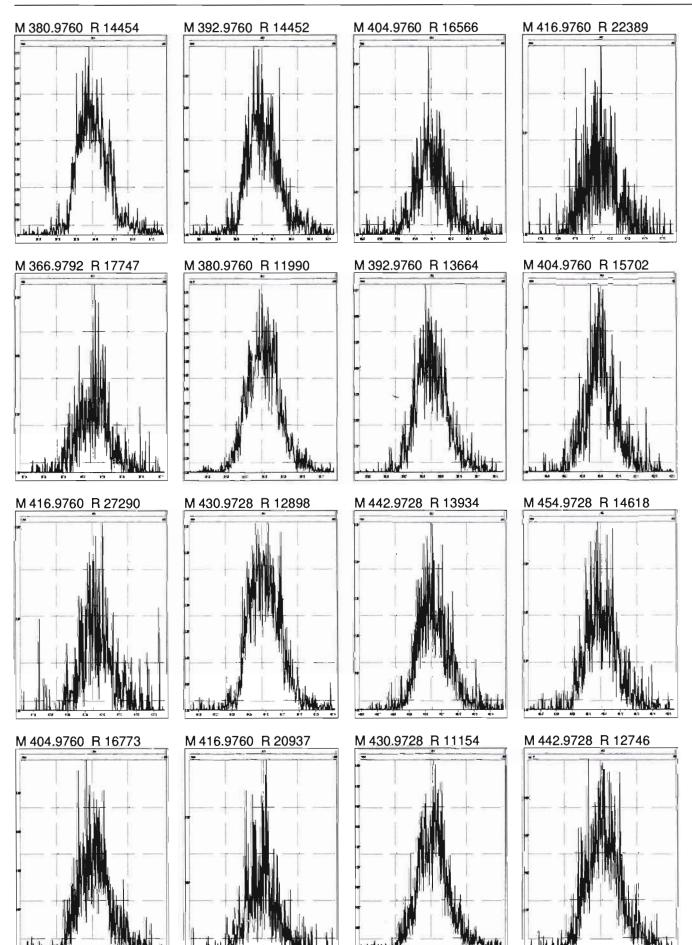
Page 228 of 638

### **Resolution Check Report**

### MassLynx 4.1



Wednesday, June 24, 2020 05:05:31 Pacific Daylight Time



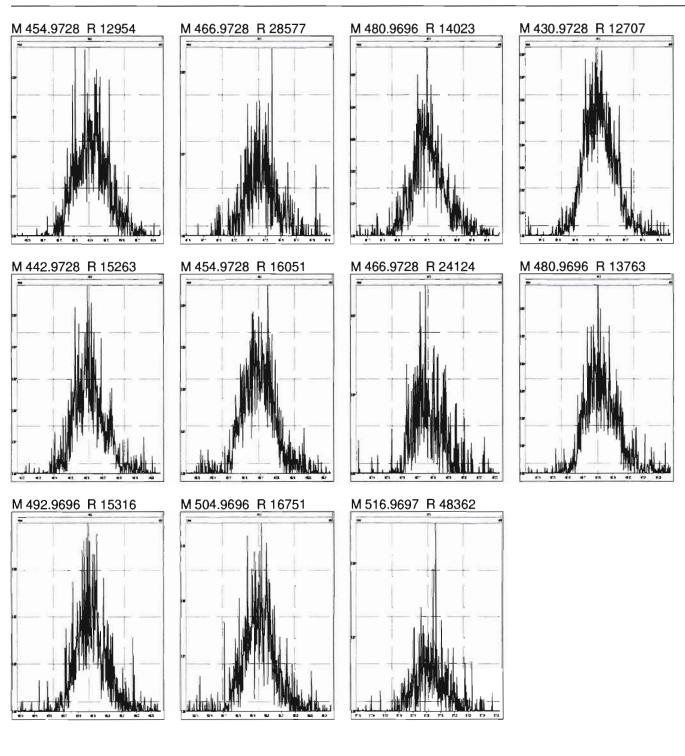
Work Order 2001155

# **Resolution Check Report**

# MassLynx 4.1

Printed:

Wednesday, June 24, 2020 05:05:31 Pacific Daylight Time



# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID:ST200628P1-		R	initiais & Date	-	
End Calibration ID:NA					
	Beg.	End		Beg.	End
Ion abundance within QC limits?	1	NA	Mass resolution $\geq$	~	~
<b>Concentrations within criteria?</b>	$\checkmark$	¢	□ 5k □ 6-8K □ 8K 対 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	1		Intergrated peaks display correctly?	1	NA
First and last eluters present?			GC Break <20%		
<b>Retention Times within criteria?</b>	1		8280 CS1 End Standard:		
Verification Std. named correctly?			- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		NA
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?	V		Comments:		
Correct ICAL referenced?	GRO				
Run Log:					
- Correct instrument listed?	1	V			
- Samples within 12 hour clock?	Ŷ	N			
- Bottle position verfied?	G	RB			

Quantify Sam Vista Analytica	ple Summary Report MassLynx 4.1 SCN815 al Laboratory	Page 1 of 2
Dataset:	U:\VG12.PRO\Results\200628R1\200628R1-1.qld	
Last Altered: Printed:	Monday, June 29, 2020 06:42:23 Pacific Daylight Time Monday, June 29, 2020 06:42:53 Pacific Daylight Time	GEB 06/29/20
	G12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45	C7 06/29/2020

#### 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	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	5.44e4	5.76e5	0.75	NO	0.888	26.50	26.48	NO	1.001	1.001	10.633	106	NO
2	2 1.2.3.7 8-PeCDD	1.71e5	4.06e5	0.64	NO	0 908	31.46	31 45	NO	1.001	1.000	46.533	93.1	NO
3	3 1.2.3.4.7.8-HxCDD	1.27e5	2.55e5	1.25	NO	1.03	34.82	34.84	NO	1.000	1.001	48.387	96.8	NO
4	4 1.2.3.6.7.8-HxCDD	1.99e5	4.42e5	1.21	NO	0.892	34.92	34 93	NO	1.000	1.000	50.508	101	NO
5	5 1,2,3,7,8,9-HxCDD	1.60e5	3.72e5	1.21	NO	0.887	35.22	35.22	NO	1.000	1.000	48 601	97.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.04e5	2.43e5	1.02	NO	0.864	38.77	38 77	NO	1.000	1.000	49.576	99.2	NO
7.	7 OCDD	2.16e5	4.79e5	0.87	NO	0.914	41.75	41.77	NO	1.000	. 1.001	98.717 <sup>.</sup>	98.7	NO
8	8 2,3,7,8-TCDF	5.26e4	6.92e5	0.73	NO	0.751	25.60	25.59	NO	1.001	1.001	10.121	101	NO
9	9 1,2,3,7.8-PeCDF	2.65e5	6.24e5	1.55	NO	0.893	30.17	30 17	NO	1.001	1.001	47 560	95.1	NO
10	10 2,3,4,7,8-PeCDF	2.63e5	5.67e5	1.58	NO	0.935	31.18	31.16	NO	1.001	1.000	49.579	99.2	NO
11	11 1,2,3,4,7,8-HxCDF	1.57e5	3.52e5	1.23	NO	0.884	33.94	33.96	NO	1.000	1.001	50.340	101	NO
12	12 1,2,3.6,7,8-HxCDF	2.28e5	5.20e5	1.21	NO	0.889	34.08	34.08	NO	1.000	1.000	49.426	98.9	NO
13	13 2,3,4,6,7,8-HxCDF	1.86e5	4.29e5	1.21	NO	0.934	34.69	34.67	NO	1.001	1.000	46.310	92.6	NO
14	14 1,2,3,7,8,9-HxCDF	1.38e5	3.17e5	1.20	NO	0.871	35.57	35.58	NO	1.000	1.000	49.901	99.8	NO
15	15 1,2,3.4,6,7.8 HpCDF	1.44e5	3.15e5	1.92	NO	0.873	37.38	37 36	NO	1.001	1.001	52.314	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.05e5	1.98e5	1.00	NO	1.01	39.30	39.32	NO	1.000	1.001	52.180	104	NO
17	17 OCDF	2.27e5	5.51e5	0.87	NO	0.806	41.94	41.95	NO	1.000	1.000	102.11	102	NO
18	18 13C-2,3,7,8-TCDD	5.76e5	4.43e5	0.80	NO	1.16	26.49	26.47	NO	1.026	1.026	112.30	112	NO
19	19 13C-1,2,3,7,8-PeCDD	4.06e5	4.43e5	0.63	NO	0.849	31.67	31.44	NO	1.227	1.218	107.73	108	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.55e5	3.78e5	1.29	NO	0.779	34.82	34.81	NO	1.014	1.014	86.548	86.5	NO
21	21 13C-1,2,3,6,7.8-HxCDD	4.42e5	3.78e5	1.26	NO	1.02	34.93	34.92	NO	1.017	1.017	115.01	115	NO
22	22 13C-1,2,3,7.8,9-HxCDD	3.72e5	3.78e5	1.25	NO	0.903	35.20	35.21	NO	1.025	1.025	109.14	109	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.43e5	3.78e5	1.03	NO	0.689	38.73	38.76	NO	1.128	1.129	93.457	93.5	NO
24	24 13C-OCDD	4.79e5	3.78e5	0.88	NO	0.652	41.75	41.75	NO	1.216	1.216	194.24	97.1	NO
25	25 13C-2,3,7,8-TCDF	6.92e5	6.26e5	0.73	NO	1.06	25.53	25.57	NO	0.989	0.991	104.31	104	NO
26	26 13C-1,2,3,7,8-PeCDF	6.24e5	6.26e5	1.58	NO	0.838	30.06	30.15	NO	1.165	1.168	118.92	119	NO
27	.27 13C-2,3,4,7,8-PeCDF	5.67e5	6.26e5	1.62	NO	0.817	31.01	31.15	NO	1.202	1.207	110.92	111	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.52e5	3.78e5	0.50	NO	1.01	33.95	33.94	NO	0.989	0.989	92.485	92.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5 20e5	3.78e5	0.51	NO	1,17	34.07	34.07	NO	0.992	0.992	117.92	118	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.29e5	3.78e5	0.51	NO	1.02	34.65	34.65	NO	1.009	1.009	111.23	111	NO

# Quantify Sample Summary ReportMassLynx 4.1 SCN815Vista Analytical Laboratory

#### Page 2 of 2

#### Dataset: U:\VG12.PRO\Results\200628R1\200628R1-1.qld

Last Altered:	Monday, June 29, 2020 06:42:23 Pacific Daylight Time
Printed:	Monday, June 29, 2020 06:42:53 Pacific Daylight Time

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
31	31 13C-1,2,3,7,8,9-HxCDF	3.17e5	3.78e5	0.51	NO	0.860	35.55	35.57	NO	1.035	1.036	97.554	97.6	NO
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.15e5	3.78e5	0.43	NO	0.774	37.30	37.34	NO	1.086	1.087	107.64	108	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.98e5	3.78e5	0.43	NO	0.521	39.32	39.30	NO	1.145	1.145	100.51	101	NO
34	34 13C-OCDF	5.51e5	3.78e5	0.86	NO	0.746	41.92	41,94	NO	1.221	1.221	195.72	97.9	NO
35	35 37CI-2,3,7,8-TCDD	5.06e4	4.43e5			1.04	26.52	26.48	NO	1.028	1.026	11.006	110	NO
36	36 13C-1,2,3,4-TCDD	4.4 <b>3</b> e5	4.43e5	0.79	110	1.00	25.89	25.81	NO	1 000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	6.26e5	6.26e5	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	3.78e5	3.78e5	0.54	NO	1.00	34.42	34.34	NO	1.000	1.000	100.00	100	YESOK

	nple Summary Report al Laboratory VG-11	MassLynx 4.1 SCN815	Page 1 of 1
Dataset:	Untitled		
Last Altered: Printed:		6:43:07 Pacific Daylight Time 6:43:28 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	RT
1	1 1,3,6,8-TCDD (First)	22.46
2	2 1,2,8.9-TCDD (Last)	27.44
3	3 1,2,4,7.9-PeCDD (First)	29.24
4	4 1.2.3.8.9-PeCDD (Last)	31.85
5	5 1,2,4,6,7,9-HxCDD (First)	33.33
6	6 1,2,3,7,8,9-HxCDD (Last)	35.22
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.75
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.77
9	9 1,3,6,8-TCDF (First)	20.32
10	10 1,2,8,9-TCDF (Last)	27.61
11	11 1,3,4,6,8-PeCDF (First)	27.56
12	12 1,2,3,8,9-PeCDF (Last)	32.09
13	13 1,2,3,4.6,8-HxCDF (First)	32.78
14	14 1,2,3.7,8,9-HxCDF (Last)	35.58
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.36
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.32

# Quantify Compound Summary ReportMassLynx 4.1 SCN815Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered:Monday, June 29, 2020 06:50:53 Pacific Daylight TimePrinted:Monday, June 29, 2020 06:51:07 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

NameIDAcq.DateAcq.Time1200628R1_1ST200628R1_1 1613 CS3 19L230528-Jun-2010:25:292200628R1_2B0F0202-BS1 OPR 1028-Jun-2011:11:443200628R1_3B0F0244-BS1 OPR 528-Jun-2011:57:554200628R1_4SOLVENT BLANK28-Jun-2012:44:075200628R1_5B0F0202-BLK1 Method Blank 1028-Jun-2013:30:196200628R1_6B0F0244-BLK1 Method Blank 528-Jun-2014:16:297200628R1_720061132-03 PDI-172SC-A-05-06-200520 10.9628-Jun-2015:02:418200628R1_82001155-01 PDI-1175SC-A-01-02-200522 11.0828-Jun-2015:48:539200628R1_92001155-02 PDI-175SC-A-01-02-200522 11.0328-Jun-2016:35:0410200628R1_102001155-03 PDI-175SC-A-01-02-200522 11.0328-Jun-2018:07:2812200628R1_12B0F0086-DUP2 Duplicate 11.4928-Jun-2018:53:3913200628R1_132001155-05 PDI-175SC-A-03-04-200522 11.5828-Jun-2018:53:3914200628R1_142001223-01 Omega Gelly 528-Jun-2019:39:4914200628R1_15B0F0202-DUP1 Duplicate 13.6428-Jun-2020:26:0015200628R1_15B0F0202-DUP1 Duplicate 13.6428-Jun-2021:12:13					
2200628R1_2B0F0202-BS1 OPR 1028-Jun-2011:11:443200628R1_3B0F0244-BS1 OPR 528-Jun-2011:57:554200628R1_4SOLVENT BLANK28-Jun-2012:44:075200628R1_5B0F0202-BLK1 Method Blank 1028-Jun-2013:30:196200628R1_6B0F0244-BLK1 Method Blank 528-Jun-2014:16:297200628R1_720061132-03 PDI-172SC-A-05-06-200520 10.9628-Jun-2015:02:418200628R1_82001155-01 PDI-1175SC-A-01-02-200522 11.0828-Jun-2015:48:539200628R1_92001155-02 PDI-175SC-A-01-02-200522 11.0228-Jun-2016:35:0410200628R1_102001155-03 PDI-175SC-A-01-02-200522 11.0328-Jun-2017:21:1611200628R1_112001155-04 PDI-175SC-A-01-02-200522 11.0328-Jun-2018:07:2812200628R1_12B0F0086-DUP2 Duplicate 11.4928-Jun-2018:53:3913200628R1_132001155-05 PDI-175SC-A-03-04-200522 11.5828-Jun-2019:39:4914200628R1_142001223-01 Omega Gelly 528-Jun-2020:26:00		Name	ID	Acq.Date	Acq.Time
3       200628R1_3       B0F0244-BS1 OPR 5       28-Jun-20       11:57:55         4       200628R1_4       SOLVENT BLANK       28-Jun-20       12:44:07         5       200628R1_5       B0F0202-BLK1 Method Blank 10       28-Jun-20       13:30:19         6       200628R1_6       B0F0244-BLK1 Method Blank 5       28-Jun-20       14:16:29         7       200628R1_7       2001132-03 PDI-172SC-A-05-06-200520 10.96       28-Jun-20       15:02:41         8       200628R1_8       2001155-01 PDI-1175SC-A-01-02-200522 11.08       28-Jun-20       15:48:53         9       200628R1_9       2001155-02 PDI-175SC-A-01-02-200522 11.02       28-Jun-20       16:35:04         10       200628R1_10       2001155-03 PDI-175SC-A-01-02-200522 11.03       28-Jun-20       17:21:16         11       200628R1_11       2001155-04 PDI-175SC-A-01-02-200522 11.03       28-Jun-20       18:07:28         12       200628R1_11       2001155-04 PDI-175SC-A-02-03-200522 11.47       28-Jun-20       18:53:39         13       200628R1_12       B0F0086-DUP2 Duplicate 11.49       28-Jun-20       18:53:39         13       200628R1_13       2001155-05 PDI-175SC-A-03-04-200522 11.58       28-Jun-20       18:53:39         14       200628R1_14       2001155-05 PDI-175SC-A-03-04-200522	1	200628R1_1	ST200628R1_1 1613 CS3 19L2305	28-Jun-20	10:25:29
4200628R1_4SOLVENT BLANK28-Jun-2012:44:075200628R1_5B0F0202-BLK1 Method Blank 1028-Jun-2013:30:196200628R1_6B0F0244-BLK1 Method Blank 528-Jun-2014:16:297200628R1_72006132-03 PDI-172SC-A-05-06-200520 10.9628-Jun-2015:02:418200628R1_82001155-01 PDI-1175SC-A-01-02-200522 11.0828-Jun-2015:48:539200628R1_92001155-02 PDI-175SC-A-00-01-200522 11.0228-Jun-2016:35:0410200628R1_102001155-03 PDI-175SC-A-01-02-200522 11.0328-Jun-2017:21:1611200628R1_112001155-04 PDI-175SC-A-01-02-200522 11.4728-Jun-2018:07:2812200628R1_12B0F0086-DUP2 Duplicate 11.4928-Jun-2018:53:3913200628R1_132001155-05 PDI-175SC-A-03-04-200522 11.5828-Jun-2019:39:4914200628R1_142001223-01 Omega Gelly 528-Jun-2020:26:00	2	200628R1_2	B0F0202-BS1 OPR 10	28-Jun-20	11:11:44
5200628R1_5B0F0202-BLK1 Method Blank 1028-Jun-2013:30:196200628R1_6B0F0244-BLK1 Method Blank 528-Jun-2014:16:297200628R1_72001132-03 PDI-172SC-A-05-06-200520 10.9628-Jun-2015:02:418200628R1_82001155-01 PDI-1175SC-A-01-02-200522 11.0828-Jun-2015:48:539200628R1_92001155-02 PDI-175SC-A-00-01-200522 11.0228-Jun-2016:35:0410200628R1_102001155-03 PDI-175SC-A-01-02-200522 11.0328-Jun-2017:21:1611200628R1_112001155-04 PDI-175SC-A-01-02-200522 11.4728-Jun-2018:07:2812200628R1_12B0F0086-DUP2 Duplicate 11.4928-Jun-2018:53:3913200628R1_132001155-05 PDI-175SC-A-03-04-200522 11.5828-Jun-2019:39:4914200628R1_142001223-01 Omega Gelly 528-Jun-2020:26:00	3	200628R1_3	B0F0244-BS1 OPR 5	28-Jun-20	11:57:55
6200628R1_6B0F0244-BLK1 Method Blank 528-Jun-2014:16:297200628R1_72001132-03 PDI-172SC-A-05-06-200520 10.9628-Jun-2015:02:418200628R1_82001155-01 PDI-1175SC-A-01-02-200522 11.0828-Jun-2015:48:539200628R1_92001155-02 PDI-175SC-A-00-01-200522 11.0228-Jun-2016:35:0410200628R1_102001155-03 PDI-175SC-A-01-02-200522 11.0328-Jun-2017:21:1611200628R1_112001155-04 PDI-175SC-A-01-02-200522 11.4728-Jun-2018:07:2812200628R1_12B0F0086-DUP2 Duplicate 11.4928-Jun-2018:53:3913200628R1_132001155-05 PDI-175SC-A-03-04-200522 11.5828-Jun-2019:39:4914200628R1_142001223-01 Omega Gelly 528-Jun-2020:26:00	4	200628R1_4	SOLVENT BLANK	28-Jun-20	12:44:07
7200628R1_72001132-03 PDI-172SC-A-05-06-200520 10.9628-Jun-2015:02:418200628R1_82001155-01 PDI-1175SC-A-01-02-200522 11.0828-Jun-2015:48:539200628R1_92001155-02 PDI-175SC-A-00-01-200522 11.0228-Jun-2016:35:0410200628R1_102001155-03 PDI-175SC-A-01-02-200522 11.0328-Jun-2017:21:1611200628R1_112001155-04 PDI-175SC-A-01-02-200522 11.0328-Jun-2018:07:2812200628R1_12B0F0086-DUP2 Duplicate 11.4928-Jun-2018:53:3913200628R1_132001155-05 PDI-175SC-A-03-04-200522 11.5828-Jun-2019:39:4914200628R1_142001223-01 Omega Gelly 528-Jun-2020:26:00	5	200628R1_5	B0F0202-BLK1 Method Blank 10	28-Jun-20	13:30:19
8       200628R1_8       2001155-01 PDI-1175SC-A-01-02-200522 11.08       28-Jun-20       15:48:53         9       200628R1_9       2001155-02 PDI-175SC-A-00-01-200522 11.02       28-Jun-20       16:35:04         10       200628R1_10       2001155-03 PDI-175SC-A-01-02-200522 11.03       28-Jun-20       17:21:16         11       200628R1_11       2001155-04 PDI-175SC-A-02-03-200522 11.47       28-Jun-20       18:07:28         12       200628R1_12       B0F0086-DUP2 Duplicate 11.49       28-Jun-20       18:53:39         13       200628R1_13       2001155-05 PDI-175SC-A-03-04-200522 11.58       28-Jun-20       19:39:49         14       200628R1_14       2001223-01 Omega Gelly 5       28-Jun-20       20:26:00	6	200628R1_6	B0F0244-BLK1 Method Blank 5	28-Jun-20	14:16:29
9       200628R1_9       2001155-02 PDI-175SC-A-00-01-200522 11.02       28-Jun-20       16:35:04         10       200628R1_10       2001155-03 PDI-175SC-A-01-02-200522 11.03       28-Jun-20       17:21:16         11       200628R1_11       2001155-04 PDI-175SC-A-02-03-200522 11.47       28-Jun-20       18:07:28         12       200628R1_12       B0F0086-DUP2 Duplicate 11.49       28-Jun-20       18:53:39         13       200628R1_13       2001155-05 PDI-175SC-A-03-04-200522 11.58       28-Jun-20       19:39:49         14       200628R1_14       2001223-01 Omega Gelly 5       28-Jun-20       20:26:00	7	200628R1_7	2001132-03 PDI-172SC-A-05-06-200520 10.96	28-Jun-20	15:02:41
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12         200628R1_12         B0F0086-DUP2 Duplicate 11.49         28-Jun-20         18:53:39           13         200628R1_13         2001155-05 PDI-175SC-A-03-04-200522 11.58         28-Jun-20         19:39:49           14         200628R1_14         2001223-01 Omega Gelly 5         28-Jun-20         20:26:00	10	200628R1_10	2001155-03 PDI-175SC-A-01-02-200522 11.03	28-Jun-20	17:21:16
13         200628R1_13         2001155-05 PDI-175SC-A-03-04-200522 11.58         28-Jun-20         19:39:49           14         200628R1_14         2001223-01 Omega Gelly 5         28-Jun-20         20:26:00	11	200628R1_11	2001155-04 PDI-175SC-A-02-03-200522 11.47	28-Jun-20	18:07:28
14         200628R1_14         2001223-01 Omega Gelly 5         28-Jun-20         20:26:00	12	200628R1_12	B0F0086-DUP2 Duplicate 11.49	28-Jun-20	18:53:39
	13 .	200628R1_13	2001155-05 PDI-175SC-A-03-04-200522 11.58	28-Jun-20	19:39:49
15 200628R1_15 B0F0202-DUP1 Duplicate 13.64 28-Jun-20 21:12:13	14	200628R1_14	2001223-01 Omega Gelly 5	28-Jun-20	20:26:00
	15	200628R1_15	B0F0202-DUP1 Duplicate 13.64	28-Jun-20	21:12:13

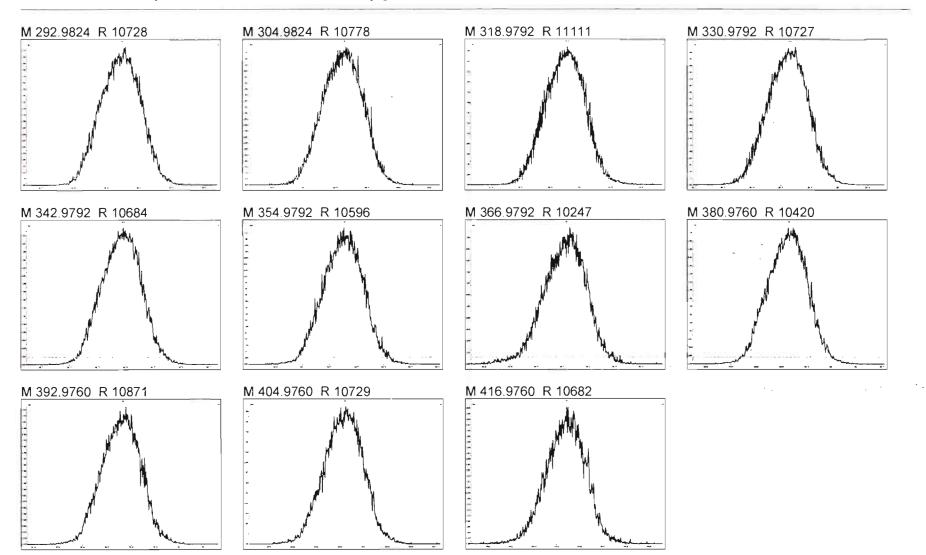
Page 1 of 1

# MassLynx 4.1 SCN815

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed:

Sunday, June 28, 2020 10:20:48 Pacific Daylight Time



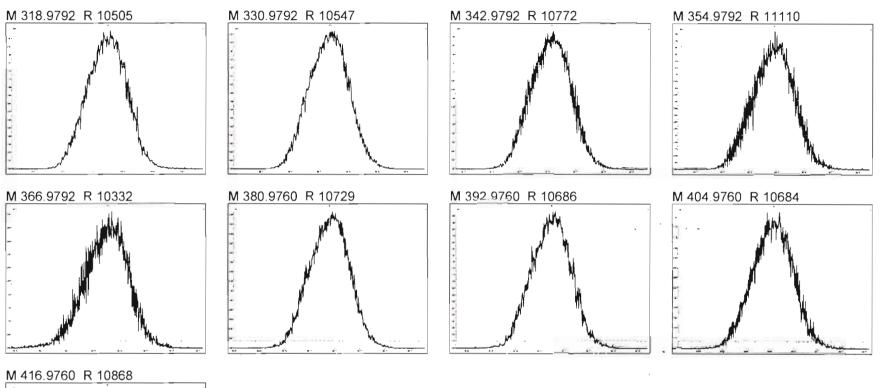
### MassLynx 4.1 SCN815

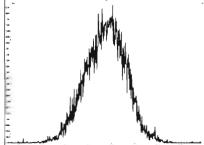
Page 1 of 1

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed:

Sunday, June 28, 2020 10:21:27 Pacific Daylight Time



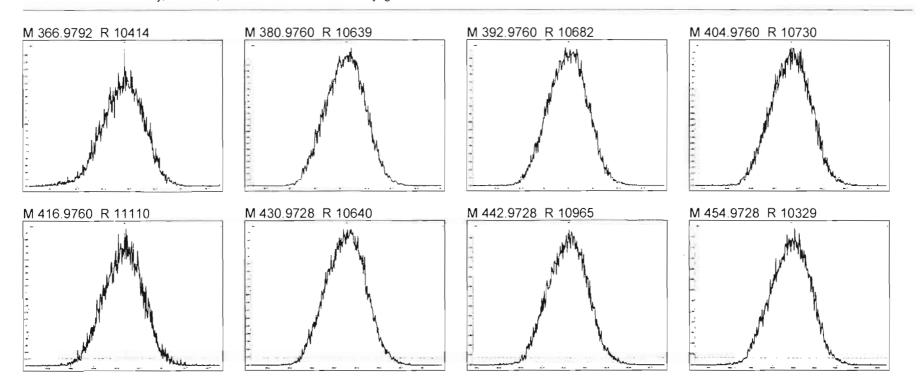


### MassLynx 4.1 SCN815

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed:

Sunday, June 28, 2020 10:21:52 Pacific Daylight Time



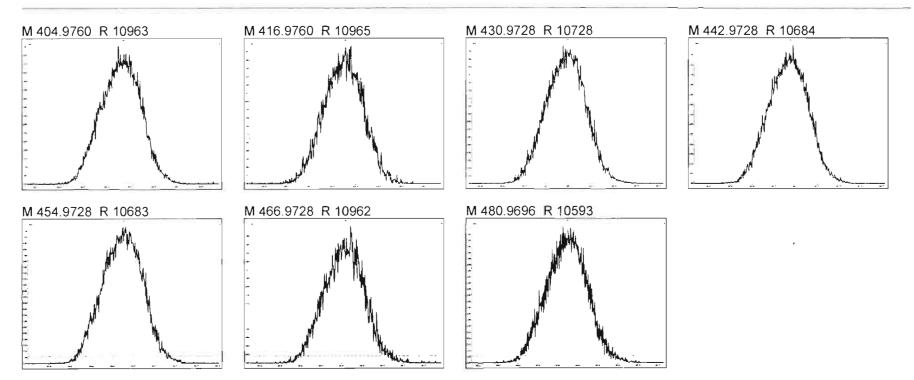
# MassLynx 4.1 SCN815

Page 1 of 1

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed:

Sunday, June 28, 2020 10:22:07 Pacific Daylight Time



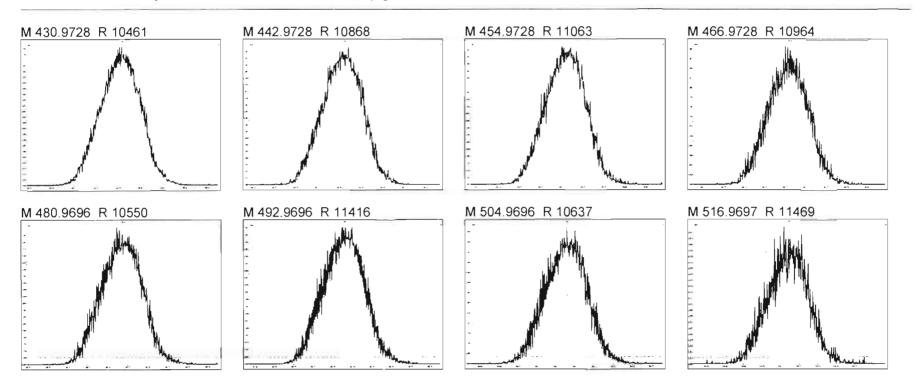
# MassLynx 4.1 SCN815

Page 1 of 1

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed:

Sunday, June 28, 2020 10:22:24 Pacific Daylight Time



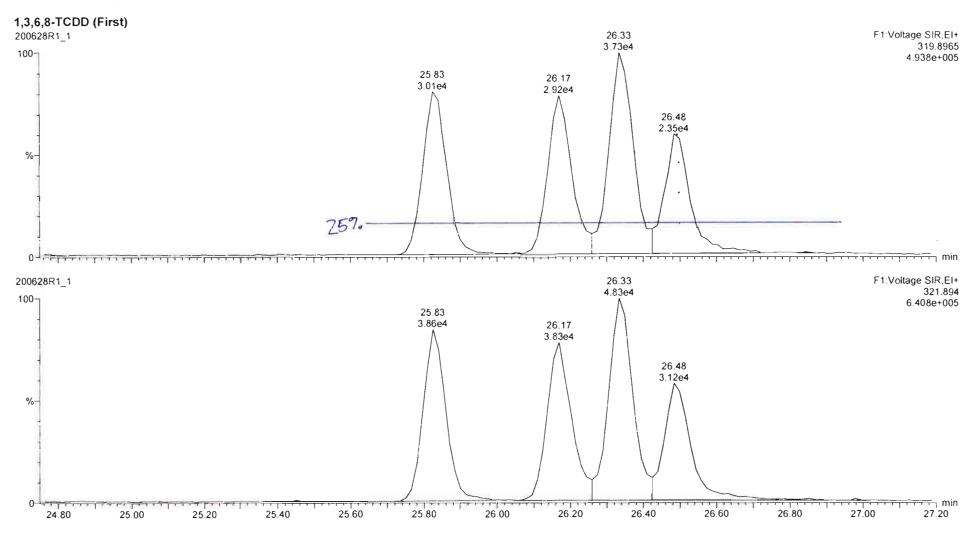
# Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory VG-11

Dataset: Untitled

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Printed:	Monday, June 29, 2020 06:43:28 Pacific Daylight Time

GRB 06/29/2020

#### 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

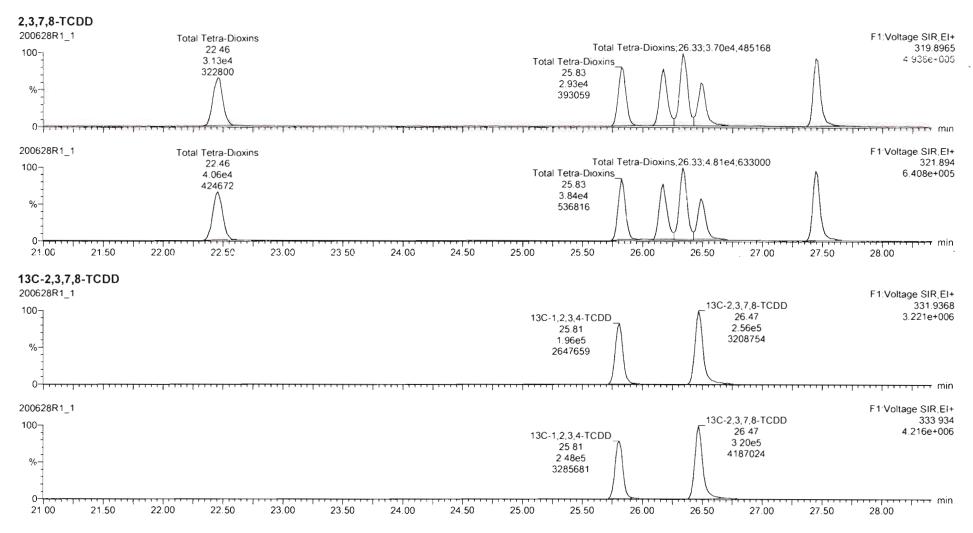


Quantify Sam Vista Analytica		Page 1 of 13
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:43:54 Pacific Daylight Time Monday, June 29, 2020 06:45:52 Pacific Daylight Time	
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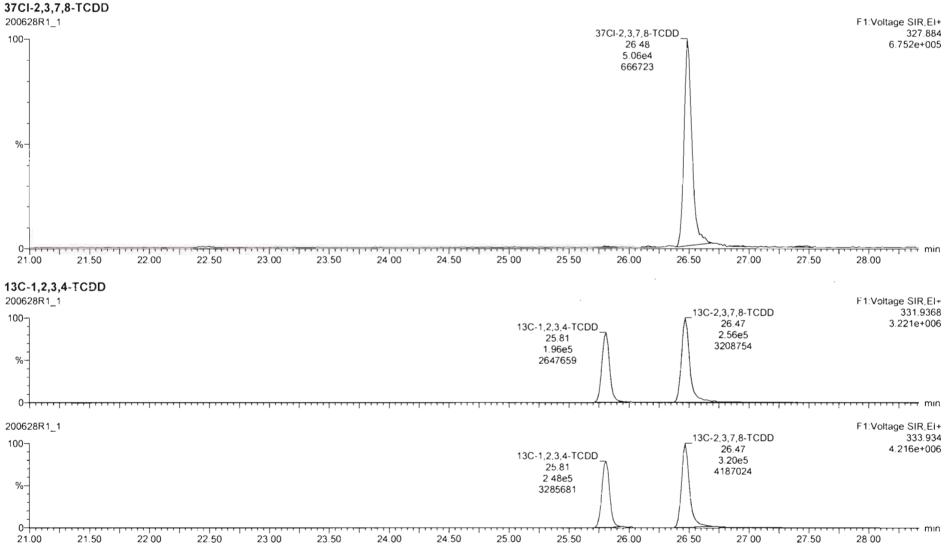
#### Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200628R1\_1, Date: 28-Jun-2020, Time: 10:25:29, ID: ST200628R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



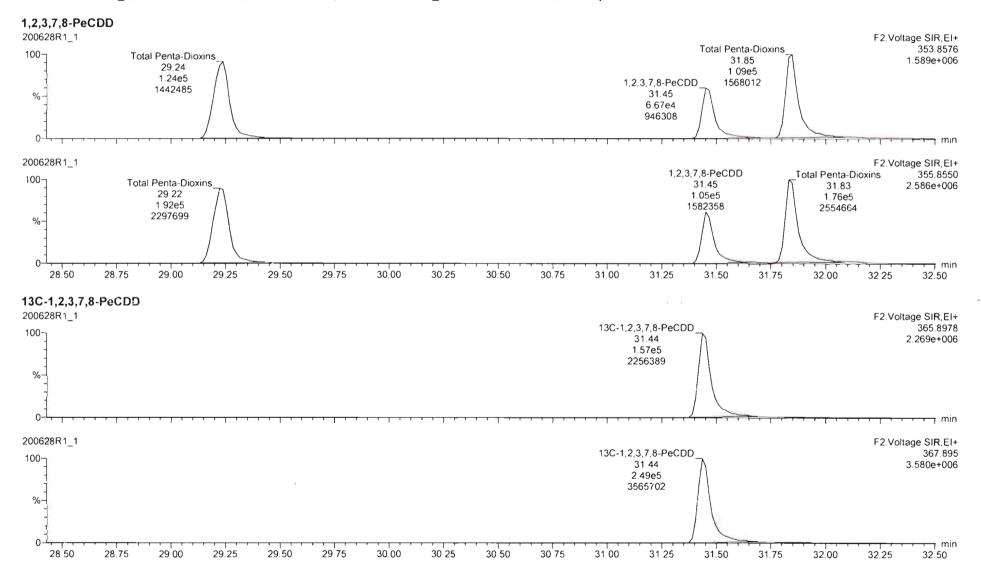
1.00

Quantify Sam Vista Analytica		Page 2 of 13
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:43:54 Pacific Daylight Time Monday, June 29, 2020 06:45:52 Pacific Daylight Time	



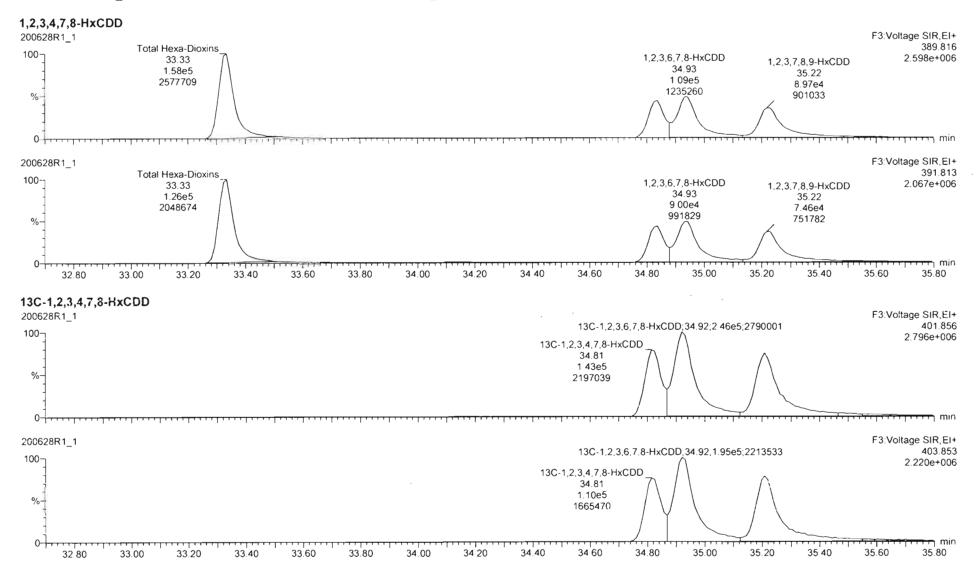
Work Order 2001155

Quantify San Vista Analytic	• •	MassLynx 4.1 SCN815	Page 3 of 13
Dataset:	Untitled		
Last Altered: Printed:		29, 2020 06:43:54 Pacific Daylight Time 29, 2020 06:45:52 Pacific Daylight Time	



#### Work Order 2001155

Quantify San Vista Analytica	• •	MassLynx 4.1 SCN815	Page 4 of 13
Dataset:	Untitled		
Last Altered: Printed:		29, 2020 06:43:54 Pacific Daylight Time 29, 2020 06:45:52 Pacific Daylight Time	



# Name 1 18 130-2 3 7 5-**CDD	Resp	E Resp	Pred R.A			1.1563		RT 2E 4**	RT Fing	Pred RRT	RAT	Conc		STD out	
18 130-21378-*CDD 9 130-12378-*CDD	4 06ef	4 = 305		5.5.2			1067		10	1 227	1213		101	1	
20 13C-1,2,3,4,7,8-HxCDD	2 55e5	3.78e5	1.24	1 25	NO	0.7790	34.82		NO	1.014			2.55	N	
21 130+1 2 3 6 T S-H+CDD	4.4265	17245				1.2167	24.82	24 82	1.5	1 617	1217		++4		
22 130123755-m/DE 23 030-1234678-McCDE	2.43e8	3 73ef		+ 14			58,75	25 TH	1.2	1 024	1125	104	92.0	14	
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1 . 26 13C-123-8-PeCCF	6-2465	0.7645		1.58				12.15	60	1.105	1 168		115		4
27 130-23 4 7.6-PeCDF 1 28 130-1 23 4 7.8-PeCDF	5-6765 3-5265	E 2605		0.50		5 1 165	11 10 1		NO NO	0.989	1 207	111	92 5	14	
28 130-1 2 3 4,7 8-HKCDF 29 130-1 2 3 6 1 8-HKCDF	f 10ef	2 75et		111				14.1	- 62	0.851	1 261		1. 112	1	
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35 370-2378-7000	1.0544	1 4765			1	5360.1	26.85		NO	1 623	1014			2	
36 1301234-000	4.43e5	4 4345		0.75			25.55		50	1.000	1 000			74	
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															A CONTRACTOR OF

200628R1\_1 - ST200628R1\_1 1613 CS3 19L2305 - 1613 CS3 19L2305

TargetLynx - 200628R1-1.cld \* - [Chromatogram]

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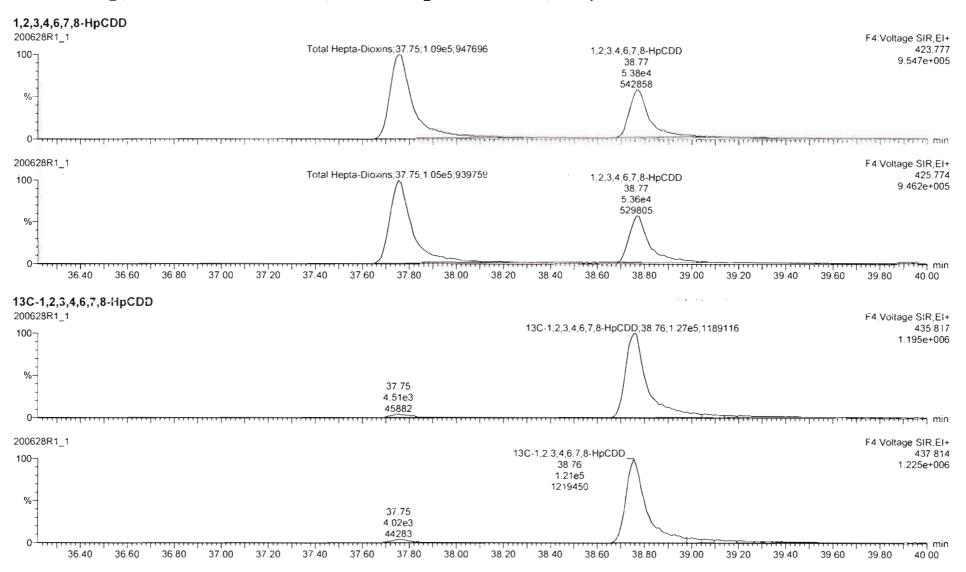
Resp IS Resp Pres R4 R4 My BRF Pres RT RT RT Fing Pres RRT RRT Core %Rec STD out

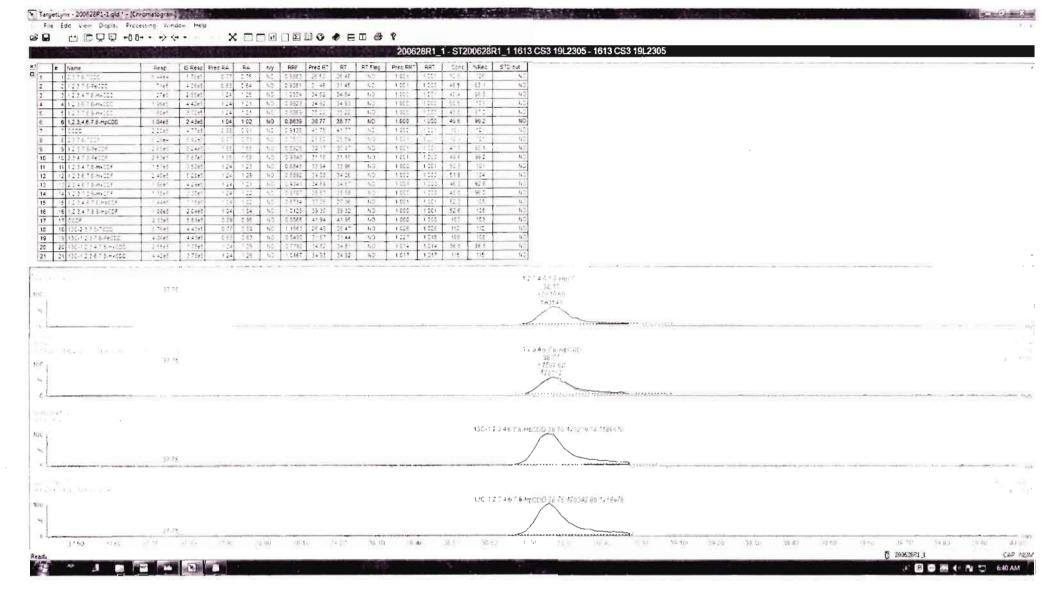
and the second stress

							_				2006	128R1_	1 - ST2	200628	_1 1613 CS3 19L2305 - 1613 CS3 19L2305	
	Name	Resp	15 Rest	Fred RA	EA.	6.4	FRF	Pred AT	RT.	RTFING	Pres ART	RRT	Cane	.Rec	STD eut	
	5 2374-222	5 4484	1 76ef	5.**	1. 4.75	1.45	0.852.7	1.1.1	34.35	- 40	1.001	1001	1.4	108	- NG	
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	1 6600	2 2665	4.7765	0.39	1 63	65	1.2436	- 175	341.77	110	1 000	1.333	101	18	16	
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Γ	11 1.2 2.4 7,8-HKCOF	1 1765	2 52e5	124	523	10	-	11.84	22.96	NO	1 000	1.001	150.3	1.121	NO	
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	EV							24	4 84	34.9	à				2 77 8 9-44 CDD 35 22 72 540 31 75 909 (	

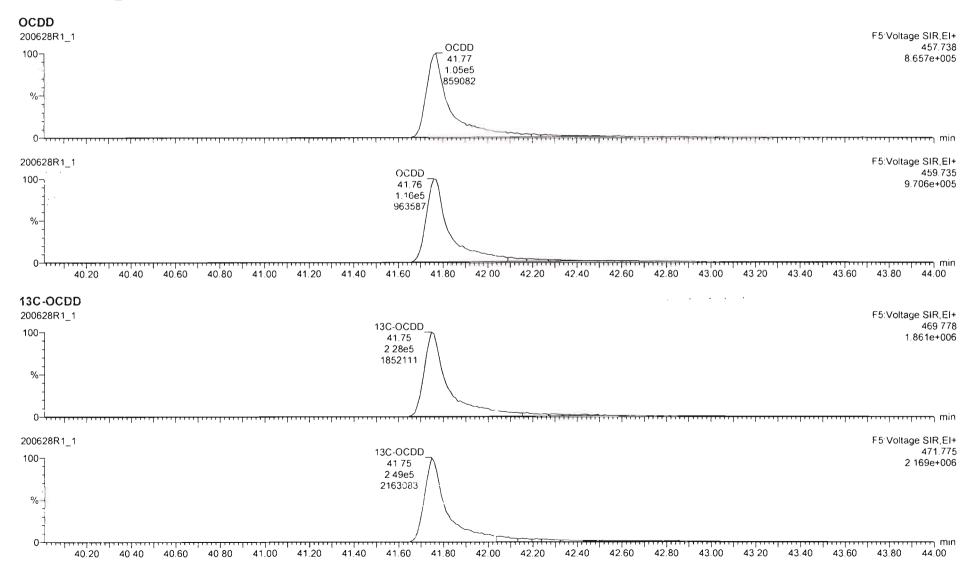
	34 81			M204	<b></b>	 	 	
111			34	7 S ()-H+CDC 5 24 895 69				
	34 81	34 92		7262				

Quantify San Vista Analytica		Page 5 of 13
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 29, 2020 06:43:54 Pacific Daylight Time Monday, June 29, 2020 06:45:52 Pacific Daylight Time	





Quantify Sam Vista Analytica	• •	MassLynx 4.1 SCN815	Page 6 of 13
Dataset:	Untitled		
Last Altered: Printed:		29, 2020 06:43:54 Pacific Daylight Time 29, 2020 06:45:52 Pacific Daylight Time	



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200628R1\_1 - ST200628R1\_1 1613 CS3 19L2305 - 1613 CS3 19L2305

-		Name	Resp	S Resp	Pret RA	R4	0/2	RRF	Pred AT	RT	RT Flag	Pred RRT	RRT	Conc	5.Rec	STD out
1	1	2226-002	1 4444	T TEet	6 37	2.15	1022	2.5583	26.60	28.48	140	1.001	1.001	に同	9	NC
2	:	12378-96000	7165	4 C6e5	2.67	0.84	152	7.8081	2 48	31 45	163	1.001	1 000	46.5	\$7.0	NC
3	1	102418-H4CEE	1 27e5	25545	124	25	1.12	1 2 2 2 4	14-22	34.54	10	1 833	1201	41.4	(新生)	ILQ.
4		513678-H-CEC	195e5	4 42 tf	1.24	121	1.5	\$ 6623	14 14	34.83	10	3201	1332	121		
5	1	11117556.000	1 60e4	1.5245	1024	101	1.52	1.1361	15.11	36.22	. NO	1.022	1.111	491	11.00	143:
6	. 4	123467840000	10465	24345	1.04	102	1943	23675	3877	18.77	.ND	1000	1.520	41.4	97.4	10
7	7	0000	2.1645	4.79e5	0 89	0.87	ND	0 9136	41 75	41 77	NO	1.000	1 001	95.7	95.7	NO
8	1.2	1.1.9.2.41+2 2.1.1.2.41+2	2 Cife4	1.9245	-477	2.12	52	12.721	1111	114	43	1001	1.125	10.0	1.1	10
÷	1	N127646018	1 #5e5	6244	1.55	135	14.2	0.1921	20.17	30.17	115	1001	1001	43.8	- P. F.	NQ.
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20	20	130-123478-HKC00	2.5545	1 ?!et	1.24	1.29	14.51	0.2790	34 82	34.81	40	1.014	1014	94.6	17.6	ND
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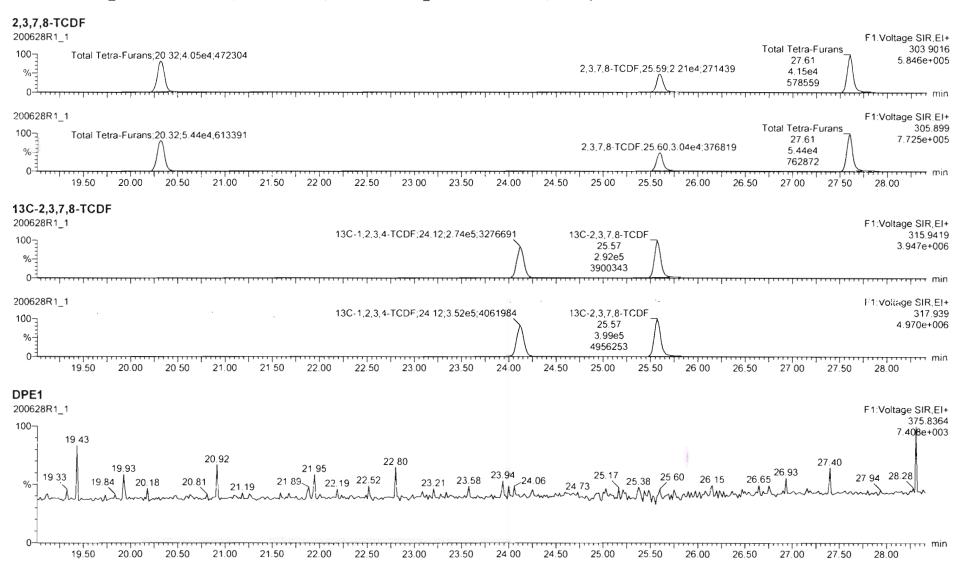
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Quantify Sample Report	MassLynx 4.1 SCN815
Vista Analytical Laboratory	

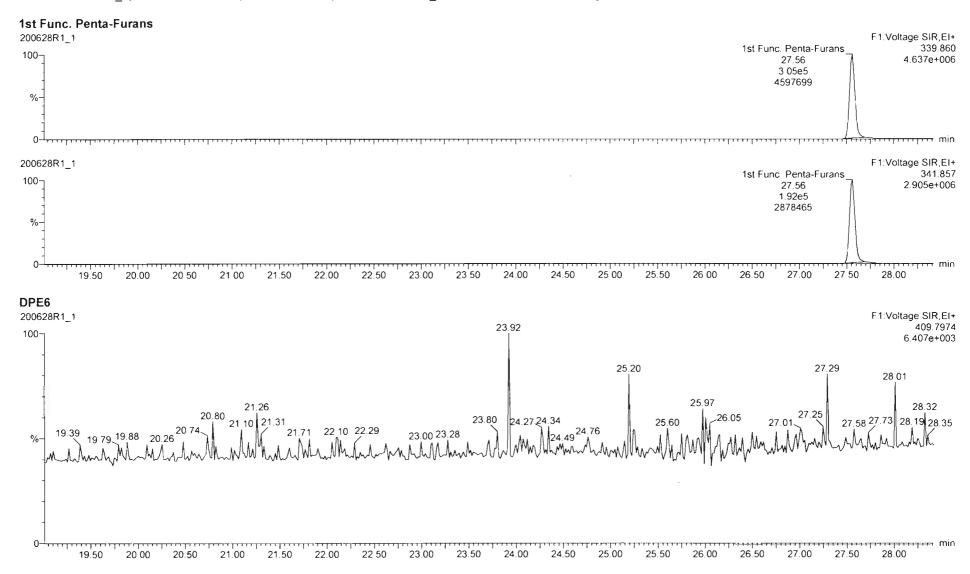
Page 7 of 13

Dataset: Untitled

Last Altered:	Monday, June 29, 2020 06:43:54 Pacific Daylight Time
Printed:	Monday, June 29, 2020 06:45:52 Pacific Daylight Time

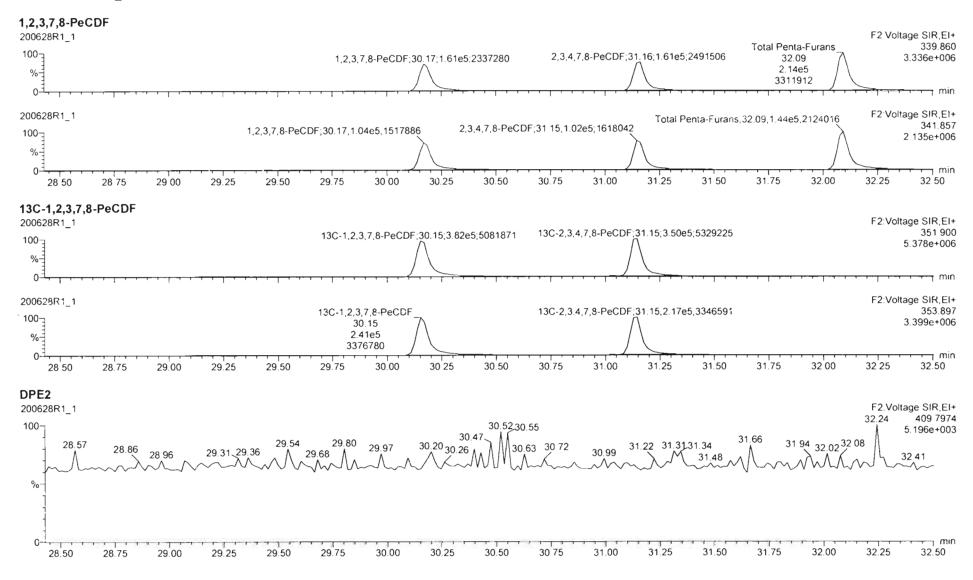


Quantify Sam Vista Analytica		MassLynx 4.1 SCN815	Page 8 of 13
Dataset:	Untitled		
Last Altered: Printed:		29, 2020 06:43:54 Pacific Daylight Time 29, 2020 06:45:52 Pacific Daylight Time	

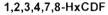


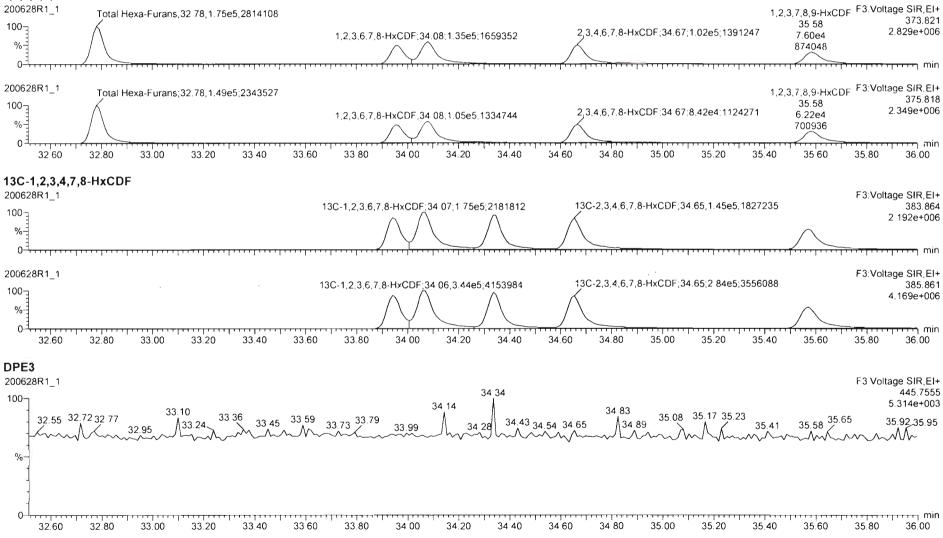
#### Work Order 2001155

Quantify Sam Vista Analytica		Page 9 of 13
Dataset:	Untitled	
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Quantify Sam Vista Analytica		Page 10 of 13
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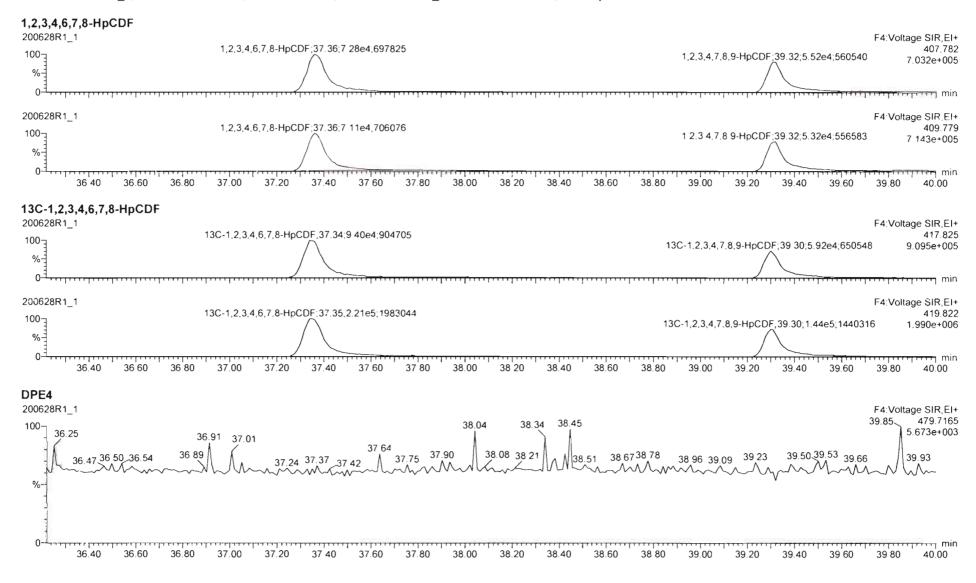
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	3 4 7 8-44 CDP	1 57e5	2.52e5				0.8545	23.94		10	1.005	1 251	25.7	75.6	74
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5 12	14-18-9-POCEF	1 08e5	20445			10	10121		39.32	10 10	1002	1003		101	54 54
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Quantify Sam Vista Analytica		Page 11 of 13
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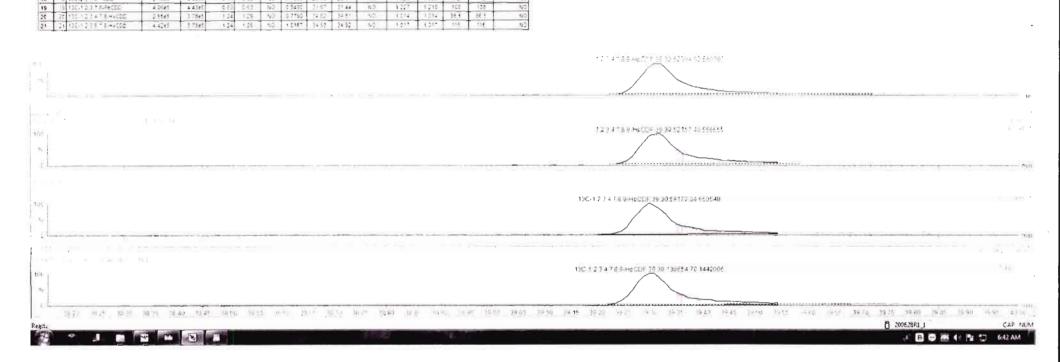
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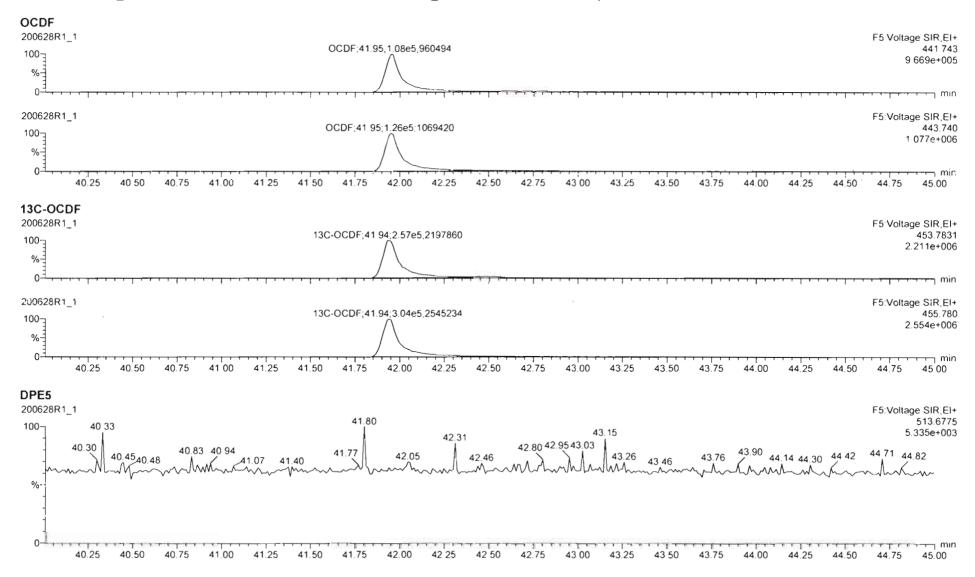
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Quantify Sam Vista Analytica		Page 12 of 13
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#### 200628R1\_1 - ST200628R1\_1 1613 CS3 19L2305 - 1613 CS3 19L2305

	:	Name	Resp	5 Resp	Fred R.A.	R.4.	ney	RRF	Pred RT	RT	RTFING	Pres RRT	RRT	Conc	SRet	STD out
1		2.2.74/1020	1 ares	1.7Ee5	2.27	-510	102.	13581	10.42	25.48	NO.	1.001	1.021	16.6	12	10
2	ž	12278-96000	165	4 0 fet	243	2.84	NO.	0.9081	27.48	31 45	1.0	1.001	1 000	46.6	61.0	N2
3	3	123478,4+100	1 27e5	2 55e5	1.24	1.25	115	1.6334	24.62	34 54	50	1.000	1.0210	48.4	×4	- 00
4	4	1236 * S-HxC0C	35e3	4 4.10	17.54	171	T+=	0.8923	76 24	34.51	1.2	1.000	1.002	111	18	1.
¢		12316590000	1.6065	2.7285	1.24	12.24	- 75-2-	2.9369	1111	8.11.	62	1.000	1.00°+	121	154	- 40
6	÷	11114 TERECOL	1:0465	24365	16 24	: 22	No.	0.663.6	15.35	22.77	h0(	1.000	1.925	45-	952	082
7	-	0025	2 56e5	4 7545	0.35	3.87	1.02	0,9136	47.75	41.24	NÇ	1000	1011	12.1	81 1	16
8	Ê	1318/1038	1.3e+	109748	9.77	11731	112	日本語語	に注意	28.8%		1:003	195	二件注意	-	14
9	5	12375-Pe00F	2,6585	52445	- 現實美	* + X.	145	12223	12.12	50.1*	63	1001	1.501	414	66.1	15
10	10	2.2 AT BIRECOF	2.6365	4.4745	L.cei	1.1.2	100	0.9343	24.31	31.4E	NO:	19001	1.000	17-2	39.1	NO.
11	11	123 = 7 6-HxCDF	47e5	1:52e5	1.24	1128	345	0.8545	22.54	33 56	NO:	1,000	1.001	55.7	761	N.)
12	12	12.2.6 * 6/Hx 20F	: the:	-51245	4.24	+ 21	142	1 2292	24.22	34 28	h0.	1.000	1.000	45.4 17	58.5	h1
13	12	2:14678.HATEF	+ 56e5	12545	1.74	121	.43	5 6341	24.65	34 5	NO	1001	1.000	46.2	32.4	- 46
14	34	12378646627	12865	3 17e5	24	12	1.45	C/ETO?	36.61	35.58	_N05	0000	1 000	49.5	39.1	NC NC
15	1	1.2.3 F 8 F 8-H6COF	1.44e5	- 0.15a5	15.24	1.22	.57	2.5734	10 M	27 M	NO:	1.00.1	1.001	87.3	• ( <del>.</del>	- 197
16	E	1.2.3.4.7.8.5.mpCDF	10545	19545	1 34	1 20	142	10128	15.15	19.32	ND	1005	1001	52.2	104	162
17	17	OCDF	2.27e5	5.51e5	28.0	0.87	NO	0.8065	41 94	41.95	NO	1.000	1 000	102	102	NO
18	18	100-2127 5-7000	5 TEet	44245	2 77	0.80	10	11563	24.40	28.47	NO:	1 026	1 02E	112	112	60
19	19	13C-1237.8-ReCDD	4-06e5	14,4385	1.63	0.63	.NŪ	0.5490	1.87	31 44	NQ.	1 227	1,218	108	198	10
20	20	13C-112 3 4 7 8 (5400)	2 5565	2.2565	104	-79	1.0	27192	1.54.22	52.81	40	1.013	1.014	36.5	86.5	
21	21	130-12,2.6,7.8-44000	4 4295	2 73+5	1.24	1.26	10	1 0167	3435	34 92	NO.	1.017	1 017	115	115	60

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Quantify Sample Report	MassLynx 4.1 SCN815
Vista Analytical Laboratory	

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Last Altered:	Monday, June 29, 2020 06:43:54 Pacific Daylight Time
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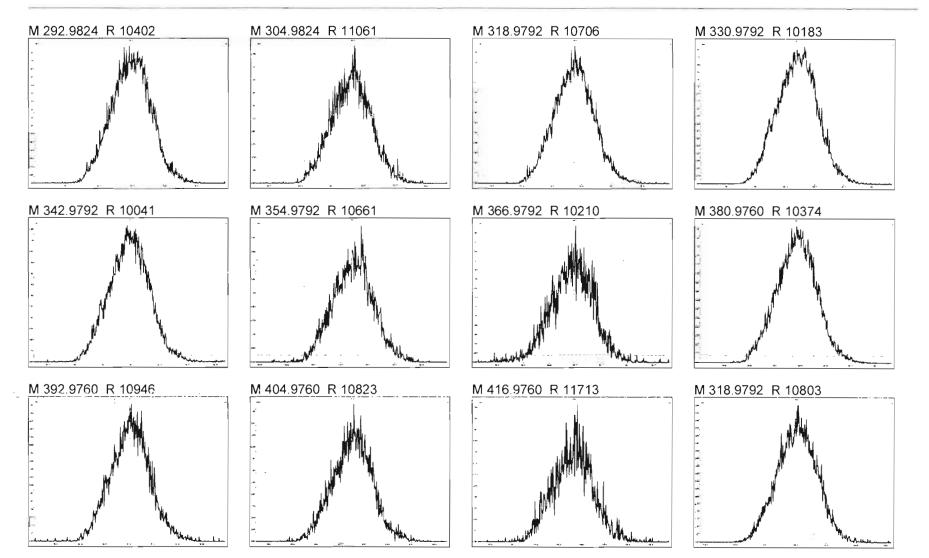
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200628R1_1         F3:Voltage SIR,EI           100         32.71;1.26e6;7029993         33.58;2.06e5;2058551         34.13         34.97         35.38         35.67         1.794e+001           32.54         34.97         35.38         35.67         1.794e+001	
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100       36.37, 1.3460, 37.207       37.22       01.00, 1.550, 0.002,	
$\begin{array}{c} \text{PFK5} \\ \text{200628R1_1} \\ 100 \\ \hline \\ 40.59 \\ 40.73 \\ 40.86 \\ 41.01 \\ 41.39 \\ 41.56 \\ 41.64 \\ 41.75 \\ 42.03 \\ 42.24 \\ 42.67 \\ 42.99 \\ 42.67 \\ 42.99 \\ 43.10 \\ 43.35 \\ 43.70 \\ 43.84 \\ 44.10 \\ 43.84 \\ 44.10 \\ 44.68 \\ 6957e+006 \\ 44.68 \\ 6957e+0$	

MassLynx 4.1 SCN815

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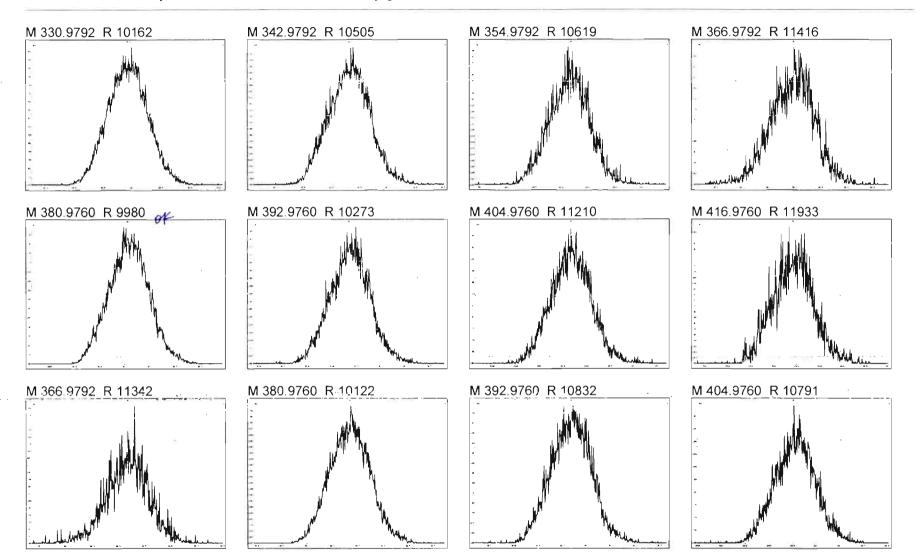




MassLynx 4.1 SCN815

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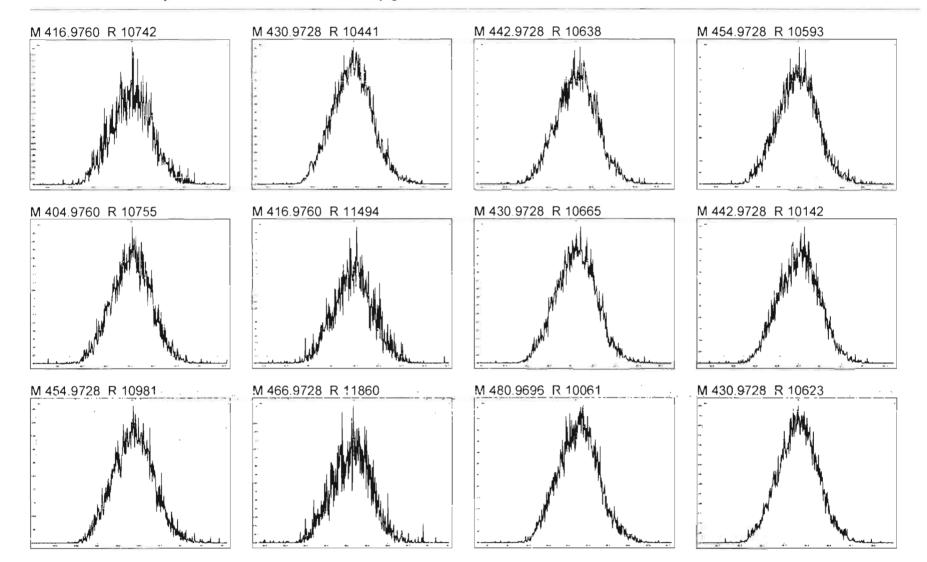
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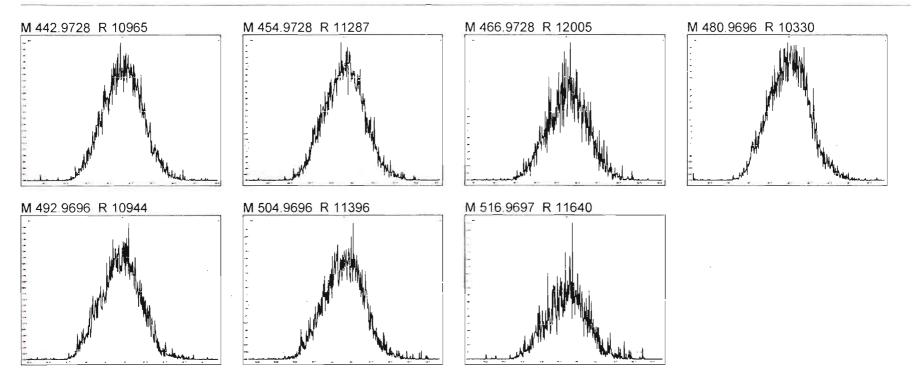




MassLynx 4.1 SCN815

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# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID: ST20010712-1			Reviewed By: <u>C.7 07/08/2020</u>	-
End Calibration ID:NA				·
ion abundance within QC   mits?	Beg.	End	Mass resolution >	Bes. Ind
Concentrations within criteria?		ф	□ 5k □ 6-8K □ 8K ⊠ 10K 1614 1699 429 1613/1668/8280	
TEDD/TCDF Valleys <25%	$\Box$	Ф	Intergrated peaks display correctly?	
First and last eluters present?	$\square$	Ф	GC Break <20%	•
Retention Times within criteria?	P		8280 CS1 End Standard:	•
Verification Std. named correctly?	D	Ф	- Ratios within limits, 8/N <2.5:1, C81 within 12 hours	М
(ST-Year-Month-Day-VG ID)				
Forms signed and dated?	Ø	φ	Comments:	
Correct ICAL referenced?	GPB			
<u>Run Log:</u>		ľ	· · · · · · · · · · · · · · · · · · ·	
- Correct Instrument Hsted?	$\square$	$\checkmark$		•
- Samples within 12 hour clock? - Bottle position verfied?	(Y) G	N PB		
				•*

<b>Quantify Sam</b> Vista Analytica	aple Summary Report MassLynx 4.1 SCN815	· · · · · · · · · · · · · · · · · · ·	Page 1 of 2
Dataset:	U:\VG12.PRO\Results\200707R2\200707R2-1.qld		
Last Altered: Printed:	Tuesday, July 07, 2020 1:53:33 PM Pacific Daylight Time Tuesday, July 07, 2020 1:53:59 PM Pacific Daylight Time	G	20 01/1000

# (7 07/08/2020

#### Method: C:\MassLynx\Default.pro\Methdb\1613\_rrt-7-3-20.mdb 03 Jul 2020 12:13:21 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Name: 200707R2\_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

A Name	Reep	. IS Resp	RA	ny	RH	Pred.RT	RT	RT Flag	Pred FIRT	ANT.		3. 1 AVA	L. Kar
1 2,3,7,8-TCDD	4.4084	5.28e5	0.72	NO	0.888	26.49	26.48	NO	1.001	1.001	9.3724	93.7	NO
2 1,2,3,7,8-PeCDD	1.53e5	3.74e5	0.61	NO	0.908	31.46	31.45	NO	1.001	1.000	45.033	90.1	NO
3 1,2,3,4,7,8-HxCDD	1.19e5	2.47e5	1.25	NO	1.03	34.84	34.84	NO	1.000	1.000	46.835	93.7	NO
4 1,2,3,6,7,8-HxCDD	1.52e5	3.32e5	1.36	NO	0.892	34.93	34.94	NO	1.000	1.000	51.451	103	NO
5 1,2,3,7,8,9-HxCDD	1.11e5	2.63e5	1.21	NO	0.887	35.24	35.23	NO	1.001	1.001	47.559	95.1	NO
6 1,2,3,4,6,7,8-HpCDD	8.5564	2.03e5	1.01	NO	0.864	38.78	38.79	NO	1.000	1.001	48.684	97.4	NO
7 OCDD	1.69e5	3.75e5	<b>0.86</b>	NO	0.914	41.78	41.79	NO	1.000	1.000	98.370	98.4	NO
8 2,3,7,8-TCDF	4.3264	6.45e5	0.74	NO	0.751	25.60	25.59	NO	1.001	1.001	8.9195	89.2	NO
9 1,2,3,7,8-PeCDF	2.13e5	5.03e5	1.50	NO	0.893	30.17	30.17	NO	1.001	1.001	47.402	94.8	NO
10 2,3,4,7,8-PeCDF	2.13e5	4.79e5	1.54	NO	0.935	31.15	31.15	NO	1.001	1.000	47.631	95.3	NO
11 1,2,3,4,7,8-HbcDF	1.2465	2.88e5	1.21	NO	0.884	33. <b>95</b>	<b>33.96</b>	NO	1.000	1.000	48.561	97.1	NO
12 1,2,3,6,7,8-HxCDF	1.52e5	3.50e5	1.21	NO	0.889	34.08	34.08	NO	1.000	1.000	48.921	97.8	NO
18	1.39e5	3.11e5	1.22	NO	0.934	34.69	34.68	NO	1.001	1.000	47.830	<b>95</b> .7	NO
14 1,2,3,7,8,9-HxCDF	1.01e5	2.41e5	1.22	NO	0.871	35.60	35.59	NO	1.001	1.000	48.069	96.1	NO
15 1,2,3,4,6,7,8-HpCDF	9.4264	2.22e5	0.99	NO	0.873	37.40	37.38	NO	1.001	1.001	48.684	97.4	NO
16 1,2,3,4,7,8,9-HpCDF	7.38e4	1.40e5	0.96	NO	1.01	39.32	39.33	NO	1.000	1.000	52.017	104	NO
17 OCDF	1.57e5	4.02e5	0.86	NO	0.806	41.97	41.98	NO	1.000	1.000	96.792	96.8	NO
18 13C-2,3,7,8-TCDD	5.2865	4.62e5	0.76	NO	1.16	28.45	26.45	NO	1.025	1.026	96.991	<b>99.0</b>	NO
19 13C-1,2,3,7,8-PeCDD	3.7465	4.62e5	0.62	NO	0.849	31.46	31.44	NO	1.219	1.219	95.444	95.4	NO
20 13C-1,2,3,4,7,8-HxCDD	2.47e5	2.99e5	1.26	NO	0.779	34.82	34.83	NO	1.014	1.014	105.87	108	NO
21 13C-1,2,3,6,7,8-HxCDD	3. <b>32e5</b>	2.99e5	1.25	NO	1.02	34.92	34.93	NO	1.017	1.017	109.13	109	NO
22 13C-1,2,3,7,8,9-HxCDD	2.63e5	2.99e5	1.23	NO	0.903	35.23	35.21	NO	1.028	1.025	97.355	97.4	NO
23 13C-1,2,3,4,6,7,8-HpCDD	2. <b>03e5</b>	2.99e5	1.00	NO	0.689	38.77	38.77	NO	1.129	1.129	98.488	98.5	NO
24 13C-OCDD	3.75e5	2.99e5	<b>88.0</b>	NO	0.652	41.78	41.78	NO	1.216	1.216	192.14	96.1	NO .
25 · 25 13C-2,3,7,8-TCDF	6.45e5	5.93e5	0.73	NO	1.08	25.56	25.57	NO	0.991	0.991	102.83	103	NO
26 13C-1,2,3,7,8-PeCDF	5.03e5	5.93e5	1.57	NO	0.838	30.17	30.15	NO	1.170	1.169	101.23	101	NO
27 13C-2,3,4,7,8-PeCDF	4.79e5	5.93e5	1.57	NO	0.817	31.15	31.13	NO	1.207	1.207	98.989	<b>99</b> .0	NO
28 13C-1,2,3,4,7,8-HxCDF	2.88e5	2.99e5	0.50	NO	1.01	33.95	33.95	NO	0.989	0.989	95.473	95.5	NO
29 13C-1,2,3,6,7,8-HxCDF	3.50e5	2.99e5	0.50	NO	1.17	34.07	34.07	NO	0.992	0.992	100.09	100	NO
30 13C-2,3,4,6,7,8-HxCDF	3.11e5	2.9985	0.50	NO	1.02	34.65	34.67	NO	1.009	1.009	101.67	102	NO

× •\*

# Quantify Sample Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory MassLynx 4.1 SCN815

### Dataset: U:\VG12.PRO\Results\200707R2\200707R2-1.qld

Last Altered:	Tuesday, July 07, 2020 1:53:33 PM Pacific Daylight Time
Printed:	Tuesday, July 07, 2020 1:53:59 PM Pacific Daylight Time

## Name: 200707R2\_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

- <b>32</b>	# Name			<b>R</b> A	nlý	RRF	Pred.RT	RT	RT Flig	and the state of the second	Service Service			
31	31 13C-1,2,3,7,8,9-HxCDF	2.41e5	2.99e5	0.48	NO	0.860	35.58	35.58	NO	1.036	1.036	93.515	93.5	NO
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.22e5	2.99e5	0.43	NO	0.774	37.36	37.36	NO	1.088	1.088	95.568	95.6	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.40e5	2.99e5	0.45	NO	0.521	39.33	39.32	NO	1.145	1.145	89.794	89.8	NO
34	34 13C-OCDF	4.02e5	2.99e5	0.87	NO	0.746	41.97	41.97	NO	1.222	1.222	180.03	90.0	NO
35	35 37CI-2,3,7,8-TCDD	4.4664	4.62e5			1.04	26.47	26.48	NO	1.026	1.027	9.3171	93.2	NO
36	36 13C-1,2,3,4-TCDD	4.62e5	4.62e5	0.77	NO	1.00	25.74	25.80	NO	1.000	1.000	100.00	100	NO
	37 13C-1,2,3,4-TCDF	5.93e5	5.93e5	0.78	NO	1.00	24.03	24.10	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	2.99e5	2.9985	0.50	NO	1.00	34.29	34.35	NO	1.000	1.000	100.00	100	NO

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#### Quantify Compound Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, July 08, 2020 7:10:35 AM Pacific Daylight Time Wednesday, July 08, 2020 7:10:40 AM Pacific Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\1613\_rrt-7-3-20.mdb 03 Jul 2020 12:13:21 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-6-28-20.cdb 28 May 2020 16:52:08

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

<b>*</b>	NUNG		Abq Dela	Aby.Time
<b>T</b> est the set of the	200707R2_1	ST200707R2_1 1613 CS3 19L2305	07-Jul-20	12:59:11
2	200707R2_2	B0F0283-BS1 OPR 1	07- <b>Jul-20</b>	13:47:43
3	200707R2_3	B0F0280-BS1 OPR 10	07-Jul-20	14:34:04
A State of the	200707R2_4	SOLVENT BLANK	07-Jul-20	15:19:31
5	200707R2_5	B0F0283-BLK1 Method Blank 1	07-Jul-20	16:04:56
	200707R2_6	B0F0280-BLK1 Method Blank 10	07-Jul-20	16:50:19
7	200707R2_7	2001274-02 Field Blank 177-08Jun2020 0.948	07-Jul-20	17:35:44
	200707R2_8	2001274-04 Field Blank 919-08Jun 2020 0.94	07-Jul-20	18:21:08
	200707R2_9	2001274-06 Field Blank ATG160-08Jun2020 0	07-Jul-20	19:08:31
10	200707R2_10	2001347-01 Bleach Plant Effluent 0.84451	07-Jul-20	19:51:55
	200707R2_11	2001274-01 177-08Jun2020 0.9589	07-Jul-20	20:37:19
	200707R2_12	2001274-03 919-08Jun2020 0.94562	07-Jul-20	21:22:42
13	200707R2_13	2001274-05 ATG 160-08 Jun 2020 1.03714	07-Jul-20	22:08:08
	200707R2_14	2001155-01 PDI-1175SC-A-01-02-200522 11.08	07-Jul-20	22:53:30
	200707R2_15	2001035-01RE1 PDI-050SC-A-00-01-200508	07-Jul-20	23:38:54

Page 1 of 1

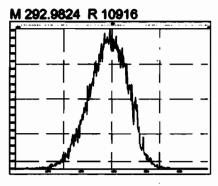
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# MassLynx 4.1 SCN815

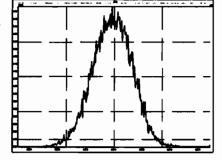
Page 1 of 1

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

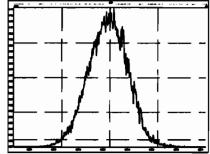
Printed: Tuesday, July 07, 2020 12:55:21 Pacific Daylight Time

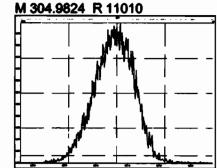


M 342.9792 R 10639

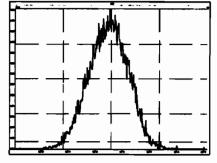


M 392.9760 R 10871

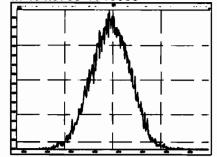


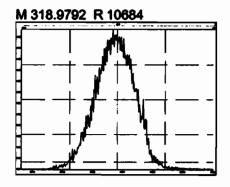


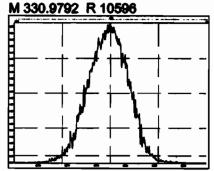
M 354.9792 R 10968



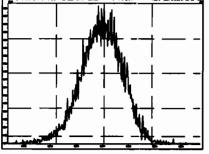
M 404.9760 R 10638



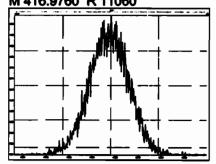




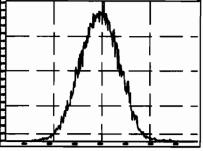
M 366.9792 R 11207



# M 416.9760 R 11060



M 380.9760 R 10964

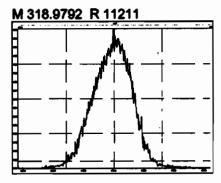


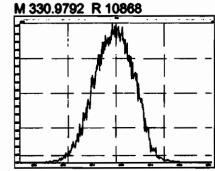
# MassLynx 4.1 SCN815

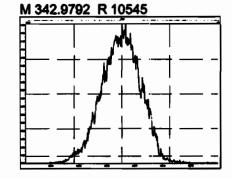
Page 1 of 1

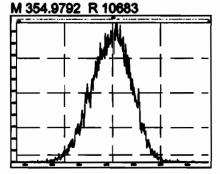
File: Experiment: OCDD\_D85.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, July 07, 2020 12:55:46 Pacific Daylight Time

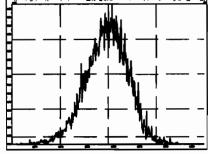




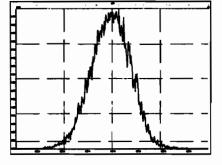




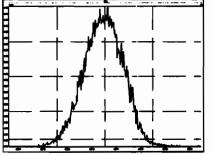
M 366.9792 R 10501

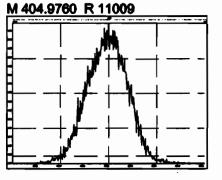


M 380.9760 R 11062

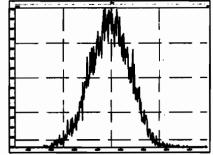








### M 416.9760 R 10868

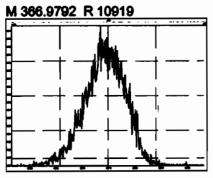


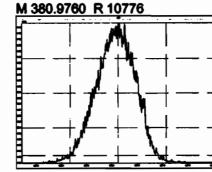
# MassLynx 4.1 SCN815

Page 1 of 1

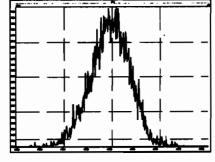
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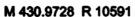
Printed: Tuesday, July 07, 2020 12:56:08 Pacific Daylight Time

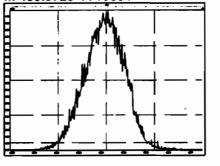


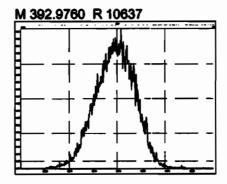




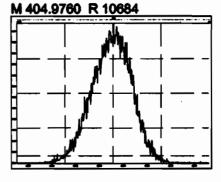




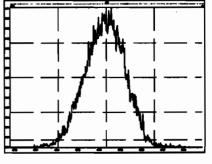




M 442.9728 R 10638





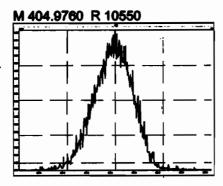


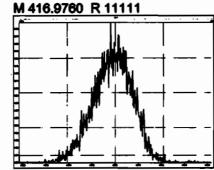
## MassLynx 4.1 SCN815

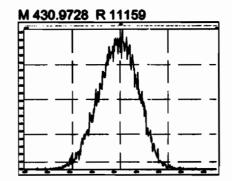
Page 1 of 1

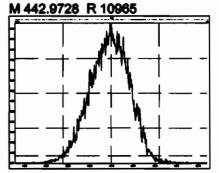
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Printed: Tuesday, July 07, 2020 12:56:27 Pacific Daylight Time

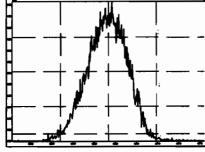




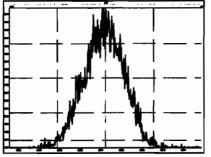


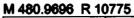


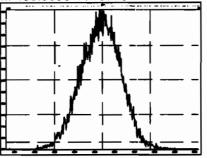










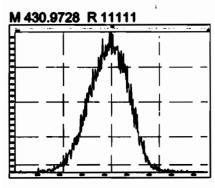


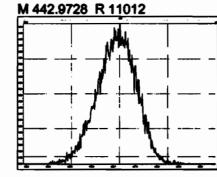
# MassLynx 4.1 SCN815

Page 1 of 1

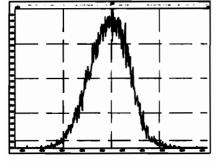
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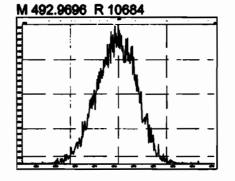
Printed: Tuesday, July 07, 2020 12:56:43 Pacific Daylight Time

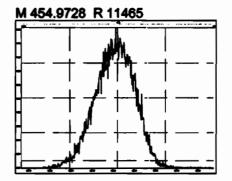


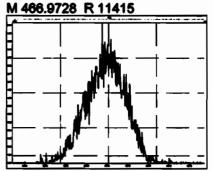




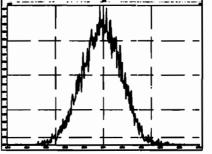




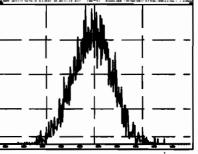




M 504.9696 R 11015







Quantify Sample Summary Report	MassLynx 4.1 SCN815
Vista Analytical Laboratory VG-11	

