

June 10, 2020

Vista Work Order No. 2001005

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 06, 2020 under your Project Name 'Gasco PDI / 000029-02.64'.

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

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

Sincerely,

Martha Maier Laboratory Director



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

Vista 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. 2001005 Case Narrative

Sample Condition on Receipt:

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

Analytical Notes:

EPA Method 1613B

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

Holding Times

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

Quality Control

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

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

As requested, a duplicate was performed on sample "PDI-164SC-A-00-01-200426". The RPD was out of the acceptance criteria for OCDD.

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

TABLE OF CONTENTS

Case Narrative	1
Table of Contents	3
Sample Inventory	4
Analytical Results	5
Qualifiers	18
Certifications	19
Sample Receipt	22
Extraction Information	25
Sample Data - EPA Method 1613	32
Continuing Calibration	288
Initial Calibration	359

Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2001005-01	PDI-164SC-A-00-01-200426	DUP26-Apr-20 10:18	06-May-20 11:10	Amber Glass, 120 mL
2001005-02	PDI-164SC-A-01-02-200426	26-Apr-20 10:18	06-May-20 11:10	Amber Glass, 120 mL
2001005-03	PDI-164SC-A-02-03-200426	26-Apr-20 10:18	06-May-20 11:10	Amber Glass, 120 mL
2001005-04	PDI-164SC-A-03-04-200426	26-Apr-20 10:18	06-May-20 11:10	Amber Glass, 120 mL
2001005-05	PDI-164SC-A-04-05-200426	26-Apr-20 10:18	06-May-20 11:10	Amber Glass, 120 mL
2001005-06	PDI-164SC-A-05-06-200426	26-Apr-20 10:18	06-May-20 11:10	Amber Glass, 120 mL
2001005-07	PDI-164SC-A-06-07-200426	26-Apr-20 10:18	06-May-20 11:10	Amber Glass, 120 mL
2001005-08	PDI-164SC-A-07-08-200426	26-Apr-20 10:18	06-May-20 11:10	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method	Blank						EPA Me	ethod 1613E
Matrix: Solid Sample Size: 10.0 g		x	E0107 May-2020 14:50		ab Sample: B0E0107-BLK1 ate Analyzed : 19-May-20 11:4	7 Column: ZB-5N	⁄IS	
Analyte Conc.	(pg/g)	DL EMP	C Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0480		IS	13C-2,3,7,8-TCDD	99.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0423			13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0466			13C-1,2,3,4,7,8-HxCDD	88.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0464			13C-1,2,3,6,7,8-HxCDD	90.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0553			13C-1,2,3,7,8,9-HxCDD	89.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0803			13C-1,2,3,4,6,7,8-HpCDD	89.8	23 - 140	
OCDD	0.198		J		13C-OCDD	84.9	17 - 157	
2,3,7,8-TCDF	ND	0.0282			13C-2,3,7,8-TCDF	95.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0310			13C-1,2,3,7,8-PeCDF	109	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0268			13C-2,3,4,7,8-PeCDF	109	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0353			13C-1,2,3,4,7,8-HxCDF	89.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0341			13C-1,2,3,6,7,8-HxCDF	91.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0374			13C-2,3,4,6,7,8-HxCDF	88.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.0760		J		13C-1,2,3,7,8,9-HxCDF	90.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0538			13C-1,2,3,4,6,7,8-HpCDF	85.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0600			13C-1,2,3,4,7,8,9-HpCDF	95.8	26 - 138	
OCDF	0.172		J		13C-OCDF	83.9	17 - 157	
				CRS	37Cl-2,3,7,8-TCDD	99.2	35 - 197	
					Toxic Equivalent Quotient (T	EQ) Data (pg/g dı	y wt)	
					TEQMinWHO2005Dioxin	0.00771		
TOTALS								
Total TCDD	ND	0.0480						
Total PeCDD	ND	0.0423						
Total HxCDD	ND	0.0553						
Total HpCDD	ND	0.0803						
Total TCDF	ND	0.0282						
Total PeCDF	ND	0.0310						
Total HxCDF	0.0760							
Total HpCDF	ND	0.0600						

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: Solid Sample Size: 10.0 g		Batch: e Extracted:	B0E0107 14-May-202	0 14:50		Lab Sample:B0E0107-BS1Date Analyzed:19-May-20 09:26	Column: ZB-5MS	
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	16.7	20.0	83.3	67 - 158	IS	13C-2,3,7,8-TCDD	90.9	20 - 175
1,2,3,7,8-PeCDD	85.5	100	85.5	70 - 142		13C-1,2,3,7,8-PeCDD	105	21 - 227
1,2,3,4,7,8-HxCDD	94.9	100	94.9	70 - 164		13C-1,2,3,4,7,8-HxCDD	88.2	21 - 193
1,2,3,6,7,8-HxCDD	91.0	100	91.0	76 - 134		13C-1,2,3,6,7,8-HxCDD	90.1	25 - 163
1,2,3,7,8,9-HxCDD	91.0	100	91.0	64 - 162		13C-1,2,3,7,8,9-HxCDD	90.4	21 - 193
1,2,3,4,6,7,8-HpCDD	94.3	100	94.3	70 - 140		13C-1,2,3,4,6,7,8-HpCDD	86.3	26 - 166
OCDD	189	200	94.6	78 - 144		13C-OCDD	82.3	13 - 199
2,3,7,8-TCDF	18.1	20.0	90.5	75 - 158		13C-2,3,7,8-TCDF	88.2	22 - 152
1,2,3,7,8-PeCDF	91.3	100	91.3	80 - 134		13C-1,2,3,7,8-PeCDF	103	21 - 192
2,3,4,7,8-PeCDF	91.4	100	91.4	68 - 160		13C-2,3,4,7,8-PeCDF	105	13 - 328
1,2,3,4,7,8-HxCDF	102	100	102	72 - 134		13C-1,2,3,4,7,8-HxCDF	88.0	19 - 202
1,2,3,6,7,8-HxCDF	101	100	101	84 - 130		13C-1,2,3,6,7,8-HxCDF	92.3	21 - 159
2,3,4,6,7,8-HxCDF	101	100	101	70 - 156		13C-2,3,4,6,7,8-HxCDF	89.3	22 - 176
1,2,3,7,8,9-HxCDF	102	100	102	78 - 130		13C-1,2,3,7,8,9-HxCDF	87.8	17 - 205
1,2,3,4,6,7,8-HpCDF	101	100	101	82 - 122		13C-1,2,3,4,6,7,8-HpCDF	83.4	21 - 158
1,2,3,4,7,8,9-HpCDF	103	100	103	78 - 138		13C-1,2,3,4,7,8,9-HpCDF	92.4	20 - 186
OCDF	192	200	96.2	63 - 170		13C-OCDF	85.6	13 - 199
					CRS	37Cl-2,3,7,8-TCDD	87.2	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-16	4SC-A-00-01-200426							EPA Me	thod 1613B
	or QEA, LLC o PDI / 000029-02.64 or-2020 10:18	Sample Matriz Samp % Sol	x: Sediment le Size: 10.9 g		Lat QC	boratory Data o Sample: 2001005-01 c Batch: B0E0107 te Analyzed : 07-Jun-20 10:1	Date Recei Date Extra 5 Column: ZB-	cted: 14-May-2020	
Analyte Conc.	(pg/g)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0716			IS	13C-2,3,7,8-TCDD	93.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.120				13C-1,2,3,7,8-PeCDD	90.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.123				13C-1,2,3,4,7,8-HxCDD	77.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.121				13C-1,2,3,6,7,8-HxCDD	82.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.157				13C-1,2,3,7,8,9-HxCDD	76.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.61			J		13C-1,2,3,4,6,7,8-HpCDD	66.9	23 - 140	
OCDD	17.4			В		13C-OCDD	57.4	17 - 157	
2,3,7,8-TCDF	ND	0.0451				13C-2,3,7,8-TCDF	91.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0741				13C-1,2,3,7,8-PeCDF	94.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0660				13C-2,3,4,7,8-PeCDF	93.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0789				13C-1,2,3,4,7,8-HxCDF	80.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0729				13C-1,2,3,6,7,8-HxCDF	87.2	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0827				13C-2,3,4,6,7,8-HxCDF	84.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.132				13C-1,2,3,7,8,9-HxCDF	78.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.361			J		13C-1,2,3,4,6,7,8-HpCDF	72.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.126				13C-1,2,3,4,7,8,9-HpCDF	71.7	26 - 138	
OCDF	ND		0.327			13C-OCDF	57.4	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	105	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g o	lry wt)	
						TEQMinWHO2005Dioxin	0.0249		
TOTALS									
Total TCDD	ND	0.0716							
Total PeCDD	ND	0.120							
Total HxCDD	0.410		1.04						
Total HpCDD	4.44								
Total TCDF	ND	0.0451							
Total PeCDF	0.150								
Total HxCDF	ND		0.231						
Total HpCDF	0.827								

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: Du	plicate							EPA Met	hod 1613B
Source Client ID: Source LabNumber: Matrix: Sample Size:	PDI-164SC-A-00-01-200426 2001005-01 Solid 10.9 g		QC Batch: Date Extracted:	B0E0107 14-May-2020 14:50	Lab Sar Date Ar		mn: ZB-5MS		
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0834			IS	13C-2,3,7,8-TCDD	94.3	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0944				13C-1,2,3,7,8-PeCDD	92.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.142				13C-1,2,3,4,7,8-HxCDD	72.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.141				13C-1,2,3,6,7,8-HxCDD	78.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.178				13C-1,2,3,7,8,9-HxCDD	71.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.62			J		13C-1,2,3,4,6,7,8-HpCDD	56.3	23 - 140	
OCDD	22.8			В		13C-OCDD	31.6	17 - 157	
2,3,7,8-TCDF	ND	0.0607	,			13C-2,3,7,8-TCDF	90.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0657	,			13C-1,2,3,7,8-PeCDF	96.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0648				13C-2,3,4,7,8-PeCDF	96.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0646				13C-1,2,3,4,7,8-HxCDF	78.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0568				13C-1,2,3,6,7,8-HxCDF	82.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0671				13C-2,3,4,6,7,8-HxCDF	75.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.106				13C-1,2,3,7,8,9-HxCDF	76.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.458			J		13C-1,2,3,4,6,7,8-HpCDF	65.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.189				13C-1,2,3,4,7,8,9-HpCDF	60.8	26 - 138	
OCDF	ND	0.218				13C-OCDF	41.8	17 - 157	
					CRS	37C1-2,3,7,8-TCDD	96.4	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g di		
						TEQMinWHO2005Dioxin	0.0276		
TOTALS									
Total TCDD	0.120								
Total PeCDD	ND	0.0944							
Total HxCDD	0.648		0.930						
Total HpCDD	4.70								
Total TCDF	ND	0.0607	,						
Total PeCDF	0.433								
Total HxCDF	0.237		0.384	В					
Total HpCDF	1.05								

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.

1 1

Sample ID: Du	plicate							EPA Me	thod 1613B
Source Client ID: Source LabNumber: Matrix:	PDI-164SC-A-00-01-200426 2001005-01 Solid		Duplicate Lab Sample: B0E0107-DUP1						
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits		Labeled Standard	Dup %R	Source %R	LCL-UCL
2,3,7,8-TCDD	ND	ND	NA	25	IS	13C-2,3,7,8-TCDD	94.3	93.6	25 - 164
1,2,3,7,8-PeCDD	ND	ND	NA	25		13C-1,2,3,7,8-PeCDD	92.5	90.9	25 - 181
1,2,3,4,7,8-HxCDD	ND	ND	NA	25		13C-1,2,3,4,7,8-HxCDD	72.5	77.9	32 - 141
1,2,3,6,7,8-HxCDD	ND	ND	NA	25		13C-1,2,3,6,7,8-HxCDD	78.2	82.2	28 - 130
1,2,3,7,8,9-HxCDD	ND	ND	NA	25		13C-1,2,3,7,8,9-HxCDD	71.7	76.3	32 - 141
1,2,3,4,6,7,8-HpCDD	1.62	1.61	0.825	25		13C-1,2,3,4,6,7,8-HpCDD	56.3	66.9	23 - 140
OCDD	22.8	17.4	26.8	25		13C-OCDD	31.6	57.4	17 - 157
2,3,7,8-TCDF	ND	ND	NA	25		13C-2,3,7,8-TCDF	90.3	91.4	24 - 169
1,2,3,7,8-PeCDF	ND	ND	NA	25		13C-1,2,3,7,8-PeCDF	96.3	94.7	24 - 185
2,3,4,7,8-PeCDF	ND	ND	NA	25		13C-2,3,4,7,8-PeCDF	96.0	93.5	21 - 178
1,2,3,4,7,8-HxCDF	ND	ND	NA	25		13C-1,2,3,4,7,8-HxCDF	78.4	80.8	26 - 152
1,2,3,6,7,8-HxCDF	ND	ND	NA	25		13C-1,2,3,6,7,8-HxCDF	82.9	87.2	26 - 123
2,3,4,6,7,8-HxCDF	ND	ND	NA	25		13C-2,3,4,6,7,8-HxCDF	75.9	84.5	28 - 136
1,2,3,7,8,9-HxCDF	ND	ND	NA	25		13C-1,2,3,7,8,9-HxCDF	76.3	78.1	29 - 147
1,2,3,4,6,7,8-HpCDF	0.458	0.361	23.8	25		13C-1,2,3,4,6,7,8-HpCDF	65.4	72.8	28 - 143
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25		13C-1,2,3,4,7,8,9-HpCDF	60.8	71.7	26 - 138
OCDF	ND	ND	NA	25		13C-OCDF	41.8	57.4	17 - 157
					CRS	37Cl-2,3,7,8-TCDD	96.4	105	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-164	4SC-A-01-02-200426							EPA Me	ethod 1613B
Project: Gasco	or QEA, LLC 9 PDI / 000029-02.64 9r-2020 10:18	Sample Matrix Sampl % Sol	x: Sediment e Size: 11.0 g		La QC	boratory Data b Sample: 2001005-02 C Batch: B0E0107 te Analyzed : 07-Jun-20 11:4	Date Recei Date Extra 8 Column: ZB-	cted: 14-May-202	
Analyte Conc.	(pg/g)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0739			IS	13C-2,3,7,8-TCDD	97.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0639				13C-1,2,3,7,8-PeCDD	95.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.110				13C-1,2,3,4,7,8-HxCDD	78.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.113				13C-1,2,3,6,7,8-HxCDD	80.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.145				13C-1,2,3,7,8,9-HxCDD	72.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.913			13C-1,2,3,4,6,7,8-HpCDD	66.1	23 - 140	
OCDD	14.8			В		13C-OCDD	50.6	17 - 157	
2,3,7,8-TCDF	ND	0.0519				13C-2,3,7,8-TCDF	93.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0581				13C-1,2,3,7,8-PeCDF	98.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0521				13C-2,3,4,7,8-PeCDF	98.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0573				13C-1,2,3,4,7,8-HxCDF	81.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0526				13C-1,2,3,6,7,8-HxCDF	88.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0597				13C-2,3,4,6,7,8-HxCDF	84.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0985				13C-1,2,3,7,8,9-HxCDF	76.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.442			13C-1,2,3,4,6,7,8-HpCDF	70.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.148				13C-1,2,3,4,7,8,9-HpCDF	71.7	26 - 138	
OCDF	0.420			B, J		13C-OCDF	52.5	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	95.5	35 - 197	
						Toxic Equivalent Quotient (TE	CQ) Data (pg/g o	dry wt)	
						TEQMinWHO2005Dioxin	0.00457		
TOTALS									
Total TCDD	ND	0.0739							
Total PeCDD	ND		0.0580						
Total HxCDD	ND		0.428						
Total HpCDD	1.74		2.65						
Total TCDF	ND	0.0519							
Total PeCDF	ND		0.269						
Total HxCDF	0.159		0.357	В					
Total HpCDF	ND		0.938						

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-16	4SC-A-02-03-200426						EPA Me	thod 1613B
Project: Gasco	or QEA, LLC o PDI / 000029-02.64 pr-2020 10:18	Sample Data Matrix: Sample Size: % Solids:	Sediment 11.1 g 90.2	Lab QC	boratory Data > Sample: 2001005-03 Batch: B0E0107 te Analyzed : 07-Jun-20 12:34	Date Receiv Date Extrac 4 Column: ZB-5	ted: 14-May-202	
Analyte Conc.	(pg/g)	DL EM	PC Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0680		IS	13C-2,3,7,8-TCDD	98.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0934			13C-1,2,3,7,8-PeCDD	95.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0849			13C-1,2,3,4,7,8-HxCDD	86.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0862			13C-1,2,3,6,7,8-HxCDD	84.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.104			13C-1,2,3,7,8,9-HxCDD	82.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.839		J		13C-1,2,3,4,6,7,8-HpCDD	74.0	23 - 140	
OCDD	9.95		В		13C-OCDD	62.0	17 - 157	
2,3,7,8-TCDF	ND	0.0423			13C-2,3,7,8-TCDF	92.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0430			13C-1,2,3,7,8-PeCDF	98.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0389			13C-2,3,4,7,8-PeCDF	98.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0618			13C-1,2,3,4,7,8-HxCDF	83.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0558			13C-1,2,3,6,7,8-HxCDF	89.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0615			13C-2,3,4,6,7,8-HxCDF	86.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0964			13C-1,2,3,7,8,9-HxCDF	84.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0686			13C-1,2,3,4,6,7,8-HpCDF	75.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0736			13C-1,2,3,4,7,8,9-HpCDF	80.0	26 - 138	
OCDF	ND	0.114			13C-OCDF	63.9	17 - 157	
				CRS	37Cl-2,3,7,8-TCDD	107	35 - 197	
					Toxic Equivalent Quotient (TE	Q) Data (pg/g di	ry wt)	
					TEQMinWHO2005Dioxin	0.0114		
TOTALS								
Total TCDD	ND	0.0680						
Total PeCDD	ND	0.0934						
Total HxCDD	ND	0.5	500					
Total HpCDD	2.24							
Total TCDF	ND	0.0423						
Total PeCDF	ND	0.1						
Total HxCDF	ND	0.2	230					
Total HpCDF	ND	0.0736						

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-16	4SC-A-03-04-200426							EPA Me	thod 1613B
Project: Gasco	or QEA, LLC o PDI / 000029-02.64 pr-2020 10:18	Sample Matrix Sampl % Soli	:: Sediment e Size: 11.6 g		Lab QC	boratory Data o Sample: 2001005-04 Batch: B0E0107 te Analyzed : 07-Jun-20 13:20	Date Received Date Extracted) Column: ZB-5M	: 14-May-2020	
Analyte Conc.	(pg/g)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0679			IS	13C-2,3,7,8-TCDD	95.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0612				13C-1,2,3,7,8-PeCDD	97.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0819				13C-1,2,3,4,7,8-HxCDD	88.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0852				13C-1,2,3,6,7,8-HxCDD	88.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.101				13C-1,2,3,7,8,9-HxCDD	85.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.513			J		13C-1,2,3,4,6,7,8-HpCDD	80.8	23 - 140	
OCDD	3.83			J, B		13C-OCDD	70.6	17 - 157	
2,3,7,8-TCDF	ND	0.0429				13C-2,3,7,8-TCDF	91.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0342				13C-1,2,3,7,8-PeCDF	100	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0312				13C-2,3,4,7,8-PeCDF	103	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0410				13C-1,2,3,4,7,8-HxCDF	89.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0374				13C-1,2,3,6,7,8-HxCDF	92.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0394				13C-2,3,4,6,7,8-HxCDF	93.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0558				13C-1,2,3,7,8,9-HxCDF	89.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0490				13C-1,2,3,4,6,7,8-HpCDF	81.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0537				13C-1,2,3,4,7,8,9-HpCDF	83.0	26 - 138	
OCDF	ND	0.0870				13C-OCDF	74.3	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	101	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g dry	wt)	
						TEQMinWHO2005Dioxin	0.00628		
TOTALS									
Total TCDD	ND		0.107						
Total PeCDD	ND	0.0612							
Total HxCDD	ND		0.258						
Total HpCDD	1.33								
Total TCDF	ND	0.0429							
Total PeCDF	ND	0.0342							
Total HxCDF	ND	0.0558							
Total HpCDF	ND	0.0537							

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-16	4SC-A-04-05-200426							EPA Me	thod 1613B
Project: Gase	or QEA, LLC o PDI / 000029-02.64 pr-2020 10:18	Sample Matri Samp % Sol	x: Sediment le Size: 11.6 g		Lat QC	boratory Data o Sample: 2001005-05 Batch: B0E0107 te Analyzed : 07-Jun-20 14:00	Date Recei Date Extra 6 Column: ZB-	cted: 14-May-2020	
Analyte Conc.	. (pg/g)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0696			IS	13C-2,3,7,8-TCDD	88.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0869				13C-1,2,3,7,8-PeCDD	97.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0910				13C-1,2,3,4,7,8-HxCDD	83.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0885				13C-1,2,3,6,7,8-HxCDD	86.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.104				13C-1,2,3,7,8,9-HxCDD	84.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.682			J		13C-1,2,3,4,6,7,8-HpCDD	75.9	23 - 140	
OCDD	3.95			J, B		13C-OCDD	66.3	17 - 157	
2,3,7,8-TCDF	ND	0.0494				13C-2,3,7,8-TCDF	81.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0534				13C-1,2,3,7,8-PeCDF	96.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0460				13C-2,3,4,7,8-PeCDF	98.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0312				13C-1,2,3,4,7,8-HxCDF	86.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0277				13C-1,2,3,6,7,8-HxCDF	92.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0287				13C-2,3,4,6,7,8-HxCDF	93.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0600			13C-1,2,3,7,8,9-HxCDF	86.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0432				13C-1,2,3,4,6,7,8-HpCDF	80.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0480				13C-1,2,3,4,7,8,9-HpCDF	80.9	26 - 138	
OCDF	ND	0.0818				13C-OCDF	68.7	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	95.0	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g o	dry wt)	
						TEQMinWHO2005Dioxin	0.00801		
TOTALS									
Total TCDD	0.102								
Total PeCDD	ND		0.0380						
Total HxCDD	0.346								
Total HpCDD	1.93								
Total TCDF	ND	0.0494							
Total PeCDF	ND	0.0534							
Total HxCDF	ND		0.0600						
Total HpCDF	ND	0.0480							

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-164	4SC-A-05-06-200426							EPA Me	thod 1613B
Project: Gased	or QEA, LLC 9 PDI / 000029-02.64 9r-2020 10:18	Sampl Matr Samp % Sc	ix: Sediment ble Size: 11.0 g		Lat QC	boratory Data o Sample: 2001005-06 Batch: B0E0107 te Analyzed : 07-Jun-20 14:52	Date Receive Date Extracte 2 Column: ZB-5M	d: 14-May-2020	
Analyte Conc.	(pg/g)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0865			IS	13C-2,3,7,8-TCDD	67.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.106				13C-1,2,3,7,8-PeCDD	73.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0909				13C-1,2,3,4,7,8-HxCDD	68.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0907				13C-1,2,3,6,7,8-HxCDD	69.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.105				13C-1,2,3,7,8,9-HxCDD	71.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.109				13C-1,2,3,4,6,7,8-HpCDD	70.6	23 - 140	
OCDD	0.671			J, B		13C-OCDD	58.9	17 - 157	
2,3,7,8-TCDF	ND	0.0439				13C-2,3,7,8-TCDF	64.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0461				13C-1,2,3,7,8-PeCDF	73.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0407				13C-2,3,4,7,8-PeCDF	74.0	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0310				13C-1,2,3,4,7,8-HxCDF	69.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0279				13C-1,2,3,6,7,8-HxCDF	73.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0293				13C-2,3,4,6,7,8-HxCDF	74.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0484				13C-1,2,3,7,8,9-HxCDF	66.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0472				13C-1,2,3,4,6,7,8-HpCDF	68.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0518				13C-1,2,3,4,7,8,9-HpCDF	70.8	26 - 138	
OCDF	ND	0.0985				13C-OCDF	61.6	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	68.8	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g dry	v wt)	
						TEQMinWHO2005Dioxin	0.000201		
TOTALS									
Total TCDD	ND	0.0865							
Total PeCDD	ND	0.106							
Total HxCDD	0.106								
Total HpCDD	ND	0.109							
Total TCDF	ND	0.0439							
Total PeCDF	ND	0.0461							
Total HxCDF	ND	0.0484							
Total HpCDF	ND	0.0518							

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-16	4SC-A-06-07-200426						EPA Me	thod 1613B
Project: Gasco	or QEA, LLC o PDI / 000029-02.64 pr-2020 10:18	Sample DataMatrix:SedimentSample Size:11.2 g% Solids:89.2		La QC	boratory Datab Sample:2001005-07C Batch:B0E0107.te Analyzed :07-Jun-20 15:3	Date Receir Date Extrac 9 Column: ZB-:	eted: 14-May-2020	
Analyte Conc.	. (pg/g)	DL EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0847		IS	13C-2,3,7,8-TCDD	86.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.128			13C-1,2,3,7,8-PeCDD	88.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0922			13C-1,2,3,4,7,8-HxCDD	80.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0911			13C-1,2,3,6,7,8-HxCDD	82.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.107			13C-1,2,3,7,8,9-HxCDD	79.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.468		J		13C-1,2,3,4,6,7,8-HpCDD	71.8	23 - 140	
OCDD	5.08		В		13C-OCDD	62.2	17 - 157	
2,3,7,8-TCDF	ND	0.0413			13C-2,3,7,8-TCDF	77.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0341			13C-1,2,3,7,8-PeCDF	89.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0329			13C-2,3,4,7,8-PeCDF	90.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0375			13C-1,2,3,4,7,8-HxCDF	82.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0339			13C-1,2,3,6,7,8-HxCDF	87.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0388			13C-2,3,4,6,7,8-HxCDF	87.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0555			13C-1,2,3,7,8,9-HxCDF	84.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0469			13C-1,2,3,4,6,7,8-HpCDF	77.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0524			13C-1,2,3,4,7,8,9-HpCDF	78.3	26 - 138	
OCDF	ND	0.104			13C-OCDF	63.9	17 - 157	
				CRS	37Cl-2,3,7,8-TCDD	88.7	35 - 197	
					Toxic Equivalent Quotient (TE	CQ) Data (pg/g d	lry wt)	
					TEQMinWHO2005Dioxin	0.00620		
TOTALS								
Total TCDD	ND	0.155						
Total PeCDD	0.119							
Total HxCDD	0.567	0.792						
Total HpCDD	1.59							
Total TCDF	ND	0.121						
Total PeCDF	ND	0.0341						
Total HxCDF	ND	0.0555						
Total HpCDF	ND	0.0524						

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-16	4SC-A-07-08-200426							EPA Me	thod 1613B
Project: Gasco	or QEA, LLC 9 PDI / 000029-02.64 9r-2020 10:18	Sample Matri Samp % So	x: Sediment le Size: 13.9 g		Lat QC	boratory Data b Sample: 2001005-08 Batch: B0E0107 be Analyzed : 07-Jun-20 16:23	Date Receive Date Extracte 5 Column: ZB-5M	ed: 14-May-2020	
Analyte Conc.	(pg/g)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0581			IS	13C-2,3,7,8-TCDD	93.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0594				13C-1,2,3,7,8-PeCDD	95.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0573				13C-1,2,3,4,7,8-HxCDD	83.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0575				13C-1,2,3,6,7,8-HxCDD	84.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0686				13C-1,2,3,7,8,9-HxCDD	81.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0805				13C-1,2,3,4,6,7,8-HpCDD	74.4	23 - 140	
OCDD	0.733			В, Ј		13C-OCDD	64.2	17 - 157	
2,3,7,8-TCDF	ND	0.0351				13C-2,3,7,8-TCDF	91.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0322				13C-1,2,3,7,8-PeCDF	96.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0326				13C-2,3,4,7,8-PeCDF	97.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0280				13C-1,2,3,4,7,8-HxCDF	86.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0251				13C-1,2,3,6,7,8-HxCDF	90.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0280				13C-2,3,4,6,7,8-HxCDF	88.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0450			13C-1,2,3,7,8,9-HxCDF	85.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0363				13C-1,2,3,4,6,7,8-HpCDF	80.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0400				13C-1,2,3,4,7,8,9-HpCDF	83.4	26 - 138	
OCDF	ND	0.0720				13C-OCDF	72.1	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	98.6	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g dr	y wt)	
						TEQMinWHO2005Dioxin	0.000220	- · ·	
TOTALS									
Total TCDD	ND		0.0890						
Total PeCDD	ND	0.0594							
Total HxCDD	ND		0.113						
Total HpCDD	ND	0.0805							
Total TCDF	ND	0.0351							
Total PeCDF	ND	0.0326							
Total HxCDF	ND		0.0450						
Total HpCDF	ND	0.0400							

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

Chain of Custody Record & Laboratory Analysis Request																	2001005 4000
Laboratory Number:				24	-	_	Te	st F	Pare	am	ete	rs					
Date: 05.04.2020 Project Name: Gasco PDI Project Number: 000029-02.64 Project Manager: Delaney Peterson Phone Number: 360.715.2707 Shipment Method: FedEx Samplers: Co, sn	Containers	Dioxin/furans (1613B)	ds (SM 2540G)														VE ANCHOR QEA
Line Field Sample ID Date/Time Matri	15	Dioxin/fu	Total solids (SM														Comments/Preservation
1 PDI-164SC-A-00-01-200426 04/26/2020 10:18:00 SE	1	X	X														Please analyze lab duplicate
2 PDI-164SC-A-01-02-200426 04/26/2020 10:18:00 SE	1	X	X														
3 PDI-164SC-A-02-03-200426 04/26/2020 10:18:00 SE	1	X	X														
4 PDI-164SC-A-03-04-200426 04/26/2020 10:18:00 SE	1	X	X														
5 PDI-164SC-A-04-05-200426 04/26/2020 10:18:00 SE	1	X	X														
6 PDI-164SC-A-05-06-200426 04/26/2020 10:18:00 SE	1	X	X														
7 PDI-164SC-A-06-07-200426 04/26/2020 10:18:00 SE	1	X	X														
8 PDI-164SC-A-07-08-200426 04/26/2020 10:18:00 SE	1	X	X										_				
9																	
10														_			
11		\pm	+	\vdash													
12								-	-	_	_						
13													 -	_	 		
14																	
15																	

Relinquished By: Modi Raduma	Company: Anchor QEA, LLC DS[05]20 16:45 Date/Time	Received By: During Night Signature/Printed Name	William RINright 5-6-20 1/10 Date/Time
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time



Sample Log-In Checklist

		200	INDE			Pag	e #	of _	_		
Vista Work Orde	r #:	20	IMD			TAT	std		_		
Samples	Date/Tim	e		Initials:		on:					
Arrival:	5-6-	20	11:10	u	ile	Shelf/F	Rack:	NA	VA		
Delivered By:	FedEx	UPS	On Tra	ac GLS	DH		Hand elivered	Other			
Preservation:		e	Blu	ue lce		Dry Io	No	None			
Temp °C: 41	(uncorr	ected)	Probe us		The		10	3			
Temp °C: 4	(correct	ted)	Probe us			Thermometer ID: 123					
							YES	NO	NA		
Shipping Contair	ner(s) Intac	t?					V				
Shipping Custod	y Seals Inta	act?						_	\times		
Airbill Trk # 7703 9021 9083											
Shipping Docum	entation Pr	esent?					V				
			())								

Shipping Documentation Present?												
Shipping Contain	Return	Disp	oose									
Chain of Custody / Sample Documentation Present?												
Chain of Custody / Sample Documentation Complete?												
Holding Time Acc	ceptable?				V							
	Date/Time		Initials:	Locat	ion: WR-2	2						
Logged In: 05 06 20 1252 WWS Shelf/Rack: 6-3												
COC Anomaly/Sa		1	1									

Comments:

CoC/Label Reconciliation Report WO# 2001005

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time	Container	Sample BaseMatrix Comments
2001005-01	A PDI-164SC-A-00-01-200426			26-Apr-20 10:18	Amber Glass, 120 mL	Solid DUP
2001005-02	A PDI-164SC-A-01-02-200426			26-Apr-20 10:18	Amber Glass, 120 mL	Solid
2001005-03	A PDI-164SC-A-02-03-200426		The state of the second	26-Apr-20 10:18	Amber Glass, 120 mL	Solid
2001005-04	A PDI-164SC-A-03-04-200426	d .		26-Apr-20 10:18	Amber Glass, 120 mL	Solid
2001005-05	A PDI-164SC-A-04-05-200426		A State of the second	26-Apr-20 10:18	Amber Glass, 120 mL	Solid
2001005-06	A PDI-164SC-A-05-06-200426			26-Apr-20 10:18	Amber Glass, 120 mL	Solid
2001005-07	A PDI-164SC-A-06-07-200426			26-Apr-20 10:18	Amber Glass, 120 mL	Solid
2001005-08	A PDI-164SC-A-07-08-200426	1		26-Apr-20 10:18	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?			1	1
Adequate Sample Volume?	v			1
Container Type Appropriate for Analysis(es)	1			1
Preservation Documented: Na2S2O3 Trizma None Other		1	1	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			1]
and the local base				+

Verifed by/Date: WW8 05 06 20

EXTRACTION INFORMATION

Prep Expiration: 2021-04-26 Client: Anchor QEA, LLC

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Workorder	Due:03-Jun-20	00:00
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TAT: 28

Matrix: Client Matrix:		Prep Data	Prep Batch: $BOEO107$ Entered: $0006/18/20$ Date and Initials Sequence: $SOE0054$
LabSampleID	Recon ClientSampleID	Date Received	Location Comments
2001005-01 A	PDI-164SC-A-00-01-200426	06-May-20 11:10	WR-2 G-3 DUP
2001005-02	PDI-164SC-A-01-02-200426	06-May-20 11:10	WR-2 G-3
2001005-03	PDI-164SC-A-02-03-200426	06-May-20 11:10	WR-2 G-3
2001005-04	PDI-164SC-A-03-04-200426	06-May-20 11:10	WR-2 G-3
2001005-05	PDI-164SC-A-04-05-200426	06-May-20 11:10	WR-2 G-3
2001005-06	PDI-164SC-A-05-06-200426	06 - May-20 11:10	WR-2 G-3
2001005-07	PDI-164SC-A-06-07-200426	06-May-20 11:10	WR-2 G-3
2001005-08 🗸	PDI-164SC-A-07-08-200426	06-May-20 11:10	WR-2 G-3

WO Comments: Dioxin - 10g (One dup required per batch o		05/14/20	
Pre-Prep Check Out: CHT 05/06/20 Pre-Prep Check In: CHT 05/08/20	Prep Check Out: <u>RP. 05/14/2</u> Prep Check In: <u>PR 05/14/2</u> Page	W	Prep Reconciled Initals/Date: CHT 05/08120 Spike Reconciled Initals/Date: P.P. 05 (14 [20 VialBoxID: CUY Y Frich

Work Order 2001005

Page 26 of 694

.

PREPARATION BENCH SHEET

Matrix: Solid

B0E0107

Chemist: R1Z

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 14-May-20 14:50

с	VISTA Sample ID	G Eqv	Sample Amt. (g)	CHEN	NS M/WIT ATE	CHE	CRS EM/WIT DATE		P EM/ TE	AB CHI DA	E M /		AA CHEM/ DATE	C	orisil HEM/ DATE	R CHEM DA	/WIT
	B0E0107-BLK1	NA	(10.00)	RR ME	05/4/20	00 %	W 05/18/	NA	r	QD 05		Ûð	05/18/20	00	5/18/20	n Eu	1 05 18 20
	B0E0107-BS1	NA	(10.00)	-	Ĩ		- 11							Ĩ		1	
	B0E0107-DUP1 2001005-01	10.84	10.86								uellout						
	B0E0107-DUP2	16.41	16.48								L						
	2000948-15RE1	11.06	11.07														
	2001005-01	10.84	10.86								uelou	•					
	2001005-02	10.99	11.03								01						
	2001005-03	11.09	11.10														
	2001005-04	11.54	11.60														
	2001005-05	11.49	11.60														I
	2001005-06	10.91	10,95														ļ
	2001005-07	11.21	mer r.		_							<u> </u>					
	2001005-08		13.90								ļ	ļ	ļ		<u> </u>		
	2001007-01		16.85				,				back						
	12001007-02	16.41	16.58	J	/						horou	<u>h</u>	6		•		
IS N		NS Name			S Name		RS Name			Cycle Ti			FUN SOX (Check (Dut:	05/14/20
PCD	D/F 1912301,100	VPCDD/F	18F1913,	10ml PC	DD/F 911	602,10	PCDD/F	qTIQ)	3,600	Start Da 05/14	/2 1		Toluene		Check I	Date: 1-47	05/14/20
PCB	l	PCB		PC	св		PCB			1617		Other	AU		Chemis	Date: KK	05/14/20
PAH	[PAH		PA	.нн		PAH			Stop Dat 05/15 0824	m	Final Volu	ume(s) <u>C14</u> 201		Balance	ID: HPA	19-8

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 2001005

5 = Sample homogenized in secondary container6 = Sample clogged during extaction; pipetted and used Nitrogen to assist

PREPARATION BENCH SHEET

Matrix: Solid

B0E0107

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 14-May-20 14:50

	VISTA	G	Sample	IS/NS	CRS	AP	ABSG	AA	Florisil	RS
	Sample ID	Eqv	Amt.	CHEM/WIT	CHEM/WIT	CHEM/	CHEM/	CHEM/	CHEM/	CHEM/WIT
C			(g)	DATE	DATE	DATE	DATE	DATE	DATE	DATE
	2001007-03	16.24	16.37	RP ME 05/14/20	0.0 /m 05/18/20	AL	0.0 05/18/20	Q0 05/18/1	0.0 05/18/20	as Ell osist
	2001007-04	13,39		T	Τ	Γ	Thock			
	2001007-05	16.13	16.21				Γ			
	2001007-06	16.96	17.03		J			Ý		U U

	\sim	(V)	V.		_	
IS Name (V3)	NS Name	CRS Name	RS Name	Cycle Time	APP: SEFUN SOX SDS	Check Out: Chemist/Date: P.P. 95/14/20
PCDD/F 19 2301, 10/12	PCDD/F 18F1913, 10ML	PCDD/F1911602,10nL	PCDD/F1951603100	Start Date/Time	SOLV: Toluene	
Р́СВ	РСВ	РСВ	РСВ	1617	Other WA	Check In: Chemist/Date: $R US / 14/2$
РАН	PAH	PAH	РАН	Stop Date/Time	Final Volume(s) <u>CI4</u>	Balance ID: HPMS-8
·				05/15/20	ZOML	

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 2001005

5 = Sample homogenized in secondary container
 6 = Sample clogged during extaction; pipetted and used Nitrogen to assist

Batch: B0E0107

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000948-15RE1	11.07 ,	90.44586	10.0124	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001005-01	10.86 -	92.29166	10.0229	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001005-02	11.03 -	91.00529	10.0379	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001005-03	11.1 /	90.20979	10.0133	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001005-04	11.6 -	86.68886	10.0559	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001005-05	11.6	87.06698	10.0998	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001005-06	10.95 -	91.68646	10.0397	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001005-07	11.24 /	89.24051	10.0306	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001005-08	13.9 /	72.46094	10.0721	20	14-May-20 14:50	RR		· ·	Sediment	1613 Full List
2001007-01	16.85 /	59.63542	10.0486	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001007-02	16.58 /	60.94118	10.1040	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001007-03	16.37 /	61.58416	10.0813	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001007-04	13.46 /	74.69697	10.0542	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001007-05	16.21 /	61.99525	10.0494	20	14-May-20 14:50	RR			Sediment	1613 Full List
2001007-06	17.03 /	58.94736	10.0387	20	14-May-20 14:50	RR			Sediment	1613 Full List
B0E0107-BLK1	10			20	14-May-20 14:50	RR				QC
B0E0107-BS1	10			20	14-May-20 14:50	RR	18F1913	10		QC
B0E0107-DUP1	10.86 /			20	14-May-20 14:50	RR				QC
B0E0107-DUP2	16.48			20	14-May-20 14:50	RR				QC

- 11

All bolded data on report verified against written benchsheet by (initial/date) 0005|18|20

Printed: 5/18/2020 2:21:45PM Page 1 of 1

Work Order 2001005

Percent Moisture/ Percent Solids

D2216-90 BATCH ID B0E0065

Analyst: CHT V	Test Code: %Moist/%Solids	
Analyte:		Data Entry Verified by: (Initial and Date) <u>RR 05/14/20 V</u>
 Dried at 110°C+/-5°C Oven ID: 01 <u>02</u>		

Date/Time IN: Date/Time OUT

Inst	HRMS-9 🗸		05/08/20 1230	05/14/20 0819	1									
	В	С	D	E	F	G	н	ľ.	ĸ	L	М	Ň	0	Р
					CHT 05/08/20 🗸	RR 05/14/20			CHT 05/08/20			NA	NA	CHT 05/08/20 V
Particle Size	SampiD		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	CI-	pH Before	pН	Acid	Sample Homogenized*
	2001005-01	A	Sample	1.3100 🚩	6,1100 🖍	5.7400 🖌	4,4300	92.29	SOIL	NA	NA	NA	NA	x 🖌
	2001005-02	A	Sample	1.3000 🗸	5.0800	4.7400	3.4400	91.01	SOIL	NA	NA	NA	NA	×
	2001005-03	A	Sample	1.3000 🗸	5.5900	5.1700	3.8700	90.21	SOIL	NA	NA	NA	NA	x
	2001005-04	A	Sample	1.3200 🌱	7.3300 🗸	6.5300	5.2100	86.69	SOIL	NA	NA	NA	NA	×
	2001005-05	A	Sample	1.3100 🗸	5.6400	5.0800	3.7700	87.07	SOIL	NA	NA	NA	NA	x
	2001005-06	A	Sample	1.3100	5.5200	5.1700 🗸	3.8600	91.69	SOIL	NA	NA	NA	NA	×
	2001005-07	A	Sample	1.2800	6.0200	5.5100 🔨	4.2300	89.24	SOIL	NA	NA	NA	NA	×
	2001005-08	A	Sample	1.3100 🗸	6.4300	5.0200 🗸	3.7100	72.46	MUD	NA	NA	NA	NA	xy
	-													
								_						
						_								

*Sample homogenized in sample container unless otherwise noted.

BCH_PMOIST_B0E0065

	and the state of the	enn na ann ann an der ant Pe	rcent Moisture/ Perce	ent Solids	
•			D2216-90	BATCH ID B0E0065	
	Analyst: (CHT Test Code: %Moist/%Solids	· · · ·	Data Entry Verified by:	
•	Analyte:	ned at <u>ا</u> ئي0°C+/-5°C		(Initial and Date) <u>NA</u>	
	Oven ID: 0				

Inst HRMS-9 Date/Time IN: Date/Time OUT 05/05/20 12/14/20

	В	С	D	E	F	G	н	1	К	L	M	N	0 P	
				Intial and Date:	CHT 05/08/20	RR 15/14/20			CHT OS	108	120		CHTOSYO	\$120
Particle Size	SampiD		SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g) 5.74 4,74	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	CI-	pH	pH After A	Acid Samp dded Homogen	nized*
	2001005-01	A	Sample	1.31	6.11	5.74			Soil				11	
	2001005-02	T	Sample	1.30	5.08	4.74						X	1	
	2001005-03		Sample	1,30 (.32	5.59	5.17			_			1	×	
	2001005-04		Sample	(.32	7:33	6.53						r	~	
	2001005-05		Sample	1.31	5.64	5.08					/		V	
	2001005-06		Sample	1.31	5.52	5,17					1		1,	
	2001005-07		Sample	1.28	6.02	5.51			V	1			VI	
	2001005-08	V	Sample	1.31	6.43	5.02			MUD				N	
										L.				
										<u> </u>				

*Sample homogenized in sample container unless otherwise noted.

BCH_PMOIST_B0E0065

SAMPLE DATA – EPA METHOD 1613

	v Sample Summary Report alytical Laboratory	MassLynx 4.1 SCN815	C. 1993 (1994) - 19	Page 1 of
Dataset:	U:\VG12.PRO\Results\2	00519R1\200519R1-5.qld	- Signal -	A STATE OF MARKEN PROPERTY OF MARKEN
Last Alte Printed:		13:59:21 Pacific Daylight Time 14:00:02 Pacific Daylight Time		GRA DE la la

688 05/19/2020 Cn 05/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200519R1_5, Date: 19-May-2020, Time: 11:47:22, ID: B0E0107-BLK1 Method Blank 10, Description: Method Blank

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.000	26.036		1.001				0.0480	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.132		1.001				0.0423	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.494		1.000				0.0466	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.590		1.000				0.0464	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.867		1.000				0.0553	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.373		1.000				0.0803	2.8
7	7 OCDD	5.71e2	0.85	NO	0.933	10.000	41.354	41.38	1.000	1.001	0.19783		0.109	0.198
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.102		1.001				0.0282	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.803		1.001				0.0310	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.820		1.001				0.0268	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.621		1.000				0.0353	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.748		1.000				0.0341	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.348		1.001				0.0374	
14	14 1.2.3,7,8,9-HxCDF	3.12e2	1.31	NO	0.864	10.000	35.208	35.24	1.000	1.001	0.075954		0.0326	0.0760
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	36.971		1.001				0.0538	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.947		1.000				0.0600	
17	17 OCDF	4.81e2	0.76	NO	0.802	10.000	41.535	41.57	1.000	1.001	0.17204		0.0828	0.172
18	18 13C-2,3,7,8-TCDD	1.51e6	0.80	NO	1.16	10.000	26.000	26.00	1.026	1.027	198.55	99.3	0.171	
19	19 13C-1,2,3,7,8-PeCDD	1.21e6	0.63	NO	0.847	10.000	31.086	31.11	1.227	1.228	218.05	109	0.288	
20	20 13C-1,2,3,4,7,8-HxCDD	8.21e5	1.28	NO	0.750	10.000	34.495	34.48	1.014	1.014	176.18	88.1	0.422	ľ
21	21 13C-1,2,3,6,7,8-HxCDD	1.08e6	1.26	NO	0.963	10.000	34.607	34.59	1.017	1.017	181.07	90.5	0.328	ľ
22	22 13C-1,2,3,7,8,9-HxCDD	9.29e5	1.22	NO	0.838	10.000	34.876	34.86	1.025	1.025	178.52	89.3	0.377	ľ
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.16e5	1.06	NO	0.641	10.000	38.366	38.36	1.128	1.128	179.69	89.8	0.365	ľ
24	24 13C-OCDD	1.24e6	0.90	NO	0.586	10.000	41.359	41.35	1.216	1.216	339.54	84.9	0.409	ľ
25	25 13C-2,3,7,8-TCDF	1.83e6	0.77	NO	1.03	10.000	25.060	25.08	0.989	0.990	191.12	95.6	0.301	ľ
26	26 13C-1,2,3,7,8-PeCDF	1.70e6	1.62	NO	0.845	10.000	29.777	29.78	1.176	1.176	217.24	10 9	0.437	
27	27 13C-2,3,4,7,8-PeCDF	1.64e6	1.58	NO	0.814	10.000	30.767	30.79	1.215	1.215	217.35	109	0.453	
28	28 13C-1,2,3,4,7,8-HxCDF	1.11e6	0.51	NO	1.00	10.000	33.634	33.62	0.989	0.988	178.53	89.3	0.473	
29	29 13C-1,2,3,6,7,8-HxCDF	1.29e6	0.50	NO	1.14	10.000	33.756	33.74	0.992	0.992	182.73	91.4	0.418	
30	30 13C-2,3,4,6,7,8-HxCDF	1.12e6	0.51	NO	1.02	10.000	34.325	34.31	1.009	1.009	176.70	88.3	0.465	
31	31 13C-1,2,3,7,8,9-HxCDF	9.51e5	0.50	NO	0.845	10.000	35.216	35.21	1.035	1.035	181.33	90.7	0.562	

Page 1 of 2

Quantify Sample Summary Report Vista Analytical Laboratory

MassLynx 4.1 SCN815

Dataset: U:\VG12.PRO\Results\200519R1\200519R1-5.qld

Last Altered:	Tuesday, May 19, 2020 13:59:21 Pacific Daylight Time
Printed:	Tuesday, May 19, 2020 14:00:02 Pacific Daylight Time

z, ID: BURName: 200519R1c5; Date: 19:May-2020, Time: 11:47:22, ID: B0E0107-BLK1 Method Blank 10, Description: Method Blank

100E24	# 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	8.20e5	0.43	NO	0.771	10.000	36.947	36.93	1.086	1.086	171.16	85.6	0.505	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.74e5	0.42	NO	0.482	10.000	38.957	38.95	1.145	1.145	191.66	95.8	0.807	
34	34 13C-OCDF	1.39e6	0.87	NO	0.669	10.000	41.529	41.53	1.221	1.221	335.54	83.9	0.351	
35	35 37CI-2,3,7,8-TCDD	5.70e5			1.10	10.000	26.030	26.03	1.028	1.028	79.371	99.2	0.0488	
36	36 13C-1,2,3,4-TCDD	1.31e6	0.80	NO	1.00	10.000	25.350	25.33	1.000	1.000	200.00	100	0.199	
37	37 13C-1,2,3,4-TCDF	1.85e6	0.79	NO	1.00	10.000	23.560	23.55	1.000	1.000	200.00	100	0.311	
38	38 13C-1,2,3,4,6,9-HxCDF	1.24e6	0.51	NO	1.00	10.000	34.000	34.01	1.000	1.000	200.00	100	0.475	1
39	39 Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0328	I
40	40 Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0192	ľ
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0298	ſ
42	42 Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0418	ſ
43	43 Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0109	I
44	44 1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.00456	
45	45 Total Penta-Furans				0.910	10.000	29.275		0.000				0.0141	
46	46 Total Hexa-Furans				0.922	10.000	33.555		0.000		0.075954		0.0227	0.0760
47	47 Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0319	

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Page 2 of 2

10 Statements - property and

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Quantify Totals Report MassLynx 4.1 SCN815

Vista Analytical Laboratory

Dataset:	U:\VG12.PRO\Results\200519R1\200519R1-5.qld
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Last Altered:	Tuesday, May 19, 2020 13:59:21 Pacific Daylight Time
Printed:	Tuesday, May 19, 2020 14:00:02 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200519R1_5, Date: 19-May-2020, Time: 11:47:22, ID: B0E0107-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

Name	RT	m1 Height m2 Height	m1 Resp m2 Resp	RA n/y	Resp	Conc.	EMPC	DL
4								

Hexa-Dioxins

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

Hepta-Dioxins

-1.6- 5.0	Name	A CARLES	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1									and the second second			

Tetra-Furans

- 1000	Name	RT	m1 Height m2 Height	m1 Resp m2 Resp	RA n/y	Resp	Conc.	EMPC	DL
1	Nation 1								

Penta-Furans function 1

	Name	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	10										

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Quantify Totals Report	MassLynx 4.1 SCN815
Vista Analytical Laborator	TY

Dataset: U:\VG12.PRO\Results\200519R1\200519R1-5.qld

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2. ID: B0:Name: 200519R1_5; Date: 19-May-2020, Time: 11:47:22, ID: B0E0107-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Angle of the Statistics of the

Hexa-Furans

1.40.0	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.24	3.432e3	2.437e3	1.769e2	1.353e2	1.31	NO	3.122e2	0.075954	0.075954	0.0326

Hepta-Furans

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

Page 2 of 2

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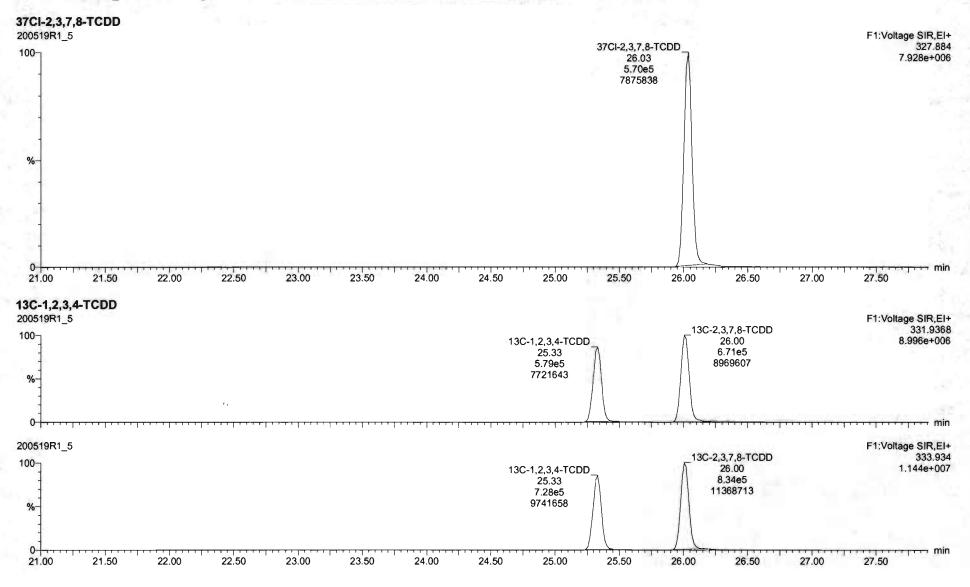
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ista Analytica	ple Report I Laboratory	MassLynx 4.1	1 SCN815						Page 1 of 2
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			9-20.mdb 29 Apr 20 13vg12-4-29-20.cdb		35:23				
ame: 200519	R1_5, Date: 19-	May-2020, Time	e: 11:47:22, ID: B0	E0107-BLK1 Meti	hod Blank 10, Des	cription: Meth	od Blank		
,3,7,8-TCDD 00519R1_5	21.68 Sr	د 22	SN G 23.57 23.49 ()		SN 25.06 7 24.51 24.72	25.14 25.18	SN .87 26.00 26.42 26.5	SN 27.10 3 27.01	F1:Voltage SIR,EI 319.896 4.429e+00 27.34 27.64
%-mm	1.62 10 21.72	22.31 22.50	MMM 123.21 N L	23.89 ^{23.94} 24.3,	MMMMM	25.36 25.57 20 25.36 25.37 20 25.37 20 25.36 25.37 20 25.37 20 25.3	Withman M.	mmmhr	27.34 27.64 27.71 mi
0519R1_5						1	26.03 5.12e2 9462 2;9462		F1:Voltage SIR,E 321.88 1.101e+00
21.19 21	.41 21.74 21.99	22.32 22.47 22.83	222.94 23.36 23.	.45 23.95 24.04	24.58.24.66 25.20	25.29 25.68	26.15 26.35	26.63 27.04 27.14	27.47 27.73 27.85
			23.00 23.50	24.00	24.50 25.00	25.50	20.00 20.00	27.00	27.50 mi
0- 21.00	21.50 22.00	22.50			24.00 20.00	20.00	26.00 26.50	12000	27.00
21.00 3 C-2,3,7,8-T 00519R1_5		22.50					_13C-2,3,7,8-TC		F1:Voltage SIR,EI 331.936
		22.50			13C-1,2,3,4-TC 25,33 5,79e5 7721643				F1:Voltage SIR,E
21.00 C-2,3,7,8-T (10519R1_5 10 %	CDD			1	13C-1,2,3,4-TC 25.33 5.79e5 7721643	DD	13C-2,3,7,8-TC 26.00 6.71e5 8969607	DD	F1:Voltage SIR,E 331.936
21.00 3C-2,3,7,8-T (10519R1_5 100 100 100 100 100 100 100 10	CDD				13C-1,2,3,4-TC 25.33 5.79e5 7721643	DD	13C-2,3,7,8-TC 26.00 6.71e5 8969607	DD	F1:Voltage SIR,E 331.936 8.996e+00
21.00 C-2,3,7,8-T (0519R1_5 0 	CDD				13C-1,2,3,4-TC 25.33 5.79e5 7721643	DD	13C-2,3,7,8-TC 26.00 6.71e5 8969607	DD	F1:Voltage SIR,E 331.936 8.996e+00

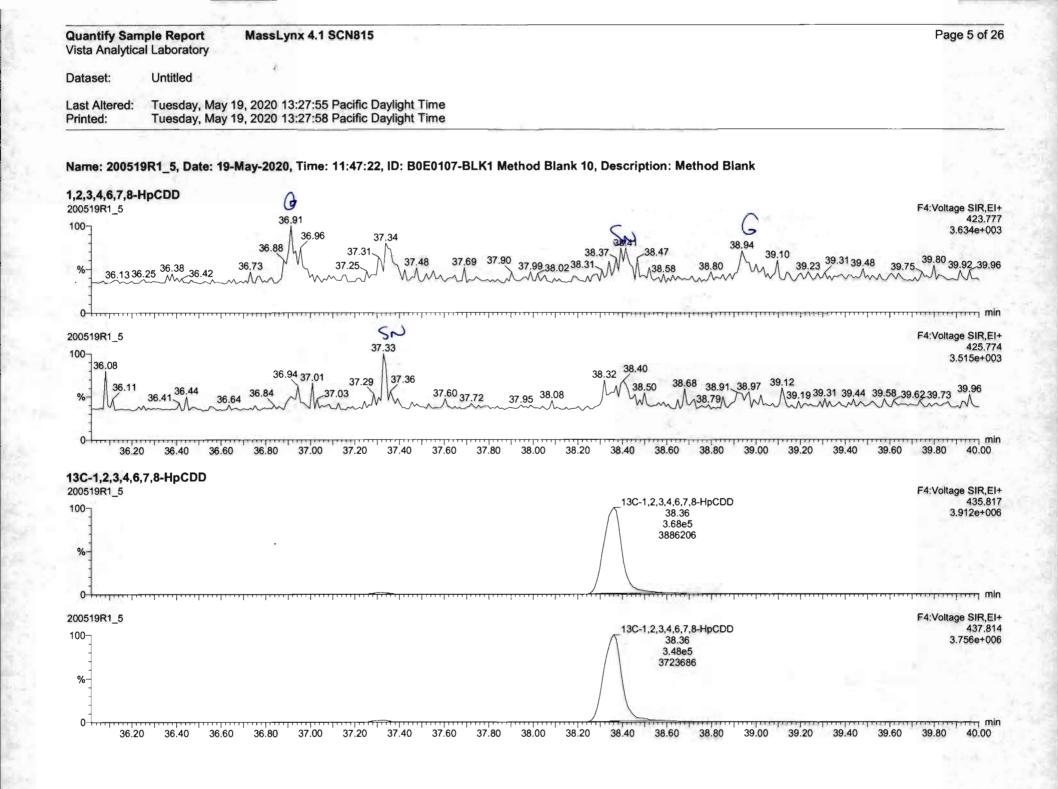
Quantify Sam Vista Analytica		Page 2 of 26
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Name: 200519R1_5, Date: 19-May-2020, Time: 11:47:22, ID: B0E0107-BLK1 Method Blank 10, Description: Method Blank

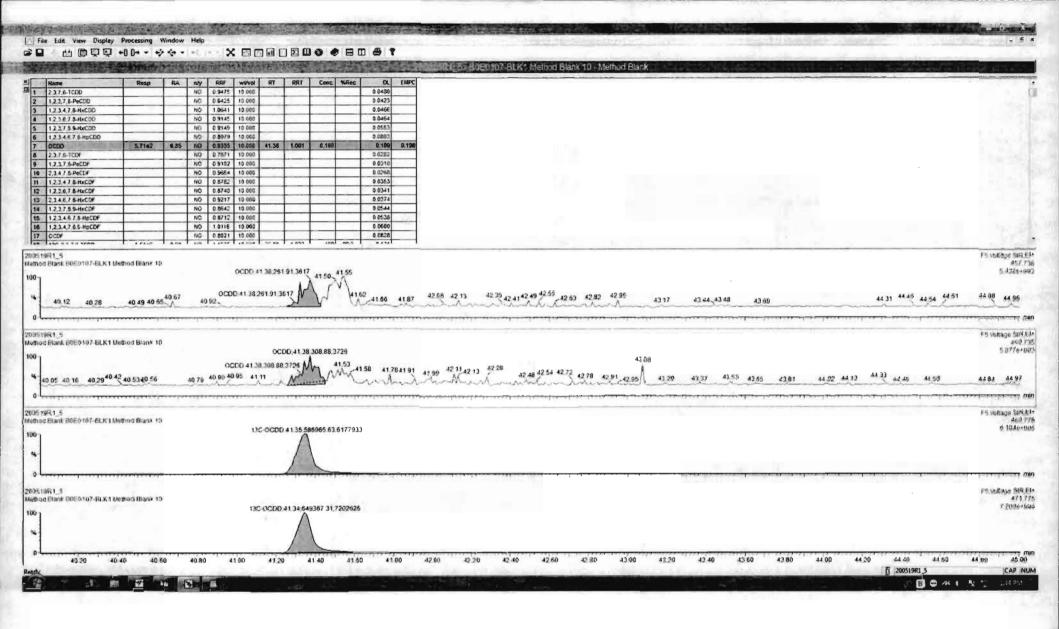


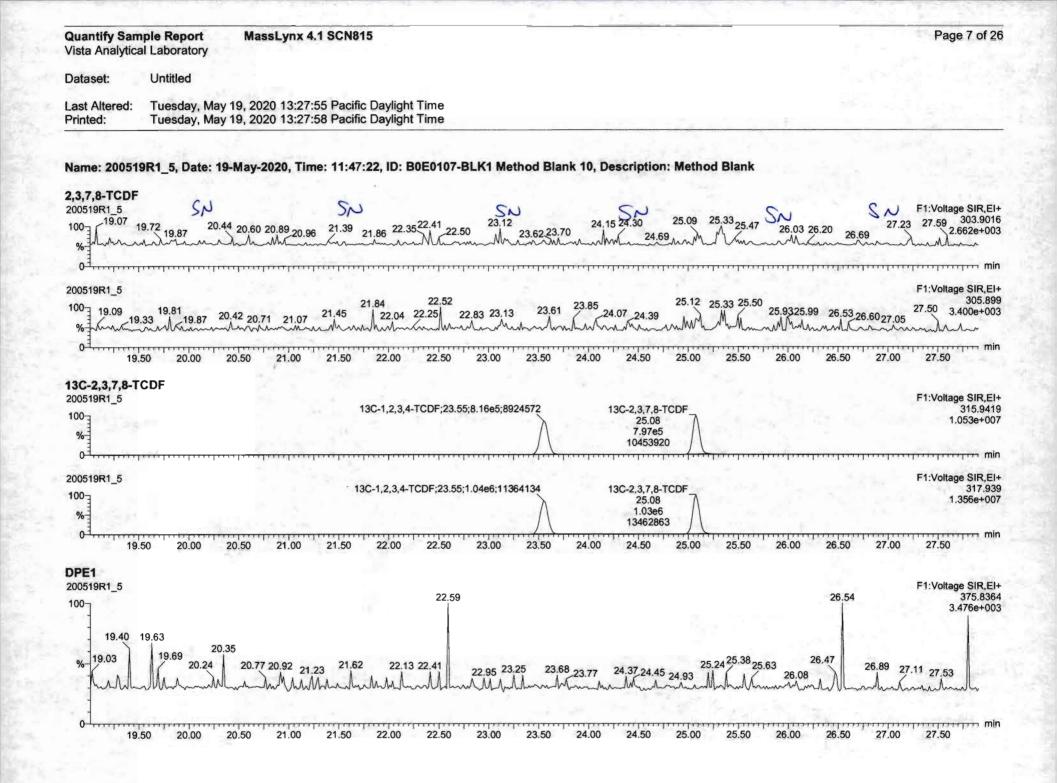
	nple Report al Laboratory	MassLynx 4.1 S						Page 3 of
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								355.8
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%-	2428.16 28.3928.52 28.25 28.50		3.81e2 5332 29.28 3.81e2 5332	9.58 29.89 30	30.35 21 30.29 30.55 30.73 30.25 30.50 30.25 30.50 30.75	$\int \int \int d^3$.32 31.58	6.704e+
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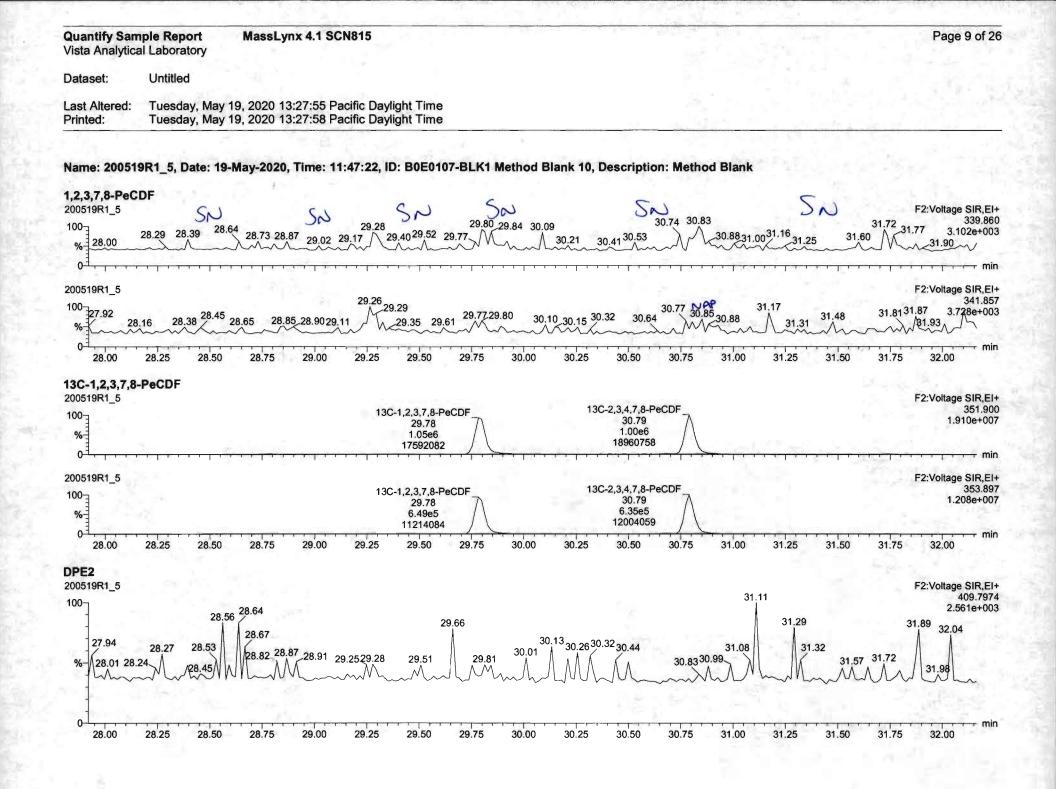


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40.16 40.2 40.20 13C-OCDD 200519R1_5	29 40.42 40.55	41.079 40.90 41.1141.23 40.80 41.00 41.20 41.40 41.60 41.80 42.00 42.21 13C-OCDD	12.28 42.48 42.72 42.78 42.91 43.20 43.37 43.53 43.65 43.81 March 43.60 43.80 43.40 43.60 43.60 43.80 44.00 F5:Voltage SIR,E 469.7
40.16 40.2 40.20 13C-OCDD 200519R1_5	29 40.42 40.55	$\begin{array}{c} 3435 \\ 41.78 \\ 41.99 \\ 41.1141.23 \\ 41.66 \\ 41.99 \\ 41.66 \\ 41.90 \\ 41.90 \\ 41.66 \\ 41.80 \\ 41.80 \\ 42.00 \\ 42.2 \\ 40.80 \\ 41.00 \\ 41.20 \\ 41.40 \\ 41.60 \\ 41.80 \\ 42.00 \\ 42.2 \\ 5.87e5 \\ 5.87e5 \end{array}$	12.28 42.48 42.72 42.78 42.91 43.20 43.37 43.53 43.65 43.81 March 43.60 43.80 43.40 43.60 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.60 43.80 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.60 43.60 43.80 43.60 43.60 43.60 43.60 43.80 43.60 43.60 43.60 43.60 43.60 43.80 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 40 40 40 40 40 40 40 40 40 4
40.16 40.2 40.20 13C-OCDD 200519R1_5	29 40.42 40.55	$\begin{array}{c} 3435 \\ 41.78 \\ 41.99 \\ 41.1141.23 \\ 41.66 \\ 41.99 \\ 41.66 \\ 41.90 \\ 41.90 \\ 41.66 \\ 41.80 \\ 41.80 \\ 42.00 \\ 42.2 \\ 40.80 \\ 41.00 \\ 41.20 \\ 41.40 \\ 41.60 \\ 41.80 \\ 42.00 \\ 42.2 \\ 5.87e5 \\ 5.87e5 \end{array}$	12.28 42.48 42.72 42.78 42.91 43.20 43.37 43.53 43.65 43.81 March 43.60 43.80 43.40 43.60 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.80 43.60 43.80 43.60 43.80 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.80 43.60 43.60 43.60 43.80 43.60 43.60 43.60 43.60 43.80 43.60 43.60 43.60 43.60 43.60 43.80 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 43.60 40 40 40 40 40 40 40 40 40 4
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40.16 40.2 40.20 13C-OCDD 200519R1_5 100- 	29 40.42 40.55	41.1141.23 41.1141.23 41.66 41.66 41.66 41.66 41.66 41.60 41.60 41.80 42.00 42.2 13C-OCDD 41.35 5.87e5 6177933 -13C-OCDD	12.28 42.35 42.48 42.72 42.78 42.91 43.20 43.37 43.53 43.65 43.81 M F5:Voltage SIR,E 469.77 6.184e+00 F5:Voltage SIR,E 469.77 6.184e+00 F5:Voltage SIR,E 469.77 6.184e+00 F5:Voltage SIR,E 471.77
40.16 40.2 40.20 13C-OCDD 200519R1_5 100- 	29 40.42 40.55	$\begin{array}{c} 3435 \\ 41.78 \\ 41.99 \\ 41.99 \\ 41.66 \\ 41.99 \\ 41.99 \\ 41.66 \\ 41.99 \\ 41.99 \\ 41.66 \\ 41.90 \\ 41.90 \\ 41.20 \\ 41.40 \\ 41.60 \\ 41.80 \\ 42.00 \\ 42.2 \\ 42.2 \\ 41.35 \\ 5.87e5 \\ 6177933 \\ 13C-OCDD \\ 41.34 \\ 6.49e5 \end{array}$	12.28 42.48 42.72 42.78 42.91 43.20 43.37 43.53 43.65 43.81 March 12 43.20 43.40 43.60 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.80 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70 43.70
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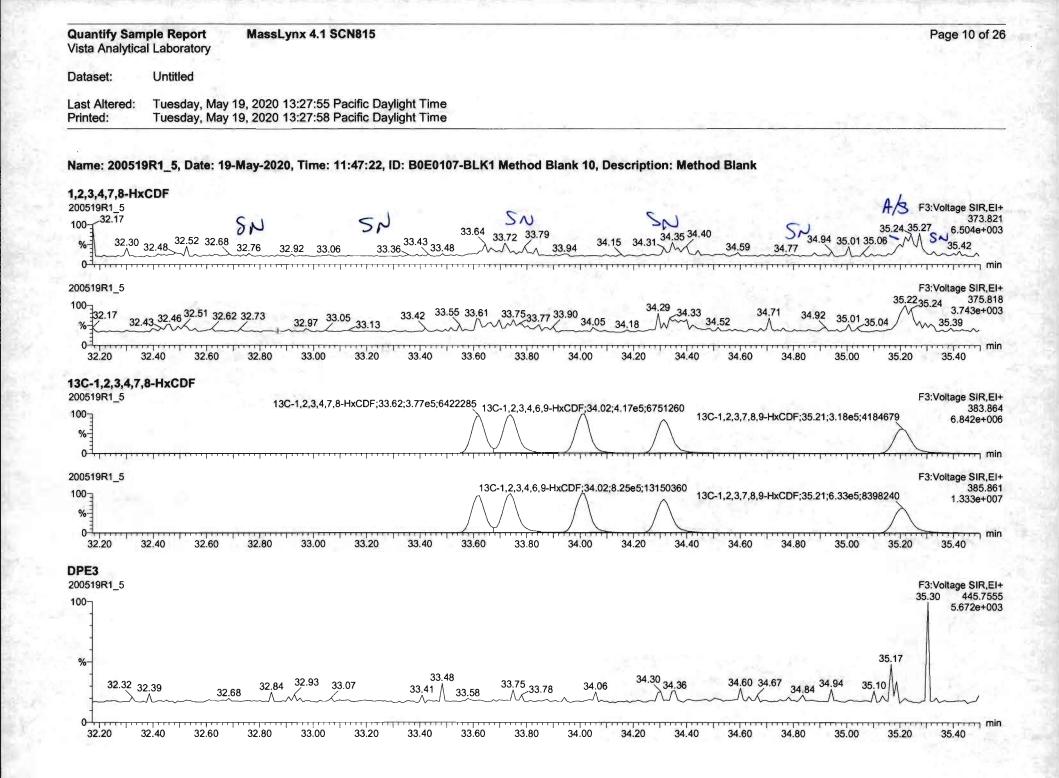


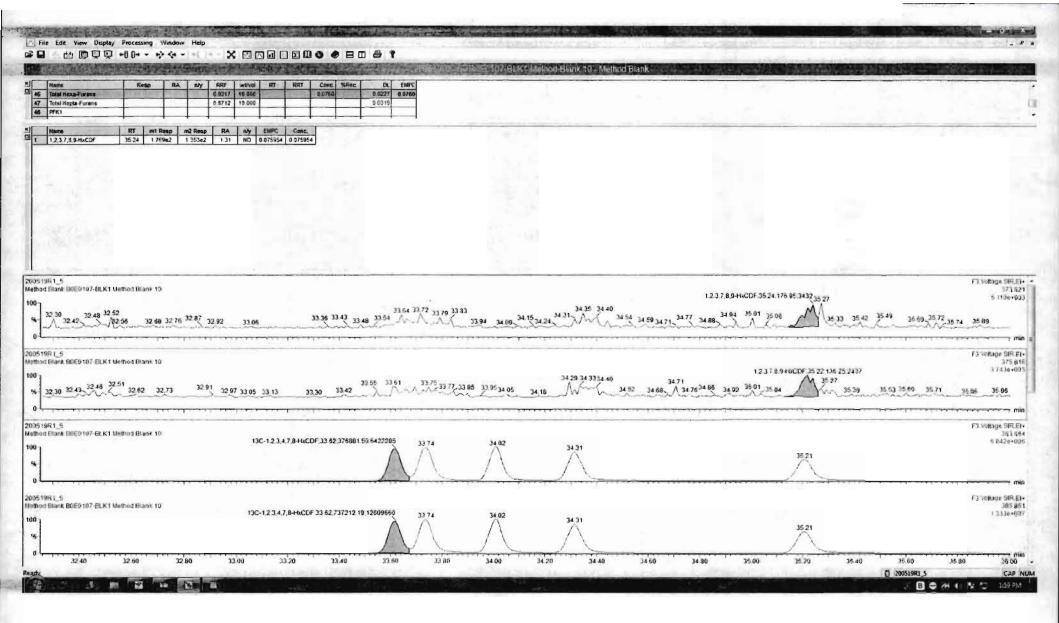


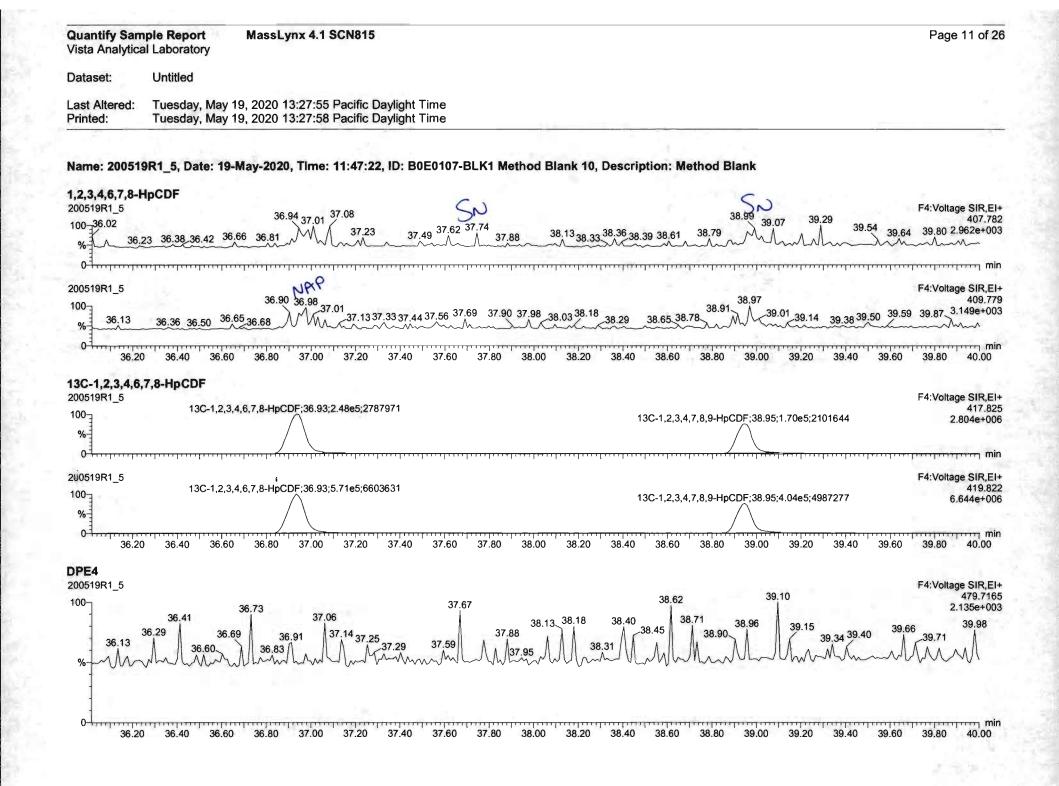
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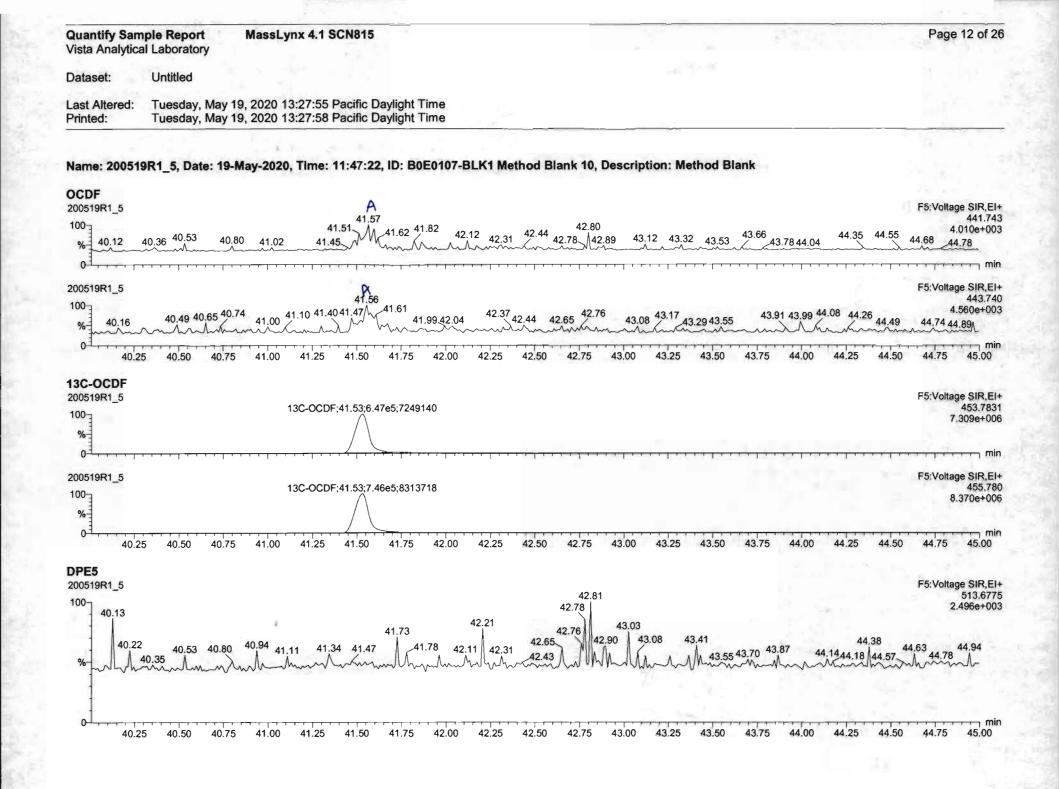


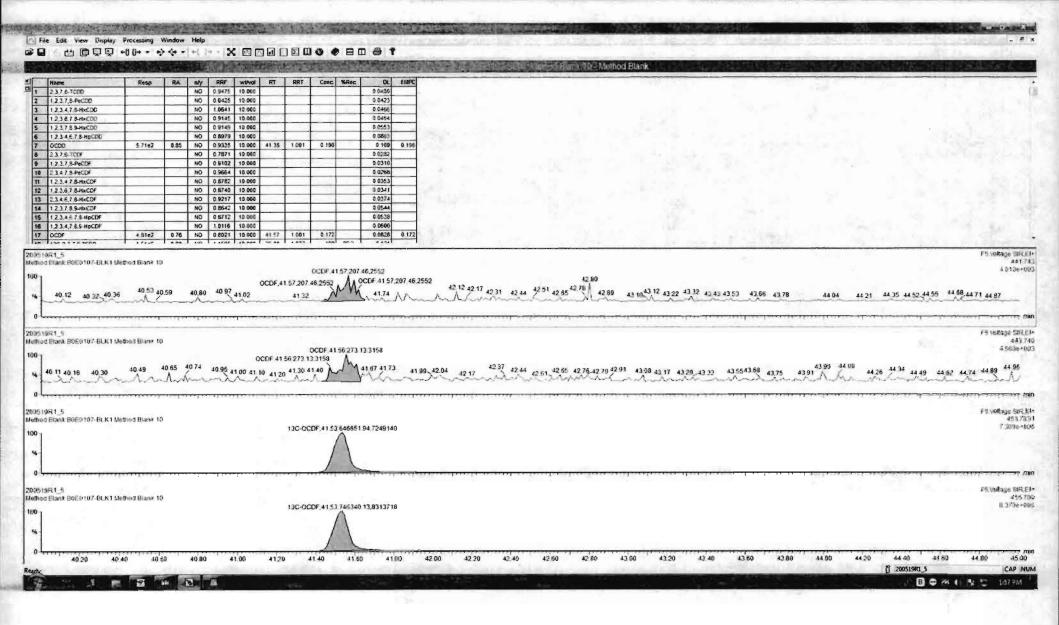
Page 46 of 694











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28.00 FK3	28.25 28.50	28.75 29			8		30.75	31.00	31.25	31.50	31.75	F3:Voltage	SIR,E
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Dataset: U:\VG12.PRO\Results\200519R1\200519R1-2.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200519R1_2, Date: 19-May-2020, Time: 09:26:30, ID: B0E0107-BS1 OPR 10, Description: OPR

- 11-12-14-	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Сопс.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.03e5	0.76	NO	0.947	10.000 -	26.051	26.05	1.001	1.001	16.669		0.745	16.7
2	2 1,2,3,7,8-PeCDD	4.44e5	0.62	NO	0.942	10.000	31.147	31.14	1.001	1.000	85.483		0.112	85.5
3	3 1,2,3,4,7,8-HxCDD	3.74e5	1.23	NO	1.06	10.000	34.505	34.52	1.000	1.001	94.936		0.201	94.9
4	4 1,2,3,6,7,8-HxCDD	4.04e5	1.23	NO	0.915	10.000	34.601	34.61	1.000	1.000	90.964		0.205	91.0
5	5 1,2,3,7,8,9-HxCDD	3.53e5	1.25	NO	0.915	10.000	34.888	34.89	1.000	1.000	90.967		0.245	91.0
6	6 1,2,3,4,6,7,8-HpCDD	2.62e5	1.02	NO	0.898	10.000	38.394	38.39	1.000	1.000	94.315		0.254	94.3
7	7 OCDD	4.77e5	0.88	NO	0.933	10.000	41.354	41.36	1.000	1.000	189.23		0.331	189
8	8 2,3,7,8-TCDF	1.14e5	0.76	NO	0.787	10.000	25.102	25.11	1.001	1.001	18.091		0.125	18.1
9	9 1,2,3,7,8-PeCDF	6.34e5	1.57	NO	0.910	10.000	29.834	29.83	1.001	1.001	91.341		0.157	91.3
10	10 2,3,4,7,8-PeCDF	6.62e5	1.54	NO	0.966	10.000	30.850	30.83	1.001	1.001	91.434		0.144	91.4
11	11 1,2,3,4,7,8-HxCDF	4.41e5	1.21	NO	0.878	10.000	33.632	33.65	1.000	1.001	101.55		0.264	102
12	12 1,2,3,6,7,8-HxCDF	5.17e5	1.22	NO	0.874	10.000	33.770	33.77	1.000	1.000	100.89		0.255	101
13	13 2,3,4,6,7,8-HxCDF	4.73e5	1.20	NO	0.922	10.000	34.369	34.35	1.001	1.000	100.51		0.270	101
14	14 1,2,3,7,8,9-HxCDF	3.66e5	1.19	NO	0.864	10.000	35.230	35.24	1.000	1.000	102.14		0.403	102
15	15 1,2,3,4,6,7,8-HpCDF	3.16e5	1.00	NO	0.871	10.000	36.992	36.98	1.001	1.001	100.91		0.337	101
16	16 1,2,3,4,7,8,9-HpCDF	2.60e5	1.03	NO	1.01	10.000	38.957	38.98	1.000	1.001	103.16		0.398	103
17	17 OCDF	4.94e5	0.88	NO	0.802	10.000	41.535	41.56	1.000	1.001	192.31		0.381	192
18	18 13C-2,3,7,8-TCDD	1.31e6	0.77	NO	1.16	10.000	26.000	26.02	1.026	1.027	181.77	90.9	0.195	1
19	19 13C-1,2,3,7,8-PeCDD	1.10e6	0.62	NO	0.847	10.000	31.086	31.13	1.227	1.229	209.62	105	0.260	
20	20 13C-1,2,3,4,7,8-HxCDD	7.40e5	1.28	NO	0.750	10.000	34.506	34.49	1.014	1.014	176.40	88.2	0.437	
21	21 13C-1,2,3,6,7,8-HxCDD	9.71e5	1.26	NO	0.963	10.000	34.618	34.60	1.017	1.017	180.30	90.1	0.340	
22	22 13C-1,2,3,7,8,9-HxCDD	8.47e5	1.20	NO	0.838	10.000	34.887	34.88	1.025	1.025	180.85	90.4	0.391	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.19e5	1.07	NO	0.641	10.000	38.378	38.38	1.128	1.128	172.59	86.3	0.398	
24	24 13C-OCDD	1.08e6	0.85	NO	0.586	10.000	41.372	41.35	1.216	1.215	329.17	82.3	0.420	1
25	25 13C-2,3,7,8-TCDF	1.60e6	0.78	NO	1.03	10.000	25.060	25.08	0.989	0.990	176.32	88.2	0.395	
26	26 13C-1,2,3,7,8-PeCDF	1.53e6	1.57	NO	0.845	10.000	29.777	29.81	1.176	1.177	205.74	103	0.590	
27	27 13C-2,3,4,7,8-PeCDF	1.50e6	1.59	NO	0.814	10.000	30.767	30.82	1.215	1.217	209.80	105	0.613	
28	28 13C-1,2,3,4,7,8-HxCDF	9.89e5	0.51	NO	1.00	10.000	33.645	33.63	0.989	0.988	175.95	88.0	0.429	
29	29 13C-1,2,3,6,7,8-HxCDF	1.17e6	0.52	NO	1.14	10.000	33.767	33.76	0.992	0.992	184.51	92.3	0.380	
30	30 13C-2,3,4,6,7,8-HxCDF	1.02e6	0.52	NO	1.02	10.000	34.336	34.33	1.009	1.009	178.62	89.3	0.422	
31	31 13C-1,2,3,7,8,9-HxCDF	8.30e5	0.52	NO	0.845	10.000	35.227	35.23	1.035	1.035	175.57	87.8	0.511	

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 MassLynx 4.1 SCN815

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Name: 200519R1_2, Date: 19-May-2020, Time: 09:26:30, ID: B0E0107-BS1 OPR 10, Description: OPR

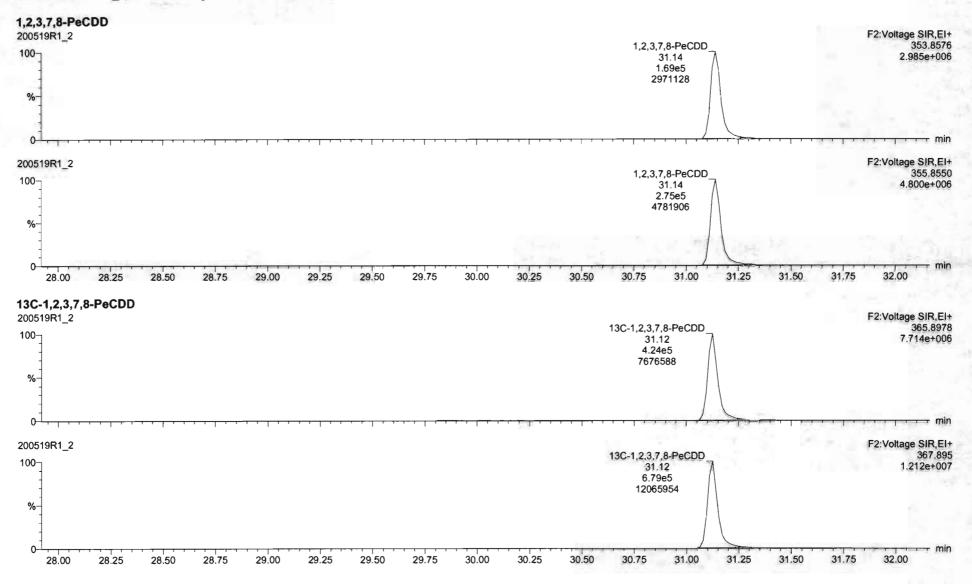
Constant and	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.19e5	0.43	NO	0.771	10.000	36.959	36.96	1.086	1.086	166.73	83.4	0.384	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.99e5	0.45	NO	0.482	10.000	38.970	38.96	1.145	1.145	184.83	92.4	0.614	
34	34 13C-OCDF	1.28e6	0.93	NO	0.669	10.000	41.542	41.53	1.221	1.221	342.56	85.6	0.373	
35	35 37CI-2,3,7,8-TCDD	4.76e5			1.10	10.000	26.030	26.05	1.028	1.028	69.747	87.2	0.0493	
36	36 13C-1,2,3,4-TCDD	1.24e6	0.80	NO	1.00	10.000	25.350	25.33	1.000	1.000	200.00	100	0.226	
37	37 13C-1,2,3,4-TCDF	1.75e6	0.78	NO	1.00	10.000	23.560	23.53	1.000	1.000	200.00	100	0.409	
38	38 13C-1,2,3,4,6,9-HxCDF	1.12e6	0.51	NO	1.00	10.000	34.000	34.03	1.000	1.000	200.00	100	0.431	

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lethod: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28 alibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr			
ame: 200519R1_2, Date: 19-May-2020, Time: 09:26:30, ID: B0E0107-B	S1 OPR 10, Description: OPR		
,3,7,8-TCDD 00519R1_2	2,3,7,8	-TCDD	F1:Voltage SIR,EI 319.896
00	26. 4.4:	.05	6.134e+00
%			
0 		╺╺╺╺╺	F1:Voltage SIR,EI
00-1 %-1	2.3,7,8 26 5.8 807	.05	321.86 8.125e+00
0 21.00 21.50 22.00 22.50 23.00 23.50 24	4.00 24.50 25.00 25.50	26.00 26.50 27.00	27.50 27.50
3C-2,3,7,8-TCDD 00519R1_2			F1:Voltage SIR,E
%	13C-1,2,3,4-TCDD 25.33 5.52e5 7476337	13C-2,3,7,8-TCDD 26.02 5.71e5 7942796	331.936 7.997e+00
00519R1_2			F1:Voltage SIR,E
00 %	13C-1,2,3,4-TCDD_ 25,33 6.90e5 9359162	13C-2,3,7,8-TCDD 26.02 7,37e5 10156412	333.90 1.021e+00

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ame: 20051	9R1_2, Date: 19-May-2020, Tim	ne: 09:26:30, ID: B0E0107-BS1	OPR 10, Description: OPR			
CI-2,3,7,8-1 0519R1_2	TCDD					F1:Voltage SIR,E
007				37CI-2,3,7,8-TCDD_ 26.05	7	327.88 6.475e+00
				4.76e5		0.4758+00
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00_			13C-1,2,3,4-TCDD 25.33	7 1	_13C-2,3,7,8-TCDD 26.02	7.997e+00
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0++++++++++++++++++++++++++++++++++++++	•••••••••••••••••••••••••••••••••••••••		13C-1,2,3,4-TCDD		_13C-2,3,7,8-TCDD 26.02	333.93 1.021e+00
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0 0 1 0 1 0 1 0 1 0 1 0 1 2	·····		13C-1,2,3,4-TCDD 25.33 6.90e5 9359162	7 /	26.02	333.9 1.021e+00
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			25.33 6.90e5	λ /	26.02 7.37e5	F1:Voltage SIR,E 333.9: 1.021e+00

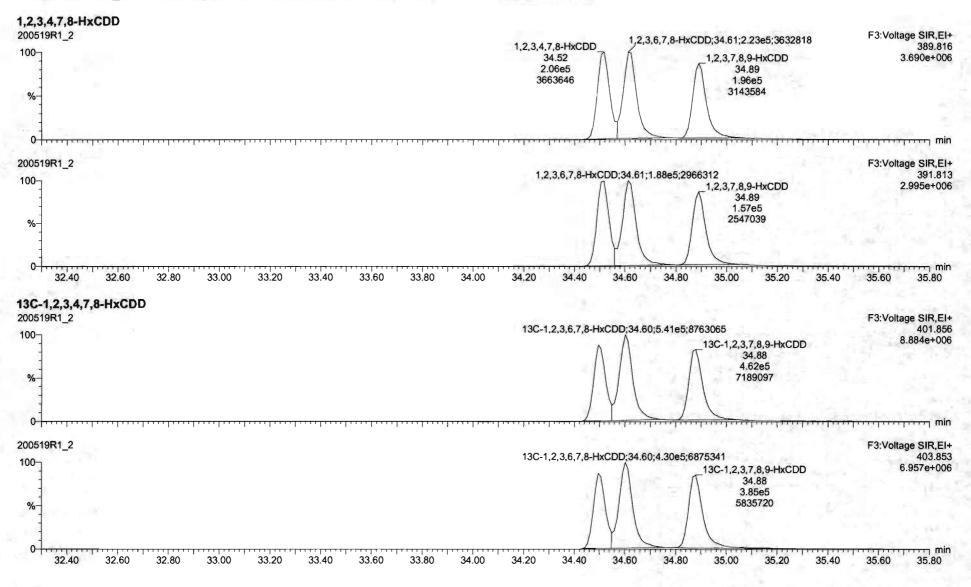
Quantify Sam Vista Analytica		Page 3 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, May 19, 2020 13:25:18 Pacific Daylight Time Tuesday, May 19, 2020 13:27:43 Pacific Daylight Time	

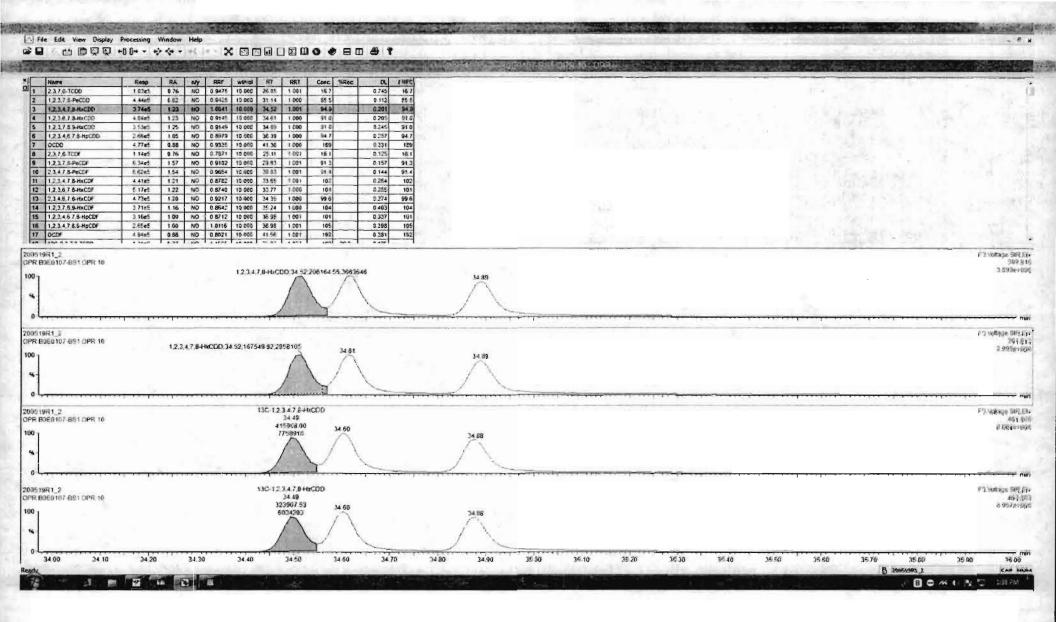
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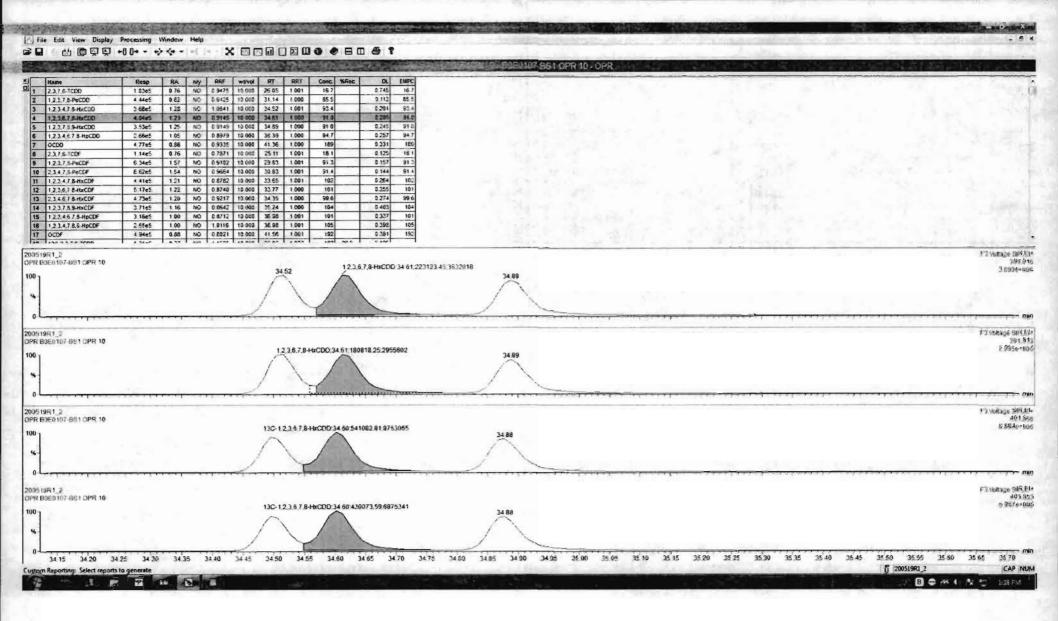


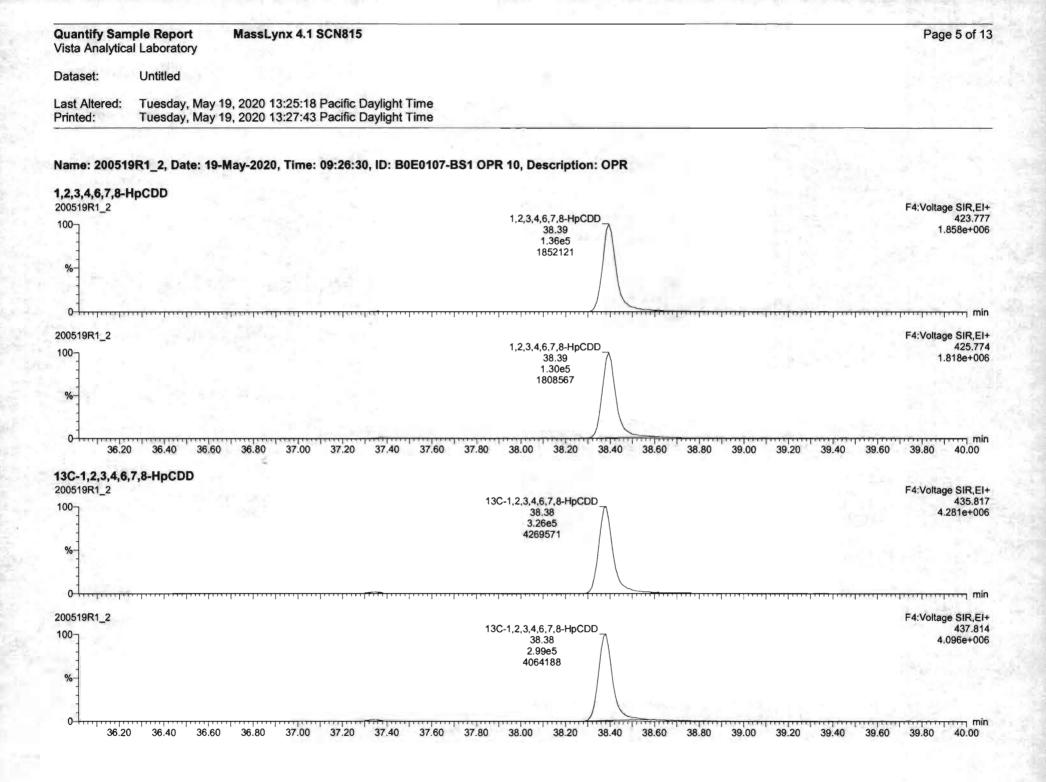
Quantify Sam Vista Analytica		Page 4 of 13
Dataset:	Untitled	
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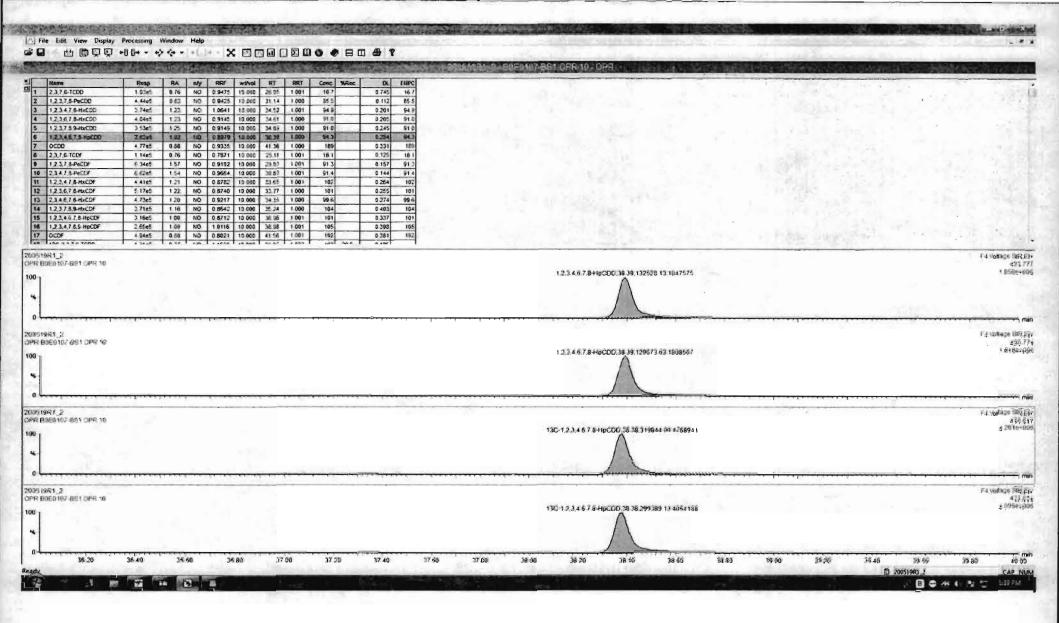
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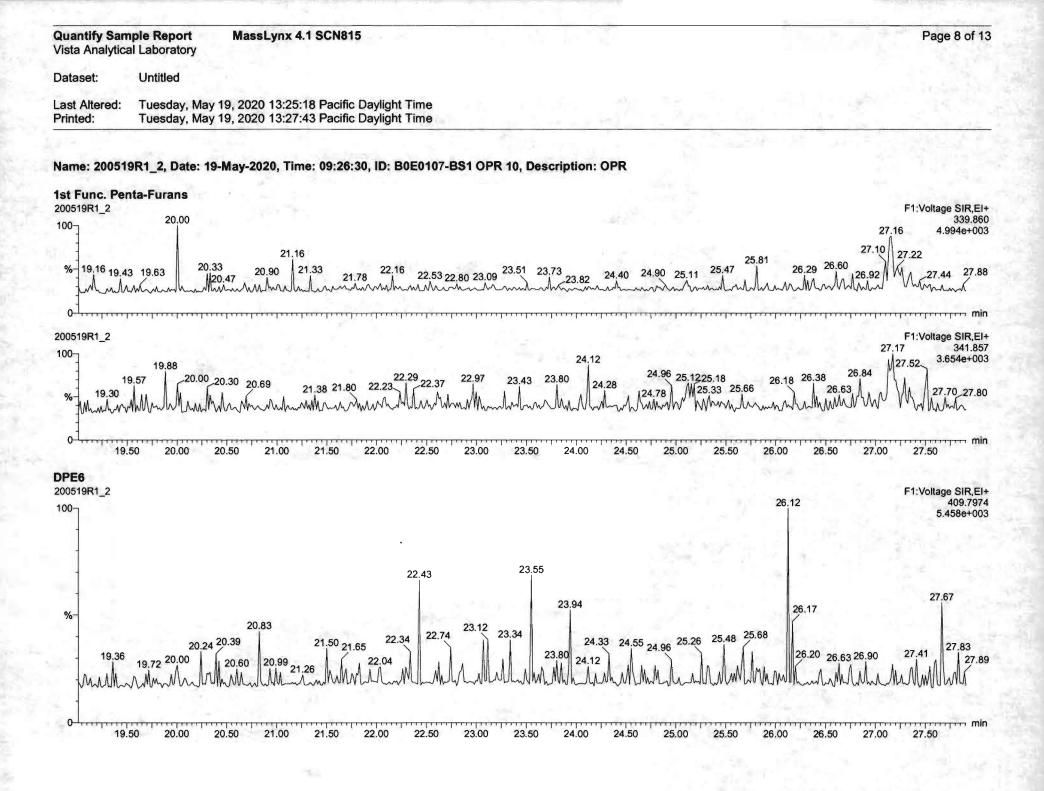




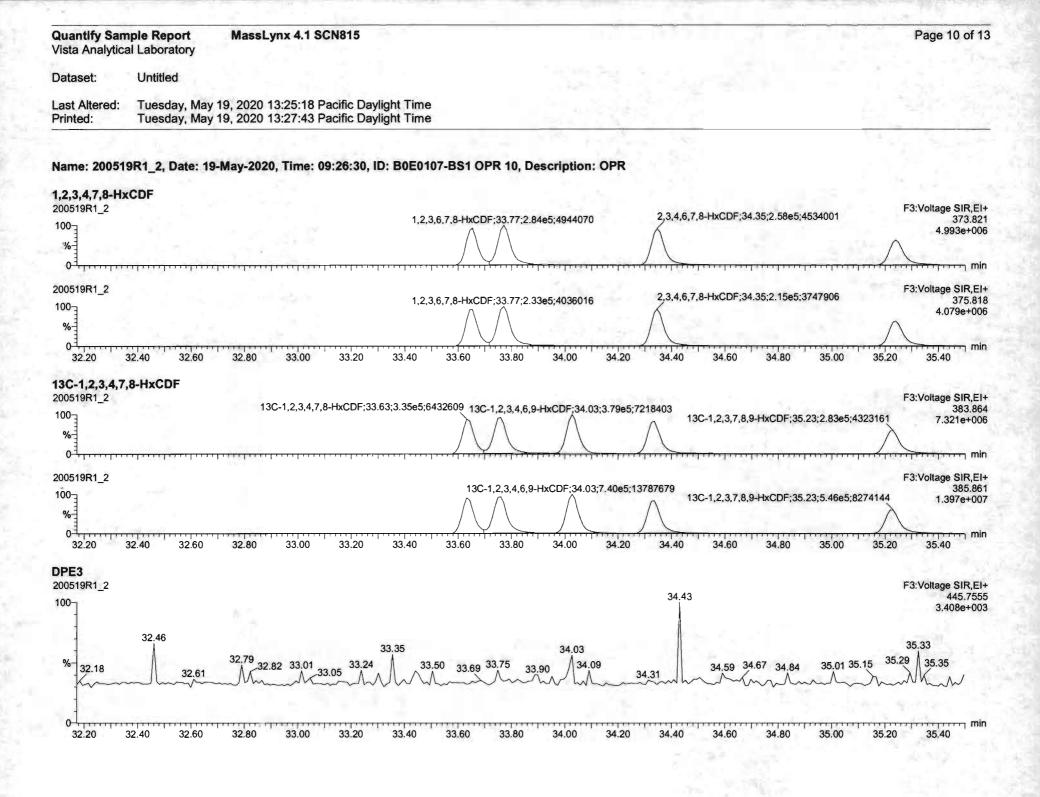


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ame: 20051981 2 Date: 19-May-2020 Tin	ne: 09:26:30, ID: B0E0107-BS1 OPR 10, Desc	rinflon: OPR	
CDD			
0519R1_2	OCDD 41.36 2.23e5		F5:Voltage SIR,E 457.7 3.129e+00
%	3122343		
0519R1_2 /0¬	OCDD 41.36 →		F5:Voltage SIR,E 459.7 3.545e+0
- 	2.54e5 3537542		3.0400+0
0			
40.20 40.40 40.60 40.80 41.	.00 41.20 41.40 41.60 41.80 42.00 4	42.20 42.40 42.60 42.80 43.00 4	3.20 43.40 43.60 43.80 44.00
C-OCDD 0519R1_2			F5:Voltage SIR,E
	13C-OCDD		469.7 6.913e+0
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	13C-OCDD		471.7 7.894e+0
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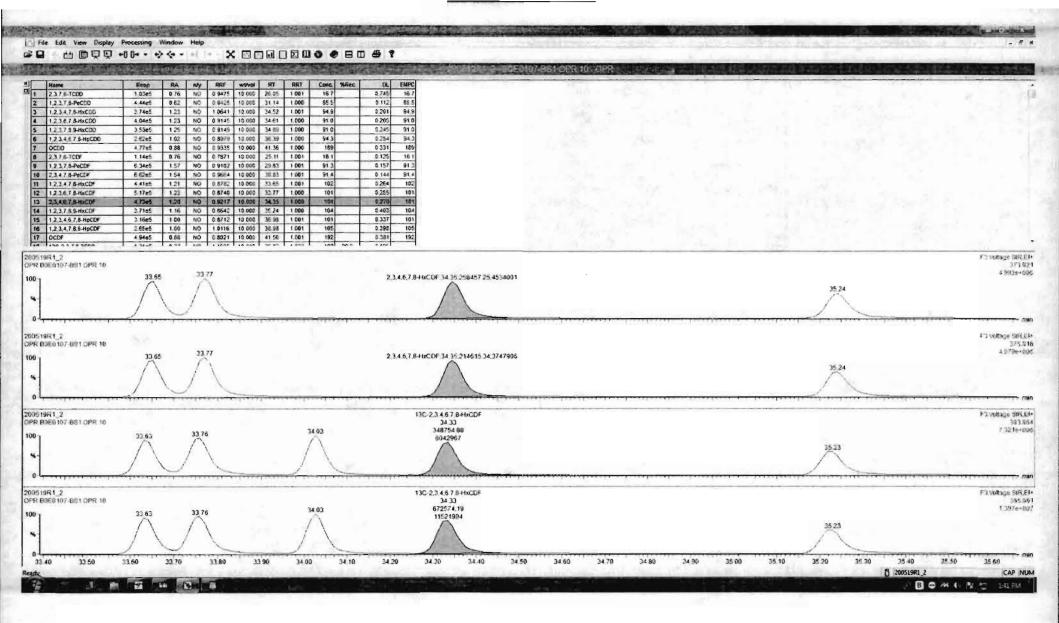
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ataset:	Untitled													
ast Altered: rinted:			5:18 Pacific Dayligl 7:43 Pacific Dayligl											
ame: 20051	9R1_2, Date: 1	9-May-2020, Ti	me: 09:26:30, ID:	B0E0107-I	BS1 OPR 1	0, Descript	tion: OPR							
3,7,8-TCDF														F1:Voltage SIR,
00 %								3,7,8-TCDF 25.11 4.91e4 638420	Λ					303.90 6.444e+(
0 ⁻¹		***[****		, , , , , , , , , , , , , , , , , , , ,								<u></u>	. Tra china an a	
00519R1_2 00⊣							2,3	3,7,8-TCDF	λ					F1:Voltage SIR,I 305.8
%								25.11 6.48e4 848147	\bigwedge					8.583e+(
0 ¹		····					tree to the second	·····						
19.		20.50 21.00	21.50 22.00	22.50	23.00	23.50 24	4.00 24.5	50 25.0	JU 2:	5.50	26.00	26.50	27.00	27.50
	CDF													F1:Voltage SIR
00519R1_2	CDF			13	C-1,2,3,4-TC	DF		7,8-TCDF	λ					315.94
00519R1_2	CDF			13	23.53 7.71e5		25	5.08 99e5	Λ					315.94
00519R1_2	CDF	•••••	·····	13 	23.53		25	5.08	1					315.9 8.672e+0
3C-2,3,7,8-T 00519R1_2 00 % 0 00519R1_2	CDF			• • • • • • • • • • • • • • • • • • • •	23.53 7.71e5 8481265		25 6.9 860	5.08 99e5 96713	<u> </u>					315.9 8.672e+(
00519R1_2 00 0 0 0 0 0 0 0 0 0 0 0 0	CDF	****		• • • • • • • • • • • • • • • • • • • •	23.53 7.71e5 8481265 C-1,2,3,4-TC 23.53		25 6.9 860 	5.08 99e5 96713 ,7,8-TCDF_ 5.08	Λ					315.9 8.672e+(
00519R1_2 00 0 0 0 0 0 0 0 0 0 0 0 0	CDF	••••		• • • • • • • • • • • • • • • • • • • •	23.53 7.71e5 8481265 		25 6.9 860 	5.08 99e5 96713 ,7,8-TCDF_	<u>\</u>					315.94 8.672e+(
00519R1_2 % 0	,,	20.50 21.00	21.50 22.00	• • • • • • • • • • • • • • • • • • • •	23.53 7.71e5 8481265 C-1,2,3,4-TC 23.53 9.83e5		25 6.9 860 	5.08 99e5 16713 .7,8-TCDF_ 5.08 01e5 49630	 10 22			,,		315.94 8.672e+(
00519R1_2 00 00 00 00519R1_2 00 00 00 00 00 19.	,,	20.50 21.00	21.50 22.00		23.53 7.71e5 8481265 C-1.2,3,4-TC 23.53 9.83e5 10775794		25 6.9 860 13C-2,3, 25 9.0 113	5.08 99e5 16713 .7,8-TCDF_ 5.08 01e5 49630	00 23			,, ,, 26.50		315.94 8.672e+(
00519R1_2 00 00 00519R1_2 00 00 00 01 01 19. PE1	,,				23.53 7.71e5 8481265 C-1.2,3,4-TC 23.53 9.83e5 10775794		25 6.9 860 13C-2,3, 25 9.0 113	5.08 99e5 16713 .7,8-TCDF_ 5.08 01e5 49630	0 24			,,	 	315.9 8.672e+(
00519R1_2 00 00 00519R1_2 00 00 00 00 00 19. PE1 00519R1_2	,,	20.50 21.00 20.86			23.53 7.71e5 8481265 C-1.2,3,4-TC 23.53 9.83e5 10775794		25 6.9 860 13C-2,3, 25 9.0 113	5.08 99e5 16713 .7,8-TCDF_ 5.08 01e5 49630	00 25			,, , 26.50		315.94 8.672e+(F1:Voltage SIR, 317.9 1.145e+(77.50 F1:Voltage SIR, 375.83
00519R1_2 00 00519R1_2 00 00 00 00 00 00 19. PE1 00519R1_2	,,				23.53 7.71e5 8481265 C-1.2,3,4-TC 23.53 9.83e5 10775794		25 6.9 860 13C-2,3, 25 9.0 113	5.08 99e5 16713 .7,8-TCDF_ 5.08 01e5 49630	0 24			,,	 	315.94 8.672e+(
00519R1_2 00 00 00 00 00 00 00 00 00 0	,,	20.86			23.53 7.71e5 8481265 C-1.2,3,4-TC 23.53 9.83e5 10775794		25 6.9 860 13C-2,3, 25 9.0 113	5.08 99e5 16713 .7,8-TCDF_ 5.08 01e5 49630	0 2:			,,		315.94 8.672e+(
00519R1_2 00 00519R1_2 00 00 00 00 00 00 19. PE1 00519R1_2	,,,,,, ,	20.86	3 21.35		23.53 7.71e5 8481265 C-1.2,3,4-TC 23.53 9.83e5 10775794	DF23.50 24	25 6.9 860 13C-2,3, 25 9,0 1134 4.00 24.5	5.08 99e5 96713 .7,8-TCDF_ 5.08 01e5 49630) 00 2:		25,91			F1:Voltage SIR, 375.83 5.068e+(
00519R1_2 00 00 00 00 00 00 00 00 00 0	.50 20.00	20.86	21.35		23.53 7.71e5 8481265 C-1.2,3,4-TC 23.53 9.83e5 10775794	DF23.50 24	25 6.9 860 13C-2,3, 25 9,0 1134 4.00 24.5	5.08 99e5 16713 .7,8-TCDF_ 5.08 01e5 49630			25.91		26,89 27	315.94 8.672e+(
00519R1_2 00 00 00 00 00 00 00 00 00 0	.50 20.00	20.86	3 21.35		23.53 7.71e5 8481265 C-1.2,3,4-TC 23.53 9.83e5 10775794 23.00	DF23.50 24	25 6.9 860 13C-2,3, 25 9.0 1134 4.00 24.5	5.08 99e5 96713 .7,8-TCDF_ 5.08 01e5 49630 		2	25.91)		315.94 8.672e+(

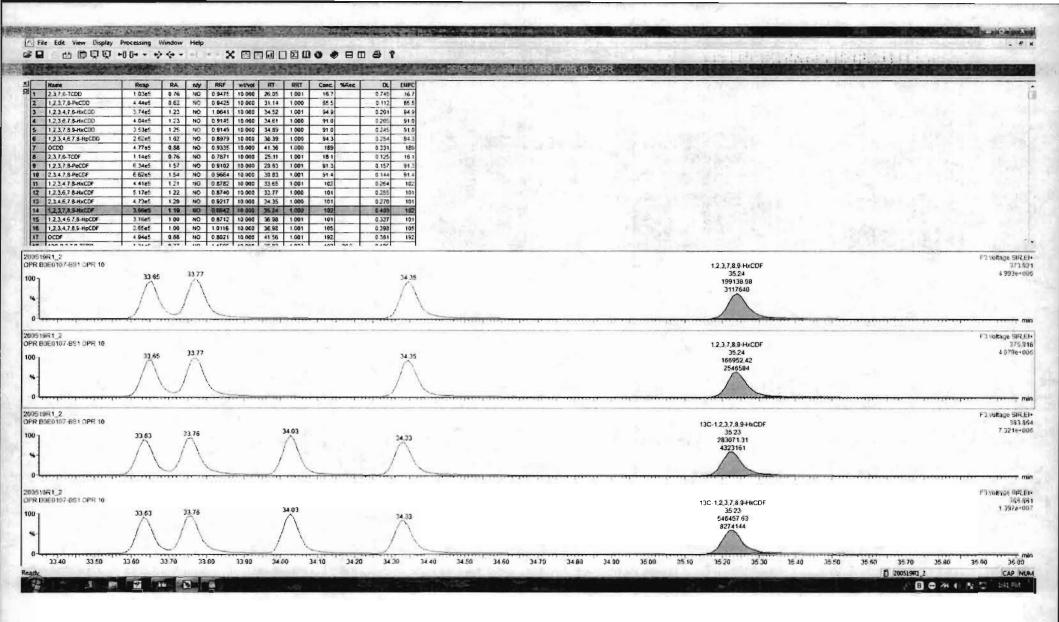


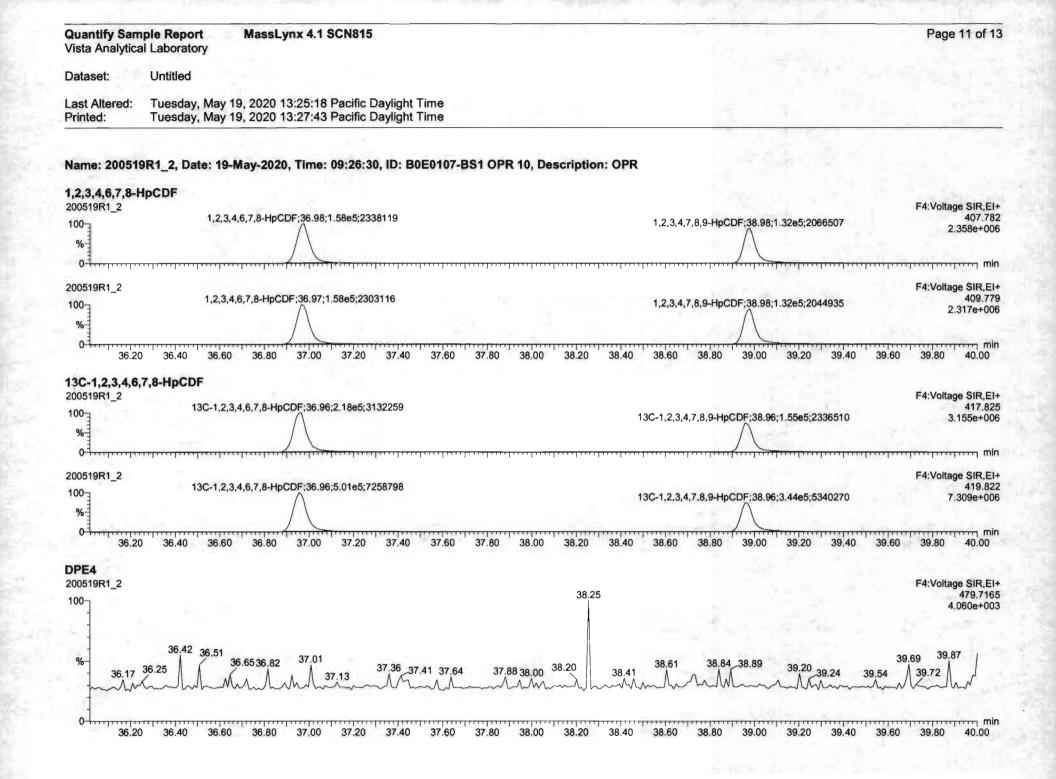
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,2,3,7,8-PeC	DF							
00519R1_2			1,2,3,7,8-PeCDF;2	29.83;3.87e5;6430612	ſ	2,3,4,7,8-PeCDF 30.83 4.01e5 6880988		F2:Voltage SIR,E 339.8 6.916e+0
0-1					·····			r
00519R1_2			1,2,3,7,8-PeCDF;2	29.83;2.47e5;4117585	2,3,4,7,8-PeCDF 30.82 2.61e5			F2:Voltage SIR,E 341.8 4.503e+0
28.00	28.25 28.50	28.75 29.00 29			4482762			
00519R1_2	-PeCDF	28.75 29.00 29	9.25 29.50 29.7		30.50 30.75	31.00 31.25	31.50 31.75	F2:Voltage SIR,
00519R1_2	-PeCDF	20110 20100 20		5 30.00 30.25 ;29.81;9.32e5;15516080		31.00 31.25	31.50 31.75	F2:Voltage SIR, 351.: 1.614e+(
00519R1_2	-PeCDF	·····			13C-2,3,4,7,8-PeCDF 30.82 9.19e5	31.00 31.25	31.50 31.75	F2:Voltage SIR,I 351.§ 1.614e+(
00519R1_2 % 0 0 0 0 0 5 19R1_2	-PeCDF		13C-1,2,3,7,8-PeCDF		13C-2,3,4,7,8-PeCDF 30.82 9.19e5	_13C-2,3,4,7,8-PeCDF 30.82 5.80e5 9888941	31.50 31.75	F2:Voltage SIR, I 351.9 1.614e+0
00519R1_2 00 0 0 0 0 0 0 0 0 0 0 0 0	28.25 28.50		13C-1,2,3,7,8-PeCDF	;29.81;9.32e5;15516080	13C-2,3,4,7,8-PeCDF 30.82 9.19e5	_13C-2,3,4,7,8-PeCDF 30.82 5.80e5	31.50 31.75	F2:Voltage SIR, 351.9 1.614е+С л F2:Voltage SIR, 353.8 9.960е+С
000519R1_2 00 00 00 00 00 00 00 00 28.00 0 0 0 0 0 0 0 0 0 0 0 0	· · · · · · · · · · · · · · · · · · ·		13C-1,2,3,7,8-PeCDF	;29.81;9.32e5;15516080	13C-2,3,4,7,8-PeCDF 30.82 9,19e5 16028659	_13C-2,3,4,7,8-PeCDF 30.82 5.80e5 9888941		F2:Voltage SIR,t 351.9 1.614е+0 л F2:Voltage SIR,t 353.8 9.960е+0 п 32.00
000519R1_2 000519R1_2 100 000519R1_2 100 00 28.00 0 0 0 0 0 0 0 0 0 0 0 0	· · · · · · · · · · · · · · · · · · ·		13C-1,2,3,7,8-PeCDF	;29.81;9.32e5;15516080	13C-2,3,4,7,8-PeCDF 30.82 9,19e5 16028659	_13C-2,3,4,7,8-PeCDF 30.82 5.80e5 9888941		F2:Voltage SIR,E 351.9 1.614e+0 п F2:Voltage SIR,E 353.8 9.960e+0
000519R1_2 00 00 00 00 00 00 00 00 00 28.00 0 0 0 0 0 28.00 0 0 0 0 0 0 0 0 0 0 0 0	· · · · · · · · · · · · · · · · · · ·		13C-1,2,3,7,8-PeCDF	;29.81;9.32e5;15516080	13C-2,3,4,7,8-PeCDF 30.82 9.19e5 16028659	_13C-2,3,4,7,8-PeCDF 30.82 5.80e5 9888941	, , , , , , , , , , , , , , , , , , ,	F2:Voltage SIR,E 351.9 1.614е+0
0 200519R1_2 100- % 0 0 0 0 0	· · · · · · · · · · · · · · · · · · ·		13C-1,2,3,7,8-PeCDF	;29.81;9.32e5;15516080	13C-2,3,4,7,8-PeCDF 30.82 9.19e5 16028659 30.50 30.75	_13C-2,3,4,7,8-PeCDF 30.82 5.80e5 9888941	31.50 31.75 31.41 31.41 31.67 31.46	F2:Voltage SIR,t 351.9 1.614e+0 F2:Voltage SIR,t 9.960e+0 32.00 F2:Voltage SIR,t 409.79 5.158e+0

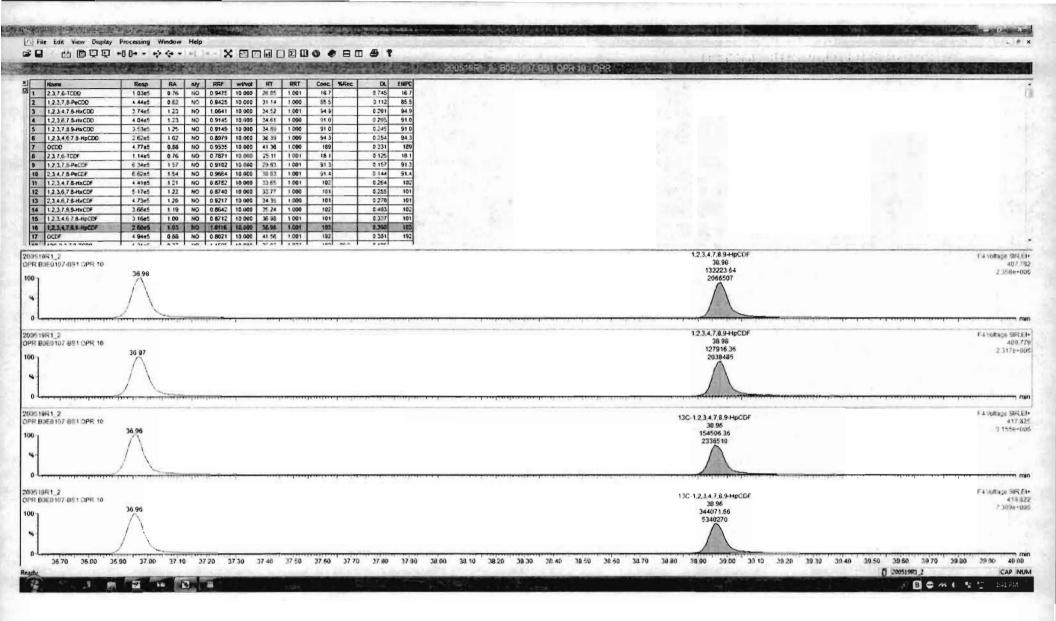


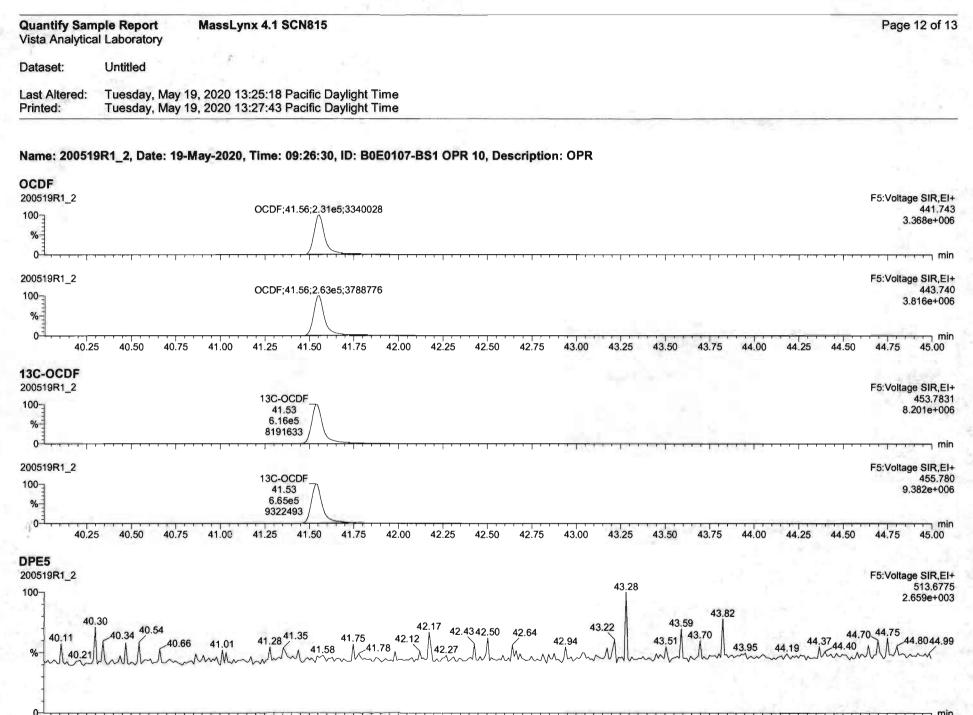
Page 67 of 694











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

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K1		
0519R1_2	20.60;8.70e3;168123 21.16;5.83e3;127231 21.84 22.22 23.34;1.81e3;120938 24.10;4.07e3;152723 25.68;3.19e3;136460 26.32;2.45e3;124010	F1:Voltage SIR, 27.53 316.9
1		2.832e+
6		
יייין יייי ^ר (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
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K2 519R1_2		F2:Voltage SIR,
	28.79; 3.67e4; 536052 29.08 29.22 29.55 29.78; 2.17e4; 196051 30.24; 1.89e3; 123957 30.47 30.79 30.82 30.91 31.29 31.51; 2.59e4; 198834	31.86 366.9
27.98		2.19467
1		
-		
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	
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	
28.00 K3		5 32.00
28.00 (3 519R1_2	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 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019	5 32.00 F3:Voltage SIR 380.9
28.00 K3 519R1_2	35 38:1 02e7:1295019 35 38:1 02e7:1295019 35 38:1 02e7:1295019	5 32.00 F3:Voltage SIR 380.9
28.00 K3 519R1_2 32.26	35 38:1 02e7:1295019 35 38:1 02e7:1295019 35 38:1 02e7:1295019	5 32.00 F3:Voltage SIR 380.9 1.140e+
28.00 K3 519R1_2 32.26	35 38:1 02e7:1295019 35 38:1 02e7:1295019 35 38:1 02e7:1295019	5 32.00 F3:Voltage SIR 380.9 1.140e+
28.00 K3 519R1_2 32.26 32.20 32	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019	5 32.00 F3:Voltage SIR 380.9 1.140e+
28.00 (3 519R1_2 32.26 32.20 32 (4	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 2.40 32.60 32.80 33.00 33.20 33.40 33.60 33.80 34.00 34.40 34.60 34.80 35.00 35.20 35.40 35.60	F3:Voltage SIR, 380.9 1,140e+ 35.80 36.0 F4:Voltage SIR,
28.00 K3 519R1_2 32.26 32.20 32.20 32.20 K4 519R1_2	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 2.40 32.60 32.80 33.00 33.20 33.40 33.60 33.80 34.00 34.40 34.60 34.80 35.00 35.20 35.40 35.60	5 32.00 F3:Voltage SIR, 380.9 1.140e+ 35.80 36.0 F4:Voltage SIR, 9.78.39.81 430.9
28.00 K3 519R1_2 32.26 32.20 32.20 32 K4 519R1_2	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 2.40 32.60 32.80 33.00 33.20 33.40 33.60 33.80 34.00 34.40 34.60 34.80 35.00 35.20 35.40 35.60	5 32.00 F3:Voltage SIR 380.9 T.140e+ 35.80 36.0 F4:Voltage SIR 9.78.39.81 430.9
28.00 K3 519R1_2 32.26 32.20 32.20 K4 519R1_2	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 2.40 32.60 32.80 33.00 33.20 33.40 33.60 33.80 34.00 34.40 34.60 34.80 35.00 35.20 35.40 35.60 38.34;4.84e6;827396 38.81 39.03 39.19 39.45 3	5 32.00 F3:Voltage SIR 380.9 1.140e+ 35.80 36.0 F4:Voltage SIR 9.78.39.81 430.9 8.416e+
28.00 K3 1519R1_2 32.26 32.20 32.20 K4 1519R1_2 K4	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 2.40 32.60 32.80 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 38.34;4.84e6;827396 38.81 39.03 39.19 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 30.45 30.45 30.45<	5 32.00 F3:Voltage SIR, 380.9 1,140e+ 35.80 36.0 F4:Voltage SIR, 9.78.39.81 430.9 8.416e+
28.00 K3 1519R1_2 32.26 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 32.20 33.20 36.20 36.20 36.20	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 2.40 32.60 32.80 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 38.34;4.84e6;827396 38.81 39.03 39.19 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45	5 32.00 F3:Voltage SIR, 380.9 1,140e+ 35.80 36.0 F4:Voltage SIR, 9.78.39.81 430.9 8.416e+
28.00 K3 1519R1_2 32.26 32.26 32.20 32.20 32.20 519R1_2 519R1_2 519R1_2 519R1_2 K5	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 2.40 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 38.34;4.84e6;827396 38.40 38.60 39.03 39.19 39.45 3 0 36.40 36.60 36.80 37.00 37.40 37.60 37.80 38.00 38.20 38.40 38.60 39.00 39.20 39.40 39.60 0 36.40 36.60 36.80 37.00 37.20 37.40 37.80 38.00 38.20 38.40 38.60 39.00 39.20 39.40 39.60	5 32.00 F3:Voltage SIR, 380.9 1.140e+ 35.80 36.0 F4:Voltage SIR, 9.78.39.81 430.9 8.416e+ 39.80 40.0
K3 1519R1_2 32.26 32.20 32 K4 1519R1_2	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 2.40 32.60 32.80 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 38.34;4.84e6;827396 38.81 39.03 39.19 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45 39.45	5 32.00 F3:Voltage SIR, 380.9 1.140e+ 35.80 36.0 F4:Voltage SIR, 9.78.39.81 430.9 8.416e+ 39.80 40.0 F5:Voltage SIR, 44.69 454.9
28.00 K3 519R1_2 32.20 32.20 32.20 32.20 519R1_2 519R1_2 K5 519R1_2	35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 35.38;1.02e7;1295019 2.40 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 38.34;4.84e6;827396 38.34;4.84e6;827396 38.34;4.84e6;827396 38.34;4.84e6;827396 38.34;4.84e6;827396 38.81 39.03 39.19 39.45 3 0 36.40 36.60 36.80 37.00 37.20 37.40 37.60 37.80 38.00 38.20 38.40 38.60 39.00 39.20 39.40 39.60 42.18;4.15e6;1933662 42.48;4.15e6;1933662 42.48;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.15e6;148;4.	5 32.00 F3:Voltage SIR 380.9 1.140e+ 35.80 36.0 F4:Voltage SIR 9.78.39.81 430.9 8.416e+ 39.80 40.0 F5:Voltage SIR 451.0

•	n ple Summary Report al Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\2	00607R1\200607R1-3.qld	
Last Altered: Printed:		0:15:52 Pacific Daylight Time 7:09:27 Pacific Daylight Time	ely 06-08-2020

01 06/09/2020

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

Name: 200607R1_3, Date: 07-Jun-2020, Time: 10:15:40, ID: 2001005-01 PDI-164SC-A-00-01-200426 10.86, Description: PDI-164SC-A-00-01-200426

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
(internet and internet)	1 2,3,7,8-TCDD	Contraction Cont		NO	0.888	10.023 🖌	26.501		1.001				0.0716	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.023	31.457		1.001				0.120	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.023	34.814		1.000				0.123	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.023	34.910		1.000				0.121	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.023	35.199		1.000				0.157	
6	6 1,2,3,4,6,7,8-HpCDD	1.79e3	1.11	NO	0.864	10.023	38.735	38.73	1.000	1.000	1.6091		0.328	1.61
7	7 OCDD	1.66e4	0.85	NO	0.914	10.023	41.716	41.74	1.000	1.000	17.396		0.393	17.4
8	8 2,3,7,8-TCDF			NO	0.751	10.023	25.596		1.001				0.0451	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.023	30.175		1.001				0.0741	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.023	31.161		1.001				0.0660	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.023	33.931		1.000				0.0789	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.023	34.058		1.000				0.0729	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.023	34.669		1.001				0.0827	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.023	35.549		1.000				0.132	
15	15 1,2,3,4,6,7,8-HpCDF	4.95e2	1.07	NO	0.873	10.023	37.355	37.36	1.001	1.001	0.36053		0.110	0.361
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.023	39.277		1.000				0.126	
Contraction of the	17 OCDF	3.82e2	1.29	YES	0.806	10.023	41.919	41.93	1.000	1.000	0.39870		0.180	0.327
18 18	18 13C-2,3,7,8-TCDD	7.81e5	0.77	NO	1.16	10.023	26.491	26.47	1.026	1.026	186.71	93.6	0.268	
19	19 13C-1,2,3,7,8-PeCDD	5.57e5	0.65	NO	0.849	10.023	31.674	31.43	1.227	1.218	181.44	90.9	0.452	
20	20 13C-1,2,3,4,7,8-HxCDD	3.38e5	1.28	NO	0.779	10.023	34.809	34.80	1.014	1.014	155.54	77. 9	0.952	
21	21 13C-1,2,3,6,7,8-HxCDD	4.65e5	1.24	NO	1.02	10.023	34.922	34.91	1.017	1.017	164.09	82.2	0.729	
22	22 13C-1,2,3,7,8,9-HxCDD	3.83e5	1.25	NO	0.903	10.023	35.193	35.19	1.025	1.025	152.16	76.3	0.822	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.57e5	1.04	NO	0.689	10.023	38.715	38.72	1.128	1.128	133.59	66.9	0.618	
24	24 13C-OCDD	4.17e5	0.87	NO	0.652	10.023	41.736	41.72	1.216	1.215	229.13	57.4	0.611	
25	25 13C-2,3,7,8-TCDF	1.03e6	0.76	NO	1.06	10.023	25.534	25.57	0.989	0.991	182.30	91.4	0.422	
26	26 13C-1,2,3,7,8-PeCDF	8.46e5	1.58	NO	0.838	10.023	30.058	30.15	1.165	1.168	188.93	94 .7	0.627	
27	27 13C-2,3,4,7,8-PeCDF	8.15e5	1.60	NO	0.817	10.023	31.011	31.13	1.202	1.206	186.67	93.5	0.643	
28	28 13C-1,2,3,4,7,8-HxCDF	4.53e5	0.50	NO	1.01	10.023	33.941	33.93	0.989	0.988	161.15	80.8	1.02	
29	29 13C-1,2,3,6,7,8-HxCDF	5.66e5	0.50	NO	1.17	10.023	34.064	34.05	0.992	0.992	173.91	87.2	0.877	
30	30 13C-2,3,4,6,7,8-HxCDF	4.81e5	0.54	NO	1.02	10.023	34.637	34.63	1.009	1.009	168.68	84.5	1.00	

Page 1 of 2

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

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-3.qld

Last Altered:	Monday, June 08, 2020 10:15:52 Pacific Daylight Time
Printed:	Monday, June 08, 2020 17:09:27 Pacific Daylight Time

四日月初	# Name	Resp	RA	n/y	RRF	wt/vol	Pred,RT	RT-	Pred.RRT.	RRT	Conc.	%Rec	DL I	EMPG
31	31 13C-1,2,3,7,8,9-HxCDF	3.74e5	0.52	NO	0.860	10.023	35.537	35.55	1.035	1.036	155.87	78.1	1.19	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.14e5	0.43	NO	0.774	10.023	37.284	37.32	1.086	1.087	145.19	72.8	0.828	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.08e5	0.43	NO	0.521	10.023	39.312	39.28	1.145	1.144	143.02	71.7	1.23	
34	34 13C-OCDF	4.76e5	0.85	NO	0.746	10.023	41.907	41.92	1.221	1.221	228.96	57.4	0.549	
35	35 37CI-2,3,7,8-TCDD	3.15e5			1.04	10.023	26.522	26.48	1.028	1.026	83.929	105	0.0656	
35 36	36 13C-1,2,3,4-TCDD	7.22e5	0.80	NO	1.00	10.023	25.890	25.81	1.000	1.000	199.54	100	0.310	
37	37 13C-1,2,3,4-TCDF	1.07e6	0.78	NO	1.00	10.023	24.360	24.12	1.000	1.000	199.54	100	0.447	
38.	38 13C-1,2,3,4,6,9-HxCDF	5.57e5	0.49	NO	1.00	10.023	34.420	34.33	1.000	1.000	199.54	100	1.02	
39	39 Total Tetra-Dioxins				0.888	10.023	24.620		0.000				0.0467	
40	40 Total Penta-Dioxins				0.908	10.023	29.960		0.000				0.0415	
41	41 Total Hexa-Dioxins				0.892	10.023	33.635		0.000		0.41034		0.138	1.03
42	42 Total Hepta-Dioxins				0.864	10.023	37.640		0.000		4.4357		0.328	4.44
43	43 Total Tetra-Furans				0.751	10.023	23.610		0.000				0.0173	
44	44 1st Func. Penta-Furans				0.893	10.023	27.580		0.000		0.15047		0.00992	0.150
45	45 Total Penta-Furans				0.893	10.023	29.275		0.000				0.0257	
46	46 Total Hexa-Furans				0.934	10.023	33.555		0.000		0.00000		0.0498	0.231
47	47 Total Hepta-Furans				0.873	10.023	37.835		0.000		0.82680		0.125	0.827

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-3.qld

Last Altered:	Monday, June 08, 2020 10:15:52 Pacific Daylight Time
Printed:	Monday, June 08, 2020 17:09:27 Pacific Daylight Time

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

Name: 200607R1_3, Date: 07-Jun-2020, Time: 10:15:40, ID: 2001005-01 PDI-164SC-A-00-01-200426 10.86, Description: PDI-164SC-A-00-01-200426

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

Alexand Maria	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	- Conc.	EMPC	DL
The Oat and Part	Total Hexa-Dioxins	33.32	1.445e4	9.363e3	7.534e2	4.931e2	1.53	YES	0.000e0	0.00000	0.62500	0.138
2	Total Hexa-Dioxins	34.12	8.566e3	5.047e3	3.901e2	3.356e2	1.16	NO	7.257e2	0.41034	0.41000	0.138

Hepta-Dioxins

Call State of the	Name	RT	m1 Height	m2 Height -	m1 Resp	m2 Resp	RA	n/ý	Resp	Conc.	EMPC	DL
Pitter / Stee	Total Hepta-Dioxins	37.73	2.115e4	1.749e4	1.580e3	1.563e3	1.01	NO	3.143e3	2.8265	2.8270	0.328
2 4 福 福	1,2,3,4,6,7,8-HpCDD	38.73	1.280e4	1.272e4	9.392e2	8.500e2	1.11	NO	1.789e3	1.6091	1.6090	0.328

Tetra-Furans

Name	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA n/y	Resp	Conc.	EMPC-	DL
Con 14 The									

Penta-Furans function 1

Time in a	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	- n/y	Resp	Conc.	EMPC	DL
Land	1st Func. Penta-Furans	27.56	4.961e3	3.081e3	3.486e2	2.103e2	1.66	NO	5.588e2	0.15047	0.15000	0.00992

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-3.qld

Last Altered:	Monday, June 08, 2020 10:15:52 Pacific Daylight Time
Printed:	Monday, June 08, 2020 17:09:27 Pacific Daylight Time

Name: 200607R1_3, Date: 07-Jun-2020, Time: 10:15:40, ID: 2001005-01 PDI-164SC-A-00-01-200426 10.86, Description: PDI-164SC-A-00-01-200426

Penta-Furans

Name	RT	m1 Height m2 Height	m1 Resp m2 Resp	RA n/y	Resp	Conc. EN	IPC DL
1.1250月10日							

Hexa-Furans

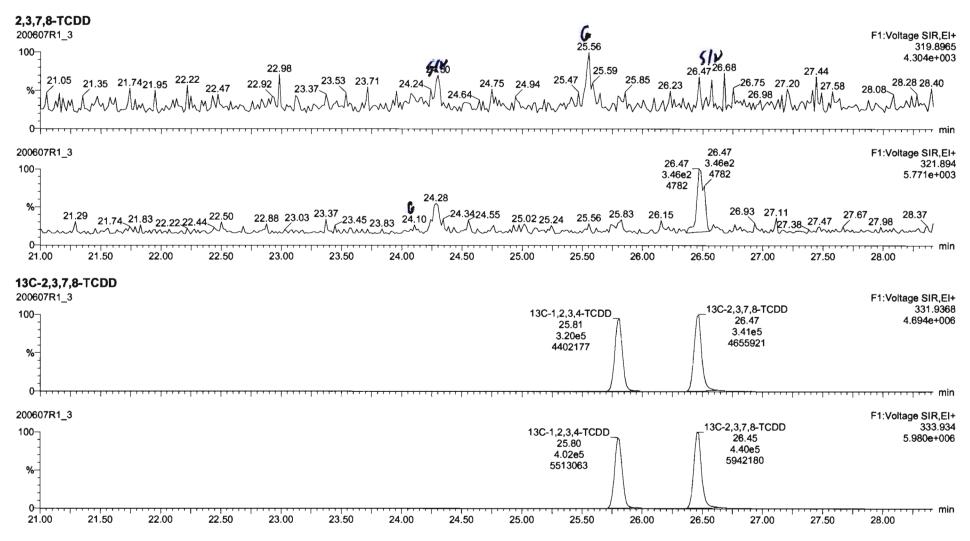
Re-Barren Mar	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 1 69 1 2 2	Total Hexa-Furans	32.93	2.528e3	3.099e3	1.167e2	1.118e2	1.04	YES	0.000e0	0.00000	0.096000	0.0498
2	Total Hexa-Furans	33.49	2.803e3	3.869e3	1.638e2	1.594e2	1.03	YES	0.000e0	0.00000	0.13500	0.0498

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp.	Conc.	EMPC	DL
1,2,3,4,6,7,8-	HpCDF 37.36	2.734e3	3.148e3	2.564e2	2.386e2	1.07	NO	4.950e2	0.36053	0.36100	0.110
2 Total Hepta-F	urans 37.95	3.360e3	3.402e3	2.774e2	2.548e2	1.09	NO	5.322e2	0.46627	0.46600	0.125

Quantify Sam Vista Analytica	,	Page 1 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 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

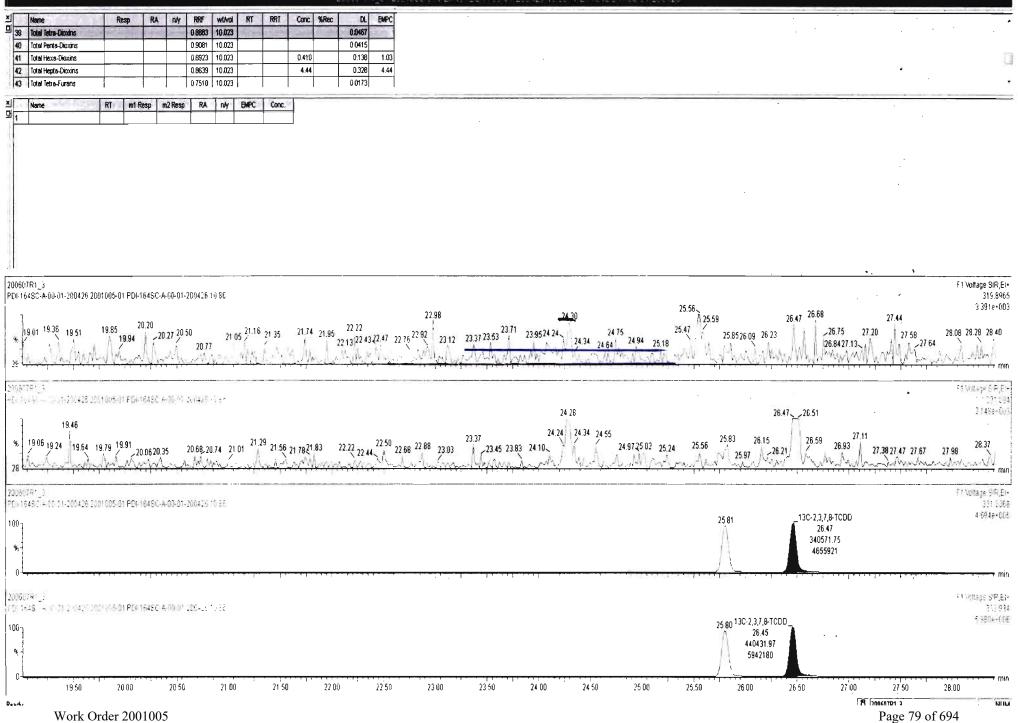


2	TangetLynx -	200607R1-3-	[Chromatogram]	119
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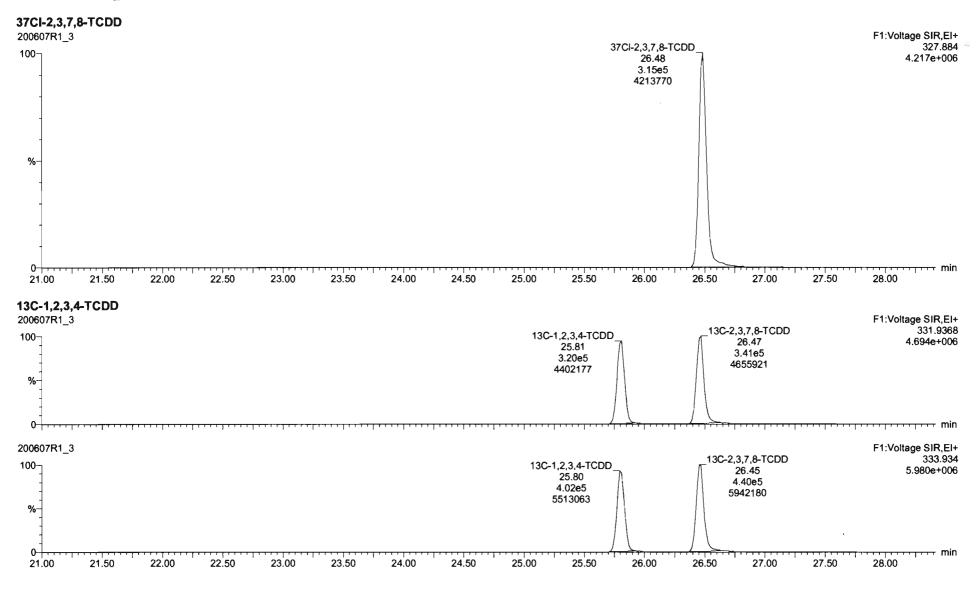
A File Edit View Display Processing Window Help

607F-1_2+2001005-01 PE/443C+A+00-03200426 10 36-4PE+0646C+A+00-01-200428 -

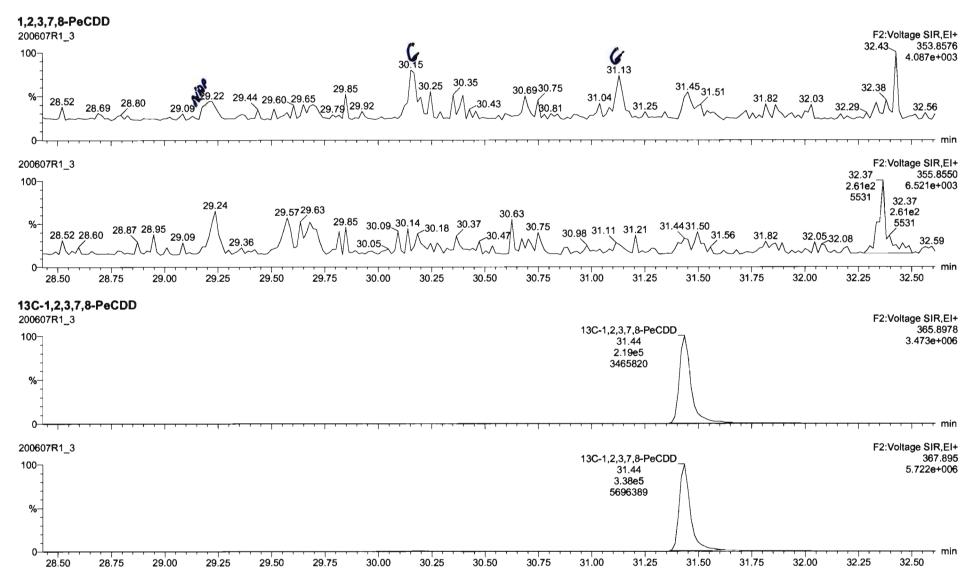
. 6 X

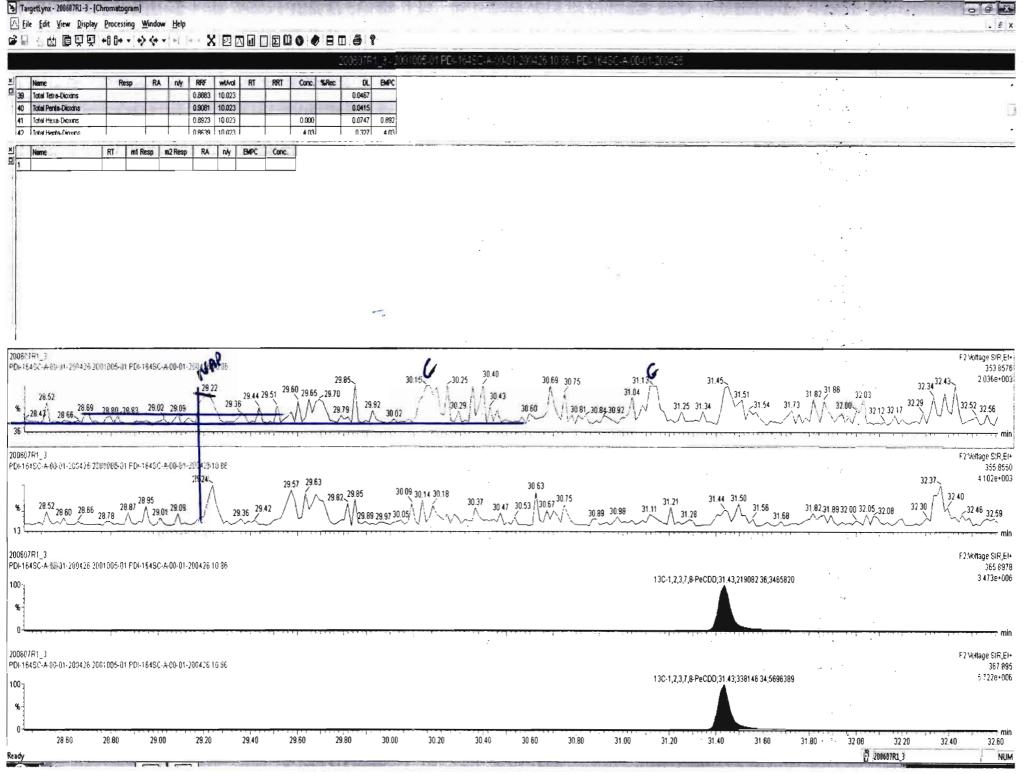


Quantify San Vista Analytica		MassLynx 4.1 SCN815	Page 2 of 182
Dataset:	Untitled		
Last Altered: Printed:		08, 2020 07:40:53 Pacific Daylight Time 08, 2020 07:43:34 Pacific Daylight Time	



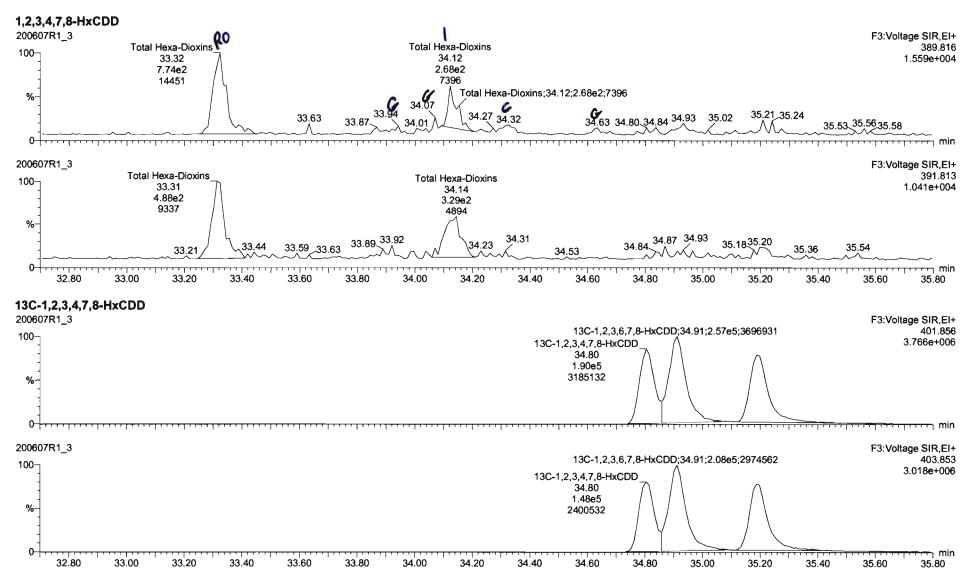
Quantify Sam Vista Analytica		Page 3 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

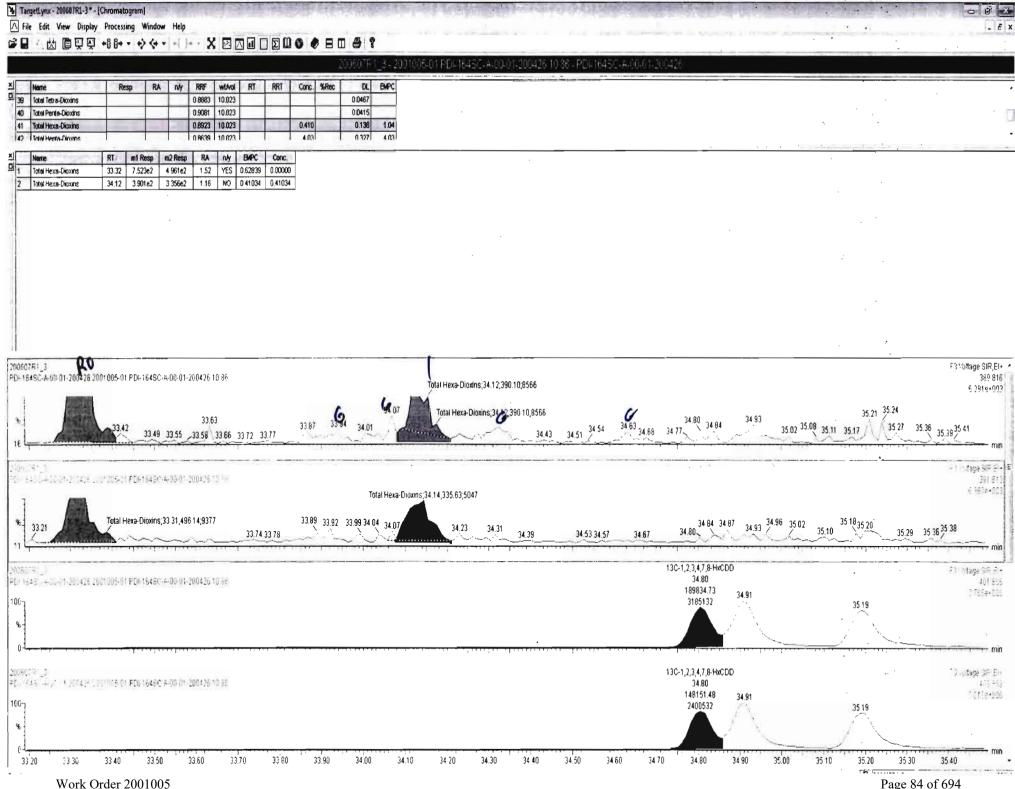




Page 82 of 694

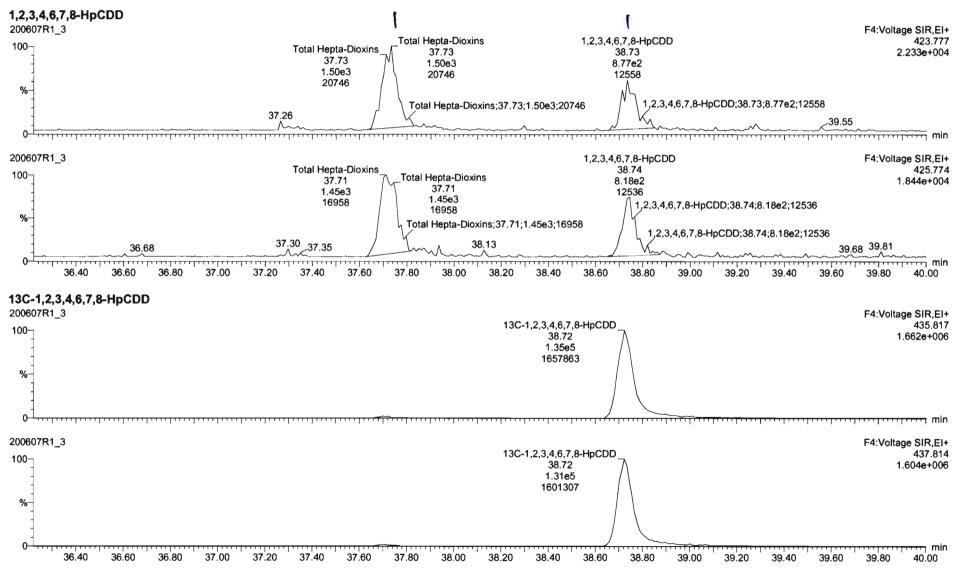
Quantify Sam Vista Analytica		Page 4 of 182
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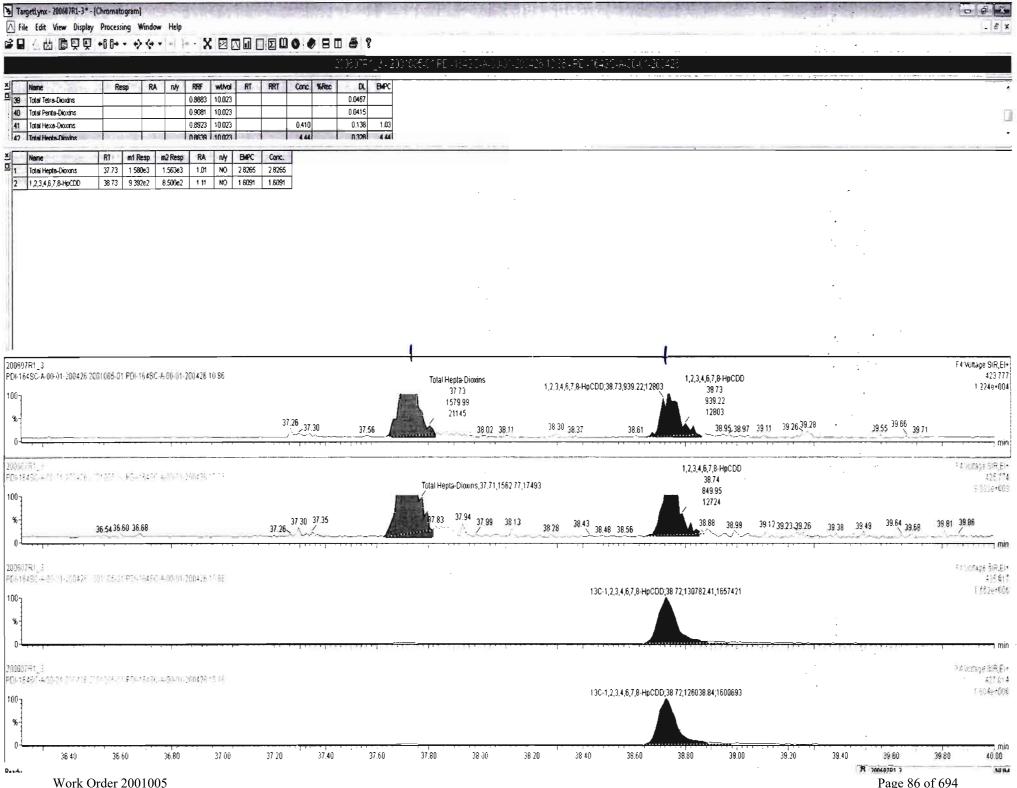




Page 84 of 694

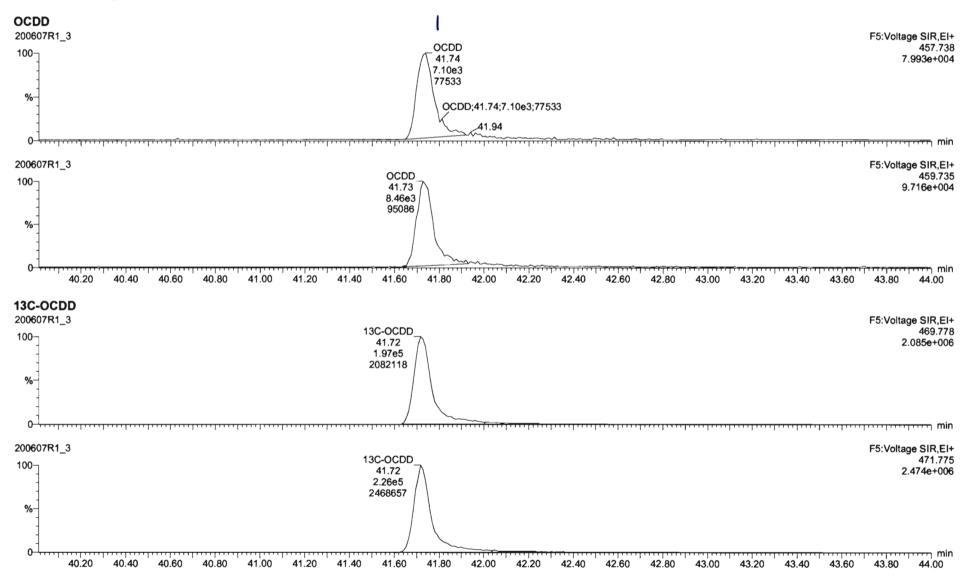
Quantify Sam Vista Analytica		Page 5 of 182
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Page 86 of 694

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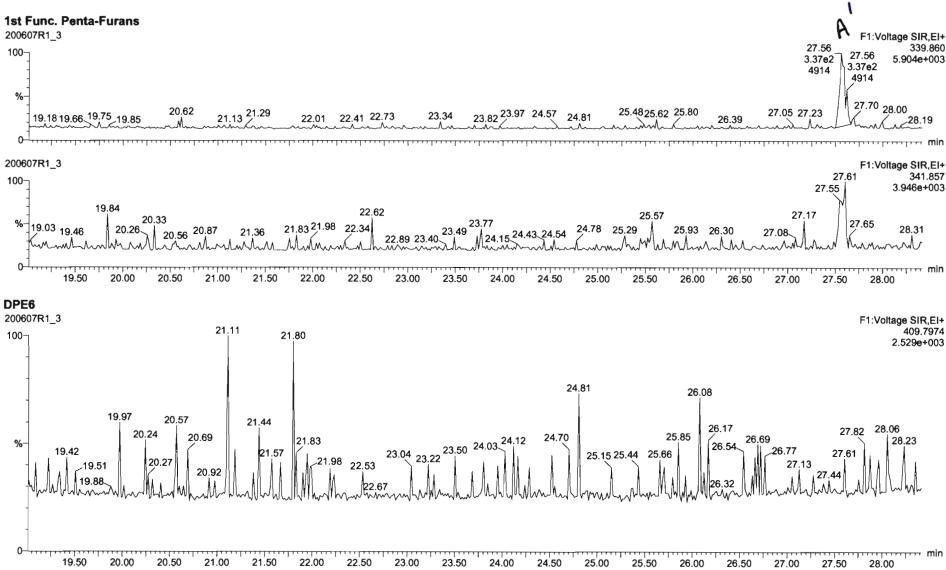
Page 88 of 694

	nple Report MassLynx 4.1 SCN815 al Laboratory	Page 7 of 1
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3,7,8-TCDF 0607R1_3		F1:Voltage SIR,E
)0 19.25 ¹⁹ .	$\begin{array}{c} 21.42 \\ 20.27 \\ 20.51 \\ 20.87^{21.01} \\ 20.87^{21.01} \\ 21.45 \\ 21.99 \\ 22.43 \\ 22.74 \\ 22.92 \\ 23.71 \\ 23.12 \\ 23.12 \\ 23.12 \\ 24.19 \\ 24.30 \\ 24.73 \\ 25.36 \\ 25.62 \\ 25.80 \\ 25.97 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\ 26.50 \\$	27.08 27.40 28.00 2.636e+0
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%	4.68e5 / 4.47e5 / 4.47e5 / 5515114 / 5808219 /	
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0	7430467 /	
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Trital Heya-Fizans	0.9345 10.023	0.0499		
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ISC-A-00-01-200426 2001005-01 PDI-164	4SC-A-00-01-200426-10-36 unc. Penta-Furans;27.56;348-60,4961			F1 Voitage S1 33 4 762e
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27, 23, 27, 31, 27, 35	unc. Penta-Furans;27.56;348 60,4961			4 762e
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27,23,21,31,27,35	unc. Penta-Furans;27.56;348 60,4961	<u></u>		4 762e
450-4-60-01-200426 2001005-01 PDk-164 27 23 27 31 27 35 151 FC 27 23 27 31 27 35 27 27 27 27 27 27 31 27 35 27 27 27 27 27 31 27 35 27 27 27 27 27 27 31 27 35 27 27 27 27 27 27 27 27 27 27 27 27 27 2	unc. Penta-Furans;27.56;348 60,4961			4 762e
190-4-60-01-200426 2001005-01 PDI-164	unc. Penta-Furans;27.56;348.60,4961	2 		4 762e Fi Watage 31
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27 23 27 31 27 35 27 29 27 49 27 27 29 27 49 27 29 20 20 20 20 20 20 20 20 20 20 20 20 20	unc. Penta-Furans;27.56;348 60,4961		13C-1,2,3,7,8-PeCDF,30 15,518040.47,8206342	4 7626 E1 Votage 31 33 31.13 E2 Vintage 31 31.13 E2 Vintage 31 52 51 mtage 31 52 mtage 31
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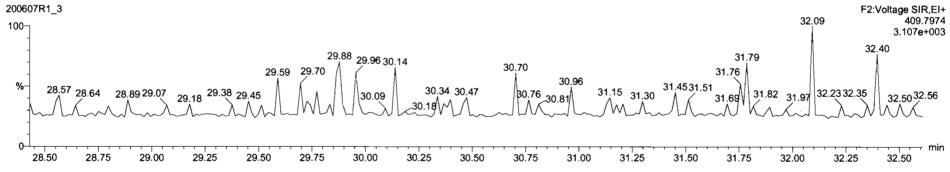
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min 30.40 28.60 30.80 31.00 31 20 27 40 27 60 27 80 28 00 28 20 28 40 . 28 80 **29** 60 29.20 29.40 29 60 29.80 30.00 30 20 30,60 27 20 31 40 * 200607R1_3 NUM Work Order 2001005 Page 91 of 694

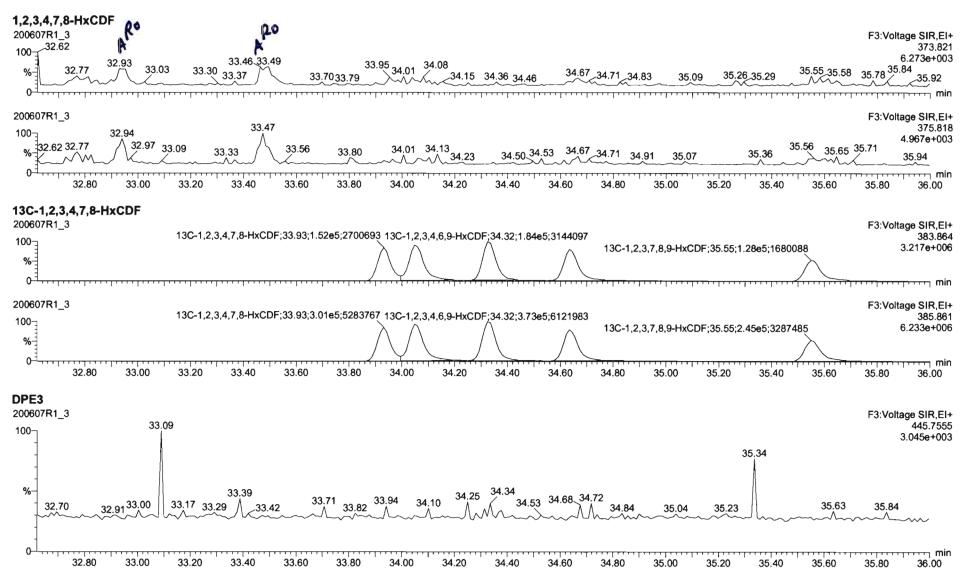
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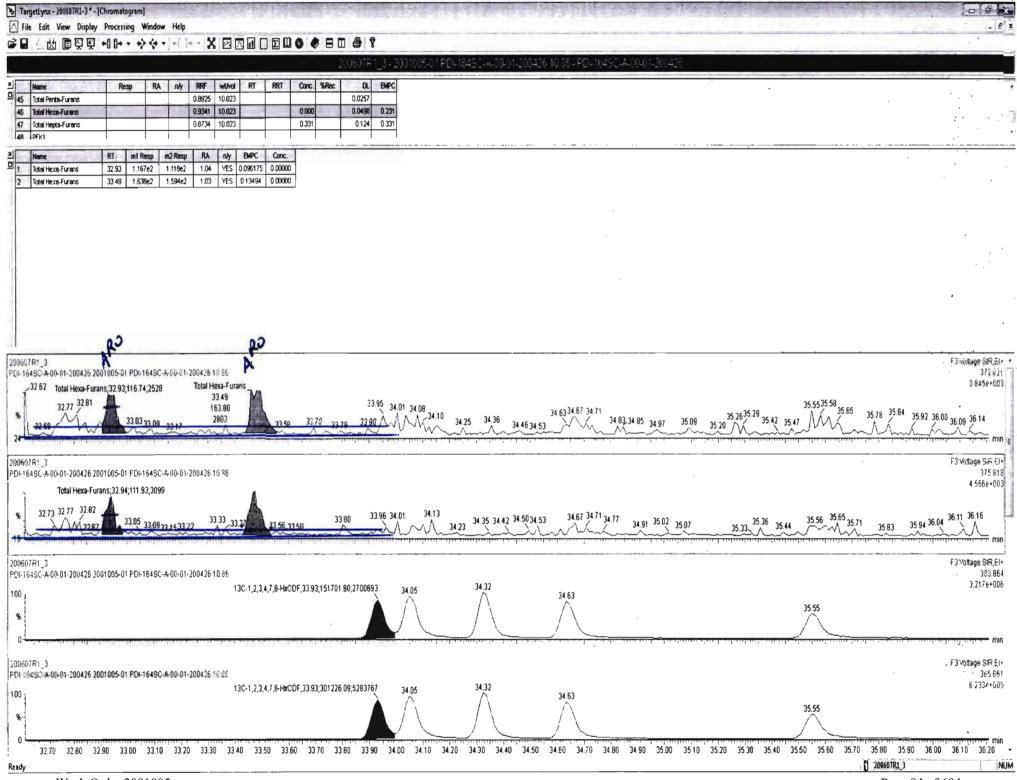
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28.50 3C-1,2,3,7,8- 00607R1_3	PeCDF		2:Voltage SIR,EI 351.90 8.928e+00
28.50 3C-1,2,3,7,8 - 00607R1_3	PeCDF	F 13C-1,2,3,7,8-PeCDF;30.15;5.18e5;8206342 13C-2,3,4,7,8-PeCDF 31.13 5.02e5 8856099	2:Voltage SIR,EI 351.90 8.928e+00
28.50 3C-1,2,3,7,8- 00607R1_3	PeCDF	F 13C-1,2,3,7,8-PeCDF;30.15;5.18e5;8206342 13C-2,3,4,7,8-PeCDF 31.13 5.02e5 8856099	2:Voltage SIR,EI 351.90 8.928e+00



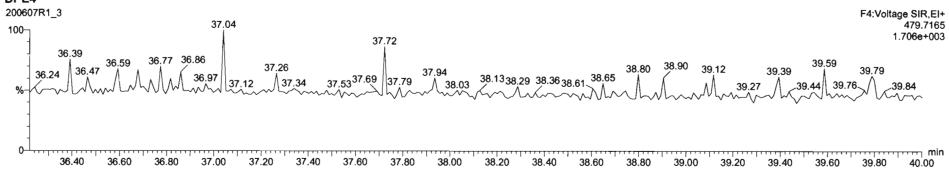
Quantify San Vista Analytica		Page 10 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

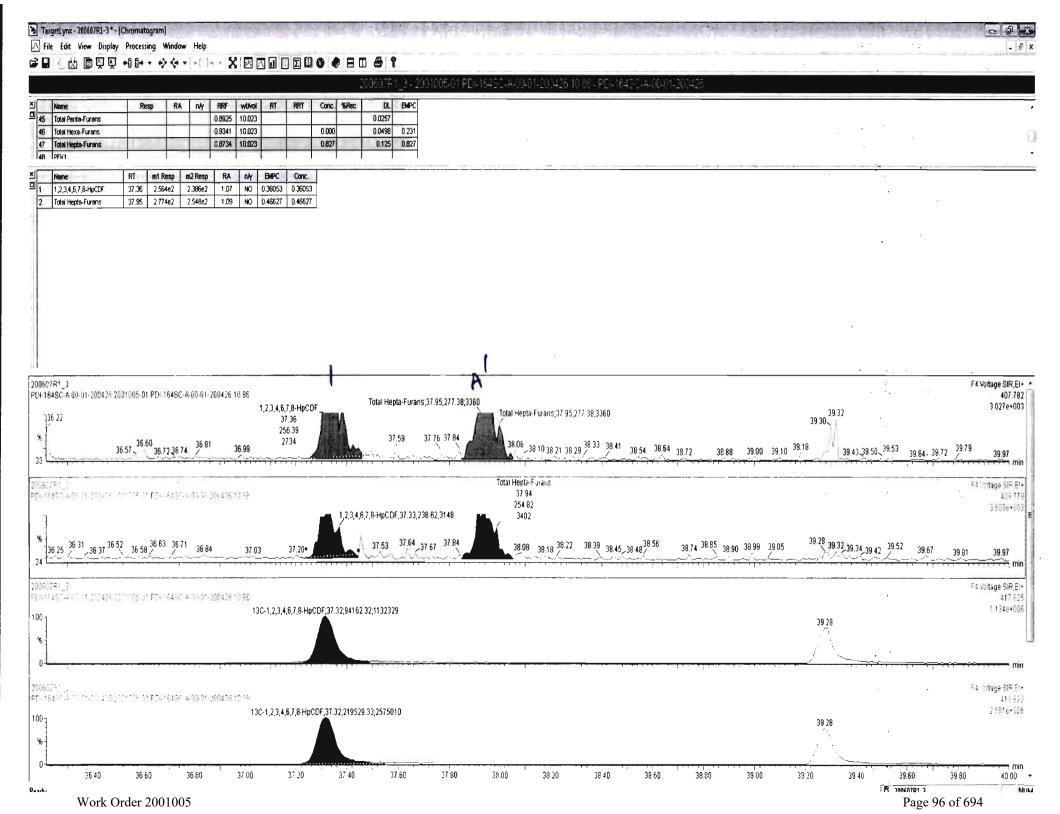




Quantify Sam /ista Analytica		Page 11 of 18
Dataset:	Untitled	
ast Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	
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200607R1_3	i A	F4:Voltage SIR,EI
¹⁰⁰ 36.22	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	407.78 4.365e+00
0 <u>1</u>		••••••••••••••••••••••••••••••••••••••
200607R1_3	1 2 3 4 6 7 8-HpCDF:37 33:2 12e2:3027 37.94:2.56e2:3393	F4:Voltage SIR,E
36.25 3	$\begin{array}{c} 1,2,3,4,6,7,8-\text{HpCDF};37.33;2.12e2;3027 37.94;2.56e2;3393 \\ \hline 37.46 37.64 37.64 37.67 38.08 38.1838.39 \\ \hline 38.08 38.1838.39 38.45 38.48 38.74 38.90 39.28 39.32 39.37 39.47 39.67 39.47 39.67 39.47 39.67 38.90 39.28 39.32 39.32 39.32 39.37 39.47 39.67 39.47 39.67 39.47 39.67 38.90 39.28 39.32 39.32 39.32 39.32 39.32 39.37 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.47 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39.67 39$	409.77 4.387e+00 <u>39.81</u>
0- ¹		39.80 40.00
3C-1,2,3,4,6,	7,8-HpCDF	F4:Voltage SIR,E
100 ₃	13C-1,2,3,4,6,7,8-HpCDF;37.32;9.42e4;1132329	417.82 1.134e+00
% ⁻		
200607R1_3		F4:Voltage SIR,E
- 100 %	13C-1,2,3,4,6,7,8-HpCDF;37.32;2.22e5;2573592	419.82
-		

DPE4





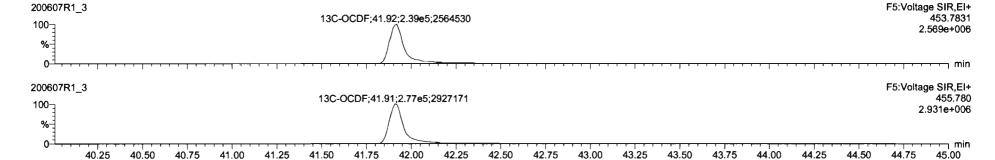
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Dataset:	Untitled					
ast Altered: Printed:		, 2020 07:40:53 Pacific Daylight Time , 2020 07:43:34 Pacific Daylight Time				
ame: 20060 CDF	7R1_3, Date: 07-J	ın-2020, Time: 10:15:40, ID: 2001005-01 PDI-164SC-A-00-01-200426 10.86, Description: PDI-164SC-A-00-01-2004 و	26			
00607R1_3		41.93	F5:Voltage SIR,EI 441.74 3.757e+00			
% 40.3 0 40.3	² 40.45 40	94 41.06 41.43 41.57 41.85 41.25 42.04 42.3142.39 42.70 42.79 43.16 43.28 43.45 43.63 44.02 44.07	44.60 44.74 44.90			
00607R1_3		41.94	F5:Voltage SIR,EI- 443.740			
100 40.03 40.1	8 40.59 40.63 40.8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 44.50 3.752e+003 44.84			

42.75

43.50

43.25

43.00



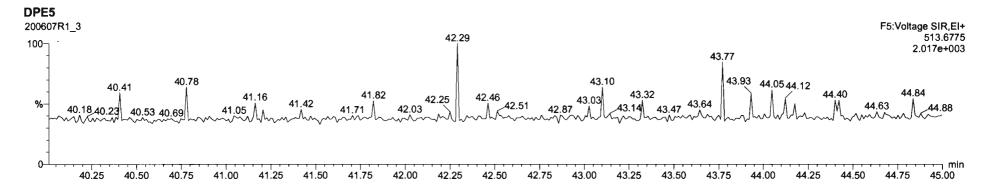
42.50

42.25

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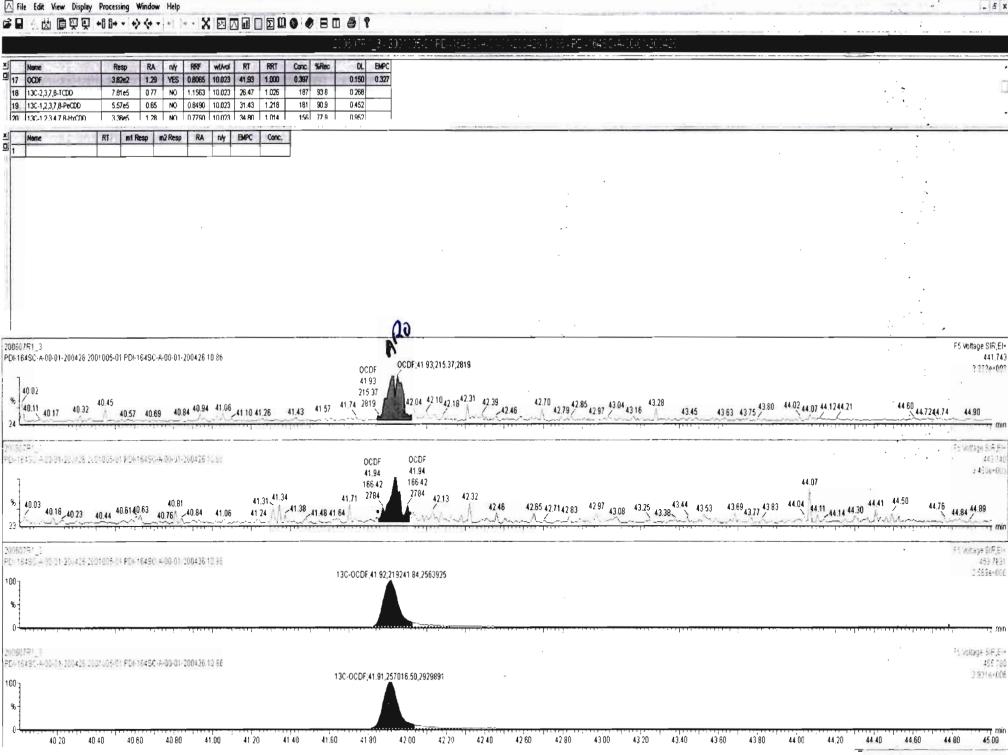
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44.25

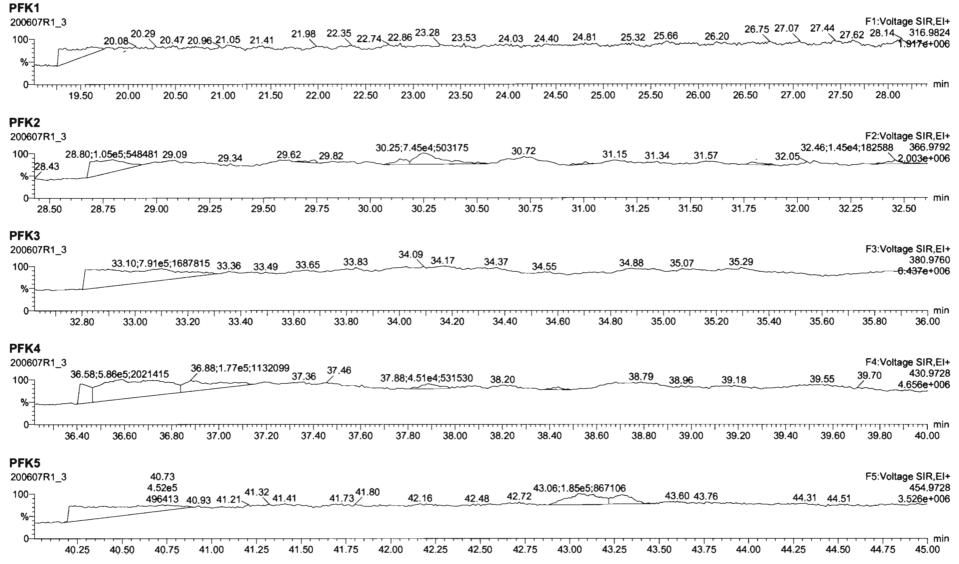
44.00

43.75



> TargetLynx - 200607R1-3* - [Chromatogram]

Report MassLynx 4.1 SCN815 aboratory	Page 13 of 182
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Quantify Sample Summary Report	MassLynx 4.1 SCN815
Vista Analytical Laboratory	

U:\VG12.PRO\Results\200607R1\200607R1-4b.qld Dataset:

Last Altered:	Tuesday, June 09, 2020 2:37:49 PM Pacific Daylight Time
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Page 1 of 2

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: 200607R1_4, Date: 07-Jun-2020, Time: 11:01:51, ID: B0E0107-DUP1 Dupljcate 10.86, Description: Duplicate

							4060	9-2020	,					
State State of State	# Name	Resp	RA	n/y	RRF	wt/vol	Fed.BT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
100 国际社	1 2,3,7,8-TCDD			NO	0.888	-10:060	20.486		1.001				0.0834	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.860	31.442		1.001				0.0944	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.860	34.803		1.000				0.142	
4 (Stants)	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.860	34.900		1.000				0.141	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.860	35.199		1.000				0.178	
6	6 1,2,3,4,6,7,8-HpCDD	1.44e3	0.96	NO	0.864	10.860	38.725	38.72	1.000	1.000	1.6225		0.332	1.62
7	7 OCDD	1.13e4	0.87	NO	0.914	10.860	41.695	41.71	1.000	1.000	22.777		0.790	22.8
8	8 2,3,7,8-TCDF			NO	0.751	10.860	25.582		1.001				0.0607	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.860	30.160		1.001				0.0657	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.860	31.161		1.001				0.0648	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.860	33.931		1.000				0.0646	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.860	34.058		1.000				0.0568	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.860	34.669		1.001				0.0671	1
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.860	35.550		1.000				0.106	
15	15 1,2,3,4,6,7,8-HpCDF	5.35e2	0.93	NO	0.873	10.860	37.344	37.32	1.001	1.000	0.45781		0.151	0.458
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.860	39.267		1.000				0.189	
17	17 OCDF			NO	0.806	10.860	41.876		1.000				0.218	ļ
18	18 13C-2,3,7,8-TCDD	7.17e5	0.77	NO	1.16	10.860	26.476	26.45	1.026	1.026	188.17	94.3	0.280	
19	19 13C-1,2,3,7,8-PeCDD	5.16e5	0.65	NO	0.849	10.860	31.656	31.42	1.227	1.218	184.55	92.5	0.579	
20	20 13C-1,2,3,4,7,8-HxCDD	2.98e5	1.27	NO	0.779	10.860	34.809	34.79	1.014	1.014	144.58	72.5	0.860	
21	21 13C-1,2,3,6,7,8-HxCDD	4.19e5	1.28	NO	1.02	10.860	34.922	34.90	1.017	1.017	155.87	78.2	0.659	
22	22 13C-1,2,3,7,8,9-HxCDD	3.41e5	1.22	NO	0.903	10.860	35.193	35.19	1.025	1.025	142.96	71.7	0.742	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.05e5	1.02	NO	0.689	10.860	38.715	38.71	1.128	1.128	112.34	56.3	0.468	
24	24 13C-OCDD	2.17e5	0.88	NO	0.652	10.860	41.736	41.69	1.216	1.215	126.01	31.6	0.896	
25 26	25 13C-2,3,7,8-TCDF	9.25e5	0.77	NO	1.06	10.860	25.519	25.56	0.989	0.991	180.10	90.3	0.463	
26	26 13C-1,2,3,7,8-PeCDF	7.81e5	1.57	NO	0.838	10.860	30.041	30.14	1.165	1.168	192.08	96.3	0.573	
27	27 13C-2,3,4,7,8-PeCDF	7.58e5	1.60	NO	0.817	10.860	30.993	31.13	1.202	1.207	191.45	96 .0	0.588	
28	28 13C-1,2,3,4,7,8-HxCDF	4.16e5	0.50	NO	1.01	10.860	33.941	33.93	0.989	0.989	156.32	78.4	0.766	
29	29 13C-1,2,3,6,7,8-HxCDF	5.09e5	0.49	NO	1.17	10.860	34.064	34.05	0.992	0.992	165.25	82.9	0.662	
30	30 13C-2,3,4,6,7,8-HxCDF	4.09e5	0.51	NO	1.02	10,860	34.637	34.63	1.009	1.009	151.34	75.9	0.756	

Quantify Sample Summary Report Vista Analytical Laboratory MassLynx 4.1 SCN815

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-4b.qld

Last Altered:	Tuesday, June 09, 2020 2:37:49 PM Pacific Daylight Time
Printed:	Tuesday, June 09, 2020 2:50:15 PM Pacific Daylight Time

Name: 200607R1_4, Date: 07-Jun-2020, Time: 11:01:51, ID: B0E0107-DUP1 Duplicate 10.86, Description: Duplicate

A COLUMN TO A	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	9/Det	DL	CHIDO
31	31 13C-1,2,3,7,8,9-HxCDF	3.46e5	0.49	NO	0.860		35.537	A DECKER OF	And a subject of the local division of the	and the second second		%Rec	AND REAL PROPERTY OF THE PARTY	EMPC
a state of the second se							1	35.55	1.035	1.036	152.18	76.3	0.898	
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.67e5	0.42	NO	0.774	10.860	37.284	37.31	1.086	1.087	130.38	65.4	0.605	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.67e5	0.42	NO	0.521	10.860	39.312	39.27	1.145	1.144	121.17	60.8	0.900	(
34	34 13C-OCDF	3.28e5	0.87	NO	0.746	10.660	41.907	41.88	1.221	1.220	166.72	41.8	0.599	
35	35 37CI-2,3,7,8-TCDD	2.63e5			1.04	10.660	26.507	26.47	1.028	1.026	76.879	96.4	0.0778	
36	36 13C-1,2,3,4-TCDD	6.57e5	0.81	NO	1.00	10.860	25.890	25.80	1.000	1.000	199.45	100	0.324	
37	37 13C-1,2,3,4-TCDF	9.67e5	0.78	NO	1.00	10.860	24.360	24.10	1.000	1.000	199.45	100	0.491	
38	38 13C-1,2,3,4,6,9-HxCDF	5.27e5	0.50	NO	1.00	10. 60	34.420	34.33	1.000	1.000	199.45	100	0.772	
39	39 Total Tetra-Dioxins				0.888	10.60	24.620		0.000		0.12020		0.0473	0.120
40	40 Total Penta-Dioxins				0.908	10.60	29.960		0.000				0.0247	
41	41 Total Hexa-Dioxins				0.892	10.60	33.635		0.000		0.64791		0.159	0.930
42	42 Total Hepta-Dioxins				0.864	10.60	37.640		0.000		4.6960		0.332	4.70
43	43 Total Tetra-Furans				0.751	10.60	23.610		0.000				0.0241	
44	44 1st Func. Penta-Furans				0.893	10.60	27.580		0.000		0.32935		0.0323	0.329
45	45 Total Penta-Furans				0.893	10.60	29.275		0.000		0.10330		0.0284	0.103
46	46 Total Hexa-Furans				0.934	10.60	33.555		0.000		0.23717		0.0349	0.384
47	47 Total Hepta-Furans				0.873	10.50	37.835		0.000		1.0520		0.177	1.05
48	48 PFK1													
49	49 PFK2													
50	50 PFK3													
51	51 PFK4													ļ
52	52 PFK5													
53	53 DPE1													
54	54 DPE2													
55	55 DPE3													
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57	57 DPE5													
58	58 DPE6					_								

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-4b.qld

Last Altered: Tuesday, June 09, 2020 2:37:49 PM Pacific Daylight Time Printed: Tuesday, June 09, 2020 2:50:15 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: 200607R1_4, Date: 07-Jun-2020, Time: 11:01:51, ID: B0E0107-DUP1 Duplicate 10.86, Description: Duplicate

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Dioxins	24.27	2.575e3	2.995e3	1.776e2	2.063e2	0.86	NO	3.839e2	0.12020	0.12020	0.0473

Penta-Dioxins

Name	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA	nly	Resp	Conc.	EMPC	DL
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										

Hexa-Dioxins

Alteria	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.30	1.020e4	9.370e3	5.912e2	4.301e2	1.37	NO	1.021e3	0.64791	0.64791	0.159
2	Total Hexa-Dioxins	34.13	4.845e3	4.519e3	2.458e2	2.750e2	0.89	YES	0.000e0	0.00000	0.28171	0.159

Hepta-Dioxins

33.363	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 HOLE	Total Hepta-Dioxins	37.71	1.730e4	1.749e4	1.355e3	1.368e3	0.99	NO	2.723e3	3.0735	3.0735	0.332
2	1,2,3,4,6,7,8-HpCDD	38.72	1.099 e4	9.201e3	7.035e2	7.338e2	0.96	NO	1.437e3	1.6225	1.6225	0.332

Tetra-Furans

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

Penta-Furans function 1

STATISTICS.	Nante	151	m1 Height	n.2 Height	m'l Rosp	m2 Resp	ASI	ray	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.58	9.372e3	8.717e3	6.891e2	4.447e2	1.55	NO	1.134e3	0.32935	0.32935	0.0323

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-4b.qld

Last Altered:	Tuesday, June 09, 2020 2:37:49 PM Pacific Daylight Time
Printed:	Tuesday, June 09, 2020 2:50:15 PM Pacific Daylight Time

Name: 200607R1_4, Date: 07-Jun-2020, Time: 11:01:51, ID: B0E0107-DUP1 Duplicate 10.86, Description: Duplicate

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-Furans	29.19	4.635e3	2.229e3	2.270e2	1.286e2	1.76	NO	3.556e2	0.10330	0.10330	0.0284

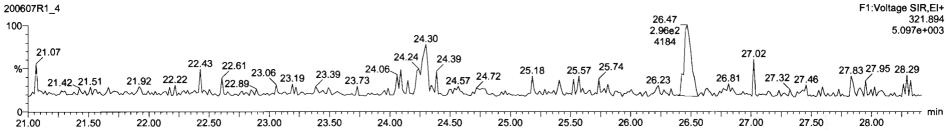
Hexa-Furans

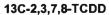
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	- Conc.	EMPC	DL
1	Total Hexa-Furans	32.94	3.942e3	3.981e3	1.600e2	1.742e2	0.92	YES	0.000e0	0.00000	0.14699	0.0349
2	Total Hexa-Furans	33.48	4.803e3	3.868e3	2.607e2	2.057e2	1.27	NO	4.664e2	0.23717	0.23717	0.0349

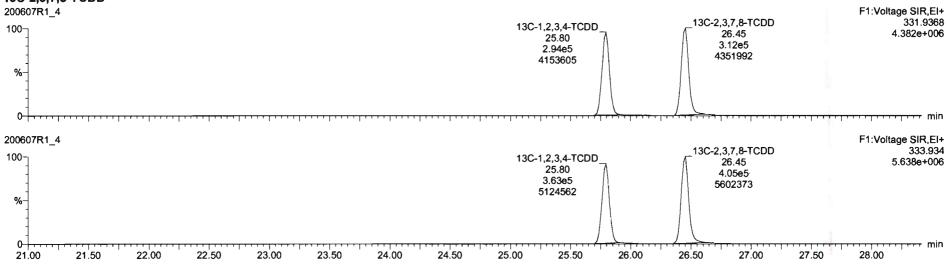
Hepta-Furans

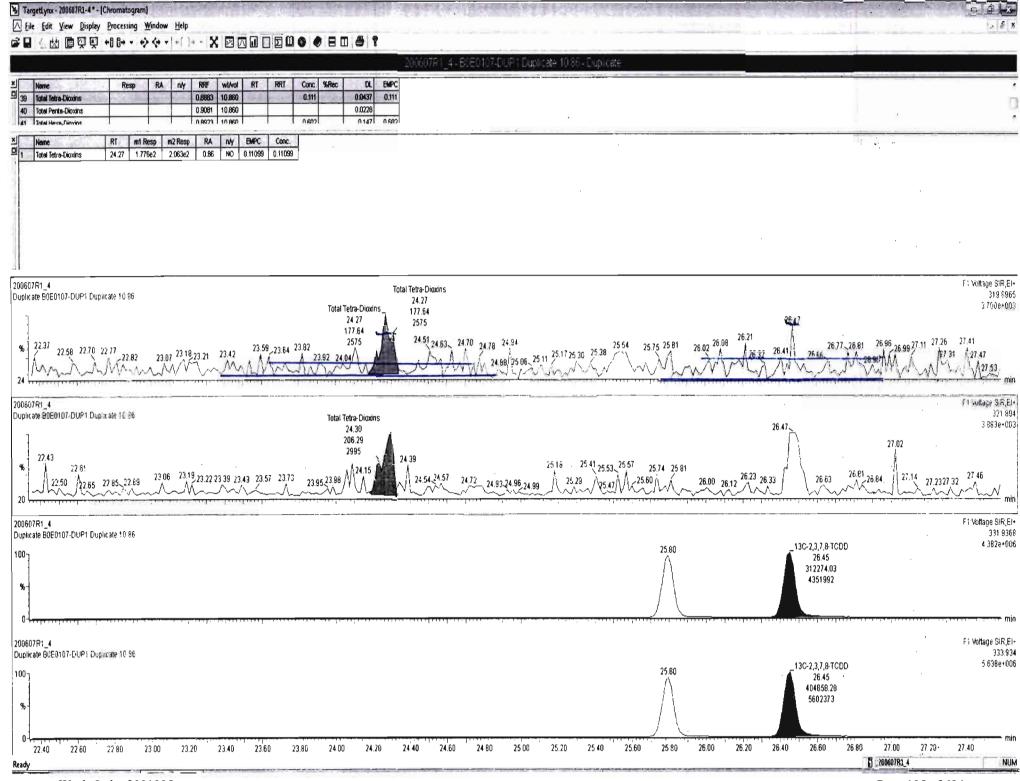
LIRADICON	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
10000	1,2,3,4,6,7,8-HpCDF	37.32	4.141e3	5.037e3	2.584e2	2.764e2	0.93	NO	5.348e2	0.45781	0.45781	0.151
2	Total Hepta-Furans	37.92	4.610e3	3.691e3	2.915e2	2.725e2	1.07	NO	5.640e2	0.59418	0.59418	0.177

Quantify Sam Vista Analytica		ynx 4.1 SCN815		Page 14 of 18
Dataset:	Untitled			
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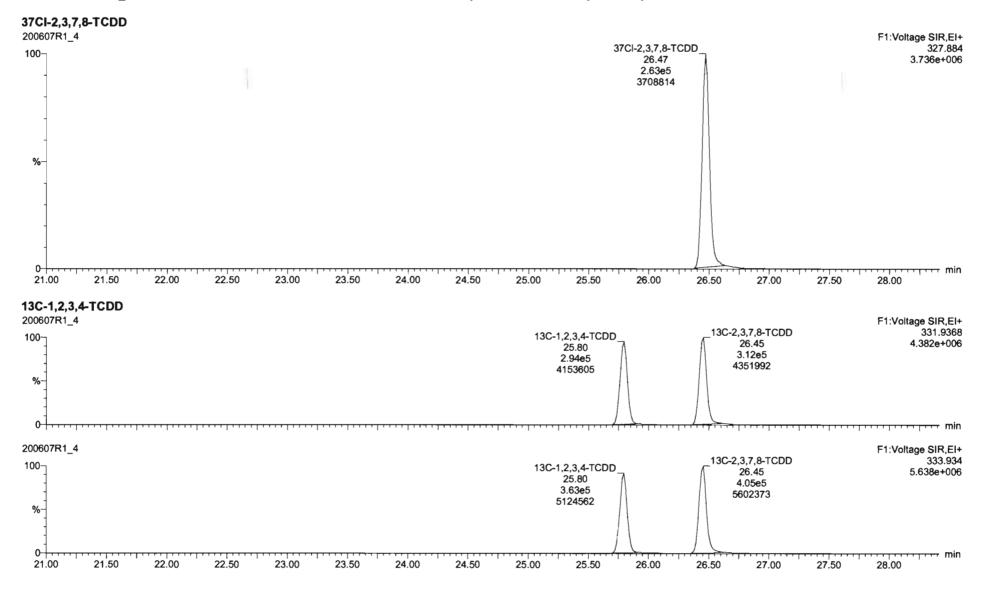




Page 105 of 694

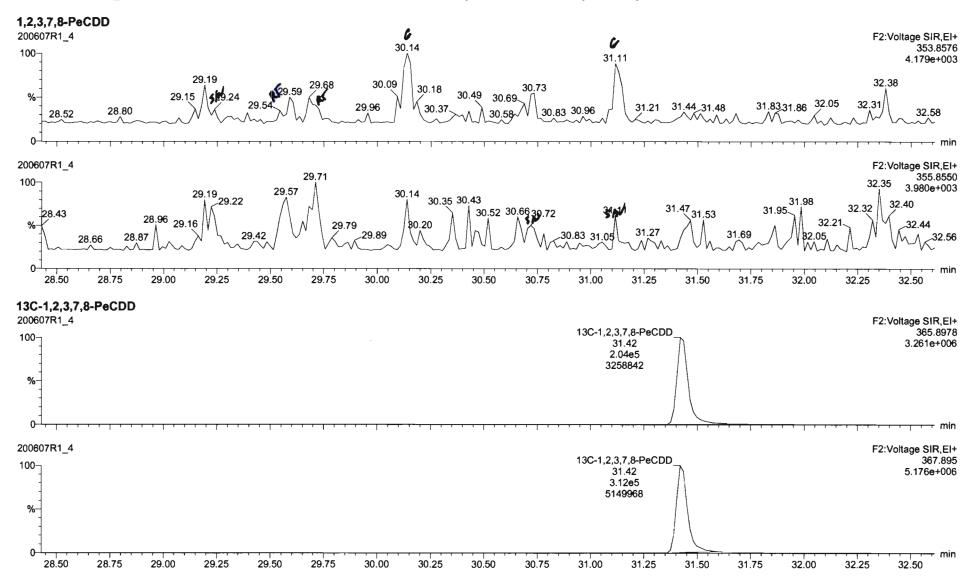
Quantify Sam Vista Analytica		Page 15 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

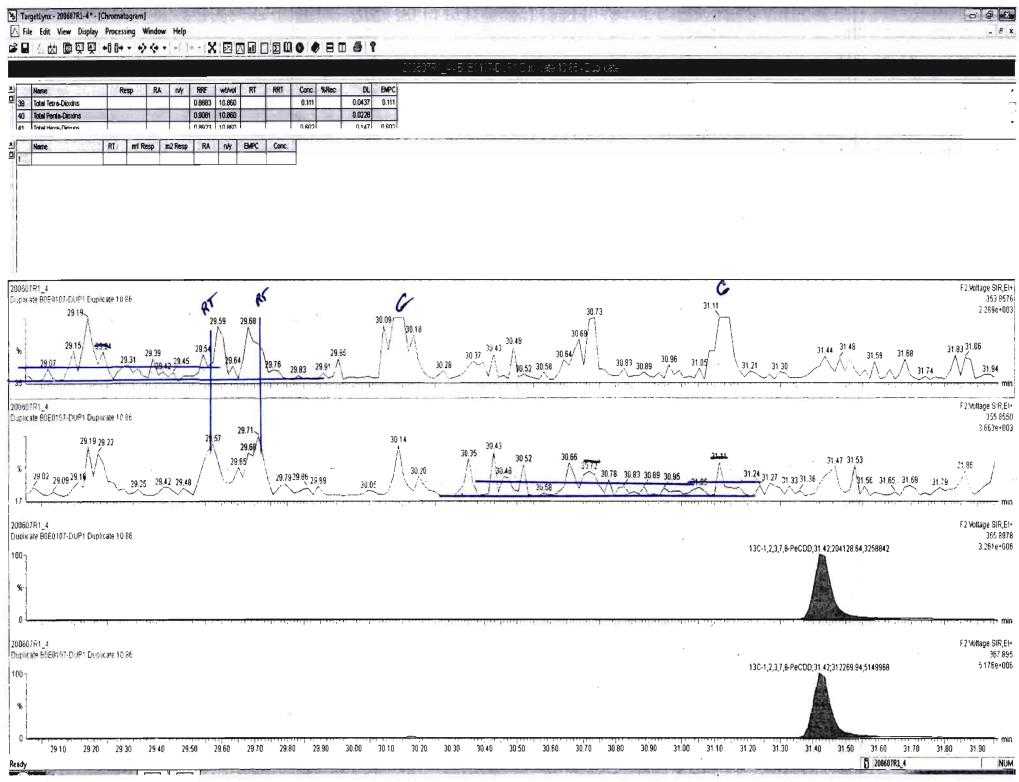
Name: 200607R1_4, Date: 07-Jun-2020, Time: 11:01:51, ID: B0E0107-DUP1 Duplicate 10.86, Description: Duplicate



Quantify Sam Vista Analytica		Page 16 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

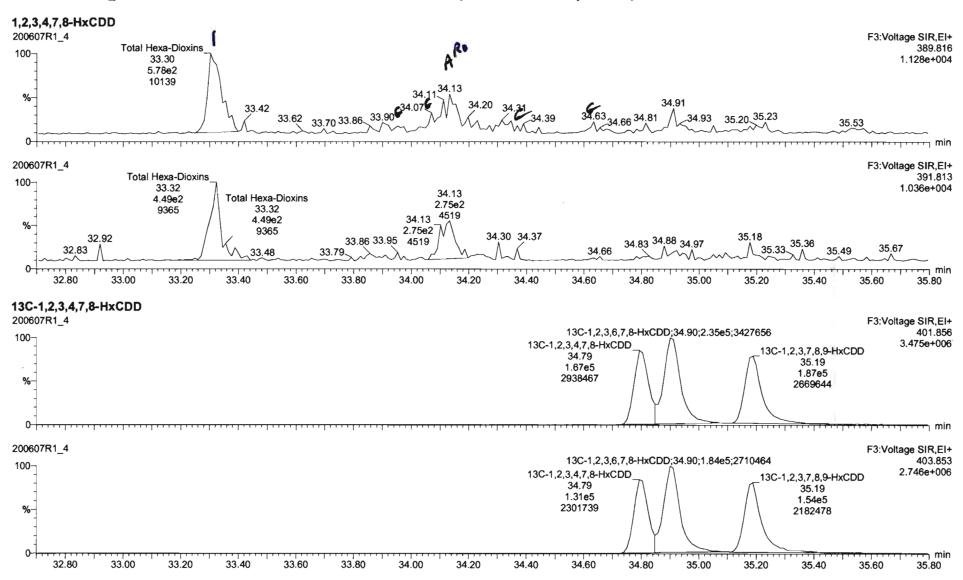
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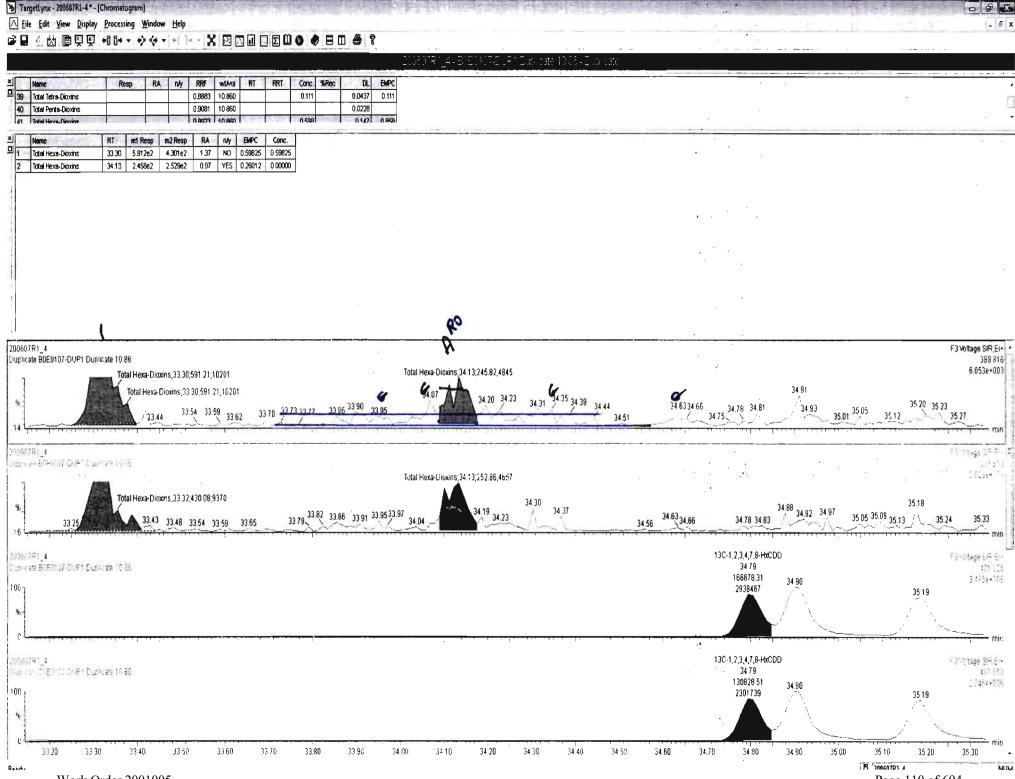




Page 108 of 694

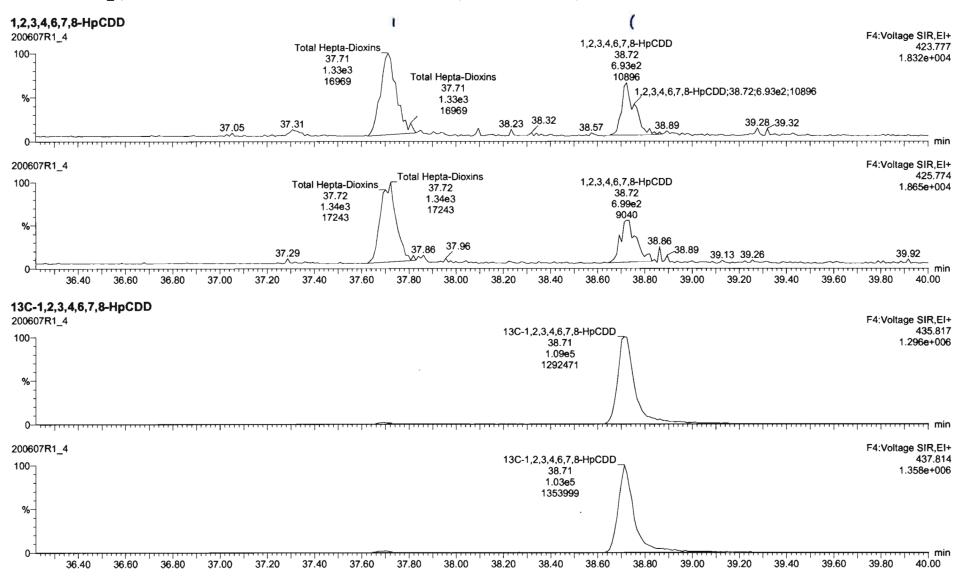
Quantify San Vista Analytica		Page 17 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

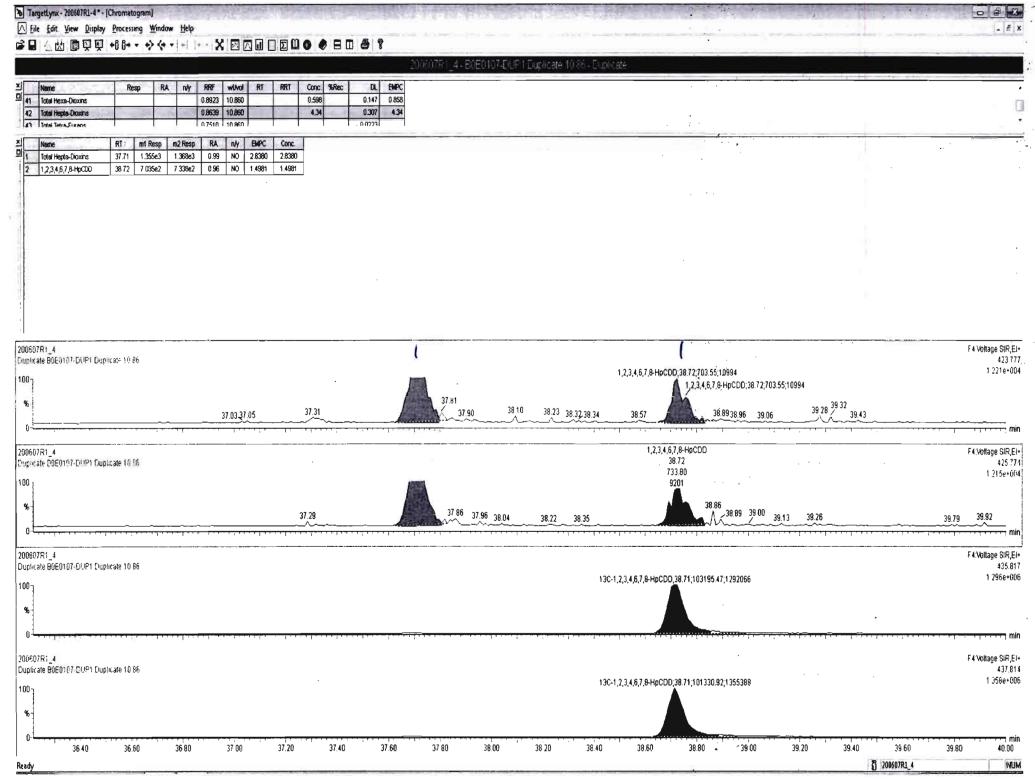




Page 110 of 694

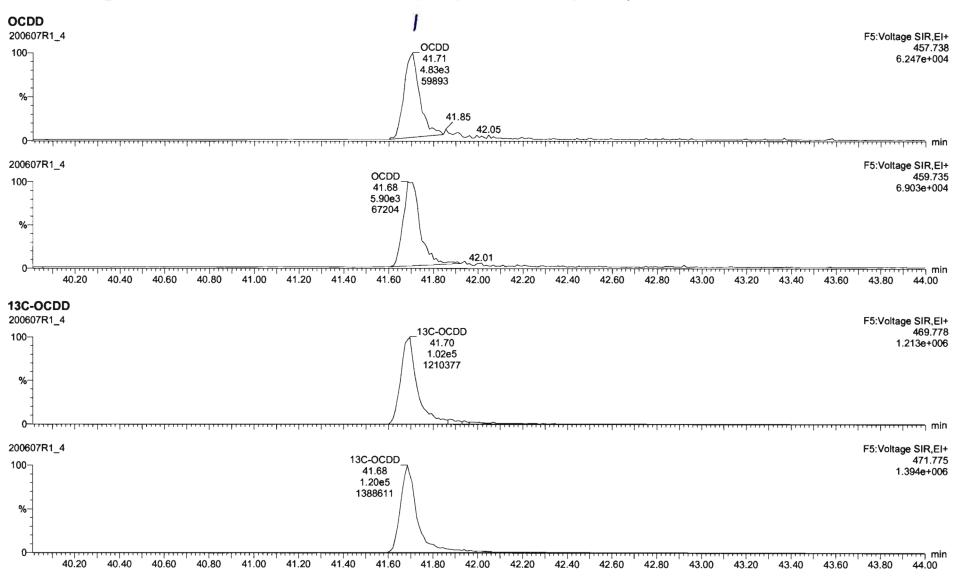
Quantify Sam Vista Analytica	• •	MassLynx 4.1 SCN815	Page 18 of 182
Dataset:	Untitled		
Last Altered: Printed:		08, 2020 07:40:53 Pacific Daylight Time 08, 2020 07:43:34 Pacific Daylight Time	





Page 112 of 694

Quantify San Vista Analytica		Page 19 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



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Name Resp RA N/y RRF wt/with RT RRT Conc. %Rec DL EMPC OCD0 1.13e4 0.87 NO 0.9136 10.960 41.71 1.000 21.0 0.730 21.0 2,3,7,8-TCDF NO 0.7510 10.860 0 0.0561 0.0606			
Name RT m1 Resp m2 Resp RA n/y BMPC Conc.			· · · ·
107R1_4 ixate 80E0107-DUP1 Duplicate 10.86 			F 5 Vortage SIF 457 6.247 e-
41.85 42.05			101000 - 10100 - 10100 - 10100 - 10100 - 10100 - 10100 - 10100
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42.01			
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a ate BOEDTOT CHIPT Ducticate 16 85 13C-OCDD;41.70;101731 20;1210773			153 1 213e
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icare BRE1117 Date: "Drollings 10 86 13C-OCDD,41.68,115329,38,1381935			1-394e
40.20 40.40 40.80 41.00 41.20 41.40 41.60 41.80 42.00	42 20 42 40 42 60 42 60 43 00	43 20 43 40 43 60 43 80 41.00	44.20 44.40 43.60 44.80 45.0 (5) 200607R1_4

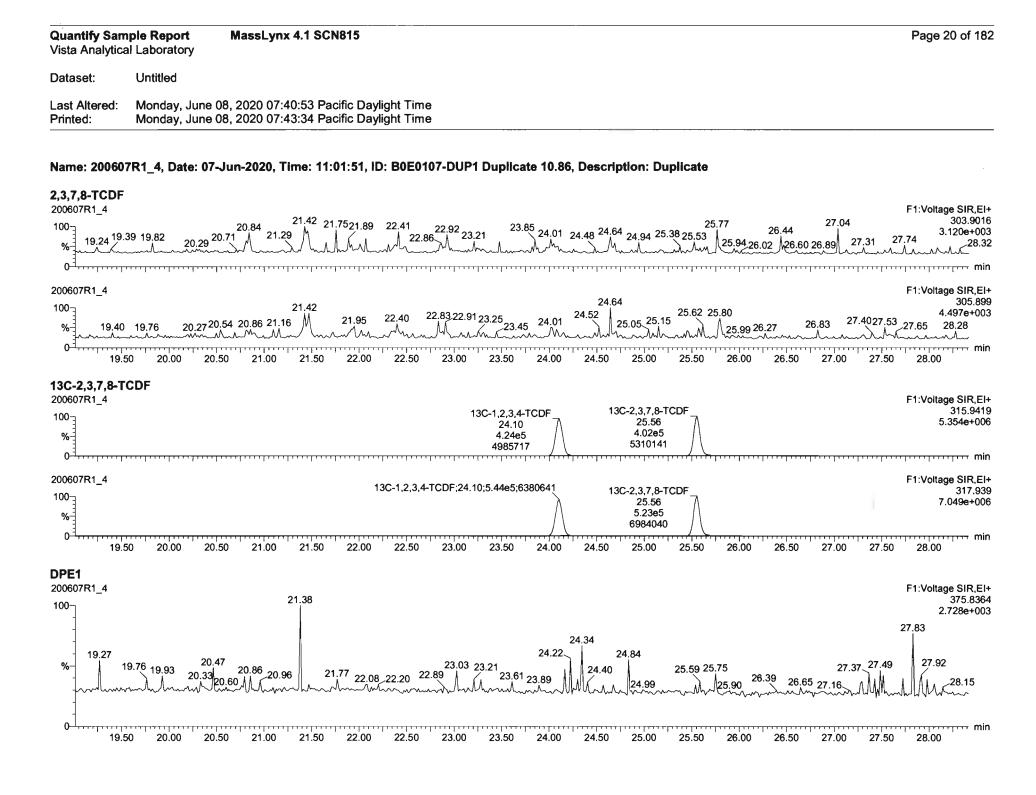
CALL PROPERTY AND

Work Order 2001005

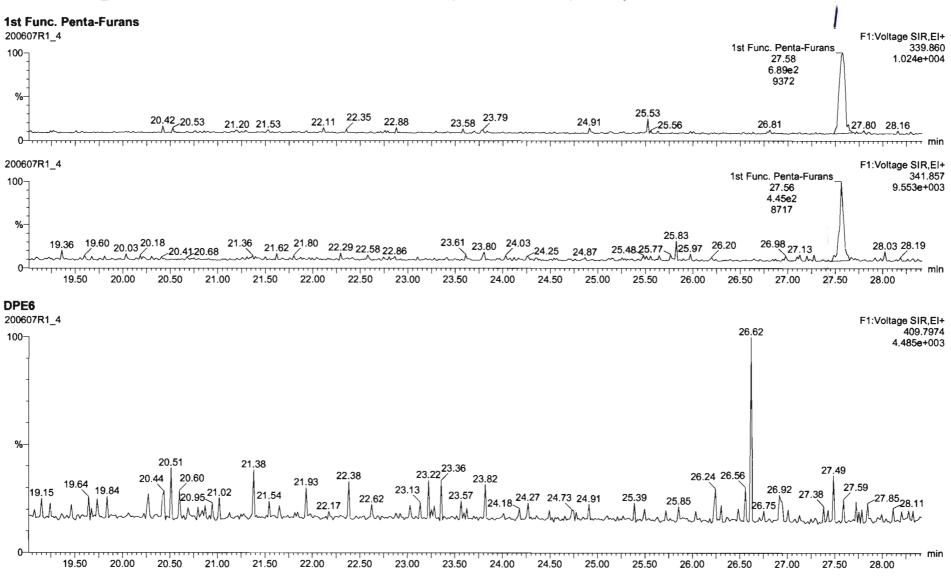
Targetlynx - 200607R1-4* - [Chromatogram]

Page 114 of 694

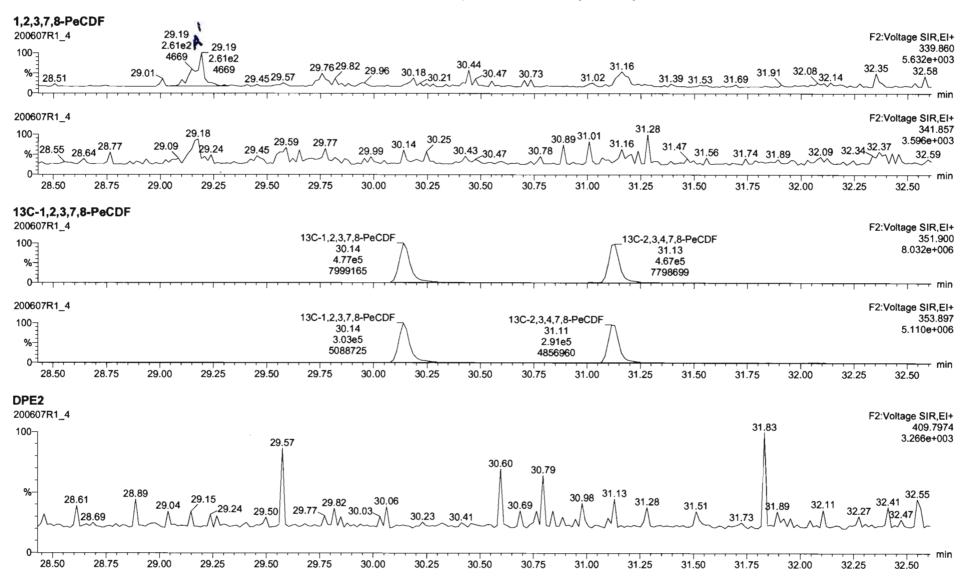
- - - X

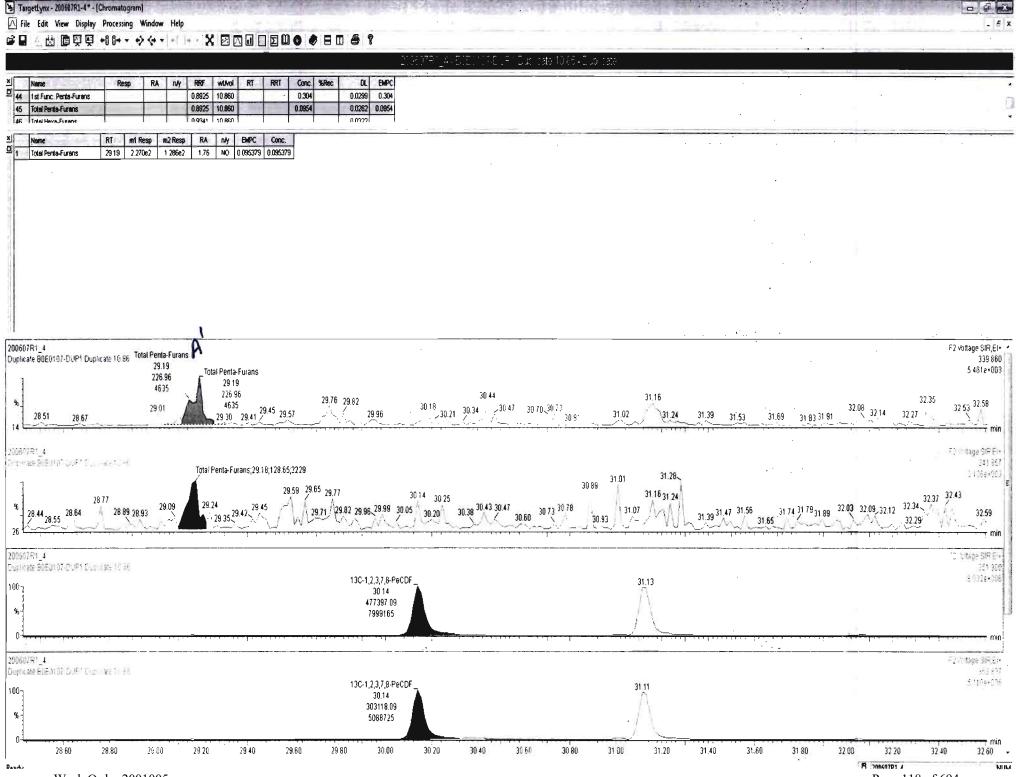


Quantify San Vista Analytica		Page 21 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



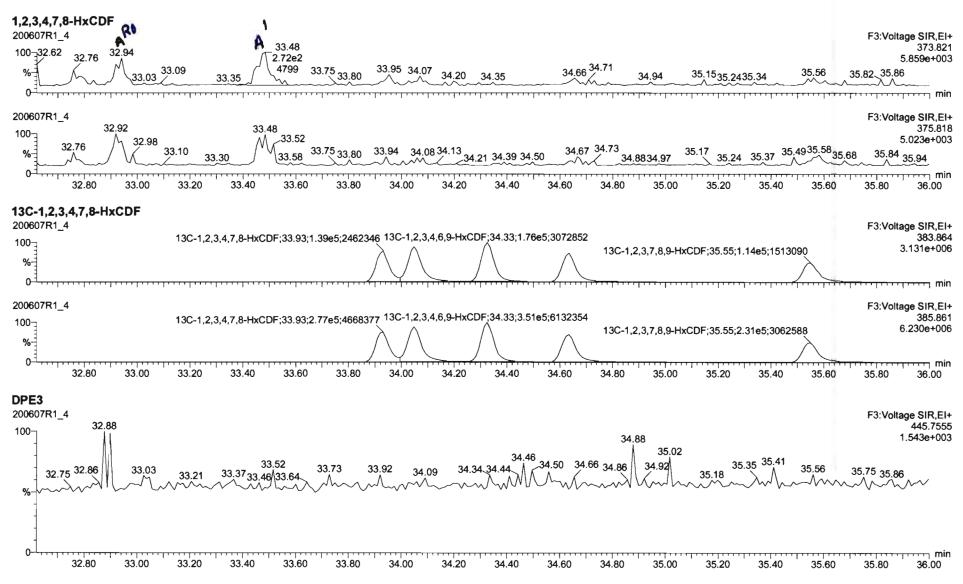
Quantify Sam Vista Analytica		Page 22 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

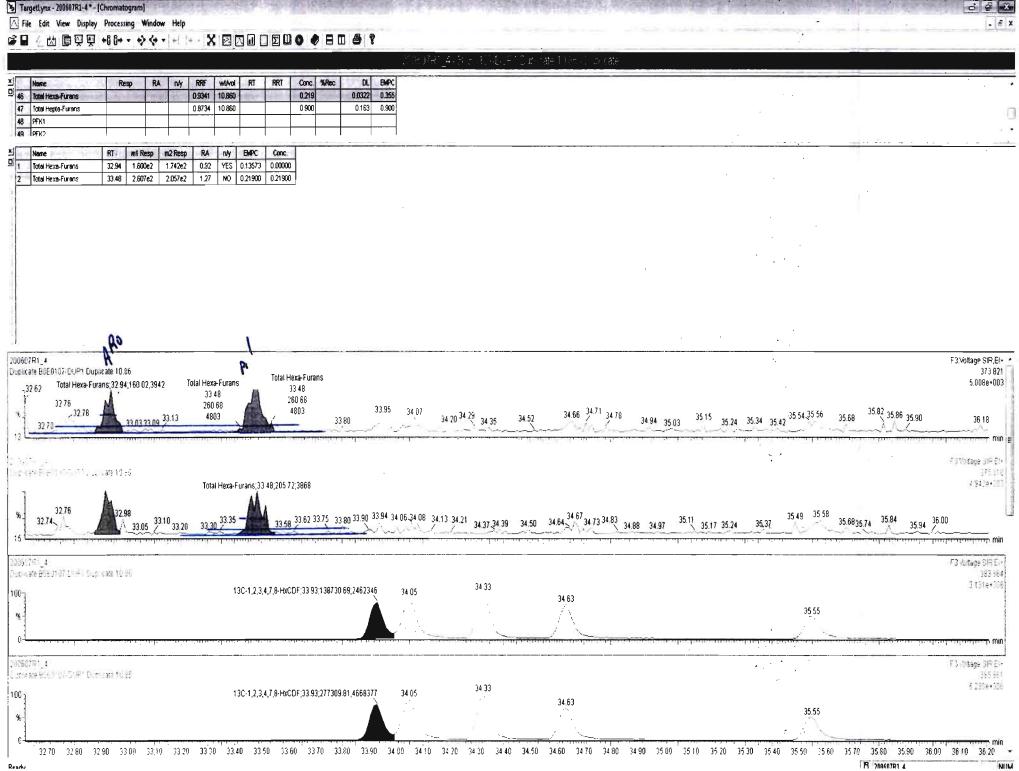




Page 118 of 694

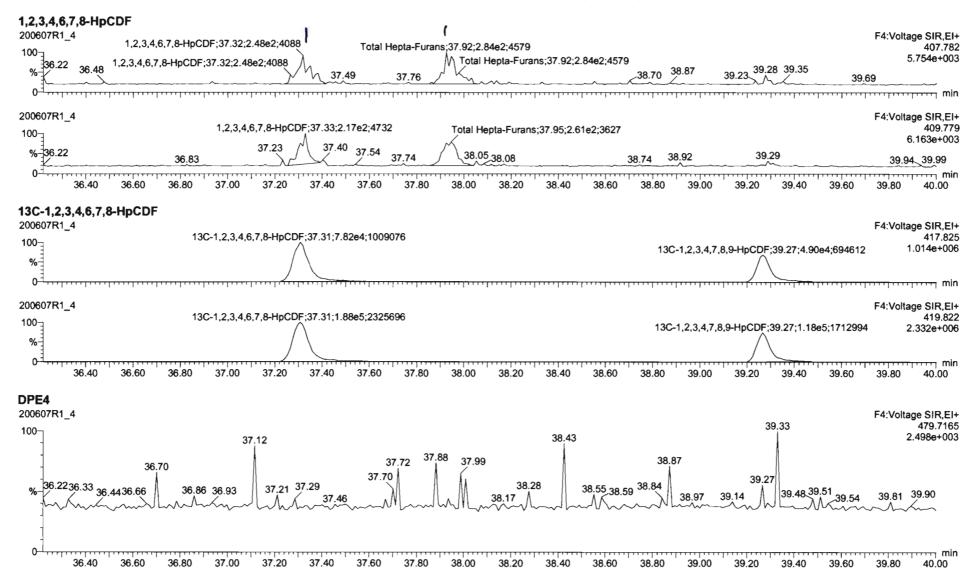
Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 23 of 182
Dataset:	Untitled		
Last Altered: Printed:		08, 2020 07:40:53 Pacific Daylight Time 08, 2020 07:43:34 Pacific Daylight Time	

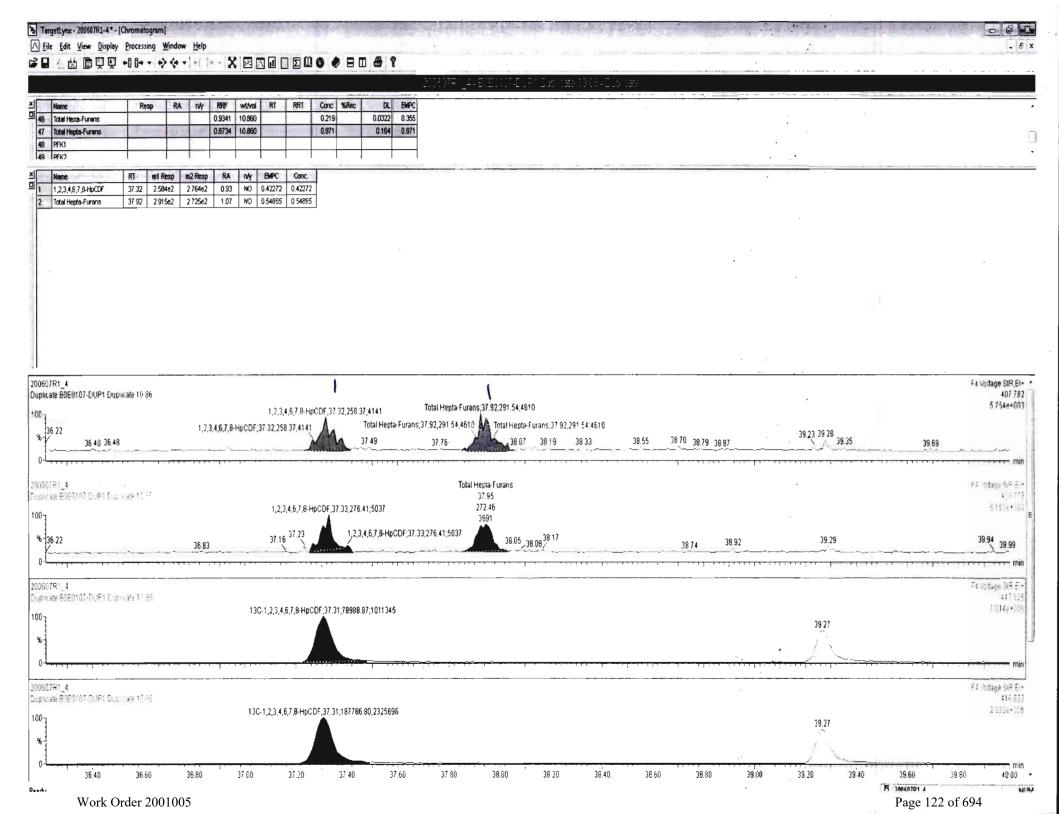




Page 120 of 694

Quantify Sam Vista Analytica		Page 24 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



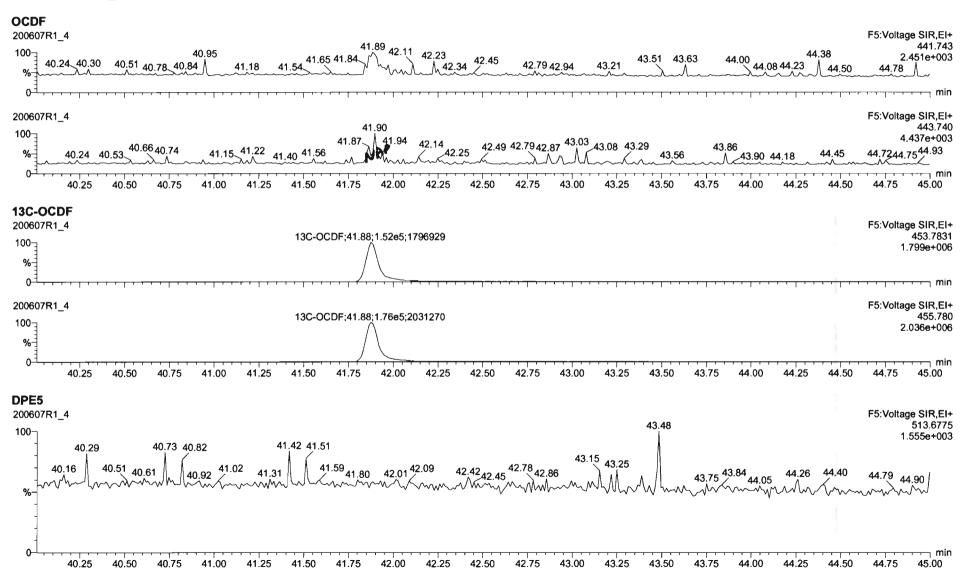


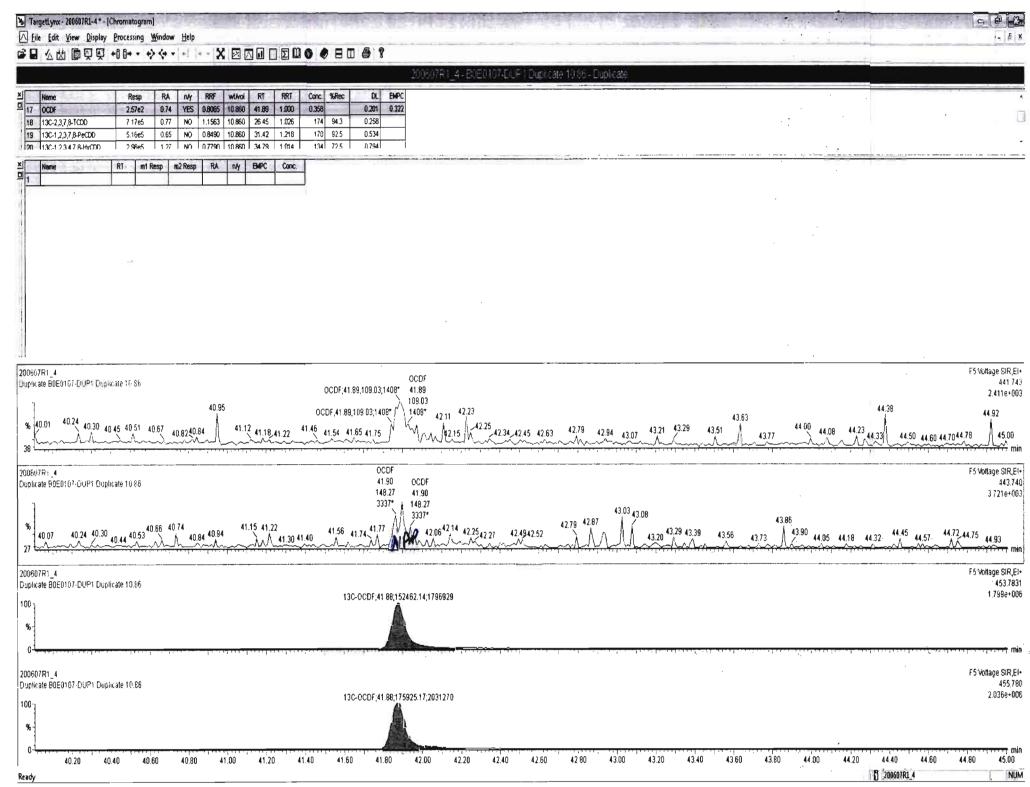
Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory Image: Comparison of Comparison of

Page 25 of 182

Dataset: Untitled

Last Altered:Monday, June 08, 2020 07:40:53 Pacific Daylight TimePrinted:Monday, June 08, 2020 07:43:34 Pacific Daylight Time





Page 124 of 694

Quantify Sam Vista Analytica		Page 26 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	
Name: 20060	7R1_4, Date: 07-Jun-2020, Time: 11:01:51, ID: B0E0107-DUP1 Duplicate 10.86, Description: Duplicate	
PFK1 200607R1_4 100 %	43;2.20e5;591625 21.48 21.65 22.0822.35 22.86 23.79;4.05e4;310006 24.66 24.78 24.85 25.27 25.91 26.02 26.20 26.69 27.08 27.	F1:Voltage SIR,EI- 47 27.97 316.9824 1.607e+006
0 ^{_1}	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
PFK2 200607R1_4 100 28.50		F2:Voltage SIR,EI- 32.18 32.37 366.9792 1:493e+006 32.25 32.50 min
PFK3 200607R1_4 10032.83;6.30	33.79	F3:Voltage SIR,EI 380.976 35.78 <u>6.3428</u> +00
0 ⁻¹ ,,	0 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 200607R1_4 100 36.48;3.84	Be5;1706711 36.91 37.34;6.94e4;665902 37.69 38.35 38.52 38.76 38.84 38.96 39.26	F4:Voltage SIR,EI+ 430.9728 4.516e+006
%		
0 ^{_1}		
	44.20 43.03;2.67e5;1338643 44.20 5.36e4	F5:Voltage SIR,EI+ 454.9728

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

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Quantify San Vista Analytica	al Laboratory MassLynx 4.1 SCN815	Page
Dataset:	U:\VG12.PRO\Results\200607R1\200607R1-5.qld	
Last Altered: Printed:	Monday, June 08, 2020 11:01:53 Pacific Daylight Time Monday, June 08, 2020 16:51:39 Pacific Daylight Time	ly 0608-2020
Method: U:\V	G12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45	C7 06/09/2020

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

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1 June Share	1 2,3,7,8-TCDD			NO	0.888	10.038 -	26.486		1.001				0.0739	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.038	31.457		1.001				0.0639	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.038	34.814		1.000				0.110	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.038	34.911		1.000				0.113	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.038	35.209		1.000				0.145	
6	6 1,2,3,4,6,7,8-HpCDD	1.14e3	1.32	YES	0.864	10.038	38.735	38.74	1.000	1.001	1.0369		0.306	0.913
7	7 OCDD	1.25e4	0.92	NO	0.914	10.038	41.727	41.74	1.000	1.000	14.832		0.345	14.8
8	8 2,3,7,8-TCDF			NO	0.751	10.038	25.596		1.001				0.0519	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.038	30.175		1.001				0.0581	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.038	31.161		1.001				0.0521	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.038	33.931		1.000				0.0573	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.038	34.058		1.000				0.0526	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.038	34.669		1.001				0.0597	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.038	35.550		1.000		1		0.0985	
15	15 1,2,3,4,6,7,8-HpCDF	6.49e2	0.85	YES	0.873	10.038	37.355	37.35	1.001	1.001	0.48922		0,137	0.442
16 1	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.038	39.278		1.000				0.148	
17	17 OCDF	3.69e2	0.80	NO	0.806	10.038	41.908	41.94	1.000	1.001	0.41968		0.167	0.420
18	18 13C-2,3,7,8-TCDD	7.86e5	0.80	NO	1.16	10.038	26.476	26.45	1.026	1.026	195.11	97.9	0.259	
19	19 13C-1,2,3,7,8-PeCDD	5.63e5	0.61	NO	0.849	10.038	31.656	31.43	1.227	1.219	190.30	95.5	0.579	
20	20 13C-1,2,3,4,7,8-HxCDD	3.39e5	1.28	NO	0.779	10.038	34.819	34.80	1.014	1.014	156.10	78.3	0.670	
21	21 13C-1,2,3,6,7,8-HxCDD	4.56e5	1.27	NO	1.02	10.038	34.932	34.91	1.017	1.017	160.82	80.7	0.513	
22	22 13C-1,2,3,7,8,9-HxCDD	3.65e5	1.28	NO	0.903	10.038	35.204	35.20	1.025	1.025	145.05	72.8	0.578	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.53e5	1.03	NO	0.689	10.038	38.726	38.72	1.128	1.128	131.71	66.1	0.714	
24	24 13C-OCDD	3.67e5	0.88	NO	0.652	10.038	41.748	41.73	1.216	1.215	201.72	50.6	0.723	
25	25 13C-2,3,7,8-TCDF	1.01e6	0.76	NO	1.06	10.038	25.519	25.57	0.989	0.991	187.01	93.9	0.384	
26	26 13C-1,2,3,7,8-PeCDF	8.39e5	1.59	NO	0.838	10.038	30.041	30.15	1.165	1.169	196.71	98.7	0.908	
27	27 13C-2,3,4,7,8-PeCDF	8.13e5	1.60	NO	0.817	10.038	30.993	31.13	1.202	1.207	195.59	98.2	0.932	
28	28 13C-1,2,3,4,7,8-HxCDF	4.56e5	0.50	NO	1.01	10.038	33.950	33.93	0.989	0.988	162.30	81.5	0.810	
29	29 13C-1,2,3,6,7,8-HxCDF	5.73e5	0.51	NO	1.17	10.038	34.074	34.05	0.992	0.992	176.27	88.5	0.700	
30	30 13C-2,3,4,6,7,8-HxCDF	4.82e5	0.51	NO	1.02	10.038	34.647	34.63	1.009	1.009	169.22	84.9	0.799	

Page 1 of 2

Quantify Sample Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory Data at the second s

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-5.qld

Last Altered: Monday, June 08, 2020 11:01:53 Pacific Daylight Time Printed: Monday, June 08, 2020 16:51:39 Pacific Daylight Time

Settler All	# Name	Resp	RA	n/y	RRF	wt/voi	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31 32	31 13C-1,2,3,7,8,9-HxCDF	3.63e5	0.50	NO	0.860	10.038	35.547	35.55	1.035	1.035	151.67	76.1	0.950	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.02e5	0.44	NO	0.774	10.038	37.295	37.32	1.086	1.087	140.10	70.3	0.621	1
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.08e5	0.41	NO	0.521	10.038	39.324	39.28	1.145	1.144	142.94	71.7	0.923	
34	34 13C-OCDF	4.35e5	0.86	NO	0.746	10.038	41.920	41.91	1.221	1.221	209.23	52.5	0.608	
35	35 37CI-2,3,7,8-TCDD	2.75e5			1.04	10.038	26.507	26.48	1.028	1.027	76.122	95.5	0.0802	
36	36 13C-1,2,3,4-TCDD	6.94e5	0.81	NO	1.00	10.038	25.890	25.80	1.000	1.000	199.25	100	0.299	ļ
35 36 37	37 13C-1,2,3,4-TCDF	1.01e6	0.79	NO	1.00	10.038	24.360	24.12	1.000	1.000	199.25	100	0.407	
38	38 13C-1,2,3,4,6,9-HxCDF	5.55e5	0.51	NO	1.00	10.038	34.420	34.33	1.000	1.000	199.25	100	0.816	
39	39 Total Tetra-Dioxins				0.888	10.038	24.620		0.000				0.0456	
10	40 Total Penta-Dioxins				0.908	10.038	29.960		0.000		0.00000		0.0269	0.0580
41	41 Total Hexa-Dioxins				0.892	10.038	33.635		0.000		0.00000		0.0695	0.428
42	42 Total Hepta-Dioxins				0.864	10.038	37.640		0.000		1.7355		0.308	2.65
43	43 Total Tetra-Furans				0.751	10.038	23.610		0.000				0.0229	
44	44 1st Func. Penta-Furans				0.893	10.038	27.580		0.000		0.00000		0.00742	0.221
43 44 45	45 Total Penta-Furans				0.893	10.038	29.275		0.000		0.00000		0.0258	0.0480
16	46 Total Hexa-Furans				0.934	10.038	33.555		0.000		0.15907		0.0303	0.357
17	47 Total Hepta-Furans				0.873	10.038	37.835		0.000		0.00000	_	0.0740	0.938