Dataset: Untitled

Last Altered: Tuesday, July 07, 2020 1:46:38 PM Pacific Daylight Time Printed: Tuesday, July 07, 2020 1:46:59 PM Pacific Daylight Time

#### Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

#### Name: 200707R2\_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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		and the second se
	1 1,3,6,8-TCDD (First)	22.44
2	2 1,2,8,9-TCDD (Last)	27.44
3	3 1,2,4,7,9-PeCDD (First)	29.22
	4 1,2,3,8,9-PeCDD (Last)	31.83
	5 1.2,4,6,7,9-HbcCDD (First)	33.33
	6 1.2,3,7,8,9-HbcCDD (Last)	35.23
7	7 1.2,3,4,6,7,9-HpCDD (First)	37.78
1	8 1,2,3,4,6,7,8-HpCDD (Last)	38.79
	9 1,3,6,8-TCDF (First)	20.33
	10 1,2,8,9-TCDF (Last)	27.59
	11 1,3,4,6,8-PeCDF (First)	27.55
Provide and the second	12 1.2.3,8.9-PeCDF (Last)	32.09
	13 1.2,3,4,6,8-HxCDF (First)	32.78
	14 1,2,3,7,8,9-HxCDF (Last)	35.59
	15 1.2,3,4,6,7,8-HpCDF (First)	37.38
6 6 5 54	16 1,2,3,4,7,8,9-HpCDF (Last)	39.33

Page 1 of 1

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#### Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory VG-11

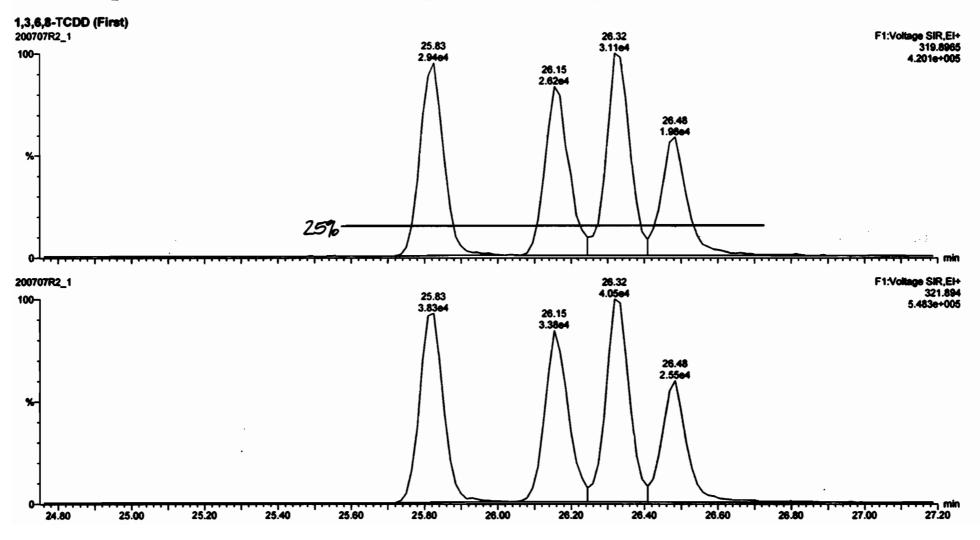
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GRB 0/07/2020

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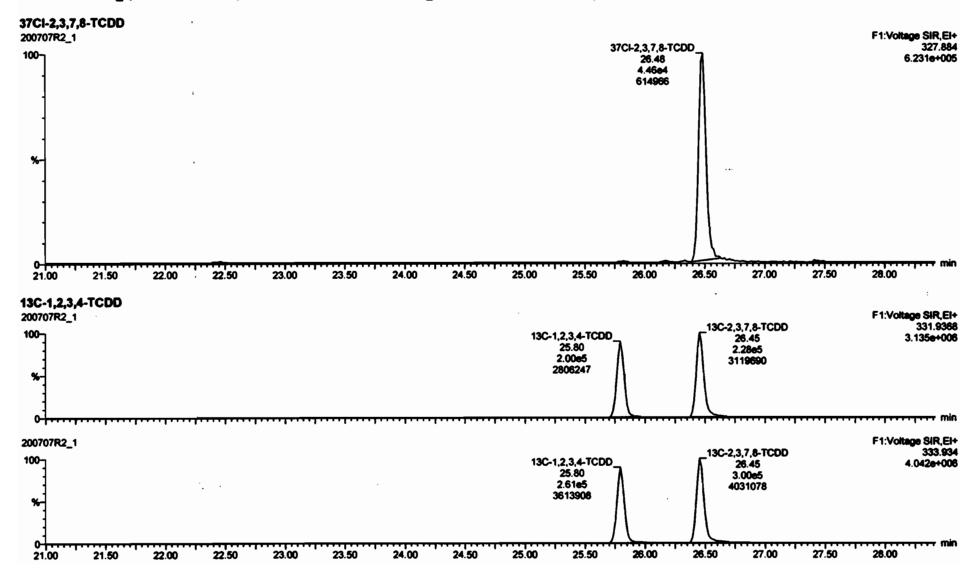
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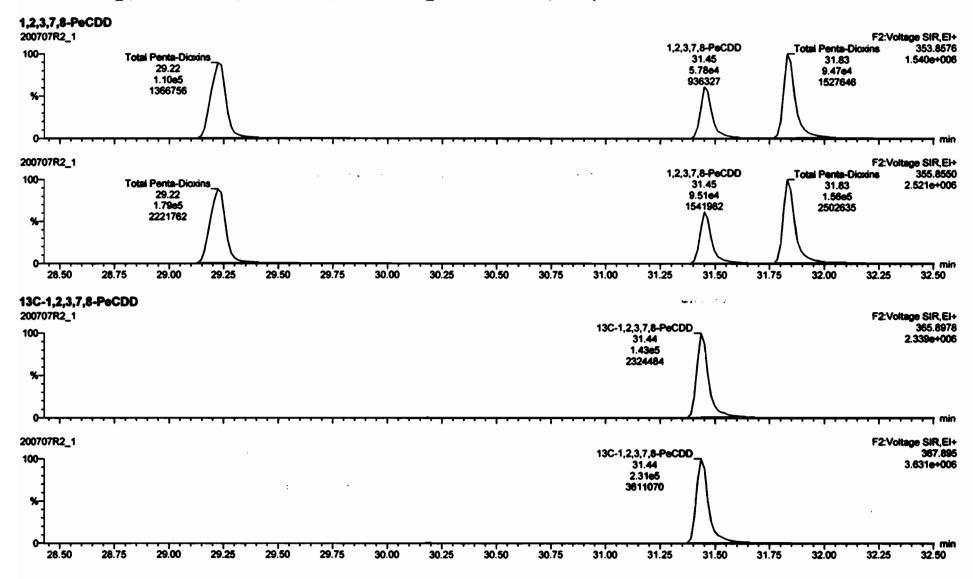
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3,7,8-TCDD							<b>.</b> .
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~	Total Tetra-Dio 22.44	xins7\			1 1	27.44 2.83 <del>0</del> 4	4.505e+
%-	3.28e4 329536	$\Lambda$			$\Lambda$ $\Lambda \Lambda$	443285	
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0707R2_1					.1		F1:Voltage SIR,
ייייי <u>-</u> יי 10				Total Tetra-Dioxins;26.3	2;4.0504;543353	Total Tetra-Dioxins 27.44	321. 5.785 <del>e+</del>
	Total Tetra-Dio: 22.44 4.25e4	ans			$\Lambda \Lambda \Lambda$	3.8264 571475	
<b>%</b> -	436168	$\Lambda$			$\Lambda$ $\Lambda\Lambda$	\ /	
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		22.30 23.00 23	.50 24.00 24.50	25.00 25.30	26.00 26	.50 21.00 21	7.50 28.00
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ю.				13C-1,2,3,4-TCDI 25.80	<sup>2</sup> 1	_13C-2,3,7,8-TCDD 28.45	331.9 3.135 <del>6+</del>
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<b>%</b> ]				13C-1,2,3,4-TCDI 25.80	<sup>2</sup> 1	_13C-2,3,7,8-TCDD 26.45 3.00e5	333. 4.042 <del>0+</del>
*				2.61e5 3613908		4031078	• .
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<b>Quantify Sam</b> Vista Analytica		Page 3 of 13
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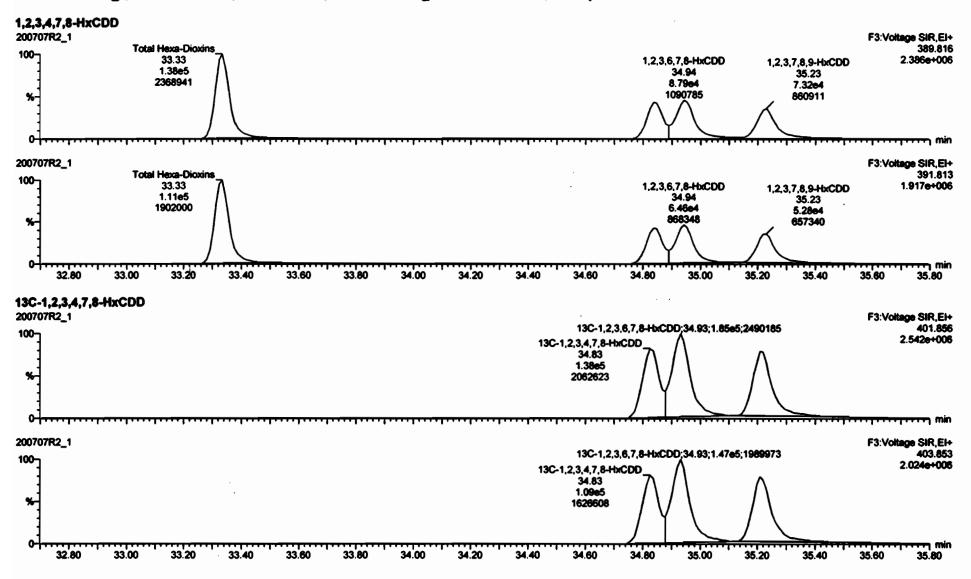


# Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory Vista Analytical Laboratory

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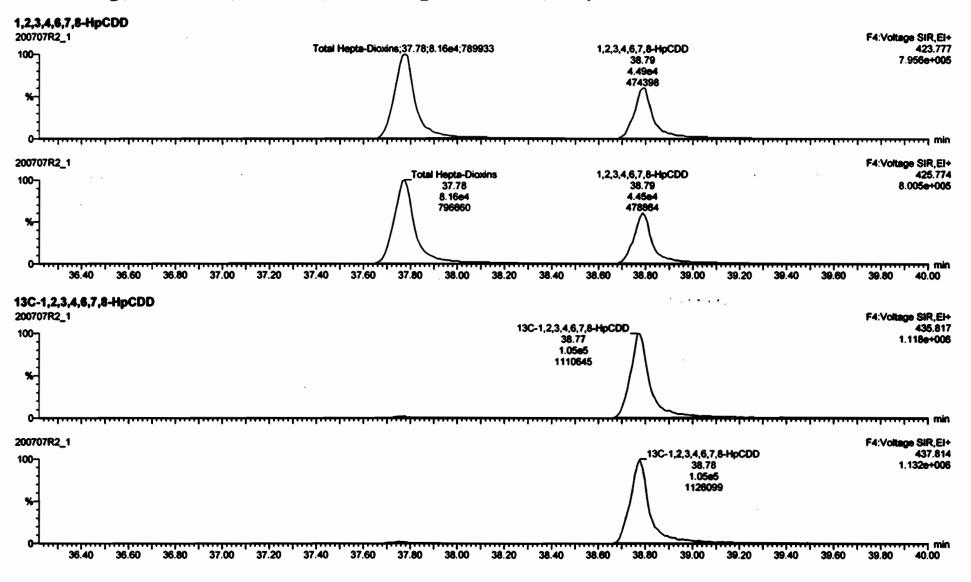
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# Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory Vista Analytical Laboratory

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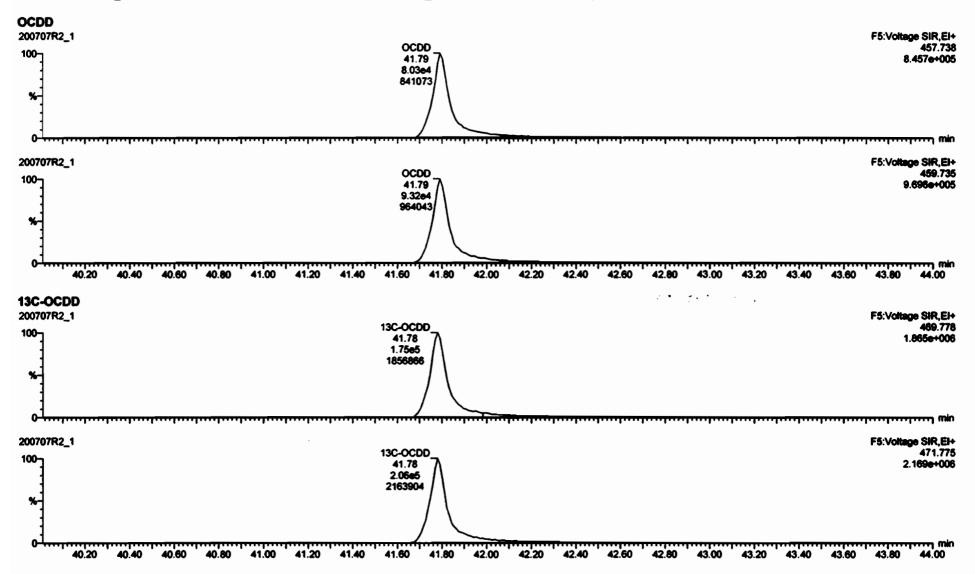
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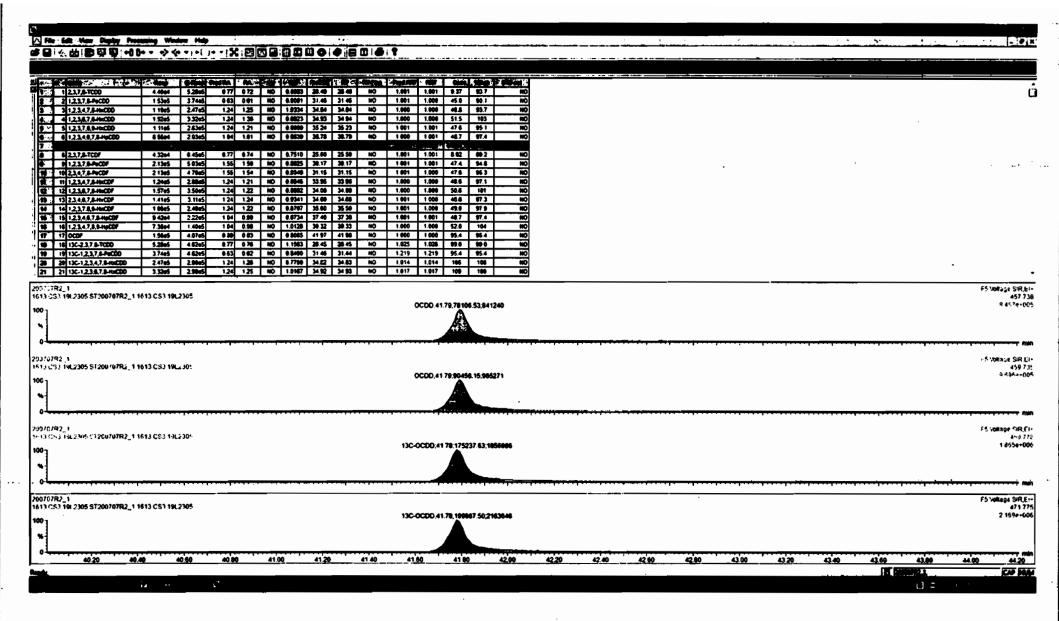


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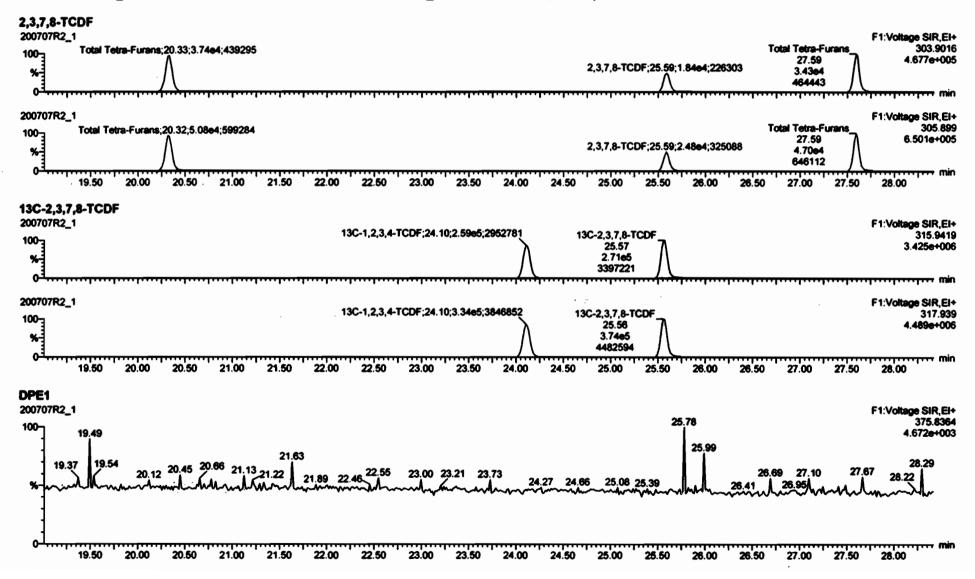


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# Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory MassLynx 4.1 SCN815

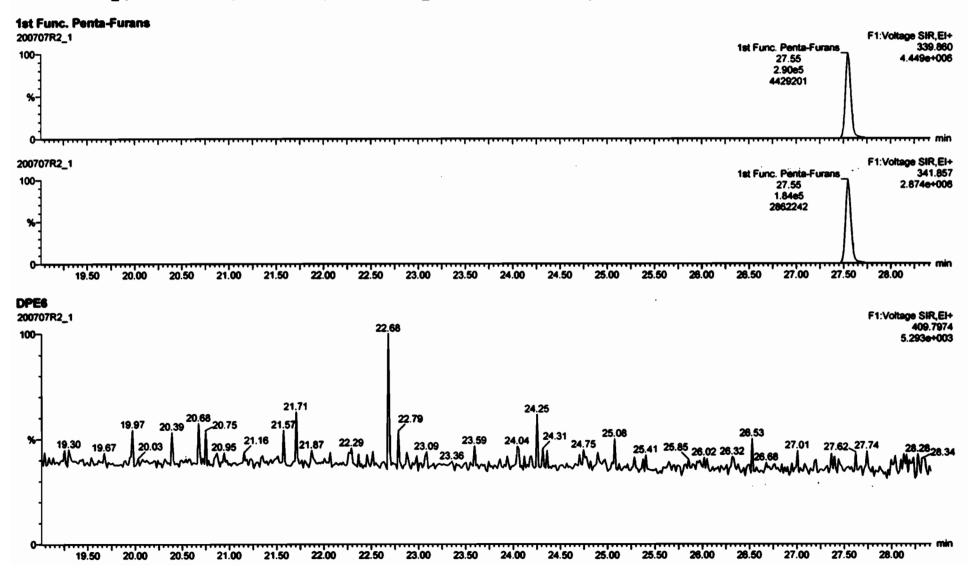
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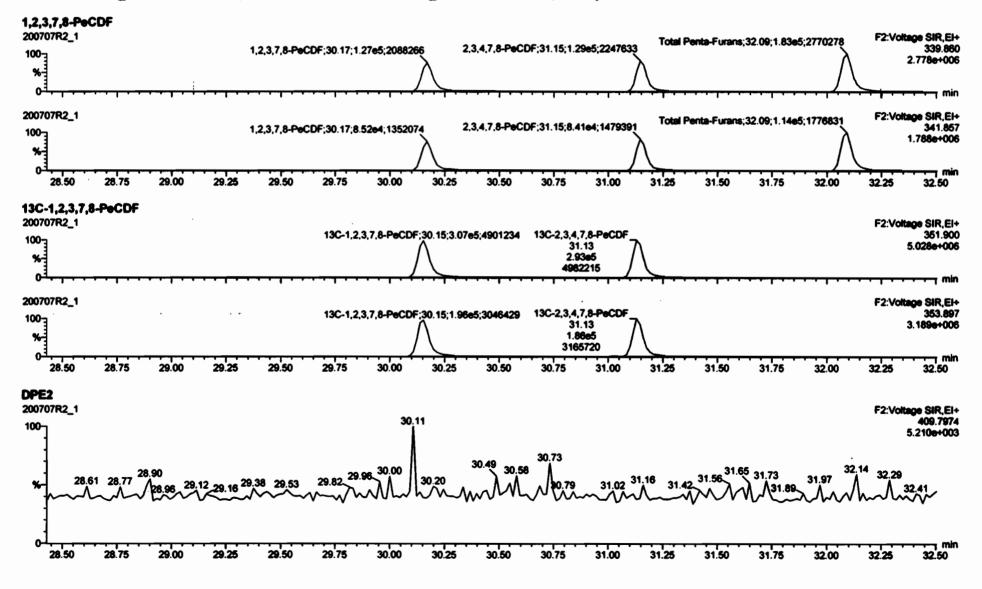
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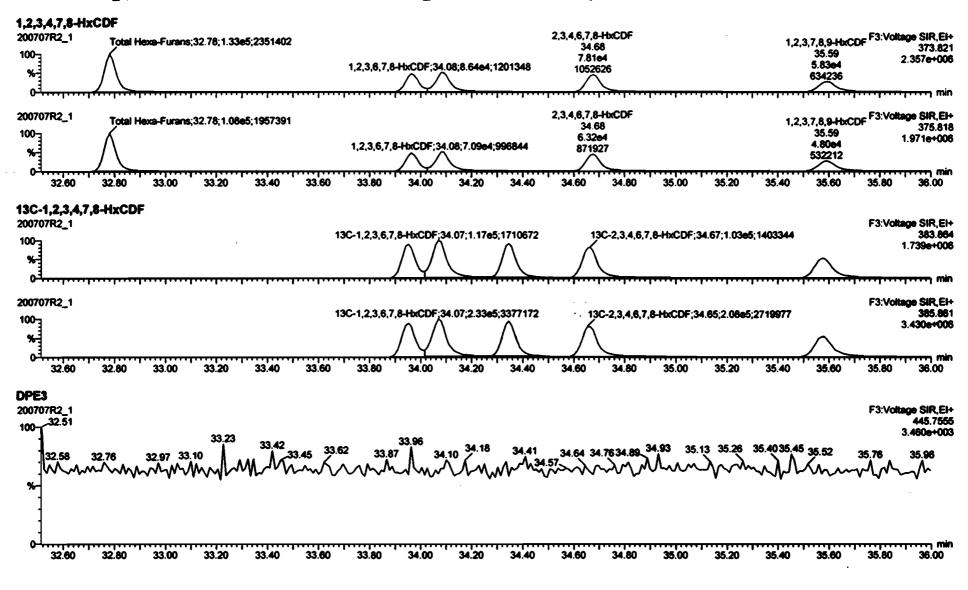


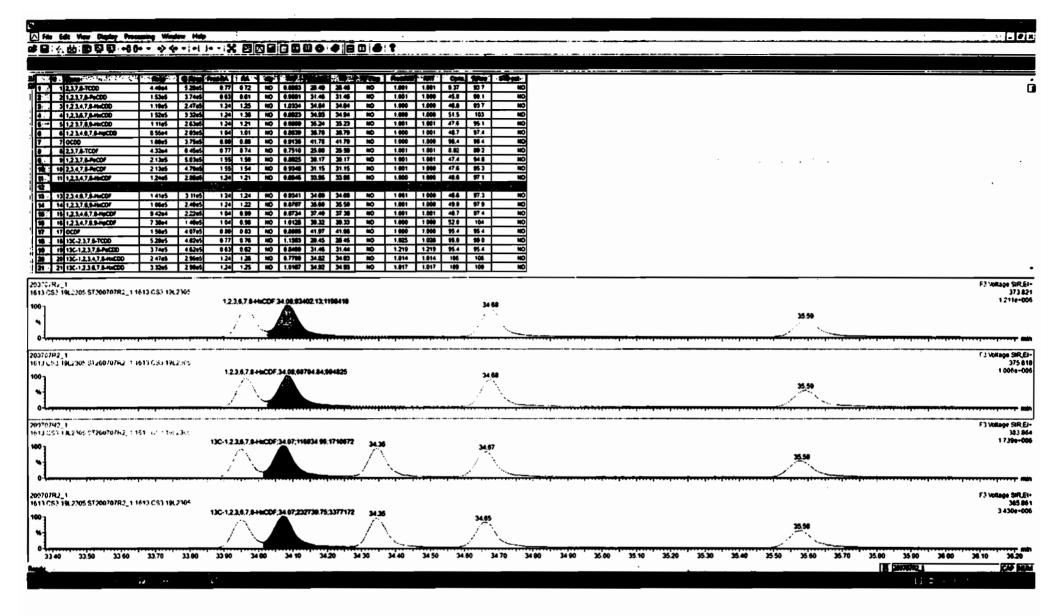
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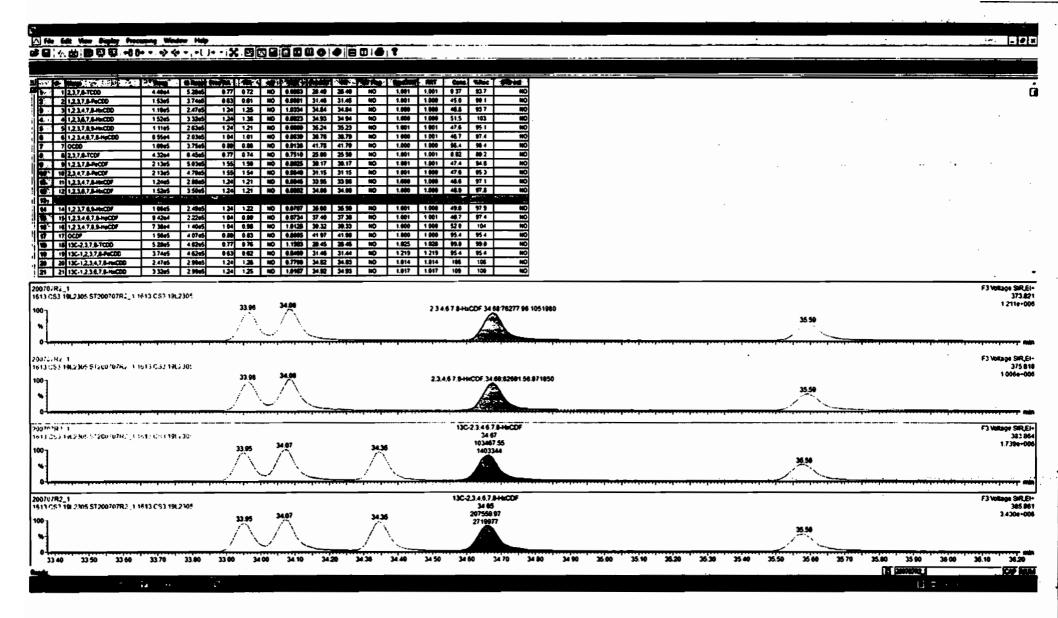
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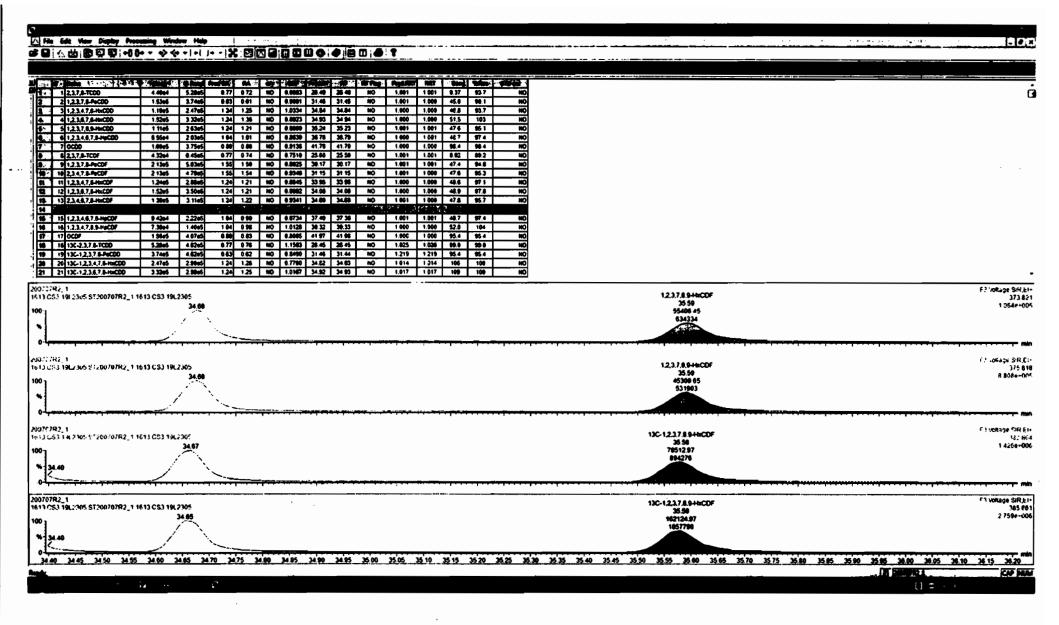
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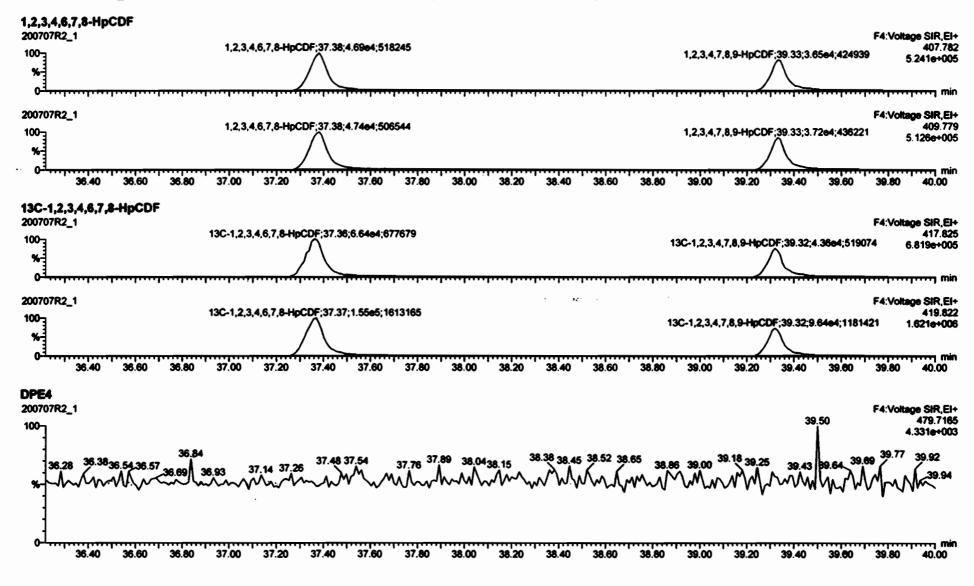






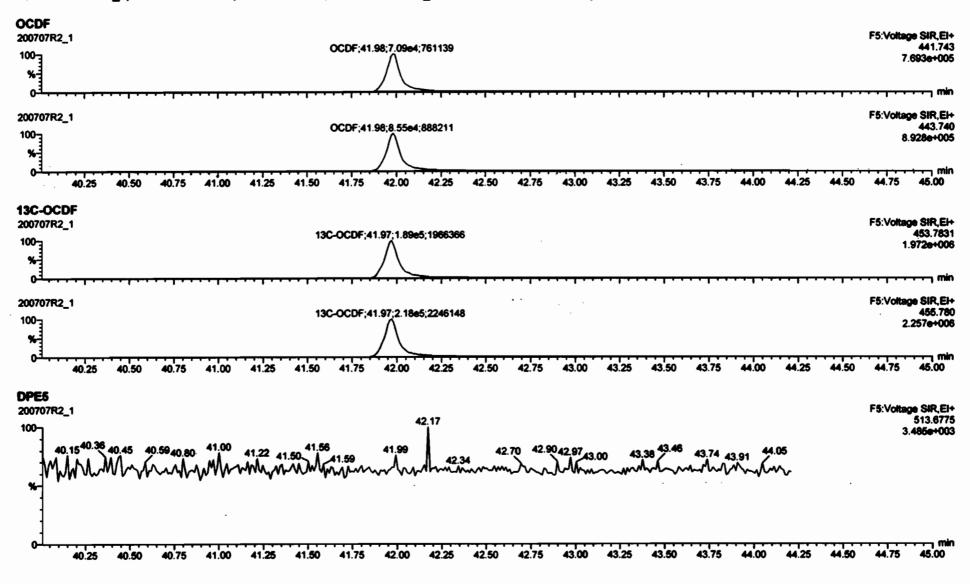
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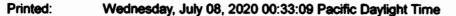
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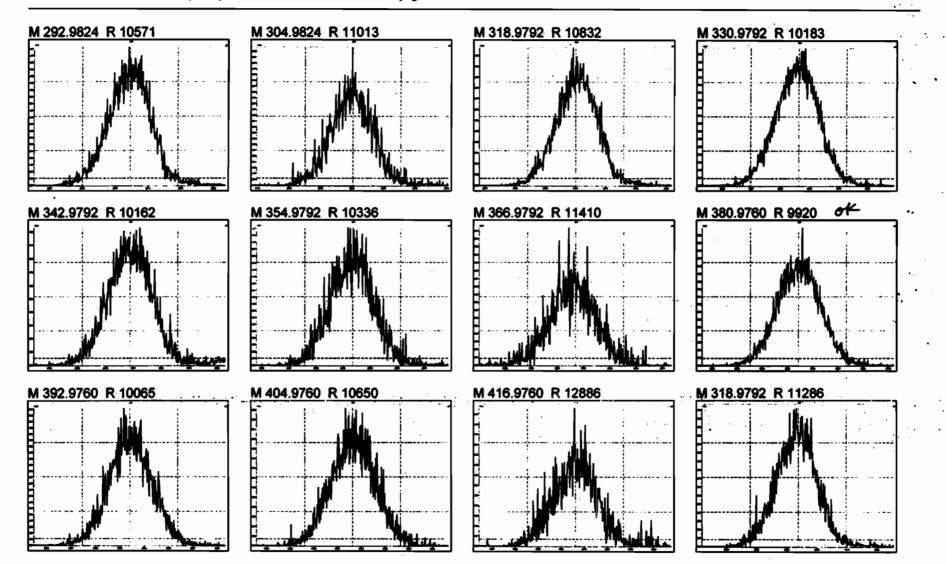
### Name: 200707R2\_1, Date: 07-Jul-2020, Time: 12:59:11, ID: ST200707R2\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

PFK1 200707R2_1 19.70;7.51e4;405669 20.42 20.62;1.12e4;117523 21.75;1.68e4;130948 23.09 23.64;1.48e3;74531 24.46 25.11;6.93e3;156121 26.39;8.30e3;119792 27.41;7.23e3;1	
19:50       20:00       20:50       21:00       22:50       23:00       23:50       24:00       24:50       25:50       26:00       26:50       27:00       27:50         PFK2       200707R2_1       28:78;3.80e5;587285       28:78;3.80e5;587285       28:78;3.80e5;587285       30:40:30.44       30:67       30:86       31.16       31.24:31.27:31.48       31.69       31.77       31.94       32:11       30:40:30.44       30:67       30:86       31.16       31.24:31.27:31.48       31.69       31.77       31.94       32:11       30:40:30.44       30:67       30:86       31.16       31.24:31.27:31.48       31.69       31.77       31.94       31.16         9       28:51       28:51       30:40:30.44       30:67       30:86       31.16       31.24:31.27:31.48       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77       31.94       31.77	0 28.00 F2:Voltage SIR,EI+ 32.20 366.9792 T.1226+006
0 <sup>1</sup> 28.50 28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 30.75 31.00 31.25 31.50 31.75 32.00	32.25 32.50
<b>PFK3</b> 200707R2_1 100 32.51 32.51 32.60 33.00 33.00 33.00 33.60 34.00 34.00 34.60 35.00 35.00 35.00 35.20 35.00 35.20 35.00 35.20 35.00 35.20 35.00 35.20 35.00 35.20 35.00 35.20 35.00 35.20 35.00 35.20 35.00 35.20 35.00 35.20 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00	F3:Voltage SIR,EI+ 380.9760 35.78 4.816e+006
PFK4 200707R2_1 36.41;2.56e5;1488161 37.03 37.10 37.22 37.53 37.94.37.97 38.13 38.19 38.37 38.58 38.81 39.02 39.28 39.50 %	F4:Voltage SIR,EI+ 39.82 430.9728 3:225e+006
0 <sup>-1</sup>	,39.80 40.00
<b>PFK5</b> 200707R2_1 100 40.53;1.9665;437833 41.00 41.1441.43 41.6141.68 42.13 42.40 42.74 42.85 42.93 43.08 43.31 43.53 43.71 43.92 44.18	F5:Voltage SIR,EI+ 454.9728 2.138e+006

MassLynx 4.1 SCN815

# Page 1 of 4



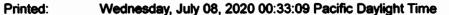


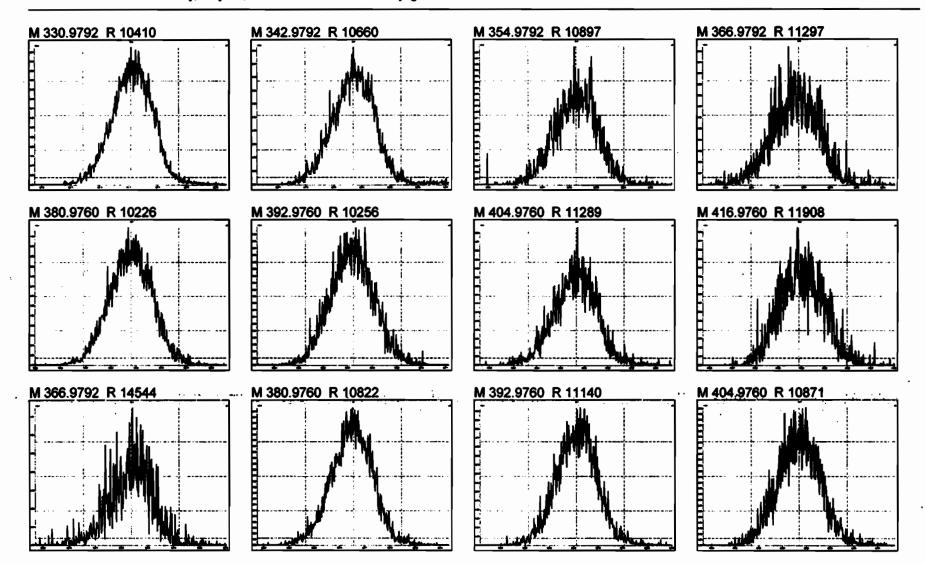
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MassLynx 4.1 SCN815

Page 2 of 4



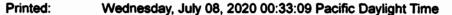


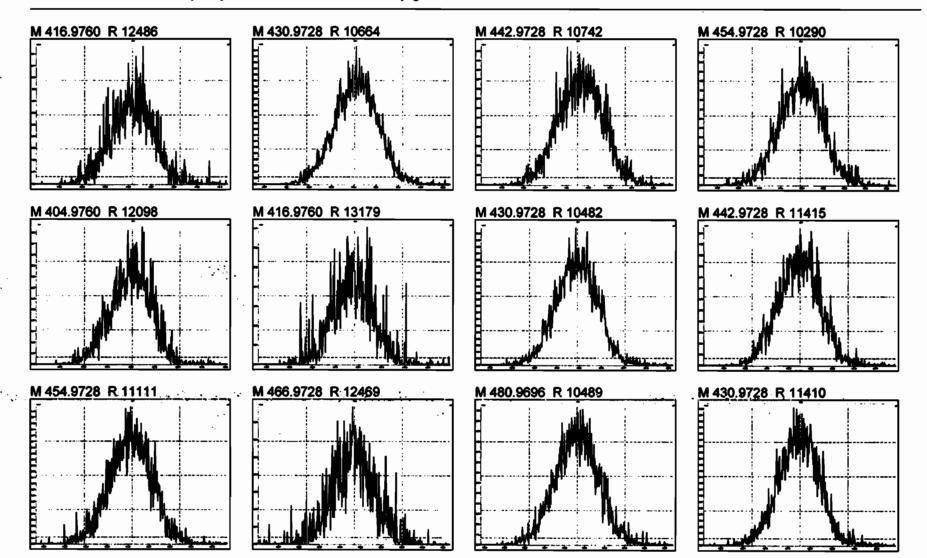
Work Order 2001155

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MassLynx 4.1 SCN815

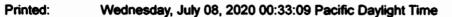
Page 3 of 4

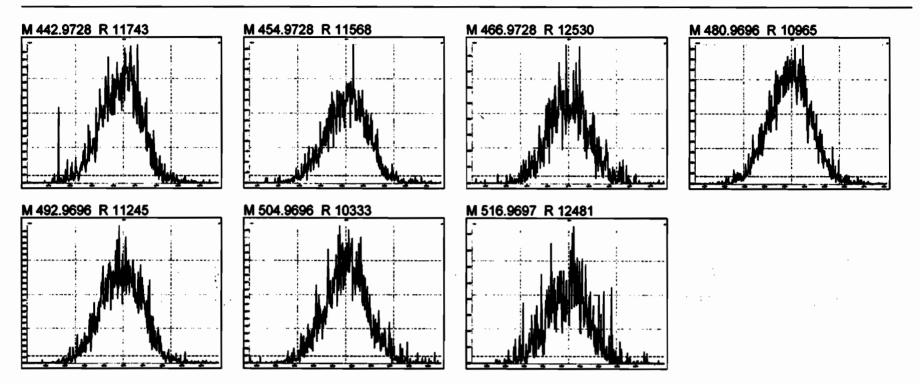




# MassLynx 4.1 SCN815

# Page 4 of 4





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# **HRMS CALIBRATION STANDARDS REVIEW CHECKLIST**

Beg. Calbration ID: ST200708D1-1		F	Leviewed By: (707/09/2020		
End Calibration ID:			initials & Date		
Ion abundance within QC limits?	Beg.	End	Mass resolution >	Beg.	End
Concentrations within criteria?	$\Box$		_ □ 5k □ 6-8K □ 8K ☑ 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%		NA	intergrated peaks display correctly?		2
First and last eluters present?	NH	UA	GC Break <20%		
<b>Retention Times within criteria?</b>			8280 CS1 End Standard:		•
Verification Std. named correctly?			- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		NA
(ST-Year-Month-Day-VG ID)			· · · · · · · · · · · · · · · · · · ·		
Forms signed and dated?			Comments:		,
Correct ICAL referenced?	)B_	)B_			
<u>Run Log:</u>	-				
- Correct Instrument listed?	~	$\checkmark$			
<ul> <li>Samples within 12 hour clock?</li> <li>Bottle position verfied?</li> </ul>	(Y)	N		•	

ID: LR - HCSRC

Quantify Sample Summary Report	MassLynx 4.1
Vista Analytical Laboratory	

U:\VG7.PRO\Results\200708D1\200708D1\_2.qld Dataset:

Last Altered:	Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time
Printed:	Wednesday, July 08, 2020 11:11:05 Pacific Daylight Time

DB 7/8/20 CT07/09/2020

#### Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52 Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1\_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

-	, Date: 00 001-2020,							, _				1613	8290	
<b>1</b> 2,3,7 2 13C		Resp	RA	n/y	RRF	wt/vol	Pred.RT		TRUNKRI'	- EQ.	Conce			Sec. 13.1
1 2,3,7	,8-TCDF	1.40e4	0.81	NO	0.982	1.000	16.925	16.95	1.000	1.001	8.7821	87.884-120		-
2 13C-	2,3,7,8-TCDF	1.62e5	0.75	NO	1.08	1.000	16.882	16.92	1.133	1.135	102.00	102 <b>71 - 140</b>	0.361 <b>70-130</b>	
	1,2,3,4-TCDF	1.47e5	0.76	NO	1.00	1.000	15.060	14.91	1.000	1.000	100.00	100	0.391	

### Quantify Compound Summary Report Vista Analytical Laboratory VG-11 MassLynx 4.1

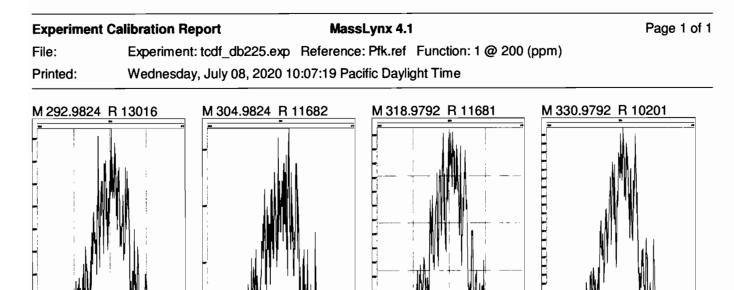
Untitled Dataset:

Last Altered: Thursday, July 09, 2020 09:30:53 Pacific Daylight Time Thursday, July 09, 2020 09:30:58 Pacific Daylight Time Printed:

#### Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52 Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

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

			Acq.Dete	
	200708D1_1	CP200708D1-1 DB-225 CPSM	08-Jul-20	10:08:20
	200708D1_2	ST200708D1-1 1613 CS3 19L2305	08-Jul-20	10:38:29
	200708D1_3	SOLVENT BLANK	08-Jul-20	11:10:12
	200708D1_4	2001022-11RE1 PDI-051SC-B-02-04-200506	. 08-Jul-20	11:41:57
	200708D1_5	2001243-03RE1 ISUXO20SS500001 21.23	08-Jul-20	12:13:38
-A.	200708D1_6	2001243-10RE1 ISUXO20SSP50P0001 21.03	08-Jul-20	12:45:20
	200708D1_7	2001033-01RE2 PDI-087SC-B-00-02-200509	. 08-Jul-20	13:17:06
	200708D1_8	2001207-02RE1 ISUXO20SB350102 11.15	08-Jul-20	13:48:46
	200708D1_9	2001207-03RE1 ISUXO20SS390001 15.85	08-Jul-20	14:20:29
	200708D1_10	2001207-04RE1 ISUXO20SB390102 12.79	08-Jul-20	14:52:11
	200708D1_11	2001035-02RE1 PDI-050SC-A-01-02-200508	. 08-Jul-20	15:27:49
	200708D1_12	2001035-08RE1 PDI-050SC-B-00-02-200508	. 08-Jul-20	15:57:51
	200708D1_13	2001035-11RE1 PDI-093SC-B-00-02-200508	. 08-Jul-20	16:29:33
See. 2	200708D1_14	2001035-12RE1 PDI-093SC-B-02-05-200508	. 08-Jul-20	17:01:15
	200708D1_15	2001035-13RE1 PDI-093SC-B-05-6.6-200508 .	08-Jul-20	17:32:52
	200708D1_16	2001155-01RE1 PDI-1175SC-A-01-02-200522.	08-Jul-20	18:04:33
11 (1995) - S	200708D1_17	2001155-02RE1 PDI-175SC-A-00-01-200522	. 08-Jul-20	18:36:13
and the second	200708D1_18	2001155-03RE1 PDI-175SC-A-01-02-200522	. 08-Jul-20	19:07:55
High line of	200708D1_19	2000855-15RE4 PDI-076SC-A-06-07-191013	. 08-Jul-20	19:40:02
- 46:22 L	200708D1_20	SOLVENT BLANK	08-Jul-20	20:11:45
	200708D1_21	ST200708D1-2 1613 CS3 19L2305	08-Jul-20	20:43:29



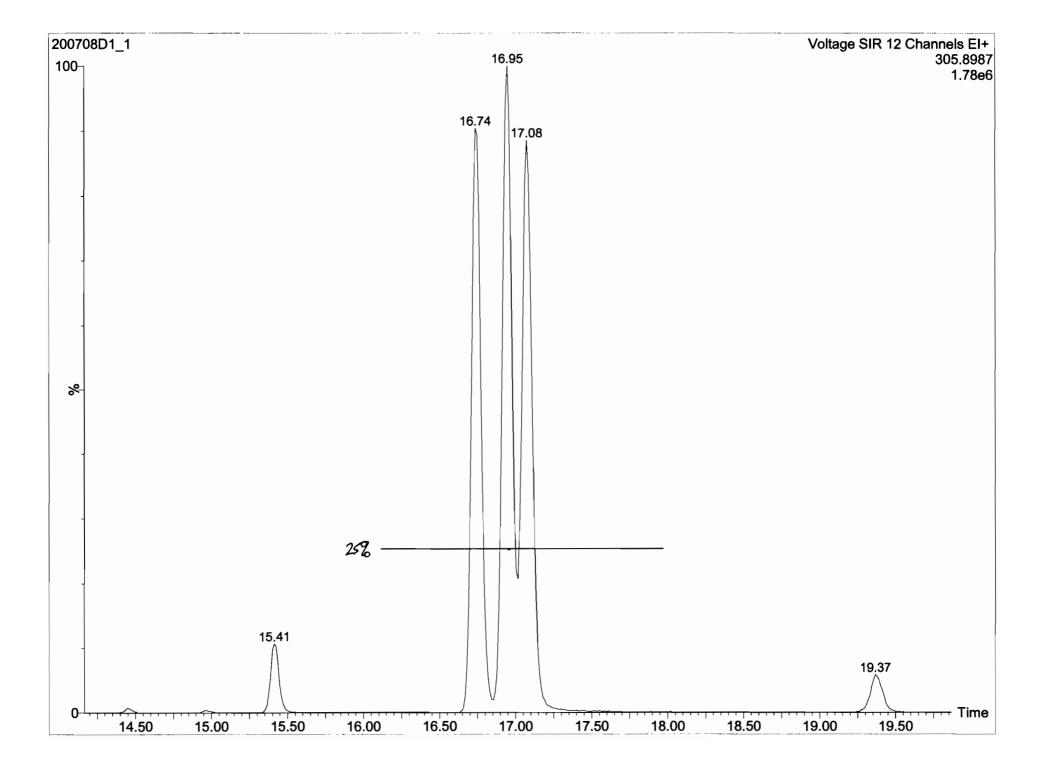
M 354.9792 R 16030

M 366.9792 R 12251

M 380.9760 R 11962

Ē

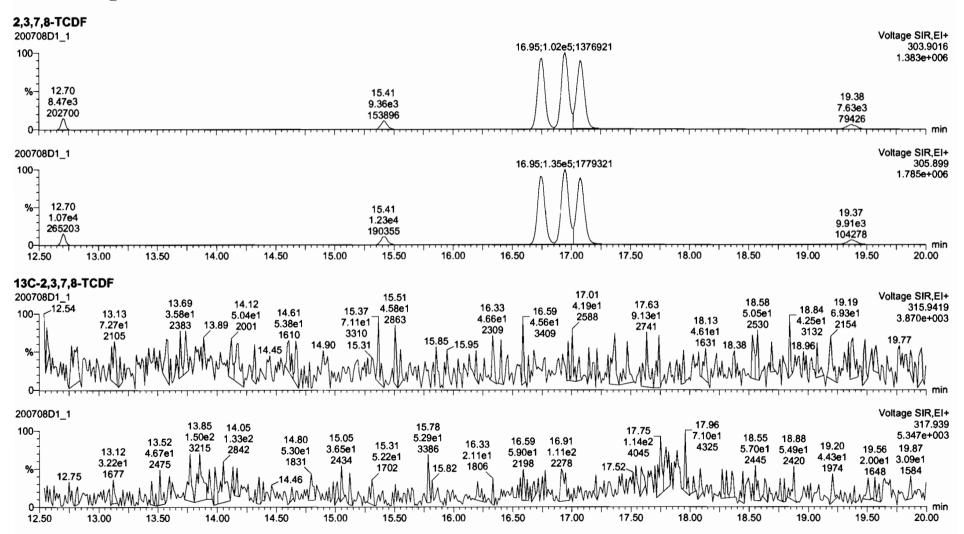
M 342.9792 R 10870



•	ast Altered: Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time	
Dataset:	U:\VG7.PRO\Results\200708D1\200708D1_1.qld	
Last Altered: Printed:	Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time Wednesday, July 08, 2020 11:12:35 Pacific Daylight Time	

#### Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52 Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

#### Name: 200708D1\_1, Date: 08-Jul-2020, Time: 10:08:20, ID: CP200708D1-1 DB-225 CPSM, Description: DB-225 CPSM



#### Quantify Sample Report MassLynx 4.1

Vista Analytical Laboratory VG-10

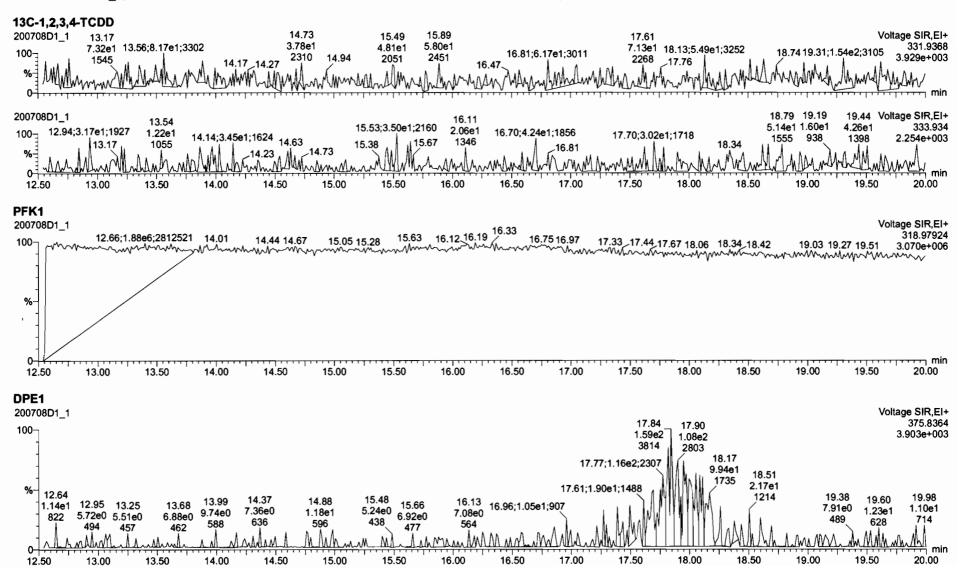
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Page 2 of 2

Dataset: U:\VG7.PRO\Results\200708D1\200708D1\_1.qld

Last Altered: Wednesday, July 08, 2020 11:11:41 Pacific Daylight Time Printed: Wednesday, July 08, 2020 11:12:35 Pacific Daylight Time

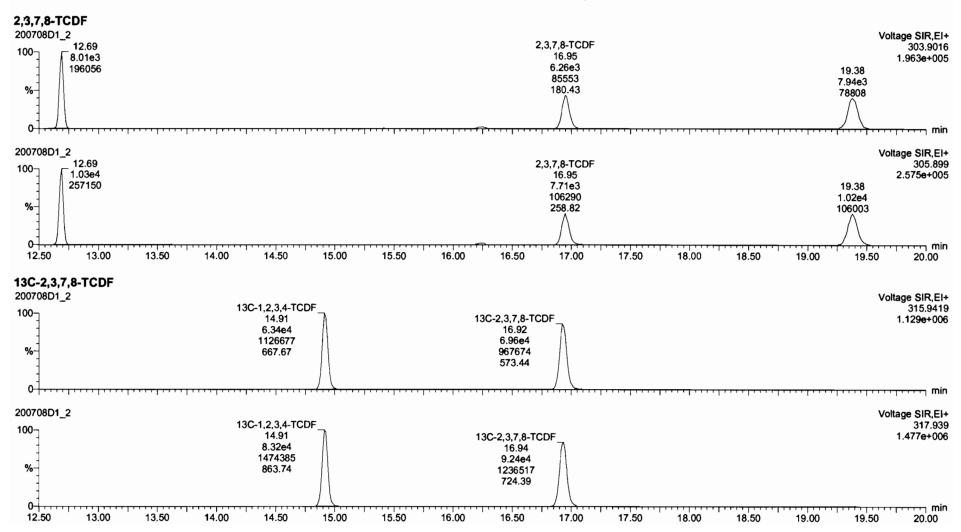
#### Name: 200708D1\_1, Date: 08-Jul-2020, Time: 10:08:20, ID: CP200708D1-1 DB-225 CPSM, Description: DB-225 CPSM



Quantify Sample Report       MassLynx 4.1       F         Vista Analytical Laboratory VG-10       F         Dataset:       U:\VG7.PRO\Results\200708D1\200708D1_2.qld			
Dataset:	U:\VG7.PRO\Results\200708D1\200708D1_2.qld		
Last Altered: Printed:	Wednesday, July 08, 2020 11:09:51 Pacific Daylight Time Wednesday, July 08, 2020 11:11:31 Pacific Daylight Time		

#### Method: U:\VG7.PRO\MethDB\tcdf.mdb 03 Jul 2020 14:40:52 Calibration: U:\VG7.PRO\CurveDB\db-225\_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200708D1\_2, Date: 08-Jul-2020, Time: 10:38:29, ID: ST200708D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



	I Laboratory VG-10										ge 2 of 2
ataset:	U:\VG7.PRO\Resu	ults\200708D1\200708	BD1_2.qld								
ast Altered: rinted:		08, 2020 11:09:51 Pa 08, 2020 11:11:31 Pa								_	
ame: 200708	D1_2, Date: 08-Ju	l-2020, Time: 10:38:2	29, ID: ST200708E	91-1 1613 CS3	19L2305, D	escription:	1613 CS3	19L2305			
3C-1,2,3,4-TC	CDD										
00708D1_2			15.52	3C-1,2,3,4-TCDD	;15.61;4.45 <b>e</b> 4;6	691179;438.68				Voltag	331.9368
<b>00</b> -			4.38e4 7 K	/						7.	.677e+005
%-			766777								
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- 1 - 1	1						, ,				,
00708D1_2			15.52	3C-1,2,3,4-TCDE	15 61 5 43e4	42021-871 92				Voltag	333.93 je SIR,EI
<b>00</b> - E			5.55e4 1 K	00-1,2,0,+-1000	, 10.01,0.4004,0					9.	.475e+00
<b>%</b>			946319 / \/								
0									_		mir
	3.00 13.50	14.00 14.50	15.00 15.50	16.00	16.50	17.00	17.50	18.00	18.50 19.0	0 19.50	
FK1		• • • • •									·
00708D1_2	13.7 2.22	8 14.17 93 4.55e3 15.34:1	1 2602-117120 45 20	16.0	16 72.2 02.2	143760 17	.53 17 73	10.01 10.1	18 88.4 61e3.1	Voltag 84247 19.51 10 70	318 9792
<sup>00</sup> 12.73 13	- 13.13 13.38 1AA2	51 153007 14.60	1.36e3;117139 15.38	15.73 16.3	MMMMMMAM	MAM_MM	mourin	18.24 18.3	mm Milen	84247 19.51 19.79	/529e+00
mm	3.01 mmmmmmmmmm	mann	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					• • • •		Y V	·
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]]											
12.50 13	3.00 13.50	14.00 14.50	15.00 15.50	16.00	16.50	17.00	17.50	18.00	18.50 19.0	0 19.50	mir 20.00
PE1											
00708D1_2										Voltag	e SIR,EI
00						17.22	.32			1	375.836 130e+00
-		44.00								19,40	
]	13.71	14.69 14.03 14.65 (	.14.76	15.92	16.37 16.56 10		17.52			19.58_19	66
			14.94	16.05	10	5.89	17.77 17	.89			.00
12.62 12	.97 13.33 13.41			15.78				18.17	18.55 18.95	19.25	

13.00

13.50

14.00

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15.00

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16.00

16.50

17.00

17.50

18.00

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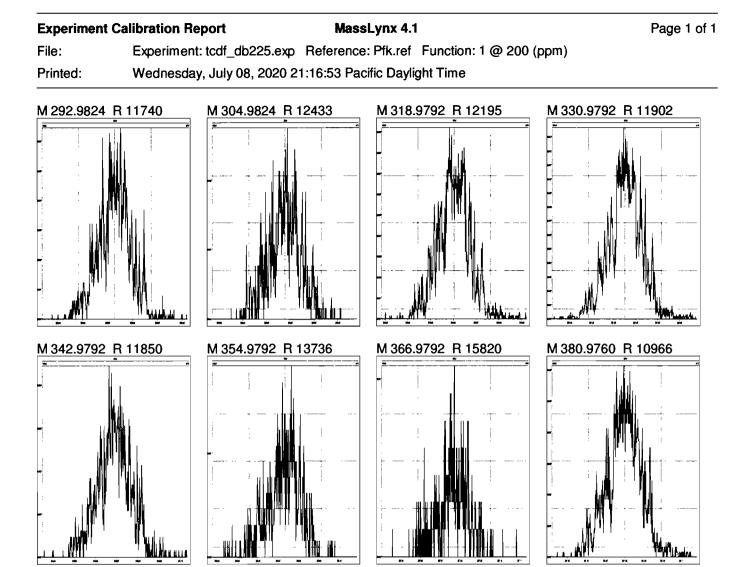
19.50

WU

----- min 20.00

18.50

19.00



# **INITIAL CALIBRATION**

Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

Last Altered: Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time Printed: Wednesday, May 27, 2020 11:54:01 Pacific Daylight Time

DB 5/27/20 CTUS/27/2020

#### Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

Compound name: 2,3,7,8-TCDD Response Factor: 0.986442 RRF SD: 0.13547, Relative SD: 13.7332 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	200526D2_2	0.250	0.87	NO	26.16	1.001	2.84e2	1.15e5	0.251	0.3	0.990	MM
2	200526D2_3	0.500	0.86	NO	26.19	1.001	6.01e2	1.13e5	0.540	8.1	1.07	bb
3	200526D2_4	2.00	0.78	NO	26.17	1.001	1.98e3	1.21e5	1.66	-16.8	0.820	bb
4	200526D2_5	10.0	0.82	NO	26.19	1.001	1.00e4	1.15e5	8.86	-11.4	0.874	db
5	200526D2_6	40.0	0.80	NO	26.19	1.001	4.74e4	1.22e5	39.4	-1.6	0.970	bb
6	200526D2_7	300	0.80	NO	26.19	1.001	3.68e5	1.02e5	364	21.5	1.20	bb

#### Compound name: 1,2,3,7,8-PeCDD Response Factor: 0.963666 RRF SD: 0.129338, Relative SD: 13.4215 Response type: Internal Std ( Ref 19 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1 - m	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	0.63	NO	30.61	1.000	8.84e2	8.06e4	1.14	-9.0	0.877	bb
2	200526D2_3	2.50	0.67	NO	30.63	1.001	2.07e3	8.18e4	2.63	5.2	1.01	bb
3	200526D2_4	10.0	0.61	NO	30.63	1.001	7.46e3	8.84e4	8.76	-12.4	0.844	bb
4	200526D2_5	50.0	0.62	NO	30.63	1.001	3.66e4	8.41e4	45.2	-9.6	0.871	bb
5	200526D2_6	200	0.62	NO	30.63	1.001	1.76e5	8.91 <b>e</b> 4	205	2.6	0.988	bb
6	200526D2_7	1500	0.63	NO	30.63	1.000	1.40e6	7.85e4	1850	23.2	1.19	bb

Page 1 of 16

Dataset:	U:\VG7.PRO\Results\200526D2\200526D2	CRV.qld
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Last Altered:	Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time
Printed:	Wednesday, May 27, 2020 11:54:01 Pacific Daylight Time

Compound name: 1,2,3,4,7,8-HxCDD Response Factor: 1.16246 RRF SD: 0.166976, Relative SD: 14.364 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	200526D2_2	1.25	1.27	NO	33.95	1.001	7.92e2	6.23e4	1.09	-12.5	1.02	bd
2	200526D2_3	2.50	1.28	NO	33.94	1.000	1.90e3	6.18 <b>e</b> 4	2.64	5.4	1.23	bd
3	200526D2_4	10.0	1.21	NO	33.95	1.000	6.57e3	6.66e4	8.48	-15.2	0.986	bd
4	200526D2_5	50.0	1.26	NO	33.95	1.000	3.52e4	6.49e4	46.6	-6.7	1.08	bd
5	200526D2_6	200	1.25	NO	33.95	1.000	1.72e5	7.00e4	212	5.8	1.23	bd
6	200526D2_7	1500	1.25	NO	33.96	1.000	1.43e6	6.66e4	1850	23.2	1.43	bd

Compound name: 1,2,3,6,7,8-HxCDD Response Factor: 1.00759 RRF SD: 0.120605, Relative SD: 11.9697 Response type: Internal Std ( Ref 21 ), Area \* ( IS Corrc. / IS Area ) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.12	NO	34.05	1.000	8.39e2	7.10e4	1.17	-6.1	0.946	db
2	200526D2_3	2.50	1.30	NO	34.06	1.000	1.99e3	7.22e4	2.73	9.2	1.10	db
3	200526D2_4	10.0	1.22	NO	34.06	1.001	6.99e3	7.92e4	8.76	-12.4	0.883	db
4	200526D2_5	50.0	1.29	NO	34.06	1.001	3.48e4	7.68e4	44.9	-10.2	0.905	db
5	200526D2_6	200	1.25	NO	34.06	1.000	1.70e5	8.35e4	202	1.0	1.02	db
6	200526D2_7	1500	1.23	NO	34.07	1.000	1.38e6	7.72e4	1780	18.4	1.19	db

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

Response Factor: 1.00838 RRF SD: 0.138343, Relative SD: 13.7193 Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

19718	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.26	NO	34.37	1.001	7.73e2	6.94e4	1.10	-11.7	0.890	bb
2	200526D2_3	2.50	1.15	NO	34.34	1.000	2.00e3	7.14e4	2.78	11.2	1.12	bb

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Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld

Last Altered:	Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time
Printed:	Wednesday, May 27, 2020 11:54:01 Pacific Daylight Time

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

-	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200526D2_4	10.0	1.24	NO	34.36	1.000	6.73e3	7.54e4	8.84	-11.6	0.892	bb
4	200526D2_5	50.0	1.26	NO	34.36	1.000	3.36e4	7.47e4	44.6	-10.7	0.900	bb
5	200526D2_6	200	1.26	NO	34.36	1.000	1.67e5	8.10e4	204	2.2	1.03	bb
6	200526D2_7	1500	1.24	NO	34.37	1.000	1.39e6	7.61e4	1810	20.6	1.22	bb

Compound name: 1,2,3,4,6,7,8-HpCDD Response Factor: 0.996525 RRF SD: 0.136501, Relative SD: 13.6977 Response type: Internal Std ( Ref 23 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Flesp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.15	NO	37.78	1.000	6.60e2	5.48e4	1.21	-3.3	0.963	bb
2	200526D2_3	2.50	0.96	NO	37.79	1.000	1.56e3	5.77e4	2.71	8.6	1.08	bb
3	200526D2_4	10.0	1.16	NO	37.79	1.000	5.03e3	5.98e4	8.44	-15.6	0.841	bb
4	200526D2_5	50.0	1.03	NO	37.79	1.000	2.77e4	6.34e4	43.9	-12.2	0.875	bd
5	200526D2_6	200	1.01	NO	37.79	1.000	1.37e5	6.79e4	202	1.1	1.01	bb
6	200526D2_7	1500	1.03	NO	37.80	1.000	1.16e6	6.37e4	1820	21.4	1.21	bb

Compound name: OCDD Response Factor: 1.01327 RRF SD: 0.124347, Relative SD: 12.2718 Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

14.1	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	2.50	0.88	NO	41.07	1.000	1.13e3	1.01e5	2.21	-11.8	0.894	MM
2	200526D2_3	5.00	0.83	NO	41.09	1.000	2.77e3	1.05e5	5.22	4.3	1.06	bd
3	200526D2_4	20.0	0.87	NO	41.09	1.000	9.83e3	1.09e5	17.7	-11.4	0.897	bd
4	200526D2_5	100	0.89	NO	41.09	1.000	5.26e4	1.13e5	92.2	-7.8	0.934	bd
5	200526D2_6	400	0.87	NO	41.10	1.001	2.65e5	1.20e5	434	8.6	1.10	bd
6	200526D2_7	3000	0.89	NO	41.12	1.000	2.27e6	1.27e5	3540	18.2	1.20	bb

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Compound name: 2,3,7,8-TCDF Response Factor: 0.833401 RRF SD: 0.120463, Relative SD: 14.4544 Response type: Internal Std ( Ref 25 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

13410	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	0.250	0.88	NO	25.39	1.001	3.10e2	1.74e5	0.214	-14.3	0.714	bb
2	200526D2_3	0.500	0.67	NO	25.39	1.000	7.87e2	1.69e5	0.558	11.6	0.930	bb
3	200526D2_4	2.00	0.69	NO	25.42	1.001	2.82e3	1.83e5	1.85	-7.3	0.772	bb
4	200526D2_5	10.0	0.75	NO	25.41	1.001	1.34e4	1.83e5	8.77	-12.3	0.731	bb
5	200526D2_6	40.0	0.75	NO	25.42	1.001	6.45e4	1.93e5	40.0	0.0	0.833	bb
6	200526D2_7	300	0.77	NO	25.42	1.001	5.10e5	1.67e5	367	22.4	1.02	bb

Compound name: 1,2,3,7,8-PeCDF Response Factor: 0.964878 RRF SD: 0.13273, Relative SD: 13.7562 Response type: Internal Std ( Ref 26 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.49	NO	29.44	1.000	1.40e3	1.35e5	1.07	-14.1	0.829	bb
2	200526D2_3	2.50	1.57	NO	29.46	1.001	3.25e3	1.31e5	2.58	3.3	0.997	bb
3	200526D2_4	10.0	1.58	NO	29.46	1.001	1.19e4	1.42e5	8.69	-13.1	0.838	bd
4	200526D2_5	50.0	1.57	NO	29.46	1.001	6.36e4	1.39e5	47.4	-5.2	0.915	bb
5	200526D2_6	200	1.59	NO	29.46	1.000	3.04e5	1.47e5	214	7.0	1.03	bb
6	200526D2_7	1500	1.58	NO	29.48	1.001	2.35e6	1.33e5	1830	22.1	1.18	bb

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

Response Factor: 1.00958 RRF SD: 0.125614, Relative SD: 12.4421 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	200526D2_2	1.25	1.77	NO	30.33	1.000	1.52e3	1.28e5	1.17	-6.2	0.947	MM
2	200526D2_3	2.50	1.76	NO	30.35	1.001	3.23e3	1.24e5	2.58	3.3	1.04	bb

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

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State Law or	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200526D2_4	10.0	1.67	NO	30.35	1.001	1.19e4	1.40e5	8.42	-15.8	0.850	bb
4	200526D2_5	50.0	1.58	NO	30.35	1.001	6.33e4	1.33e5	47.2	-5.5	0.954	bb
5	200526D2_6	200	1.59	NO	30.35	1.001	3.00e5	1.44e5	207	3.3	1.04	bb
6	200526D2_7	1500	1.57	NO	30.35	1.000	2.35e6	1.29e5	1810	20.9	1.22	bb

Compound name: 1,2,3,4,7,8-HxCDF Response Factor: 1.09486 RRF SD: 0.132448, Relative SD: 12.0973 Response type: Internal Std ( Ref 28 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

See.	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.40	NO	33.04	1.000	1.15e3	9.20e4	1.14	-8.7	1.00	bd
2	200526D2_3	2.50	1.30	NO	33.05	1.000	2.67e3	9.26e4	2.63	5.3	1.15	bd
3	200526D2_4	10.0	1.20	NO	33.05	1.000	9.98e3	1.02e5	8.93	-10.7	0.977	bd
4	200526D2_5	50.0	1.27	NO	33.05	1.000	4.90e4	1.00e5	44.7	-10.5	0.980	bd
5	200526D2_6	200	1.26	NO	33.05	1.000	2.51e5	1.09e5	211	5.3	1.15	dd
6	200526D2_7	1500	1.25	NO	33.06	1.000	1.98e6	1.01e5	1790	19.4	1.31	dd

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

Response Factor: 1.06552 RRF SD: 0.142006, Relative SD: 13.3275 Response type: Internal Std ( Ref 29 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.13	NO	33.17	1.000	1.12e3	9.80e4	1.07	-14.3	0.913	db
2	200526D2_3	2.50	1.24	NO	33.18	1.000	2.72e3	9.78e4	2.61	4.4	1.11	db
3	200526D2_4	10.0	1.28	NO	33.18	1.001	1.01 <b>e</b> 4	1.06e5	8.96	-10.4	0.954	db
4	200526D2_5	50.0	1.24	NO	33.18	1.001	5.13e4	1.04e5	46.1	-7.8	0.982	db
5	200526D2_6	200	1.26	NO	33.18	1.000	2.59e5	1.14e5	214	7.0	1.14	db
6	200526D2_7	1500	1.25	NO	33.19	1.001	2.01e6	1.04e5	1820	21.1	1.29	db

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Compound name: 2,3,4,6,7,8-HxCDF Response Factor: 1.15441 RRF SD: 0.159568, Relative SD: 13.8224 Response type: Internal Std ( Ref 30 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1 F 8 1	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.33	NO	33.77	1.001	1.11e3	8.65e4	1.12	-10.8	1.03	bb
2	200526D2_3	2.50	1.26	NO	33.79	1.001	2.72e3	8.89e4	2.65	6.0	1.22	bb
3	200526D2_4	10.0	1.23	NO	33.77	1.000	9.76e3	9.72e4	8.69	-13.1	1.00	bb
4	200526D2_5	50.0	1.25	NO	33.79	1.001	5.01e4	9.79e4	44.4	-11.3	1.02	bb
5	200526D2_6	200	1.26	NO	33.77	1.000	2.53e5	1.01e5	217	8.3	1.25	bb
6	200526D2_7	1500	1.25	NO	33.79	1.000	2.03e6	9.68e4	1810	20.9	1.40	bb

Compound name: 1,2,3,7,8,9-HxCDF Response Factor: 1.11431 RRF SD: 0.13751, Relative SD: 12.3403 Response type: Internal Std ( Ref 31 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

100 m	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.17	NO	34.73	1.000	9.51e2	7.27e4	1.17	-6.1	1.05	bb
2	200526D2_3	2.50	1.32	NO	34.74	1.000	2.35e3	7.77e4	2.72	8.7	1.21	bb
3	200526D2_4	10.0	1.26	NO	34.74	1.001	8.16e3	8.28e4	8.84	-11.6	0.985	bb
4	200526D2_5	50.0	1.27	NO	34.74	1.000	4.08e4	8.50e4	43.0	-14.0	0.958	bb
5	200526D2_6	200	1.30	NO	34.74	1.000	2.06e5	8.72e4	213	6.3	1.18	bb
6	200526D2_7	1500	1.26	NO	34.75	1.001	1.69e6	8.66e4	1750	16.7	1.30	bb

Compound name: 1,2,3,4,6,7,8-HpCDF Response Factor: 1.15744 RRF SD: 0.161839, Relative SD: 13.9825 Response type: Internal Std ( Ref 32 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

100	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	1.25	1.02	NO	36.59	1.000	8.87e2	6.85e4	1.12	-10.5	1.04	bb
2	200526D2_3	2.50	1.00	NO	36.61	1.001	2.17e3	6.95e4	2.70	8.2	1.25	bb

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

A STREET	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200526D2_4	10.0	1.03	NO	36.59	1.000	7.62e3	7.52e4	8.76	-12.4	1.01	bb
4	200526D2_5	50.0	1.03	NO	36.61	1.001	3.96e4	7.76e4	44.2	-11.7	1.02	bb
5	200526D2_6	200	1.04	NO	36.61	1.000	1.97e5	8.15e4	209	4.3	1.21	bb
6	200526D2_7	1500	1.02	NO	36.62	1.001	1.65e6	7.78e4	1830	22.2	1.41	bb

Ccmpound name: 1,2,3,4,7,8,9-HpCDF Response Factor: 1.34996 RRF SD: 0.206408, Relative SD: 15.2899 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	200526D2_2	1.25	0.99	NO	38.34	1.001	6.79e2	4.95e4	1.02	-18.7	1.10	bb
2	200526D2_3	2.50	1.07	NO	38.34	1.000	1.93e3	5.07e4	2.81	12.5	1.52	bb
3	200526D2_4	10.0	0.93	NO	38.34	1.000	6.48e3	5.43e4	8.84	-11.6	1.19	bb
4	200526D2_5	50.0	1.02	NO	38.34	1.001	3.49e4	5.65e4	45.8	-8.4	1.24	bb
5	200526D2_6	200	1.03	NO	38.34	1.000	1.72e5	6.06e4	211	5.4	1.42	bb
6	200526D2_7	1500	1.02	NO	38.34	1.000	1.48e6	6.04e4	1810	20.7	1.63	bb

#### Compound name: OCDF Response Factor: 0.94897

Response Factor: 0.94897 RRF SD: 0.11777, Relative SD: 12.4103 Response type: Internal Std ( Ref 34 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	2.50	0.88	NO	41.31	1.000	1.33e3	1.17e5	2.39	-4.4	0.907	bb
2	200526D2_3	5.00	0.90	NO	41.33	1.001	3.26e3	1.25e5	5.47	9.5	1.04	bb
3	200526D2_4	20.0	0.86	NO	41.32	1.001	1.08e4	1.37e5	16.6	-17.0	0.788	bb
4	200526D2_5	100	0.94	NO	41.31	1.000	5.99e4	1.39e5	90.9	-9.1	0.862	bđ
5	200526D2_6	400	0.90	NO	41.32	1.000	3.09e5	1.55e5	419	4.7	0.994	bb
6	200526D2_7	3000	0.89	NO	41.33	1.000	2.67e6	1.61e5	3490	16.3	1.10	bb

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Compound name: 13C-2,3,7,8-TCDD Response Factor: 1.25927 RRF SD: 0.0242426, Relative SD: 1.92513 Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

8-65	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.80	NO	26.14	1.022	1.15e5	9.16e4	99.4	-0.6	1.25	bb
2	200526D2_3	100	0.81	NO	26.16	1.021	1.13e5	8.84e4	101	1.2	1.27	bb
3	200526D2_4	100	0.79	NO	26.16	1.021	1.21e5	9.44e4	102	1.5	1.28	bb
4	200526D2_5	100	0.78	NO	26.16	1.021	1.15e5	9.24e4	98.8	-1.2	1.24	bb
5	200526D2_6	100	0.78	NO	26.17	1.022	1.22e5	9.49e4	102	2.1	1.29	bb
6	200526D2_7	100	0.78	NO	26.17	1.022	1.02e5	8.37e4	97.1	-2.9	1.22	bb

Compound name: 13C-1,2,3,7,8-PeCDD Response Factor: 0.921299 RRF SD: 0.0229711, Relative SD: 2.49334 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	200526D2_2	100	0.63	NO	30.61	1.196	8.06e4	9.16e4	95.5	-4.5	0.880	bb
2	200526D2_3	100	0.62	NO	30.61	1.195	8.18e4	8.84e4	100	0.4	0.925	bb
3	200526D2_4	100	0.61	NO	30.61	1.195	8.84e4	9.44e4	102	1.7	0.937	bb
4	200526D2_5	100	0.63	NO	30.61	1.195	8.41e4	9.24e4	98.8	-1.2	0.910	bb
5	200526D2_6	100	0.62	NO	30.61	1.195	8.91e4	9.49e4	102	1.8	0.938	bb
6	200526D2_7	100	0.62	NO	30.63	1.196	7.85e4	8.37e4	102	1.8	0.938	bb

#### Compound name: 13C-1,2,3,4,7,8-HxCDD Response Factor: 0.707189 RRF SD: 0.0212274, Relative SD: 3.00166 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	200526D2_2	100	1.37	NO	33.93	1.014	6.23e4	8.64e4	102	1.9	0.721	bd
2	200526D2_3	100	1.35	NO	33.94	1.014	6.18e4	8.85e4	98.8	-1.2	0.699	bđ

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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	200526D2_4	100	1.30	NO	33.94	1.015	6.66e4	9.66e4	97.5	-2.5	0.689	bd
4	200526D2_5	100	1.33	NO	33.94	1.014	6.49e4	9.47e4	96.9	-3.1	0.685	bd
5	200526D2_6	100	1.27	NO	33.94	1.014	7.00e4	9.90e4	100	0.0	0.707	bd
6	200526D2_7	100	1.32	NO	33.95	1.014	6.66e4	8.98e4	105	4.9	0.742	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD Response Factor: 0.828565 RRF SD: 0.0188377, Relative SD: 2.27353 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

Constant.	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	1.30	NO	34.04	1.018	7.10e4	8.64e4	99.2	-0.8	0.822	db
2	200526D2_3	100	1.29	NO	34.05	1.018	7.22e4	8.85e4	98.4	-1.6	0.816	db
3	200526D2_4	100 .	1.32	NO	34.04	1.018	7.92e4	9.66e4	98.9	-1.1	0.820	db
4	200526D2_5	100	1.35	NO	34.04	1.017	7.68e4	9.47e4	97.9	-2.1	0.812	db
5	200526D2_6	100	1.35	NO	34.05	1.018	8.35e4	9.90e4	102	1.8	0.843	db
6	200526D2_7	100	1.33	NO	34.06	1.018	7.72e4	8.98e4	104	3.8	0.860	db

#### Compound name: 13C-1,2,3,7,8,9-HxCDD Response Factor: 0.807923 RRF SD: 0.0238515, Relative SD: 2.95219

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	200526D2_2	100	1.27	NO	34.33	1.027	6.94e4	8.64e4	99.5	-0.5	0.804	bb
2	200526D2_3	100	1.30	NO	34.34	1.027	7.14e4	8.85e4	99.8	-0.2	0.806	bb
3	200526D2_4	100	1.32	NO	34.34	1.027	7.54e4	9.66e4	96.6	-3.4	0.781	bb
4	200526D2_5	100	1.30	NO	34.34	1.027	7.47e4	9.47e4	97.7	-2.3	0.790	bd
5	200526D2_6	100	1.33	NO	34.34	1.027	8.10e4	9.90e4	101	1.4	0.819	bd
6	200526D2_7	100	1.28	NO	34.36	1.027	7.61e4	8.98e4	105	5.0	0.848	bb

Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

Last Altered:Wednesday, May 27, 2020 11:53:39 Pacific Daylight TimePrinted:Wednesday, May 27, 2020 11:54:01 Pacific Daylight Time

Compound name: 13C-1,2,3,4,6,7,8-HpCDD Response Factor: 0.661788 RRF SD: 0.0338299, Relative SD: 5.11189 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	200526D2_2	100	1.03	NO	37.78	1.130	5.48e4	8.64e4	95.8	-4.2	0.634	bb
2	200526D2_3	100	1.07	NO	37.79	1.130	5.77e4	8.85e4	98.5	-1.5	0.652	bd
3	200526D2_4	100	1.09	NO	37.78	1.130	5.98e4	9.66e4	93.5	-6.5	0.619	bd
4	200526D2_5	100	1.05	NO	37.78	1.129	6.34e4	9.47e4	101	1.2	0.669	bd
5	200526D2_6	100	1.08	NO	37.78	1.129	6.79e4	9.90e4	104	3.7	0.687	bd
6	200526D2_7	100	1.02	NO	37.79	1.129	6.37e4	8.98e4	107	7.3	0.710	bb

Compound name: 13C-OCDD Response Factor: 0.608407 RRF SD: 0.049423, Relative SD: 8.12335 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	200526D2_2	200	0.90	NO	41.07	1.228	1.01e5	8.64e4	192	-4.0	0.584	bd
2	200526D2_3	200	0.91	NO	41.08	1.228	1.05e5	8.85e4	194	-2.8	0.591	bd
3	200526D2_4	200	0.90	NO	41.08	1.228	1.09e5	9.66e4	186	-6.9	0.567	bb
4	200526D2_5	200	0.91	NO	41.08	1.228	1.13e5	9.47e4	196	-2.2	0.595	bb
5	200526D2_6	200	0.88	NO	41.08	1.228	1.20e5	9.90e4	200	-0.1	0.608	bb
6	200526D2_7	200	0.90	NO	41.10	1.228	1.27e5	8.98e4	232	15.9	0.705	bb

Compound name: 13C-2,3,7,8-TCDF Response Factor: 1.06769 RRF SD: 0.0327362, Relative SD: 3.06607 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.81	NO	25.38	0.992	1.74e5	1.63e5	99.9	-0.1	1.07	bb
2	200526D2_3	100	0.80	NO	25.39	0.992	1.69e5	1.56e5	102	1.7	1.09	bb

#### Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

Last Altered:	Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time
Printed:	Wednesday, May 27, 2020 11:54:01 Pacific Daylight Time

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

Same and	Name	Std. Conc	RA	ın/y	RT	RRT	Resp	IS Resp	Conc.	%Dey	RRF	X = dropped
3	200526D2_4	100	0.77	NO	25.39	0.991	1.83e5	1.74e5	98.6	-1.4	1.05	bb
4	200526D2_5	100	0.82	NO	25.39	0.992	1.83e5	1.66e5	103	3.3	1.10	bd
5	200526D2_6	100	0.79	NO	25.39	0.992	1.93e5	1.78e5	102	1.7	1.09	bb
6	200526D2_7	100	0.79	NO	25.39	0.992	1.67e5	1.65e5	94.7	-5.3	1.01	bb

#### Compound name: 13C-1,2,3,7,8-PeCDF Response Factor: 0.825913 RRF SD: 0.0132817, Relative SD: 1.60813 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

174	Name	Std. Conc	RA	n/y	TSI	IRRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	1.69	NO	29.44	1.150	1.35e5	1.63e5	101	0.5	0.830	bb
2	200526D2_3	100	1.61	NO	29.44	1.150	1.31e5	1.56e5	101	1.4	0.837	bb
3	200526D2_4	100	1.66	NO	29.44	1.149	1.42e5	1.74e5	98.7	-1.3	0.815	bb
4	200526D2_5	100	1.67	NO	29.44	1.150	1.39e5	1.66e5	102	1.7	0.840	bb
5	200526D2_6	100	1.78	NO	29.46	1.151	1.47e5	1.78e5	100	0.2	0.828	MM
6	200526D2_7	100	1.61	NO	29.46	1.151	1.33e5	1.65e5	97.5	-2.5	0.805	bb

#### Compound name: 13C-2,3,4,7,8-PeCDF Response Factor: 0.795997 RRF SD: 0.0108298, Relative SD: 1.36054 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	200526D2_2	100	1.71	NO	30.33	1.185	1.28e5	1.63e5	98.9	-1.1	0.787	bb
2	200526D2_3	100	1.61	NO	30.33	1.184	1.24e5	1.56e5	99.8	-0.2	0.795	bb
3	200526D2_4	100	1.68	NO	30.33	1.184	1.40e5	1.74e5	101	1.1	0.804	bb
4	200526D2_5	100	1.69	NO	30.33	1.184	1.33e5	1.66e5	101	0.6	0.801	bb
5	200526D2_6	100	1.64	NO	30.33	1.184	1.44e5	1.78e5	102	1.6	0.809	bb
6	200526D2_7	100	1.68	NO	30.35	1.185	1.29e5	1.65e5	98.0	-2.0	0.780	bb

Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld
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#### Compound name: 13C-1,2,3,4,7,8-HxCDF Response Factor: 1.07518 RRF SD: 0.0306015, Relative SD: 2.84619 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	200526D2_2	100	0.50	NO	33.03	0.988	9.20e4	8.64e4	99.1	-0.9	1.07	bđ
2	200526D2_3	100	0.49	NO	33.04	0.988	9.26e4	8.85e4	97.3	-2.7	1.05	bd
3	200526D2_4	100	0.50	NO	33.04	0.988	1.02e5	9.66e4	98.2	-1.8	1.06	bd
4	200526D2_5	100	0.48	NO	33.04	0.988	1.00e5	9.47e4	98.3	-1.7	1.06	bd
5	200526D2_6	100	0.50	NO	33.04	0.988	1.09e5	9.90e4	102	2.5	1.10	bd
6	200526D2_7	100	0.51	NO	33.05	0.988	1.01e5	8.98 <b>e</b> 4	105	4.5	1.12	bd

#### Compound name: 13C-1,2,3,6,7,8-HxCDF Response Factor: 1.12454

RRF SD: 0.0257818, Relative SD: 2.29265 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

111.24	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.50	NO	33.16	0.991	9.80e4	8.64e4	101	0.9	1.14	db
2	200526D2_3	100	0.49	NO	33.17	0.991	9.78e4	8.85e4	98.2	-1.8	1.10	db
3	200526D2_4	100	0.49	NO	33.16	0.991	1.06e5	9.66e4	97.6	-2.4	1.10	db
4	200526D2_5	100	0.50	NO	33.16	0.991	1.04e5	9.47e4	98.1	-1.9	1.10	db
5	200526D2_6	100	0.50	NO	33.17	0.991	1.14e5	9.90e4	102	2.2	1.15	db
6	200526D2_7	100	0.50	NO	33.17	0.991	1.04e5	8.98e4	103	2.9	1.16	db

.