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-5.qld

Last Altered:	Monday, June 08, 2020 11:01:53 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:51:39 Pacific Daylight Time

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

Name: 200607R1_5, Date: 07-Jun-2020, Time: 11:48:04, ID: 2001005-02 PDI-164SC-A-01-02-200426 11.03, Description: PDI-164SC-A-01-02-200426

Tetra-Dioxins

Name	RT	m1 Height m2 Height	m1 Resp m2 Resp	RA n/y	Resp	Conce	EMPC
1942年 19							

Penta-Dioxins

1. 公共年118年	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
	Total Penta-Dioxins	29.57	1.251e3	2.759e3	5.759e1	1.386e2	0.42	YES	0.000e0	0.00000	0.058000	0.0269

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc:	EMPC	DL
the could	Total Hexa-Dioxins	33.30	5.469e3	5.079e3	2.677e2	2.643e2	1.01	YES	0.000e0	0.00000	0.27900	0.127
2	Total Hexa-Dioxins	34.13	5.608e3	2.161e3	2.358e2	1.151e2	2.05	YES	0.000e0	0.00000	0.14900	0.127

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL.
化基本出版制	Total Hepta-Dioxins	37.71	1.263e4	1.252e4	9.231e2	9.806e2	0.94	NO	1.904e3	1.7355	1.7350	0.308
2	1,2,3,4,6,7,8-HpCDD	38.74	8.301e3	8.845e3	6.467e2	4.908e2	1.32 Y	/ES	1.137e3	0.00000	0.91300	0.308

Tetra-Furans

Name	RT	m1 Height m2 Height	m1 Resp m	2 Resp	RA n/y	Resp	Conc.	EMPC	DL

Penta-Furans function 1

Paterna Terra	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA n/y	Resp	Conc.	EMPC	DL
	1st Func. Penta-Furans	27.58	1.082e4	5.126e3	5.818e2	3.202e2	1.82 YES	0.000e0	0.00000	0.22100	0.0226

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-5.qld

Last Altered:	Monday, June 08, 2020 11:01:53 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:51:39 Pacific Daylight Time

Name: 200607R1_5, Date: 07-Jun-2020, Time: 11:48:04, ID: 2001005-02 PDI-164SC-A-01-02-200426 11.03, Description: PDI-164SC-A-01-02-200426

Penta-Furans

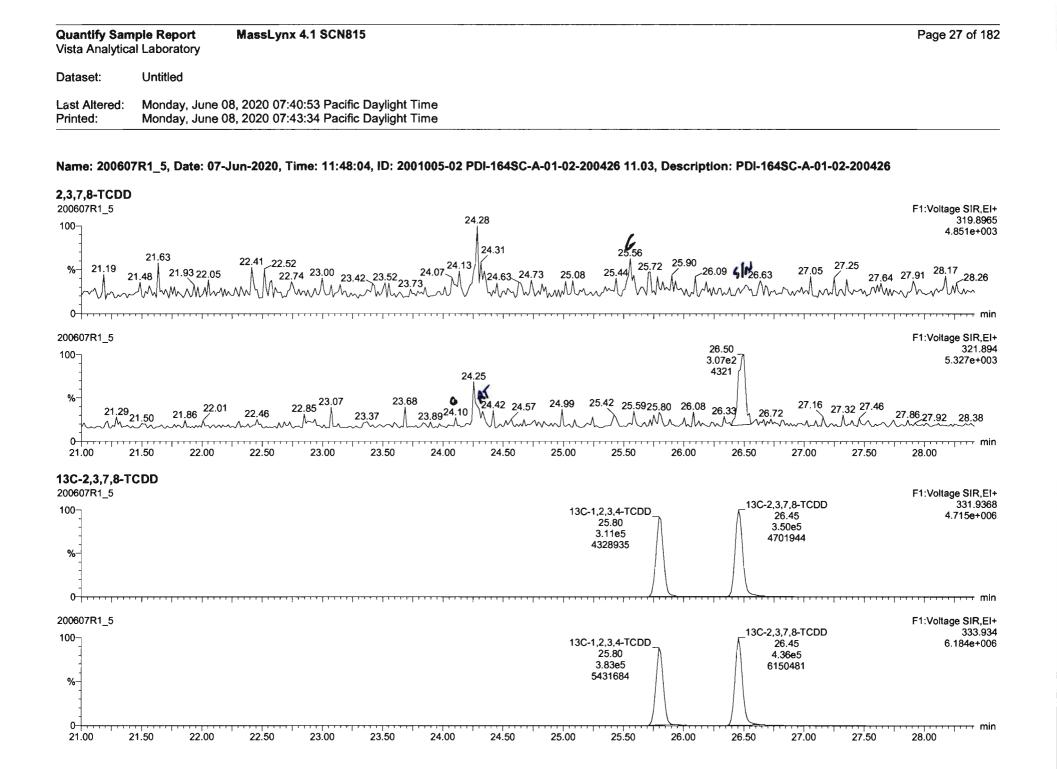
Name	RT	m1 Height	m2 Height	m1-Resp.	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Penta-	Furans 29.18	2.637e3	2.673e3	1.075e2	9.420e1	1.14	YES	0.000e0	0.00000	0.048000	0.0258

Hexa-Furans

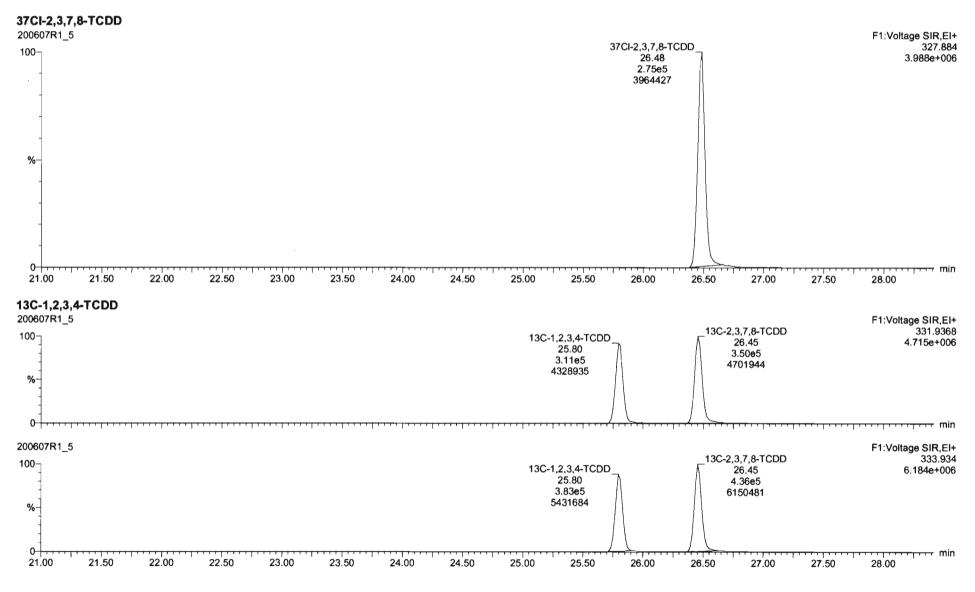
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp.	Conc.	EMPC	DL
1 Total Hexa-Furans	32.93	5.252e3	2.989e3	1.814e2	1.681e2	1.08	NO	3.495e2	0.15907	0.15900	0.0303
2 Total Hexa-Furans	33.47	5.701e3	4.120e3	3.076e2	1.945e2	1.58	YES	0.000e0	0.00000	0.19800	0.0303

Hepta-Furans

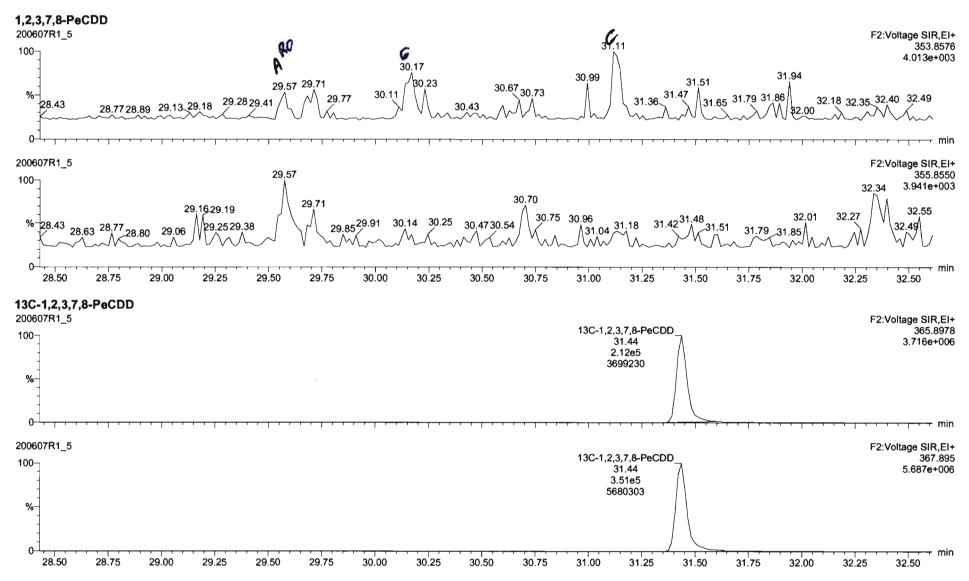
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp.	Conc-	EMPC	DL
1,2,3,4,6,7,8-HpCDF	37.35	4.158e3	6.312e3	2.985e2	3.500e2	0.85	YES	6.485e2	0.00000	0.44200	0.137
2 Total Hepta-Furans	37.95	5.031e3	4.824e3	2.831e2	3.546e2	0.80	YES	0.000e0	0.00000	0.49700	0.151

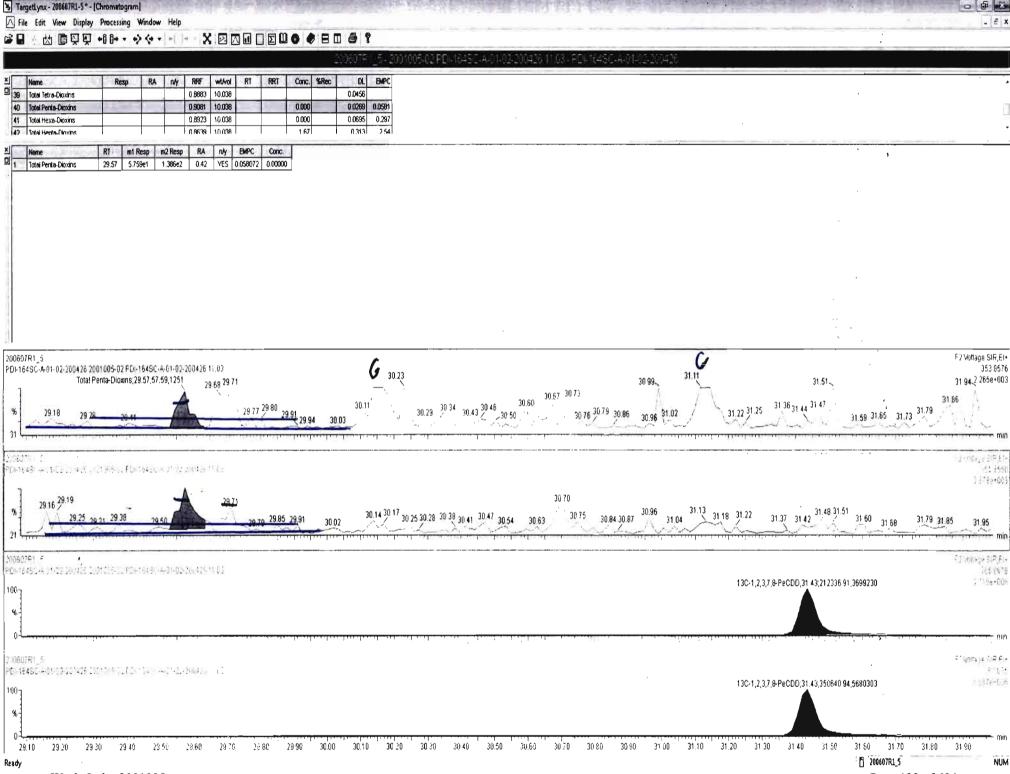


Quantify Sam Vista Analytica		Page 28 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



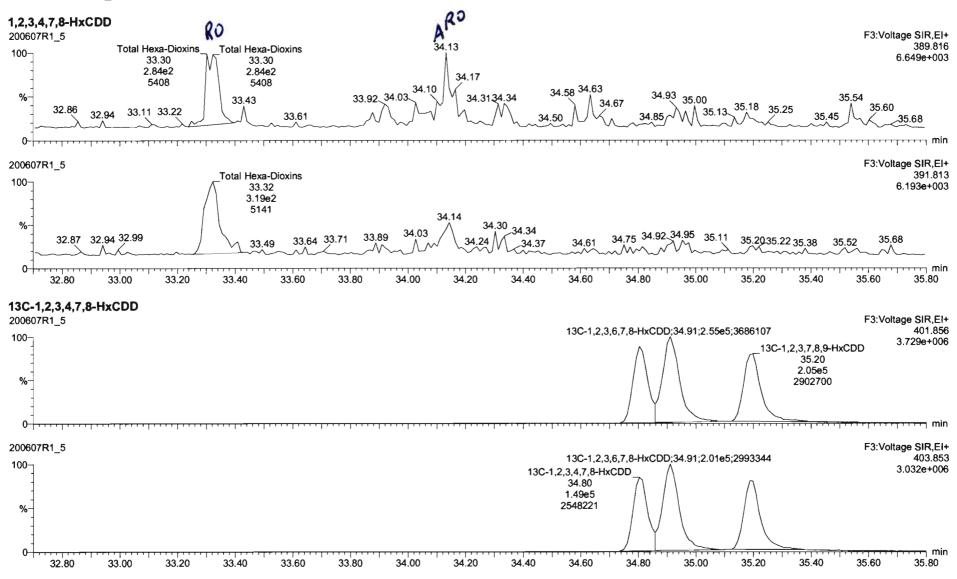
Quantify Sam Vista Analytica		Page 29 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

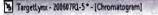




Page 133 of 694

Quantify Sam Vista Analytica		Page 30 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



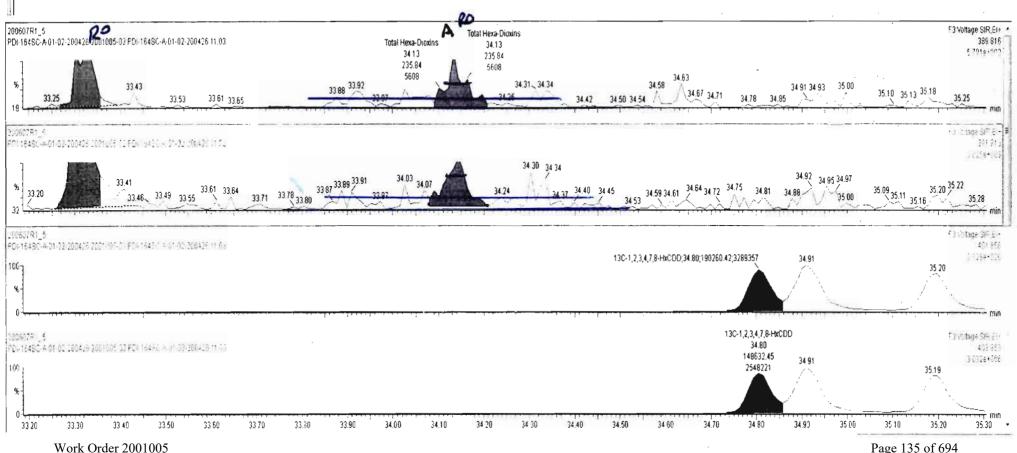


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20	Name	Resp	RA	nty	RRF	WINOI	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8883	10.038	-	1-1-1	_		0.0456	
40	Total Penta-Dioxins		1.1	11	0.9081	10.038	-		0 000		0.0269	0.0581
41	Total Hexa-Dioxins				0.8923	10.038		10.00	0.000		0.0695	0.428
47	Total Henta-Dinvins				0.8639	10.038			1 67		N 313	2.54

×		Name	RI	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.	
	1	Total Hexa-Dioxins	33.30	2.677e2	2.643e2	1,01	YES	0.27936	0.00000	
1	2	Totel Hexe-Dioxins	34.13	2.358e2	1 151e2	2.05	YES	0.14898	0 00000 0	

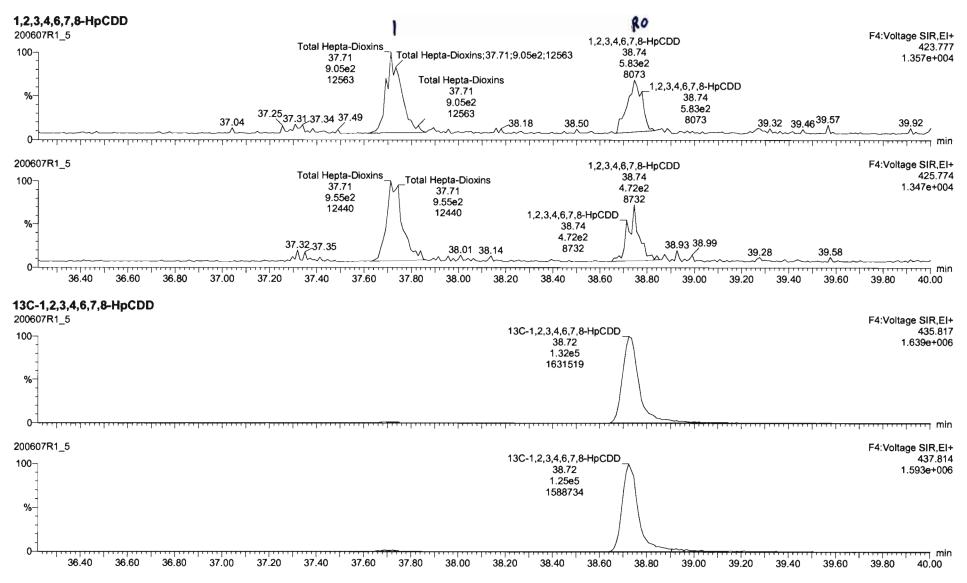


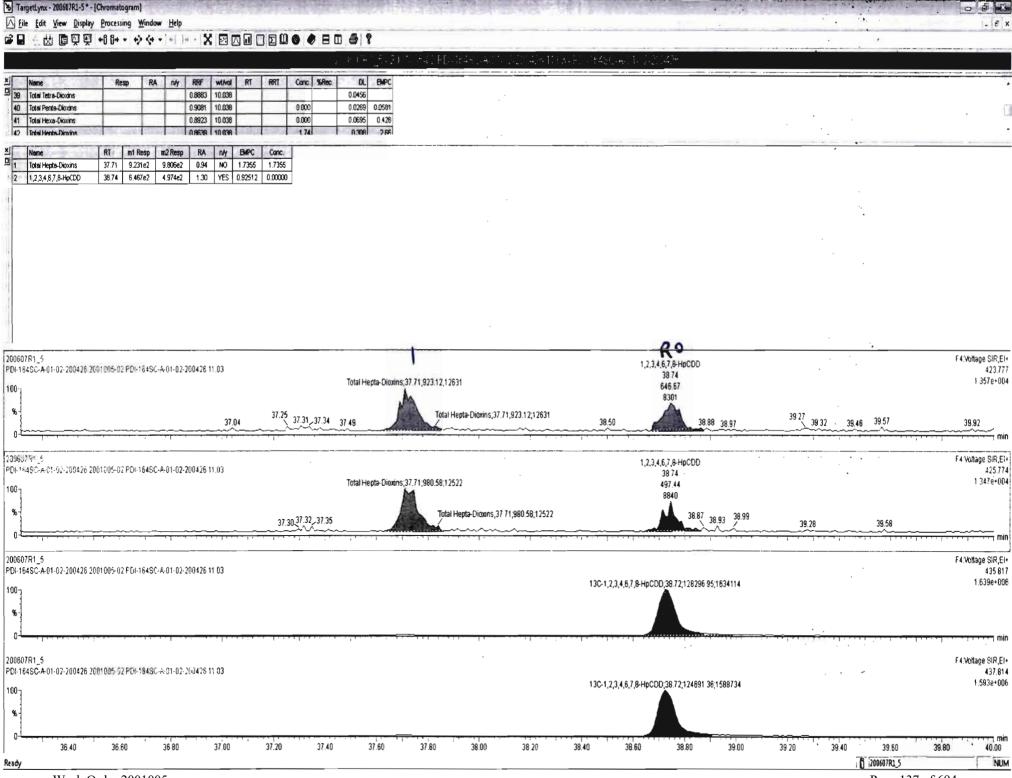
Page 135 of 694

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- 6 x

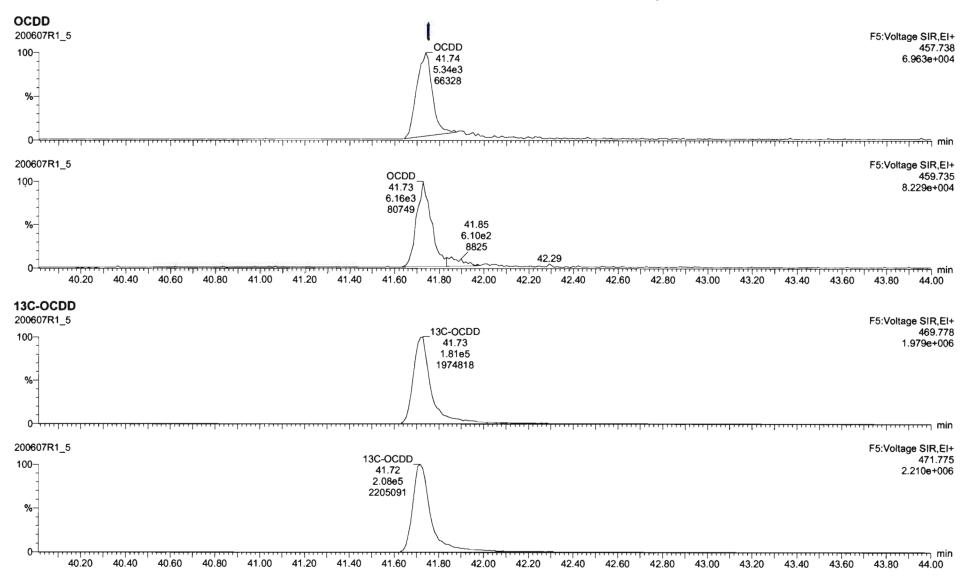
Quantify Sam Vista Analytica		Page 31 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	





Page 137 of 694

Quantify San Vista Analytica		Page 32 of 182
Dataset:	Untitled	
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ð	Targetlynx -	20060781-5*	[Chromatogram]	
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0607R1 / 5+ 2001005-02 PDI4164SC+A+01-02-201426 11:03 - PDI+164SC+A+01+02-200426

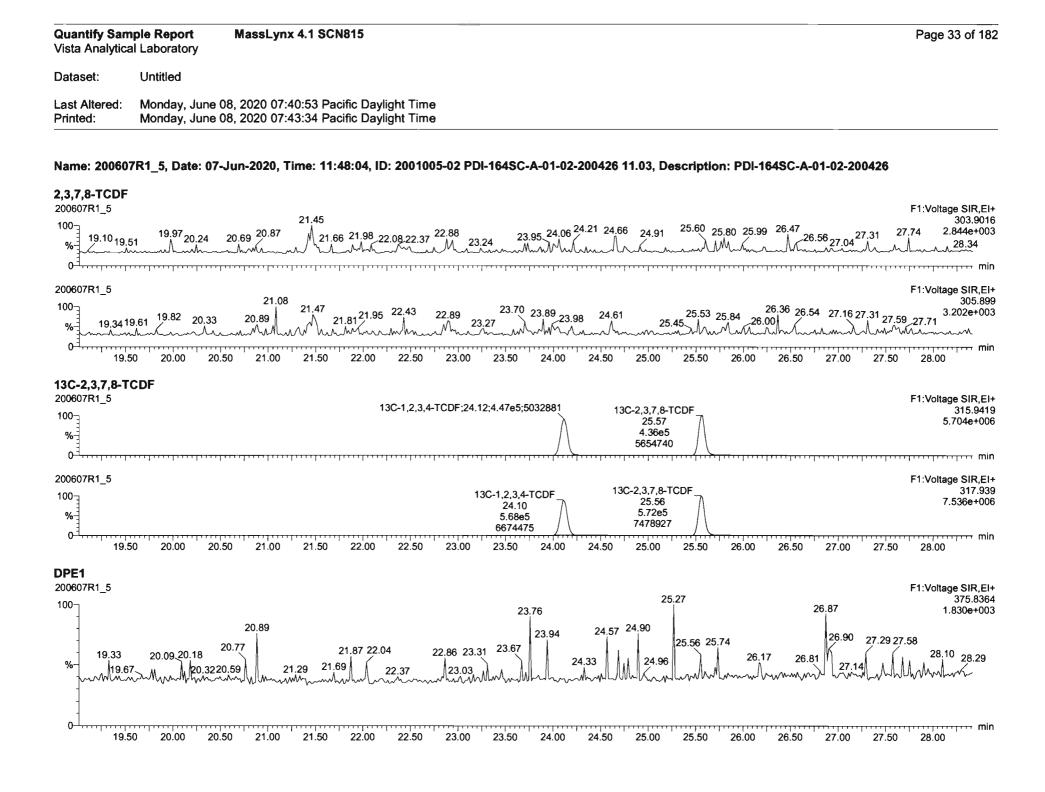
		- PDI-1645C-A-01-02-200426	the the the second second	
Name Resp RA n/y RRF wt/vol RT RF / 0CDD 125w4 0.92 NO 0.9136 10.038 41.74 1.0				
	0.0519		•	
2,3,7,8-TCDF NO 0.7510 10.038 1,2,3,7,8-PeCDF NO 0.8925 10.038	0.0581			
NO 0.9347 8-PeCDE NO 0.9348 10.038	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · ·		
Name RT. int Resp in 2 Resp RA INV BMPC C	nc.			
1607R1_5 +164SC-A-01-02-200426-2001005-02 FDF184SC-A-01-02-200426-11-03	OCDD,41.74;5996.31,68641	;· · ·;· · ·		F5 ¥oltage \$∥∓ 457 6 963e+
1944	OCDD,41.73;6481.51;81014			n
Land and the second sec	41.90 42.29			
607747, 5 16254-01-01-200426200:005-0290-16450, 401-02004257705 01	13C-OCDD;41 73,171266.08;1972629		· · ·	Pstickage DR 469 1 GrSen
			· · · · · · · · · · · · · · · · · · ·	
507R) <u>1</u> 1964S14-01422-00428-0001005-02 PDF 1945F-4-01-02:000436-11-03			n galan ta baran da	44 (0.5% 308) 573
L	13C-OCDC,41 72,195364 69;2204997			2.21064

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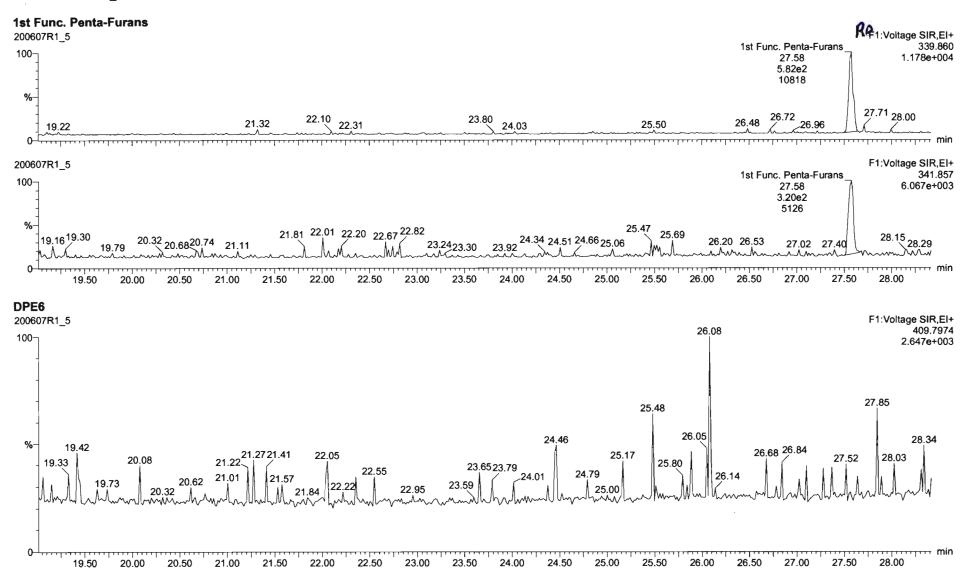
Page 139 of 694

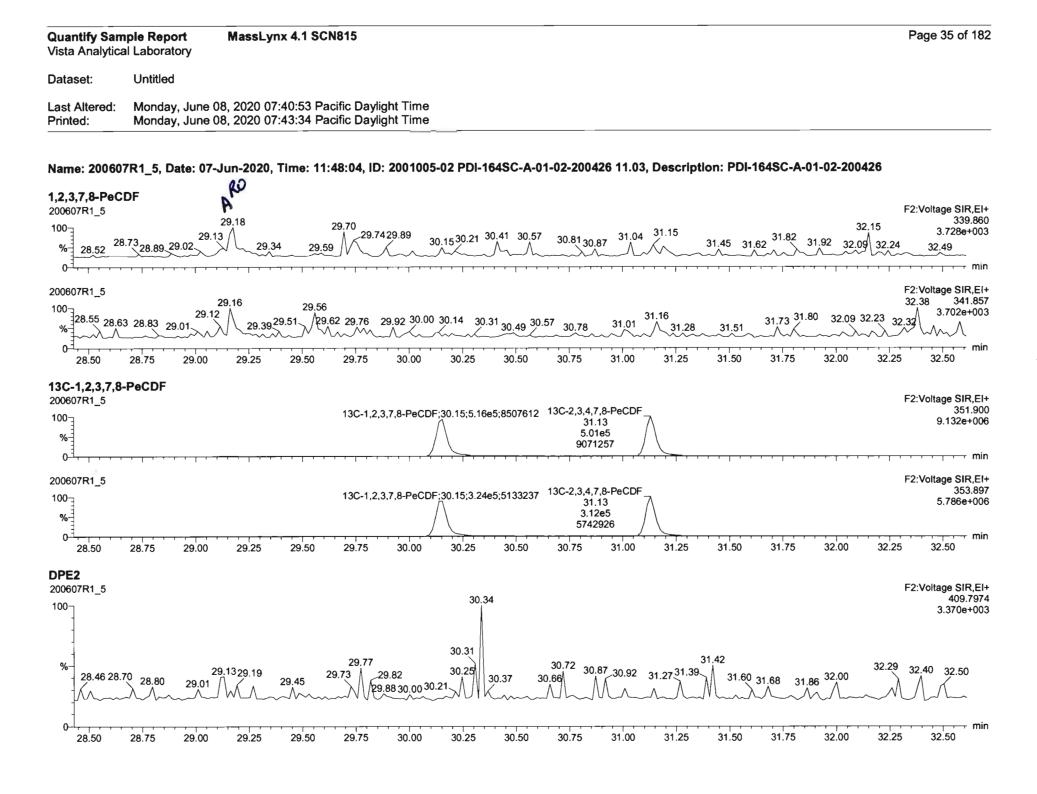
5 @ X

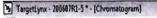
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Quantify San Vista Analytica		Page 34 of 182
Dataset:	Untitled	
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Name

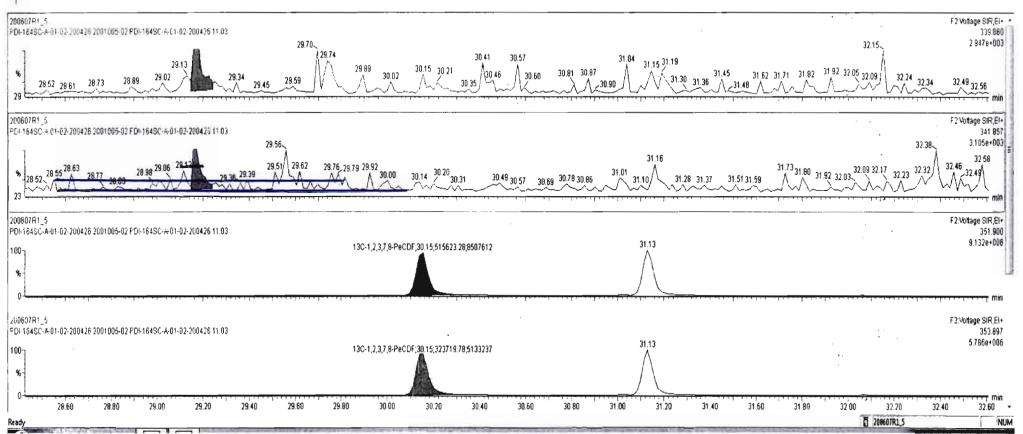
Total Penta-Furans

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_								_	69.0			45C-A-01-02-20042611103-FDA-H45C-4-01-02-200425
2	Resp	RA	NY	RRF	wthol	RT	RRT	Conc. %	Rec	DL	EMPC	
				0.7510	10.038		10.		(.0229		
				0.8925	10.038		1.1	0.000	0.	00742	0.221	
	1.5			0.8925	10.038	-	200	0.000	(.0258	0.0478	
1			1 1	n 9341	10.038		1	1	1 1	10303		
RT	mi	Resp	n2 Resp	RA	Ny	EMPC	Conc.	1				
29.	.18 1.0	75e2	9.420e1	1.14	YES	0.047762	0.00000	1				





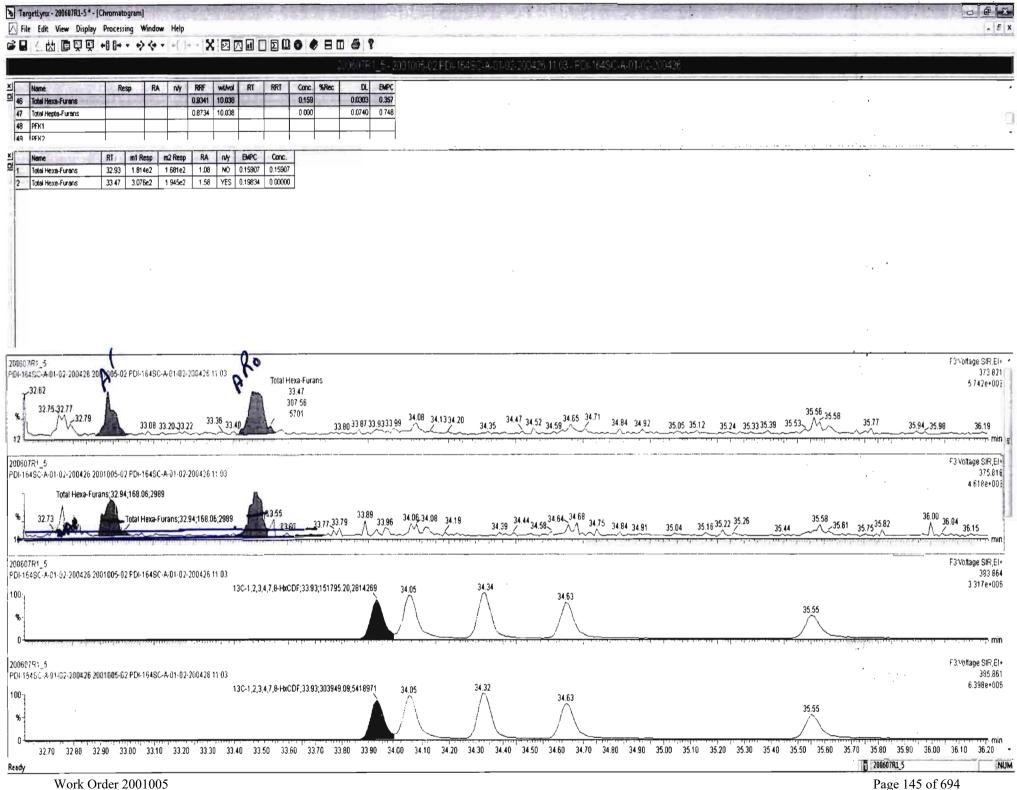
Work Order 2001005

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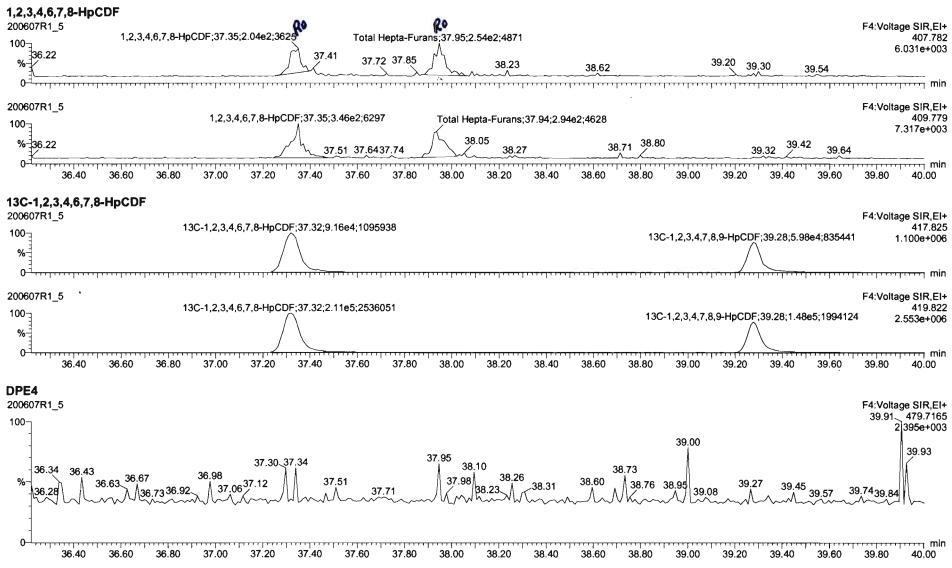
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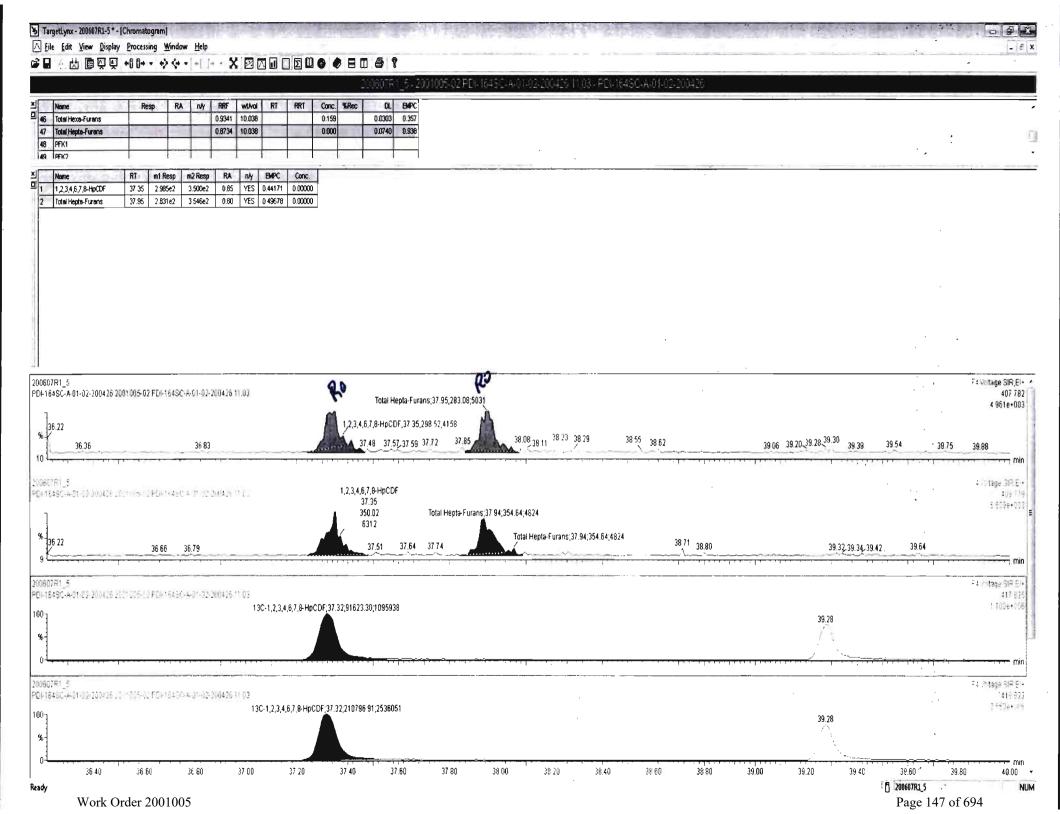
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Untitled															
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CDF 1 32.93 33.0	3 33.22	33.47 3.08e2 5701	33.47 3.08e2 5701	33.87	33.99 34	4.08	14.35 34.47	34.52 34.65	34.84	34.92	35.12 35.2	4 ^{35.39} 35.5	35.56 35.61		ltage SIR,I 373.8 6.846e+0 35.94
32.94 .82 .33.06	33.11	33.40	48 33.55	33.79 ^{33.}	89 34.	0634.08 34.	19 34.39	34.64, 34.68	34.75	4.84	35.16 35.22	_35.26	35.58 35.61		ltage SIR, 375.8 5.206e+0
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	
	13C-1,2,3	3,4,7,8-HxCI	DF;33.93;1.52	2e5;281426	59 13C-1,2	2,3,4,6,9-Hx	CDF;34.34;1	.88e5;3267995	13C-1,2	2,3,7,8,9-1	1xCDF;35.55;	1.21e5;1662	516	F3.V0	383.8 3.317e+(
	13C-1,2,3	3,4,7,8-HxCI	DF;33.93;3.04	le5;541897	71 13C-1,2	,3,4,6,9-HxC	:DF;34.32;3	67e5;6276085	13C-1,2	2,3,7,8,9-F	lxCDF;35.55;	2.42e5;3353	438	F3:Vo	Itage SIR, 385. 6.398e+
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	
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3 2.83 32.97	33.20 3.13 33.21 33.22	33.41 2 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	33.63 33.68 33.53	33.82.	33.86 ³	4.09.34.12	34.43 34.39	47 34.56 34 34.67		.85 35.01	35.10 35	.27 35.30 35.34	35.60 35.55	5.75 A 35	
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33.40 33.40 33.00 33.20 33.40 33.40 33.00 33.20 33.40 33.40 33.00 33.20 33.40 33.40 33.00 33.20 33.40 33.40 33.00 33.20 33.40 33.40 33.40 33.40 33.40 33.40 33.00 33.20 33.40 33.40 33.40 33.00 33.20 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40 33.40	Laboratory Untitled Monday, June 08, 2020 07:40:53 Pacific D Monday, June 08, 2020 07:43:34 Pacific D 7R1_5, Date: 07-Jun-2020, Time: 11:48:04 CDF 32.93 33.08 33.22 33.47 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 5701 3.08e2 3.08e2 5701 3.08e2 3.08e2 5701 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 3.08e2 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3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2 3.06e2	Laboratory Untitled Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time R1_5, Date: 07-Jun-2020, Time: 11:48:04, ID: 2001005-02 PDI-164SC-A-01-02-200426 11.03, Description: PDI-164SC-A-01-02-200426 CDF 33,47 33,47 33,47 33,47 33,47 33,47 33,47 33,48 33,49 33,47 33,48 33,48 33,48 33,48 33,48 33,48 33,48 33,48 33,49 33,48 33,48 33,48 33,40 33,48 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 33,40 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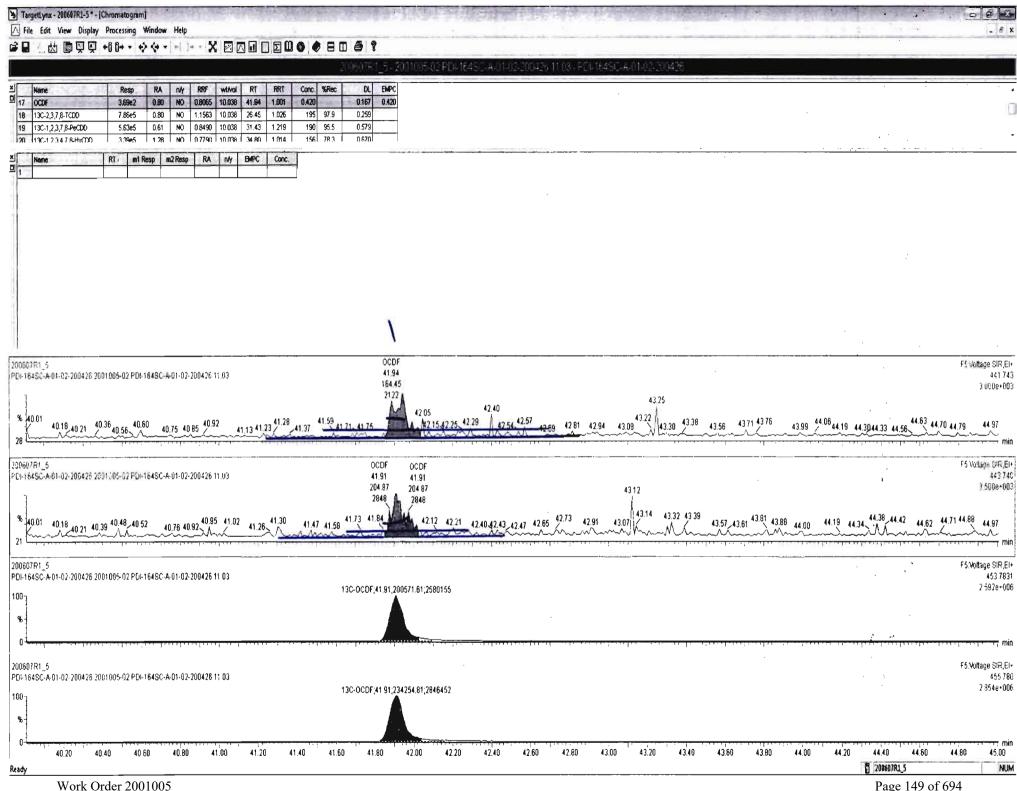


Quantify Sam Vista Analytica		Page 37 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	
Name: 20060	7R1_5, Date: 07-Jun-2020, Time: 11:48:04, ID: 2001005-02 PDI-164SC-A-01-02-200426 11.03, Description: PDI-164S	SC-A-01-02-200426





antify Sam ta Analytica		Page 38 of
taset:	Intitled	
st Altered: nted:	Aonday, June 08, 2020 07:40:53 Pacific Daylight Time Aonday, June 08, 2020 07:43:34 Pacific Daylight Time	
me: 200607	1_5, Date: 07-Jun-2020, Time: 11:48:04, ID: 2001005-02 PDI-164SC-A-01-02-200426 11.03, Description: PDI-164SC	-A-01-02-200426
DF 0607R1_5	1	F5:Voltage SIR
0-	41.89 41.94 43.25 40.36 40.60 40.85 40.92 41.23 41.28 41.71 41.75 42.05 42.29 42.40 42.57 42.81 43.22 43.30 43.56 43.71 43.50	441 3.100e-
)- 1	***************************************	F5:Voltage SIF
0 40.18	41.91 40.48.40.52 40.92 ^{40.95} 41.26 ^{41.30} 41.47 41.84 41.88 41.97 42.21 41.84 41.97 42.21 42.43 42.65 42.91 43.32 43.39 ^{43.57} 43.88	44.00 44.34 44.34 44.38 44.42 44.62 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.92 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94 44.94
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) 6	13C-OCDF;41.91;2.10e5;2585005	453. 2.592 e
)	***************************************	F5:Voltage SI
0 	13C-OCDF;41.91;2.46e5;2847527	455 2.854e
0 ⁻¹	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.
PE5 0607R1 5		F5:Voltage SIF
0 40	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	513. 1.402 e
40.17	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4.02 44.25 44.30 44.66 44.73 44.83
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Page 149 of 694

Vista Analytica	a ple Report Al Laboratory	MassLynx 4.1 SCN8	115					Page 39 of 18
Dataset:	Untitled							
_ast Altered: Printed:		08, 2020 07:40:53 Pacif 08, 2020 07:43:34 Pacif						
Name: 20060	7R1_5, Date: 07	-Jun-2020, Time: 11:48	3:04, ID: 2001005-02 PI	DI-164SC-A-01-02-20)0426 11.03, Desc	ription: PDI-164	SC-A-01-02-2004	426
PFK1 200607R1_5			22.64		24.20 25.17	26.63;1.84e4;2 1	8932	F1:Voltage SIR,EI
100 19.58;1.11	le4;188732 20.27	20.66 21.14 21.32 21.41 2	2.05 22.4322.49 22.64 23.	16 23.68 24.21	24.39 24.97 25.17		27.1427.58	;7.06e3;109699 316.982
0 ⁻¹	50 20.00 20	0.50 21.00 21.50	22.00 22.50 23.00	23.50 24.00	24.50 25.00 2	25.50 26.00 2	26.50 27.00	27.50 28.00
2 FK2 00607R1_5 100 ₇ 28.75;*	1.51e5;579461	29.25 29.34 29.42 29.6	529.77 29.89 30.02 30.25	30.37 30.66 30.7	79 31.04 31.22 3	1.30 ^{31.39} 31.57 3	31.76 31.97 3	F2:Voltage SIR,EI 2.17 32.34 366.979 1.380e+00
× 28.51					~			
28.50								
	28.75 29.00	29.25 29.50	29.75 30.00 30.2	5 30.50 30.75	31.00 31.2	25 31.50 3	1.75 32.00	32.25 32.50
PFK3 200607R1_5	28.75 29.00 8e5;2573647	29.25 29.50 33.36 33.44	29.75 30.00 30.2 34.05;8.62e4;8		31.00 31.2 Be4;511395 34.74		1.75 32.00 35.3635.45 35.	32.25 32.50 F3:Voltage SIR,EI
FK3 00607R1_5 00- 32.84;5.2 %	8e5;2573647	33.36 33.44	34.05;8.62e4;8	107075 34.24 34.56;2.78	864;511395 34.74	35.06	35.3635.45 35.	32.25 32.50 F3:Voltage SIR,EI 61 35.91 380.976 5.551e+000
PFK3 00607R1_5 32.84;5.2 32.62 % 	8e5;2573647	22.26	34.05;8.62e4;8					32.25 32.50 F3:Voltage SIR,EI 61 35.91 380.976 5.551e+000
PFK3 100-32.84;5.2 32.62 32.62 32.62 32.8 PFK4 100607R1_5 3000 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6 32.6	8e5;2573647	^{33.36} 33.44 33.20 33.40 33.60 ³ 36.88	34.05;8.62e4;8	107075 34.24 34.56;2.78	Be4;511395 34.74 34.60 34.80	35.06	35.3635.45 35. 35.40 35.6	32.25 32.50 F3:Voltage SIR,EI 61 35.91 380.976 5.551e+000
PFK3 00607R1_5 100- 32.84;5.2 32.62 0 0 32.62 0 32.8 5.2 32.62 0 5.2 5.2 32.8 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	8e5;2573647 30 33.00 6.41;3.91e5;189354	^{33.36} 33.44 33.20 33.40 33.60 ³ 36.88 37.18 3	34.05;8.62e4;8	34.20 34.40 38.15 38.24 38.15 38.24 38.15 38.24	Be4;511395 34.74 34.60 34.80 8.40 38.71	35.06 35.00 35.20 38.96 39.20	35.3635.45 35. 35.40 35.6 39.44	32.25 32.50 F3:Voltage SIR,EI 61 35.91 380.976 5.551e+00 50 35.80 36.00 F4:Voltage SIR,EI 39.63 39.78 430.972
PFK3 100-32.84;5.2 32.62 32.62 32.62 32.62 9 57FK4 100 57FK4 100 57FK4	8e5;2573647 30 33.00 6.41;3.91e5;189354 0 36.60 36.7	^{33.36} 33.44 33.20 33.40 33.60 ³ 36.88 37.18 3	34.05;8.62e4;8 33.80 34.00 33.80 34.00 37.39 37.67 37.40 37.60 37.80	007075 34.24 34.56;2.78 34.20 34.40 38.15 38.24 38.00 38.20 3	Be4;511395 34.74 34.60 34.80 8.40 38.71	35.06 35.00 35.20 38.96 39.20	35.3635.45 35. 35.40 35.6 35.40 35.6 39.44 .20 39.40 30	32.25 32.50 F3:Voltage SIR,EI 61 35.91 380.976 5.551e+00 50 35.80 36.00 F4:Voltage SIR,EI 39.63 39.78 430.972 39.63 39.78 3.887e+00

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Quantify Sam Vista Analytica	ple Summary Report MassLynx 4.1 SCN815			Page 1 of 2
Dataset:	U:\VG12.PRO\Results\200607R1\200607R1-6.qld			
Last Altered: Printed:	Monday, June 08, 2020 11:44:28 Pacific Daylight Time Monday, June 08, 2020 16:43:25 Pacific Daylight Time	Jy	06-08-2020	C1 06/09/2020

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

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL-T	EMPC
the second	1 2,3,7,8-TCDD			NO	0.888	10.013 <	26.486		1.001				0.0680	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.013	31.457		1.001				0.0934	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.013	34.825		1.000				0.0849	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.013	34.921		1.000				0.0862	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.013	35.209		1.000				0.104	
6	6 1,2,3,4,6,7,8-HpCDD	1.06e3	1.18	NO	0.864	10.013	38.736	38.77	1.000	1.001	0.83927		0.245	0.839
7	7 OCDD	1.05e4	0.94	NO	0.914	10.013	41.706	41.73	1.000	1.000	9.9458		0.290	9.95
8	8 2,3,7,8-TCDF			NO	0.751	10.013	25.597		1.001				0.0423	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.013	30.175		1.001				0.0430	
10 10	0 2,3,4,7,8-PeCDF			NO	0.935	10.013	31.161		1.001				0.0389	
11	1 1,2,3,4,7,8-HxCDF			NO	0.884	10.013	33.931		1.000				0.0618	
12 1	2 1,2,3,6,7,8-HxCDF			NO	0.889	10.013	34.069		1.000				0.0558	
13 13	3 2,3,4,6,7,8-HxCDF			NO	0.934	10.013	34.679		1.001				0.0615	
网络新闻的 14	4 1,2,3,7,8,9-HxCDF			NO	0.871	10.013	35.561		1.000				0.0964	
15 1	5 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.013	37.355		1.001				0.0686	
16 16	6 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.013	39.278		1.000				0.0736	
17	7 OCDF			NO	0.806	10.013	41.908		1.000				0.114	
18 18	8 13C-2,3,7,8-TCDD	8.18e5	0.75	NO	1.16	10.013	26.491	26.45	1.026	1.025	196.82	98.5	0.322	
19	9 13C-1,2,3,7,8-PeCDD	5.80e5	0.63	NO	0.849	10.013	31.674	31.43	1.227	1.218	190.29	95.3	0.483	
20 20	0 13C-1,2,3,4,7,8-HxCDD	3.85e5	1.34	NO	0.779	10.013	34.819	34.81	1.014	1.014	172.42	86.3	0.830	
21 2'	1 13C-1,2,3,6,7,8-HxCDD	4.94e5	1.24	NO	1.02	10.013	34.932	34.92	1.017	1.017	169.54	84.9	0.636	
22 22	2 13C-1,2,3,7,8,9-HxCDD	4.27e5	1.28	NO	0.903	10.013	35.204	35.20	1.025	1.025	164.85	82.5	0.716	
23 23	3 13C-1,2,3,4,6,7,8-HpCDD	2.92e5	1.04	NO	0.689	10.013	38.726	38.72	1.128	1.128	147.71	74.0	0.565	
24 24	4 13C-OCDD	4.63e5	0.90	NO	0.652	10.013	41.748	41.71	1.216	1.215	247.85	62.0	0.599	
25 25	5 13C-2,3,7,8-TCDF	1.04e6	0.76	NO	1.06	10.013	25.534	25.57	0.989	0.991	185.06	92.7	0.356	
25 26	6 13C-1,2,3,7,8-PeCDF	8.79e5	1.58	NO	0.838	10.013	30.058	30.15	1.165	1.168	197.16	98.7	0.497	
27 27	7 13C-2,3,4,7,8-PeCDF	8.56e5	1.57	NO	0.817	10.013	31.011	31.13	1.202	1.206	197.10	98.7	0.510	
	8 13C-1,2,3,4,7,8-HxCDF	4.80e5	0.50	NO	1.01	10.013	33.950	33.93	0.989	0.988	166.03	83.1	0.645	
	9 13C-1,2,3,6,7,8-HxCDF	5.99e5	0.50	NO	1.17	10.013	34.074	34.06	0.992	0.992	178.99	89.6	0.557	
30 31 30	0 13C-2,3,4,6,7,8-HxCDF	5.07e5	0.49	NO	1.02	10.013	34.647	34.64	1.009	1.009	172.99	86.6	0.636	

Quantify Sam Vista Analytica	ple Summary Report Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\20	0607R1\200607R1-6.qld	
Last Altered: Printed:		1:44:28 Pacific Daylight Time 6:43:25 Pacific Daylight Time	

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2210 203	# Name	Resp	RA.	ny	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	har an a Different	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	4.17e5	0.50	NO	0.860	10.013	35.547	35.56	1.035	1.036	169.40	84.8	0.756	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.37e5	0.43	NO	0.774	10.013	37.295	37.32	1.086	1.087	151.65	75.9	0.488	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.39e5	0.41	NO	0.521	10.013	39.324	39.28	1.145	1.144	159.76	80.0	0.726	
34	34 13C-OCDF	5.46e5	0.88	NO	0.746	10.013	41.920	41.91	1.221	1.221	255.30	63.9	0.611	
35	35 37CI-2,3,7,8-TCDD	3.17e5			1.04	10.013	26.522	26.48	1.028	1.026	85.093	107	0.174	
36	36 13C-1,2,3,4-TCDD	7.18e5	0.79	NO	1.00	10.013	25.890	25.81	1.000	1.000	199.73	100	0.372	
36 37	37 13C-1,2,3,4-TCDF	1.06e6	0.78	NO	1.00	10.013	24.360	24.12	1.000	1.000	199.73	100	0.377	
38	38 13C-1,2,3,4,6,9-HxCDF	5.73e5	0.50	NO	1.00	10.013	34.420	34.33	1.000	1.000	199.73	100	0.649	
39	39 Total Tetra-Dioxins				0.888	10.013	24.620		0.000				0.0393	
40	40 Total Penta-Dioxins				0.908	10.013	29.960		0.000				0.0475	
41	41 Total Hexa-Dioxins				0.892	10.013	33.635		0.000		0.00000		0.0538	0.500
42	42 Total Hepta-Dioxins				0.864	10.013	37.640		0.000		2.2350		0.245	2.23
43	43 Total Tetra-Furans				0.751	10.013	23.610		0.000				0.0185	
44	44 1st Func. Penta-Furans				0.893	10.013	27.580		0.000		0.00000		0.00904	0.123
45	45 Total Penta-Furans				0.893	10.013	29.275		0.000				0.0203	
46	46 Total Hexa-Furans				0.934	10.013	33.555		0.000		0.00000		0.0267	0.230
the state of	47 Total Hepta-Furans				0.873	10.013	37.835		0.000				0.0318	

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-6.qld

Last Altered:	Monday, June 08, 2020 11:44:28 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:43:25 Pacific Daylight Time

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

Name: 200607R1_6, Date: 07-Jun-2020, Time: 12:34:16, ID: 2001005-03 PDI-164SC-A-02-03-200426 11.1, Description: PDI-164SC-A-02-03-200426

Tetra-Dioxins

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

Penta-Dioxins

Name	RT	m1 Height m2 Height	m1 Resp m2 Resp	RA n/	yResp	Conc.	EMPC	DL
1、管理局常语								

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	33.32	9.448e3	4.939e3	4.779e2	2.881e2	1.66	YES	0.000e0	0.00000	0.33200	0.0955
2 Total Hexa-Dioxins	34.13	3.666e3	2.976e3	2.129e2	1.464e2	1.45	YES	0.000e0	0.00000	0.16900	0.0955

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
	Total Hepta-Dioxins	37.73	1.116e4	1.203e4	9.260e2	8.362e2	1.11	NO	1.762e3	1.3957	1.3960	0.245
2	1,2,3,4,6,7,8-HpCDD	38.77	7.269e3	6.996e3	5.742e2	4.854e2	1.18	NO	1.060e3	0.83927	0.83900	0.245

Tetra-Furans

Name	RT	m1 Height m2 Height	m1 Resp. m2 Resp.	RA ny	Resp	- Conc.	EMPC	DL
T FARTER TO THE								

Penta-Furans function 1

Construction of the second	Name	IRT	m1 Height m	n2 Height	mi Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	D
1.4487 2388	1st Func. Penta-Furans	27.58	4.014e3	4.962e3	2.893e2	2.723e2	1.06	YES	0.000e0	0.00000	0.12300	0.0228

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-6.qld

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Printed:	Monday, June 08, 2020 16:43:25 Pacific Daylight Time

Name: 200607R1_6, Date: 07-Jun-2020, Time: 12:34:16, ID: 2001005-03 PDI-164SC-A-02-03-200426 11.1, Description: PDI-164SC-A-02-03-200426

Penta-Furans

Name	RTC	m1 Height m2 Height	m1;Resp	m2 Resp	RA n/y	Resp	Gonc.	EMPO
1 - Minister Parks								

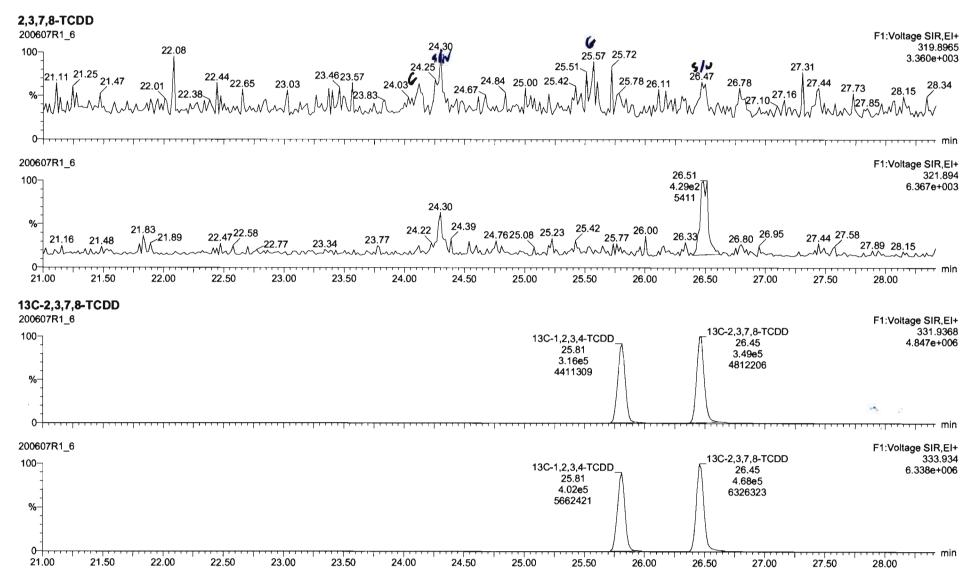
Hexa-Furans

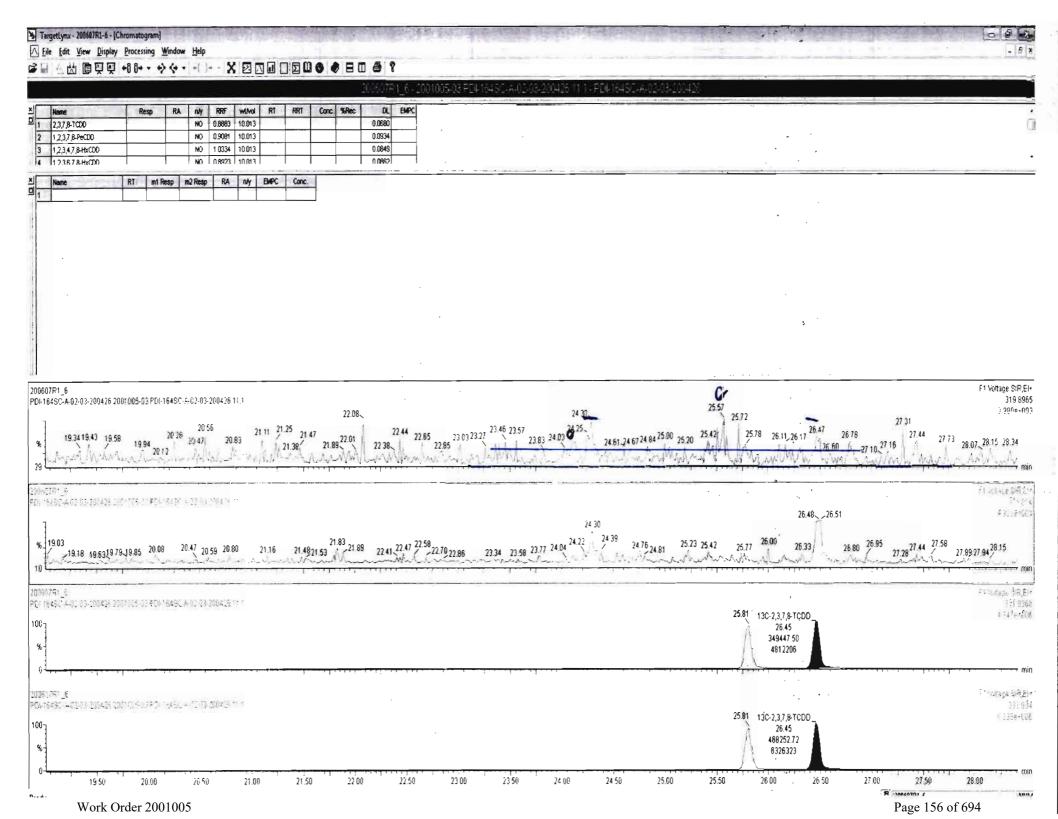
Will soft the still	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 1 4 1 5 1	Total Hexa-Furans	32.95	2.920e3	2.787e3	1.567e2	1.095e2	1.43	YES	0.000e0	0.00000	0.10500	0.0267
2	Total Hexa-Furans	33.49	2.487e3	3.971e3	1.621e2	1.664e2	0.97	YES	0.000e0	0.00000	0.12500	0.0267

Hepta-Furans

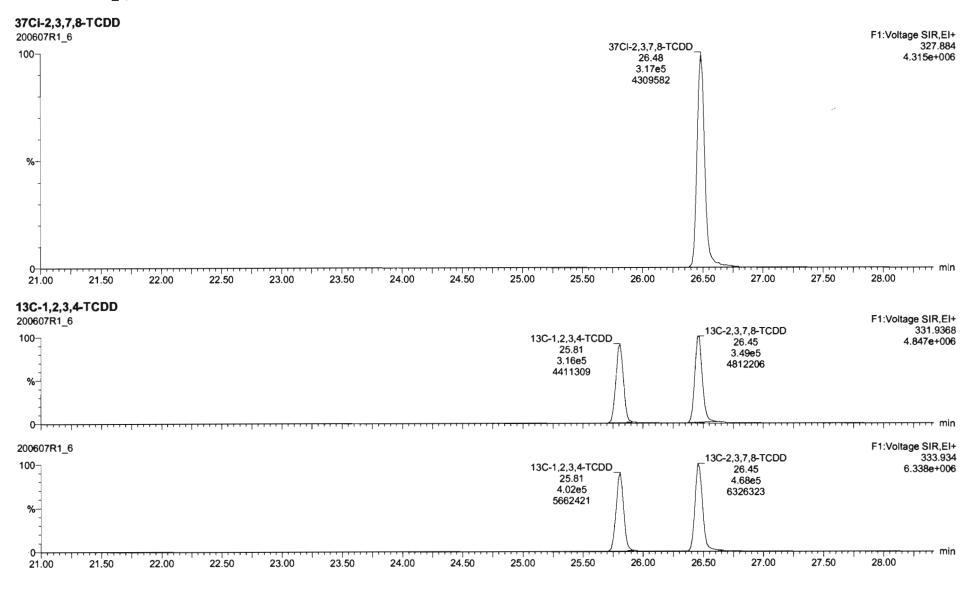
Name	RT	m1 Height m2 Height	m1 Resp m2 Resp	RA n/y	Resp	Conc.	EMPC	DL

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	itled nday, June 08, 2020 07:40:53 Pacific Daylight Time nday, June 08, 2020 07:43:34 Pacific Daylight Time

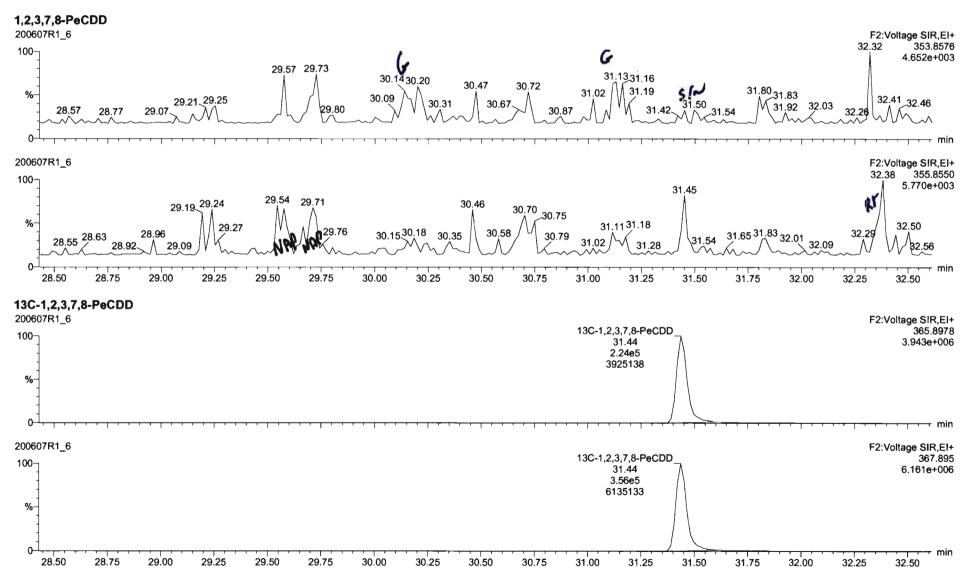




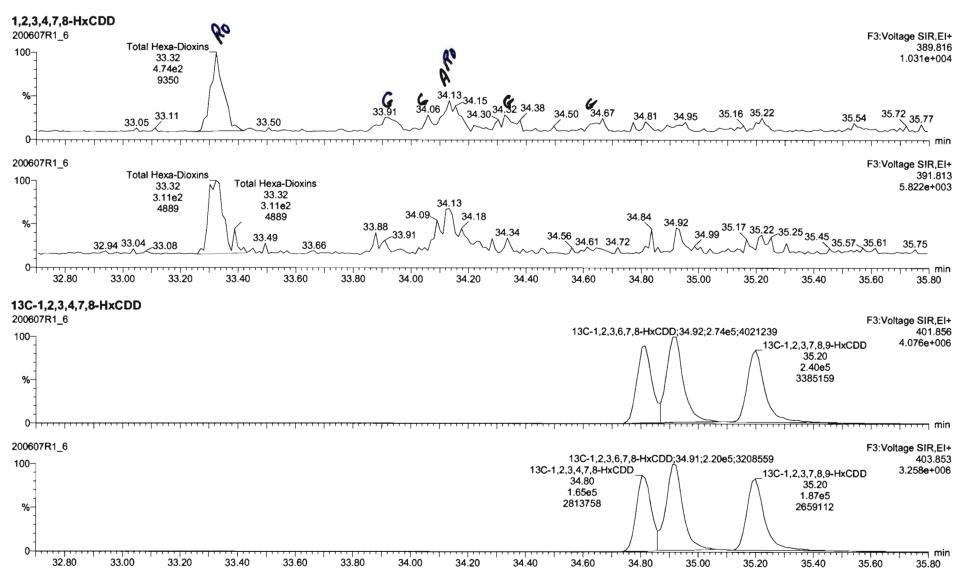
Quantify San Vista Analytica	• •	Page 41 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

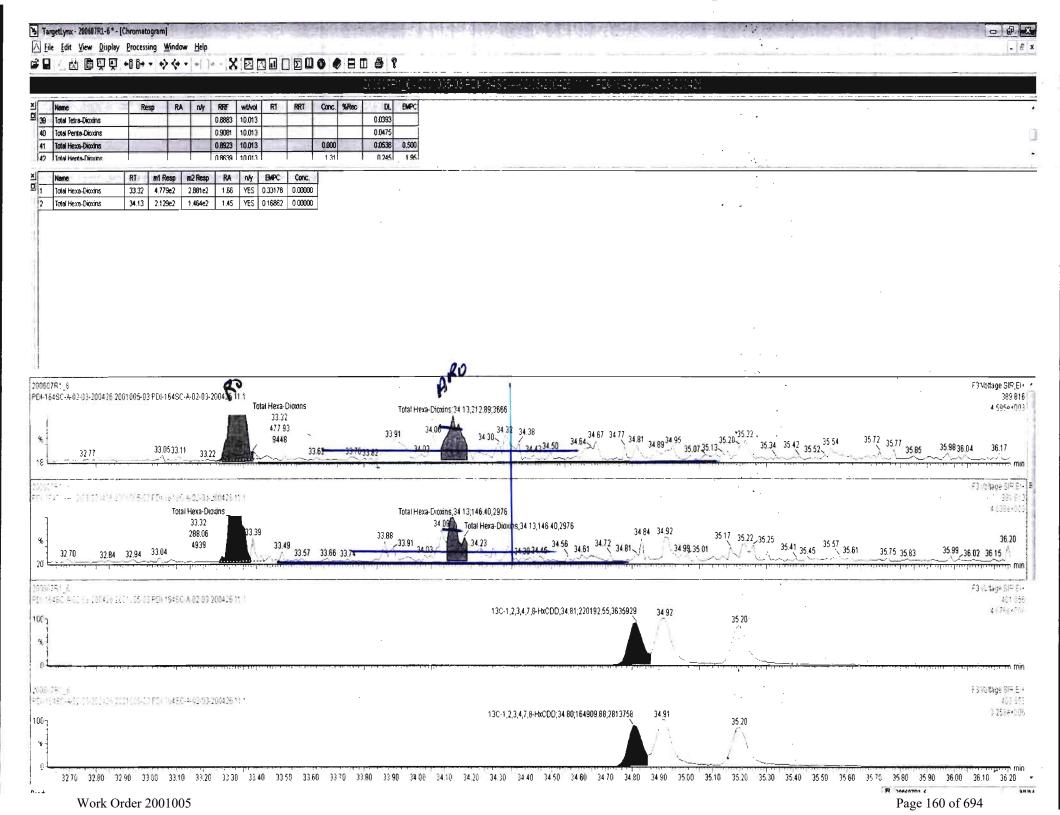


Quantify Sam Vista Analytica		Page 42 of 182
Dataset:	Untitled	
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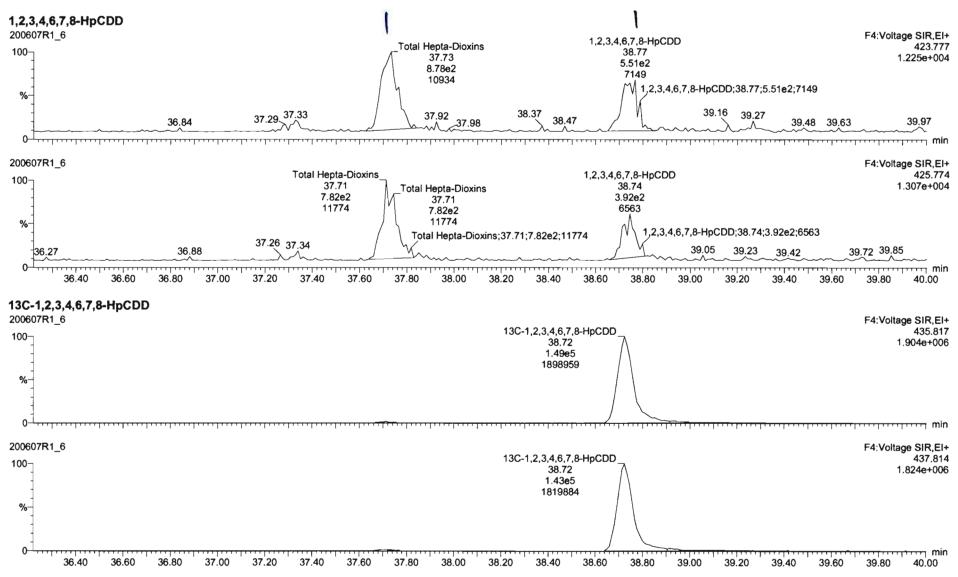


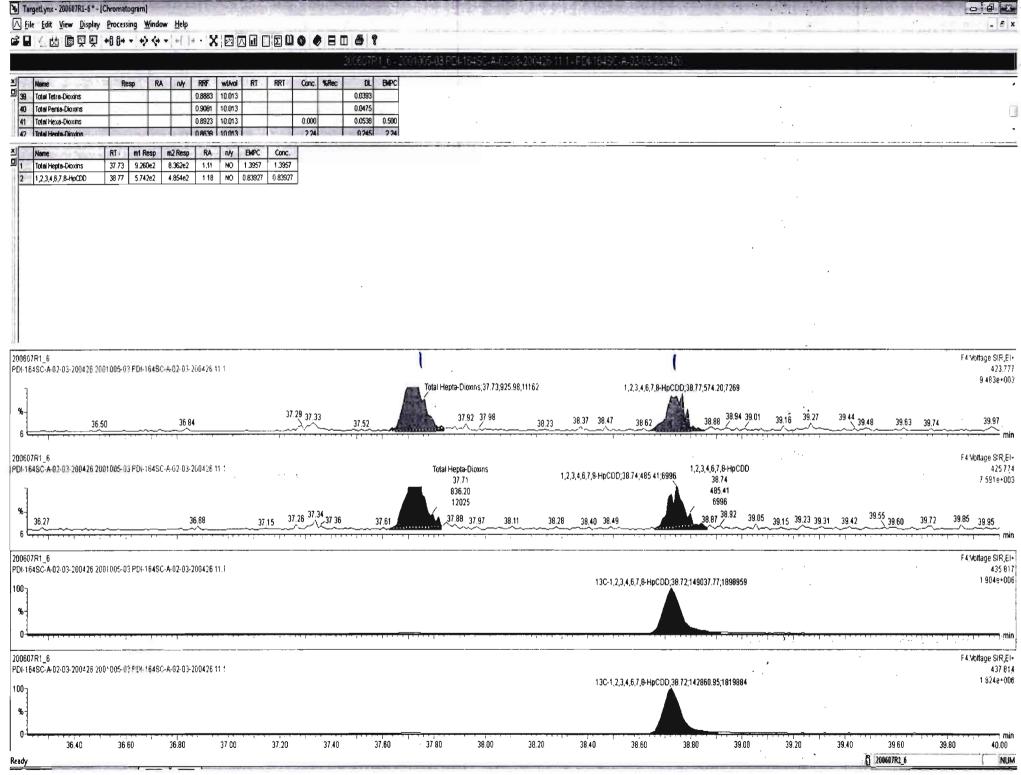
Quantify Sam Vista Analytica		Page 43 of 182
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Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	





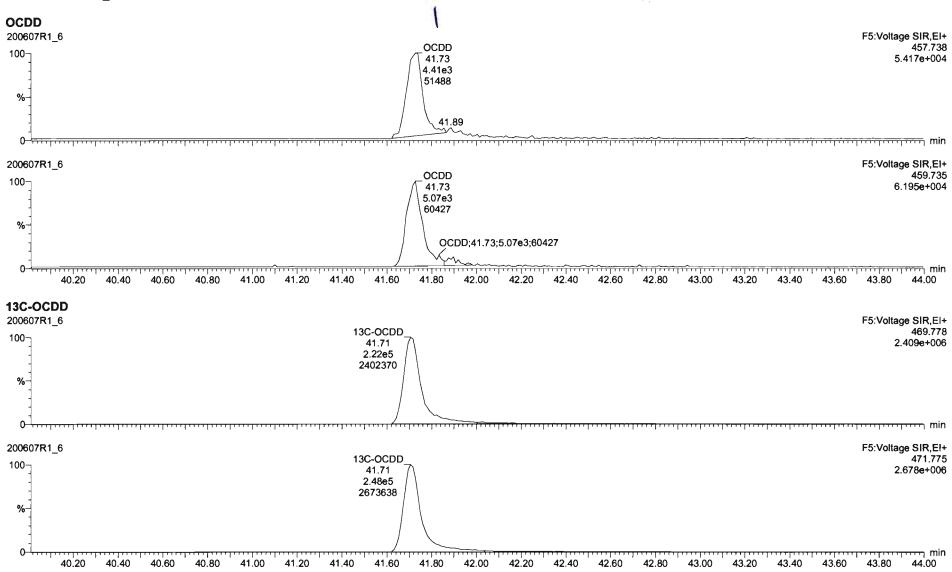
Quantify Sam Vista Analytica		Page 44 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	





Page 162 of 694

Quantify San Vista Analytica		Page 45 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



6 Conc. %Rec DL EMPC Nome Resp RA NY RRF WLAVOI RT RRT 9.95 9.95 NO 0.9136 10.013 41.73 1.001 0.290 0000 1.05e4 0.94 2,3,7,8-TCDF NO 0.7510 10.013 0.0423 8 9 1,2,3,7,8-PeCDF NO 0.8925 10.013 0.0430 10 2347 B-PeCDE NO 0.9348 10.013 0.0389 EMPC Name RT m1 Resp m2 Resp RA nly Conc. F5 Voltage SIR EI+ 200607R1 6 PDI-164SC-A-02-03-200426 2001005-03 PDI-164SC-A-02-03-200426 11.1 457 738 5417e+004 OCDD;41.73;5099 17,53157 100-% OCDD;41.73,5099.17;53157 Ð-F5 Voltage SiR,EI+ 200607R1_6 459.735 PDI-164SC-A-02-03-200428-2001006-03 PDI-154SC-A-02-03-200426-11.1 6 1952+004 OCDD 41.73;5442 67,60809 100 -%-OCDD;41.73;5442 67;60809 04= mir F5 Voltage SIR, EI+ 200607R1_6 469778 PDI-164SC-A-02-03-200426 2001005-03 PDI-164SC-A-02-03-200426 11.1 2 4098+006 13C-0CDD;4171;219762;61;2403318 100 1 % 0 F5'Voltage SIR,EI+ 200607R1_6 PDF164SC-A-02-02-200426 2001005-03 PDF164SC-A-02-03-200426 11.1 471,775 4 2.6788+006 13C-0CDD;41.71,243671.41;2672879 100-% 0rnin T 41.20 41 60 41.80 42.00 42.60 42.80 43,00 43.20 43.40 43.60 43.80 44.20 44.40 44.60 40 20 40.40 40 60 40.80 41.00 41.40 42.20 42.40 44.00 44.80 45.00 1 200607R1 6 NUM Ready

Work Order 2001005

Page 164 of 694

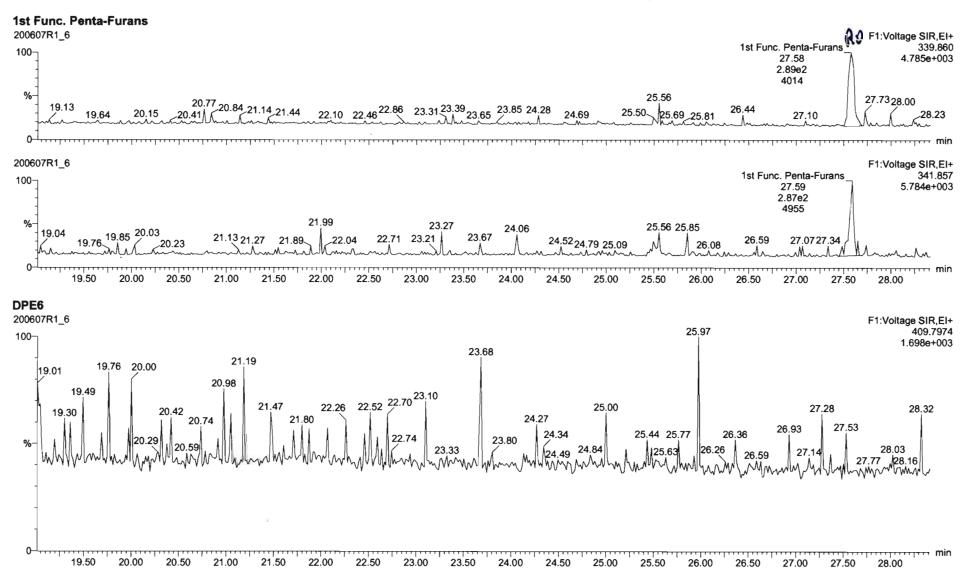
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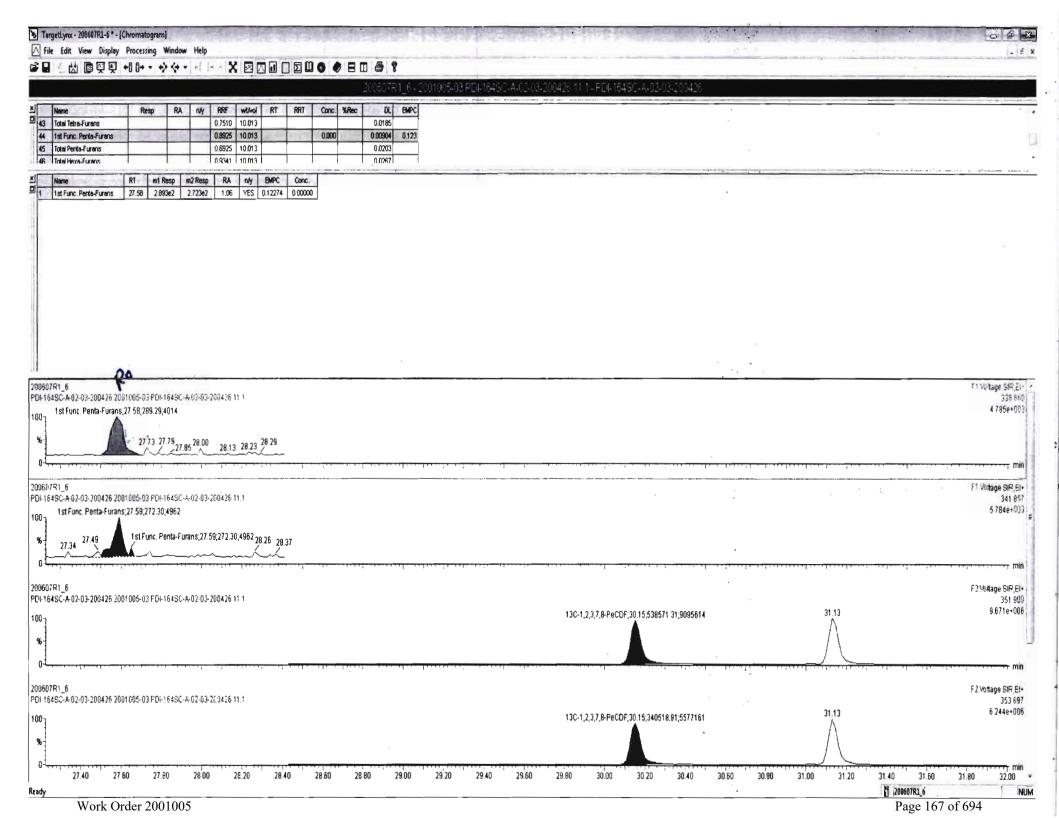
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3 Targetlynx - 200607R1-6* - [Chromatogram] A file fdit View Display Processing Window Help

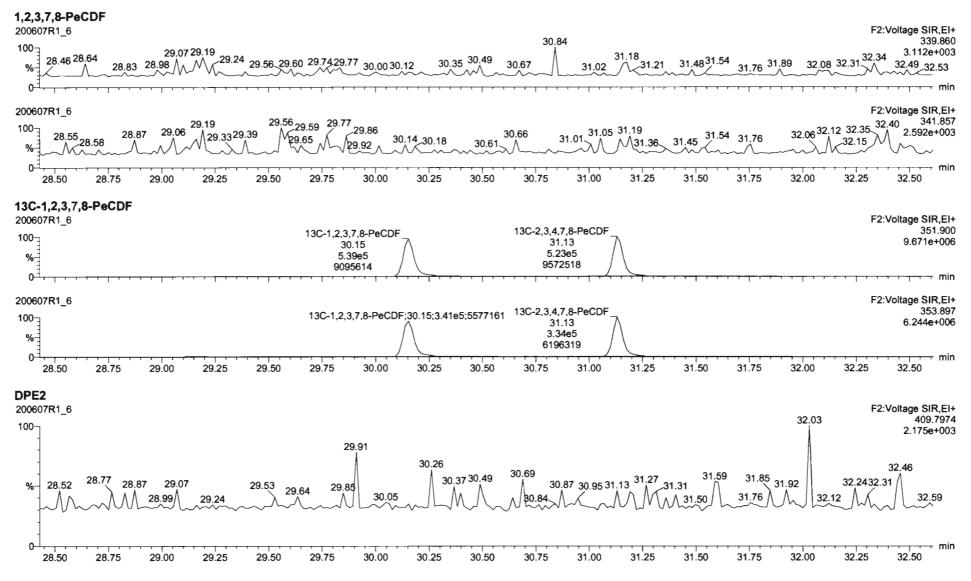
Quantify Sam Vista Analytica		MassLynx	4.1 SCN815							P	age 46 of 18
Dataset:	Untitled										
ast Altered: Printed:	Monday, June Monday, June				,						
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lame: 200607	7R1_6, Date: 07	-Jun-2020, Tir	ne: 12:34:16,	ID: 2001005-	03 PDI-164SC-	A-02-03-200)426 11.1, Des	scription: PDI-	164SC-A-02-03	3-200426	
200607R1_6										F1	Voltage SIR,E
%lun	0.72 19.87 20.03 20.	33 20.75 21.42	21.45 2 2 2 2 2 2 2 2 1.51 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.32 _{22.46} 22	.91 23.43 23.61	23.89_24.01 MMMM	24.64 25.1	7 25.59 2	6.17 26.47 26.66	27.17 27.62 2 M	303.901 7.82 2.441e+00
0										••••••••••••••••••••••••••••••••••••••	:Voltage SIR,E
100 19.03 %	8 19.78 20.30 ₂	20.36 20.84 21.38	21.50	22.50	23.01 23.13 23	89 24.13	24.63 24.96	5.42 ^{25.56} 25.89	26.44 26.50		305.89 .04 3.217e+00 28.28
0									···		
19.5	50 20.00 20	.50 21.00	21.50 22.00	22.50	23.00 23.50	24.00 24	4.50 25.00	25.50 26.00	26.50 2	7.00 27.50 2	28.00
3C-2,3,7,8-T	CDF										
200607R1_6					13C-1,2,3,4-	TCDF	13C-2,3,7,8-1			F1:	Voltage SIR,E 315.94
%-					24.12 4.65e5	Λ	25.57 4.51e5	Λ			5.956e+0
0-1					553891		5901840				
00607R1_6		1					.1	,			
000781_0					13C-1,2,3,4-	TCDF	13C-2,3,7,8-1			F1:	Voltage SIR,E 317.9
%					24.12 5.98 e 5	Λ	25.57 5.91 e 5	Λ			7.701e+0
0-1,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			719357		7636981				m
19.5	0 20.00 20	.50 21.00	21.50 22.00	22.50	23.00 23.50	24.00 24	4.50 25.00	25.50 26.00	26.50 2	7.00 27.50 2	28.00
PE1											
00607R1_6				22.0	26					F1:	Voltage SIR,E
00				22.8	55						375.83 2.317e+0
-									26.38		
%19.06 19.3	19.93 19.79 <mark>20.06</mark> 20.3	32 20.89 21.19	21.35 21.96 21.96	2.10 22.56	22.98 23 23.37	77 24.34 2	25 24.52 24.73	26 25.29 25.51 25.51	09 ^{26.38} 26. 26.45 26.60	93 27.28 27.64	28.07
1					•• · · · · · · ·	· · · ·					
0 ^{_1} 19.5	60 20.00 20	.50 21.00	21.50 22.00	22 50		24.00 2	4.50 25.00				m
19.5	20.00 20	.50 21.00	21.50 22.00	22.50	23.00 23.50	24.00 24	4.50 25.00	25.50 26.00	26.50 27	7.00 27.50 2	28.00

Quantify San Vista Analytica		Page 47 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

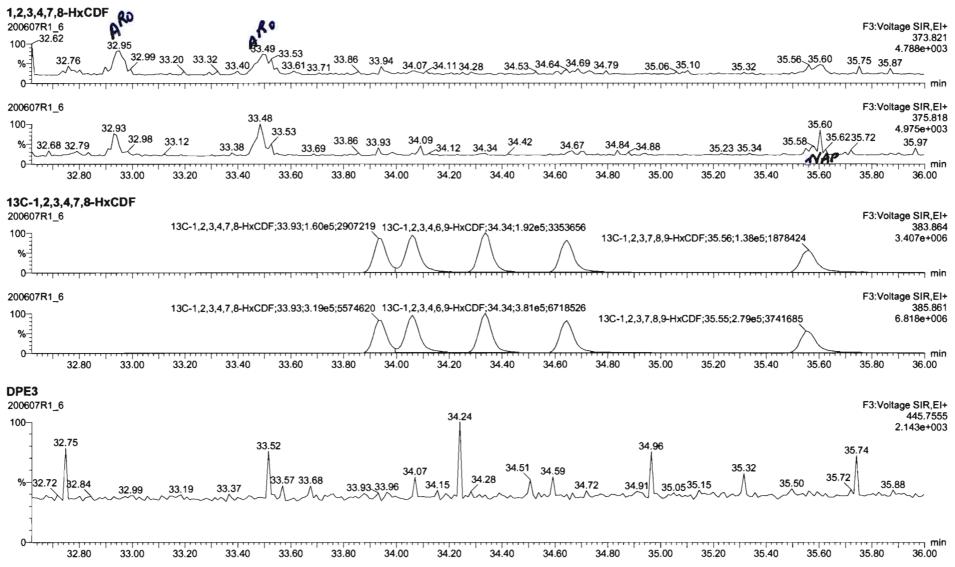


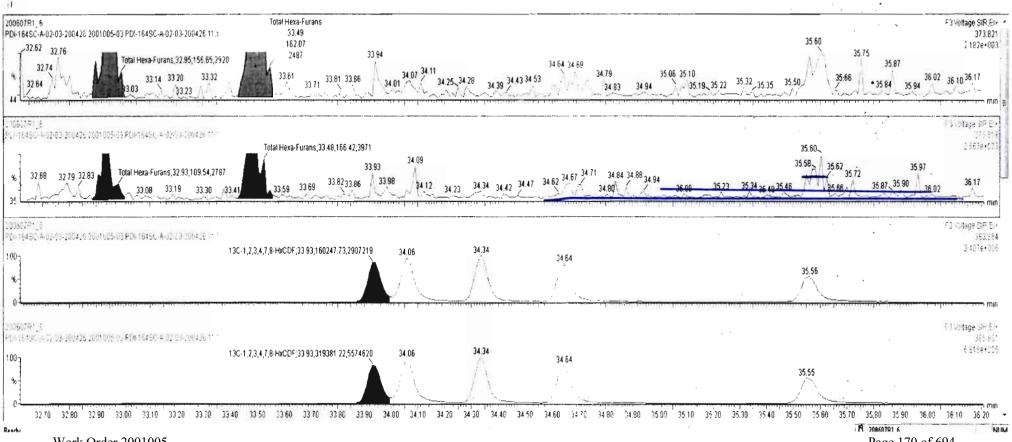


Quantify San Vista Analytica		Page 48 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	
Name: 20060	7R1_6, Date: 07-Jun-2020, Time: 12:34:16, ID: 2001005-03 PDI-164SC-A-02-03-200426 11.1, Description: PDI-164SC-	-A-02-03-200426



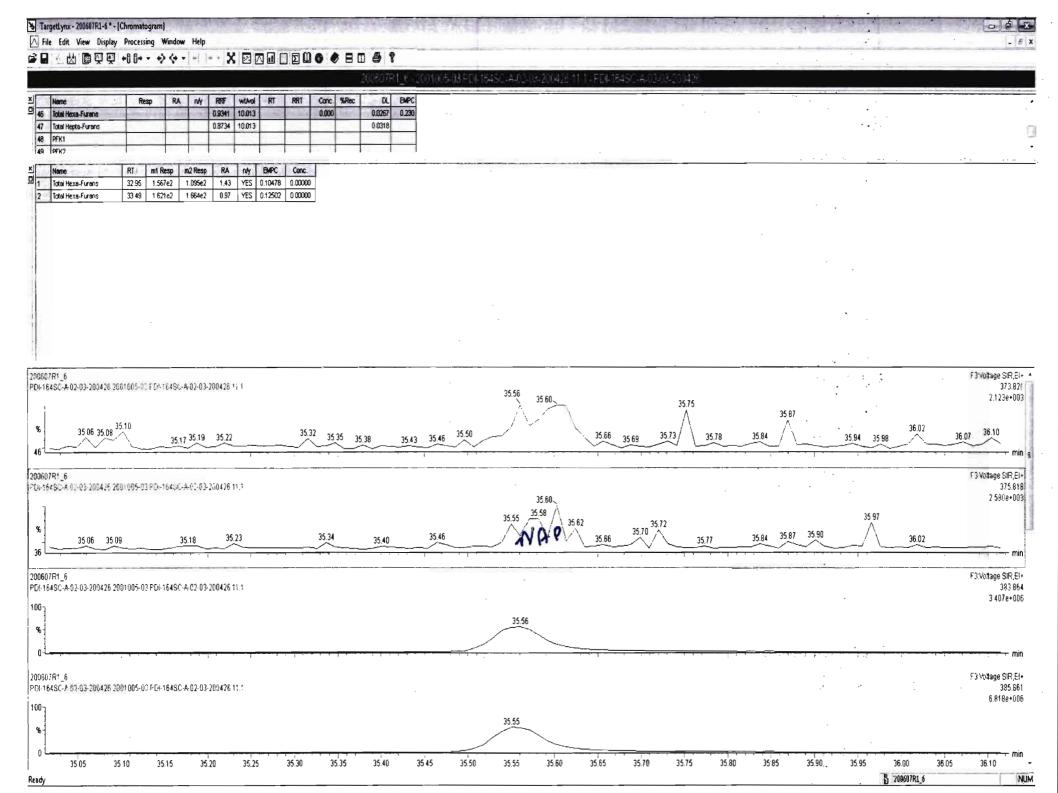
Quantify Sam Vista Analytica		Page 49 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	
Name: 20060	7R1_6, Date: 07-Jun-2020, Time: 12:34:16, ID: 2001005-03 PDI-164SC-A-02-03-200426 11.1, Description: PDI-164SC-A-02-03-200426	





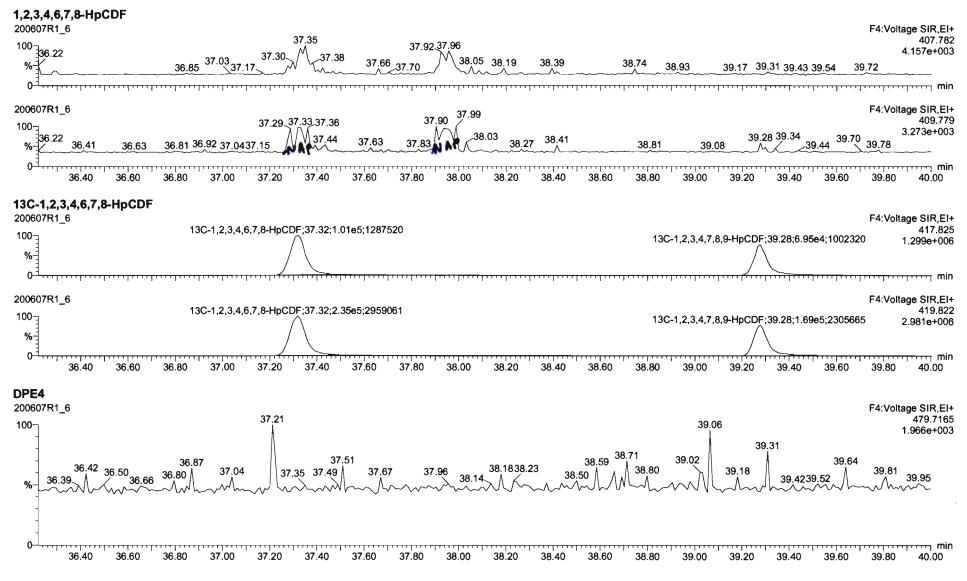
Page 170 of 694

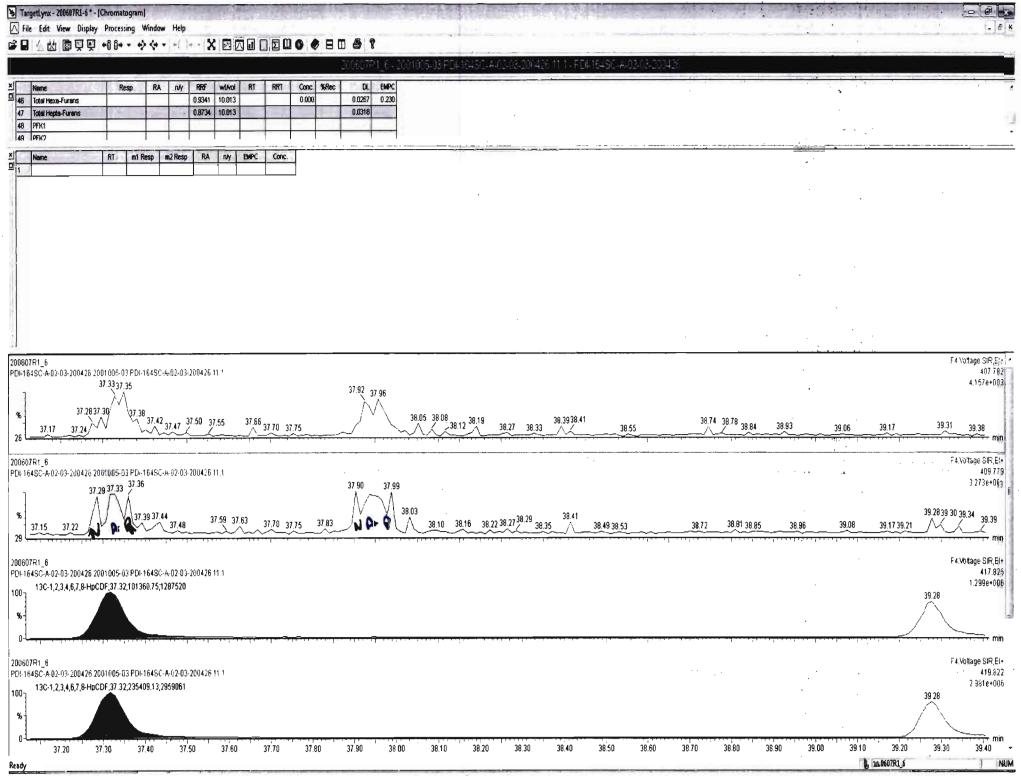
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Page 171 of 694

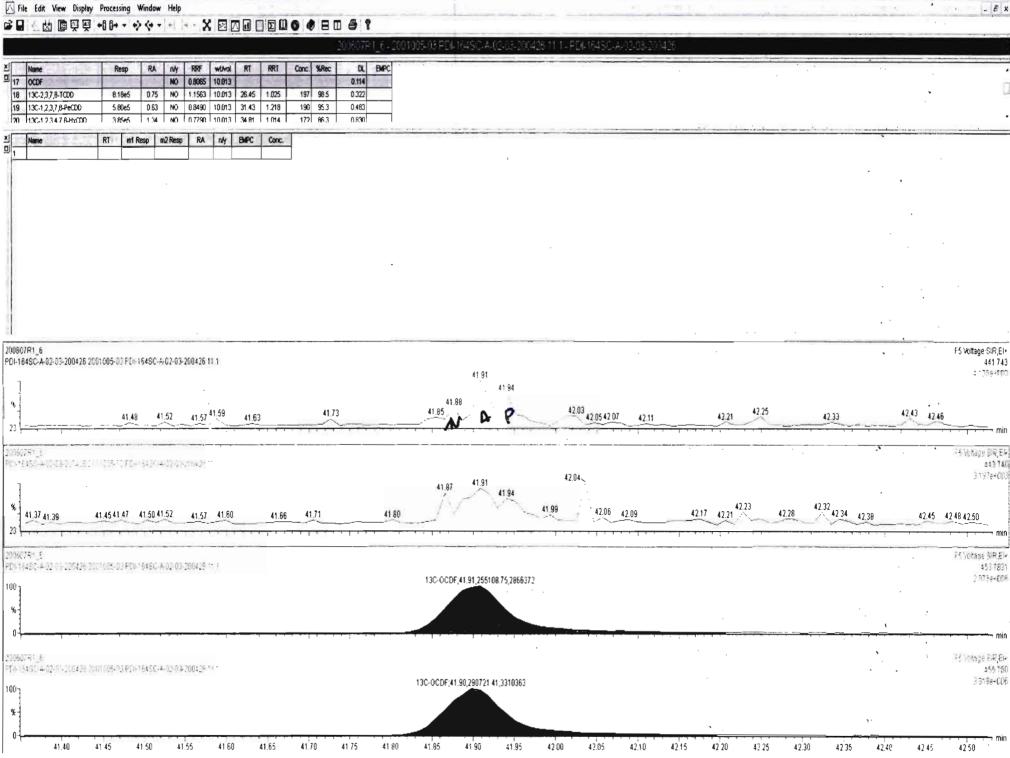
Quantify Sam Vista Analytica		Page 50 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	
Name: 20060	′R1_6, Date: 07-Jun-2020, ⊺ime: 12:34:16, ID: 2001005-03 PDI-164SC-A-02-03-200426 11.1, Description: PDI-164S	iC-A-02-03-200426





Page 173 of 694

uantify Sam sta Analytica		MassL	.ynx 4.1 S(CN815												Page 51 of
ataset:	Untitled															
ast Altered: inted:	Monday, June Monday, June															
ame: 200607	/R1_6, Date: 03	7-Jun-202	0. Time: 12	2:34:16.	ID: 20010	005-03 PC) -164SC-A-	02-03-20	0426 11.	1. Desc	ription:	PDI-164	SC-A-02	-03-2004	426	
CDF			,	,						,	•					
00607R1_6 00 %40.01 40.3	³ 40.42 ^{40.63} 40.8	14_ 40.91	41 _. 18 41	.52_41,59	41.9	_41.94	2,25 42,4342.	46 42.8	43.1 85	18 43.29	43.44_43.9	51 43.69 4	4.00	9 44.24	44	F5:Voltage SIR 441 4.138e+ .63 44.75
0			····					, , , , , , , , ,						, , , , , , ,		
00607R1_6	40.46	40.85 40.5	99 41.29	41.52	, j	42.04	42.32 42.54	42.66	43.0343.06	43.22	3.35 43.6	60 43.	88 44.00	44.23 4	4.35 44.	F5:Voltage SIR 443 3.740e+ 72 44.78 44.93
0 ¹ / _{40.25}	5 40.50 40.	75 41.00	41.25	41.50	41.75 4	42.00 42	2.25 42.50	42.75	43.00	43.25	43.50	43.75	44.00	44.25	44.50	44.75 45.0
0607R1_6				13C-00	CDF;41.91;2	2.55e5;2866	372									F5:Voltage SIR 453.7 2.876e+
0			• • • • • • • •									• •				F5:Voltage SIF
00 %				13C-O	CDF;41.90;2	.91e5;3310	363									455 3.319 0
0 ⁻¹	5 40.50 40.	75 41.00	41.25	41.50	41.75 4	42.00 42	2.25 42.50	42.75	43.00	43.25	43.50	43.75	44.00	44.25	44.50	44.75 45.
PE5																F5:Voltage SIF
0607R1_6						42	22		43	.13			44.03			513.0
40.13 4	0.41 40.53	10.81 41.00	41.30 MMM	41.63,	41.71 41.80	42.11	42.49 42.28 42.28	2.52 42.80	, 42.98	43.20	43.56	43.71 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3.90 44	13 44.34	44.53	.63 ^{44.71}
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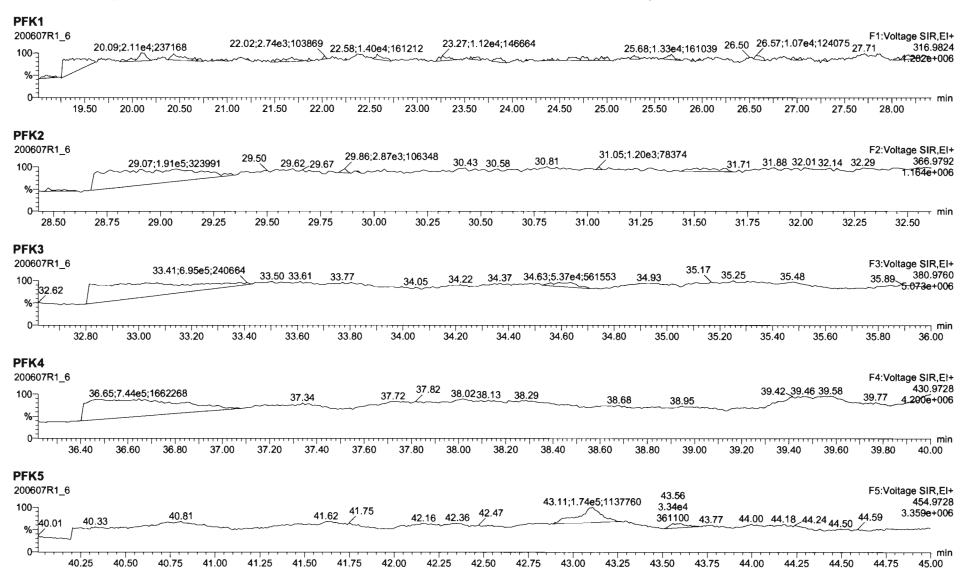


> TargetLynx - 200607R1-6* - [Chromatogram]

Page 175 of 694

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Quantify San Vista Analytica		Page 52 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



Quantify Sam Vista Analytica	ple Summary Report al Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\20	0607R1\200607R1-7.qld	
Last Altered: Printed:		2:17:37 Pacific Daylight Time 6:38:15 Pacific Daylight Time	

И 06-08-2020 СТ 06/10/2020

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

Name: 200607R1_7, Date: 07-Jun-2020, Time: 13:20:26, ID: 2001005-04 PDI-164SC-A-03-04-200426 11.6, Description: PDI-164SC-A-03-04-200426

11 (二)	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1 - Proprietarie	1 2,3,7,8-TCDD			NO	0.888	10.056	26.485		1.001				00679	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.056	31.442		1.001				0.0612	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.056	34.803		1.000				0.0819	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.056	34.900		1.000				0.0852	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.056	35.188		1.000				0.101	
6	6 1,2,3,4,6,7,8-HpCDD	7.03e2	1.11	NO	0.864	10.056	38.725	38.72	1.000	1.000	0.51275		0.132	0.513
7	7 OCDD	4.59e3	0.96	NO	0.914	10.056	41.706	41.72	1.000	1.000	3.8296		0.192	3.83
8	8 2,3,7,8-TCDF			NO	0.751	10.056	25.582		1.001				0.0429	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.056	30.160		1.001				0.0342	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.056	31.146		1.001				0.0312	
化建立合	11 1,2,3,4,7,8-HxCDF			No	0.884	10.050	33.920		1.000				0.04/0	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.056	34.058		1.000				0.0374	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.056	34.658		1.001				0.0394	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.056	35.539		1.000				0.0558	
1 5 - 15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.056	37.333		1.001				0.0490	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.056	39.267		1.000				0.0537	
17	17 OCDF			NO	0.806	10.056	41.897		1.000				0.0870	
18	18 13C-2,3,7,8-TCDD	8.01e5	0.78	NO	1.16	10.056	26.476	26.45	1.026	1.026	190.45	95.8	0.258	
19	19 13C-1,2,3,7,8-PeCDD	5.99e5	0.64	NO	0.849	10.056	31.656	31.42	1.227	1.218	194.12	97.6	0.426	
20	20 13C-1,2,3,4,7,8-HxCDD	3.89e5	1.28	NO	0.779	10.056	34.798	34.79	1.014	1.014	175.09	88.0	0.962	
21	21 13C-1,2,3,6,7,8-HxCDD	5.12e5	1.25	NO	1.02	10.056	34.911	34.90	1.017	1.017	176.59	88.8	0.737	
22	22 13C-1,2,3,7,8,9-HxCDD	4.36e5	1.22	NO	0.903	10.056	35.182	35.18	1.025	1.025	169.55	85.2	0.831	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.16e5	1.03	NO	0.689	10.056	38.703	38.71	1.128	1.128	160.64	80.8	0.669	
23 24 25	24 13C-OCDD	5.22e5	0.88	NO	0.652	10.056	41.722	41.71	1.216	1.215	280.75	70.6	0.800	
25	25 13C-2,3,7,8-TCDF	1.03e6	0.76	NO	1.06	10.056	25.519	25.56	0.989	0.991	182.78	91.9	0.344	
26	26 13C-1,2,3,7,8-PeCDF	8.87e5	1.59	NO	0.838	10.056	30.041	30.14	1.165	1.168	199.60	100	0.770	
27. 2	27 13C-2,3,4,7,8-PeCDF	8.84e5	1.59	NO	0.817	10.056	30.993	31.11	1.202	1.206	204.20	103	0.790	
28	28 13C-1,2,3,4,7,8-HxCDF	5.11e5	0.50	NO	1.01	10.056	33.930	33.92	0.989	0.988	177.96	89.5	0.861	
29	29 13C-1,2,3,6,7,8-HxCDF	6.13e5	0.51	NO	1.17	10.056	34.053	34.05	0.992	0.992	184.32	92.7	0.743	
30	30 13C-2,3,4,6,7,8-HxCDF	5.40e5	0.50	NO	1.02	10.056	34.626	34.62	1.009	1.009	185.41	93.2	0.849	

Page 1 of 2

Quantify Sam Vista Analytica	ple Summary Report I Laboratory	MassLynx 4.1 SCN815
Dataset:	U:\VG12.PRO\Results\200	607R1\200607R1-7.qld
Last Altered: Printed:	Monday, June 08, 2020 12: Monday, June 08, 2020 16:	

19-54 ¹ 1-17	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPO
31	31 13C-1,2,3,7,8,9-HxCDF	4.38e5	0.48	NO	0.860	10.056	35.525	35.54	1.035	1.036	178.52	89.8	1.01	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.60e5	0.44	NO	0.774	10.056	37.272	37.30	1.086	1.087	162.82	81.9	0.649	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.45e5	0.42	NO	0.521	10.056	39.300	39.27	1.145	1.144	164.99	83.0	0.965	
34	34 13C-OCDF	6.28e5	0.89	NO	0.746	10.056	41.894	41.90	1.221	1.221	295.44	74.3	0.754	
35	35 37CI-2,3,7,8-TCDD	3.02e5			1.04	10.056	26.507	26.47	1.028	1.026	79.983	101	0.0665	
36	36 13C-1,2,3,4-TCDD	7.23e5	0.79	NO	1.00	10.056	25.890	25.80	1.000	1.000	198.89	100	0.299	
37	37 13C-1,2,3,4-TCDF	1.05e6	0.79	NO	1.00	10.056	24.360	24.10	1.000	1.000	198.89	100	0.365	
38	38 13C-1,2,3,4,6,9-HxCDF	5.67e5	0.50	NO	1.00	10.056	34.420	34.31	1.000	1.000	198.89	100	0.867	
39	39 Total Tetra-Dioxins				0.888	10.056	24.620		0.000		0.00000		0.0423	0.107
40	40 Total Penta-Dioxins				0.908	10.056	29.960		0.000				0.0248	
41	41 Total Hexa-Dioxins				0.892	10.056	33.635		0.000		0.00000		0.0502	0.258
42	42 Total Hepta-Dioxins				0.864	10.056	37.640		0.000		1.3291		0.132	1.33
43	43 Total Tetra-Furans				0.751	10.056	23.610		0.000				0.0179	
44	44 1st Func. Penta-Furans				0.893	10.056	27.580		0.000				0.00731	
45	45 Total Penta-Furans				0.893	10.056	29.275		0.000				0.0158	
46	46 Total Hexa-Furans				0.934	10.056	33.555		0.000				0.0149	
47-052	47 Total Hepta-Furans				0.873	10.056	37.835		0.000				0.0337	

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-7.qld

Last Altered:	Monday, June 08, 2020 12:17:37 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:38:15 Pacific Daylight Time

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Name: 200607R1_7, Date: 07-Jun-2020, Time: 13:20:26, ID: 2001005-04 PDI-164SC-A-03-04-200426 11.6, Description: PDI-164SC-A-03-04-200426

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA n/	y Resp	Conc.	EMPC	DL
t Total Tetra-Dioxins	24.27	2.494e3	3.534e3	1.950e2	2.163e2	0.90 YE	ES 0.000e0	0.00000	0.10700	0.0679

Penta-Dioxins

MPG all	Concent	Resp	n/y ·	RA	m2 Resp	m1 Resp	n1 Height m2 Height	RT	-meikos) M	Name	
											10000
										0610	10 HO

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
t n state i	Total Hexa-Dioxins	33.31	7.831e3	5.729e3	3.307e2	2.306e2	1.43	YES	0.000e0	0.00000	0.25800	0.0930

Hepta-Dioxins

Name	HALL BERT	mi Height,	m2 Height	m1 Resp	m2 Resp	RA	nty	Resp	Conc.	EMPC	OL
Total Hepta-Dioxins	37.72	9.066e3	6.970e3	5.828e2	5.366e2	1.09	NO	1.119e3	0.81638	0.81600	0.132
1,2,3,4,6,7,8-HpCDD	38.72	7.654e3	5.504e3	3.701e2	3.329e2	1.11	NO	7.031e2	0.51275	0.51300	0.132

Tetra-Furans



Penta-Furans function 1

Name RT m1 Height, m2 Height, m1 Resp. m2 Resp. RA m/y Resp. Conct. EMPC DI

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-7.qld

Last Altered: Monday, June 08, 2020 12:17:37 Pacific Daylight Time Printed: Monday, June 08, 2020 16:38:15 Pacific Daylight Time

Name: 200607R1_7, Date: 07-Jun-2020, Time: 13:20:26, ID: 2001005-04 PDI-164SC-A-03-04-200426 11.6, Description: PDI-164SC-A-03-04-200426

Penta-Furans

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

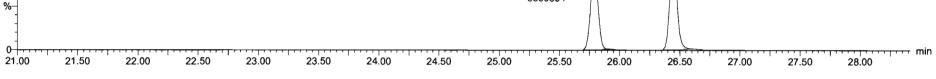
Hexa-Furans

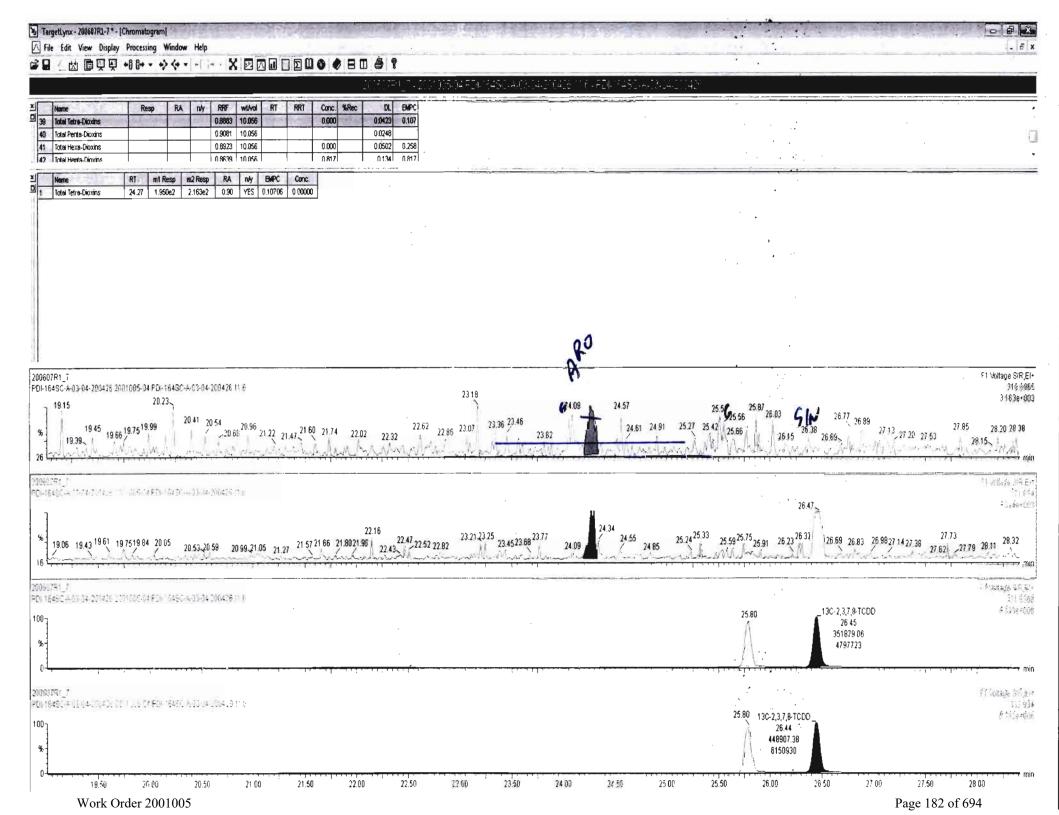
Name RT m1 Height m2 Height m1 Resp m2 Resp RA n/y Resp Conc. EMPC DL

Hepta-Furans

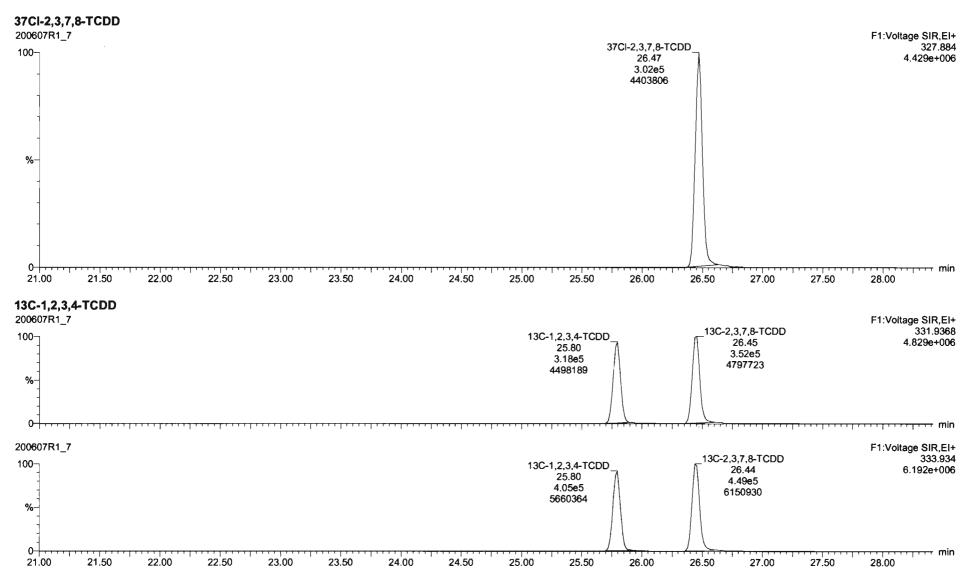
Name RT m1 Height m2 Height m1 Resp m2 Resp RA n/y Resp Conc 1 EMPC DL

Quantify Sam /ista Analytica					Page 53 of 18
Dataset:	Untitled				
ast Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Dayli Monday, June 08, 2020 07:43:34 Pacific Dayli				
,3,7,8-TCDD 00607R1_7	7R1_7, Date: 07-Jun-2020, Time: 13:20:26, ID 23.18 1.60 21.74 22.02 22.32 22.62 22.8623.07 23.36 2	23.46 23.82 A 24.91	25.51 25.87 20		F1:Voltage SIR,E 319.89 3.394e+0 27.20 27.53 ^{27.85} 28.20 28.38
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0	1.50 22.00 22.50 23.00 23.5	50 24.00 24.50 25.00	25.50 26.00	26.50 27.00	27.50 28.00
3C-2,3,7,8-T (00607R1_7	CDD	1:	3C-1,2,3,4-TCDD 25.80 3.18e5 4498189	13C-2,3,7,8-TCDD 26.45 3.52e5 4797723	F1:Voltage SIR,E 331,93 4.829e+0

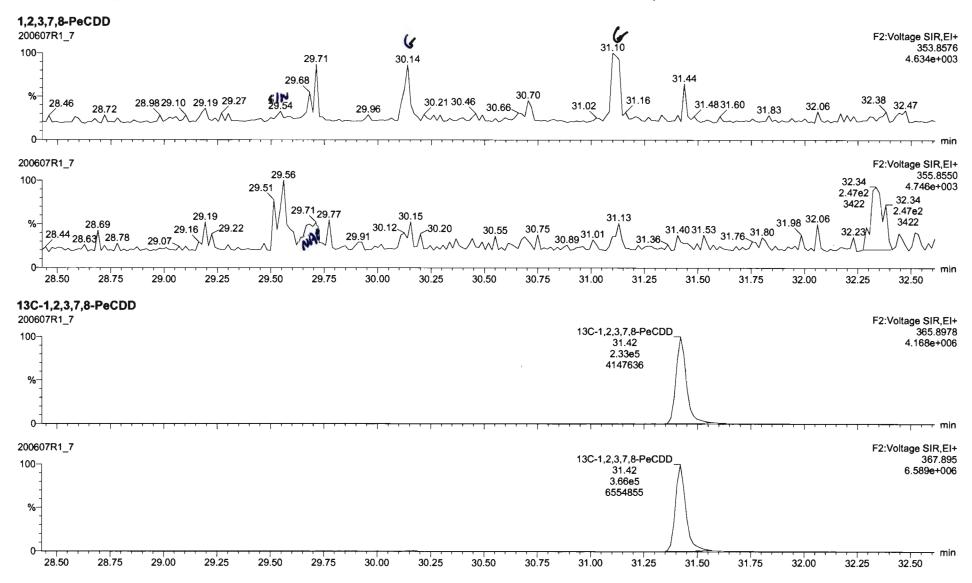




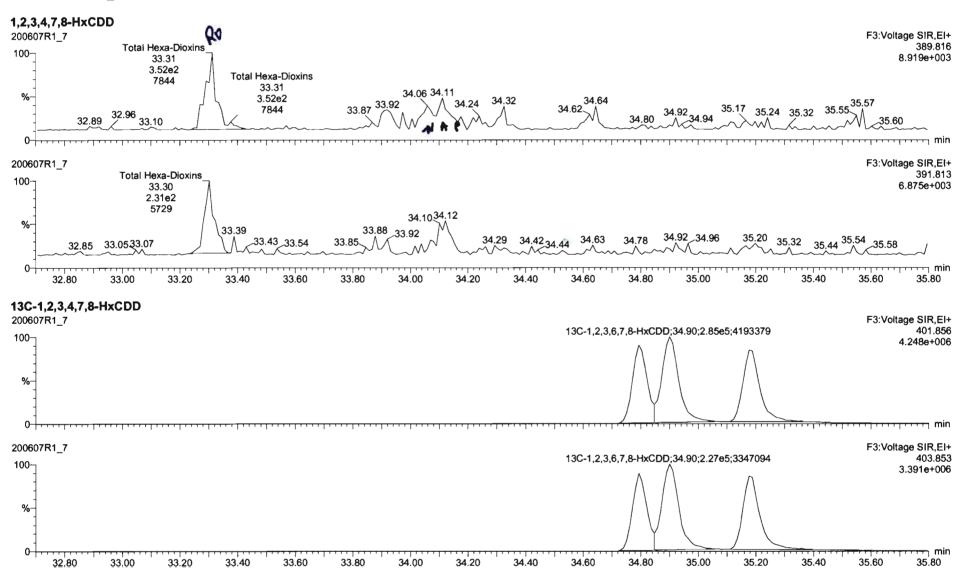
Quantify San Vista Analytica	· · ·	Page 54 of 182
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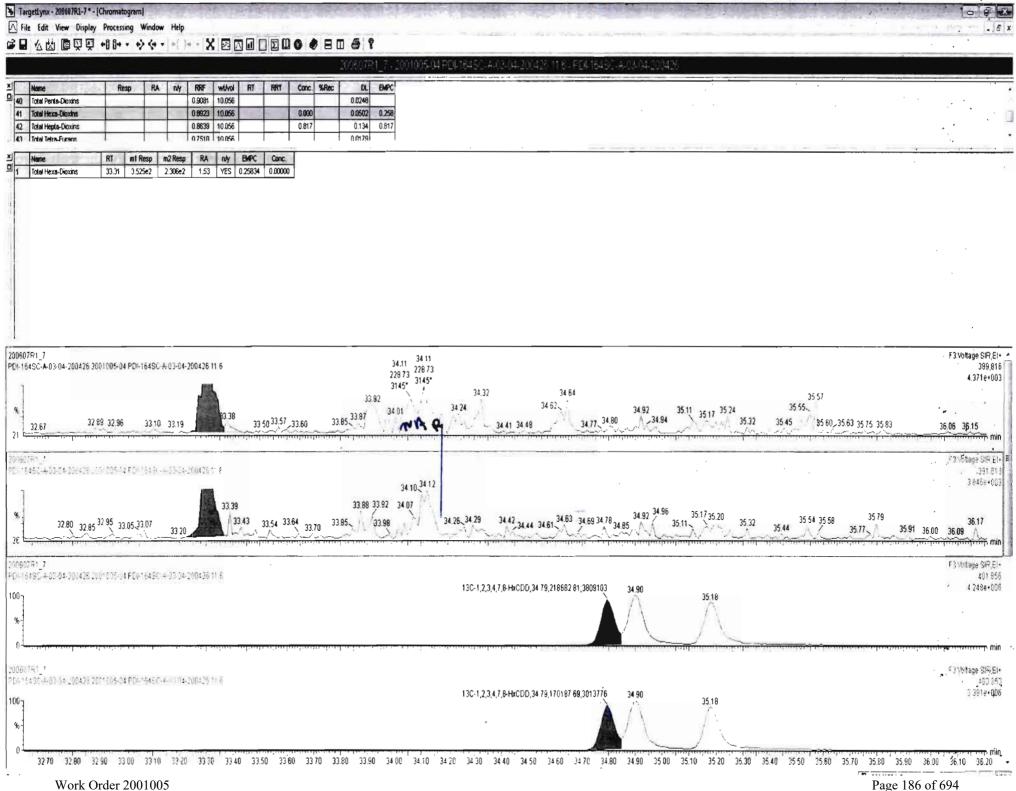


Quantify San Vista Analytica		Page 55 of 182
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Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



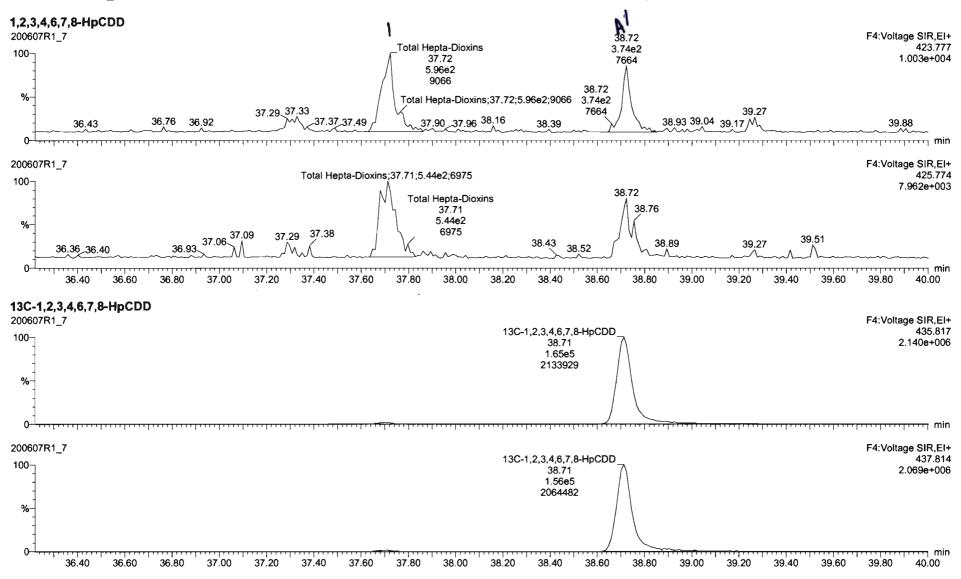
Quantify Sam Vista Analytica		Page 56 of 182
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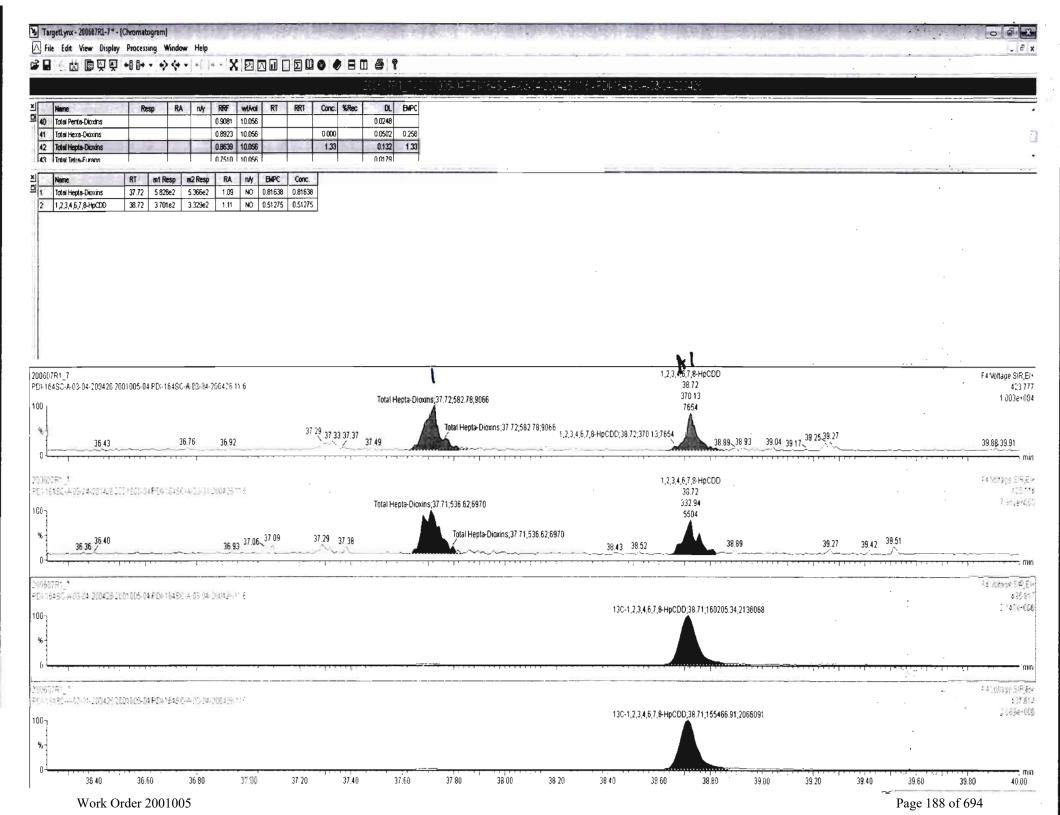




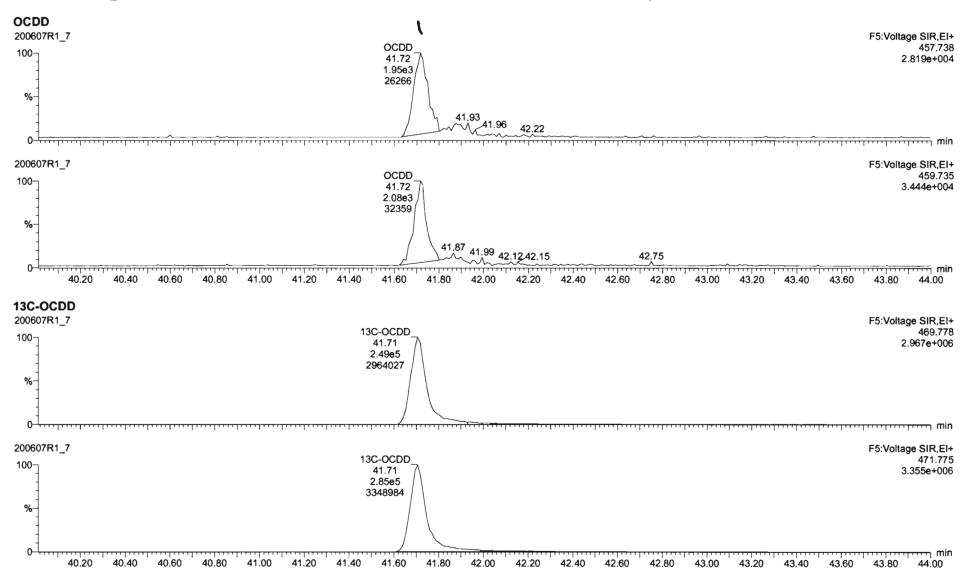
Page 186 of 694

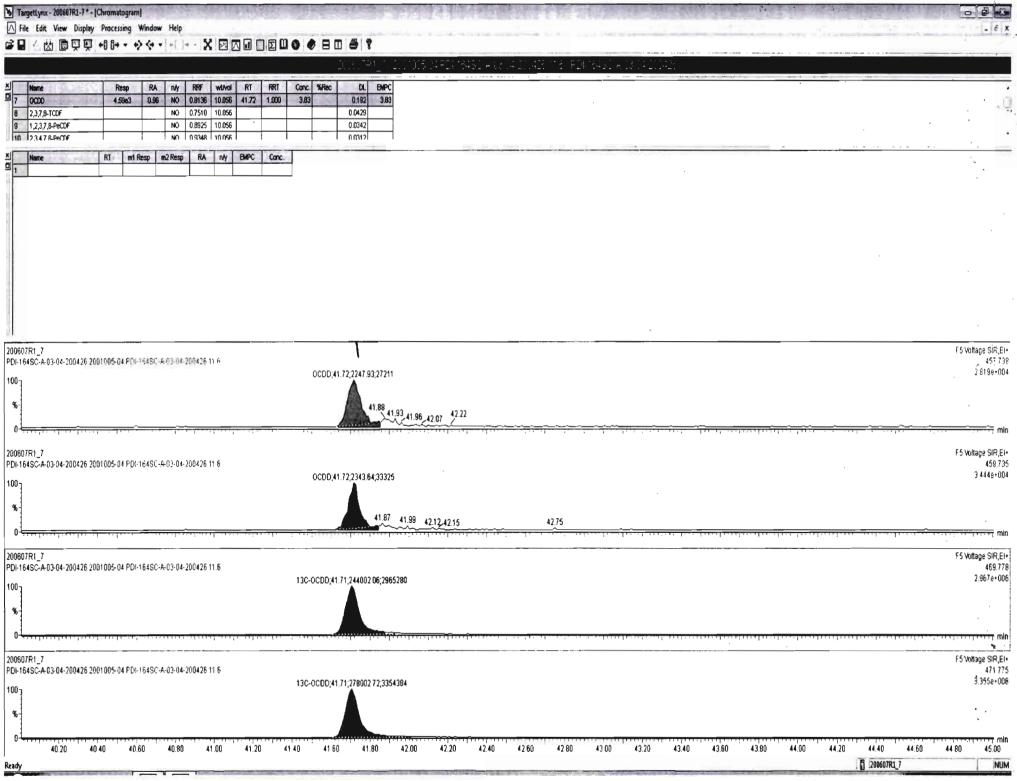
Quantify Sam Vista Analytica		Page 57 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	





Quantify San Vista Analytica		Page 58 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

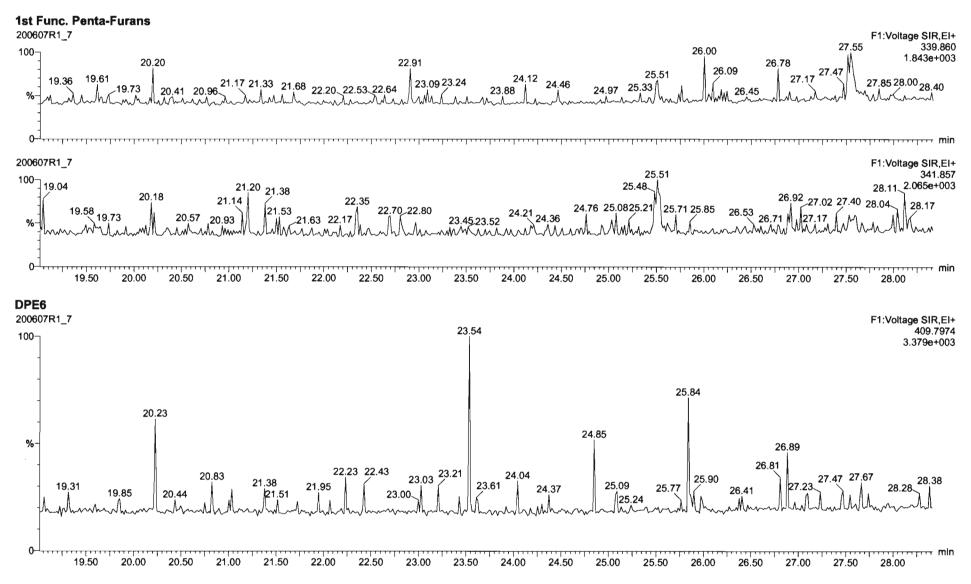




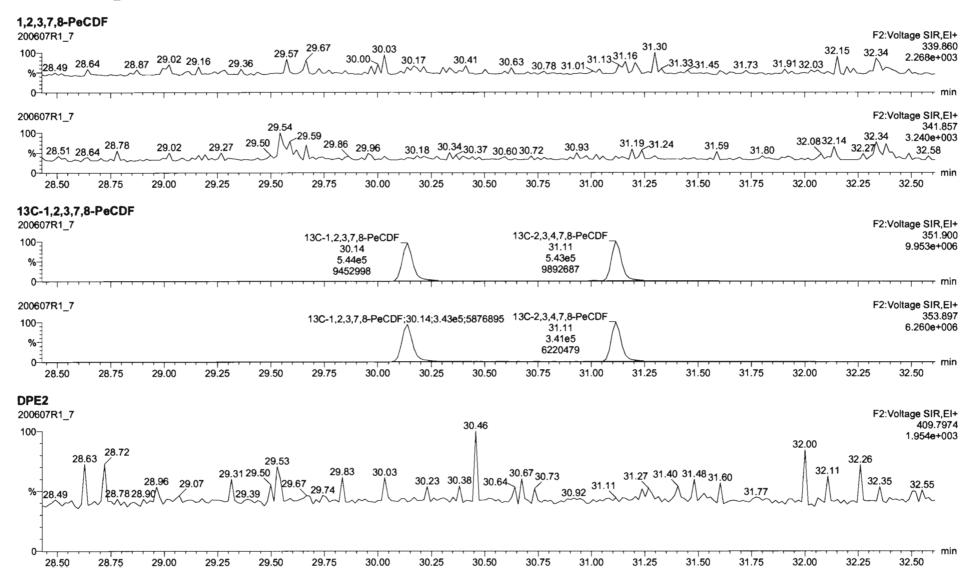
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9.54 19.96 ^{20.36} 20.	21.45 ²	1.6522.05 22.2	9 22.50 23.	10 23.62	24.15 24.27	7 24.66 ^{25.}		25.78	26.56	27.07 27		1:Voltage SIR, 303.90 3.255e+(83 28.06
- 19.72 20.29 ^{20.}	65 20 82 ^{21.25} 21.45	21.89 22.04	22.92 23.	12 23.73	³ 24.16	24.6424,78	25.60	25.78 26	26.51	27.08 ^{27.2}	23	1:Voltage SIR, 305. 2.708e+
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rCDF		13C-	1,2,3,4-TCDF;24	.10;4.64e5;541	1277	2: 4.4	5.56 45e5				F	1:Voltage SIR, 315.9 5.886e+
		13C-	1,2,3,4-TCDF;24	.10;5.90e5;688	6679	25 5.0	5.56 32e5		1	FL	F	I:Voltage SIR 317. 7.826e+
50 20.00 20.5	50 21.00 21.50) 22.00	22.50 23.00	23.50	24.00		· · · · · · · · · · · · · · · · · · ·	26.00	26.50	27.00	27.50	28.00
										27		l:Voltage SIR, 375.8 3.443e+
	21.16 21.26 0	1.45 22.19	22.59	23.67	24,16 ₂	4.00	25,42	5.53_25.84			27.9	28.2628.4
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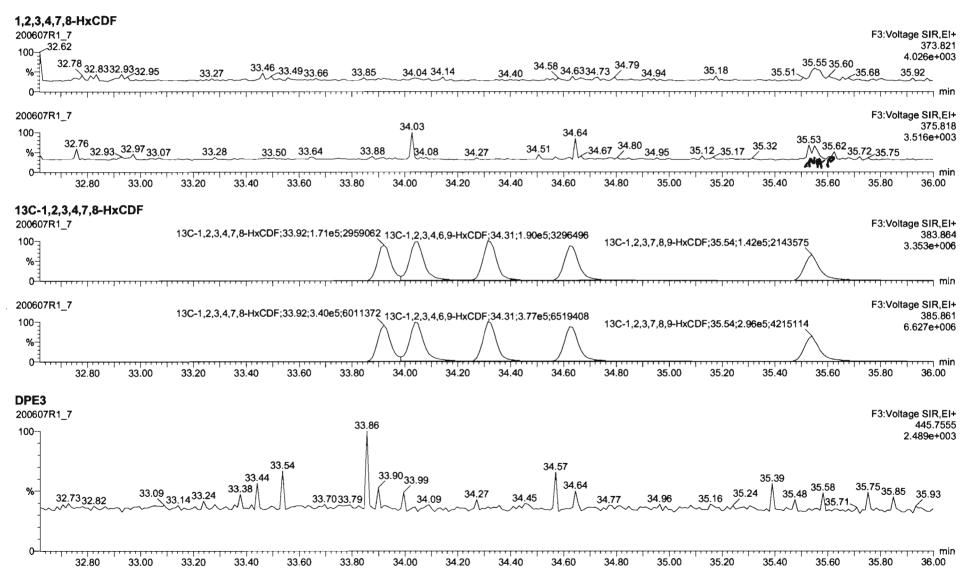
Quantify Sam Vista Analytica		Page 60 of 182
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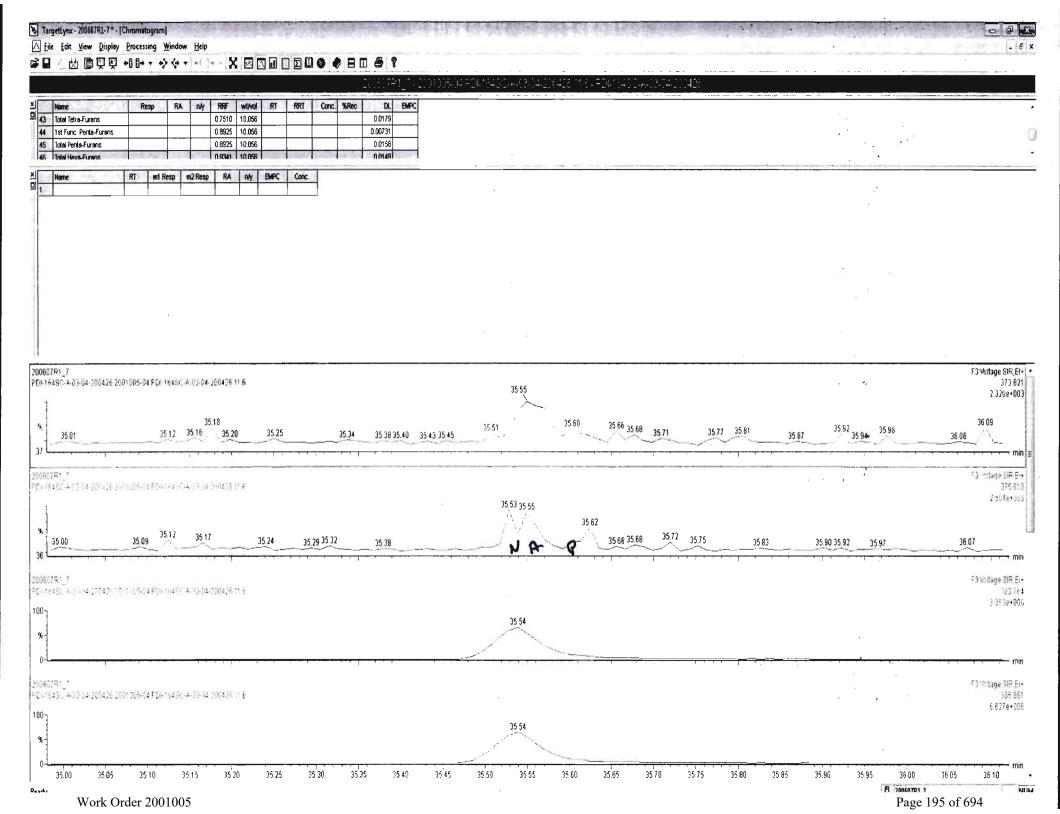


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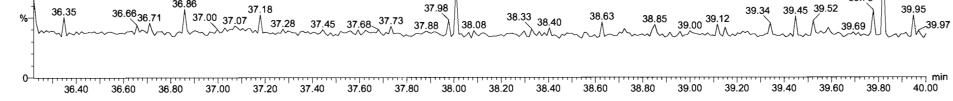


Quantify Sam Vista Analytica	• •	Page 62 of 18	
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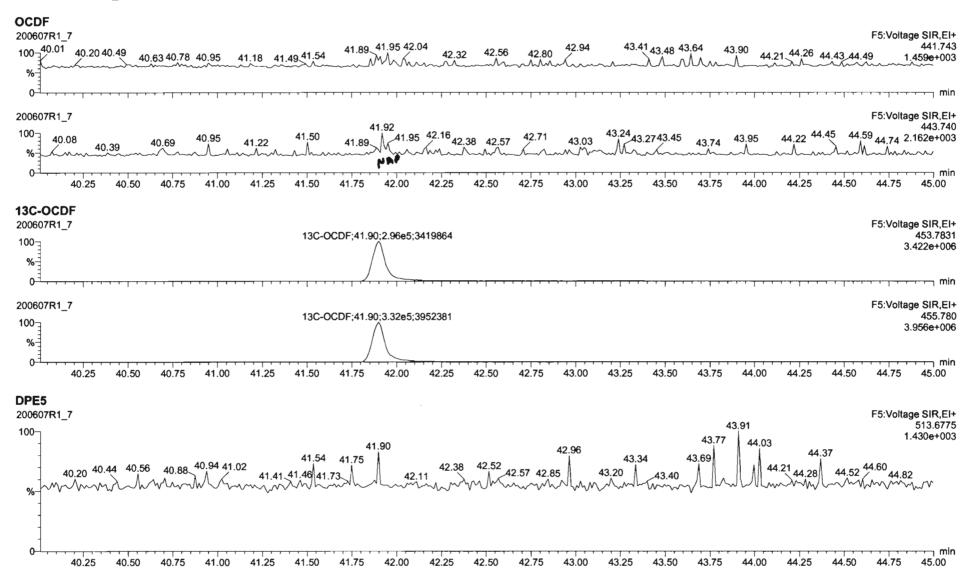




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0 ⁻¹	38.01	38.40 38.60 38.80 39.00 39.20 39.40 39.60 39.80 40.00 F4:Voltage SIR,E 39.82 479.716 2.248e+00



Quantify Sam Vista Analytica		Page 64 of 182
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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: 200607R1_8, Date: 07-Jun-2020, Time: 14:06:38, ID: 2001005-05 PDI-164SC-A-04-05-200426 11.6, Description: PDI-164SC-A-04-05-200426

- Handard and	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1. The second	1 2,3,7,8-TCDD			NO	0.888	10.100 /	26.486		1.001				0.0696	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.100	31.457		1.001				0.0869	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.100	34.814		1.000		-9		0.0910	
4 Ballin art	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.100	34.911		1.000				0.0885	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.100	35.209		1.000				0.104	
6	6 1,2,3,4,6,7,8-HpCDD	8.03e2	0.98	NO	0.864	10.100	38.746	38.76	1.000	1.001	0.68169		0.147	0.682
	7 OCDD	4.07e3	0.98	NO	0.914	10.100	41.706	41.71	1.000	1.000	3.9543		0.214	3.95
8	8 2,3,7,8-TCDF			NO	0.751	10.100	25.582		1.001				0.0494	
9 119 100 54	9 1,2,3,7,8-PeCDF			NO	0.893	10.100	30.160		1.001				0.0534	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.100	31.161		1.001				0.0460	
11.	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.100	33.931		1.000				0.0312	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.100	34.069		1.000				0.0277	
13.	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.100	34.680		1.001				0.0287	
14 5 3 1	14 1,2,3,7,8,9-HxCDF	1.28e2	0.78	YES	0.871	10.100	35.561	35.57	1.000	1.000	0.075884		0.0277	0.0600
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.100	37.365		1.001		2		0.0432	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.100	39.278		1.000				0.0480	
17. 14	17 OCDF			NO	0.806	10.100	41.897		1.000				0.0818	
18	18 13C-2,3,7,8-TCDD	6.53e5	0.79	NO	1.16	10.100	26.476	26.45	1.026	1.026	175.35	88.5	0.214	1
10	19 13C-1,2,3,7,8-PeCDD	5.29e5	0.63	NO	0.849	10.100	31.656	31.43	1.227	1.219	193.52	97.7	0.411	
20	20 13C-1,2,3,4,7,8-HxCDD	3.37e5	1,27	NO	0.779	10.100	34.820	34.80	1.014	1.014	166.16	83.9	0.497	
21	21 13C-1,2,3,6,7,8-HxCDD	4.55e5	1.26	NO	1.02	10.100	34.933	34.91	1.017	1.017	171.65	86.7	0.381	
22	22 13C-1,2,3,7,8,9-HxCDD	3.95e5	1.30	NO	0.903	10.100	35.205	35.20	1.025	1.025	168.04	84.9	0.429	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.70e5	1.04	NO	0.689	10.100	38.728	38.73	1.128	1.128	150.33	75.9	0.523	
21	24 13C-OCDD	4.47e5	0.89	NO	0.652	10.100	41.749	41.71	1.216	1.215	262.78	66.3	0.823	
25	25 13C-2,3,7,8-TCDF	8.28e5	0.76	NO	1.06	10.100	25.519	25.56	0.989	0.991	161.22	81.4	0.328	
26	26 13C-1,2,3,7,8-PeCDF	7.75e5	1.59	NO	0.838	10.100	30.041	30.14	1.165	1.168	190.54	96.2	0.690	1
27 1 1	27 13C-2,3,4,7,8-PeCDF	7.70e5	1.60	NO	0.817	10.100	30.993	31.13	1.202	1.207	194.31	98.1	0.708	
28	28 13C-1,2,3,4,7,8-HxCDF	4.49e5	0.50	NO	1.01	10.100	33.951	33.93	0.989	0.988	170.83	86.3	0.719	
29	29 13C-1,2,3,6,7,8-HxCDF	5.57e5	0.51	NO	1.17	10.100	34.075	34.06	0.992	0.992	183.08	92.5	0.620	
30	30 13C-2,3,4,6,7,8-HxCDF	4.94e5	0.49	NO	1.02	10.100	34.648	34.65	1.009	1.009	185.45	93.7	0.709	

Page 1 of 2

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

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-8.qld

Last Altered:	Monday, June 08, 2020 14:31:23 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:33:17 Pacific Daylight Time

and they	# 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	3.85e5	0.49	NO	0.860	10.100	35.548	35.56	1.035	1.036	171.66	86.7	0.842	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.20e5	0.43	NO	0.774	10.100	37.296	37.33	1.086	1.087	158.48	80.0	0.675	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.17e5	0.44	NO	0.521	10.100	39.325	39.28	1.145	1.144	160.11	80.9	1.00	
34	34 13C-OCDF	5.29e5	0.91	NO	0.746	10.100	41.921	41.90	1.221	1.220	272.05	68.7	0.625	
35	35 37CI-2,3,7,8-TCDD	2.51e5			1.04	10.100	26.507	26.47	1.028	1.026	75.260	95.0	0.0442	
36	36 13C-1,2,3,4-TCDD	6.38e5	0.79	NO	1.00	10.100	25.890	25.80	1.000	1.000	198.02	100	0.247	
37	37 13C-1,2,3,4-TCDF	9.61e5	0.79	NO	1.00	10.100	24.360	24.10	1.000	1.000	198.02	100	0.348	
38	38 13C-1,2,3,4,6,9-HxCDF	5.16e5	0.51	NO	1.00	10.100	34.420	34.34	1.000	1.000	198.02	100	0.724	
39	39 Total Tetra-Dioxins				0.888	10.100	24.620		0.000		0.10161		0.0400	0.102
40	40 Total Penta-Dioxins				0.908	10.100	29.960		0.000		0.00000		0.0449	0.0380
41	41 Total Hexa-Dioxins				0.892	10.100	33.635		0.000		0.34575		0.0984	0.346
42	42 Total Hepta-Dioxins				0.864	10.100	37.640		0.000		1.9299		0.147	1.93
43	43 Total Tetra-Furans				0.751	10.100	23.610		0.000				0.0186	
44	44 1st Func. Penta-Furans				0.893	10.100	27.580		0.000				0.00976	
45	45 Total Penta-Furans				0.893	10.100	29.275		0.000				0.0197	
46	46 Total Hexa-Furans				0.934	10.100	33.555		0.000		0.00000		0.0185	0.0600
47 10	47 Total Hepta-Furans				0.873	10.100	37.835		0.000				0.0263	

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-8.qld

Last Altered:	Monday, June 08, 2020 14:31:23 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:33:17 Pacific Daylight Time

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Name: 200607R1_8, Date: 07-Jun-2020, Time: 14:06:38, ID: 2001005-05 PDI-164SC-A-04-05-200426 11.6, Description: PDI-164SC-A-04-05-200426

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Dioxins	24.30	2.306e3	3.204e3	1.339e2	1.638e2	0.82	NO	2.977e2	0.10161	0.10200	0.0400

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	John DL
Total Penta-Dioxins	29.56	1.484e3	4.475e3	3.577e1	1.593e2	0.22	YES	0.0 00 e0	0.00000	0.038000	0.0449

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	nły	Resp	Conc	EMPC	DL
1 Total Hexa-Dioxins	33.32	7.198e3	6.833e3	3.368e2	2.800e2	1.20	NO	6.168e2	0.34575	0.34600	0.0984

Hepta-Dioxins

Name	Person in the second	RT mi H	eight m	2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc:	EMPC	DL
1 Total He	ota-Dioxins 3	7.72 1.0	36e4 8	3.226e3	7.848e2	6.859e2	1.14	NO	1.471e3	1.2482	1.2480	0.147
2 1,2,3,4,6	7,8-HpCDD 3	8.76 6.1	62e3 6	6.246e3	3.972e2	4.059e2	0.98	NO	8.032e2	0.68169	0.68200	0.147

Tetra-Furans

Name	RT	m1 Height, m2 Height	m1 Resp	m2 Resp	RA NY	Resp -	Conc	EMPC	DE
TELESCORE STATE									

Penta-Furans function 1

Name	RI	m1 Height m2 Heigh	m1 Resp m2	Resp RA nA	Resp	Conc	EMPORENDE
1							

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-8.qld

Last Altered:	Monday, June 08, 2020 14:31:23 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:33:17 Pacific Daylight Time

Name: 200607R1_8, Date: 07-Jun-2020, Time: 14:06:38, ID: 2001005-05 PDI-164SC-A-04-05-200426 11.6, Description: PDI-164SC-A-04-05-200426

Penta-Furans

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

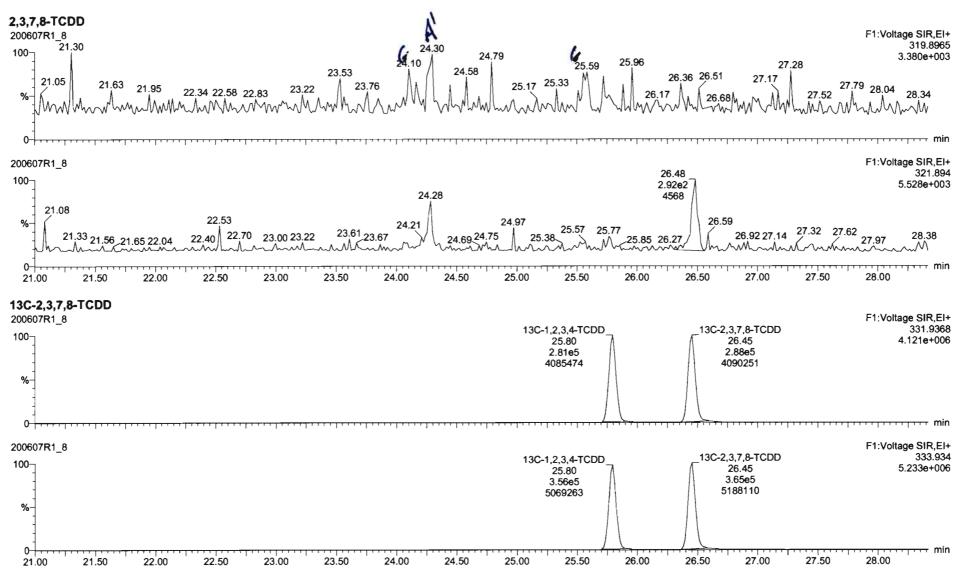
Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	-DL
1,2,3,7,8,9-HxCDF	35.57	2.252e3	2.292e3	5.588e1	7.194e1	0.78	YES	1.278e2	0.00000	0.060000	0.0277

Hepta-Furans

Name	RTM	m1 Height n	n2 Height	m1 Resp	m2 Resp	RA n/y	Resp	Conc	EMPO	DL
1-1-2 - 2 - 2 - 2										

Quantify Sam Vista Analytica		Page 66 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



TargetLynx-200007R1-8*- [Chromatogram]

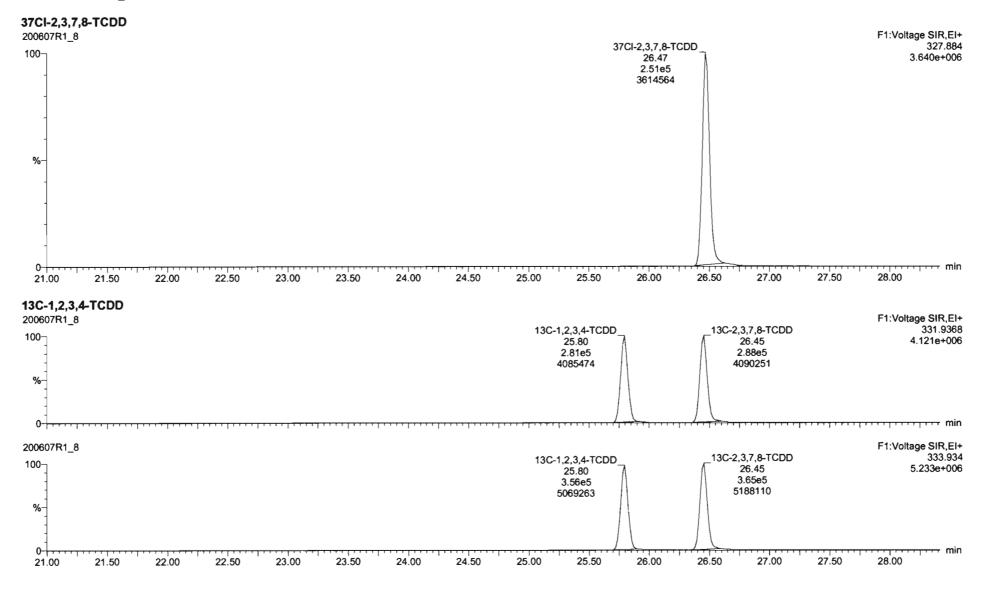
Name Resp RA ny RF vd/vol RT RRT Conc. %Rec DL EMPC 39 Total Tetra-Dixons 0.0883 10.100 0.102 0.0400 0.102 40 Total Perta-Dixons 0.09081 10.100 0.0449 0.0449 41 Total Henz-Dixons 0.0863 10.100 0.0449 0.0449 42 Total Henz-Dixons 0.0863 10.100 0.1178 0.145 1.78 43 Total Tetra-Furans 0.7510 10.100 0.0145 1.78 0.0145 1.78 43 Total Tetra-Furans 0.7510 10.100 0.0166 0.0186 0.0186 1 Total Tetra-Furans 2.4.30 1.3382 1.63842 0.62 NO 0.0105	
0 Total Perda-Dovans 0 0.9081 10.100 0.0449 1 Total Hexo-Dovans 0 0.8923 10.100 0.349 0.389 2 Total Hexo-Dovans 0 0.8659 10.100 1.78 0.145 1.78 3 Total Tetre-Furans 0 0.7510 10.100 0.0186 0.0186 Name RT m1 Resp m2 Resp RA hy EMPC Conc.	-
Total Hexa-Doxins 0.8923 1010 0.349 0.0894 0.349 Total Hepte-Doxins 0.9639 1010 1.78 0.145 1.78 Total Hepte-Doxins 0.7510 10.100 1.78 0.0186 Name RT m1 Resp m2 Resp RA ny BMPC Conc.	
Total Hepte-Dixxins 0.9639 10.100 1.78 0.145 1.78 Total Tetre-Furans 0.7510 10.100 0.0186 0.0186 0.0186 Name RT m1 Resp RA ny BMPC Conc.	
Total Tetra-Furans 0.7510 0.0186 Name R1 m1 Resp m2 Resp RA nly BMPC Conc.	
Total Tetra-Doxins 24.30 1.339e2 1.638e2 0.62 NO 0.10161 0.10161	
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23.53	27.28
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_Total Tetra-Dioxins 26.48	1.9976*
24.28	
22 53 22 20 22 20 22 20 23 00 23 18 23 22 23 46 23 57 23 61 23 67 23 66 23 99 24 05 24 21 163 81 24 97 24 97 26 57 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72 25 72	
	27 32 27 44 27.62 27.65
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25 80 13C-2 3 7 8-TCDD 26 45 287586 91 4090251	41218-
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Work Order 2001005

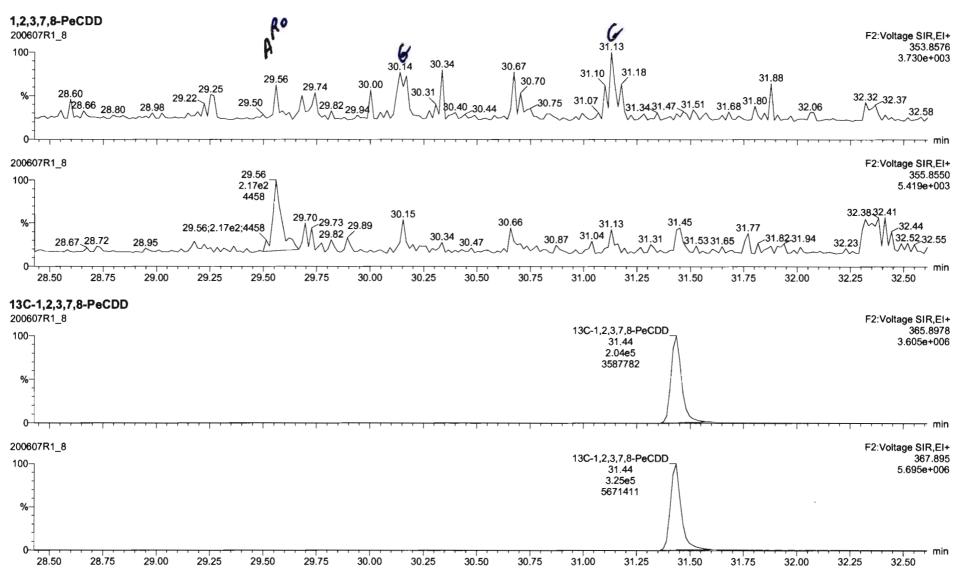
Page 204 of 694

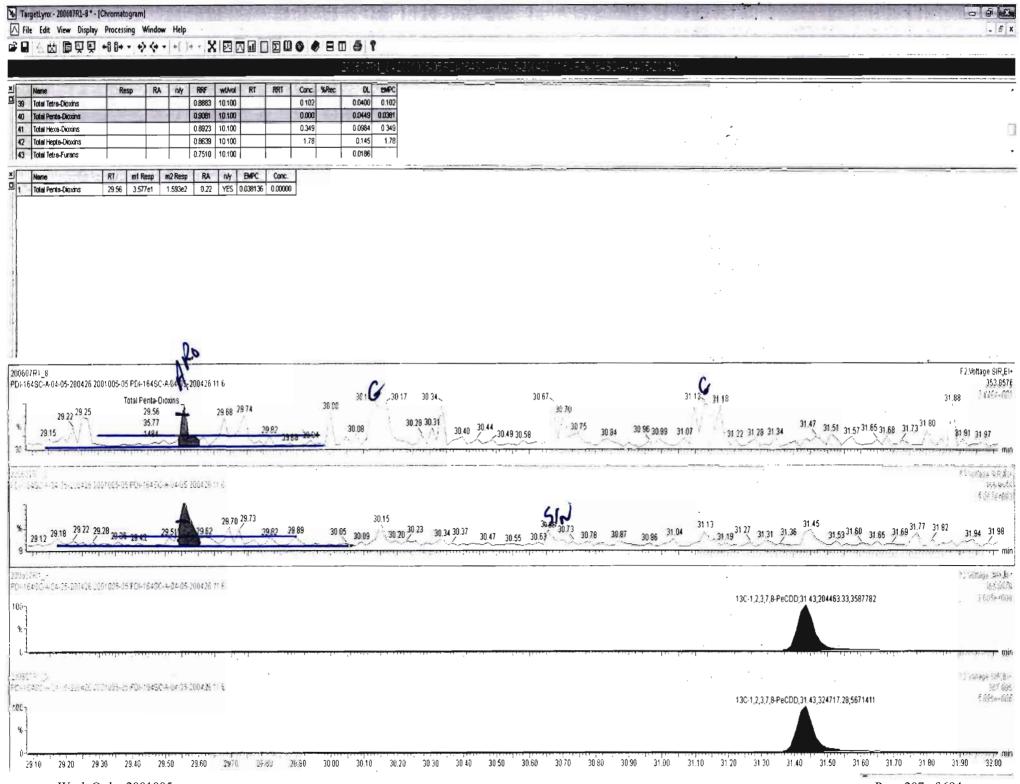
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Quantify Sam Vista Analytica	• •	Page 67 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



Quantify San Vista Analytica		MassLynx 4.1 SCN815	Page 68 of 182
Dataset:	Untitled		
Last Altered: Printed:		08, 2020 07:40:53 Pacific Daylight Time 08, 2020 07:43:34 Pacific Daylight Time	

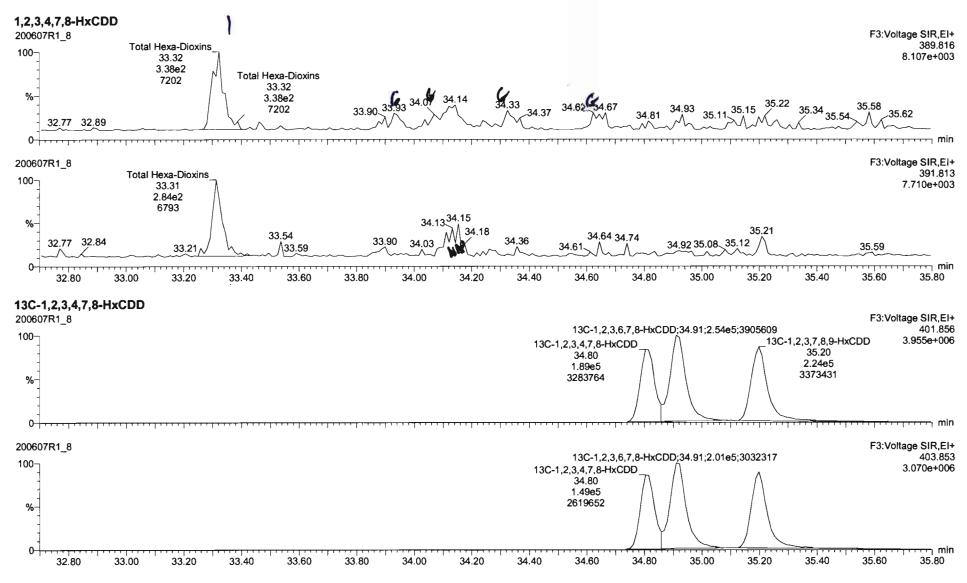


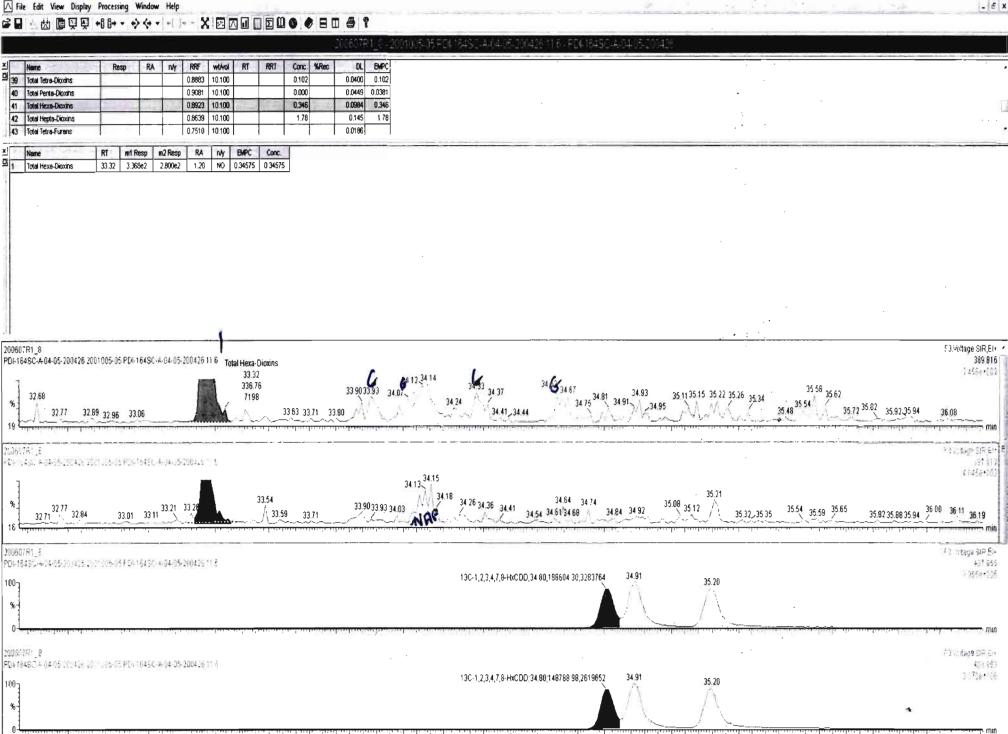


Work Order 2001005

Page 207 of 694

Quantify Sam Vista Analytica		Page 69 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	





32.70 32.80 32.90 33.00 33.10 33.20 33.30 33.40 33.50 33.60 33.70 33.80 33.90 34.00 34.10 34.20 34.30 34.40 34.50 34.60 34.70 34.80 34.90 35.10 35.20 35.30 35.40 35.50 35.50 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.60 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 35.70 3

Work Order 2001005

3 TargetLynx - 200607R1-8* - [Chromatogram]

Page 209 of 694

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ame: 200607	7R1_8, Date: 07	Jun-2020, Time: 14:06:38, ID: 2001005-05 PDI-164SC-A-04-05-200426	11.6, Description: PDI-164SC-A-04-05-200426
2,3,4,6,7,8-H 0607R1_8	lpCDD	1	F4:Voltage SIR,E
		Total Hepta-Dioxins 37.72 7.52e2 10205	1,2,3,4,6,7,8-HpCDD 423.77 38.76 1.132e+00 3.85e2 6090
%	1 36.66	37.30 37.59 37.59	\wedge
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0607R1_8		Total Hepta-Dioxins 37.72 6.69e2	F4:Voltage SIR,E 425.77 1,2,3,4,6,7,8-HpCDD;38.74;3.87e2;6136 9.173e+00
% -		8143 Total Hepta-Dioxins;37.72;6.69e2;8143 37.95 38.04	1,2,3,4,6,7,8-HpCDD;38.74;3.87e2;6136
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36.40		30 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 40.00
3C-1,2,3,4,6, 00607R1_8	7,8-HpCDD	13C-1,2,3,4,6,7	F4:Voltage SIR,E 435.81
10		38.7	3 1.912e+00
%			
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00-]		13C-1,2,3,4,6,7 38.7 1.42e	′,8-HpCDD

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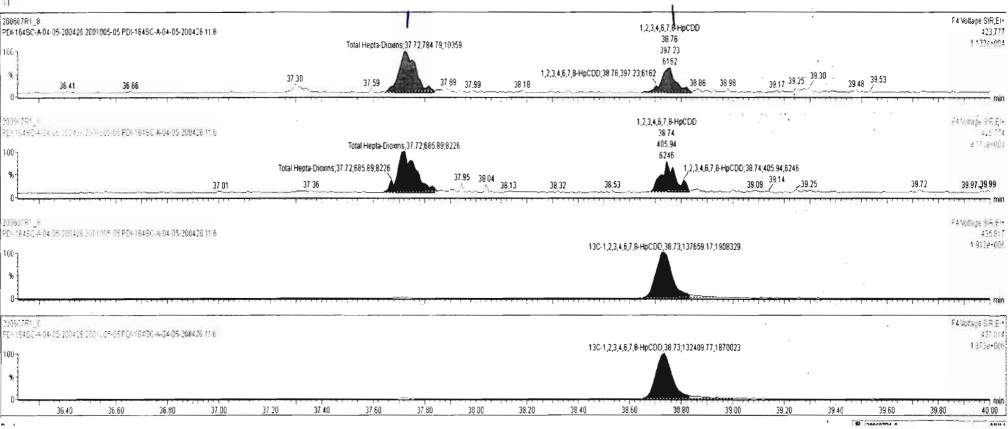
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0/607R1 8+2001065/05 FEIL164SC/4/04/05/200428 11/8+ FEIL164SC/4/04/05/200428

	Name	Resp	RA	nly.	RRF	WUNDI	RT	RRT	Canc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8883	10.100			0.102		0.0400	0.102
40	Total Penta-Dioxins				0.9081	10.100			0.000		0.0449	0.0381
41	Total Hexa-Dioxins				0.8923	10.100			0.346		0.0984	0 346
42	Total Hepta-Dioxins	S 12 18-16	1230		0.8639	10.100	SPIT	10	1.93	120	0.147	1.93
43	Total Tetra-Furans			1.0	0.7510	10.100					0.0186	

×	Name	RT	mi Resp	m2 Resp	RA	nly	EMPC	Conc.
P 1	Total Hepta-Dioxins	37,72	7.848e2	6.859e2	1.14	NO	1,2482	1.2482
2	1,2,3,4,6,7,8-HpCDD	38.76	3.972e2	4.059e2	0.96	NO	0.68169	0.68169

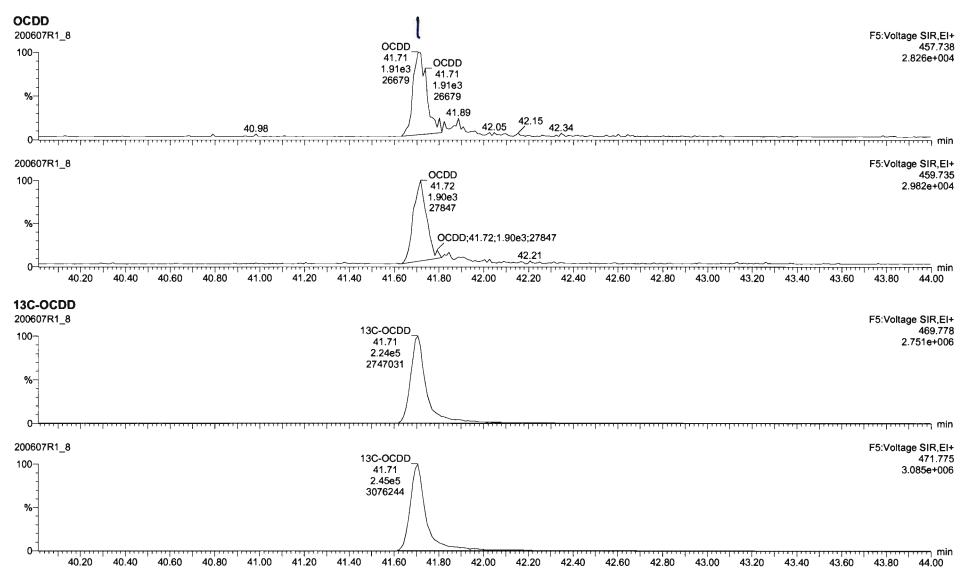


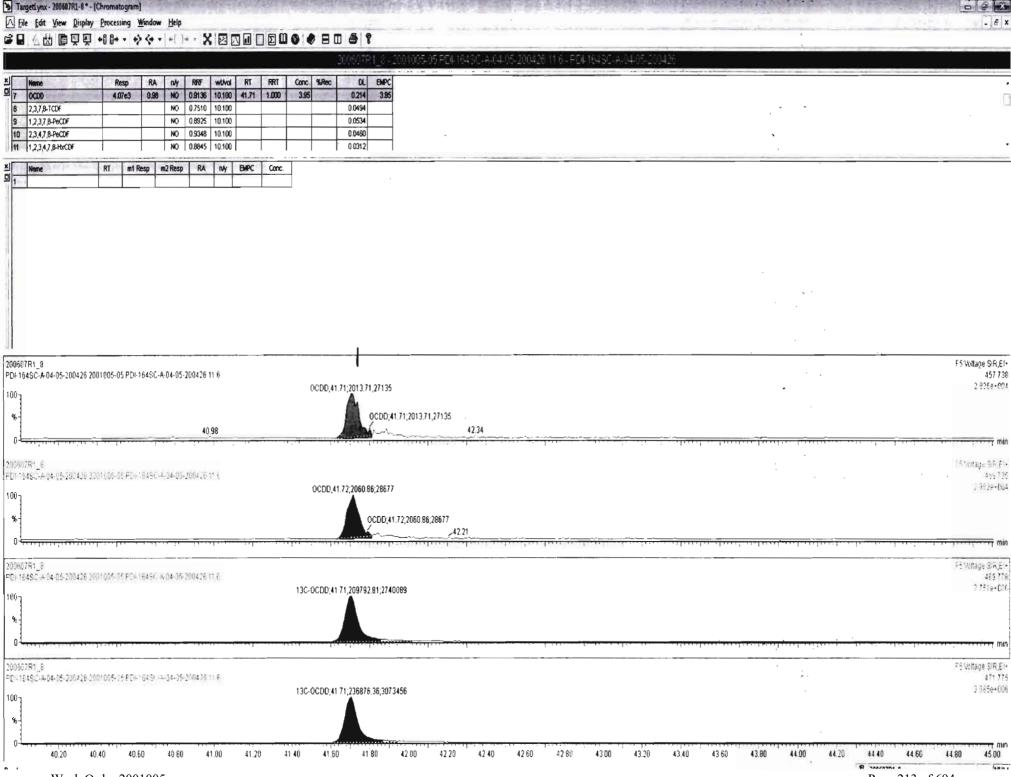
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Page 211 of 694

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Quantify San Vista Analytica		15	Page 71 of 182
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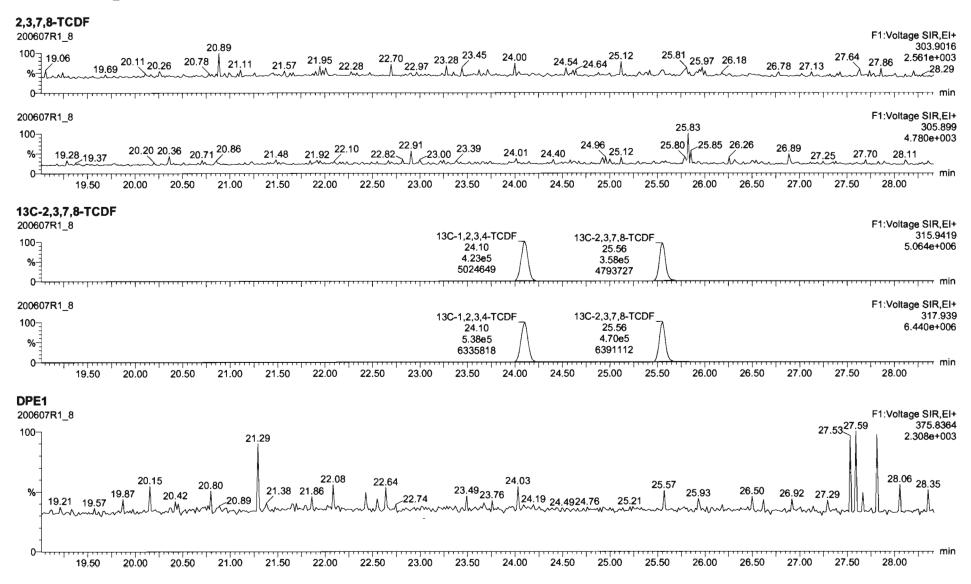




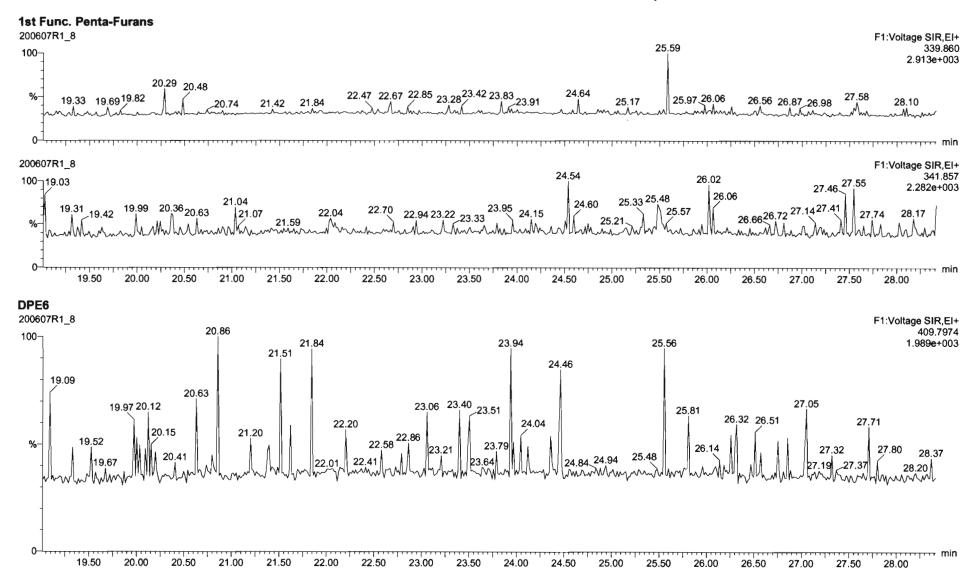
Work Order 2001005

Page 213 of 694

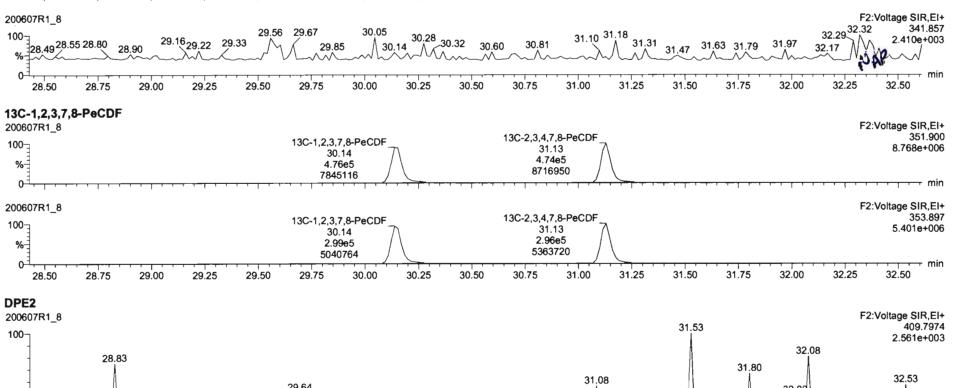
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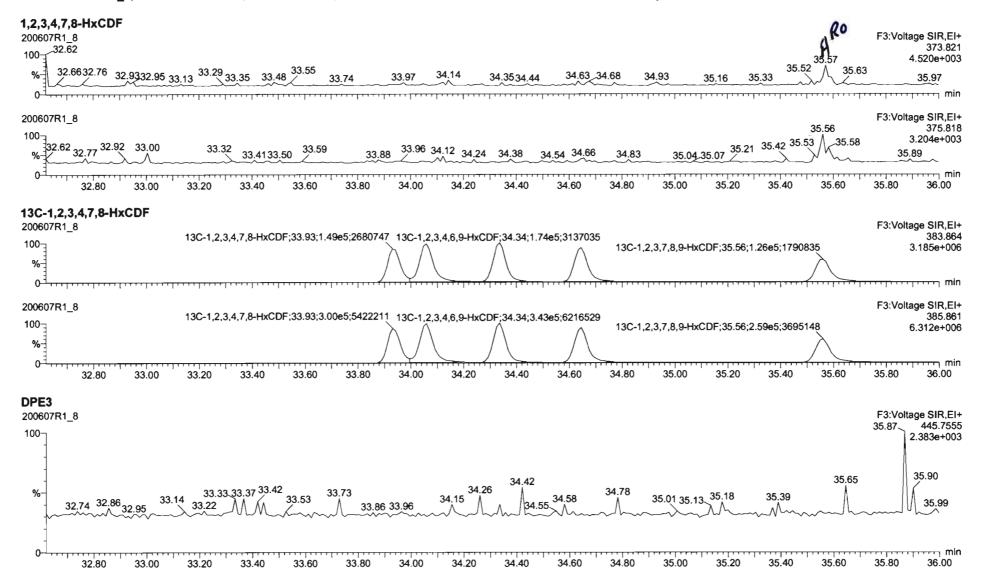
Quantify San Vista Analytica		Page 73 of 182
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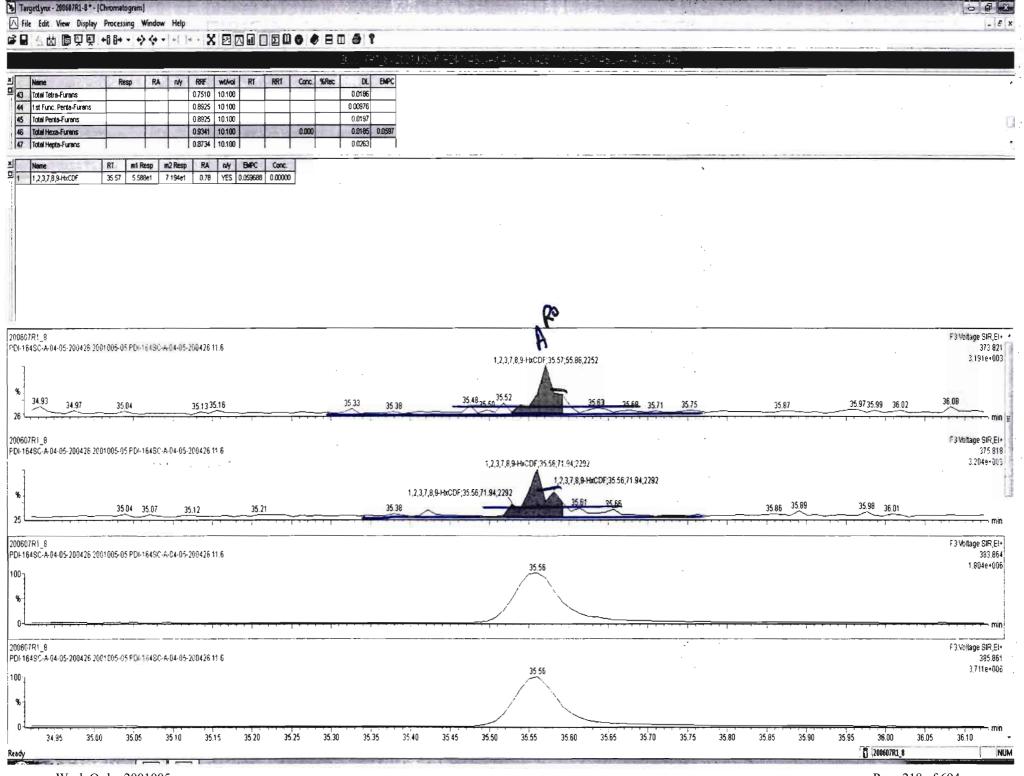


Quantify Sam Vista Analytica		Page 74 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	
Name: 20060	7R1_8, Date: 07-Jun-2020, Time: 14:06:38, ID: 2001005-05 PDI-164SC-A-04-05-200426 11.6, Description: PDI-164SC-A-04-05-2004	26
1,2,3,7,8-PeC 200607R1_8	DF	F2:Voltage SIR,EI
100- ₃	29.45 $28.95 - 22.20 = 22.00$ $31.08 - 31.27 = 31.50$	339.86 32.38 3.262e+00
% 28.44 28.6		9 32.35 32.58
0 ⁻¹		



Quantify San Vista Analytica	• • •	Page 75 of 182
Dataset:	Untitled	
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Name: 20060	7R1_8, Date: 07-Jun-2020, Time: 14:06:38, ID: 2001005-05 PDI-164SC-A-04-05-200426	11.6. Description: PDI-164SC-A-04-05-200426

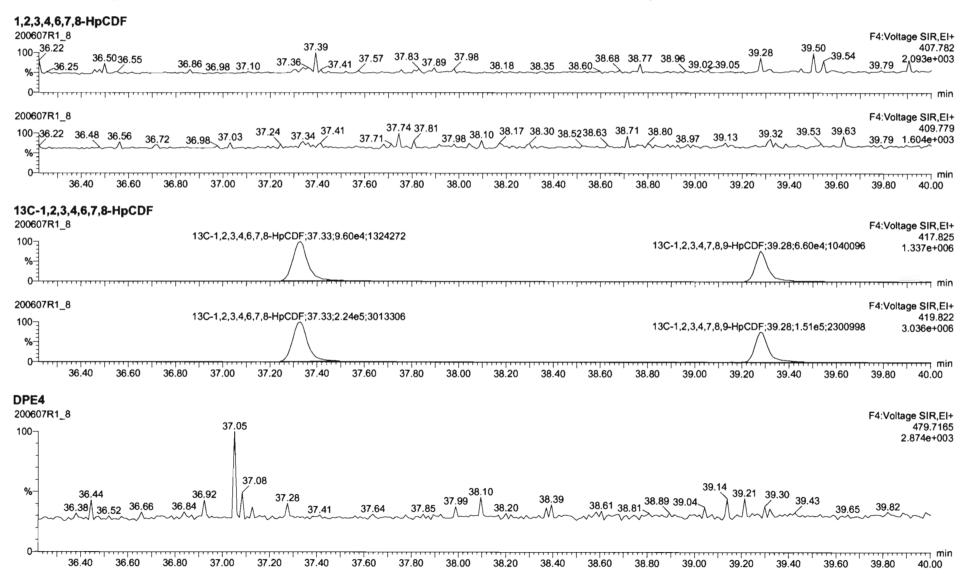




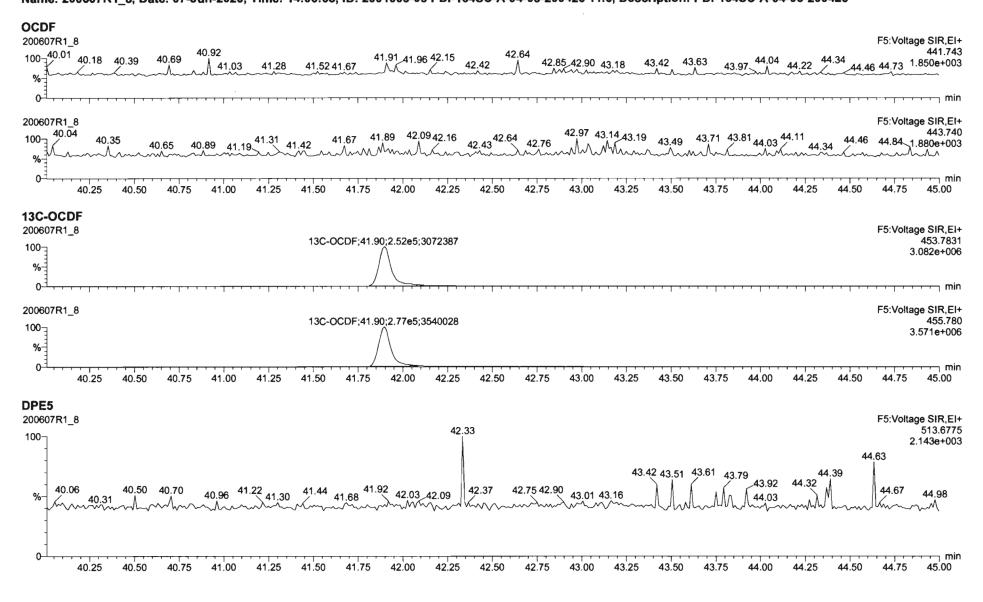
Work Order 2001005

Page 218 of 694

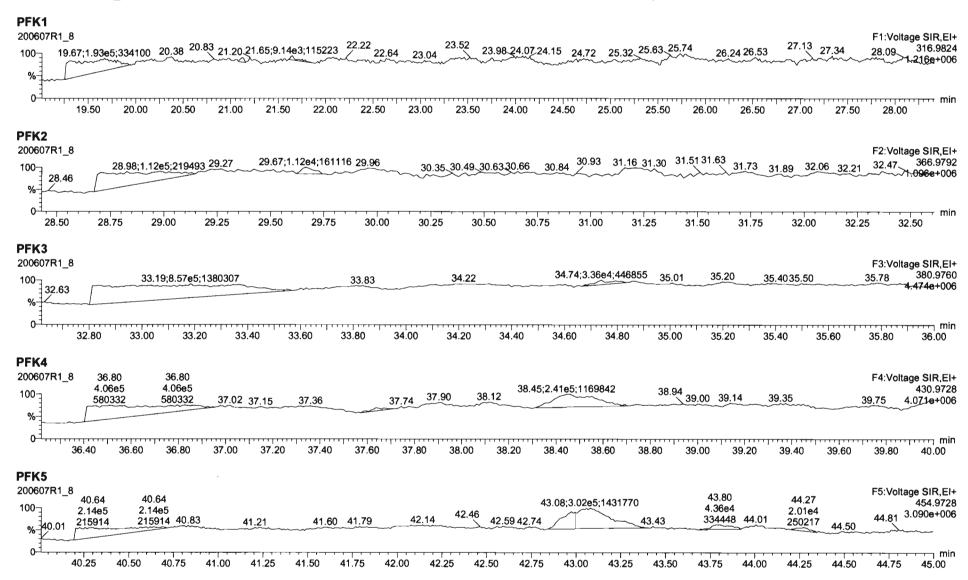
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Quantify Sam Vista Analytica		Page 77 of 182
Dataset:	Untitled	
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Quantify San Vista Analytica		Page 78 of 182
Dataset:	Untitled	
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Quantify San Vista Analytica	nple Summary Report al Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\20	0607R1\200607R1-9.qld	
Last Altered: Printed:		4:51:40 Pacific Daylight Time 6:25:47 Pacific Daylight Time	

Cy 06-08-2020 Cy 06/09/2020

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

Name: 200607R1_9, Date: 07-Jun-2020, Time: 14:52:50, ID: 2001005-06 PDI-164SC-A-05-06-200426 10.95, Description: PDI-164SC-A-05-06-200426

SHIER WAR	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
R. Automatic Jac	1 2,3,7,8-TCDD			NO	0.888	10.040	26.486		1.001				0.0865	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.040	31.457		1.001				0.106	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.040	34.814		1.000				0.0909	
4	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.040	34.911		1.000				0.0907	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.040	35.209		1.000				0.105	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	10.040	38.736		1.000				0.109	
7	7 OCDD	6.70e2	0.99	NO	0.914	10.040	41.716	41.72	1.000	1.000	0.67073		0.154	0.671
8	8 2,3,7,8-TCDF			NO	0.751	10.040	25.582		1.001				0.0439	
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.040	30.175		1.001				0.0461	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.040	31.161		1.001				0.0407	
117日的。古	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.040	33.931		1.000				0.0310	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.040	34.069		1.000				0.0279	
181	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.040	34.680		1.001				0.0293	
14 THERE	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.040	35.561		1.000				0.0484	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.040	37.355		1.001				0.0472	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.040	39.278		1.000				0.0518	
17	17 OCDF			NO	0.806	10.040	41.908		1.000				0.0985	
18	18 13C-2,3,7,8-TCDD	5.56e5	0.80	NO	1.16	10.040	26.476	26.45	1.026	1.026	133.53	67.0	0.227	
19	19 13C-1,2,3,7,8-PeCDD	4.47e5	0.63	NO	0.849	10.040	31.656	31.43	1.227	1.219	146.15	73.4	0.547	
20	20 13C-1,2,3,4,7,8-HxCDD	3.02e5	1.27	NO	0.779	10.040	34.820	34.80	1.014	1.014	136.33	68.4	0.476	
21	21 13C-1,2,3,6,7,8-HxCDD	4.02e5	1.27	NO	1.02	10.040	34.933	34.91	1.017	1.017	138.96	69.8	0.364	
22 23 24	22 13C-1,2,3,7,8,9-HxCDD	3.68e5	1.26	NO	0.903	10.040	35.205	35.20	1.025	1.025	143.16	71.9	0.410	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.76e5	1.05	NO	0.689	10.040	38.728	38.72	1.128	1.128	140.74	70.6	0.499	
24	24 13C-OCDD	4.36e5	0.90	NO	0.652	10.040	41.749	41.72	1.216	1.215	234.79	58.9	0.693	
25	25 13C-2,3,7,8-TCDF	7.16e5	0.78	NO	1.06	10.040	25.519	25.56	0.989	0.991	128.10	64.3	0.294	
26	26 13C-1,2,3,7,8-PeCDF	6.47e5	1.58	NO	0.838	10.040	30.041	30.15	1.165	1.169	146.23	73.4	0.491	
27	27 13C-2,3,4,7,8-PeCDF	6.35e5	1.61	NO	0.817	10.040	30.993	31.13	1.202	1.207	147.34	74.0	0.503	
28 14 1	28 13C-1,2,3,4,7,8-HxCDF	3.94e5	0.50	NO	1.01	10.040	33.951	33.93	0.989	0.988	137.51	69.0	0.883	
29	29 13C-1,2,3,6,7,8-HxCDF	4.85e5	0.51	NO	1.17	10.040	34.075	34.06	0.992	0.992	146.00	73.3	0.762	
30	30 13C-2,3,4,6,7,8-HxCDF	4.34e5	0.52	NO	1.02	10.040	34.648	34.65	1.009	1.009	149.25	74.9	0.871	

Page 1 of 2

Quantify Sample Summary Report	MassLynx 4.1 SCN815
Vista Analytical Laboratory	

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-9.qld

Last Altered:	Monday, June 08, 2020 14:51:40 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:25:47 Pacific Daylight Time

Alerna Sector	# Name	Resp	RA	n/y	RRF.	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	Rec	DL I	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	3.25e5	0.49	NO	0.860	10.040	35.548	35.56	1.035	1.036	133.10	66.8	1.04	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.02e5	0.42	NO	0.774	10.040	37.296	37.32	1.086	1.087	136.87	68.7	0.630	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.09e5	0.40	NO	0.521	10.040	39.325	39.28	1.145	1.144	140.99	70.8	0.936	
34	34 13C-OCDF	5.21e5	0.91	NO	0.746	10.040	41.921	41.91	1.221	1.220	245.51	61.6	0.636	
35	35 37CI-2,3,7,8-TCDD	2.05e5			1.04	10.040	26.507	26.48	1.028	1.027	54.791	68.8	0.0736	
36	36 13C-1,2,3,4-TCDD	7.17e5	0.78	NO	1.00	10.040	25.890	25.80	1.000	1.000	199.21	100	0.263	
37	37 13C-1,2,3,4-TCDF	1.05e6	0.78	NO	1.00	10.040	24.360	24.10	1.000	1.000	199.21	100	0.311	
38	38 13C-1,2,3,4,6,9-HxCDF	5.67e5	0.51	NO	1.00	10.040	34.420	34.34	1.000	1.000	199.21	100	0.890	
39 40 = = -	39 Total Tetra-Dioxins				0.888	10.040	24.620		0.000				0.0485	
40	40 Total Penta-Dioxins				0.908	10.040	29.960		0.000				0.0571	
	41 Total Hexa-Dioxins				0.892	10.040	33.635		0.000		0.10561		0.0508	0.106
42	42 Total Hepta-Dioxins				0.864	10.040	37.640		0.000				0.0737	
43	43 Total Tetra-Furans				0.751	10.040	23.610		0.000				0.0159	
4	44 1st Func. Penta-Furans				0.893	10.040	27.580		0.000				0.00995	
45	45 Total Penta-Furans				0.893	10.040	29.275		0.000				0.0197	
46	46 Total Hexa-Furans				0.934	10.040	33.555		0.000				0.0194	
470	47 Total Hepta-Furans				0.873	10.040	37.835		0.000				0.0287	

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-9.qld

Last Altered:Monday, June 08, 2020 14:51:40 Pacific Daylight TimePrinted:Monday, June 08, 2020 16:25:47 Pacific Daylight Time

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

Name: 200607R1_9, Date: 07-Jun-2020, Time: 14:52:50, ID: 2001005-06 PDI-164SC-A-05-06-200426 10.95, Description: PDI-164SC-A-05-06-200426

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

Name	RT	m1 Height.	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Hexa-Dioxins	33.31	2.766e3	1.596e3	9.461e1	7.438e1	1.27	NO	1.690e2	0.10561	0.10600	0.0508

Hepta-Dioxins

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

Tetra-Furans

Name RT m1 Height m2 Height m1 Resp m2 Resp. RA n/y Resp. Conc. EMPG D

Penta-Furans function 1

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

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-9.qld

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Name: 200607R1_9, Date: 07-Jun-2020, Time: 14:52:50, ID: 2001005-06 PDI-164SC-A-05-06-200426 10.95, Description: PDI-164SC-A-05-06-200426

Penta-Furans

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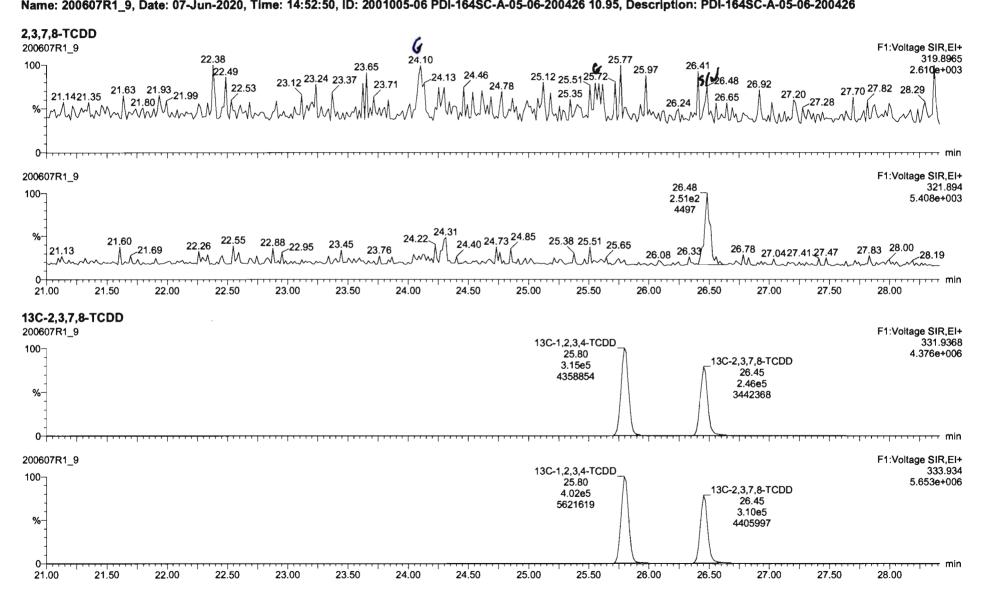
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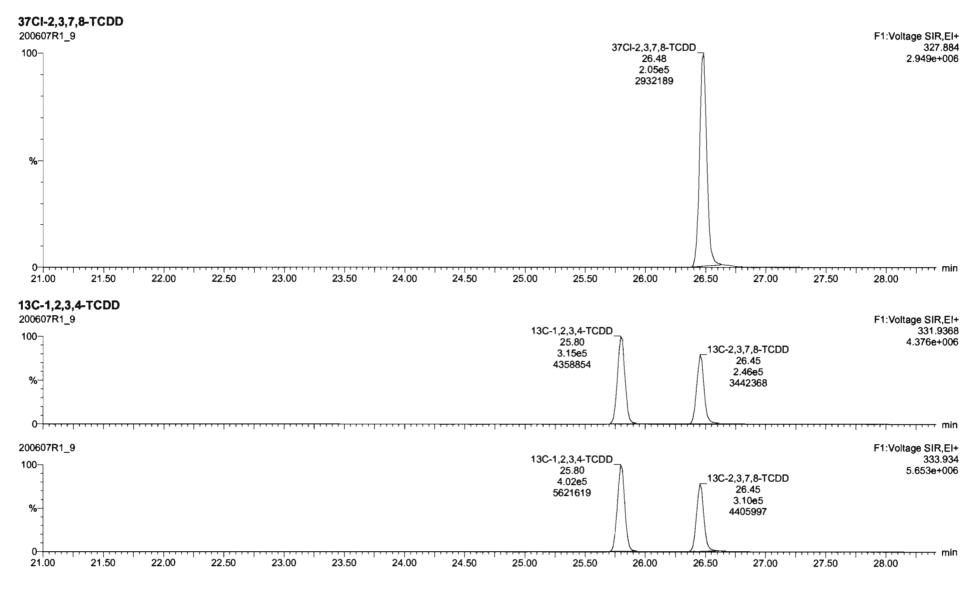
Hepta-Furans

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

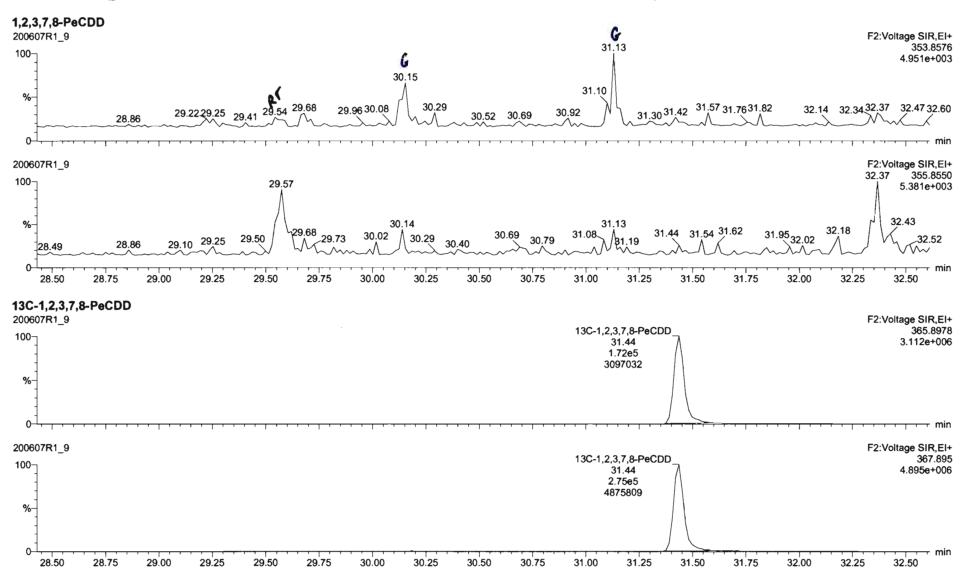
Quantify Sam Vista Analytica		Page 79 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



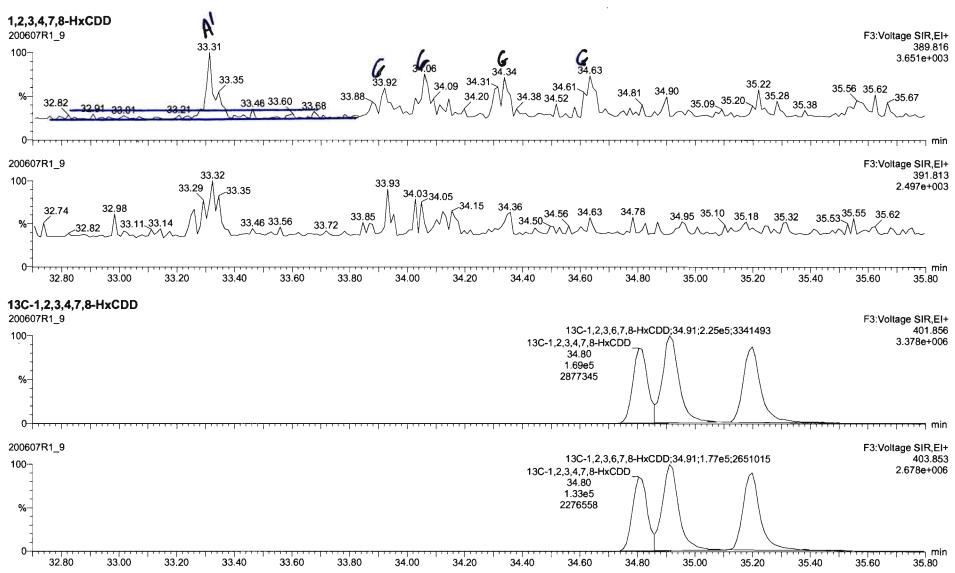
Quantify Sam Vista Analytica		MassLynx 4.1 SCN815	Page 80 of 182
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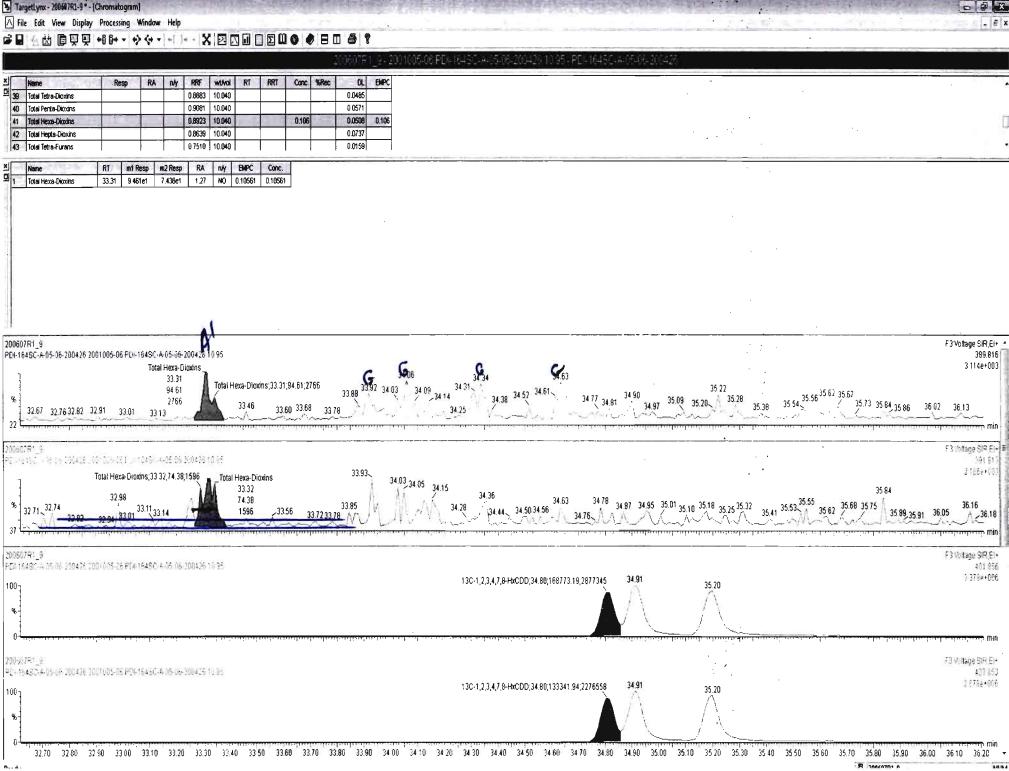


Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 81 of 182
Dataset:	Untitled		
Last Altered: Printed:		08, 2020 07:40:53 Pacific Daylight Time 08, 2020 07:43:34 Pacific Daylight Time	



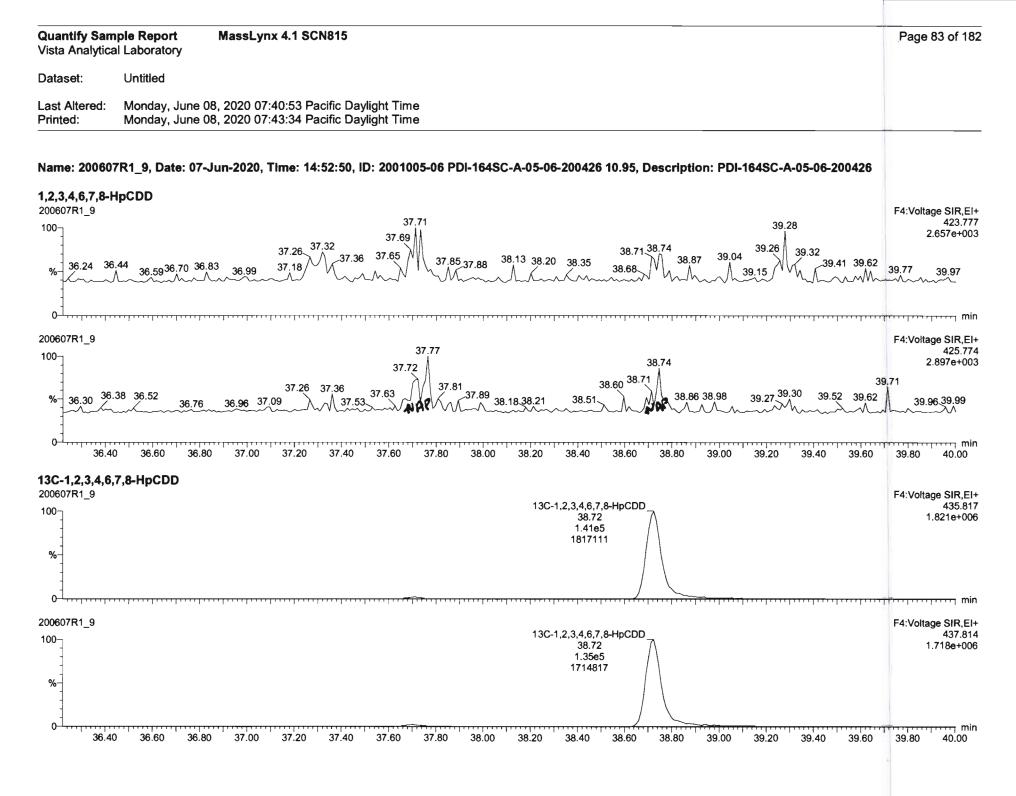
Quantify Sam Vista Analytica		Page 82 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

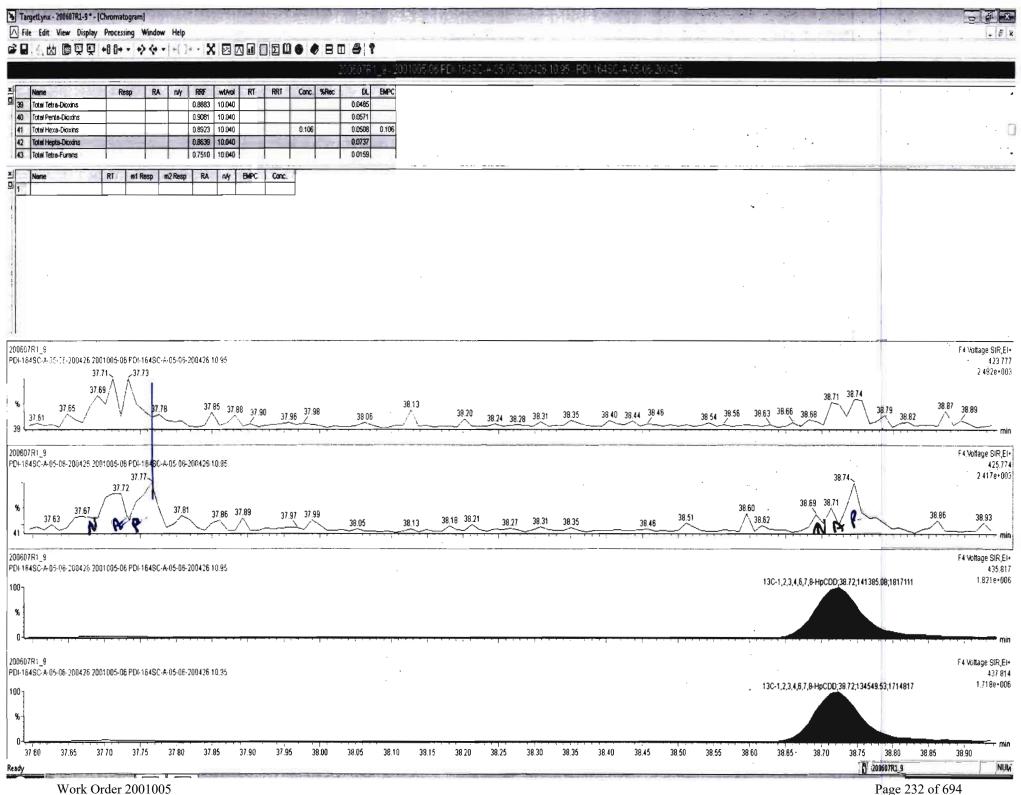


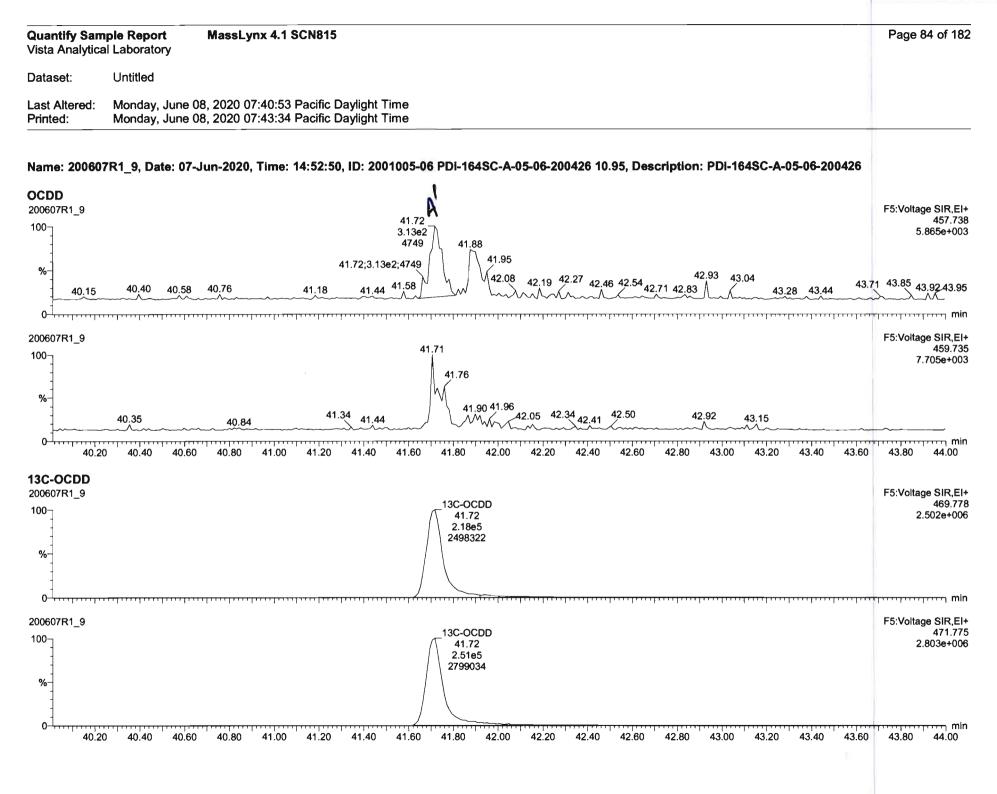


Work Order 2001005

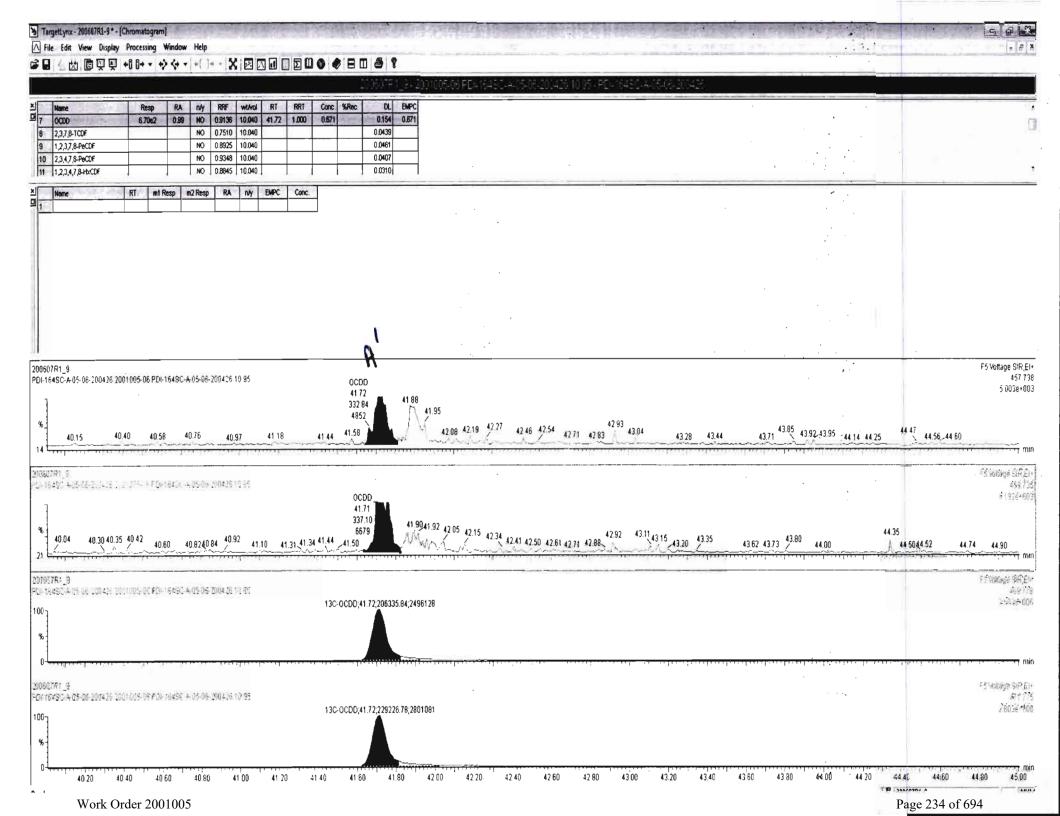
Page 230 of 694

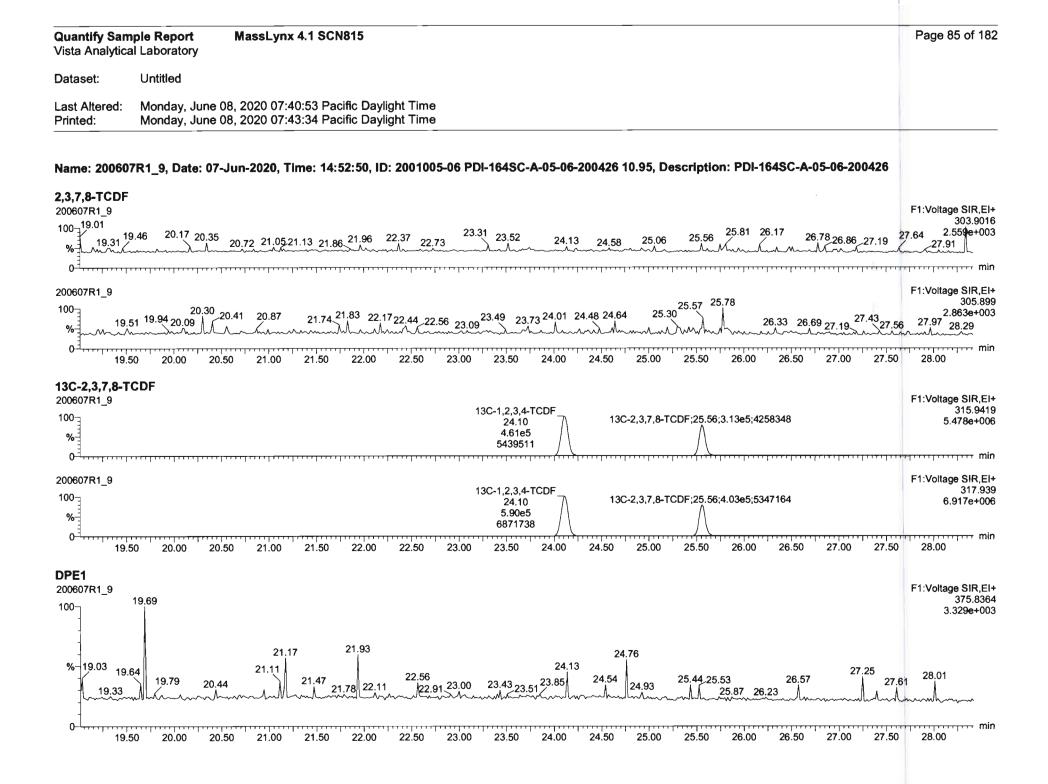


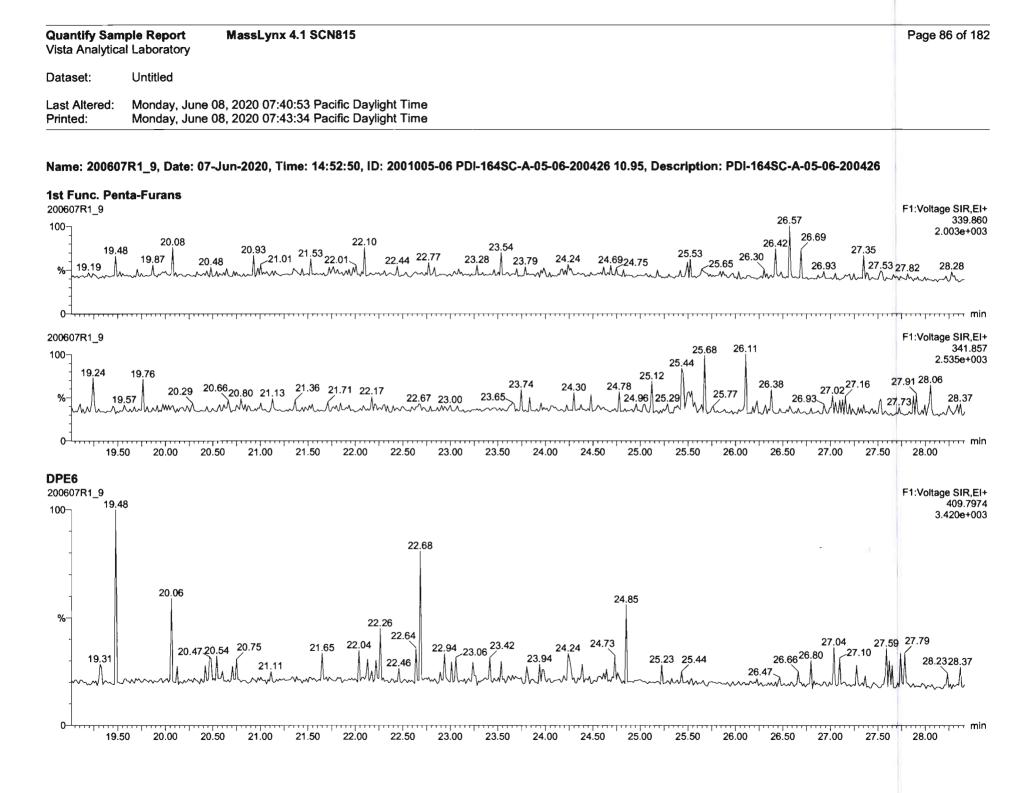


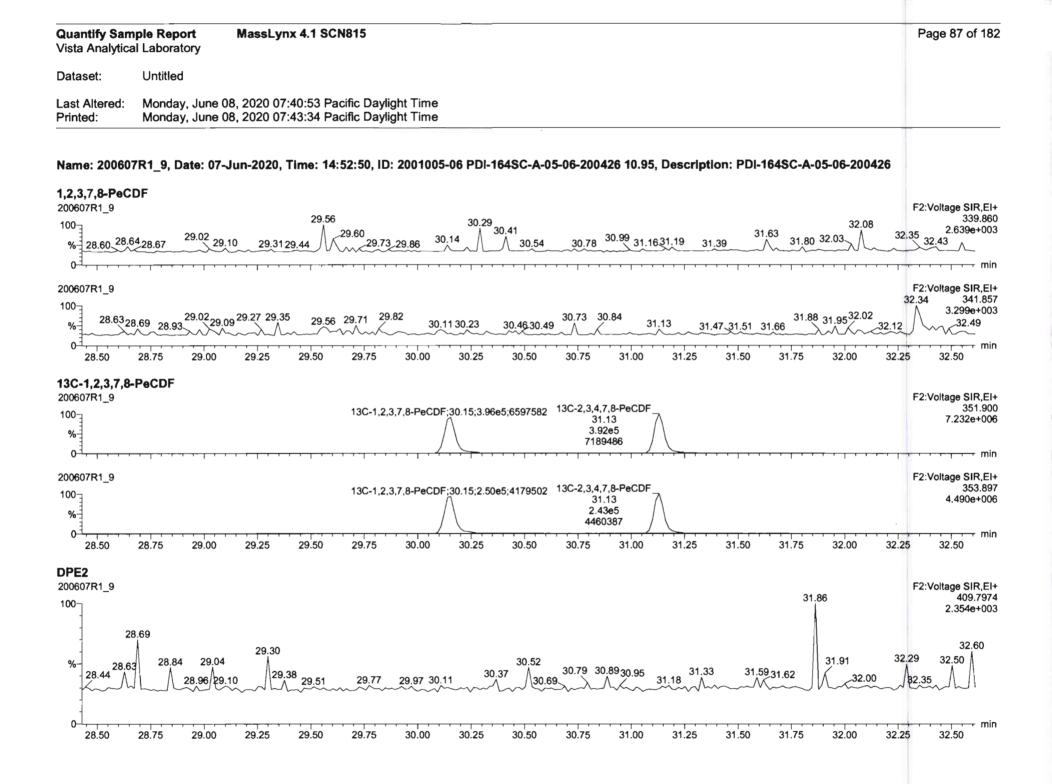


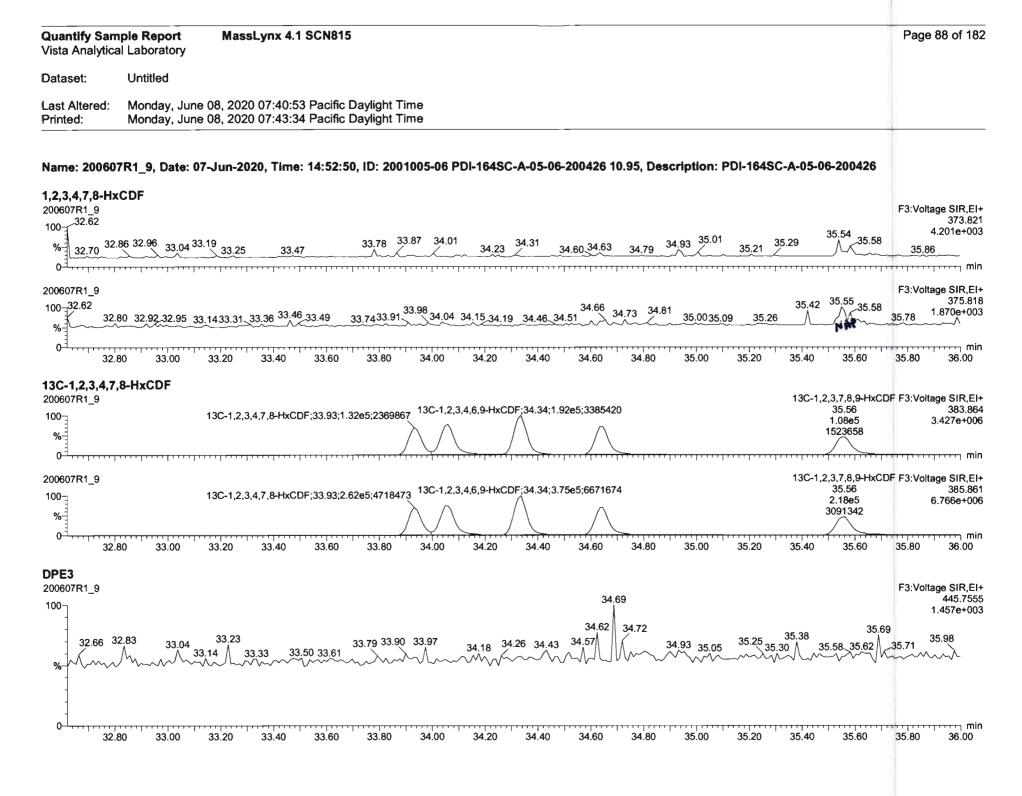
Page 233 of 694

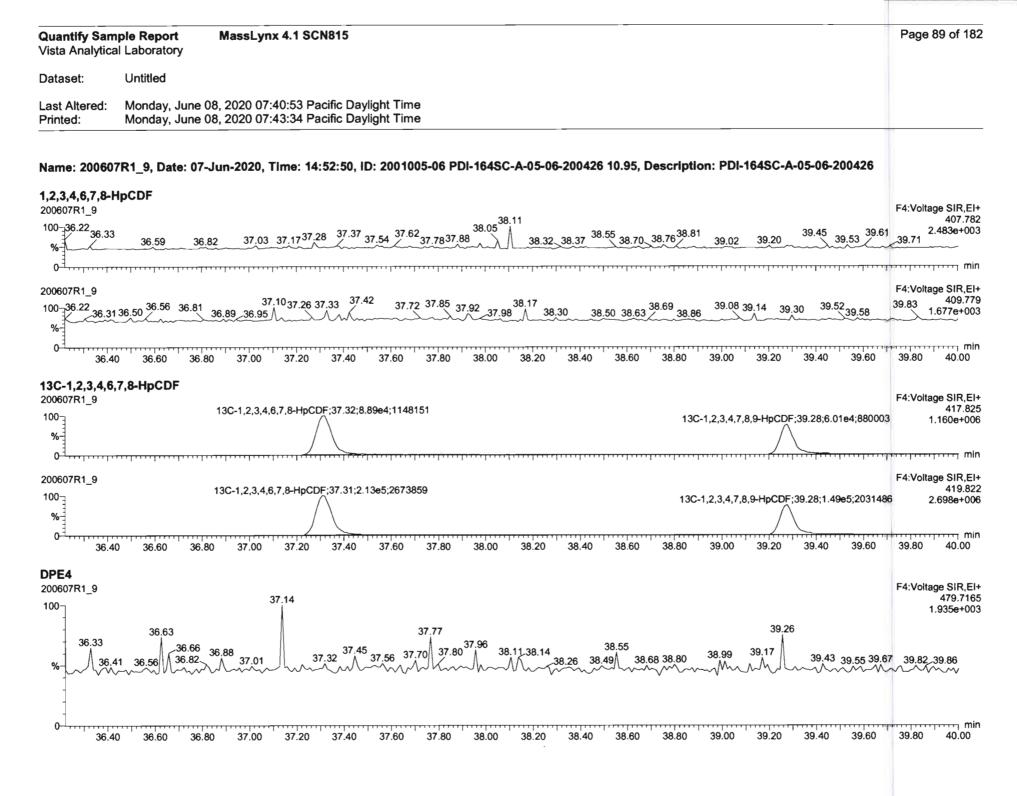


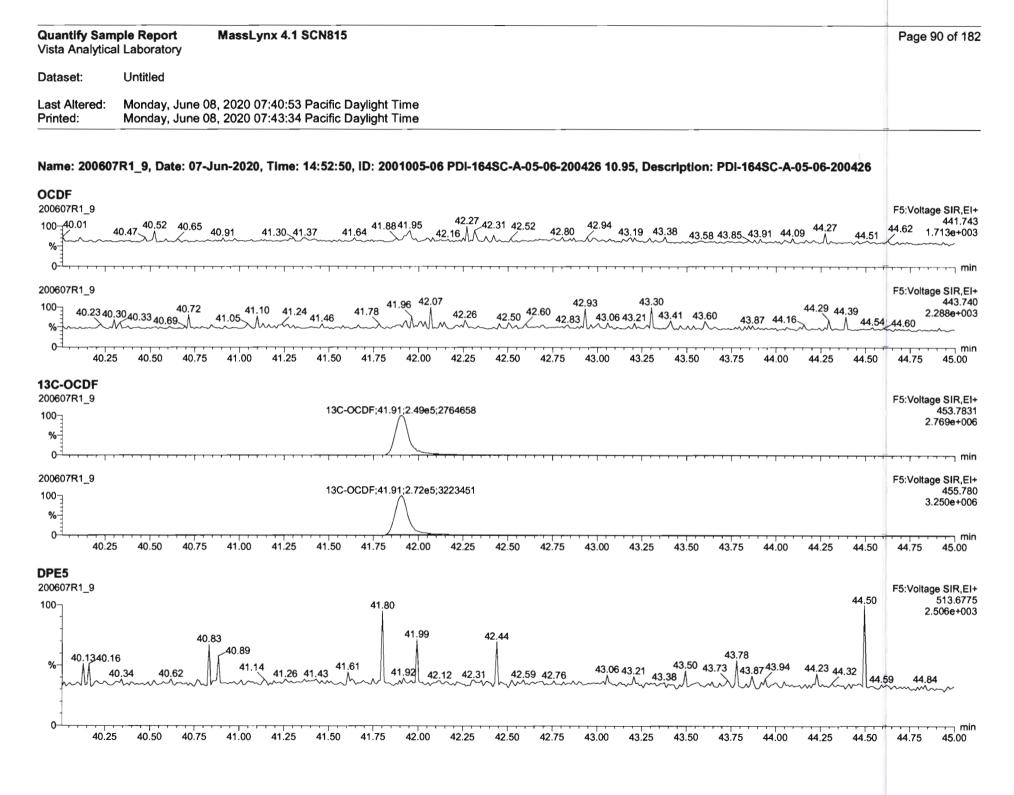












uantify Sam sta Analytica		Page 91 of 1
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0	0 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50 2	26.50 27.00 27.50 28.00
20.51 00	$1;1.03e5;436379 \begin{array}{c} 28.81;1.03e5;436379 \\ 29.53 \\ 29.91 \\ 29.91 \\ 30.21 \\ 30.21 \\ 30.21 \\ 30.58 \\ 30.67 \\ 30.76 \\ 30.76 \\ 30.76 \\ 30.84 \\ 31.11 \\ 31.28 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 31.48 \\ 3$	57 31.69 31.82 ^{31.88} 32.27 F2:Voltage SIR, 9:668e+
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	31.75 32.00 32.25 32.50
0607R1_9 0-⊐32.81;7.93e	5;2065509 32.81;7.93e5;2065509 33.89 34.07 34.34 34.46 34.57 34.87	F3:Voltage SIR 35.42 35.68;1.96e4;344512 380.9
32.62		4.436e+
) ¹ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00	5.20 35.40 35.60 35.80 36.0
K4 607R1_9	29.60	F4:Voltage SIR
36.30	3.41;2.90e5;1462346 36.93 37.07 37.34 37.52 37.69 37.87 38.07 38.11 38.37 38.62 38.69 38.90	9.12 39.38 39.65 39.79 3.401e+
0 ⁻¹	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	39.20 39.40 39.60 39.80 40.0
K5 607R1_9	24;1.57e5;759028 40.92 41.00 41.19 41.25 41.66 41.78 42.45;6.80e3;142431 42.97;1.08e5;716121 43.32 42.55 42.78 43	44.08 F5: Voltage SIR 454.0 44.81 2.278e
6		
0 ¹		*****

Quantify Sample Summary Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\20	0607R1\200607R1-10.qld	
Last Altered: Printed:		5:28:21 Pacific Daylight Time 6:21:31 Pacific Daylight Time	1

Up 06-08-2020 CIUG/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	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DLa	EMPC
15、18元	1 2,3,7,8-TCDD			NO	0.888	10.031 🔹	26.485		1.001				0.0847	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.031	31.457		1.001				0.128	- 1
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.031	34.814		1.000				0.0922	
	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.031	34.900		1.000				0.0911	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.031	35.199		1.000				0.107	
ô.	6 1,2,3,4,6,7,8-HpCDD	5.12e2	1.01	NO	0.864	10.031	38.735	38.74	1.000	1.001	0.46758		0.155	0.468
6. 7	7 OCDD	4.83e3	0.95	NO	0.914	10.031	41.695	41.72	1.000	1.000	5.0823		0.223	5.08
8	8 2,3,7,8-TCDF			NO	0.751	10.031	25.582		1.001				0.0413	Í
9	9 1,2,3,7,8-PeCDF			NO	0.893	10.031	30.160		1.001				0.0341	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.031	31.146		1.001				0.0329	
11.0	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.031	33.920		1.000				0.0375	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.031	34.058		1.000				0.0339	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.031	34.669		1.001				0.0388	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	10.031	35.549		1.000				0.0555	
15100 01214	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.031	37.344		1.001				0.0469	
16 1	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.031	39.266		1.000				0.0524	
17.	17 OCDF			NO	0.806	10.031	41.887		1.000				0.104	
18	18 13C-2,3,7,8-TCDD	6.54e5	0.78	NO	1.16	10.031	26.476	26.45	1.026	1.026	172.21	86.4	0.220	
19	19 13C-1,2,3,7,8-PeCDD	4.94e5	0.63	NO	0.849	10.031	31.656	31.43	1.227	1.219	177.12	88.8	0.440	
20	20 13C-1,2,3,4,7,8-HxCDD	3.20e5	1.26	NO	0.779	10.031	34.809	34.80	1.014	1.014	160.22	80.4	0.584	
21	21 13C-1,2,3,6,7,8-HxCDD	4.29e5	1.28	NO	1.02	10.031	34.922	34.90	1.017	1.017	164.88	82.7	0.448	
22	22 13C-1,2,3,7,8,9-HxCDD	3.66e5	1.26	NO	0.903	10.031	35.193	35.19	1.025	1.025	158.35	79.4	0.504	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.53e5	1.05	NO	0.689	10.031	38.715	38.72	1.128	1.128	143.22	71.8	0.670	
24	24 13C-OCDD	4.14e5	0.87	NO	0.652	10.031	41.736	41.69	1.216	1.215	248.15	62.2	0.552	
25	25 13C-2,3,7,8-TCDF	7.97e5	0.77	NO	1.06	10.031	25.519	25.56	0.989	0.991	154.65	77.6	0.351	
26	26 13C-1,2,3,7,8-PeCDF	7.29e5	1.57	NO	0.838	10.031	30.041	30.14	1.165	1.168	178.85	89.7	0.918	
27	27 13C-2,3,4,7,8-PeCDF	7.19e5	1.63	NO	0.817	10.031	30.993	31.11	1.202	1.206	181.06	90.8	0.942	
28	28 13C-1,2,3,4,7,8-HxCDF	4.25e5	0.50	NO	1.01	10.031	33.941	33.92	0.989	0.988	164.70	82.6	0.630	
29	29 13C-1,2,3,6,7,8-HxCDF	5.24e5	0.50	NO	1.17	10.031	34.064	34.05	0.992	0.992	175.22	87.9	0.544	
30	30 13C-2,3,4,6,7,8-HxCDF	4.59e5	0.53	NO	1.02	10.031	34.637	34.63	1.009	1.009	175.31	87.9	0.621	

Quantify Sample Summary Report Vista Analytical Laboratory	MassLynx 4.1 SCN815

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-10.qld

Last Altered:	Monday, June 08, 2020 15:28:21 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:21:31 Pacific Daylight Time

朝日本主要	# 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	3.71e5	0.50	NO	0.860	10.031	35.537	35.55	1.035	1.036	168.52	84.5	0.739	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.05e5	0.42	NO	0.774	10.031	37.284	37.31	1.086	1.087	153.68	77.1	0.572	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.08e5	0.40	NO	0.521	10.031	39.312	39.27	1.145	1.144	156.02	78.3	0.851	
34	34 13C-OCDF	4.86e5	0.93	NO	0.746	10.031	41.907	41.89	1.221	1.220	254.76	63.9	0.599	
34 35	35 37CI-2,3,7,8-TCDD	2.41e5			1.04	10.031	26.507	26.47	1.028	1.026	70.748	88.7	0.0856	
36	36 13C-1,2,3,4-TCDD	6.55e5	0.78	NO	1.00	10.031	25.890	25.80	1.000	1.000	199.39	100	0.255	
37	37 13C-1,2,3,4-TCDF	9.70e5	0.78	NO	1.00	10.031	24.360	24.10	1.000	1.000	199.39	100	0.372	
38	38 13C-1,2,3,4,6,9-HxCDF	5.11e5	0.51	NO	1.00	10.031	34.420	34.33	1.000	1.000	199.39	100	0.635	
39	39 Total Tetra-Dioxins				0.888	10.031	24.620		0.000		0.00000		0.0453	0.155
40	40 Total Penta-Dioxins				0.908	10.031	29.960		0.000		0.11859		0.0497	0.119
41	41 Total Hexa-Dioxins				0.892	10.031	33.635		0.000		0.56703		0.101	0.792
42	42 Total Hepta-Dioxins				0.864	10.031	37.640		0.000		1.5922		0.155	1.5 9
43 44	43 Total Tetra-Furans				0.751	10.031	23.610		0.000		0.00000		0.0202	0.121
44	44 1st Func. Penta-Furans				0.893	10.031	27.580		0.000				0.0133	
45	45 Total Penta-Furans				0.893	10.031	29.275		0.000				0.0129	
46	46 Total Hexa-Furans				0.934	10.031	33.555		0.000				0.0238	
47	47 Total Hepta-Furans				0.873	10.031	37.835		0.000				0.0226	

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-10.qld

Last Altered:	Monday, June 08, 2020 15:28:21 Pacific Daylight Time
Printed:	Monday, June 08, 2020 16:21:31 Pacific Daylight Time

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

Name: 200607R1_10, Date: 07-Jun-2020, Time: 15:39:00, ID: 2001005-07 PDI-164SC-A-06-07-200426 11.24, Description: PDI-164SC-A-06-07-200426

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Total Tetra-Dioxins	24.27	4.529e3	3.414e3	2.694e2	2.556e2	1.05	YES	0.000e0	0.00000	0.15500	0.0847

Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp.	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Dioxins	29.71	2.017e3	2.925e3	9.685e1	1.699e2	0.57	NO	2.667e2	0.11859	0.11900	0.0497

Hexa-Dioxins

15 gr 10 5 1	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp.	RA	n/y	Resp	Conc	EMPC	DL
	Total Hexa-Dioxins	33.30	1.064e4	1.005e4	5.262e2	4.168e2	1.26	NO	9.431e2	0.56703	0.56700	0.101
2	Total Hexa-Dioxins	34.15	3.506e3	2.561e3	2.381e2	1.670e2	1.43	YES	0.000e0	0.00000	0.22500	0.101

Hepta-Dioxins

Name	RT	mi Helght	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.74	7.762e3	7.572e3	6.250e2	6.067e2	1.03	NO	1.232e3	1.1246	1.1250	0.155
2 1,2,3,4,6,7,8-HpCDD	38.74	4.287e3	4.991e3	2.577e2	2.544e2	1.01	NO	5.121e2	0.46758	0.46800	0.155

Tetra-Furans

Name and a first	RT 3	m1 Height	m2 Height	m1 Resp	m2 Resp	RA n/y -	Resp	Gonc	EMPC	DL
1 Total Tetra-Furans	24.73	5.841e3	2.722e3	4.291e2	2.057e2	2.09 YES	0.000e0	0.00000	0.12100	0.0202

Penta-Furans function 1

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

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-10.qld

Last Altered: Monday, June 08, 2020 15:28:21 Pacific Daylight Time Printed: Monday, June 08, 2020 16:21:31 Pacific Daylight Time