#### Compound name: 13C-2,3,4,6,7,8-HxCDF Response Factor: 1.02476

Response Factor: 1.02476 RRF SD: 0.0294028, Relative SD: 2.86925 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

Tomas in	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.50	NO	33.75	1.009	8.65e4	8.64e4	97.7	-2.3	1.00	bb
2	200526D2_3	100	0.50	NO	33.76	1.009	8.89e4	8.85e4	98.0	-2.0	1.00	bb

#### Quantify Compound Summary Report MassLynx 4.1 Vista Analytical Laboratory

#### Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

Last Altered: Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time Printed: Wednesday, May 27, 2020 11:54:01 Pacific Daylight Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200526D2_4	100	0.50	NO	33.76	1.010	9.72e4	9.66e4	98.2	-1.8	1.01	bb
4	200526D2_5	100	0.51	NO	33.76	1.009	9.79e4	9.47e4	101	0.9	1.03	bb
5	200526D2_6	100	0.51	NO	33.76	1.009	1.01e5	9.90e4	99.9	-0.1	1.02	bb
6	200526D2_7	100	0.49	NO	33.77	1.009	9.68e4	8.98e4	105	5.3	1.08	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF Response Factor: 0.886846 RRF SD: 0.0429436, Relative SD: 4.84229 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1	Name	Std. Conc	RA	n/y	RT	RRT	Resp)	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.50	NO	34.72	1.038	7.27e4	8.64e4	95.0	-5.0	0.842	bđ
2	200526D2_3	100	0.48	NO	34.73	1.038	7.77e4	8.85e4	98.9	-1.1	0.877	bb
3	200526D2_4	100	0.50	NO	34.72	1.038	8.28e4	9.66e4	96.7	-3.3	0.857	bb
4	200526D2_5	100	0.51	NO	34.73	1.038	8.50e4	9.47e4	101	1.3	0.898	bb
5	200526D2_6	100	0.49	NO	34.73	1.038	8.72e4	9.90e4	99.3	-0.7	0.881	bb
6	200526D2_7	100	0.49	NO	34.73	1.038	8.66e4	8.98e4	109	8.8	0.965	bb

#### Compound name: 13C-1,2,3,4,6,7,8-HpCDF Response Factor: 0.810858

RRF SD: 0.0328072, Relative SD: 4.04598 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

120 2	Narne	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = drop ped
1	200526D2_2	100	0.46	NO	36.58	1.094	6.85e4	8.64e4	97.8	-2.2	0.793	bd
2	200526D2_3	100	0.43	NO	36.58	1.093	6.95e4	8.85e4	96.8	-3.2	0.785	bb
3	200526D2_4	100	0.42	NO	36.58	1.094	7.52e4	9.66e4	95.9	-4.1	0.778	bb
4	200526D2_5	100	0.43	NO	36.58	1.093	7.76e4	9.47e4	101	1.1	0.819	bb
5	200526D2_6	100	0.44	NO	36.59	1.094	8.15e4	9.90e4	102	1.5	0.823	bb
6	200526D2_7	100	0.44	NO	36.59	1.093	7.78e4	8.98e4	107	6.8	0.866	bb

#### Quantify Compound Summary Report MassLynx 4.1 Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF Response Factor: 0.598269 RRF SD: 0.0407134, Relative SD: 6.8052 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

The Real Property lies	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.44	NO	38.32	1.146	4.95e4	8.64e4	95.8	-4.2	0.573	bb
2	200526D2_3	100	0.41	NO	38.33	1.146	5.07e4	8.85e4	95.8	-4.2	0.573	bb
3	200526D2_4	100	0.44	NO	38.33	1.146	5.43 <b>e</b> 4	9.66 <b>e</b> 4	94.0	-6.0	0.562	bb
4	200526D2_5	100	0.43	NO	38.32	1.145	5.65e4	9.47e4	99.7	-0.3	0.596	bb
5	200526D2_6	100	0.41	NO	38.33	1.146	6.06e4	9.90e4	102	2.3	0.612	bb
6	200526D2_7	100	0.44	NO	38.34	1.146	6.04e4	8.98e4	112	12.4	0.673	bb

Compound name: 13C-OCDF Response Factor: 0.752175 RRF SD: 0.0804491, Relative SD: 10.6955 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

The local division in which the	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	200	0.92	NO	41.30	1.235	1.17e5	8.64e4	180	-10.0	0.677	bb
2	200526D2_3	200	0.91	NO	41.31	1.235	1.25e5	8.85e4	188	-5.9	0.708	bd
3	200526D2_4	200	0.88	NO	41.30	1.235	1.37e5	9.66e4	189	-5.6	0.710	bb
4	200526D2_5	200	0.89	NO	41.31	1.235	1.39e5	9.47e4	195	-2.4	0.734	bb
5	200526D2_6	200	0.88	NO	41.31	1.235	1.55e5	9.90e4	209	4.3	0.784	bb
6	200526D2_7	200	0.88	NO	41.32	1.235	1.61e5	8.98e4	239	19.6	0.899	bb

#### Compound name: 37CI-2,3,7,8-TCDD Response Factor: 1.24297 RRF SD: 0.0962716, Relative SD: 7.74527 Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	0.250			26.16	1.022	2.84e2	9.16e4	0.249	-0.3	1.24	bb
2	200526D2_3	0.500			26.17	1.022	5.32e2	8.84e4	0.484	-3.2	1.20	bb

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### Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

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### Compound name: 37CI-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200526D2_4	2.00			26.19	1.022	2.19e3	9.44e4	1.87	-6.7	1.16	bb
4	200526D2_5	10.0			26.19	1.023	1.06e4	9.24e4	9.23	-7.7	1.15	bb
5	200526D2_6	40.0			26.19	1.023	4.98e4	9.49e4	42.2	5.5	1.31	bd
6	200526D2_7	200			26.19	1.023	2.34e5	8.37e4	225	12.5	1.40	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

The second	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.78	NO	25.59	1.000	9.16e4	9.16e4	100	0.0	1.00	bb
2	200526D2_3	100	0.80	NO	25.61	1.000	8.84e4	8.84e4	100	0.0	1.00	bb
3	200526D2_4	100	0.82	NO	25.62	1.000	9.44e4	9.44e4	100	0.0	1.00	bb
4	200526D2_5	100	0.78	NO	25.61	1.000	9.24e4	9.24e4	100	0.0	1.00	bb
5	200526D2_6	100	0.79	NO	25.61	1.000	9.49e4	9.49e4	100	0.0	1.00	bb
6	200526D2_7	100	0.81	NO	25.61	1.000	8.37e4	8.37e4	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

and the second	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.80	NO	24.20	1.000	1.63e5	1.63e5	100	0.0	1.00	bd
2	200526D2_3	100	0.81	NO	24.20	1.000	1.56e5	1.56e5	100	0.0	1.00	bb
3	200526D2_4	100	0.77	NO	24.22	1.000	1.74e5	1.74e5	100	0.0	1.00	bb
4	200526D2_5	100	0.81	NO	24.22	1.000	1.66e5	1.66e5	100	0.0	1.00	bb
5	200526D2_6	100	0.78	NO	24.22	1.000	1.78e5	1.78e5	100	0.0	1.00	bb
6	200526D2_7	100	0.79	NO	24.22	1.000	1.65e5	1.65e5	100	0.0	1.00	bb

U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld Dataset:

Last Altered:	Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time
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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

Sec. 1	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200526D2_2	100	0.50	NO	33.45	1.000	8.64e4	8.64e4	100	0.0	1.00	bb
2	200526D2_3	100	0.50	NO	33.46	1.000	8.85e4	8.85e4	100	0.0	1.00	bb
3	200526D2_4	100	0.50	NO	33.44	1.000	9.66e4	9.66e4	100	0.0	1.00	bb
4	200526D2_5	100	0.50	NO	33.46	1.000	9.47e4	9.47e4	100	0.0	1.00	bb
5	200526D2_6	100	0.50	NO	33.46	1.000	9.90e4	9.90e4	100	0.0	1.00	bb
6	200526D2_7	100	0.50	NO	33.47	1.000	8.98e4	8.98e4	100	0.0	1.00	bb

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Quantify Sample Summary Report Vista Analytical Laboratory		MassLynx 4.1	
Dataset:	U:\VG7.PRO\Results\200	0526D2\200526D2_CRV.qld	
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# Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

	# 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	2.84e2	0.87	NO	0.986	1.000	26.174	26.16	1.001	1.001	0.25082	100	0.0587	0.251
2	2 1,2,3,7,8-PeCDD	8.84e2	0.63	NO	0.964	1.000	30.630	30.61	1.001	1.000	1.1376	91.0	0.0494	1.14
3	3 1,2,3,4,7,8-HxCDD	7.92e2	1.27	NO	1.16	1.000	33.938	33.95	1.000	1.001	1.0939	87.5	0.126	1.09
4	4 1,2,3,6,7,8-HxCDD	8.39e2	1.12	NO	1.01	1.000	34.038	34.05	1.000	1.000	1.1739	93.9	0.129	1.17
5	5 1,2,3,7,8,9-HxCDD	7.73e2	1.26	NO	1.01	1.000	34.368	34.37	1.001	1.001	1.1033	88.3	0.130	1.10
6	6 1,2,3,4,6,7,8-HpCDD	6.60e2	1.15	NO	0.997	1.000	37.791	37.78	1.000	1.000	1.2084	96.7	0.151	1.21
7	7 OCDD	1.1 <b>3e</b> 3	0.88	NO	1.01	1.000	41.071	41.07	1.000	1.000	2.2052	88.2	0.279	2.21
8	8 2,3,7,8-TCDF	3.10e2	0.88	NO	0.833	1.000	25.403	25.39	1.001	1.001	0.21415	85.7	0.0357	0.214
9	9 1,2,3,7,8-PeCDF	1.40e3	1.49	NO	0.965	1.000	29.462	29.44	1.001	1.000	1.0737	85.9	0.0327	1.07
10	10 2,3,4,7,8-PeCDF	1.52e3	1.77	NO	1.01	1.000	30.357	30.33	1.001	1.000	1.1730	93.8	0.0340	1.17
11	11 1,2,3,4,7,8-HxCDF	1.15e3	1.40	NO	1.09	1.000	33.028	33.04	1.000	1.000	1.1416	91.3	0.0944	1.14
12	12 1,2,3,6,7,8-HxCDF	1.12e3	1.13	NO	1.07	1.000	33.170	33.17	1.000	1.000	1.0716	85.7	0.0977	1.07
13	13 2,3,4,6,7,8-HxCDF	1.11e3	1.33	NO	1.15	1.000	33.786	33.77	1.001	1.001	1.1153	89.2	0.104	1.12
14	14 1,2,3,7,8,9-HxCDF	9.51e2	1.17	NO	1.11	1.000	34.718	34.73	1.000	1.000	1.1738	93.9	0.140	1.17
15	15 1,2,3,4,6,7,8-HpCDF	8.87e2	1.02	NO	1.16	1.000	36.620	36.59	1.001	1.000	1.1182	89.5	0.0807	1.12
16	16 1,2,3,4,7,8,9-HpCDF	6.79e2	0.99	NO	1.35	1.000	38.317	38.34	1.000	1.001	1.0165	81.3	0.0850	1.02
17	17 OCDF	1.33e3	0.88	NO	0.949	1.000	41.302	41.31	1.000	1.000	2.3903	95.6	0.0950	2.39
18	18 13C-2,3,7,8-TCDD	1.15e5	0.80	NO	1.26	1.000	26.257	26.14	1.026	1.022	99.358	99.4	0.221	
19	19 13C-1,2,3,7,8-PeCDD	8.06e4	0.63	NO	0.921	1.000	30.761	30.61	1.202	1.196	95.518	95.5	0.333	
20	20 13C-1,2,3,4,7,8-HxCDD	6.23e4	1.37	NO	0.707	1.000	33.913	33.93	1.014	1.014	101.95	102	0.450	
21	21 13C-1,2,3,6,7,8-HxCDD	7.10e4	1.30	NO	0.829	1.000	34.024	34.04	1.017	1.018	99.157	99.2	0.384	ļ
22	22 13C-1,2,3,7,8,9-HxCDD	6.94e4	1.27	NO	0.808	1.000	34.295	34.33	1.025	1.027	99.532	99.5	0.394	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.48e4	1.03	NO	0.662	1.000	37.760	37.78	1.129	1.130	95.829	95.8	0.569	
24	24 13C-OCDD	1.01e5	0.90	NO	0.608	1.000	40.783	41.07	1.219	1.228	192.09	96.0	0.500	(
25	25 13C-2,3,7,8-TCDF	1.74e5	0.81	NO	1.07	1.000	25.336	25.38	0.990	0.992	99.942	99.9	0.244	1
26	26 13C-1,2,3,7,8-PeCDF	1.35e5	1.69	NO	0.826	1.000	29.576	29.44	1.156	1.150	100.54	101	0.377	
27	27 13C-2,3,4,7,8-PeCDF	1.28e5	1.71	NO	0.796	1.000	30.480	30.33	1.191	1.185	98.865	98.9	0.391	
28	28 13C-1,2,3,4,7,8-HxCDF	9.20e4	0.50	NO	1.08	1.000	33.044	33.03	0.988	0.988	99.129	99.1	0.373	
29	29 13C-1,2,3,6,7,8-HxCDF	9.80e4	0.50	NO	1.12	1.000	33.178	33.16	0.992	0.991	100.94	101	0.357	
30	30 13C-2,3,4,6,7,8-HxCDF	8.65e4	0.50	NO	1.02	1.000	33.750	33.75	1.009	1.009	97.733	97.7	0.391	
31	31 13C-1,2,3,7,8,9-HxCDF	7.27e4	0.50	NO	0.887	1.000	34.649	34.72	1.036	1.038	94.955	95.0	0.452	

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	# 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	6.85e4	0.46	NO	0.811	1.000	36.355	36.58	1.087	1.094	97.849	97.8	0.526	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.95e4	0.44	NO	0.598	1.000	38.362	38.32	1.147	1.146	95.783	95.8	0.714	
34	34 13C-OCDF	1.17e5	0.92	NO	0.752	1.000	40.937	41.30	1.224	1.235	180.07	90.0	0.391	-
35	35 37CI-2,3,7,8-TCDD	2.84e2			1.24	1.000	26.254	26.16	1.026	1.022	0.24914	99.7	0.0830	
36	36 13C-1,2,3,4-TCDD	9.16e4	0.78	NO	1.00	1.000	25.480	25.59	1.000	1.000	100.00	100	0.279	
37	37 13C-1,2,3,4-TCDF	1.63e5	0.80	NO	1.00	1.000	24.020	24.20	1.000	1.000	100.00	100	0.261	
38	38 13C-1,2,3,4,6,9-HxCDF	8.64e4	0.50	NO	1.00	1.000	33.530	33.45	1.000	1.000	100.00	100	0.401	

### Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

Last Altered:	Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time
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1000	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	6.01e2	0.86	NO	0.986	1.000	26.189	26.19	1.001	1.001	0.54033	108	0.0499	0.540
2	2 1,2,3,7,8-PeCDD	2.07e3	0.67	NO	0.964	1.000	30.630	30.63	1.001	1.001	2.6312	105	0.0478	2.63
3	3 1,2,3,4,7,8-HxCDD	1.90e3	1.28	NO	1.16	1.000	33.949	33.94	1.000	1.000	2.6361	105	0.161	2.64
4	4 1,2,3,6,7,8-HxCDD	1.99e3	1.30	NO	1.01	1.000	34.049	34.06	1.000	1.000	2.7300	109	0.152	2.73
5	5 1,2,3,7,8,9-HxCDD	2.00e3	1.15	NO	1.01	1.000	34.379	34.34	1.001	1.000	2.7806	111	0.168	2.78
6	6 1,2,3,4,6,7,8-HpCDD	1.56e3	0.96	NO	0.997	1.000	37.802	37.79	1.000	1.000	2.7143	109	0.130	2.71
7	7 OCDD	2.77e3	0.83	NO	1.01	1.000	41.082	41.09	1.000	1.000	5.2154	104	0.0861	5.22
8	8 2,3,7,8-TCDF	7.87e2	0.67	NO	0.833	1.000	25.418	25.39	1.001	1.000	0.55788	112	0.0358	0.558
9	9 1,2,3,7,8-PeCDF	3.25e3	1.57	NO	0.965	1.000	29.462	29.46	1.001	1.001	2.5832	103	0.0507	2.58
10	10 2,3,4,7,8-PeCDF	3.23e3	1.76	NO	1.01	1.000	30.357	30.35	1.001	1.001	2.5827	103	0.0469	2.58
11.	11 1,2,3,4,7,8-HxCDF	2.67e3	1.30	NO	1.09	1.000	33.039	33.05	1.000	1.000	2.6313	105	0.0562	2.63
12	12 1,2,3,6,7,8-HxCDF	2.72e3	1.24	NO	1.07	1.000	33.181	33.18	1.000	1.000	2.6089	104	0.0564	2.61
13	13 2,3,4,6,7,8-HxCDF	2.72e3	1.26	NO	1.15	1.000	33.797	33.79	1.001	1.001	2.6499	106	0.0619	2.65
14	14 1,2,3,7,8,9-HxCDF	2.35e3	1.32	NO	1.11	1.000	34.729	34.74	1.000	1.000	2.7171	109	0.0781	2.72
15	15 1,2,3,4,6,7,8-HpCDF	2.17e3	1.00	NO	1.16	1.000	36.620	36.61	1.001	1.001	2.7041	108	0.0797	2.70
16	16 1,2,3,4,7,8,9-HpCDF	1.93e3	1.07	NO	1.35	1.000	38.328	38.34	1.000	1.000	2.8124	112	0.0773	2.81
17	17 OCDF	3.26e3	0.90	NO	0.949	1.000	41.313	41.33	1.000	1.001	5.4739	109	0.104	5.47
18	18 13C-2,3,7,8-TCDD	1.13e5	0.81	NO	1.26	1.000	26.273	26.16	1.026	1.021	101.17	101	0.201	
19	19 13C-1,2,3,7,8-PeCDD	8.18e4	0.62	NO	0.921	1.000	30.780	30.61	1.202	1.195	100.44	100	0.159	
20	20 13C-1,2,3,4,7,8-HxCDD	6.18e4	1.35	NO	0.707	1.000	33.924	33.94	1.014	1.014	98.790	98.8	0.352	1
21	21 13C-1,2,3,6,7,8-HxCDD	7.22e4	1.29	NO	0.829	1.000	34.035	34.05	1.017	1.018	98.440	98.4	0.300	ļ
22	22 13C-1,2,3,7,8,9-HxCDD	7.14e4	1.30	NO	0.808	1.000	34.306	34.34	1.025	1.027	99.788	99.8	0.308	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.77 <del>e</del> 4	1.07	NO	0.662	1.000	37.772	37.79	1.129	1.130	98.522	98.5	0.467	
24	24 13C-OCDD	1.05e5	0.91	NO	0.608	1.000	40.796	41.08	1.219	1.228	194.33	97.2	0.364	
25	25 13C-2,3,7,8-TCDF	1.69e5	0.80	NO	1.07	1.000	25.351	25.39	0.990	0.992	101.66	102	0.300	
26	26 13C-1,2,3,7,8-PeCDF	1.31e5	1.61	NO	0.826	1.000	29.594	29.44	1.156	1.150	101.38	101	0.360	ļ
27	27 13C-2,3,4,7,8-PeCDF	1.24e5	1.61	NO	0.796	1.000	30.498	30.33	1.191	1.184	99.821	99.8	0.374	
28	28 13C-1,2,3,4,7,8-HxCDF	9.26e4	0.49	NO	1.08	1.000	33.055	33.04	0.988	0.988	97.298	97.3	0.343	
29	29 13C-1,2,3,6,7,8-HxCDF	9.78e4	0.49	NO	1.12	1.000	33.188	33.17	0.992	0.991	98.242	98.2	0.328	
30	30 13C-2,3,4,6,7,8-HxCDF	8.89e4	0.50	NO	1.02	1.000	33.760	33.76	1.009	1.009	97.998	98.0	0.360	
31	31 13C-1,2,3,7,8,9-HxCDF	7.77e4	0.48	NO	0.887	1.000	34.660	34.73	1.036	1.038	98.922	98.9	0.416	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.95e4	0.43	NO	0.811	1.000	36.367	36.58	1.087	1.093	96.780	96.8	0.482	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.07e4	0.41	NO	0.598	1.000	38.374	38.33	1.147	1.146	95.807	95.8	0.654	
34	34 13C-OCDF	1.25e5	0.91	NO	0.752	1.000	40.950	41.31	1.224	1.235	188.25	94.1	0.382	

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### Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

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- AL	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37CI-2,3,7,8-TCDD	5.32e2			1.24	1.000	26.270	26.17	1.026	1.022	0.48391	96.8	0.0475	
36	36 13C-1,2,3,4-TCDD	8.84e4	0.80	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.253	
37	37 13C-1,2,3,4-TCDF	1.56e5	0.81	NO	1.00	1.000	24.020	24.20	1.000	1.000	100.00	100	0.320	
38	38 13C-1,2,3,4,6,9-HxCDF	8.85e4	0.50	NO	1.00	1.000	33.530	33.46	1.000	1.000	100.00	100	0.369	

# Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

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### Name: 200526D2\_4, Date: 26-May-2020, Time: 22:27:45, ID: ST200526D2-3 1613 CS2 20E0706, Description: 1613 CS2 20E0706

1000	# 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	1.98e3	0.78	NO	0.986	1.000	26.189	26.17	1.001	1.001	1.6636	83.2	0.0493	1.66
2	2 1,2,3,7,8-PeCDD	7.46e3	0.61	NO	0.964	1.000	30.630	30.63	1.001	1.001	8.7578	87.6	0.0659	8.76
3	3 1,2,3,4,7,8-HxCDD	6.57e3	1.21	NO	1.16	1.000	33.949	33.95	1.000	1.000	8.4812	84.8	0.118	8.48
4	4 1,2,3,6,7,8-HxCDD	6.99e3	1.22	NO	1.01	1.000	34.037	34.06	1.000	1.001	8.7639	87.6	0.122	8.76
5	5 1,2,3,7,8,9-HxCDD	6.73e3	1.24	NO	1.01	1.000	34.379	34.36	1.001	1.000	8.8445	88.4	0.132	8.84
6	6 1,2,3,4,6,7,8-HpCDD	5.03e3	1.16	NO	0.997	1.000	37.791	37.79	1.000	1.000	8.4399	84.4	0.225	8.44
7	7 OCDD	9.83e3	0.87	NO	1.01	1.000	41.082	41.09	1.000	1.000	17.713	88.6	0.127	17.7
8	8 2,3,7,8-TCDF	2.82e3	0.69	NO	0.833	1.000	25.418	25.42	1.001	1.001	1.8535	92.7	0.0300	1.85
9	9 1,2,3,7,8-PeCDF	1.19e4	1.58	NO	0.965	1.000	29.462	29.46	1.001	1.001	8.6873	86.9	0.0779	8.69
10	10 2,3,4,7,8-PeCDF	1.19e4	1.67	NO	1.01	1.000	30.357	30.35	1.001	1.001	8.4229	84.2	0.0676	8.42
11	11 1,2,3,4,7,8-HxCDF	9.98e3	1.20	NO	1.09	1.000	33.039	33.05	1.000	1.000	8.9279	89.3	0.0853	8.93
12	12 1,2,3,6,7,8-HxCDF	1.01e4	1.28	NO	1.07	1.000	33.170	33.18	1.000	1.001	8.9581	89.6	0.0836	8.96
13	13 2,3,4,6,7,8-HxCDF	9.76e3	1.23	NO	1.15	1.000	33.797	33.77	1.001	1.000	8.6911	86.9	0.0888	8.69
14	14 1,2,3,7,8,9-HxCDF	8.16e3	1.26	NO	1.11	1.000	34.718	34.74	1.000	1.001	8.8409	88.4	0.123	8.84
15	15 1,2,3,4,6,7,8-HpCDF	7.62e3	1.03	NO	1.16	1.000	36.620	36.59	1.001	1.000	8.7616	87.6	0.136	8.76
16	16 1,2,3,4,7,8,9-HpCDF	6.48e3	0.93	NO	1.35	1.000	38.328	38.34	1.000	1.000	8.8433	88.4	0.142	8.84
17	17 OCDF	1.08e4	0.86	NO	0.949	1.000	41.301	41.32	1.000	1.001	16.599	83.0	0.153	16.6
18	18 13C-2,3,7,8-TCDD	1.21e5	0.79	NO	1.26	1.000	26.288	26.16	1.026	1.021	101.54	102	0.218	
19	19 13C-1,2,3,7,8-PeCDD	8.84e4	0.61	NO	0.921	1.000	30.798	30.61	1.202	1.195	101.65	102	0.227	
20	20 13C-1,2,3,4,7,8-HxCDD	6.66e4	1.30	NO	0.707	1.000	33.913	33.94	1.014	1.015	97.491	97.5	0.335	
21	21 13C-1,2,3,6,7,8-HxCDD	7.92e4	1.32	NO	0.829	1.000	34.024	34.04	1.017	1.018	98.922	98.9	0.286	
22	22 13C-1,2,3,7,8,9-HxCDD	7.54e4	1.32	NO	0.808	1.000	34.295	34.34	1.025	1.027	96.615	96.6	0.293	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.98e4	1.09	NO	0.662	1.000	37.759	37.78	1.129	1.130	93.469	93.5	0.495	
24	24 13C-OCDD	1.09e5	0.90	NO	0.608	1.000	40.783	41.08	1.219	1.228	186.24	93.1	0.514	
25	25 13C-2,3,7,8-TCDF	1.83e5	0.77	NO	1.07	1.000	25.366	25.39	0.990	0.991	98.621	98.6	0.249	
26	26 13C-1,2,3,7,8-PeCDF	1.42e5	1.66	NO	0.826	1.000	29.612	29.44	1.156	1.149	98.731	98.7	0.323	
27	27 13C-2,3,4,7,8-PeCDF	1.40e5	1.68	NO	0.796	1.000	30.516	30.33	1.191	1.184	101.06	101	0.335	
28	28 13C-1,2,3,4,7,8-HxCDF	1.02e5	0.50	NO	1.08	1.000	33.044	33.04	0.988	0.988	98.239	98.2	0.344	
29	29 13C-1,2,3,6,7,8-HxCDF	1.06e5	0.49	NO	1.12	1.000	33.177	33.16	0.992	0.991	97.608	97.6	0.329	
30	30 13C-2,3,4,6,7,8-HxCDF	9.72e4	0.50	NO	1.02	1.000	33.749	33.76	1.009	1.010	98.205	98.2	0.361	
31	31 13C-1,2,3,7,8,9-HxCDF	8.28e4	0.50	NO	0.887	1.000	34.649	34.72	1.036	1.038	96.678	96.7	0.417	
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.52e4	0.42	NO	0.811	1.000	36.355	36.58	1.087	1.094	95.939	95.9	0.509	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.43e4	0.44	NO	0.598	1.000	38.361	38.33	1.147	1.146	93.961	94.0	0.690	
34	34 13C-OCDF	1.37e5	0.88	NO	0.752	1.000	40.937	41.30	1.224	1.235	188.78	94.4	0.403	

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The second	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37CI-2,3,7,8-TCDD	2.19e3			1.24	1.000	26.286	26.19	1.026	1.022	1.8667	93.3	0.0471	
36	36 13C-1,2,3,4-TCDD	9.44e4	0.82	NO	1.00	1.000	25.480	25.62	1.000	1.000	100.00	100	0.275	
37	37 13C-1,2,3,4-TCDF	1.74e5	0.77	NO	1.00	1.000	24.020	24.22	1.000	1.000	100.00	100	0.266	
38	38 13C-1,2,3,4,6,9-HxCDF	9.66e4	0.50	NO	1.00	1.000	33.530	33.44	1.000	1.000	100.00	100	0.370	

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11115	# 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	1.00e4	0.82	NO	0.986	1.000	26.189	26.19	1.001	1.001	8.8565	88.6	0.0892	8.86
2	2 1,2,3,7,8-PeCDD	3.66e4	0.62	NO	0.964	1.000	30.630	30.63	1.001	1.001	45.196	90.4	0.155	45.2
3	3 1,2,3,4,7,8-HxCDD	3.52e4	1.26	NO	1.16	1.000	33.949	33.95	1.000	1.000	46.642	93.3	0.250	46.6
4	4 1,2,3,6,7,8-HxCDD	3.48e4	1.29	NO	1.01	1.000	34.038	34.06	1.000	1.001	44.916	89.8	0.257	44.9
5	5 1,2,3,7,8,9-HxCDD	3.36e4	1.26	NO	1.01	1.000	34.379	34.36	1.001	1.000	44.634	89.3	0.279	44.6
6	6 1,2,3,4,6,7,8-HpCDD	2.77e4	1.03	NO	0.997	1.000	37.791	37.79	1.000	1.000	43.896	87.8	0.312	43.9
7.	7 OCDD	5.26e4	0.89	NO	1.01	1.000	41.082	41.09	1.000	1.000	92.170	92.2	0.199	92.2
8	8 2,3,7,8-TCDF	1.34 <b>e</b> 4	0.75	NO	0.833	1.000	25.418	25.41	1.001	1.001	8.7720	87.7	0.0756	8.77
9	9 1,2,3,7,8-PeCDF	6.36e4	1.57	NO	0.965	1.000	29.462	29.46	1.001	1.001	47.409	94.8	0.106	47.4
10	10 2,3,4,7,8-PeCDF	6.33e4	1.58	NO	1.01	1.000	30.357	30.35	1.001	1.001	47.245	94.5	0.0986	47.2
11	11 1,2,3,4,7,8-HxCDF	4.90e4	1.27	NO	1.09	1.000	33.03 <b>9</b>	33.05	1.000	1.000	44.739	89.5	0.206	44.7
12	12 1,2,3,6,7,8-HxCDF	5.13e4	1.24	NO	1.07	1.000	33.170	33.18	1.000	1.001	46.102	92.2	0.191	46.1
13	13 2,3,4,6,7,8-HxCDF	5.01e4	1.25	NO	1.15	1.000	33.797	33.79	1.001	1.001	44.354	88.7	0.198	44.4
14	14 1,2,3,7,8,9-HxCDF	4.08e4	1.27	NO	1.11	1.000	34.729	34.74	1.000	1.000	43.006	86.0	0.277	43.0
15	15 1,2,3,4,6,7,8-HpCDF	3.96e4	1.03	NO	1.16	1.000	36.620	36.61	1.001	1.001	44.155	88.3	0.249	44.2
16	16 1,2,3,4,7,8,9-HpCDF	3.49e4	1.02	NO	1.35	1.000	38.317	38.34	1.000	1.001	45.801	91.6	0.259	45.8
17	17 OCDF	5.99e4	0.94	NO	0.949	1.000	41.313	41.31	1.000	1.000	90.876	90.9	0.220	90.9
18	18 13C-2,3,7,8-TCDD	1.15e5	0.78	NO	1.26	1.000	26.273	26.16	1.026	1.021	98.768	98.8	0.190	1
19	19 13C-1,2,3,7,8-PeCDD	8.41e4	0.63	NO	0.921	1.000	30.780	30.61	1.202	1.195	98.770	98.8	0.204	
20	20 13C-1,2,3,4,7,8-HxCDD	6.49e4	1.33	NO	0.707	1.000	33.924	33.94	1.014	1.014	96.881	96.9	0.410	
21	21 13C-1,2,3,6,7,8-HxCDD	7.68e4	1.35	NO	0.829	1.000	34.035	34.04	1.017	1.017	97. <del>9</del> 44	97.9	0.350	
22	22 13C-1,2,3,7,8,9-HxCDD	7.47e4	1.30	NO	0.808	1.000	34.306	34.34	1.025	1.027	97.724	97.7	0.359	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.34e4	1.05	NO	0.662	1.000	37.772	37.78	1.129	1.129	101.15	101	0.442	ļ
24	24 13C-OCDD	1.13e5	0.91	NO	0.608	1.000	40.796	41.08	1.219	1.228	195.63	97.8	0.384	
25	25 13C-2,3,7,8-TCDF	1.83e5	0.82	NO	1.07	1.000	25.351	25.39	0.990	0.992	103.34	103	0.227	1
26	26 13C-1,2,3,7,8-PeCDF	1.39e5	1.67	NO	0.826	1.000	29.594	29.44	1.156	1.150	101.66	102	0.336	1
27	27 13C-2,3,4,7,8-PeCDF	1.33e5	1.69	NO	0.796	1.000	30.498	30.33	1.191	1.184	100.59	101	0.348	
28	28 13C-1,2,3,4,7,8-HxCDF	1.00e5	0.48	NO	1.08	1.000	33.055	33.04	0.988	0.988	98.338	98.3	0.415	
29	29 13C-1,2,3,6,7,8-HxCDF	1.04e5	0.50	NO	1.12	1.000	33.188	33.16	0.992	0.991	98.132	98.1	0.397	
30	30 13C-2,3,4,6,7,8-HxCDF	9.79e4	0.51	NO	1.02	1.000	33.760	33.76	1.009	1.009	100.89	101	0.436	
31	31 13C-1,2,3,7,8,9-HxCDF	8.50e4	0.51	NO	0.887	1.000	34.660	34.73	1.036	1.038	101.29	101	0.503	
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.76e4	0.43	NO	0.811	1.000	36.367	36.58	1.087	1.093	101.06	101	0.441	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.65e4	0.43	NO	0.598	1.000	38.374	<b>3</b> 8.32	1.147	1.145	99.690	99.7	0.597	1
34	34 13C-OCDF	1.39e5	0.89	NO	0.752	1.000	40.950	41.31	1.224	1.235	195.21	97.6	0.341	

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1.1	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37CI-2,3,7,8-TCDD	1.06e4			1.24	1.000	26.270	26.19	1.026	1.023	9.2283	92.3	0.0610	1.
36	36 13C-1,2,3,4-TCDD	9.24e4	0.78	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.240	1.1
37	37 13C-1,2,3,4-TCDF	1.66e5	0.81	NO	1.00	1.000	24.020	24.22	1.000	1.000	100.00	100	0.242	
38	38 13C-1,2,3,4,6,9-HxCDF	9.47e4	0.50	NO	1.00	1.000	33.530	33.46	1.000	1.000	100.00	100	0.446	

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	# 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	4.74e4	0.80	NO	0.986	1.000	26.204	26.19	1.001	1.001	39.352	98.4	0.0679	39.4
2	2 1,2,3,7,8-PeCDD	1.76e5	0.62	NO	0.964	1.000	30.630	30.63	1.001	1.001	205.12	103	0.0946	205
3	3 1,2,3,4,7,8-HxCDD	1.72e5	1.25	NO	1.16	1.000	33.949	33.95	1.000	1.000	211.56	106	0.243	212
4	4 1,2,3,6,7,8-HxCDD	1.70e5	1.25	NO	1.01	1.000	34.049	34.06	1.000	1.000	202.09	101	0.251	202
5	5 1,2,3,7,8,9-HxCDD	1.67e5	1.26	NO	1.01	1.000	34.379	34.36	1.001	1.000	204.43	102	0.270	204
6	6 1,2,3,4,6,7,8-HpCDD	1.37e5	1.01	NO	0.997	1.000	37.791	37.79	1.000	1.000	202.23	101	0.407	202
7	7 OCDD	2.65e5	0.87	NO	1.01	1.000	41.082	41.10	1.000	1.001	434.38	109	0.379	434
8	8 2,3,7,8-TCDF	6.45e4	0.75	NO	0.833	1.000	25.418	25.42	1.001	1.001	40.000	100	0.0596	40.0
9	9 1,2,3,7,8-PeCDF	3.04e5	1.59	NO	0.965	1.000	29.482	29.46	1.001	1.000	213.96	107	0.164	214
10	10 2,3,4,7,8-PeCDF	3.00e5	1.59	NO	1.01	1.000	30.357	30.35	1.001	1.001	206.52	103	0.150	207
11	11 1,2,3,4,7,8-HxCDF	2.51e5	1.26	NO	1.09	1.000	33.039	33.05	1.000	1.000	210.60	105	0.248	211
12	12 1,2,3,6,7,8-HxCDF	2.59e5	1.26	NO	1.07	1.000	33.181	33.18	1.000	1.000	213.97	107	0.259	214
13	13 2,3,4,6,7,8-HxCDF	2.53e5	1.26	NO	1.15	1.000	33.797	33.77	1.001	1.000	216.56	108	0.270	217
14	14 1,2,3,7,8,9-HxCDF	2.06e5	1.30	NO	1.11	1.000	34.729	34.74	1.000	1.000	212.53	106	0.338	213
15	15 1,2,3,4,6,7,8-HpCDF	1.97e5	1.04	NO	1.16	1.000	36.631	36.61	1.001	1.000	208.57	104	0.433	209
16	16 1,2,3,4,7,8,9-HpCDF	1.72e5	1.03	NO	1.35	1.000	38.328	38.34	1.000	1.000	210.80	105	0.416	211
17	17 OCDF	3.09e5	0.90	NO	0.949	1.000	41.313	41.32	1.000	1.000	418.90	105	0.339	419
18	18 13C-2,3,7,8-TCDD	1.22e5	0.78	NO	1.26	1.000	26.273	26.17	1.026	1.022	102.09	102	0.179	
19	19 13C-1,2,3,7,8-PeCDD	8.91e4	0.62	NO	0.921	1.000	30.780	30.61	1.202	1.195	101.83	102	0.232	
20	20 13C-1,2,3,4,7,8-HxCDD	7.00e4	1.27	NO	0.707	1.000	33.924	33.94	1.014	1.014	100.01	100	0.380	
21	21 13C-1,2,3,6,7,8-HxCDD	8.35e4	1.35	NO	0.829	1.000	34.035	34.05	1.017	1.018	101.77	102	0.324	
22	22 13C-1,2,3,7,8,9-HxCDD	8.10e4	1.33	NO	0.808	1.000	34.306	34.34	1.025	1.027	101.36	101	0.332	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.79 <b>e</b> 4	1.08	NO	0.662	1.000	37.772	37.78	1.129	1.129	103.74	104	0.514	
24	24 13C-OCDD	1.20e5	0.88	NO	0.608	1.000	40.796	41.08	1.219	1.228	199.83	99.9	0.503	
25	25 13C-2,3,7,8-TCDF	1.93e5	0.79	NO	1.07	1.000	25.351	25.39	0.990	0.992	101.75	102	0.262	
26	26 13C-1,2,3,7,8-PeCDF	1.47e5	1.78	NO	0.826	1.000	29.594	29.46	1.156	1.151	100.19	100	0.353	
27	27 13C-2,3,4,7,8-PeCDF	1.44e5	1.64	NO	0.796	1.000	30.498	30.33	1.191	1.184	101.62	102	0.366	
28	28 13C-1,2,3,4,7,8-HxCDF	1.09e5	0.50	NO	1.08	1.000	33.055	33.04	0.988	0.988	102.47	102	0.407	
29	29 13C-1,2,3,6,7,8-HxCDF	1.14e5	0.50	NO	1.12	1.000	33.188	33.17	0.992	0.991	102.21	102	0.389	(
30	30 13C-2,3,4,6,7,8-HxCDF	1.01e5	0.51	NO	1.02	1.000	33.760	33.76	1.009	1.009	99.881	99.9	0.427	
31	31 13C-1,2,3,7,8,9-HxCDF	8.72e4	0.49	NO	0.887	1.000	34.660	34.73	1.036	1.038	99.350	99.3	0.493	
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.15e4	0.44	NO	0.811	1.000	36.367	36.59	1.087	1.094	101.53	102	0.467	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.06e4	0.41	NO	0.598	1.000	38.374	38.33	1.147	1.146	102.34	102	0.633	ľ
34	34 13C-OCDF	1.55e5	0.88	NO	0.752	1.000	40.950	41.31	1.224	1.235	208.58	104	0.384	

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C.C.	# Name	Resp	RA	n/y	RRF	wt/voi	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37CI-2,3,7,8-TCDD	4.98e4			1.24	1.000	26.270	26.19	1.026	1.023	42.189	105	0.0815	
36	36 13C-1,2,3,4-TCDD	9.49e4	0.79	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.225	
37	37 13C-1,2,3,4-TCDF	1.78e5	0.78	NO	1.00	1.000	24.020	24.22	1.000	1.000	100.00	100	0.280	
38	38 13C-1,2,3,4,6,9-HxCDF	9.90e4	0.50	NO	1.00	1.000	33.530	33.46	1.000	1.000	100.00	100	0.437	

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1-27-	# 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	3.68e5	0.80	NO	0.986	1.000	26.204	26.19	1.001	1.001	364.45	121	0.101	364
2 3	2 1,2,3,7,8-PeCDD	1.40e6	0.63	NO	0.964	1.000	30.650	30.63	1.001	1.000	1848.3	123	0.267	1850
3	3 1,2,3,4,7,8-HxCDD	1.43e6	1.25	NO	1.16	1.000	33.960	33.96	1.000	1.000	1847.5	123	0.492	1850
4	4 1,2,3,6,7,8-HxCDD	1.38e6	1.23	NO	1.01	1.000	34.060	34.07	1.000	1.000	1775.5	118	0.510	1780
5	5 1,2,3,7,8,9-HxCDD	1.39 <b>e</b> 6	1.24	NO	1.01	1.000	34.390	34.37	1.001	1.000	1808.8	121	0.520	1810
6	6 1,2,3,4,6,7,8-HpCDD	1.16e6	1.03	NO	0.997	1.000	37.802	37.80	1.000	1.000	1821.7	121	0.929	1820
7	7 OCDD	2.27e6	0.89	NO	1.01	1.000	41.104	41.12	1.000	1.000	3544.5	118	0.574	3540
8	8 2,3,7,8-TCDF	5.10e5	0.77	NO	0.833	1.000	25.418	25.42	1.001	1.001	367.11	122	0.101	367
9	9 1,2,3,7,8-PeCDF	2.35e6	1.58	NO	0.965	1.000	29.482	29.48	1.001	1.001	1831.5	122	0.215	1830
10	10 2,3,4,7,8-PeCDF	2.35e6	1.57	NO	1.01	1.000	30.377	30.35	1.001	1.000	1813.0	121	0.210	1810
11	11 1,2,3,4,7,8-HxCDF	1.98e6	1.25	NO	1.09	1.000	33.050	33.06	1.000	1.000	1790.5	119	0.579	1790
12	12 1,2,3,6,7,8-HxCDF	2.01e6	1.25	NO	1.07	1.000	33.181	33.19	1.000	1.001	1817.2	121	0.586	1820
13	13 2,3,4,6,7,8-HxCDF	2.03e6	1.25	NO	1.15	1.000	33.808	33.79	1.001	1.000	1813.2	121	0.622	1810
14	14 1,2,3,7,8,9-HxCDF	1.69e6	1.26	NO	1.11	1.000	34.729	34.75	1.000	1.001	1750.8	117	0.759	1750
15	15 1,2,3,4,6,7,8-HpCDF	1.65 <b>e</b> 6	1.02	NO	1.16	1.000	36.631	36.62	1.001	1.001	1832.5	122	0.950	1830
16	16 1,2,3,4,7,8,9-HpCDF	1.48e6	1.02	NO	1.35	1.000	38.339	38.34	1.000	1.000	1811.2	121	0.920	1810
17	17 OCDF	2.67e6	0.89	NO	0.949	1.000	41.324	41.33	1.000	1.000	3489.5	116	0.436	3490
18	18 13C-2,3,7,8-TCDD	1.02e5	0.78	NO	1.26	1.000	26.273	26.17	1.026	1.022	97.082	97.1	0.235	
19	19 13C-1,2,3,7,8-PeCDD	7.85e4	0.62	NO	0.921	1.000	30.780	30.63	1.202	1.196	101.79	102	0.196	
20	20 13C-1,2,3,4,7,8-HxCDD	6.66e4	1.32	NO	0.707	1.000	33.936	33.95	1.014	1.014	104.87	105	0.369	
21	21 13C-1,2,3,6,7,8-HxCDD	7.72e4	1.33	NO	0.829	1.000	34.046	34.06	1.017	1.018	103.76	104	0.315	
22	22 13C-1,2,3,7,8,9-HxCDD	7.61e4	1.28	NO	0.808	1.000	34.317	34.36	1.025	1.027	104.98	105	0.323	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.37e4	1.02	NO	0.662	1.000	37.784	37.79	1.129	1.129	107.29	107	0.467	
24	24 13C-OCDD	1.27e5	0.90	NO	0.608	1.000	40.810	41.10	1.219	1.228	231.88	116	0.362	
25	25 13C-2,3,7,8-TCDF	1.67e5	0.79	NO	1.07	1.000	25.351	25.39	0.990	0.992	94.694	94.7	0.249	
26	26 13C-1,2,3,7,8-PeCDF	1.33e5	1.61	NO	0.826	1.000	29.594	29.46	1.156	1.151	97.488	97.5	0.410	
27	27 13C-2,3,4,7,8-PeCDF	1.29e5	1.68	NO	0.796	1.000	30.498	30.35	1.191	1.185	98.043	98.0	0.425	1
28	28 13C-1,2,3,4,7,8-HxCDF	1.01e5	0.51	NO	1.08	1.000	33.066	33.05	0.988	0.988	104.52	105	0.398	
29	29 13C-1,2,3,6,7,8-HxCDF	1.04e5	0.50	NO	1.12	1.000	33.199	33.17	0.992	0.991	102.86	103	0.380	
30	30 13C-2,3,4,6,7,8-HxCDF	9.68e4	0.49	NO	1.02	1.000	33.772	33.77	1.009	1.009	105.29	105	0.417	
31	31 13C-1,2,3,7,8,9-HxCDF	8.66e4	0.49	NO	0.887	1.000	34.672	34.73	1.036	1.038	108.80	109	0.482	
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.78e4	0.44	NO	0.811	1.000	36.379	36.59	1.087	1.093	106.85	107	0.442	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.04e4	0.44	NO	0.598	1.000	38.387	38.34	1.147	1.146	112.41	112	0.599	
34	34 13C-OCDF	1.61e5	0.88	NO	0.752	1.000	40.964	41.32	1.224	1.235	239.12	120	0.313	

# Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

Last Altered:	Wednesday, May 27, 2020 11:53:39 Pacific Daylight Time
Printed:	Wednesday, May 27, 2020 11:56:15 Pacific Daylight Time

20 miles	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
35	35 37CI-2,3,7,8-TCDD	2.34e5			1.24	1.000	26.270	26.19	1.026	1.023	224.95	112	0.0764	
36	36 13C-1,2,3,4-TCDD	8.37e4	0.81	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.295	
37	37 13C-1,2,3,4-TCDF	1.65e5	0.79	NO	1.00	1.000	24.020	24.22	1.000	1.000	100.00	100	0.266	
38	38 13C-1,2,3,4,6,9-HxCDF	8.98e4	0.50	NO	1.00	1.000	33.530	33.47	1.000	1.000	100.00	100	0.428	

Quantify Sam Vista Analytica	al Laboratory MassLynx 4.1	Page 1 of 1
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, May 27, 2020 11:57:57 Pacific Daylight Time Wednesday, May 27, 2020 11:58:25 Pacific Daylight Time	

# Method: C:\MassLynx\Default.pro\Methdb\CPSM.mdb 18 May 2020 14:57:34 Calibration: 27 May 2020 11:57:57

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.89
2	2 1,2,8,9-TCDD (Last)	27.03
3	3 1,2,4,7,9-PeCDD (First)	28.62
4	4 1,2,3,8,9-PeCDD (Last)	30.99
5	5 1,2,4,6,7,9-HxCDD (First)	32.40
6	6 1,2,3,7,8,9-HxCDD (Last)	34.36
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.97
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.79
9	9 1,3,6,8-TCDF (First)	20.81
10	10 1,2,8,9-TCDF (Last)	27.17
11	11 1,3,4,6,8-PeCDF (First)	27.12
12	12 1,2,3,8,9-PeCDF (Last)	31.21
13	13 1,2,3,4,6,8-HxCDF (First)	31.86
14	14 1,2,3,7,8,9-HxCDF (Last)	34.74
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.61
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.34

Dataset: Untitled

Last Altered:	Wednesday, May 27, 2020 11:36:43 Pacific Daylight Time
Printed:	Wednesday, May 27, 2020 11:37:00 Pacific Daylight Time

### Method: C:\MassLynx\Default.PRO\MethDB\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-3-9-20.cdb 09 Mar 2020 17:20:28

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

1 199	Name	ID	Acq.Date	Acq.Time
1	200526D2_1	SOLVENT BLANK	26-May-20	20:12:13
2	200526D2_2	ST200526D2-1 1613 CS0 20E0704	26-May-20	20:57:24
3	200526D2_3	ST200526D2-2 1613 CS1 20E0705	26-May-20	21:42:35
4	200526D2_4	ST200526D2-3 1613 CS2 20E0706	26-May-20	22:27:45
5	200526D2_5	ST200526D2-4 1613 CS3 20E0707	26-May-20	23:12:55
6	200526D2_6	ST200526D2-5 1613 CS4 20E0708	26-May-20	23:58:05
7	200526D2_7	ST200526D2-6 1613 CS5 20E0709	27-May-20	00:43:15
8	200526D2_8	SOLVENT BLANK	27-May-20	01:28:25
9	200526D2_9	SS200526D2-1 1613 SSS 20E0710	27-May-20	02:13:37
10	200526D2_10	QC200526D2-1 1613 QC OPR COMB NS	27-May-20	02:58:46

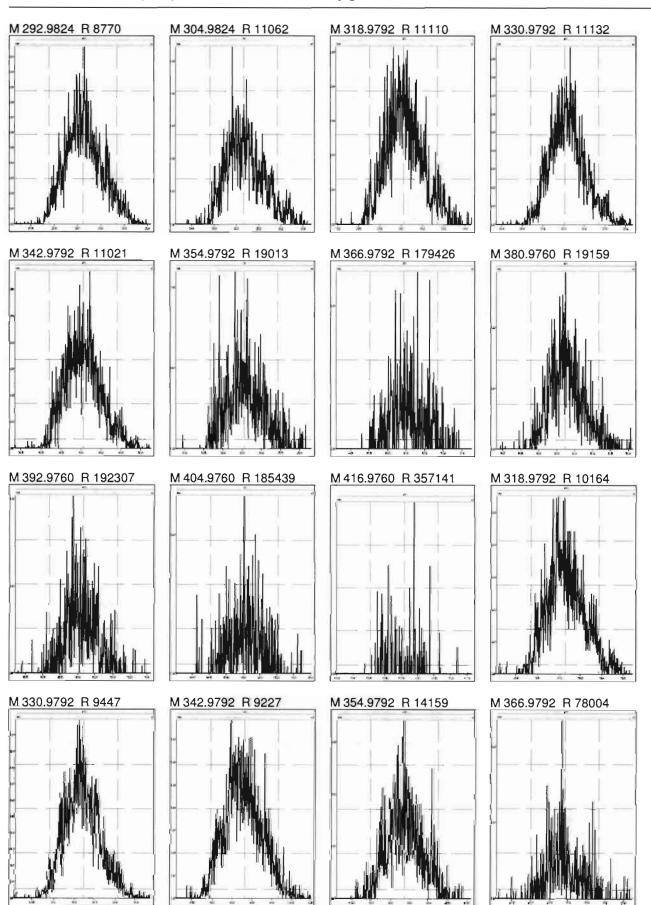
### **Resolution Check Report**

MassLynx 4.1

Page 1 of 3

Printed:



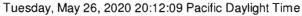


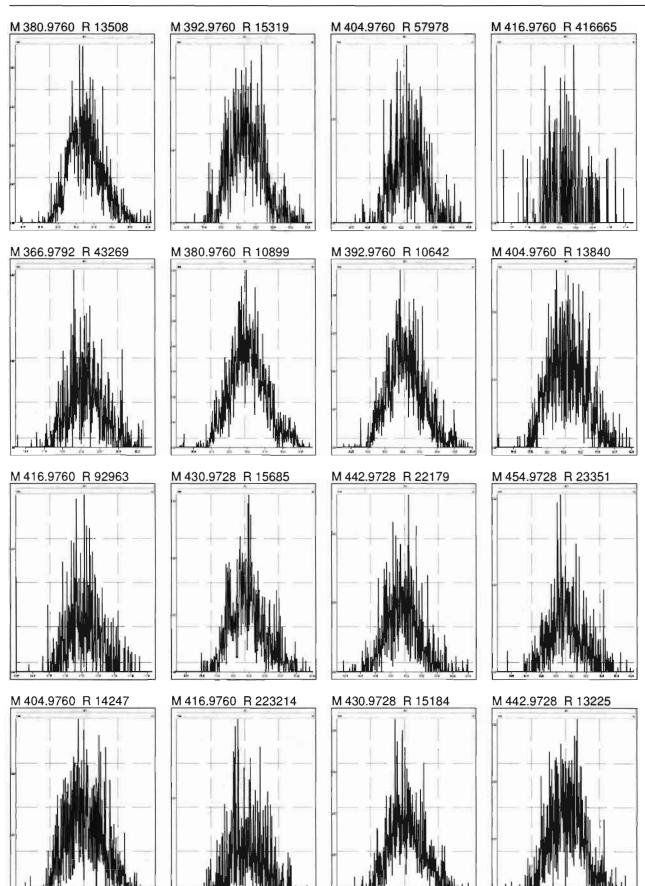
### **Resolution Check Report**

MassLynx 4.1

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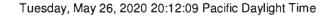
Work Order 2001155

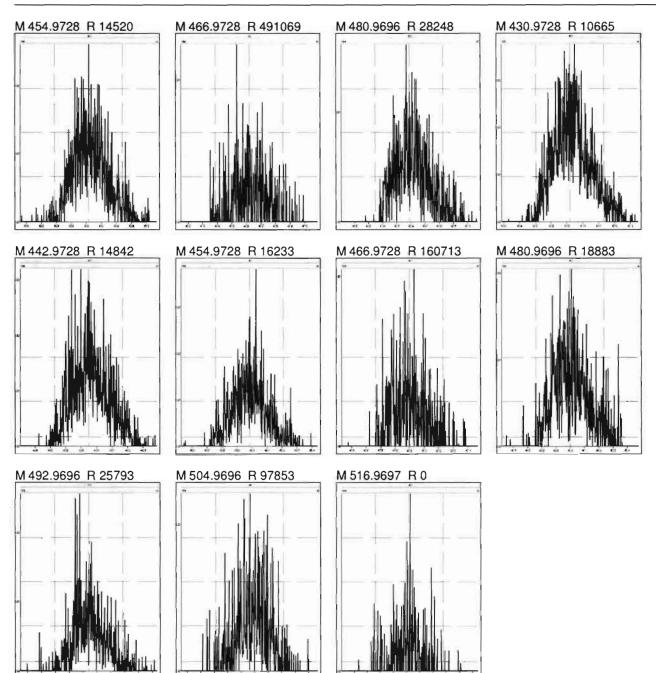
### **Resolution Check Report**

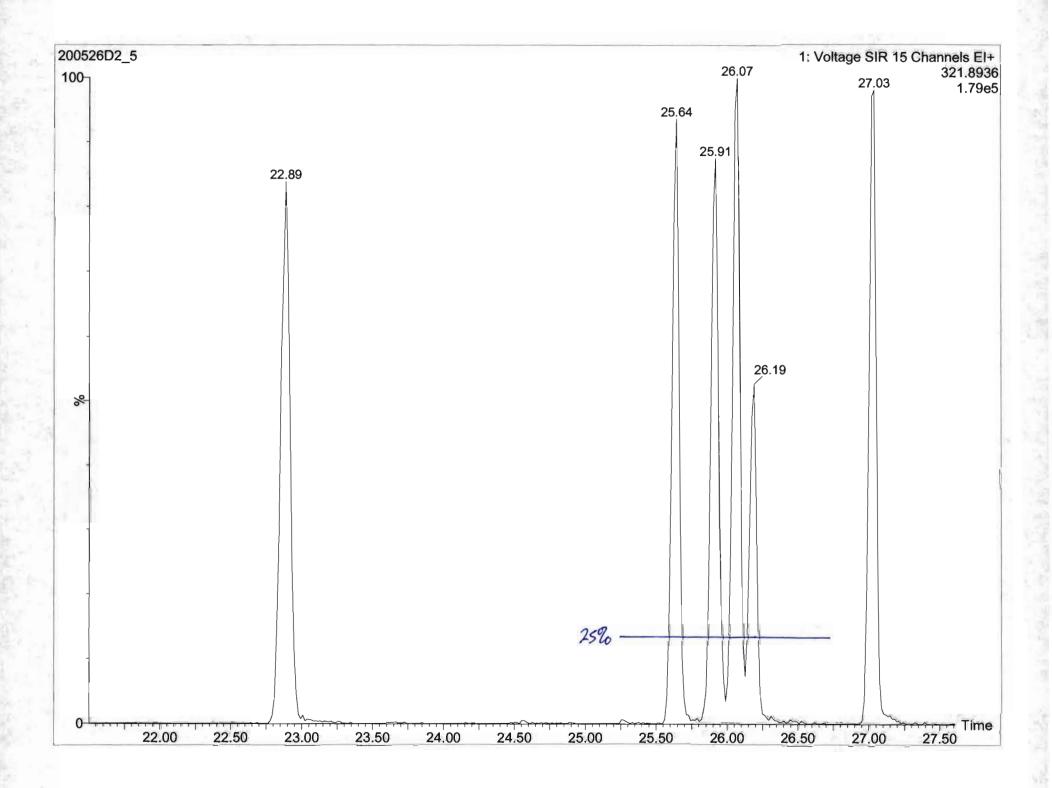
MassLynx 4.1

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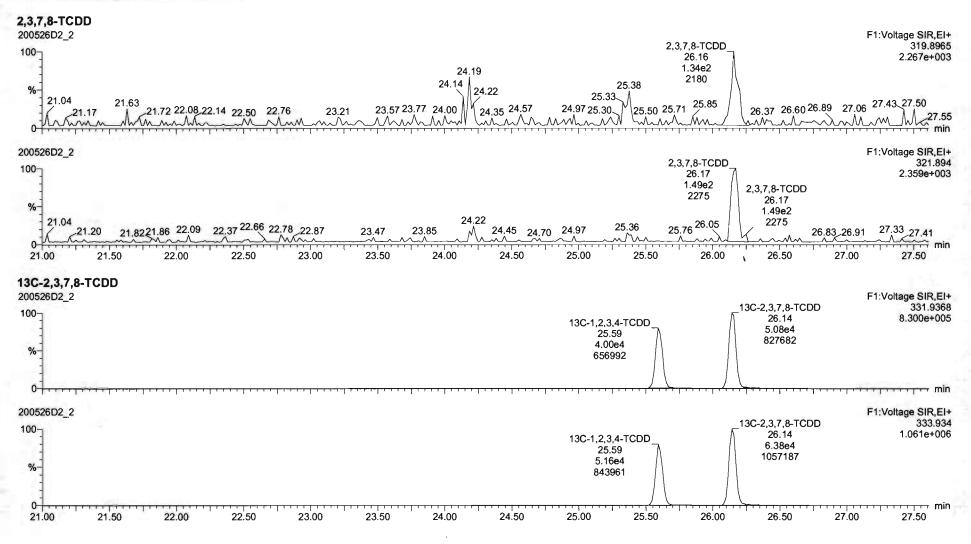


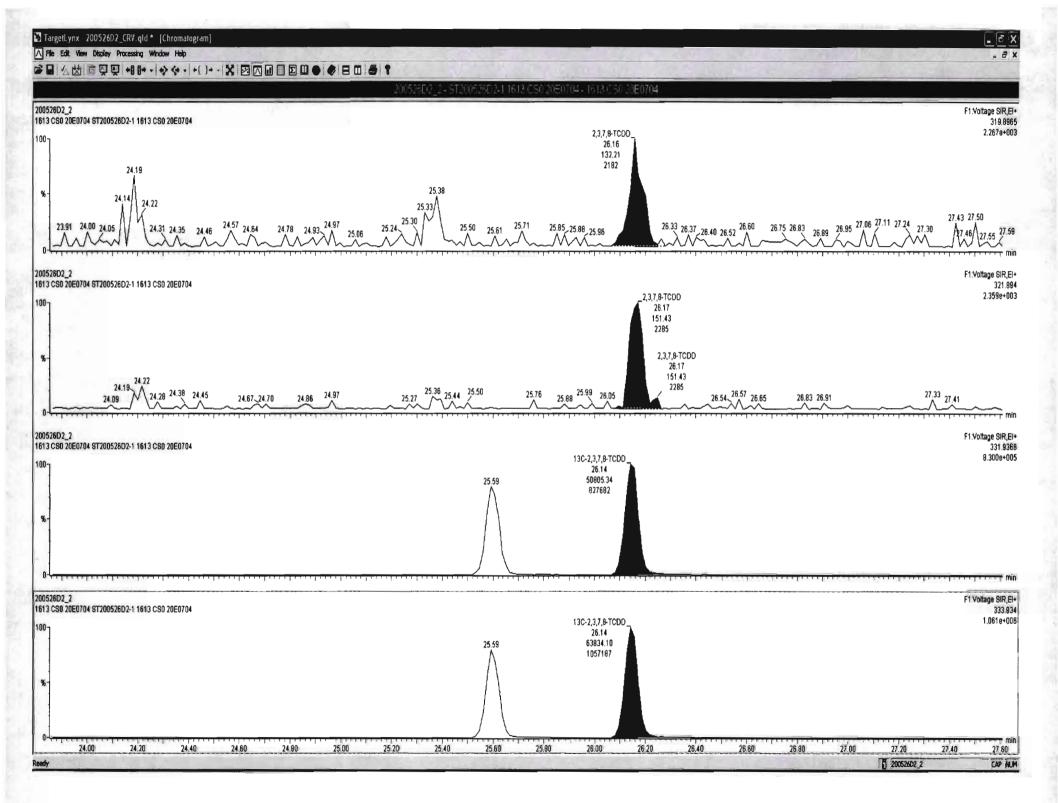




Quantify Sam Vista Analytica		Page 1 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

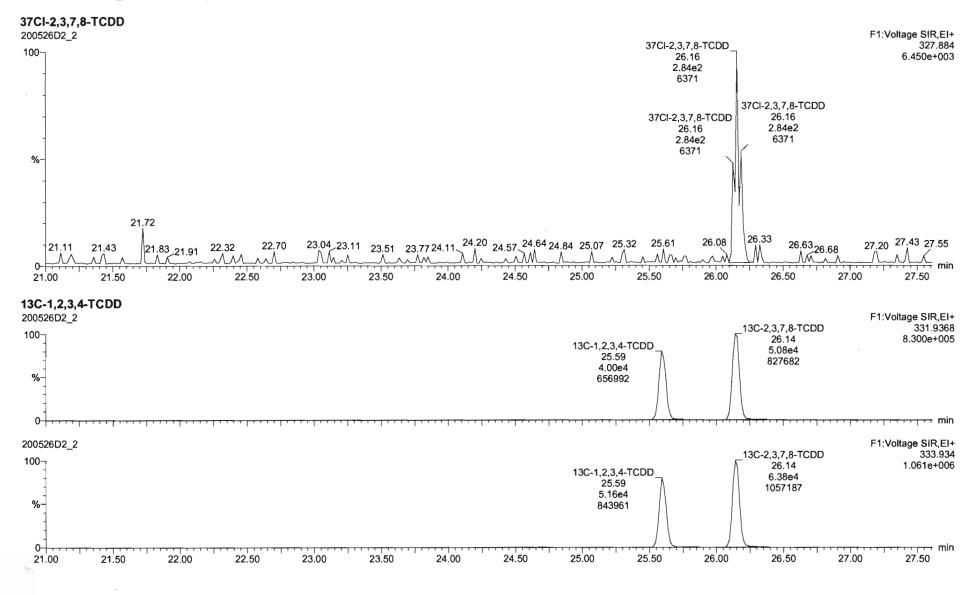
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Quantify San Vista Analytica		Page 2 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

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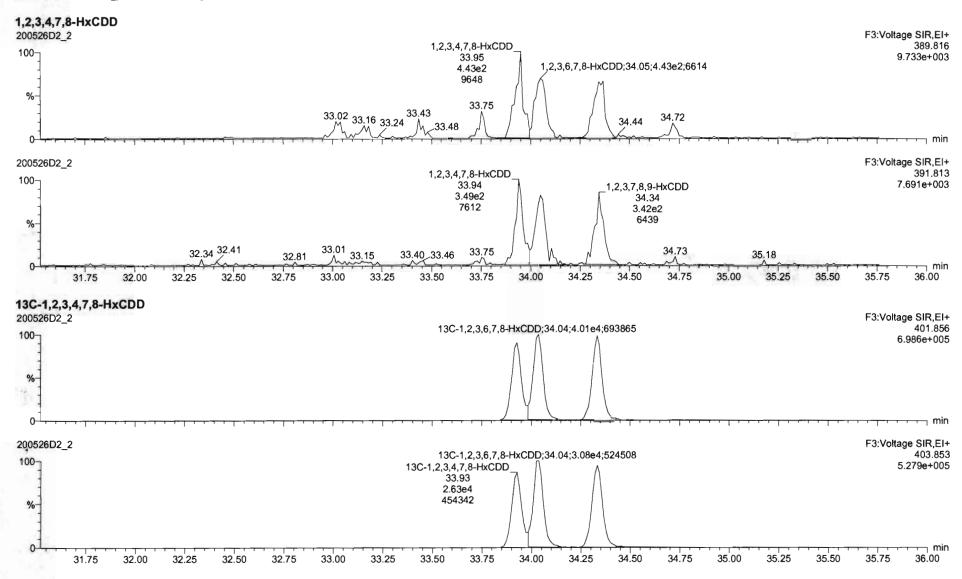


Work Order 2001155

	nple Report N al Laboratory	lassLynx 4.1								Page 3 of
ataset:	U:\VG7.PRO\Resu	llts\200526D2\2	00526D2_CR\	/.qld						
ast Altered: rinted:	Wednesday, May 2 Wednesday, May 2									-
ame: 20052	6D2_2, Date: 26-Ma	y-2020, Time: 2	20:57:24, ID: S	T200526D	02-1 1613 CS0	20E0704, Descrij	otion: 1613 CS0 20	E0704		
2,3,7,8-PeC	DD									
0526D2_2					29.44 1.92e2 4449		1,2,3,7,8-PeC 30.61 3.40e2	DD		F2:Voltage SIR, 353.8 5.658e+
~ ~					$\wedge$		5578			
0		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	$\overline{\beta}$	<del></del>	29.54	29.90				31.49 ا
0526D2_2										F2:Voltage SIR,
10 							1,2,3,7,8-PeC 30.61 5.44e2 11071			355.8 1.118 <del>e+</del>
<b>%</b> -					29.44		30.31			
0 27.80	<del>، من </del>	28.40 28.60	28.80 29.0	0 29.20	29.44	60 29.80 30.00	$\hat{\mathbf{m}}$	30.83 30.60 30.80	Thursday of the second	31.20 31.40
C-1,2,3,7,8								C. 778		
0526D2_2							13C-1,2,3,7,8-PeC	חח		F2:Voltage SIR, 365.8
<sup>00</sup>							30.61 3.12e4 605276	7		6.064e+
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				***		• ] • • • • • • • • • • • • • • • • • •	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
0526D2_2					, , , , ,					F2:Voltage SIR
00_  %_							13C-1,2,3,7,8-PeCD 30.59 4.94e4 905456			367. 9.066e+
1										

# Work Order 2001155

Quantify Sam Vista Analytica		Page 4 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

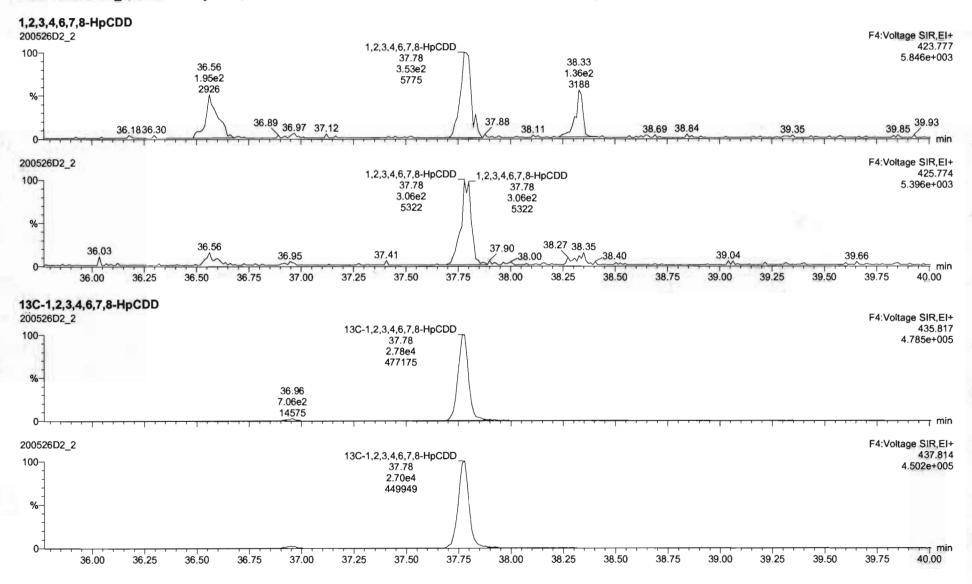


#### Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory

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#### Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

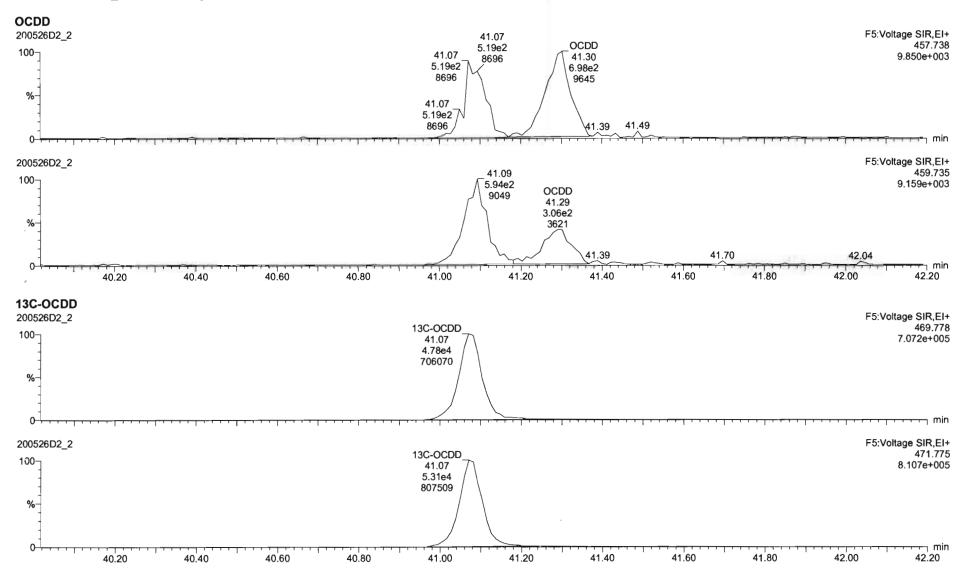
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Printed:	Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

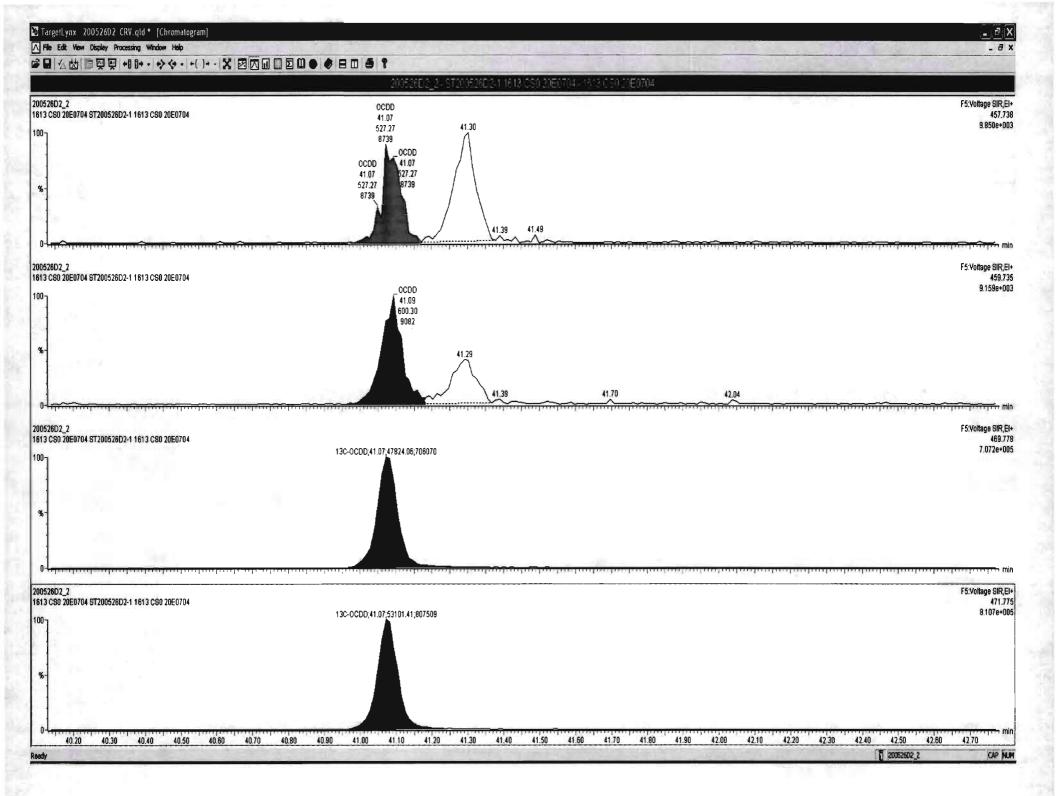


Quantify Sample Report	MassLynx 4.1	
Vista Analytical Laboratory		

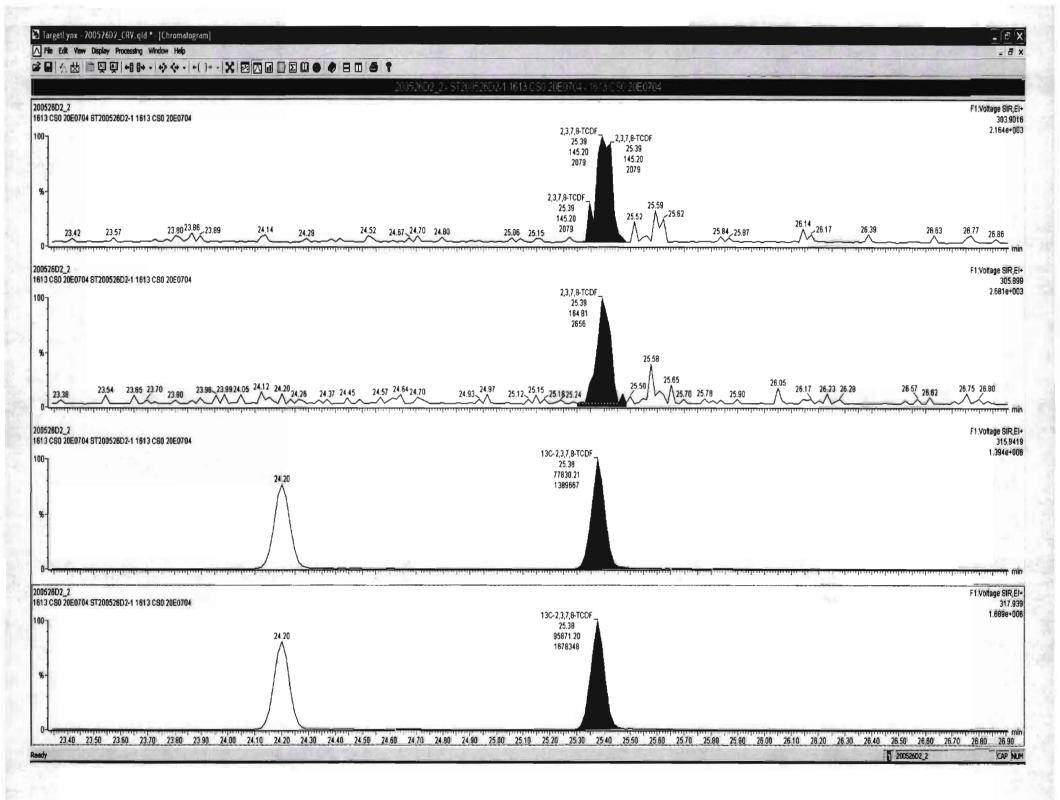
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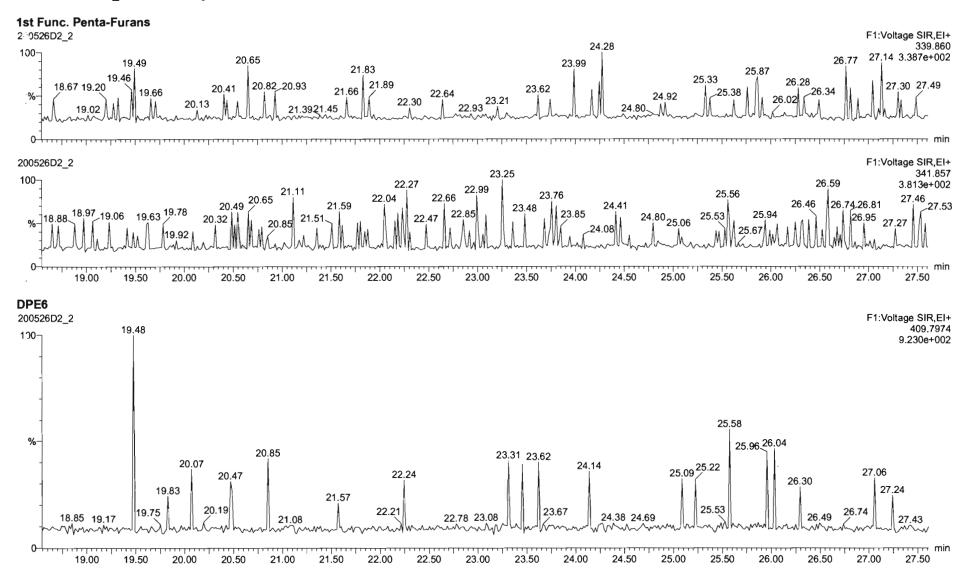
sta Analytical Laboratory	MassLynx 4.1 Page 7 of
taset: U:\VG7.PRO\	Results\200526D2\200526D2_CRV.qld
	May 27, 2020 11:41:15 Pacific Daylight Time May 27, 2020 11:42:00 Pacific Daylight Time
inted: Wednesday, I	May 27, 2020 11.42.00 Pacine Dayiight Time
	C Mar 2020 Time 20.57-24 ID: ST200526D2 4 4642 CS0 2050704 Description: 4642 CS0 2050704
me: 200526D2_2, Date: 20	6-May-2020, Time: 20:57:24, ID: ST200526D2-1 1613 CS0 20E0704, Description: 1613 CS0 20E0704
3,7,8-TCDF 0526D2_2	F1:Voltage SIR,
0 <sub>7</sub>	2,3,7,8-TCDF 2,3,7,8-TCDF;25.39;1.45e2;2079 21.0014ge Sir,1 25.39 25.39 21.64e4
18.91 19.12 19.89 0 18.91 19.12	21.37 01 00 22.24 0 23.04 24.70 24.70 25.59 00.44 26.39 00 00 27.20.27.27 27.
0526D2_2	F1:Voltage SIR,t
- -	2,3,7,8-TCDF 305.8 25.39 2.681e+0
19.06 19.42 19.55	$20.0420.10^{20.6820.94} 21.39 21.49^{21.97} 22.14 22.46^{22.64} 23.30 24.0524.12.24.20 2599 15.062 25.58 26.05 26.62 26.75 27.12 27.40 27.10 2$
•	20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50
19.00 19.50 2	20.00 20.50 21.00 21.50 22.00 22.50 25.00 25.50 24.00 24.50 25.00 25.50 20.00 20.50 21.50
C-2,3,7,8-TCDF 0526D2_2	F1:Voltage SIR,E
002002_2	13C-1,2,3,4-TCDF;24.20;7.22e4;1073494 13C-2,3,7,8-TCDF 315.94 25.38 1.394e+C
%-	∧ 7.78e4 /\
-	7.78e4           1389667
%	7.78e4 1389667 F1:Voltage SIR,
» 0 	7.78e4 1389667 F1:Voltage SIR,t 13C-1,2,3,4-TCDF;24.20;9.06e4;1367359 13C-2,3,7,8-TCDF_
0 0 0 0 526D2_2	۲.78e4 1389667 ۲.78e4 1389667 ۲1:Voltage SIR,t 13C-1,2,3,4-TCDF;24.20;9.06e4;1367359 13C-2,3,7,8-TCDF
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7.78e4 1389667 F1:Voltage SIR,6 13C-1,2,3,4-TCDF;24.20;9.06e4;1367359 13C-2,3,7,8-TCDF 25.38 9.59e4 1678348
0526D2_2 19 19.00 19.50 2	7.78e4 1389667 F1:Voltage SIR, 13C-1,2,3,4-TCDF;24.20;9.06e4;1367359 13C-2,3,7,8-TCDF 25.38 9.59e4 1689e+C 1689e+C
0526D2_2 19 0 19.00 19.50 2 PE1	7.78e4         1389667         F1:Voltage SIR,         13C-1,2,3,4-TCDF;24.20;9.06e4;1367359         13C-2,3,7,8-TCDF         25.38         9.59e4         1678348         20.00       20.50       21.00       21.50       22.00       22.50       23.00       23.50       24.00       24.50       25.00       25.50       26.00       26.50       27.00       27.50
0526D2_2 19 19.00 19.50 2	7.78e4 1389667 F1:Voltage SIR, 13C-1,2,3,4-TCDF;24.20;9.06e4;1367359 13C-2,3,7,8-TCDF 25.38 9.59e4 1678348 16783
0526D2_2 0 0 0 0 0 0 0 19.00 19.50 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2	7.78e4 1389667 F1:Voltage SIR, 13C-1,2,3,4-TCDF;24.20;9.06e4;1367359 13C-2,3,7,8-TCDF 25.38 9.59e4 1678348 16783
0526D2_2 0 0 0 0 0 0 0 19.00 19.50 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2	7.78e4 1389667 13C-1,2,3,4-TCDF;24.20;9.06e4;1367359 13C-2,3,7,8-TCDF 25.38 9.59e4 1678348 1678
0526D2_2 0 0 0 0 0 0 0 19.00 19.50 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2	7.78e4 1389667 13C-1,2,3,4-TCDF;24.20;9.06e4;1367359 13C-2,3,7,8-TCDF 25.38 9.59e4 1678348 1678
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.33 7,78e4 1389667 7,78e4 1389667 1389667 1389667 13C-1,2,3,4-TCDF;24.20;9.06e4;1367359 13C-2,3,7,8-TCDF 25,38 9.59e4 1689e40 25,50 25,50 26,00 25,50 26,00 25,50 26,00 26,50 27,00 27,50 F1:Voltage SIR, f 375,83 8.378e40 25,10
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.33



Quantify Sample Report	MassLynx 4.1
Vista Analytical Laboratory	

Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

Last Altered:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time
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ista Analytica		Page 9 of 7
ataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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ame: 200520	6D2_2, Date: 26-May-2020, Time: 20:57:24, ID: ST200526D2-1 1613 CS0 20E0704, Description: 1613 CS0 20E0704	
, <b>2,3,7,8-PeC</b> 00526D2_2 00	1,2,3,7,8-PeCDF;29.44;8.38e2;14409 30.33 9,88e2 19390	F2:Voltage SIR,E 339.8 1.946e+0
0		. , , m
00526D2_2 00	1,2,3,7,8-PeCDF 29.44 5.62e2 11186 2,3,4,7,8-PeCDF;30.33;5.39e2;9049	F2:Voltage SIR,E 341.8 1.133e+0
0 <sup>-1</sup> , , , , , , , , , , , , , , , , , , ,	28.00 28.25 28.50 28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 30.75 31.00 31.25 31.50	31.75 32.00
<b>3C-1,2,3,7,8</b> - 00526D2_2	PeCDF 13C-1,2,3,7,8-PeCDF 29.44 8.49e4 1733086 13C-2,3,4,7,8-PeCDF 30.33 8.09e4 1604114	F2:Voltage SIR,E 351.9 1.736e+0
00526D2_2		F2:Voltage SIR,E
00 %	13C-1,2,3,7,8-PeCDF 29.44 5.03e4 963410 13C-2,3,4,7,8-PeCDF 30.33 4.72e4 879515	353.8 9.659e+0
27.75	28.00 28.25 28.50 28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 30.75 31.00 31.25 31.50	31.75 32.00
PE2 00526D2_2	28,50 28.84	F2:Voltage SIR,E 409.79
00 	28.45	4.784 <del>e+</del> 0

28.00

28.25

28.50

28.75

29.00

29.25

29.50

29.75

30.00

30.25

30.50

30.75

31.00

0

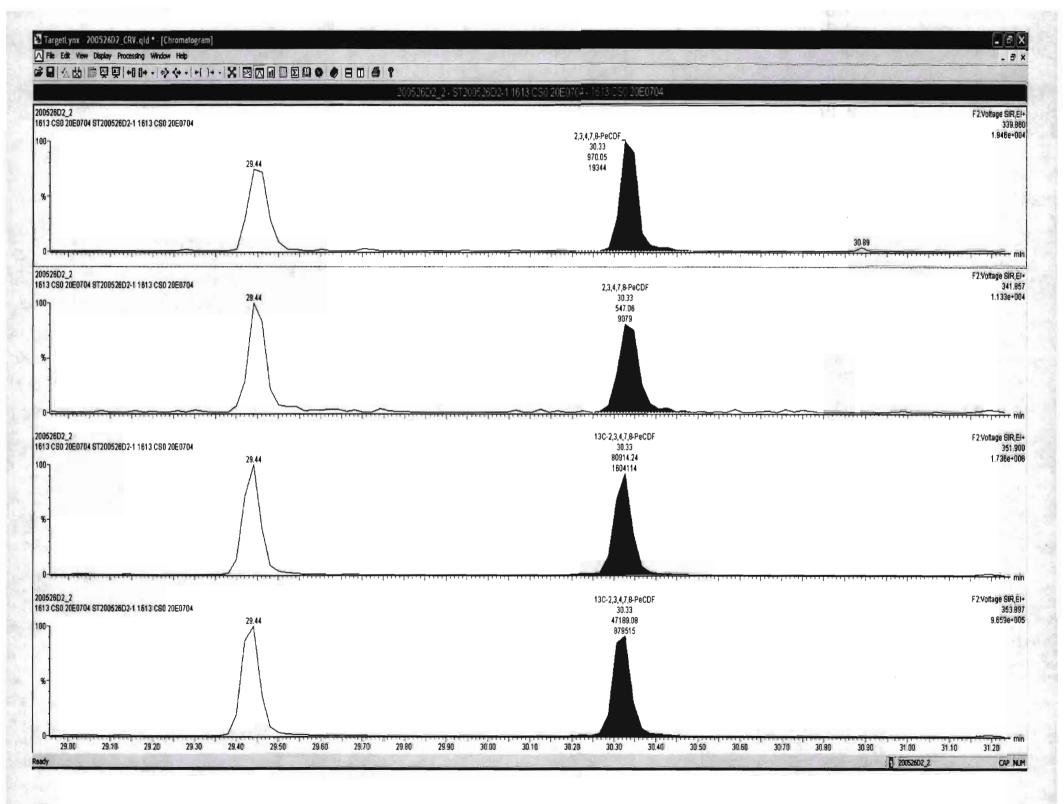
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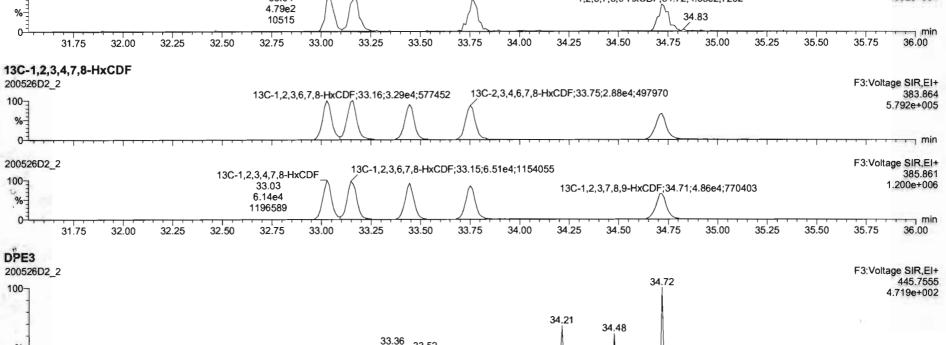
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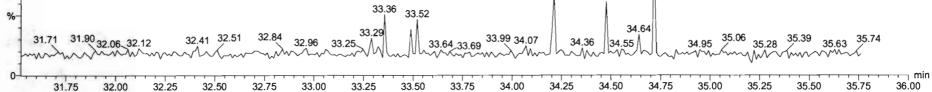
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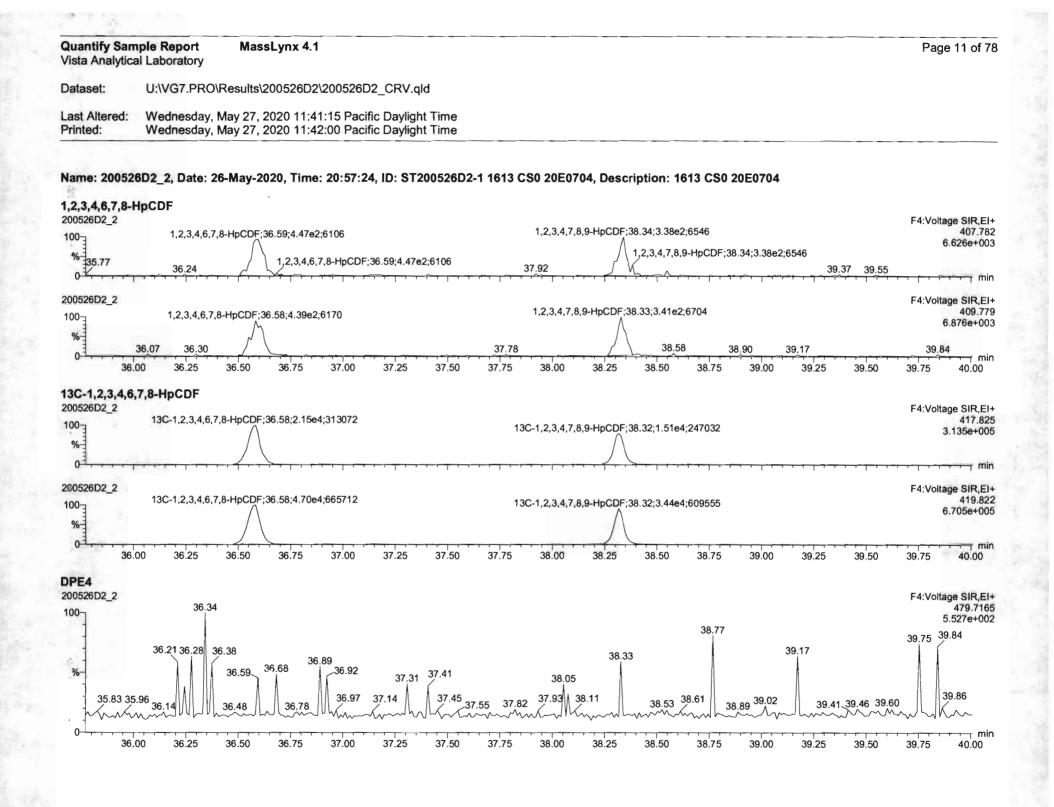
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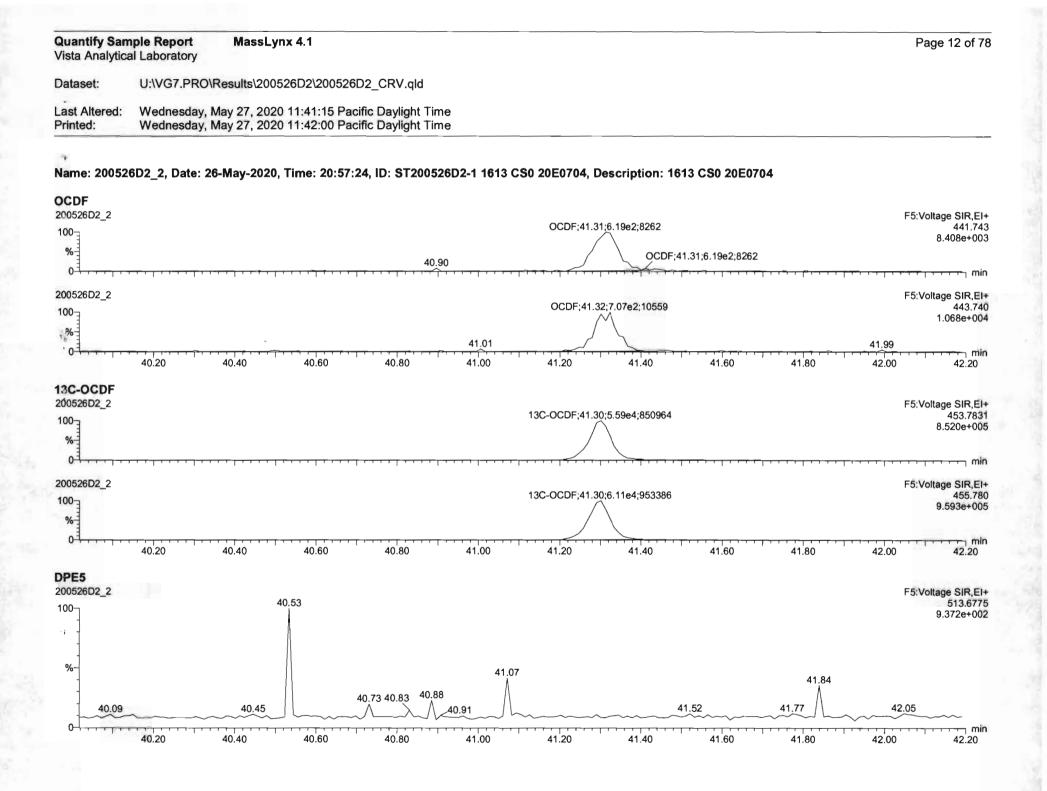


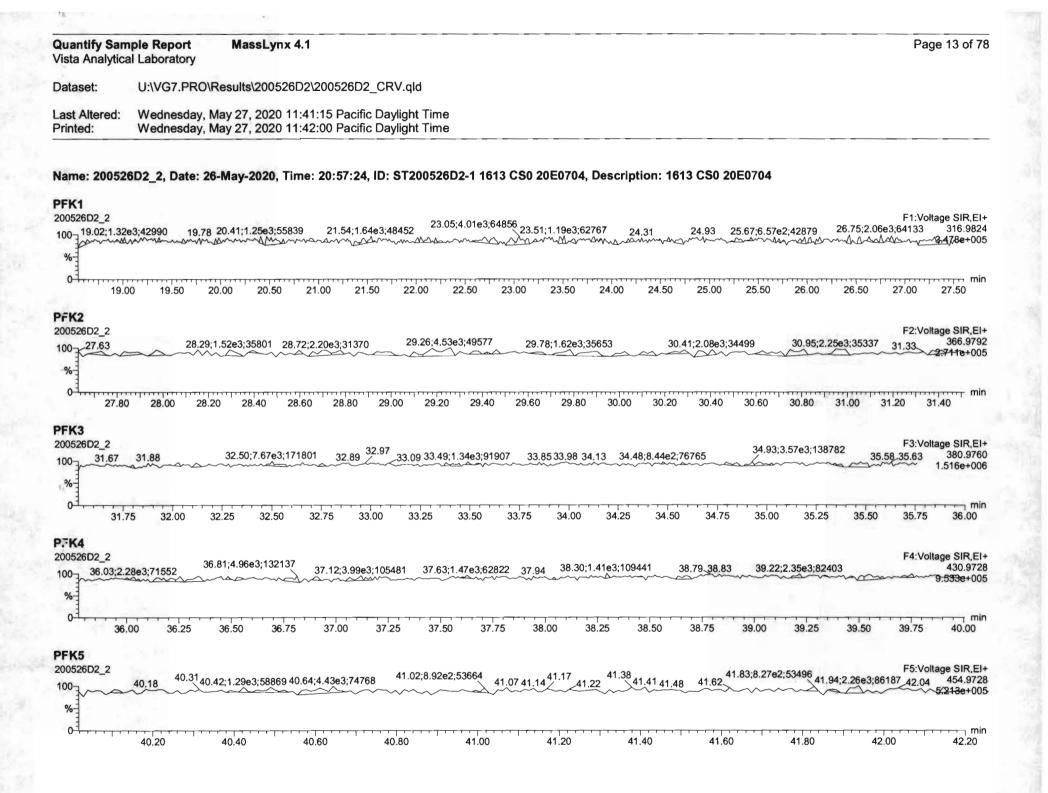
Vista Analytica	al Laboratory MassLynx 4.1	Page 10 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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lame: 20052	6D2_2, Date: 26-May-2020, Time: 20:57:24, ID: ST200526D2-1 1613 CS0 20E0704, Description: 1613 CS0 20E0704	
2.3.4.7.8-H	CDF	
1,2,3,4,7,8-Hx 200526D2_2 100-	1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDE:33,77:6,36e2:10814	F3:Voltage SIR,EI+ 373.821
200526D2_2		373.821 1.295e+004
200526D2_2	1,2,3,4,7,8-HxCDF2,3,4,6,7,8-HxCDF;33.77;6.36e2;10814 1,2,3,7,8,9-HxCDF;34.73;5.14e2;9203 33.04 6.72e2	373.821



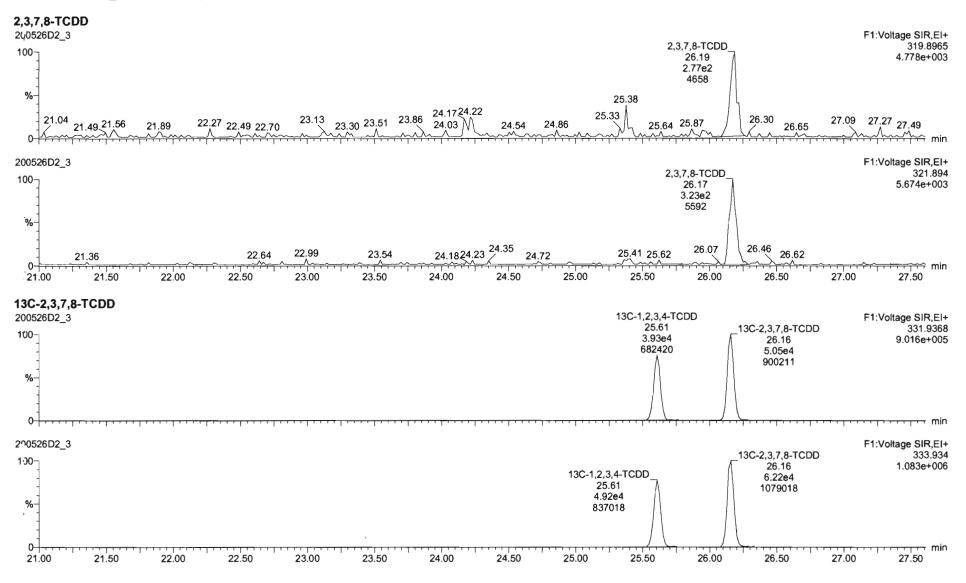








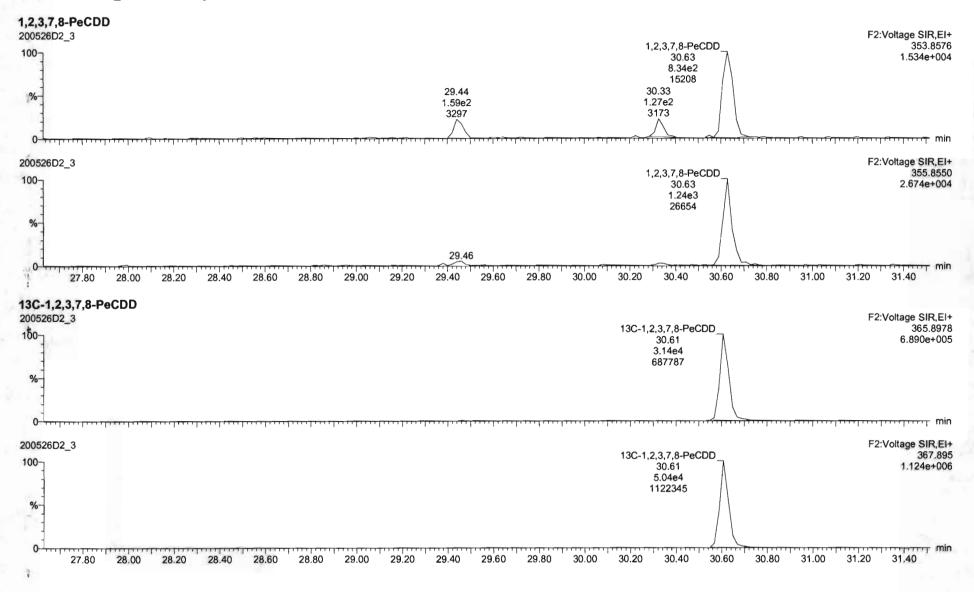
Quantify San Vista Analytica		Page 14 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	



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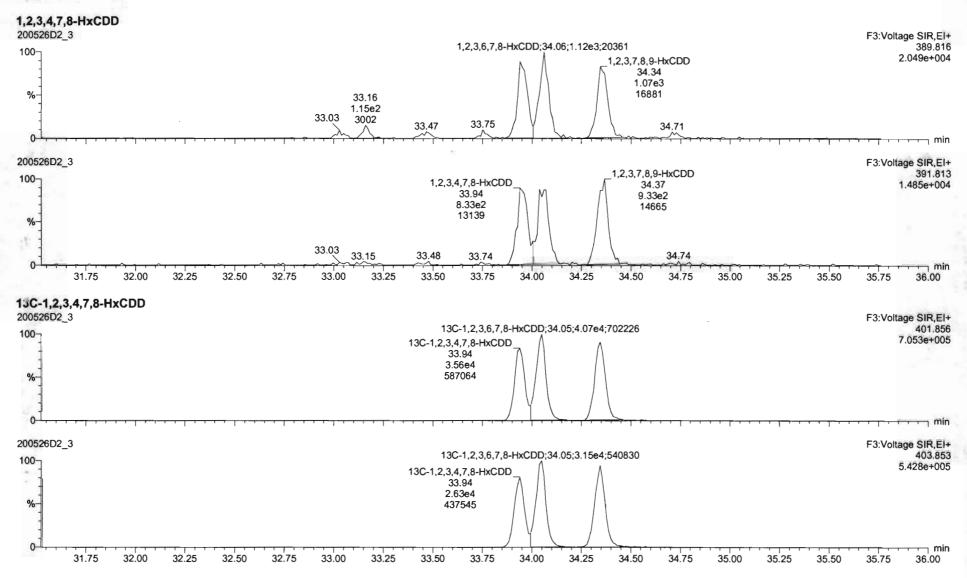
37CI-2,3,7,8-TCDD 200526D2 3 F1:Voltage SIR,EI+ 327.884 9.927e+003 37CI-2,3,7,8-TCDD 100-26.17 5.32e2 9810 % 4 27.55 21.07 21.48 26.05 21.66 21.94 22.09 25.01 25.16 26.77 27.12 27.32 25.53,25.59 26.39 23.68 23.93 22.40 22.98 23.21 24.69 MA ٨٨ M M A A 0 min 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 26.50 25.50 26.00 27.00 27.50 13C-1,2,3,4-TCDD 13C-1,2,3,4-TCDD 25.61 3.93e4 682420 200526D2 3 F1:Voltage SIR,EI+ 331.9368 13C-2,3,7,8-TCDD 100-26.16 9.016e+005 5.05e4 900211 %-:0-- min 200526D2 3 F1:Voltage SIR,EI+ 333.934 13C-2,3,7,8-TCDD 26.16 100-1.083e+006 13C-1,2,3,4-TCDD 25.61 6.22e4 1079018 4.92e4 %-837018 0min ----23.00 23.50 24.50 21.00 21.50 22.00 22.50 24.00 25.00 25.50 26.00 26.50 27.00 27.50

Quantify Sam Vista Analytica		Page 16 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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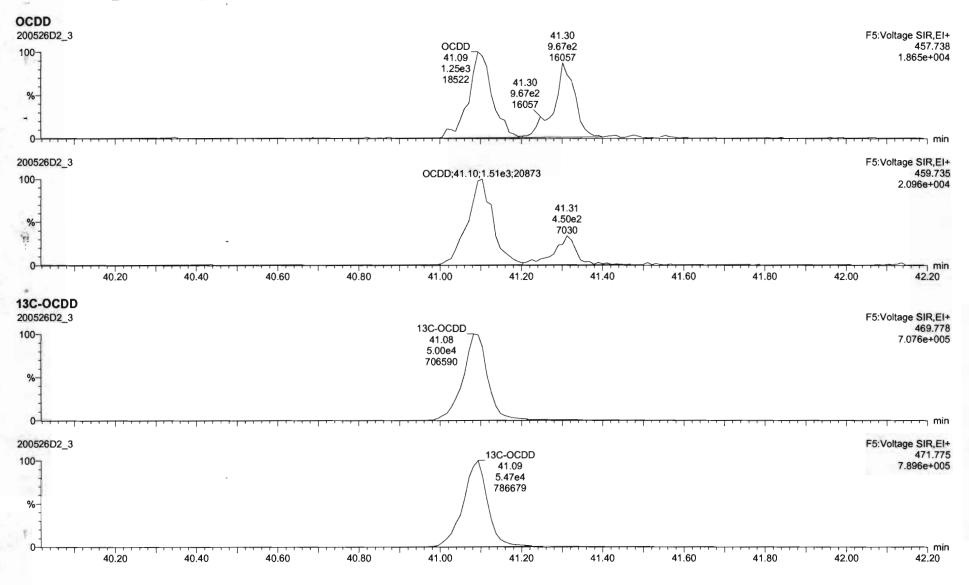
Work Order 2001155

Quantify Sam Vista Analytica		Page 17 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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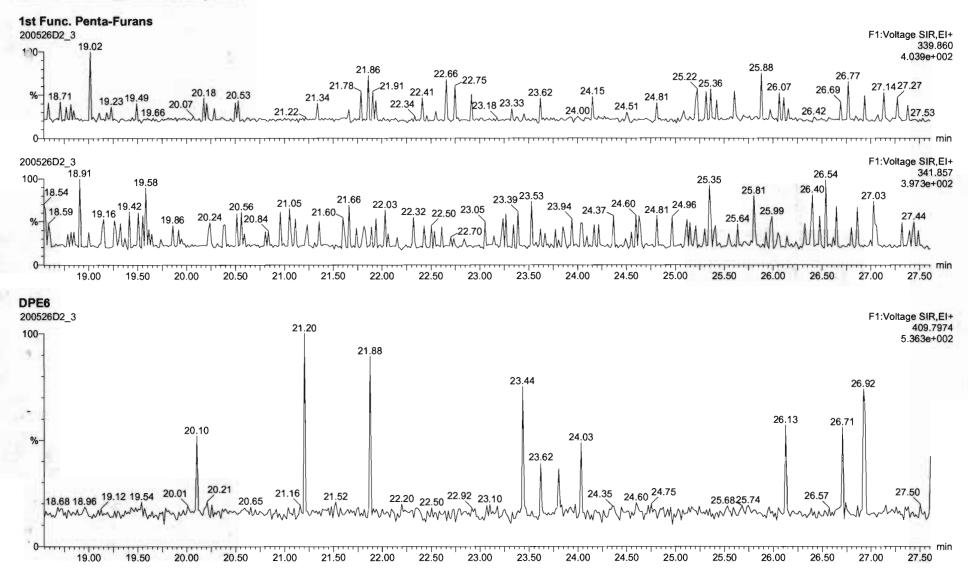
uantify Sam sta Analytica	ple Report al Laboratory	MassLynx 4	.1								Page 18 of
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<b>,3,4,6,7,8-</b> 526D2_3	-	<b>,</b> ,					•				F4:Voltage SIR,
		36.58 1.65e2 2861 √∕ 36.66	36.99	1,2,3,4,6,7,8-H 37.79 7,66e2 12680	1,2,3,4,6	2680 1	38.32 .66e2 3087				423. 1.278e+
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<b>-1,2,3,4,6,</b> 526D2_3	7,8-HpCDD			13C-1,2,3,4,6,7,8-F 37.79 2.98e4 480954							F4:Voltage SIR, 435. 4.813e+
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Quantify Sam Vista Analytica		Page 19 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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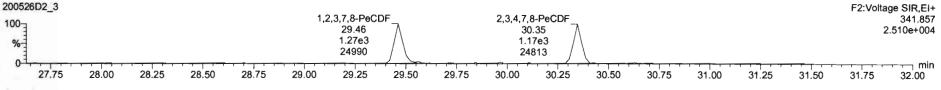


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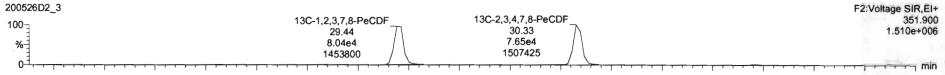
Quantify Sam Vista Analytica		Page 21 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

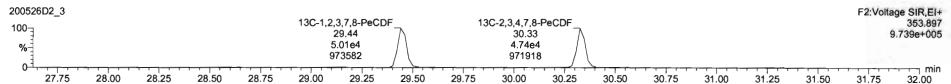


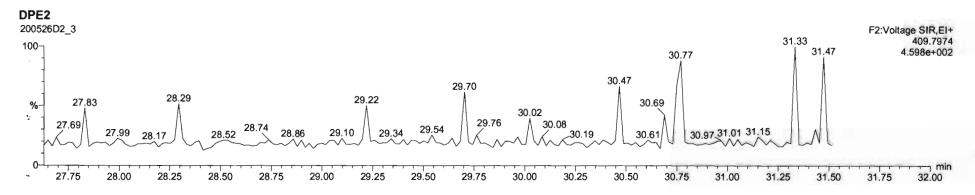
Quantify Sam Vista Analytica		Page 22 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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	D2_3, Date: 26-May-2020, Time: 21:42:35, ID: ST200526D2-2 1613 CS1 20E0705, Description: 1613 CS1 20E0705	F2:Voltage SIR,EI+

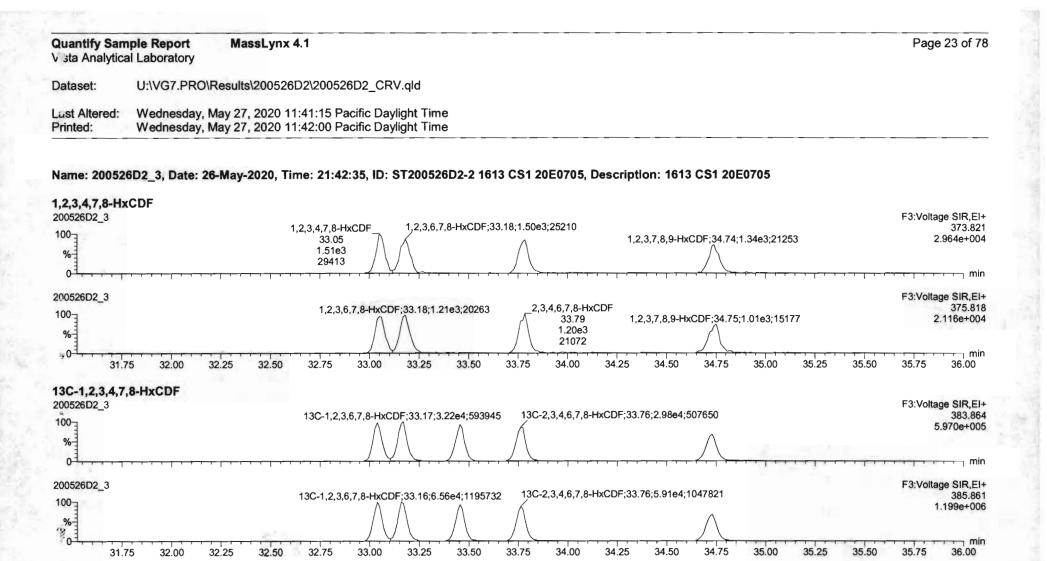




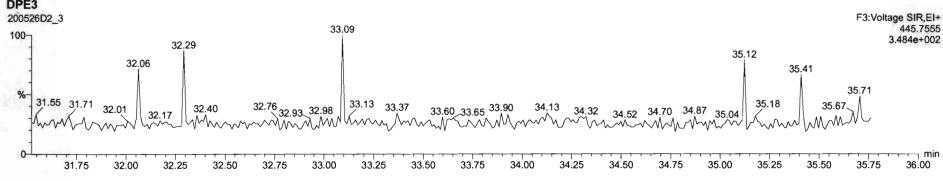




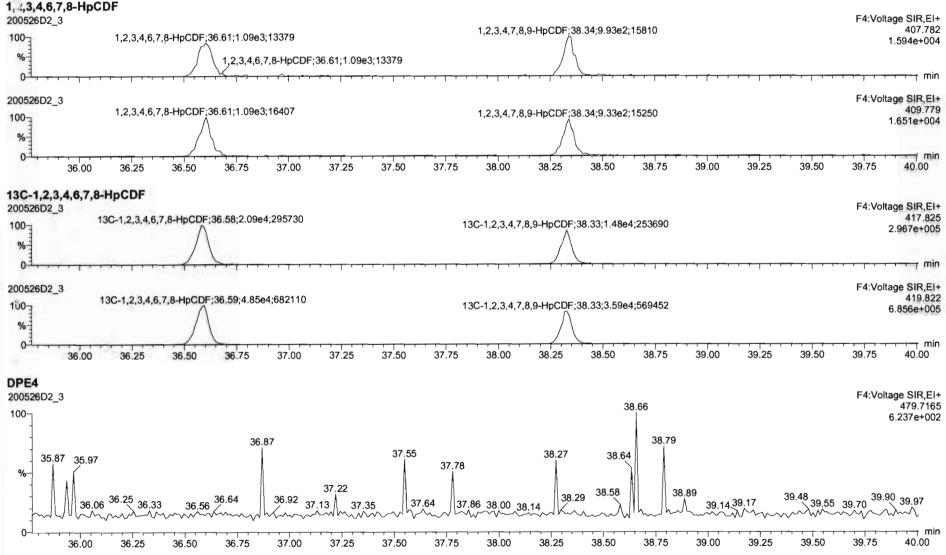




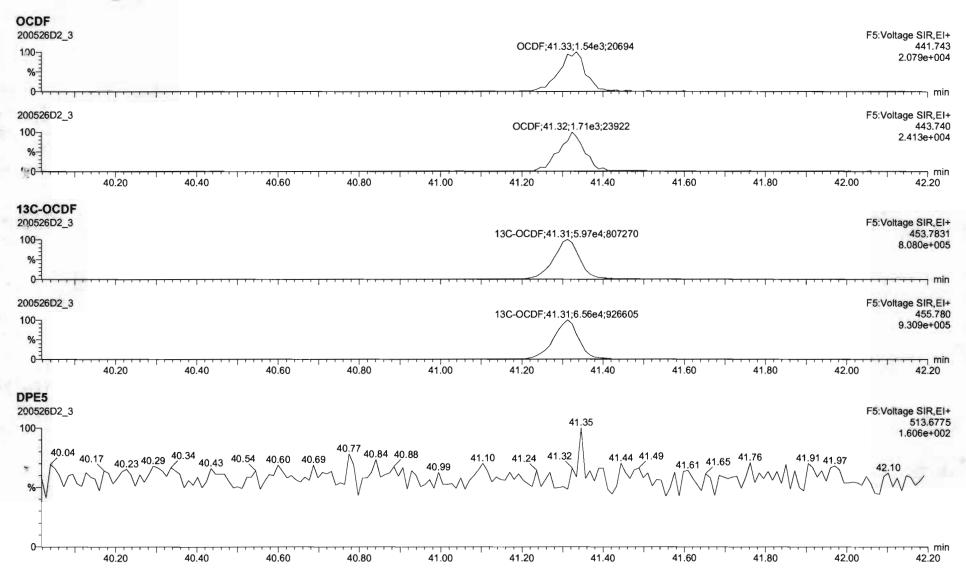




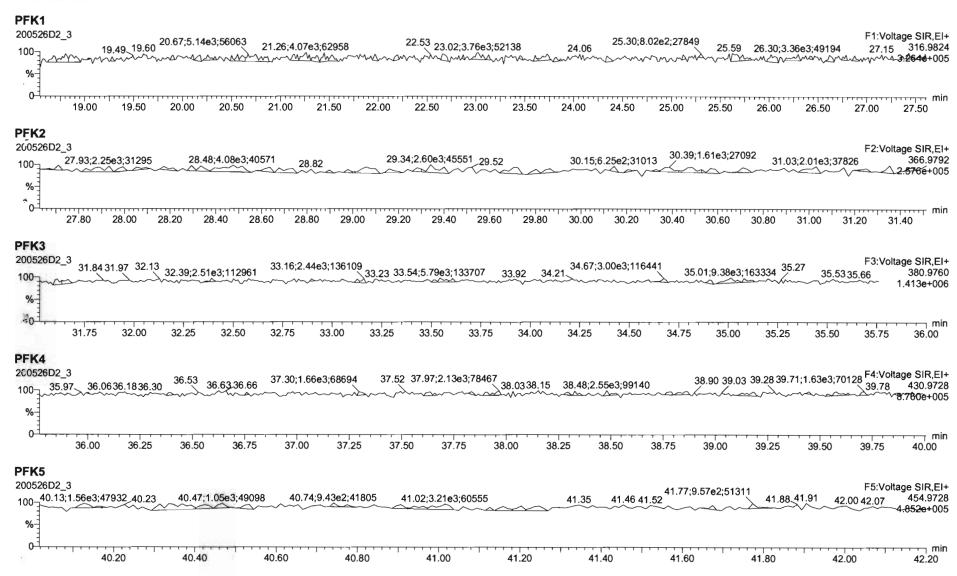
Quantify Sam Vista Analytica		Page 24 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	
Name: 20052	6D2_3, Date: 26-May-2020, Time: 21:42:35, ID: ST200526D2-2 1613 CS1 20E0705, Description: 1613 CS1 20E0705	
Name: 20052	002_3, Date. 20-may-2020, Time. 21.42.33, 1D. 3120032002-2 1013 031 2020703, Description. 1013 001 2020703	



Quantify Sam Vista Analytica		Page 25 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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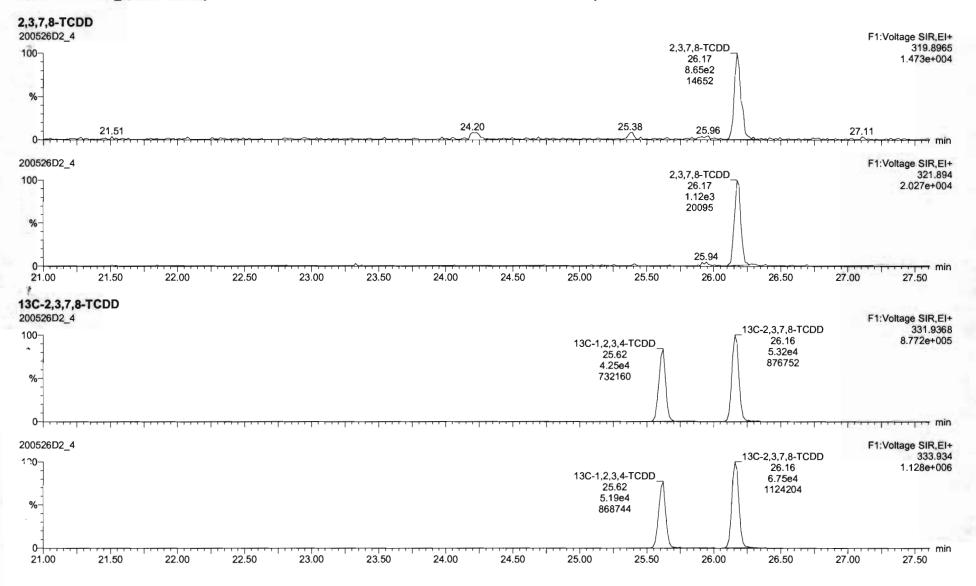


Quantify San Vista Analytica		Page 26 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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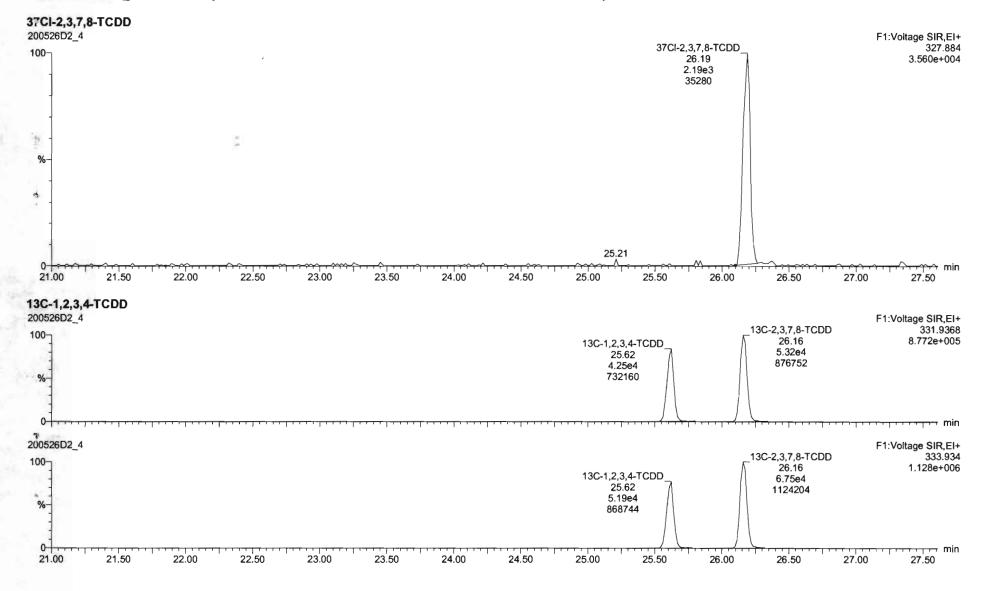


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Quantify Sam Vista Analytica		Page 27 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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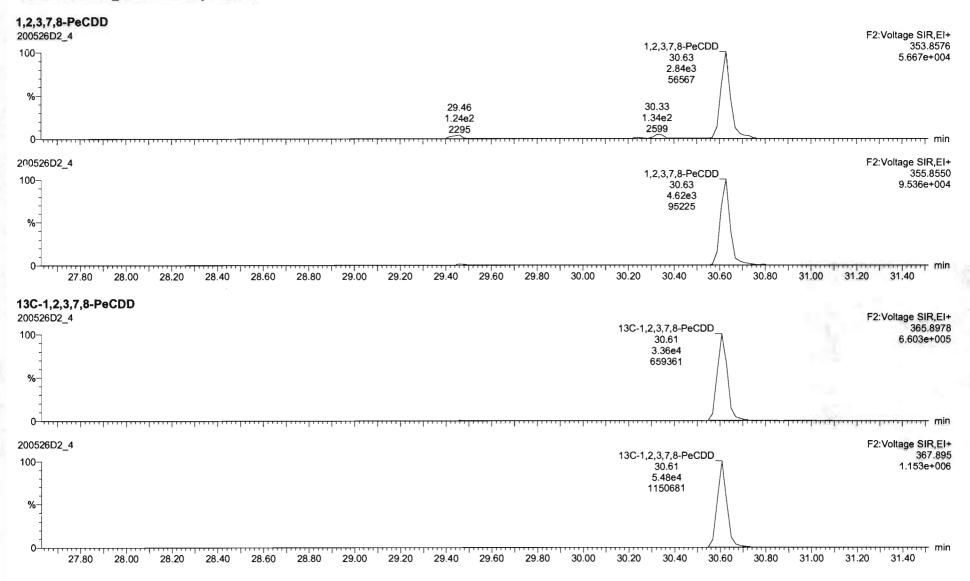


Quantify Sam Vista Analytica		Page 28 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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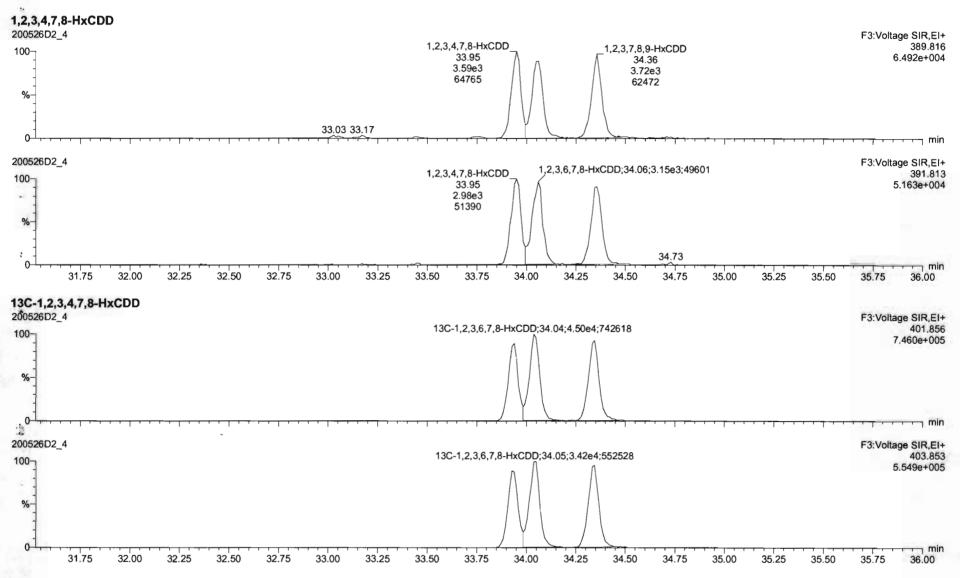


Work Order 2001155

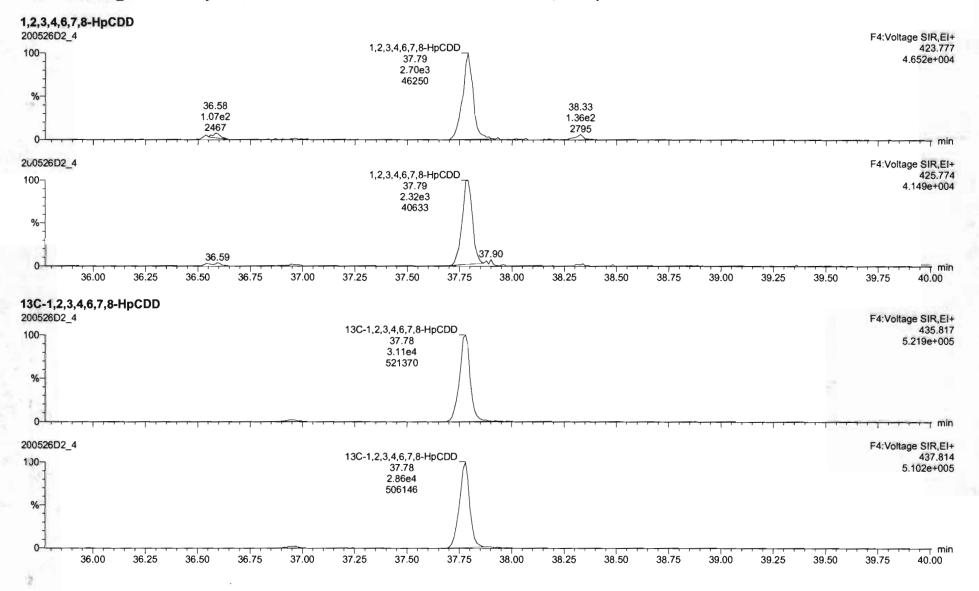
Quantify Sam Vista Analytica		Page 29 of 78
Dataset:	U:\VG7.PR0\Results\200526D2\200526D2_CRV.qld	
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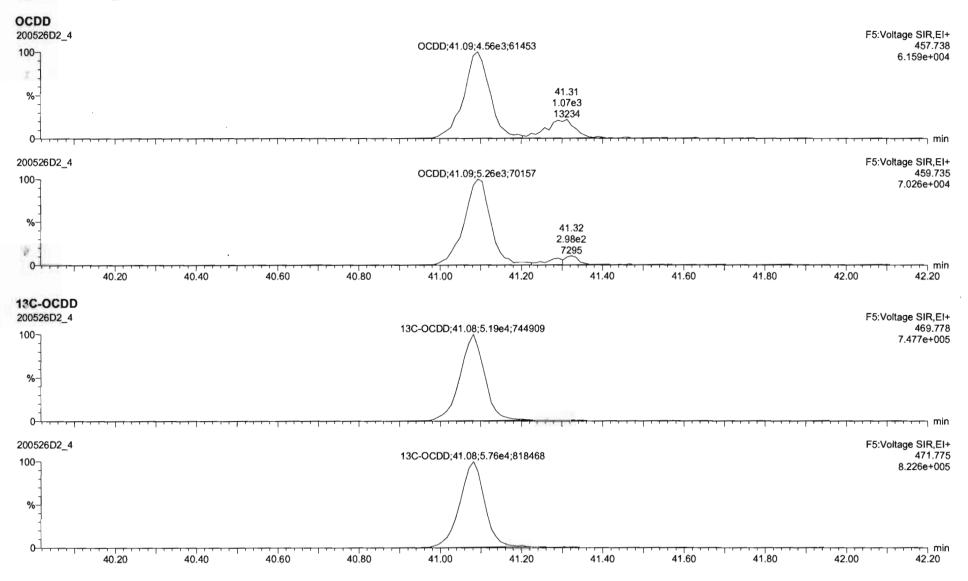
Quantify Sam Vista Analytica		Page 30 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	



Quantify Sam Vista Analytica		Page 31 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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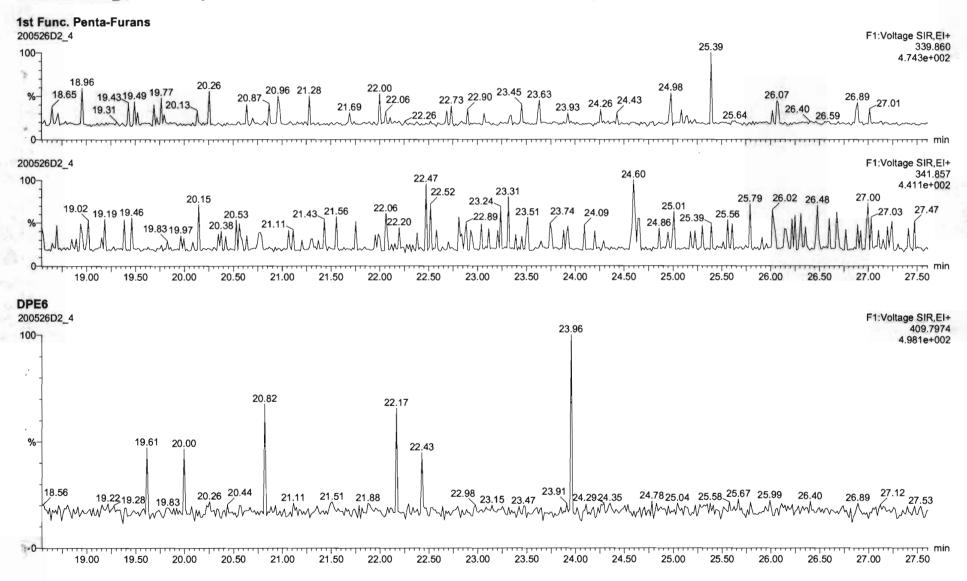


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Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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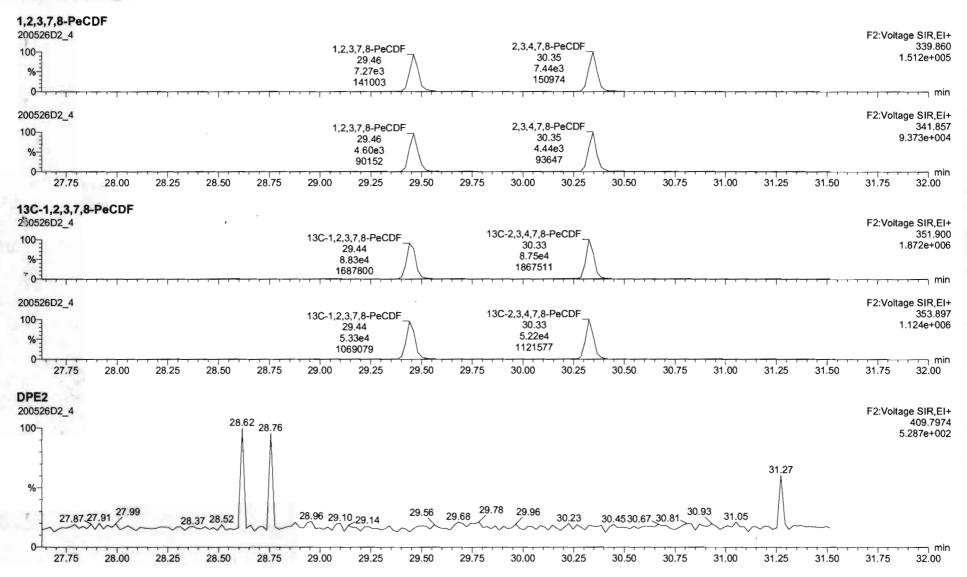


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<b>C-2,3,7,8-T</b> 0526D2_4 0 0 0 0 0 0 0 0 0 0 0 2 6 0 2 6 0 2 4	•••••			13C-1,2,3,	,4-TCDF;24.22;7.5 	5e4;1123690	13C-2,3,7,8- 25.39 7.95e4 1355442 13C-2,3,7,8- 25.39 1.03e5 1755983	CDF	+,++++++++++++++++++++++++++++++++++++		27.00 27.50 F1:Voltage SIR 315.9 1.363e+ F1:Voltage SIR 317 1.764e+

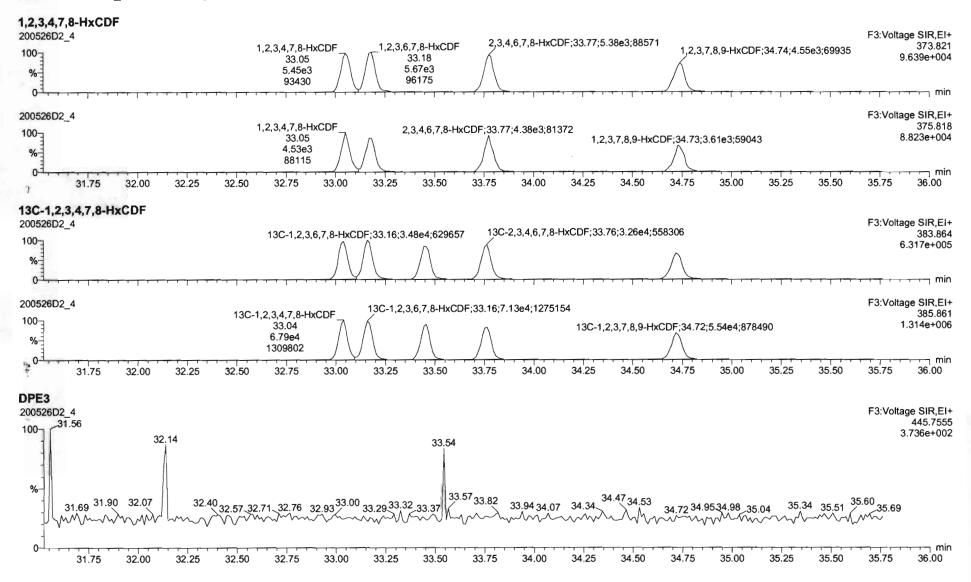
Quantify San Vista Analytica		Page 34 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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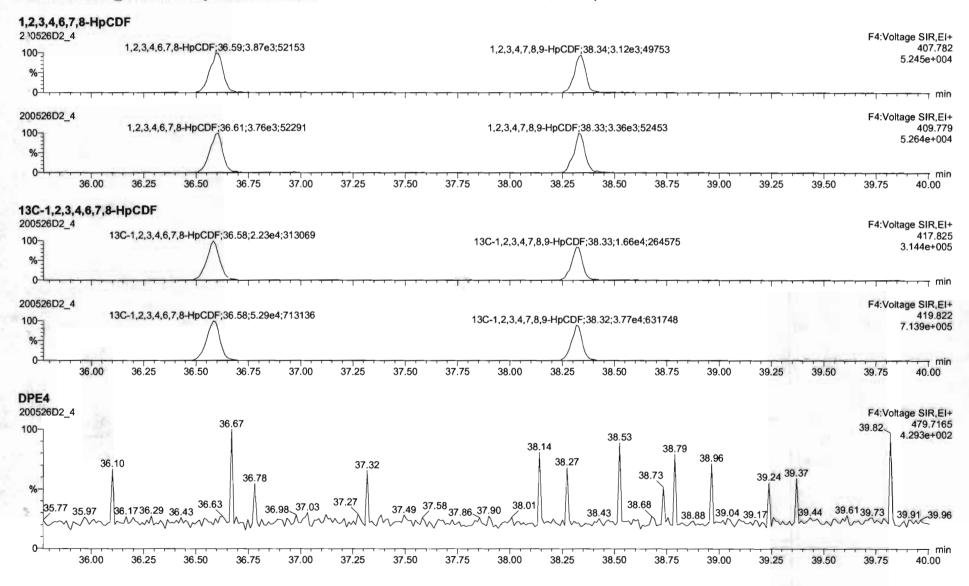
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Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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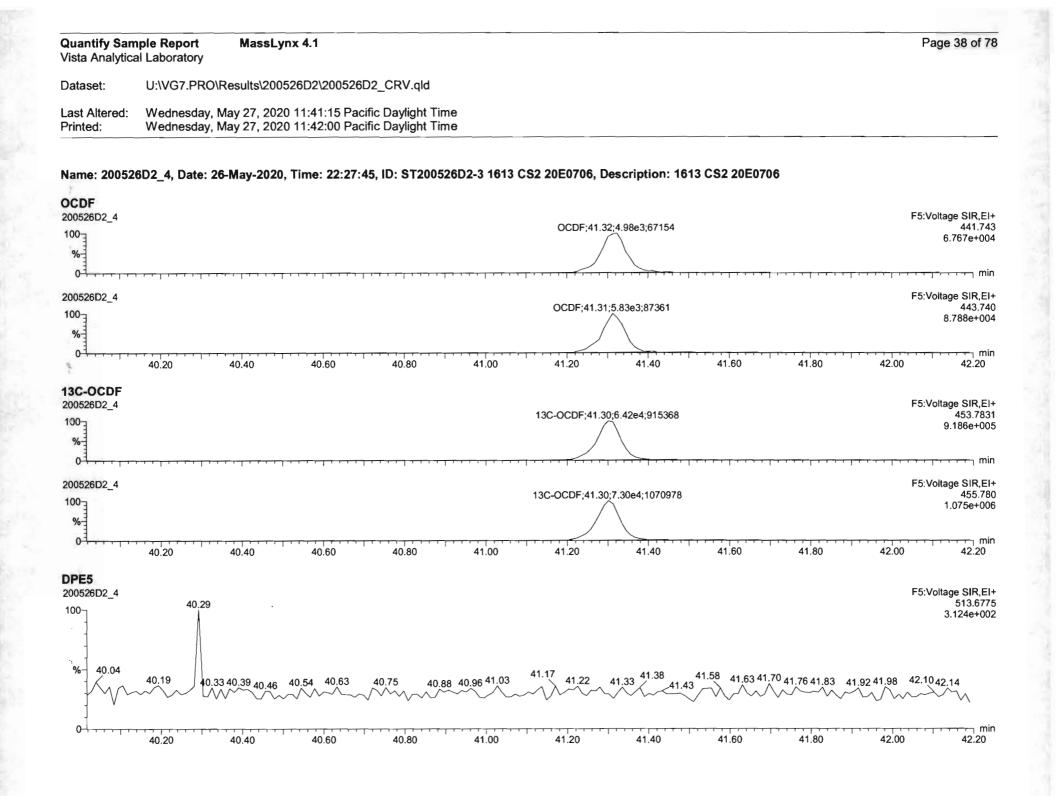


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Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	





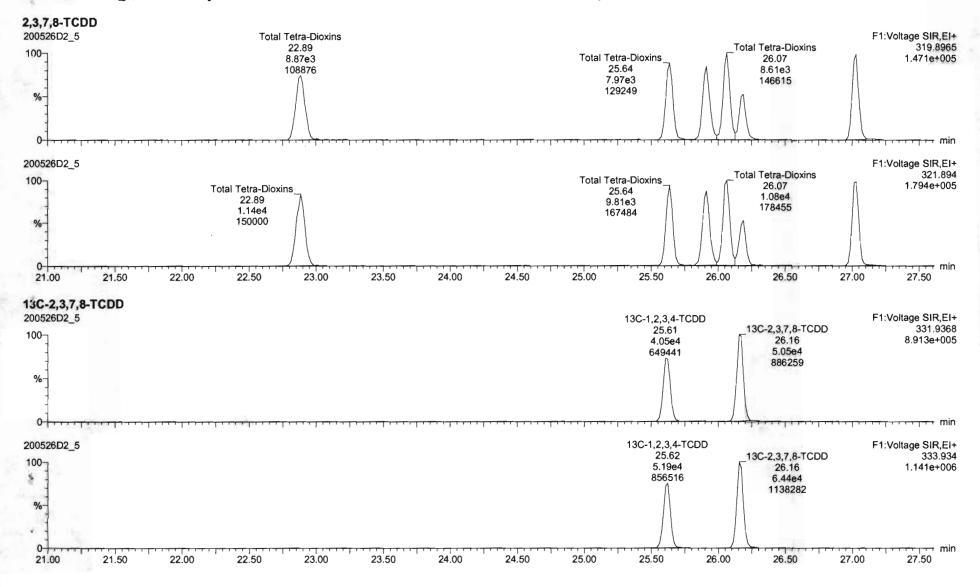
# Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory

Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

Last Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

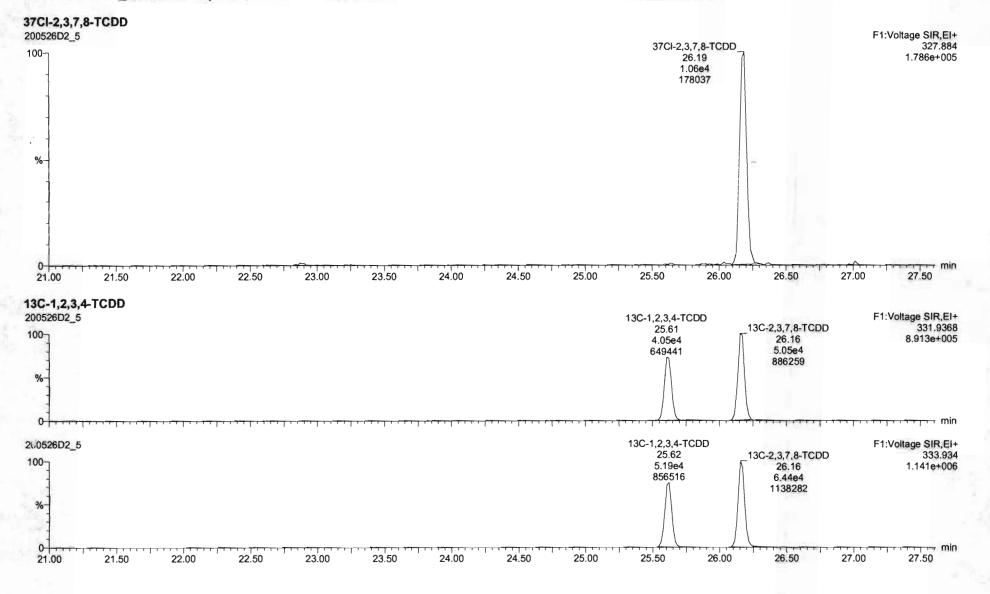
PFK1 200526D2_4 100_18_91_19.43;2.28e3;3870	20.88;9.55e2;43084	21.60:2.97e3:58988 22.12;	1.39e3;46621 23.18	24.69;2.50e3;55819	25.38;5.39e3;718	25.94	F1:Voltage SIR,EI+
100 18.91 19.43;2.28e3;387( %	- managamanad		Mar Mar Mar Mar	margan	25.38;5.39e3;7188 £WW~~~ <u>~</u> W	non formant 2	7.04 27.15 316.9824 2087e+005
0 <del>4,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	20.00 20.50 21.0	0 21.50 22.00 2	22.50 23.00 23.50	24.00 24.50	25.00 25.50	26.00 26.50	27.00 27.50 min
PFK2 200526D2_4							F2:Voltage SIR,EI+
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0 <sup>-1</sup>	28.20 28.40 28.60	28.80 29.00 29.20	29.40 29.60 29.	80 30.00 30.20	30.40 30.60	30.80 31.00 3	31.20 31.40
PFK3 200526D2_4 10032.00;8.40e3;160 %-	32.38 32.49 32.58	32.92 33.00 33.31;4.84e3;11	8954 33.61 33.98	34.13 34.28 <sup>34.84;3.9</sup>	0e3;115598 35.11;4,	35e3;87298 35.60	F3:Voltage SIR,EI+ 380.9760 1.332e+006
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PFK4 200526D2_4 10035.9936.07 %	36.42 36.58 36.87;1.67e3;	93070 37.26 37.41 37.	57 37.72 37.93 3	8.24 38.49;1.21e3;731;	29 38.72 38.93 39.00	3 39.25 39.57;4.52e3	F4:Voltage SIR,EI+ 9;91291 430.9728 
0 <sup>1</sup> E			<u>, , , , , , , , , , , , , , , , , , , </u>			<del></del>	······································
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PFK5 200526D2_4 10040.09_40.25;3.89e2;35:	353 40.43 40.53 40.63;2.2	6e3;55227 40.97;3.10e3;5393	35 41.14;8.53e2;46271	41.24 41.40 41.55	;9.31e2;63483 41	.75 41.88 41.95 41.0	F5:Voltage SIR,EI+ 99 42,06 454.9728 42,714e+005
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Page 40 of 78	78

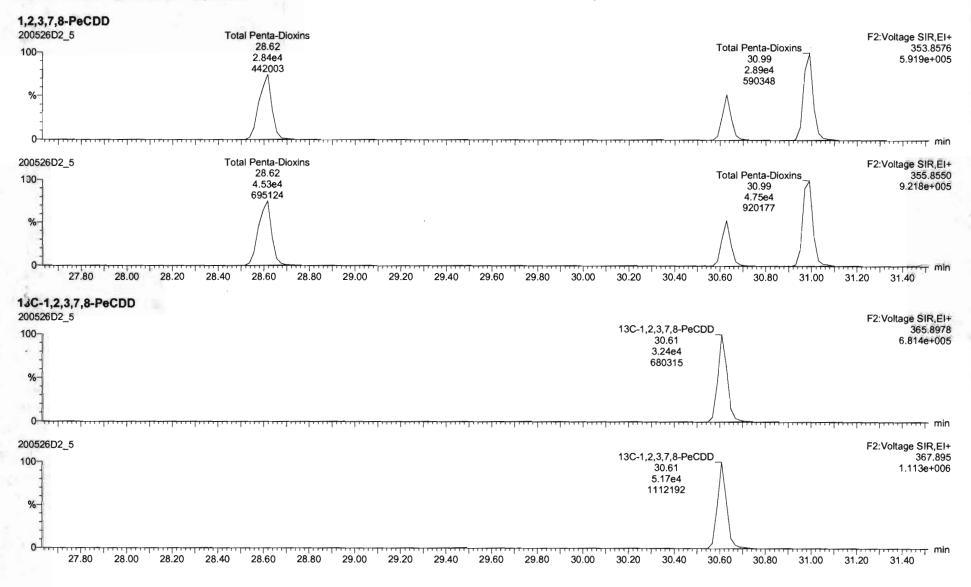


Work Order 2001155

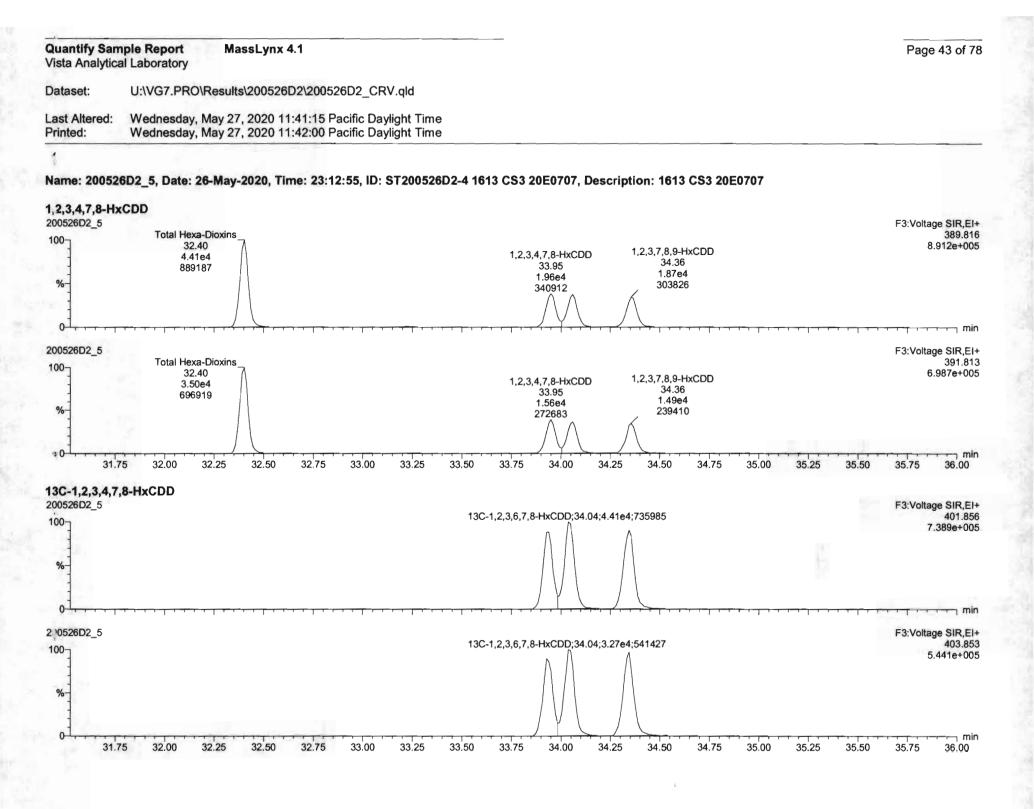
Quantify Sam Vista Analytica		Page 41 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	



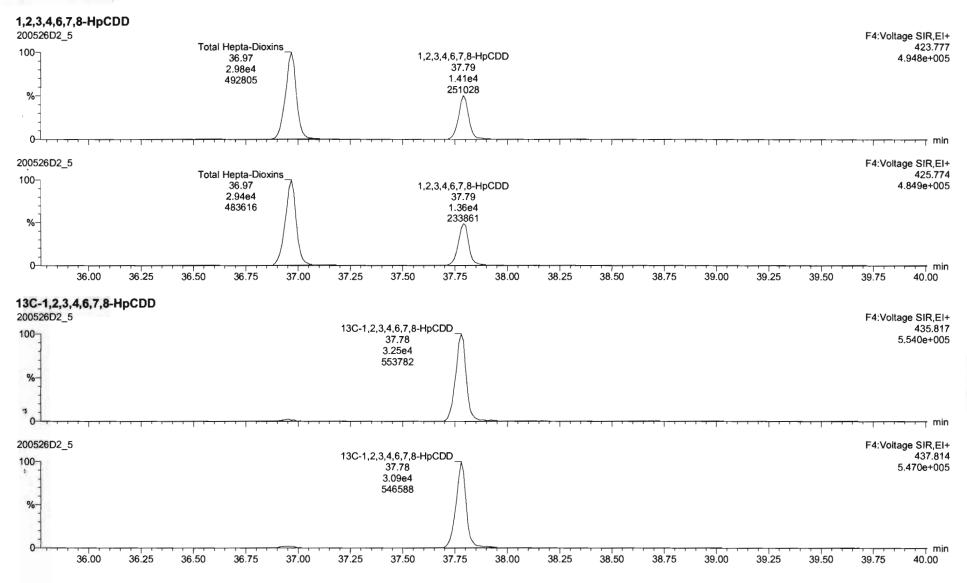
Quantify San Vista Analytica		Page 42 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	



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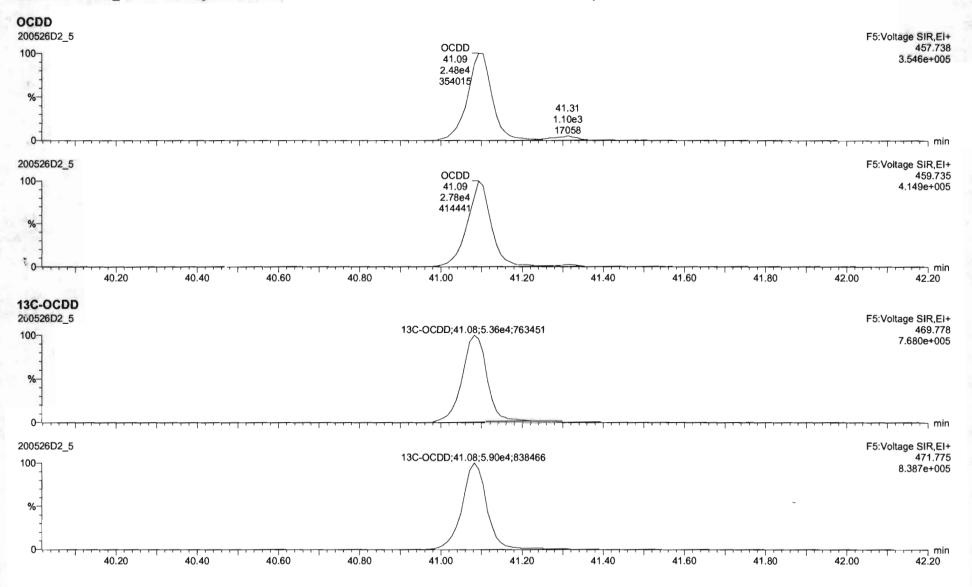


Quantify Sam Vista Analytica		Page 44 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

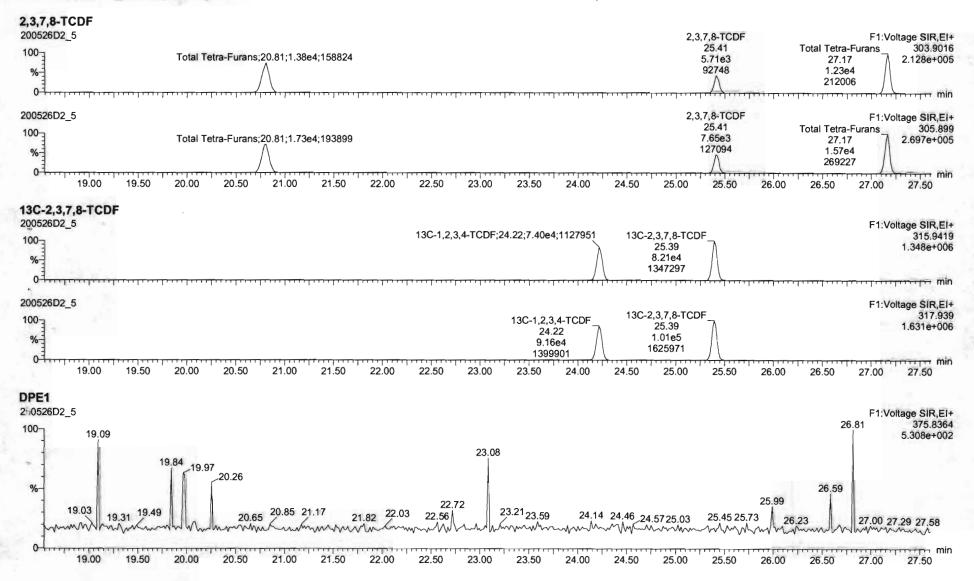


#### Work Order 2001155

Quantify Sam Vista Analytica		Page 45 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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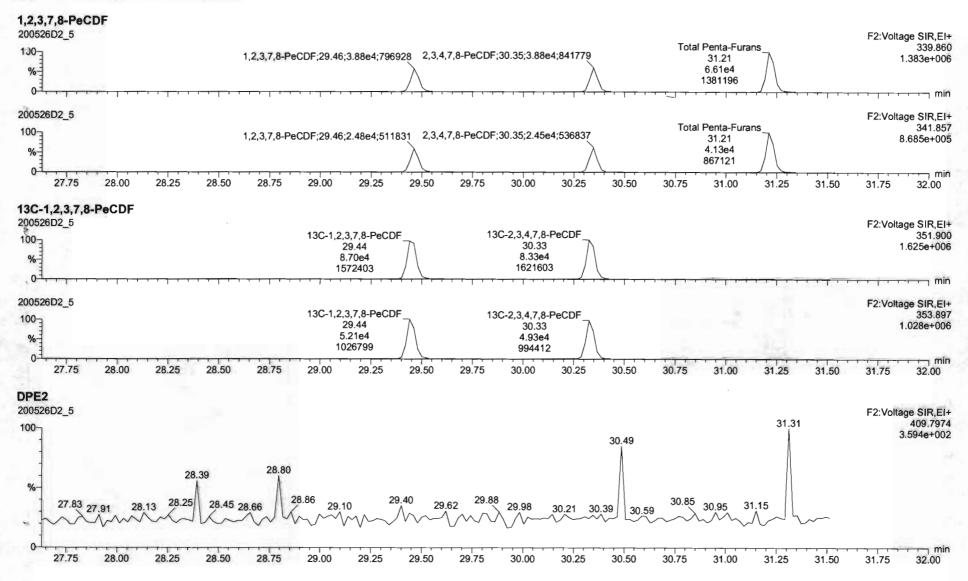
Quantify San Vista Analytica		Page 46 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
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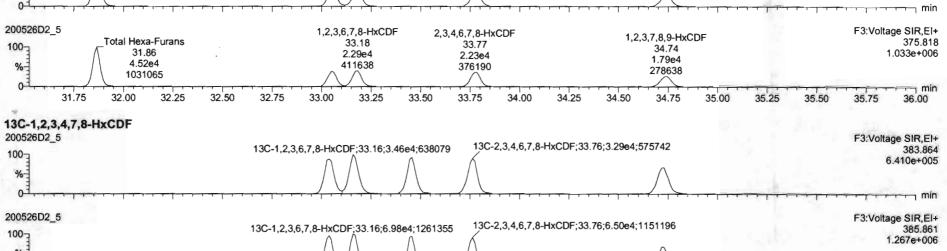
Last Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time Name: 200526D2_5, Date: 26-May-2020, Time: 23:12:55, ID: ST200526D2-4 1613 CS3 20E0707, Description: 1613 CS3 20E0707 1st Func. Penta-Furans 200526D2_5 12 200526D2_5 12 12 12 12 12 12 12 12 12 12	Quantify Sample Report         MassLynx 4.1           Vista Analytical Laboratory         MassLynx 4.1	Page 4
Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time Name: 20052602_5, Date: 26-May-2020, Time: 23:12:55, ID: ST20052602-4 1613 CS3 20E0707, Description: 1613 CS3 20E0707 1st Func. Penta-Furans 21:12 21:12 21:12 21:12 21:12 21:12 21:12 21:12 21:12 21:12 21:12 21:12 21:12 21:12 21:12 21:1 21:12 21:12 21:1	and the second se	
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DPE6 200526D2_5 100 20.64 19.67 18.93 19.67 18.93 19.67 18.93 19.67 21.8522.11 23.53 24.48 25.01 24.63 25.38 25.85 26.03 26.55 27.00 27.21 23.53 25.01 25.01 25.01 25.01 25.38 25.85 26.03 26.55 27.00 27.22 27		
$200526D2_{2}5$ $100 - 20.64 + 26.33 + 21.8522.11 + 23.53 + 25.85 + 26.03 + 26.55 + 27.00 + 27.24 + 48 + 25.01 + 25.0$	August 1	23.00 23.30 24.00 24.30 23.00 23.30 26.00 26.50 27.00 27
$\begin{array}{c} 27.14 & 4 \\ 4.94 \\ 26.33 \\ 19.67 \\ 18.93 \\ 18.86 & 19.00 \\ 19.49 & 19.86 \\ 19.00 & 19.49 \\ 19.86 \\ 19.00 & 19.49 \\ 19.86 \\ 19.00 & 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 19.00 \\ 19.49 \\ 19.86 \\ 20.78 \\ 20.84 \\ 21.37 \\ 21.78 \\ 22.15 \\ 22.56 \\ 23.19 \\ 23.86 \\ 23.94 \\ 24.20 \\ 24.63 \\ 25.38 \\ 25.85 \\ 26.03 \\ 26.55 \\ 27.00 \\ 10.0$	DPE6 200526D2_5	F1:Voltage
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$\begin{array}{c} 21.8522.11 \\ \hline \\ 18.93 \\ \hline \\ 18.86 \\ \hline \\ 19.00 \\ \hline \\ 19.49 \\ \hline \\ 19.00 \\ 19.49 \\ \hline \\ 19.86 \\ 19.07 \\ 20.33 \\ 20.78_{20.84} \\ 21.37 \\ 21.78 \\ \hline \\ 22.15 \\ 22.56 \\ \hline \\ 22.96 \\ 23.19 \\ \hline \\ 23.86 \\ 23.94 \\ 24.63 \\ \hline \\ 25.38 \\ 25.85 \\ 26.03 \\ 26.55 \\ 27.00 \\ \hline \\ \\ 27.26 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		26.33
<sup>5</sup> % 18.93 18.86 19.00 19.49 19.86 19.97 <sup>20.33</sup> 20.78 <sub>20.84</sub> 21.37 <sup>21.78</sup> 22.15 22.56 <sup>22.96</sup> 23.19 18.86 19.00 19.49 19.86 19.97 <sup>20.33</sup> 20.78 <sub>20.84</sub> 21.37 <sup>21.78</sup> 22.15 22.56 <sup>23.94</sup> 24.20 24.63 25.38 25.85 26.03 26.55 27.00 27.26 18.86 19.00 19.49 19.86 19.97 <sup>20.33</sup> 20.78 <sub>20.84</sub> 21.37 <sup>21.78</sup> 22.15 22.56 23.19 23.86 <sup>23.94</sup> 24.20 24.63 25.38 25.85 26.03 26.55 27.00 27.26 18.90 19.49 19.86 19.97 <sup>20.33</sup> 20.78 <sub>20.84</sub> 21.37 <sup>21.78</sup> 22.15 22.56 23.19 23.86 <sup>23.94</sup> 24.20 24.63 25.38 25.85 26.03 26.55 27.00 47.26 18.90 19.49 19.90 19.49 19.86 19.97 <sup>20.33</sup> 20.78 <sub>20.84</sub> 21.37 <sup>21.78</sup> 22.15 22.56 23.19 23.86 <sup>23.94</sup> 24.20 24.63 25.38 25.85 26.03 26.55 27.00 47.26 18.90 19.49 19.90 19.49 19.90 19.49 19.90 19.49 19.90 19	19.67 21.8522.11	23.53
18.86       19.00       19.49       19.86       19.97       20.33       20.7820.84       21.37       21.78       22.15       22.96       23.19       23.86       23.94       24.63       25.38       25.38       25.85       26.03       26.55       27.00       27.26         0		27.11
18.86       19.00       19.49       19.86       19.97       20.33       20.7820.84       21.37       21.78       22.15       22.96       23.19       23.86       23.94       24.63       25.38       25.85       26.03       26.55       27.00       27.26         18.86       19.00       19.49       19.86       19.97       20.33       20.7820.84       21.37       21.78       22.15       22.96       23.19       23.86       24.63       25.38       25.35       26.03       26.55       27.00       27.26         0 <td>·<sub>%</sub>18.93</td> <td>25.01</td>	· <sub>%</sub> 18.93	25.01
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Work Order 2001155 Page 397 of	Work Order 2001155	

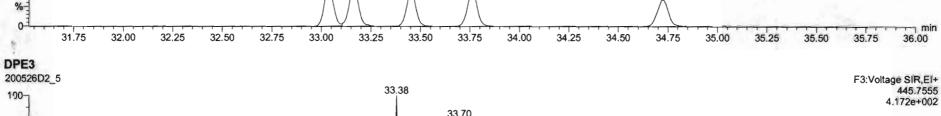
	ample Report tical Laboratory	MassLynx 4.1	
Dataset:	U:\VG7.PRO\I	\Results\200526D2\200526D2_CRV.qld	

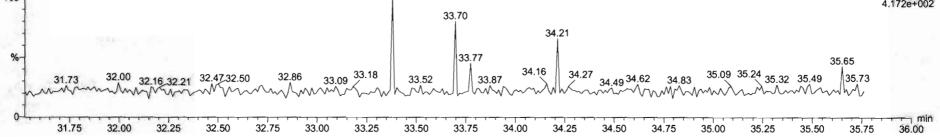
Last Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time



Vista Analytica	al Laboratory MassLynx 4	l.1			Page 49 of 78
Dataset:	U:\VG7.PRO\Results\290526E	02\200526D2_CRV.qld			
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Name: 20052	6D2_5, Date: 26-May-2020, Tin	ne: 23:12:55, ID: ST200526D2	-4 1613 CS3 20E0707, Desc	cription: 1613 CS3 20E0707	
1,2,3,4,7,8-Hx					F3:Voltage SIR Elt
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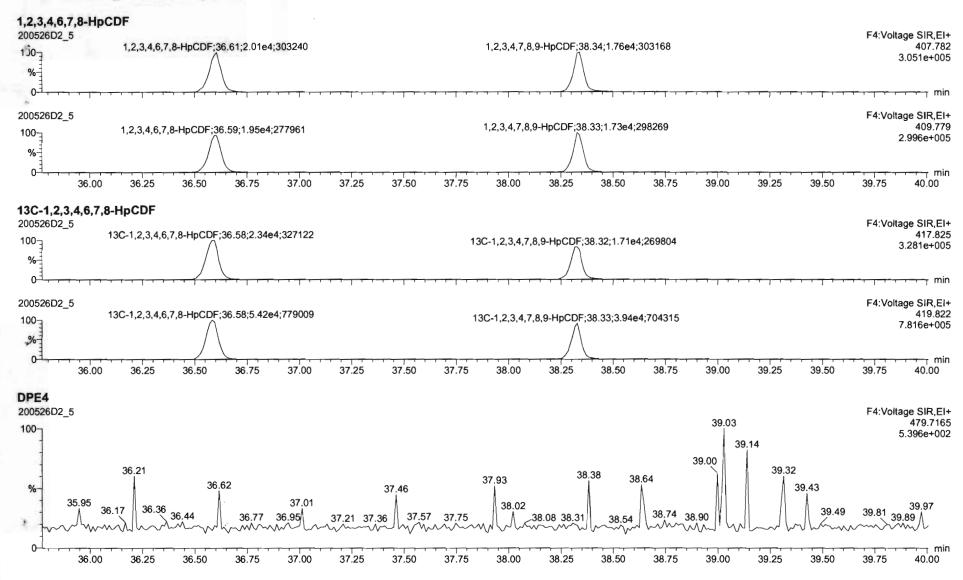




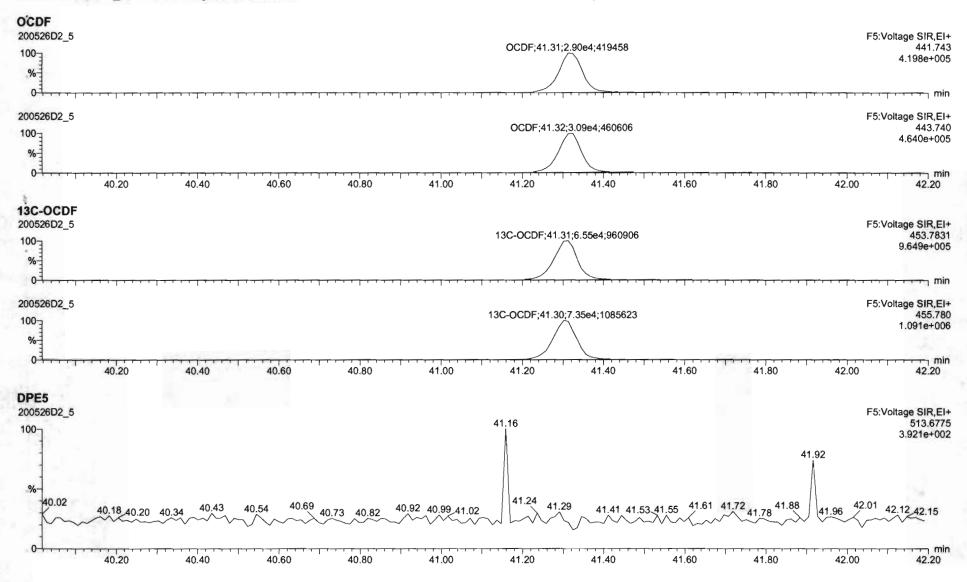
#### Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory

### Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_CRV.qld

Last Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Printed: Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time

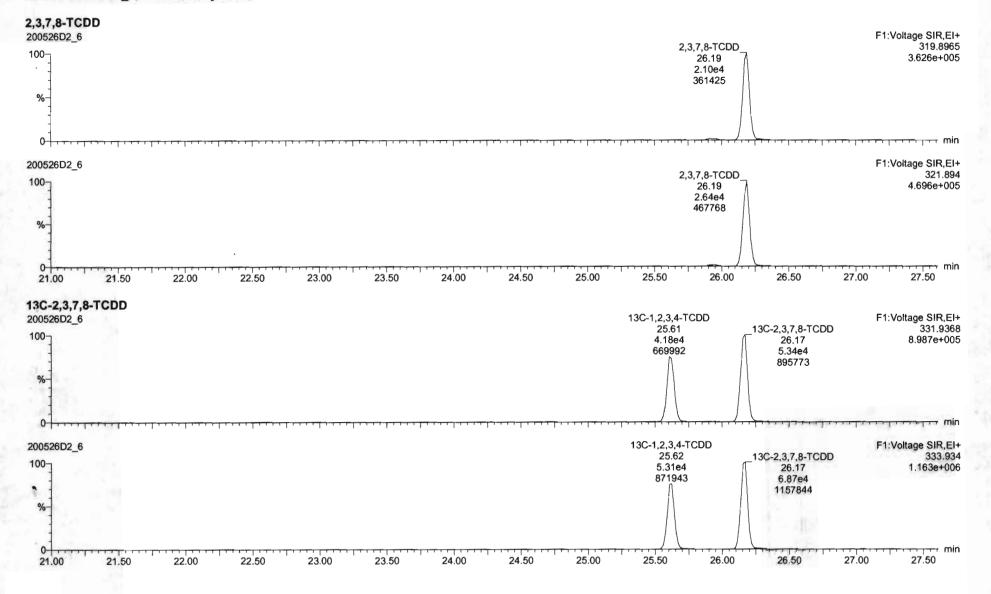


Quantify San Vista Analytica		Page 51 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

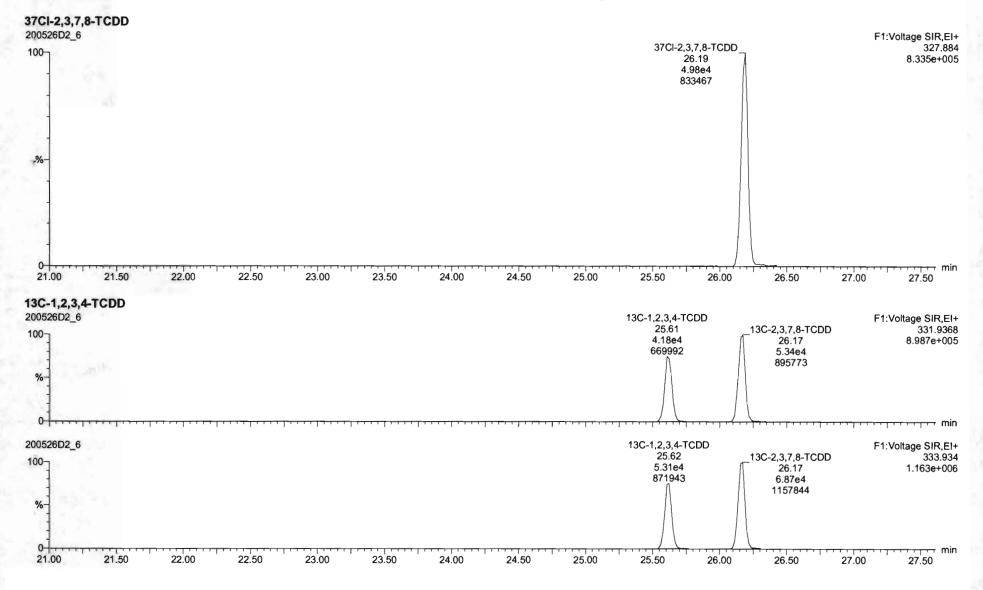


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ataset:	U:\VG7.PRO\	Results\200526D2	200526D2_CRV	.qld								
ast Altered: rinted:		May 27, 2020 11:4 May 27, 2020 11:4										
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m	28.3	;1.71e3;35969 28.7	6;1.97e3;48070 29.0	29.30;1.05e3;38	20.09 20.04 2	9.88;2.97e3;359	48	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1;1.72e3;4426	101	31.19	366.979 2.376e+00
6												
27.80	28.00 28.3	20 28.40 28.60	28.80 29.00	29.20 29.4	40 29.60	29.80 30.0	0 30.20	30.40 30	.60 30.80	31.00		1.40 mi
<b>K3</b> 0526D2_5 0-31.59	32.24;5.3	4e3;117395 32.63	32.89 33.09 33.	35;1.84e3;106678	33.71 33.91	33.99 34.30;2.45	ie3;126573	34.87;5.45e3;	135079.35.08	35.41 35.5	F3:Vol 235.73	tage SIR,EI 380.976 1.302e+00
%						•		_	1			1.3020+00
0 <sup>-1</sup>	5 32.00 3	32.25 32.50	32.75 33.00	33.25 33.50	33.75	34.00 34.2	5 34.50	34.75	35.00 35.2	5 35.50	35.75	
FK4 0526D2_5	36.09 36.39	36.62;6.71e2;61505	37.01 37.24	37.59;2.73e3;12	5614 <sup>38.04</sup>	38.24 38.30	38.37 38.1	5838.80 39.	39.48;8.23e2	;56157	F4:Vol	tage SIR,E 430.972
%					•							0.2900+00
0 <sup>-1</sup>	00 36.25	36.50 36.75	37.00 37.25	37.50 3	7.75 38.00	38.25	38.50	38.75 39.	00 39.25	39.50	39.75	40.00
K5												
0526D2_5	40.20 40.27	40.39 40.48 40.53	40.63 40.84;1.	55e3;51510 40.99	41.08.41.10	41.41;1.96e3;64	454 41.49	41.52	41.74 41	.85 41.87 4		tage SIR,EI 454.972 4.601e+00
%												
0												

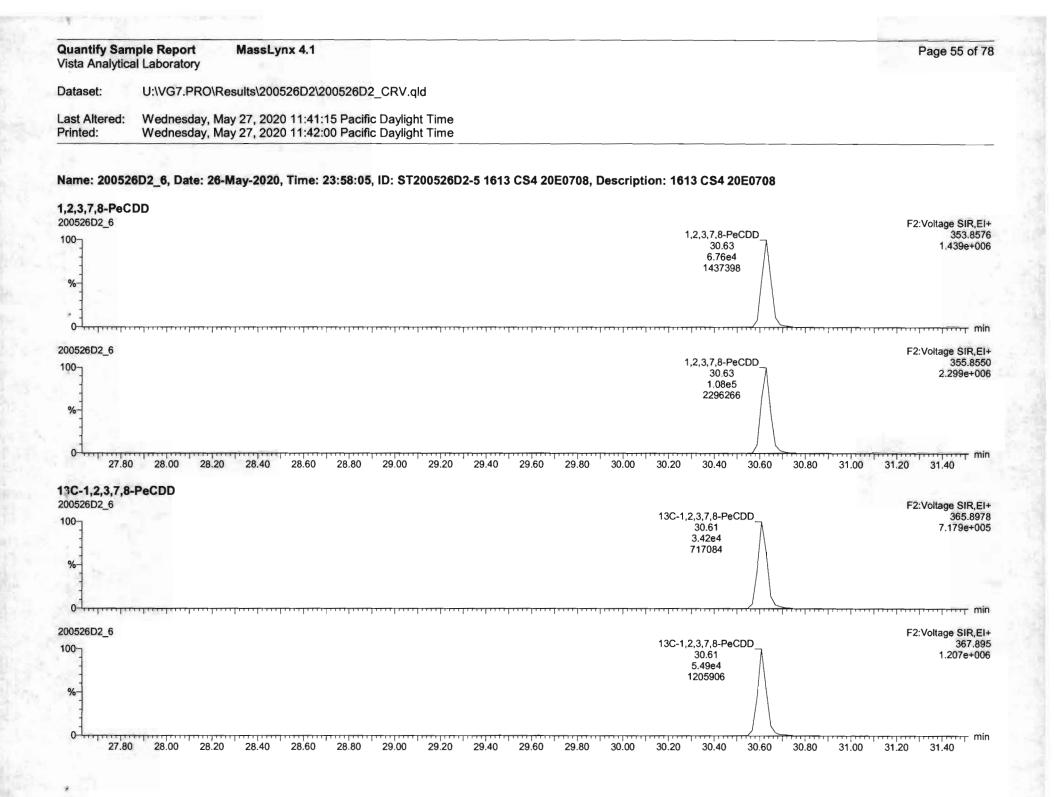
Quantify Sam Vista Analytica		Page 53 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

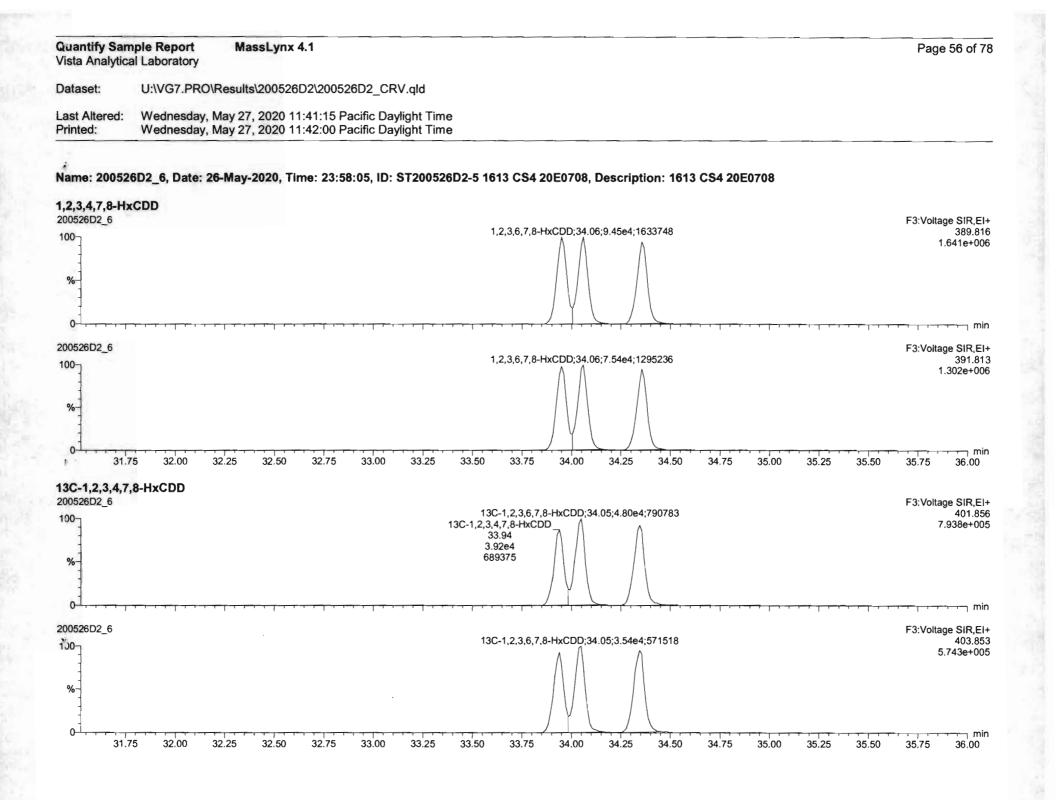


Quantify San Vista Analytica		Page 54 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

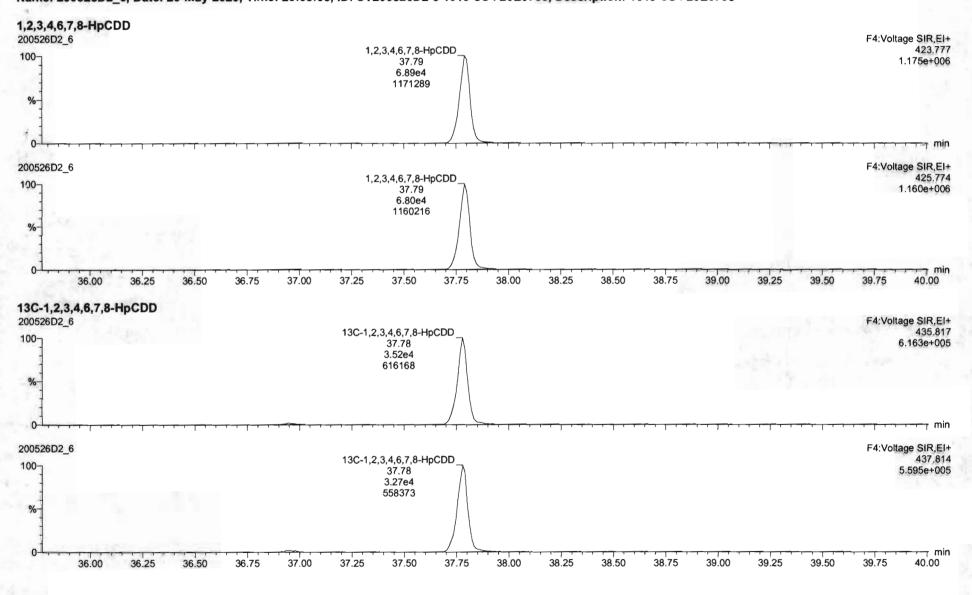


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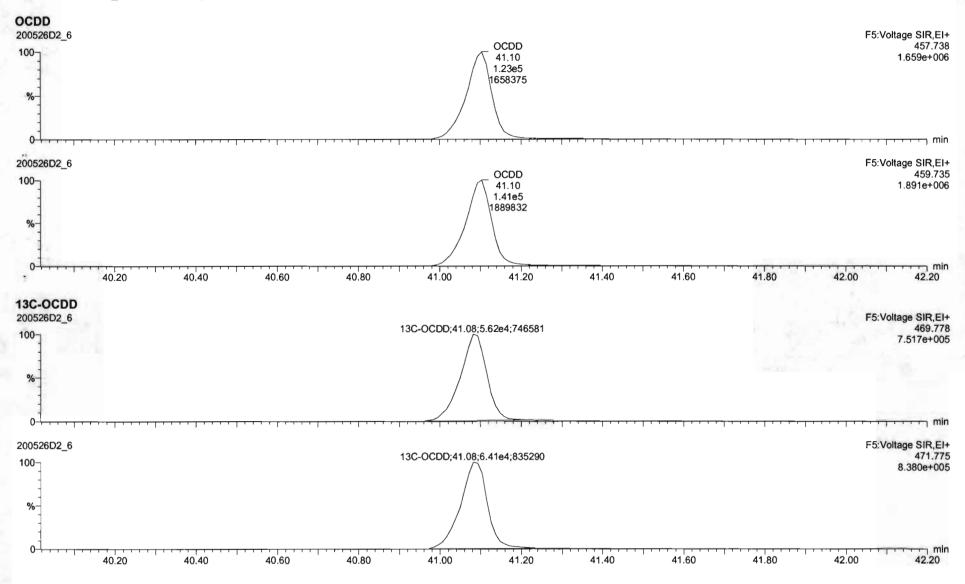




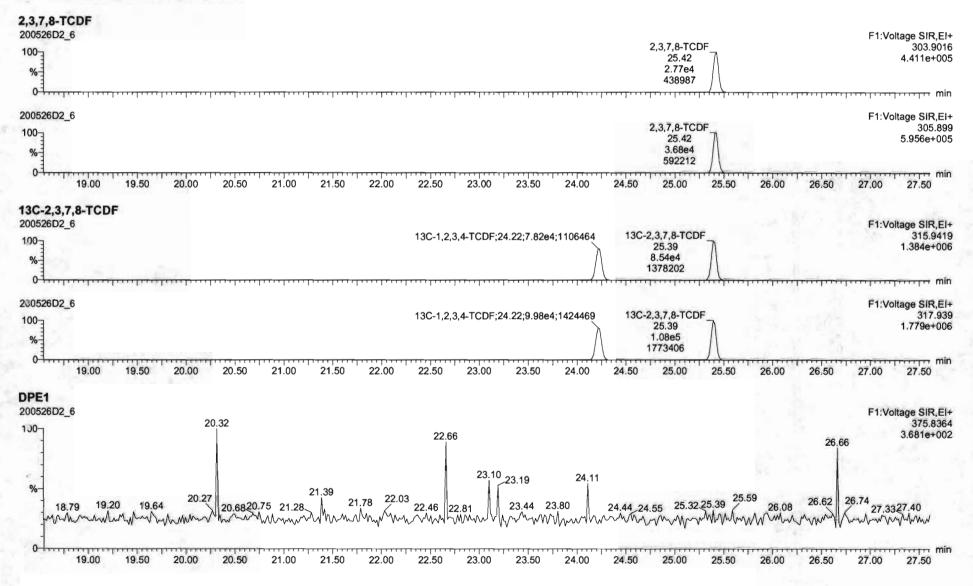
Quantify Sam Vista Analytica		Page 57 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	
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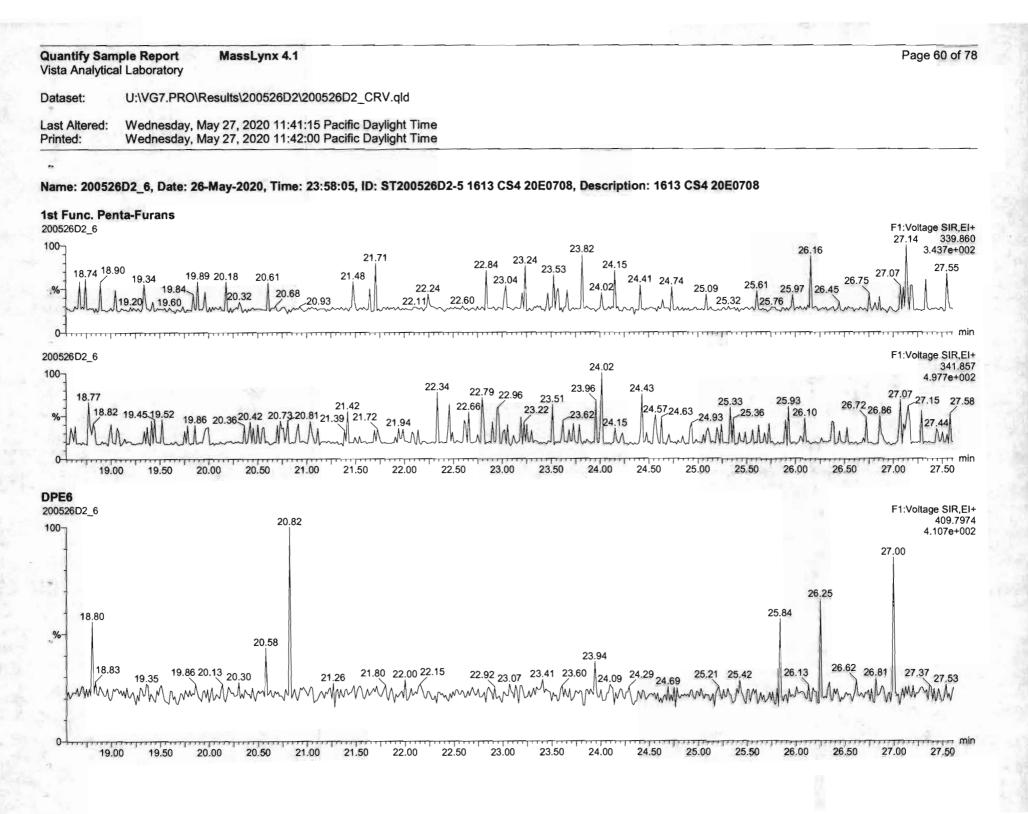


Quantify Sam Vista Analytica		Page 58 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	



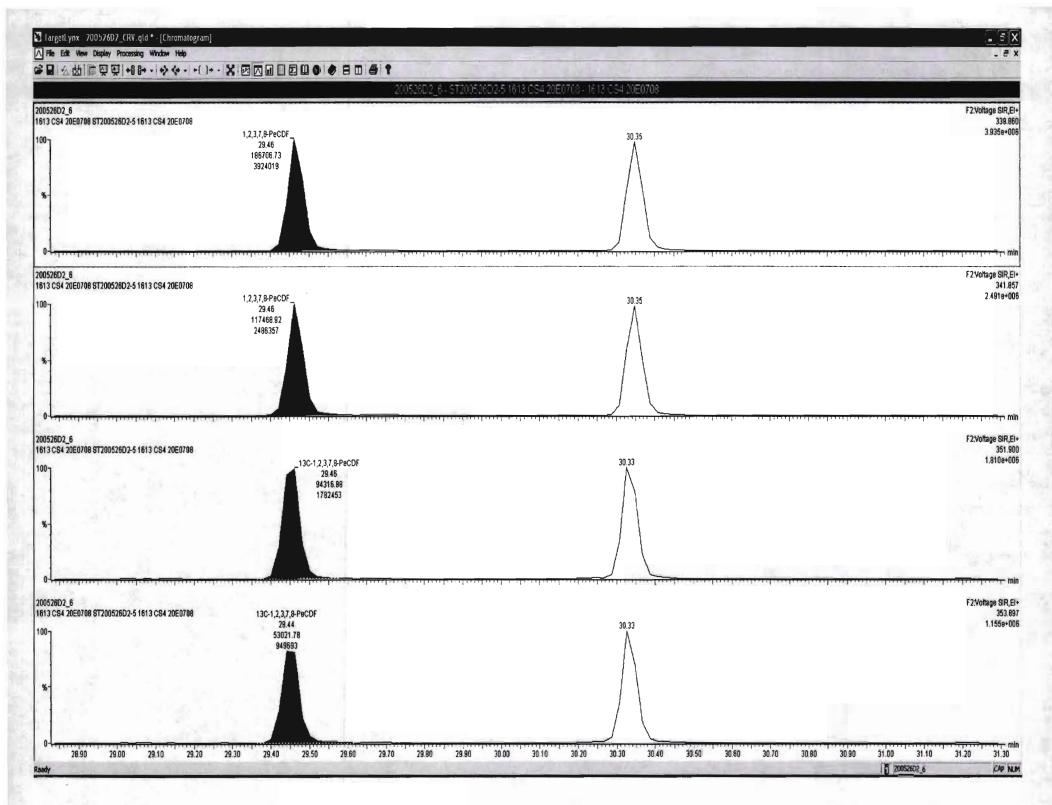
Quantify San Vista Analytica		Page 59 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	