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Penta-Furans

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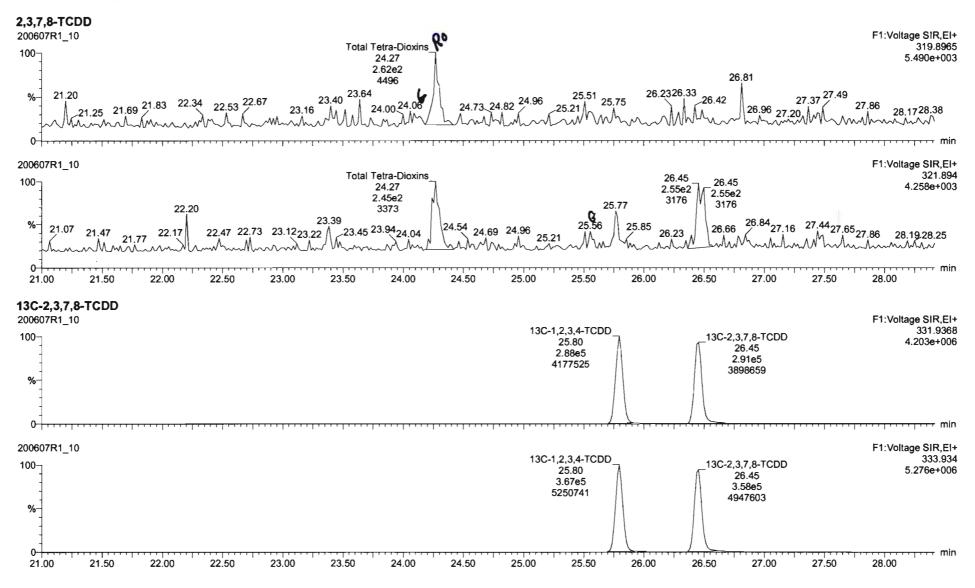
Hexa-Furans

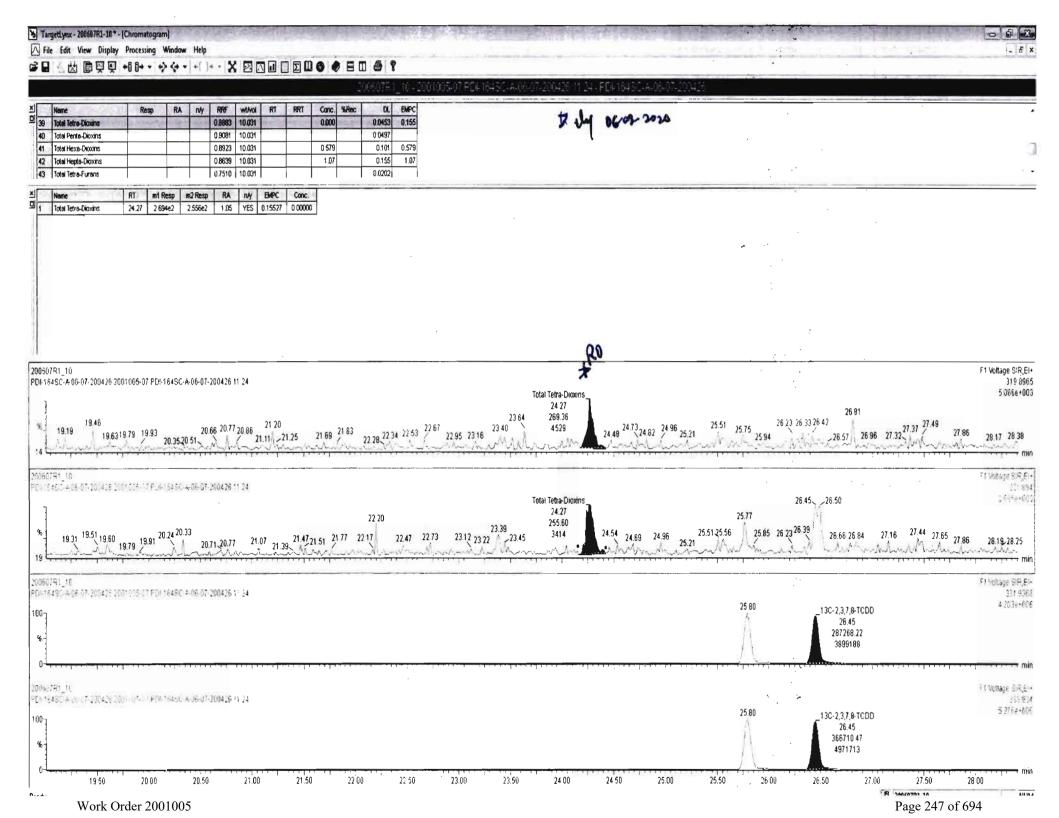
Name RT m1 Height m2 Height m1 Resp m2 Resp RA n/y Resp Conc. EMPC DL

Hepta-Furans

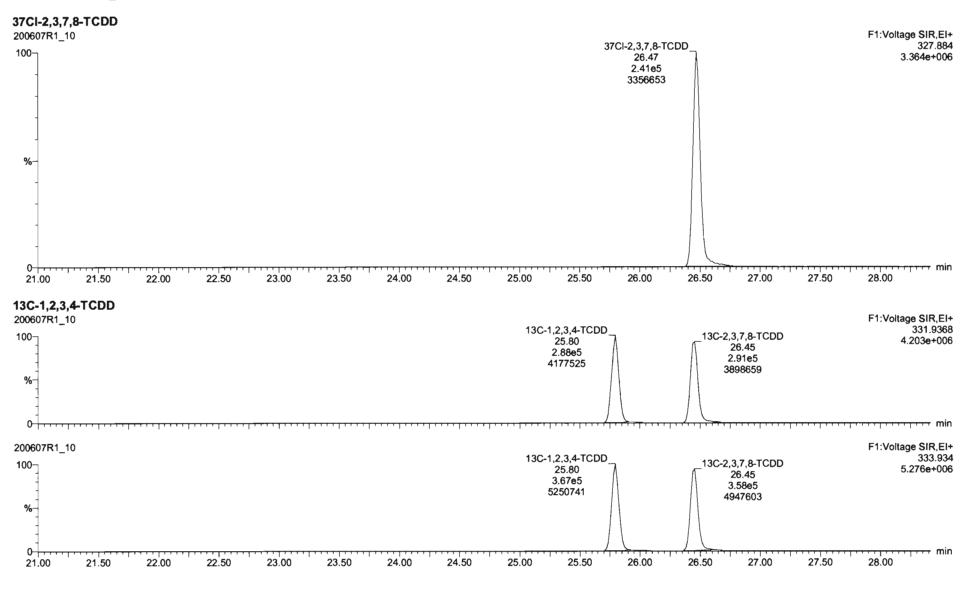
Name RT m1 Height m2 Height m1 Resp m2 Resp RA n/y Resp Conc, EMPC DL

Quantify San Vista Analytica		MassLynx 4.1 SCN815	Page 92 of 182
Dataset:	Untitled		
Last Altered: Printed:		08, 2020 07:40:53 Pacific Daylight Time 08, 2020 07:43:34 Pacific Daylight Time	

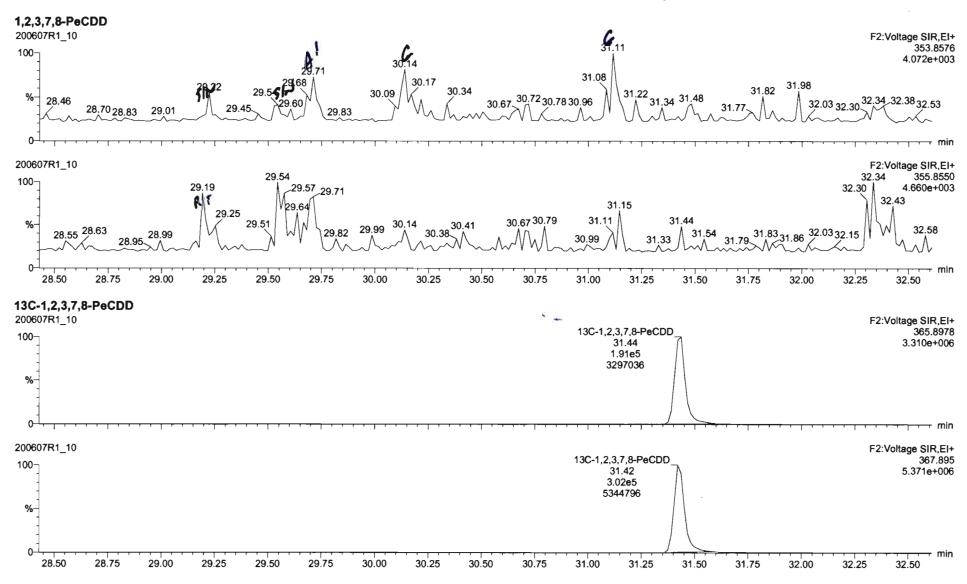


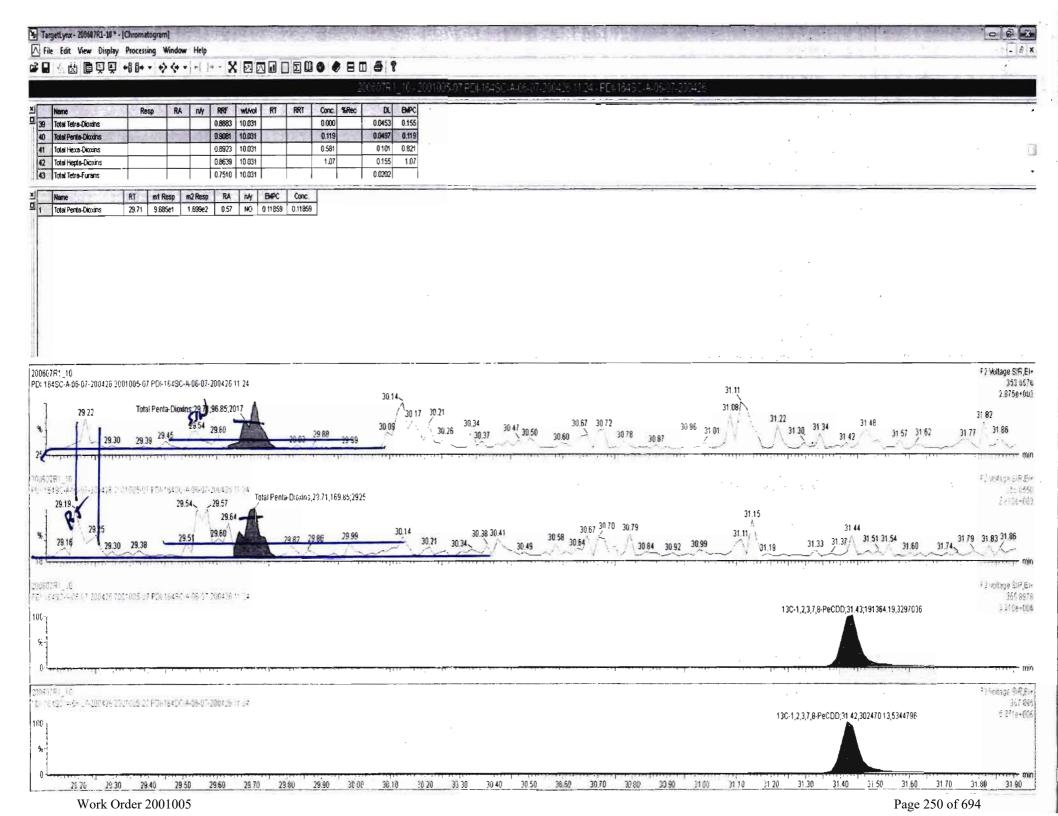


Quantify Sam Vista Analytica		Page 93 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

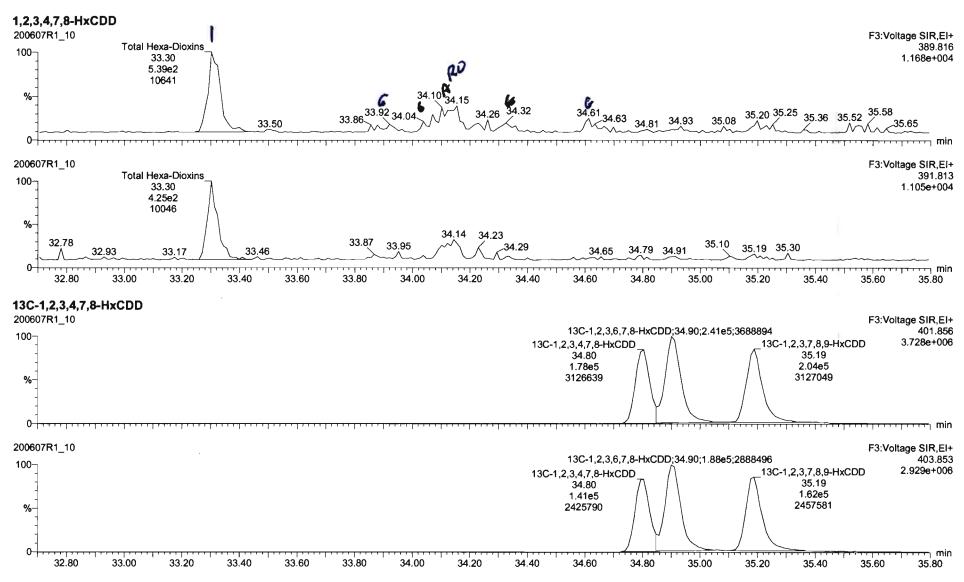


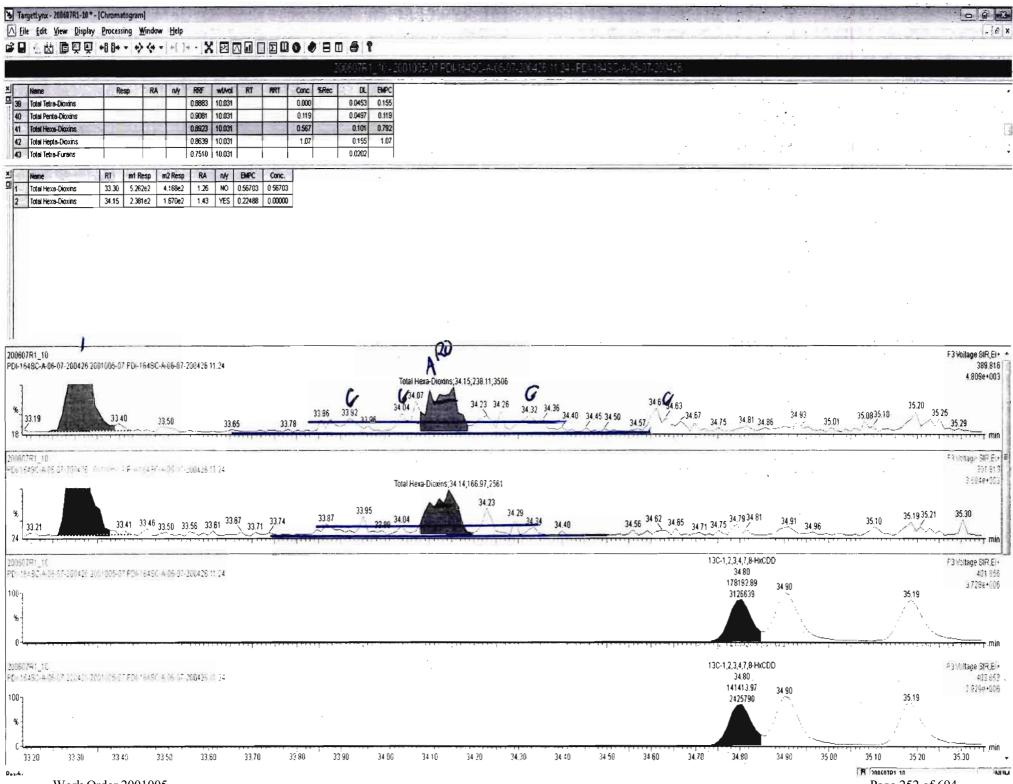
Quantify Sam Vista Analytica		Page 94 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	





Quantify San Vista Analytica		Page 95 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



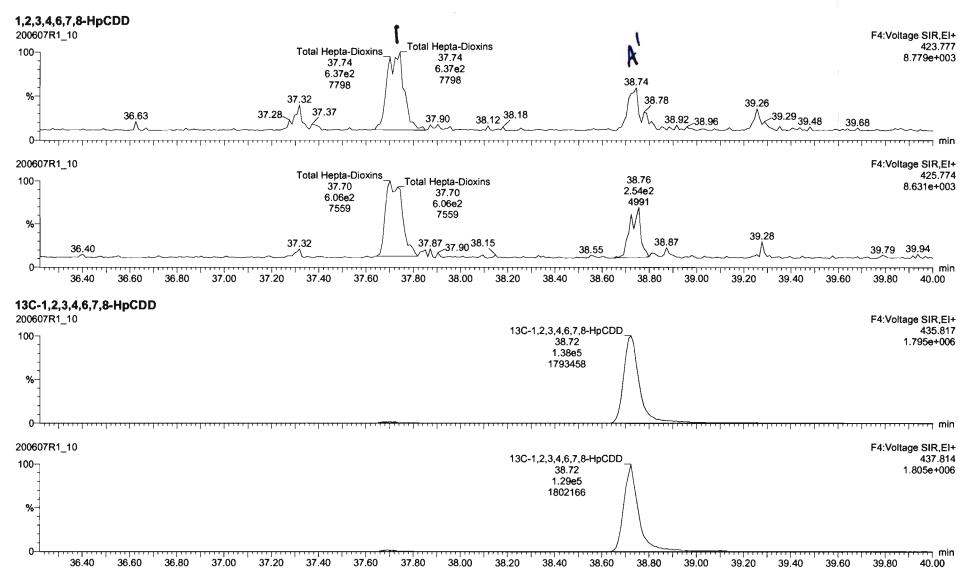


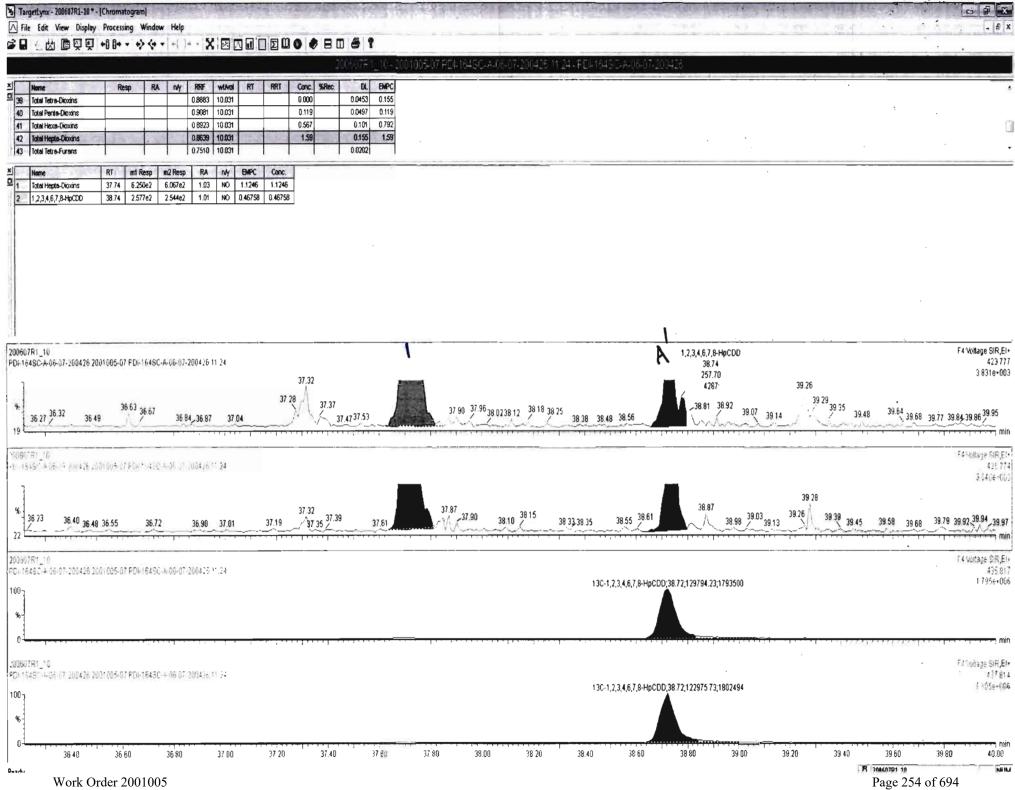
Work Order 2001005

Page 252 of 694

Quantify Sam Vista Analytica		MassLynx 4.1 SCN815	Page 96 of 182
Dataset:	Untitled		
Last Altered: Printed:		08, 2020 07:40:53 Pacific Daylight Time 08, 2020 07:43:34 Pacific Daylight Time	

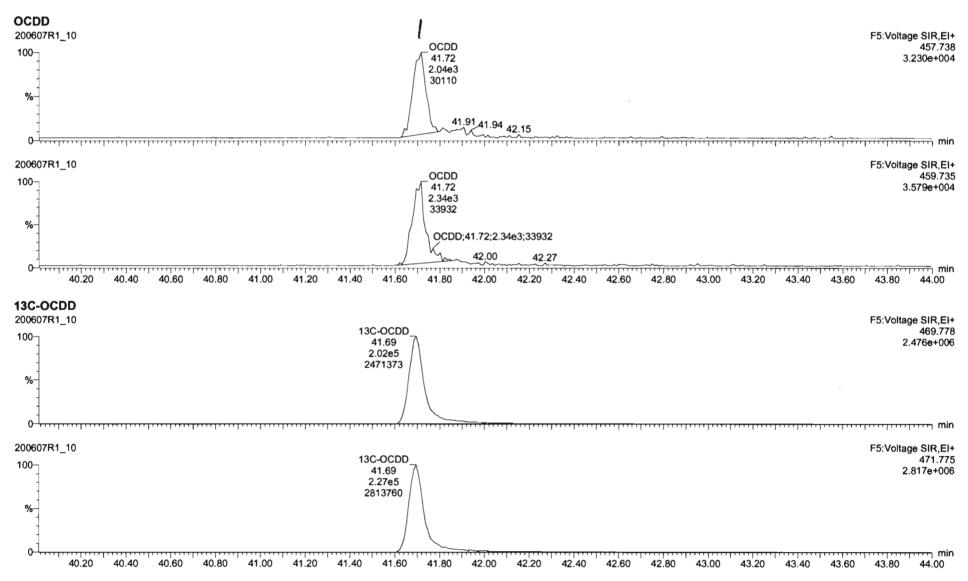
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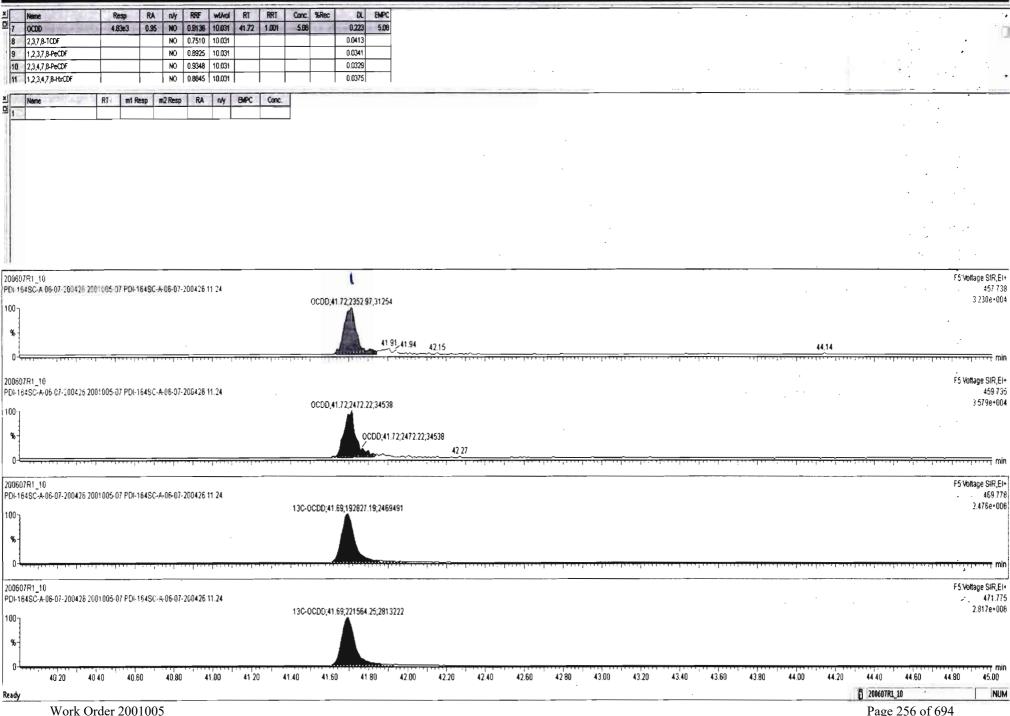
Quantify Sam Vista Analytica		Page 97 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

Name: 200607R1_10, Date: 07-Jun-2020, Time: 15:39:00, ID: 2001005-07 PDI-164SC-A-06-07-200426 11.24, Description: PDI-164SC-A-06-07-200426



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Page 256 of 694

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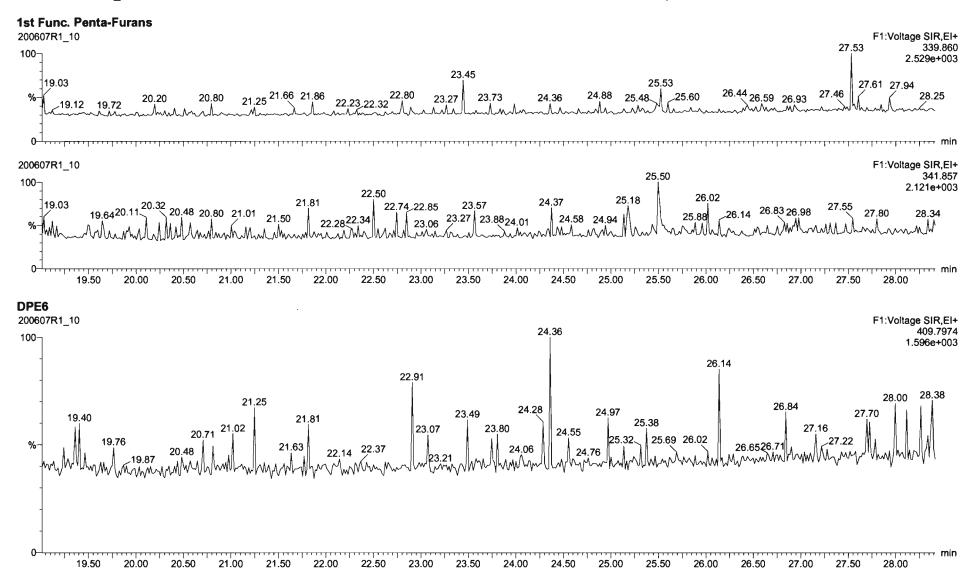
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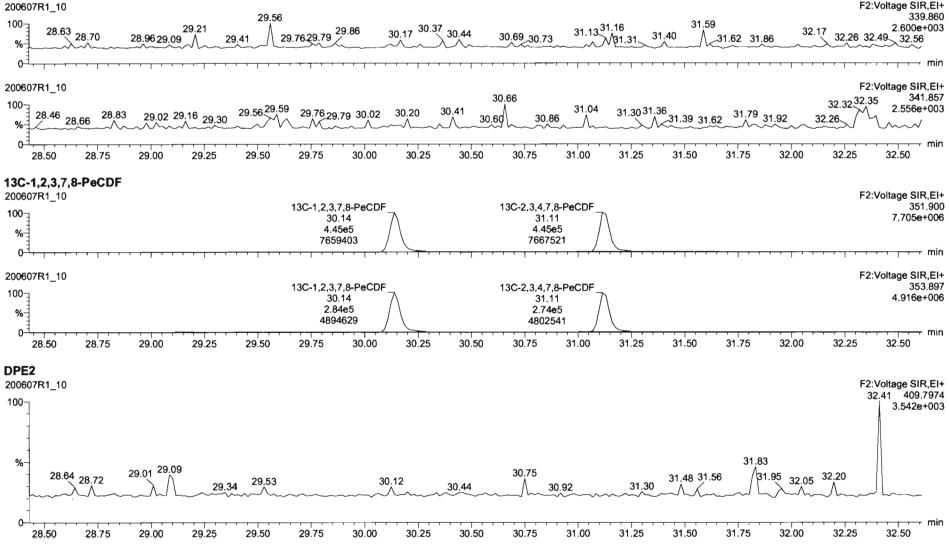
	n ple Report al Laboratory	MassLynx 4.1 SCN	1815				Page 98 of 1
ataset:	Untitled						
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ame: 200607	7R1_10, Date: 0	7-Jun-2020, Time: 15:	:39:00, ID: 2001005	07 PDI-164SC-A-06-()7-200426 11.24, De	scription: PDI-164S	C-A-06-07-200426
,3,7,8-TCDF					(P)		
00607R1_10					24.73 24.73		F1:Voltage SIR,E 303.90
% 19.21	19.96	20.87.20.95 21.44	22.01 22.43.22.50	23.45 23.68 23.79	4.74e2 5852 5852 4.74e2 5852	25.60 25.78 26.39 26.44	6.844e+0 26.63 26.99 27.50 27.71
0							ע היידריירדיירדיירדיירדיירדיירדייריים איז
00607R1_10					24.76		F1:Voltage SIR, 305.8 27.38 3.657+1
%19 <u>.</u> 4	49 19.96 20.30	21.45 21.63	21.80 22.35 22.53 2	22.89 23.67 23.74 23.92	24.67	⁶ 25.7725.83 25.94 26.45	27.38 3.657e+(26.53 27.29 27.59 27.94 28.28
0 from	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		hundrahan		man hand	Mar	······
19.5	50 20.00 20	.50 21.00 21.50	22.00 22.50 2	3.00 23.50 24.00	24.50 25.00	25.50 26.00 26.5	
3C-2,3,7,8-T	CDF						
00607R1_10				13C-1,2,3,4-TCDF_			F1:Voltage SIR, 315.94
00				24.10	13C-2,3,7,8-TC 25.56		5.013e+
%				4.24e5 4984963	3.46e5 4690415	\bigwedge	
0 ⁻¹					, , , , , , , , , , , , , , , , , , , 	···⁄ (···)·/····/····/····/·	****
00607R1_10				13C-1,2,3,4-TCDF_			F1:Voltage SIR, 317.
00				24.10	13C-2,3,7,8-TC 25.56		6.584e+
%				5.46e5 6544015	4.50e5 6008394	\bigwedge	
0 ^{_1} ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	50 20.00 20	.50 21.00 21.50	22.00 22.50 2	3.00 23.50 24.00	24.50 25.00	25.50 26.00 26.5	0 27.00 27.50 28.00
PE1 00607R1_10							F1:Voltage SIR,
				23.80			27.58 27.79 375.8 27.58 27.79 2.266e+
00¬							27.36 2.2000-
-00							
100				il i			
19.28	20.08	21 0221 16 ^{21,57}	^{21.87} 22.17 22.79	23.88	24.87 25.09	26.00 26	.59 27,01 27,44 28,06 28 37
19.28	19.64 20.08	21.0221.16 ^{21.57²}	21.87 22.17 22.79		24.57 24.87 25.09 24.57 25.09		.59 27.01 27.44 28.06 28.37
- 	19.64 1 20	21.0221.16 ^{21.57}	21.87 22.17 22.79 122.40		24.57 \		59 27.01 27.44 28.06 28.37 27.35
- 	19.64 1 20	21.0221.16 ^{21.57}	21.87 22.17 22.79 122.40		24.57 25.		Lander Miller Contraction

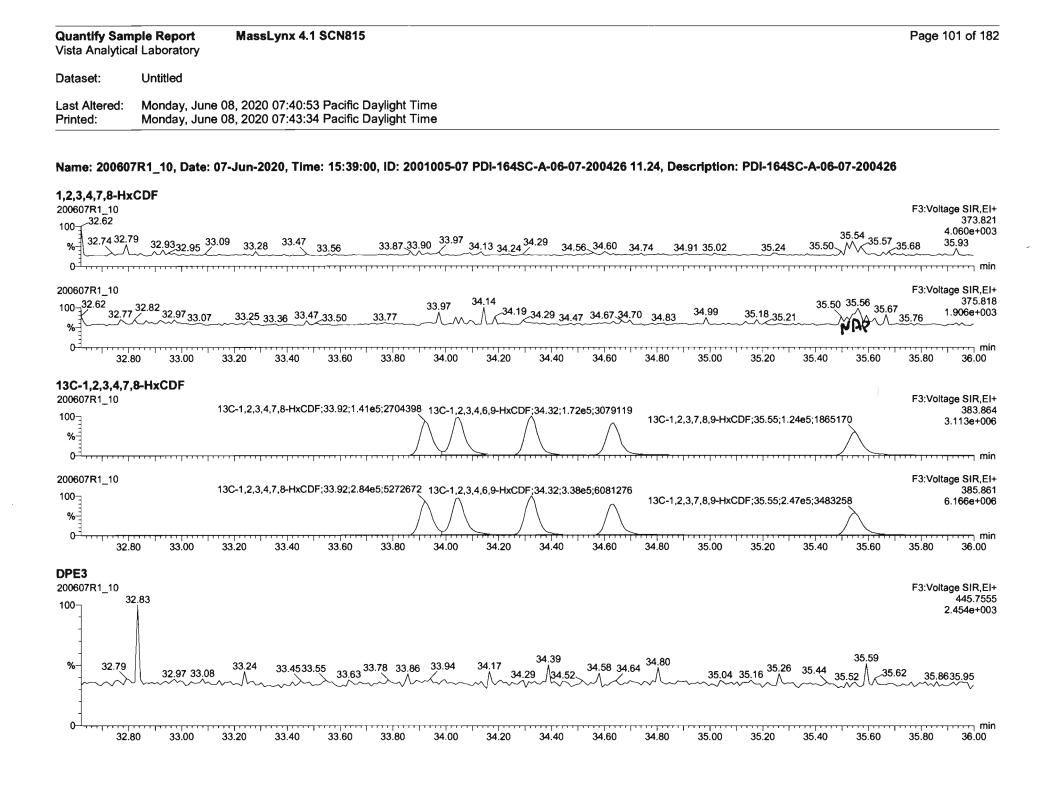
Quantify Sam Vista Analytica		Page 99 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

Name: 200607R1_10, Date: 07-Jun-2020, Time: 15:39:00, ID: 2001005-07 PDI-164SC-A-06-07-200426 11.24, Description: PDI-164SC-A-06-07-200426



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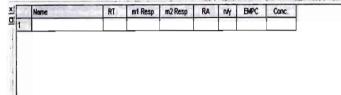
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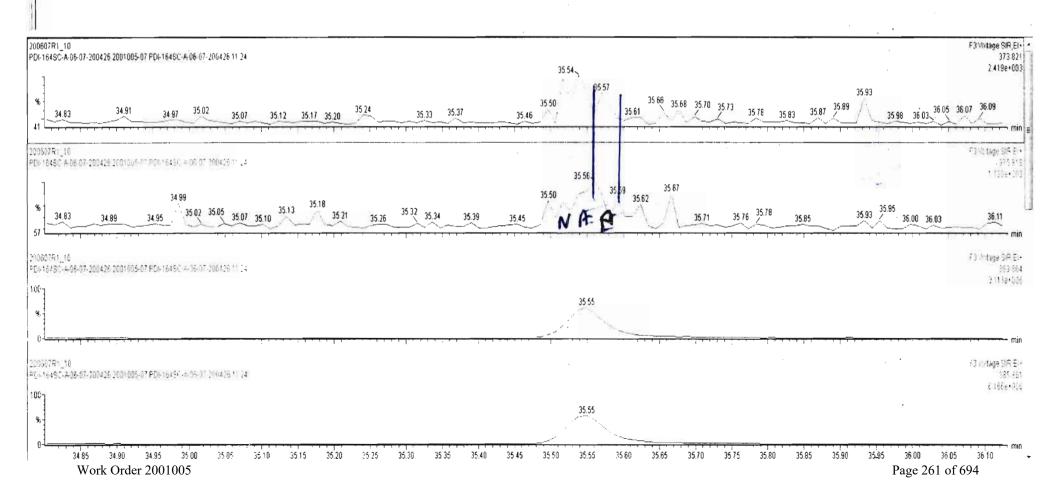
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RECED 2001005/07 PDI/06450 4-06/07/200416 11/24 - PDI/06450 4-06/07/200416

	Name	Resp	RA	nty	RRF	WIMO	RT	RRT	Conc.	%Rec	DL	EN
43	Total Tetra-Furans				0.7510	10.031			0.000		0.0202	0.121
44	1st Func. Penta-Furans				0.6925	10.031					0.0133	
45	Total Penta-Furans				0.8925	10.031					0.0129	
46	Total Hexa-Furans			1.	0.9341	10.031	1.57	020			0.0238	183
47	Total Hepta-Furans				0.8734	10.031					0.0226	

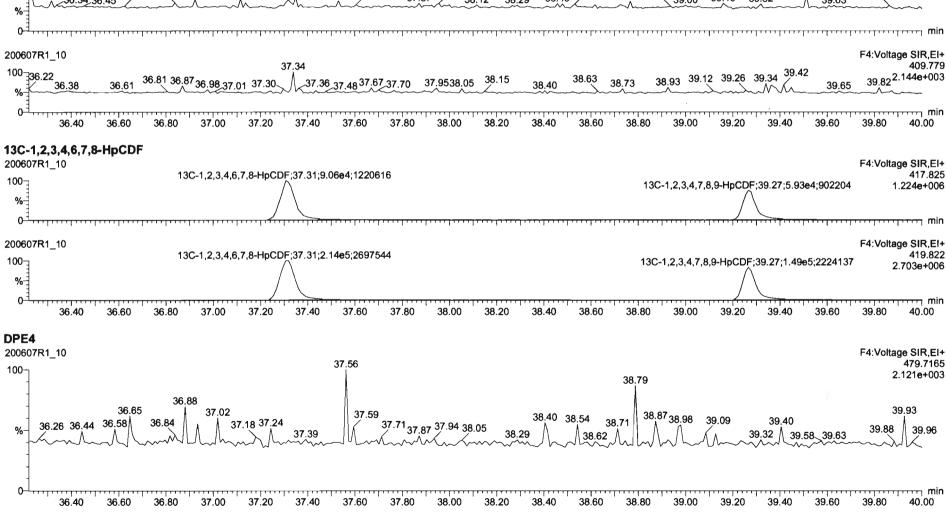


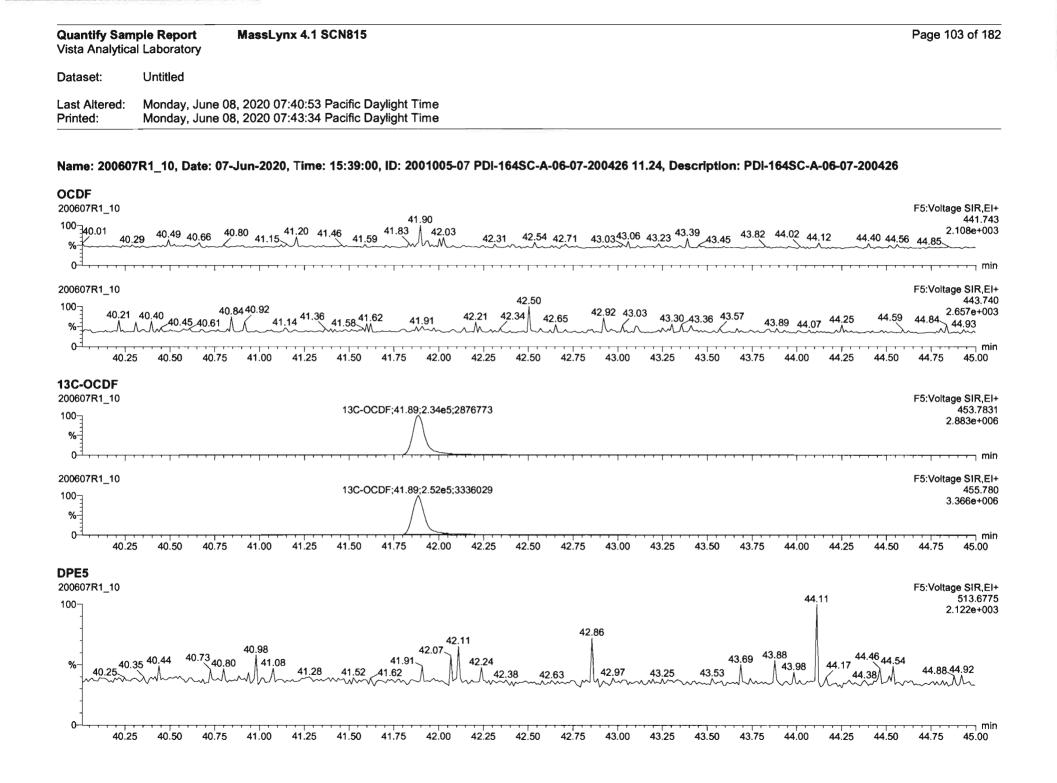


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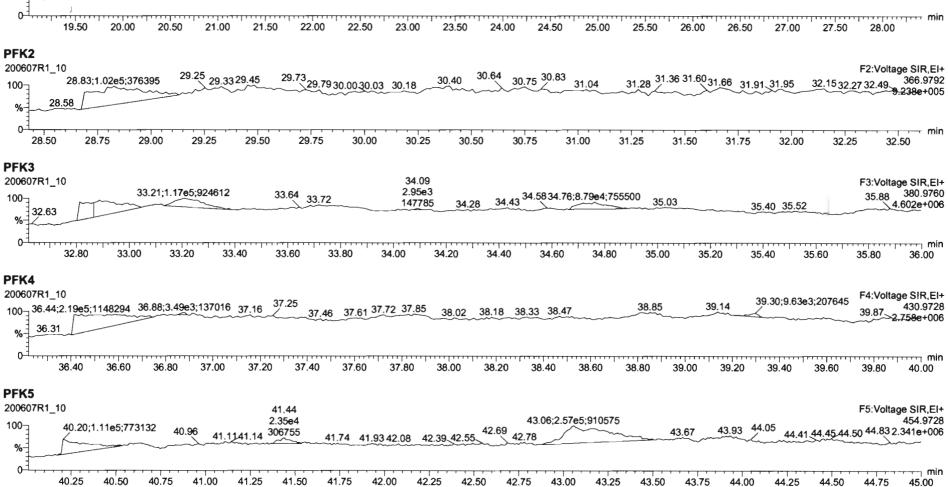
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	Page 102 of 182		
Dataset: Untitled			
Last Altered: Monday, June 08, 2020 07:40:53 Pacific Daylight Time Printed: Monday, June 08, 2020 07:43:34 Pacific Daylight Time			





Quantify San Vista Analytica	ple Report MassLynx 4.1 SCN815	Page 104 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	
Name: 20060	'R1_10, Date: 07-Jun-2020, Time: 15:39:00, ID: 2001005-07 PDI-164SC-A-06-07-200426 11.24, Description: PDI-164SC-A-06-07-20042	6
Name: 20060 PFK1 200607R1 10	'R1_10, Date: 07-Jun-2020, Time: 15:39:00, ID: 2001005-07 PDI-164SC-A-06-07-200426 11.24, Description: PDI-164SC-A-06-07-20042	6 F1:Voltage SIR,EI+



Quantify San Vista Analytica	nple Summary Report al Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\20	0607R1\200607R1-11.qld	
Last Altered: Printed:		6:02:35 Pacific Daylight Time 6:13:46 Pacific Daylight Time	

14 06-08-2020 (406/09/2020)

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	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1 小学校 的复数	1 2,3,7,8-TCDD			NO	0.888	10.072	26.486		1.001				0.0581	
2	2 1,2,3,7,8-PeCDD			NO	0.908	10.072	31.442		1.001				0.0594	
3 Contraction and	3 1,2,3,4,7,8-HxCDD			NO	1.03	10.072	34.803		1.000				0.0573	
4.1997年,京和	4 1,2,3,6,7,8-HxCDD			NO	0.892	10.072	34.900		1.000				0.0575	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	10.072	35.199		1.000				0.0686	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	10.072	38.735		1.000				0.0805	
5 6 7 8 9	7 OCDD	8.71e2	0.96	NO	0.914	10.072	41.706	41.73	1.000	1.001	0.73282		0.138	0.733
8	8 2,3,7,8-TCDF			NO	0.751	10.072	25.582		1.001				0.0351	
	9 1,2,3,7,8-PeCDF			NO	0.893	10.072	30.160		1.001				0.0322	
10	10 2,3,4,7,8-PeCDF			NO	0.935	10.072	31.161		1.001				0.0326	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	10.072	33.920		1.000				0.0280	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	10.072	34.058		1.000				0.0251	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	10.072	34.669		1.001		~		0.0280	
14	14 1,2,3,7,8,9-HxCDF	9.92e1	1.44	YES	0.871	10.072	35.550	35.56	1.000	1.000	0.049646		0.9441	0.0455
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	10.072	37.344		1.001				0.0363	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.072	39.277		1.000				0.0400	
March and	17 OCDF			NO	0.806	10.072	41.897		1.000				0.0720	
18	18 13C-2,3,7,8-TCDD	8.30e5	0.79	NO	1.16	10.072	26.476	26.45	1.026	1.026	184.98	93.2	0.204	
19 (5) Sub- 10	19 13C-1,2,3,7,8-PeCDD	6.26e5	0.63	NO	0.849	10.072	31.656	31.42	1.227	1.218	189.93	95.7	0.251	
20 21	20 13C-1,2,3,4,7,8-HxCDD	4.01e5	1.27	NO	0.779	10.072	34.809	34.79	1.014	1.014	165.92	83.6	0.571	
2.0.2546.00	21 13C-1,2,3,6,7,8-HxCDD	5.30e5	1.24	NO	1.02	10.072	34.922	34.90	1.017	1.017	167.85	84.5	0.437	
22	22 13C-1,2,3,7,8,9-HxCDD	4.54e5	1.23	NO	0.903	10.072	35.193	35.19	1.025	1.025	161.76	81.5	0.493	
23 24	23 13C-1,2,3,4,6,7,8-HpCDD	3.16e5	1.04	NO	0.689	10.072	38.715	38.72	1.128	1.128	147.79	74.4	0.553	
24	24 13C-OCDD	5.16e5	0.90	NO	0.652	10.072	41.736	41.71	1.216	1.215	254.92	64.2	0.513	
25	25 13C-2,3,7,8-TCDF	1.09e6	0.77	NO	1.06	10.072	25.519	25.56	0.989	0.991	180.71	91.0	0.316	
28	26 13C-1,2,3,7,8-PeCDF	9.20e5	1.58	NO	0.838	10.072	30.041	30.14	1.165	1.168	192.43	96.9	0.561	
27	27 13C-2,3,4,7,8-PeCDF	9.01e5	1.58	NO	0.817	10.072	30.993	31.13	1.202	1.207	193.40	97.4	0.576	
28	28 13C-1,2,3,4,7,8-HxCDF	5.36e5	0.50	NO	1.01	10.072	33.941	33.92	0.989	0.988	171.15	86.2	0.850	
28 10 10 1	29 13C-1,2,3,6,7,8-HxCDF	6.53e5	0.51	NO	1.17	10.072	34.064	34.05	0.992	0.992	180.01	90.7	0.734	
30	30 13C-2,3,4,6,7,8-HxCDF	5.57 e 5	0.50	NO	1.02	10.072	34.637	34.63	1.009	1.009	175.45	88.4	0.838	

Quantify Sam Vista Analytica	ple Summary Report Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\20	0607R1\200607R1-11.qld	

Last Altered: Monday, June 08, 2020 16:02:35 Pacific Daylight Time Printed: Monday, June 08, 2020 16:13:46 Pacific Daylight Time

A THE A DE LA DE L	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	4.55e5	0.52	NO	0.860	10.072	35.537	35.55	1.035	1.036	170.60	85.9	0.996	
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.86e5	0.42	NO	0.774	10.072	37.284	37.31	1.086	1.087	160.39	80.8	0.726	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.68e5	0.42	NO	0.521	10.072	39.312	39.28	1.145	1.144	165.70	83.4	1.08	
34	34 13C-OCDF	6.63e5	0.87	NO	0.746	10.072	41.907	41.90	1.221	1.221	286.46	72.1	0.629	
35	35 37CI-2,3,7,8-TCDD	3.15e5			1.04	10.072	26.507	26.47	1.028	1.026	78.287	98.6	0.0522	
36	36 13C-1,2,3,4-TCDD	7.70e5	0.79	NO	1.00	10.072	25.890	25.80	1.000	1.000	198.57	100	0.236	
37	37 13C-1,2,3,4-TCDF	1.13e6	0.78	NO	1.00	10.072	24.360	24.10	1.000	1.000	198.57	100	0.334	
38	38 13C-1,2,3,4,6,9-HxCDF	6.17e5	0.50	NO	1.00	10.072	34.420	34.33	1.000	1.000	198.57	100	0.856	
39	39 Total Tetra-Dioxins				0.888	10.072	24.620		0.000		0.00000		0.0367	0.0894
40	40 Total Penta-Dioxins				0.908	10.072	29.960		0.000				0.0263	
41	41 Total Hexa-Dioxins				0.892	10.072	33.635		0.000		0.00000		0.0367	0.113
42	42 Total Hepta-Dioxins				0.864	10.072	37.640		0.000				0.0441	
43	43 Total Tetra-Furans				0.751	10.072	23.610		0.000				0.0163	
44 45 F	44 1st Func. Penta-Furans				0.893	10.072	27.580		0.000				0.00692	
	45 Total Penta-Furans				0.893	10.072	29.275		0.000				0.0146	
46	46 Total Hexa-Furans				0.934	10.072	33.555		0.000		0.00000		0.0181	0.0455
47	47 Total Hepta-Furans				0.873	10.072	37.835		0.000				0.0203	

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-11.qld

Last Altered:	Monday, June 08, 2020 16:02:35 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: 200607R1_11, Date: 07-Jun-2020, Time: 16:25:14, ID: 2001005-08 PDI-164SC-A-07-08-200426 13.9, Description: PDI-164SC-A-07-08-200426

Tetra-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y _:	Resp	- Conc.	EMPC	DL
1 Total Tetra-Dioxins	24.30	2.033e3	2.304e3	1.443e2	2.262e2	0.64	YES	0.000e0	0.00000	0.089362	0.0581

Penta-Dioxins



Hexa-Dioxins

1957 小学	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y.	Resp	Gono.	EMPC	DI
10.3日日日	Total Hexa-Dioxins	33.31	4.068e3	2.043e3	1.706e2	1.049e2	1.63	YES	0.000e0	0.00000	0.11327	0.0367

Hepta-Dioxins

Name. RT m1 Height m2 Height m1 Resp. m2 Resp. RA my Resp. Conc. EMPC D

Tetra-Furans

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

Penta-Furans function 1

Name RT m1 Height m2 Height m1 Resp m2 Resp RA n/y Resp Conc. LEMPC D

Quantify Totals Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-11.qld

Last Altered: Monday, June 08, 2020 16:02:35 Pacific Daylight Time Printed: Monday, June 08, 2020 16:13:46 Pacific Daylight Time

Name: 200607R1_11, Date: 07-Jun-2020, Time: 16:25:14, ID: 2001005-08 PDI-164SC-A-07-08-200426 13.9, Description: PDI-164SC-A-07-08-200426

Penta-Furans

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

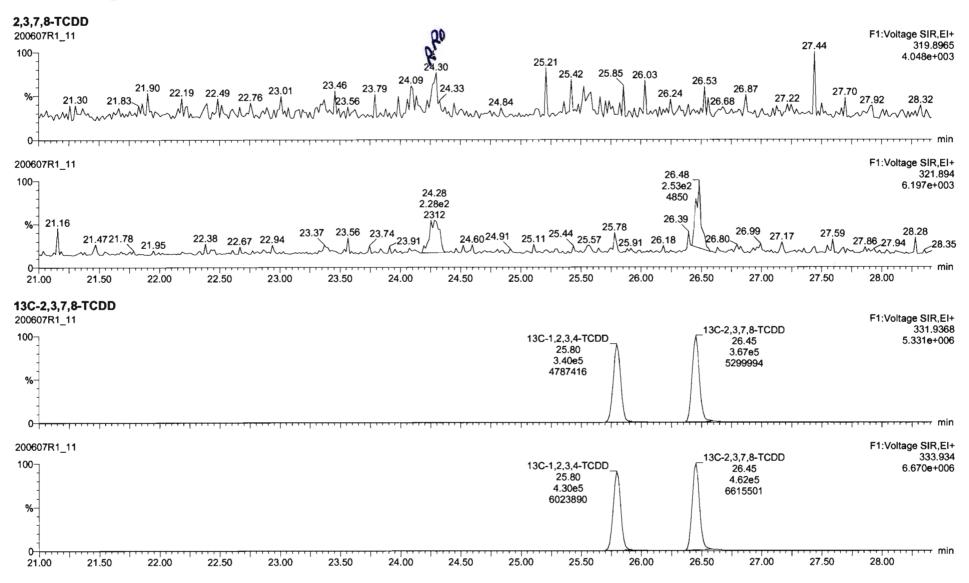
Hexa-Furans

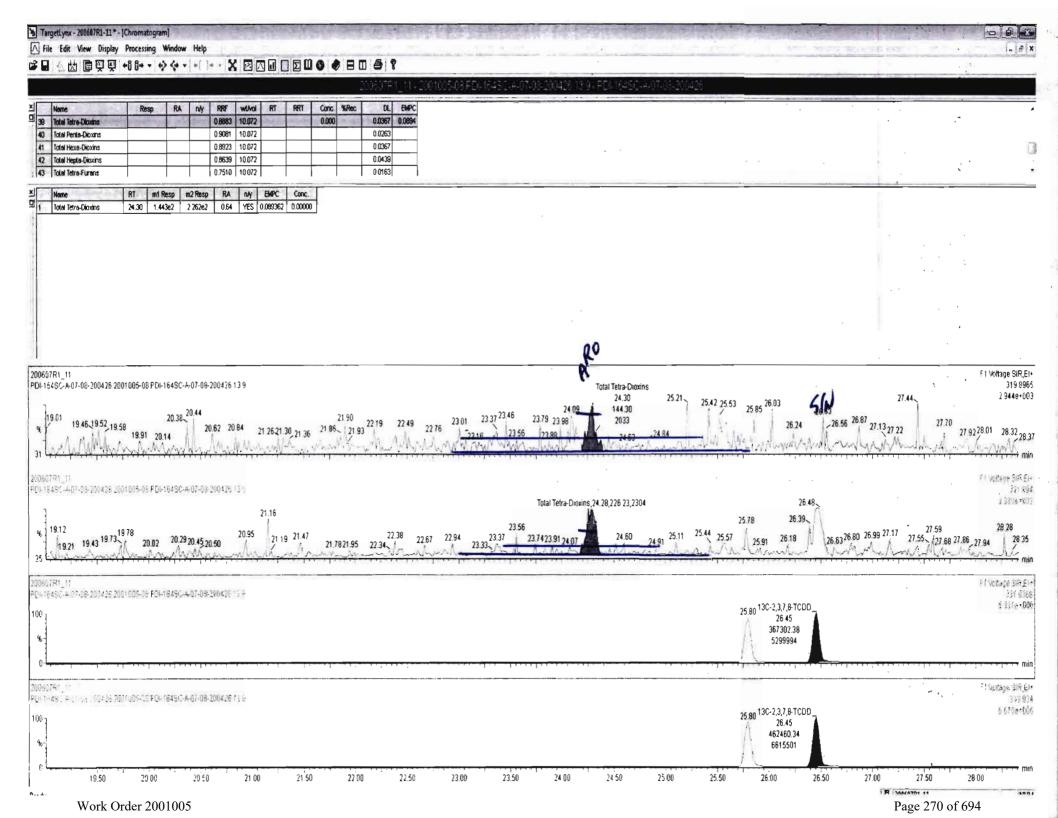
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 1,2,3,7,8,9-HxCDF	35.56	2.234e3	8.050e2	5.859e1	4.057e1	1.44	YES	9.916e1	0.00000	0.045496	0.0441

Hepta-Furans

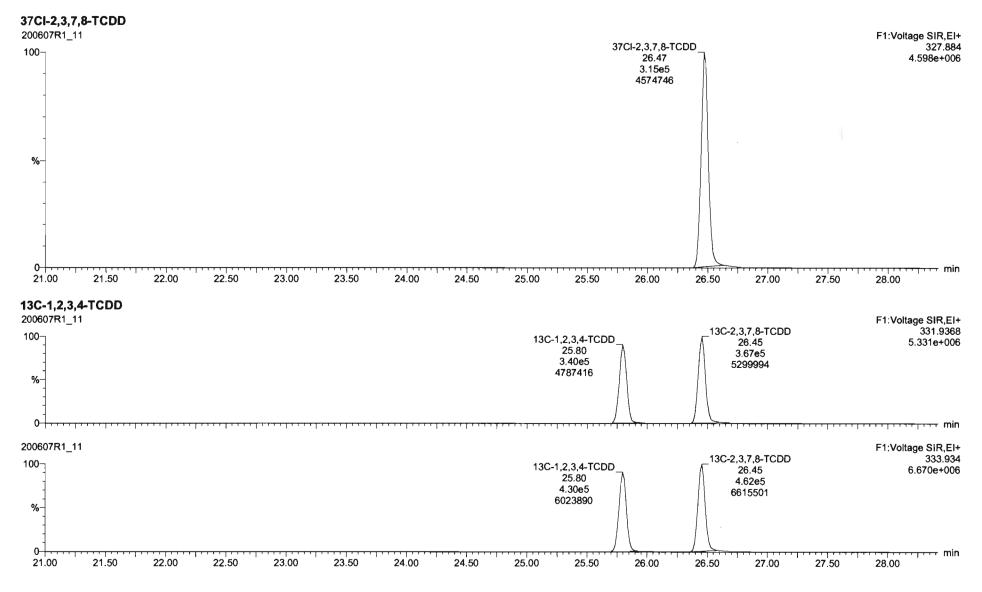
Name	RT m1 Height m2 Height	m1 Resp m2 Resp RA n/y	Resp - Conc. EMPC DL
Name			

Quantify San Vista Analytica		Page 105 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

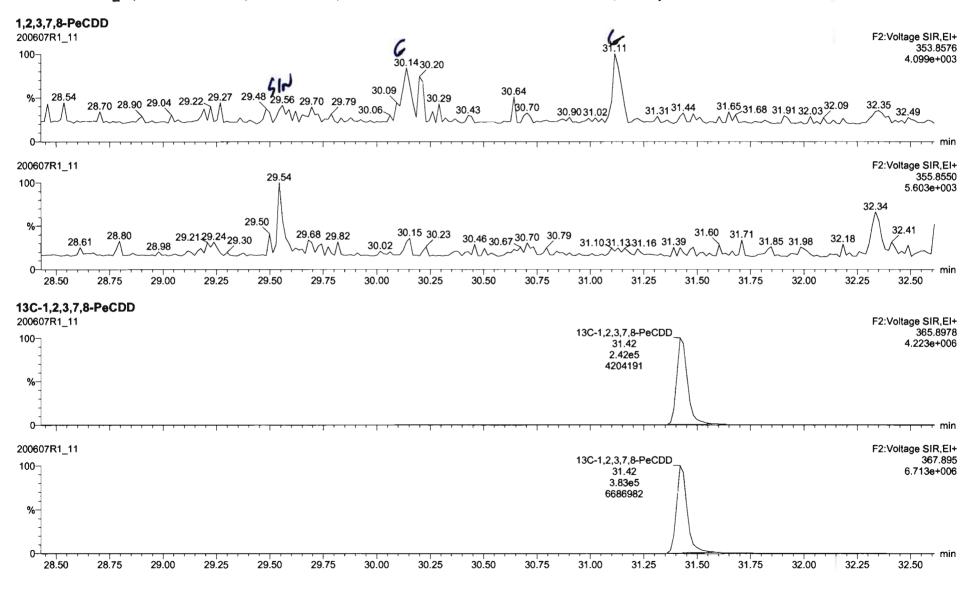


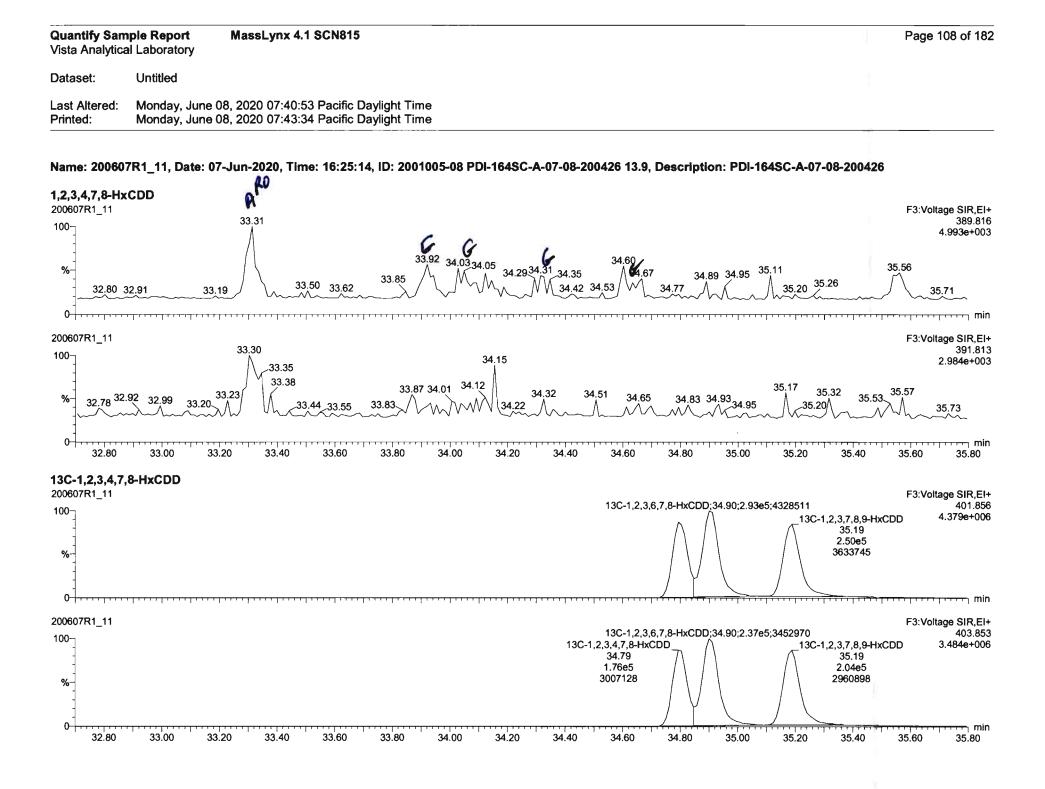


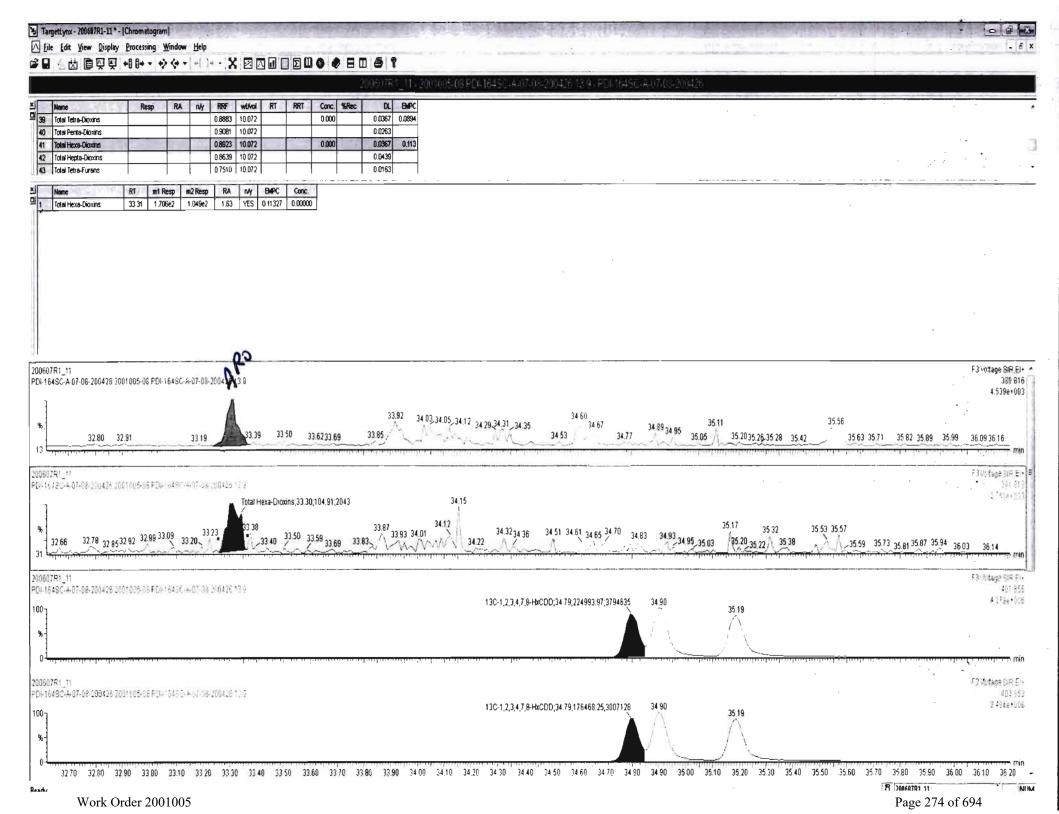
Quantify Sam Vista Analytica		Page 106 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



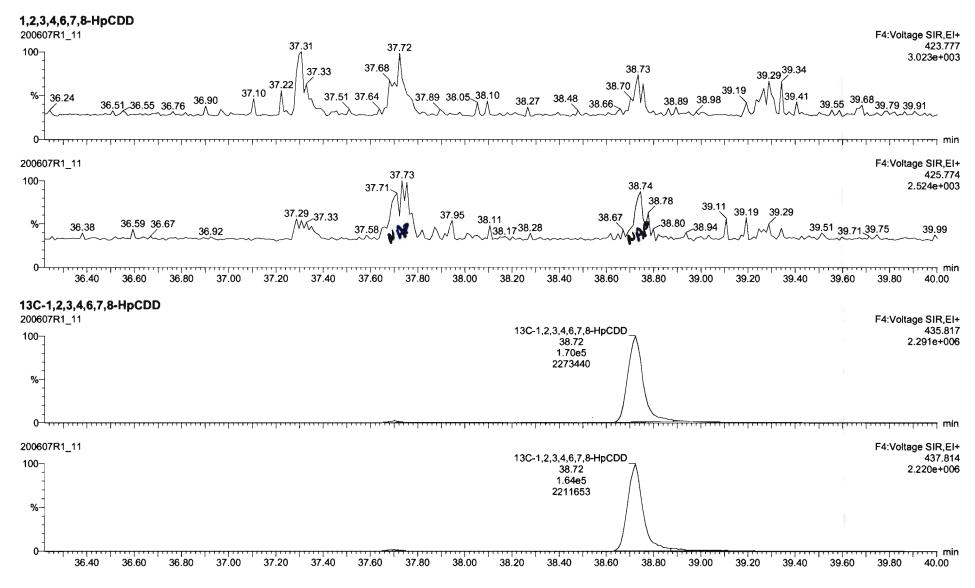
Quantify Sam Vista Analytica		Page 107 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

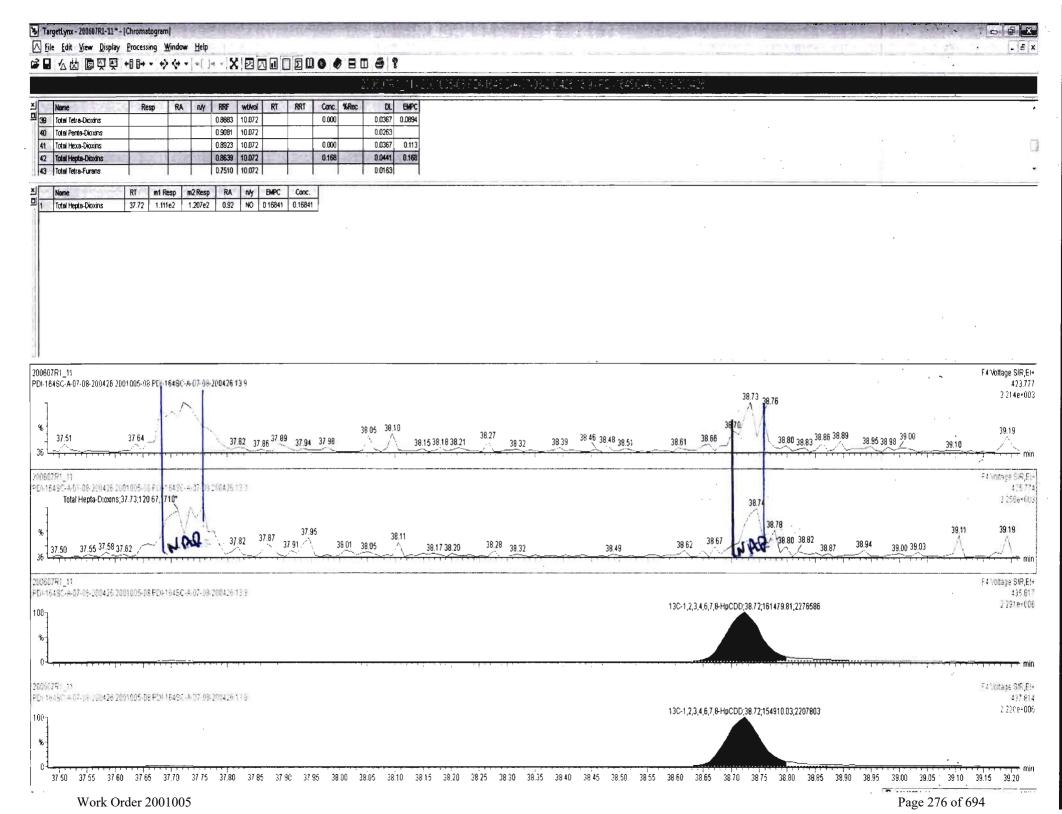




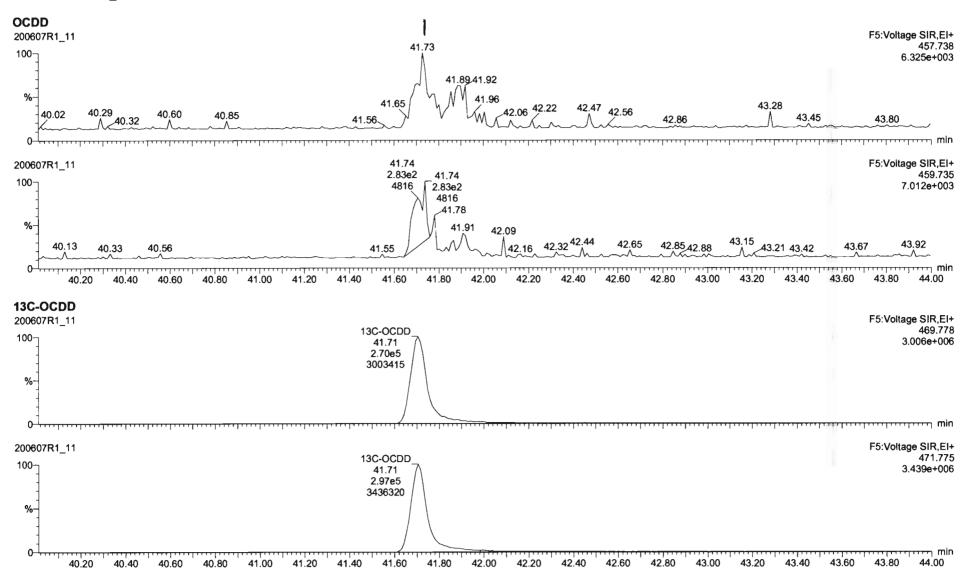


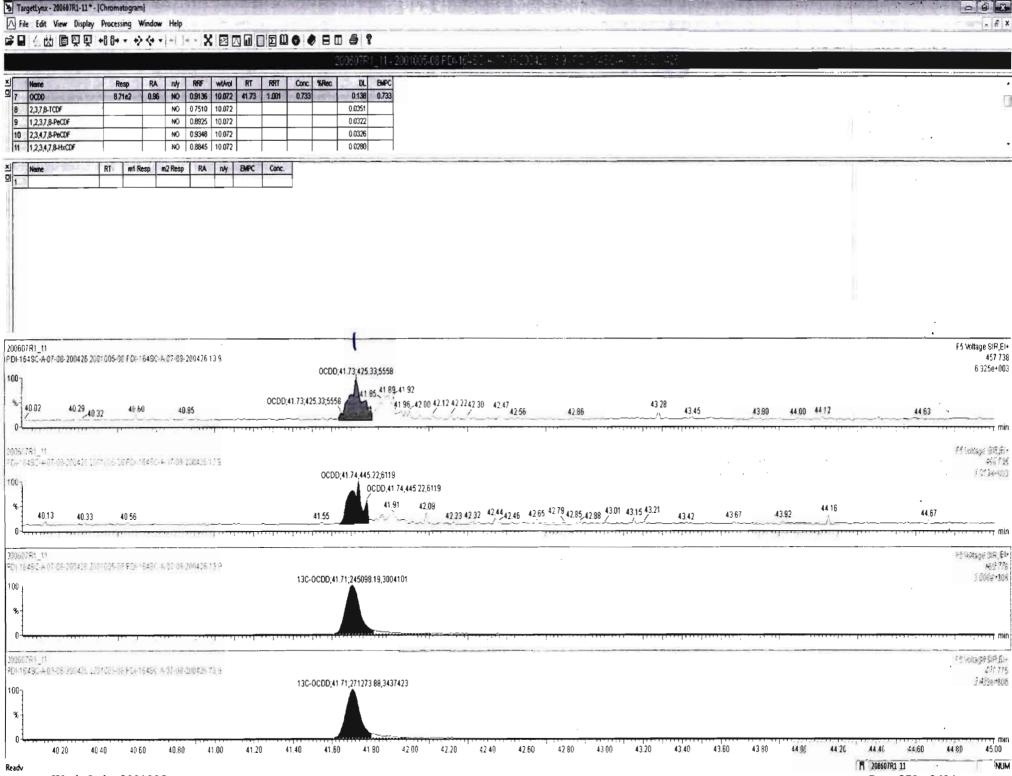
Quantify Sam Vista Analytica		Page 109 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	





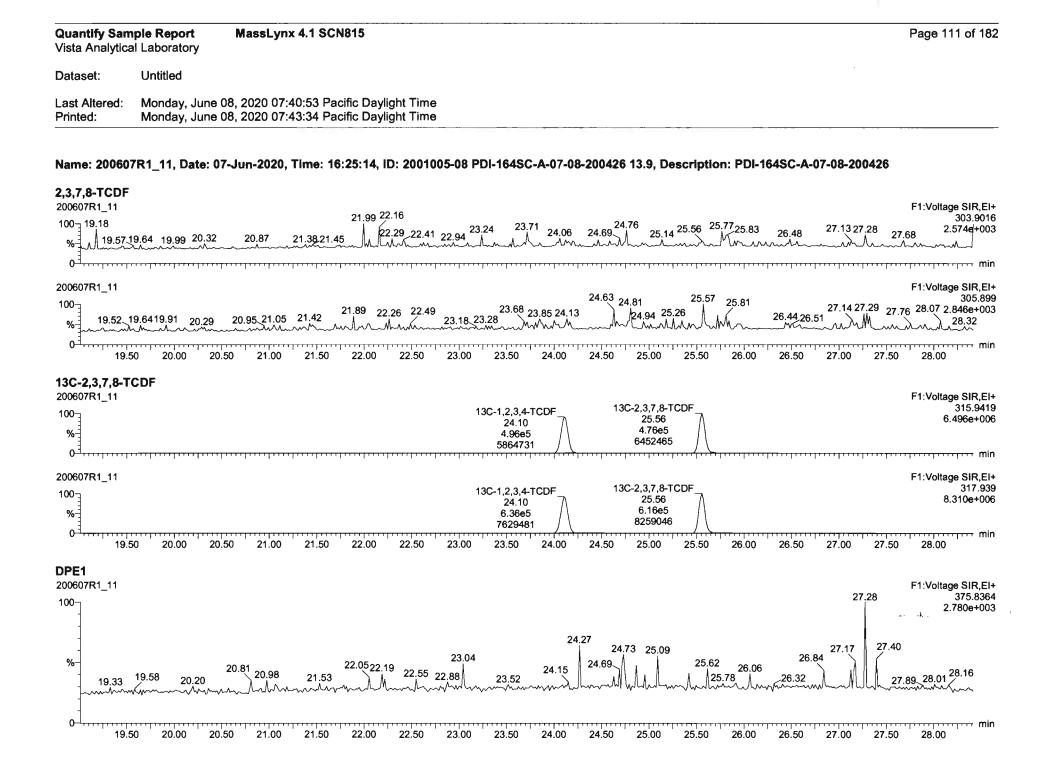
Quantify Sam Vista Analytica		Page 110 of 182
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Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



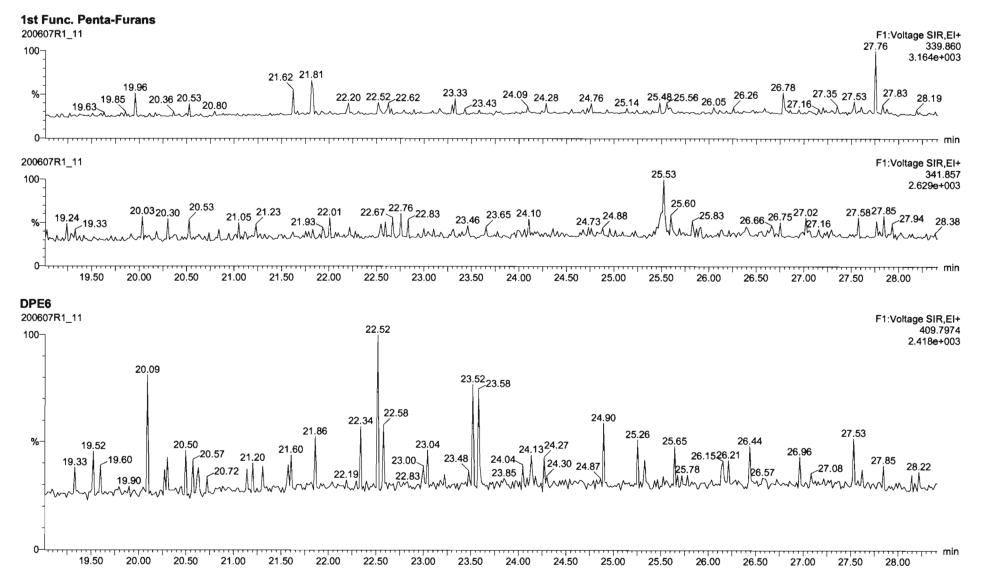


Work Order 2001005

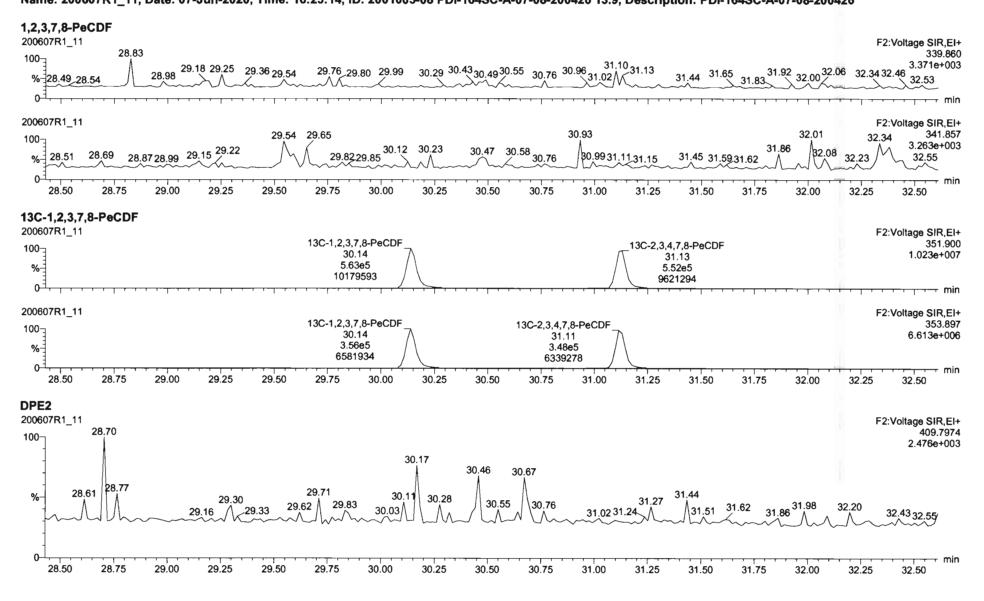
Page 278 of 694



Quantify Sam Vista Analytica		Page 112 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	

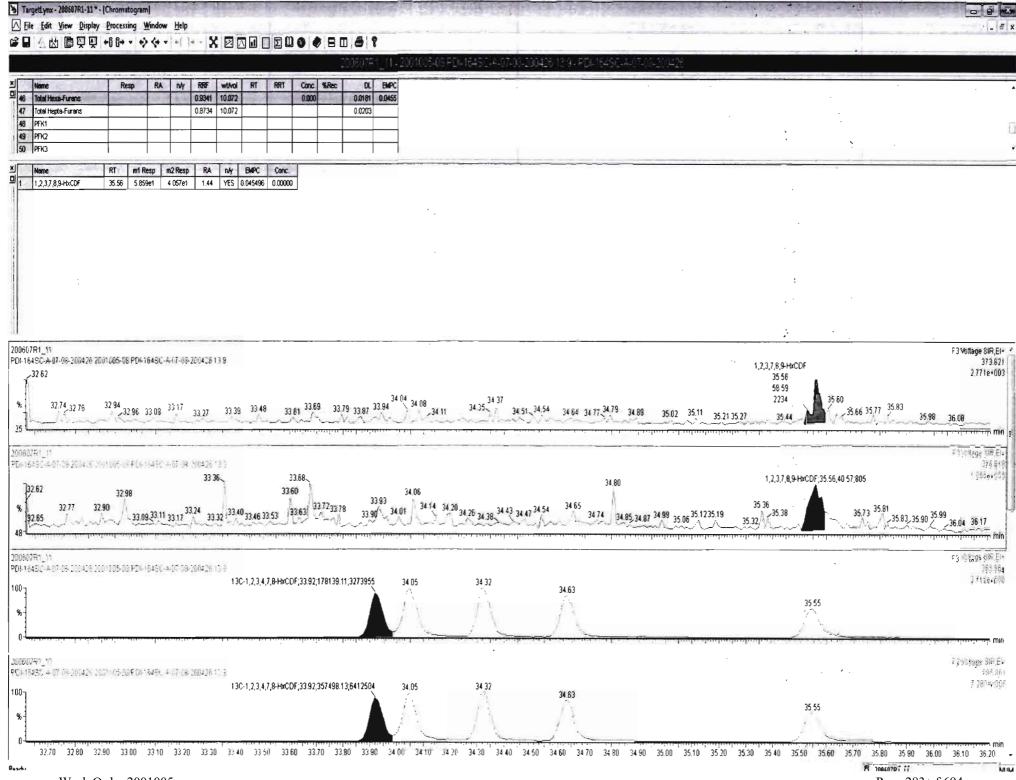


Quantify Sam Vista Analytica		Page 113 of 182
Dataset:	Untitled	
Last Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	



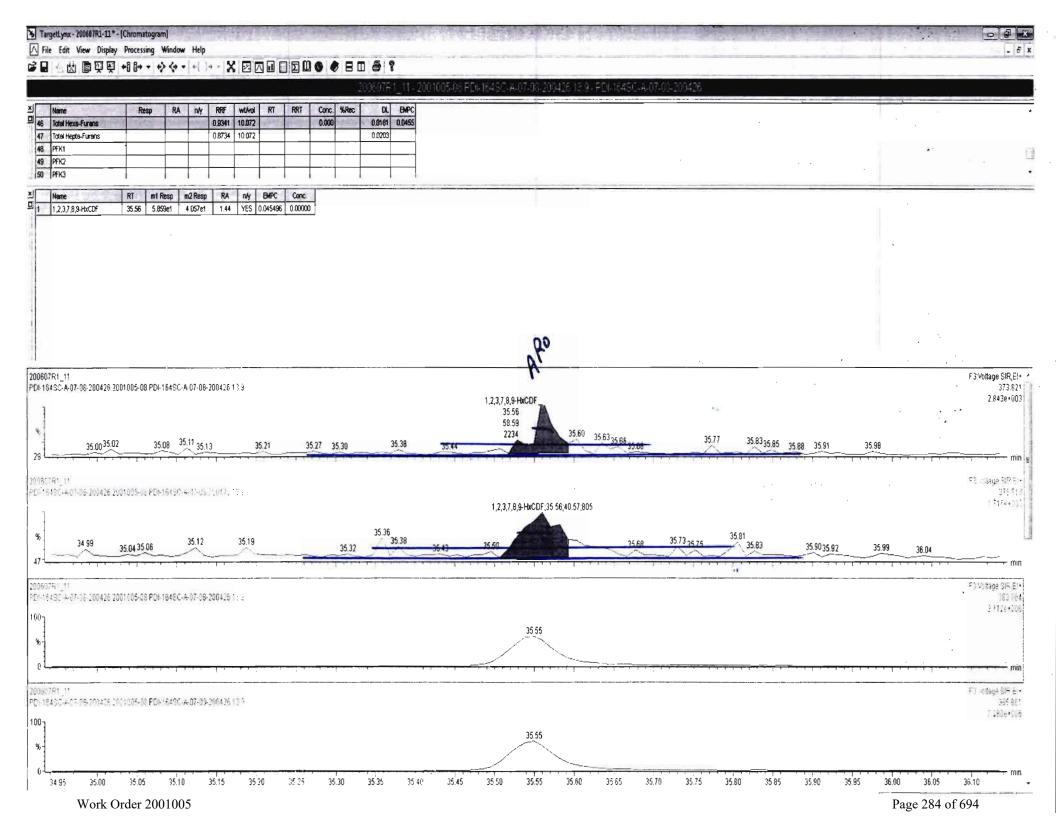
Quantify Sam /ista Analytica		Page 114 of 18
Dataset:	Untitled	
ast Altered: Printed:	Monday, June 08, 2020 07:40:53 Pacific Daylight Time Monday, June 08, 2020 07:43:34 Pacific Daylight Time	
lame: 200607	R1_11, Date: 07-Jun-2020, Time: 16:25:14, ID: 2001005-08 PDI-164SC-A-07-08-200426 13.9, Description: PDI-164SC-A-07-08	-200426
,2,3,4,7,8-Hx 00607R1_11 10032.62	25.5	F3:Voltage SIR,EI 3056 373.82 3 Å 35.60 3.518e+00
%-32.74	32.94 ^{33.09} 33.17 33.27 33.39 33.48 33.69 33.94 34.04 34.08 34.11 34.37 34.54 34.64 34.79 34.89 35.02 35.11 35.27 35.38	35.77 35.83
00607R1_11 00-32.62 %32.77	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	F3:Voltage SIR,E 35.56 35.73 35.81 1.987e+00
0 ¹		35.60 35.80 36.00
0607R1_11	13C-1,2,3,6,7,8-HxCDF;34.05;2.20e5;3674471 13C-2,3,4,6,7,8-HxCDF;34.63;1.85e5;3089389	F3:Voltage SIR,E 383.8 3.712e+0
%		
00607R1_11	13C-1,2,3,4,7,8-HxCDF;33.92;3.57e5;6412504 13C-1,2,3,4,6,9-HxCDF;34.32;4.10e5;7168795 13C-1,2,3,7,8,9-HxCDF;35.55;2.99e5;427855	F3:Voltage SIR,E 385.84
0 ⁻¹	0 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
PE3 00607R1_11	34.54 j	F3:Voltage SIR,E 445.75 1.726e+0
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	35.72

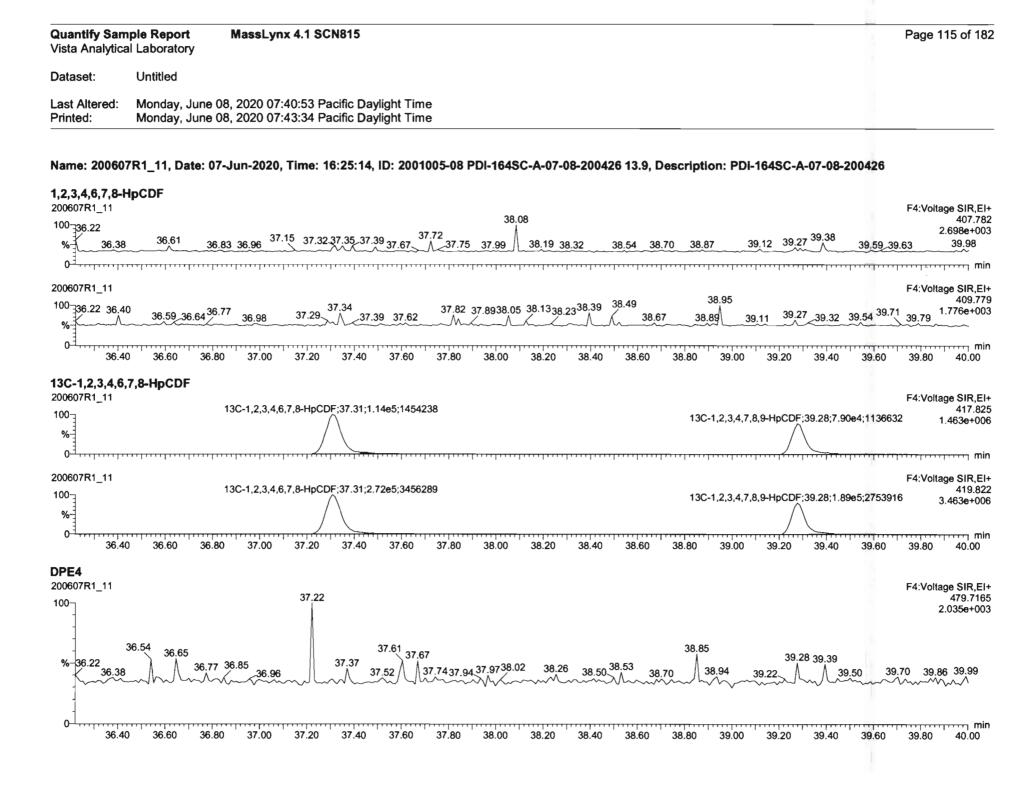
0------ min 36.00 32.80 33.00 33.20 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60 35.80 33.40

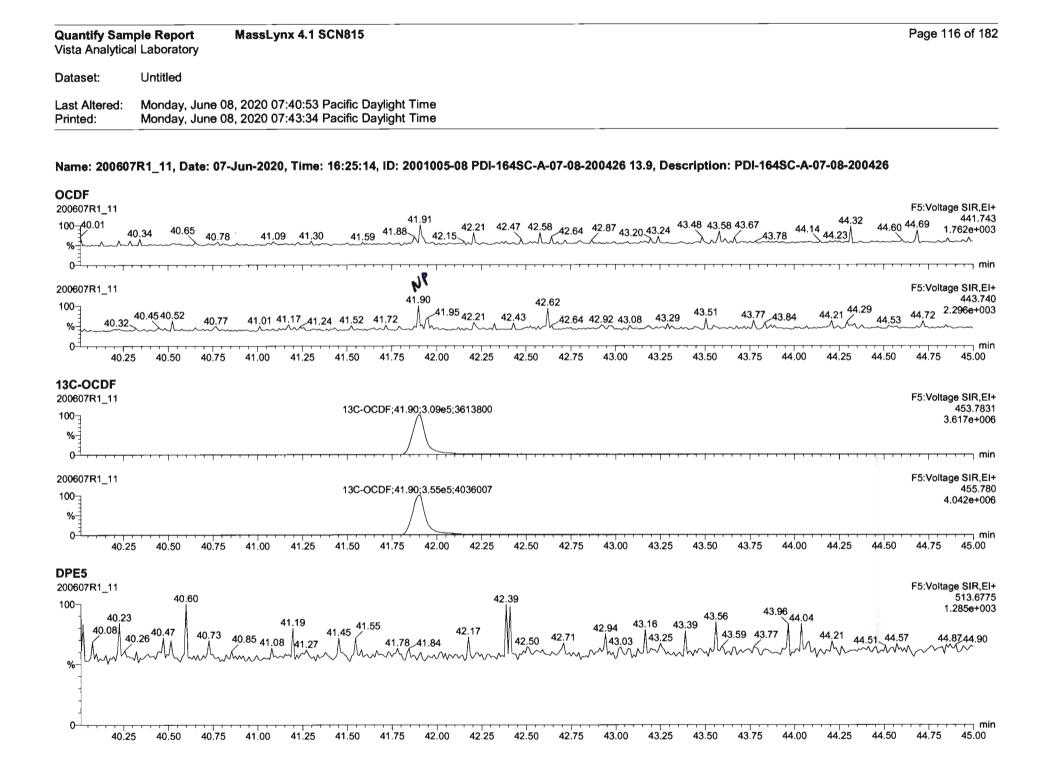


Work Order 2001005

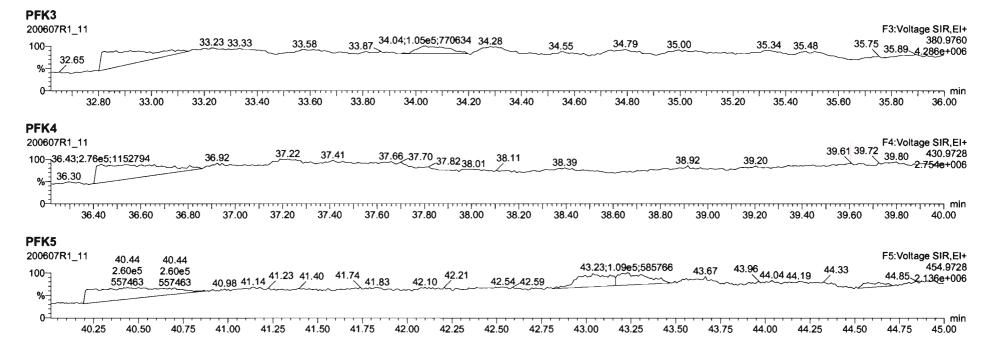
Page 283 of 694







Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 117 of 182
Dataset:	Untitled		
ast Altered: Printed:		08, 2020 07:40:53 Pacific Daylight Time 08, 2020 07:43:34 Pacific Daylight Time	
ame: 200607 FK1	7R1_11, Date: 07	07-Jun-2020, Time: 16:25:14, ID: 2001005-08 PDi-164SC-A-07-08-200426 13.9, Description: PDI-164SC-A-07-08-2004	126
0000704 44			EtiVeltece SID El
_	;1.78e5;206468 20.	0.38 21.04 21.14 21.78 22.02 22.28 22.58 22.85 23.25 23.34 24.07 24.37 24.54 25.18 25.36 25.45 26.11 26.56 26.65 27.02 27.	.56 27.67 316.982
%	·····		F1:Voltage SIR,EI 56 27.67 316.982 1.044e+000 27.50 28.00



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID: ST2005/9/41-1		I	Reviewed By: <u>C7 45/19/2020</u>	_	
End Calibration ID:NA			Initials & Date		
	Beg.	End		Beg.	End
ion abundance within QC limits?	\checkmark	NA	Mass resolution >	\square	~
Concentrations within criteria?	\checkmark	Ф	□ 5k □ 6-8K □ 8K & 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	~		intergrated peaks display correctly?	\checkmark	AU
First and last eluters present?		ф	GC Break <20%		
Retention Times within criteria?	\sim	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?	\square	Ф	Comments:		
Correct ICAL referenced?	Ges				
Run Log:					
- Correct instrument listed?		\checkmark			
- Samples within 12 hour clock?	(Y)	N			
- Bottle position verfied?	GEA	3			

Quantify Sam Vista Analytica	nple Summary Report MassLynx 4.1 SCN815 al Laboratory	Page
Dataset:	U:\VG12.PRO\Results\200519R1\200519R1-1.qld	
Last Altered: Printed:	Tuesday, May 19, 2020 09:32:26 Pacific Daylight Time Tuesday, May 19, 2020 09:32:45 Pacific Daylight Time	GEB 05/

GEB 05/19/2020 C7 05/1 9/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200519R1_1, Date: 19-May-2020, Time: 08:37:57, ID: ST200519R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1 10 (1971)									n tij for		AL-	ana Alisana Malakana ang barang ang	and the second second	a da ata ata 1
	1 2,3,7,8-TCDD	1.26e5	1.45e6	0.77	NO	0.947	26.08	26.08	NO	1.001	1.001	9.1633	91.6	NO
	2 1,2,3,7,8-PeCDD	4.84e5	1.11e6	0.61	NO	0.942	31.15	31.14	NO	1.001	1.000	46.447	92.9	NO
	3 1,2,3,4,7,8-HxCDD	4.13e5	7.61e5	1.25	NO	1.06	34.51	34.52	NO	1.000	1.001	51.034	102	NO
	4 1,2,3,6,7,8-HxCDD	4.55e5	1.07e6	1.28	NO	0.915	34.60	34.62	NO	1.000	1.001	46.710	93.4	NO
	5 1,2,3,7,8,9-HxCDD	3.91e5	8.84e5	1.26	NO	0.915	34.89	34.89	NO	1.000	1.000	48.287	96.6	NO
	6 1,2,3,4,6,7,8-HpCDD	3.19e5	7.22e5	1.02	NO	0.898	38.39	38.39	NO	1.000	1.000	49.136	98.3	NO
and the second second	7 OCDD	6.48e5	1.38e6	0.88	NO	0.933	41.36	41.38	NO	1.000	1.000	100.35	100	NO
	8 2,3,7,8-TCDF	1.42e5	1.85e6	0.75	NO	0.787	25.15	25.14	NO	1.001	1.001	9.7754	97.8	NO
y	9 1,2,3,7,8-PeCDF	7.10e5	1.59e6	1.56	NO	0.910	29.83	29.83	NO	1.001	1.001	49.094	98.2	NO
	10 2,3,4,7,8-PeCDF	7.16e5	1.54e6	1.53	NO	0.966	30.85	30.83	NO	1.001	1.000	48.037	96.1	NO
	11 1,2,3,4,7,8-HxCDF	4.92e5	1.03e6	1.22	NO	0.878	33.64	33.65	NO	1.000	1.000	54.146	108	NO
	12 1,2,3,6,7,8-HxCDF	5.67e5	1.24e6	1.21	NO	0.874	33.77	33.77	NO	1.000	1.000	52.307	105	NO
	13 2,3,4,6,7,8-HxCDF	5.28e5	1.08e6	1.20	NO	0.922	34.37	34.35	NO	1.001	1.000	52.919	106	NO
Py	14 1,2,3,7,8,9-HxCDF	4.19e5	9.10e5	1.23	NO	0.864	35.23	35.24	NO	1.000	1.000	53.280	107	NO
	15 1,2,3,4,6,7,8-HpCDF	3.96e5	8.45e5	1.01	NO	0.871	37.00	36.98	NO	1.001	1.000	53.861	108	NO
	16 1,2,3,4,7,8,9-HpCDF	3.08e5	5.58e5	1.01	NO	1.01	38.97	38.99	NO	1.000	1.001	54.591	109	NO
	17 OCDF	6.81e5	1.63e6	0.88	NO	0.802	41.55	41.56	NO	1.000	1.000	104.23	104	NO
	18 13C-2,3,7,8-TCDD	1.45e6	1.23e6	0.77	NO	1.16	26.05	26.05	NO	1.026	1.027	101.03	101	NO
	19 13C-1,2,3,7,8-PeCDD	1.11e6	1.23e6	0.63	NO	0.847	31.14	31.12	NO	1.227	1.227	105.75	106	NO
	20 13C-1,2,3,4,7,8-HxCDD	7.61e5	1.09e6	1.28	NO	0.750	34.51	34.49	NO	1.014	1.014	92.952	93.0	NO
	21 13C-1,2,3,6,7,8-HxCDD	1.07e6	1.09e6	1.28	NO	0.963	34.62	34.60	NO	1.017	1.017	101.34	101	NO
and the second	22 13C-1,2,3,7,8,9-HxCDD	8.84e5	1.09e6	1.26	NO	0.838	34.89	34.88	NO	1.025	1.025	96.673	96.7	NO
	23 13C-1,2,3,4,6,7,8-HpCDD	7.22e5	1.09e6	1.03	NO	0.641	38.38	38.38	NO	1.128	1.128	103.08	103	NO
	24 13C-OCDD	1.38e6	1.09e6	0.90	NO	0.586	41.37	41.36	NO	1.216	1.216	215.96	108	NO
	25 13C-2,3,7,8-TCDF	1.85e6	1.73e6	0.77	NO	1.03	25.10	25.12	NO	0.989	0.990	103.47	103	NO
	26 13C-1,2,3,7,8-PeCDF	1.59e6	1.73e6	1.58	NO	0.845	29.83	29.81	NO	1.176	1.175	108.91	109	NO
	27 13C-2,3,4,7,8-PeCDF	1.54e6	1.73e6	1.60	NO	0.814	30.82	30.82	NO	1.215	1.215	109.78	110	NO
	28 13C-1,2,3,4,7,8-HxCDF	1.03e6	1.09e6	0.52	NO	1.00	33.65	33.64	NO	0.989	0.989	94.201	94.2	NO
	29 13C-1,2,3,6,7,8-HxCDF	1.24e6	1.09e6	0.51	NO	1.14	33.77	33.76	NO	0.992	0.992	99.946	99.9	NO
	30 13C-2,3,4,6,7,8-HxCDF	1.08e6	1.09e6	0.50	NO	1.02	34.34	34.33	NO	1.009	1.009	97.022	97.0	NO
	31 13C-1,2,3,7,8,9-HxCDF	9.10e5	1.09e6	0.51	NO	0.845	35.23	35.23	NO	1.035	1.035	98.601	98.6	NO

Page 1 of 2

Quantify Sam Vista Analytica	ple Summary Report I Laboratory	t MassLynx 4.1 SCN815
_		

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200519R1\200519R1-1.qld

Last Altered: Tuesday, May 19, 2020 09:32:26 Pacific Daylight Time Printed: Tuesday, May 19, 2020 09:32:45 Pacific Daylight Time

				A. 1-1-		ž na te se							al an ingene	
100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	32 13C-1,2,3,4,6,7,8-HpCDF	8.45e5	1.09e6	0.43	NO	0.771	36.96	36.97	NO	1.086	1.086	100.25	100	NO
	33 13C-1,2,3,4,7,8,9-HpCDF	5.58e5	1.09e6	0.43	NO	0.482	38.97	38.97	NO	1.145	1.145	105.88	106	NO
	34 13C-OCDF	1.63 e 6	1.09e6	0.88	NO	0.669	41.54	41.55	NO	1.221	1.221	223.12	112	NO
	35 37CI-2,3,7,8-TCDD	1.30e5	1.23e6			1.10	26.08	26.06	NO	1.028	1.027	9.6144	96.1	NO
	36 13C-1,2,3,4-TCDD	1.23e6	1.23e6	0.80	NO	1.00	25.35	25.38	NO	1.000	1.000	100.00	100	NO
	37 13C-1,2,3,4-TCDF	1.73e6	1.73e6	0.79	NO	1.00	23.56	23.59	NO	1.000	1.000	100.00	100	NO
	38 13C-1,2,3,4,6,9-HxCDF	1.09e6	1.09e6	0.52	NO	1.00	34.00	34.03	NO	1.000	1.000	100.00	100	YES OF

Quantify Compound Summary ReportMassLynx 4.1 SCN815Vista Analytical Laboratory VG-11

VISIA Analytica: Laboratory

Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 13:30:55 Pacific Daylight Time Printed: Tuesday, May 19, 2020 13:31:06 Pacific Daylight Time

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

	13 A.	der seine		Acq.Date	ACO TIME
2		200519R1_1	ST200519R1_1 1613 CS3 19L2305	19-May-20	08:37:57
	A.	200519R1_2	B0E0107-BS1 OPR 10	19-May-20	09:26:30
		200519R1_3	SOLVENT BLANK	19-May-20	10:13:45
·		200519R1_4	B0E0107-BLK1 Method Blank 10	19-May-20	10:59:57
. ÷.	i,	200519R1_5	B0E0107-BLK1 Method Blank 10	19-May-20	11:47:22
-		200519R1_6	2000948-15RE1 PDI-161SC-A-05-06-200424	19-May-20	12:35:05

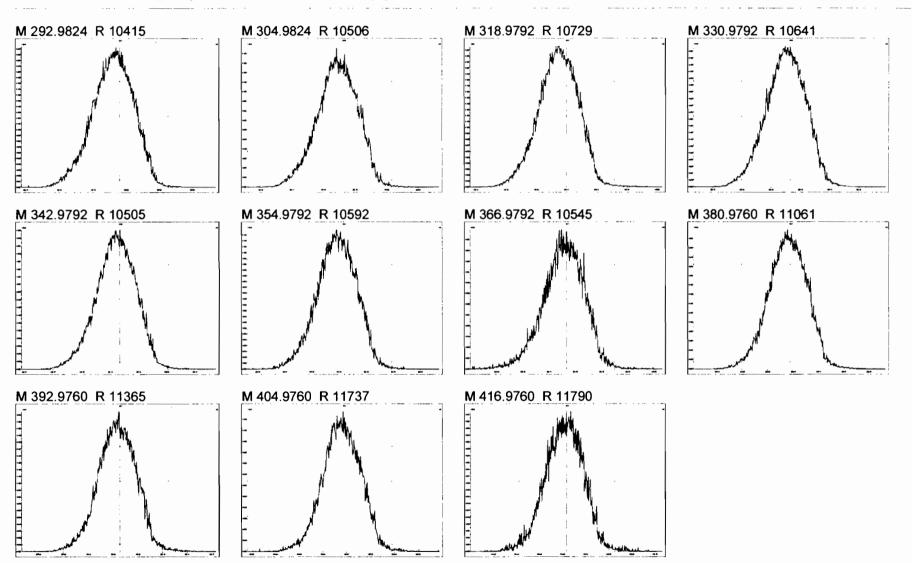
Experiment Calibration Report

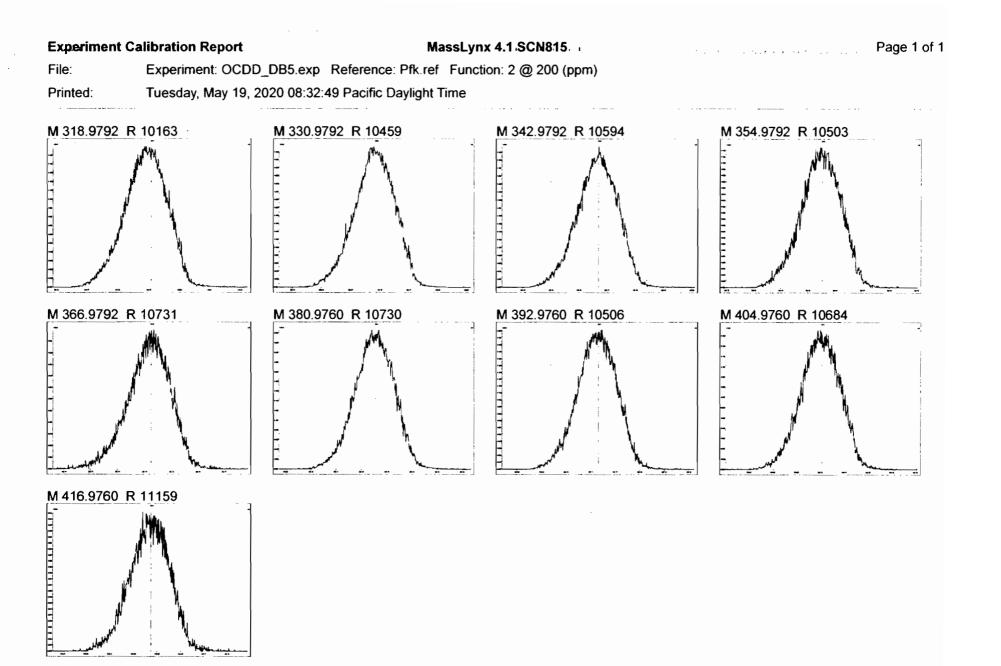
MassLynx 4.1 SCN815

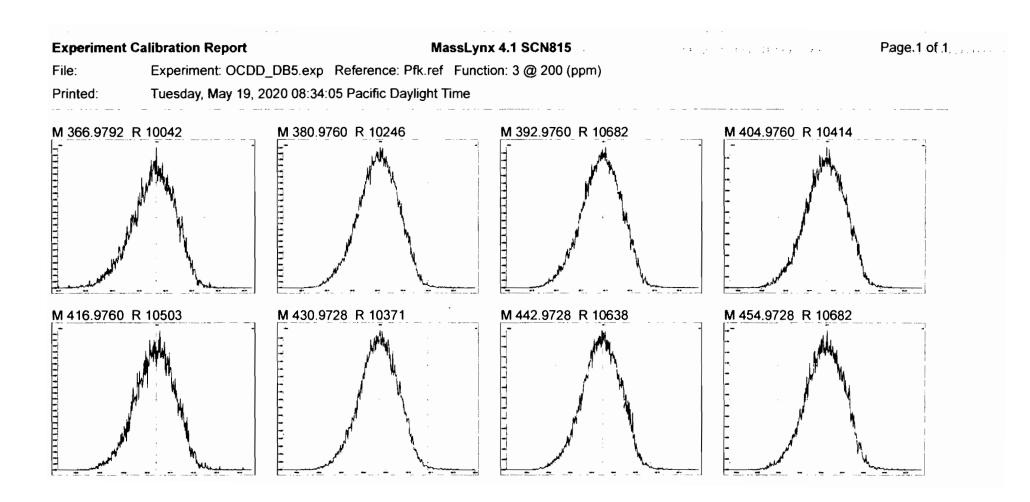
Page 1 of 1

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

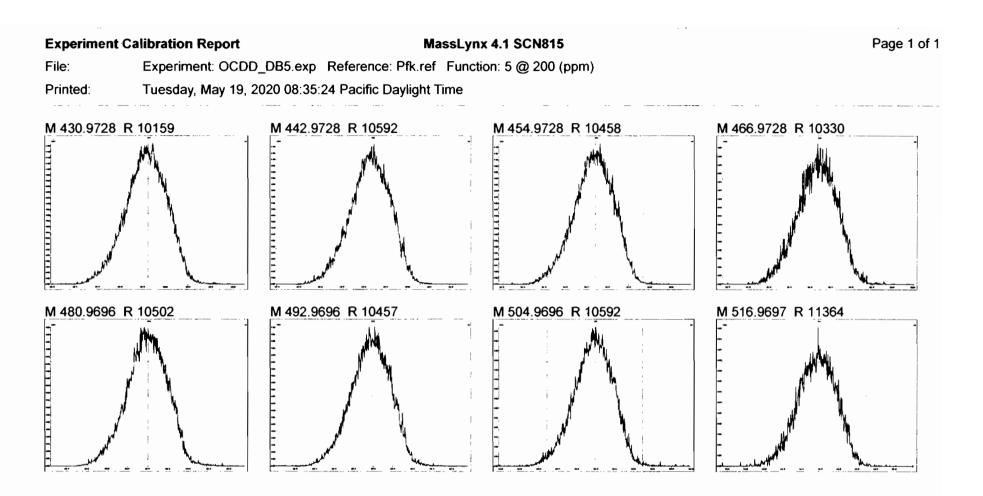
Printed: Tuesday, May 19, 2020 08:32:15 Pacific Daylight Time







Experiment Calibration Report MassLynx 4.1 SCN815 Page 1 of 1 File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm) Printed: Tuesday, May 19, 2020 08:34:46 Pacific Daylight Time M 404.9760 R 10414 M 416.9760 R 10593 M 430.9728 R 10503 M 442.9728 R 10243 M 454.9728 R 10330 M 466.9728 R 11518 M 480.9696 R 10593



	n ple Summary Report al Laboratory VG-11	MassLynx 4.1 SCN815		Page 1 of 1
Dataset:	Untitled			
Last Altered: Printed:		:25:14 Pacific Daylight Time :25:26 Pacific Daylight Time	 	

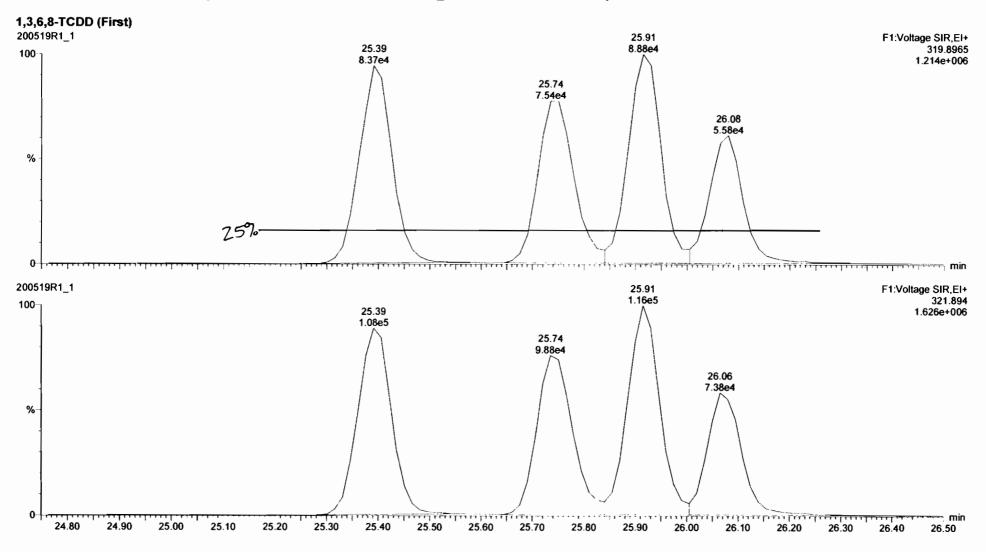
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	# Name	RT
1	1 1,3,6,8-TCDD (First)	21.90
2	2 1,2,8,9-TCDD (Last)	27.07
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.54
5	5 1,2,4,6,7,9-HxCDD (First)	33.04
6	6 1,2,3,7,8,9-HxCDD (Last)	34.89
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.36
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.39
9	9 1,3,6,8-TCDF (First)	19.84
10	10 1,2,8,9-TCDF (Last)	27.22
11	11 1,3,4,6,8-PeCDF (First)	27.17
12	12 1,2,3,8,9-PeCDF (Last)	31.78
13	13 1,2,3,4,6,8-HxCDF (First)	32.48
14	14 1,2,3,7,8,9-HxCDF (Last)	35.24
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.98
16	16 1.2.3.4,7,8,9-HpCDF (Last)	38.99

Quantify Sample Report MassLynx 4.1 SCN815 ì .. Vista Analytical Laboratory VG-11 Untitled Dataset: Last Altered: Tuesday, May 19, 2020 09:25:14 Pacific Daylight Time Tuesday, May 19, 2020 09:25:26 Pacific Daylight Time GRB 05/19/2020 Printed:



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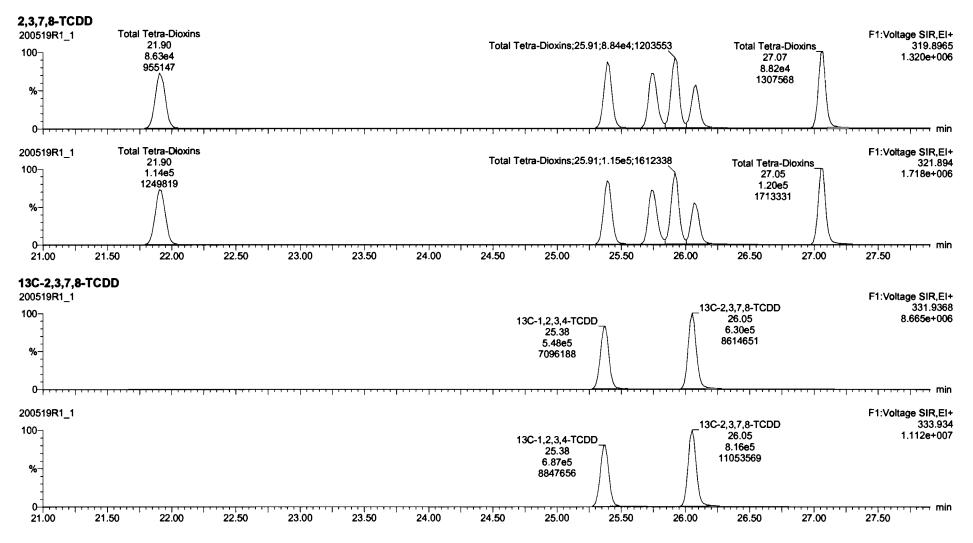


Page 1 of 1 v annew

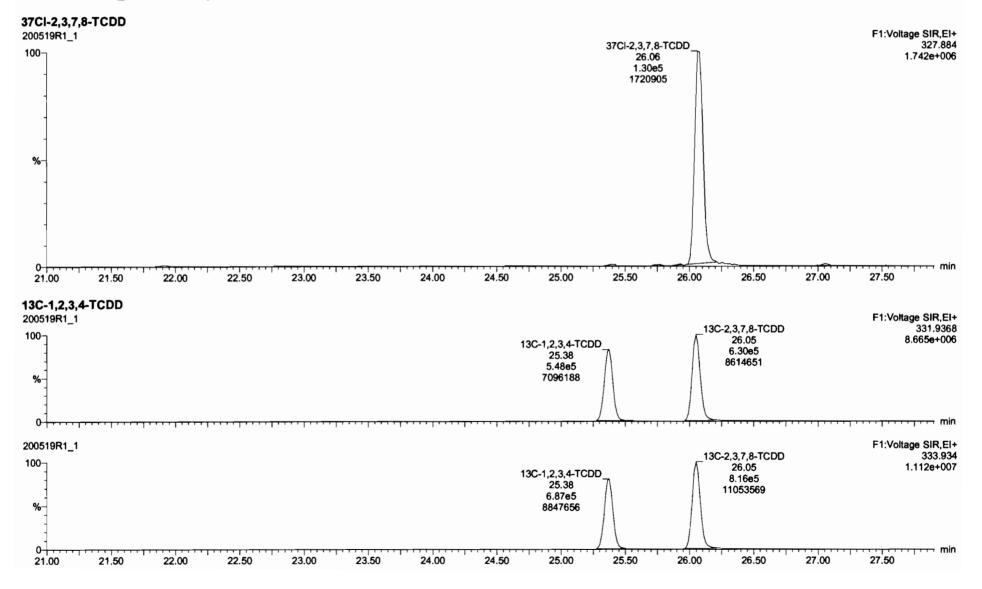
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Quantify San Vista Analytica		Page 1 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, May 19, 2020 09:28:04 Pacific Daylight Time Tuesday, May 19, 2020 09:28:51 Pacific Daylight Time	

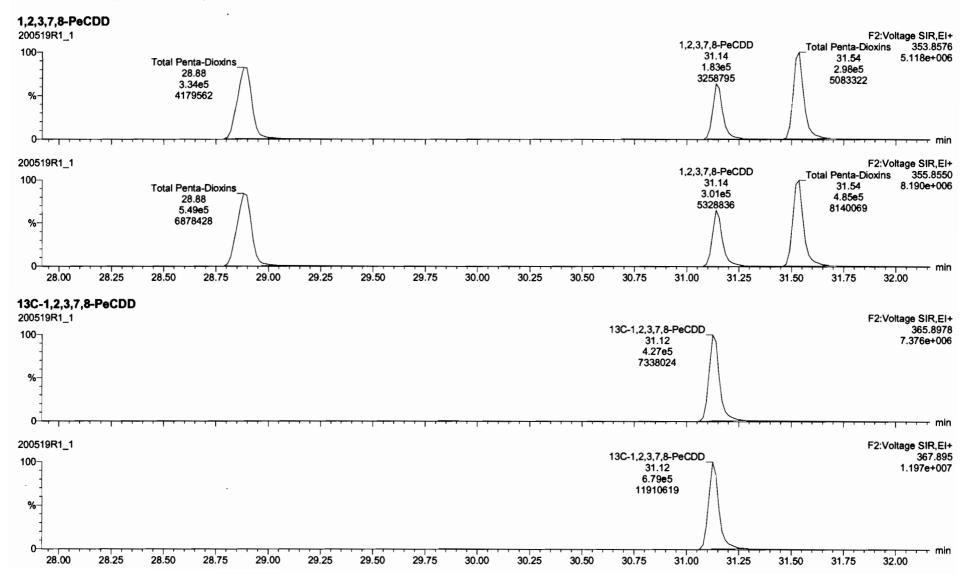
Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23



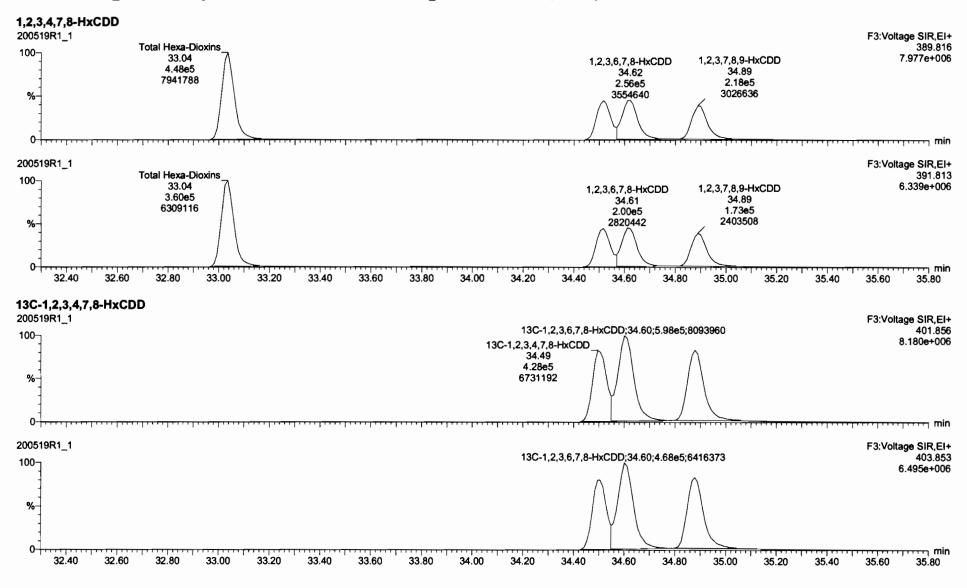
Quantify Sam Vista Analytica		Page 2 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, May 19, 2020 09:28:04 Pacific Daylight Time Tuesday, May 19, 2020 09:28:51 Pacific Daylight Time	



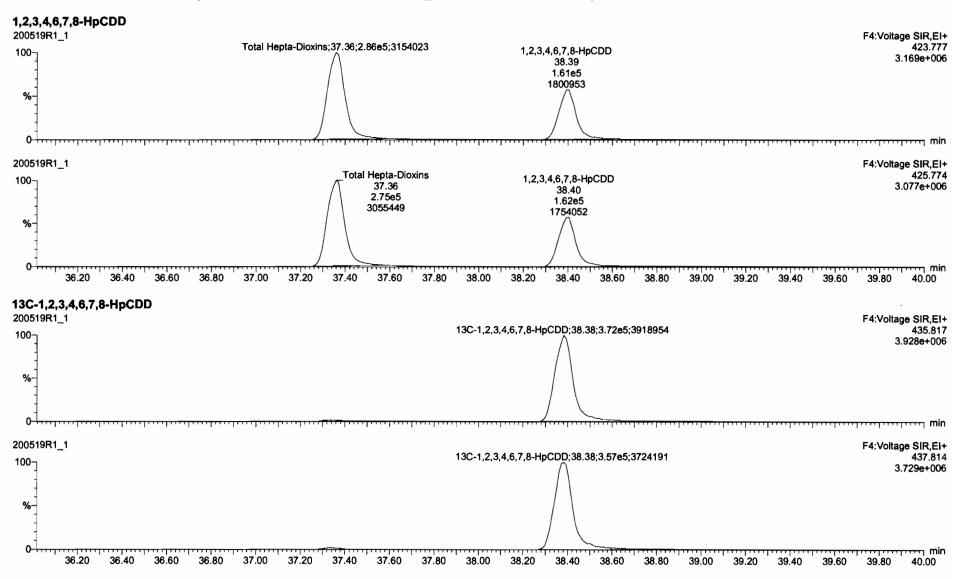
Quantify Sam Vista Analytica	· · ·	Page 3 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, May 19, 2020 09:28:04 Pacific Daylight Time Tuesday, May 19, 2020 09:28:51 Pacific Daylight Time	



Quantify San Vista Analytica		MassLynx 4.1 SCN815	Page 4 of 13
Dataset:	Untitled		
Last Altered: Printed:		19, 2020 09:28:04 Pacific Daylight Time 19, 2020 09:28:51 Pacific Daylight Time	

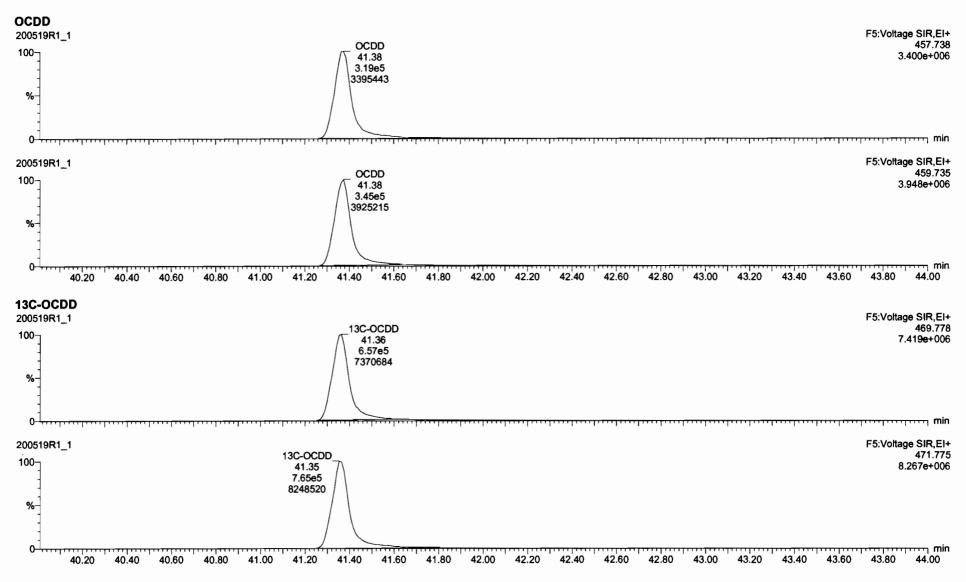


Quantify Sam Vista Analytica		Page 5 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, May 19, 2020 09:28:04 Pacific Day Tuesday, May 19, 2020 09:28:51 Pacific Day	