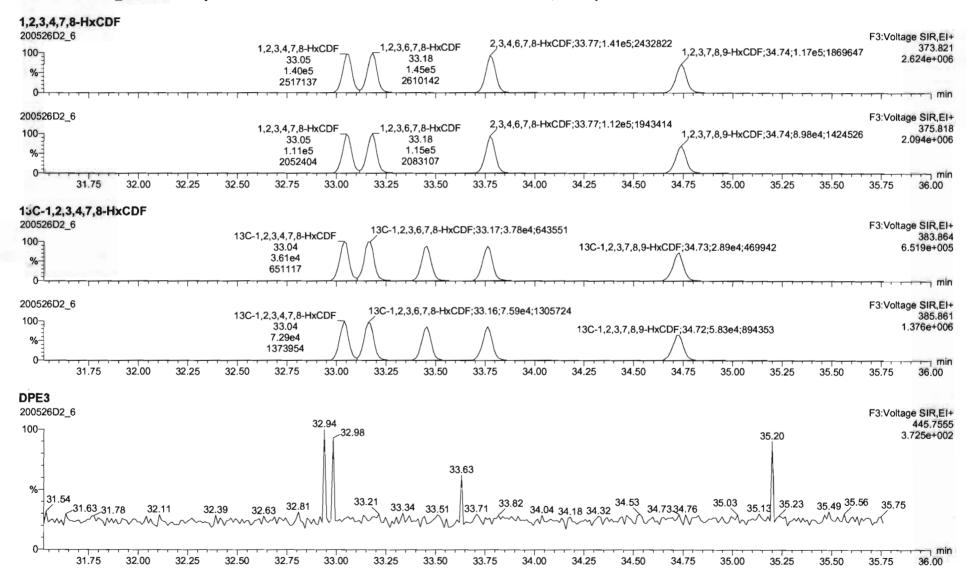


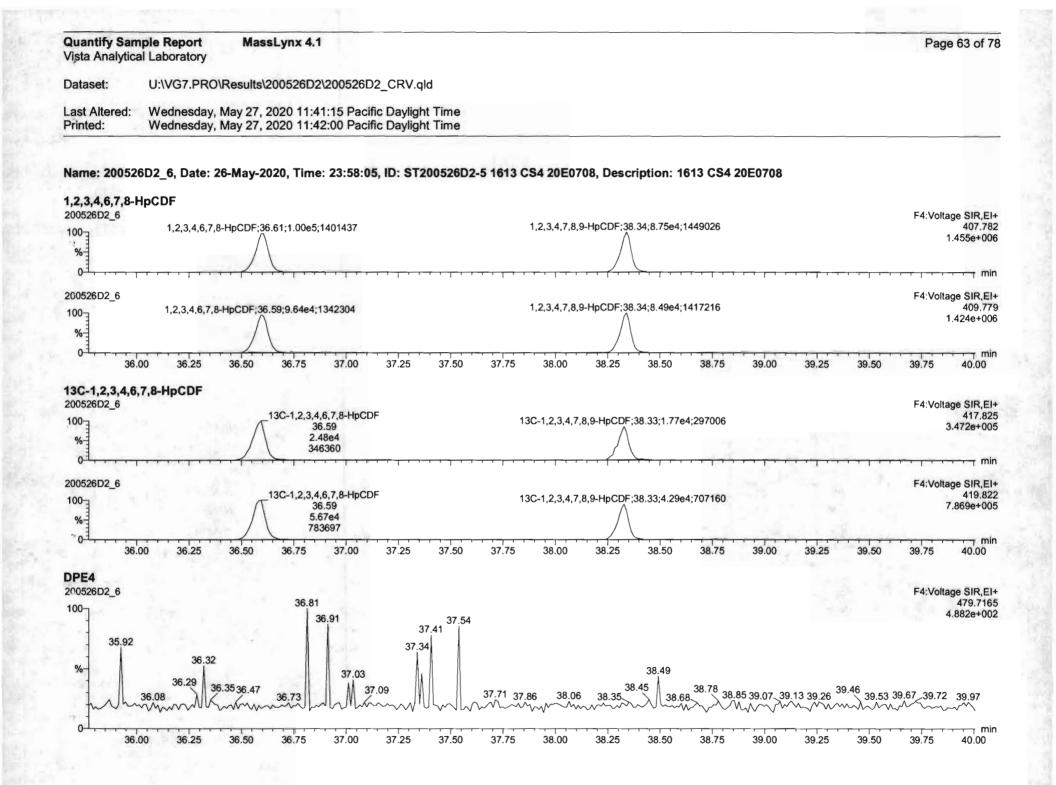
ista Analytica			MassLyr	nx 4.1												Page 61 of 7
ataset:	U:\VG7.PI	RO\Res	ults\2005	26D2\200	0526D2_0	CRV.qld										
ast Altered: rinted:	Wednesda Wednesda	ay, May ay, May	27, 2020 27, 2020	) 11:41:15 ) 11:42:00	5 Pacific [ ) Pacific [	Daylight Ti Daylight Ti	me me									
ame: 200520	6D2_6, Date	e: 26-M	ay-2020,	Time: 23	3:58:05, II	D: ST200	526D2-5	1613 CS4	20E0708	, Descrip	tion: 161	3 CS4 20	E0708			
2,3,7,8-PeC	DF															F2:Voltage SIR,EI
00526D2_6					1,2	2,3,7,8-PeCI 29.46 1.87e5			30 1.8	B-PeCDF .35 4e5	l					339.86 3.935e+00
0	<del> </del>	<del>,</del> ,	• • • • • • •	<del></del>		3924019			383			<del></del> . <del></del>	<del>~</del> .	-1		-, -, -, -, -, mi
00526D2_6					1,2	2,3,7,8-PeCl 29.46 1.17e5 2486357			30 1.1	8-PeCDF .35 6e5 8833	١					F2:Voltage SIR,EI 341.85 2.491e+00
27.75	28.00	28.25	28.50	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75 32.00
8 <b>C-1,2,3,7,8</b> - 00526D2_6	-PeCDF		13C-1,	,2,3,7,8-Pe(	CDF;29.46;9	9.60e4;1791	023	13	3C-2,3,4,7,8 30.33 8.95e4 180711	• 7	<u> </u>					F2:Voltage SIR,EI 351.90 1.810e+00
0 <sup>-1</sup>	<del>╶╷╺╷╵</del> ╷╺┑╸╷		13C-1	,2,3,7,8-Pe	CDF;29.44;	5.30e4;9494	62	13	3C-2,3,4,7,8 30.33		╶ <del>┑╸</del> ╶╴╸	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>			F2:Voltage SIR,EI 353.89 1,155e+00
%							$\bigwedge$		5.45e4 115199	\$ /\						
27.75	28.00	28.25	28.50	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75 32.00
PE2 00526D2_6						29,22										F2:Voltage SIR,EI 409.797
	28.	17				2	9,40									4.063e+00
%-	/\						A						31.05			

----- min 32.00 0 27.75 29.75 29.25 30.50 31.75 28.00 29.00 29.50 31.00 28.25 31.25 28.50 28.75 30.00 30.25 30.75 31.50

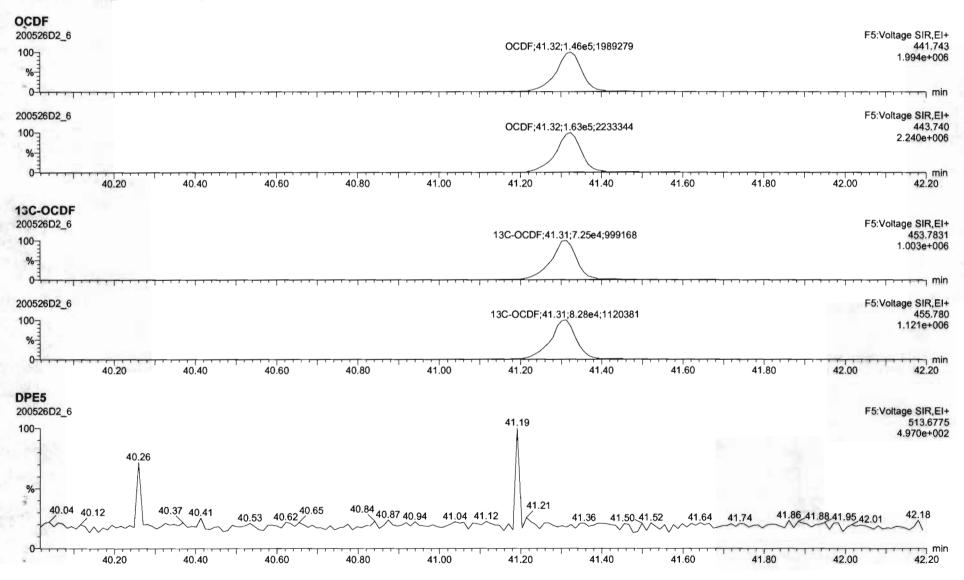


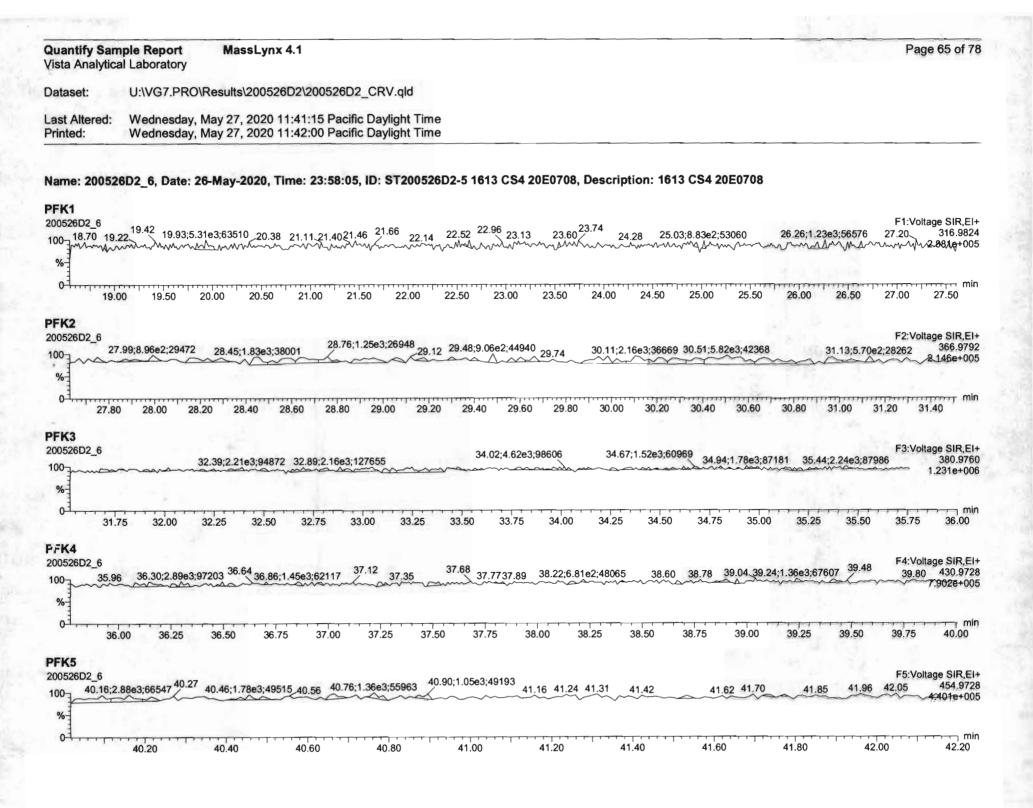
Quantify San Vista Analytic		Page 62 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	



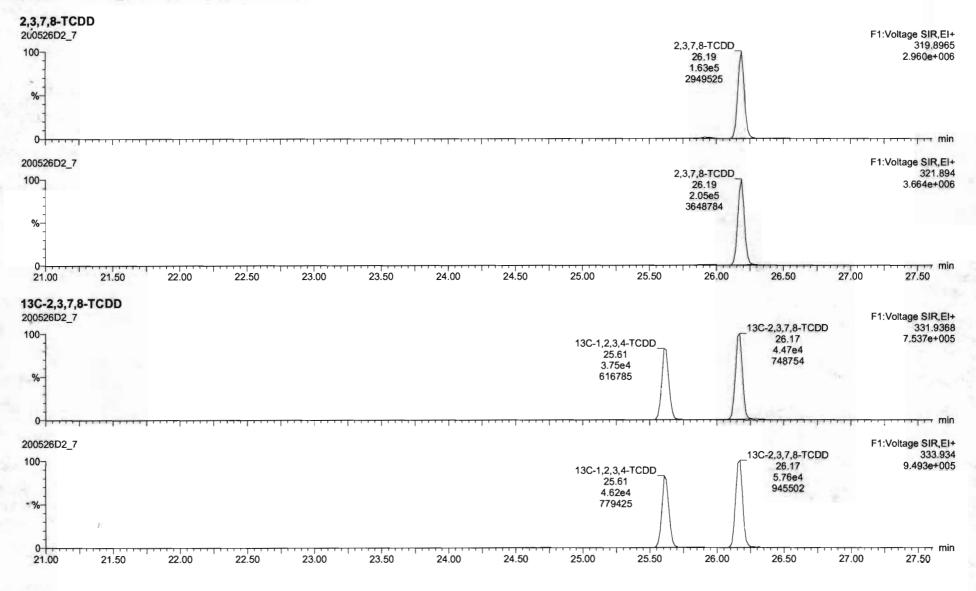


Quantify Sam Vista Analytica		Page 64 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

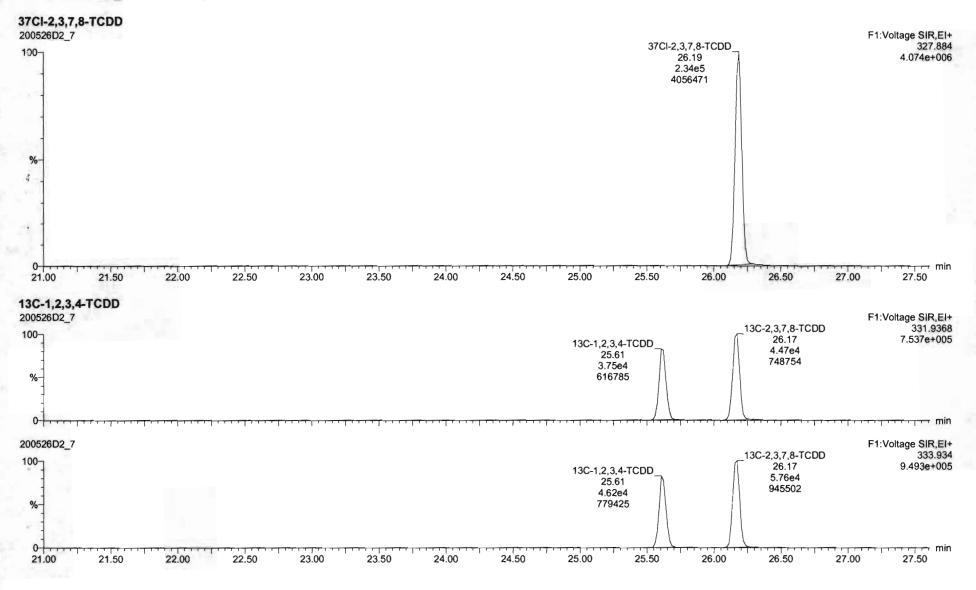




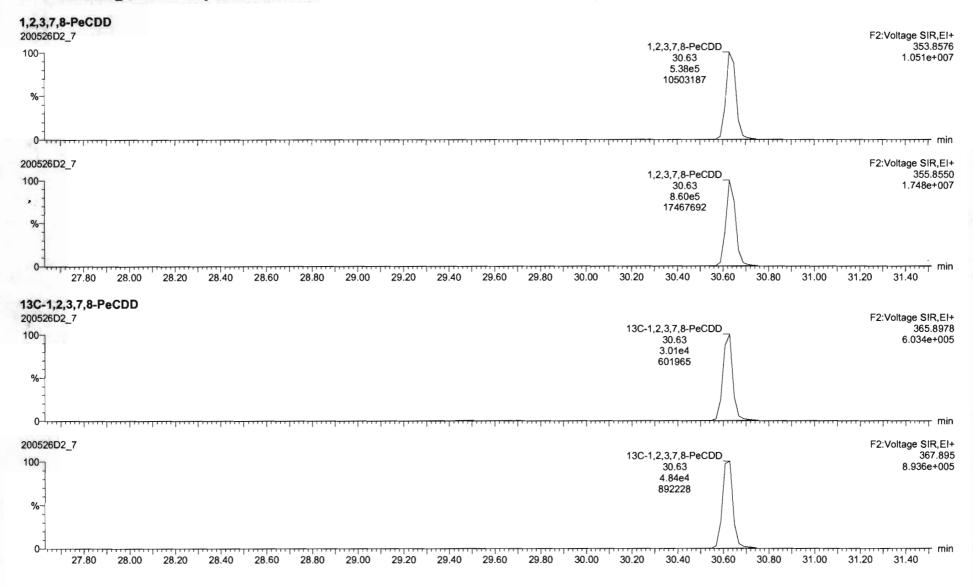
Quantify Sam Vista Analytica		Page 66 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

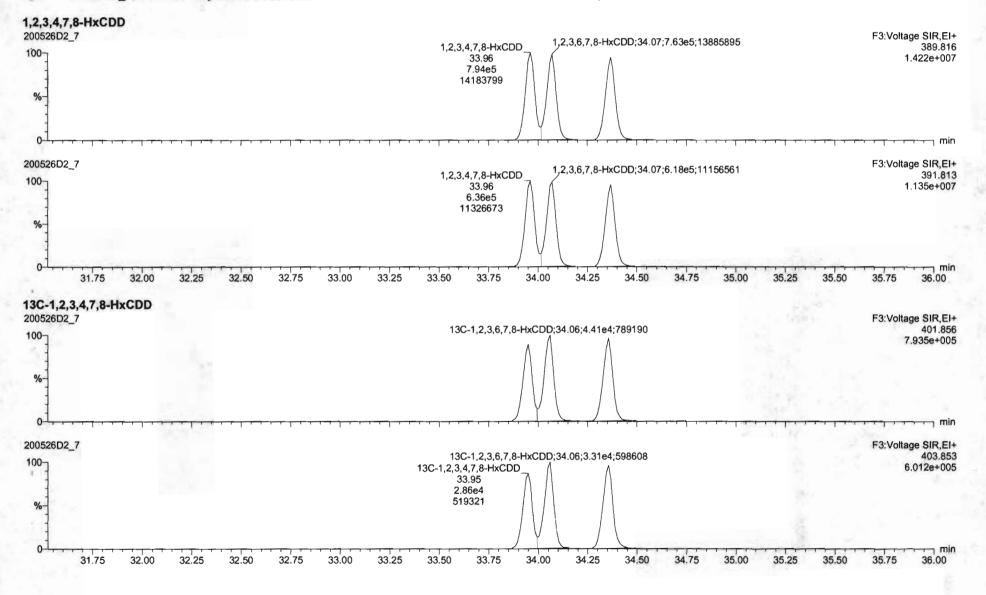


Quantify Sam Vista Analytica		Page 67 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

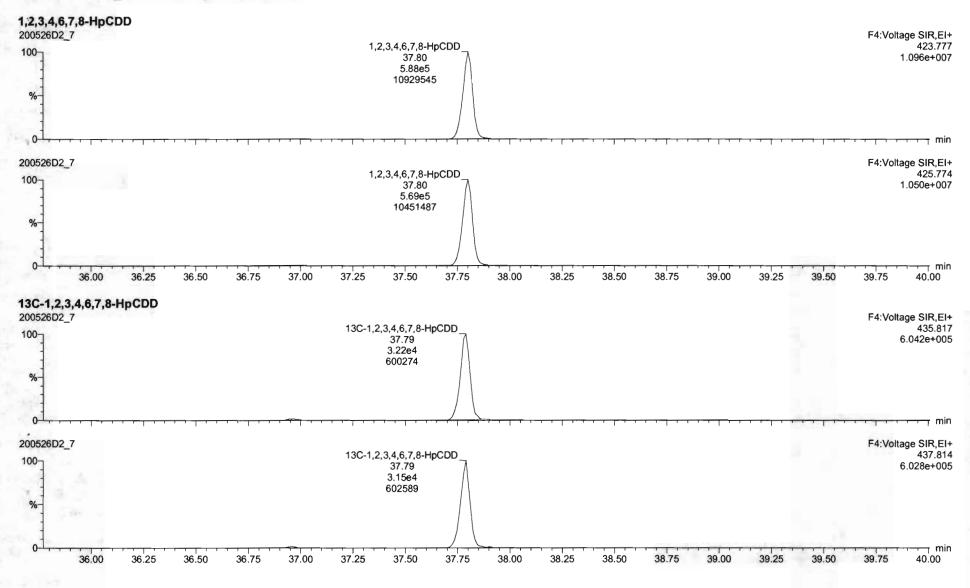


Quantify Sam Vista Analytica		Page 68 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

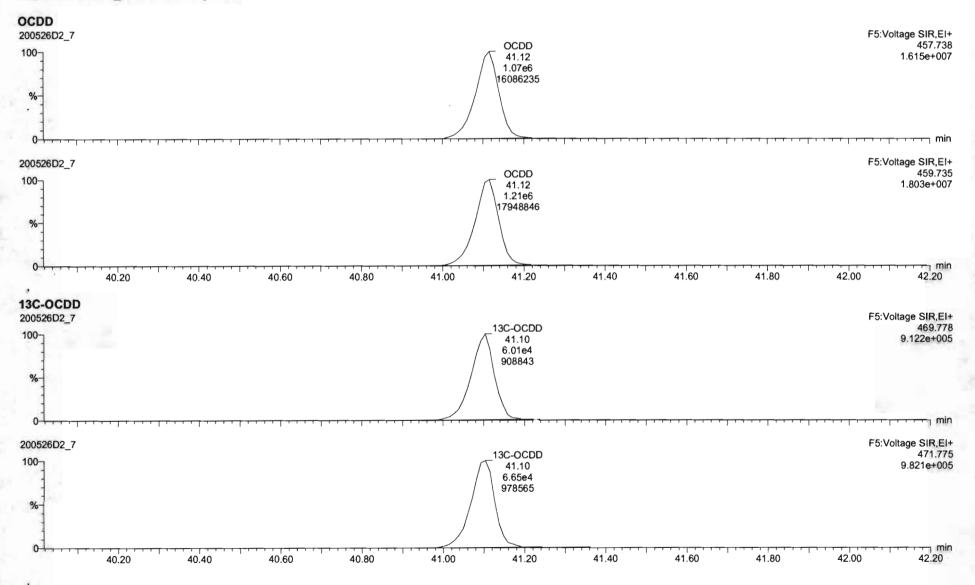




Quantify San Vista Analytic		Page 70 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

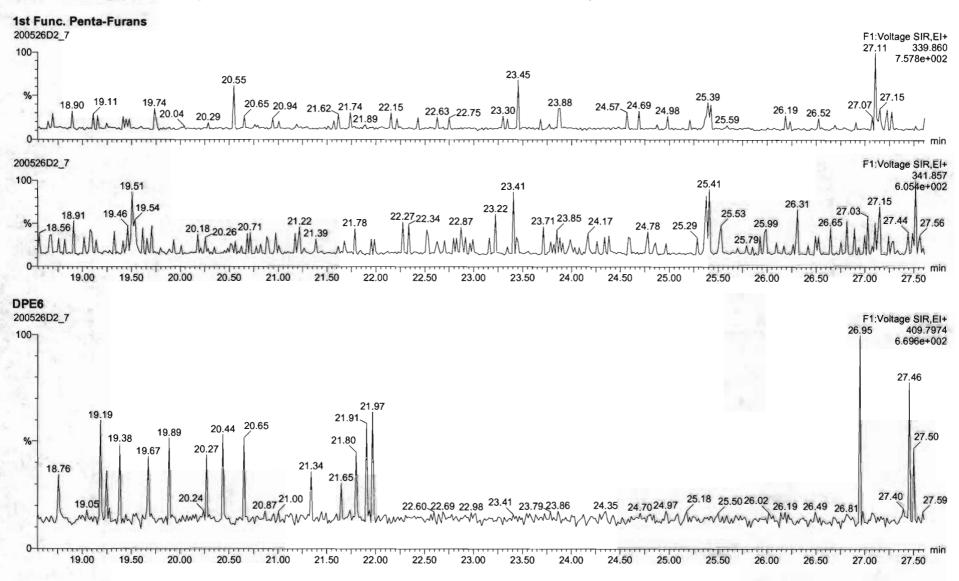


Quantify Sam Vista Analytica		Page 71 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

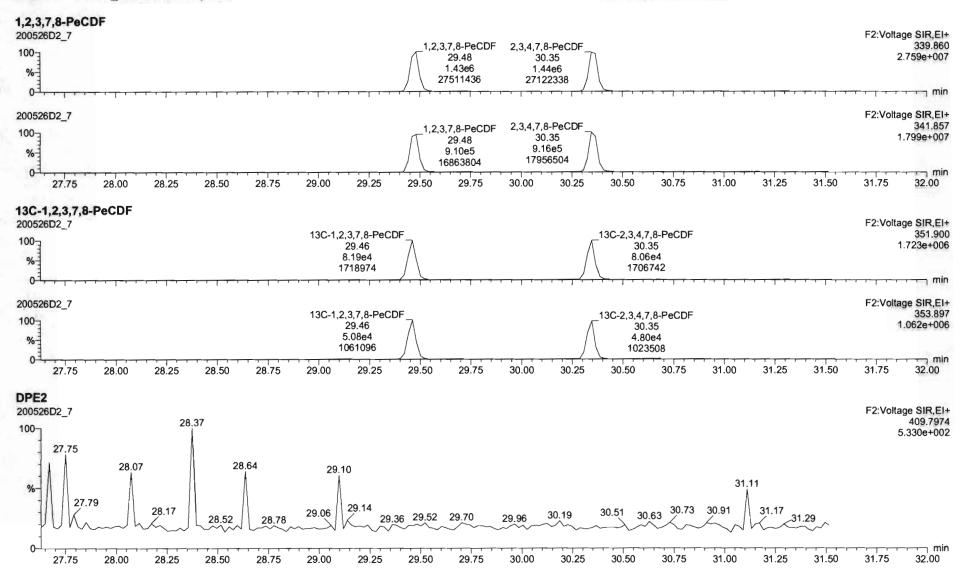


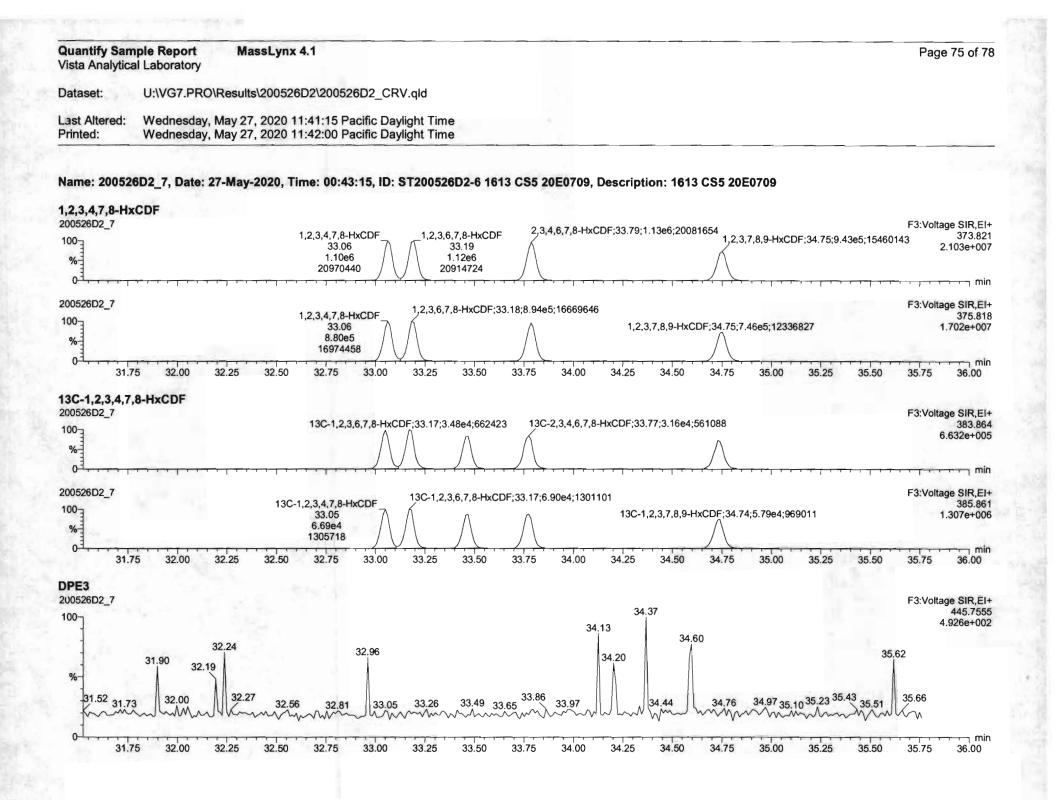
antify Sample Report MassLynx 4.1 ta Analytical Laboratory	Page 72 of
taset: U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
t Altered: Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Mednesday, May 27, 2020 11:42:00 Pacific Daylight Time	
me: 200526D2_7, Date: 27-May-2020, Time: 00:43:15, ID: ST200526D2-6 1613	CS5 20E0709, Description: 1613 CS5 20E0709
,7,8-TCDF	
526D2_7	F1:Voltage SIR 2,3,7,8-TCDF
	25.42 3,613e+ 2.21e5
	3597403 /
526D2_7	F1:Voltage SIR,
	2,3,7,8-TCDF 305. 25.42 4,586e+
	2.88e5 4564793
19.00 19.50 20.00 20.50 21.00 21.50 22.00 22.50 23	23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50
C-2,3,7,8-TCDF 526D2_7	F1:Voltage SIR
	13C-1,2,3,4-TCDF 13C-2,3,7,8-TCDF 315.9
	7.29e4 7.34e4
<sup>1</sup>	
526D2_7	F1:Voltage SIR 13C-1.2.3.4.TCDF 13C-2.3.7.8-TCDF 317.
	24.22 25.39 1.525e+
6- 	1330552 1520791
	23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50
E1	
	F1:Voltage SIR 375.8
526D2_7 20.68	
20.68	6.084e+
20.68	
20.68 19.34 19.61 22.61	6.084e+ 26.69 23.24 24.41
20.68	23.24 24.41

Quantify San Vista Analytica		Page 73 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

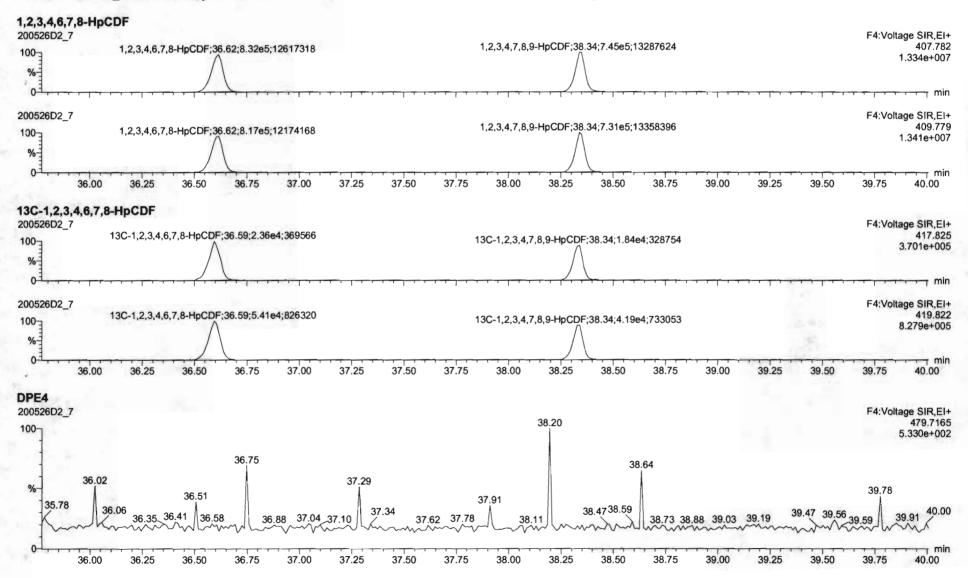


Quantify San Vista Analytica		Page 74 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	

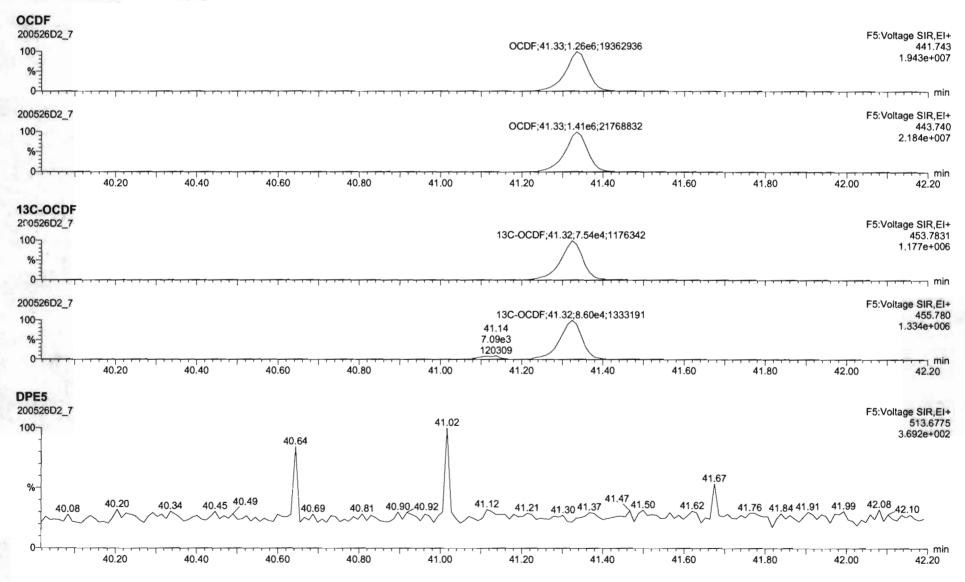


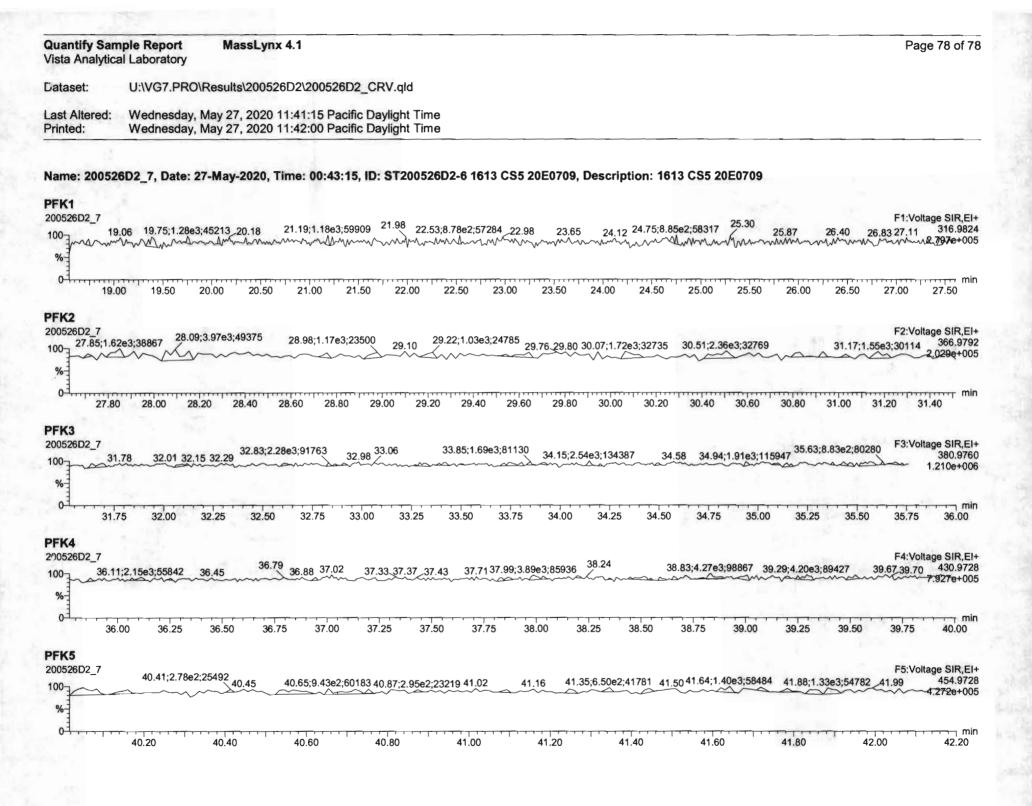


Quantify Sam Vista Analytica		Page 76 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	



Quantify San Vista Analytica		Page 77 of 78
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_CRV.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 11:41:15 Pacific Daylight Time Wednesday, May 27, 2020 11:42:00 Pacific Daylight Time	



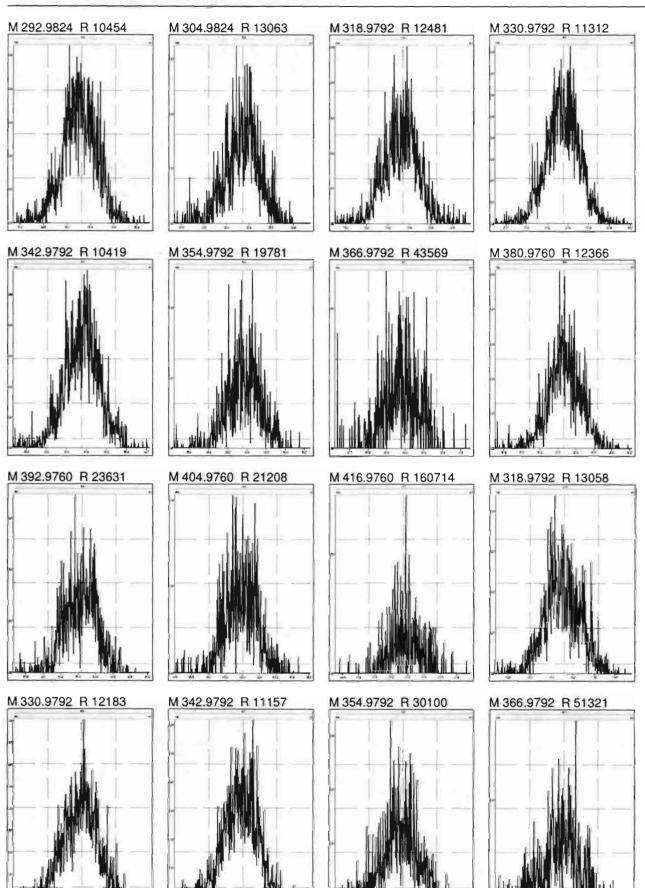


#### **Resolution Check Report**

MassLynx 4.1

Page 1 of 3

Printed: Wednesday, May 27, 2020 03:53:03 Pacific Daylight Time

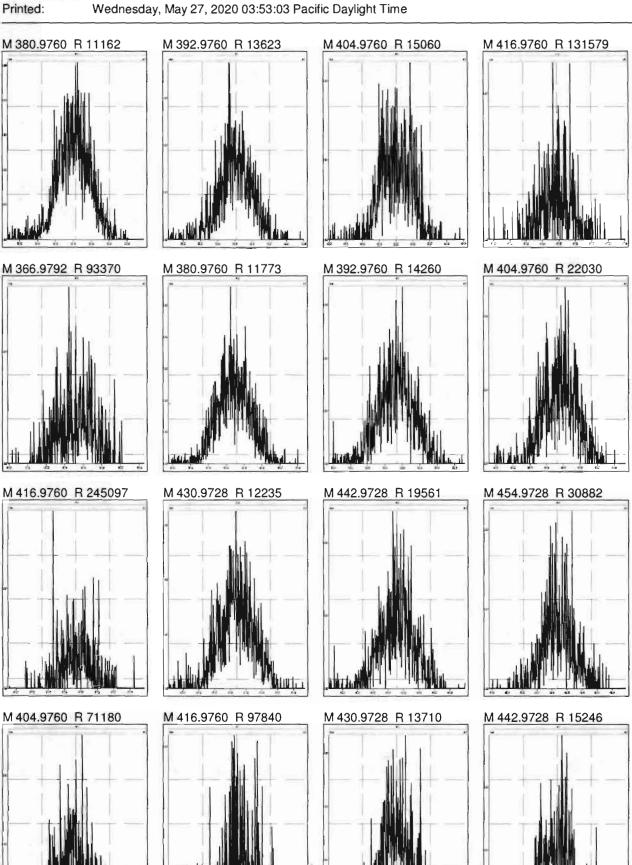


#### **Resolution Check Report**

MassLynx 4.1

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Printed:

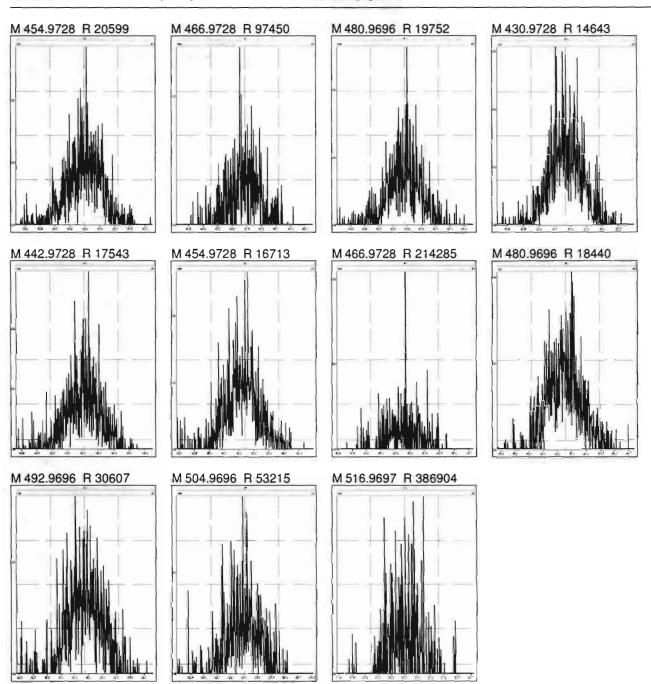


### **Resolution Check Report**

MassLynx 4.1

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Printed: Wednesday, May 27, 2020 03:53:03 Pacific Daylight Time



	mple Summary Report ical Laboratory	MassLynx 4.1	
Dataset:	U:\VG7.PRO\Results\200	0526D2\200526D2_9.qld	

Last Altered:	Wednesday, May 27, 2020 12:01:08 Pacific Daylight Time
Printed:	Wednesday, May 27, 2020 12:02:16 Pacific Daylight Time

C705/27/2000 DB 5/27/20

#### Method: C:\MassLynx\Default.pro\Methdb\1613\_rrt.mdb 27 Apr 2020 14:17:24 Calibration: U:\VG7.PRO\CurveDB\db-5\_1613vg7-5-26-20.cdb 27 May 2020 11:50:24

-	and the state of t	and the second s				1.124	and the second	and the second	1 . No. 1					-
The second	# 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	9.61e3	0.82	NO	0.986	1.000	26.189	26.17	1.001	1.001	10.643	106	0.0639	10.6
2	2 1,2,3,7,8-PeCDD	2.86e4	0.63	NO	0.964	1.000	30.630	30.63	1.001	1.001	46.774	93.5	0.0940	46.8
3	3 1,2,3,4,7,8-HxCDD	2.93e4	1.27	NO	1.16	1.000	33.938	33.95	1.000	1.001	46.907	93.8	0.177	46.9
4	4 1,2,3,6,7,8-HxCDD	3.12e4	1.29	NO	1.01	1.000	34.038	34.05	1.000	1.000	49.882	99.8	0.194	49.9
5	5 1,2,3,7,8,9-HxCDD	2.94e4	1.25	NO	1.01	1.000	34.368	34.34	1.001	1.000	47.481	95.0	0.207	47.5
6	6 1,2,3,4,6,7,8-HpCDD	2.32e4	1.06	NO	0.997	1.000	37.791	37.78	1.000	1.000	46.984	94.0	0.298	47.0
7	7 OCDD	4.45e4	0.88	NO	1.01	1.000	41.082	41.08	1.000	1.000	95.100	95.1	0.381	95.1
8	8 2,3,7,8-TCDF	1.21e4	0.75	NO	0.833	1.000	25.403	25.41	1.001	1.001	9.4425	94.4	0.0512	9.44
9	9 1,2,3,7,8-PeCDF	5.31e4	1.67	NO	0.965	1.000	29.462	29.46	1.001	1.001	47.411	94.8	0.119	47.4
10	10 2,3,4,7,8-PeCDF	6.02e4	1.60	NO	1.01	1.000	30.357	30.35	1.001	1.001	53.391	107	0.105	53.4
11	11 1,2,3,4,7,8-HxCDF	4.61e4	1.28	NO	1.09	1.000	33.039	33.05	1.000	1.000	48.113	96.2	0.186	48.1
12	12 1,2,3,6,7,8-HxCDF	4.75e4	1.28	NO	1.07	1.000	33.170	33.17	1.000	1.000	48.294	96.6	0.193	48.3
13	13 2,3,4,6,7,8-HxCDF	4.36e4	1.28	NO	1.15	1.000	33.786	33.77	1.001	1.001	46.073	92.1	0.194	46.1
14	14 1,2,3,7,8,9-HxCDF	3.60 <b>e</b> 4	1.30	NO	1.11	1.000	34.718	34.73	1.000	1.000	44.678	89.4	0.276	44.7
15	15 1,2,3,4,6,7,8-HpCDF	3.55e4	1.00	NO	1.16	1.000	36.620	36.59	1.001	1.000	47.071	94.1	0.321	47.1
16	16 1,2,3,4,7,8,9-HpCDF	3.10e4	1.02	NO	1.35	1.000	38.317	38.33	1.000	1.000	47.041	94.1	0.283	47.0
17	17 OCDF	5.28e4	0.90	NO	0.949	1.000	41.302	41.31	1.000	1.000	91.295	91.3	0.222	91.3
18	18 13C-2,3,7,8-TCDD	9.16e4	0.79	NO	1.26	1.000	26.273	26.16	1.026	1.021	101.93	102	0.287	
19	19 13C-1,2,3,7,8-PeCDD	6.34e4	0.61	NO	0.921	1.000	30.780	30.61	1.202	1.195	96.456	96.5	0.220	
20	20 13C-1,2,3,4,7,8-HxCDD	5.37e4	1.34	NO	0.707	1.000	33.913	33.93	1.014	1.014	94.462	94.5	0.355	
21	21 13C-1,2,3,6,7,8-HxCDD	6.21e4	1.38	NO	0.829	1.000	34.024	34.04	1.017	1.018	93.242	93.2	0.303	
22	22 13C-1,2,3,7,8,9-HxCDD	6.15e4	1.37	NO	0.808	1.000	34.295	34.33	1.025	1.027	94.700	94.7	0.311	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.96e4	1.02	NO	0.662	1.000	37.759	37.78	1.129	1.130	93.362	93.4	0.705	
24	24 13C-OCDD	9.24e4	0.88	NO	0.608	1.000	40.783	41.08	1.219	1.228	189.02	94.5	0.479	
25	25 13C-2,3,7,8-TCDF	1.53e5	0.78	NO	1.07	1.000	25.351	25.38	0.990	0.991	99.831	99.8	0.293	
26	26 13C-1,2,3,7,8-PeCDF	1.16e5	1.61	NO	0.826	1.000	29.594	29.44	1.156	1.150	97.891	97.9	0.264	
27	27 13C-2,3,4,7,8-PeCDF	1.12e5	1.74	NO	0.796	1.000	30.498	30.33	1.191	1.184	97.581	97.6	0.274	
28	28 13C-1,2,3,4,7,8-HxCDF	8.75e4	0.51	NO	1.08	1.000	33.044	33.04	0.988	0.988	101.31	101	0.458	
29	29 13C-1,2,3,6,7,8-HxCDF	9.23e4	0.49	NO	1.12	1.000	33.177	33.16	0.992	0.991	102.16	102	0.438	
30	30 13C-2,3,4,6,7,8-HxCDF	8.19e4	0.49	NO	1.02	1.000	33.749	33.75	1.009	1.009	99.493	99.5	0.480	
31	31 13C-1,2,3,7,8,9-HxCDF	7.22e4	0.51	NO	0.887	1.000	34.649	34.72	1.036	1.038	101.40	101	0.555	

Quantify Sample Summary Report	MassLynx 4.1
Vista Analytical Laboratory	

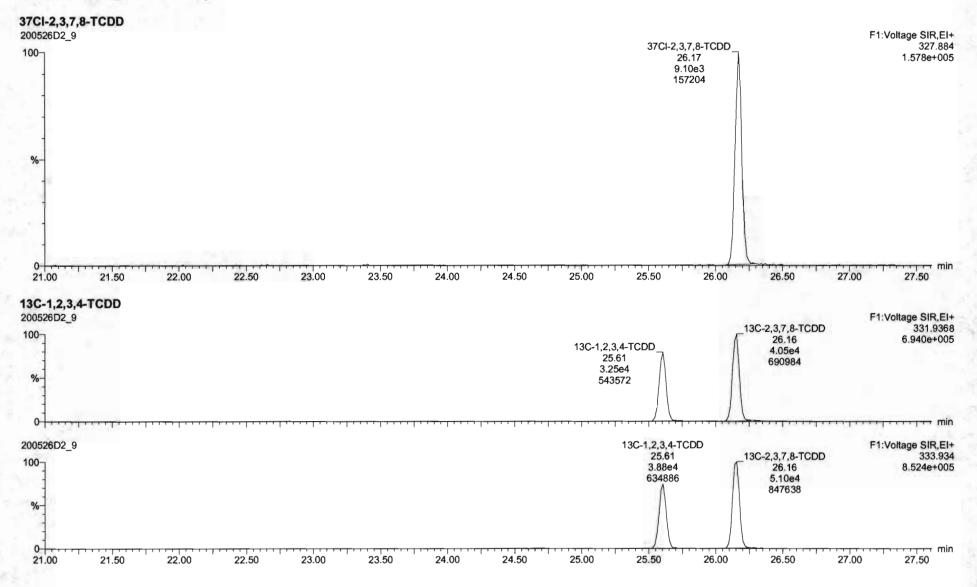
Dataset: U:\VG7.PRO\Results\200526D2\200526D2\_9.qld

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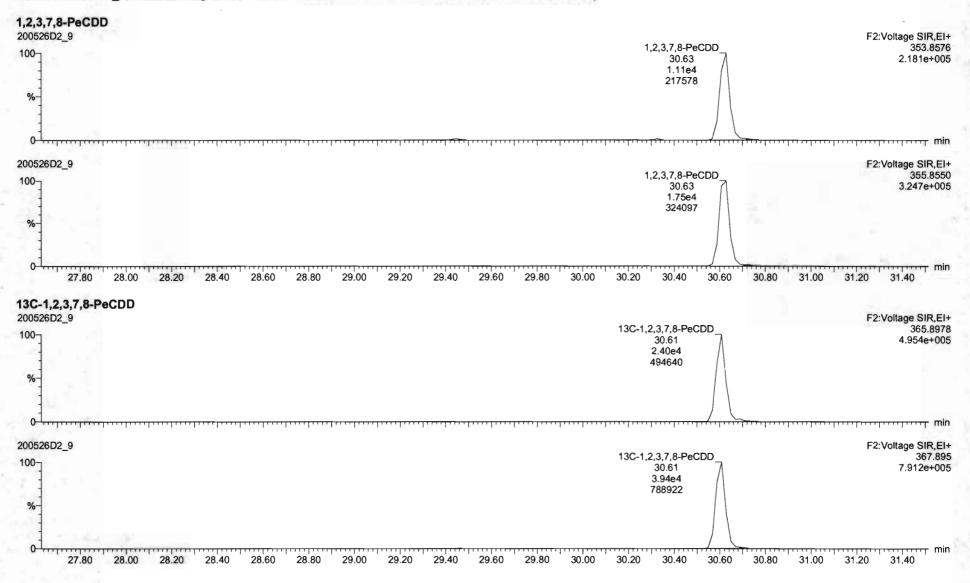
The state	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.52e4	0.44	NO	0.811	1.000	36.355	36.58	1.087	1.094	100.14	100	0.525	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.88e4	0.43	NO	0.598	1.000	38.361	38.32	1.147	1.146	101.56	102	0.711	
34	34 13C-OCDF	1.22e5	0.88	NO	0.752	1.000	40.937	41.30	1.224	1.235	201.85	101	0.313	
35	35 37CI-2,3,7,8-TCDD	9.10e3			1.24	1.000	26.270	26.17	1.026	1.022	10.258	103	0.0590	
36	36 13C-1,2,3,4-TCDD	7.13e4	0.84	NO	1.00	1.000	25.480	25.61	1.000	1.000	100.00	100	0.361	
37	37 13C-1,2,3,4-TCDF	1.44e5	0.81	NO	1.00	1.000	24.020	24.20	1.000	1.000	100.00	100	0.313	
38	38 13C-1,2,3,4,6,9-HxCDF	8.03e4	0.50	NO	1.00	1.000	33.530	33.44	1.000	1.000	100.00	100	0.492	

Quantify San Vista Analytica	nple Report al Laboratory	MassLynx	4.1							Page 1 of 1
Dataset:	U:\VG7.PRO	Results\200526	D2\200526D2_	9.qld						
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Method: C:\N	lassLynx\Defa U:\VG7.PRO\Cι	ult.pro\Methdb	\1613_rrt.mdb 613vo7-5-26-20	27 Apr 2020 .cdb 27 May	14:17:24 v 2020 11:50	:24				
		_					), Description: 1613 SS	S 20E071	D	
,3,7,8-TCDD										
200526D2_9							2,	3,7,8-TCDD 26.17 4.34e3 72840	Λ	F1:Voltage SIR,E 319.89 7.310e+00
%- - 				T++++	\			,,, <del>,,</del> ,,,		n
00526D2_9							2,	3,7,8-TCDD 26.17 5.27e3	λ	F1:Voltage SIR,E 321.8 8.747e+0
%- 				2250	24.00	24.50	25.00 25.50	86992 26.00	26.50	27.00 27.50
21.00 3C-2,3,7,8-T		.00 22.50	23.00	23.50	24.00	24.50	25.00 25.50	20.00	26.50	27.00 27.50
200526D2_9							13C-1,2,3,4-TCDD_ 25.61		13C-2,3,7,8-TCDD 26.16 4.05e4	F1:Voltage SIR,t 331.93 6.940e+0
%							3.25e4 543572		690984	
0+++++++++++++++++++++++++++++++++++++				1		*		l		F1:Voltage SIR,I
100							13C-1,2,3,4-TCDD 25.61 3.88e4 634886		_13C-2,3,7,8-TCDD 26.16 5.10e4 847638	333.9 8.524e+0
%-							004000	,		

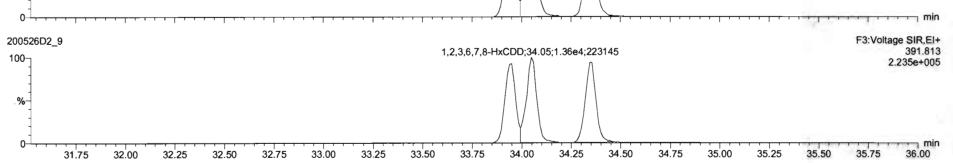
Quantify San Vista Analytica		Page 2 of 13
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_9.qld	
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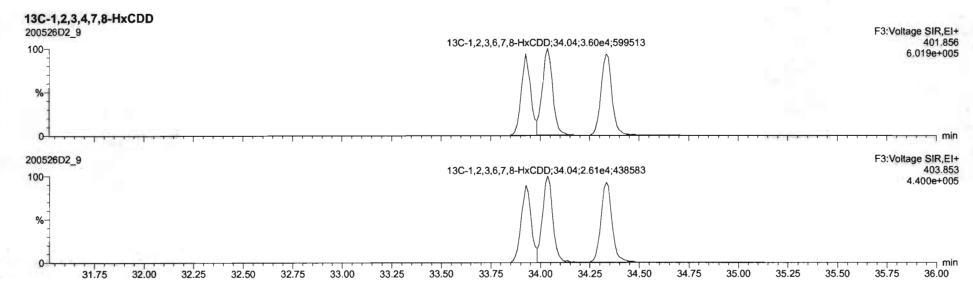


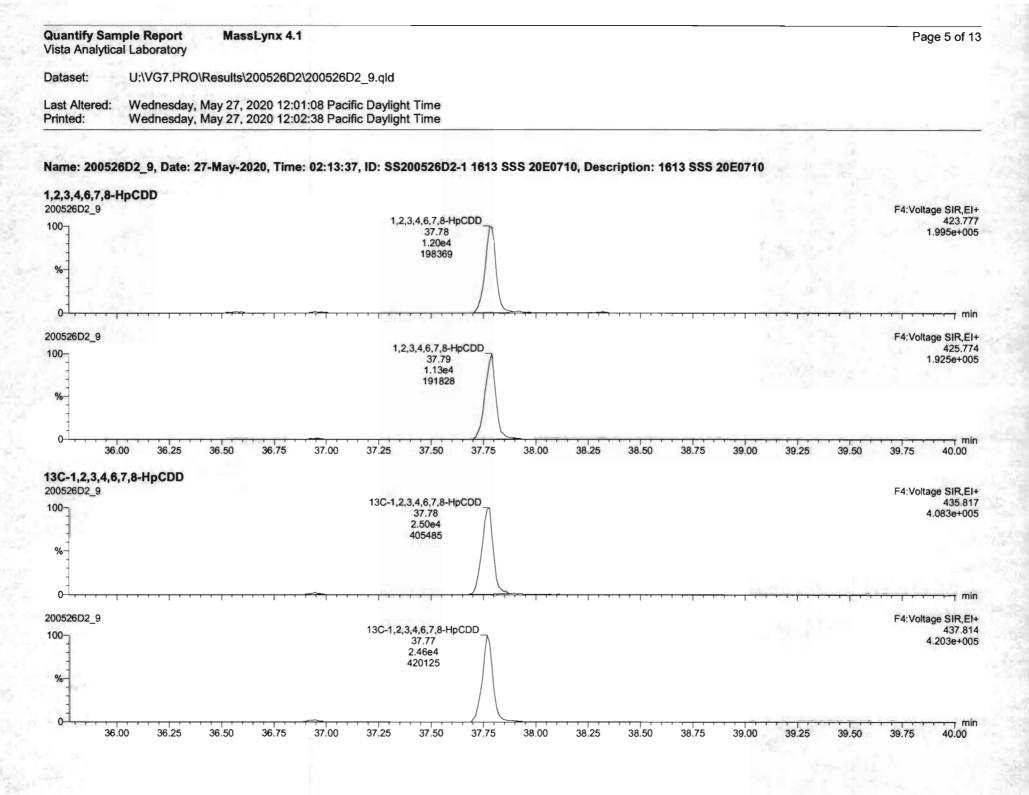
Quantify San Vista Analytic		Page 3 of 13
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_9.qld	
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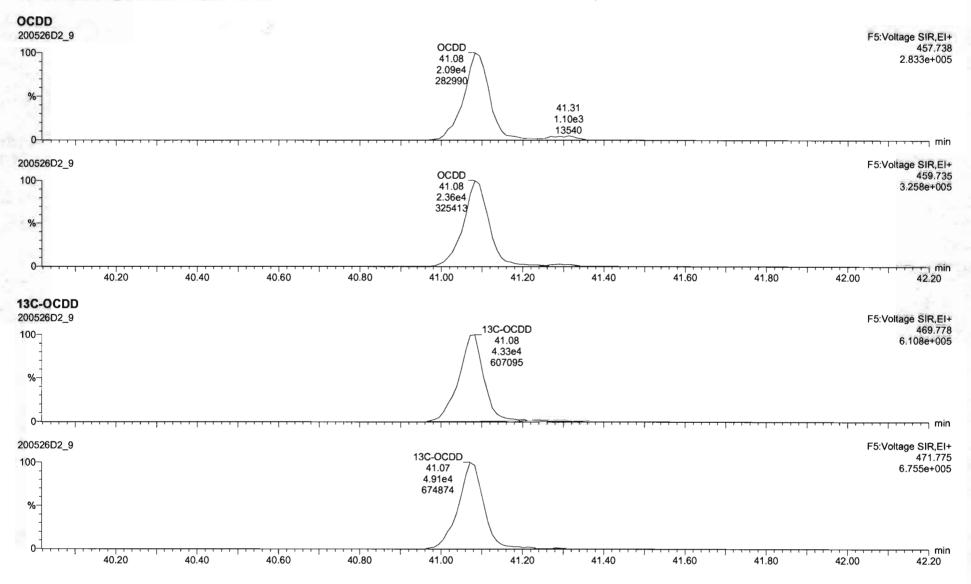
Quantify Sam Vista Analytica		Page 4 of 13
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_9.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 12:01:08 Pacific Daylight Time Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time	
	6D2_9, Date: 27-May-2020, Time: 02:13:37, ID: SS200526D2-1 1613 SSS 20E0710, Description: 1613 SSS 20E0710	
lame: 20052 ,2,3,4,7,8-Hx <sup>00526D2_9</sup>		F3:Voltage SIR,EI+
,2,3,4,7,8-Hx		F3:Voltage SIR,EI+ 389.816 2.828e+005





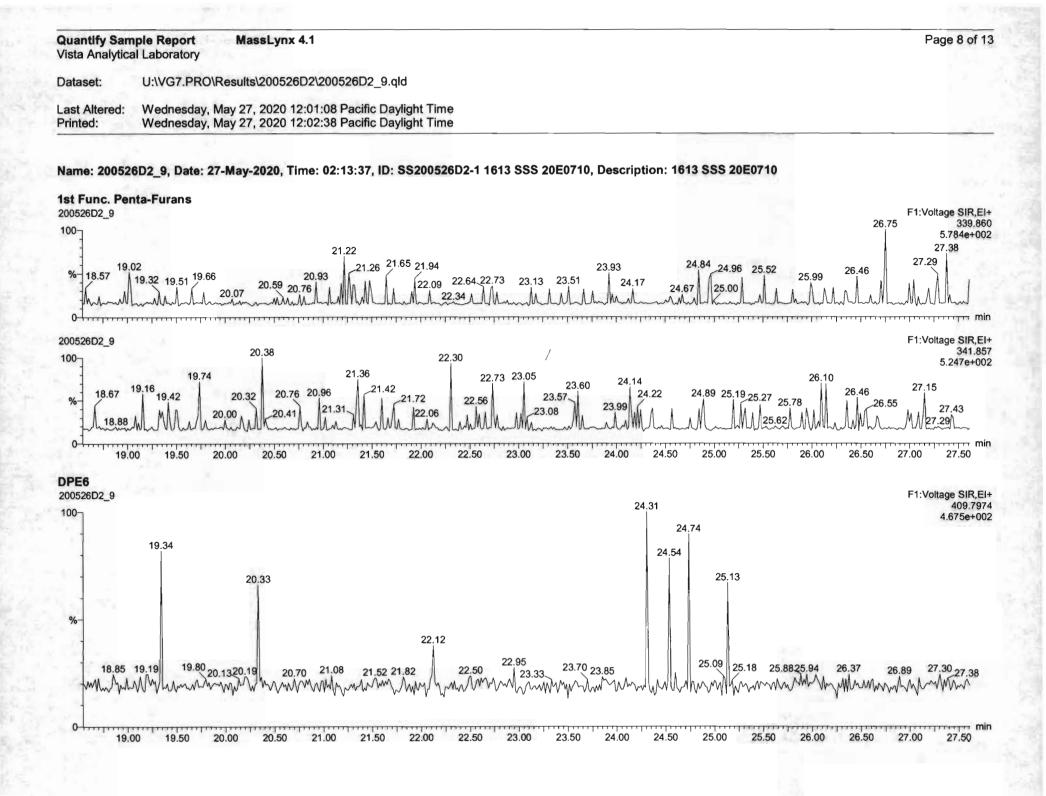


Quantify Sam Vista Analytica		Page 6 of 13
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_9.qld	
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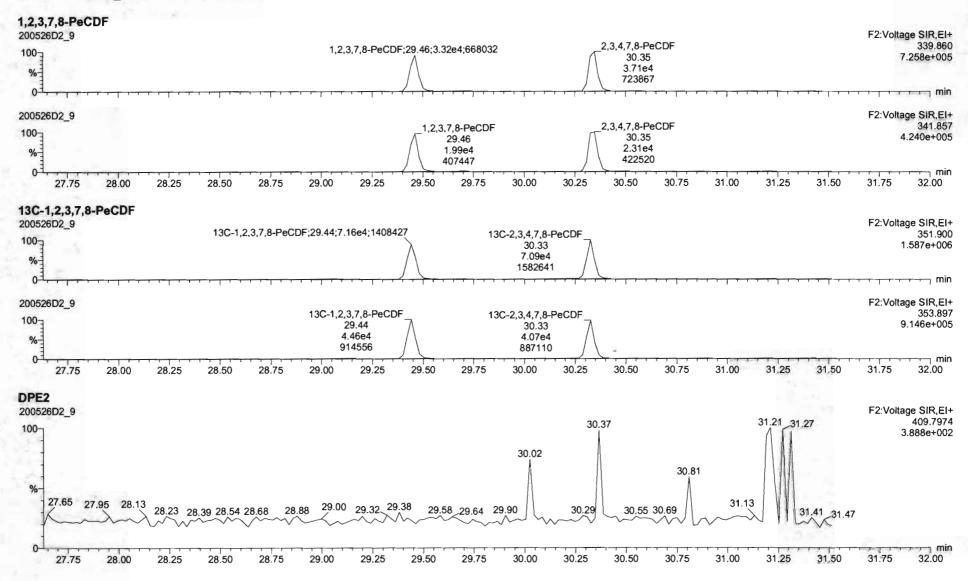


100

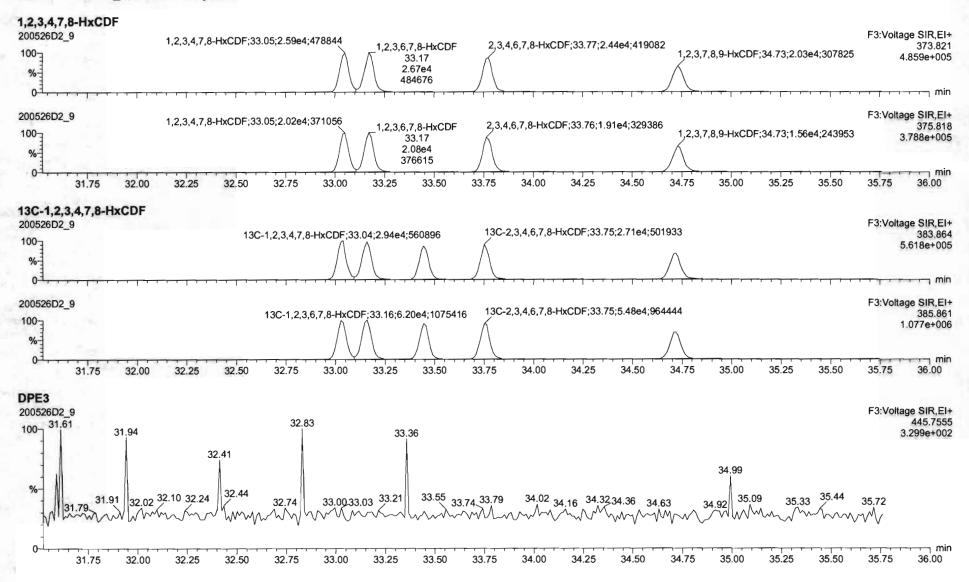
Quantify Sam Vista Analytica	nple Report MassLynx 4.1 al Laboratory			Page 7 of 1
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2	2_9.qld		
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Name: 20052	26D2_9, Date: 27-May-2020, Time: 02:13:37	7, ID: SS200526D2-1 1613 SSS 20E0710, Descrip	otion: 1613 SSS 20E0710	
3,7,8-TCDF			2,3,7,8-TCDF_	F1:Voltage SIR,E 303.901
100 %			25.41 5.18e3 77760	7.811e+00
00526D2_9			2,3,7,8-TCDF 25.41 6.87e3 112638	F1:Voltage SIR,E 305.8 1.131e+00
0 <del>1</del>	00 19.50 20.00 20.50 21.00 21	.50 22.00 22.50 23.00 23.50 24.00	24.50 25.00 25.50	26.00 26.50 27.00 27.50
3C-2,3,7,8-T 00526D2_9	CDF	13C-1,2,3,4-TCDF;24.20;6.41e4;921355	13C-2,3.7,8-TCDF 25.38 6.70e4 1093610	F1:Voltage SIR,E 315.94 1.098e+0
0 <sup>-1</sup>	*****	13C-1,2,3,4-TCDF;24.20;7.96e4;1160055	13C-2,3,7,8-TCDF 25.38 8.6264 1381173	F1:Voltage SIR, 317,9 1.385e+0
0 <del>1,</del> 19.0	00 19.50 20.00 20.50 21.00 21	.50 22.00 22.50 23.00 23.50 24.00	24.50 25.00 25.50	26.00 26.50 27.00 27.50
00526D2_9	9.09 20.24			F1:Voltage SIR,E 27.24 375.83 4.194e+0
%- 18.86	19.22 19.84 19.45 20.15 20.29 20.68 20.99 20.68 20.99 20.85 21.07 2 20.85 21.07 2 20.85 20.99	21.03 22.44 23.96	25.21 24.38 24.57 24.78 25.36	.74 26.28 26.7826.85 27.44
0 1	00 19.50 20.00 20.50 21.00 21	.50 22.00 22.50 23.00 23.50 24.00	24.50 25.00 25.50	26.00 26.50 27.00 27.50

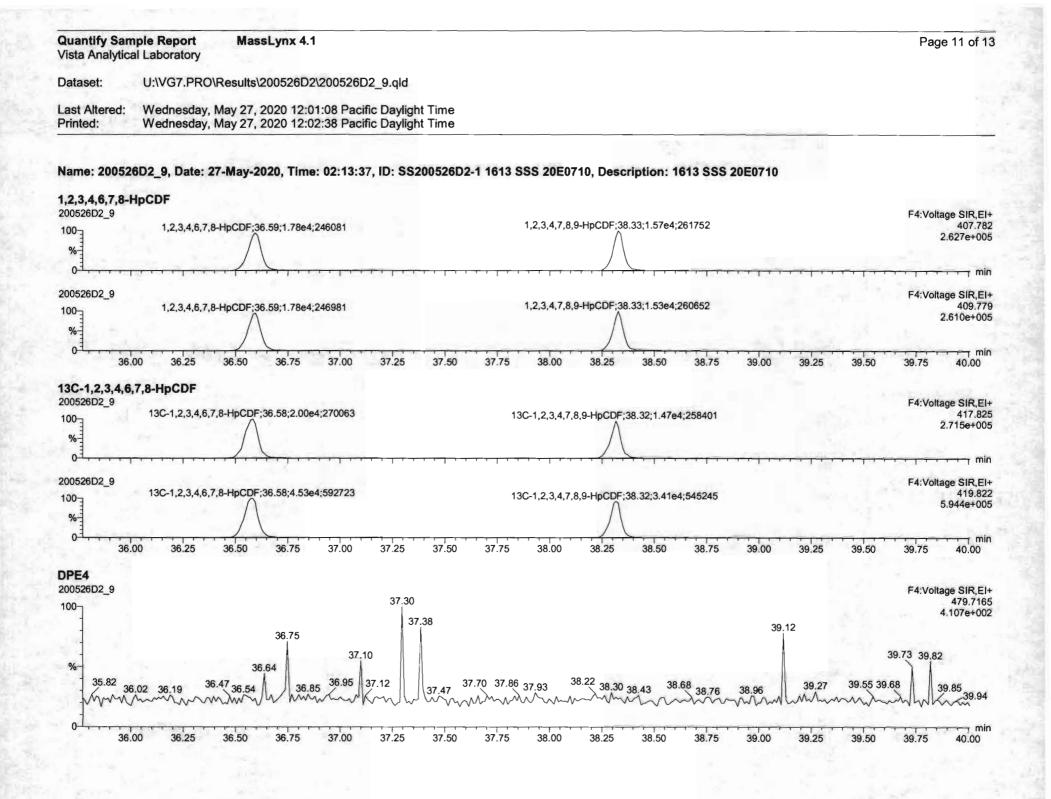


Quantify Sam Vista Analytica		Page 9 of 13
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_9.qld	
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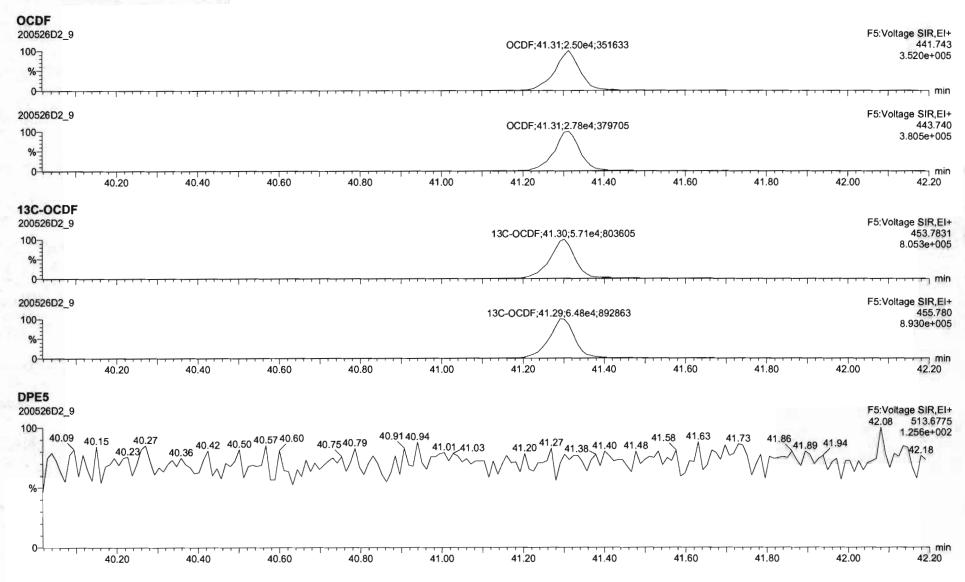


Quantify San Vista Analytica		Page 10 of 13
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_9.qld	
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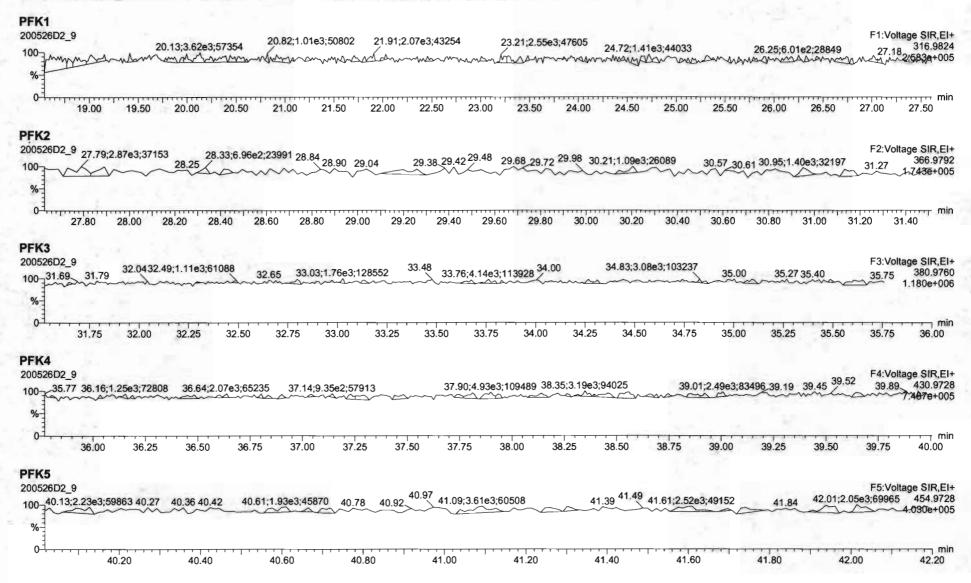
Quantify San Vista Analytica		Page 12 of 13
Dataset:	U:\VG7.PRO\Results\200526D2\200526D2_9.qld	
Last Altered: Printed:	Wednesday, May 27, 2020 12:01:08 Pacific Daylight Time Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time	



#### Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory

#### Dataset: U:\VG7.PRO\Results\200526D2\200526D2 9.qld

Last Altered: Wednesday, May 27, 2020 12:01:08 Pacific Daylight Time Printed: Wednesday, May 27, 2020 12:02:38 Pacific Daylight Time



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

#### 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

States of the	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

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Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld
Last Altered:	Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time
Printed:	Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

#### Compound name: 1,2,3,4,7,8-HxCDD Response Factor: 1.03343 RRF SD: 0.0545572, Relative SD: 5.27925 Response type: Internal Std ( Ref 20 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

320.00	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	1.69 <b>e</b> 4	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

.51

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

04	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	8.01 <b>e</b> 4	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	ММ
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

Std. Conc RA n/y RT RRT IS Resp Conc. %Dev RRF X = dropped Name Resp 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 NO -2.3 0.866 1.21 35.27 1.001 1.62e4 7.48e5 2.44 bb

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Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld
Last Altered:	Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time
Printed:	Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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

1. 1. C. 10	Name	Std. Conc	RA	n/y	RŤ	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

1355	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

12 2	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	2.50	0.85	NO	41.76	1.000	1.23e4	1.18e6	2.27	-9.1	0.831	bd
2	200528R2_2	5.00	0.83	NO	41.77	1.000	2.39e4	1.05e6	4.97	-0.6	0.908	bd
3	200528R2_3	20.0	0.89	NO	41.78	1.000	9.89e4	1.03e6	21.0	4.9	0.959	MM
4	200528R2_4	400	0.87	NO	41.77	1.000	2.45e6	1.35e6	397	-0.6	0.908	MM
5	200528R2_5	3000	0.84	NO	41.79	1.000	2.37e7	1.67e6	3100	3.2	0.943	MM
6	200528R2_6	100	0.88	NO	41.78	1.000	4.53e5	9.71e5	102	2.2	0.933	MM

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

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Printed:	Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

Compound name: 2,3,7,8-TCDF Response Factor: 0.75098 REF SD: 0.0524401, Relative SD: 6.98288 Response type: Internal Std ( Ref 25 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

- P-S	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

1000	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

1.0	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

2 14 1	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	bđ
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	bđ
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bđ
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

1.8	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

1.2.00	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

Then Pox 1	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

183	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 Riesp	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	1.16 <b>e</b> 6	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

D. C.	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

State of the local division in which the	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

1200	Name	Std. Conc	RA	ħ/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

1221	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

1. 10 - 24	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

A REAL PROPERTY AND	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

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618	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

-37	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	1.63 <b>e</b> 6	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

1 1.1	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	1.35 <b>e</b> 6	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

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

Last Altered: Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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

- The	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

1.1	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

100	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

## Quantify Compound Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory Vista Analytical Laboratory

Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld
Last Altered:	Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time
Printed:	Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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

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

Compound name: 13C-1,2,3,7,8,9-HxCDF Response Factor: 0.859541 RRF SD: 0.107178, Relative SD: 12.4692 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

27.00	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	35.6 <b>3</b>	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

## Quantify Compound Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory Vista Analytical Laboratory

Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld
Last Altered:	Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time

Printed: Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

#### Compound name: 13C-1,2,3,4,7,8,9-HpCDF Response Factor: 0.520991 RRF SD: 0.083066, Relative SD: 15.9439 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.43	NO	39.31	1.144	5.09e5	8.40e5	116	16.3	0.606	MM
2	200528R2_2	100	0.42	NO	39.32	1.144	4.36e5	9.66e5	86.7	-13.3	0.452	bb
3	200528R2_3	100	0.42	NO	39.33	1.144	4.19e5	9.75e5	82.5	-17.5	0.430	MM
4	200528R2_4	100	0.42	NO	39.32	1.144	5.18e5	9.81e5	101	1.4	0.529	MM
5	200528R2_5	100	0.44	NO	39.33	1.144	6.39e5	1.01e6	121	21.3	0.632	bb
6	200528R2_6	100	0.43	NO	39.34	1.144	3.75e5	7.84e5	91.8	-8.2	0.478	bd

#### Compound name: 13C-OCDF Response Factor: 0.745653 RRF SD: 0.129429, Relative SD: 17.3579 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

11000	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: 37CI-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

1	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

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#### Quantify Compound Summary Report Vista Analytical Laboratory MassLynx 4.1 SCN815

Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld
Last Altered: Printed:	Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

#### Compound name: 37CI-2,3,7,8-TCDD

1000	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

-5

# Dataset:U:\VG12.PRO\Results\200528R2\200528R2-CRV.qldLast Altered:Thursday, May 28, 2020 4:52:08 PM Pacific Daylight TimePrinted: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

1.2.2	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

	ple Summary Report MassLynx 4.1 SCN815 Il Laboratory VG-11	Page 1 of 1
Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld	
Last Altered: Printed:	Thursday, May 28, 2020 16:40:33 Pacific Daylight Time Thursday, May 28, 2020 16:57:10 Pacific Daylight Time	

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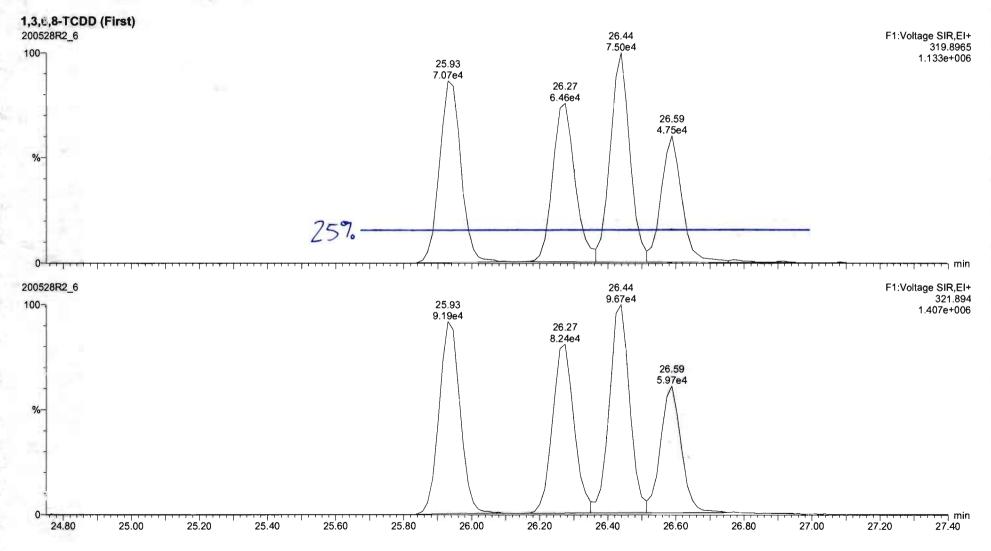
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-174	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.59
2	2 1,2,8,9-TCDD (Last)	27.53
3	3 1,2,4,7,9-PeCDD (First)	29.32
4	4 1,2,3,8,9-PeCDD (Last)	31.89
5	5 1,2,4,6,7,9-HxCDD (First)	33.39
6	6 1,2,3,7,8,9-HxCDD (Last)	35.27
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.81
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

Quantify Sample Report         MassLynx 4.1 SCN815           Vista Analytical Laboratory VG-11		Page 1 of 1
Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld	
Last Altered: Printed:	Thursday, May 28, 2020 16:40:33 Pacific Daylight Time Thursday, May 28, 2020 16:57:10 Pacific Daylight Time	GPB 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



#### 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

17553	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	

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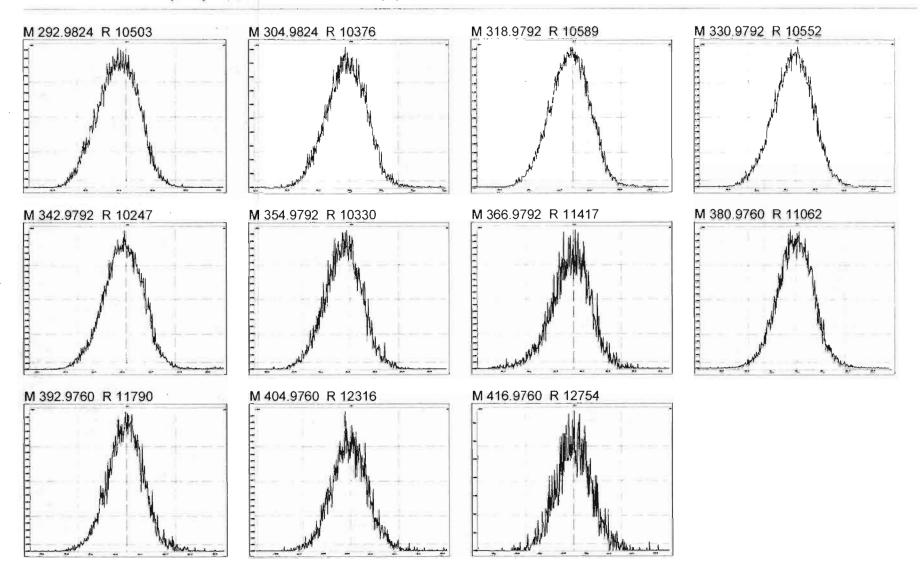
#### **Experiment Calibration Report**

#### MassLynx 4.1 SCN815

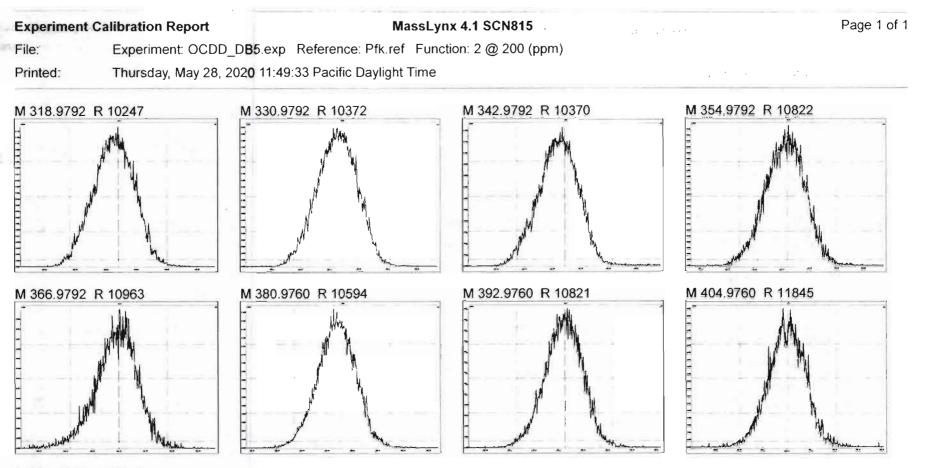
Page 1 of 1

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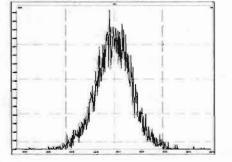
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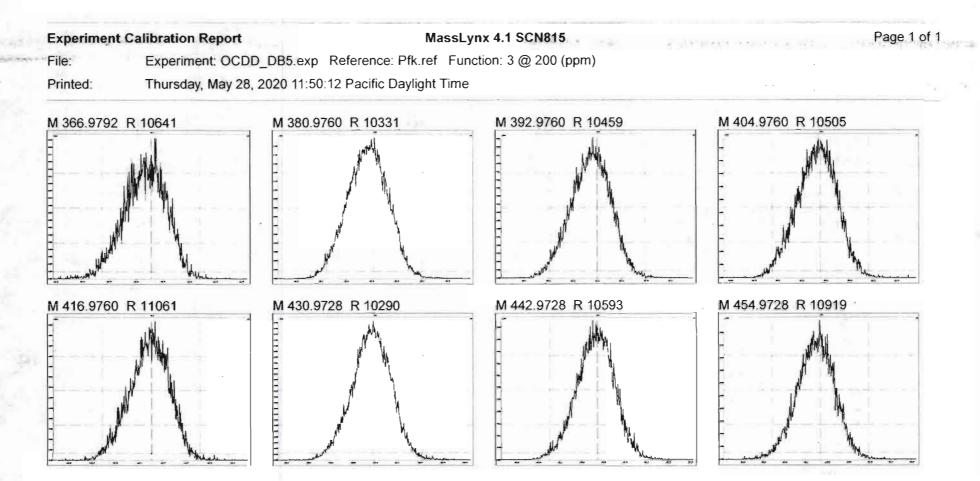


Work Order 2001155



#### M 416.9760 R 12018





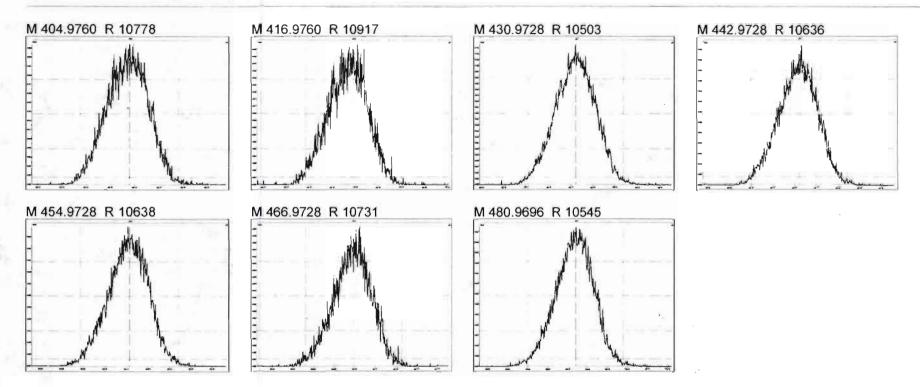
# **Experiment Calibration Report**

### MassLynx 4.1 SCN815

Page 1 of 1

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, May 28, 2020 11:51:03 Pacific Daylight Time



## **Experiment Calibration Report**

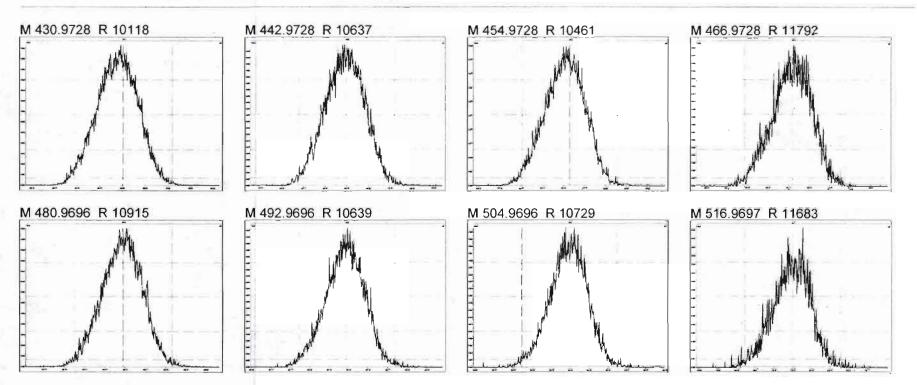
#### MassLynx 4.1 SCN815

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

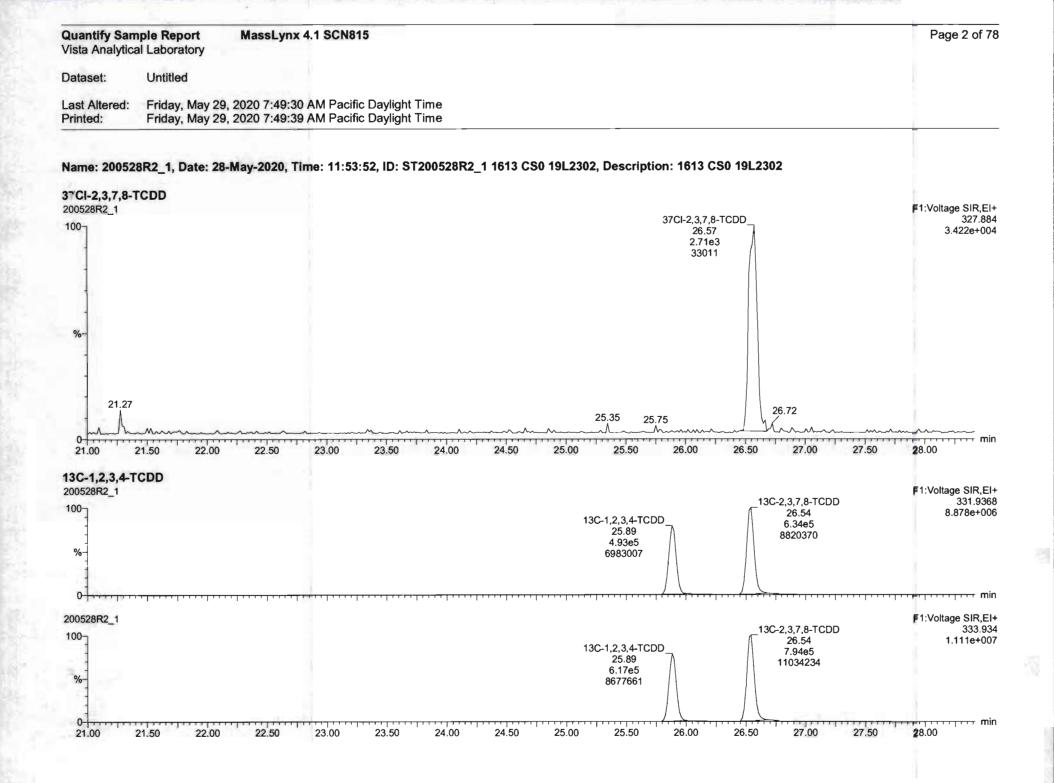
Printed:

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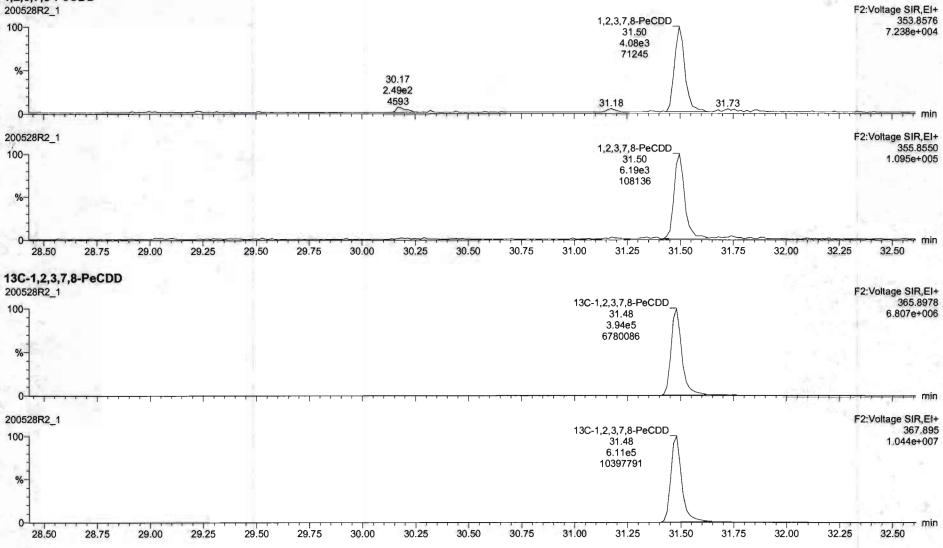
Thursday, May 28, 2020 11:51:45 Pacific Daylight Time



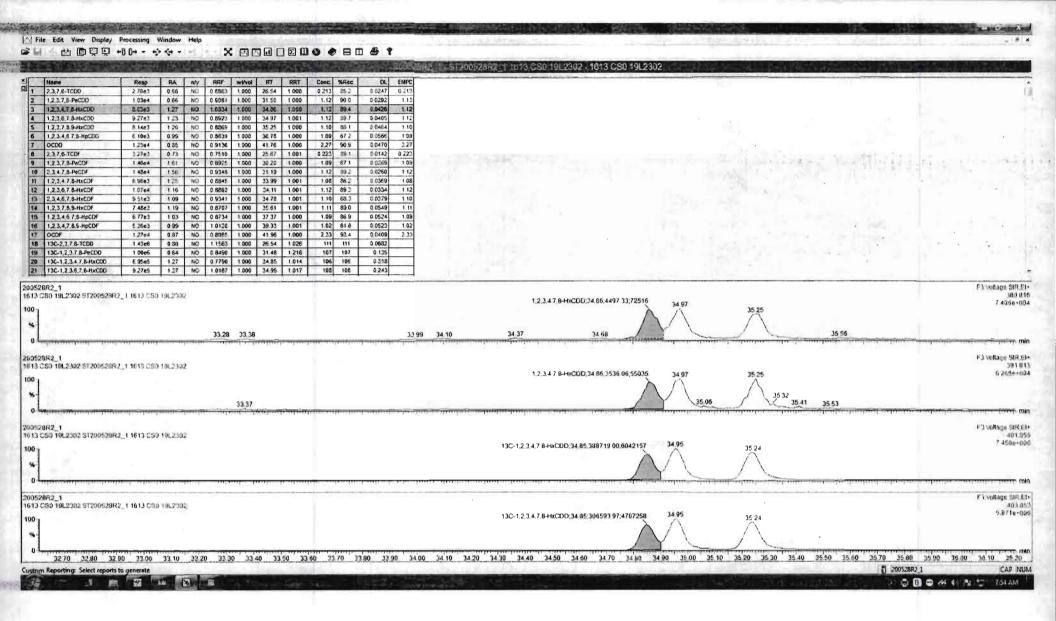
	nple Report al Laboratory	MassLynx 4.1 SC	N815							Page 1 of 7
ataset:	Untitled									
ast Altered: rinted:	Friday, May 29 Friday, May 29	, 2020 7:49:30 AM Pa , 2020 7:49:39 AM Pa	cific Daylight Tim cific Daylight Tim	e						
	/G12.PRO\MethI 29 May 2020 07:4	DB\1613rrt-05-26-20. 49:30	ndb 26 May 2020	) 10:34:17						
ame: 20052	28R2_1, Date: 28	-May-2020, Time: 11	:53:52, ID: ST200	528R2_1 1613 C	S0 19L2302, Desc	ription: 1613	CS0 19L2	2302		
,3,7,8-TCDD	)									
00528R2_1						1	7,8-TCDD_ 26.54 .09e3 16198			F1:Voltage SIR,E 319.890 1.766e+00
21.27	21.33 21.77 21.86	22.23 22.49 22.91 23	24 23.43 23.65 23	.83 24.21 24.36 24	4.73 24.97 25.39	3319	.15	26.89 27.11	27.44 27.58	27.94 28.04
00528R2_1										F1:Voltage SIR,E
%	21,50 21,98	22,85		24.09 24.46			7,8-TCDD 26.57 1.61e3 24757	26.93 27.13	27.56	321.8 2.625e+0
official		22.85 		24.09 24.46 24.00 24.50	<del></del>	26	26.57 1.61e3 24757	26.93 27.13 27.00	27.56	321.8 2.625e+0 28.00
% 21.27 0 21.00 3 <b>C-2,3,7,8-T</b> 00528R2_1	21.50 21.98 21.50 22.00		23.50		13C-1,2,3, 25.8 4.934	26 50 26.00 4-TCDD_ 9 e5	26.57 1.61e3 24757 .15 .26.50	27.13	27.50	321.8 2.625e+0 28.00 F1:Voltage SIR,E 331.93
% 21.27 0 21.00 3C-2,3,7,8-T 00528R2_1	21.50 21.98 21.50 22.00		23.50		13C-1,2,3, 25.8	26 50 26.00 4-TCDD_ 9 e5	26.57 1.61e3 24757 .15 .26.50	27.00 13C-2,3,7,8-TCDD 26.54 6.34e5	27.50	321.8 2.625e+0
% 21.27 0 21.00 3C-2,3,7,8-T 00528R2_1 00 %	21.50 21.98 21.50 22.00		23.50		13C-1,2,3, 25.8 4.934	26 50 26.00 4-TCDD 9 50 007 4-TCDD 99 5 007	26.57 1.61e3 24757 .15 26.50	27.00 13C-2,3,7,8-TCDD 26.54 6.34e5	·····	321.8 2.625e+0 777777777777777777777777777777777777

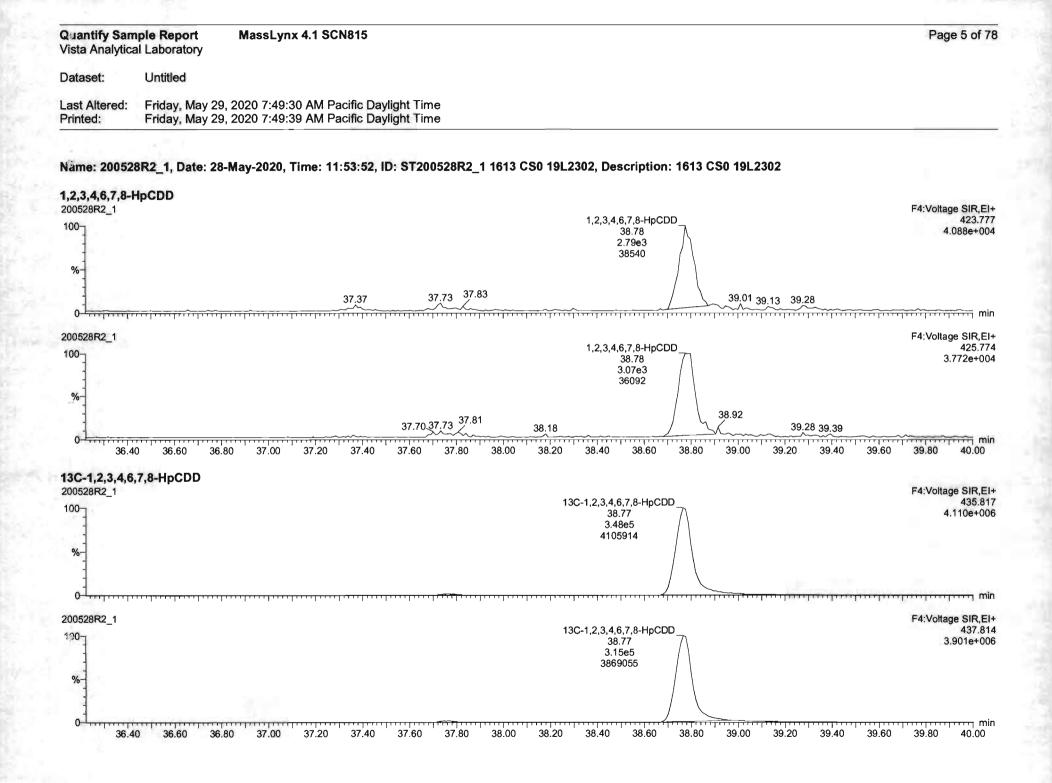


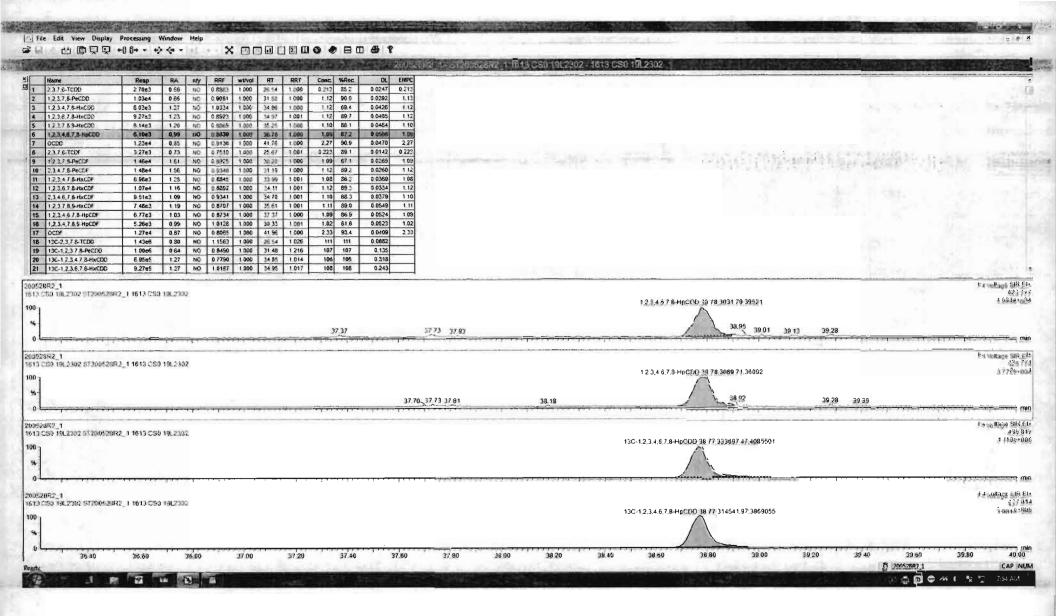
Quantify Sam Vista Analytica		Page 3 of 78
Dataset:	Untitled	
Last Altered: Printed:	Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time	

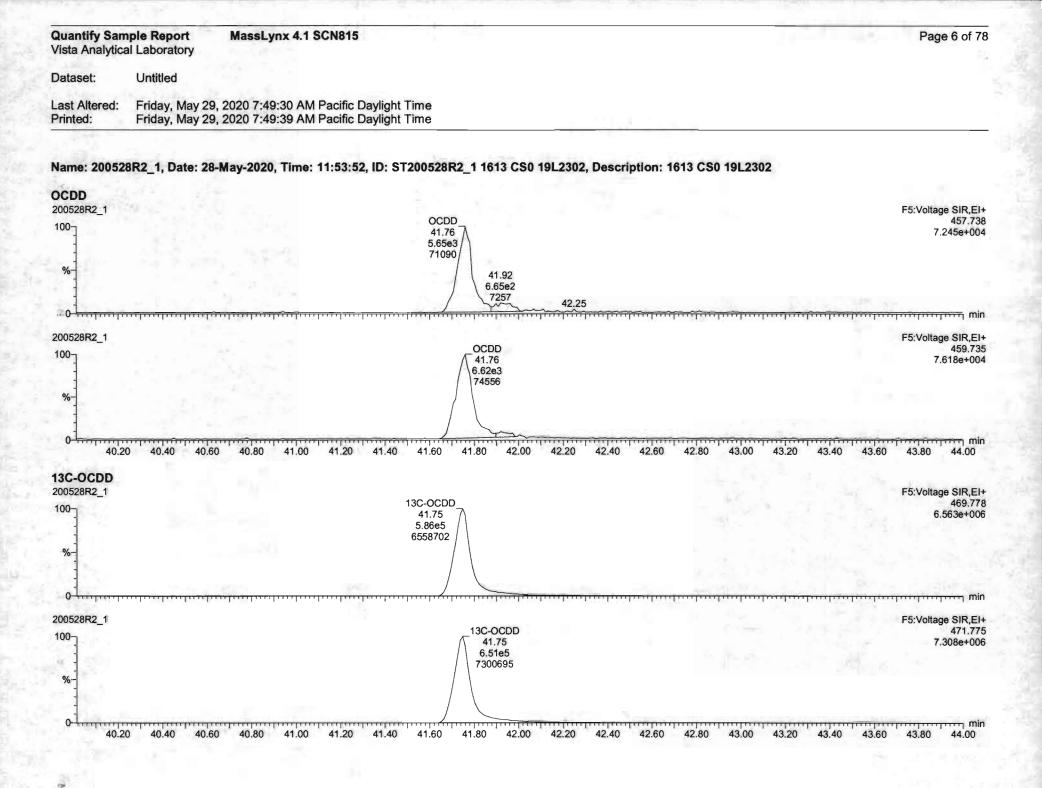


ista Analytical Laboratory	MassLynx 4.1 SCN815	Pa	age 4 of 7
ataset: Untitled			
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Thited. Friday, Way 2	5, 2020 7.45.55 AM Facine Dayight Time		
ame: 200528P2 1 Date: 2	8 May 2020 Time: 11:52:52 ID: \$720052802 1	1613 CS0 19L2302, Description: 1613 CS0 19L2302	
<b>,2,3,4,7,8-HxCDD</b> 00528R2_1		F3:Vo	tage SIR,EI
-00		1,2,3,6,7,8-HxCDD;34.97;5.11e3;72086	389.81 7.486e+00
%			
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0	33.28 33.30	33.99 34.10 34.37 34.68 35.56	mi
00528R2_1		F3:Vo	tage SIR,EI
00-]		1,2,3,6,7,8-HxCDD;34.97;4.16e3;61002	391.81 6.266e+00
1			
%-]		/ / 35.06 35.25 3.70e3	
	22.27		
	33.37	35.53	mi
0		24.00 24.00 24.00 24.00 25.00 25.00 25.00	
32.40 32.60 32.8	30 33.00 33.20 33.40 33.60 33.80	34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60	35.80
32.40 32.60 32.8 3C-1,2,3,4,7,8-HxCDD	30 33.00 33.20 33.40 33.60 33.80		35.80
0	33.00 33.20 33.40 33.60 33.80	F3:Vol	35.80 age SIR,EI 401.85
32.40 32.60 32.8 3 <b>C-1,2,3,4,7,8-HxCDD</b> 30528R2_1	30 33.00 33.20 33.40 33.60 33.80	F3:Vol 13C-1,2,3,6,7,8-HxCDD;34.95;5.18e5;7356837 13C-1,2,3,4,7,8-HxCDD 34.85	35.80 age SIR,El 401.85
32:40 32:60 32:8 3C-1,2,3,4,7,8-HxCDD 20528R2_1	30 33.00 33.20 33.40 33.60 33.80	F3:Vol 13C-1,2,3,6,7,8-HxCDD;34.95;5.18e5;7356837 13C-1,2,3,4,7,8-HxCDD	35.80 age SIR,El 401.85
32:40 32:60 32:8 3C-1,2,3,4,7,8-HxCDD 00528R2_1	30 33.00 33.20 33.40 33.60 33.80	13C-1,2,3,6,7,8-HxCDD;34.95;5.18e5;7356837 13C-1,2,3,4,7,8-HxCDD 34.85 3.89e5	35.80 age SIR,El 401.85
32:40 32:60 32:8 3C-1,2,3,4,7,8-HxCDD 00528R2_1	30 33.00 33.20 33.40 33.60 33.80	13C-1,2,3,6,7,8-HxCDD;34.95;5.18e5;7356837 13C-1,2,3,4,7,8-HxCDD 34.85 3.89e5	35.80 tage SIR,E 401.85 7.458e+00
32:40 32:60 32:8 3C-1,2,3,4,7,8-HxCDD 20528R2_1 % 0	30 33.00 33.20 33.40 33.60 33.80	F3:Vol 13C-1,2,3,6,7,8-HxCDD;34.95;5.18e5;7356837 13C-1,2,3,4,7,8-HxCDD 34.85 3.89e5 6042157	35.80 age SIR,EI 401.85 7.458e+00
32:40 32:60 32:6 3C-1,2,3,4,7,8-HxCDD 20528R2_1		F3:Vol 13C-1,2,3,6,7,8-HxCDD;34.95;5.18e5;7356837 13C-1,2,3,4,7,8-HxCDD 34.85 3.89e5 6042157 13C-1,2,3,6,7,8-HxCDD;34.95;4.09e5;5887449 F3:Vol	35.80 tage SIR,EI 401.85 7.458e+00 7.458e+00
32:40 32:60 32:8 <b>3C-1,2,3,4,7,8-HxCDD</b> 20528R2_1 0 0 	30 33.00 33.20 33.40 33.60 33.80	F3:Vol 13C-1,2,3,6,7,8-HxCDD;34.95;5.18e5;7356837 13C-1,2,3,4,7,8-HxCDD 34.85 3.89e5 6042157 13C-1,2,3,6,7,8-HxCDD;34.95;4.09e5;5887449 13C-1,2,3,4,7,8-HxCDD 34.85 A	
32:40 32:60 32:8 <b>3C-1,2,3,4,7,8-HxCDD</b> 20528R2_1 0 0 		F3:Vol 13C-1,2,3,6,7,8-HxCDD;34.95;5.18e5;7356837 13C-1,2,3,4,7,8-HxCDD 34.85 3.89e5 6042157 13C-1,2,3,6,7,8-HxCDD;34.95;4.09e5;5887449 13C-1,2,3,4,7,8-HxCDD 34.85 3.07e5	35.80 age SIR,EI 401.85 7.458e+00 7.458e+00
32:40 32:60 32:6 3C-1,2,3,4,7,8-HxCDD 00528R2_1 0 0 0 0 0 0 0 0 0 0 0 0 0		F3:Vol 13C-1,2,3,6,7,8-HxCDD;34.95;5.18e5;7356837 13C-1,2,3,4,7,8-HxCDD 34.85 3.89e5 6042157 13C-1,2,3,6,7,8-HxCDD;34.95;4.09e5;5887449 13C-1,2,3,4,7,8-HxCDD 34.85 A	35.80 age SIR,EI 401.85 7.458e+00 ייייייין mi age SIR,EI 403.85





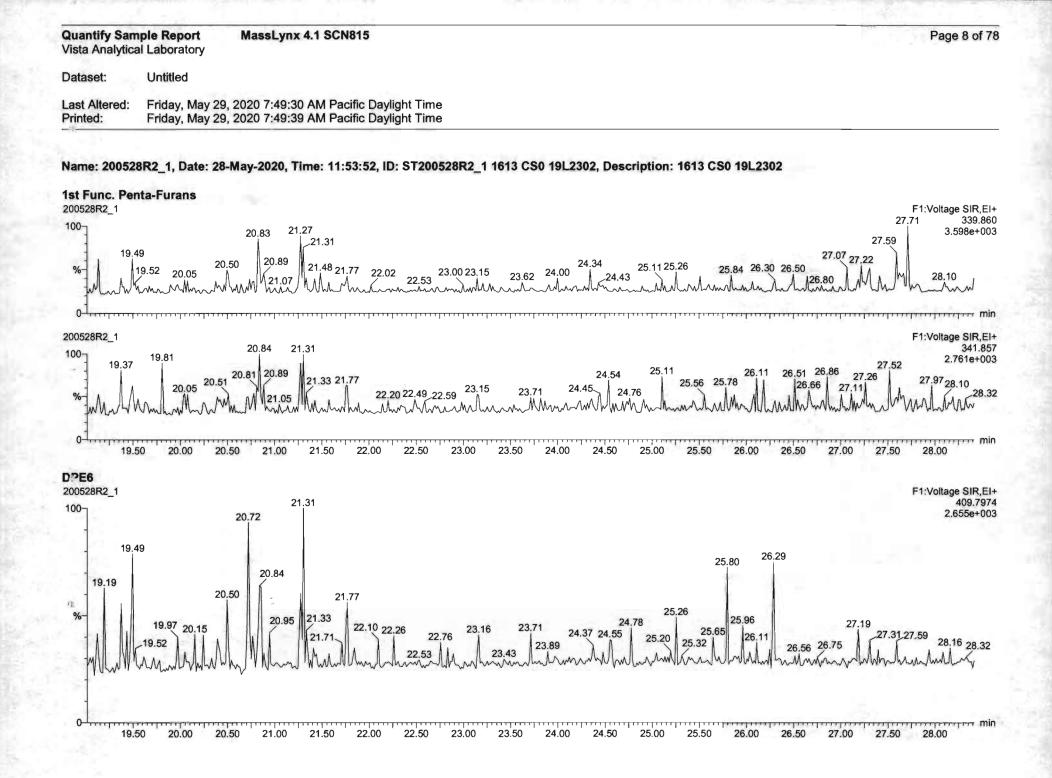


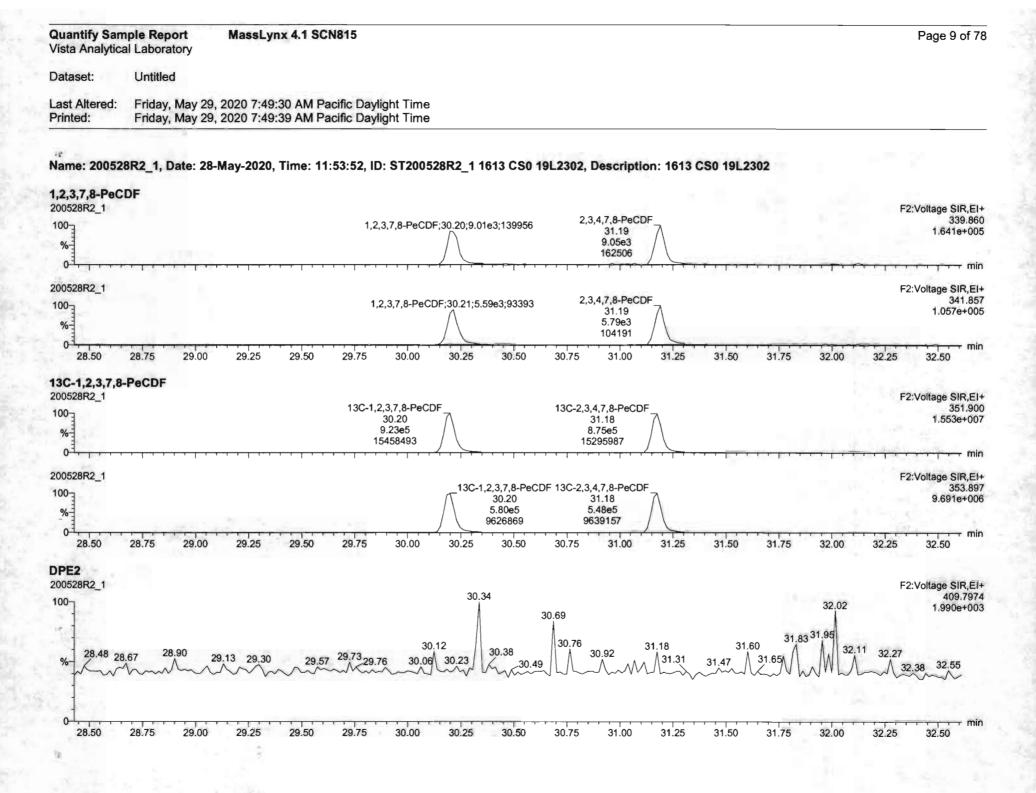


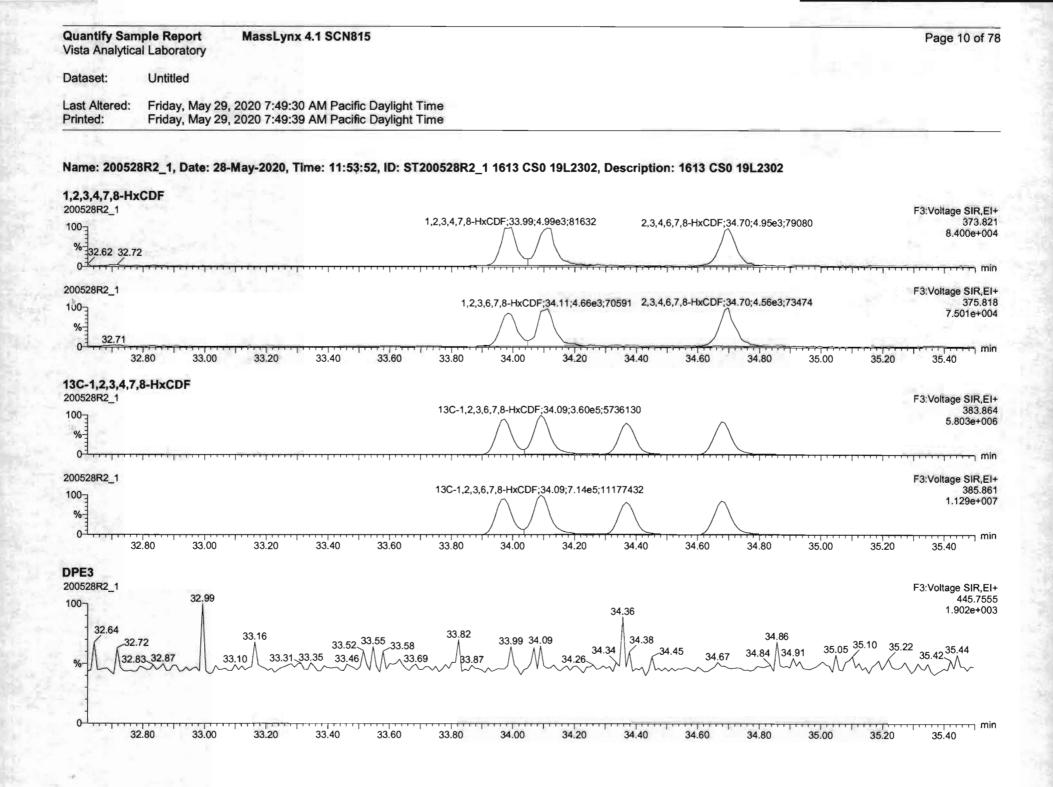
1.03e4 0.66 NO 8.03e3 1.27 NO 9.27e3 1.23 NO	0 6863 1 000 26 54 1 0 0 9081 1 000 31 50 1 0 1 0334 1 000 34 86 1 0	RRT         Conc.         %SRec.         DL         ENPC           1.000         0.213         35.2         0.0247         0.213           1.000         1.12         90.0         0.0292         1.13			
1.03e4 0.66 NO 8.03e3 1.27 NO 9.27e3 1.23 NO	0 9081 1.000 31.50 1.00 1.0334 1.000 34.86 1.00	1000 1.12 90.0 0.0292 1.13			
8.03e3 1.27 NO 9.27e3 1.23 NO	1.0334 1.000 34.86 1.04				
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1613 CSo 19L2302				a reduce of the description of t	F4 voltage Sil
113 CS0 19L2302		13C-OCDD 41 75 626402 94,7268	976	A reduce of second reduction to the second	F4 voltage Sil
613 CS0 19L2302		13C-OCDD 41 75 626402 94 7264	076		F4 voltage Sil
613 CSo 19L2302	arrea és cons	13C-OCDD 41 75 626402 94,7260	076	A sector of a factor of the fa	F4 voltage Sil
613 CS0 19L2302	arrean fan febr	13C-OCDD 41 75 626402 94 726	076		F4 wittage gif 47 7.308e
1613 CS0 19L2302 40,60 40.80	41'00 41.20	<u> </u>	076 200 42 20 42 40 42.60 42 50 43.60 43.20	43.40 42.60 43.80 44.00 44.20 44.40 44.50	F4 voltage SI 47
3 1 1 8 1 9 7 6 5 1 1 1 8 9	27e3         0.73         M0           46e4         161         M0           46e4         165         N0           92e3         1.25         N0           97e4         1.66         N0           91e3         1.25         N0           97e3         1.03         N0           26e3         0.96         N0           26e3         0.96         N0           00e6         0.64         N0           92e5         1.27         N0           113         CSD         19L2302	27e3         0.75         NO         0.7510         1.900         25.67         1           46e4         1.61         MO         0.825         1.900         30.26         1           1562         1.26         NO         0.825         1.900         30.26         1           1562         1.25         NO         0.8346         1.900         21.19         1           1562         1.25         NO         0.8845         1.900         23.96         1           1562         1.90         NO         0.8741         1.000         24.73         1           4562         1.19         NO         0.8741         1.000         24.73         1           2663         0.95         NO         0.8741         1.000         39.32         1           2764         0.87         NO         0.8741         1.000         39.32         1           2764         0.87         NO         0.8760         1.000         34.85         1           3865         1.27         NO         0.8650         1.000         34.85         1           3865         1.27         NO         1.0187         1.000         34.95 <td< td=""><td><math display="block"> \frac{27e_3}{46e_4} = \frac{0.73}{16} + \frac{100}{100} + \frac{2567}{100} + \frac{1001}{100} + \frac{0.222}{100} + \frac{1001}{100} + \frac{0.222}{100} + \frac{1001}{100} + \frac{0.222}{100} + \frac{1001}{100} + \frac{0.222}{100} + \frac{0.222}{100} + \frac{1001}{100} + \frac{100}{100} + \frac{1000}{100} + \frac{100}{100} + \frac{100}</math></td><td>27:43       NO       0.75       NO       0.75       1.00       222       91       0.012       0.22         46e4       1.61       NO       0.892       1.00       30.22       0.01       1.12       0.02       1.00         58e3       1.55       NO       0.894       1.00       1.12       0.02       0.036       1.12         58e3       1.55       NO       0.894       1.00       1.12       0.82       0.0364       1.12         58e3       1.15       NO       0.8971       1.00       1.12       89.2       0.0344       1.10         58e3       1.19       NO       0.8971       1.00       1.12       89.2       0.0344       1.10         51e3       1.09       NO       0.8971       1.00       1.12       89.2       0.0344       1.10         28e4       0.66       NO       0.8971       1.00       1.02       81.8       0.0624       1.00         28e4       0.66       1.00       1.62       1.00       1.02       81.8       0.0624       1.02         28e4       0.66       1.00       1.42       1.02       1.02       1.02       1.02       1.02     <td>2743       073       000       2743       000       2743       000       2743       000       2743       000       2743       000       2743       000       2723       000       02852       1000       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       1100       1100       1100</td></td></td<>	$ \frac{27e_3}{46e_4} = \frac{0.73}{16} + \frac{100}{100} + \frac{2567}{100} + \frac{1001}{100} + \frac{0.222}{100} + \frac{1001}{100} + \frac{0.222}{100} + \frac{1001}{100} + \frac{0.222}{100} + \frac{1001}{100} + \frac{0.222}{100} + \frac{0.222}{100} + \frac{1001}{100} + \frac{100}{100} + \frac{1000}{100} + \frac{100}{100} + \frac{100}$	27:43       NO       0.75       NO       0.75       1.00       222       91       0.012       0.22         46e4       1.61       NO       0.892       1.00       30.22       0.01       1.12       0.02       1.00         58e3       1.55       NO       0.894       1.00       1.12       0.02       0.036       1.12         58e3       1.55       NO       0.894       1.00       1.12       0.82       0.0364       1.12         58e3       1.15       NO       0.8971       1.00       1.12       89.2       0.0344       1.10         58e3       1.19       NO       0.8971       1.00       1.12       89.2       0.0344       1.10         51e3       1.09       NO       0.8971       1.00       1.12       89.2       0.0344       1.10         28e4       0.66       NO       0.8971       1.00       1.02       81.8       0.0624       1.00         28e4       0.66       1.00       1.62       1.00       1.02       81.8       0.0624       1.02         28e4       0.66       1.00       1.42       1.02       1.02       1.02       1.02       1.02 <td>2743       073       000       2743       000       2743       000       2743       000       2743       000       2743       000       2743       000       2723       000       02852       1000       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       0000       110       0000       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     0000       110       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       110       0000       1100       1100       1100

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3,7,8-TCDF 0528R2_1											_				F1:Voltage SIR,E
									2,	3,7,8-TCDF 25.68	7				303.90 1.943e+0
19.39 19.5	51	20.42 20.74 20.84	21.32 21.78 21	.93	22.95		23.83	24.45	24.96	1.38e3 18248	25.93	26.33 26.48	27.08		
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107									2,	3,7,8-TCDF 25.66	71 20.0	66			F1:Voltage SIR, 305.8 2.540e+0
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0 19.5	minim					<del></del>	23.83	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	4.72	****	1. V.	min finn	TTTTTTTT		Initiation l
19.5	50 20.00	20.50 21.00	21.50 2	2.00 22.50	23.00	23.50	24.00	24.50	25.0	0 25.5	0 26.00	26.50	27.00	27.50	28.00
C-2,3,7,8-T	CDF														F1:Voltage SIR,E
0020102_1				13C-1,2	2,3,4-TCDF;2	24.22;7.236	5;8628790			8,7,8-TCDF 5.65	7				315.94 1.161e+0
%							7	/	8.	.47e5 517468	$\wedge$				1.101640
officer for				.,,.,.,.,.,,.,		, <del>, , , , , , , , , , , , , , , , , , </del>		<u>h</u>	······	····	/				n
0528R2_1									100.00						F1:Voltage SIR,E
Eo				13C-1,2,3	3,4-TCDF;24	1.22;9.23e	5;10882652	\	2	8,7,8-TCDF	7				317.9 1.495e+0
%							/			11e6 379003	/				
0-1	50 20.00	20.50 21.00	21.50 2	2.00 22.50	23.00	23.50		24.50	25.0	0 25.5	0 26.00	26.50	27.00	27.50	28.00
PE1															
0528R2_1															F1:Voltage SIR,
0															375.83 3.206e+0
-		20.84 21.2	21.31	22.08											
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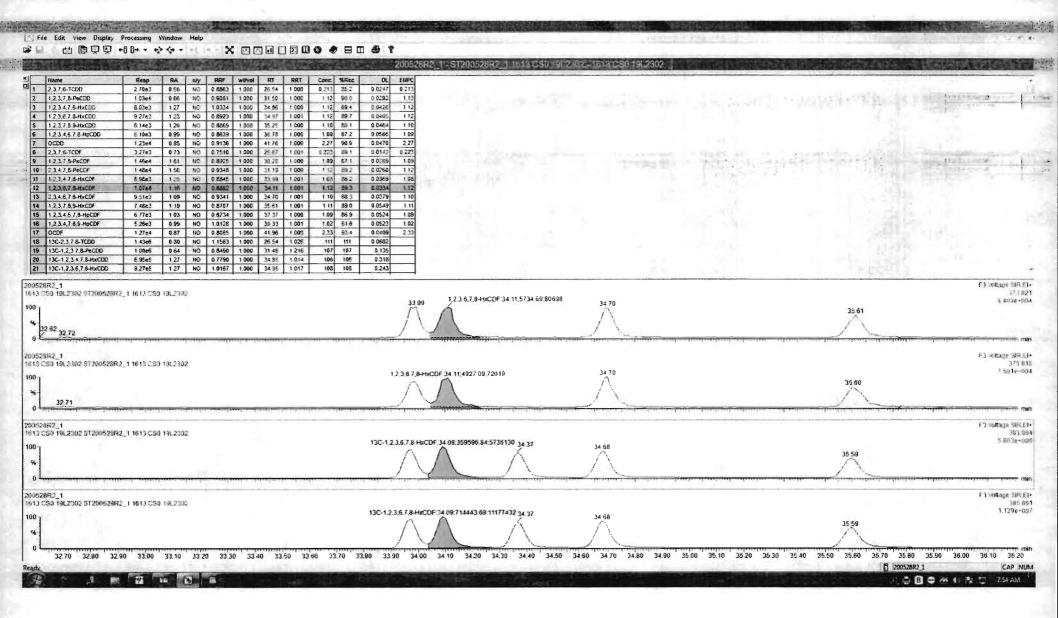
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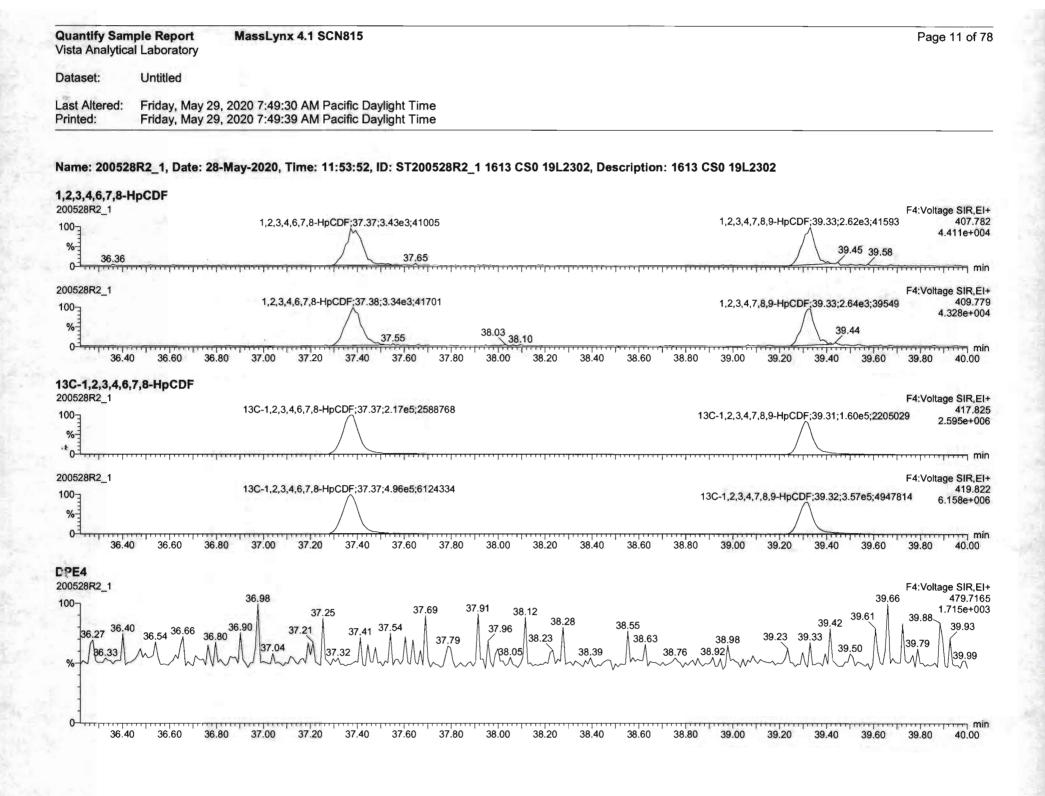


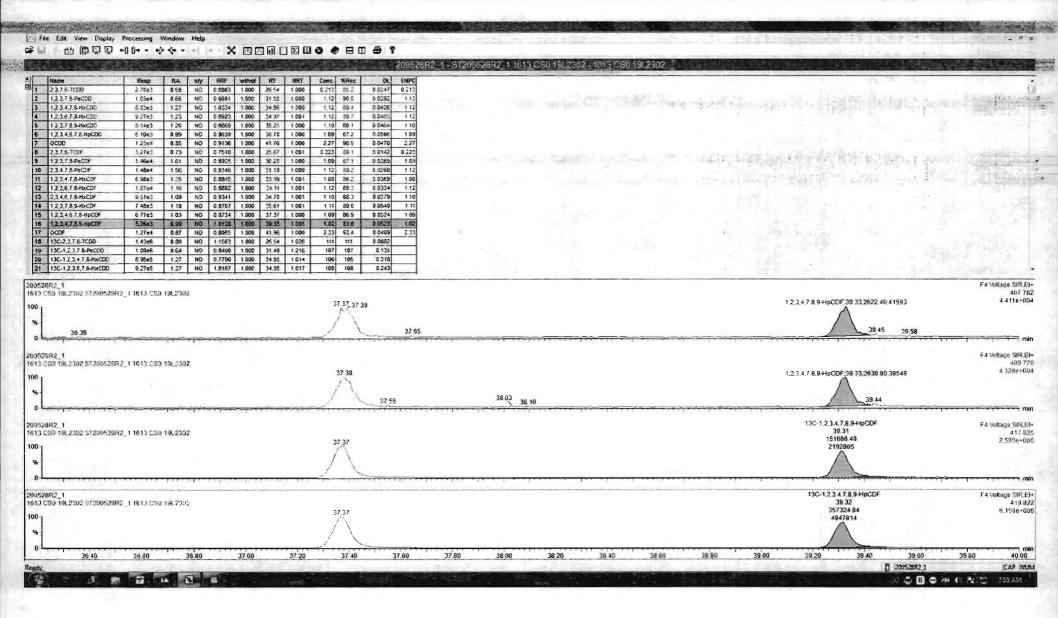


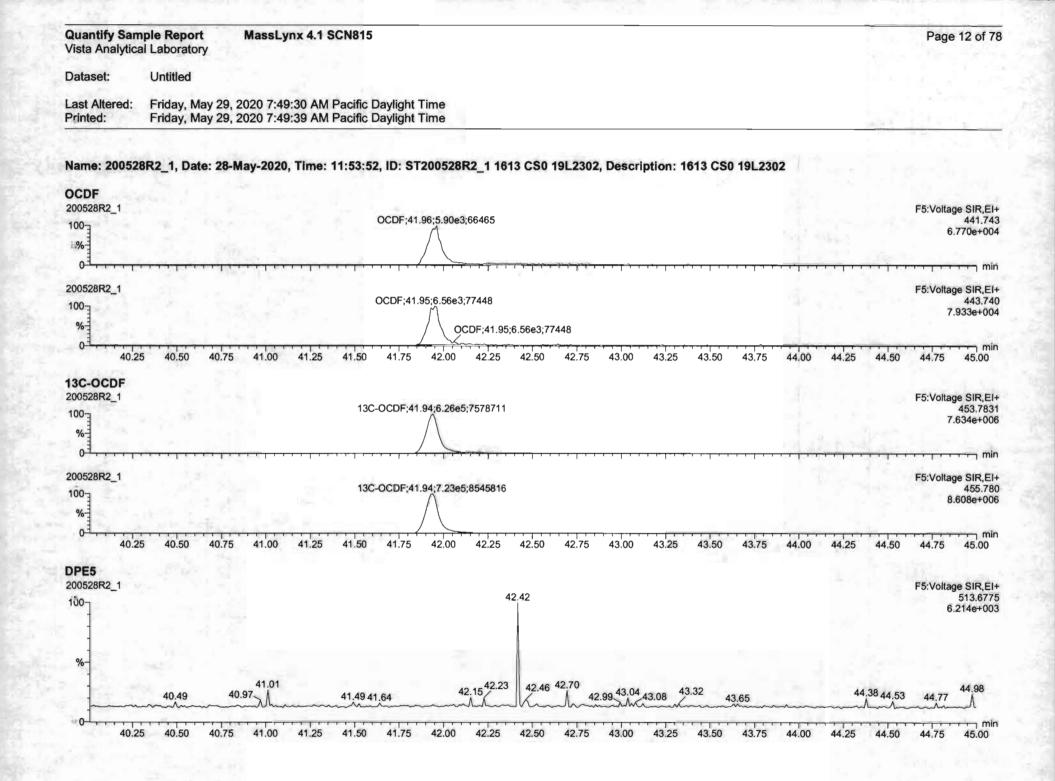
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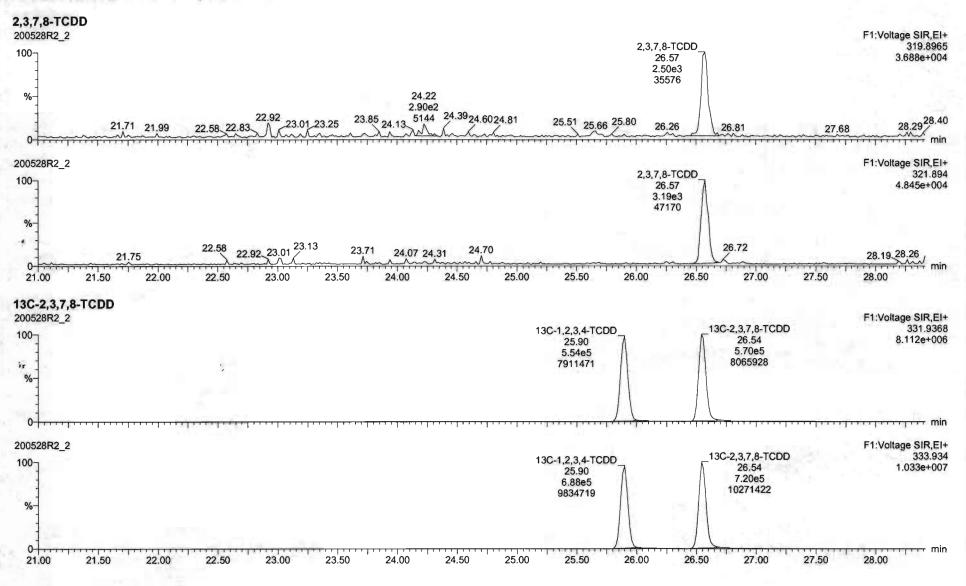


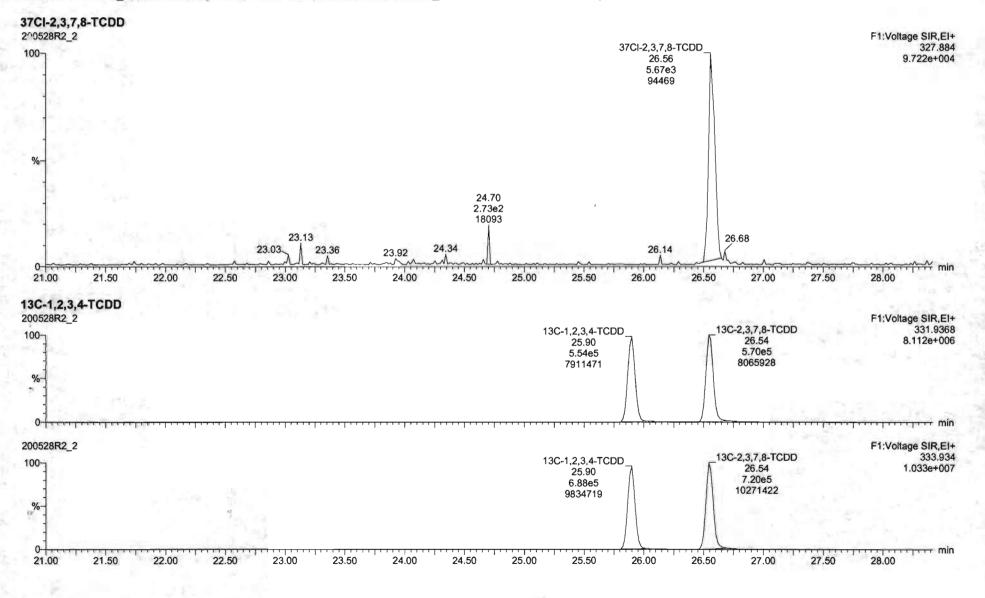
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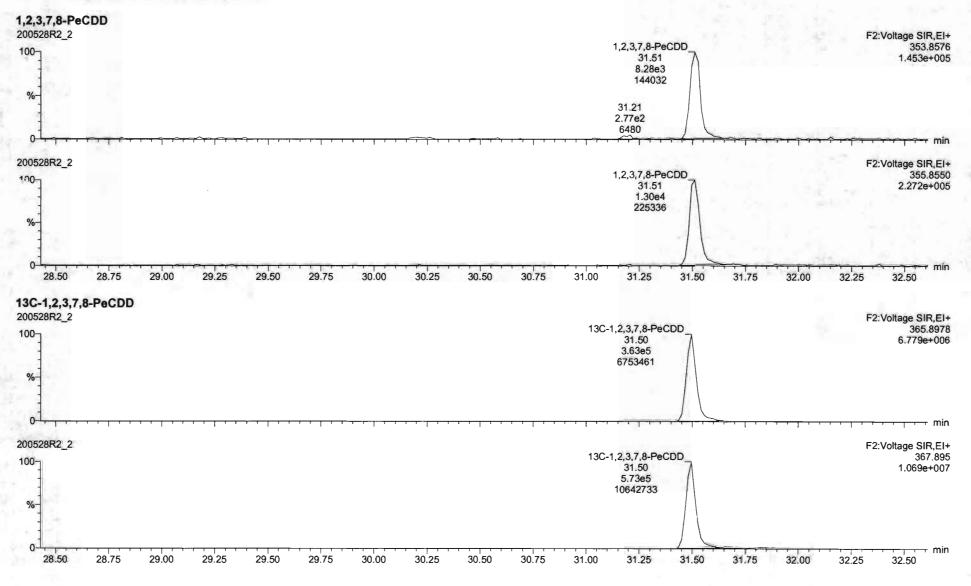
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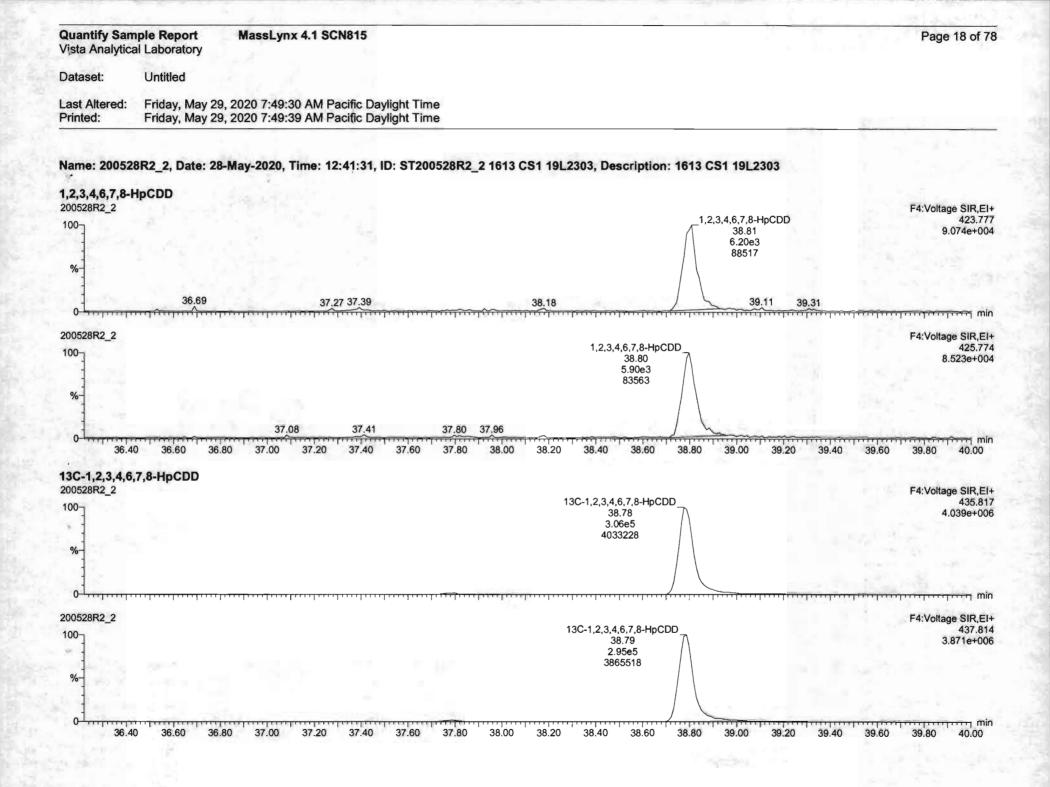
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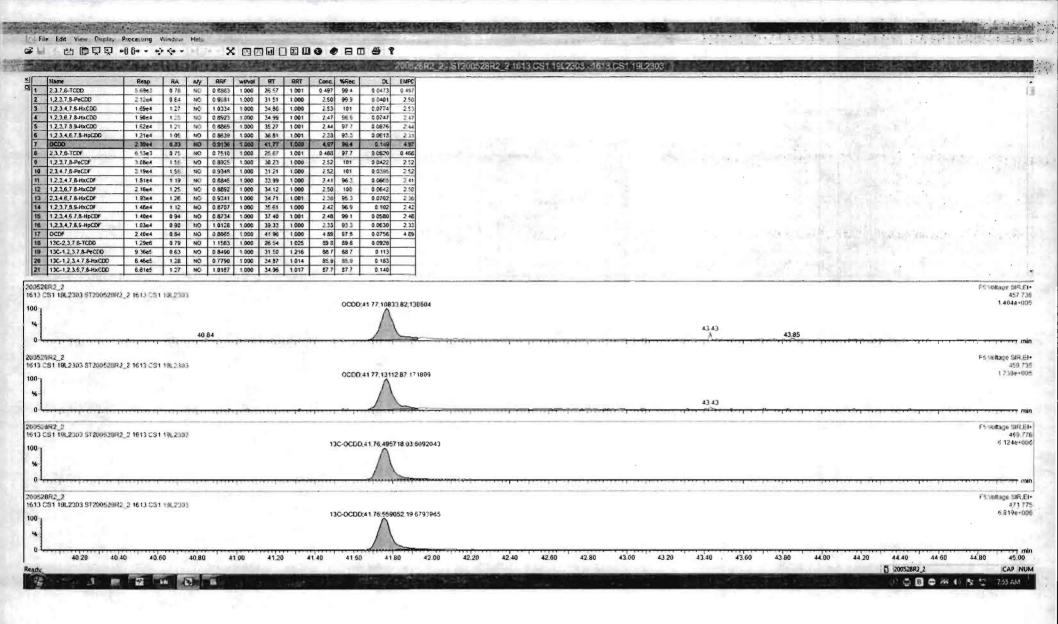
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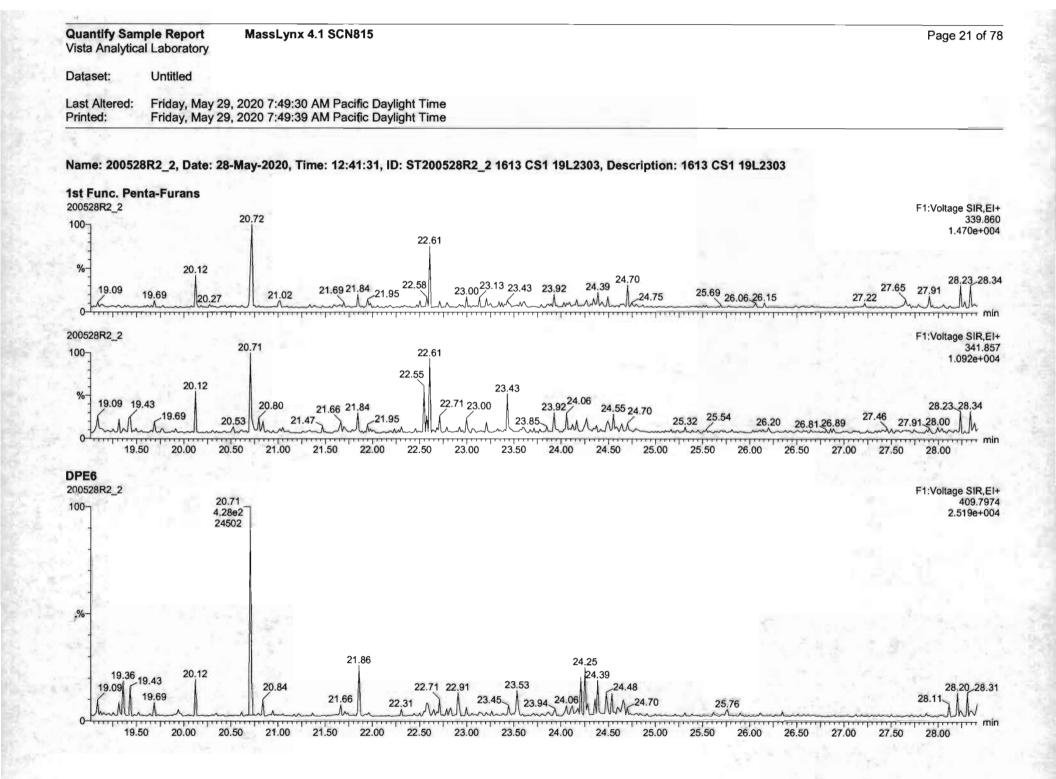
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3,7,8-TCDF 00528R2_2														F1:Voltage SIR,E
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00		4.95e2 24591	Тс	otal Tetra-Furan	is;22.58;4.55	92;30244			25.68 3.73e3					5.412e+0
3 13.22 /	.45 19.91 20.3	1	0.86	21,96	22.94	23.62	3.83 24.21	24.66	52790	25.85			27.50	28.32
0 hannan 19.5	0 20.00 2	20.50 21.0	00 21.50	22.00 22	2.50 23.0	0 23.50	24.00		25.00 25.50	26.00	26.50	27.00	27.50	28.00
C-2,3,7,8-TO	CDF													
0528R2_2				13C	-1,2,3,4-TCD	F;24.22;8.00e5	;9677724	130	-2,3,7,8-TCDF_					F1:Voltage SIR, 315.94
E							λ		25.66 7.77e5					1.069e+0
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00520R2_2				13C-1	1,2,3,4-TCDF	;24.22;1.03e6;	12290426	13C	-2,3,7,8-TCDF					317.9
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19.5														F1:Voltage SIR,E
19.50 PE1														375.83 2.898e+0
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<b>1,2,3,7,8-PeC</b> 200528R2_2 100	DF 1,2,3,7,8-PeCDF;30.23;1.87e4;316381 2,3,4,7,8-PeCDF 31.21 1.94e4 358772	F2:Voltage SIR,EI+ 339.860 3.602e+005
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F2:Voltage SIR,EI+

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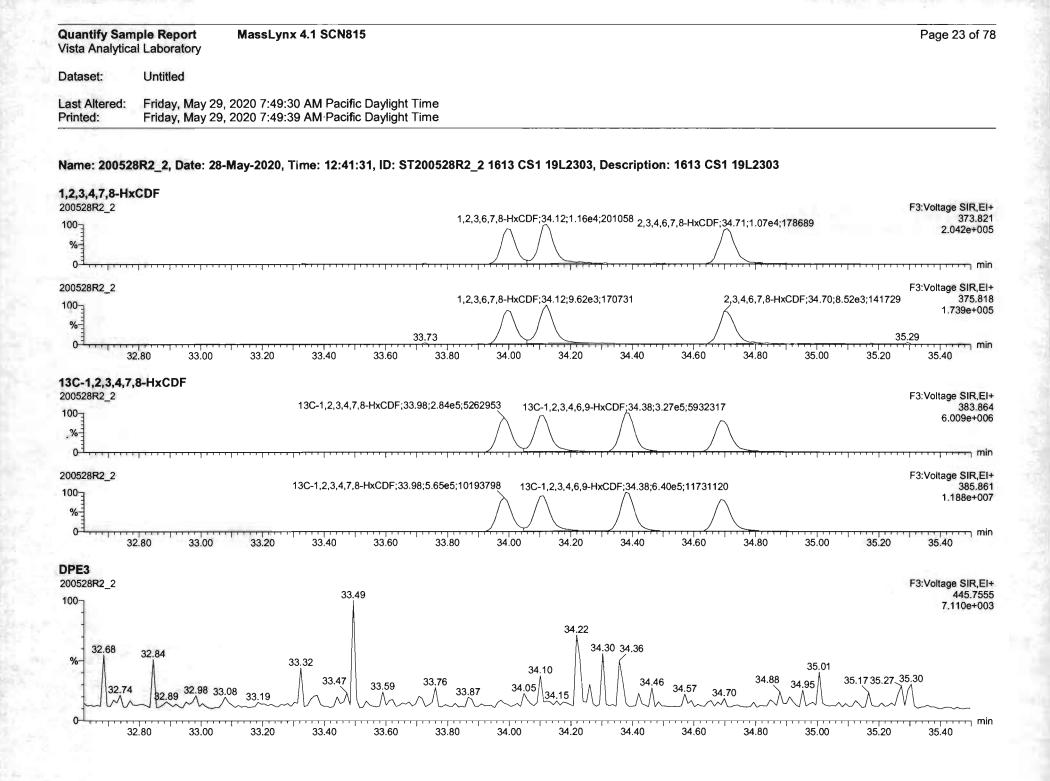
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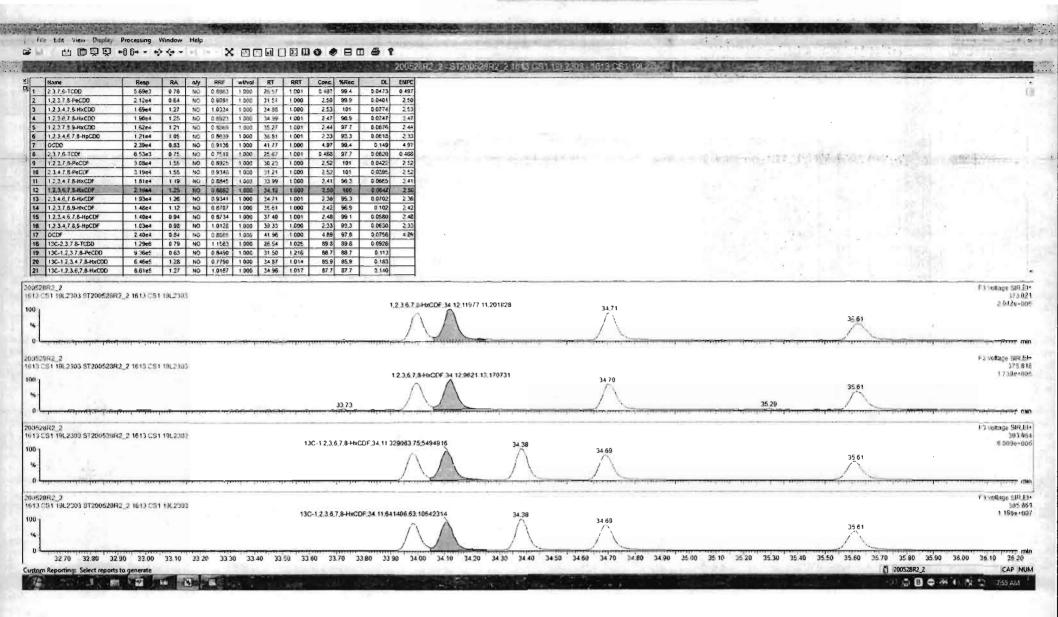
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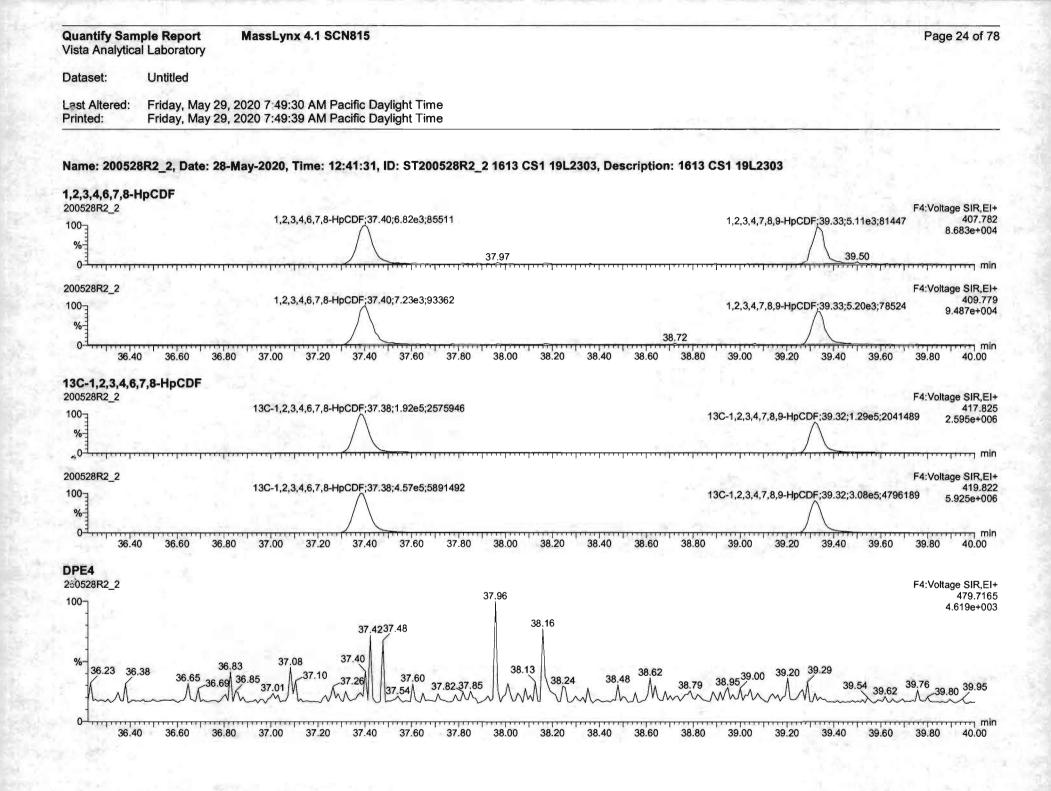
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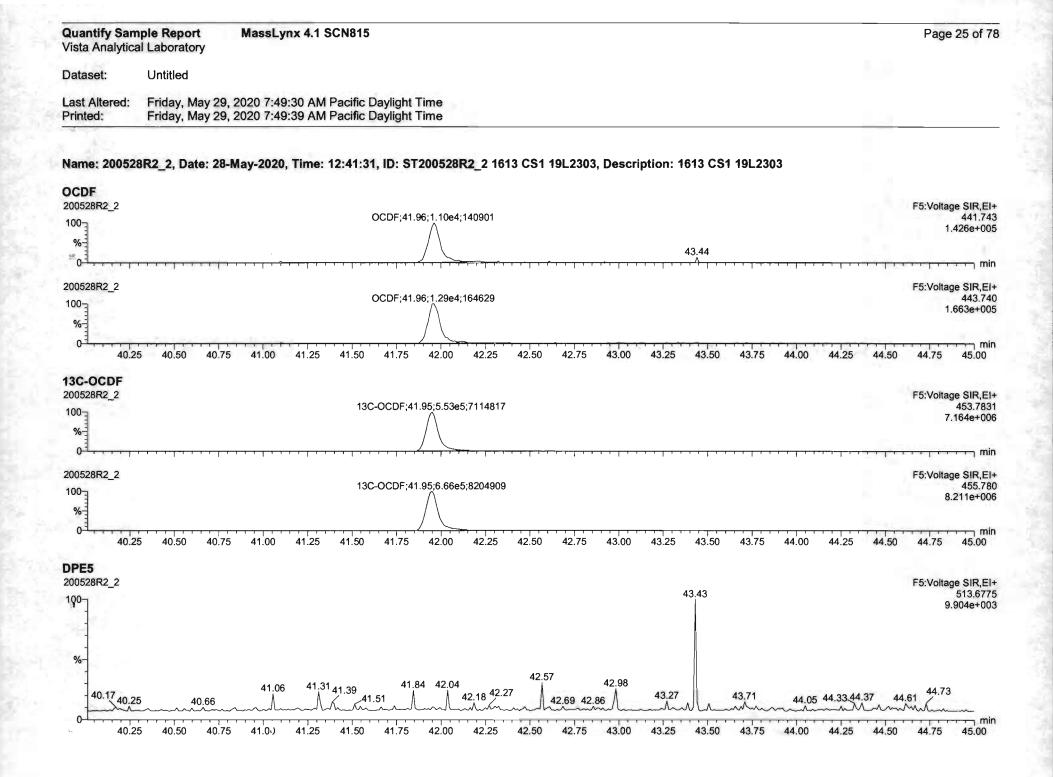
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14ame	Resp RA My RR 5-69e3 0.76 NO 0.85	the second se	Conc. %Rec 0 497 99 4 0	DL EMPC				
1,2.3.7,8-PeCDD	212e4 084 NO 090			0401 2.50				
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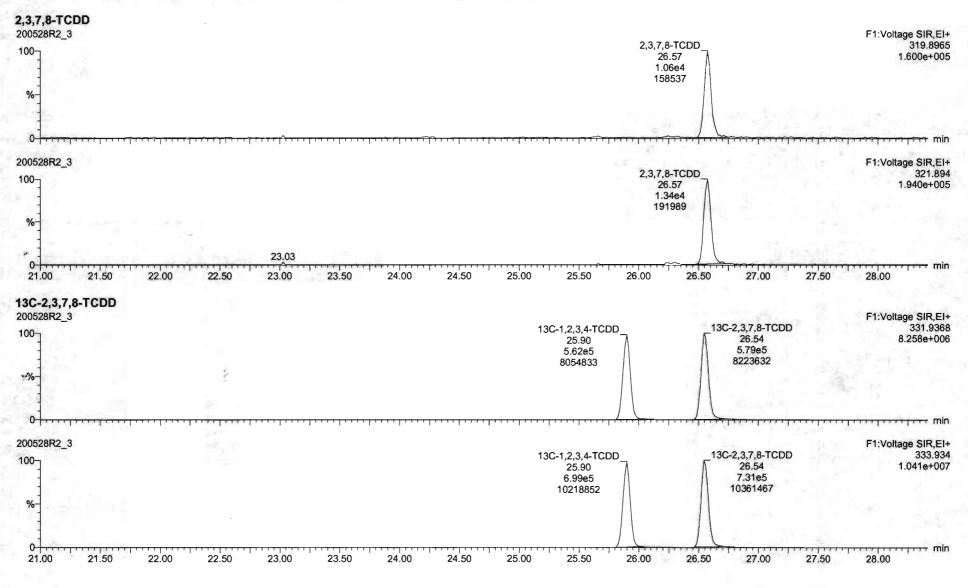


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Name	Reap R	ny RRF	NTVOI RT RR	T Conc. %Riec	OL EMPC							
2.3.7.6-TCDD	5.69e3 0		1000 26.57 1.00		0.0423 0.497							
1,2,3,7,8-PeCDO	2.12e4 0.6		1.000 31.51 1.00		0 0401 2 50							
1.2.3.4.7.8-HxCDD	1 85e4 1 2		1 000 34 88 1.00		0.0774 2.53							
1.2.3.6.7.8-HxCDD	1 90e4 1.		1 000 34 99 1 00		0.0747 2.47							
1 7.3.7 8 9-HxCDD 1,2.3 4,6 7,8-HpCDD	1.6284 1.2		1 000 35 27 1 00		0 0876 2 44							
0CDD	121e4 1.6		1 000 36 51 1 00 1 000 41 77 1 00		0.0618 2.33							
2.3.7.6-TCDF	653e3 03		1 000 25 67 1 00		0.0620 0.488							
1,2,3,7,8-PeCOF	3.05e4 1.5		1 000 30 23 1 00		0.0422 2.52							
2,3 4,7,8-PeCLF	3 1564 1.5		1000 3121 100		0.0395 2.52							
1.2,3,4.7,8-HxCDF	181e4 1		1 000 33 99 1 00		0.0665 2.41		14					
1,2.3,6,7 8-HACOF	21664 1		1.000 34.12 1.00		0.0642 2.50							
2.3.4.6.7.8-HxCDF 1.2.3.7.8.9-HxCDF	193e4 12 146e4 1		1 000 34 71 1 00 1 000 25 61 1 00		0 0702 2 36							
1.2.3.4 6 7.8-HpCDF	1 40e4 0 5		1 000 37 40 1 00		0.0580 2.48							
1.2.3.4.7.6.5-HpCDF	1.03e4 0.6		1 000 39.33 1.00		0.0630 2.33							
OCOF	2.40e4 0.3	10 0.8085	1.000 41.96 1.00	0 4.89 97.8	0.0756 4.39					34		
13C-2,3,7 8-TCDD	1 2966 0		1 000 26 54 1 02		0 09:76							
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	12 1613 CS1 19L				OCDF, 41 95, 1095	1.58,140901			43.44	<del>۲. ۴۰۲۳, ۴۰۰ , ۲۰۰۰</del>	<del>، «د کار» در از معالی در سرا</del>	A 1.14 1.16 1.16 1.
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S1 19L2303 ST20052881		<del></del>	<del></del>		OCDF, 41 95, 1095				43.44	₩ <del>₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</del>	<del>د در کرد در در در در</del>	1 42 
\$1 18L2303 \$T200528R1		<del></del>					n far te ige en de ser de se	(+>-)	43.44	<del>₩ ₩1₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</del>	<del>n Selada en la cinecembr</del>	1 #3 
S1 TRL2303 ST20052881		<del></del>					a ya a sa	and the second	43,44	<del>* - ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		1 #3 
\$1 18L2303 \$720052881		<del></del>			OCDF 41 96, 1308				43,44 ∽,,^,	<sup>19.</sup> 3.179,50,17		1 #3 
S1 19L2303 ST200528R1 R2_2 S1 19L2303 ST200523R: R2_2	2, 2 1613 (35 19),				OCDF 41 96, 1308	98,164307			43,44 ∽,,^,,,	<sup>19.</sup> <sup>2</sup> ,1 <sup>29,22</sup> ,1 <sup>27,12</sup> ,1		1 #3 
S1 19L2303 ST200528R1 	2, 2 1613 (35 19),				OCDF 41 96, 1309	9.98,184307			43,44 ∽,~~~,^~,~,~,~,~,~,~,~,~,~,~,~,~,~,~,~,~	<sup>19</sup> <sup>2</sup> +1 <sup>-2</sup> )- <sup>2</sup> -1 <sup>2</sup> -	• • • • • • • • • • • • • • • • • • •	9 at F5 voltage 1 6f 55 voltage F5 voltage
S1 18L2303 ST200528R1 (R2_2 S1 19L2303 ST200523R: (R2_2 S1 19L2303 ST200523R)	2, 2 1613 (35 19),			- 4 - Profession - 1 - 1 - 1	OCDF 41 96, 1308	9.98,184307			43,44			FS Voltage 1 St 1 St 5 Voltage
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S1 TRL2303 ST200528R3 R2_2 S1 TRL2303 ST200528R3 R2_2 S1 TRL2303 ST200528R3 R2_2 S1 TRL2303 ST200528R3 R2_2 S1 TRL2303 ST200528R3	2, 2 1613 (35 19), 2, 2 1613 (35 19), 2, 2 1613 (35 19),	302			OCDF 41 96, 1309	9.98,184307	. I		43.44			F5 Voltage F5 Voltage F5 voltage 4 7 ti F5 voltage
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81 19L2303 ST200528R3 19-11-21-22 R2_2 S1 19L2303 ST200528R3 R2_2 S1 19L2303 ST200528R3 R2_2 S1 19L2303 ST200528R3	2, 2 1613 (35 19), 2, 2 1613 (35 19), 2, 2 1613 (35 19),	302		WILL E	OCDF 41 96, 1309	38.00,7114817			43.44	(*************************************	بر از	F5 voltage F5 voltage F5 voltage F5 voltage F5 voltage
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Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory			1.19	Page 26 of
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me: 200528R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19	9L2303, Description: 1	613 CS1 19L2303		
<b>K1</b> <sup>J528R2_2</sup> 19.40;9.78e4;684562			27.73;1.41e4;140	F1:Voltage SIR,
20.63 21.10 21.4521.72 22.62;1.18e4;172164 23.82;5.59e3;1	14486 24.96;4.82e4;2657	10 26.03;1.28e4;199282	27.73, 1.4164, 140	316.98
6				
19.50 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.0	00 24.50 25.00	25.50 26.00 26.5	0 27.00 27.	50 28.00
<b>(2</b> 528R2 2				
	30.73 30.87 31.04	31.30 31.50 31.62 31.	31.85 32.05 32	F2:Voltage SIR, 2.23 32.41 366.9 1.6236+0
28.49				1.0238+0
			****	n
	30.75 31.00 31	.25 31.50 31.7	5 32.00 3	32.25 32.50
28.50 28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50	30.75 31.00 31	.25 31.50 31.7	5 32.00 3	32.25 32.50
28.50 28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 <b>(3</b> 528R2_2 23.50 <sup>33.63</sup>	24 70-4 0104-942659	.25 31.50 31.7 35.07;5.76e4;1101461 35.		52.25 32.50 F3:Voltage SIR, 68 35.79 380.9
$\begin{array}{c} \hline & & \\ \hline & & \\ 28.50 & 28.75 & 29.00 & 29.25 & 29.50 & 29.75 & 30.00 & 30.25 & 30.50 \\ \hline & & \\ \hline & & \\ \hline & & \\ 528R2\_2 \\ \hline & & \\ \hline & & \\ \hline & & \\ 32.64 \end{array}$	24 70-4 0104-942659			52.25 32.50 F3:Voltage SIR, 68 35.79 380.9
$\begin{array}{c} \hline & & \\ 28.50 & 28.75 & 29.00 & 29.25 & 29.50 & 29.75 & 30.00 & 30.25 & 30.50 \\ \hline \textbf{(3)} \\ 528\text{R2}\_2 \\ \hline & & 32.81 & 32.96 & 33.11 & 33.24 \\ \hline & & & & & & & & & & & \\ 32.64 & & & & & & & & & & & & & \\ \hline & & & & &$	34.79;4.91e4;843658	35.07;5.76e4;1101461 35.		52:25 32:50 F3:Voltage SIR, 68 35.79 380.9 9:504e+(
28.50 28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 (3 32.81 32.96 33.11 33.24 33.58 33.63 34.10 34.36 32.64	34.79;4.91e4;843658	35.07;5.76e4;1101461 35.		32.25 32.50 F3:Voltage SIR, .68 35.79 380.9 9.504e+1
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$\begin{array}{c} 28.50 & 28.75 & 29.00 & 29.25 & 29.50 & 29.75 & 30.00 & 30.25 & 30.50 \\ \hline \textbf{(3)} \\ 528R2_2 \\ \hline \textbf{(3)} \\ 32.64 \\ \hline \textbf{(3)} \\ 32.80 & 33.00 & 33.20 & 33.40 & 33.60 & 33.80 & 34.00 & 34.20 & 34.4 \\ \hline \textbf{(4)} \\ 528R2_2 \\ \hline \textbf{(5)} \\ 53.60 \\ \hline \textbf{(5)} \\ 53.60 \\ \hline \textbf{(5)} \\ 53.60 \\ \hline \textbf{(5)} \hline \textbf{(5)} \hline \textbf{(5)} \\ \hline \textbf{(5)} \hline \textbf$	34.79;4.91e4;843658 3 40 34.60 34.80	35.07;5.76e4;1101461 35.	3335.42 35.56 35.	F3:Voltage SIR, 68 35.79 380.9 9.504e+1 35.80 36.0 F4:Voltage SIR,
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$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	34.79;4.91e4;843658       3         40       34.60       34.80         38.3038.40       38.60       38.67         0       38.40       38.60       3	35.07;5.76e4;1101461 35. 35.00 35.20 7 38.84 39.16 38.80 39.00 39.20	3335.42 35.56 35. 35.40 35.60 39.42	F3: Voltage SIR, 68 35.79 380.9 9.564e+1 35.80 36.0 F4: Voltage SIR, 430.9 39.827.813e+1 0 39.80 40.0 F5: Voltage SIR,
$\begin{array}{c} 28.50 & 28.75 & 29.00 & 29.25 & 29.50 & 29.75 & 30.00 & 30.25 & 30.50 \\ \hline & & & & & & & & \\ 32.81 & 32.96 & 33.11 & 33.24 & 33.58 & 33.63 & 34.10 & 34.36 \\ \hline & & & & & & & & & & \\ 32.80 & 33.00 & 33.20 & 33.40 & 33.60 & 33.80 & 34.00 & 34.20 & 34.4 \\ \hline & & & & & & & & & \\ 32.80 & 33.00 & 33.20 & 33.40 & 33.60 & 33.80 & 34.00 & 34.20 & 34.4 \\ \hline & & & & & & & & & \\ 36.49 & 30e5;3526245 & 36.87 & 36.99 & 37.29 & 37.34 & 37.50 & 37.63 & 37.81 & 37.95 \\ \hline & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & \\ 32.80 & 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & \\ 32.882 & 2 & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & & & & & & & &$	34.79;4.91e4;843658 3 3 3 3 3 3 3 3 3 3 3 3 3	35.07;5.76e4;1101461 35. 35.00 35.20 7 38.84 39.16 38.80 39.00 39.20	3335.42 35.56 35. 35.40 35.60 39.42	52.25 32.50 F3:Voltage SIR, 68 35.79 380.9 9:504e+ 35.80 36.0 F4:Voltage SIR, 430.9 39.827.813e+ 0 39.80 40.0
$\begin{array}{c} 28.50 & 28.75 & 29.00 & 29.25 & 29.50 & 29.75 & 30.00 & 30.25 & 30.50 \\ \hline & & & & & & & & \\ 32.872_2 \\ 32.81 & 32.96 & 33.11 & 33.24 & 33.58 \\ \hline & & & & & & & & & \\ 32.80 & 33.00 & 33.20 & 33.40 & 33.60 & 33.80 & 34.00 & 34.20 & 34.4 \\ \hline & & & & & & & & \\ 32.80 & 33.00 & 33.20 & 33.40 & 33.60 & 33.80 & 34.00 & 34.20 & 34.4 \\ \hline & & & & & & & \\ 32.872_2 \\ \hline & & & & & & & & \\ 36.49_{19}.30_{25};3526245 & 36.87 & 36.99 & 37.29 & 37.34 & 37.50 & 37.63 & 37.81 & 37.95 \\ \hline & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & & & & & & \\ 36.40 & 36.60 & 36.80 & 37.00 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 \\ \hline & & & & & & & & & & & & & & & & & &$	34.79;4.91e4;843658       3         40       34.60       34.80         38.3038.40       38.60       38.67         0       38.40       38.60       3	35.07;5.76e4;1101461 35. 35.00 35.20 7 38.84 39.16 38.80 39.00 39.20	3335.42 35.56 35. 35.40 35.60 39.42 39.40 39.60	52.25 32.50 F3:Voltage SIR 58 35.79 380.9 9:504e+ 35.80 36.0 F4:Voltage SIR 430.9 39.827.813e+ 39.827.813e+ 39.80 40.0 F5:Voltage SIR

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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



Dataset:       Untiled         ast Altered:       Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time         tame: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304       F1:Voltage SITE         tame: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304       F1:Voltage SITE         000528R2_3       77CL-23.7.8-TCDD       77CL-23.7.8-TCDD       77CL-23.7.8-TCDD         000528R2_3       21.50       22.50       23.00       24.00       24.50       25.50       26.00       26.50       27.00       27.50       28.00       27.60       27.50       28.50       77.00       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00       27.60       27.50       28.00 <t< th=""><th>Altered:       Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time         reted:       Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time         ne:       200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1         H-2,3,7,8-TCDD       37CL         28R2_3       37CL         100       21.50       22.50       23.00       23.50       24.00       24.50       25.00       25.50       26         +1,2,3,4-TCDD       37CL       37CL       37CL       37CL       37CL       37CL         100       21.50       22.00       22.50       23.00       23.50       24.00       24.50       25.00       25.50       26         13C-12,3,4-TCDD       300       23.50       24.00       24.50       25.00       25.50       26         13C-12,3,4-TCDD       300       23.50       24.00       24.50       25.00       25.50       26         13C-12,3,4-TCDD       300<!--</th--><th></th><th>Page 28 of 7</th></th></t<>	Altered:       Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time         reted:       Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time         ne:       200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1         H-2,3,7,8-TCDD       37CL         28R2_3       37CL         100       21.50       22.50       23.00       23.50       24.00       24.50       25.00       25.50       26         +1,2,3,4-TCDD       37CL       37CL       37CL       37CL       37CL       37CL         100       21.50       22.00       22.50       23.00       23.50       24.00       24.50       25.00       25.50       26         13C-12,3,4-TCDD       300       23.50       24.00       24.50       25.00       25.50       26         13C-12,3,4-TCDD       300       23.50       24.00       24.50       25.00       25.50       26         13C-12,3,4-TCDD       300 </th <th></th> <th>Page 28 of 7</th>		Page 28 of 7
Printed:       Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time         Jame: 200528R2_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304       F1:Voltage SIRE         Strong       37Ci-23.7,8-TCDD       F1:Voltage SIRE         Strong       23:0e4       32:39e4         32:39e4       32:39e4       32:39e4         30:02282,3       22:00       22:30       23:00       23:50       24:00       24:50       25:50       26:00       26:50       27:00       27:50       28:00         30:03:282,3       130:12.3.4 TCDD       130:12.3.4 TCDD       130:12.3.4 TCDD       130:23.7,8 TCDD       F1:Voltage SIRE         0005:282,3       130:12.3.4 TCDD       130:12.3.4 TCDD       130:12.3.4 TCDD       130:12.3.4 TCDD       F1:Voltage SIRE         0005:282,3       130:12.3.4 TCDD       130:12.3.4 TCDD       130:12.3.4 TCDD       130:12.3.7 & TCDD       53:13:82         0001       130:12.2.3.7 & TCDD       130:12.2.3.7 & TCDD       130:12.3.7 & TCDD       130:12.3.7 & TCDD       130:12.3.7 & TCDD       130:13:3.8 & 33:13:8	ted:       Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time         ne: 20052882_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2_3 1613 CS2 19L2304, Description: 1         1-1-2,3,7,8-TCDD         2882_3         37C-         1         1         1         21.50         22.00         22.50         23.00         24.00         24.50         25.00         25.00         25.80         58282_3         13C-1,2,3,4-TCDD         28282_3         13C-1,2,3,4-TCDD         28282_3         13C-1,2,3,4-TCDD		
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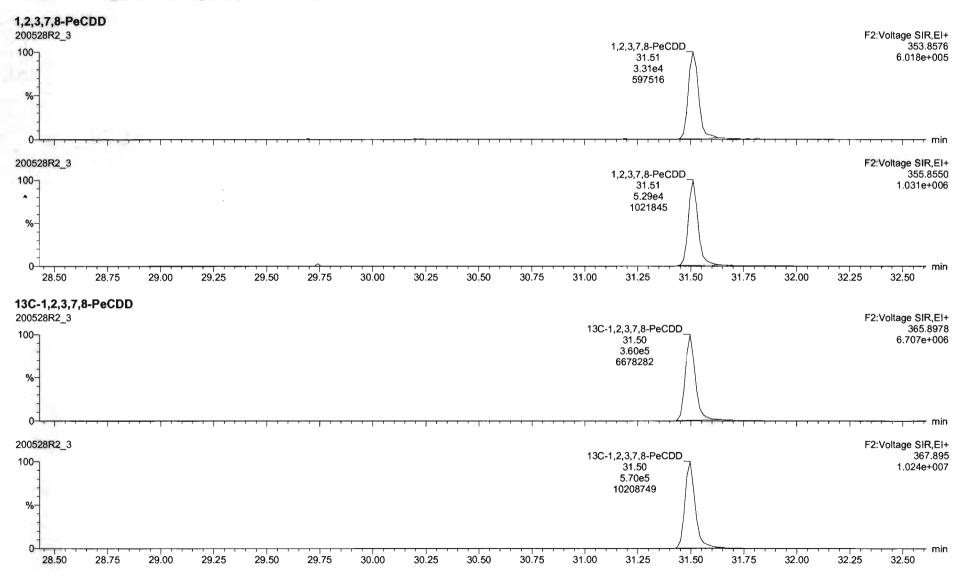
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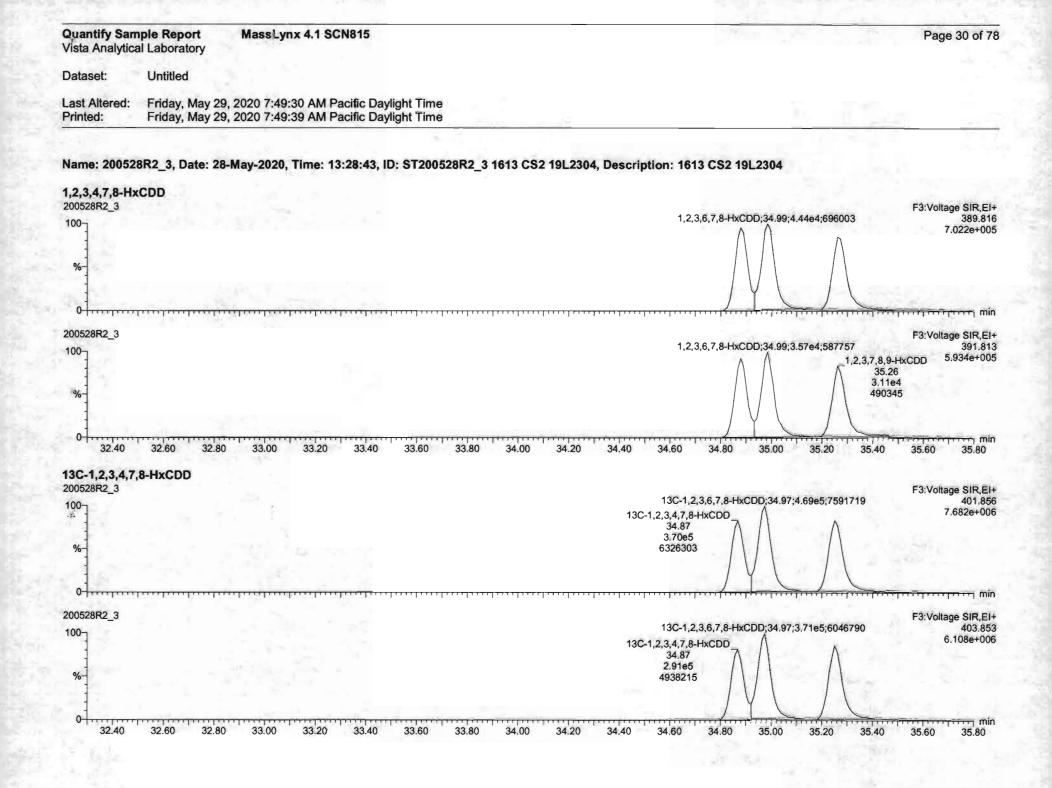
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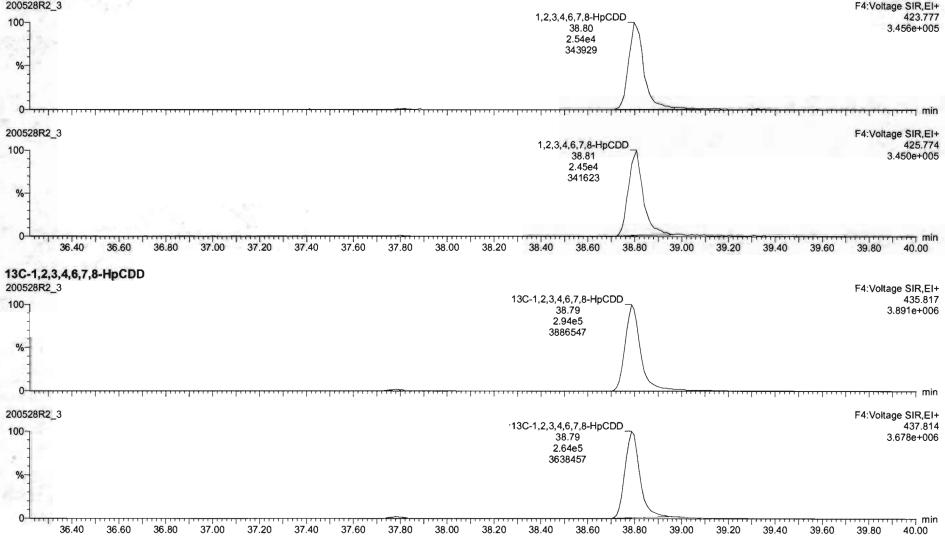
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## Name: 200528R2\_3, Date: 28-May-2020, Time: 13:28:43, ID: ST200528R2\_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