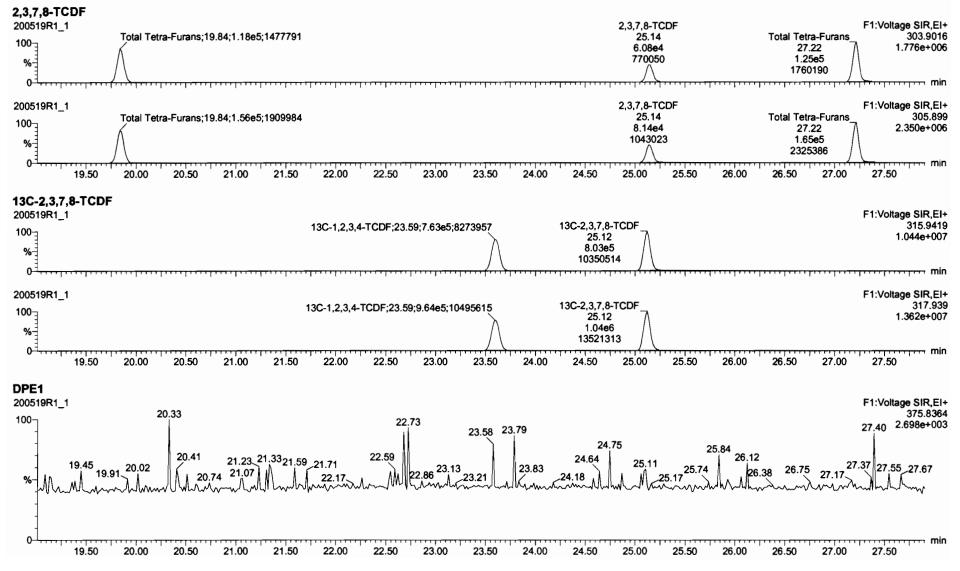
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1 2.3,7.8-TCDC	1 26e5 1 45e	6 077 077	NO	0 9475	26.08 21	80 37	NO	1 001	1 001	9 16	516	NO	
2 1.2.3,7.8-PeCDD	4 84e5 1.11e			0 9425	31 15 3		NO	1 001	1 000	46.4	92.9	NO	
3 1.2 3.4.7 8-HxCDD	4.13e5 7 61e			1 0641	34 51 34		NO	1 000	1 001		102	NO	
4 1.2 1.8.7 8-HxCDD	4 55e5 1 07e			0 9145	34 60 34		NK)	1 000	1 001	467	53.4	NO	
5 1 2,3,7 8,9-HxCDD	3 91e5 8 84e			0 9149	34.69 3		NO	1 000	1 000	483	96.6	NO	
7 0000	8.6465 1.420	6 0 29 0 92		0 0335		1 38	NO	1 000	1 000	100	100	NO	
6 2.2,7,8-TCDF	1 42e5 1 85e				25 15 2		NO	1 001	1 001	976	97 8	NO	
9 1 2 3 7 8-PeCDF	7 10e5 1 59e			0 9102	29.52 7		NO	1 001			98 2	NO	
10 2.3 4.7.8-PeCDF	7 15e5 1.54e			0 9564	30 85 34		NO	1 001	1 000	48 0	961	NO	
11 1 2,3,4 7,8-HxCDF	4 92e5 1 93e	6 124 122	NO	0 8782	33 64 3	3 65	NO	1 000	1 000	541	108	80	
12 1.2.3,6.7 8-HuCDF	5 87e5 1 24e	6 1.24 1.21	NO	0 8740	33 77 3	3 77	NO	1 000	1 000	523	105	NO	
13 2.3 4.6.7 8-HxCDF	5.28e5 1 08e			0 9217	34 37 34	¥ 35	NC	1 001	1 000	529	105	NO	
14 1.2.3.7.8.9-HxCDF	4 19e5 9 36e			0 8642	35 23 3		NO	1 000	1 000	518	104	NU	
15 1 2,3,4 5,7 8-HpCDF	3 9665 8 456			0 8712	37 00 3		NO	1 001	1 000	53.9	108	NO	
16 1.2.3.4.7.8.5-HpCDF	3 14e5 5.80e			1 0116	38.97 3		NO	1 000	1.001	53.6	107	NO	
17 OCDF 18 13C-2.3,7,8-TCDD	6 61e5 1 67e			0 6021	41 55 4		NO	1 000	1 000	102	102	NO	
19 13C-1.2,3 7.8-PeCDD	145e6 123e 111e6 123e				31 14 3		NO	1 227	1 227		101	NN)	
20 13C-12,347,8-HxC00	7.61e5 1 09e			0 7 499	34.51 3		NO	1 014		93.0	92.0	NO	
21 13C-1.2.3.6 7 8-HxCDD	1.07e6 1 09e				34.62 34		NO	1 017	1.017		101	NO	
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Quantify Sam Vista Analytica		Page 6 of 13
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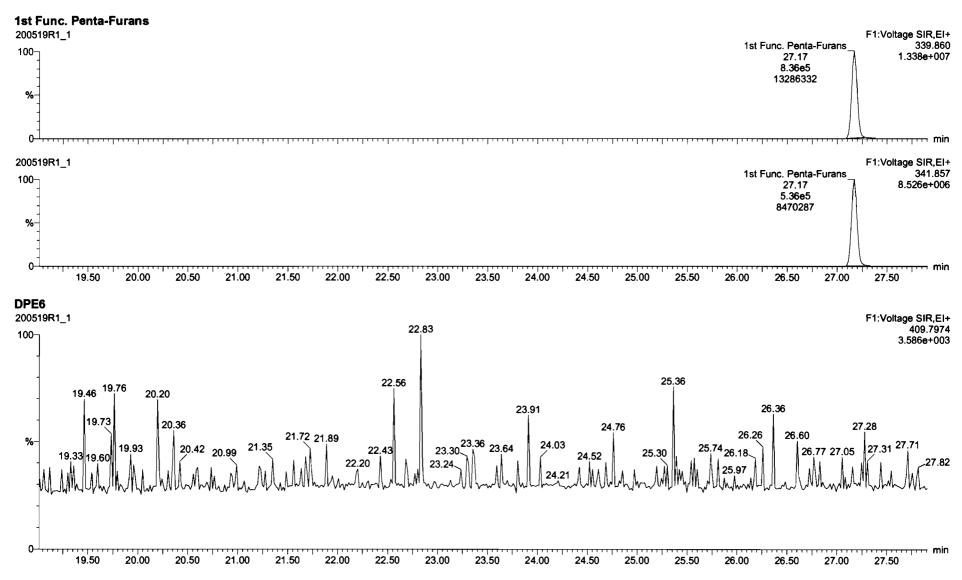


Name -	Resp S Resp 1	Ned RA RA NY	RRF Pred.RT RF	RTFINE	Pred RRT	RHT COMC	SRIC STU	
2,3,7.8-TCDC	12665 14566					1 001 9 16	516	วี
1,2,3,7.8-PeCDD	4 84e5 1 11e6	0 63 0 51 NO	0 9425 31 15 31 14	4 NO	1 001	1 900 464	92.9	
2 3,4.7 8-HxCDD	4 13e5 7 61e5	124 125 NO	1 0641 34 51 34 52	NO NO	1 000	1 001 51 0	102	
1,2,3.8.7,8-HxCDD	4 55e5 1 07e6		0 9145 34 60 34 64	_		1 001 46 7	53.4	
1,2,3,7 8,9-HxCDD	3 91e5 8 84e5		0 9149 34 89 34 88			1 000 48 3	96.6	
1,2.3,4,6 7,8-HpCDD	3 19e5 7 22e5		0 8979 38 39 38 39			1 000 49 1	98.3	
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2.3,7,8-TCDF 1,2,3,7,8-PeCDF	1 42e5 1 85e6 7 10e5 1 59e6		0 7871 25 15 25 14			1001 978 1001 49.1	97.8 98.2	
2,3 4,7,8-PeCDF	7 16e5 1 54e6		0 9664 30 85 30 8	_		1 000 48 0	961	
.2,3.4.7,8-HxCDF	4 92e5 1 03e6		0 8782 33 64 33 65	_		1 000 54 1	108	
2.3,6.7.8-HxCDF	5 67e5 1 24e6		0 8740 33.77 33 7			1 000 52.3	105	
2,3.4,6,7 8-HxCDF	5 28e5 1 08e6		0 9217 34 37 34 35	_		1000 52.9	106	
1.2.3.7.8.9-HxCDF	4 19e5 9 36e5					1 000 51 6	104	
1.2.3,4.6.7.8-HpCDF	3 96e5 8 45e5	104 101 NO	0 8712 37 00 36 96	16 NO	1 001 1	1000 53.9	108	
1,2,3,4,7.8,9-HpCDF	3 14e5 5 80e5		1.0116 38.97 38 96	9 NO	1 000	1 001 53.6	107	
DCDF	6.81e5 1 67e6		0 8021 41 55 41 55			1 000 1 02	102	
13C-2.3,7.8-TCDD	14566 12366		1 1595 26 05 26 05			1 027 101	101	
13C-1.2,3.7,8-PeCD0	1 11e6 1 23e6		0 8472 31 14 31 12			1 227 106	106	2
13C-1 2,3 4 7,8-HxCDD	761e5 109e6		0 7 499 34 51 34 49			1 014 930	93.0	
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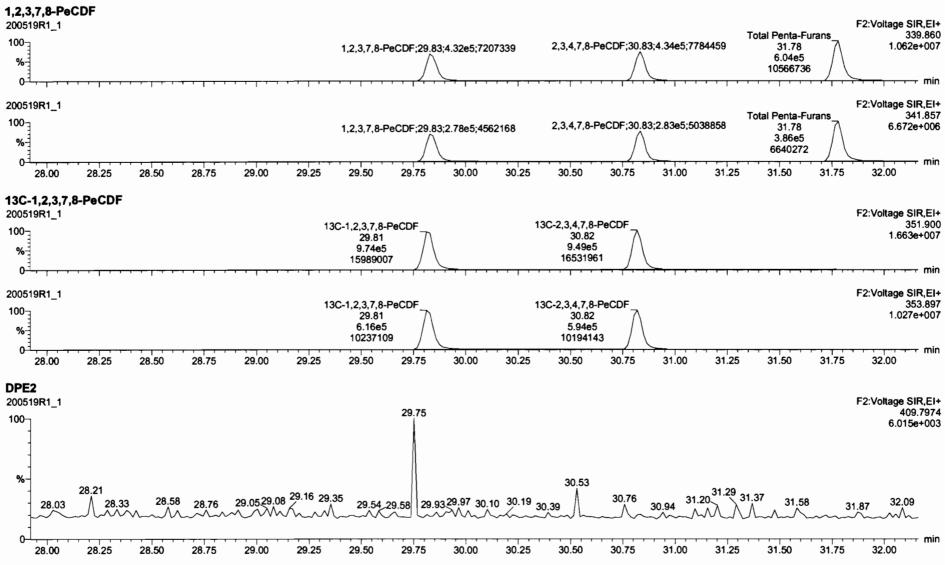
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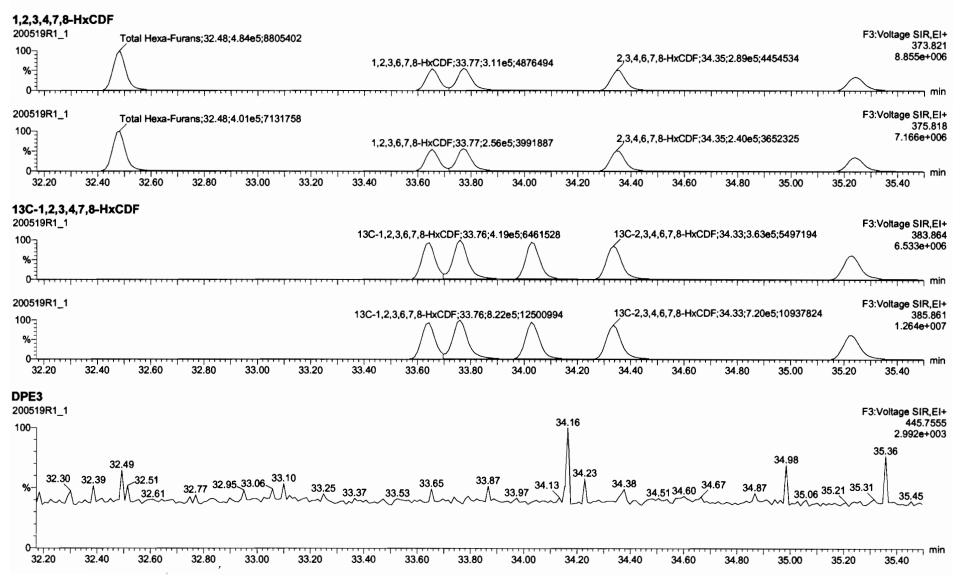
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Quantify Sam Vista Analytica		Page 10 of 13
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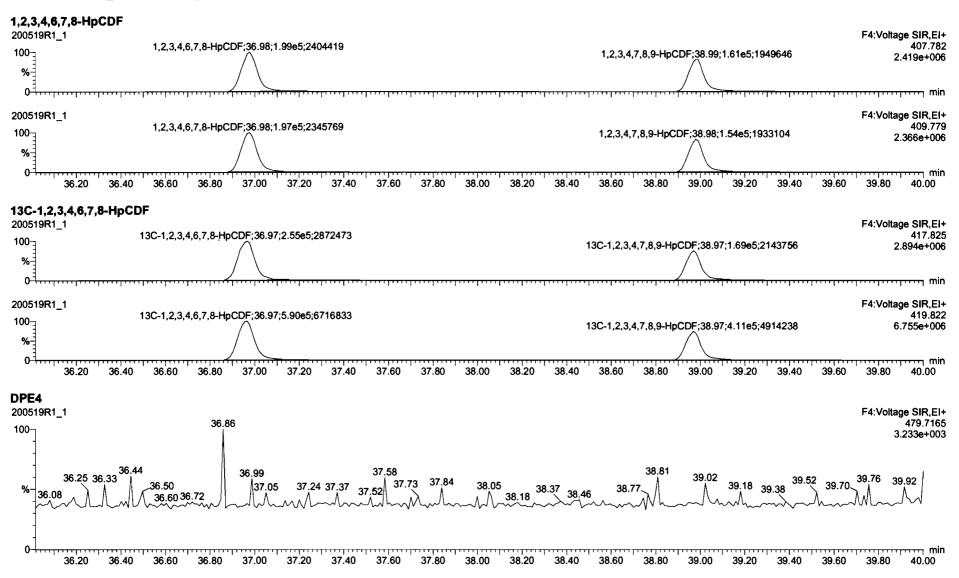


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1 2.3.7.8-TCDD		15e6 0 77				26 08 26			01 1 001					
2 1.2.3,7.8-PeCDD		11e6 0.63			9425			40 10			54 929			
3 1.2 3.4.7 8-HxCDD			125			24.51 34		¥O 10			10 102			
4 1.2 3.6.7 8-HxCDD			1.28			34 60 34	_	NO 10						
5 1 2 3 7 8 9-HxCOO			1 26		9149			NO 10						
6 1.2.3.4.6 7.8-HpCD0			1 02 0 58			38 39 38 41 36 41		NO 10			96 3			
8 2.3,7,6-TCDF			0.75			25 15 25.					76 578			
9 1,2,3,7,8-PeCDF			156			29 83 29		NO 10						
10 2.3 4.7.8-PeCDF		406 1 55				30 85 30	_	10 10			_			
11 1.2.3.4.7.8-HxCOF						33 64 33	65 1	NO 10						
12 1.2.3,6,7.8-HxCDF	5 87e5 1 2	4e6 1.24	1.21	NO 0.	.8740	33.77 33.	77 1	¥O 10	00 1 000	5	2 3 105	NO		
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15 1 2.3,4 6,7.8-HpCDF		15e5 1.04				37 00 36		NO 10			3.9 108			
16 1,2.3,4,7.8,9-HpCDF			1.05	NO 1		38.97 38.		•0 10		_				
17 OCDF			0 88	NO 0		41 55 41		ND 10			02 102			
18 13C-2.3,7,8-TCDD			077			26.05 26.		NO 10			01 101	_		
19 13C-1,2,3,7,8-PeCDD		23e6 0.63 29eE 1.24	0.63	NO 0			_	NO 12	_		06 106 30 93 <i>0</i>	_		
20 13C-1.2.3 4 7.8-HxC00 21 13C-1.2.3.6 7.8-HxC00			1.28	NO 0.				NO 10			01 101			
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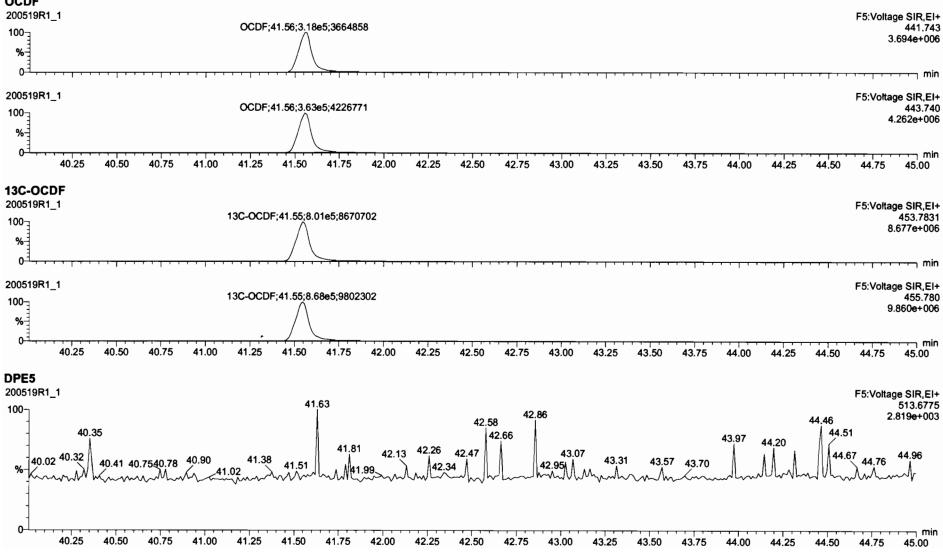
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3		3 1,2 3,4,7 8-HxCDD	4 13e5	7.61e5	124		NO NO	1 0641		34 52	NO	1 000	1 001	510	102		
-		4 1.2.3.6.7.8-HxCDD	4 55e5	1 07e8	1 24		NO	0 9145	34 50		NO	1 000	1 001	467	53.4	NC	
5	_	5 1 2.3.7 8.9-HxCDD	3 51e5	8 84e5	1 24		NO	0 9149		34 89	NO	1 000	1 000	48.3	56.5	NC	
. 6	- 6	6 1.2.3,4,6 7,8-HpCDD	3 1965	1 22+5	1 04	1 02	NO	0 6975	36 39	38 39	NO	1 000	1 000	49 1	983	HC	
7		7 0000	6 4845	1 38+6		0.68	NO	0 9335		41 38	ND	1 000	1 500	100	100	NC	
, .		8 2.3,7,8-TCDF	142e5	1 8506		0.75	NO	0 7871	25 15		NO	1 001	1 001	976		NC	
1		9 1.2.3,7.8-PeCDF	7 10e5	1 55e6		156	HO	0 9102	29 83		NO	1 001	1 001	49 1	98 2	NC	
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		4 1.2.3.7.8.9-HxCDF	4 1965	9 10 05	1 24		HO HO	0 9542		35 24	140 140	1 000	1 000	533	107	N	
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	_	0 13C-12,34.78-HxCDD	7 61 65	1 09+6			NO	0 7 4 9 9		34 49	NO	1014	1 014	93.0	93.0	HC	
2	21	1 13C-1.2.3.6.7.8-HxCDD	1 0768	1 09e6	1 24	1.28	NO	0.9630	34 62	34 60	NO	1 017	1.017	101	101	NC	
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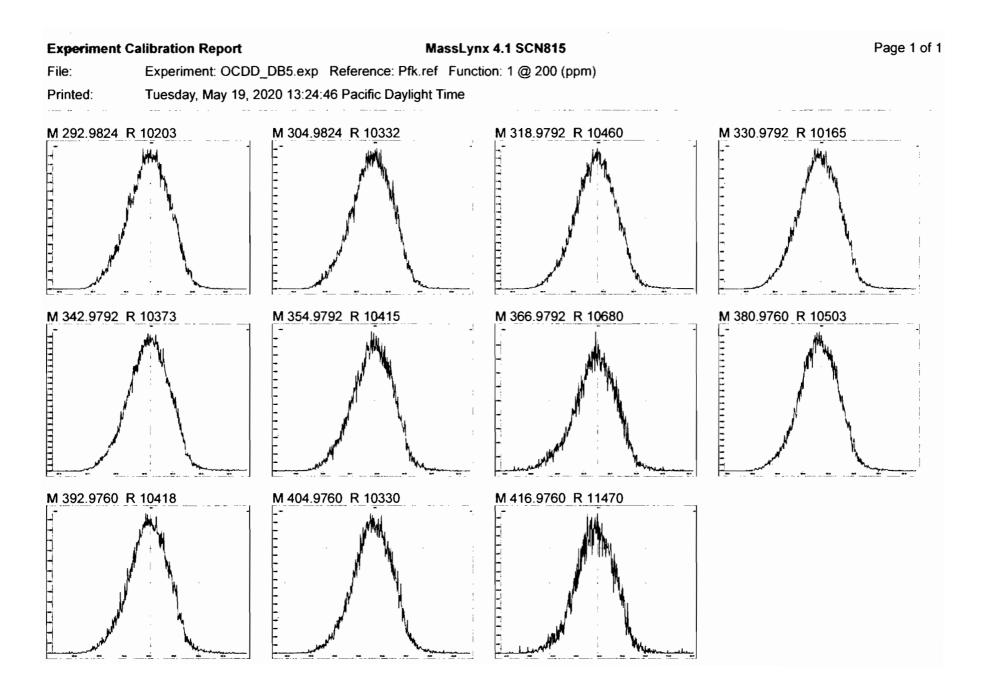
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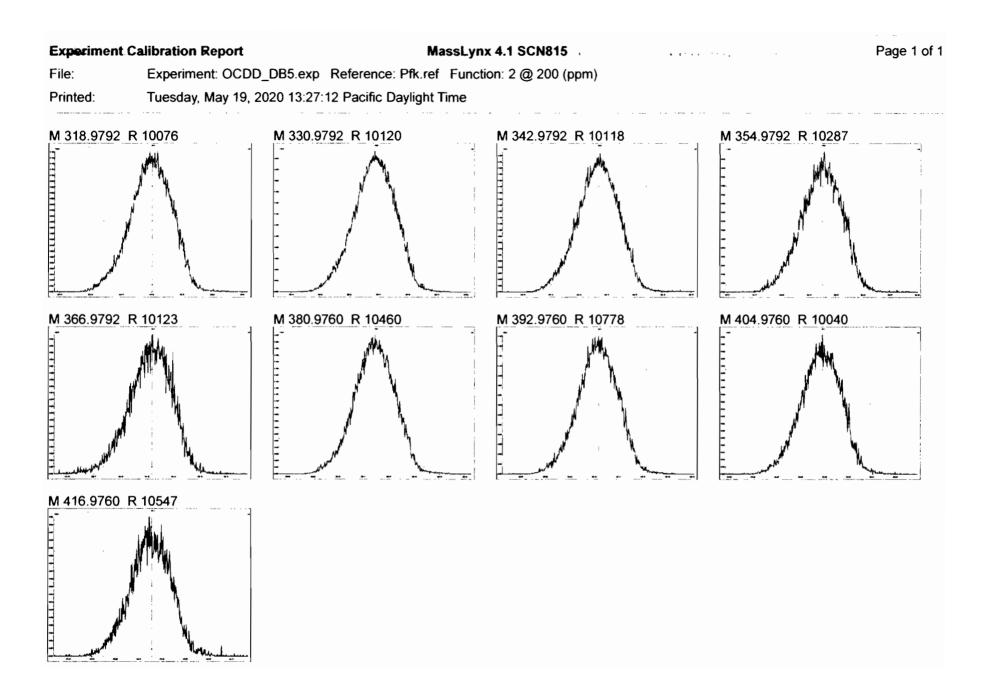


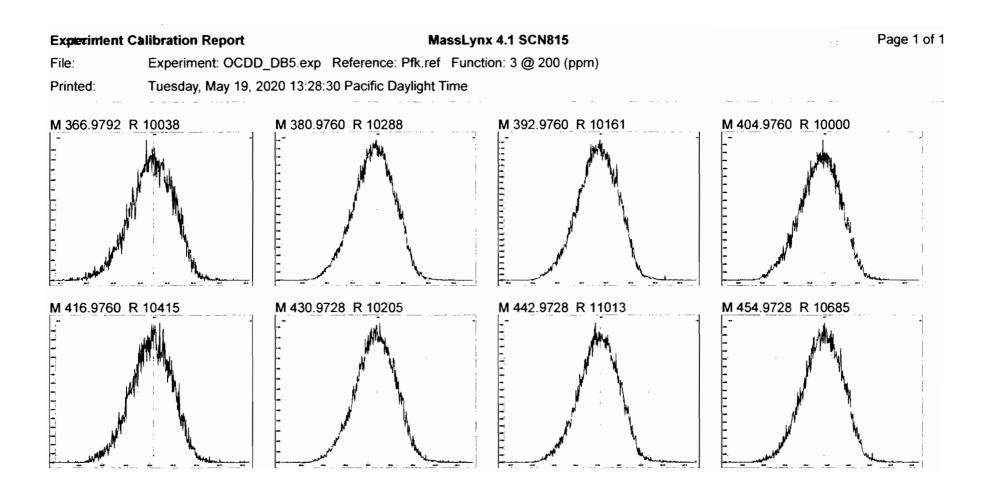
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	1 2,3,7.8-TCDC	1 26e5	1 45e6		077 NO				RT Fing	1 001	1 001	9 16	516	STD out NO							
	2 1,2,3,7,8-PeCDD	4 84e5	1 11e6			0 094		31 14	#0 #0	1 001	1 000	46.4	916	NO							
3	3 1.2.3.4.7.8-HxCDD	4 13e5	7.61e5	1 24 1	125 NO	0 1 06	0641 34 51	3452	NO	1 000	1 001	510	102	NO							
4	4 1.2.3.6.7,8-HxCDD	4 5e5	1 07e6	1 24 1	1.28 NO	0 0 91	9145 34 60	34 62	NC	1 000 1	1 001	46.7	53.4	NO							
	5 1 2.3,7 8.9-HxCDD	3 91e5	8 84e5	1 24 1		0 0 91			NO HO	1 000	1 200	483		8							
	6 1.2.3.4.6.7.8-HpCDC 7 OCDD	3 15e5 6.42e5	7 22e5	1 04 1		0 0 0 0 0 0 0 0 0 0 0			NO NO	1 000	1 200	49 1	98 3 100	NO							
_	7 OCDD 8 2,3,7,8-TCDF	6.4265	1 3866	0 259 0		0 0 93			NO	1 000	1 000	976	97.6	NO							
	9 1.2.3,7,8-PeCDF	7 10e5	1 5566	1 55 1		0 0 91		29 83	NO	1 001	1 001	491	98.2	w ₩							
10	8 2.3 4.7.8-PeCDF	7 16e5	15406	1 55	153 NO	0 0 96	9664 30.85	30 83	NO	1 001	1 000	48 0	961	NO							
	11 1.2.3.4.7.8-HxCDF	4 5285	10300	1 24 1		0 087		33.65	NO	1 000		541	108	NO							
	2 1,2.3,6,7,8-HxCDF	5 87e5	1 2466			0 0 87			HO	1 000	1 000	\$2.3	105	NO							
	3 2,3.4,6,7 8-HxCDF 4 1,2,3.7,8,9-HxCDF	5 28e5 4 19e5	1 08e6 9 10e5			0 92		34 35	NO	1 001	1 000	529 533	106	NO							
	5 1.2.3,4,6,7.8-HpCDF	3 96e5	8 45e5	1.04 1		0 087		36 96	NO	1 001		53.9	105	NO							
16	6 1,2.3,4,7.8.9 HpCDF	3 08e5	5 58e5	1.04 1		0 1.01		38 99	NO	1 000		54.6	109	HO							
			-	fili	S. Fakera	ROL				R. M			21. L.								
	8 13C-2.3,7,8-TCDD	1 4566	123e6	077 (1595 26 05		NO	1 026			101	NO							
	9 13C-1.2.3.7.8-PeCDD 9 13C-1.2.3.4 7.8-HuCDD	1 11e6 7 61e5	1 2366	0 63 0		0 0 84		31 12	NO	1 227	1 227	106 93.0	106 92.0	NO NO							
	1 13C-1.2,3,6,7.8-HxCDD					0 0.90		34.60	#0												
519R1 3 CS3 1		1 07e8	2305	124	M			56.318121	(1017	1.017	101	101	04	 			 	 	 	441
519R1 3 CS7	L_1			124	·····				(1.017	101	101	CM	 	•••			 	 	F≐ ≒okage SKR 6 441 7 ? 594e+0
519R1 3 CS3 1	L1 19L2305 ST200519R1_1 19L2305 ST200519R1_1	1613 053 191 2	2105						(<u>, , , , , , , , , , , , , , , , , , , </u>	101	101	0	 	••••••		 	 	 	 4413 2 SOde+0 F5 Voltage SIRJ
519R1 3 CS3 1	1_1 19L2305 ST200519R1_11	1613 053 191 2	2105	124			CCDF,41	56,318121	94,3664	1 8 58		101	101	01	 	antenny frants y	; .	 	 	 	 4413 2 504e+0 F5 \ollage SIRJ 4337
19R1	L1 19L2305 ST200519R1_1 19L2305 ST200519R1_1	1613 053 191 2	2105				CCDF,41	· · ·	94,3664	1 8 58		101	101	0	 	••••		 	 	 	 441 2 504e+1 F5\oliage SiR, 443
519R1 1 CS1 1 519R1 1 CS3 1	L1 19L2305 ST200519R1_1 19L2305 ST200519R1_1	1613 053 191 2	2105				CCDF,41	56,318121	94,3664	1 8 58	- 1.017 	101	101	0	 	••••		 	 	 	 441 ? 5946+ F 5 \oliage SiR 443
519R1 1 CS1 1 519R1 1 CS3 1	L1 19L2305 ST200519R1_1 19L2305 ST200519R1_1	1613 053 191 2	2105				CCDF,41	56,318121	94,3664	1 8 58		101	101		 	••••		 	 	 	 441 ? 5946+ F 5 \oliage SiR 443
19R1	L1 19L2305 ST200519R1_1 19L2305 ST200519R1_1	1613 053 191 2	2105	124			CCDF,41	56,318121	94,3664	1 8 58		101	101	<u>64</u>	 					 	4413 2 504e+0 F5 \ollage SIRJ 4337
519R1 3 CS3 1 519R1 3 CS3 1	1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1	1613 CS3 19L2	2305	124			CCDF,41	56,318121	94,3664	1 8 58		101	101		 			 		 	 441 ? 594+0 F5 Voltage SIR. 4 2026-0 F5 Voltage SIR
519R1 3 CS3 1 519R1 3 CS3 1 3 CS3 1 519R1 3 CS3 1	1 19L2305 ST200519R1_1 19L2305 ST200519R1_1 19L2305 ST200519R1_1	1613 CS3 19L2	2305				CCDF,41	56.318121	94,36644			101	101		 	·····		 	 	 	 441 7:594+-0 F5\ottage SIR. 437 4:2526-0 F5\ottage SIR 53\ottage SIR
19R1 1CS) 1 1CS) 1 1CS) 1 1CS) 1 1CS) 1 19R1 1CS) 1	1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1	1613 CS3 19L2	2305				OCDF.41	56.318121	94,36644			101	101		 			 	 	 	 441 7:594+-0 F5\ottage SIR. 437 4:2526-0 F5\ottage SIR 53\ottage SIR
519R1 3 CS3 1 519R1 3 CS3 1 519R1 519R1 519R1	1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1	1613 CS3 19L2	2305				OCDF.41	56.318121	94,36644			101	101		 			 	 	 	 441 2:534e+0 F5\oliage SIR, 443 4:2526-0 F5\oliage SIR 5:30tage SIR
519R1 3 CS3 1 519R1 3 CS3 1 519R1 519R1 519R1	1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1	1613 CS3 19L2	2305	124			OCDF.41	56.318121	94,36644			101	101		 					 	 441 ? 534+4 F 5 \offage SiR 443 4 2%26-1 F 5 \offage SiR 453 7
519R1 3 CS3 1 519R1 3 CS3 1 519R1 3 CS3 1	1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1	1613 CS3 19L2	2305	124	·····		OCDF.41	56,318121 56,362994	94.3664	1858 1771 29737		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	101	6	 						441 ? 534+4 F 5 \offage SiR 443 4 2%26-1 F 5 \offage SiR 453 7
519R1 3 CS3 1 519R1 3 CS3 1 519R1 3 CS3 1 3 CS3 1 519R1 3 CS3 1	1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1	1613 C.S3 19L2	2105				OCDF.41	56,318121 56,362994	94,36644	1858 1771 29737		101			 					 	441 ? 594e+0 F5 \ollage SiR. 443 4 2026+0 F5 \ollage SiR 453 71 8 577e+0 6 5 \ollage SiR
519R1 3 CS3 1 519R1 3 CS3 1 519R1 3 CS3 1 519R1 3 CS3 1 519R1 519R1	19L2305 ST200519R1_1 19L2305 ST200519R1_1 19L2305 ST200519R1_1 19L2305 ST200519R1_1	1613 C.S3 19L2	2105	124		1	0CDF 41	56.318121 56.362994	94,36644 50,42267 21,38,862	1 856 1771 29737		101									441 ? 534+0 F5\ottage SIR 431 42704-0 F5\ottage SIR 8577e+0 65\ottage SIR 8577e+0 65\ottage SIR 4537
519R1 3 CS3 519R1 3 CS3 519R1 3 CS3 519R1 3 CS3 519R1 519R1 519R1	1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1	1613 C.S3 19L2	2105	124		1	OCDF.41	56.318121 56.362994	94,36644 50,42267 21,38,862	1 856 1771 29737										 	441 ? 534+0 F5\ottage SIR 431 42704-0 F5\ottage SIR 8577e+0 65\ottage SIR 8577e+0 65\ottage SIR 4537
519R1 3 CS1 519R1 3 CS3 519R1 3 CS3 519R1 3 CS3	1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1	1613 C.S3 191 2 1613 C.S3 19L2 1613 C.S3 19L2	2105	124	·····	1	0CDF 41	56.318121 56.362994	94,36644 50,42267 21,38,862	1 856 1771 29737										 	441 ? 534+4 F5 \oliage SiR 433 4 2526+1 F5 \oliage SiR 8377 8 5776+4 (5 \oliage SiR 45776+1 (5 \oliage SiR 457
519R1 3 CS3 519R1 3 CS3 519R1 3 CS3 519R1 519R1 3 CS3	1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1 1912305 ST200519R1_1	1613 C.S3 191 2 1613 C.S3 19L2 1613 C.S3 19L2	2105			1	0CDF 41	56.318121 56.362994	94,36644 50,42267 21,38,862	1 856 1771 29737					 						441 ? ? 534e+0

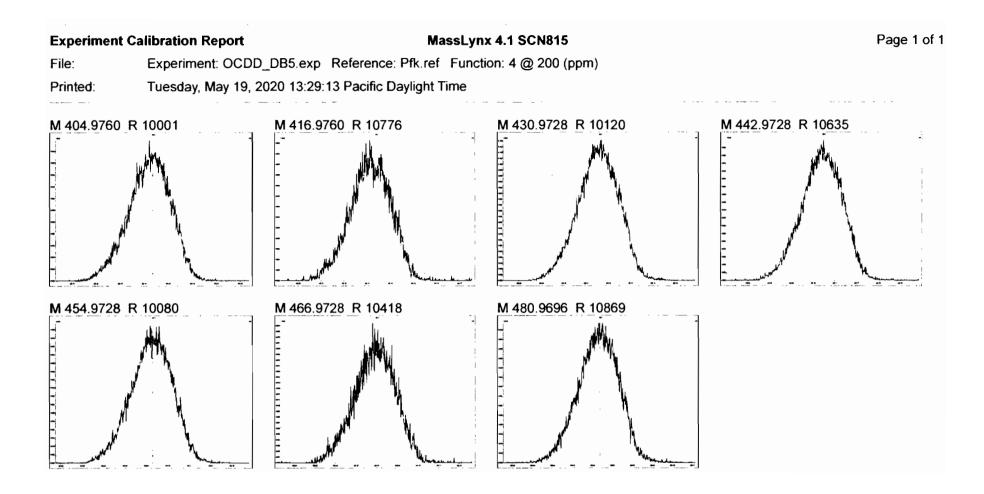
Quantify Sam Vista Analytica		ssLynx 4.1 SCN815	Page 13 of 13
Dataset:	Untitled		
Last Altered: Printed:	Tuesday, May 19, 20 Tuesday, May 19, 20	20 09:28:04 Pacific Daylight Time 20 09:28:51 Pacific Daylight Time	
	Tuesday, May 19, 20		

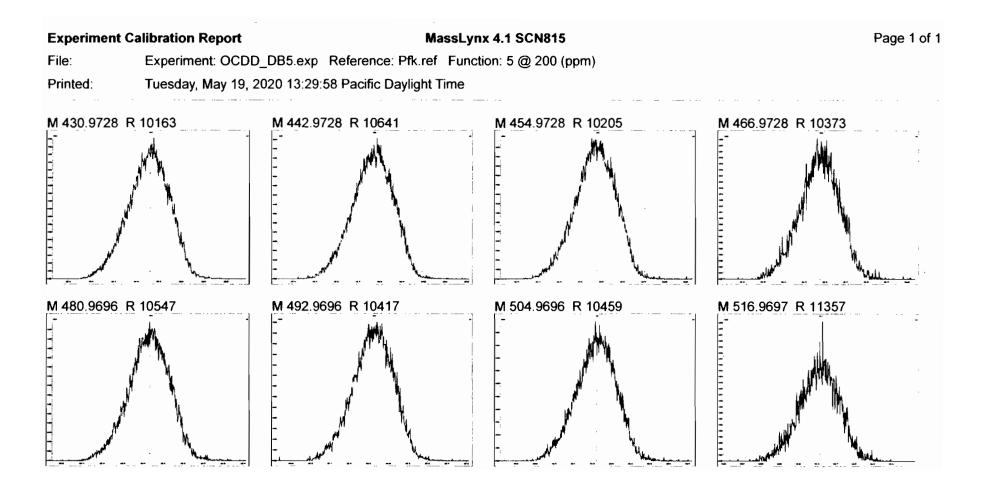
FK1 0519R1_1 00-1	20	05:2.1	5e4:3529	924	21.54;4.	24e3;133	497	22.16;1.1	4e4;13891	6 22.88	23.95;7.71e	3;169611 2	24.96;4.81e3	;119254 25.9	3;7.47e3;17	6603	26.65;1.38	e4;161517	F1:Volta	316.9
«					~~~~~			~~~~	- <u>Anni - Anna A</u>			~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						2.833ē+
	9.50	20	.00	20.50	21	1.00	21.50	22.00) 22.5	0 23.0	00 23.5	60 24.0	0 24.50	0 25.00	25.50	26.00	26.50	27.00	27.50	
K2)519R1_1 0⊣	29.0	8;6.25e	5;165147	7 29	.08;6.25	e5;16514	7 29.1	6 29.23	29.54	29.77	29.97 30	0.10 30.18	30.45	30.71 30	.87 31.05	31.26	31.51	31.72 31.	F2:Volta 8131.93	366.9
28.00	\square														· ·				2	2.980e
0 ⁻¹	28	9.25	28.50	- i -j-	28.75	29.0)	29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.0	0
K3 519R1_1 33.98;1	1.04e7	;34878	43			33.98;	.04e7;:	3487843		33.98;1	.04e7;3487	843 3	3.98;1.04 e 7	;3487843	33.98;1.	.04e7;3487	843		F3:Volta	ige SIF 380.1 1.183e
	32.40	32	.60 3	32.80	33.	00 33	3.20	33.40	33.60	33.80	34.00	34.20	34.40 3	4.60 34.8	0 35.00	35.20	35.40	35.60	35.80	36 .
K4 519R1_1					00.47.0	07-0-05				00.47.0.0			39.17;6.0	7e6;352938	20	47-0 07-0-	352938 39	45 20 40	F4:Volta	ige Sil 430.
					39.17;0	.07e6;35				39.17;6.0	7e6;352938					17;6.0766;	352938 39	.42.39.40	5	430. 8.523e
) 	. 20	36.40		50 50	36.80	37.00	37.:	20 37	.40 37.	60 37.8	30 38.00	38.20	38.40	38.60 3	8.80 39.0	0 39.2	0 39.40) 39.60	39.80	40.
K5)519R1_1 0-3 41.74	4;4.14	e6;2069	9469			41.74;	4.14e6;	2069469	4	2.26;1.05e	6;1837859	42.96;	1.04e6;1530	189	42.96;1.0	4e6;15301	89 44.20	44.5	F5:Volta	ige SIF 454.
j																			·	
40	.25	40.50	40.7	75	41.00	41.25	41.	50 41	.75 42.	00 42.2	25 42.50	42.75	43.00	43.25 4	3.50 43.7	75 44.0	0 44.25	5 44.50	44.75	45.











HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID: ST200607121-1		I	Reviewed By: <u>C7 X6/08/2020</u>	_	
End Calibration ID:	_				
	Beg.	End		Beg.	End
Ion abundance within QC limits?		ME	Mass resolution >	2	2
Concentrations within criteria?	\square	ф	□ 5k □ 6-8K □ 8K 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%		Φ	Intergrated peaks display correctly?	ŀ	NA I
First and last eluters present?	\square	中	GC Break <20%		
Retention Times within criteria?		Ф	8280 CS1 End Standard:		
Verification Std. named correctly?	Ţ	ф	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		NĄ
(ST-Year-Month-Day-VG iD)					
Forms signed and dated?	I	ф.	Comments:		
Correct ICAL referenced?	GRO				
<u>Run Log:</u>					
- Correct instrument listed?		V			
- Samples within 12 hour clock?	Ŵ	Ν			
- Bottle position verfied?	6	FB			

Quantify San	aple Summary Report MassLynx 4.1 SCN815
Vista Analytica	al Laboratory
Dataset:	U:\VG12.PRO\Results\200607R1\200607R1-1.qld
Last Altered:	Sunday, June 07, 2020 09:39:03 Pacific Daylight Time
Printed:	Sunday, June 07, 2020 09:39:27 Pacific Daylight Time

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

Name: 200607R1_1, Date: 07-Jun-2020, Time: 08:40:46, ID: ST200607R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

A			A Star Pro	di kana	i. Marina di Andreana	·····							_
1 2,3,7,8-TCDD	5.92e4	6.74e5	0.78	NO	0.888	26.47	26.45	NO	1.001	1.001	9.8933	98.9	N
2 1,2,3,7,8-PeCDD	1.96e5	4.64e5	0.59	NO	0.908	31.44	31.44	NO	1.001	1.000	46.546	93.1	N
3 1,2,3,4,7,8-HxCDD	1.3 9e5	2.84e5	1.23	NO	1.03	34.80	34.80	NO	1.000	1.000	47.415	94.8	N
4 1,2,3,6,7,8-HxCDD	1.87e5	4.36e5	1.15	NO	0.892	34.90	34.91	NO	1.000	1.000	48.082	96.2	N
5 1,2,3,7,8,9-HxCDD	1.35e5	3.22e5	1.23	NO	0.887	35.19	35.20	NO	1.000	1.001	47.141	94.3	N
6 1,2,3,4,6,7,8-HpCDD	9.94e4	2.31e5	1.01	NO	0.864	38.72	38.73	NO	1.000	1.001	49.864	99 .7	N
7 OCDD	2.03e5	4.41e5	0.87	NO	0.914	41.68	41.70	NO	1.000	1.000	100.98	101	N
8 2,3,7,8-TCDF	6.37e4	8.78e5	0.76	NO	0.751	25.57	25.56	NO	1.001	1.001	9.6613	96.6	N
9 1,2,3,7,8-PeCDF	3.10e5	7.10e5	1.58	NO	0.893	30.16	30.14	NO	1.001	1.000	48.851	97.7	N
10 2,3,4,7,8-PeCDF	2.98e5	6.84e5	1.54	NO	0.935	31.15	31.13	NO	1.001	1.000	46.637	93.3	N
11 1,2,3,4,7,8-HxCDF	1.69e5	3.80e5	1.22	NO	0.884	33.92	33.93	NO	1.000	1.000	50.293	101	N
12 1,2,3,6,7,8-HxCDF	2.33e5	4.96e5	1.22	NO	0.889	34.05	34.06	NO	1.000	1.001	52.949	106	N
13 2,3,4,6,7,8-HxCDF	1.93e5	4.13e5	1.22	NO	0.934	34.66	34.64	NO	1.001	1.001	50.070	100	N
14 1,2,3,7,8,9-HxCDF	1.33e5	3.11e5	1.22	NO	0.871	35.54	35.55	NO	1.000	1.000	49.319	98.6	N
15 1,2,3,4,6,7,8-HpCDF	1.27e5	2.89e5	1.01	NO	0.873	37.34	37.32	NO	1.001	1.000	50.417	101	N
16 1,2,3,4,7,8,9-HpCDF	9.69e4	1.91e5	0.99	NO	1.01	39.28	39.28	NO	1.000	1.000	50.167	100	N
17 OCDF	2.29e5	5.57e5	0.86	NO	0.806	41.88	41.90	NO	1.000	1.001	102.05	102	N
18 13C-2,3,7,8-TCDD	6.74e5	5.94e5	0.77	NO	1.16	26.46	26.44	NO	1.026	1.026	98.120	98.1	h
19 13C-1,2,3,7,8-PeCDD	4.64e5	5.94e5	0.61	NO	0.849	31.64	31.42	NO	1.227	1.219	92.056	92.1	N
20 13C-1,2,3,4,7,8-HxCDD	2.84e5	4.18e5	1.27	NO	0.779	34.80	34.79	NO	1.014	1.014	87.078	87.1	ħ
21 13C-1,2,3,6,7,8-HxCDD	4.36e5	4.18e5	1.24	NO	1.02	34.91	34.90	NO	1.017	1.017	102.40	102	N
22 13C-1,2,3,7,8,9-HxCDD	3.22e5	4.18e5	1.22	NO	0.903	35.18	35.18	NO	1.025	1.025	85.196	85.2	N
23 13C-1,2,3,4,6,7,8-HpCDD	2.31e5	4.18e5	1.02	NO	0.689	38.70	38.71	NO	1.128	1.128	80.060	80.1	N
24 13C-OCDD	4.41e5	4.18e5	0.92	NO	0.652	41.72	41.68	NO	1.216	1.215	161.62	80.8	N
25 13C-2,3,7,8-TCDF	8.78e5	8.66e5	0.77	NO	1.06	25.50	25.54	NO	0.989	0.991	95.788	95.8	N
26 13C-1,2,3,7,8-PeCDF	7.10e5	8.66e5	1.52	NO	0.838	30.02	30.14	NO	1.165	1.169	97.896	97.9	N
27 13C-2,3,4,7,8-PeCDF	6.84e5	8.66e5	1.54	NO	0.817	30.97	31.11	NO	1.202	1.207	96.778	96.8	N
28 13C-1,2,3,4,7,8-HxCDF	3.80e5	4.18e5	0.50	NO	1.01	33.93	33.92	NO	0.989	0.989	90.186	90.2	N
29 13C-1,2,3,6,7,8-HxCDF	4.96e5	4.18e5	0.51	NO	1.17	34.05	34.04	NO	0.992	0.992	101.52	102	N
30 13C-2,3,4,6,7,8-HxCDF	4.13e5	4.18e5	0.50	NO	1.02	34.63	34.62	NO	1.009	1.009	96.479	96.5	N
31 13C-1,2,3,7,8,9-HxCDF	3.11e5	4.18e5	0.50	NO	0.860	35.53	35.54	NO	1.035	1.036	86.347	86.3	N

Page 1 of 2

<u>GRB 06/07/2020</u> C7 06/02/2020

Quantify Sam Vista Analytica	ple Summary Report I Laboratory	MassLynx 4.1 SCN815
• • •		

Dataset: U:\VG12.PRO\Results\200607R1\200607R1-1.qld

Last Altered: Sunday, June 07, 2020 09:39:03 Pacific Daylight Time Sunday, June 07, 2020 09:39:27 Pacific Daylight Time

		en e		i ini. Sila lana									
32 13C-1,2,3,4,6,7,8-HpCDF	2.89e5	4.18e5	0.44	NO	0.774	37.27	37.31	NO	1.086	1.087	89.226	89.2	NO
33 13C-1,2,3,4,7,8,9-HpCDF	1.91e5	4.18e5	0.42	NO	0.521	39.30	39.28	NO	1.145	1.145	67.502	87.5	NO
34 13C-OCDF	5.57e5	4.18e5	0.87	NO	0.746	41.89	41.88	NO	1.221	1.220	178.58	89.3	NO
35 37CH-2,3,7,8-TCDD	6.10e4	5.94e5			1.04	26.49	26.45	NO	1.028	1.026	9.9164	99 .2	NO
36 13C-1,2,3,4-TCDD	5.94e5	5.94e5	0.80	NO	1.00	25.89	25.78	NO	1.000	1.000	100.00	100	NO
37 13C-1,2,3,4-TCDF	8.66e5	8.66e5	0.78	NO	1.00	24.36	24.09	NO	1.000	1.000	100.00	100	YES
38 13C-1,2,3,4,6,9-HxCDF	4.18e5	4.18e5	0.50	NO	1.00	34.42	34.31	NO	1.000	1.000	100.00	100	YES

Quantify Compound Summary ReportMassLynx 4.1 SCN815Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered:Monday, June 08, 2020 07:18:52 Pacific Daylight TimePrinted:Monday, June 08, 2020 07:19:25 Pacific Daylight Time

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

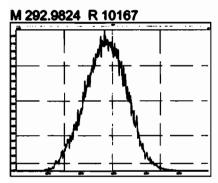
a state a state a			Section and
200607R1_1	ST200607R1_1 1613 CS3 19L2305	07-Jun-20	08:40:46
200607R1_2	SOLVENT BLANK	07-Jun-20	09:29:25
200607R1_3	2001005-01 PDI-164SC-A-00-01-200426 10.86	07-Jun-20	10:15:40
200607R1_4	B0E0107-DUP1 Duplicate 10.86	07-Jun-20	11:01:51
200607R1_5	2001005-02 PDI-164SC-A-01-02-200426 11.03	07-Jun-20	11:48:04
200607R1_6	2001005-03 PDI-164SC-A-02-03-200426 11.1	07-Jun-20	12:34:16
200607R1_7	2001005-04 PDI-164SC-A-03-04-200426 11.6	07-Jun-20	13:20:26
200607R1_8	2001005-05 PDI-164SC-A-04-05-200426 11.6	07-Jun-20	14:06:38
200607R1_9	2001005-06 PDI-164SC-A-05-06-200426 10.95	07 -Jun -20	14:52:50
200607R1_10	2001005-07 PDI-164SC-A-06-07-200426 11.24	07-Jun-20	15:39:00
200607R1_11	2001005-08 PDI-164SC-A-07-08-200426 13.9	07-Jun-20	16:25:14
200607R1_12	2001007-01 PDI-058SC-A-08-09-200505 16.85	07-Jun-20	17:11:26
200607R1_13	2001007-02 PDI-058SC-A-09-10-200505 16.58	07-Jun-20	17:57:37
200607R1_14	B0E0107-DUP2 Duplicate 16.48	07-Jun-20	18:43:49
200607R1_15	2001007-03 PDI-058SC-A-10-10.9-200505 16	. 07 -Jun-2 0	19:30:01
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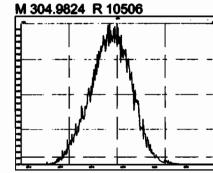
MassLynx 4.1 SCN815

Page 1 of 1

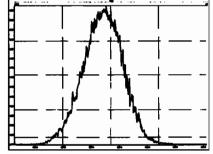
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Printed: Sunday, June 07, 2020 08:35:49 Pacific Daylight Time

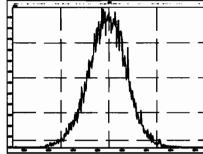


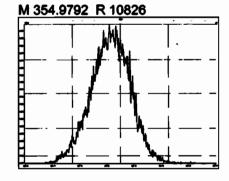


M 342.9792 R 10288

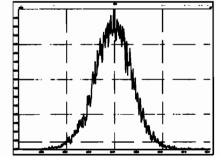


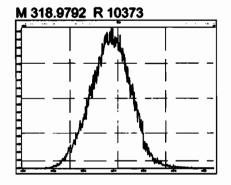
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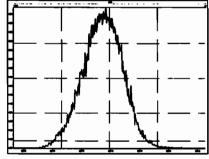




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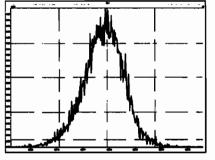


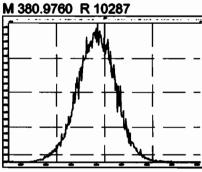




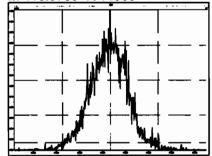
M 330.9792 R 10202

M 366.9792 R 11014









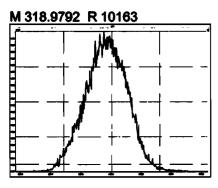
MassLynx 4.1 SCN815

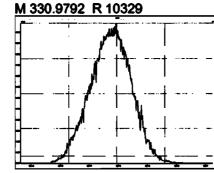
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Page 1 of 1

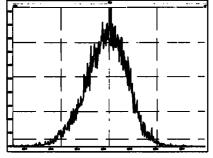
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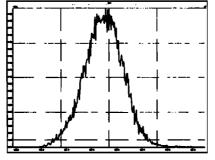




M 366.9792 R 10206



M 380.9760 R 10288

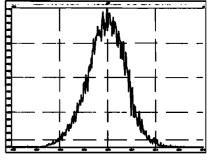


M 342.9792 R 10461

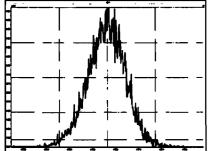
M 392.9760 R 10915

M 354.9792 R 10245

<u>M 404.9760 R 11058</u>



M 416.9760 R 11159

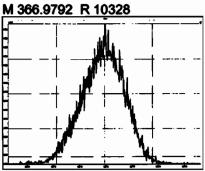


MassLynx 4.1 SCN815

Page 1 of 1

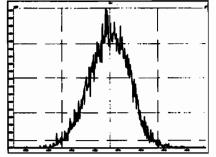
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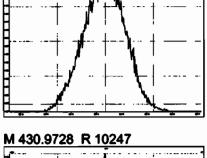
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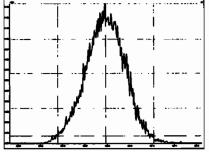


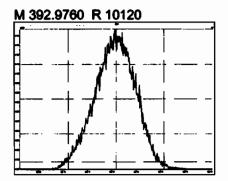


M 416.9760 R 10916

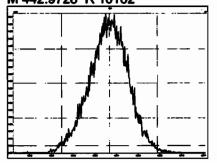


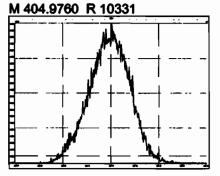




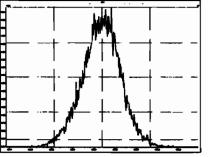








M 454.9728 R 10963

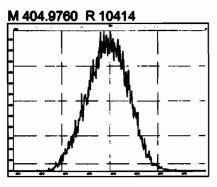


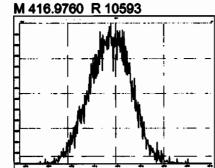
MassLynx 4.1 SCN815

Page 1 of 1

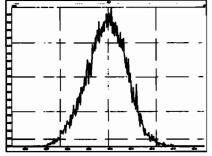
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Printed: Sunday, June 07, 2020 08:38:19 Pacific Daylight Time

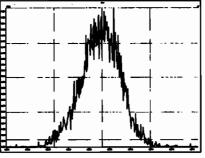


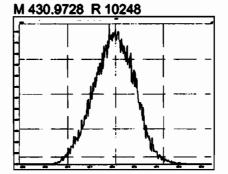


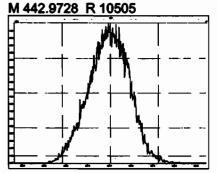
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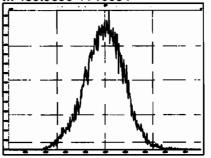
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M 480.9696 R 10684

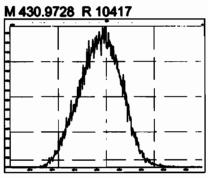


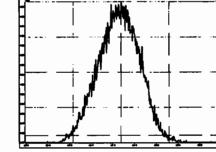
MassLynx 4.1 SCN815

Page 1 of 1

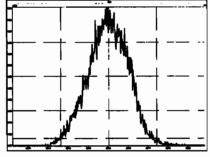
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M 442.9728 R 10245

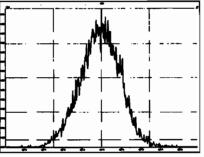


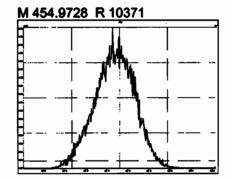


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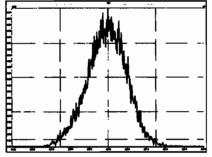


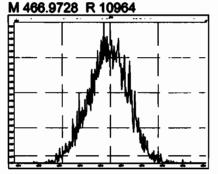




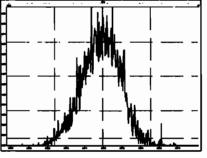












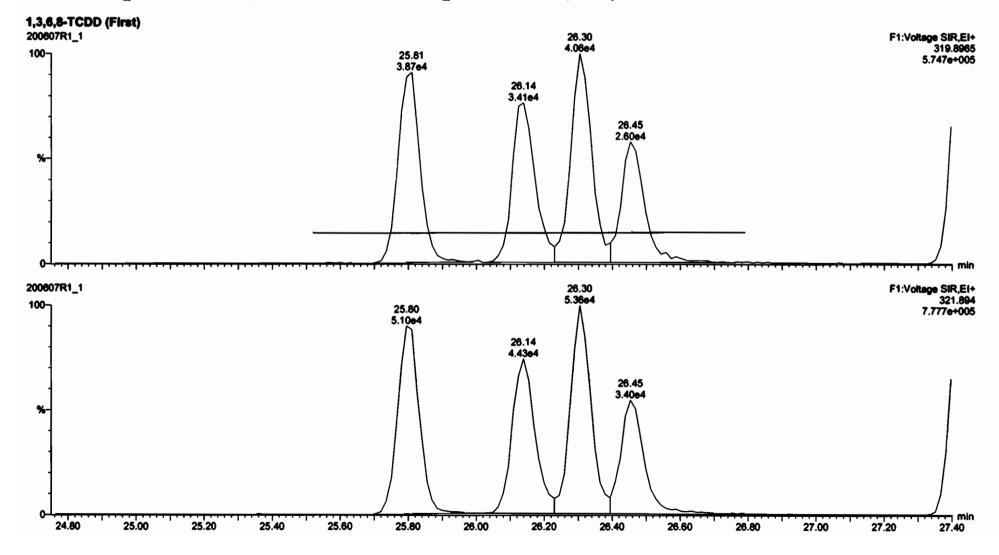
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Dataset:	Untitled		
Last Altered: Printed:		27:58 Pacific Daylight Time 28:17 Pacific Daylight Time	

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1 1,3,6,8-TCDD (First)	22.41
2 1,2,8,9-TCDD (Last)	27.43
3 1,2,4,7,9-PeCDD (First)	29.21
4 1,2,3,8,9-PeCDD (Last)	31.82
5 1,2,4,6,7,9-HxCDD (First)	33.30
6 1,2,3,7,8,9-HxCDD (Last)	35.20
7 1,2,3,4,6,7,9-HpCDD (First)	37.71
8 1,2,3,4,6,7,8-HpCDD (Last)	38.73
9 1,3,6,8-TCDF (First)	20.27
10 1,2,8,9-TCDF (Last)	27.58
11 1,3,4,6,8-PeCDF (First)	27.53
12 1,2,3,8,9-PeCDF (Last)	32.06
13 1,2,3,4,6,8-HxCDF (First)	32.75
14 1,2,3,7,8,9-HxCDF (Last)	35.55
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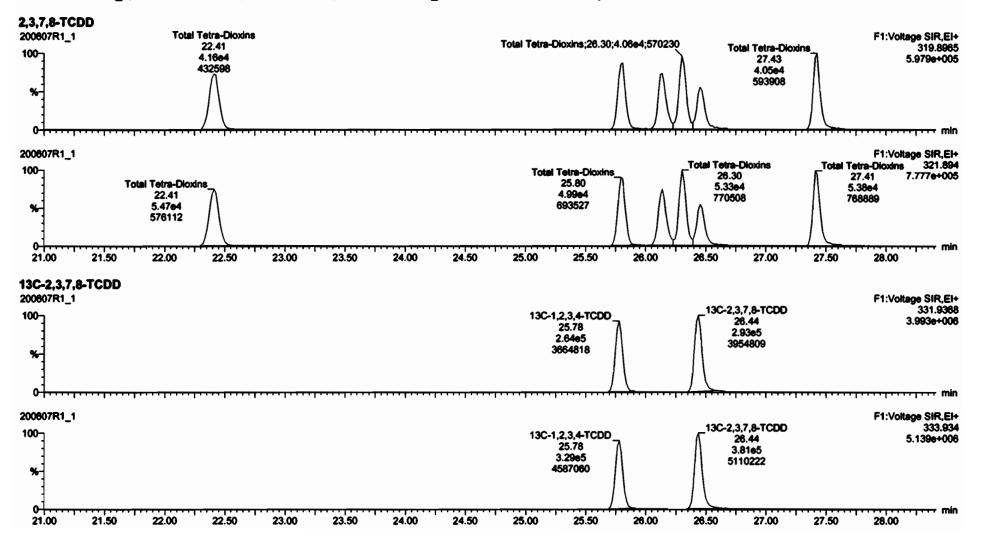
Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory VG-11 Page 1 of 1 Dataset: Untitled Last Altered: Sunday, June 07, 2020 09:27:58 Pacific Daylight Time Printed: Sunday, June 07, 2020 09:28:17 Pacific Daylight Time

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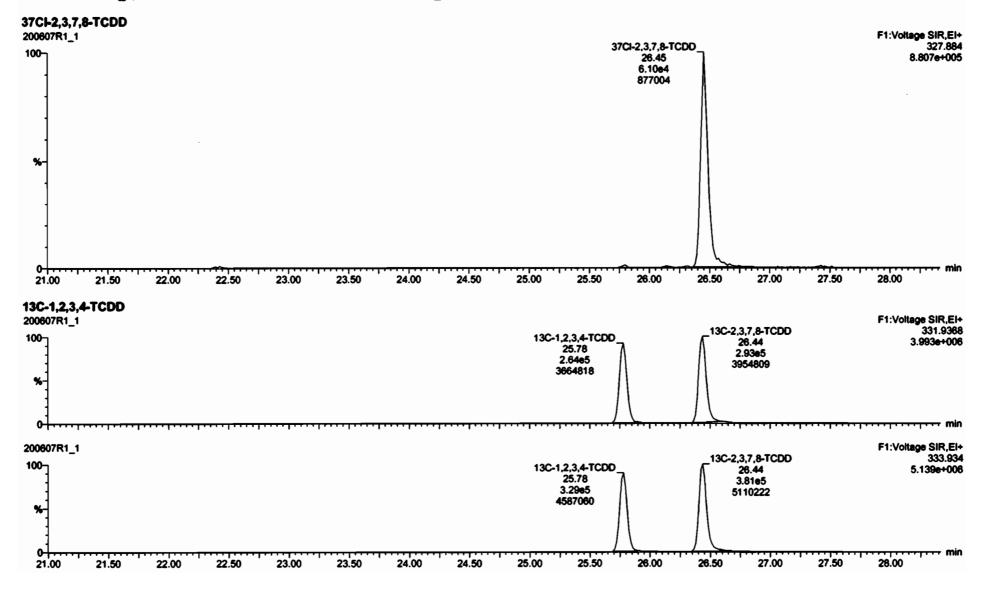


Quantify San Vista Analytica	• • •	Page 1 of 13
Dataset:	Untitled	
Last Altered: Printed:	Sunday, June 07, 2020 09:30:42 Pacific Daylight Time Sunday, June 07, 2020 09:30:46 Pacific Daylight Time	

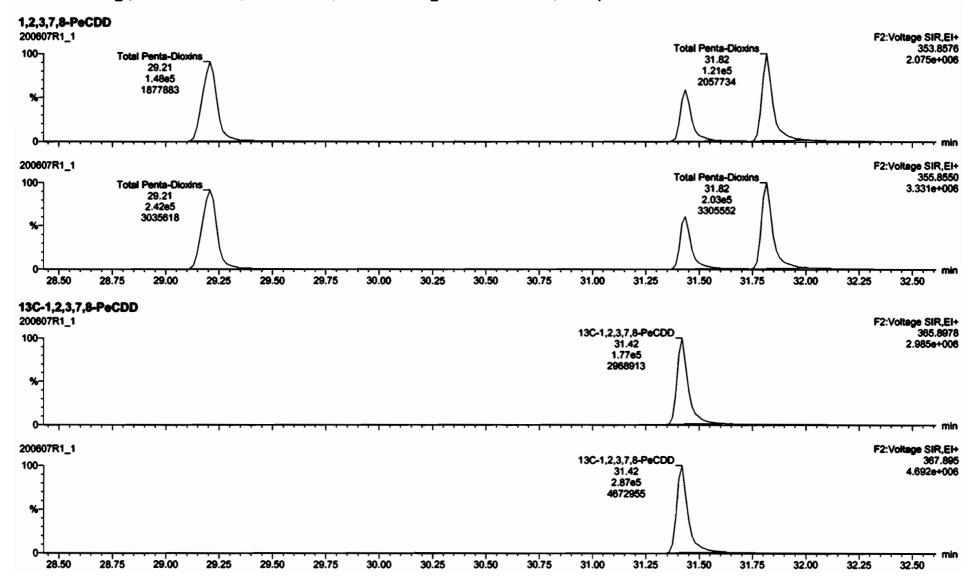
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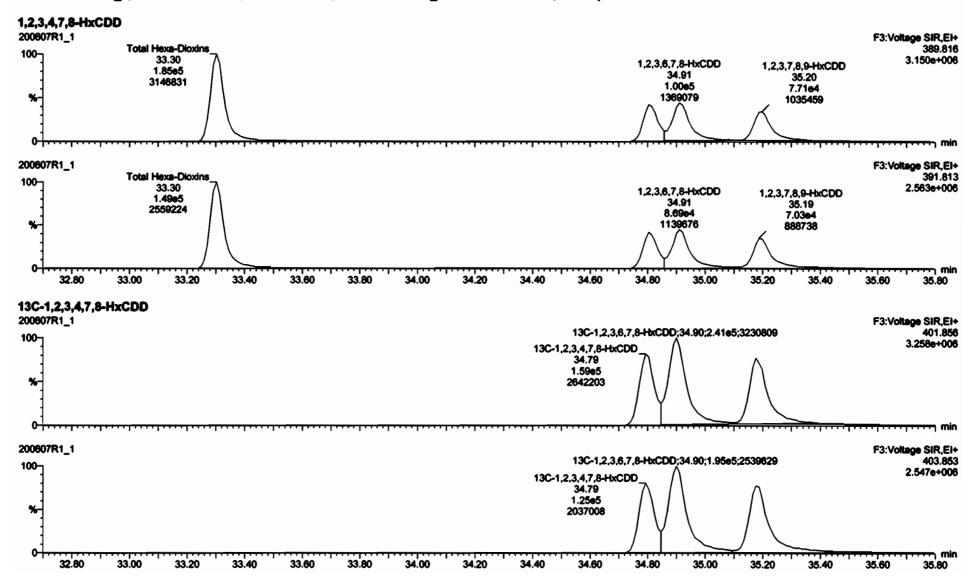
Quantify San Vista Analytica		Page 2 of 13
Dataset:	Untitled	
Last Altered: Printed:	Sunday, June 07, 2020 09:30:42 Pacific Daylight Time Sunday, June 07, 2020 09:30:46 Pacific Daylight Time	



Quantify San Vista Analytica		Page 3 of 13
Dataset:	Untitled	
Last Altered: Printed:	Sunday, June 07, 2020 09:30:42 Pacific Daylight Time Sunday, June 07, 2020 09:30:46 Pacific Daylight Time	

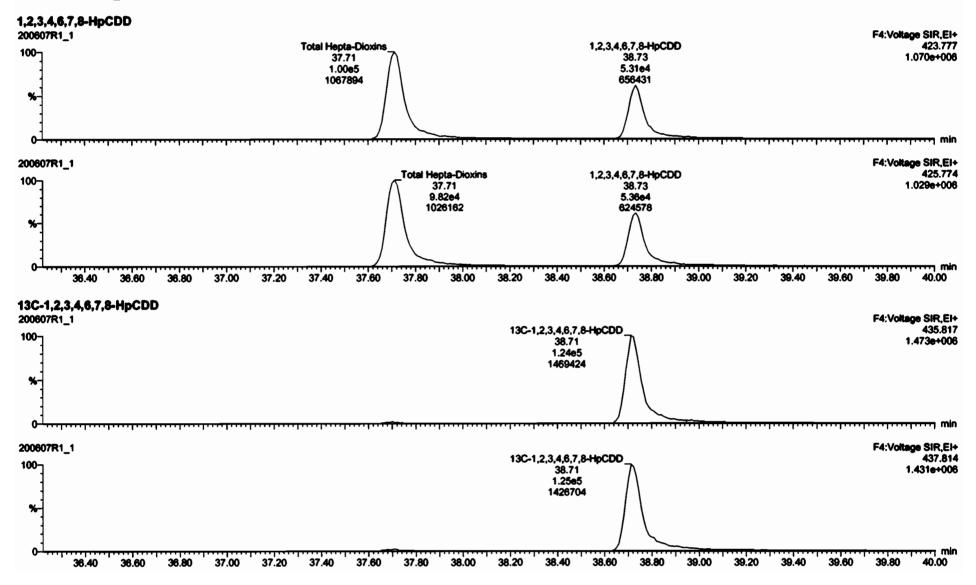


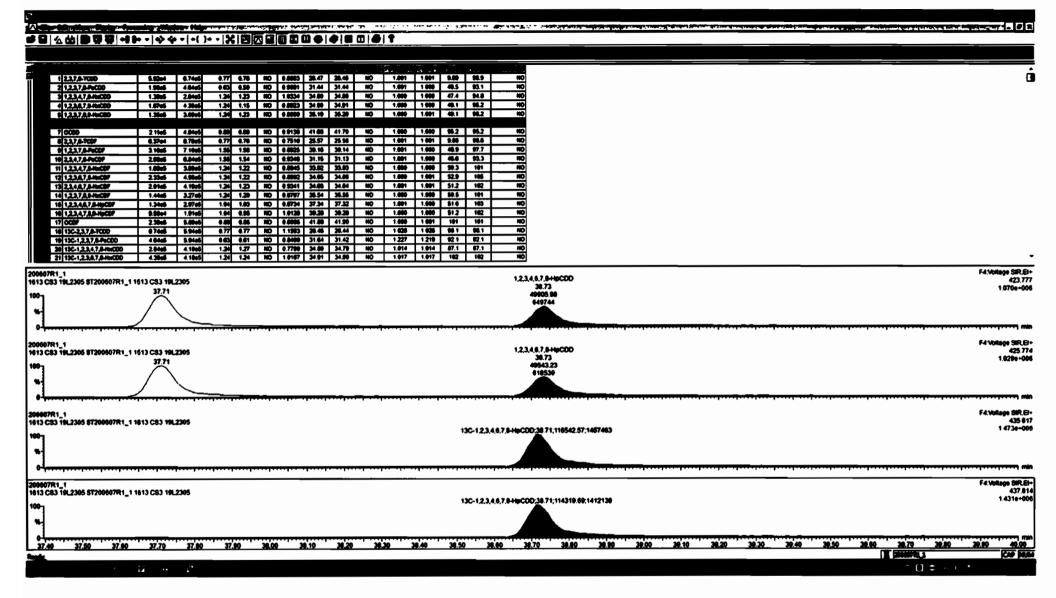
Quantify San Vista Analytica		Page 4 of 13
Dataset:	Untitled	
Last Altered: Printed:	Sunday, June 07, 2020 09:30:42 Pacific Daylight Time Sunday, June 07, 2020 09:30:46 Pacific Daylight Time	



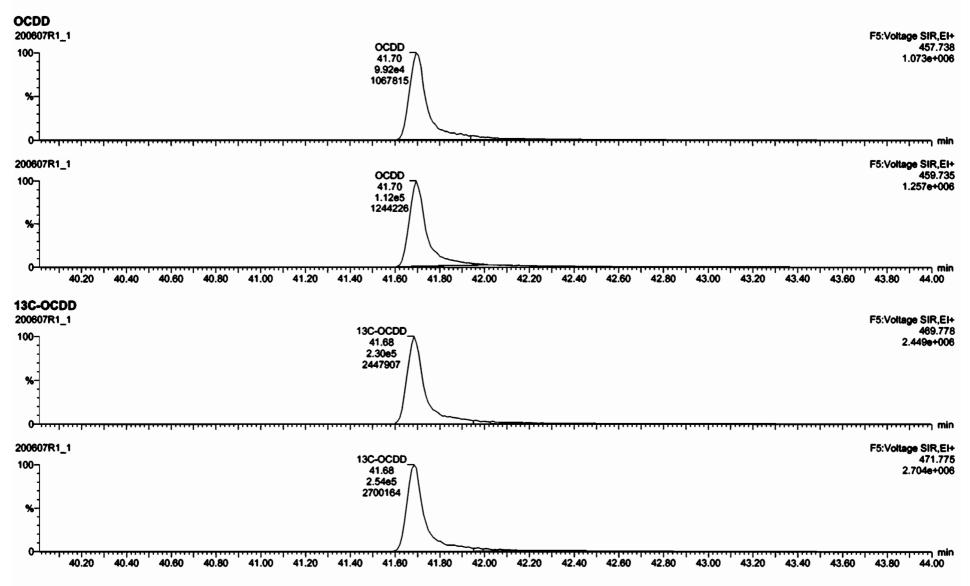
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Quantify Sam Vista Analytica		Page 5 of 13
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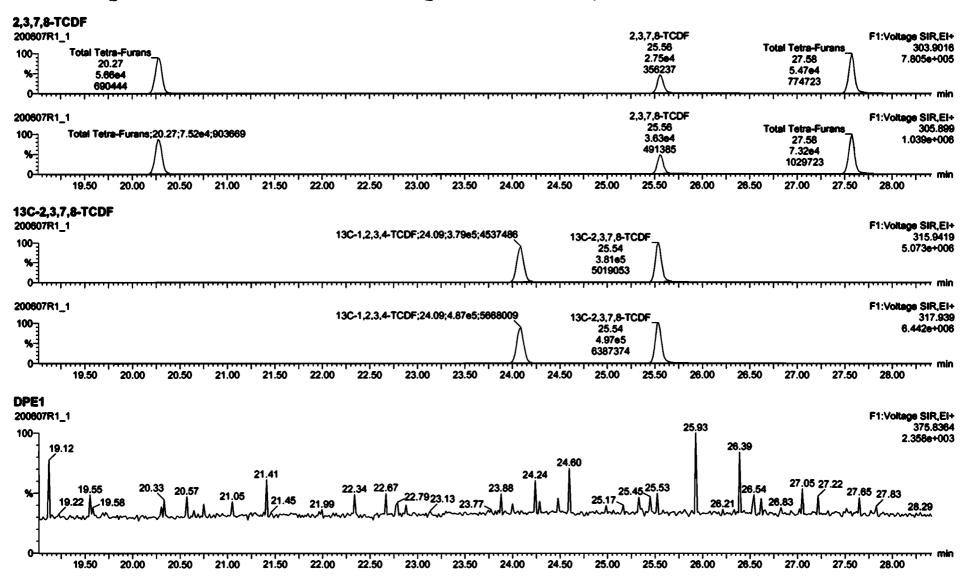
Quantify Sam Vista Analytica		Page 6 of 13
Dataset:	Untitled	
Last Altered: Printed:	Sunday, June 07, 2020 09:30:42 Pacific Daylight Time Sunday, June 07, 2020 09:30:46 Pacific Daylight Time	



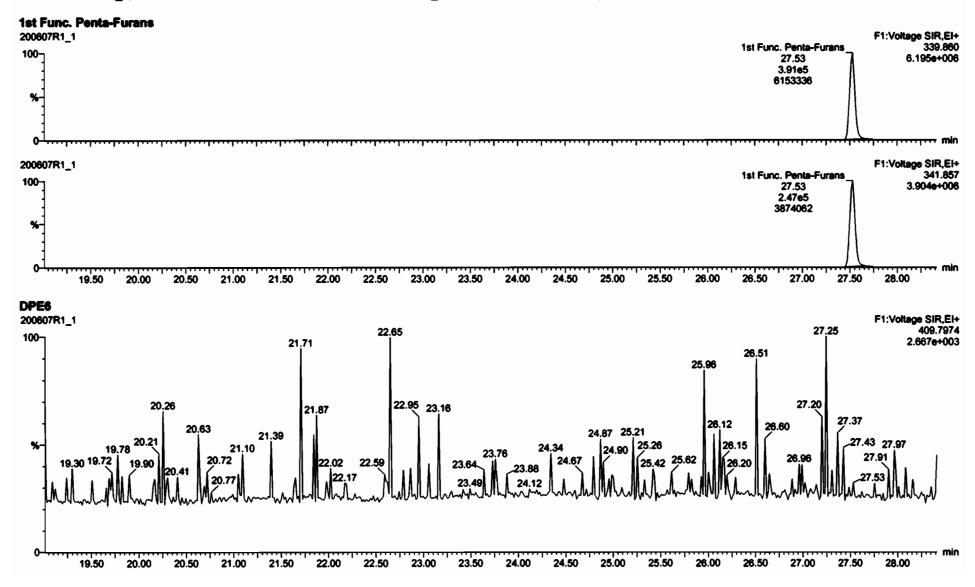
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3 1,2,3,4,7,8-46(00)	1,3045 2,8445 1,24 1,25 110 1,0554 34,89 34,30 110 1,000 1,000 47,4 94,8 110 100 47,4 94,8 110 1,000 48,1 95,2 110 1,15 110 0,0123 24,99 34,91 140 1,000 48,1 95,2 110	
4 1,2,3,6,7,8-HirC00 \$ 1,2,3,7,8-HirC00	1.8745 4.3845 1.24 1.15 NO 9.8823 34.99 34.91 NO 1.889 1.980 48.1 95.2 NO 1.169 1.991 49.1 95.2 NO 1.3845 3.9945 1.24 1.23 NO 9.8899 35.19 35.29 NO 1.999 1.991 49.1 95.2 NO	
6 1.2.3.4.6.7.8-HeCOD	8.0000 2.3165 1.40 1.01 1.0 6.0559 38.72 38.73 HO 1.000 1.001 40.9 98.7 HO	
8 2,3,7,8-100F 9 1,2,3,7,8-100F	6,3746 6,7745 9.77 9.76 110 9.7519 23,57 25.56 110 1.001 1.001 9.86 98.8 110 3.1445 7,1445 1.56 140 9.8253 39,16 39,14 140 1.001 1.009 44.9 97.7 140	
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11 1,2,3,4,7,8-16-007	1.00x6 3.00x5 1.2x 1.22 100 0.00x6 33.32 33.13 100 1.000 1.000 90.3 101 100	
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21 13C-1,2,3,8,7,8-16(000	4.3845 4.8845 1.24 1.24 HD 1.8467 34.91 34.90 HO 1.917 1.917 192 192 HO	•
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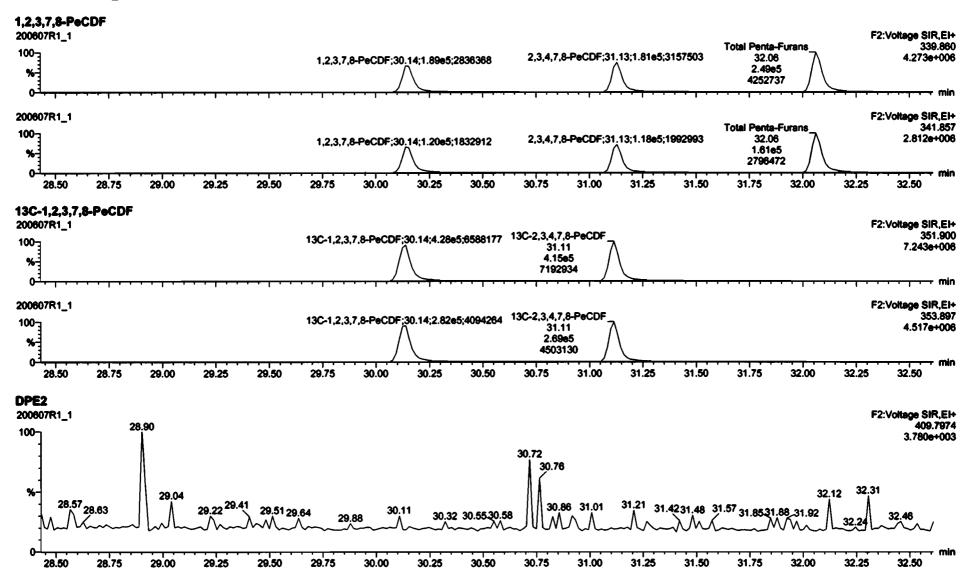
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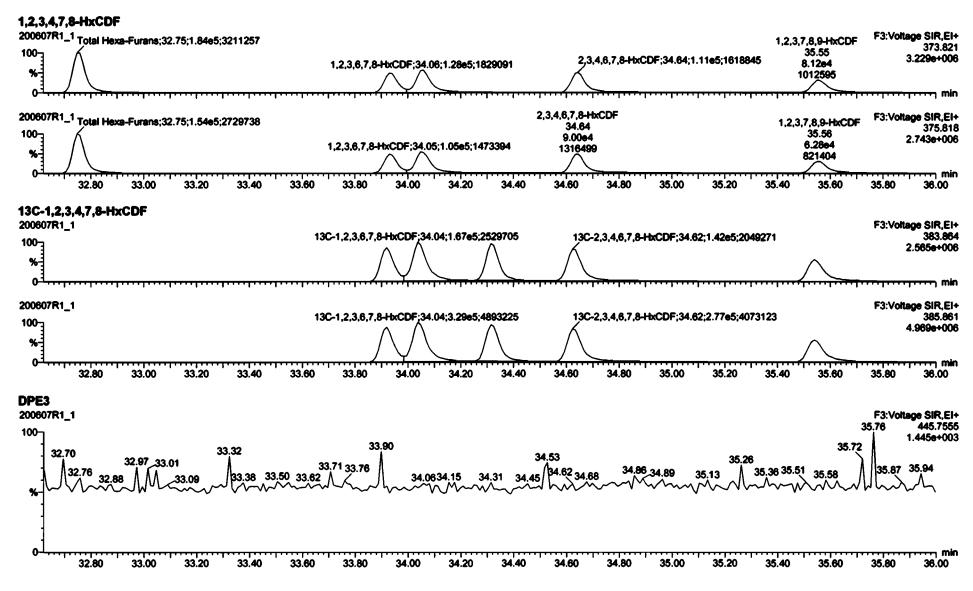
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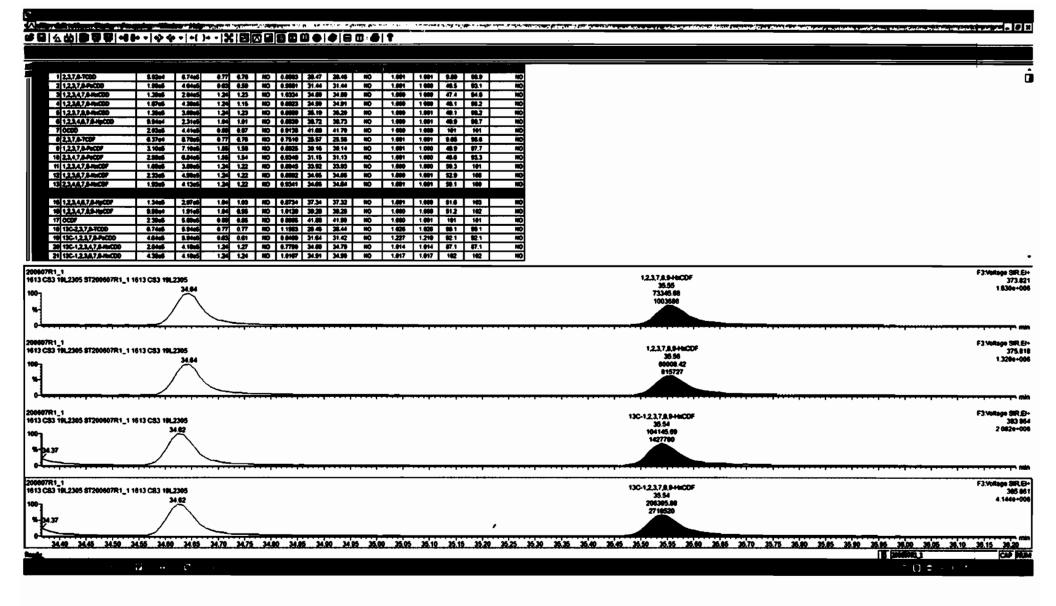
Quantify San Vista Analytica		Page 9 of 13
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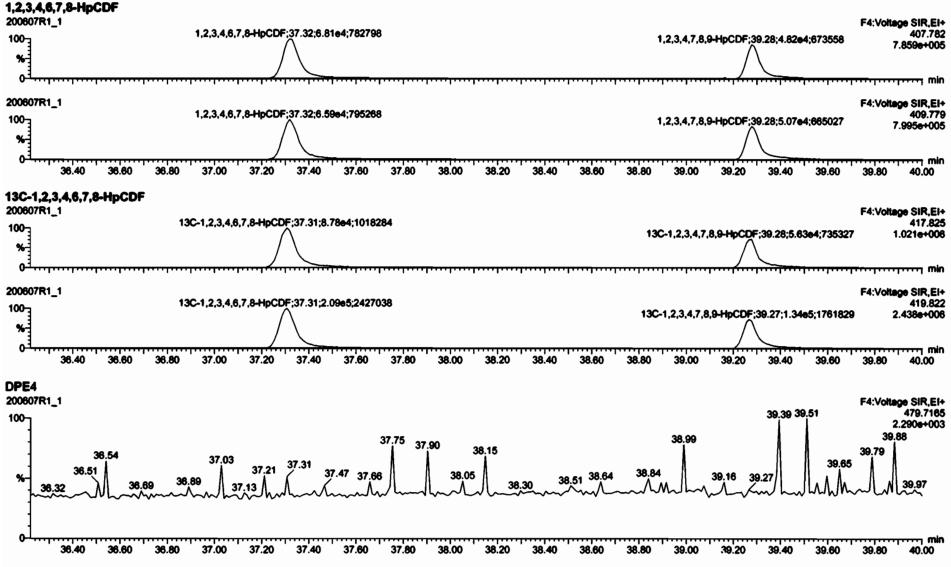
Quantify Sam Vista Analytica		Page 10 of 13
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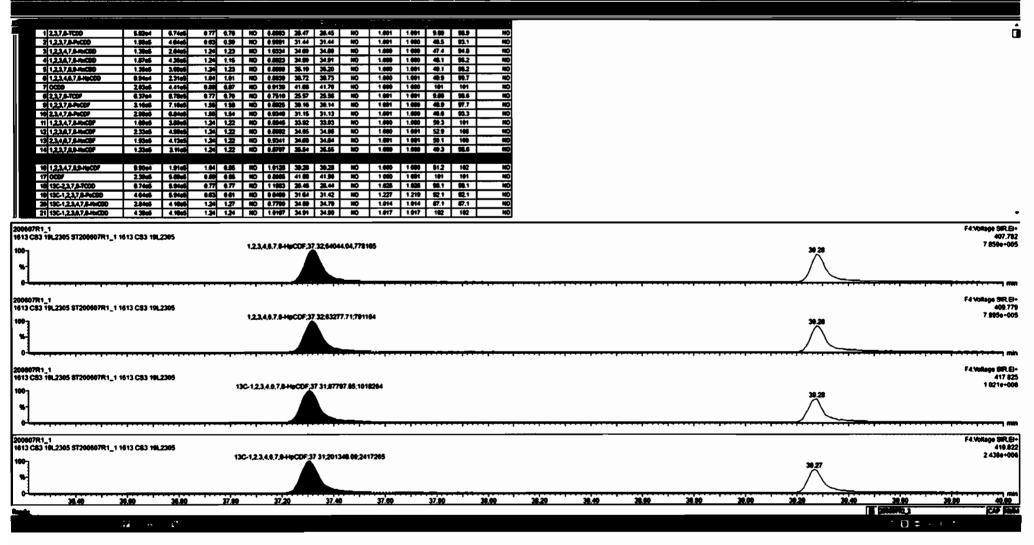


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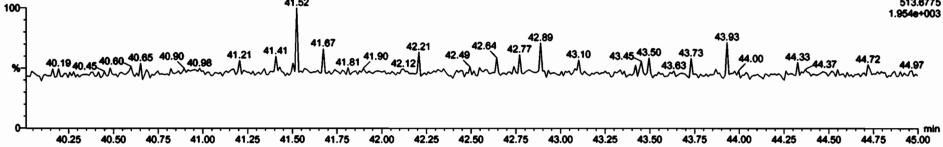
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and the second وتسيبة ويحتج فالمتحد فالمرتب ويستبع فالمترا لأحمد ومحرجة والمعادي ويستبعه والم

000 0005F;41.90;1.10e5;1232401 1.235e 100 1.235e 1.23e5;1415078 F5:Voltage Sil 000 0005F;41.80;1.29e5;1415078 44.75 45.75 000 40.25 40.50 40.75 41.50 41.75 42.00 13C-OCDF; 00007R1_1 13C-OCDF;41.88;2.81e5;2998410 F5:Voltage Sil 45.300 43.75 44.00 44.25 44.50 44.75 45.300 100 13C-OCDF;41.88;2.81e5;2998410 F5:Voltage Sil F5:Voltage Sil 3.002e 3.002e 3.002e 3.002e 3.377e 45.30e 45.30e 3.377e 45.30e 3.377e 45.30e 3.377e 45.30e 45.30e 3.377e 45.30e 45.30e 3.377e 45.30e 45.30e 3.377e 45.30e	Quantify Sam /ista An <mark>a</mark> lytica		Page 12 of
Vrinted: Sunday, June 07, 2020 09:30:46 Pacific Daylight Time Iame: 200607R1_1, Date: 07-Jun-2020, Time: 08:40:44, ID: ST200607R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305 XCDF CODF:41.80:1:10e5;1232401 F5:Voitage Si 000007R1_1 OCDF:41.80:1:29e5;1415078 F5:Voitage Si 000007R1_1 13C-OCDF:41.80:2:0162;298410 43.25 43.50 43.75 44.00 44.25 44.50 000007R1_1 13C-OCDF:41.80:3:08e5;3308897 F5:Voitage Si 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028 53.0028)ataset:	Untitled	
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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 IC-OCDF 13C-OCDF;41:88;2.81e5;2998410 60607R1_1 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 13C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.08e5;3366897 14C-OCDF;41:88;3.	0607R1_1	OCDF;41.89;1.29e5;1415078	F5:Voltage SIR,E 443.7 1.420e+0
N0607R1_1 F5:Voltage SII 00 13C-OCDF;41.88;2.81e5;2998410 0 3.002e 0		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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PE5	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

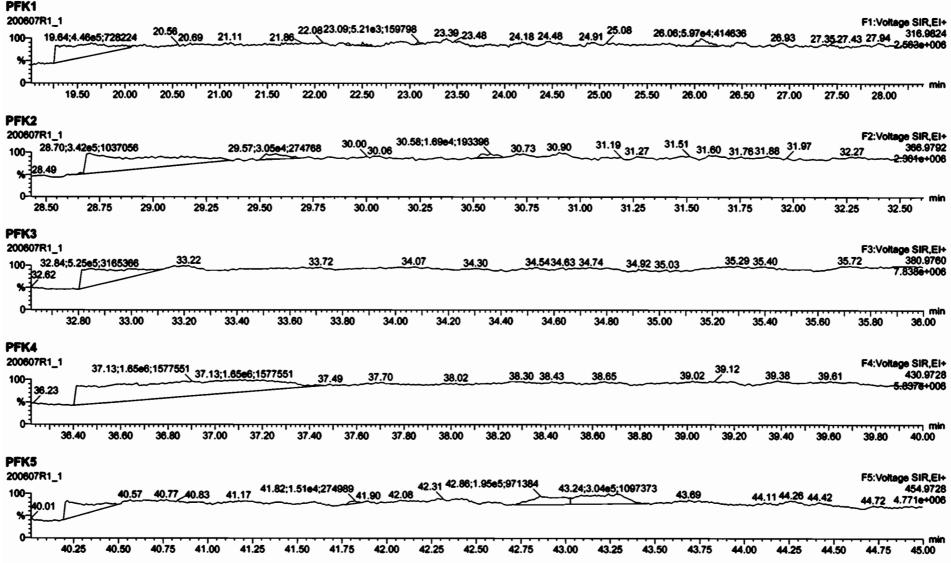
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41,52

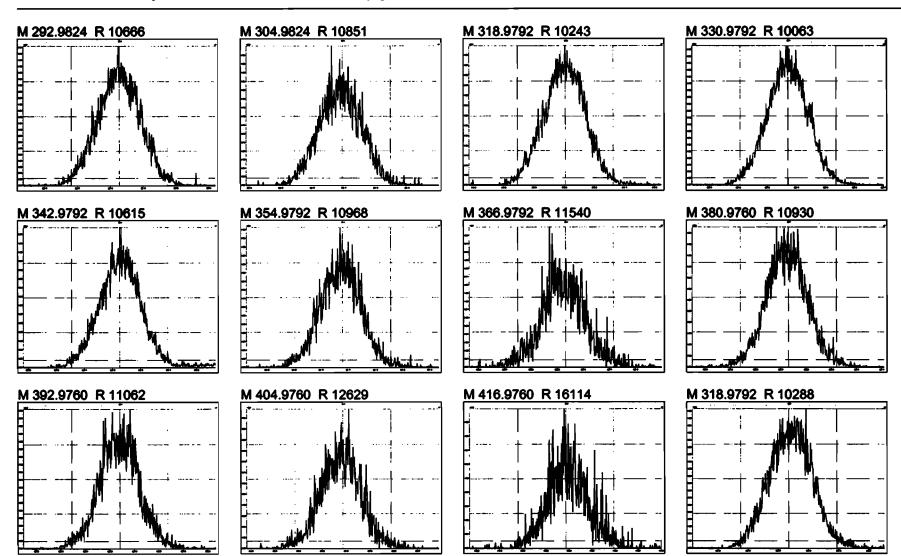
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	7 0000	2.6366	4.4165				38 41.60		10	1 000			101	10													
	8 2.3.7.8-7007	6.3764	6.7845				10 25.57		NO 1	1 001			98.6	NO													
	9 1.2.3.7.8-Peccer	3.1646	7.1046				25 39.16		NO	1.001	1 080		97.7	NO													
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	18 1,2,3,4,8,7,8-10007	1.2708	2.00+6				34 37.34		NO	1.001			101	NO													
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Quantify Sam Vista Analytica		Page 13 of 13
Dataset:	Untitled	
Last Altered: Printed:	Sunday, June 07, 2020 09:30:42 Pacific Daylight Time Sunday, June 07, 2020 09:30:46 Pacific Daylight Time	
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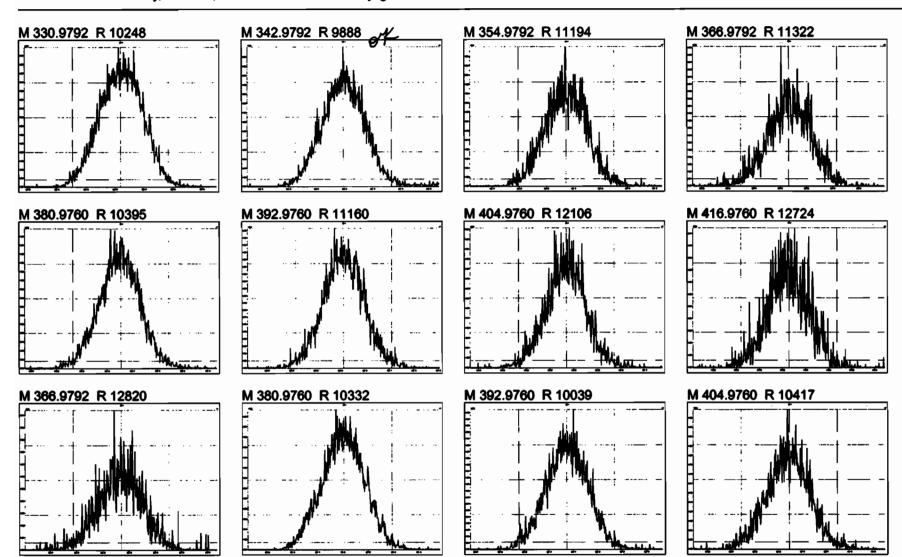


MassLynx 4.1 SCN815

Page 1 of 4

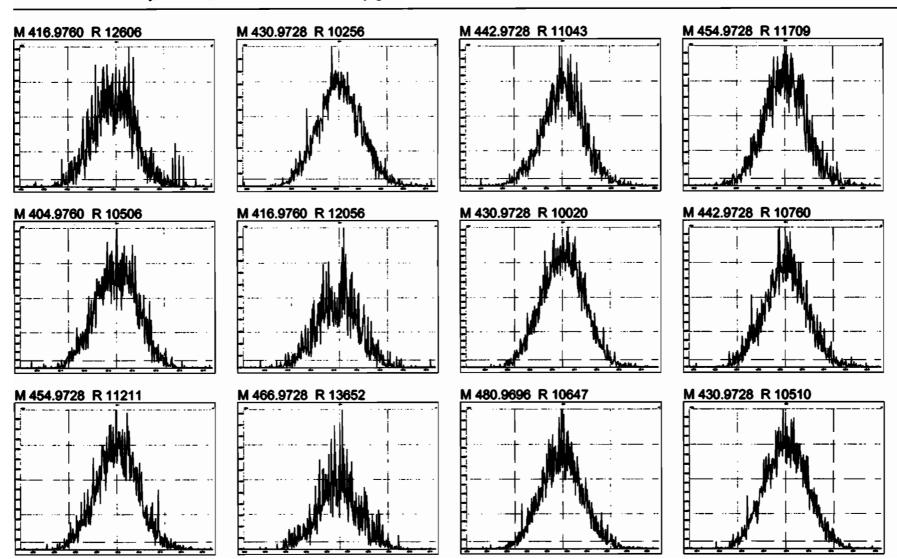


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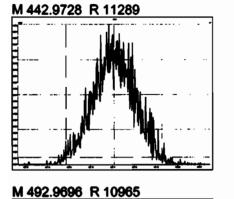


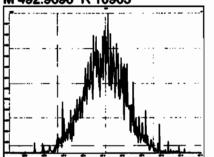
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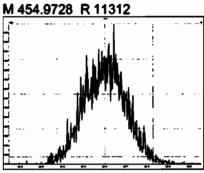
Page 3 of 4

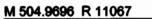


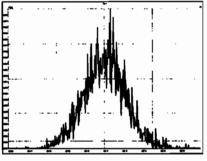
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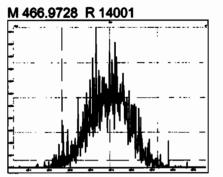


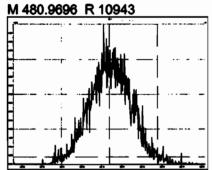


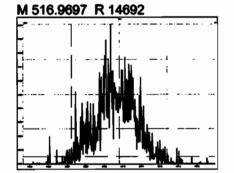












INITIAL CALIBRATION

Quantify Compound Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

Dataset:	U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld
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Last Altered:	Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
Printed:	Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Compound name: 2,3,7,8-TCDD Response Factor: 0.947465 RRF SD: 0.050672, Relative SD: 5.34817 Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area) Curve type: RF

T BAL	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	0.250	0.81	NO	26.07	1.002	3.67e3	1.71e6	0.227	-9.3	0.859	MM
2	200429R2_2	0.500	0.73	NO	26.05	1.001	6.88e3	1.49e6	0.486	-2.8	0.921	MM
3	200429R2_3	2.00	0.80	NO	26.05	1.001	2.77e4	1.43e6	2.04	2.1	0.968	ММ
4	200429R2_4	10.0	0.76	NO	26.07	1.001	1.43e5	1.49e6	10.1	0.8	0.955	db
5	200429R2_5	40.0	0.79	NO	26.07	1.001	6.85e5	1.74e6	41.5	3.8	0.983	bb
6	200429R2_6	300	0.78	NO	26.05	1.001	6.08e6	2.03e6	316	5.4	0.998	bb

Compound name: 1,2,3,7,8-PeCDD Response Factor: 0.942465 RRF SD: 0.0519271, Relative SD: 5.50971 Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area) Curve type: RF

ip	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	0.59	NO	31.13	1.000	1.26e4	1.18e6	1.13	-9.9	0.849	MM
2	200429R2_2	2.50	0.61	NO	31.14	1.000	2.41e4	1.02e6	2.49	-0.4	0.939	bb
3	200429R2_3	10.0	0.62	NO	31.13	1.000	9.99e4	9.92e5	10.7	6.8	1.01	bb
4	200429R2_4	50.0	0.62	NO	31.13	1.000	5.37e5	1.14e6	49.9	-0.2	0.941	bb
5	200429R2_5	200	0.63	NO	31.14	1.000	2.46e6	1.29e6	202	1.0	0.952	bb
6	200429R2_6	1500	0.63	NO	31.13	1.000	2.34e7	1.61e6	1540	2.6	0.967	bb

GRB 04/30/2020 C7 04/30/2020

Page 1 of 16

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 1,2,3,4,7,8-HxCDD Response Factor: 1.06409 RRF SD: 0.0704393, Relative SD: 6.61967 Response type: Internal Std (Ref 20), 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	200429R2_1	1.25	1.23	NO	34.49	1.000	1.06e4	9.05e5	1.10	-12.2	0.934	bd
2	200429R2_2	2.50	1.24	NO	34.51	1.000	2.05e4	7.45e5	2.58	3.2	1.10	bd
3	200429R2_3	10.0	1.25	NO	34.49	1.000	8.24e4	7.52e5	10.3	3.1	1.10	bd
4	200429R2_4	50.0	1.22	NO	34.51	1.000	4.42e5	8.49e5	48.9	-2.2	1.04	MM
5	200429R2_5	200	1.23	NO	34.51	1.000	2.14e6	9.92e5	203	1.5	1.08	bd
6	200429R2_6	1500	1.23	NO	34.49	1.000	2.19e7	1.29e6	1600	6.6	1.13	bd

Compound name: 1,2,3,6,7,8-HxCDD Response Factor: 0.914514 RRF SD: 0.0597197, Relative SD: 6.53021 Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area) Curve type: RF

102311	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.18	NO	34.60	1.000	1.19e4	1.16e6	1.12	-10.3	0.820	db
2	200429R2_2	2.50	1.19	NO	34.60	1.000	2.18e4	9.85e5	2.42	-3.1	0.886	db
3	200429R2_3	10.0	1.26	NO	34.60	1.000	9.42e4	9.49e5	10.8	8.4	0.992	db
4	200429R2_4	50.0	1.20	NO	34.60	1.000	4.89e5	1.08e6	49.6	-0.9	0.906	MM
5	200429R2_5	200	1.23	NO	34.61	1.000	2.38e6	1.24e6	210	5.0	0.960	db
6	200429R2_6	1500	1.24	NO	34.60	1.001	2.35e7	1.70e6	1510	0.9	0.922	db

Compound name: 1,2,3,7,8,9-HxCDD Response Factor: 0.914931 RRF SD: 0.0698725, Relative SD: 7.63691 Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area) Curve type: RF

E-canny-	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.17	NO	34.87	1.000	9.95e3	1.02e6	1.07	-14.6	0.782	MM
2	200429R2_2	2.50	1.21	NO	34.88	1.000	1.98e4	8.50e5	2.55	1.9	0.933	мм

Quantify Compound Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory Vista Schemen Sc

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

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

100 P. P. P.	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	1.24	NO	34.88	1.001	8.11e4	8.34e5	10.6	6.3	0.973	bb
4	200429R2_4	50.0	1.24	NO	34.88	1.000	4.19e5	9.34e5	49.1	-1.8	0.898	bb
5	200429R2_5	200	1.24	NO	34.89	1.001	2.07e6	1.09e6	208	4.2	0.953	bb
6	200429R2_6	1500	1.23	NO	34.87	1.000	2.08e7	1.46e6	1560	4.0	0.951	bb

Compound name: 1,2,3,4,6,7,8-HpCDD Response Factor: 0.897908 RRF SD: 0.0622499, Relative SD: 6.93277 Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area) Curve type: RF

College in	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.08	NO	38.38	1.001	7.93e3	8.17e5	1.08	-13.5	0.777	bb
2	200429R2_2	2.50	1.01	NO	38.37	1.000	1.48e4	6.60e5	2.50	-0.2	0.896	MM
3	200429R2_3	10.0	1.08	NO	38.36	1.000	5.91e4	6.39e5	10.3	3.1	0.925	bd
4	200429R2_4	50.0	0.99	NO	38.38	1.000	3.08e5	6.79e5	50.5	1.0	0.907	bb
5	200429R2_5	200	1.02	NO	38.38	1.000	1.52e6	8.11e5	208	4.1	0.934	bb
6	200429R2_6	1500	1.02	NO	38.37	1.001	1.60e7	1.13e6	1580	5.6	0.948	bb

Compound name: OCDD Response Factor: 0.93349 RRF SD: 0.0706604, Relative SD: 7.56949 Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area) Curve type: RF

H String	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	2.50	0.86	NO	41.35	1.000	1.41e4	1.42e6	2.13	-14.8	0.796	MM
2	200429R2_2	5.00	0.91	NO	41.35	1.000	2.79e4	1.21e6	4.96	-0.8	0.926	bd
3	200429R2_3	20.0	0.88	NO	41.34	1.000	1.08e5	1.10e6	21.2	5.8	0.988	MM
4	200429R2_4	100	0.88	NO	41.35	1.000	5.63e5	1.18e6	102	2.5	0.957	MM
5	200429R2_5	400	0.90	NO	41.35	1.000	2.87e6	1.50e6	411	2.7	0.959	MM
6	200429R2_6	3000	0.89	NO	41.34	1.000	3.39e7	2.31e6	3140	4.6	0.976	MM

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Last Altered:	Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
Printed:	Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 2,3,7,8-TCDF Response Factor: 0.787102 RRF SD: 0.0402419, Relative SD: 5.11266 Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	0.250	0.82	NO	25.09	1.001	4.51e3	2.52e6	0.228	-8.9	0.717	MM
2	200429R2_2	0.500	0.75	NO	25.11	1.001	8.73e3	2.22e6	0.501	0.1	0.788	MM
3	200429R2_3	2.00	0.74	NO	25.11	1.001	3.42e4	2.09e6	2.08	4.1	0.820	bb
4	200429R2_4	10.0	0.74	NO	25.11	1.001	1.65e5	2.15e6	9.76	-2.4	0.768	bb
5	200429R2_5	40.0	0.75	NO	25.12	1.001	8.12e5	2.52e6	41.0	2.4	0.806	bb
6	200429R2_6	300	0.75	NO	25.09	1.001	7.19e6	2.91e6	314	4.7	0.824	bb

Compound name: 1,2,3,7,8-PeCDF Response Factor: 0.910199 RRF SD: 0.0533229, Relative SD: 5.85838 Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.63	NO	29.81	1.000	1.97e4	1.94e6	1.12	-10.8	0.812	MM
2	200429R2_2	2.50	1.54	NO	29.83	1.000	3.85e4	1.69e6	2.50	0.1	0.911	MM
3	200429R2_3	10.0	1.57	NO	29.81	1.000	1.60e5	1.64e6	10.7	7.0	0.974	bb
4	200429R2_4	50.0	1.59	NO	29.81	1.000	8.46e5	1.86e6	50.0	0.0	0.910	bb
5	200429R2_5	200	1.55	NO	29.83	1.000	3.84e6	2.07e6	203	1.7	0.926	bb
6	200429R2_6	1500	1.56	NO	29.81	1.000	3.59e7	2.58e6	1530	1.9	0.928	bb

Compound name: 2,3,4,7,8-PeCDF Response Factor: 0.96636 RRF SD: 0.0480881, Relative SD: 4.97621 Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area) Curve type: RF

1 10	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.49	NO	30.80	1.000	2.03e4	1.84e6	1.14	-8.8	0.881	MM
2	200429R2_2	2.50	1.53	NO	30.82	1.000	3.90e4	1.62e6	2.50	-0.1	0.966	MM

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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	200429R2_3	10.0	1.60	NO	30.80	1.000	1.61e5	1.57e6	10.6	6.4	1.03	bb
4	200429R2_4	50.0	1.56	NO	30.80	1.000	8.75e5	1.82e6	49.8	-0.4	0.962	bb
5	200429R2_5	200	1.55	NO	30.82	1.000	3.97e6	2.01e6	204	2.1	0.987	bb
6	200429R2_6	1500	1.54	NO	30.81	1.000	3.66e7	2.51e6	1510	0.7	0.973	bb

Compound name: 1,2,3,4,7,8-HxCDF Response Factor: 0.878238 RRF SD: 0.066642, Relative SD: 7.58815 Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area) Curve type: RF

10	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.13	NO	33.64	1.001	1.14e4	1.22e6	1.06	-14.9	0.748	bd
2	200429R2_2	2.50	1.21	NO	33.64	1.000	2.26e4	1.02e6	2.52	0.9	0.886	bd
3	200429R2_3	10.0	1.22	NO	33.63	1.000	9.51e4	1.02e6	10.6	6.4	0.935	bd
4	200429R2_4	50.0	1.22	NO	33.64	1.000	5.03e5	1.13e6	50.6	1.1	0.888	bd
5	200429R2_5	200	1,19	NO	33.64	1.000	2.34e6	1.31e6	204	2.1	0.896	bd
6	200429R2_6	1500	1.19	NO	33.63	1.000	2.35e7	1.71e6	1570	4.4	0.917	bd

Compound name: 1,2,3,6,7,8-HxCDF Response Factor: 0.873971 RRF SD: 0.0632141, Relative SD: 7.23298 Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

- UU UR	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.23	NO	33.76	1.001	1.35e4	1.41e6	1.09	-12.6	0.763	MM
2	200429R2_2	2.50	1.19	NO	33.76	1.000	2.55e4	1.18e6	2.46	-1.4	0.861	db
3	200429R2_3	10.0	1.20	NO	33.76	1.001	1.09e5	1.14e6	11.0	9.5	0.957	dd
4	200429R2_4	50.0	1.17	NO	33.76	1.000	5.58e5	1.26e6	50.6	1.2	0.885	db
5	200429R2_5	200	1.19	NO	33.77	1.001	2.62e6	1.46e6	205	2.7	0.897	db
6	200429R2_6	1500	1.19	NO	33.75	1.000	2.52e7	1,91e6	1510	0.7	0.880	db

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

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Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 2,3,4,6,7,8-HxCDF Response Factor: 0.921711 RRF SD: 0.0708547, Relative SD: 7.6873 Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.14	NO	34.32	1.000	1.24e4	1.26e6	1.07	-14.7	0.786	bb
2	200429R2_2	2.50	1.16	NO	34.33	1.001	2.38e4	1.05e6	2.46	-1.5	0.908	MM
3	200429R2_3	10.0	1.22	NO	34.32	1.000	1.02e5	1.03e6	10.7	7.1	0.987	bb
4	200429R2_4	50.0	1.17	NO	34.33	1.000	5.42e5	1.14e6	51.6	3.2	0.951	bb
5	200429R2_5	200	1.19	NO	34.33	1.000	2.49e6	1.31e6	206	3.0	0.950	bb
6	200429R2_6	1500	1.19	NO	34.33	1.000	2.48e7	1.74e6	1540	2.9	0.948	bb

Compound name: 1,2,3,7,8,9-HxCDF Response Factor: 0.864187 RRF SD: 0.0516808, Relative SD: 5.98028 Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area) Curve type: RF

n'n k	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	1.22	NO	35.21	1.000	9.52e3	9.91e5	1.11	-11.0	0.769	MM
2	200429R2_2	2.50	1.21	NO	35.21	1.000	1.86e4	8.77 e 5	2.45	-1.8	0.848	MM
3	200429R2_3	10.0	1.22	NO	35.21	1.000	7.78e4	8.59e5	10.5	4.9	0.906	bb
4	200429R2_4	50.0	1.17	NO	35.22	1.000	4.02e5	9.29e5	50.1	0.2	0.866	bb
5	200429R2_5	200	1.19	NO	35.22	1.000	1.99e6	1.11e6	207	3.7	0.896	bb
6	200429R2_6	1500	1.20	NO	35.21	1.000	1.98e7	1.47e6	1560	4.0	0.899	bb

Compound name: 1,2,3,4,6,7,8-HpCDF Response Factor: 0.871204 RRF SD: 0.0656544, Relative SD: 7.53606 Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area) Curve type: RF

A STATE	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	1.25	0.99	NO	36.94	1.000	8.60e3	9.24e5	1.07	-14.5	0.745	MM
2	200429R2_2	2.50	1.00	NO	36.97	1.001	1.73e4	7.84e5	2.54	1.5	0.884	MM

Page 6 of 16

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

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered:	Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
Printed:	Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

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

ll e a -	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	0.95	NO	36.96	1.000	6.95e4	7.69e5	10.4	3.7	0.903	MM
4	200429R2_4	50.0	0.96	NO	36.97	1.000	3.72e5	8.65e5	49.4	-1.2	0.861	bb
5	200429R2_5	200	0.99	NO	36.97	1.000	1.79e6	9.81e5	210	5.0	0.914	bb
6	200429R2_6	1500	0.99	NO	36.96	1.001	1.89e7	1.37e6	1580	5.5	0.919	bb

Compound name: 1,2,3,4,7,8,9-HpCDF Response Factor: 1.01156 RRF SD: 0.0670054, Relative SD: 6.62397 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	200429R2_1	1.25	0.97	NO	38.95	1.000	6.68e3	5.96e5	1.11	-11.4	0.897	MM
2	200429R2_2	2.50	0.96	NO	38.95	1.000	1.20e4	4.92e5	2.41	-3.7	0.974	MM
3	200429R2_3	10.0	1.01	NO	38.95	1.000	4.94e4	4.72e5	10.4	3.5	1.05	MM
4	200429R2_4	50.0	1.00	NO	38.96	1.000	2.60e5	5.12e5	50.2	0.3	1.01	bb
5	200429R2_5	200	0.99	NO	38.96	1.000	1.29e6	6.09e5	209	4.7	1.06	bb
6	200429R2_6	1500	0.99	NO	38.94	1.000	1.43e7	8.85e5	1600	6.5	1.08	bb

Compound name: OCDF Response Factor: 0.802147 RRF SD: 0.0574516, Relative SD: 7.16223 Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area) Curve type: RF

THE PARTY	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	2.50	0.84	NO	41.52	1.000	1.41e4	1.62e6	2.17	-13.4	0.695	MM
2	200429R2_2	5.00	0.85	NO	41.52	1.000	2.74e4	1.40e6	4.88	-2.4	0.783	MM
3	200429R2_3	20.0	0.88	NO	41.52	1.000	1.07e5	1.27e6	21.0	5.0	0.842	bb
4	200429R2_4	100	0.86	NO	41.53	1.000	5.36e5	1.32e6	101	1.3	0.813	bb
5	200429R2_5	400	0.87	NO	41.53	1.000	2.84e6	1.69e6	420	5.0	0.842	bb
6	200429R2_6	3000	0.87	NO	41.52	1.000	3.30e7	2.63e6	3130	4.4	0.838	bb

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Last Altered:	Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
Printed:	Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 13C-2,3,7,8-TCDD Response Factor: 1.15948 RRF SD: 0.103741, Relative SD: 8.94721 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	200429R2_1	100	0.79	NO	26.02	1.027	1.71e6	1.32e6	112	11.9	1.30	bb
2	200429R2_2	100	0.79	NO	26.03	1.027	1.49e6	1.44e6	89.7	-10.3	1.04	bb
3	200429R2_3	100	0.80	NO	26.02	1.026	1.43e6	1.38e6	89.4	-10.6	1.04	bb
4	200429R2_4	100	0.80	NO	26.03	1.027	1.49e6	1.28e6	100	0.3	1.16	bb
5	200429R2_5	100	0.79	NO	26.03	1.027	1.74e6	1.45e6	103	3.3	1.20	MM
6	200429R2_6	100	0.79	NO	26.02	1.027	2.03e6	1.66e6	105	5.4	1.22	bb

Compound name: 13C-1,2,3,7,8-PeCDD Response Factor: 0.847234 RRF SD: 0.105802, Relative SD: 12.488 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	200429R2_1	100	0.64	NO	31.11	1.227	1.18e6	1.32e6	106	6.2	0.900	bb
2	200429R2_2	100	0.65	NO	31.13	1.227	1.02e6	1.44e6	84.2	-15.8	0.713	bb
3	200429R2_3	100	0.64	NO	31.11	1.227	9.92e5	1.38e6	84.9	-15.1	0.719	bb
4	200429R2_4	100	0.65	NO	31.11	1.227	1.14e6	1.28e6	105	5.0	0.889	bb
5	200429R2_5	100	0.63	NO	31.13	1.227	1.29e6	1.45e6	105	5.1	0.890	bb
6	200429R2_6	100	0.64	NO	31.11	1.227	1.61e6	1.66e6	115	14.6	0.971	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD Response Factor: 0.749916 RRF SD: 0.0958664, Relative SD: 12.7836 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

10235	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.27	NO	34.48	1.014	9.05e5	1.10e6	109	9.5	0.821	bd
2	200429R2_2	100	1.30	NO	34.49	1.014	7.45e5	1.19e6	83.5	-16.5	0.626	bd

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Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

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

100	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	1.29	NO	34.48	1.014	7.52e5	1.15e6	87.1	-12.9	0.653	bd
4	200429R2_4	100	1.29	NO	34.49	1.014	8.49e5	1.15e6	98.6	-1.4	0.739	bd
5	200429R2_5	100	1.28	NO	34.49	1.014	9.92e5	1.26e6	105	5.3	0.790	bd
6	200429R2_6	100	1.27	NO	34.48	1.014	1.29e6	1.48e6	116	16.0	0.870	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD Response Factor: 0.963047 RRF SD: 0.127006, Relative SD: 13.1879 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

THE NE	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.28	NO	34.59	1.017	1.16e6	1.10e6	109	9.3	1.05	db
2	200429R2_2	100	1.29	NO	34.59	1.017	9.85e5	1.19e6	85.9	-14.1	0.827	db
3	200429R2_3	100	1.29	NO	34.59	1.017	9.49e5	1.15e6	85.7	-14.3	0.825	db
4	200429R2_4	100	1.26	NO	34.59	1.017	1.08e6	1.15e6	97.7	-2.3	0.941	db
5	200429R2_5	100	1.27	NO	34.60	1.017	1.24e6	1.26e6	102	2.2	0.985	db
6	200429R2_6	100	1.26	NO	34.58	1.017	1.70e6	1.48 e 6	119	19.2	1.15	db

Compound name: 13C-1,2,3,7,8,9-HxCDD Response Factor: 0.83755 RRF SD: 0.108482, Relative SD: 12,9523 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

o at	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.31	NO	34.86	1.025	1.02e6	1.10e6	110	10.2	0.923	bď
2	200429R2_2	100	1.28	NO	34.87	1.025	8.50e5	1.19e6	85.2	-14.8	0.713	bb
3	200429R2_3	100	1.25	NO	34.86	1.025	8.34e5	1.15e6	86.5	-13.5	0.724	bb
4	200429R2_4	100	1.25	NO	34.87	1.025	9.34e5	1.15e6	97.2	-2.8	0.814	bb
5	200429R2_5	100	1.25	NO	34.87	1.025	1.09e6	1.26e6	103	3.2	0.864	bb
6	200429R2_6	100	1.25	NO	34.86	1.025	1.46e6	1.48e6	118	17.7	0.986	bb

Page 9 of 16

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

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.gld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4,6,7,8-HpCDD Response Factor: 0.641477

RRF SD: 0.0915679, Relative SD: 14.2745 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

20.54	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.06	NO	38.35	1.128	8.17e5	1.10e6	116	15.5	0.741	bd
2	200429R2_2	100	1.06	NO	38.36	1.128	6.60e5	1.19e6	86.4	-13.6	0.554	MM
3	200429R2_3	100	1.02	NO	38.36	1.128	6.39e5	1.15e6	86.5	-13.5	0.555	bb
4	200429R2_4	100	1.09	NO	38.37	1.128	6.79e5	1.15e6	92.2	-7.8	0.592	MM
5	200429R2_5	100	1.02	NO	38.37	1 128	8.11e5	1.26e6	101	0.6	0.646	bb
6	200429R2_6	100	1.05	NO	38.35	1.128	1.13e6	1.48e6	119	18.7	0.761	bb

Compound name: 13C-OCDD Response Factor: 0.586321 RRF SD: 0.114579, Relative SD: 19.5421 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	200429R2_1	200	0.89	NO	41.34	1.216	1.42e6	1.10e6	220	9.8	0.644	MM
2	200429R2_2	200	0.90	NO	41.34	1.215	1.21e6	1.19e6	173	-13.7	0.506	MM
3	200429R2_3	200	0.93	NO	41.33	1.215	1.10e6	1.15e6	162	-18.8	0.476	MM
4	200429R2_4	200	0.93	NO	41.34	1.215	1.18e6	1.15e6	175	-12.5	0.513	MM
5	200429R2_5	200	0.90	NO	41.34	1.215	1.50e6	1.26e6	203	1.7	0.597	MM
6	200429R2_6	200	0.90	NO	41.33	1.215	2.31e6	1.48e6	267	33.4	0.782	MM

Compound name: 13C-2,3,7,8-TCDF Response Factor: 1.03447 RRF SD: 0.0994265, Relative SD: 9.61138 Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area) Curve type: RF

Sul and	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.78	NO	25.08	0.989	2.52e6	2.12e6	115	14.8	1.19	bb
2	200429R2_2	100	0.78	NO	25.09	0.989	2.22e6	2.37e6	90.3	-9.7	0.934	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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

1000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	0.78	NO	25.08	0.989	2.09e6	2.27e6	89.0	-11.0	0.920	bb
4	200429R2_4	100	0.77	NO	25.09	0.989	2.15e6	2.10e6	9 9. 1	-0.9	1.03	bb
5	200429R2_5	100	0.79	NO	25.09	0.989	2.52e6	2.38e6	102	2.1	1.06	bb
6	200429R2_6	100	0.77	NO	25.08	0.989	2.91e6	2.69e6	105	4.7	1.08	bb

Compound name: 13C-1,2,3,7,8-PeCDF Response Factor: 0.84507 RRF SD: 0.102566, Relative SD: 12.137 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	200429R2_1	100	1.60	NO	29.80	1.176	1.94e6	2.12e6	108	8.3	0.915	bb
2	200429R2_2	100	1.62	NO	29.81	1.176	1.69e6	2.37e6	84.4	-15.6	0.713	bb
3	200429R2_3	100	1.61	NO	29.80	1.175	1.64e6	2.27e6	85.7	-14.3	0.724	bb
4	200429R2_4	100	1.63	NO	29.80	1.175	1.86e6	2.10e6	105	4.9	0.886	bb
5	200429R2_5	100	1.58	NO	29.81	1.176	2.07e6	2.38e6	103	3.0	0.871	bb
6	200429R2_6	100	1.59	NO	29.80	1.176	2.58e6	2.69e6	114	13.7	0.960	bb

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

Response Factor: 0.814071 RRF SD: 0.103739, Relative SD: 12.7432 Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area) Curve type: RF

f is the	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	1.58	NO	30.79	1.215	1.84e6	2.12e6	107	6.7	0.869	bb
2	200429R2_2	100	1.59	NO	30.80	1.215	1.62e6	2.37e6	83.6	-16.4	0.681	db
3	200429R2_3	100	1.58	NO	30.79	1.214	1.57e6	2.27e6	84.8	-15.2	0.691	db
4	200429R2_4	100	1.60	NO	30.79	1.214	1.82e6	2.10e6	107	6.5	0.867	db
5	200429R2_5	100	1.60	NO	30.80	1.215	2.01e6	2.38e6	104	3.7	0.844	db
6	200429R2_6	100	1.58	NO	30.79	1.215	2.51e6	2.69e6	115	14.6	0.933	db

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered:	Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
Printed:	Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4,7,8-HxCDF Response Factor: 1.00488 RRF SD: 0.118528, Relative SD: 11.7952 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

COLUMN T	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.50	NO	33.62	0.989	1.22e6	1.10e6	110	10.1	1.11	bd
2	200429R2_2	100	0.51	NO	33.63	0.989	1.02e6	1.19e6	85.4	-14.6	0.858	bd
3	200429R2_3	100	0.51	NO	33.62	0.988	1.02e6	1.15e6	88.0	-12.0	0.884	bd
4	200429R2_4	100	0.51	NO	33.63	0.989	1.13e6	1.15e6	98.3	-1.7	0.987	bd
5	200429R2_5	100	0.51	NO	33.63	0.988	1.31e6	1.26e6	103	3.5	1.04	bd
6	200429R2_6	100	0.51	NO	33.62	0.989	1.71e6	1.48e6	115	14.9	1.15	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF Response Factor: 1.13681 RRF SD: 0.13421, Relative SD: 11.8059 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

ALL ALL	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.51	NO	33.74	0.992	1.41e6	1.10e6	113	12.9	1.28	db
2	200429R2_2	100	0.52	NO	33.75	0.992	1.18e6	1.19e6	87.4	-12.6	0.994	db
3	200429R2_3	100	0.51	NO	33.74	0.992	1.14e6	1.15e6	87.0	-13.0	0.990	db
4	200429R2_4	100	0.51	NO	33.75	0.992	1.26e6	1.15e6	96.7	-3.3	1.10	db
5	200429R2_5	100	0.51	NO	33.75	0.992	1.46e6	1.26e6	102	2.3	1.16	db
6	200429R2_6	100	0.51	NO	33.74	0.992	1.91e6	1.48e6	114	13.7	1.29	db

Compound name: 13C-2,3,4,6,7,8-HxCDF Response Factor: 1.02233 RRF SD: 0.123256, Relative SD: 12.0564 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

ni) inponi	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.52	NO	34.31	1.009	1.26e6	1.10e6	112	11.8	1.14	MM
2	200429R2_2	100	0.51	NO	34.31	1.009	1.05e6	1.19e6	86.2	-13.8	0.881	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

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

1.040	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	0.52	NO	34.31	1.009	1.03e6	1.15e6	87.6	-12.4	0.895	bb
4	200429R2_4	100	0.51	NO	34.33	1.009	1.14e6	1.15e6	97.2	-2.8	0.993	bb
5	200429R2_5	100	0.51	NO	34.33	1.009	1.31e6	1.26e6	102	2.1	1.04	bb
6	200429R2_6	100	0.51	NO	34.31	1.009	1.74e6	1.48e6	115	15.2	1.18	bb

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

Response Factor: 0.844773 RRF SD: 0.0991685, Relative SD: 11.7391 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

. n . H	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.51	NO	35.20	1.035	9.91e5	1.10e6	106	6.4	0.899	bb
2	200429R2_2	100	0.51	NO	35.20	1.035	8.77e5	1.19e6	87.2	-12.8	0.737	bb
3	200429R2_3	100	0.50	NO	35.20	1.035	8.59e5	1.15e6	88.3	-11.7	0.746	bb
4	200429R2_4	100	0.51	NO	35.21	1.035	9.29e5	1.15e6	95.9	-4.1	0.810	MM
5	200429R2_5	100	0.51	NO	35.21	1.035	1.11e6	1.26e6	105	4.6	0.883	bb
6	200429R2_6	100	0.52	NO	35.20	1.035	1.47e6	1.48e6	118	17.6	0.994	bb

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

Response Factor: 0.771212 RRF SD: 0.102676, Relative SD: 13.3136 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

- 1-22	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.43	NO	36.93	1.086	9.24e5	1.10e6	109	8.6	0.838	bb
2	200429R2_2	100	0.43	NO	36.94	1.086	7.84e5	1.19e6	85.4	-14.6	0.659	bb
3	200429R2_3	100	0.44	NO	36.94	1.086	7.69e5	1.15e6	86.7	-13.3	0.668	bd
4	200429R2_4	100	0.43	NO	36.96	1.086	8.65e5	1.15e6	97.7	-2.3	0.754	bd
5	200429R2_5	100	0.42	NO	36.96	1.086	9.81e5	1.26 e 6	101	1.2	0.781	bb
6	200429R2_6	100	0.44	NO	36.93	1.086	1.37 e 6	1.48e6	120	20.3	0.928	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered:	Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
Printed:	Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4,7,8,9-HpCDF Response Factor: 0.482289 RRF SD: 0.0750769, Relative SD: 15.5668 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	200429R2_1	100	0.41	NO	38.94	1.145	5.96e5	1.10e6	112	12.1	0.541	bb
2	200429R2_2	100	0.44	NO	38.94	1.145	4.92e5	1.19e6	85.7	-14.3	0.413	MM
3	200429R2_3	100	0.45	NO	38.94	1.145	4.72e5	1.15e6	85.0	-15.0	0.410	MM
4	200429R2_4	100	0.44	NO	38.95	1 145	5.12e5	1.15e6	92.5	-7.5	0.446	MM
5	200429R2_5	100	0.43	NO	38.95	1.145	6.09e5	1.26e6	101	0.6	0.485	bb
6	200429R2_6	100	0.43	NO	38.93	1.145	8.85e5	1.48e6	124	24.1	0.598	bb

Compound name: 13C-OCDF Response Factor: 0.668505 RRF SD: 0.127842, Relative SD: 19.1235 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

Proceeding of the	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	200	0.88	NO	41.51	1.221	1.62e6	1.10e6	220	9.9	0.735	bb
2	200429R2_2	200	0.86	NO	4 1 .51	1.220	1.40e6	1.19e6	176	-12.0	0.588	MM
3	200429R2_3	200	0.89	NO	41.51	1.220	1.27e6	1.15e6	165	-17.4	0.552	bd
4	200429R2_4	200	0.88	NO	41.52	1.221	1.32e6	1.15e6	172	-14.0	0.575	bb
5	200429R2_5	200	0.87	NO	41.52	1.220	1.69e6	1.26e6	201	0.5	0.672	bb
6	200429R2_6	200	0.88	NO	41.51	1.221	2.63e6	1.48e6	266	33.0	0.889	bb

Compound name: 37CI-2,3,7,8-TCDD Response Factor: 1.09842 RRF SD: 0.0959308, Relative SD: 8.73354 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	200429R2_1	0.250			26.05	1.028	3.33e3	1.32e6	0.230	-7.9	1.01	bb
2	200429R2_2	0.500			26.07	1.028	7.64e3	1.44e6	0.484	-3.2	1.06	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

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

1	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	2.00			26.05	1.027	2.74e4	1.38e6	1.81	-9.5	0.994	bd
4	200429R2_4	10.0			26.05	1.027	1.41e5	1.28e6	10.0	0.4	1.10	bb
5	200429R2_5	40.0			26.07	1.028	6.87e5	1.45e6	43.0	7.5	1.18	bb
6	200429R2_6	200			26.05	1.028	4.11e6	1.66e6	225	12.7	1.24	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	200429R2_1	100	0.80	NO	25.35	1.000	1.32e6	1.32e6	100	0.0	1.00	bb
2	200429R2_2	100	0.80	NO	25.36	1.000	1.44e6	1.44e6	100	0.0	1.00	bb
3	200429R2_3	100	0.81	NO	25.36	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200429R2_4	100	0.80	NO	25.36	1.000	1.28e6	1.28e6	100	0.0	1.00	bb
5	200429R2_5	100	0.81	NO	25.36	1.000	1.45e6	1.45e6	100	0.0	1.00	bb
6	200429R2_6	100	0.80	NO	25.35	1.000	1.66e6	1.66e6	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

NATE ST	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.79	NO	23.57	1.000	2.12e6	2.12e6	100	0.0	1.00	bb
2	200429R2_2	100	0.79	NO	23.58	1.000	2.37e6	2.37e6	100	0.0	1.00	bb
3	200429R2_3	100	0.79	NO	23.58	1.000	2.27e6	2.27e6	100	0.0	1.00	bb
4	200429R2_4	100	0.79	NO	23.59	1.000	2.10e6	2.10e6	100	0.0	1.00	bb
5	200429R2_5	100	0.79	NO	23.59	1.000	2.38e6	2.38e6	100	0.0	1.00	bb
6	200429R2_6	100	0.79	NO	23.57	1.000	2.69e6	2.69e6	100	0.0	1.00	bb

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

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.gld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4,6,9-HxCDF Response Factor: 1 RRF SD: 0, Relative SD: 0 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200429R2_1	100	0.51	NO	34.01	1.000	1.10e6	1.10e6	100	0.0	1.00	bb
2	200429R2_2	100	0.50	NO	34.01	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
3	200429R2_3	100	0.51	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
4	200429R2_4	100	0.50	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
5	200429R2_5	100	0.51	NO	34.03	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
6	200429R2_6	100	0.51	NO	34.01	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Page 16 of 16

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

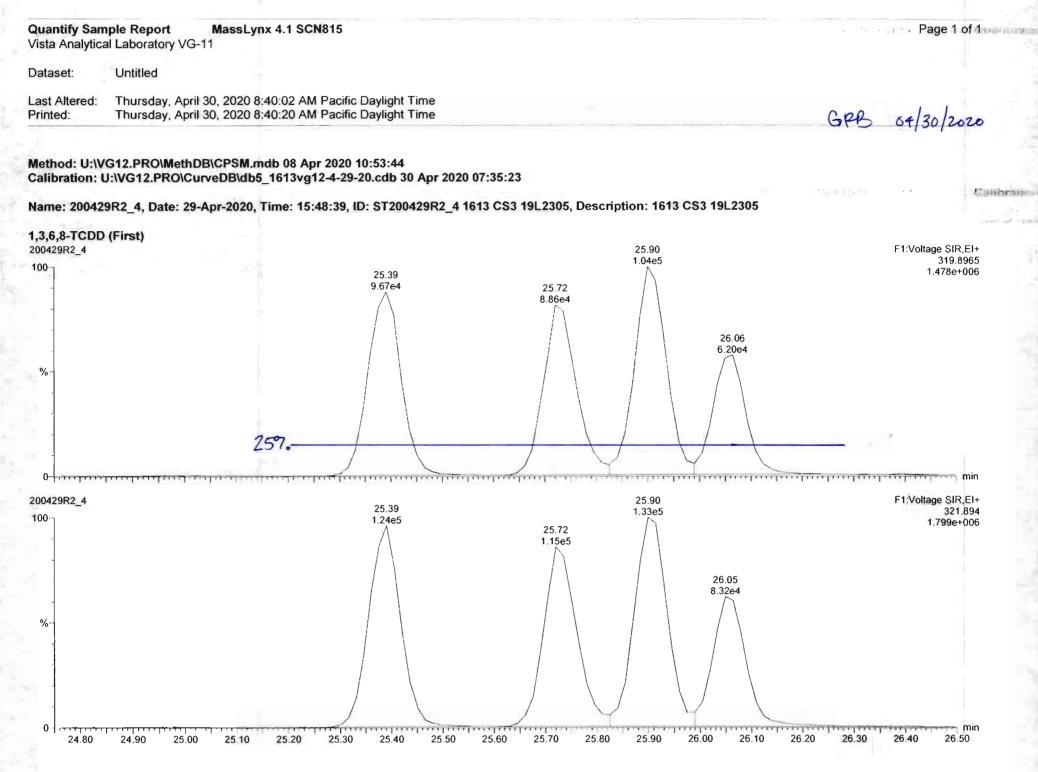
Page 1 of 1

Untitled Dataset: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time Last Altered: Printed:

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Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	21.90
2	2 1,2,8,9-TCDD (Last)	27.05
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.52
5	5 1,2,4,6,7,9-HxCDD (First)	33.04
6	6 1,2,3,7,8,9-HxCDD (Last)	34.88
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.35
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.38
9	9 1,3,6,8-TCDF (First)	19.85
10	10 1,2,8,9-TCDF (Last)	27.19
11	11 1.3,4,6,8-PeCDF (First)	27.17
12	12 1,2,3,8,9-PeCDF (Last)	31.75
13	13 1,2,3,4,6,8-HxCDF (First)	32.47
14	14 1,2,3,7,8,9-HxCDF (Last)	35.22
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.97
16	16 1.2.3,4,7,8,9-HpCDF (Last)	38.96



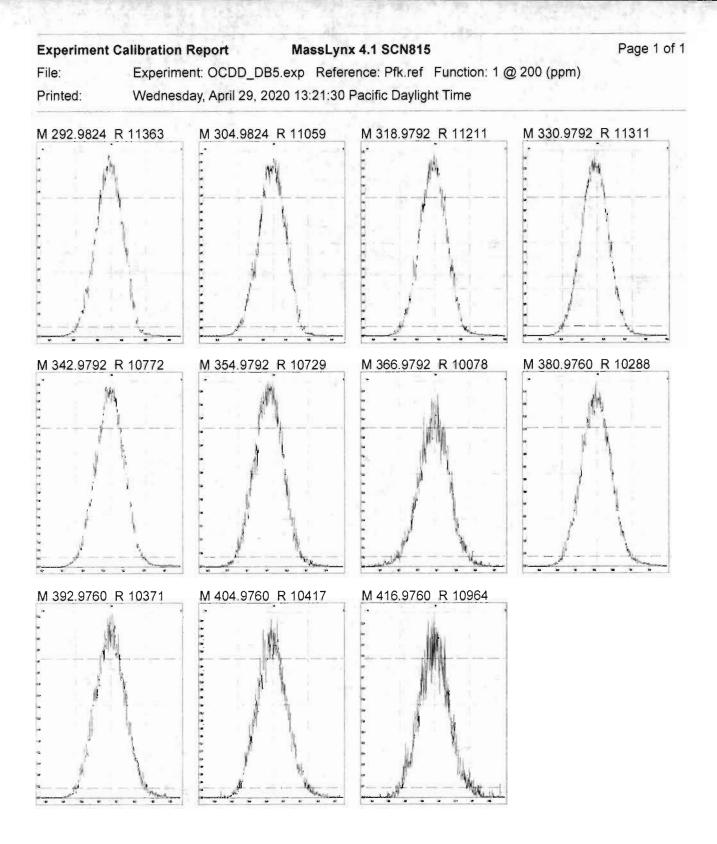
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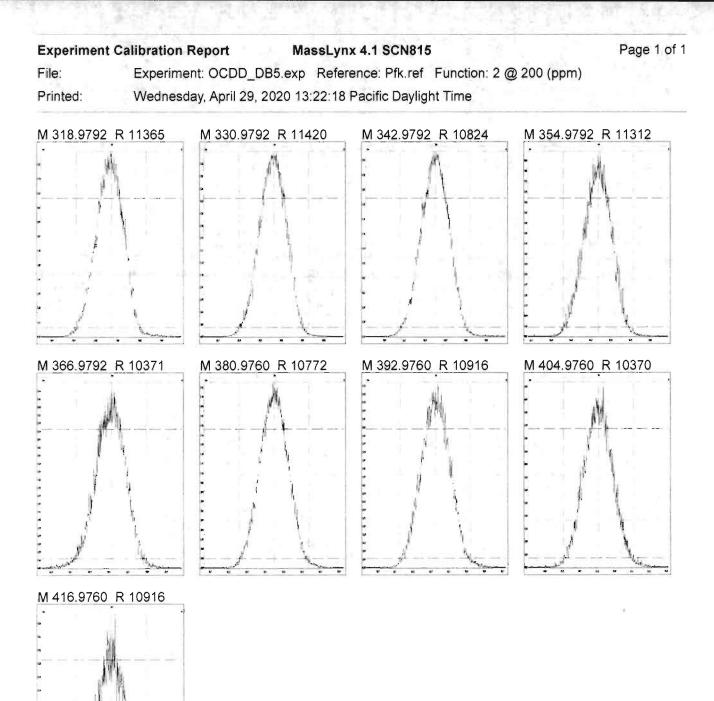
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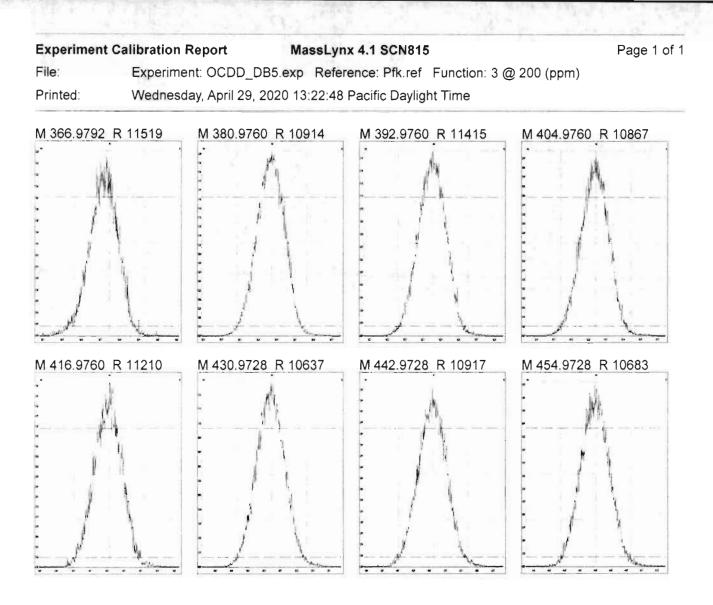
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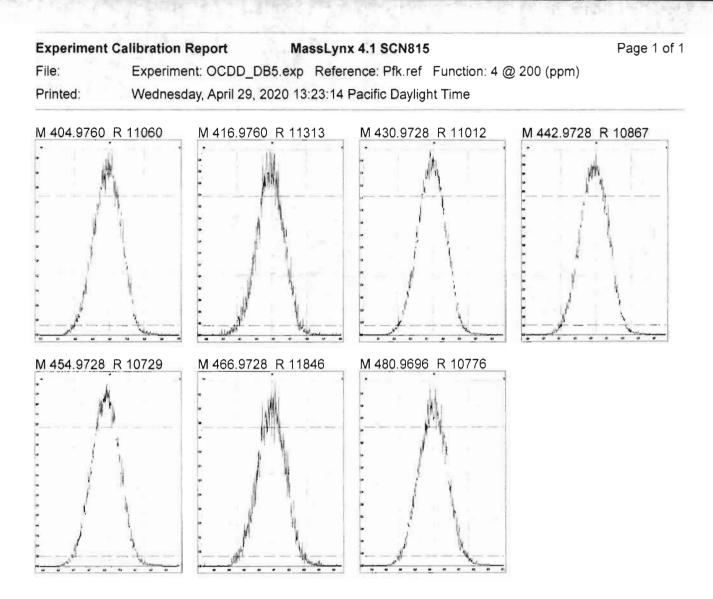
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2	200429R2_2	ST200429R2_2 1613 CS1 19L2303	29-Apr-20	14:15:04
3	200429R2_3	ST200429R2_3 1613 CS2 19L2304	29-Apr-20	15:02:24
4	200429R2_4	ST200429R2_4 1613 CS3 19L2305	29-Apr-20	15:48:39
5	200429R2_5	ST200429R2_5 1613 CS4 19L2306	29-Apr-20	16:35:58
6	200429R2_6	ST200429R2_6 1613 CS5 19L2307	29-Apr-20	17:23:21
7	200429R2_7	SOLVENT BLANK	29-Apr-20	18:10:44
8	200429R2_8	SS200429R2_1 1613 SSS 19L2308	29-Apr-20	18:58:05
9	200429R2_9	B0C0304-BS4 OPR 10	29-Apr-20	19:54:24
10	200429R2_10	B0C0304-BS3 OPR 10	29-Apr-20	20:40:38
11	200429R2_11	B0C0304-BS2 OPR 10	29-Apr-20	21:28:00
12	200429R2_12	B0C0304-BS1 OPR 10	29-Apr-20	22:15:28
13	200429R2_13	B0D0053-BS4 OPR 10	29-Apr-20	23:02:49
14	200429R2_14	B0D0053-BS3 OPR 10	29-Apr-20	23:50:11
15	200429R2_15	B0D0053-BS2 OPR 10	30-Apr-20	00:37:32
16	200429R2_16	B0D0053-BS1 OPR 10	30-Apr-20	01:24:55
17	200429R2_17	SOLVENT BLANK	30-Apr-20	02:12:17
18	200429R2_18	B0D0053-BLK1 Method Blank 10	30-Apr-20	02:59:37
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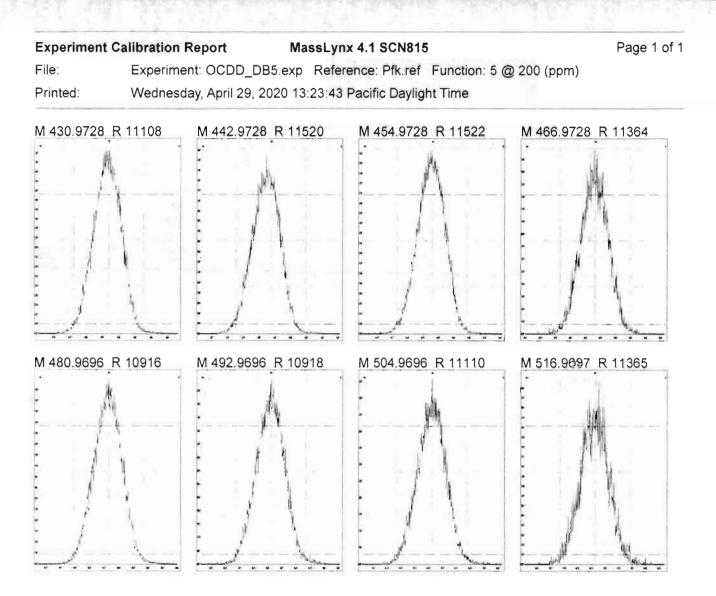
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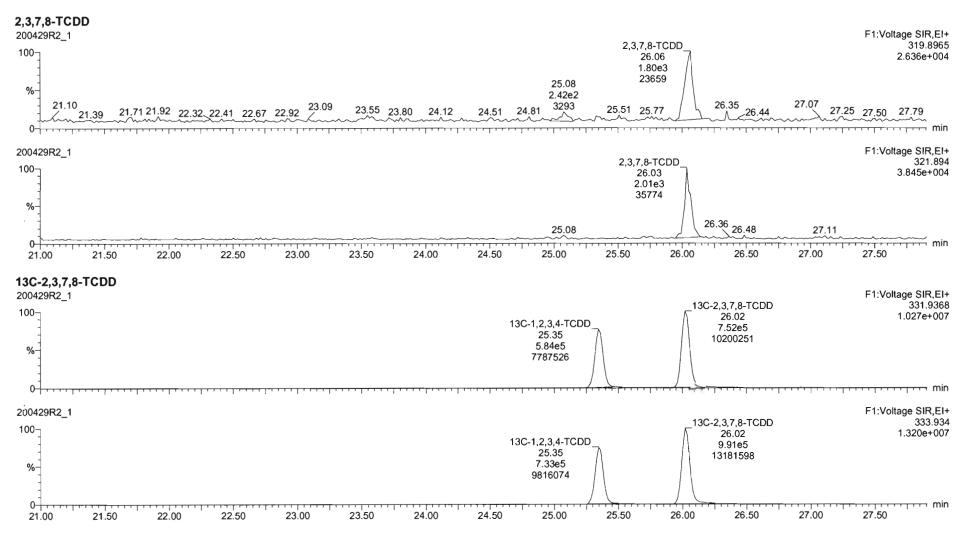




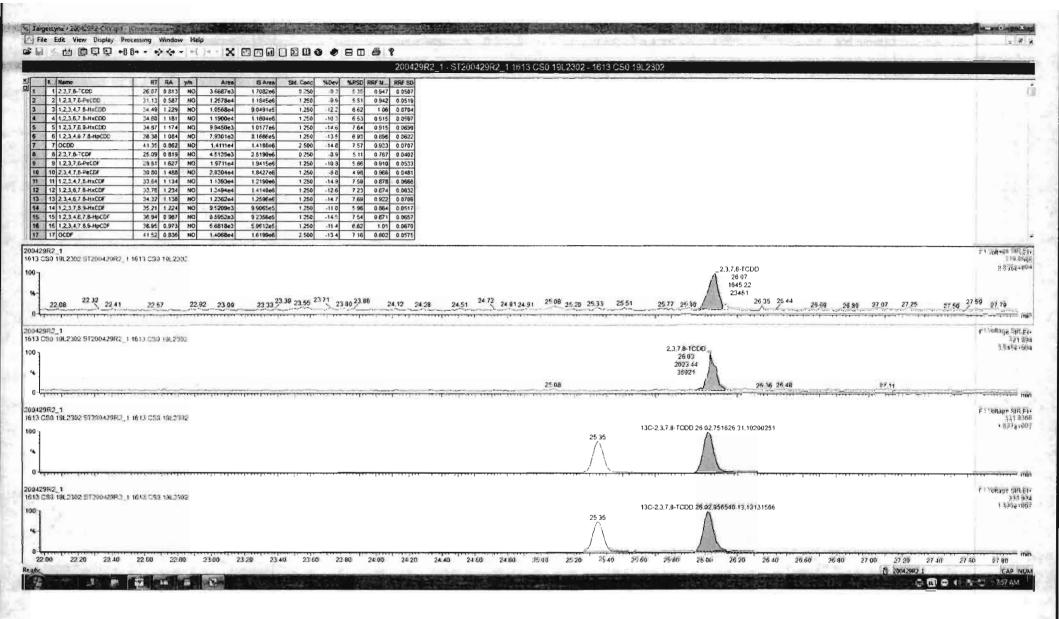
Quantify Sam Vista Analytica		Page 1 of 78
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Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

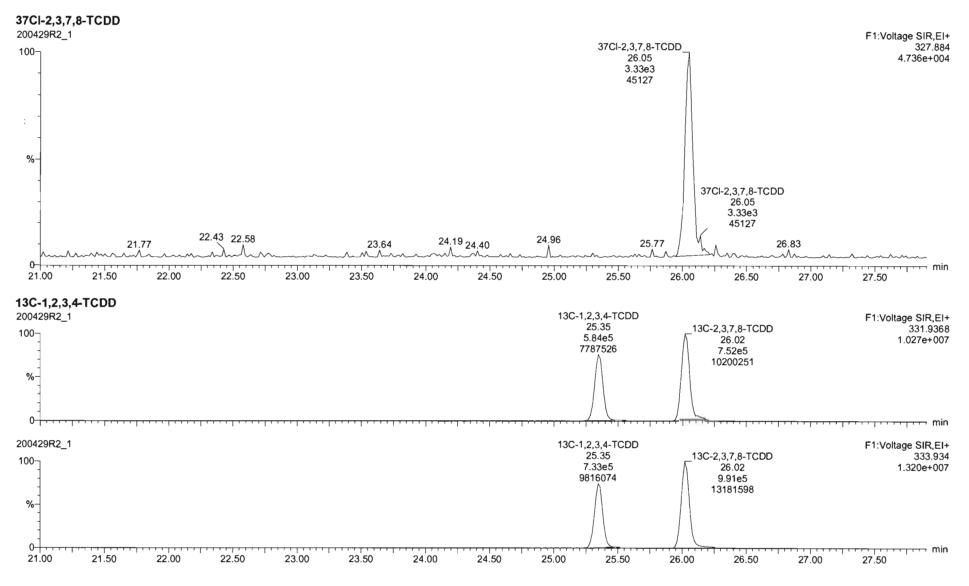
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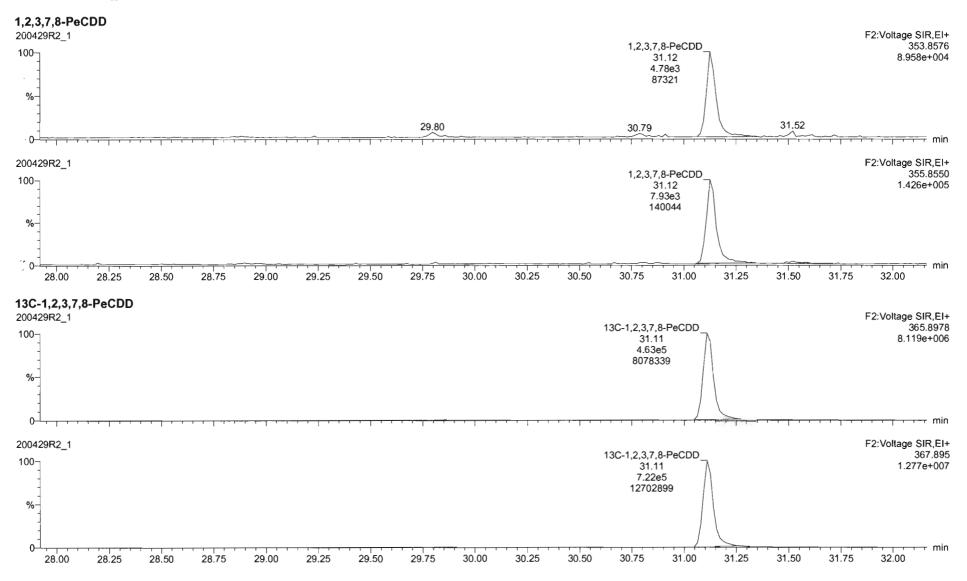


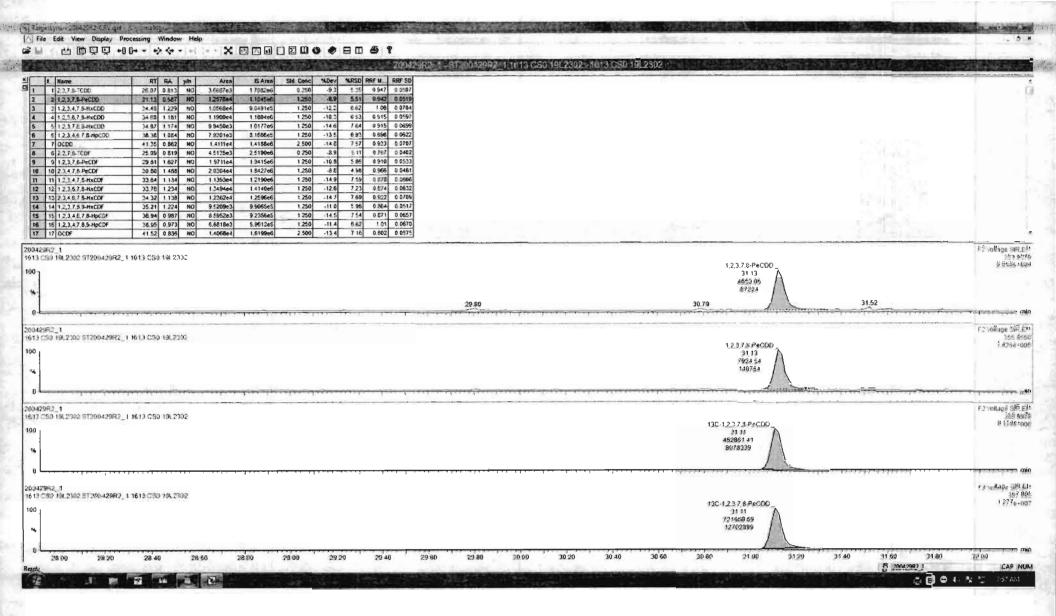
Quantify Sam Vista Analytica		Page 2 of 78
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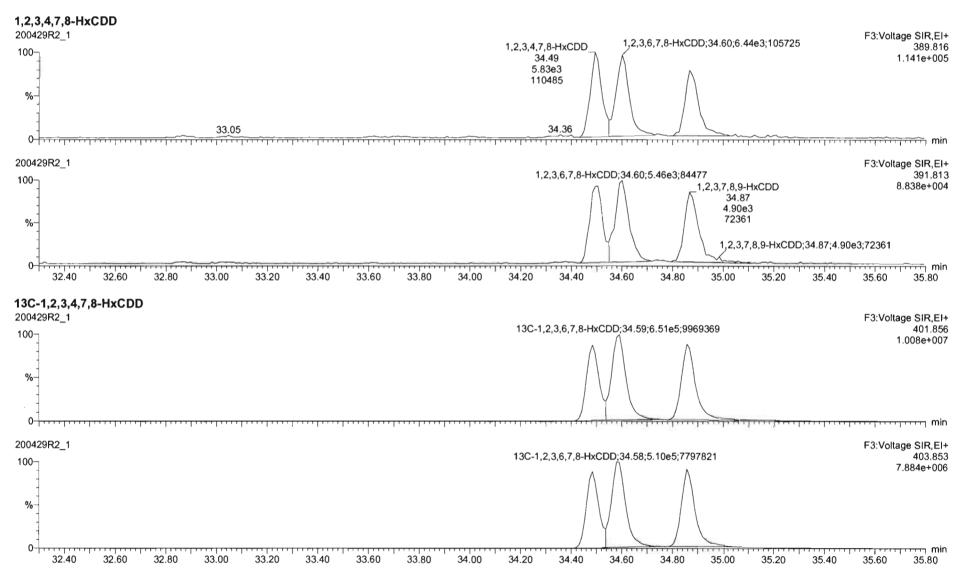
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Quantify Sam Vista Analytica		Page 3 of 78
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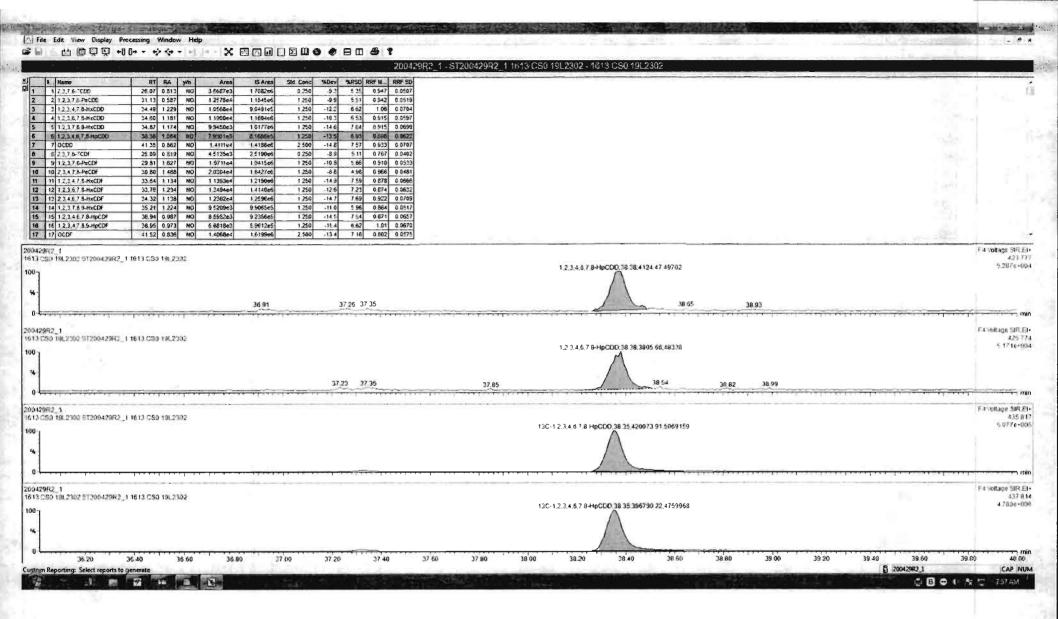


Quantify Sam Vista Analytica		Page 4 of 78
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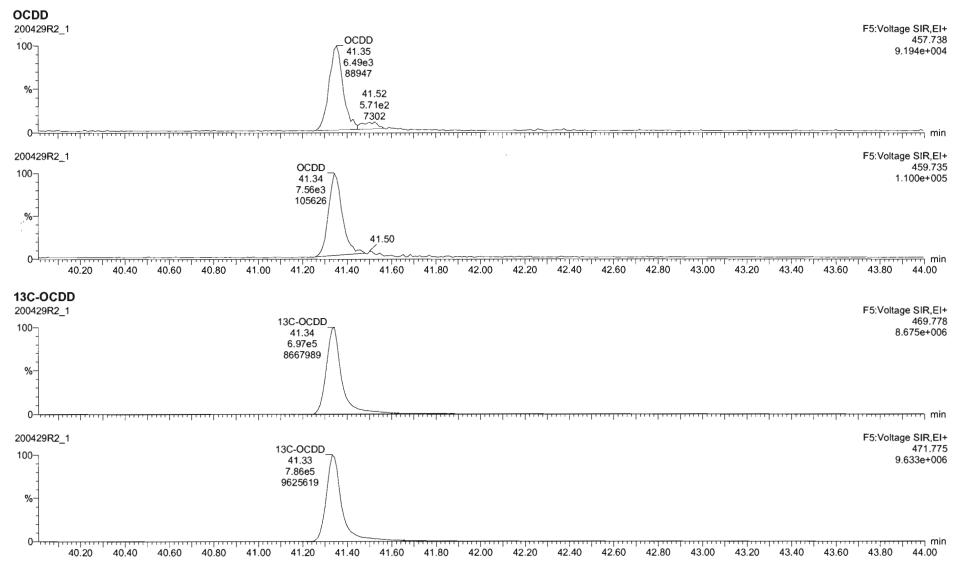


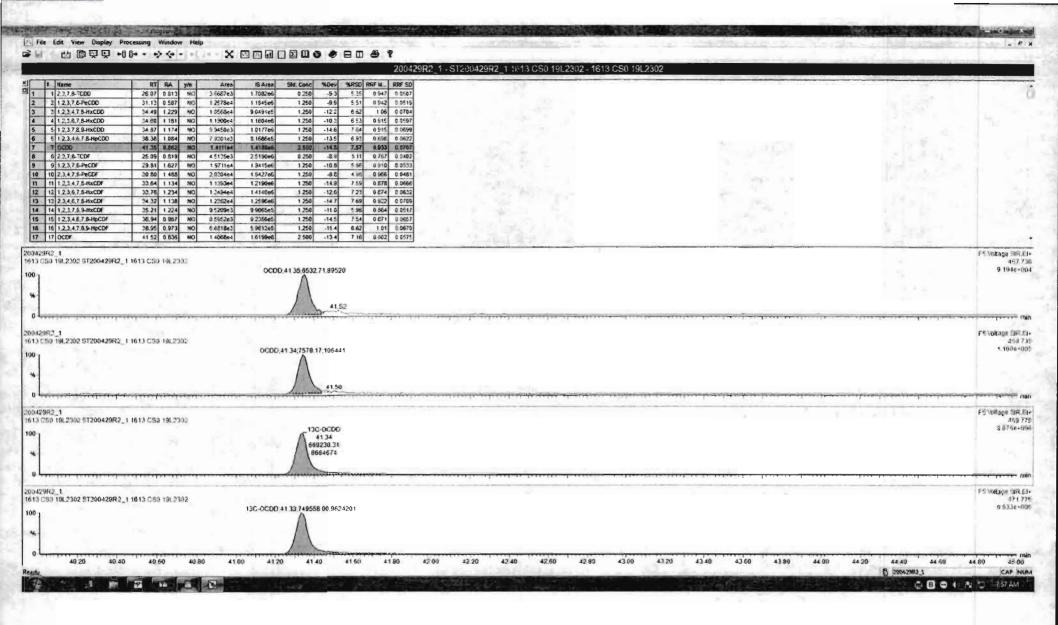
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12.3.7.8-FCDD 26.07 0.813 NU 3.6687-83 1.7082-66 0.230 21.2.3.7.8-F6CDD 31.13 9.587 NO 1.2578-64 1.1845e6 1.250 31.2.3.4.7.8-HxCDD 31.43 9.527 NO 1.2578-44 1.1845e6 1.250 31.2.3.4.7.8-HxCDD 34.49 1.227 NO 1.0568e4 9.6491e5 1.250	-9:3 5:15 0.942 0.0507 -9:9 5:51 0.942 0.0515 -122 6:62 1.06 0.0704	
4 1.2,3,6,7,8,4xCDD 24.69, 1181 NV 11900e4 11604e6 1226 5 123,3,7,8,4xC0D 34.67 1,174 80 5.9450e3 1.6177e6 1226 6 12,3,4.6.7,8,4yCDD 26.38 1084 ND 7.9301e2 8.1666e5 1259 7 OCCD 41.35 0.62 NO 1.4111e4 1.4186e5 2.500	-102 (53) 0595 02697 -148 7.84 0995 02686 -135 892 0686 0582 -148 7.57 0583 0010	
6 2 2,7,8-TCDF 23 05 0 519 NO 4 5125e3 2 5190e6 0 2260 9 1 2,3,7,8-PeCDF 23 81 1 627 NO 1 571te4 1 9415e6 1 260 0 2,3,4,7,8-PeCDF 20 80 1 488 NO 2 0304e4 1 8427e6 1 250 11 2,3,4,7,8-PeCDF 33 84 1 1,3 NO 1 1350e4 1 2190e6 1 250	35 511 0.767 0.3402 10.3 5.66 0.910 0.0533 -82 4.96 0.966 0.0461 14.3 7.50 0.378 0.0666	
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2_1 0 19L2302 6T200429R2_1 1613 CSa 19L2302	12.37894HcD0 34.49 34.49 34.60 5369.87 65543	F3.\98
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2,3,4,6,7,8-H 00429R2_1	HpCDD				F4:Voltage SIR
00- - - %-				1,2,3,4,6,7,8-H 38.38 4,12e3 49702	pCDD 423. 5.287e+
		36.91	37.26 37.35	38.65	
0-+					F4:Voltage SIR
 %			37.35	1,2,3,4,6,7,8-HpCDD 1,2,3,4,6,7,8-HpCDD 38,38 38,38 3,82e3 48353 1,2,3,4,6,7,8-H 3,82e3 48353	pCDD 425 5.171e+
-			2.15e2 37.23 3271	37.85 38.54	38.82 38.99
0-4	0 36.40 36.60 36	.80 37.00	37.20 37.40	7.60 37.80 38.00 38.20 38.40 38.60	38.80 39.00 39.20 39.40 39.60 39.80 40.0
C-1,2,3,4,6 , 0429R2_1	,7,8-HpCDD				F4:Voltage SIR
00 %				13C-1,2,3,4,6,7,8-HpCDD 38.35 4.20e5 5069159	435 5.077e+
0429R2 1					F4:Voltage SIR
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0	0 36.40 36.60 36	.80 37.00	37.20 37.40	7.60 37.80 38.00 38.20 38.40 38.60	38.80 39.00 39.20 39.40 39.60 39.80 40.0

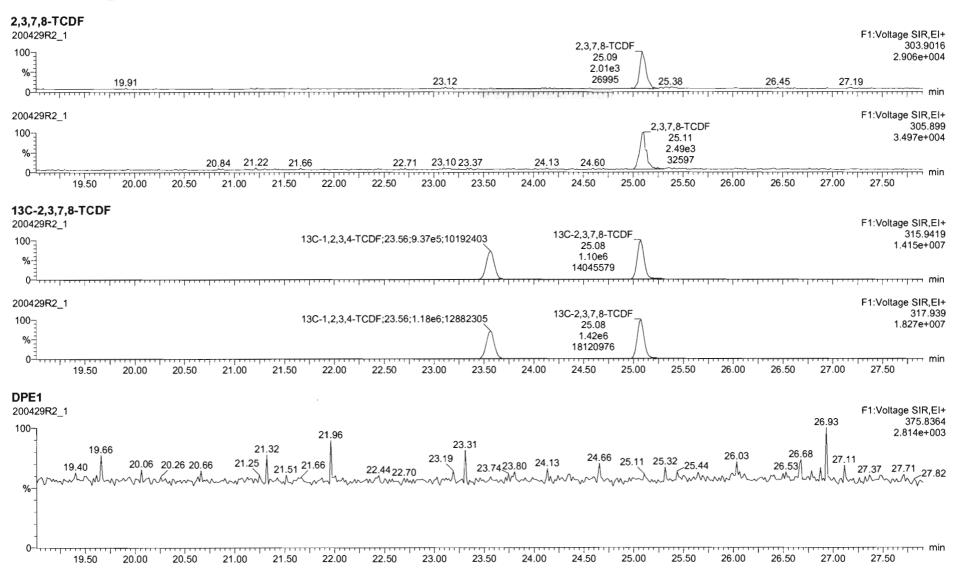


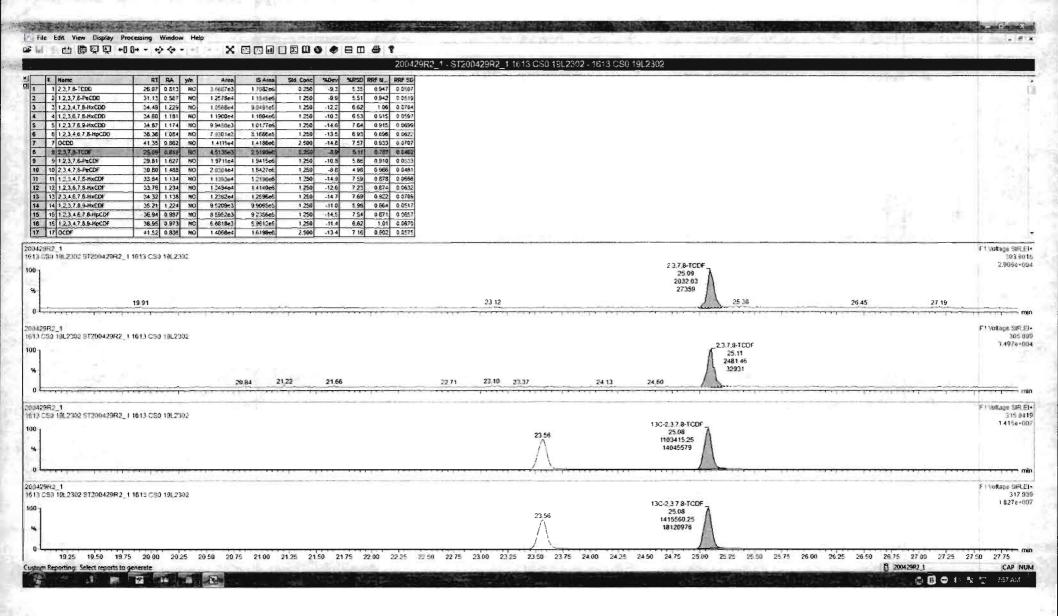
Quantify Sam Vista Analytica		Page 6 of 78
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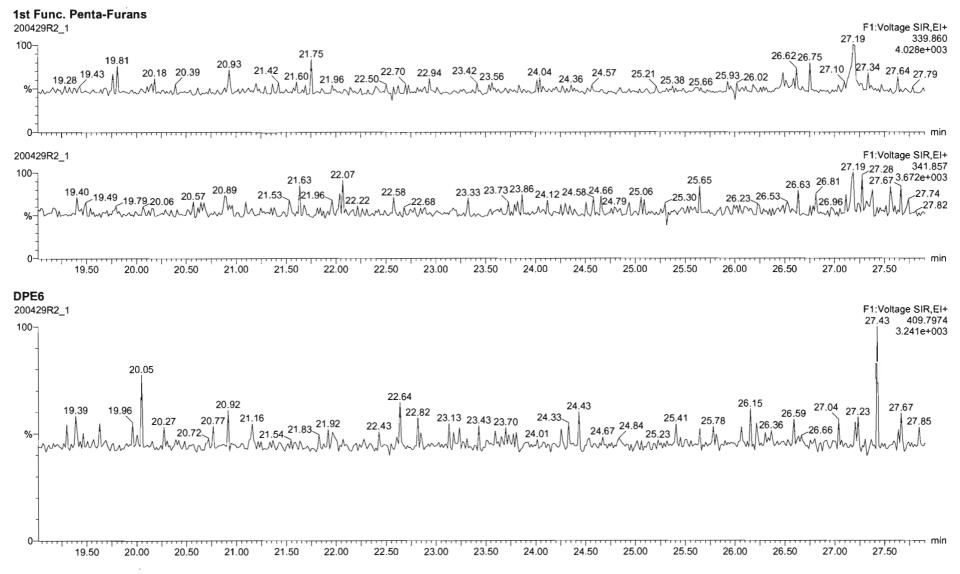


Quantify Sam Vista Analytica		Page 7 of 78
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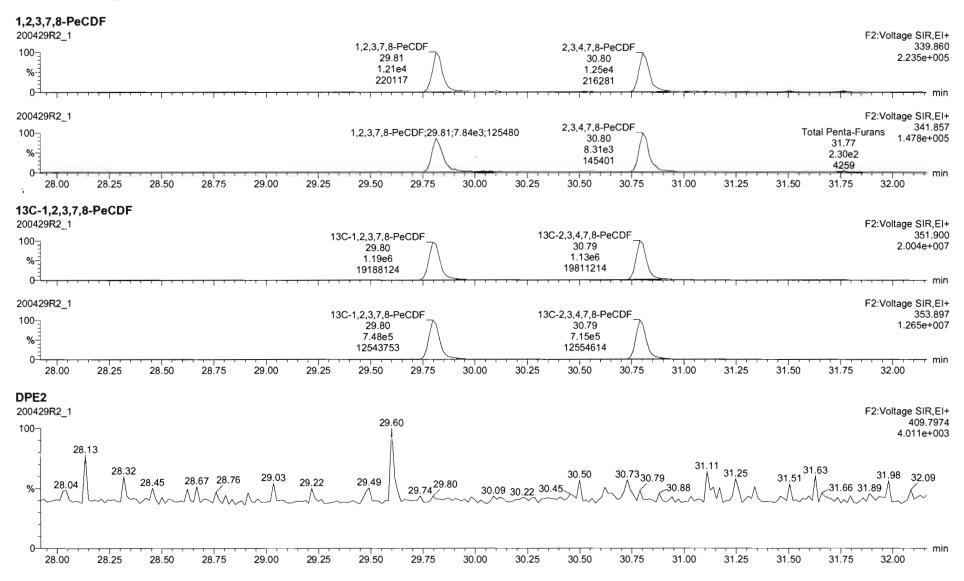


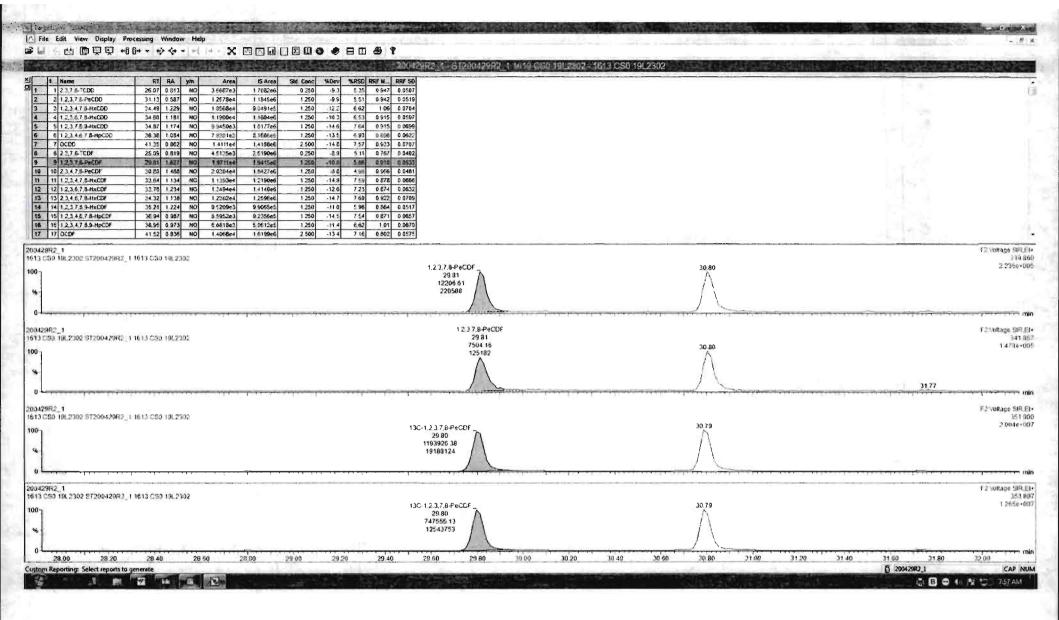


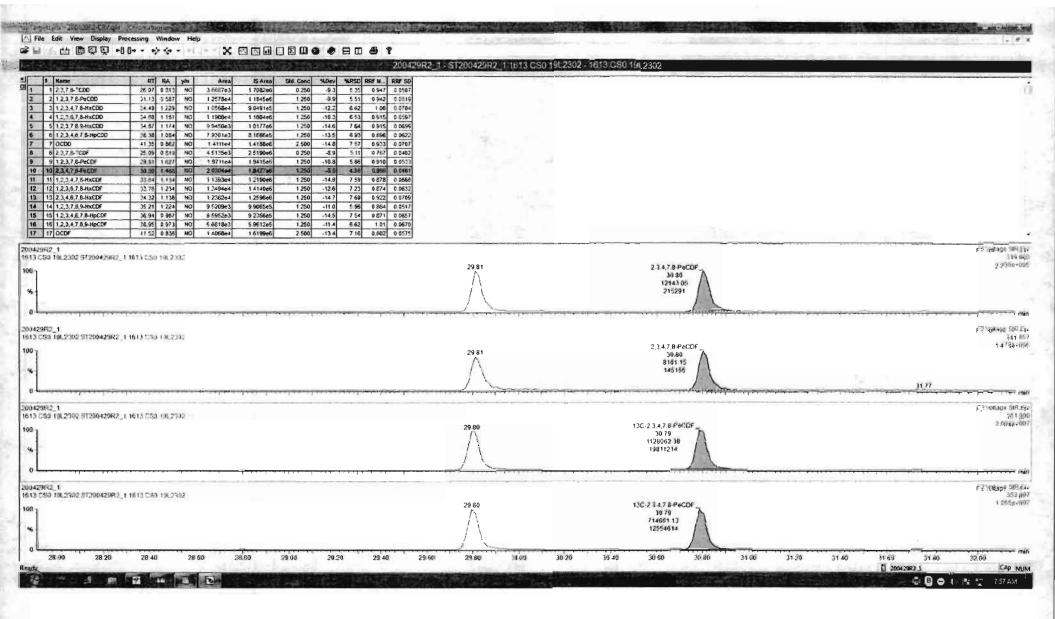
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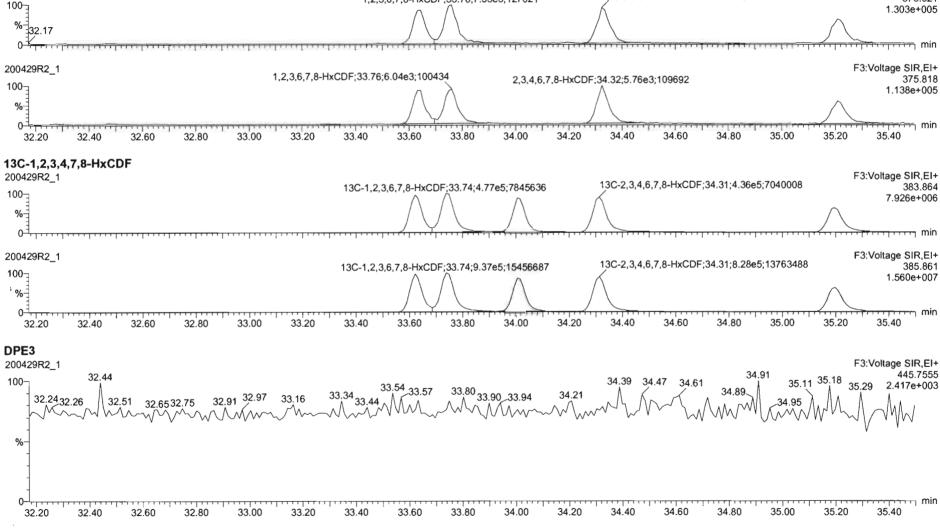
Quantify Sam Vista Analytica		Page 9 of 78
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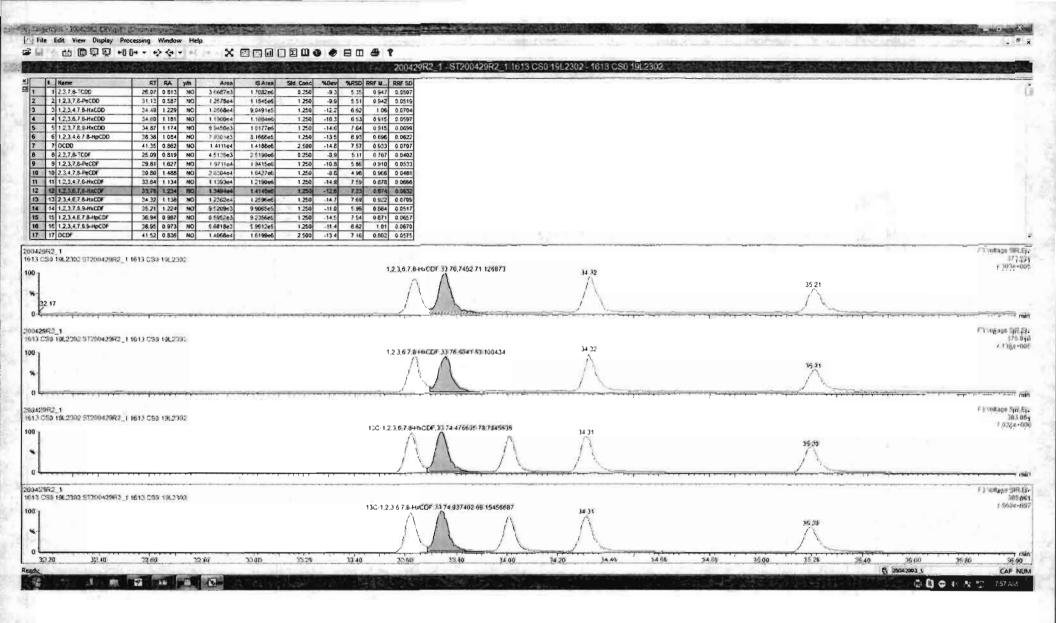


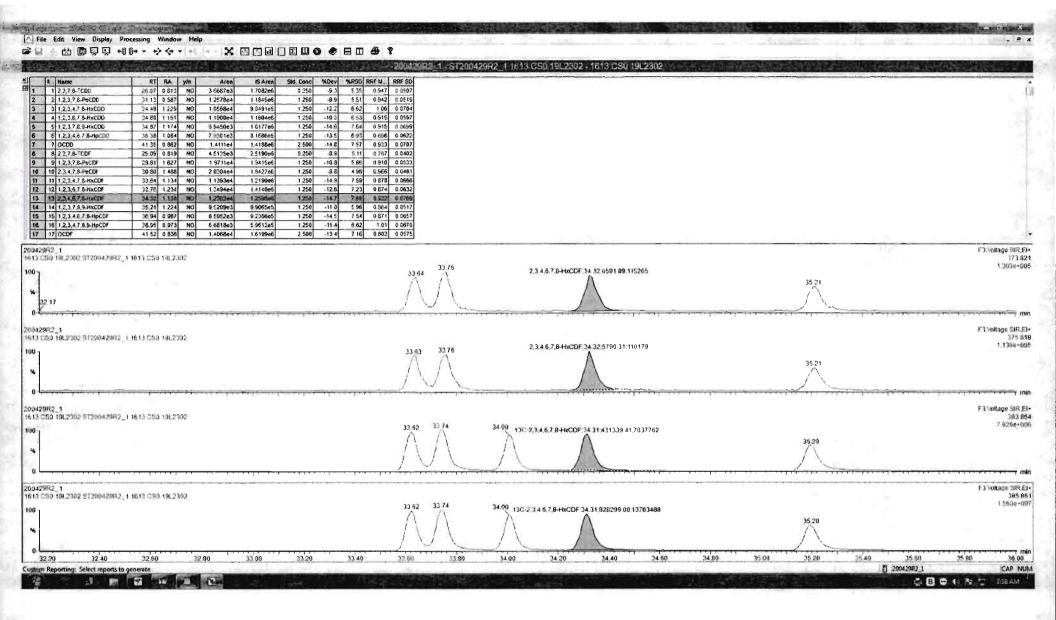




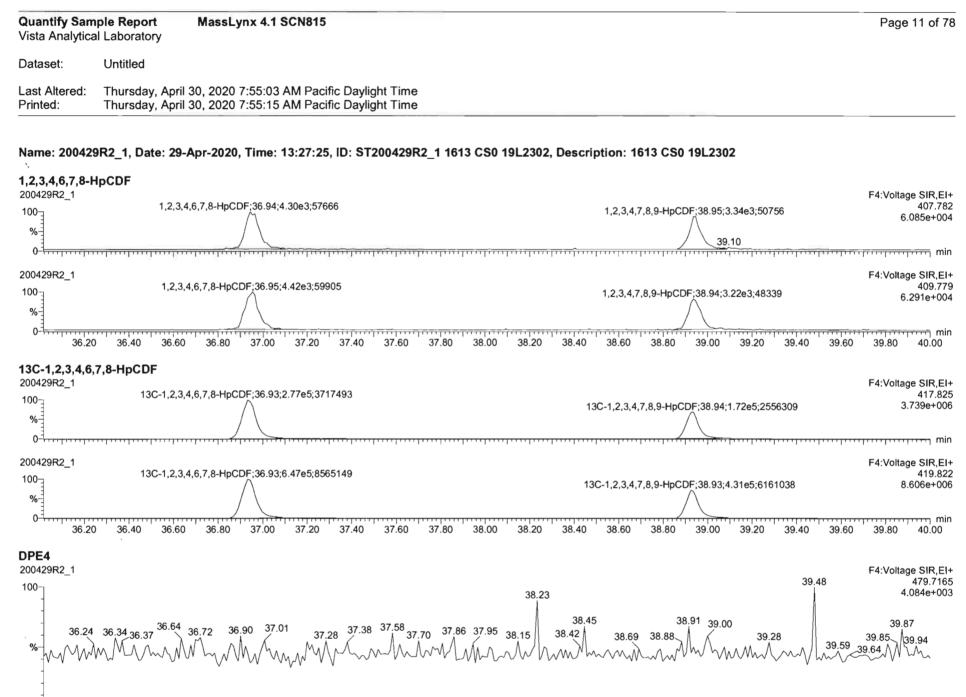
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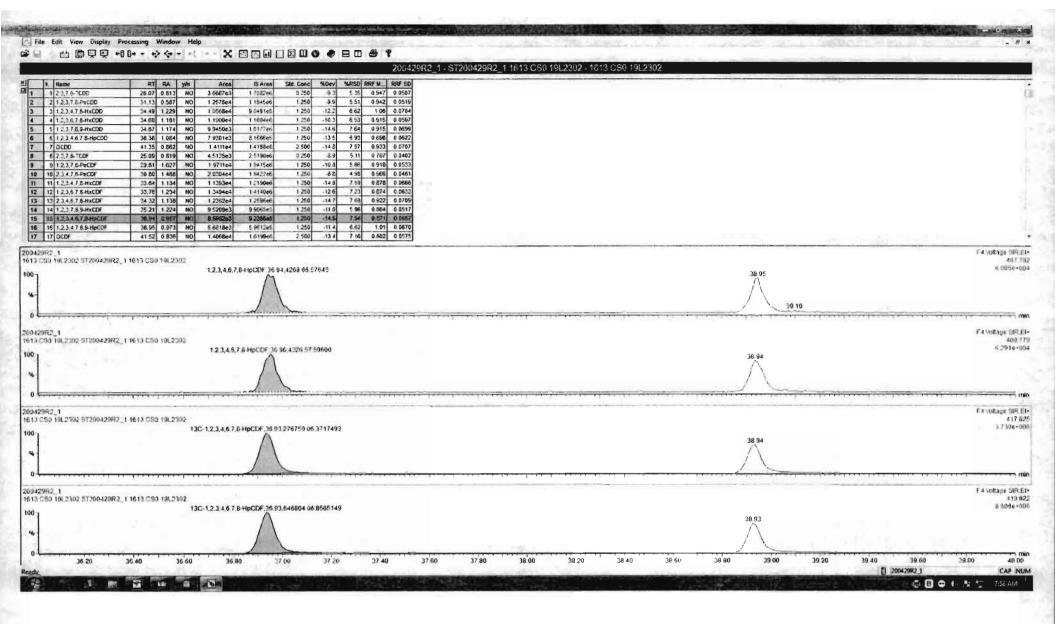


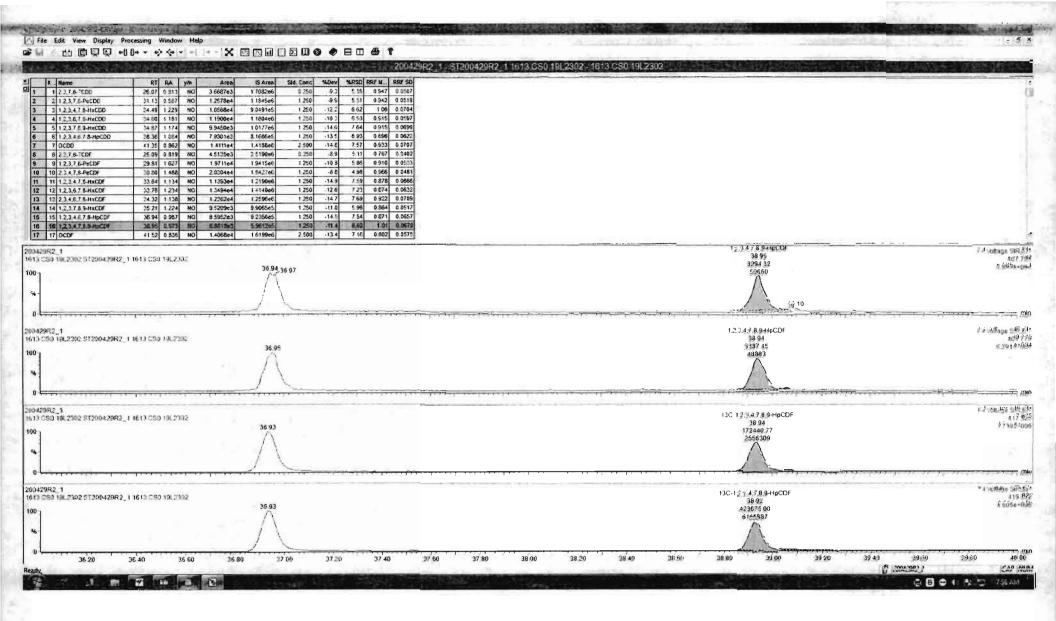




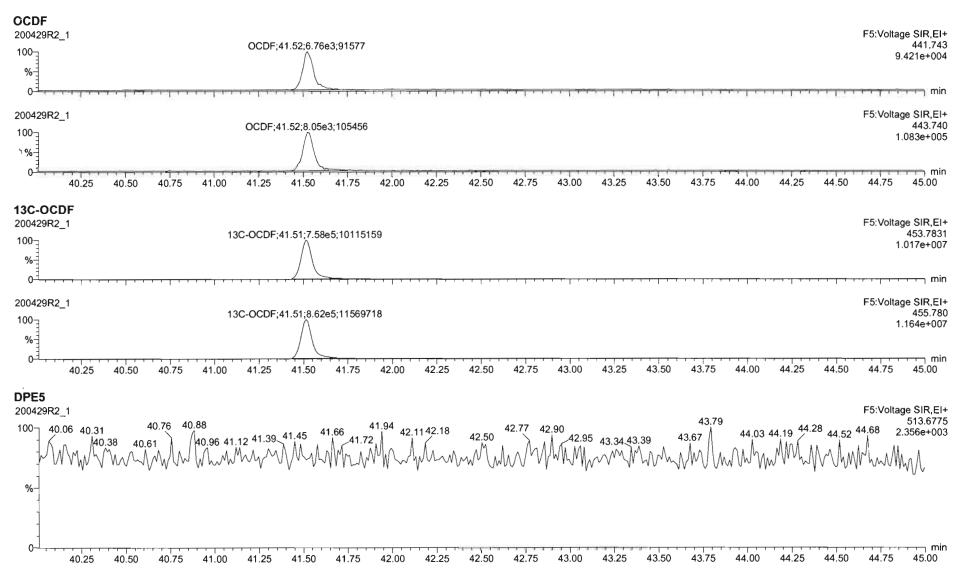
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12962_1 1 CG9 T9L2302 ST20042962_1 1613 CS0 T9L2302	3343 3376	34.32	1.2.3.7.8 9 HACDF 95.21 4281.07 64857	F3 56490 50 374 1730
12962_1 1 CEV 196.2202 ST200429R2_1 1613 CEO 196.2300 CEV 92_1 8 CEO 196.2302 ST200429R2_1 1613 CEO 196.2902	3343 3376 1362 3074 3400	34.32	1.2.3.7.8 9 HACDF 95.21 4281.07 64857	F 3 158 490 52 37 . 1786 F 3 158[(age 52 7 0256 7 0256

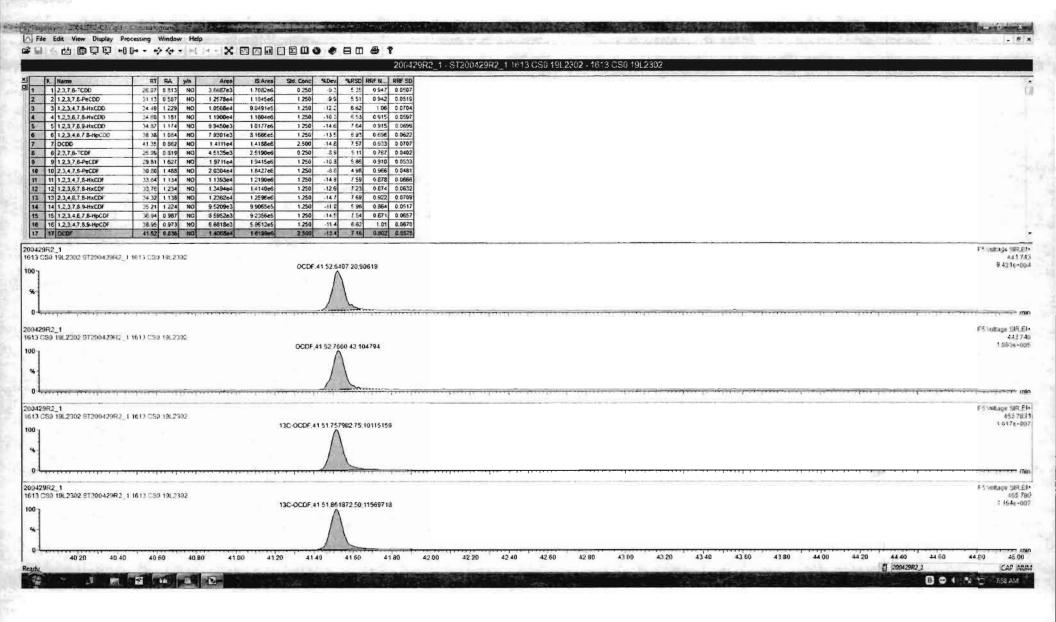




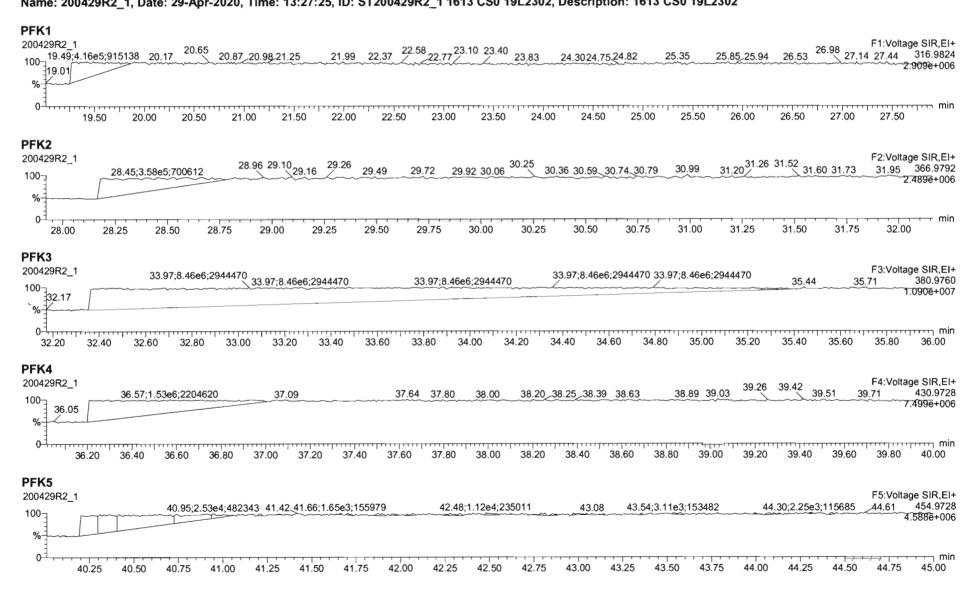


Quantify Sam Vista Analytica		Page 12 of 78
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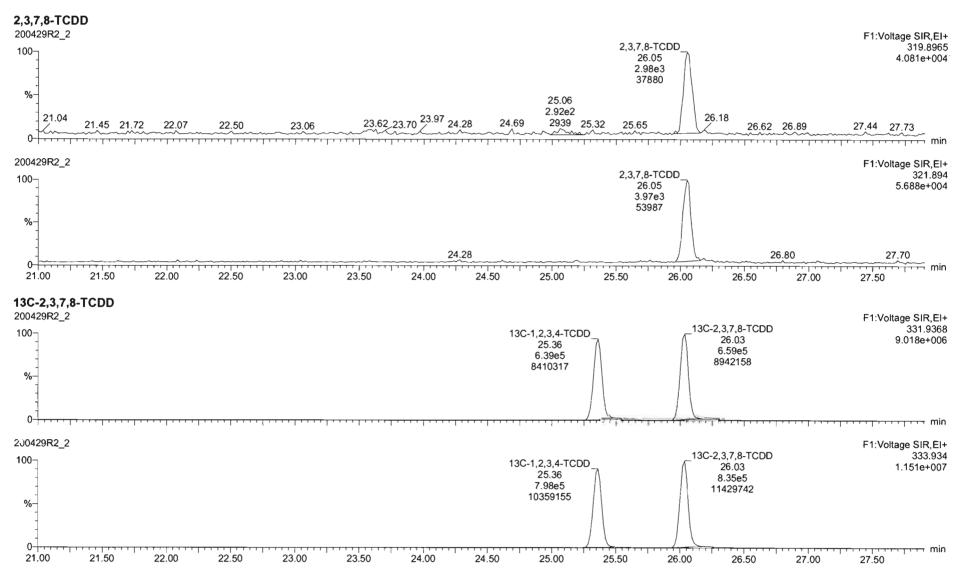


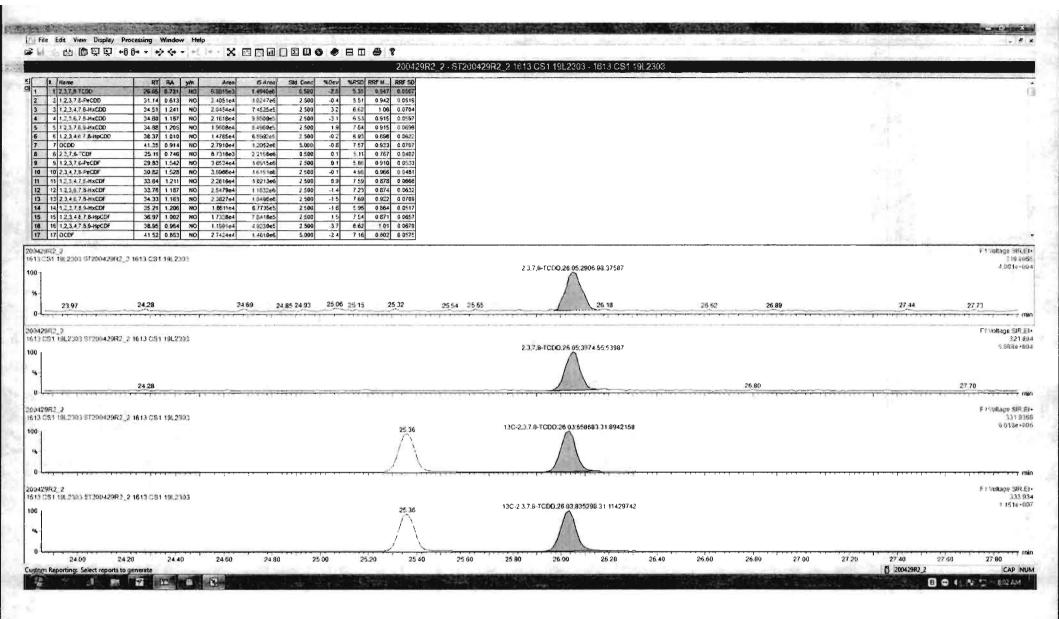


	Page 13 of 78
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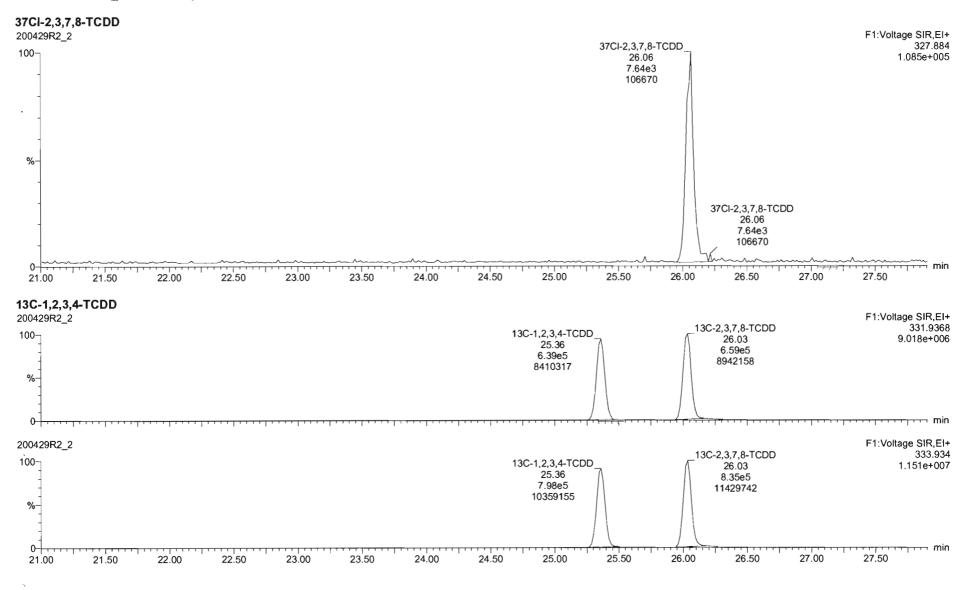


Quantify Sam Vista Analytica		Page 14 of 78
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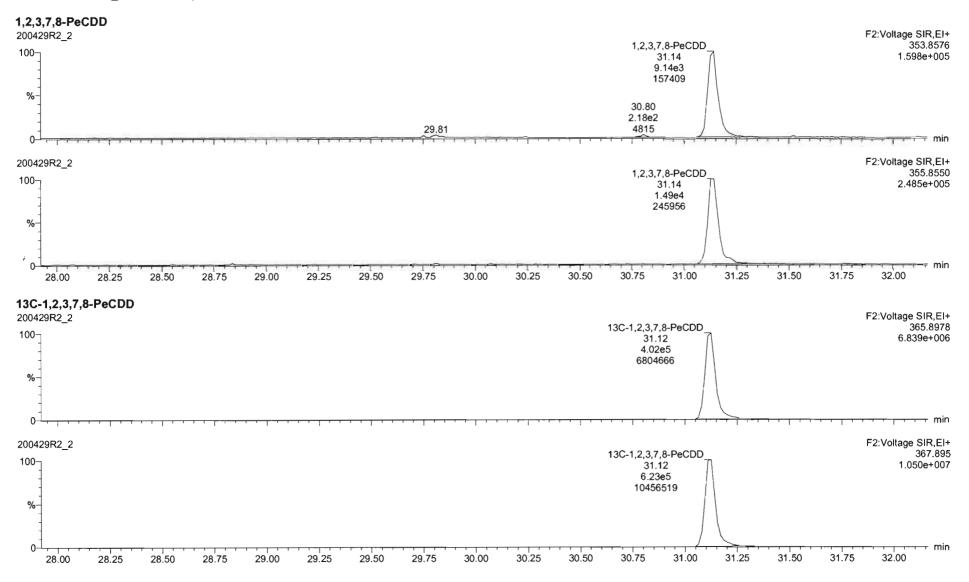


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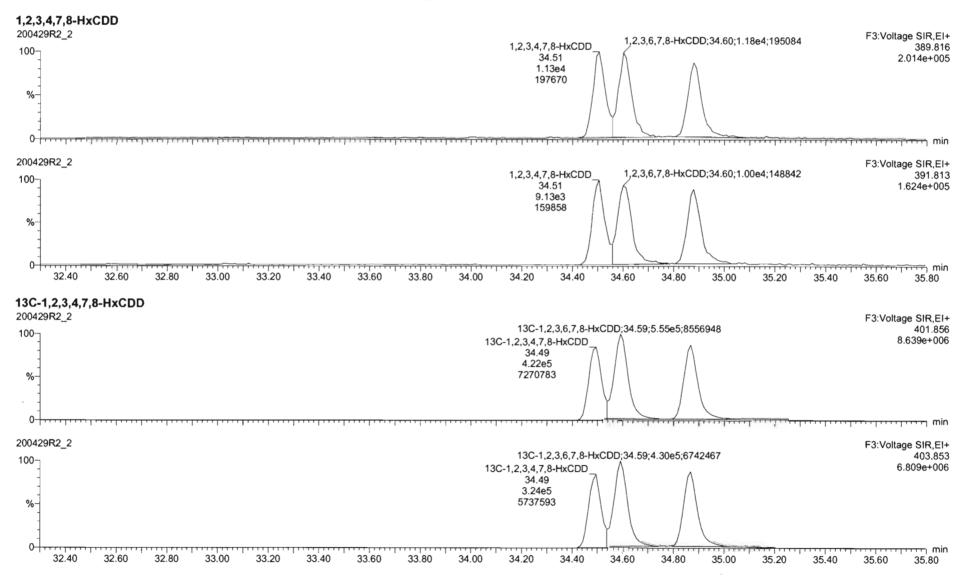


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Quantify Sam Vista Analytica		Page 16 of 78
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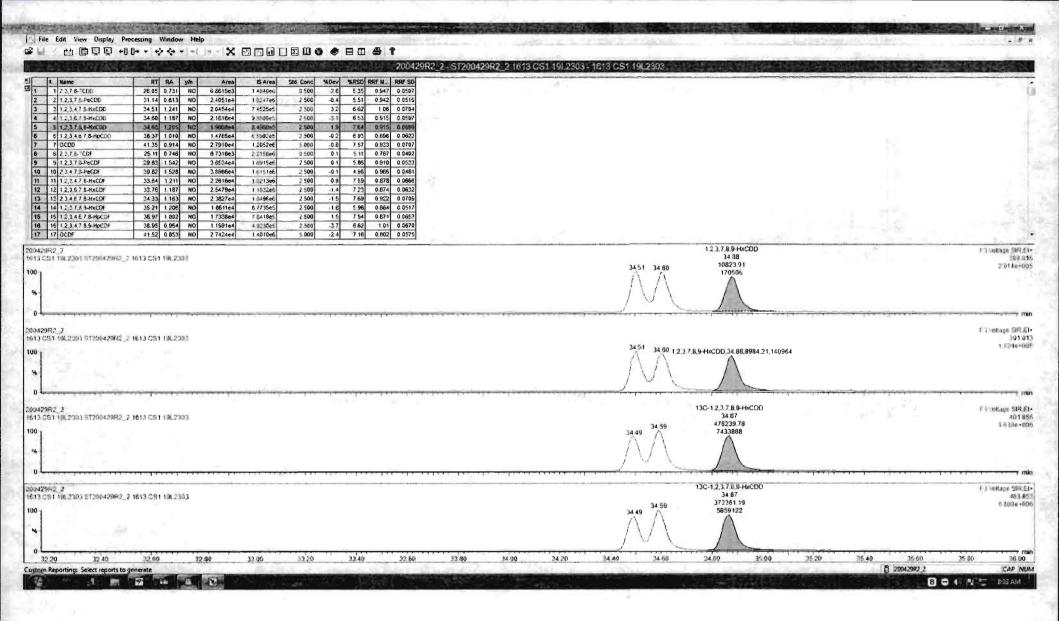


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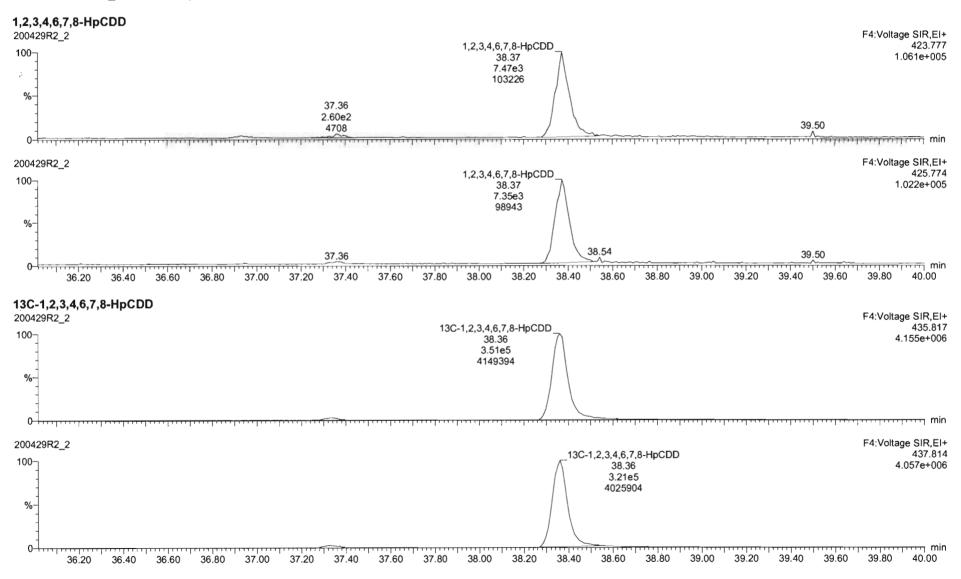


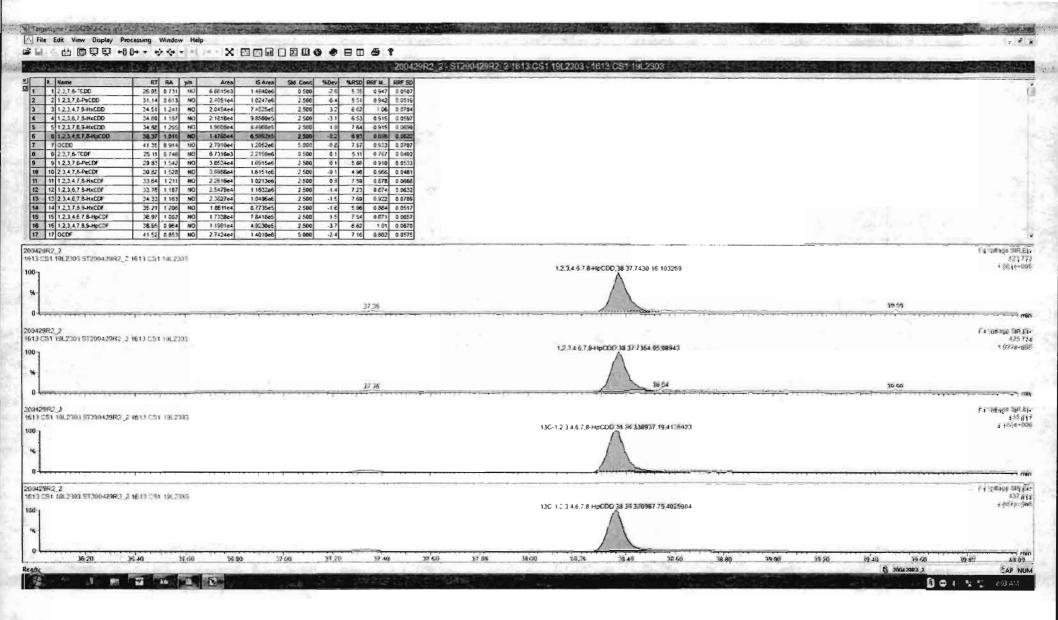
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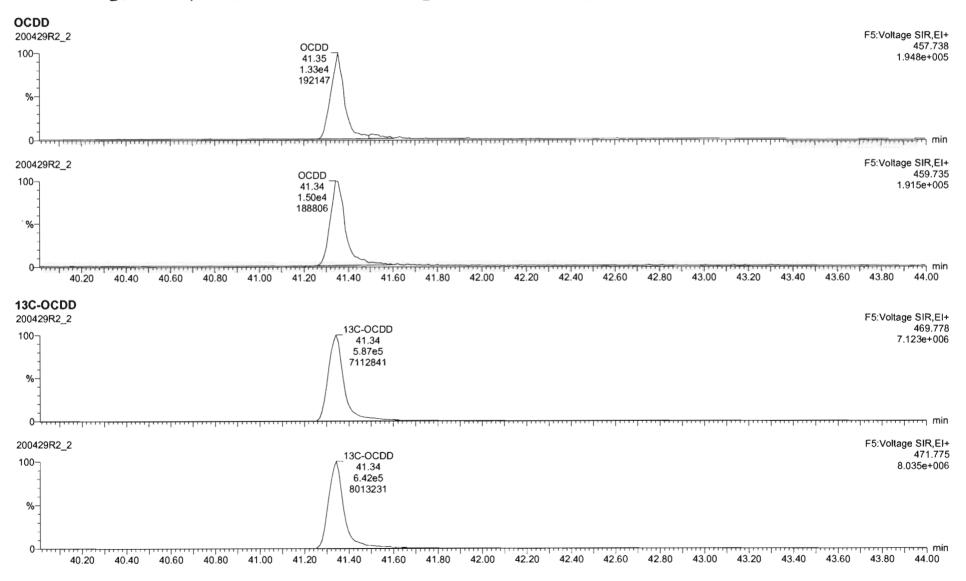


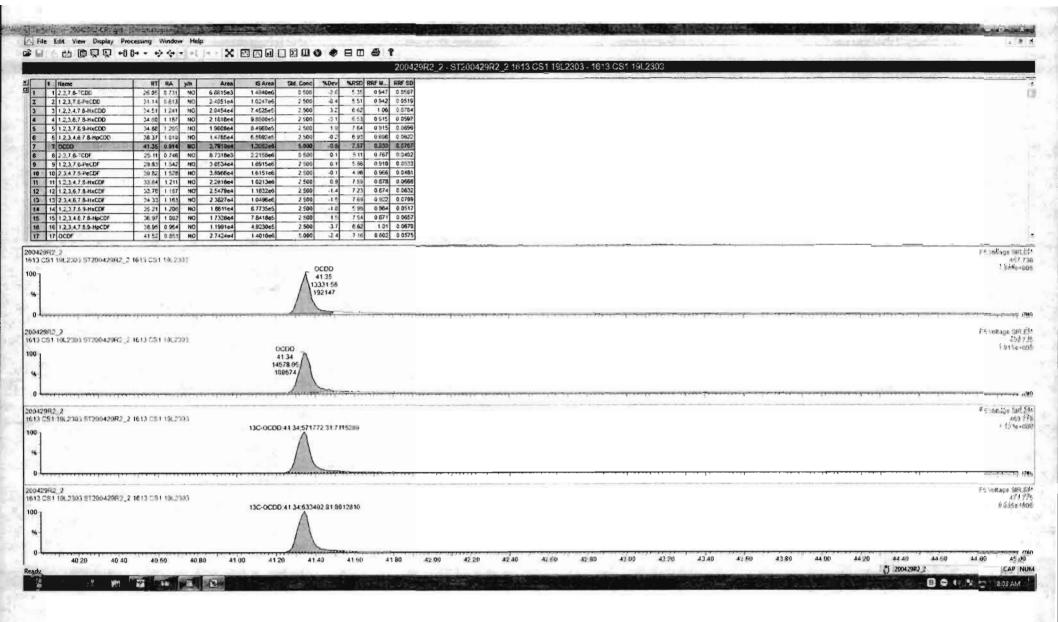
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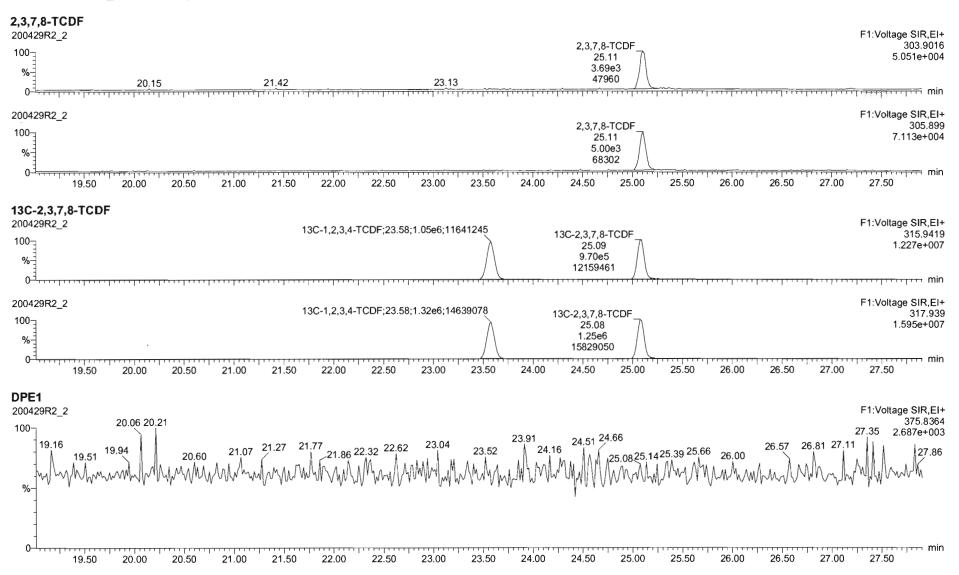


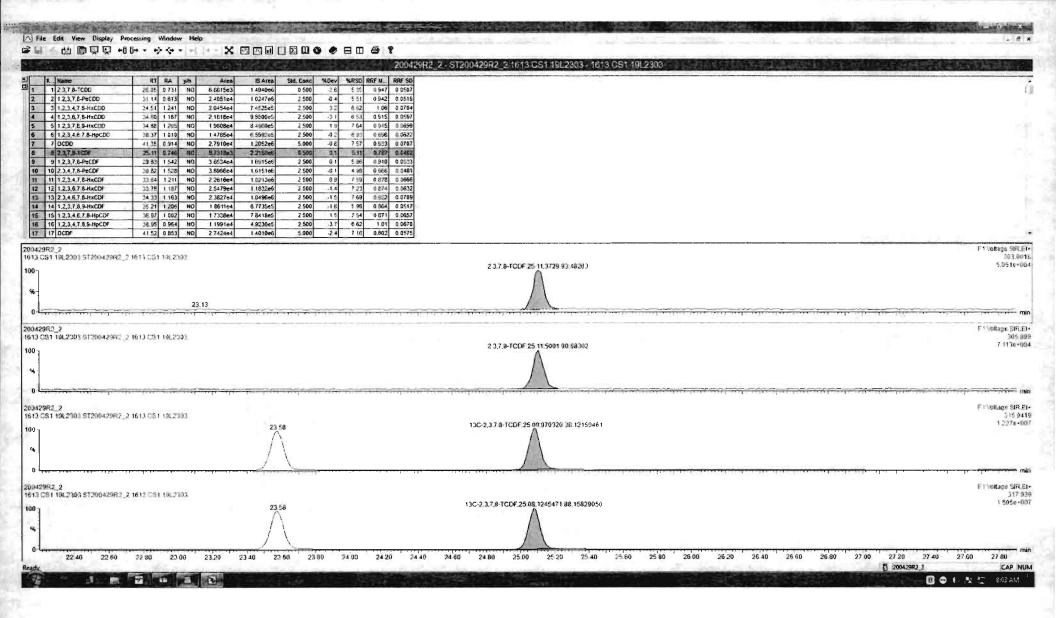
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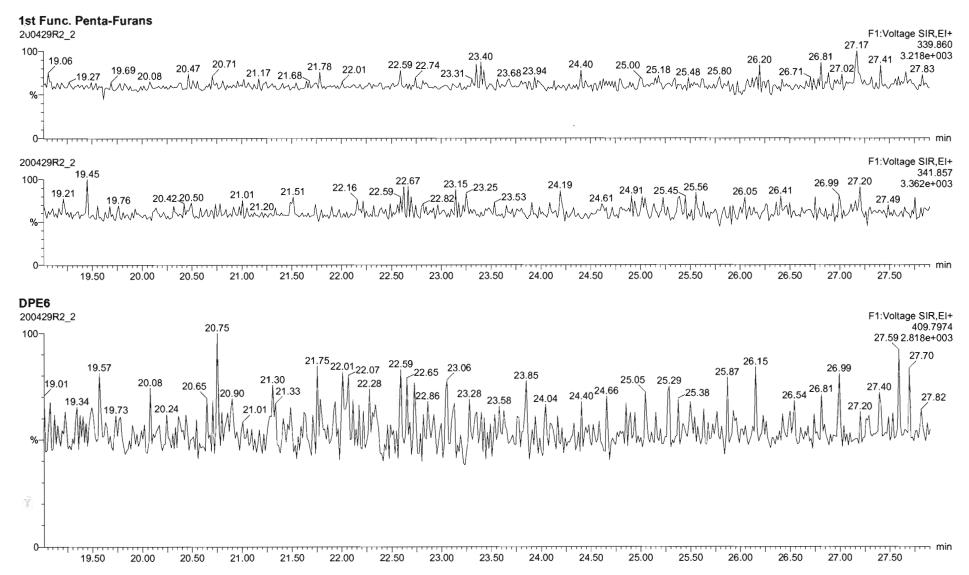


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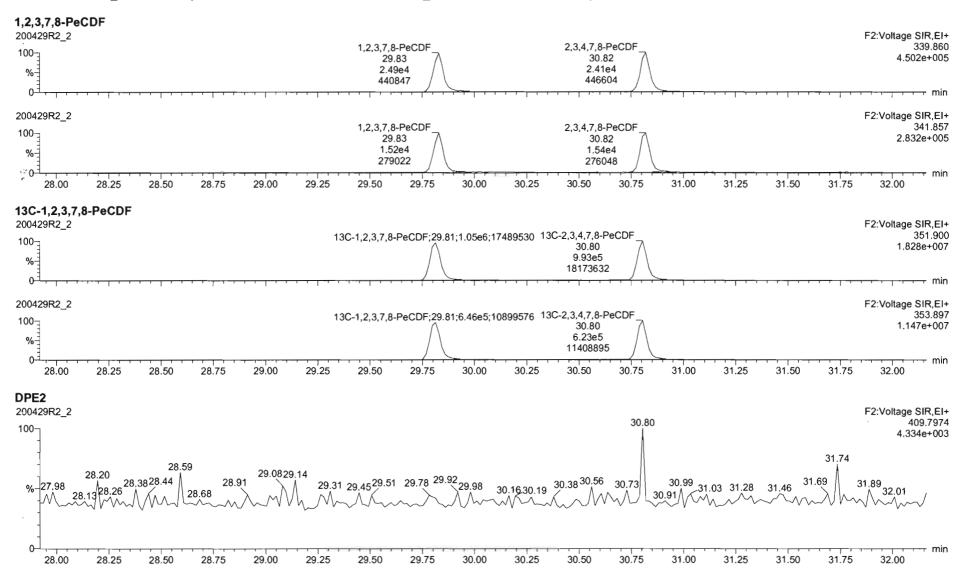


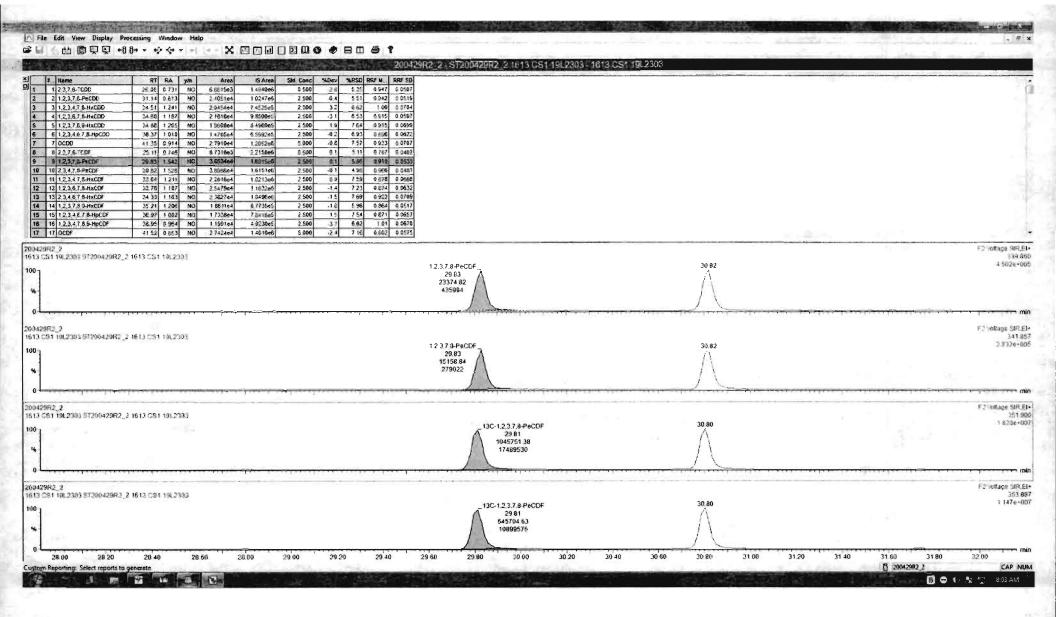


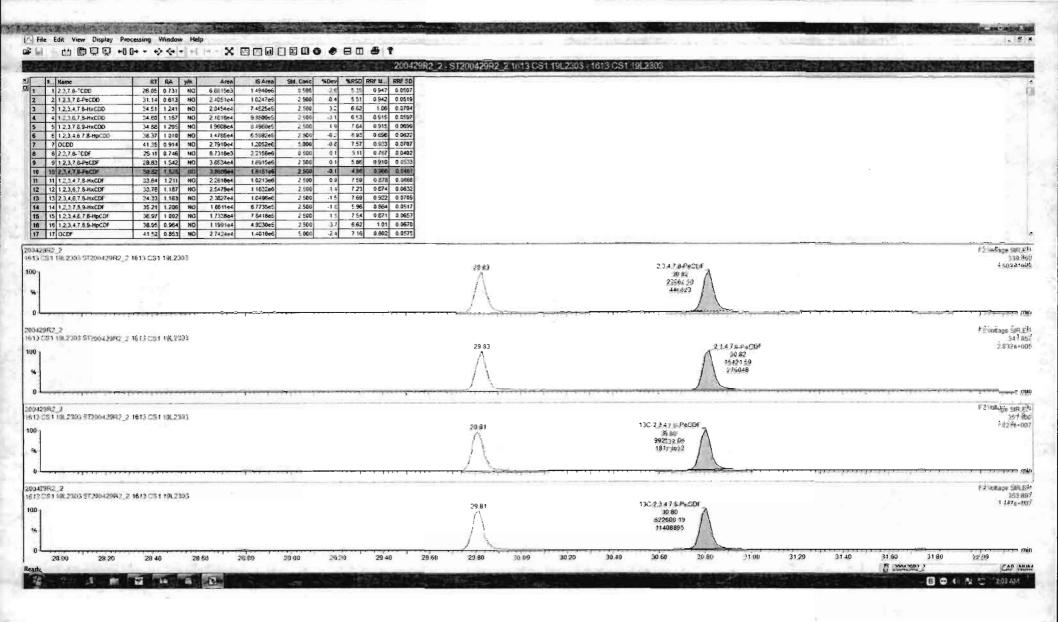
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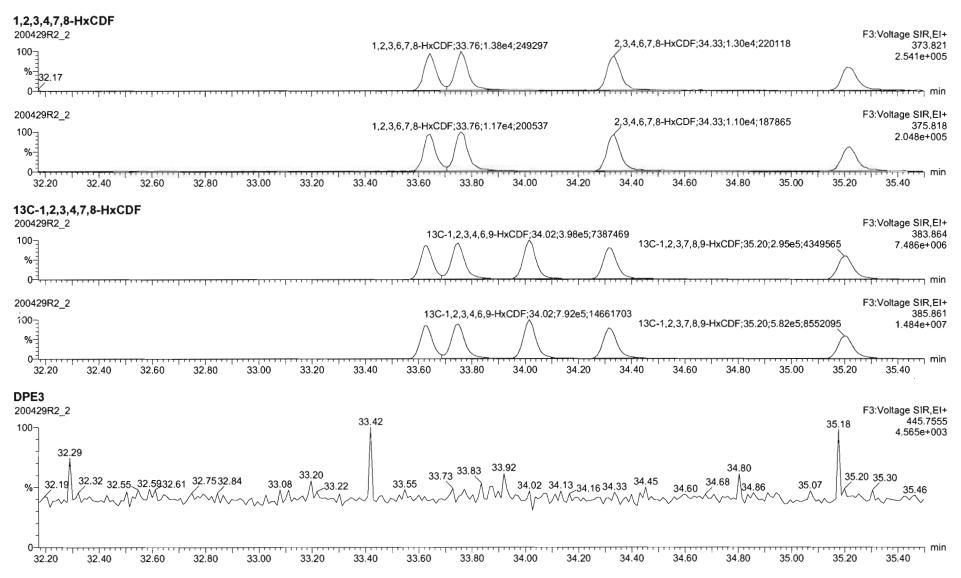
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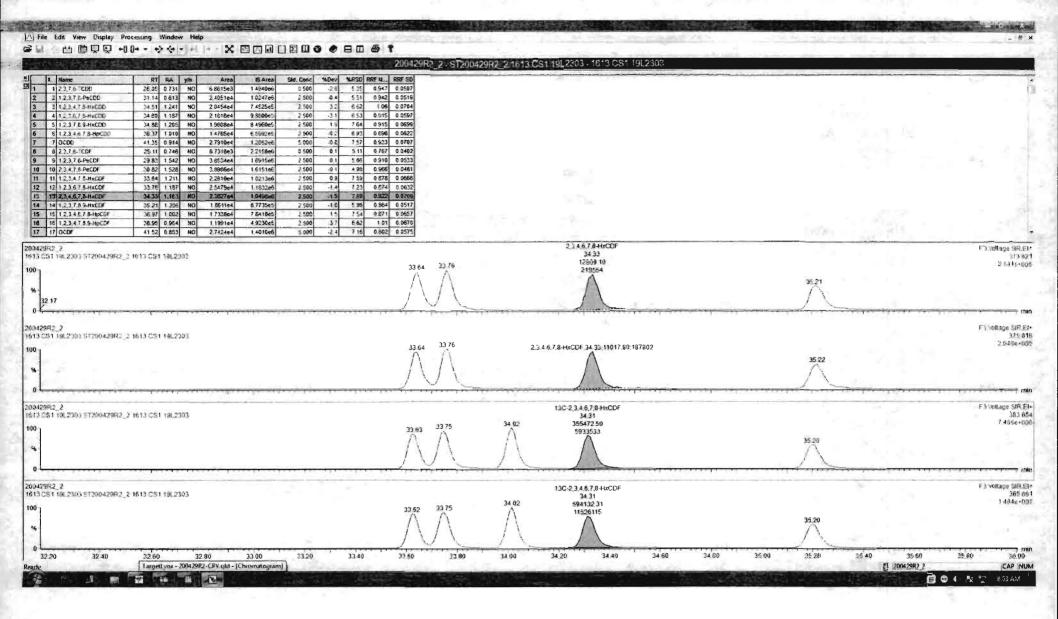






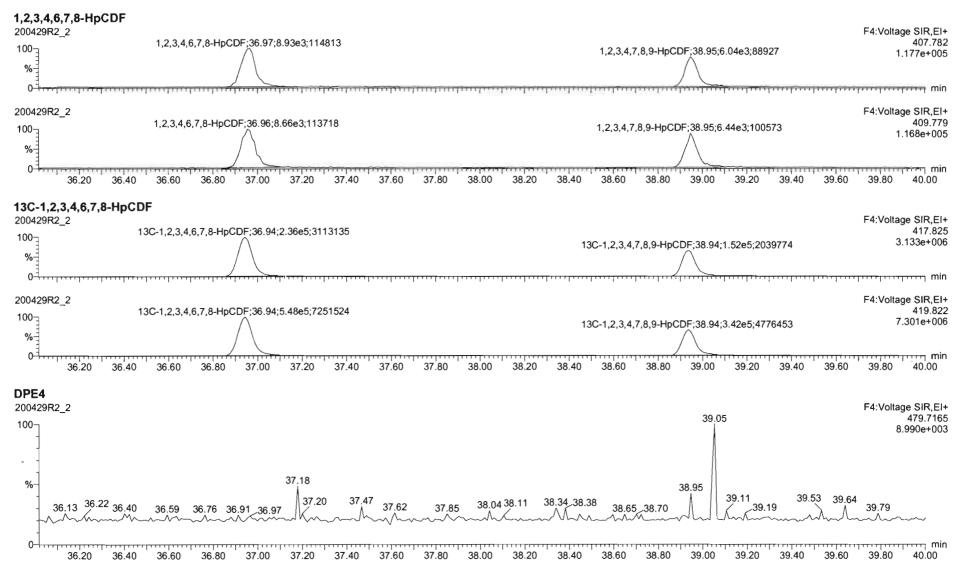
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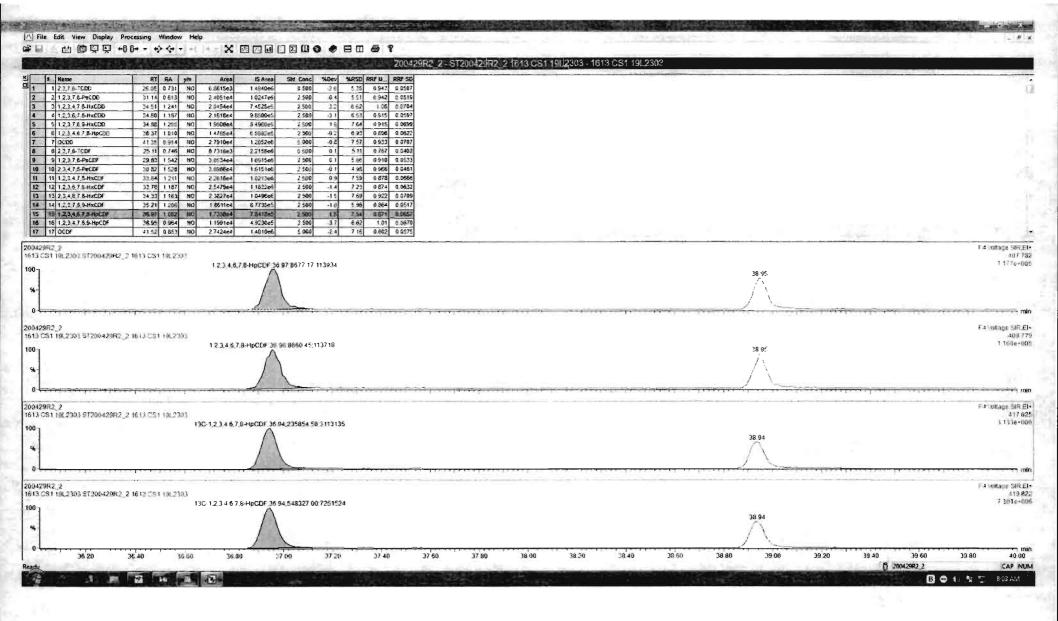


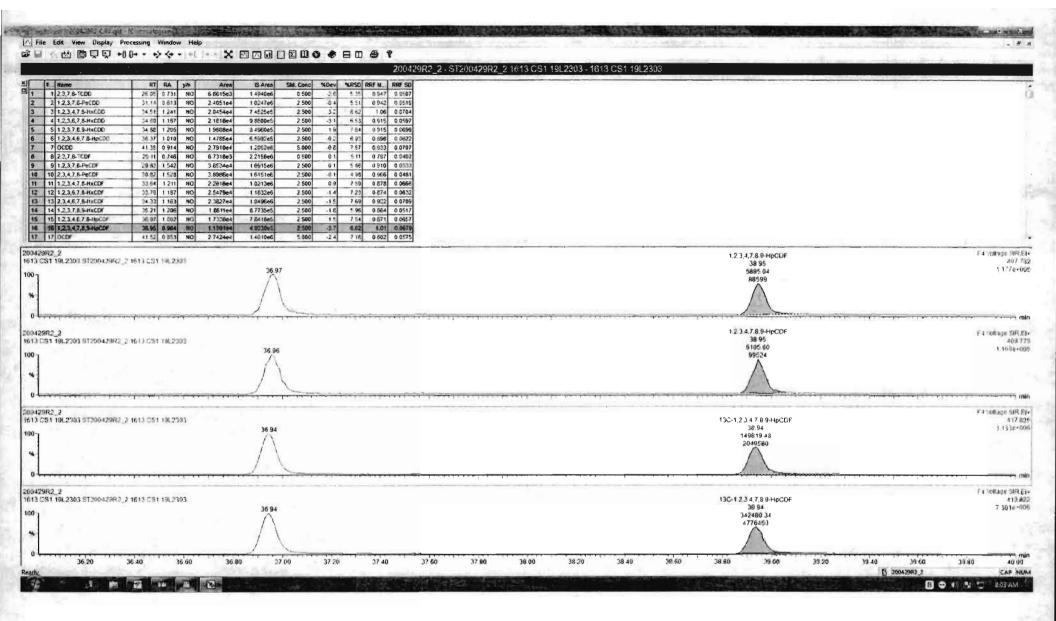


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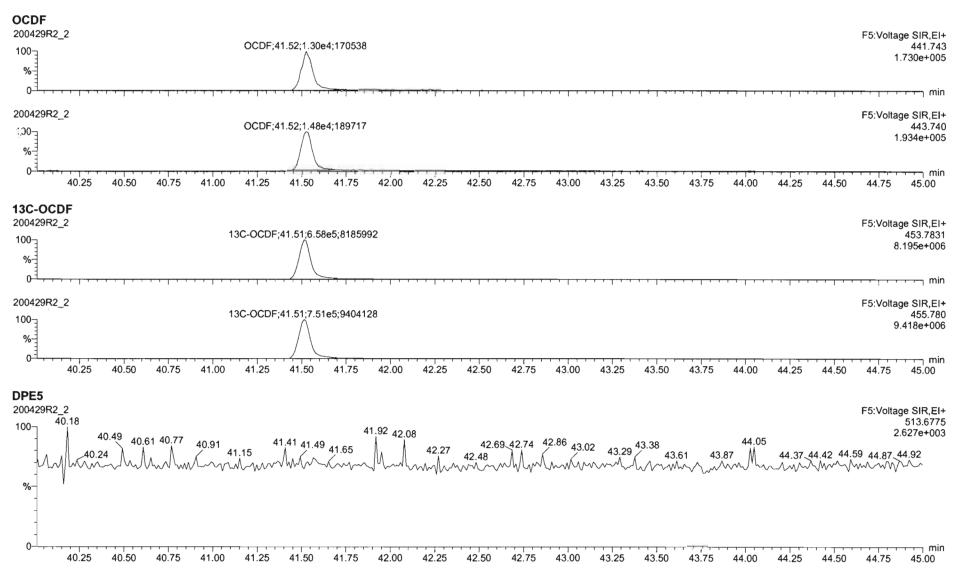
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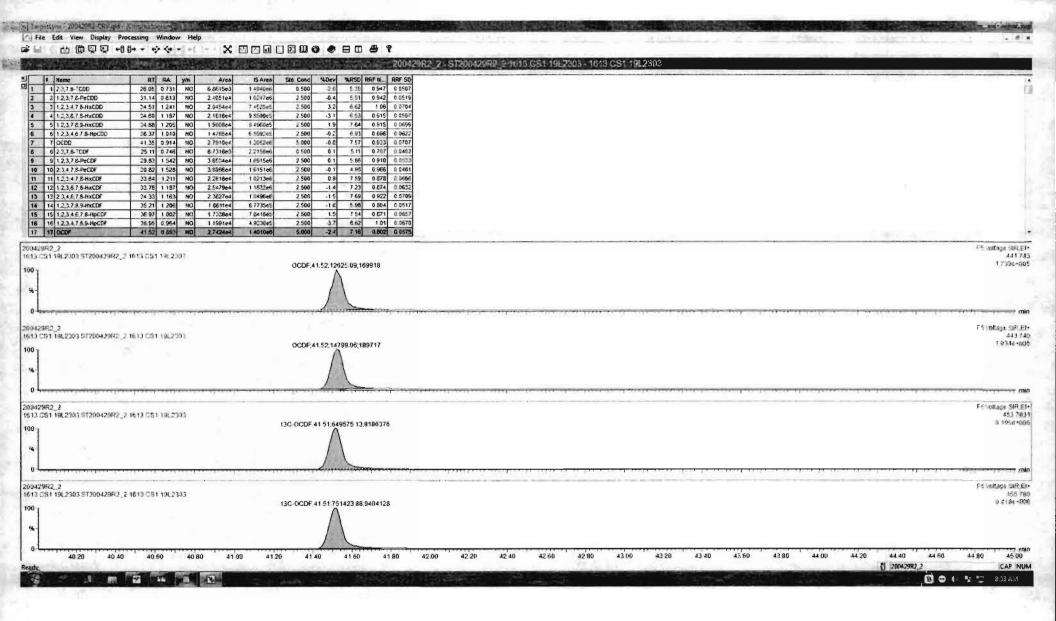




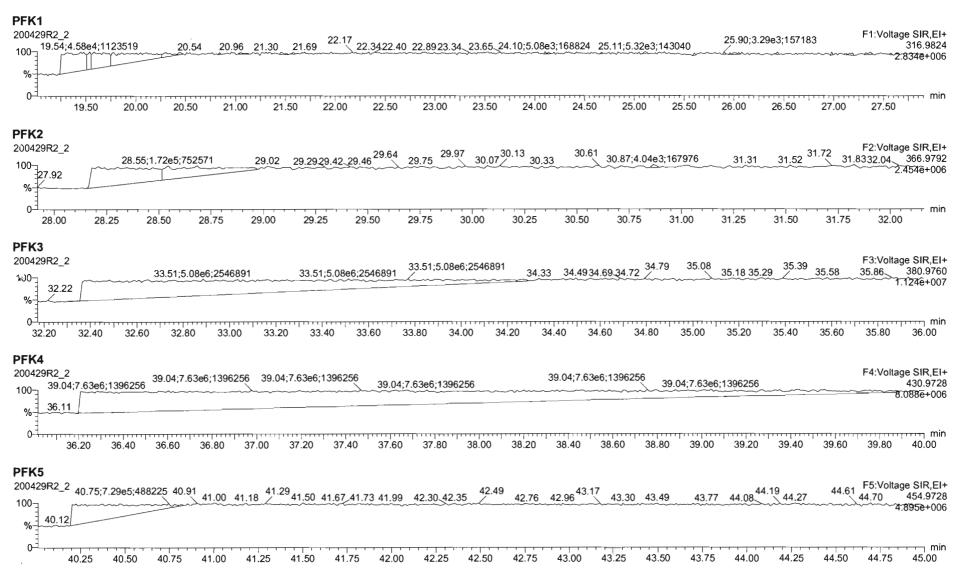


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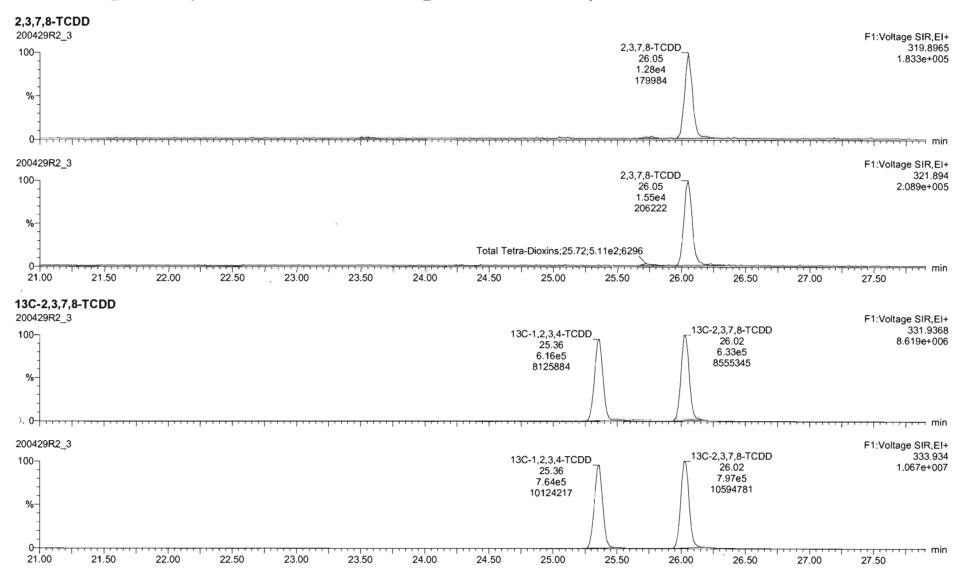


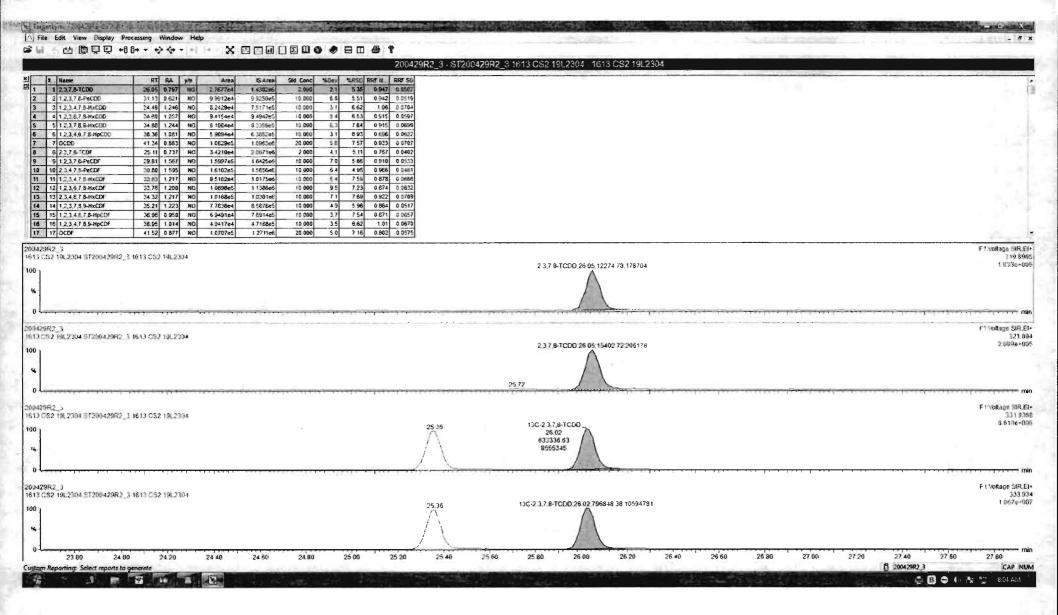


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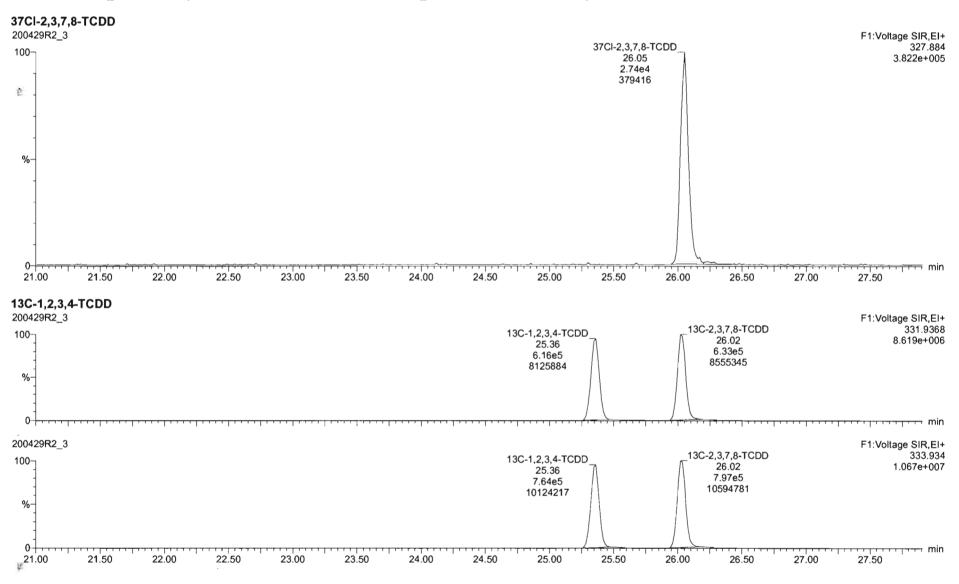


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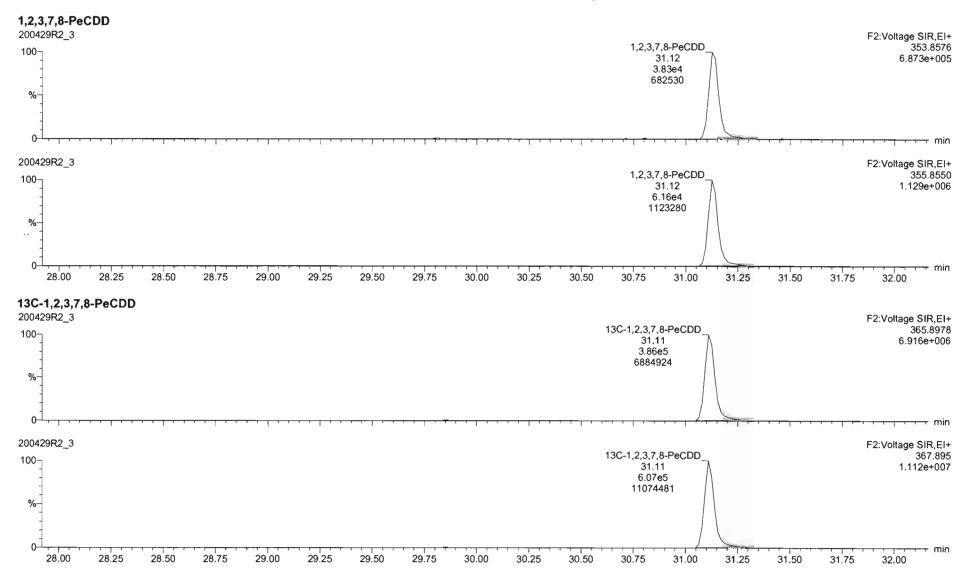