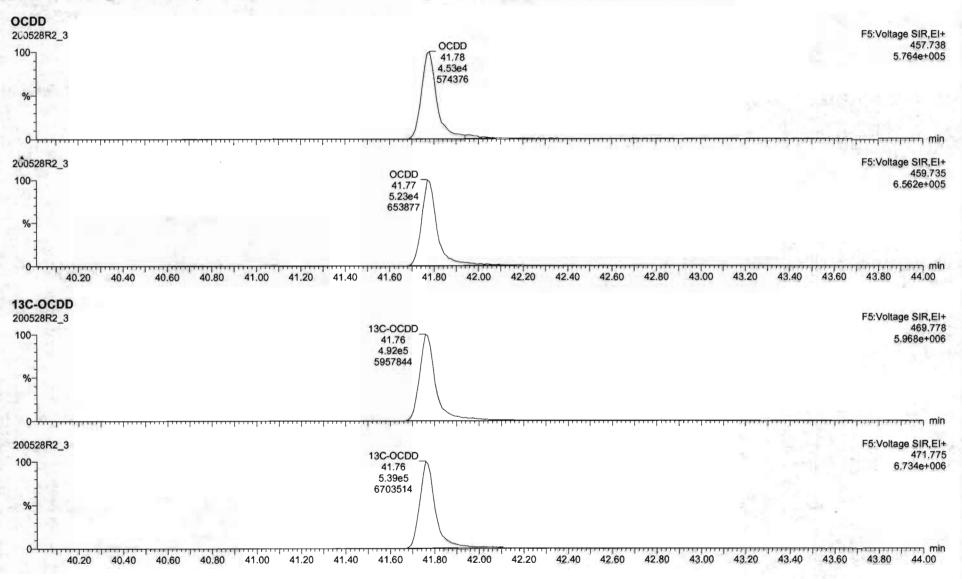


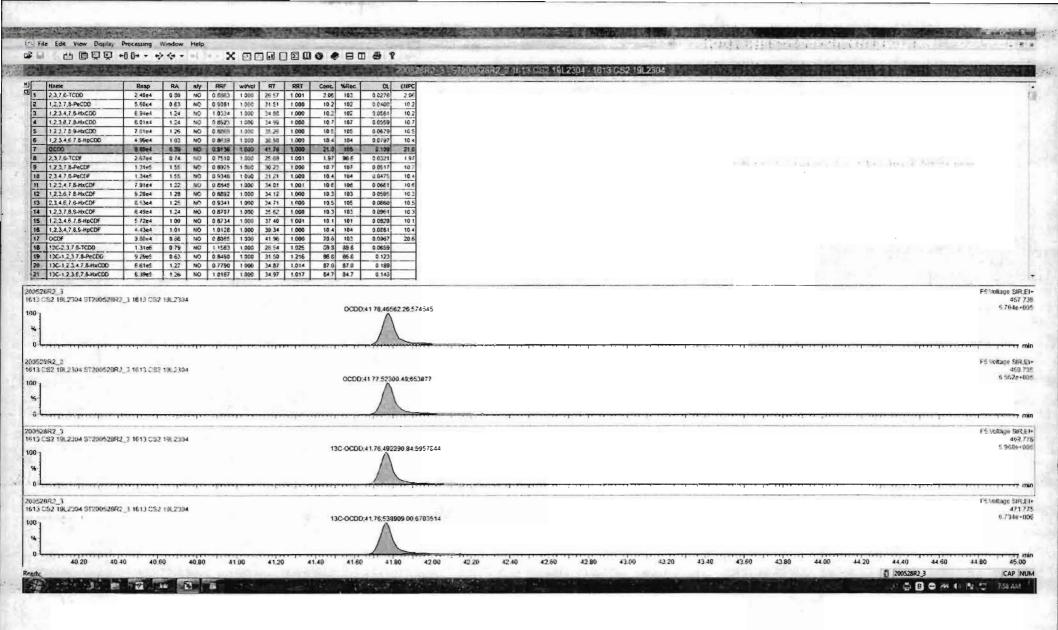
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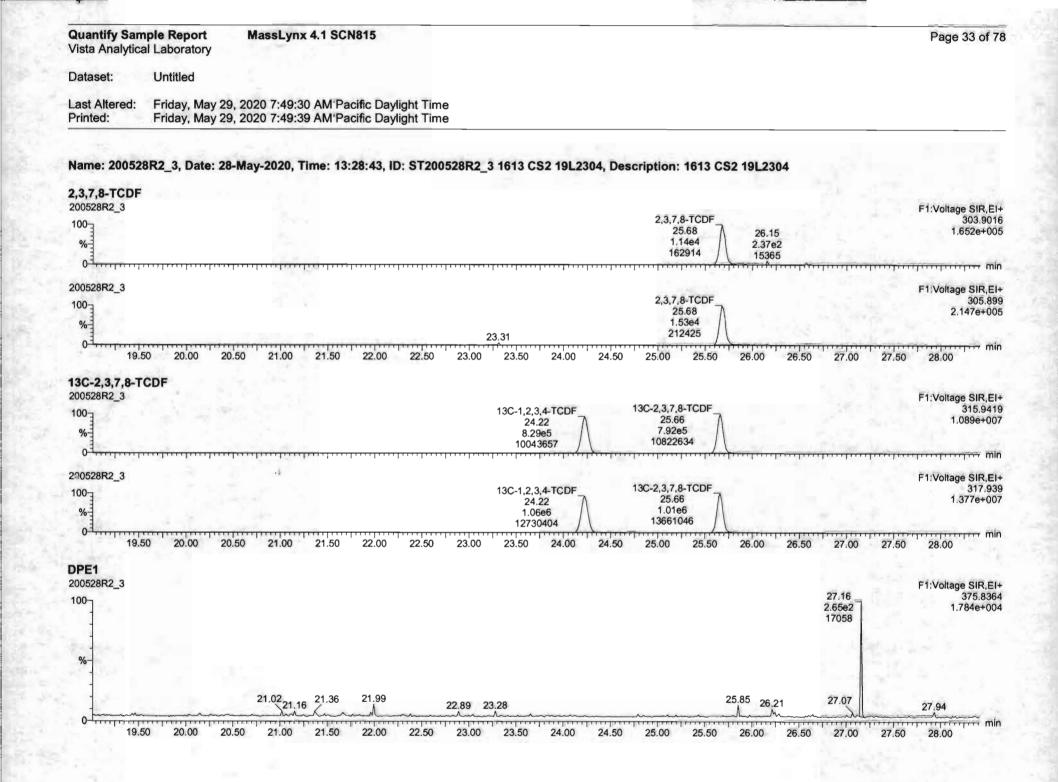


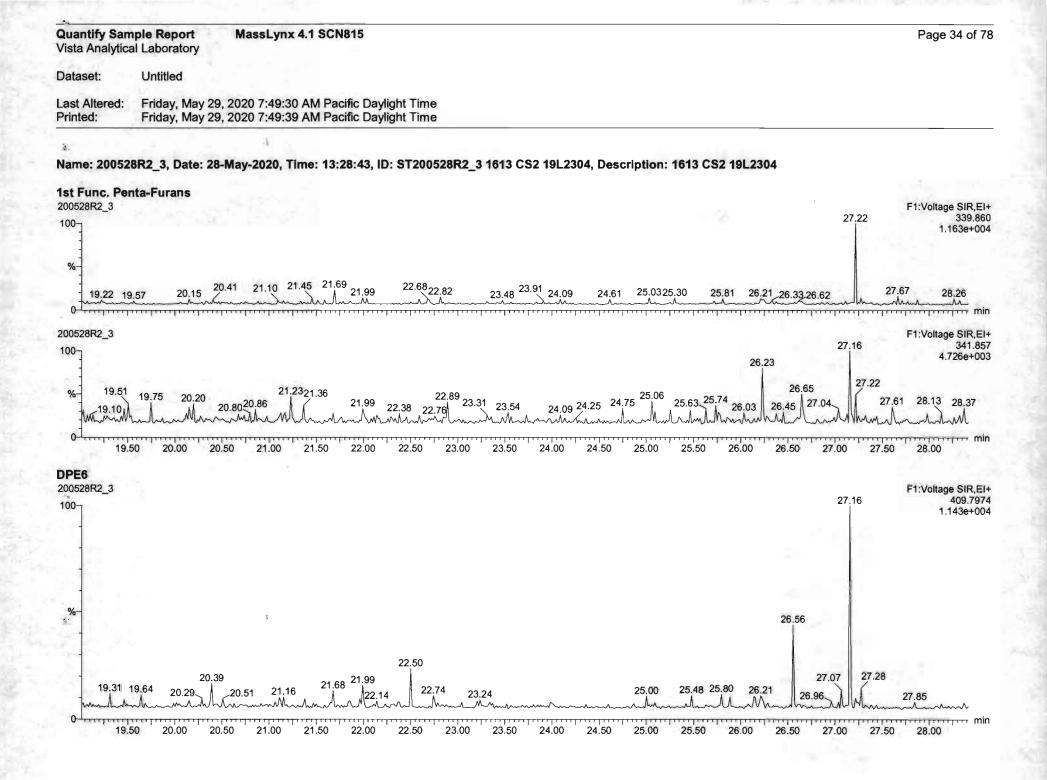
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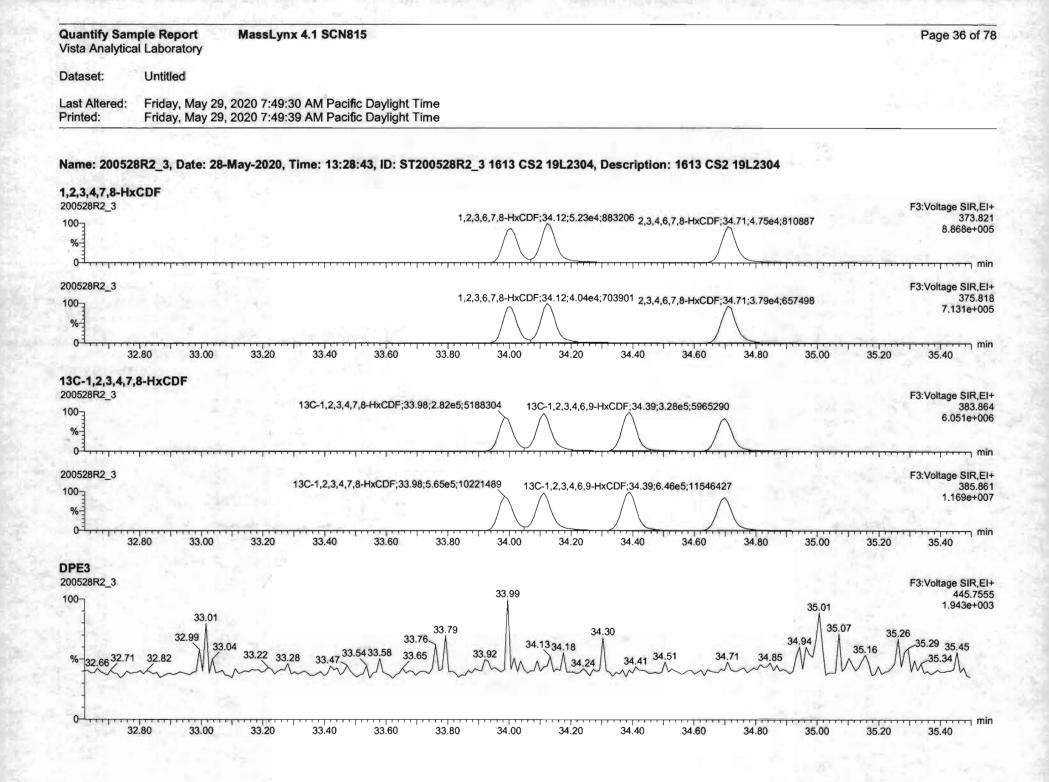








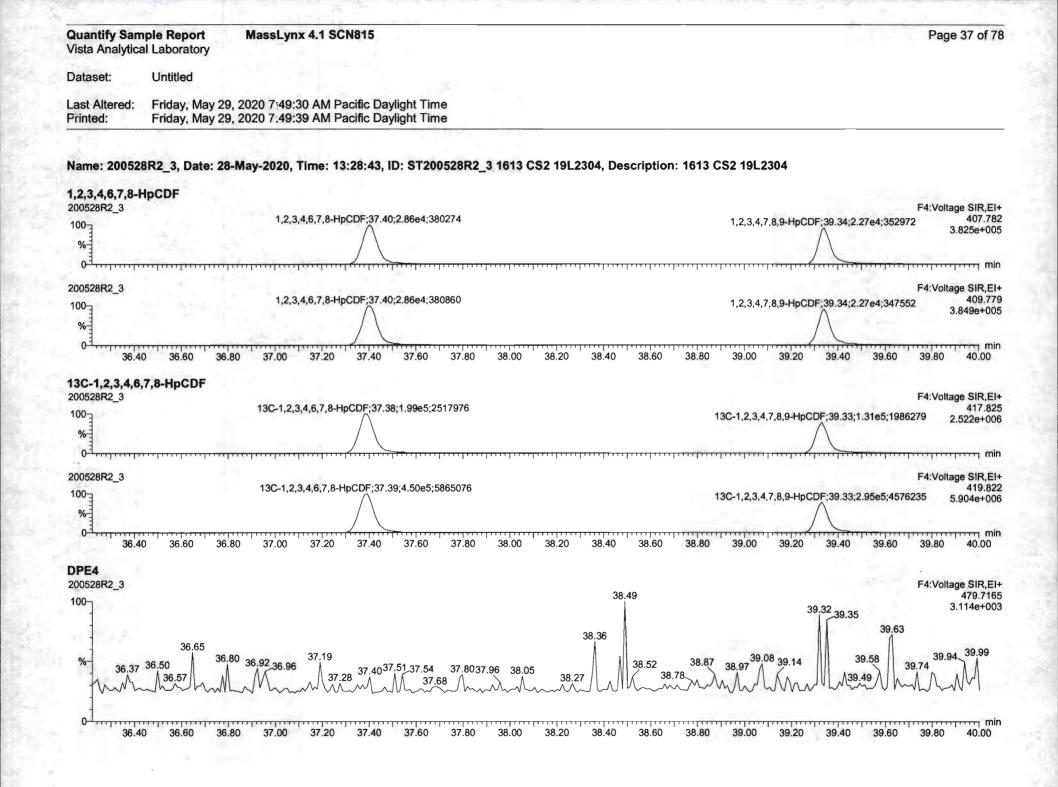
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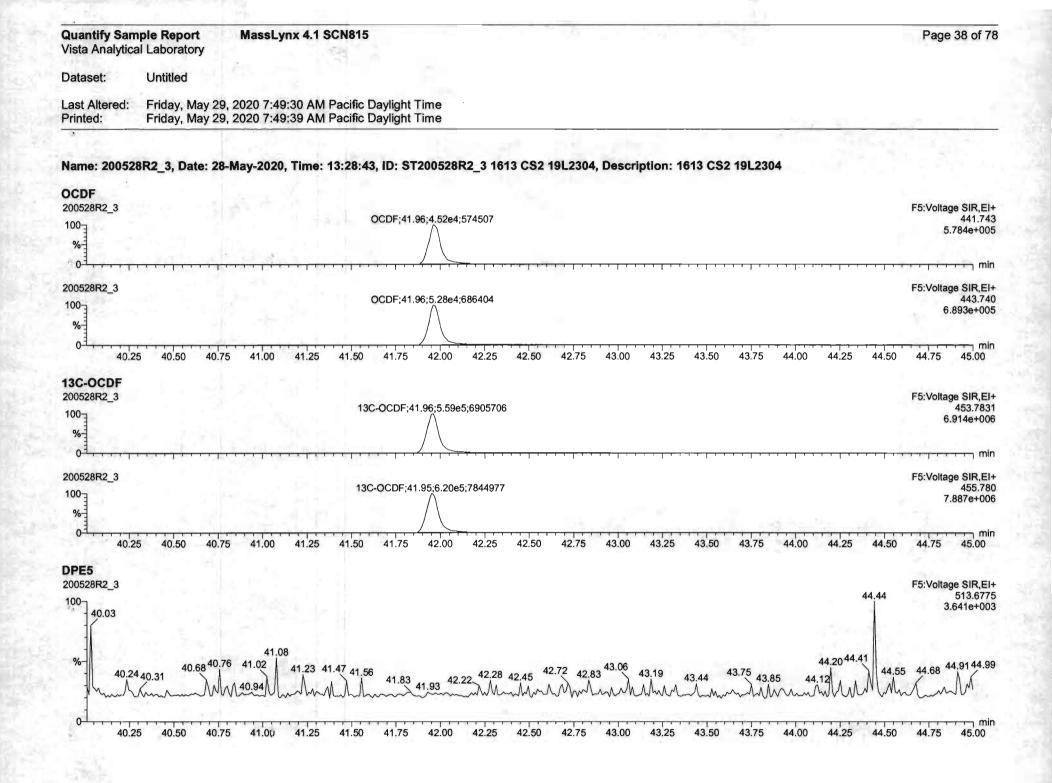
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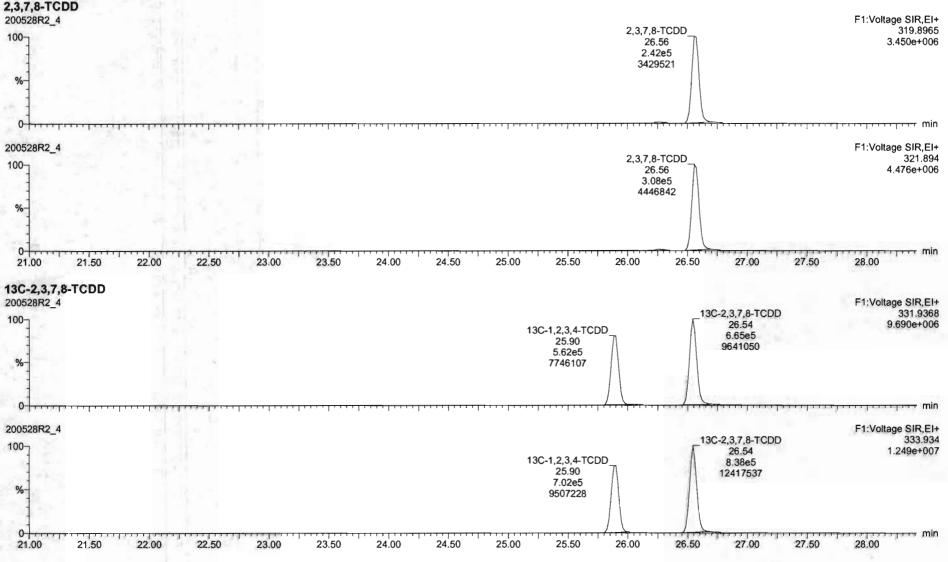
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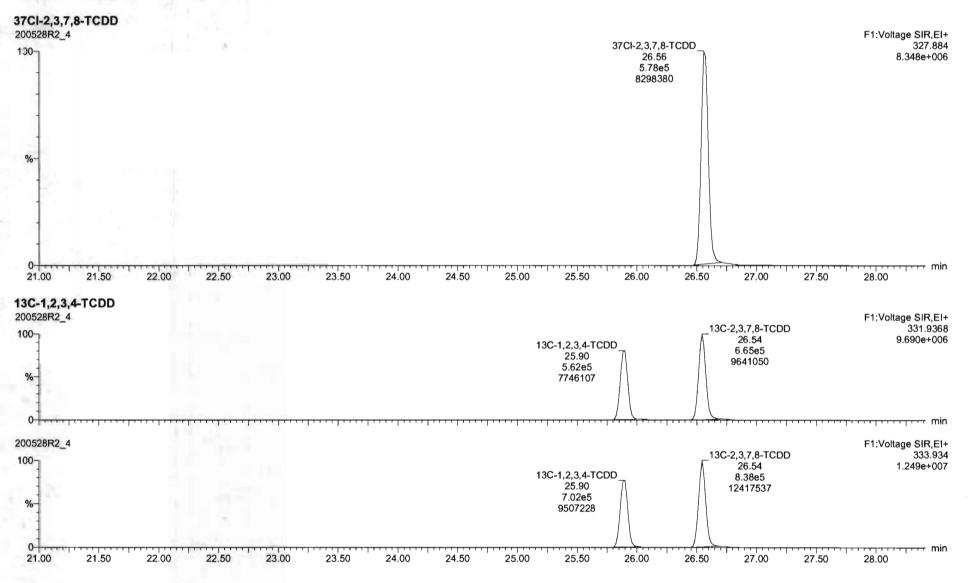
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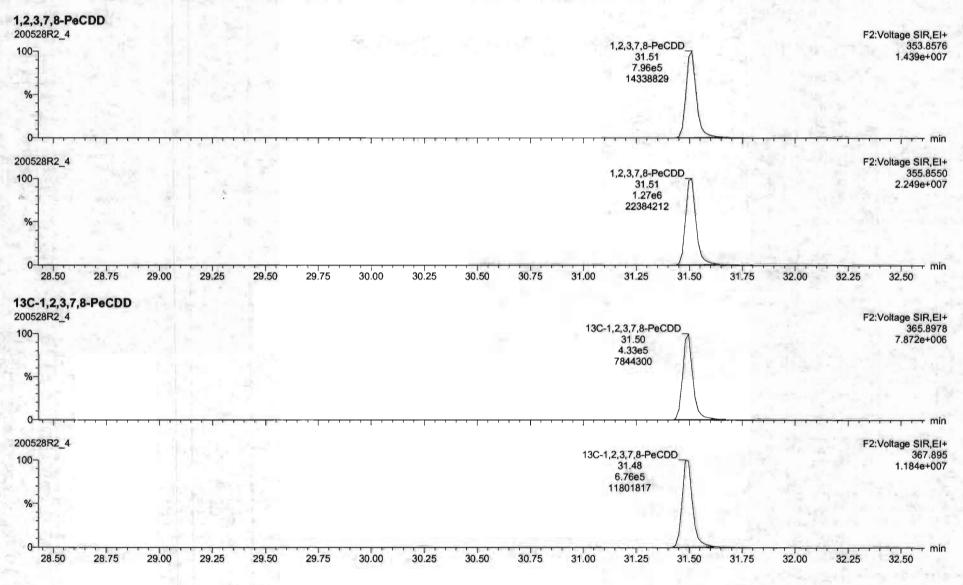
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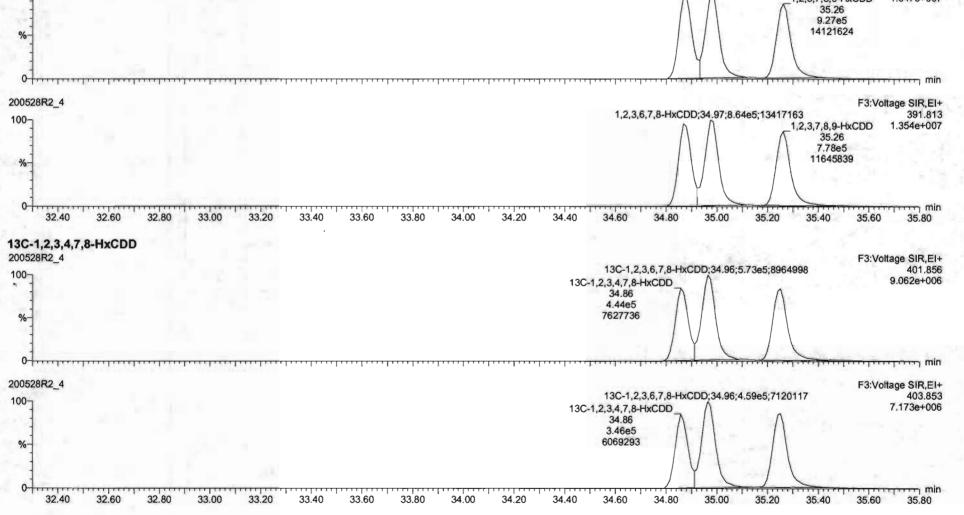


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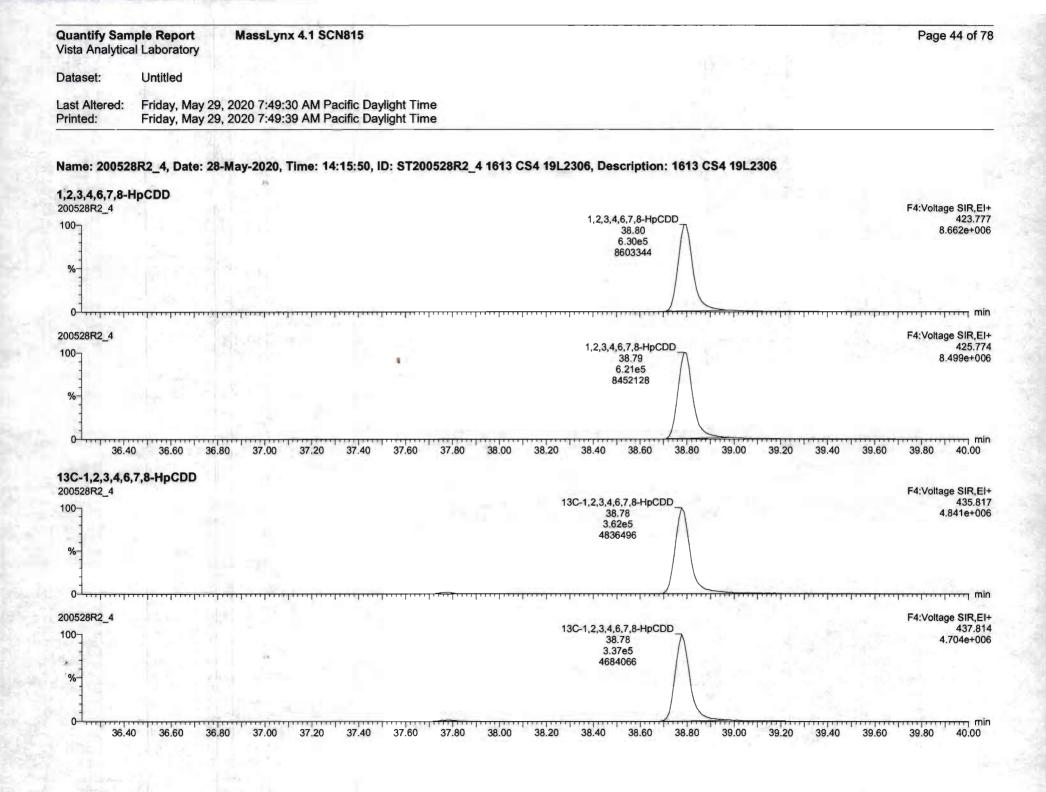
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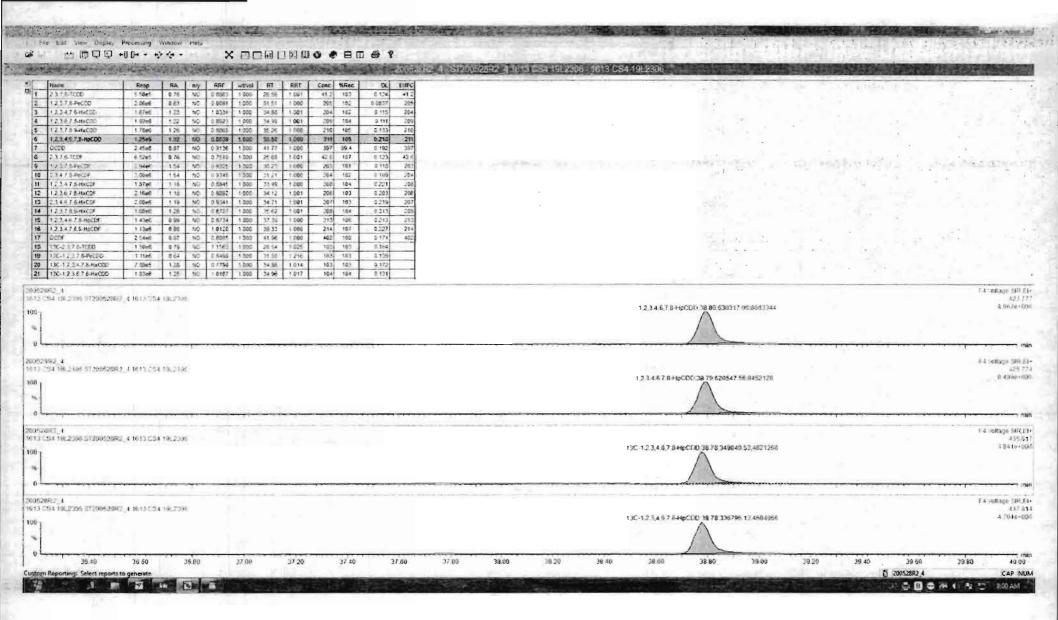
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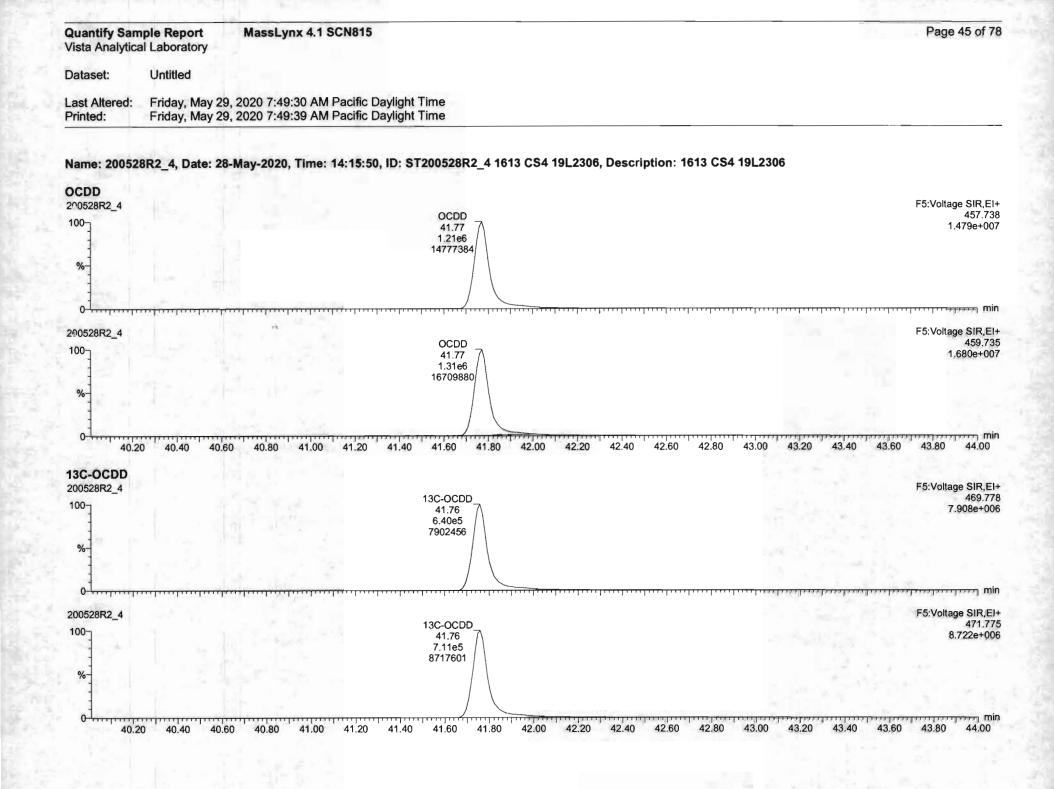
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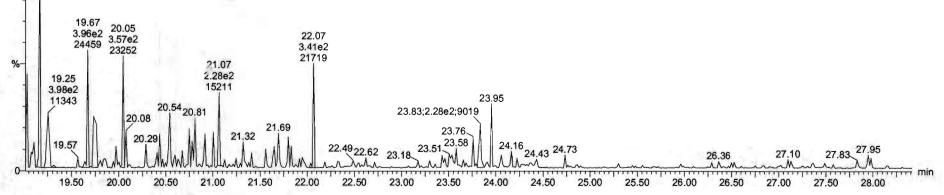


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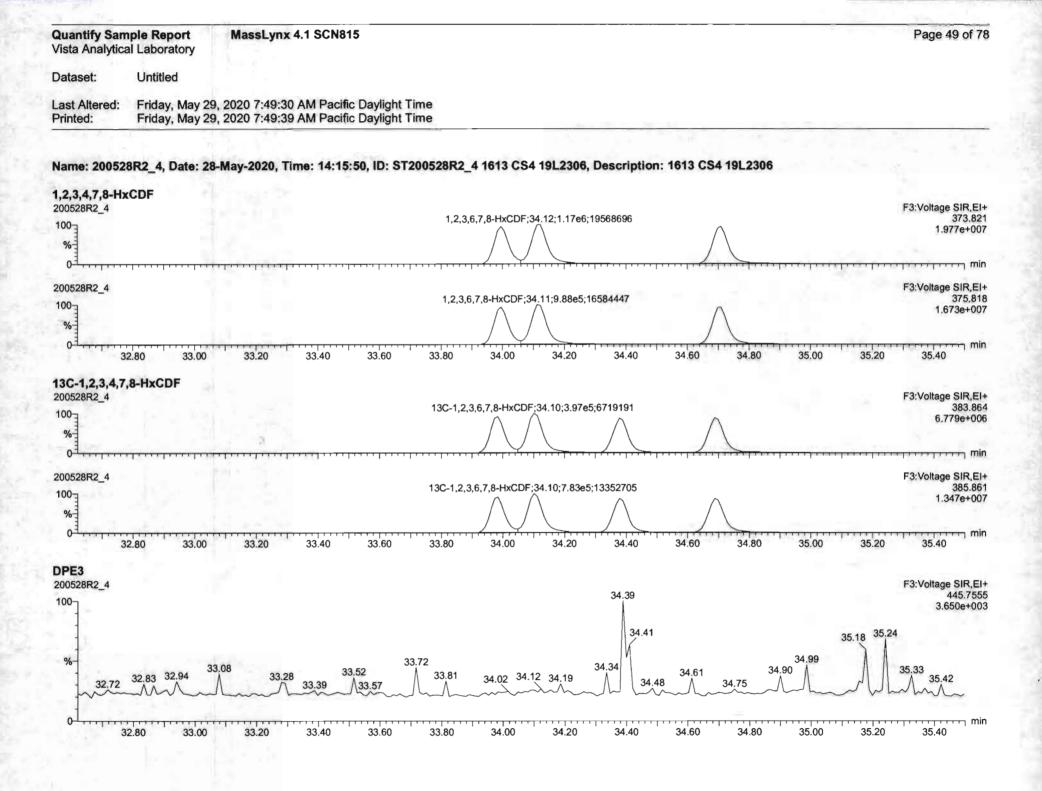
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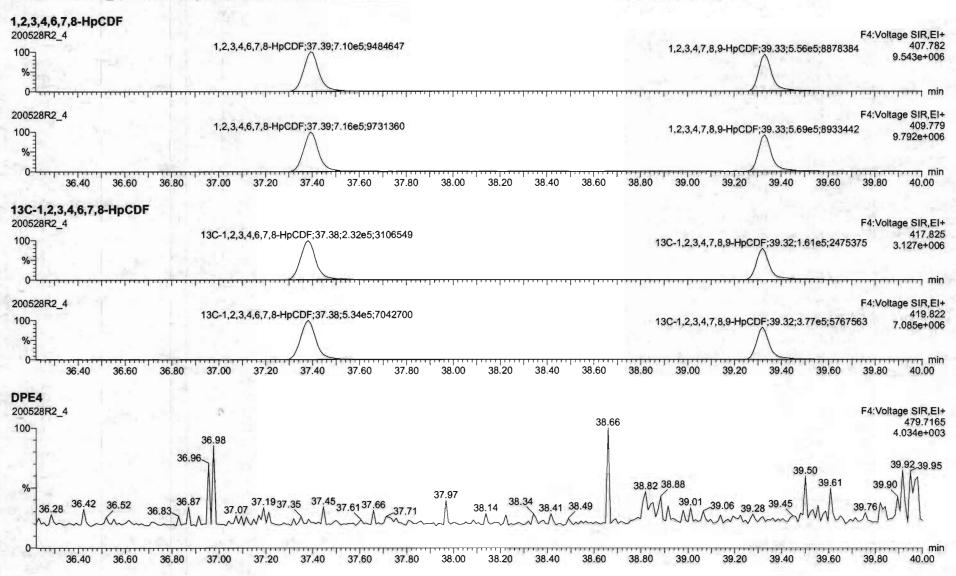
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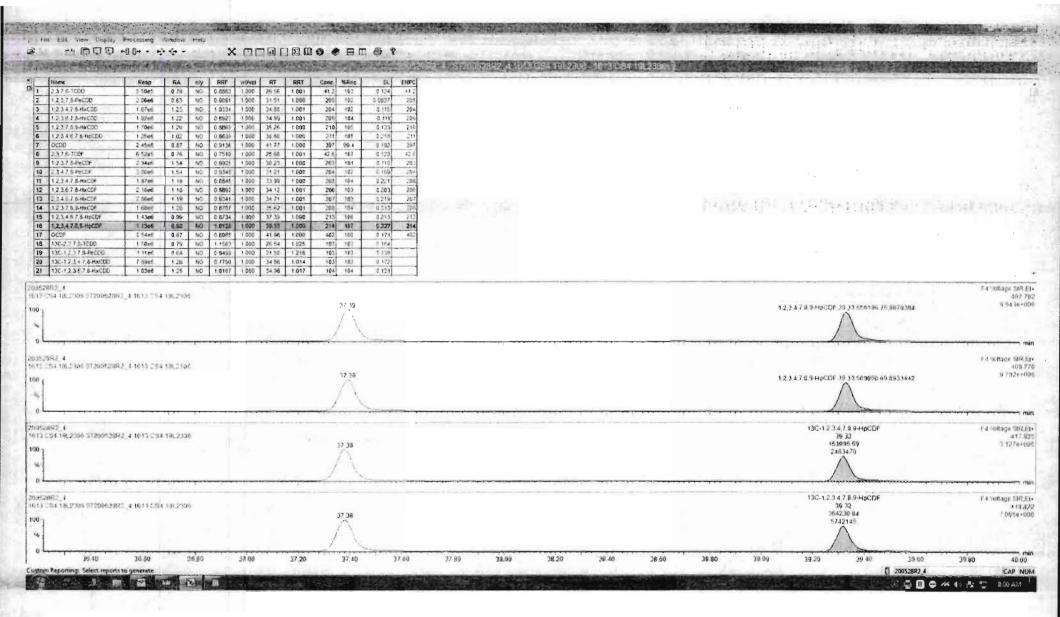


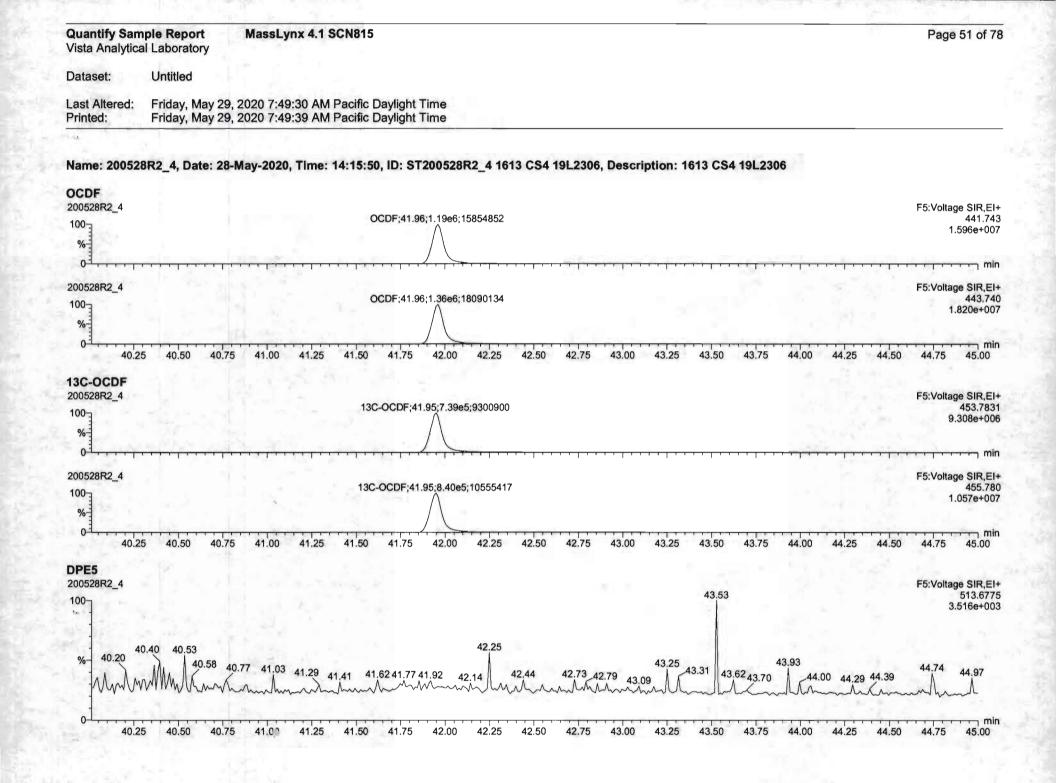
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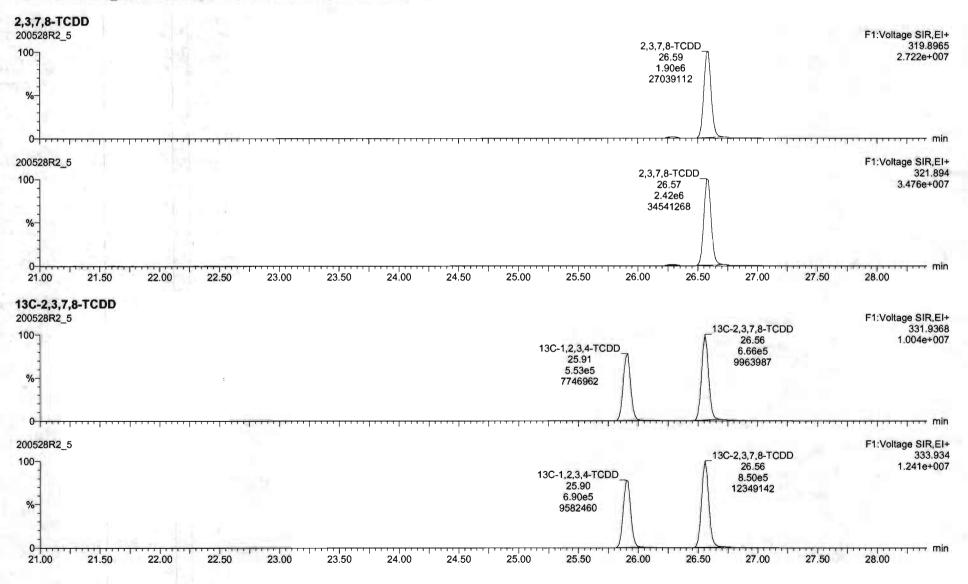




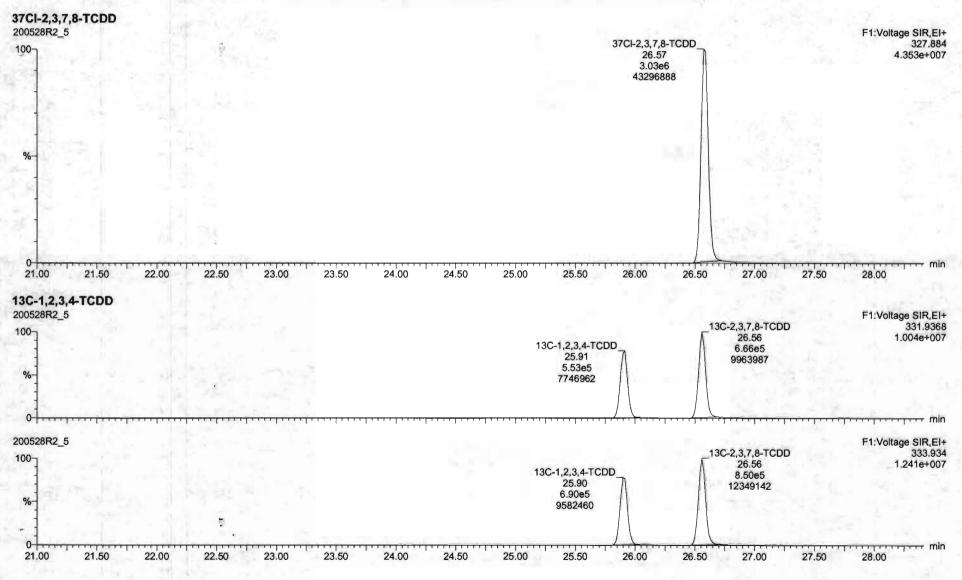
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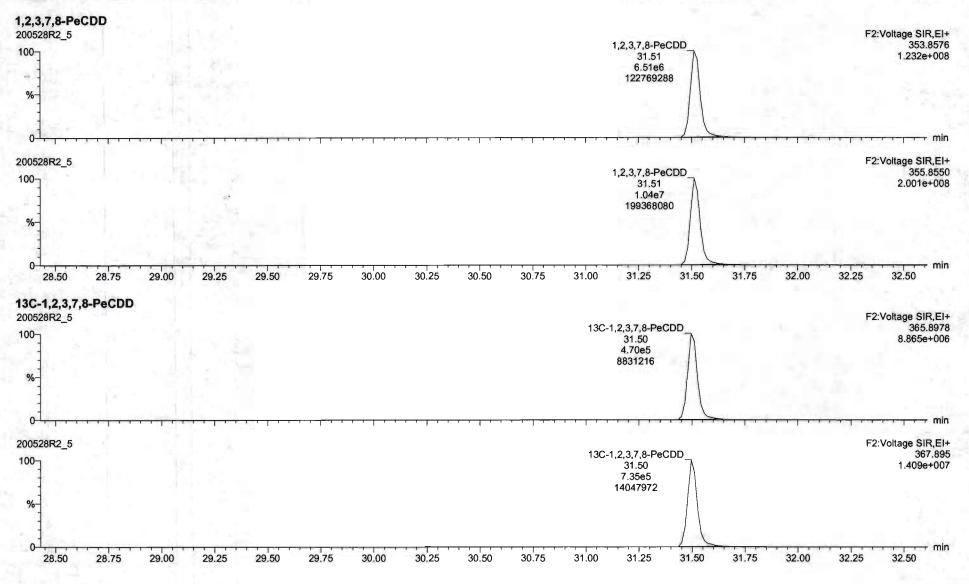
Quantify San Vista Analytica		Page 53 of 78
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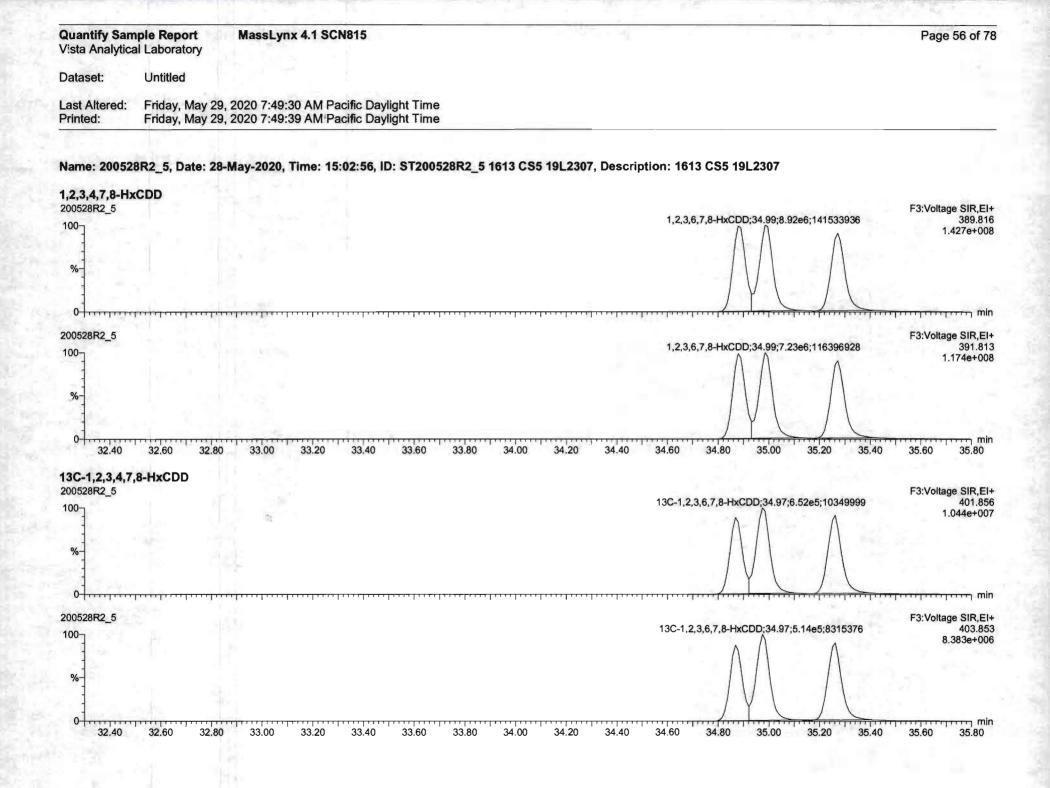


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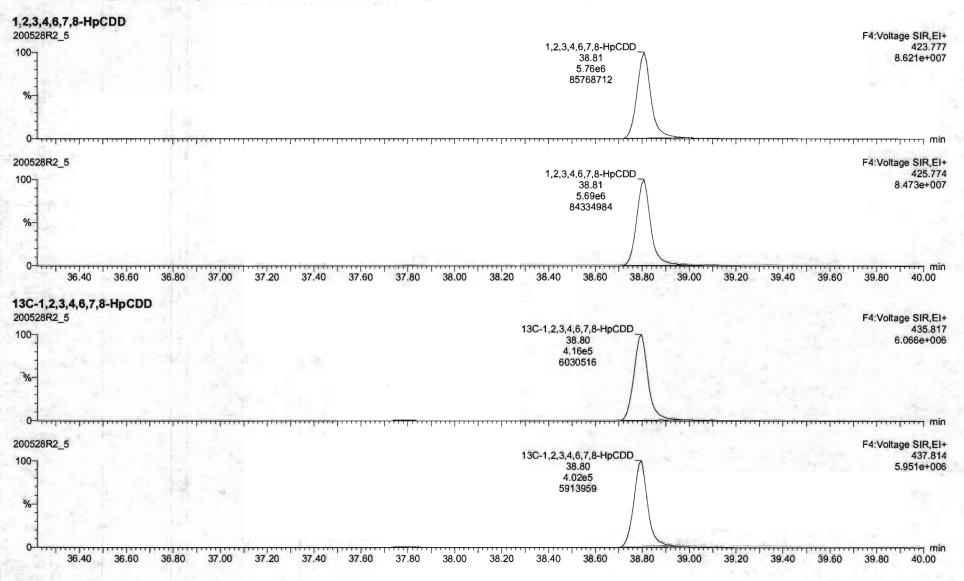


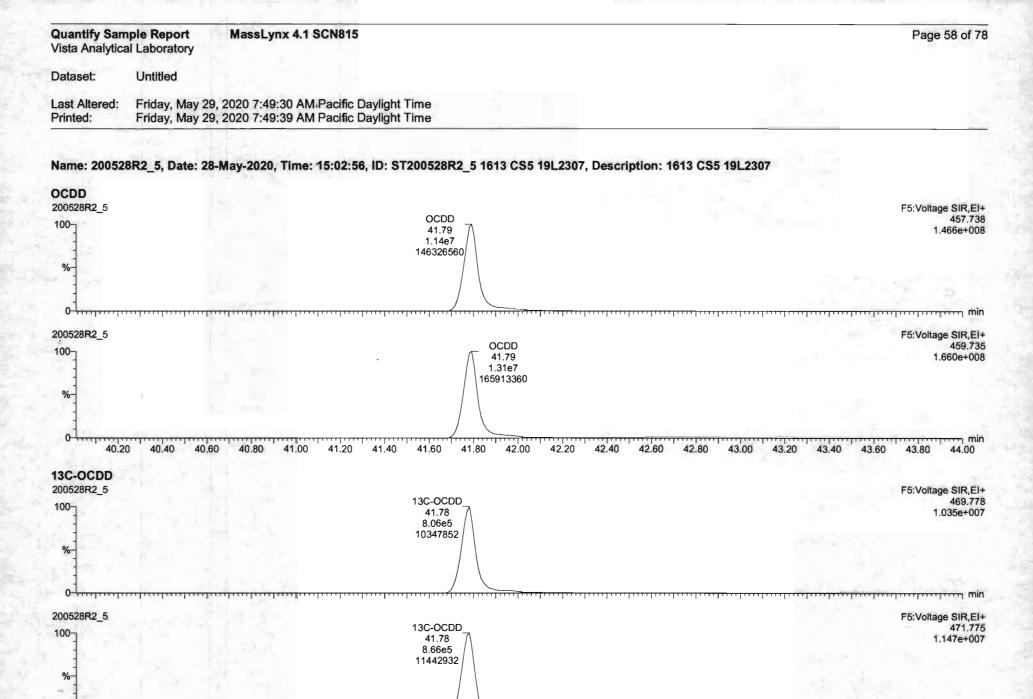


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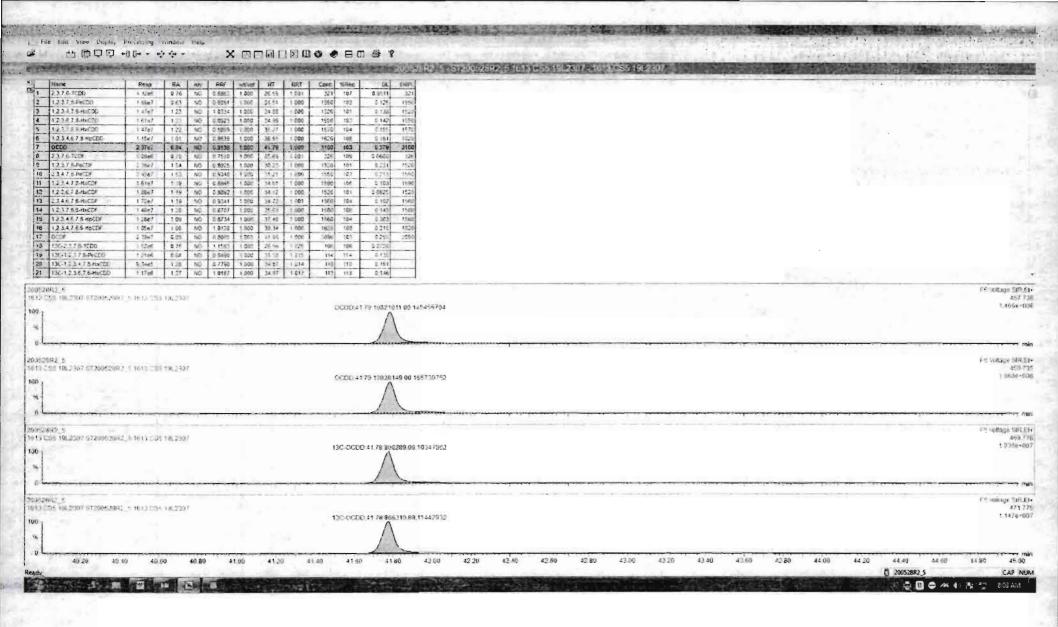
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Quantify San Vista Analytica		Page 57 of 78
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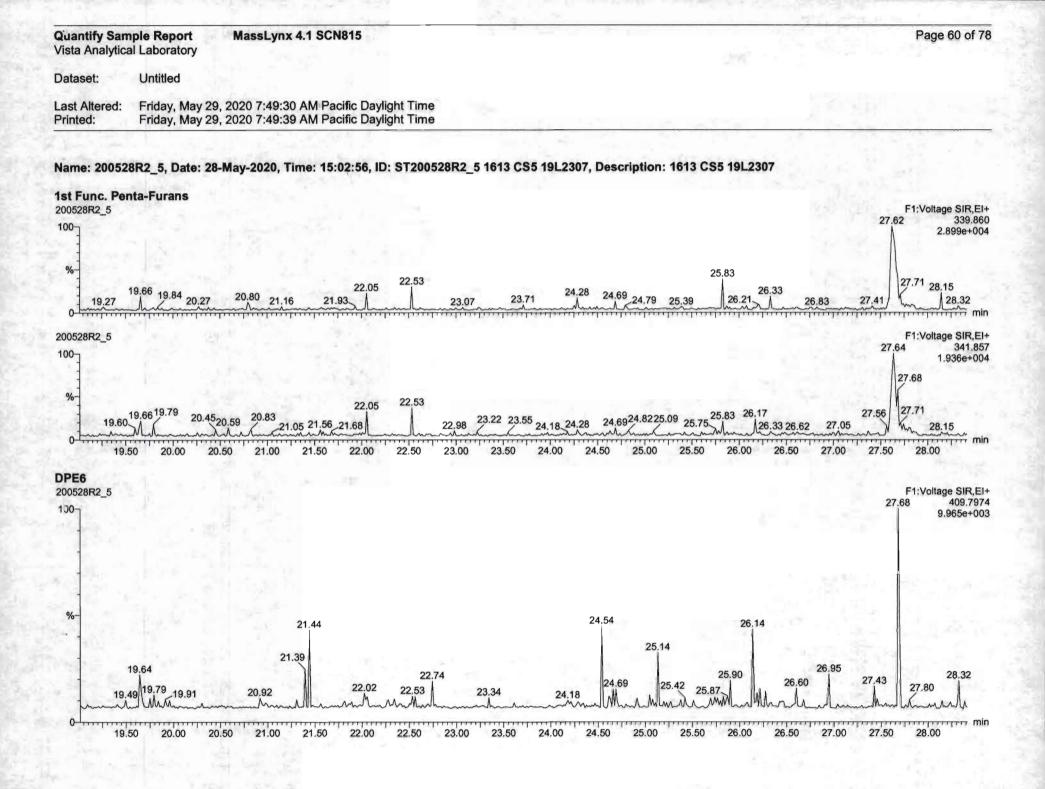




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00528R2_5									2	3,4,7,8-PeC	<b>`</b> DE				F2	Voltage SIR,E: 341.85
100- <sub>7</sub>					1	,2,3,7,8-PeC 30.23			۷,۰	3,4,7,8-Pec 31.21						1.864e+00
%						9.36e6	/\			9.67e6	. /\					
ol, , , , ,						170019040				185700144				,,,,,		m
28.50	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.50
3C-1,2,3,7,8-	DeCDE															
200528R2_5	Pecur														F	Voltage SIR,E
100-1					13C-1,	2,3,7,8-PeC	DF			4,7,8-PeC	DF					351.90
1						30.21 1.09e6	$\wedge$			31.19 1.04e6	/\					1.939e+0
%-					1	8708914				231522						
04	<u></u>						~ ~ ~ ~ ~ ~						1.4.1.1			<u> </u>
200528R2_5															F	Voltage SIR,E
100-3					13C-1,	2,3,7,8-PeC	DF_		13C-2,3	4,7,8-PeC	DF_					353.89
-						30.21 6.66e5	$\wedge$			31.19 6.48e5	$\wedge$					1.233e+00
%						1901737				2242805						
0 <sup>1</sup> , , , , , , , , , , , , , , , , , , ,	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.50 mi
20.00	20.75	29.00	20.20	20.00	20.70	50.00	00.20	00.00	00.70	01.00	01.20	01.00	01110	02.00	02.20	02.00
PE2																
200528R2_5															F	2:Voltage SIR,E
100	28.80			29.51							31.	.34				409.797 3.033e+00
	-															
-	Ą			A				30.49								
								00.40			]	31,53			32.27	

30.75

Work Order 2001155

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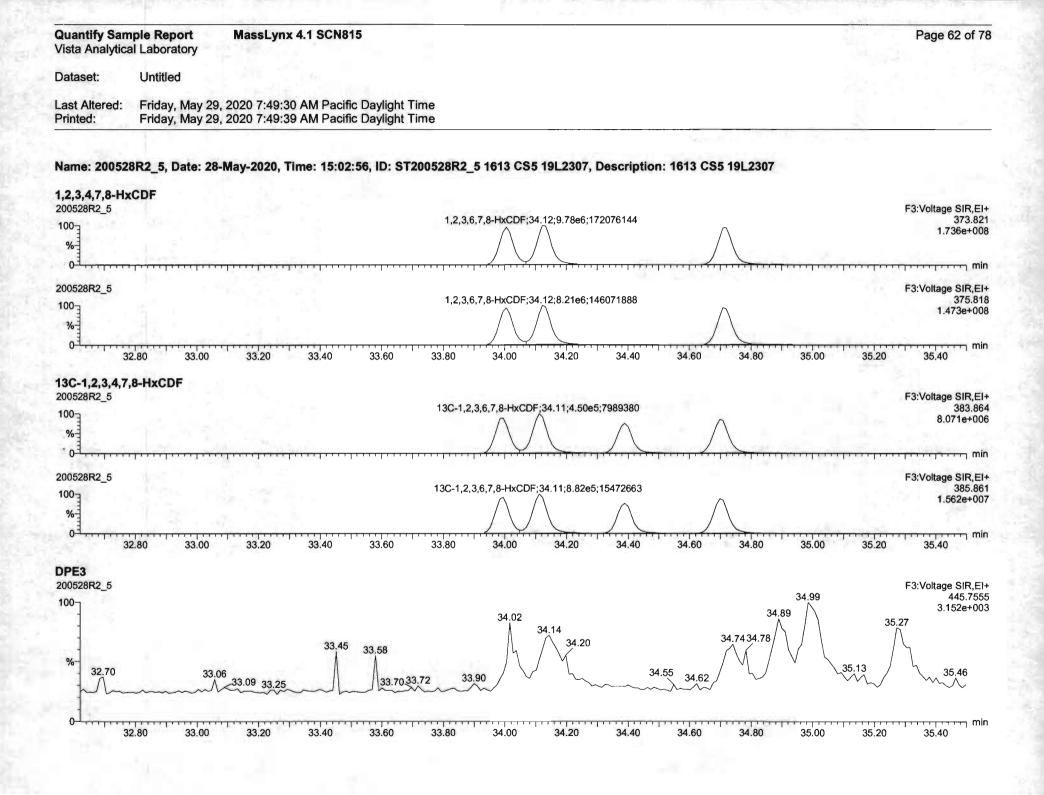
31.25

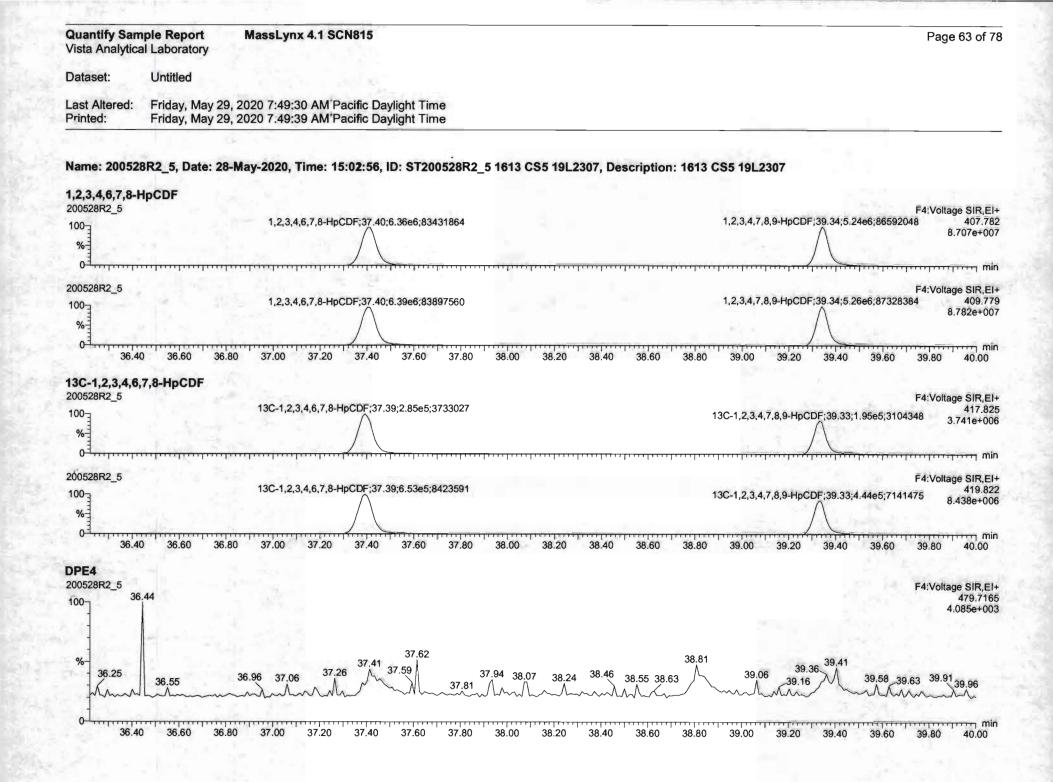
31.00

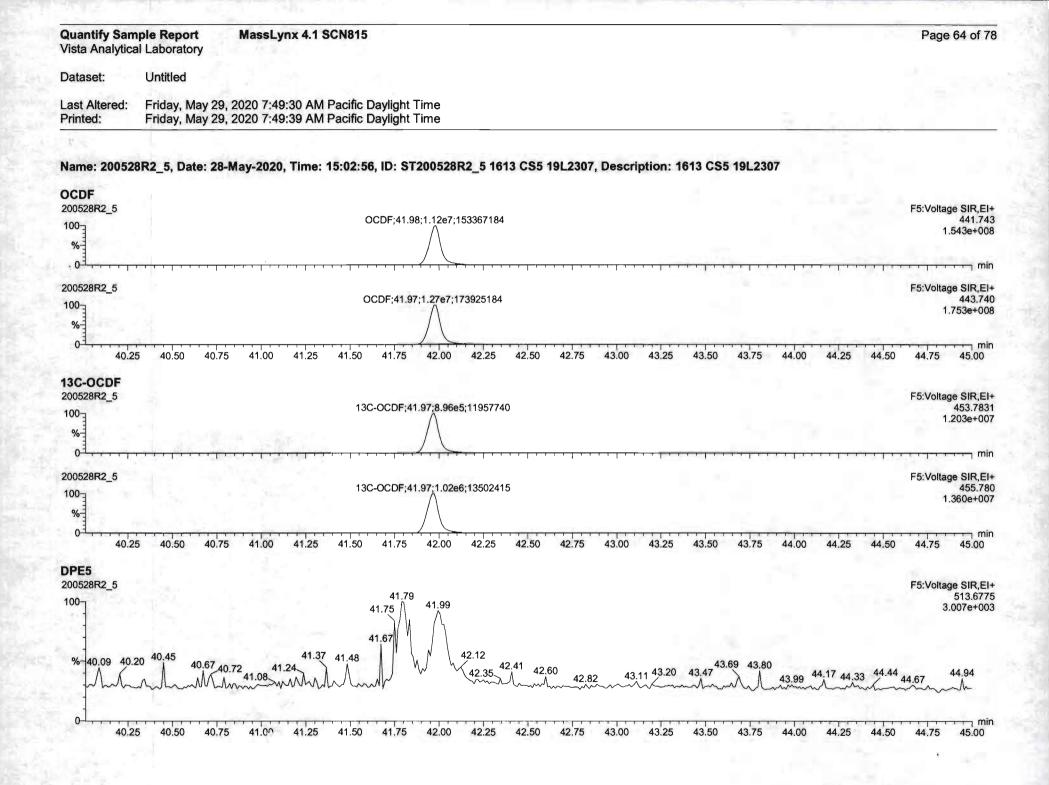
31.75

32.00

min



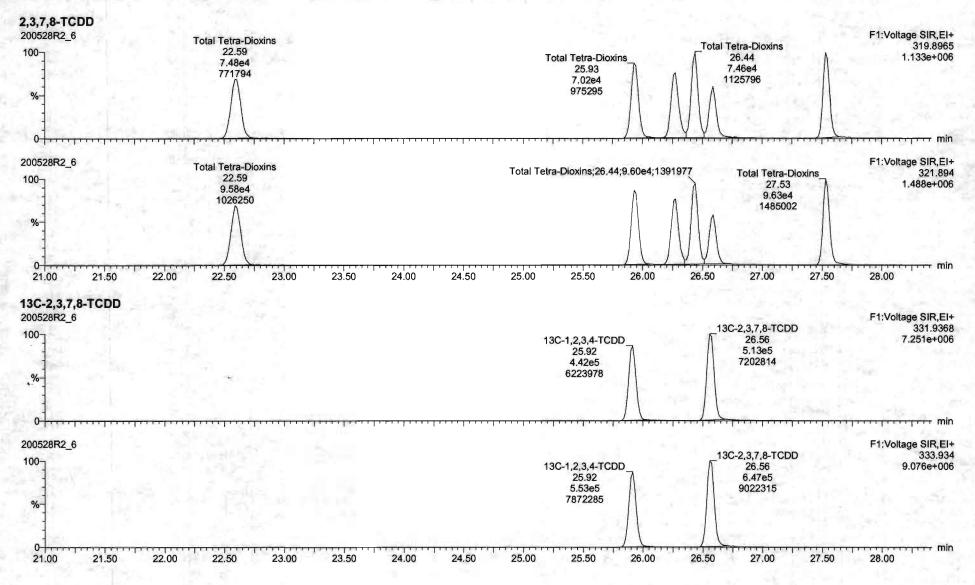




### Work Order 2001155

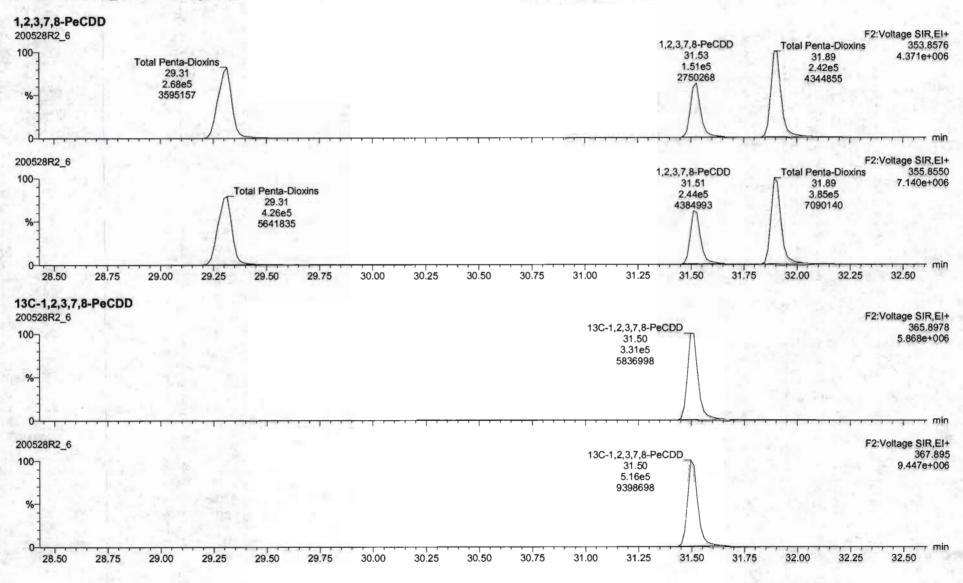
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ame: 200528R2_5, I	Date: 28-May-2020	), Time: 15:02:56, ID:	: ST200528R2_5 16	13 CS5 19L2307	, Description: 16	3 CS5 19L230	07	
FK1 0528R2 5								F1:Voltage SIR,E
20.02;1.21e4;129914	20.62,20.72	21.41 <sup>21.54</sup> 21.98 2	22.73;5.70e3;98634	23.74	25.00;1.97e4;22019	25.59 26.14	26.65 26.84 27.56;3.4	1e4;368222 316.98
%	20.02 20.72	and 21.90 2		sand	mandam		mundan man	1.648e+0
0 <sup>-1</sup>	.00 20.50 21.0	0 21.50 22.00	22.50 23.00 2	23.50 24.00 2	24.50 25.00 2	5.50 26.00	26.50 27.00 27.	50 28.00
K2								
0528R2_5	00.40	29.80		20.61 20.81	31.11 3	1.37	1.85;2.50e4;246305_32.06	F2:Voltage SIR,I
28.69;1.03e5;66474 28.55	17 29.10 21	9.38 29.42 29.80	30.17 30.3	530.47 30.01 30.01	30.89 31.05 31.11 3		32.06	32.35 366.97 1,508e+0
EEo			<del>, ,   , , , , , , , , , , , , , , , , ,</del>	••••••				
28.50 28.75	29.00 29.25	29.50 29.75	30.00 30.25	30.50 30.75	31.00 31.2	5 31.50	31.75 32.00 3	32.25 32.50
K3								
0528R2_5	0 00 04:0 70-0:40	32.81;2.76e6;4	4090882					F3:Voltage SIR,I 35.88 380.97
32.81;2.76e6;409088	2 32.81;2.76e6;40	90882		34.27 34.40	34.60 34.75 3	4.95 35.08	35.39 35.60	8.482e+0
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0 <sup>1</sup>			┠┅╍┱╍┠┎┍╍┎╒┎┍┍┍┍┍				****	,
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00528R2_5 36.57;5.38e5;	2295155 36.76 36.90	37.33;3.20e5;1628083	37.96;1.5464	1;376001 38.18 38.	32;3.15e4;524422	38.89	39.33 39.48	
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00528R2_5 36.57;5.38e5; %				·····			<u>39.33 39.48</u> 39.20 39.40 39.60	<u>6.766e+0</u>
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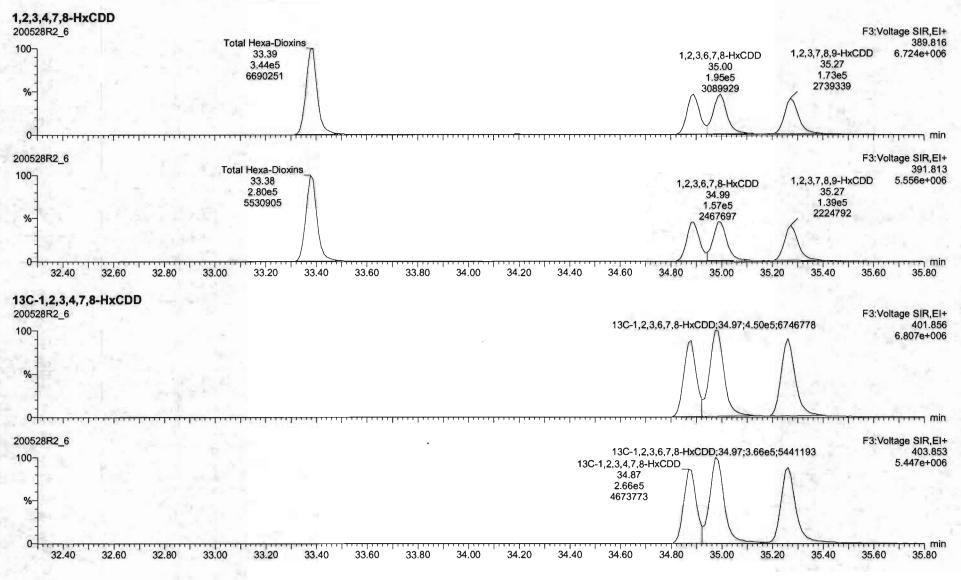


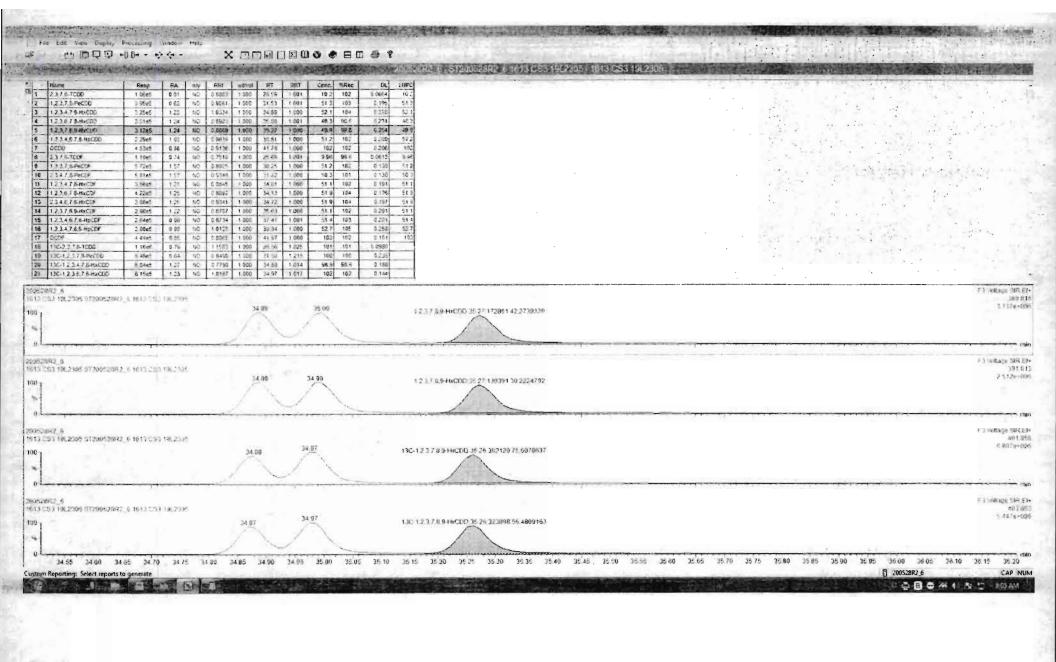
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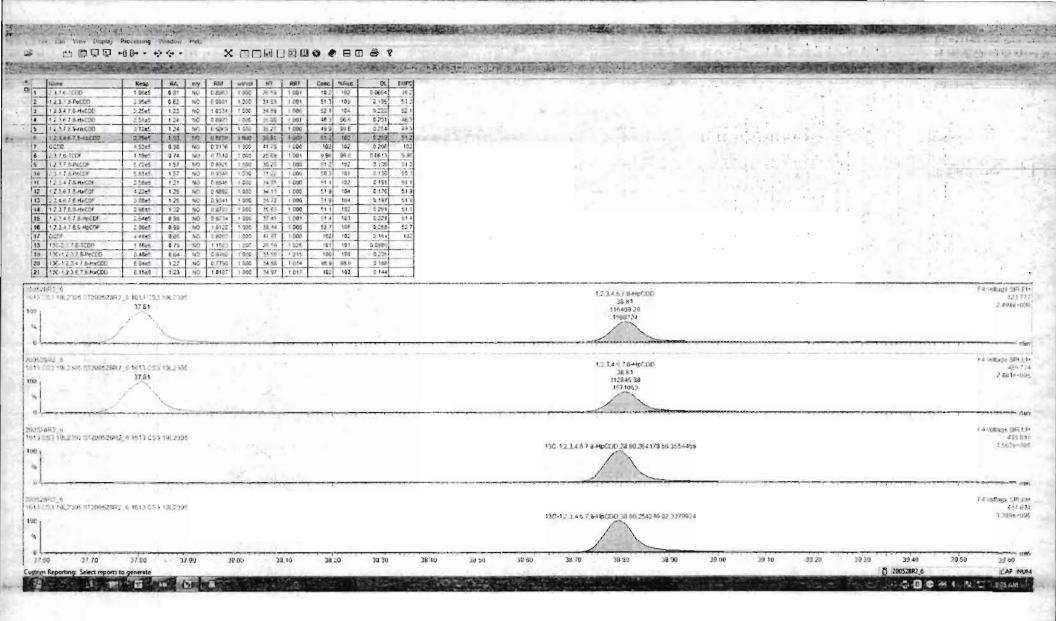


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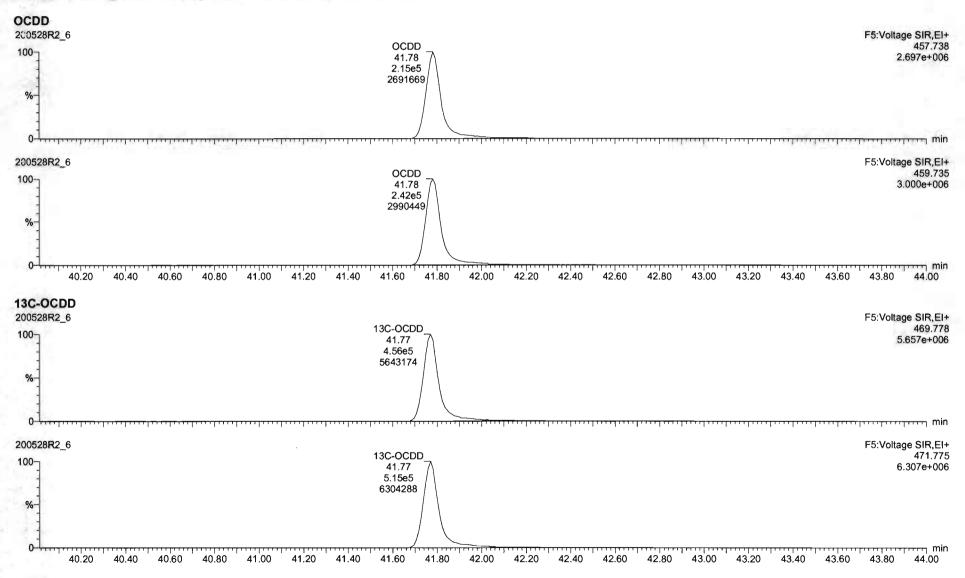




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01		120 1 2	,3,4,6,7,8-HpCDD_	F4:Voltage SIR, 437.0
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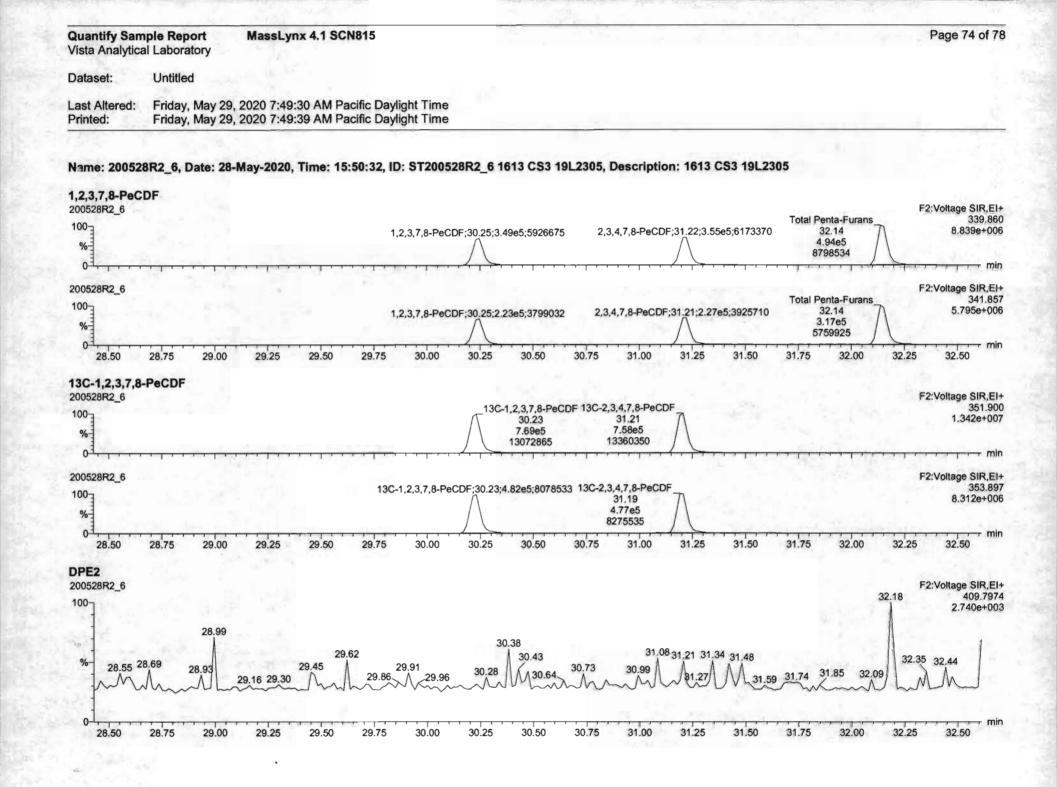
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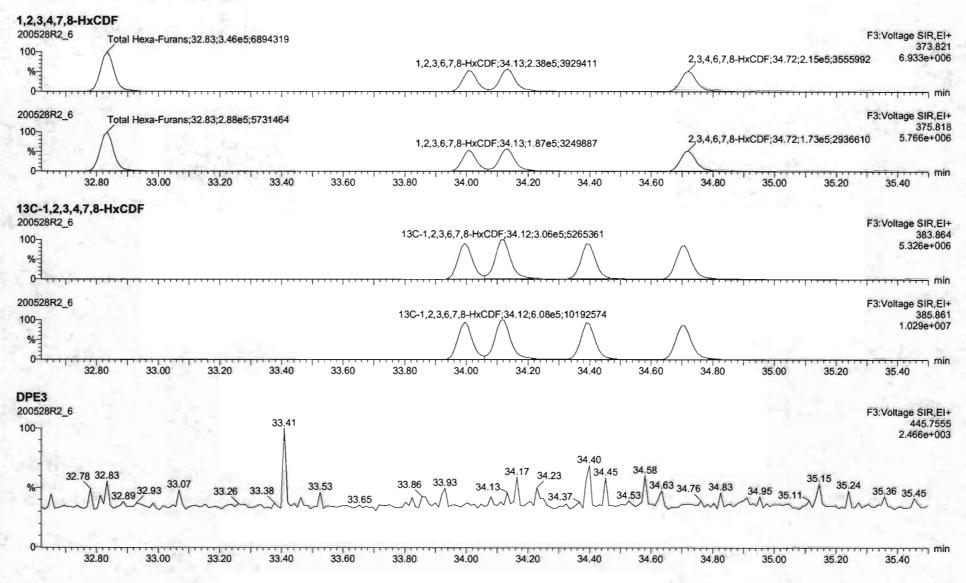
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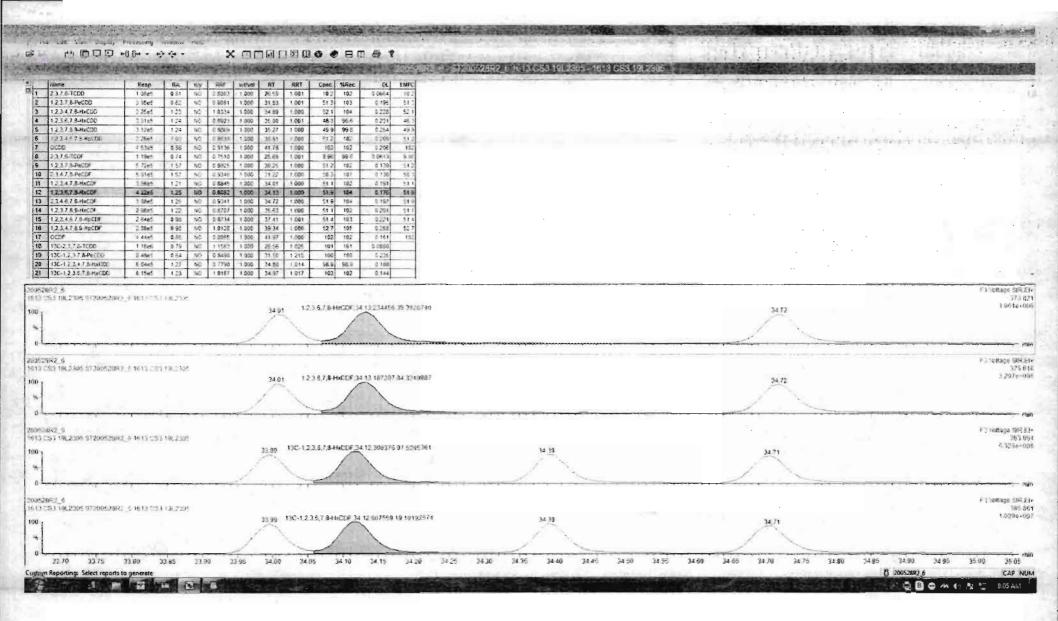
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o <sup>1</sup>										
0 <sup>4</sup> ,			13C-1,2,3,4-TCDF;	24.24;8.41e5;993103(	/ <u>_</u>	9628105	····			F1:Voltage SIR,I 317.9
0 <sup>4</sup> , 200528R2_6			13C-1,2,3,4-TCDF;	24.24;8.41e5;993103	\ \	9628105 				F1:Voltage SIR,6 317.9 1.217e+0
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0 <sup>4</sup> , 200528R2_6 100 % 0 <sup>4</sup> , 19.5 <b>DPE1</b> 200528R2_6	50 20.00 20.50 21.00	0 21.50 22.00		· [ • · · · · · · · · · · · · · · · · ·	24.50	9628105 13C-2,3,7,8-T 25.68 8.95e5 12087343 25.00		2	5.69	F1:Voltage SIR,E 317.9 1.217e+0 28.00 F1:Voltage SIR,E 375.83 5.477e+0 27.94
0 <sup>4</sup> , 200528R2_6 100 % 100 19.5 <b>DPE1</b> 200528R2_6 100 19.01				23.50 24.00	24.50	9628105 13C-2,3,7,8-T 25.68 8.95e5 12087343 25.00		26,35	5.69	F1:Voltage SIR,E 375.83 5.477e+0
0 <sup>4</sup> ,	20.35 20.59	21.54	22.50 23.00	23.50 24.00	24.50	9628105 13C-2,3,7,8-T 25.68 8.95e5 12087343 25.00	25.74, <sup>25.85</sup>	26,35 26,65	5.69	F1:Voltage SIR,I 317.9 1.217e+0 28.00 F1:Voltage SIR,I 375.83 5.477e+0 27.94 7.70
0 <sup>4</sup> , 200528R2_6 100 % 10.5 0 <b>PE1</b> 200528R2_6 100 19.01	20.35 20.59			23.50 24.00	24.50	9628105 13C-2,3,7,8-T 25.68 8.95e5 12087343 25.00	25.74, <sup>25.85</sup>	26,35	5.69	F1:Voltage SIR,E 317.9 1.217e+0 28.00 F1:Voltage SIR,E 375.83 5.477e+0 27.94
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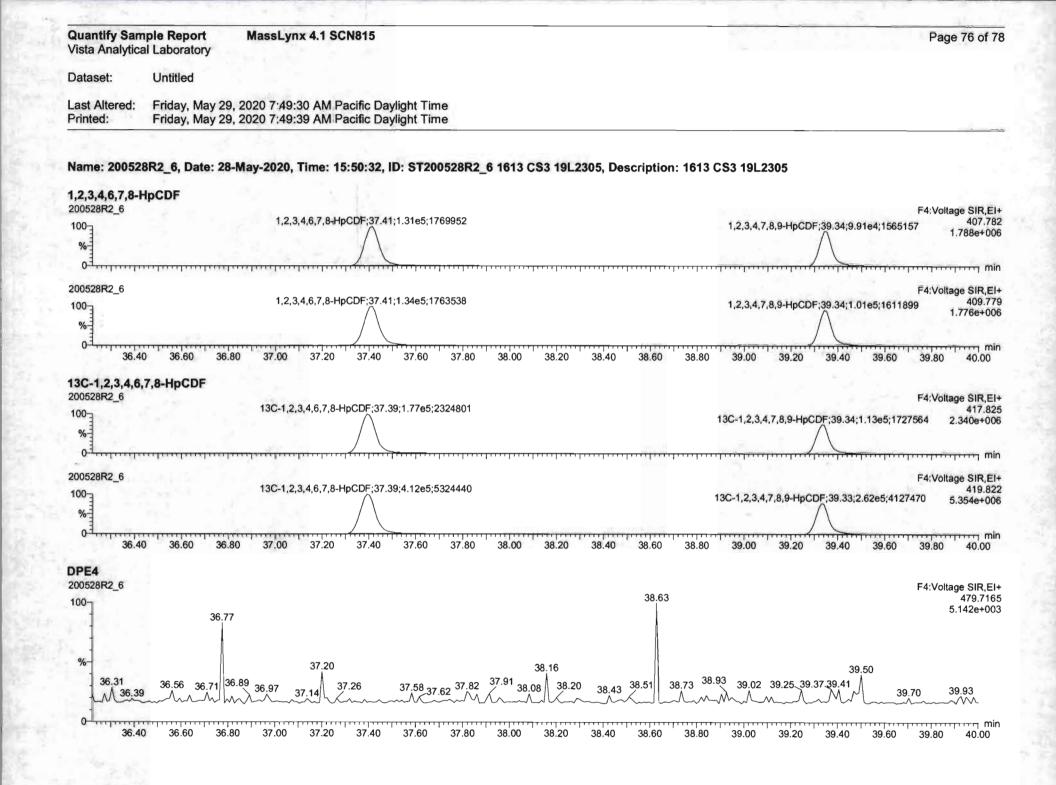
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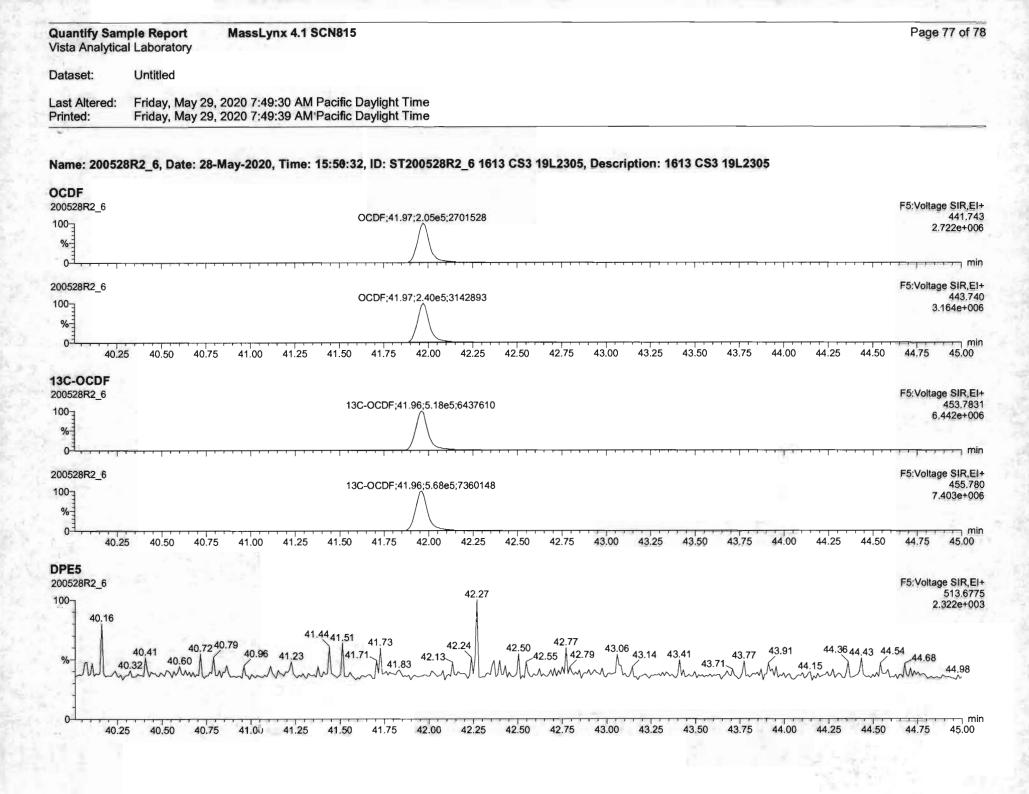
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 Quantify Sample Summary Report
 MassLynx 4.1 SCN815

 Vista Analytical Laboratory
 MassLynx 4.1 SCN815

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1000	# 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	- A
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	8 - I B
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	14
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	S.5 -
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	100
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	14 C 1
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	100
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	1.5
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	1.00
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	100

# Quantify Sample Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory MassLynx 4.1 SCN815

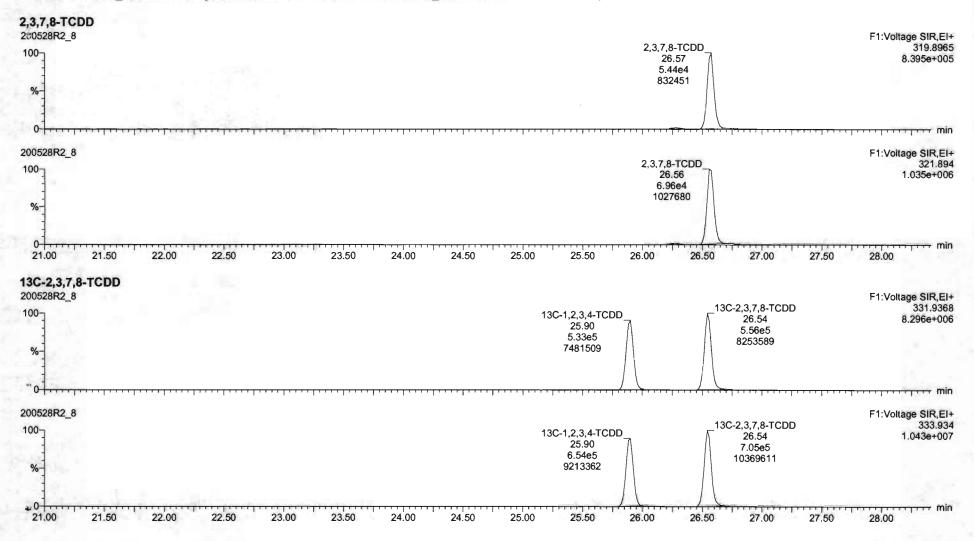
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The state	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.33e5	0.43	NO	0.774	1.000	37.353	37.39	1.086	1.087	87.682	87.7	0.235	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	0.42	NO	0.521	1.000	39.386	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 37CI-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	

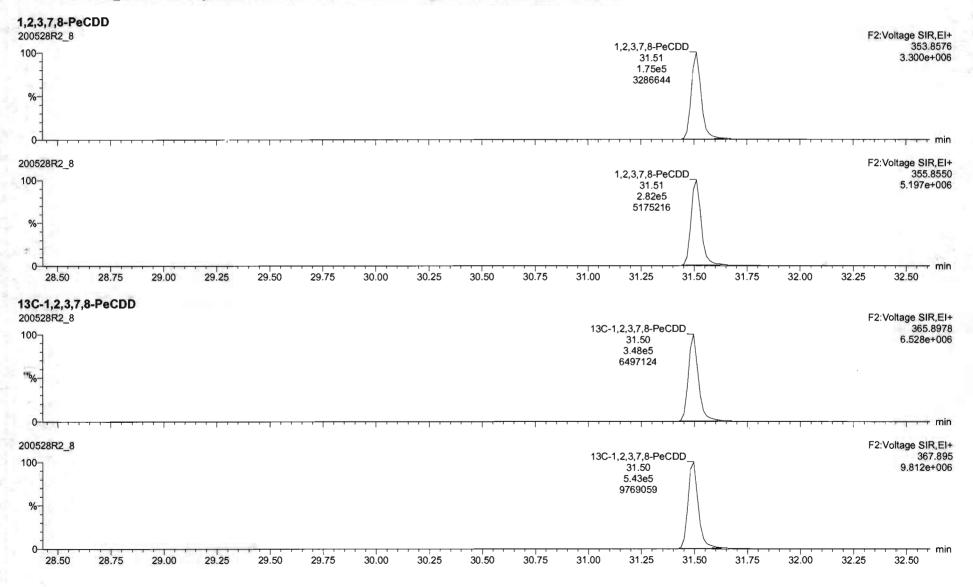
Quantify Sam Vista Analytica		Page 1 of 13
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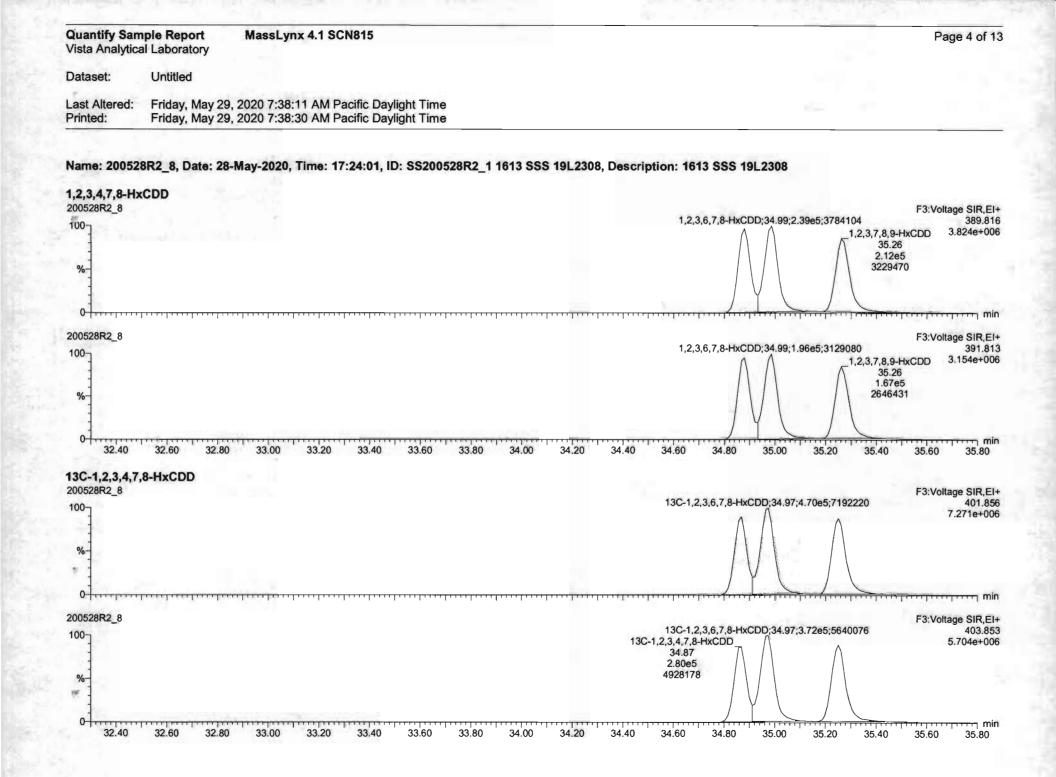
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7CI-2,3,7,8-T	TCDD			Section South	F1:Voltage SIR,E
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21.00 2 1 <b>3C-1,2,3,4-T</b> 200528R2_8		22.50 23.00 23.50 24			28.00 F1:Voltage SIR,E
21.00 2 1 <b>3C-1,2,3,4-T</b> 200528R2_8		22.50 23.00 23.50 24	13C-1,2,3,4-TCDD 25.90	_13C-2,3,7,8-TCDD √ 26.54	28.00 F1:Voltage SIR,E 331.936
21.00 2 1 <b>3C-1,2,3,4-T</b> 200528R2_8		22.50 23.00 23.50 24	13C-1,2,3,4-TCDD	13C-2,3,7,8-TCDD	F1:Voltage SIR,E 331.936 8.296e+00
21.00 2 3 <b>C-1,2,3,4-T</b> 200528R2_8		22.50 23.00 23.50 24	13C-1,2,3,4-TCDD_ 25.90 5.33e5	13C-2,3,7,8-TCDD 26.54 5.56e5	28.00 F1:Voltage SIR,E 331.936
21.00 2 3 <b>C-1,2,3,4-T</b> 000528R2_8		22.50 23.00 23.50 24	13C-1,2,3,4-TCDD_ 25.90 5.33e5	13C-2,3,7,8-TCDD 26.54 5.56e5	28.00 F1:Voltage SIR,E 331.93 8.296e+0
21.00 2 3C-1,2,3,4-T 200528R2_8 100 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		22.50 23.00 23.50 2 <sup>4</sup>	13C-1,2,3,4-TCDD_ 25.90 5.33e5	13C-2,3,7,8-TCDD 26.54 5.56e5	28.00 F1:Voltage SIR,E 331.934 8.296e+00
21.00 2 <b>3C-1,2,3,4-T</b> 200528R2_8 100  0  200528R2_8		22.50 23.00 23.50 24	13C-1,2,3,4-TCDD 25.90 5.33e5 7481509	13C-2,3,7,8-TCDD 26.54 5.56e5 8253589 13C-2,3,7,8-TCDD	28.00 F1:Voltage SIR,E 331.936 8.296e+00 m F1:Voltage SIR,E 333.93
21.00 2 <b>3C-1,2,3,4-T</b> 200528R2_8 100  0  200528R2_8		22.50 23.00 23.50 2 <sup>2</sup>	13C-1,2,3,4-TCDD 25.90 5.33e5 7481509	13C-2,3,7,8-TCDD 26.54 5.56e5 8253589 	28.00 F1:Voltage SIR,E 331.93 8.296e+00 m F1:Voltage SIR,E 333.9
21.00 2 <b>3C-1,2,3,4-T</b> 200528R2_8 100 		22.50 23.00 23.50 24	13C-1,2,3,4-TCDD 25.90 5.33e5 7481509	13C-2,3,7,8-TCDD 26.54 5.56e5 8253589 	28.00 F1:Voltage SIR,E 331.936
21.00 2 <b>3C-1,2,3,4-T</b> 200528R2_8 100  0  200528R2_8		22.50 23.00 23.50 2 <sup>2</sup>	13C-1,2,3,4-TCDD 25.90 5.33e5 7481509 13C-1,2,3,4-TCDD 25.90 6.54e5	13C-2,3,7,8-TCDD 26.54 5.56e5 8253589 	28.00 F1:Voltage SIR,E 331.936 8.296e+00 m F1:Voltage SIR,E 333.93

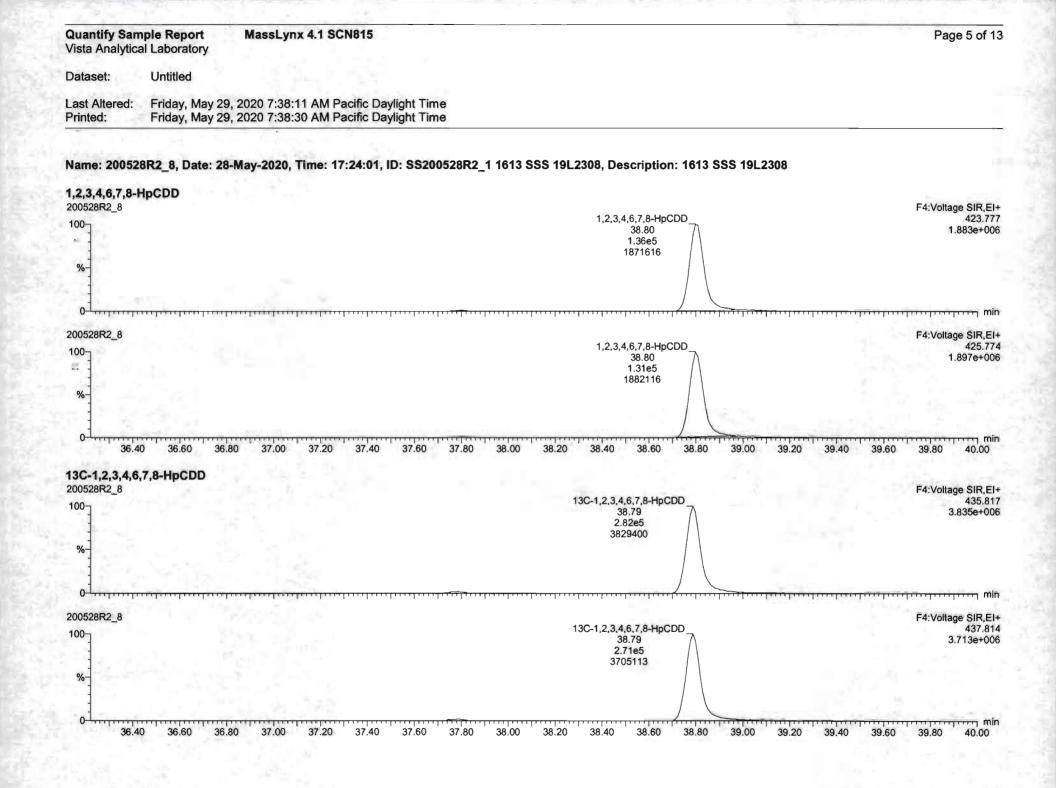
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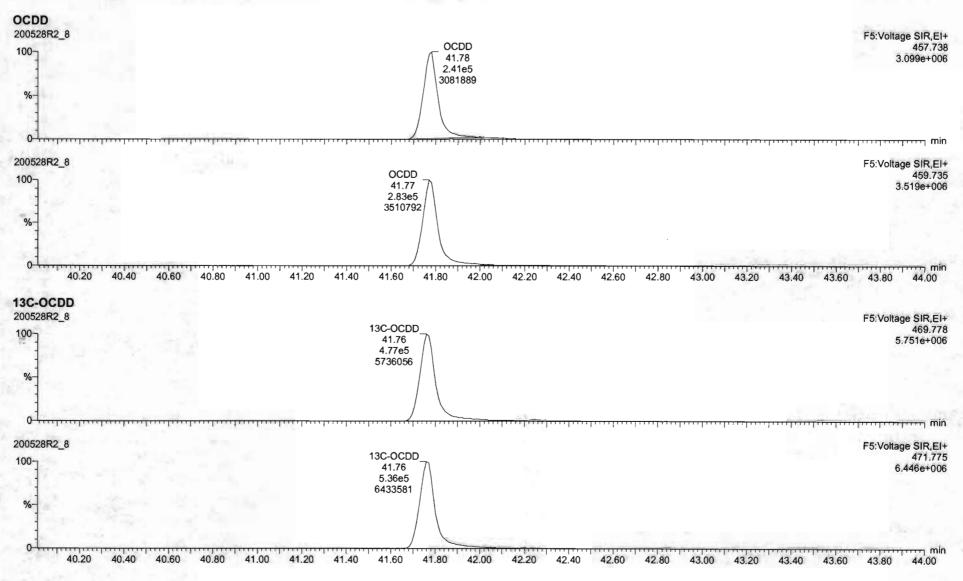


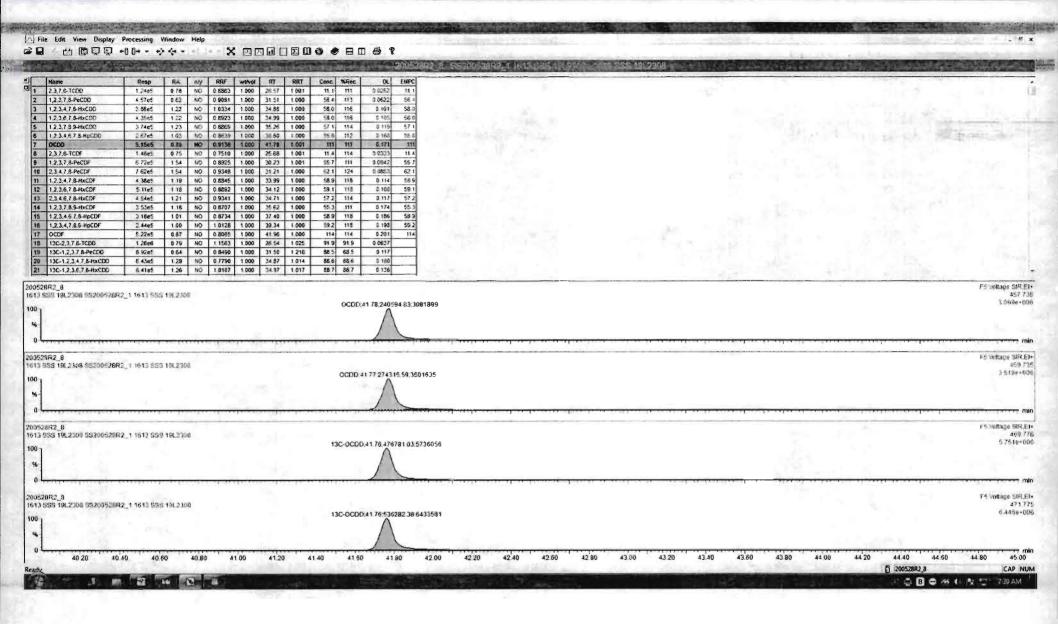
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11         1.2         2.4         7.8         1.19         NO         0.2845         1.900         3.3         9.9         1.000         58.9         115         0.114         58.6           12         1.2.2.6.7         8.4xCDF         5.116         1.18         NO         0.8852         1.000         58.9         115         0.114         58.6           12         1.2.2.6.7         8.4xCDF         5.116         1.18         NO         0.8852         1.000         52.1         116         0.106         59.1           13         2.3.4.6.7         8.4xCDF         5.3365         1.18         NO         0.8872         1.000         2.5         1.11         0.117         55.3           14         1.2.3.4.7         6.7.8.4xCDF         3.1665         1.18         NO         0.8734         1.000         2.5         1.11         0.174         55.3           15         1.2.3.4.7         7.8.4xCDF         2.3465         1.16         1.00         8.741         1.000         59.2         115         0.166         58.9           16         1.2.3.4.7         6.7.8.4xCDF         2.4465         1.00         1.000         59.2         118         0.182         59.		
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00 00528R2_8 013 955 196.2100 55200528R2_1 1613 558 196.2768 00 %	34.87 3497 13C-12.3.7.8.944kC	F3 voltage SB7E1+ 401.55 DD:35 25:408792 22.6252647 7 271e+008
0 0052862_8 613 355 10L2006 5520052882_1 1613 555 15L2308 100 54	34.87 34.97 13C-1.2.3 7.8 9+HtC	F 3 Voltage SIR E1- #0.362 DO:35 25.329930 78 5028975 \$7046-006

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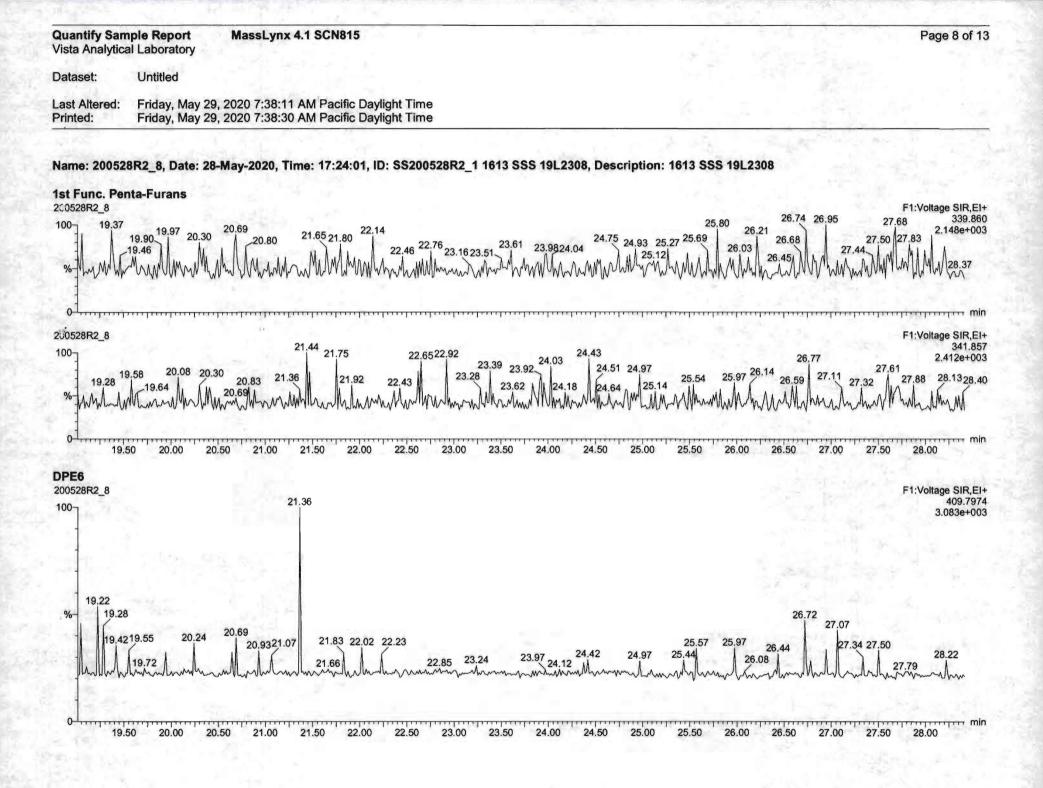


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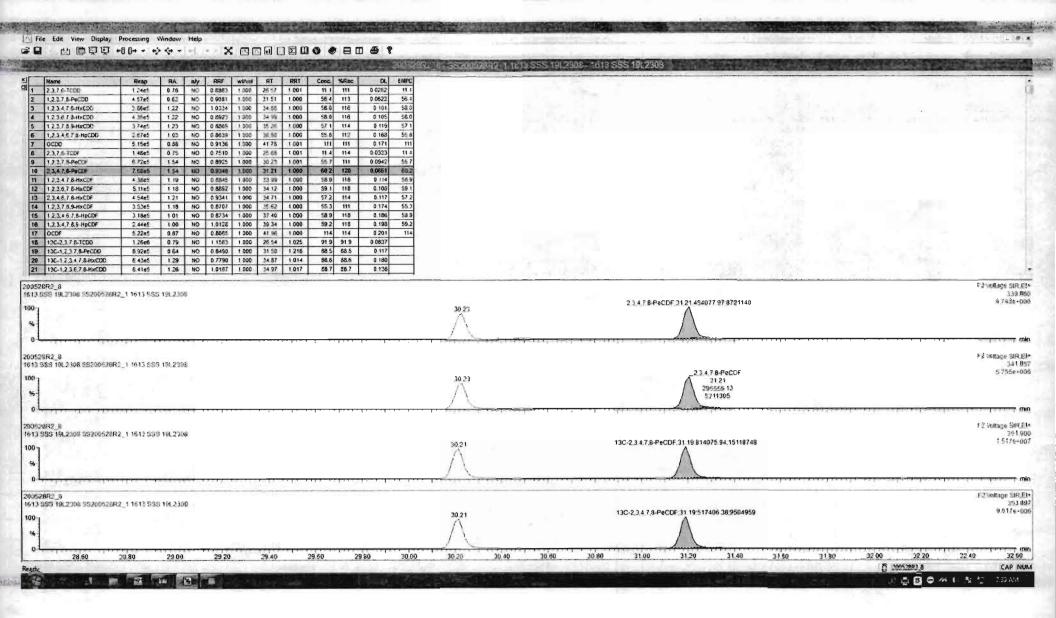


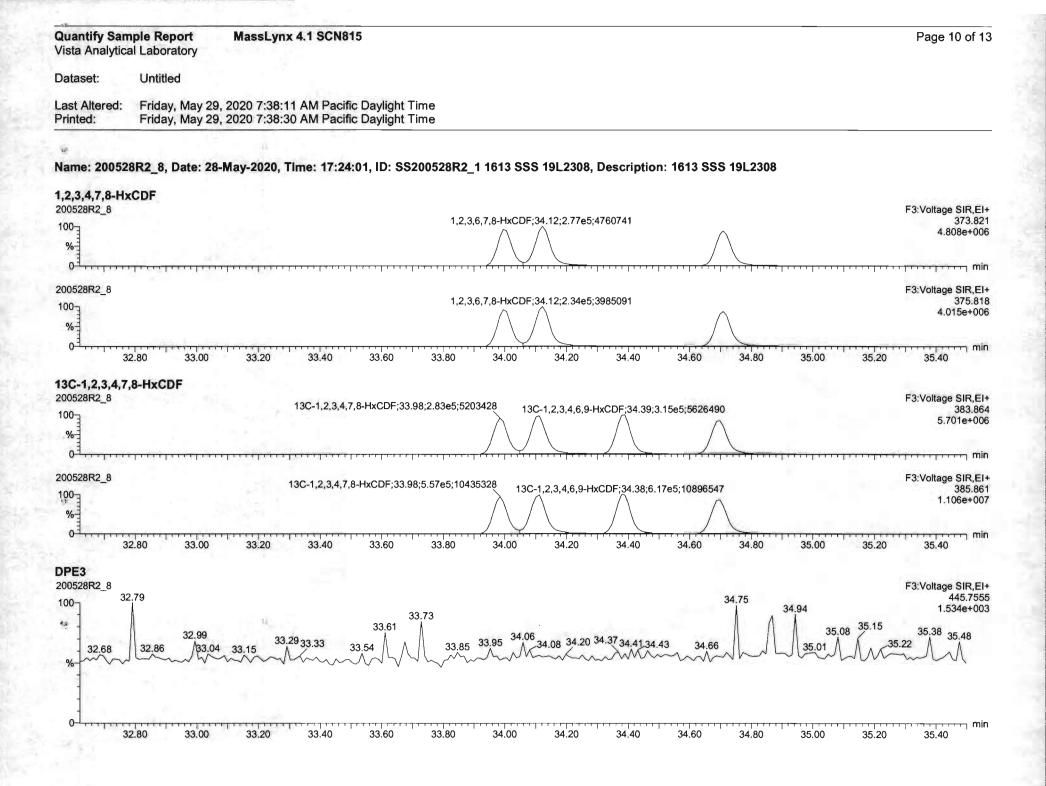


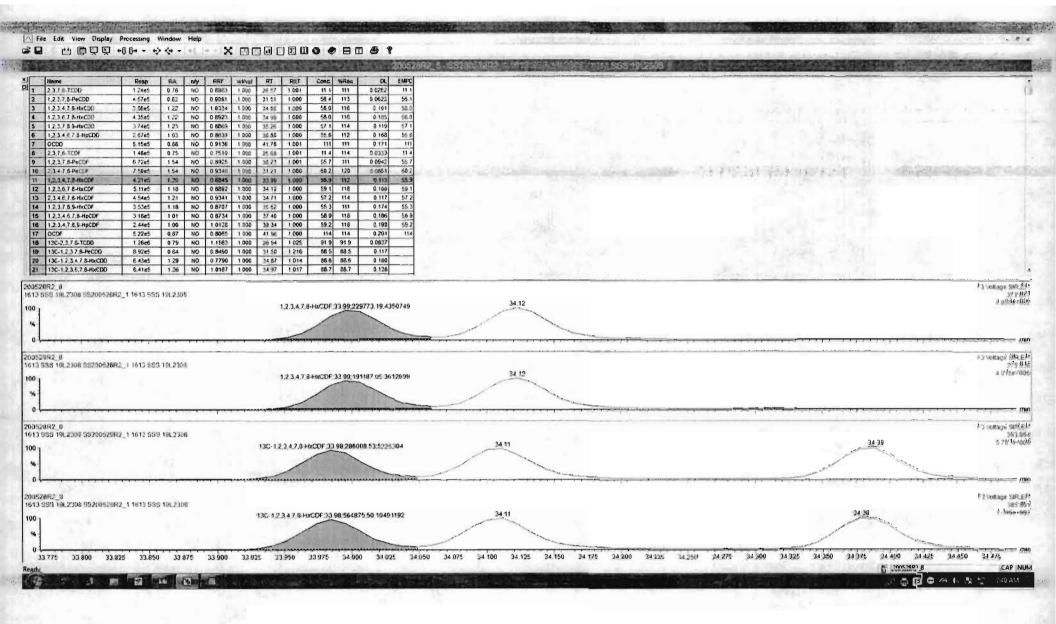
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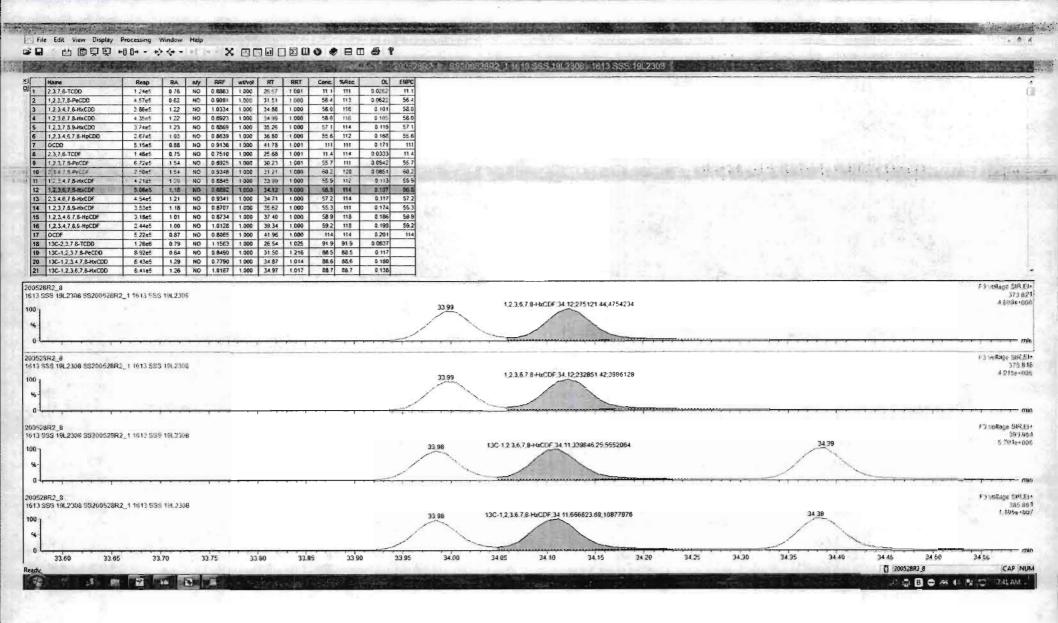


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0 28.50	28.75	29.00	29.25	29.50	29.75	30.00	30.25	30.50	30.75	5730780	31.25	31.50	31.75	32.00	32.25	32.50 m
00528R2_8															F2	Voltage SIR, E
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%		<del>-,_, , ,</del>	<del></del>	<del></del>	13C-1	,2,3,7,8-PeC	DF;30.21;8.	33e5;144150		31.19 8.04e5			<del>• • • • • • •</del>	<u></u>		351.9 1.517e+0
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0 <sup>4</sup>	28.75	29.00				1,2,3,7,8-Pe(	CDF;30.21;5	.19e5;88788	1 87 13C-2,	31.19 8.04e5 5089036 3,4,7,8-PeCE 31.19 5.09e5 9559629			, , , , , , , , , , , , , , , , , , ,	32.00 32.17 2.22e2 4095	F2 32.25 F2	Voltage SIR,E 351.9 1.517e+0 Voltage SIR,E 353.8 9.617e+0 32.50 Voltage SIR,E 409.79 4.842e+0
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% 0 0 0 0 0 0 28.50 <b>PE2</b> 00528R2_8 00 0 0 28.50 <b>PE2</b> 00528R2_8	28.84	29.00				1,2,3,7,8-Pe(	CDF;30.21;5	.19e5;88788	1 87 13C-2, 30.75	31.19 8.04e5 5089036 3,4,7,8-PeCE 31.19 5.09e5 9559629		31.50		32.17 2.22e2	F2 32.25 F2	351.9 1.517e+0 Voltage SIR,E 353.8 9.617e+0 

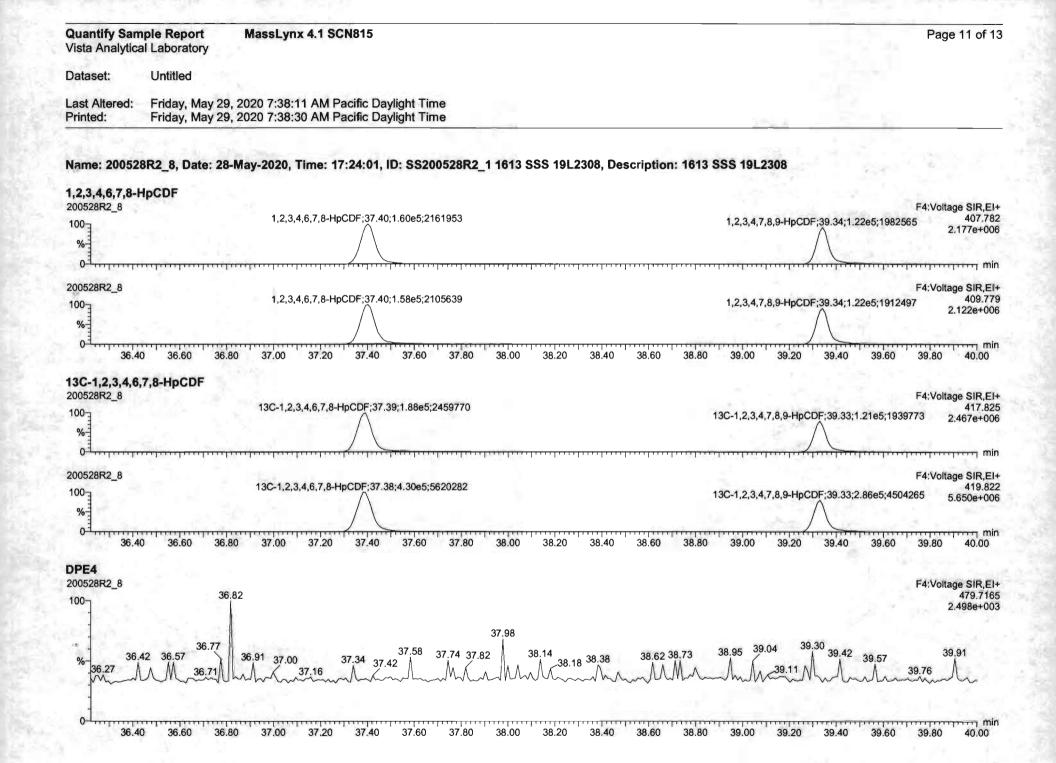


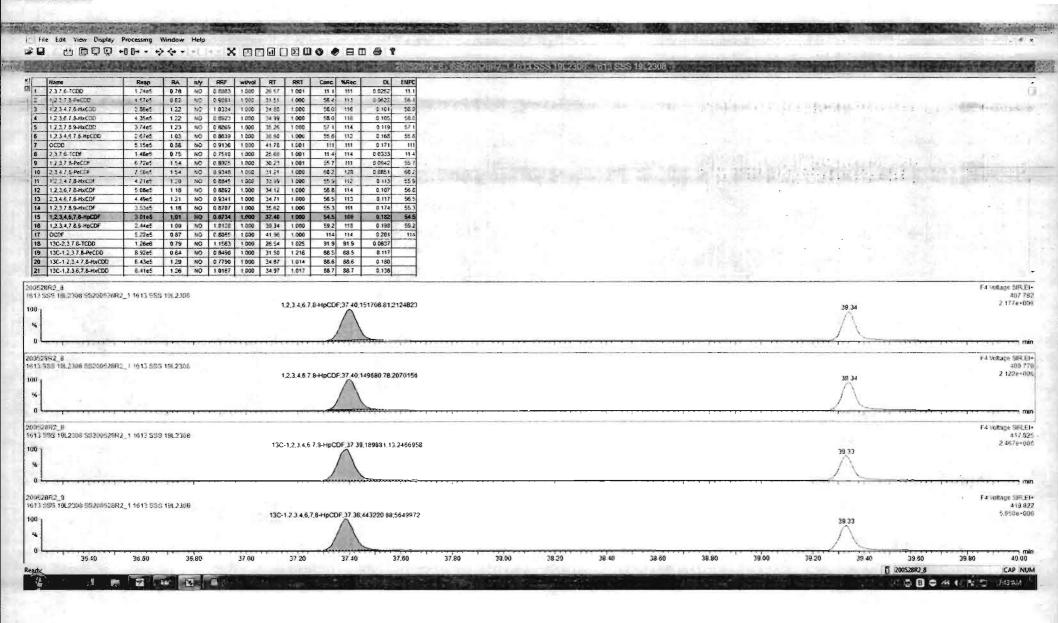


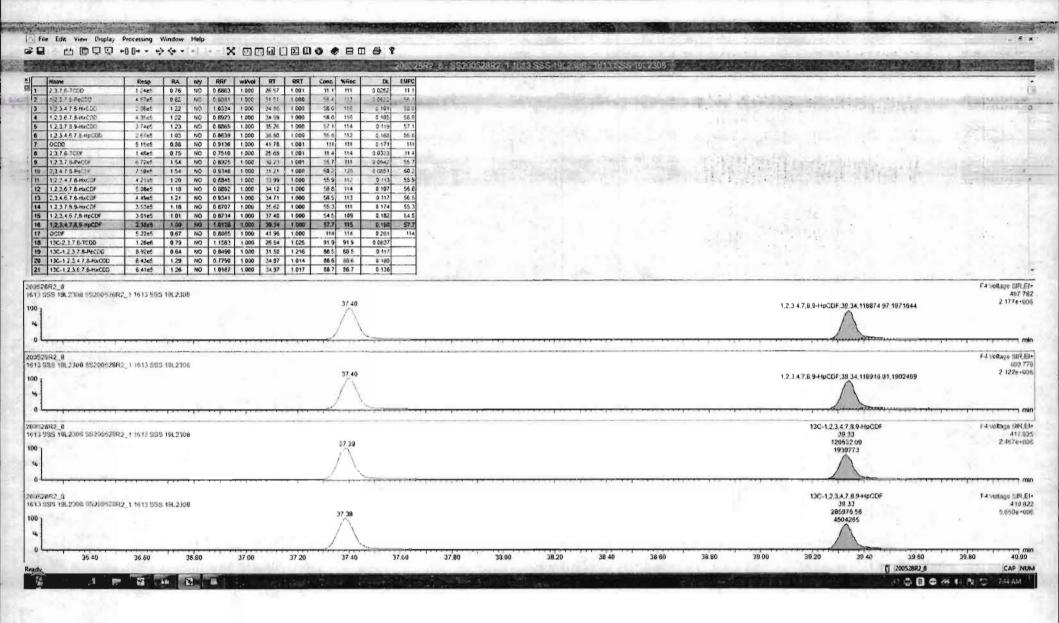


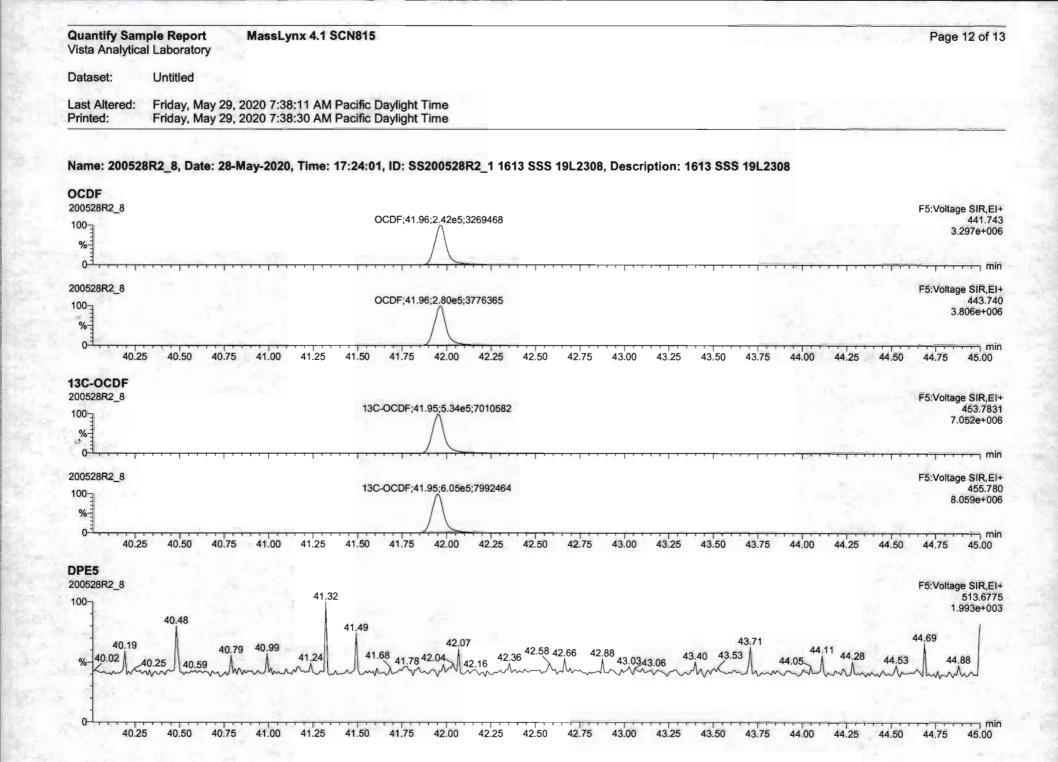


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8 237.5.TCP 9 123.7.8.PeCDF 10 314.7.8.PeCDF 11 123.4.7.8.PeCDF 12 123.6.7.8.HexCDF 13 23.4.6.7.8.HexCDF 14 12.3.7.8.PexCDF 15 123.4.6.7.8.HexCDF 16 123.4.7.8.HexCDF 17 0CDF 18 13C-12.3.7.8.PeCDD 19 13C-12.3.7.8.PeCDD	1 4845         0.75         NO         0.7510         1.000         22.88           6 72e5         1.54         NO         0.8925         1.000         20.21           7 10e5         1.54         NO         0.9486         1.000         27.21           4.74e5         1.54         NO         0.9486         1.000         27.21           4.74e5         1.00         0.9486         1.000         2.73           5.05e5         1.16         NO         0.8584         1.000         2.74           4.46e5         1.21         NO         0.8584         1.000         34.12           4.46e5         1.21         NO         0.8541         1.000         34.72           3.53e5         1.81         NO         0.8741         1.000         35.74           3.53e5         1.81         NO         0.8734         1.000         37.40           2.44e5         1.00         NO         1.8724         1.000         37.40           3.44e5         1.00         NO         0.8655         1.000         31.94           3.22e5         0.87         NO         0.8655         1.000         21.94           3.52e6         0.75 </td <td>1001         11.4         114         0.033.3         11.4           1001         58.7         111         0.0642         55.7           1000         46.2         120         0.0641         60.2           1000         55.8         112         0.133         55.5           1000         55.8         114         0.107         56.5           1000         55.8         114         0.117         56.5           1000         55.3         111         0.142         55.3           1000         55.3         118         0.185         58.9           1000         55.3         118         0.185         58.2           1000         55.2         118         0.185         58.9           1000         144         114         9.201         114           1025         91.9         91.9         0.0637         114           1216         86.8         68.5         6.3         117</td> <td></td> <td></td> <td></td>	1001         11.4         114         0.033.3         11.4           1001         58.7         111         0.0642         55.7           1000         46.2         120         0.0641         60.2           1000         55.8         112         0.133         55.5           1000         55.8         114         0.107         56.5           1000         55.8         114         0.117         56.5           1000         55.3         111         0.142         55.3           1000         55.3         118         0.185         58.9           1000         55.3         118         0.185         58.2           1000         55.2         118         0.185         58.9           1000         144         114         9.201         114           1025         91.9         91.9         0.0637         114           1216         86.8         68.5         6.3         117			
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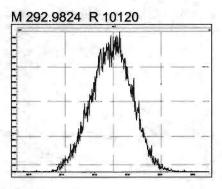
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28.50 <b>FK3</b> 0528R2_8 0 32.63 <b>FK4</b> 0528R2_8 0 36.22 0 36.42 <b>FK5</b>	F3: Voltage         33.12;8.10e5;3029193       33.71;1.68e5;1568872       34.44;1.49e5;1167734       34.72       35.11       35.54       35.85       8.68         80       33.00       33.20       33.40       33.60       33.80       34.00       34.20       34.40       34.60       34.80       35.00       35.20       35.40       35.60       35.80         80       33.00       33.20       33.40       33.60       34.00       34.20       34.40       34.60       34.80       35.00       35.20       35.40       35.60       35.80         36.73;6.18e5;2379396       37.17       37.55       37.84       38.28       38.40       38.55       38.87;3.35e4;428701       39.35;2.18e5;1332689       39.60       4.6.36         0       36.60       36.80       37.00       37.20       37.40       37.60       37.80       38.00       38.20       38.40       38.60       38.80       39.00       39.20       39.40       39.60       39.80         0       36.60       36.80       37.00       37.20       37.40       37.60       37.80       38.00       38.20       38.40       38.60       38.80       39.00       39.20       39.40       39.60       39	SIR, E 80.97 33e+0 , n 36.00 SIR, E 30.97 5Ze+0 , n 40.00
28.50 <b>K3</b> 0528R2_8 0 32.63 <b>K4</b> 0528R2_8 0 <b>K4</b> 0528R2_8 0 <b>K4</b> 0 <b>36.22</b> <b>K5</b> 0528R2_8	$\begin{array}{c} \text{F3:Voltage} \\ 33.12:8.10e5:3029193 \\ 33.20 \\ 33.40 \\ 33.20 \\ 33.40 \\ 33.60 \\ 33.20 \\ 33.40 \\ 33.60 \\ 33.60 \\ 33.80 \\ 34.00 \\ 34.20 \\ 34.40 \\ 34.20 \\ 34.40 \\ 34.60 \\ 34.60 \\ 34.60 \\ 34.80 \\ 34.60 \\ 34.80 \\ 35.00 \\ 35.20 \\ 35.20 \\ 35.40 \\ 35.60 \\ 35.60 \\ 35.60 \\ 35.80 \\ 4 \\ 6.36 \\ 4 \\ 6.36 \\ 6.3$	SIR, [ 80.97 33e+C 
28.50 <b>K3</b> 0528R2_8 0 32.63 <b>K4</b> 0528R2_8 0 <b>K4</b> 0528R2_8 0 <b>36.22</b> <b>6</b> <b>6</b> <b>6</b> <b>7</b> <b>6</b> <b>6</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b>	F3: Voltage         33.12;8.10e5;3029193       33.71;1.68e5;1568872       34.44;1.49e5;1167734       34.72       35.11       35.54       35.85       36.86         30       33.00       33.20       33.40       33.60       33.80       34.00       34.20       34.40       34.60       34.80       35.00       35.20       35.40       35.60       35.80         30       33.00       33.20       33.40       33.60       34.00       34.20       34.40       34.60       34.80       35.00       35.20       35.40       35.60       35.80         36.73;6.18e5;2379396       37.17       37.55       37.84       38.28       38.40       38.55       38.87;3.35e4;428701       39.35;2.18e5;1332689       39.60       4         0       36.60       36.80       37.00       37.20       37.40       37.60       37.80       38.00       38.20       38.40       38.60       38.80       39.00       39.20       39.40       39.60       39.80         0       36.60       36.80       37.00       37.20       37.40       37.60       37.80       38.00       38.20       38.60       38.80       39.00       39.20       39.40       39.60       39.80 <t< td=""><td>SIR, E 80.97 33e+0 , n 36.00 SIR, E 30.97 57e+0 , n 40.00 SIR, E 554.97</td></t<>	SIR, E 80.97 33e+0 , n 36.00 SIR, E 30.97 57e+0 , n 40.00 SIR, E 554.97
<b>K3</b> 28.50 <b>K3</b> 0528R2_8 0 32.63 0 36.22 0 36.42 0 37.44 1 37.4	$\begin{array}{c} \text{F3:Voltage} \\ 33.12:8.10e5:3029193 \\ 33.20 \\ 33.40 \\ 33.20 \\ 33.40 \\ 33.60 \\ 33.20 \\ 33.40 \\ 33.60 \\ 33.60 \\ 33.80 \\ 34.00 \\ 34.20 \\ 34.40 \\ 34.20 \\ 34.40 \\ 34.60 \\ 34.60 \\ 34.60 \\ 34.80 \\ 34.60 \\ 34.80 \\ 35.00 \\ 35.20 \\ 35.20 \\ 35.40 \\ 35.60 \\ 35.60 \\ 35.60 \\ 35.80 \\ 4 \\ 6.36 \\ 4 \\ 6.36 \\ 6.3$	SIR, 80.97 33e+( 33e+( 336.00 SIR, 30.97 57e+( 40.00 SIR, 54.97

#### MassLynx 4.1 SCN815

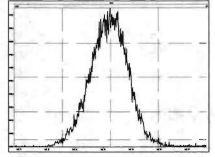
Page 1 of 1

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

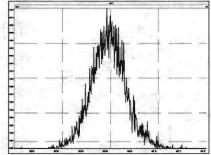
Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

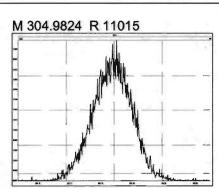


M 342.9792 R 11107

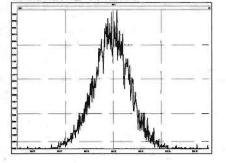


M 392.9760 R 13589

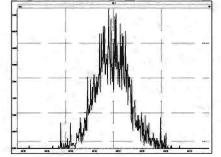


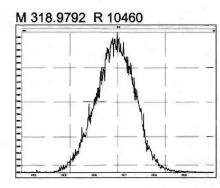


M 354.9792 R 12193

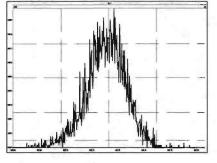


M 404.9760 R 14045

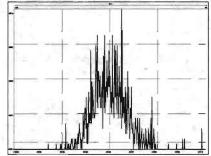




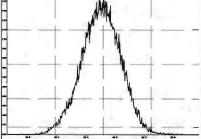
M 366.9792 R 12311



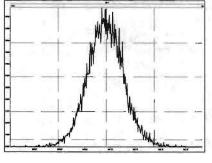
### M 416.9760 R 18245







M 380.9760 R 11904

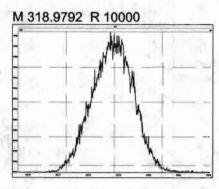


#### MassLynx 4.1 SCN815

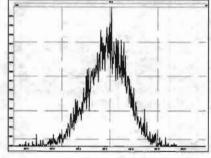
Page 1 of 1

File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:21 Pacific Daylight Time

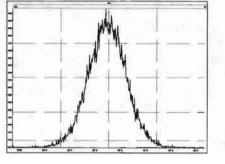


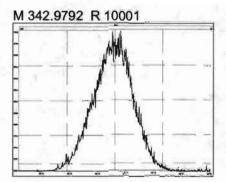
M 366.9792 R 11015



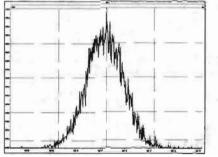
# M 330.9792 R 10372

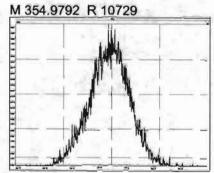
M 380.9760 R 11009



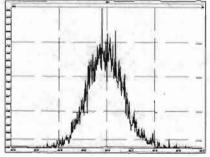


M 392.9760 R 11735

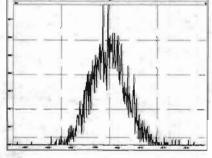




M 404.9760 R 12196



## M 416.9760 R 14968

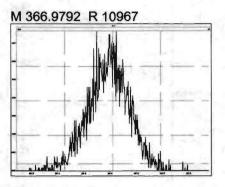


### MassLynx 4.1 SCN815

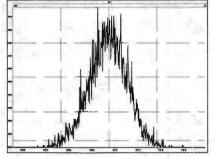
Page 1 of 1

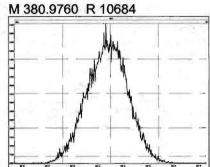
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:38 Pacific Daylight Time

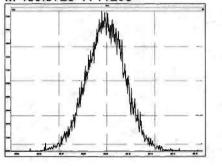


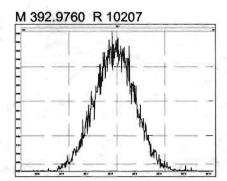
M 416.9760 R 11160

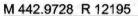


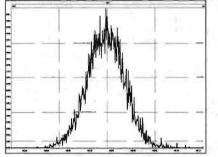


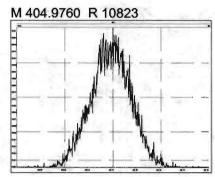
M 430.9728 R 11208



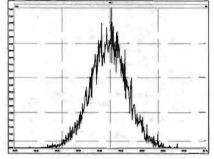








M 454.9728 R 10963

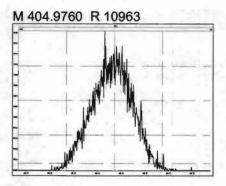


## MassLynx 4.1 SCN815

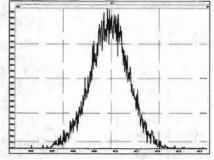
Page 1 of 1

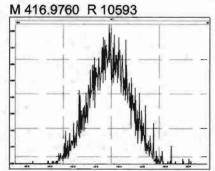
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:19:53 Pacific Daylight Time

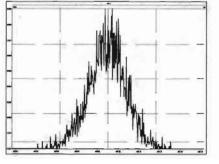


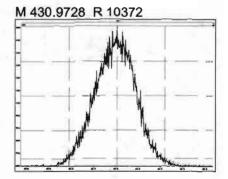
M 454.9728 R 11792

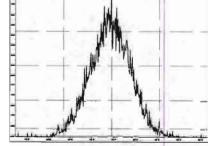




M 466.9728 R 12628

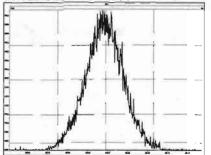






M 442.9728 R 10727

M 480.9696 R 11111

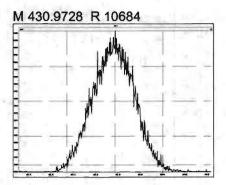


#### MassLynx 4.1 SCN815

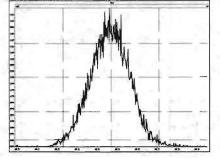
Page 1 of 1

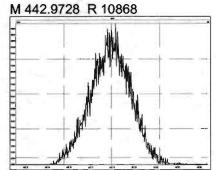
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, May 29, 2020 07:20:18 Pacific Daylight Time

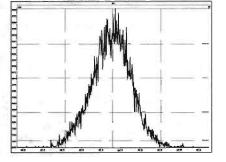


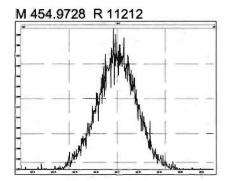
M 480.9696 R 10963



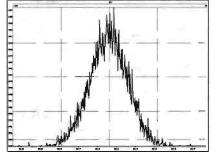


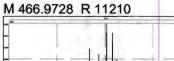
M 492.9696 R 10593

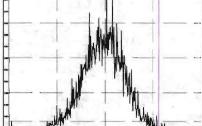




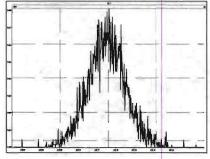
M 504.9696 R 11681







M 516.9697 R 11905



1.4

# Quantify Compound Summary Report MassLynx 4.1 Vista Analytical Laboratory VG-9 MassLynx 4.1

Dataset:	U:\VG7.PRO\Results\200211D2\200211D2_	_CRV.qld
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 CT 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

100-	# 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
0	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

# Quantify Compound Summary Report MassLynx 4.1 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

1000	# 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

X

Quantify Sam	ple Summary Report	MassLynx 4.1	Page 1 of 6
Dataset:	U:\VG7.PRO\Results\200	0211D2\200211D2_CRV.qld	
Last Altered: Printed:		2, 2020 10:17:56 Pacific Standard Time 2, 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	wt/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	0.7 <del>9</del>	NO	1030	1.000	15.78	101.65	102	0.291

#### Quantify Sample Summary Report MassLynx 4.1

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 10:38:05 Pacific Standard Time

Name: 200211D2\_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

No. Contractor	# Name	Resp	RA	n/y	RRF M	wt/voi	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

#### Quantify Sample Summary Report MassLynx 4.1

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 10:38:05 Pacific Standard Time

Name: 200211D2\_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

CARLENCE AND	# 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

Page 3 of 6

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time 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

- Court	# 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

a states	# 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 Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

1

Name: 200211D2\_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

120	# 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

# Quantify Compound Summary Report Vista Analytical Laboratory VG-11 MassLynx 4.1

Untitled Dataset:

Last Altered:	Wednesday, February 12, 2020 10:45:15 Pacific Standard Time
Printed:	Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

# Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24 Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225\_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

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

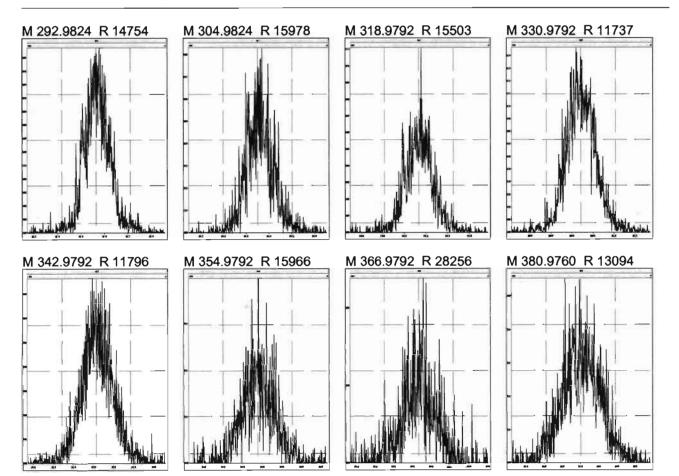
100	Name	ID	Acq.Date	Acq.Time
1	200211D2_1	SOLVENT BLANK	11-Feb-20	19:58:43
2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017	12-Feb-20	03:21:03
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017	12-Feb-20	03:52:45

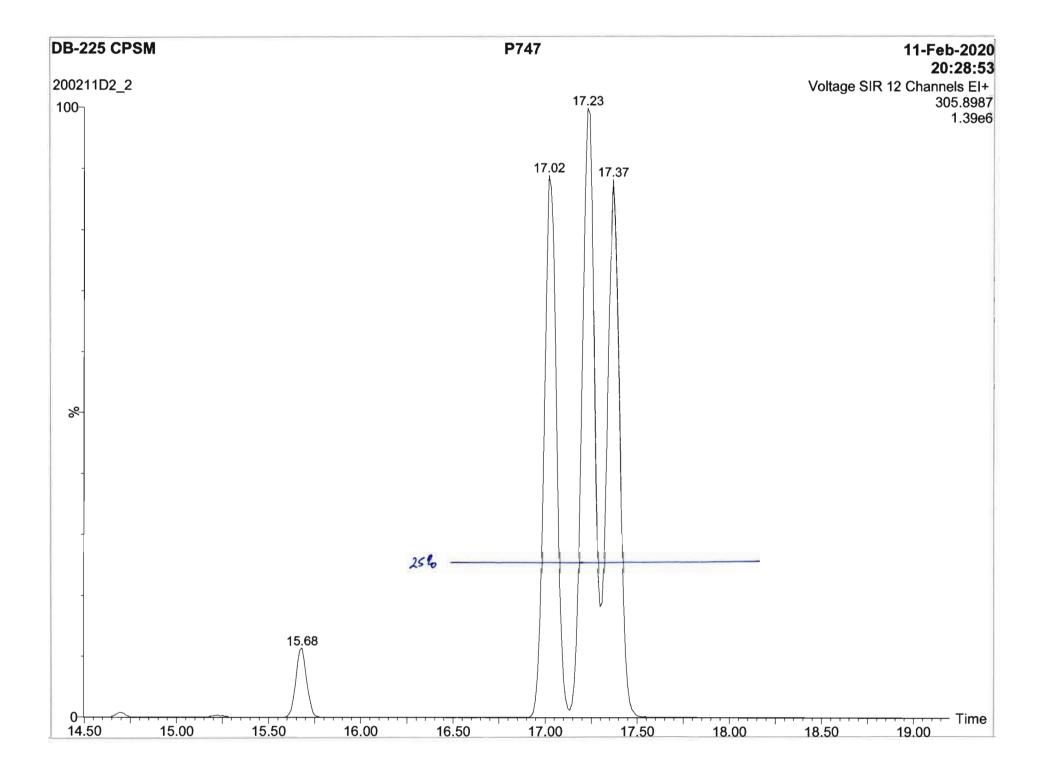
# **Resolution Check Report**

# MassLynx 4.1



Tuesday, February 11, 2020 19:58:33 Pacific Standard Time





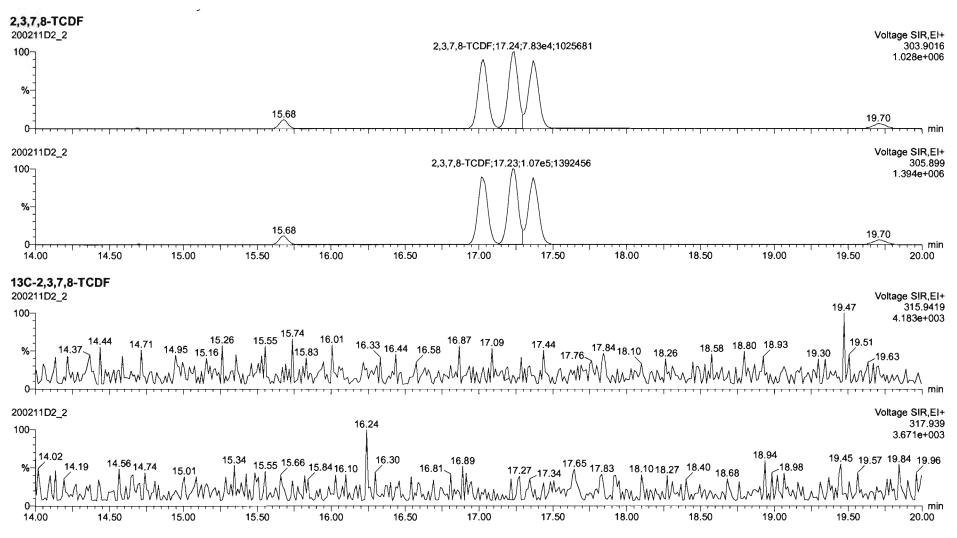
Vista Analytical Laboratory VG-11

### Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

Last Altered:	Wednesday, February 12, 2020 10:13:49 Pacific Standard Time
Printed:	Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

#### Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24 Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225\_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

### Name: 200211D2\_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

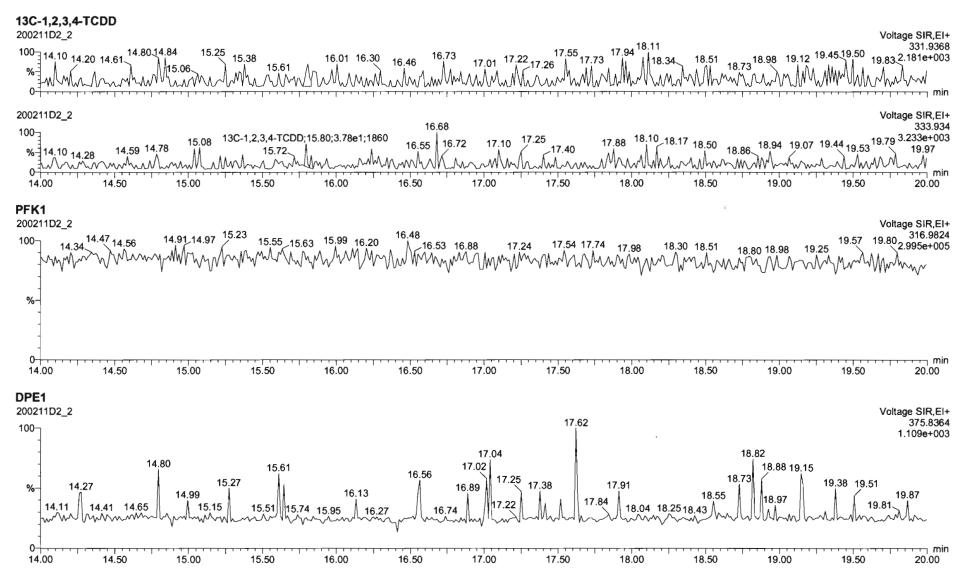


Vista Analytical Laboratory VG-11

Dataset: U:\VG7.PRO\Results\200211D2\200111D2\_2.qld

Last Altered: Wednesday, February 12, 2020 10:13:49 Pacific Standard Time Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

### Name: 200211D2\_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM



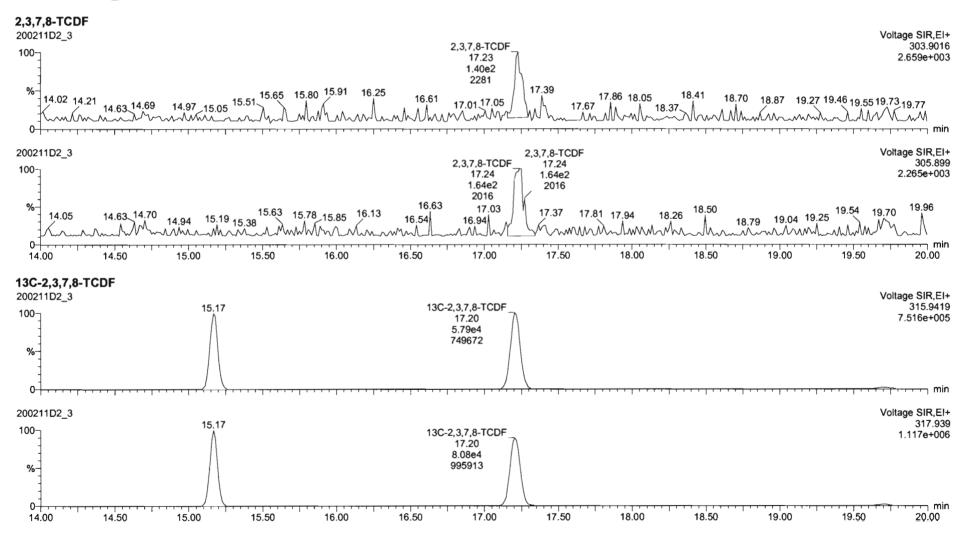
Vista Analytical Laboratory VG-11

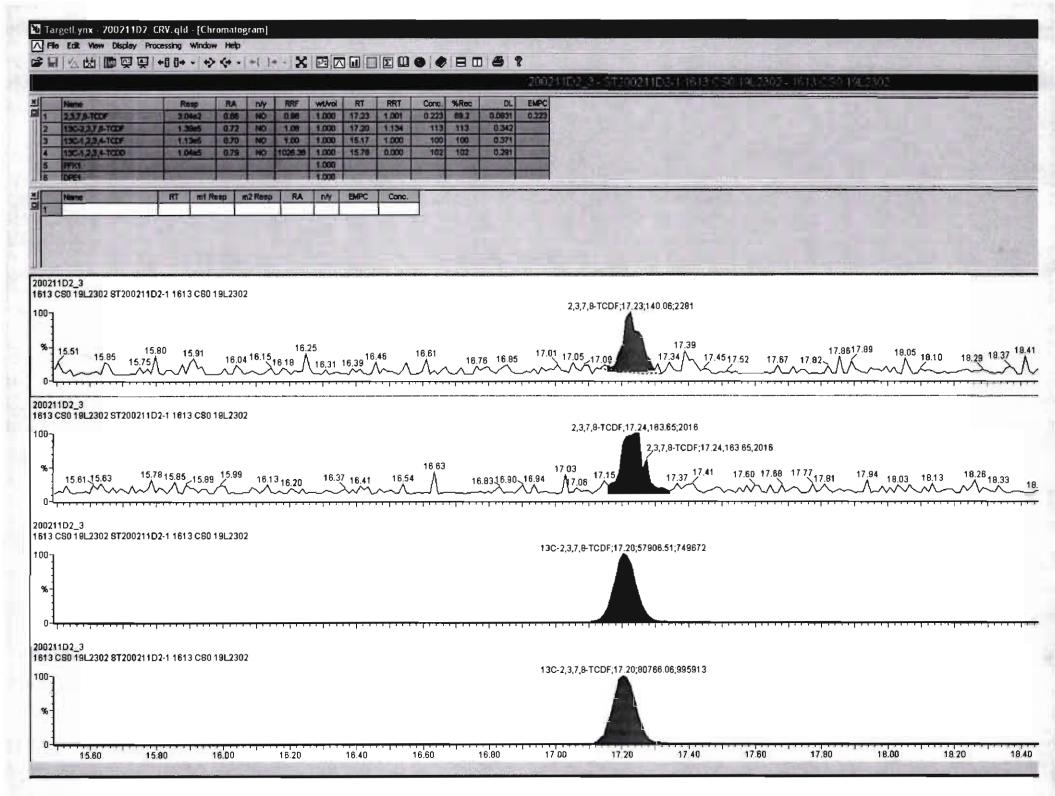
Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered:	Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed:	Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

### 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



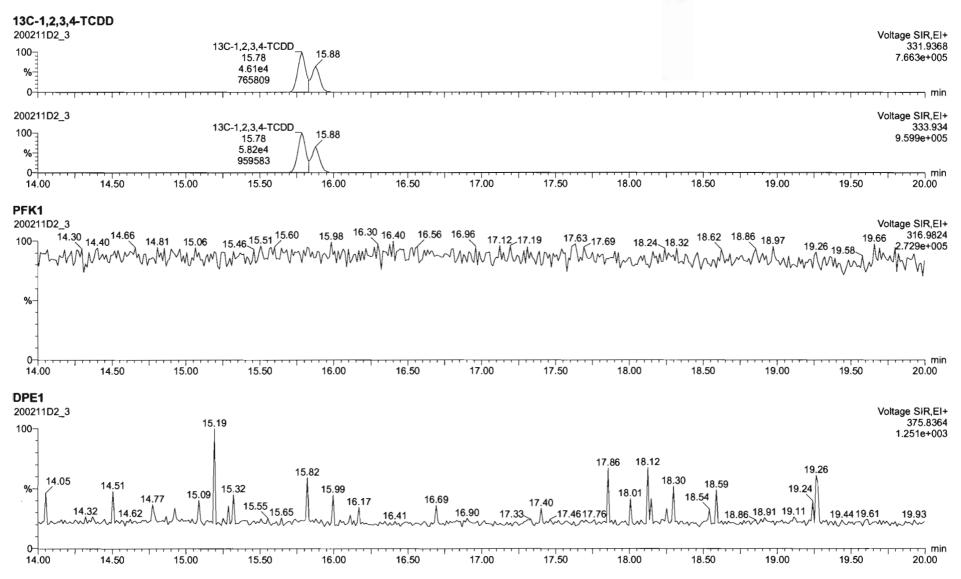


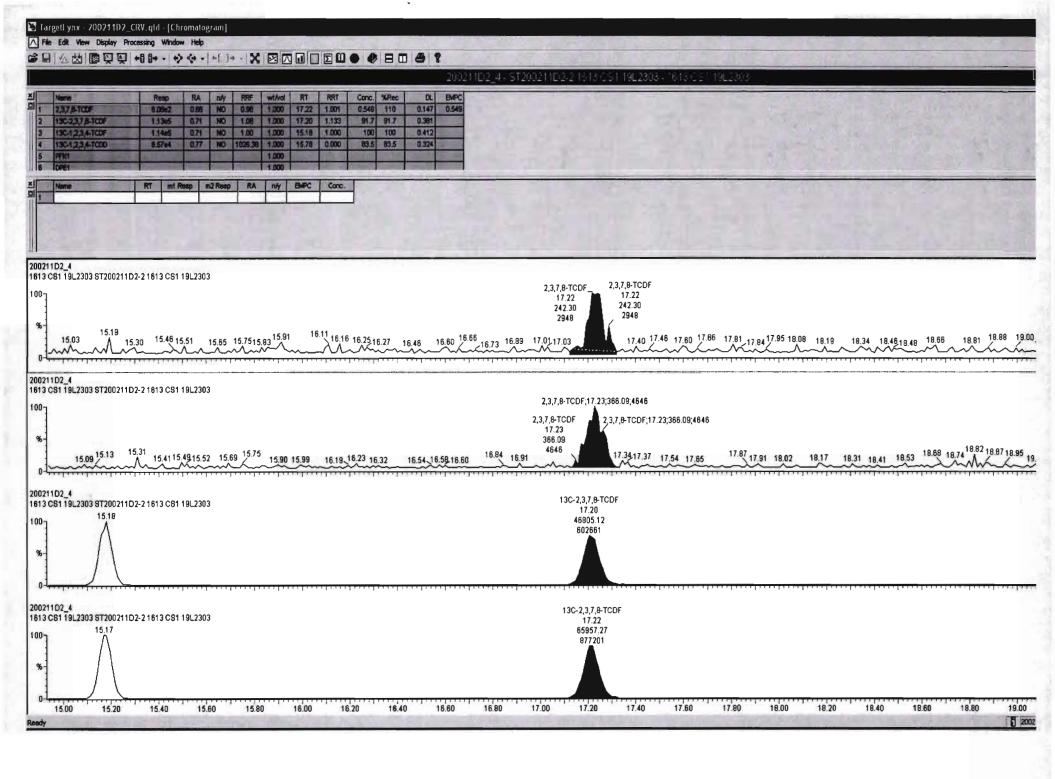
Vista Analytical Laboratory VG-11

### Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

### Name: 200211D2\_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



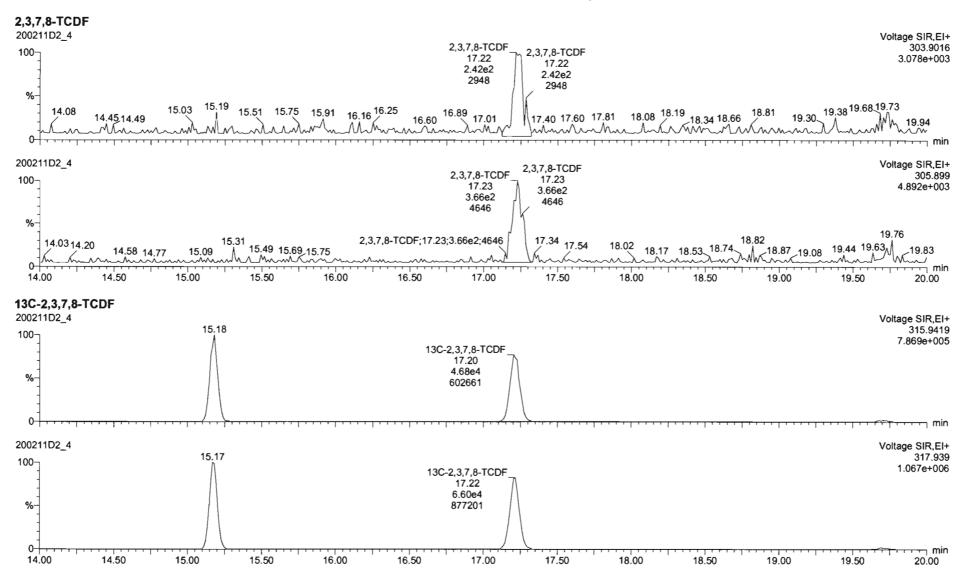


Vista Analytical Laboratory VG-11

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

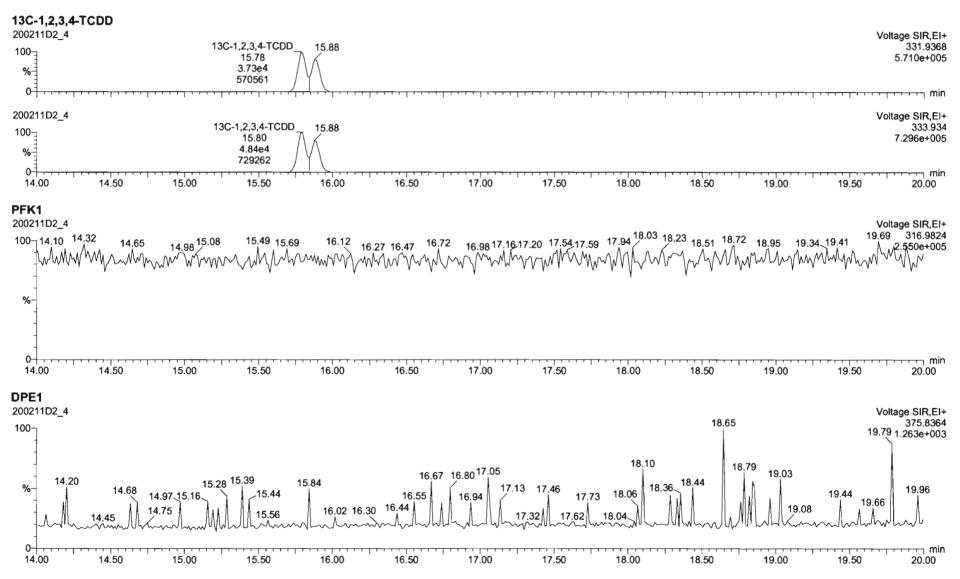


Vista Analytical Laboratory VG-11

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

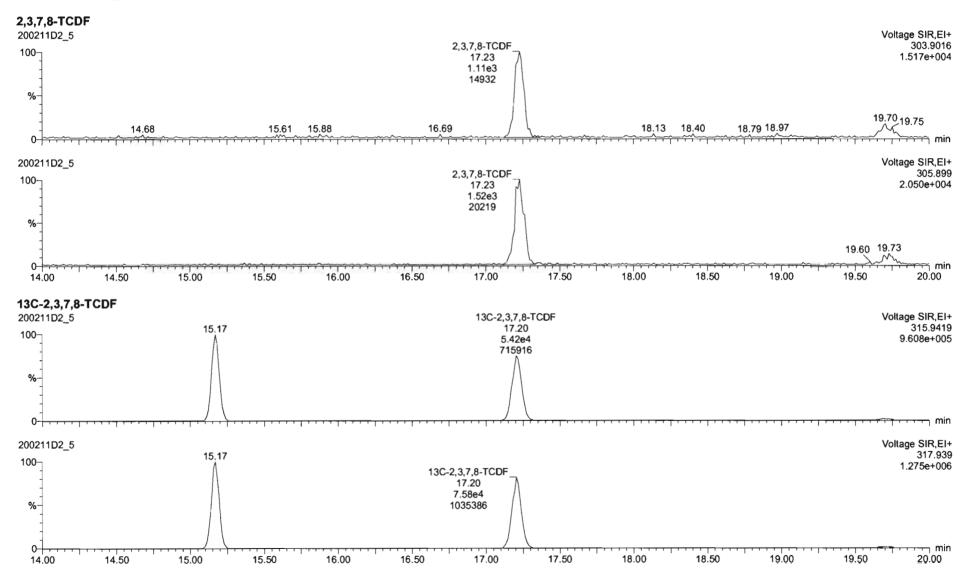


Vista Analytical Laboratory VG-11

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

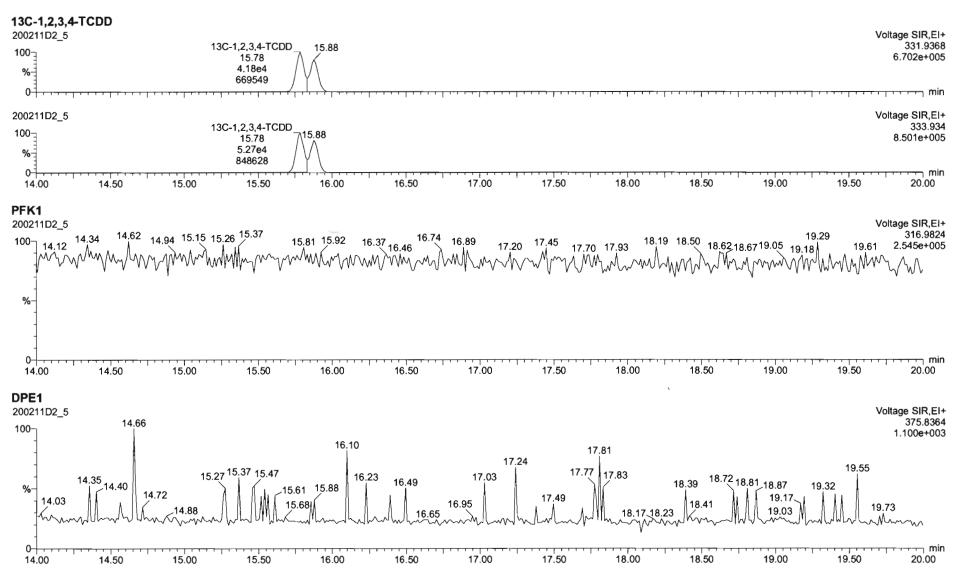


Vista Analytical Laboratory VG-11

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

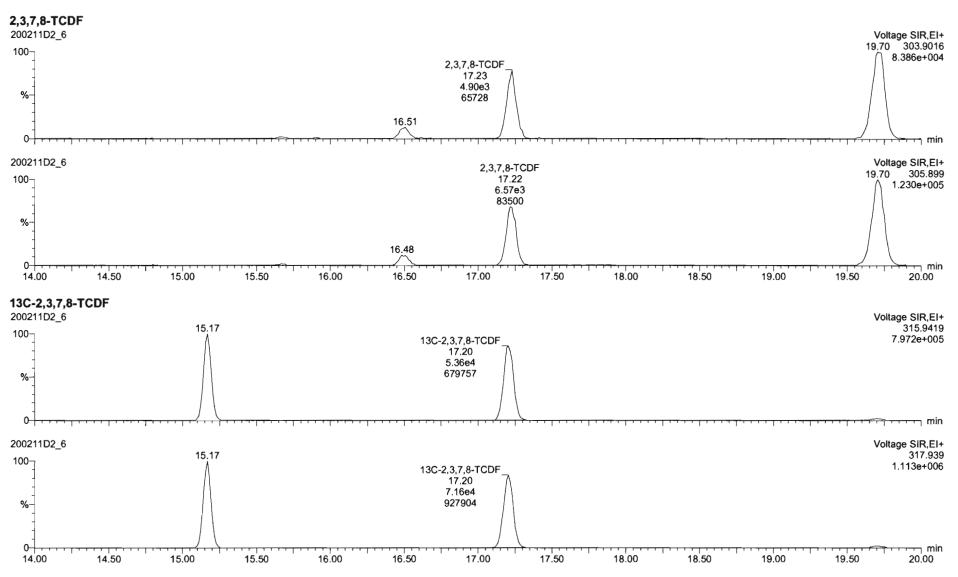


Vista Analytical Laboratory VG-11

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered:	Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed:	Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

### Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

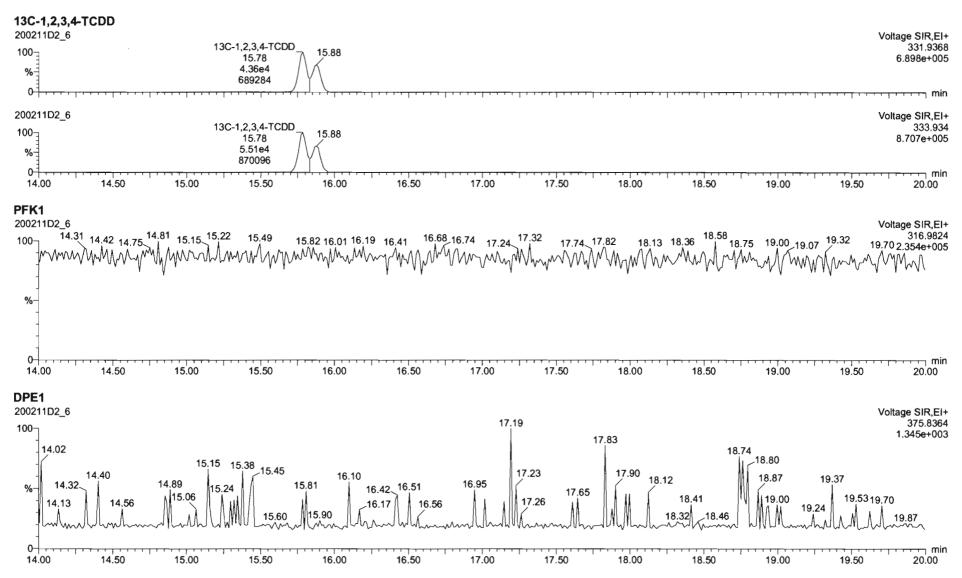


Vista Analytical Laboratory VG-11

Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

### Name: 200211D2\_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

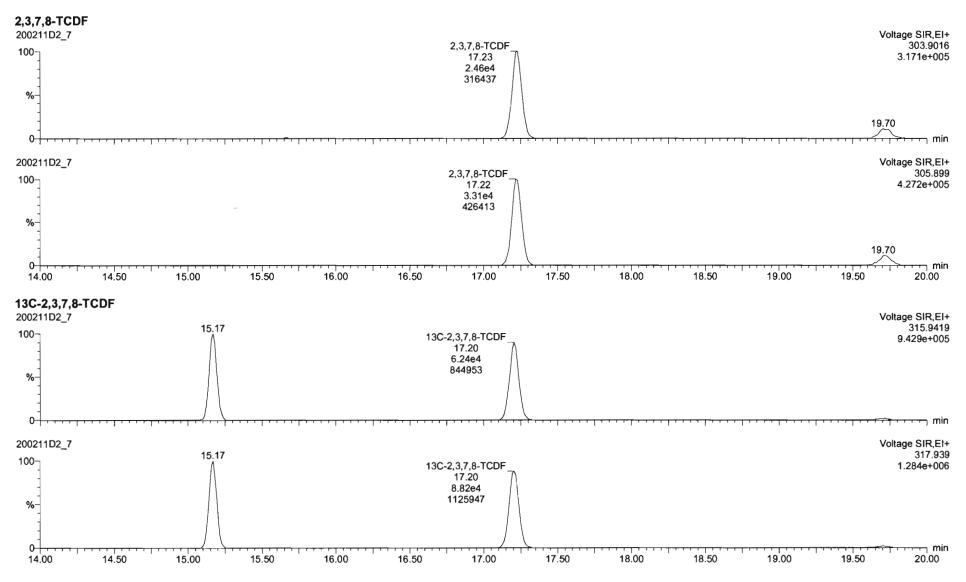


Vista Analytical Laboratory VG-11

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

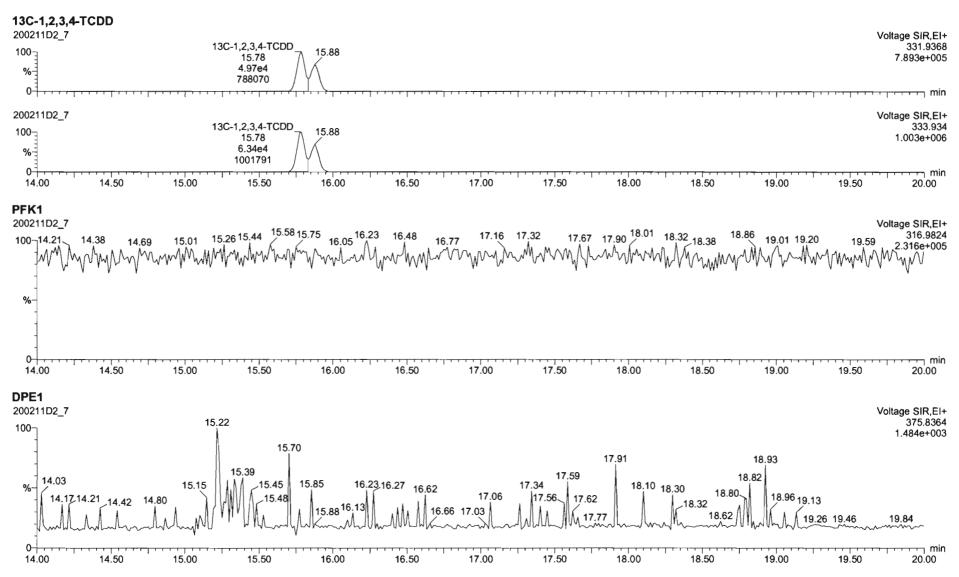


Vista Analytical Laboratory VG-11

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

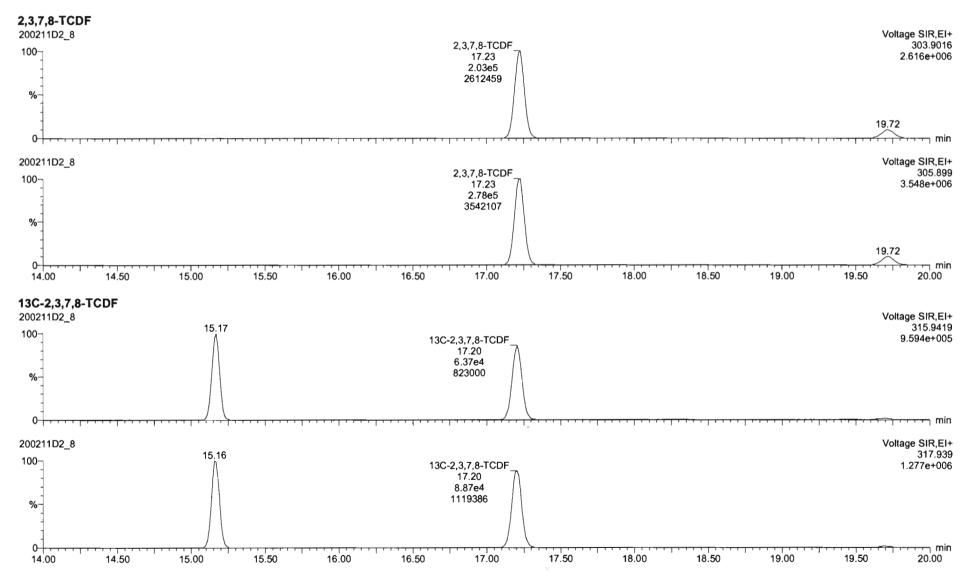


# Quantify Sample Report MassLynx 4.1 Vista Analytical Laboratory VG-11

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

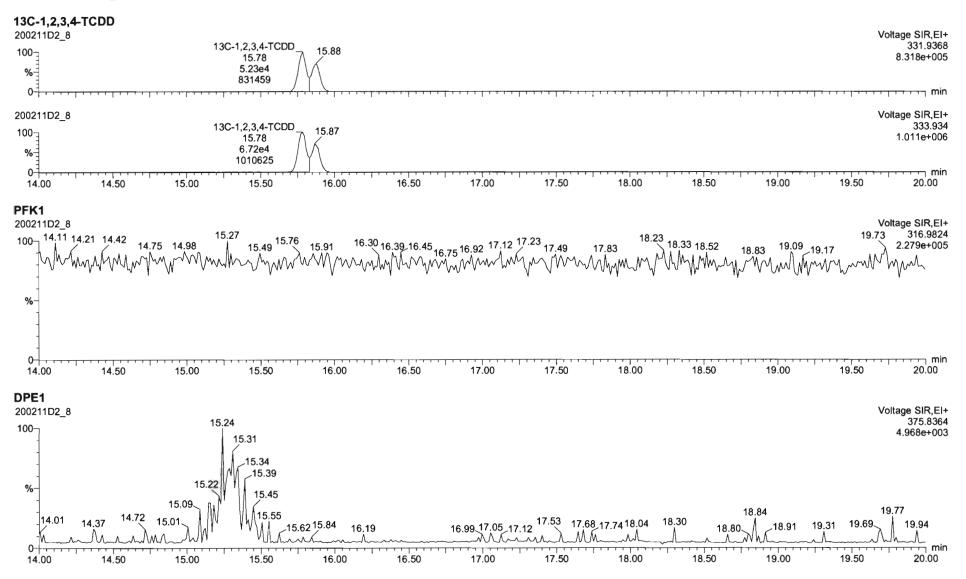


Vista Analytical Laboratory VG-11

### 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

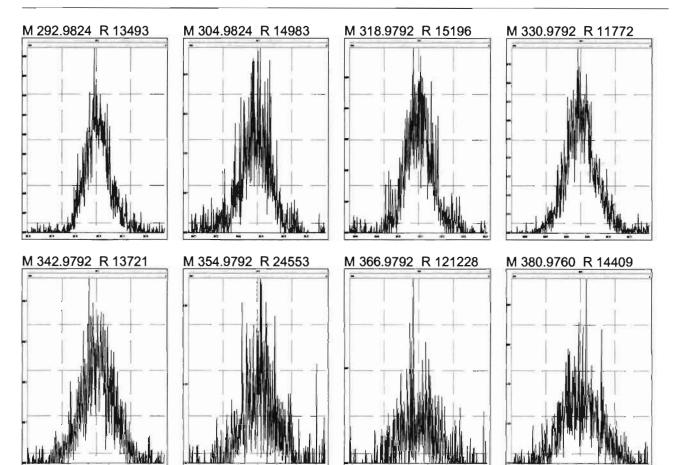


# **Resolution Check Report**

### MassLynx 4.1



## Wednesday, February 12, 2020 04:26:13 Pacific Standard Time



Dataset: U:\VG7.PRO\Results\200211D2\200211D2\_10.qld

Last Altered:Wednesday, February 12, 2020 10:51:20 Pacific Standard TimePrinted:Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

2/12/20 morpe/2020 DB

### 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

- March	# Name	Resp	RA	n/y	RRF M	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	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	3 13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	4 13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Page 1 of 1

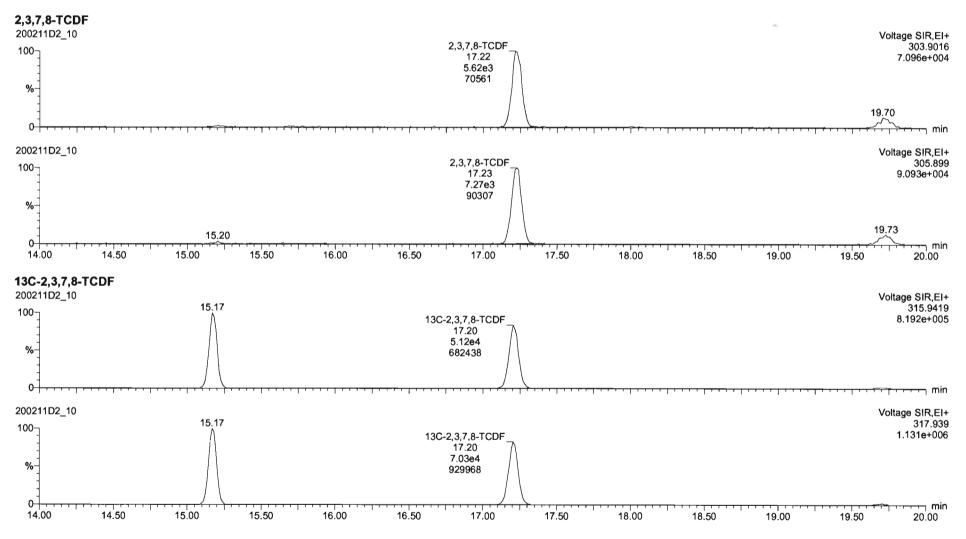
Vista Analytical Laboratory VG-11

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



Vista Analytical Laboratory VG-11

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