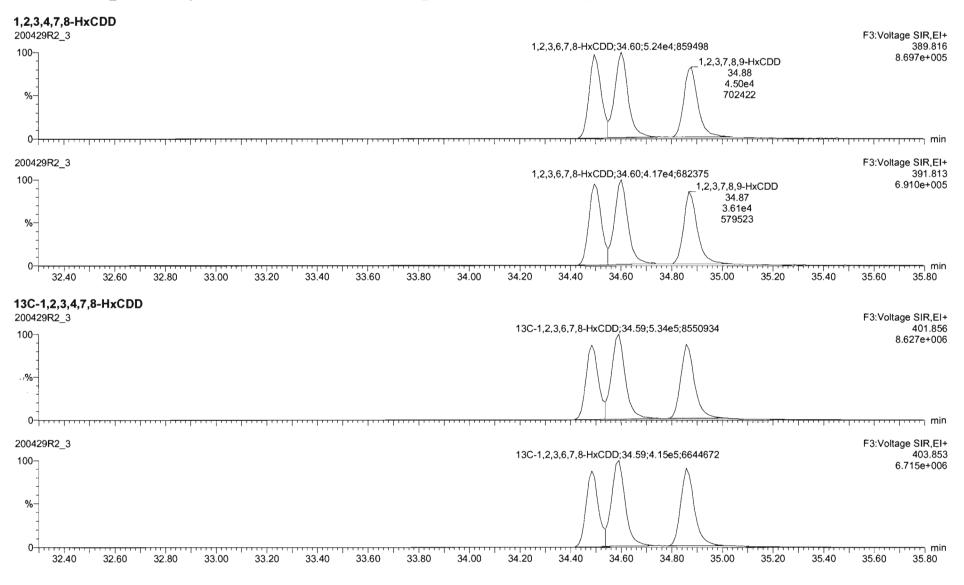
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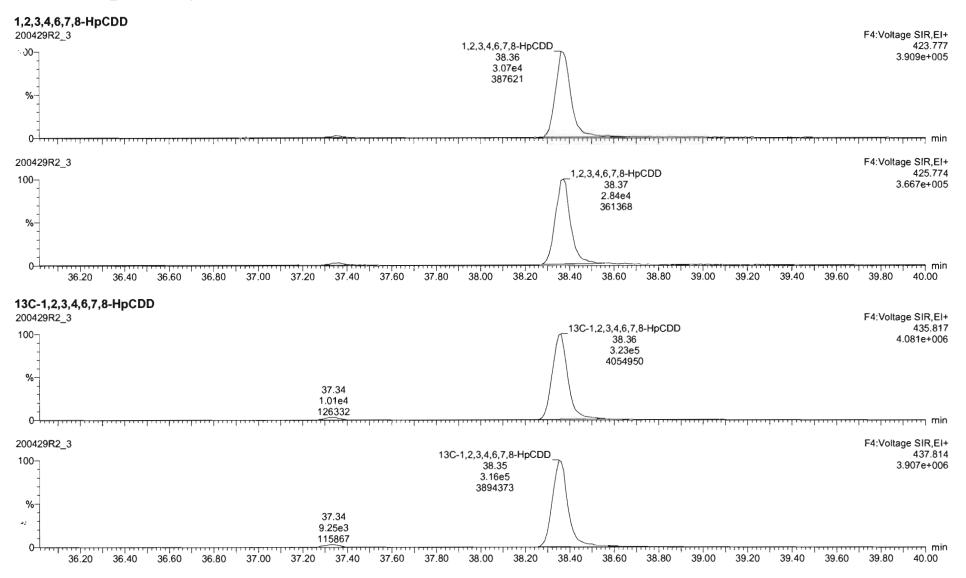
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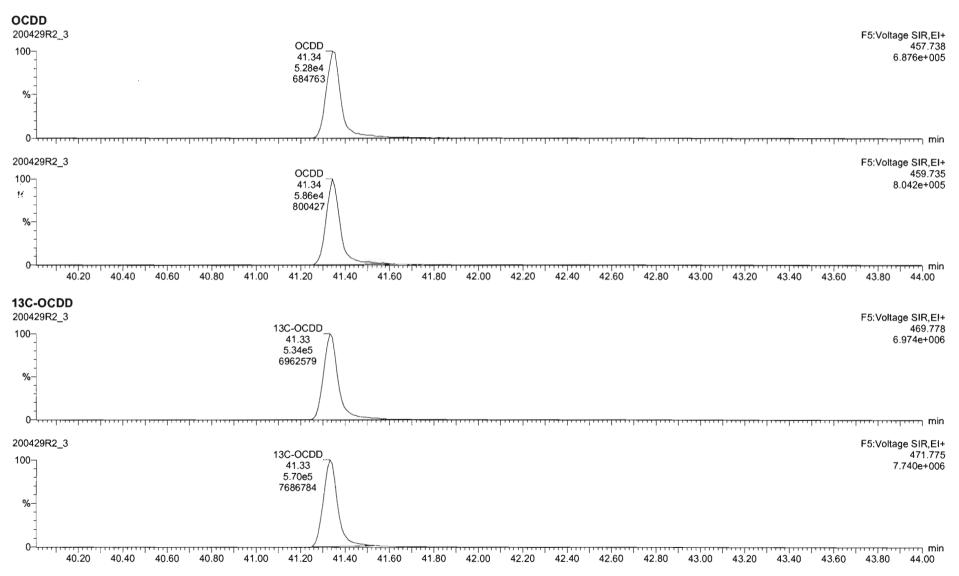


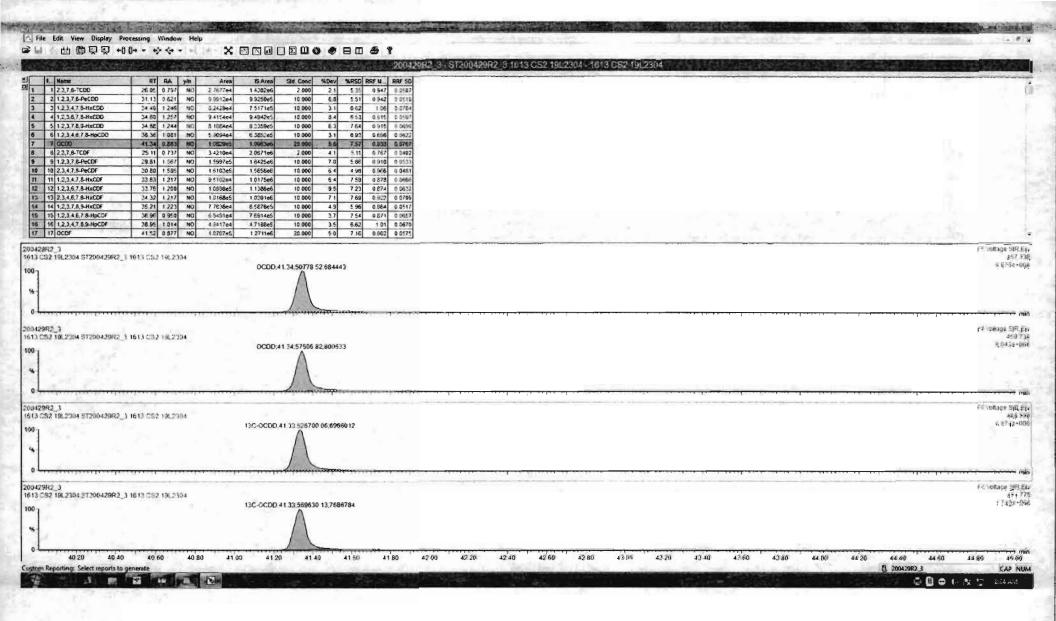
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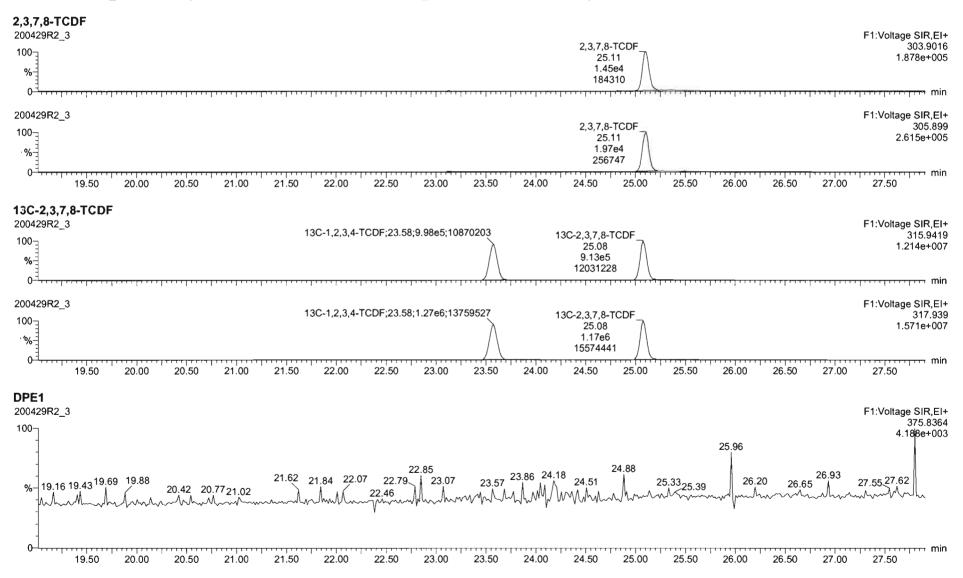
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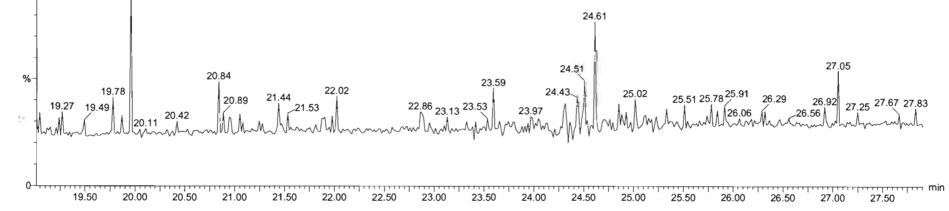




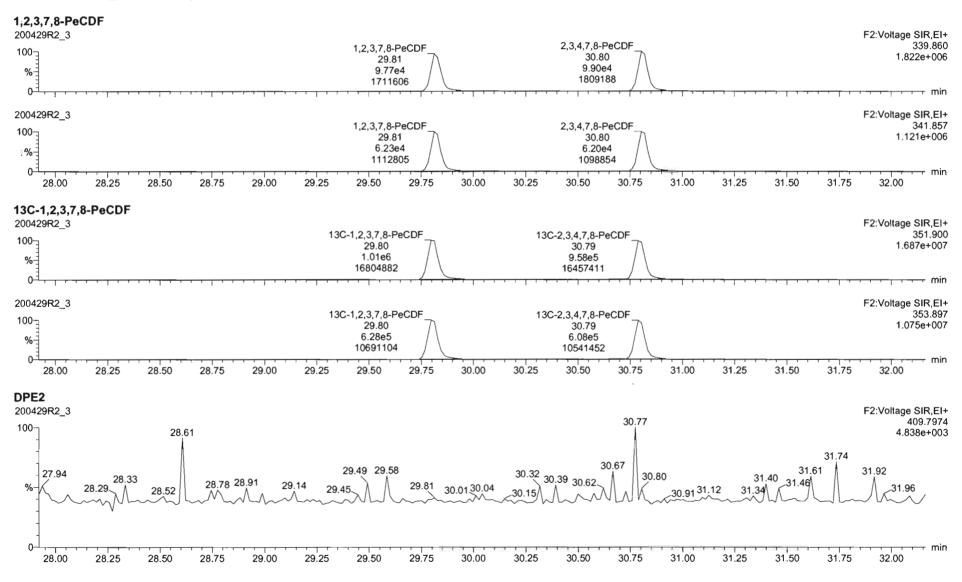
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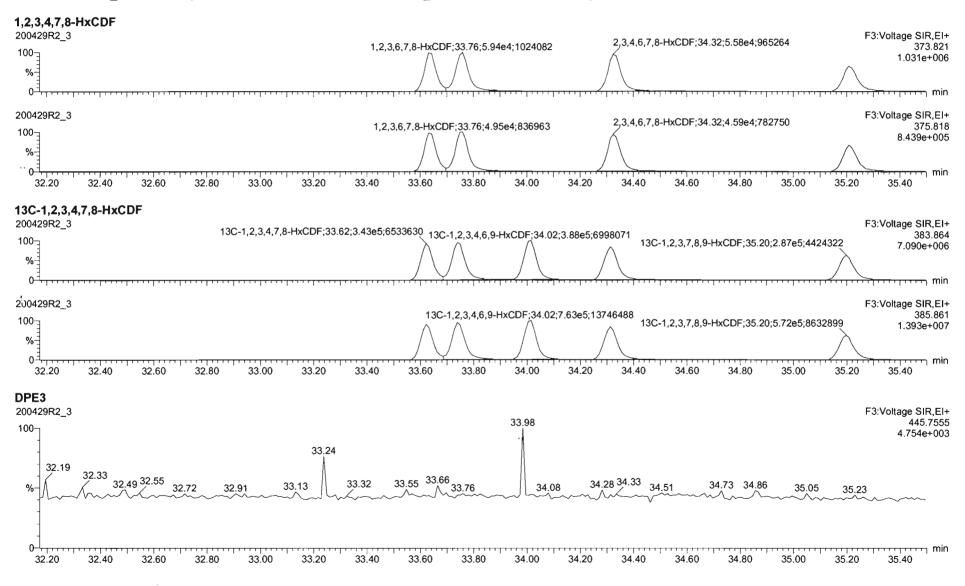
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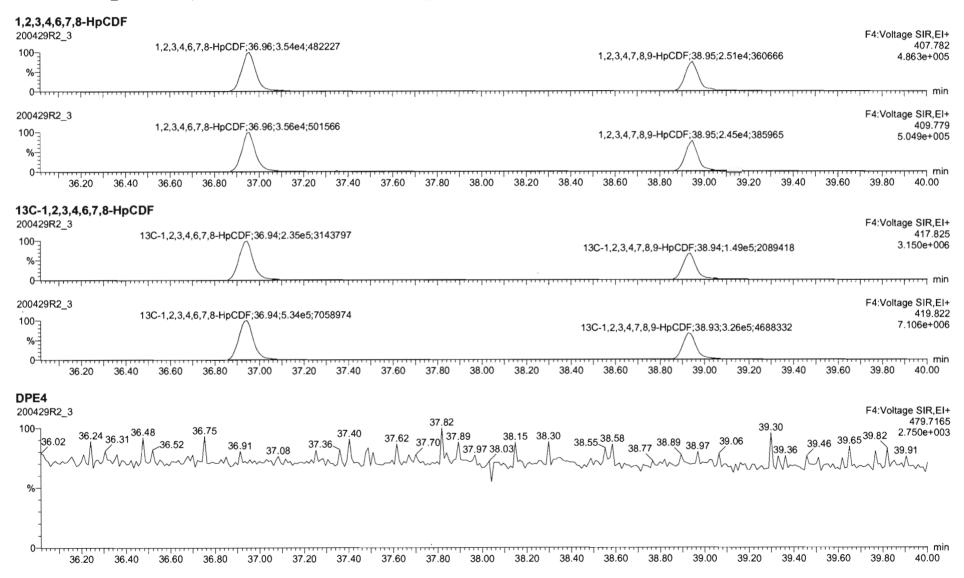
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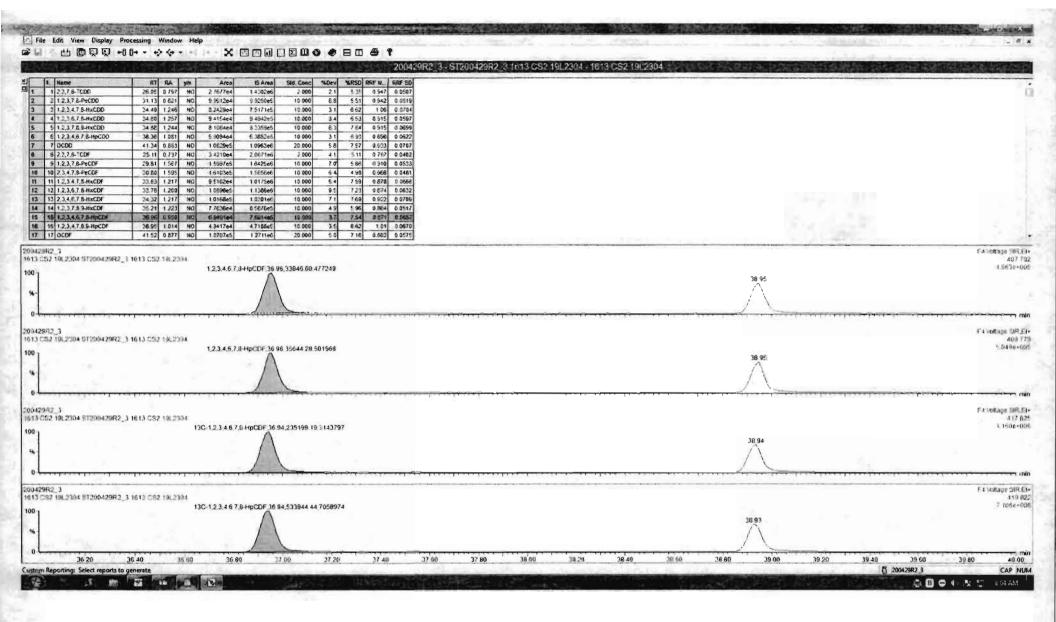


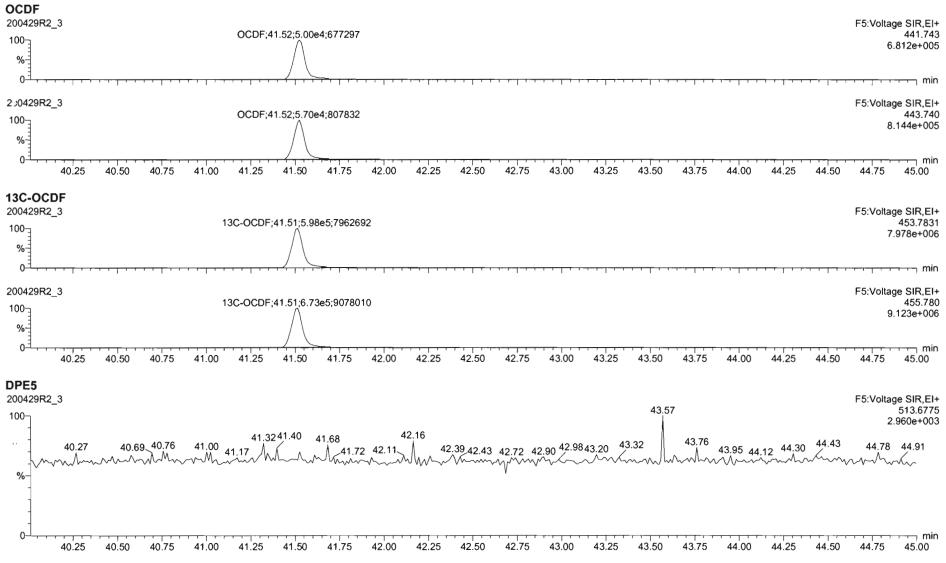
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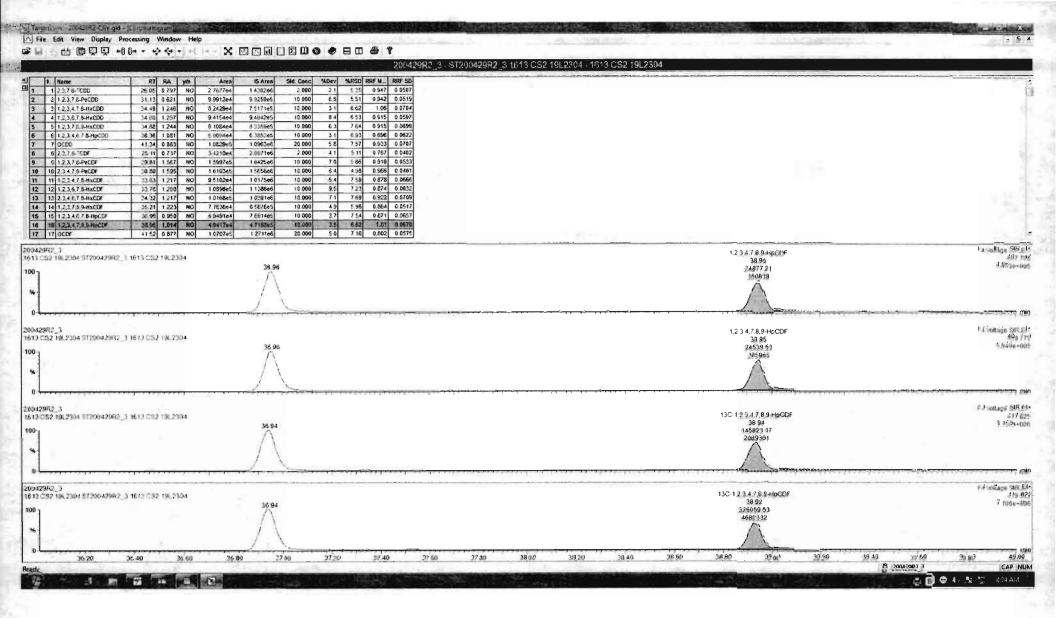
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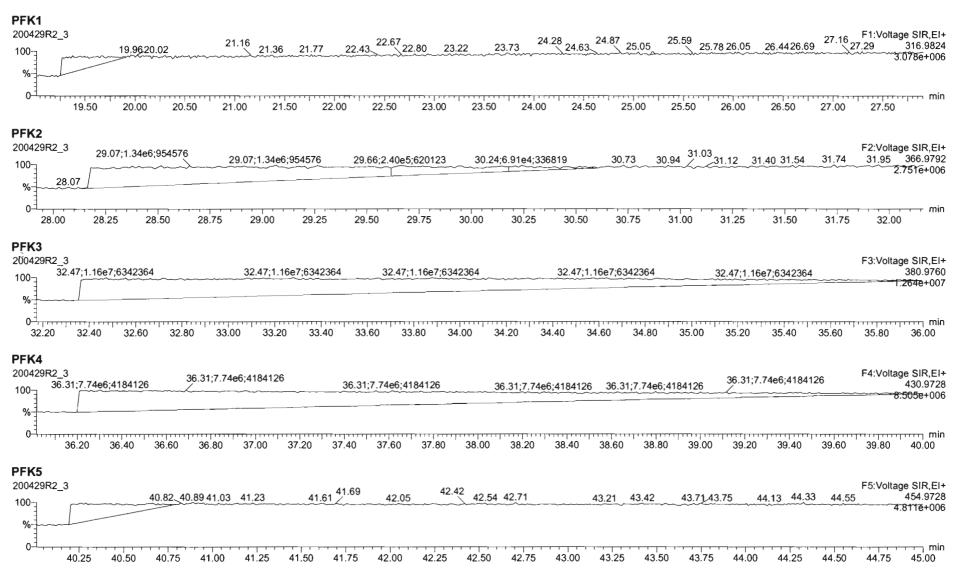




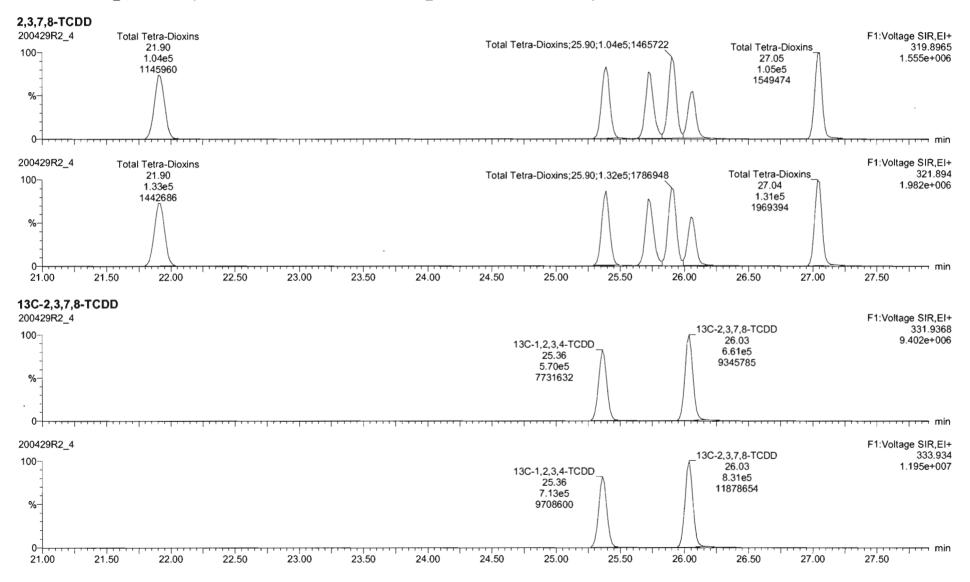
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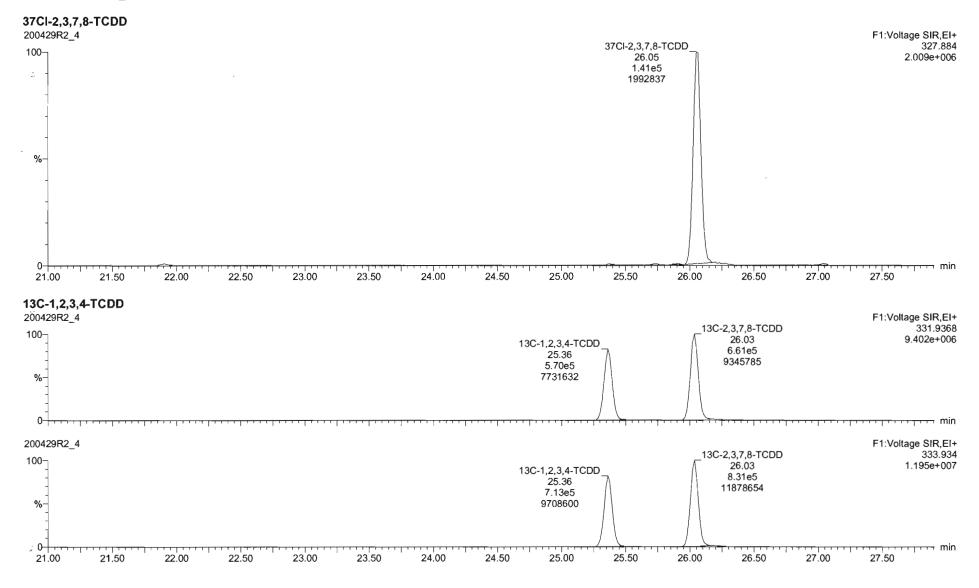
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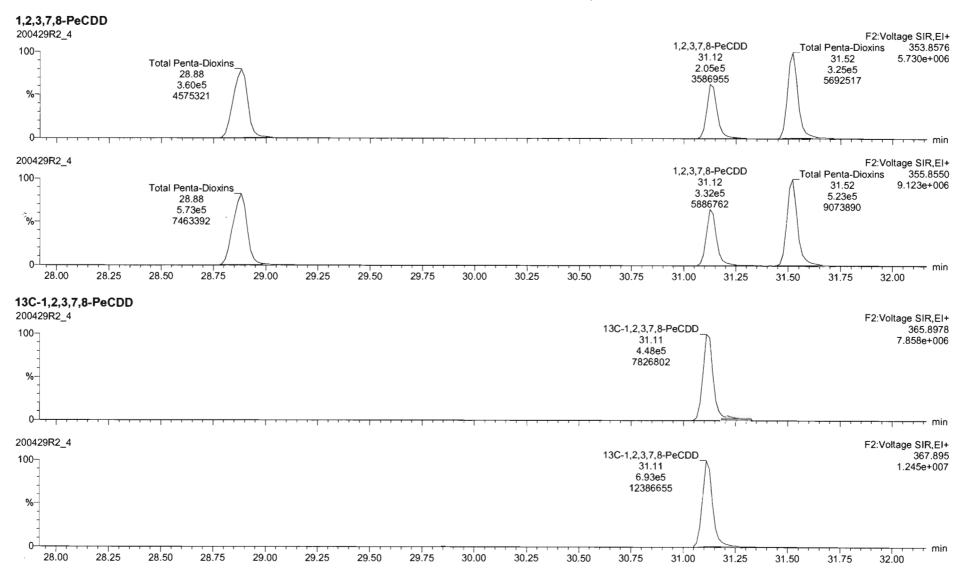
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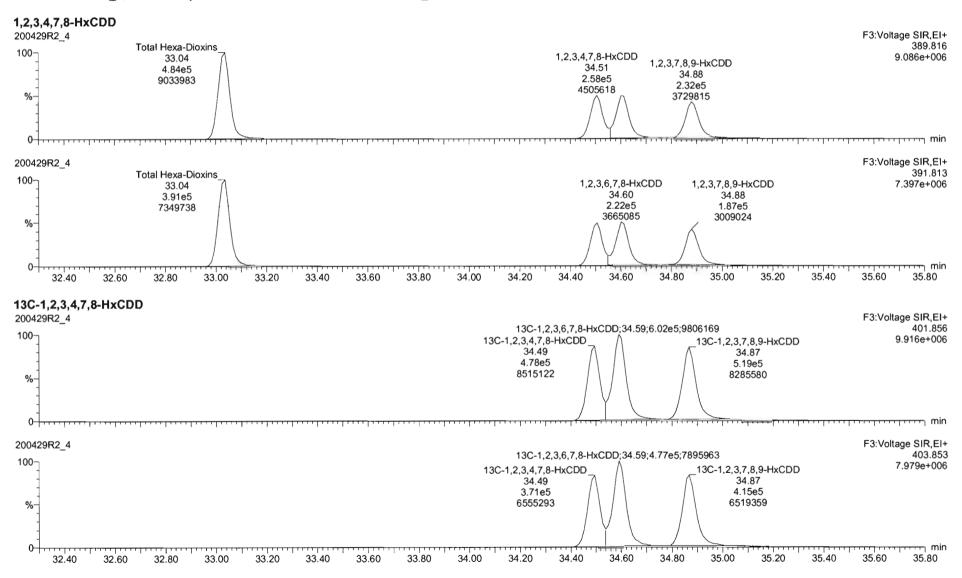
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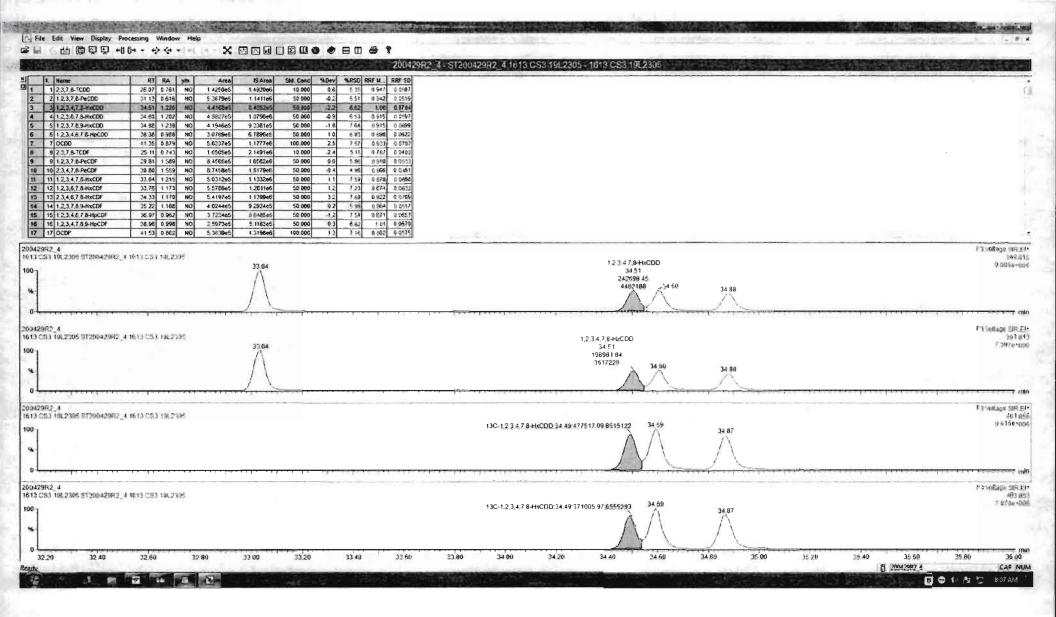


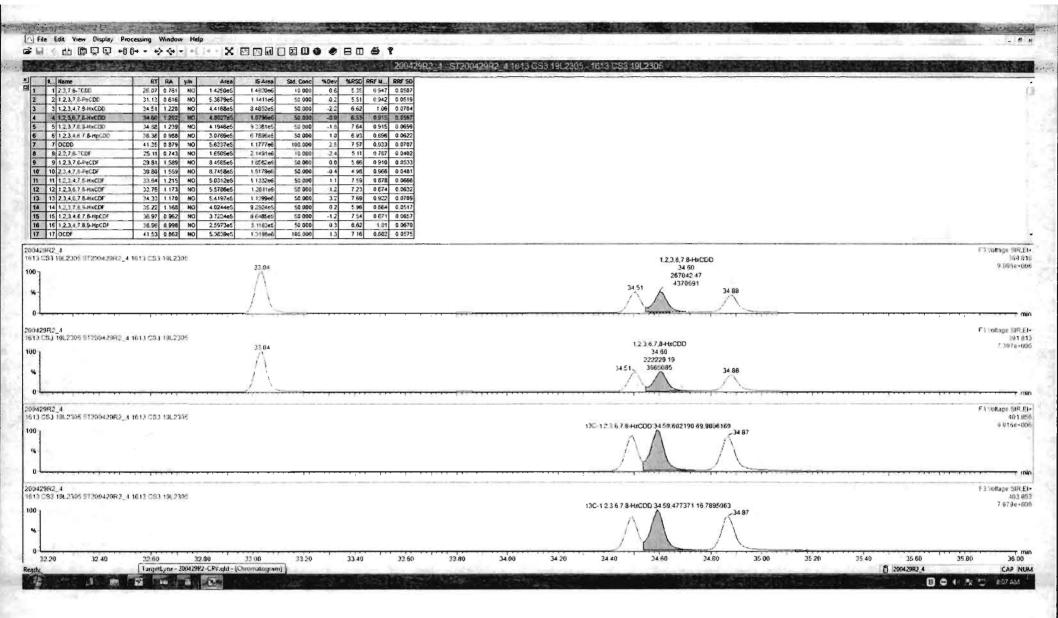
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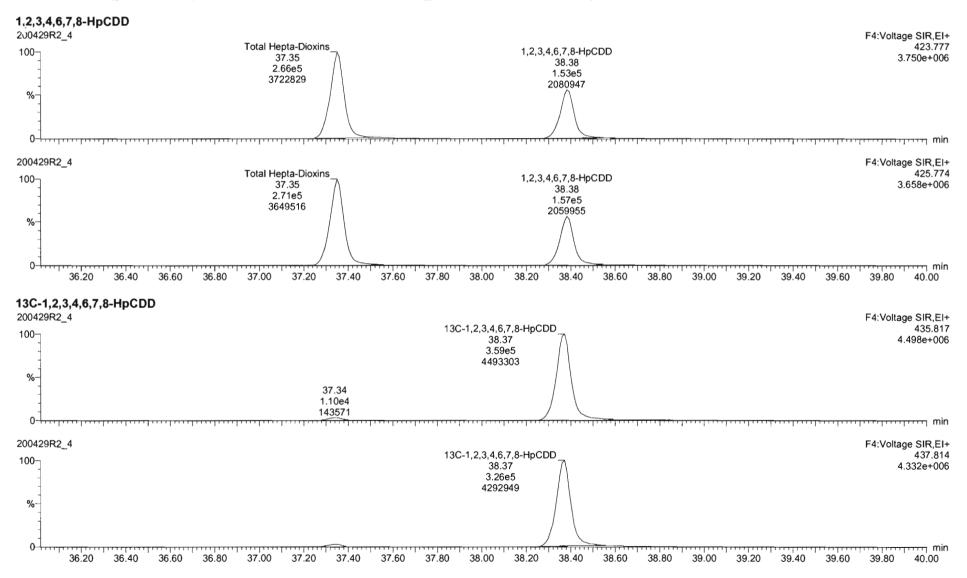
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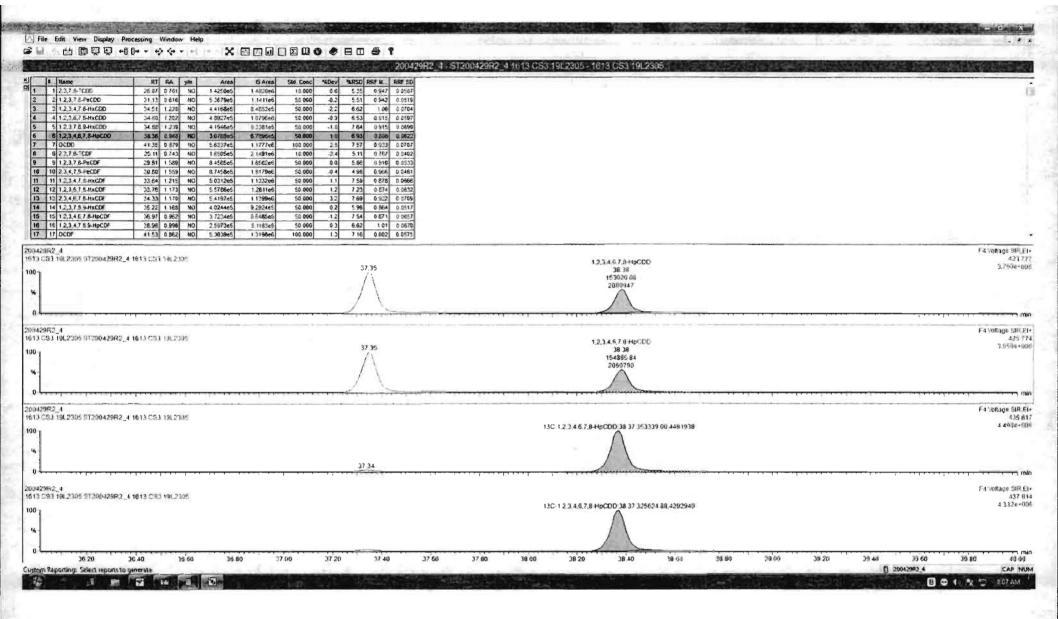




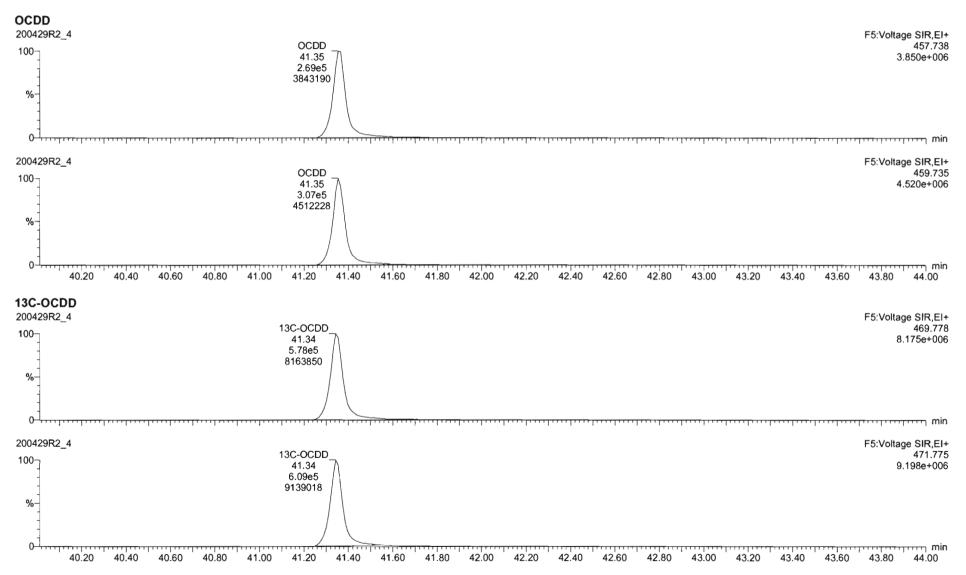


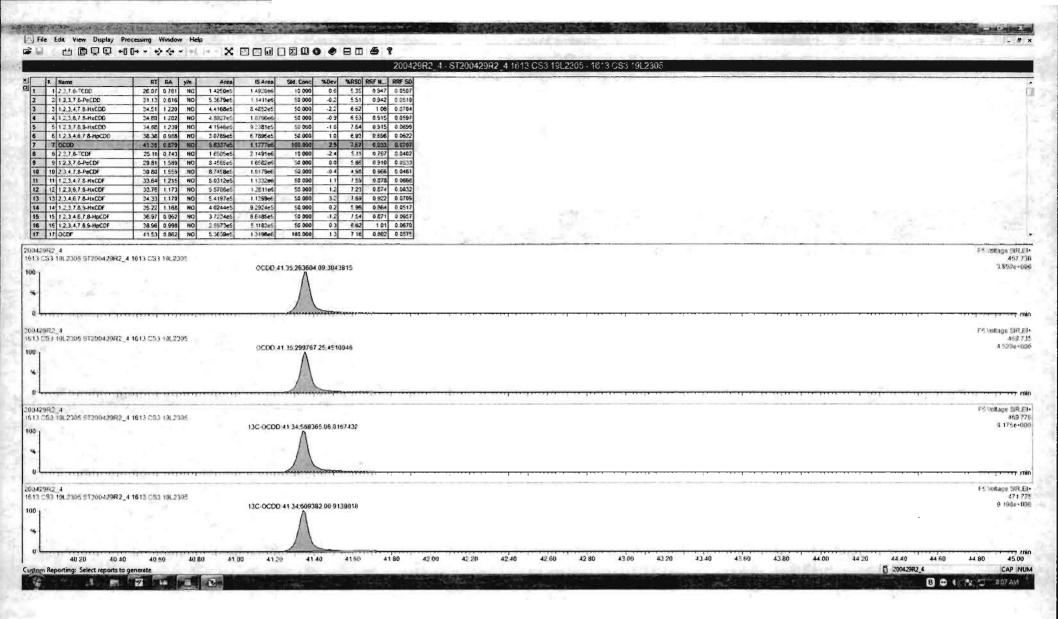
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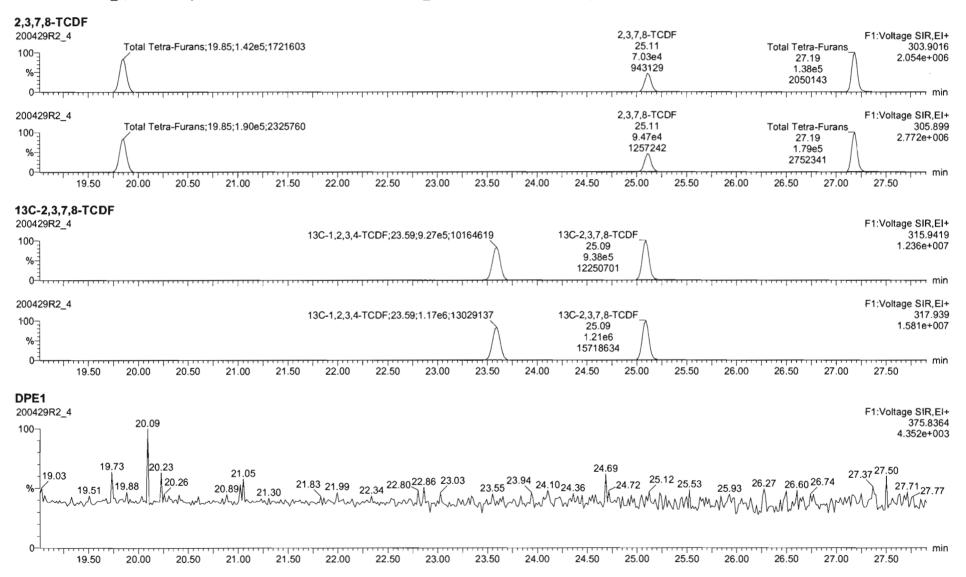


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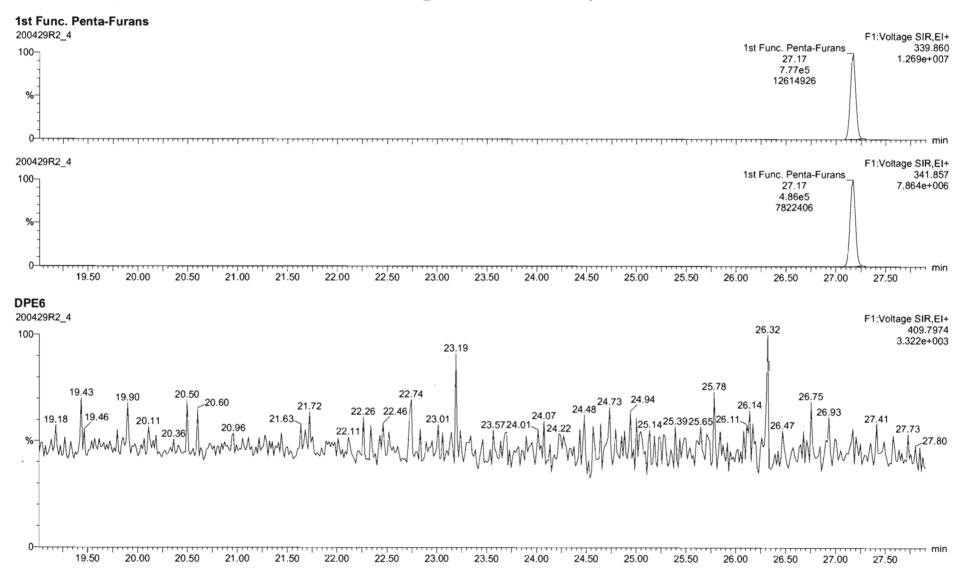




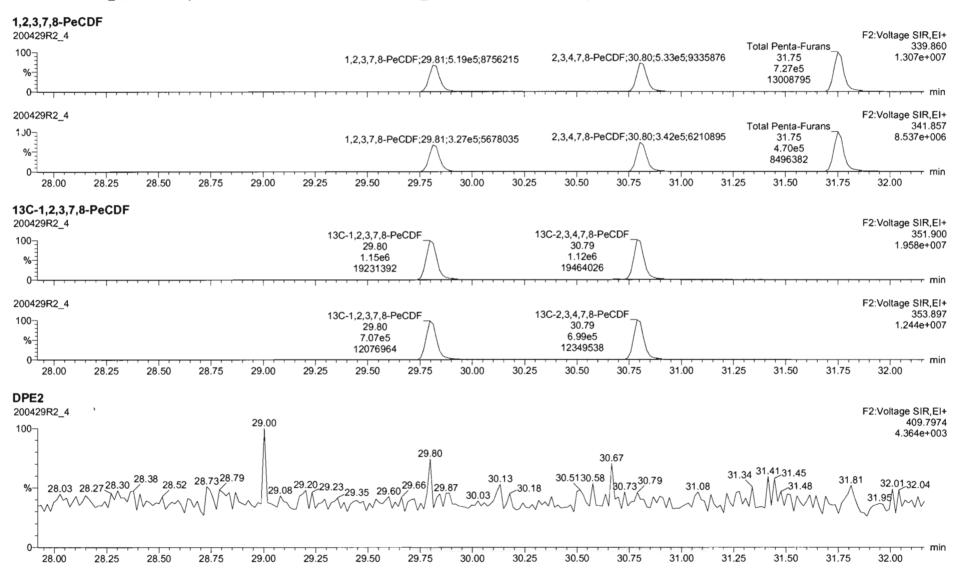
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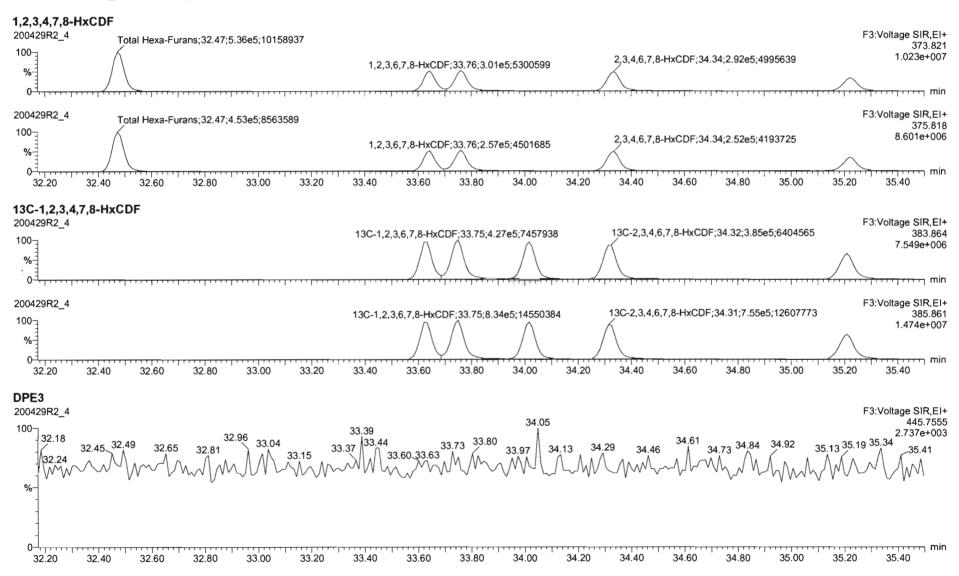
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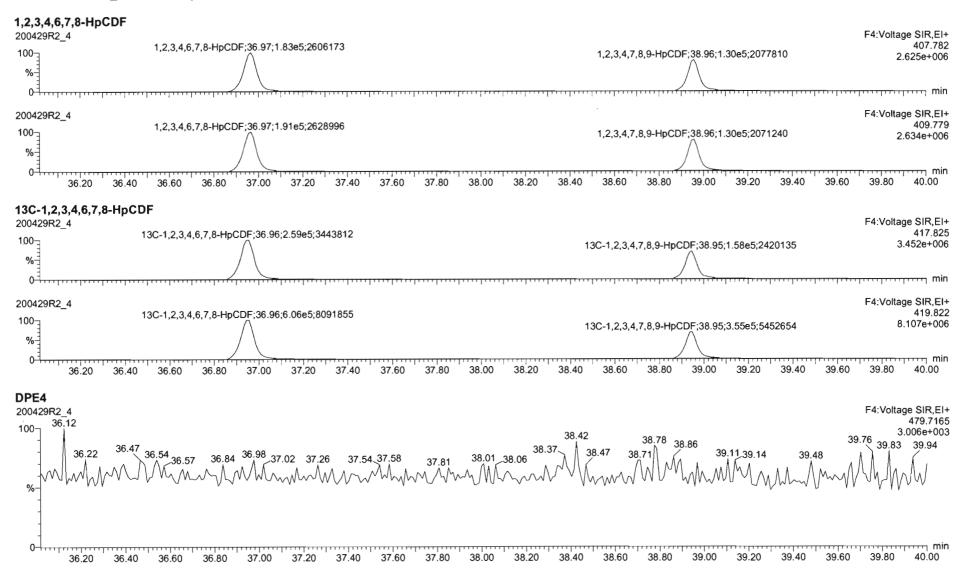
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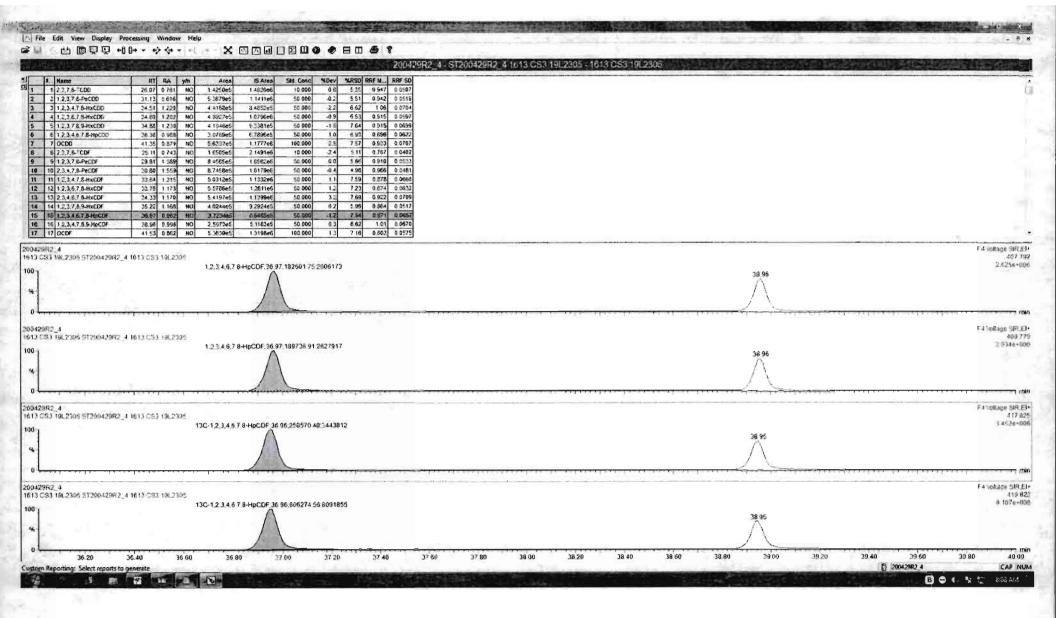


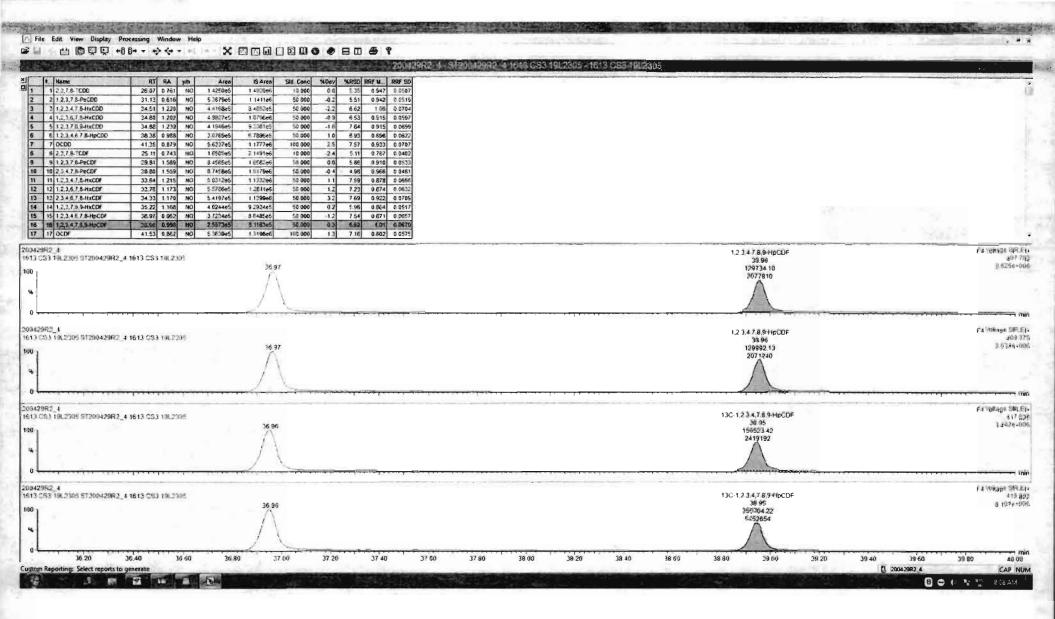
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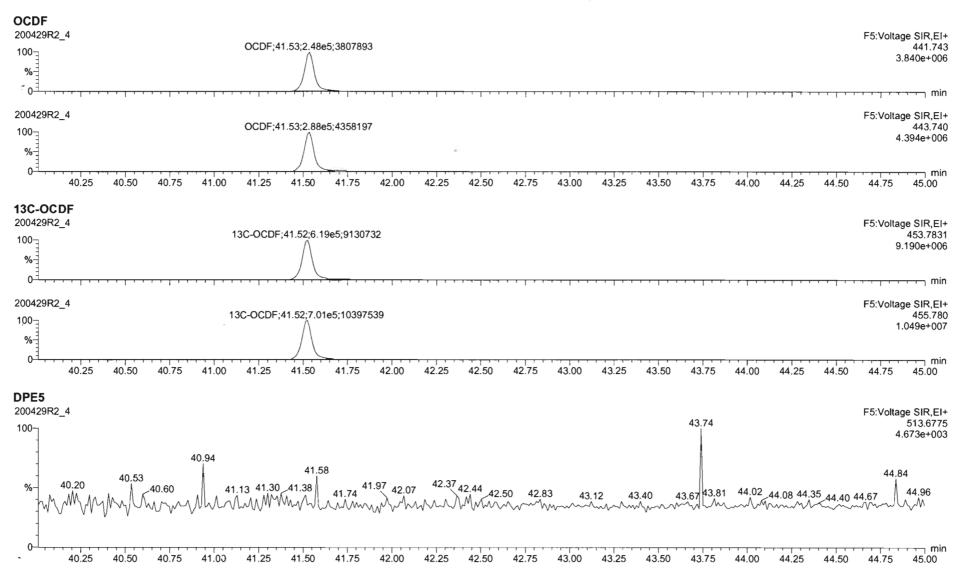
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	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	



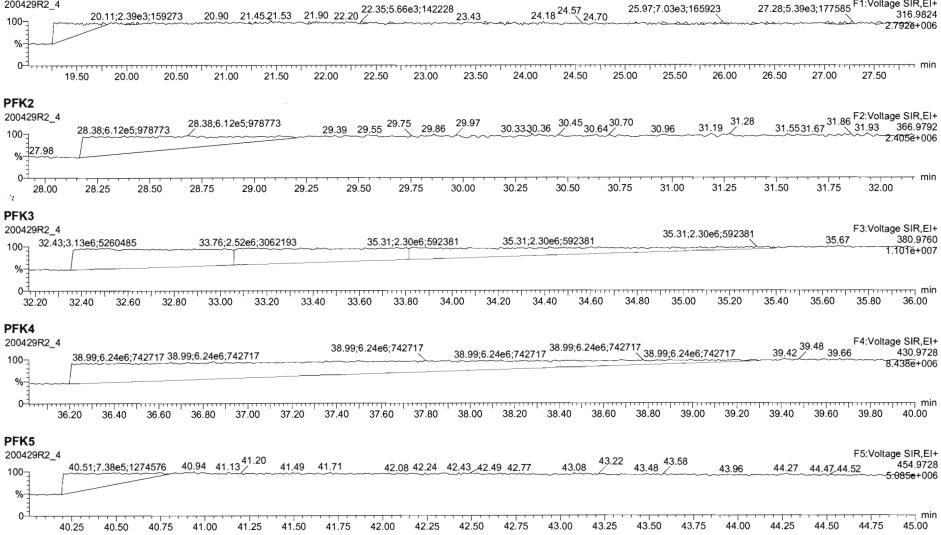




Quantify Sam Vista Analytica		Page 51 of 78
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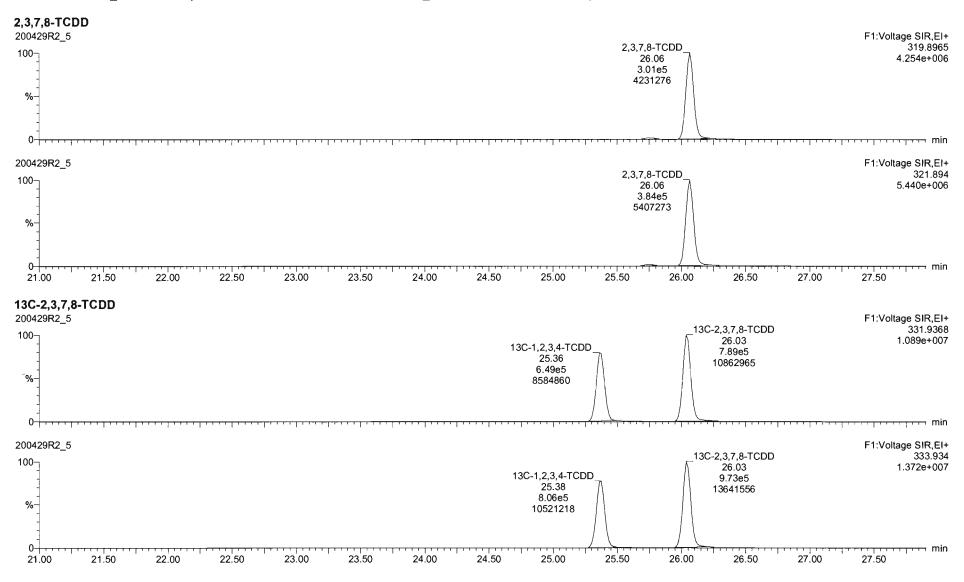


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Name: 20042	R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19	L2305, Description: 1613 CS3 19L2305	
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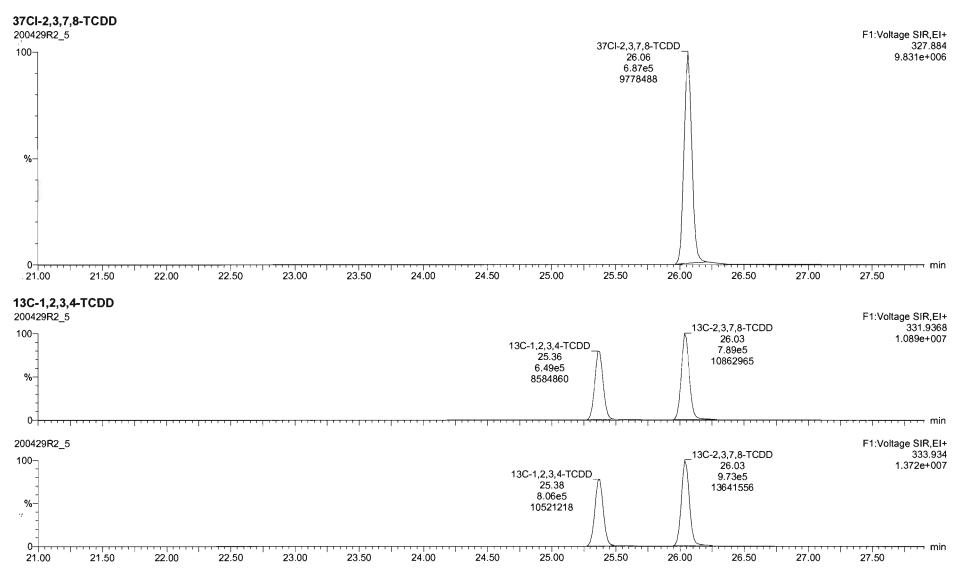


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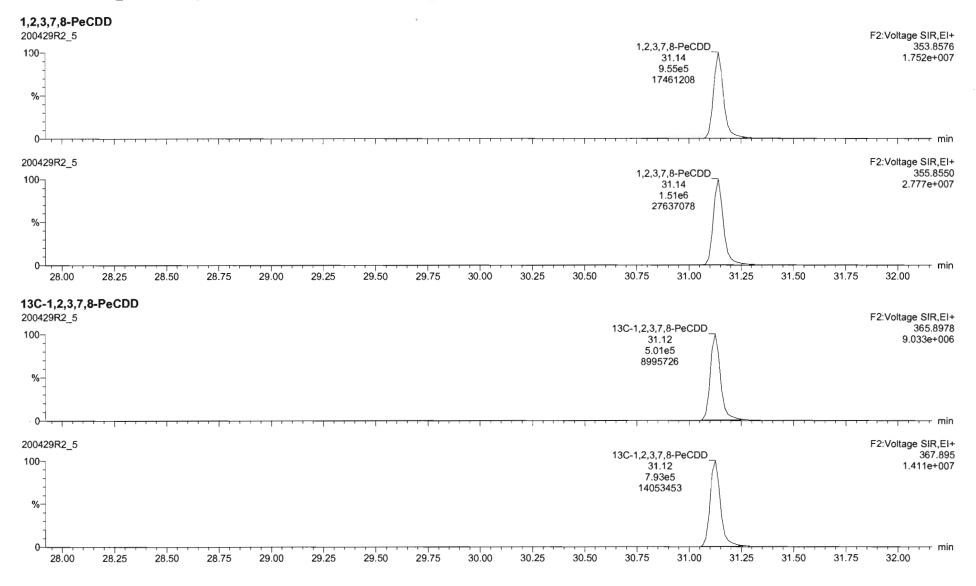
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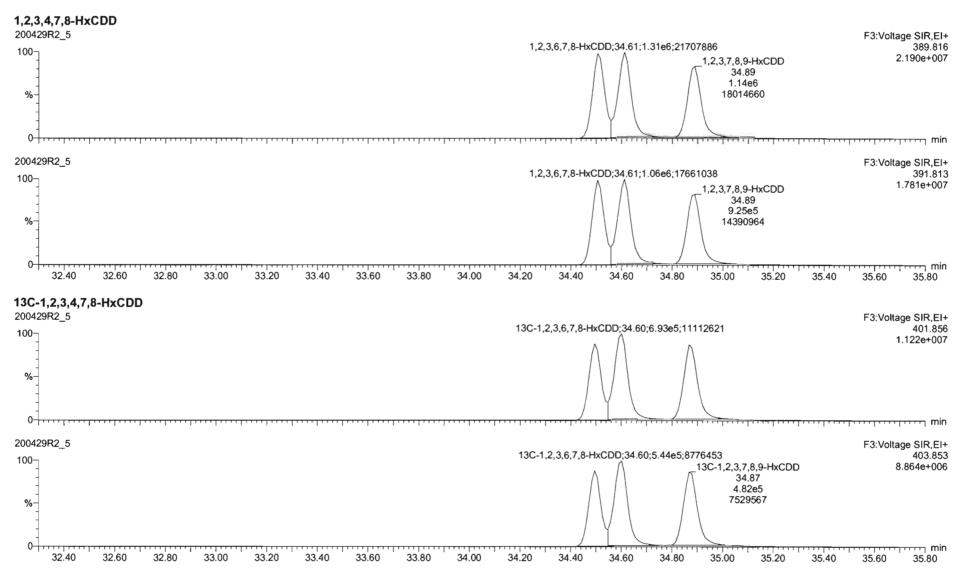
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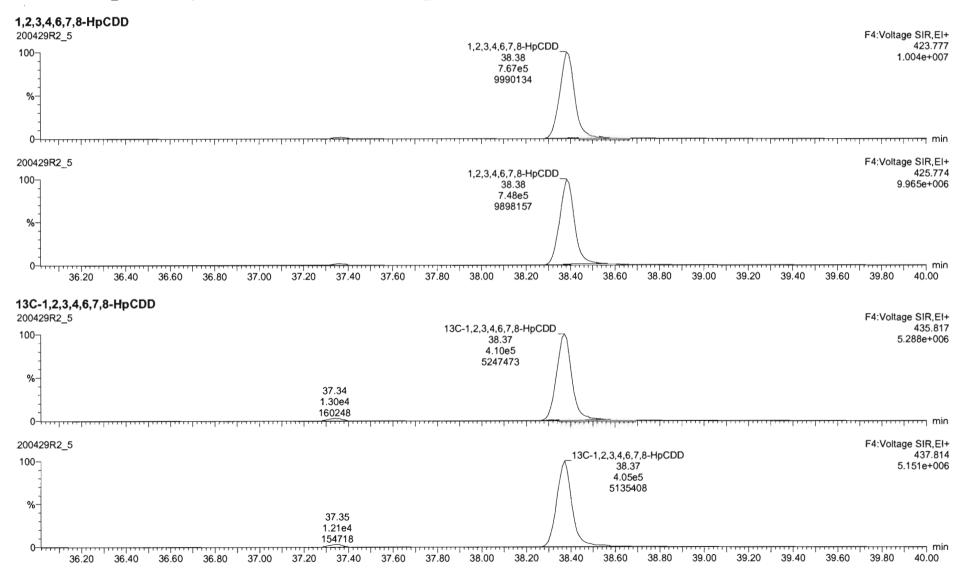
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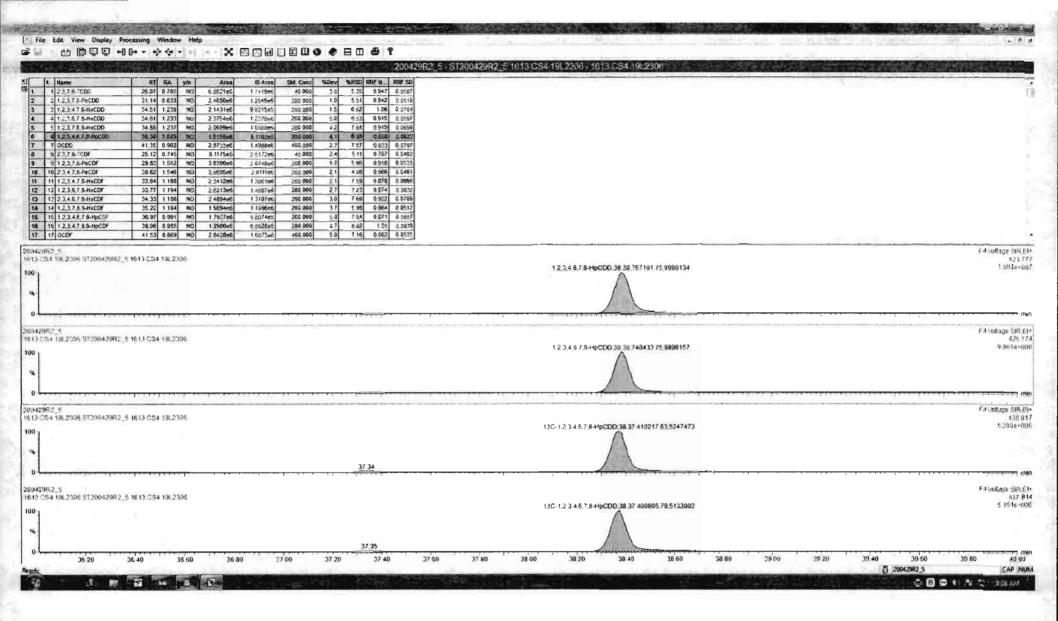


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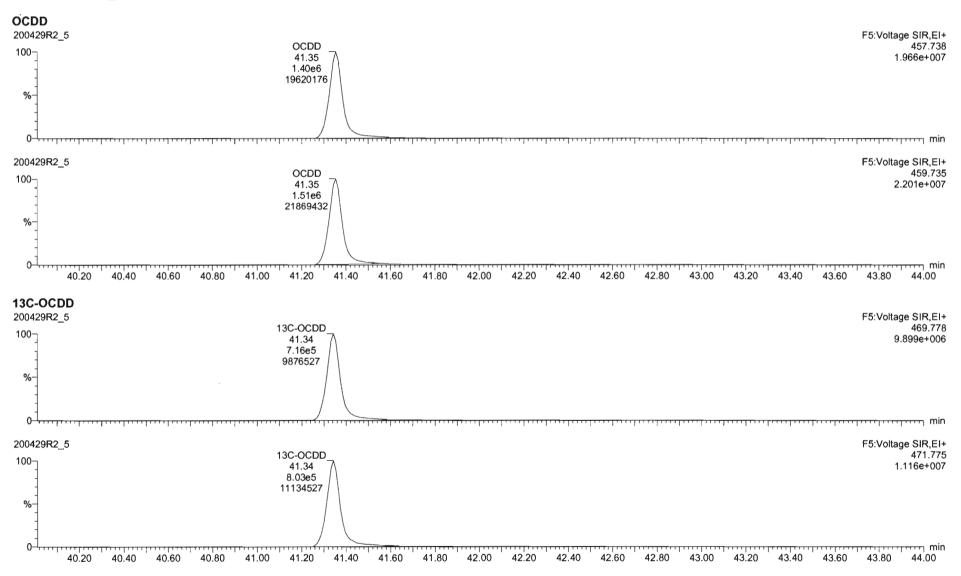


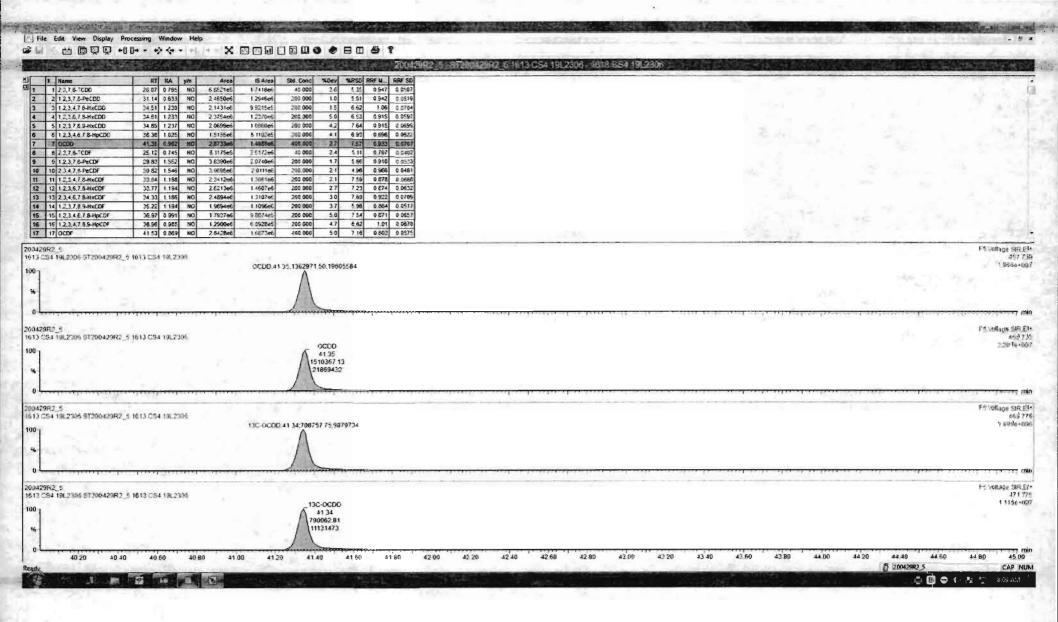
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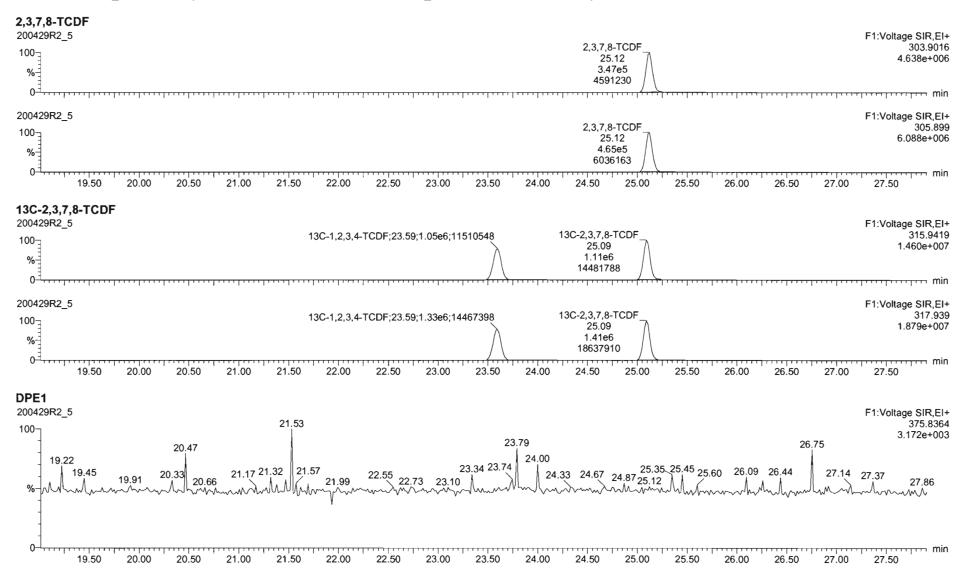


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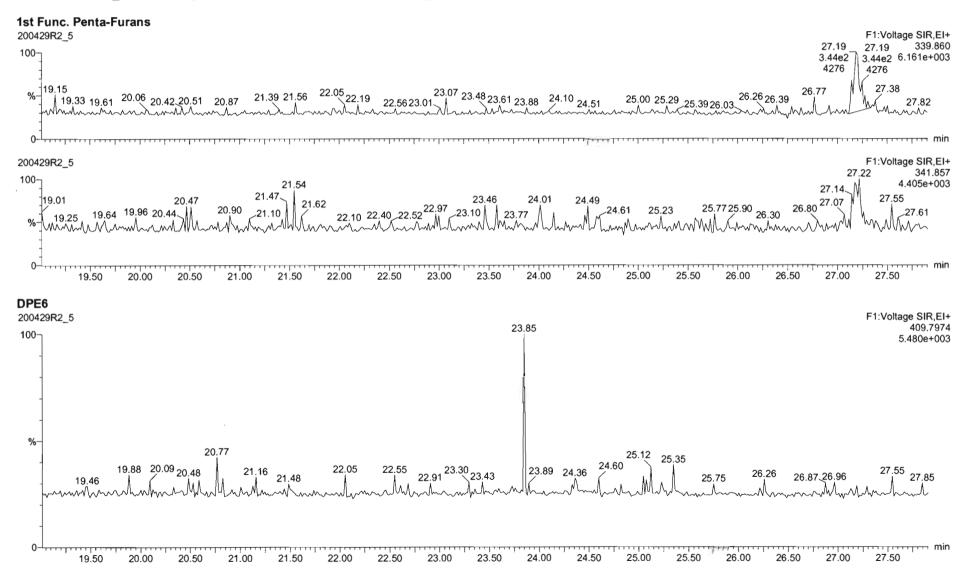




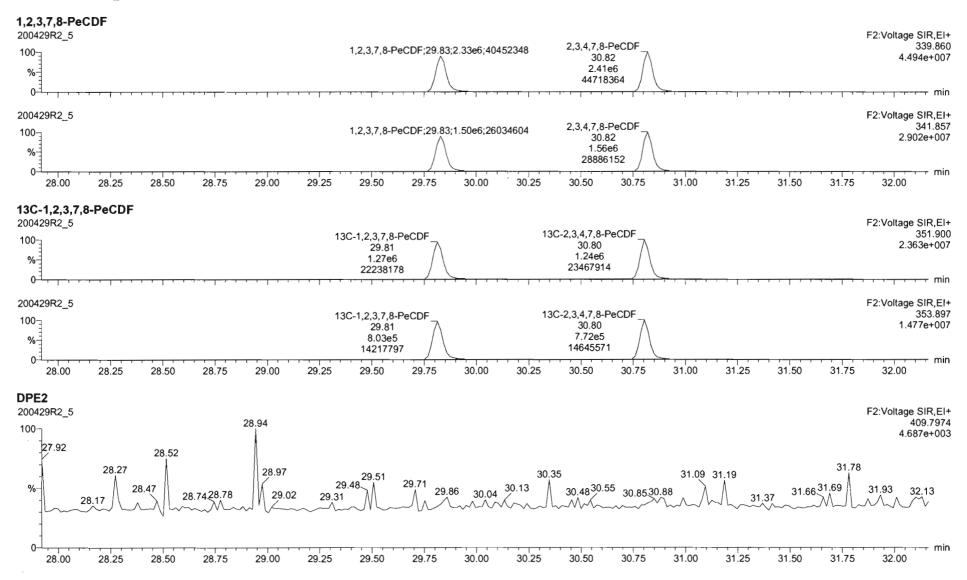
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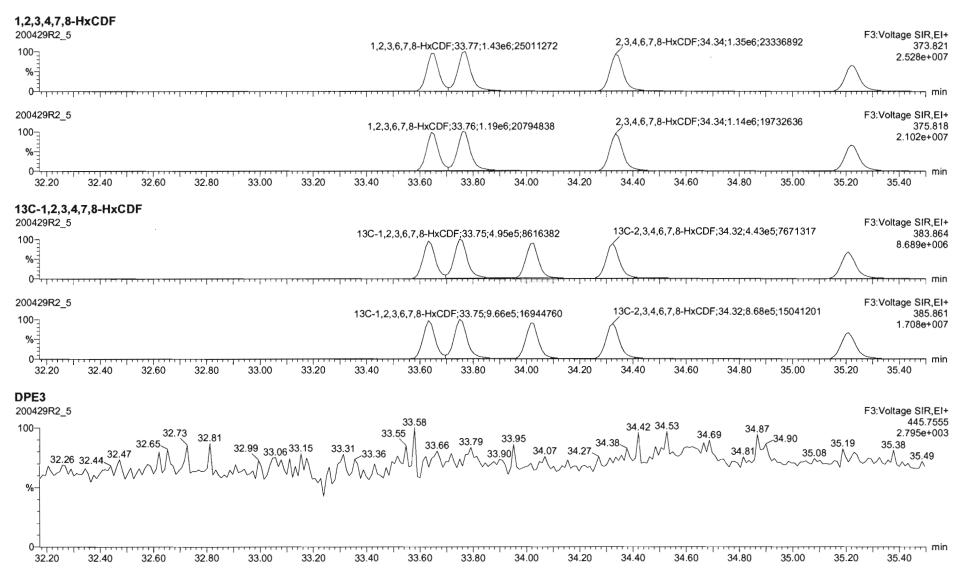
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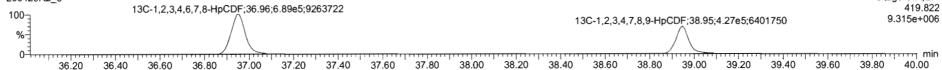


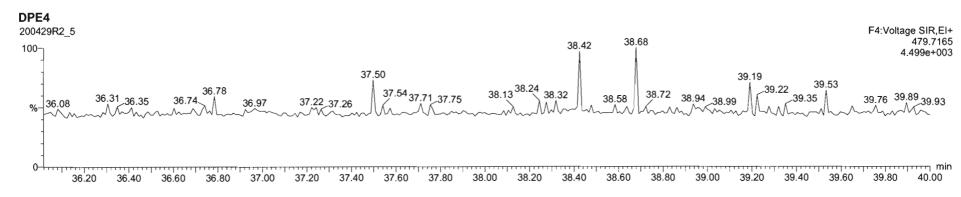
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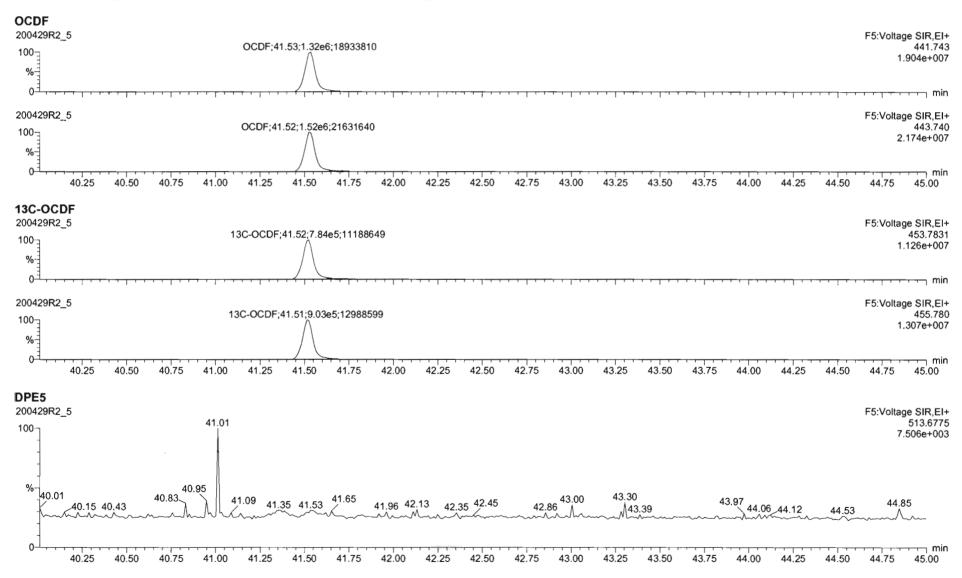
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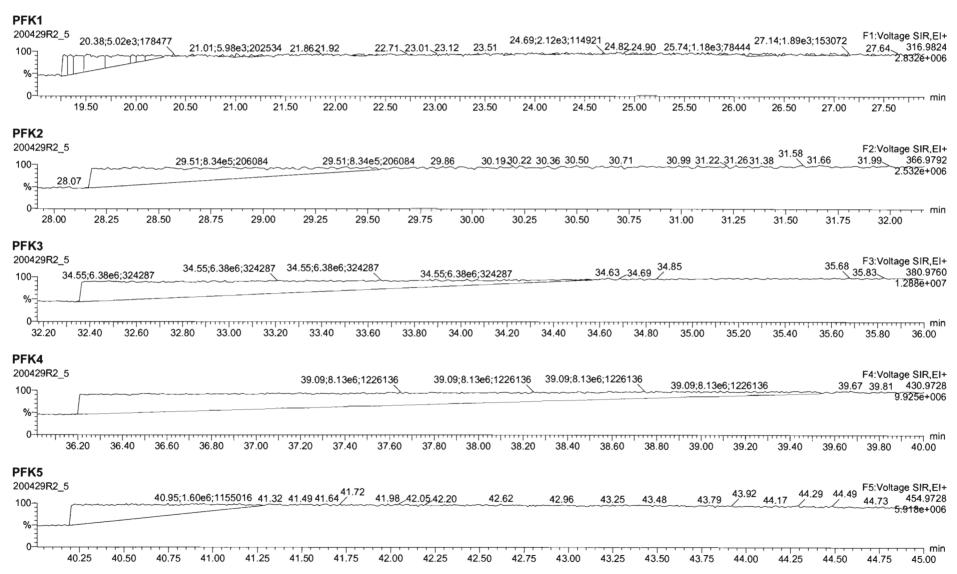




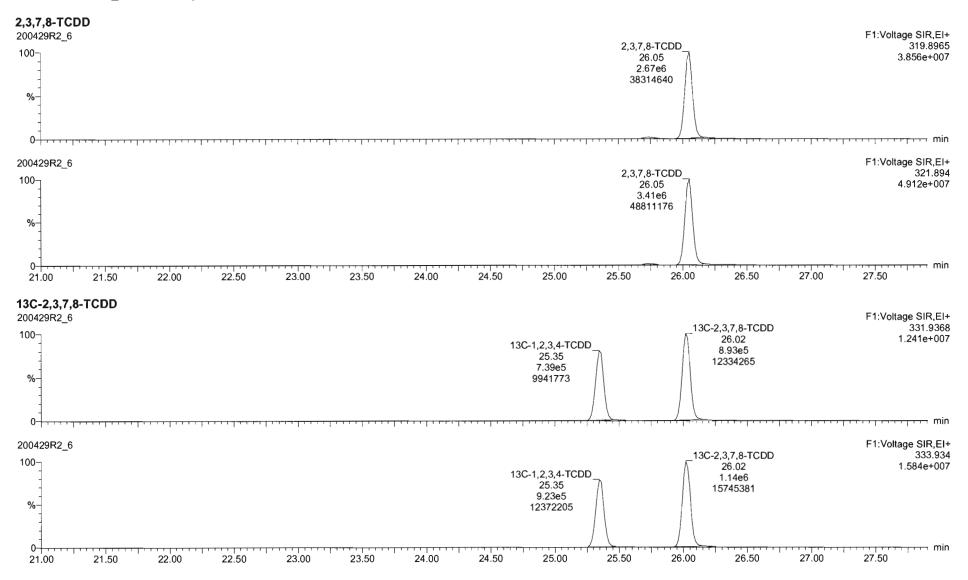
Quantify Sam Vista Analytica		Page 64 of 78
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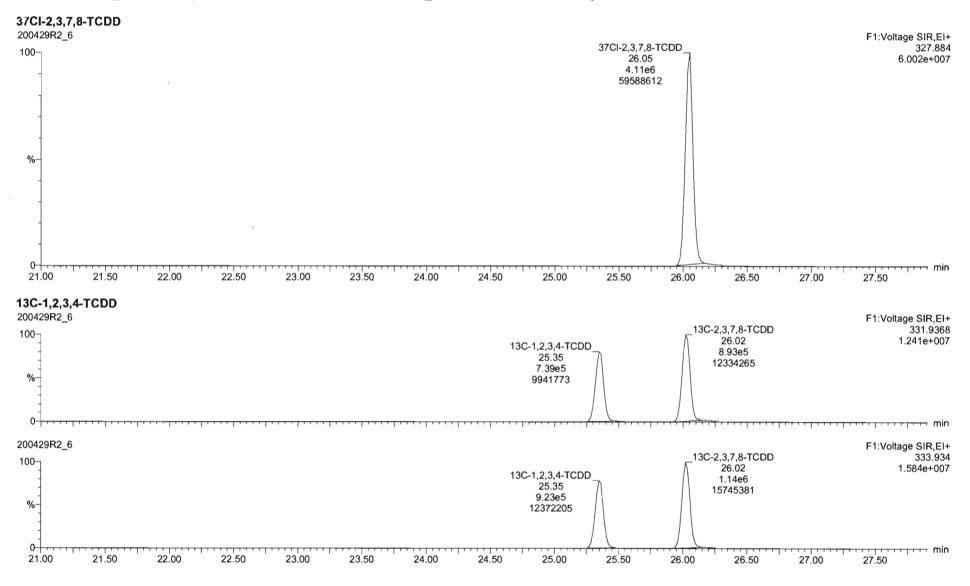
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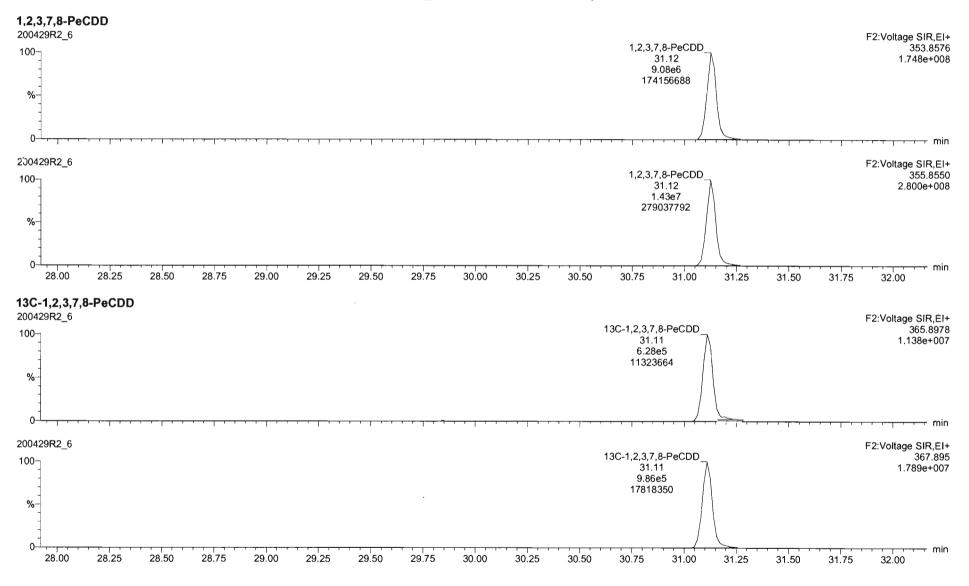
Quantify Sam Vista Analytica		Page 66 of 78
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	



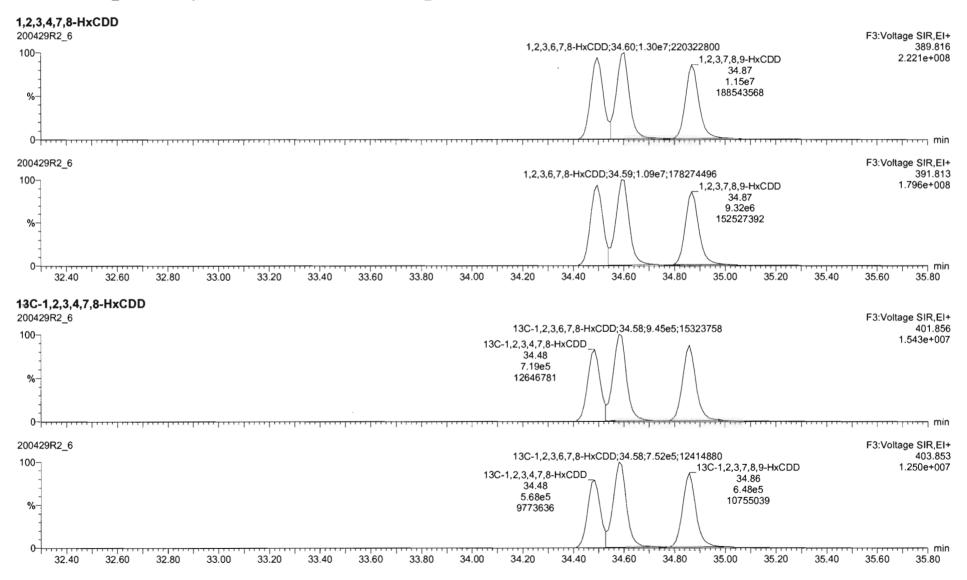
Quantify Sam Vista Analytica		Page 67 of 78
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	

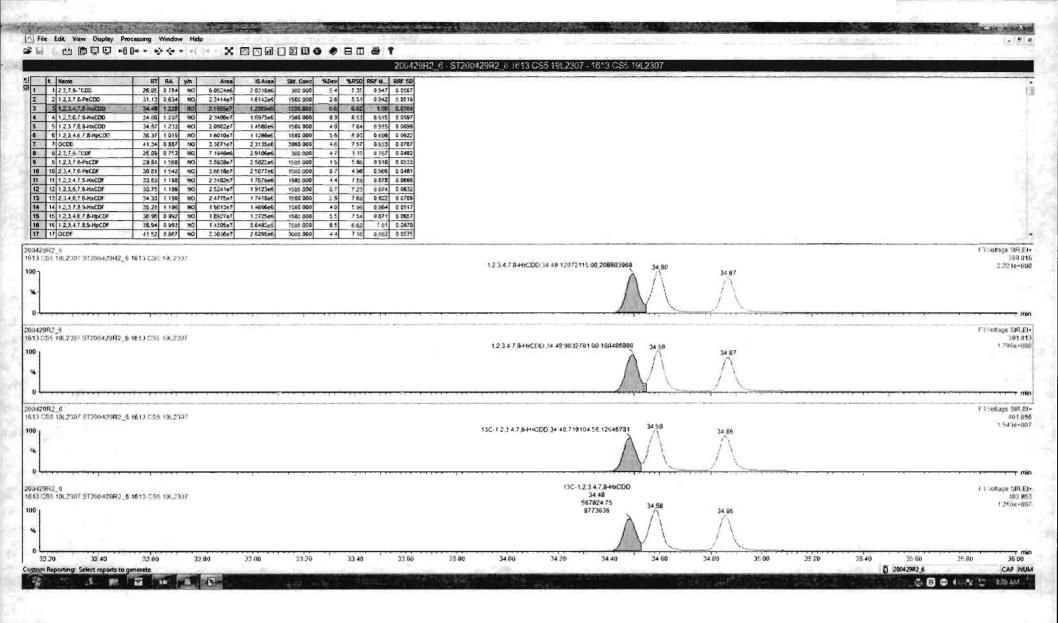


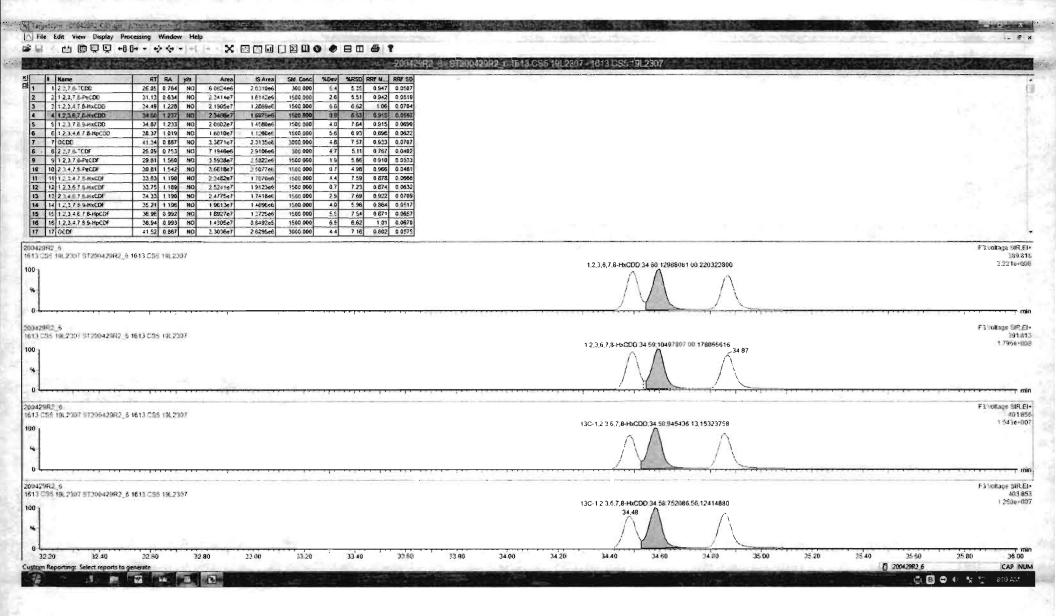
Quantify Sam Vista Analytica		Page 68 of 78
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	



Quantify Sam Vista Analytica	• •	MassLynx 4.1 SCN815	Page 69 of 78
Dataset:	Untitled		
Last Altered: Printed:		il 30, 2020 7:55:03 AM Pacific Daylight Time il 30, 2020 7:55:15 AM Pacific Daylight Time	

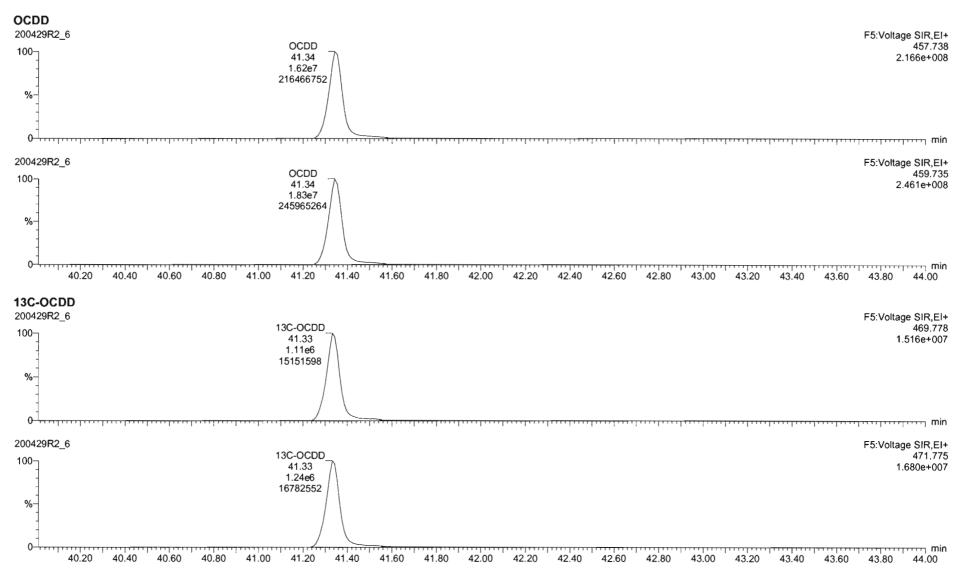


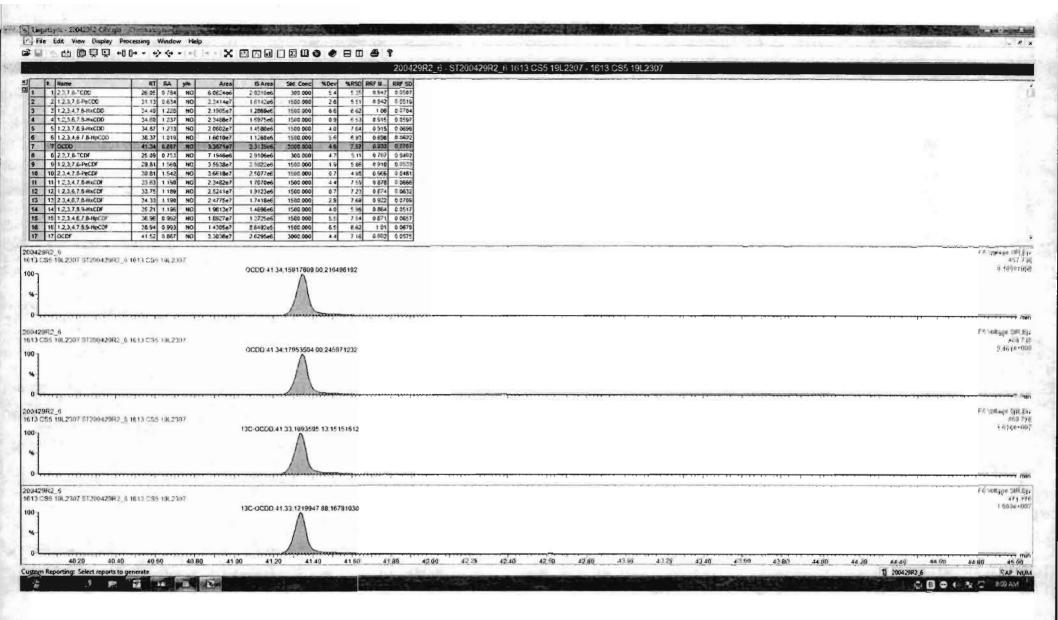




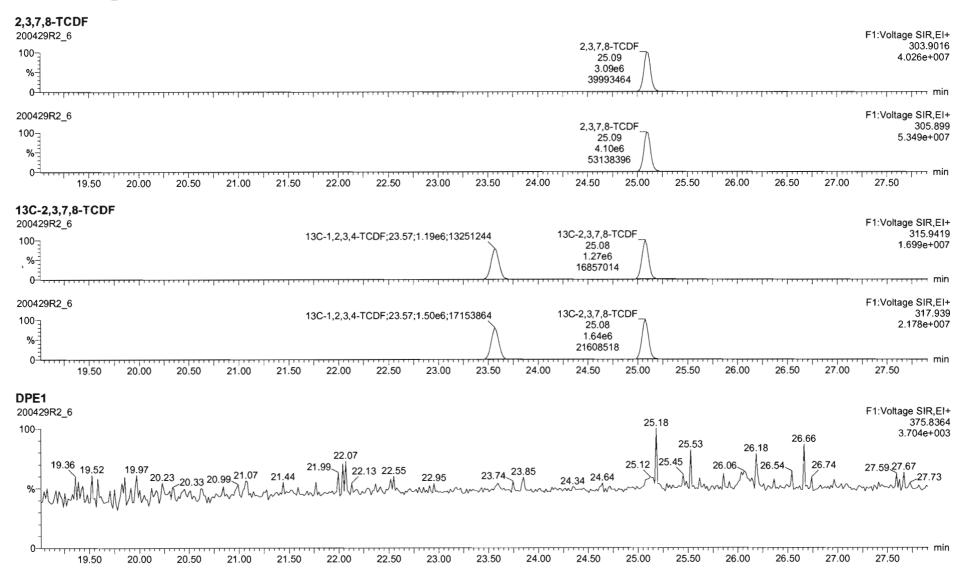
Dataset: Untitled Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 1,2,3,4,6,7,8-HpCDD 200429R2_6	3 CS5 19L2307, Description: 1613 CS5 19L2307	
rinted: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time lame: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 ,2,3,4,6,7,8-HpCDD	3 CS5 19L2307, Description: 1613 CS5 19L2307	
ame: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 2,3,4,6,7,8-HpCDD	3 CS5 19L2307, Description: 1613 CS5 19L2307	
		F4:Voltage SIR,
20 ~	1,2,3,4,6,7,8-HpCDD 38.37 8.08e6 104050856	423.7 1.047e+0
 0		
00429R2_6		F4:Voltage SIR,I
00 %- 0	1,2,3,4,6,7,8-HpCDD 38.36 7.93e6 102200032	425.7 1.027e+(
36.20 36.40 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
3C-1,2,3,4,6,7,8-HpCDD 0429R2_6		F4:Voltage SIR,
00 13C-1. %	1,2,3,4,6,7,8-HpCDD 38.35 5.77e5 7647844	435.8 7.688e+(
0-1		F4:Voltage SIR,
	1,2,3,4,6,7,8-HpCDD 38.35 5.50e5 7075582	437.8 7.126e+0

Quantify Sam Vista Analytica		Page 71 of 78
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	



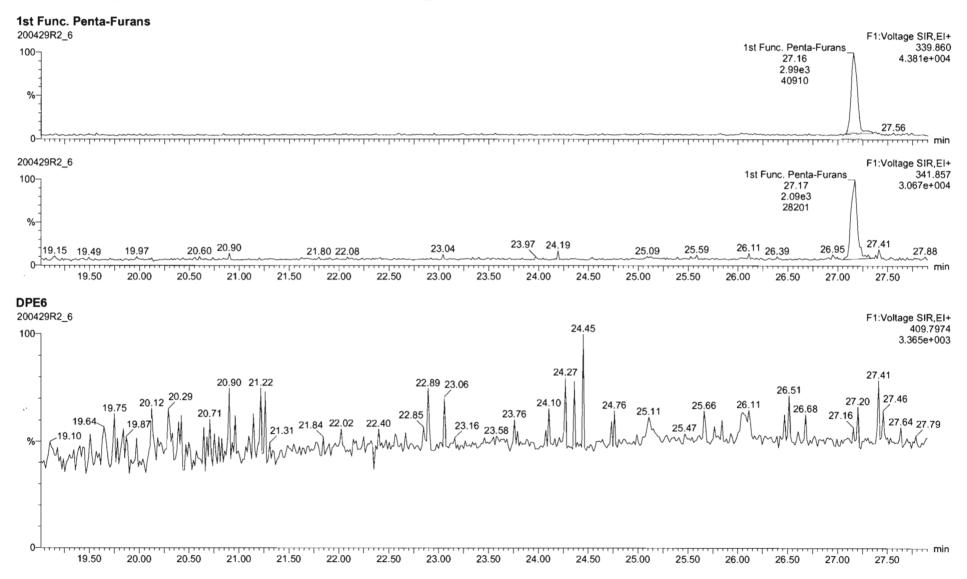


Quantify Sam Vista Analytica		Page 72 of 78
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	

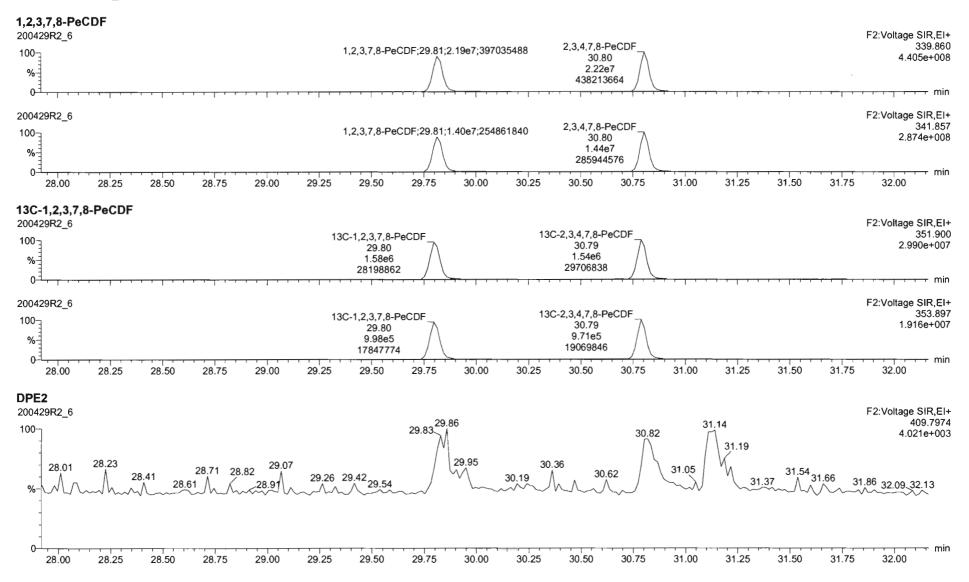


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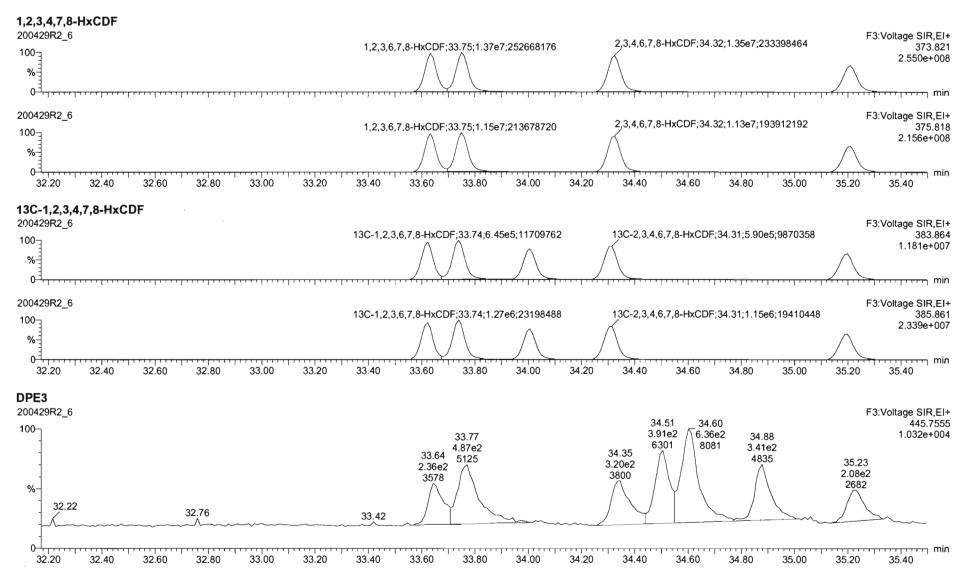
Quantify Sam Vista Analytica		Page 73 of 78
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	



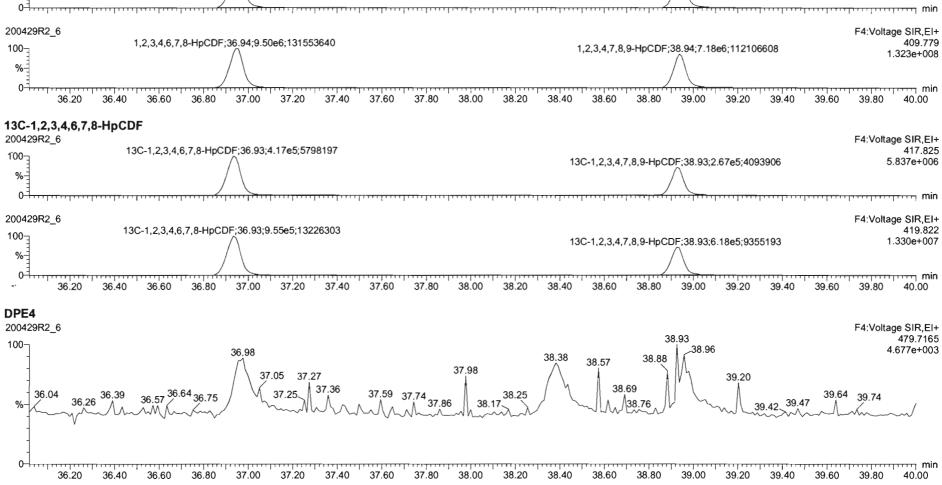
Quantify San Vista Analytica		MassLynx 4.1 SCN815	Page 74 of 78
Dataset:	Untitled		
Last Altered: Printed:	Thursday, Apri Thursday, Apri	30, 2020 7:55:03 AM Pacific Daylight Time 30, 2020 7:55:15 AM Pacific Daylight Time	



Quantify Sam Vista Analytica		Page 75 of 78
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	

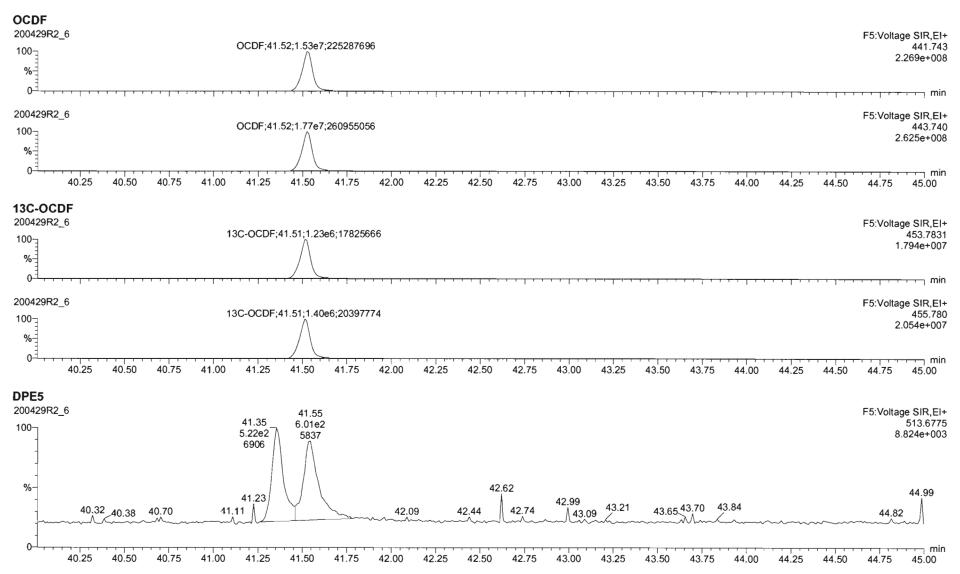


Quantify Sam Vista Analytica		Page	e 76 of 78
Dataset:	Untitled		
_ast Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time		
ame: 20042	9R2_6. Date: 29-Apr-2020. Time: 17:23:21. ID: ST200429R2_6	1613 CS5 19L2307. Description: 1613 CS5 19L2307	
	9R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 lpCDF	1613 CS5 19L2307, Description: 1613 CS5 19L2307	
1 ,2,3,4,6,7,8-H 200429R2_6		F4:Volta	ge SIR,EI- 407.782
1 ,2,3,4,6,7,8-F 200429R2_6	lpCDF	F4:Volta	
1,2,3,4,6,7,8-H 200429R2_6 100	hpCDF 1,2,3,4,6,7,8-HpCDF;36.96;9.42e6;130162464	F4:Volta	407.78 .309e+00

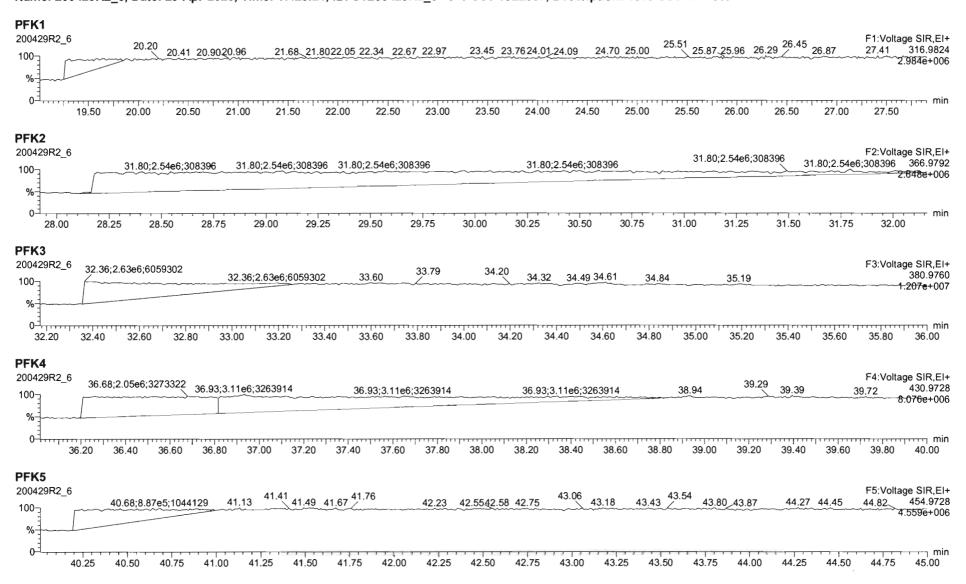


Quantify Sam Vista Analytica		Page 77 of 78
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	

Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307



Quantify Sam Vista Analytica		Page 78 of 78
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time	
	R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307	



Quantify Sample Summary Report Vista Analytical Laboratory MassLynx 4.1 SCN815

U:\VG12.PRO\Results\200429R2\200429R2-8.qld Dataset:

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Printed:	Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

GRB 04/30/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

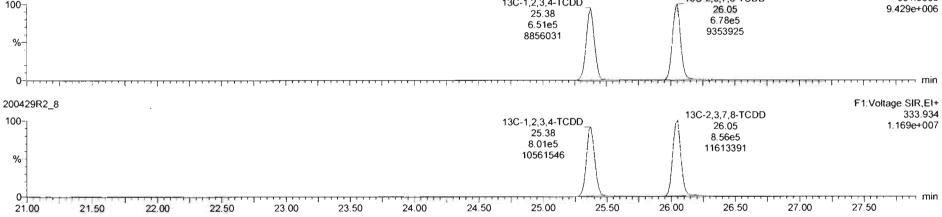
	and the second se					and the second							and the second se	
1117	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.947	1.000	26.081	26.07	1.001	1.001	11.205	112	0.0427	11.2
2	2 1,2,3,7,8-PeCDD	5.70e5	0.63	NO	0.942	1.000	31.147	31.14	1.001	1.000	56.141	112	0.0577	56.1
3	3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.06	1.000	34.505	34.51	1.000	1.000	58.046	116	0.102	58.0
4	4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.915	1.000	34.591	34.61	1.000	1.001	57.430	115	0.105	57.4
5	5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.915	1.000	34.878	34.88	1.000	1.000	58.193	116	0.120	58.2
6	6 1,2,3,4,6,7,8-HpCDD	3.49e5	1.04	NO	0.898	1.000	38.373	38.38	1.000	1.001	56.727	113	0.145	56.7
7	7 OCDD	6.53e5	0.88	NO	0.933	1.000	41.343	41.35	1.000	1.000	116.94	117	0.107	117
8	8 2.3,7,8-TCDF	1.99e5	0.73	NO	0.787	1.000	25.117	25.12	1.001	1.001	11.247	112	0.0306	11.2
9	9 1,2,3,7.8-PeCDF	9.00e5	1.54	NO	0.910	1.000	29.834	29.83	1.001	1.001	55.836	112	0.0810	55.8
10	10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.966	1.000	30.836	30.82	1.001	1.000	60.816	122	0.0765	60.8
11	11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.878	1.000	33.632	33.64	1.000	1.000	55.918	112	0.109	55.9
12	12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.874	1.000	33.760	33.76	1.000	1.000	56.451	113	0.107	56.5
13	13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.922	1.000	34.359	34.33	1.001	1.000	56.186	112	0.118	56.2
14	14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.864	1.000	35.209	35.22	1.000	1.000	55.290	111	0.162	55.3
15	15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.871	1.000	36.982	36.97	1.001	1.001	54.863	110	0.153	54.9
16	16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.01	1.000	38.947	38.95	1.000	1.000	57.162	114	0.204	57.2
17	17 OCDF	6.13e5	0.86	NO	0.802	1.000	41.525	41.53	1.000	1.000	115.17	115	0.126	115
18	18 13C-2,3,7,8-TCDD	1.53e6	0.79	NO	1.16	1.000	26.046	26.05	1.026	1.027	91.114	91.1	0.0954	
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.847	1.000	31.141	31.13	1.227	1.227	87.564	87.6	0.0958	
20	20 13C-1,2,3,4,7,8-HxCDD	7.95e5	1.29	NO	0.750	1.000	34.496	34.49	1.014	1.014	88.379	88.4	0.183	
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	1.29	NO	0.963	1.000	34.608	34.59	1.017	1.017	89.585	89.6	0.142	
22	22 13C-1,2,3,7,8,9-HxCDD	8.98e5	1.26	NO	0.838	1.000	34.877	34.87	1.025	1.025	89.402	89.4	0.164	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.86e5	1.10	NO	0.641	1.000	38.367	38.36	1.128	1.128	89.184	89.2	0.183	
24	24 13C-OCDD	1.20e6	0.86	NO	0.586	1.000	41.360	41.34	1.216	1.215	170.31	85.2	0.144	
25	25 13C-2,3,7,8-TCDF	2.25 e 6	0.78	NO	1.03	1.000	25.104	25.09	0.989	0.989	92.189	92.2	0.134	
26	26 13C-1,2,3,7,8-PeCDF	1.77e6	1.60	NO	0.845	1.000	29.829	29.81	1.176	1.175	88.893	88.9	0.195	- 10
27	27 13C-2,3,4,7,8-PeCDF	1.71e6	1.60	NO	0.814	1.000	30.822	30.81	1.215	1.214	88.919	88.9	0.203	
28	28 13C-1,2,3,4,7,8-HxCDF	1.12e6	0.51	NO	1.00	1.000	33.635	33.63	0.989	0.989	93.115	93.1	0.212	
29	29 13C-1,2,3,6,7,8-HxCDF	1.26e6	0.51	NO	1.14	1.000	33.757	33.75	0.992	0.992	92.434	92.4	0.187	
30	30 13C-2,3,4,6,7,8-HxCDF	1.12e6	0.51	NO	1.02	1.000	34.326	34.33	1.009	1.009	91.031	91.0	0.208	
31	31 13C-1,2,3,7,8,9-HxCDF	9.97e5	0.51	NO	0.845	1.000	35.217	35.21	1.035	1.035	98.412	98.4	0.252	

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

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Printed:	Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

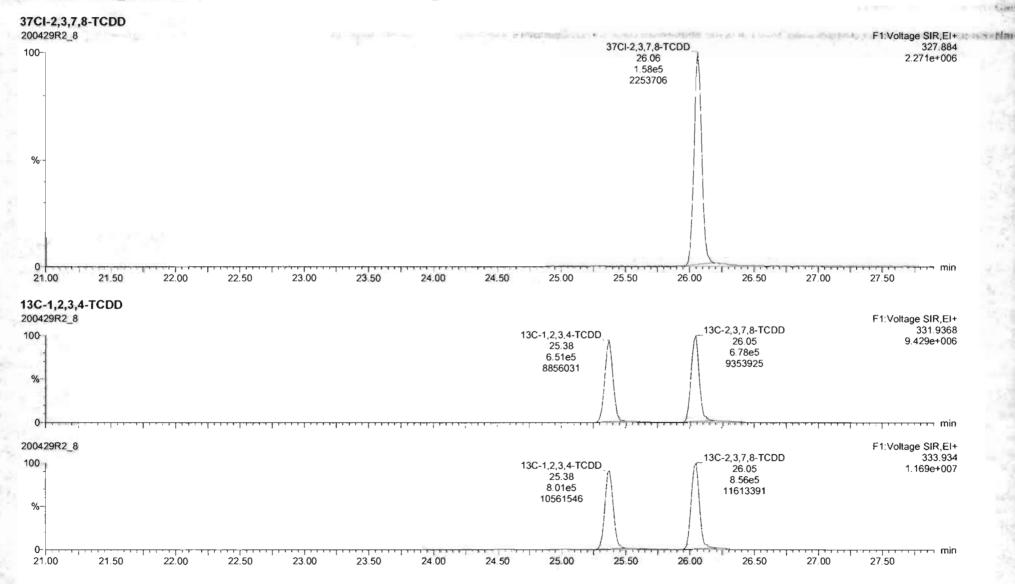
													1 C 4 10 2 4	F 10.1 F12.
the plater in	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7.8-HpCDF	8.59e5	0.43	NO	0.771	1.000	36.948	36.94	1.086	1.086	92.960	93.0	0.284	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.17e5	0.43	NO	0.482	1.000	38.959	38.95	1.145	1.145	89.503	89.5	0.455	
34	34 13C-OCDF	1.33e6	0.88	NO	0.669	1.000	41.530	41.53	1.221	1.221	165.58	82.8	0.146	
35	35 37CI-2,3,7,8-TCDD	1.58e5			1.10	1.000	26.076	26,07	1.028	1.027	9.8763	98.8	0.0151	
36	36 13C-1,2,3,4-TCDD	1.45e6	0.81	NO	1.00	1.000	25.350	25.38	1.000	1.000	100.00	100	0.111	
37	37 13C-1,2,3,4-TCDF	2.36e6	0.79	NO	1.00	1.000	23.560	23.59	1.000	1.000	100.00	100	0.139	
38	38 13C-1.2.3,4,6,9-HxCDF	1.20e6	0.51	NO	1.00	1.000	34.000	34.02	1.000	1.000	100.00	100	0.213	
-							_							

Quantify Sam /ista Analytica			Page 1 of 1
Dataset:	Untitled		
ast Altered: Printed:	Thursday, April 30, 2020 8:38:20 AM Pacific Dayligh Thursday, April 30, 2020 8:38:30 AM Pacific Dayligh	t Time t Time	
	/G12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 202 U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb		
lame: 20042	9R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS20	0429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308	
,3,7,8-TCDD 00429R2_8		2,3,7,8-TCDD	F1:Voltage SIR,E 319.896
-000		26.06 7.01e4	1.010e+00
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00429R2_8			F1:Voltage SIR,E
100		2,3,7,8-TCDD 26.06	321.89 1.279e+00
- 1		9.27e4 1275032	
%		12/3032	
0	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
3C-2,3,7,8-T	CDD		F1:Voltage SIR,E
100-		13C-1,2,3,4-TCDD 13C-2,3,7,8-TCI	DD 331.936 9.429e+00
-		25.38 6.51e5	5.4250-0

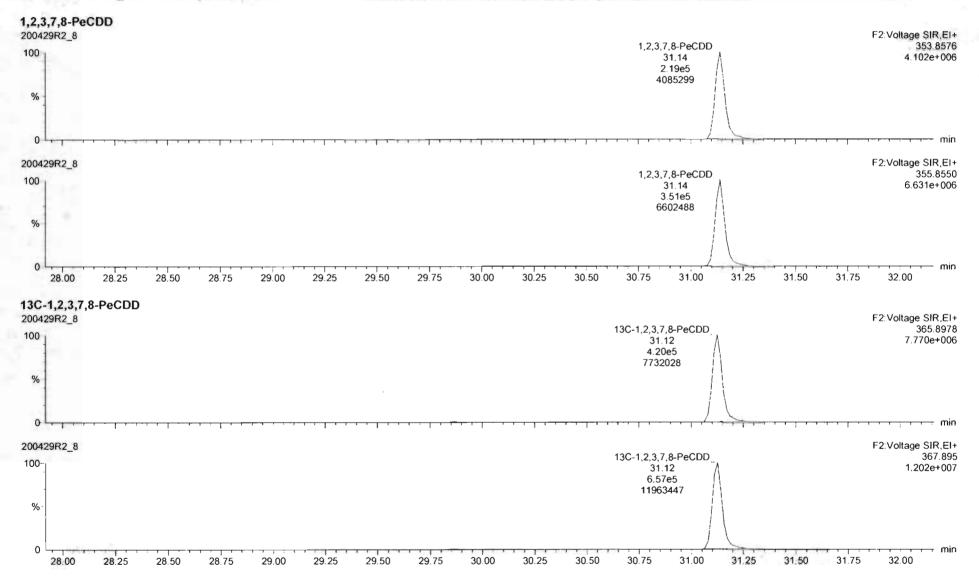


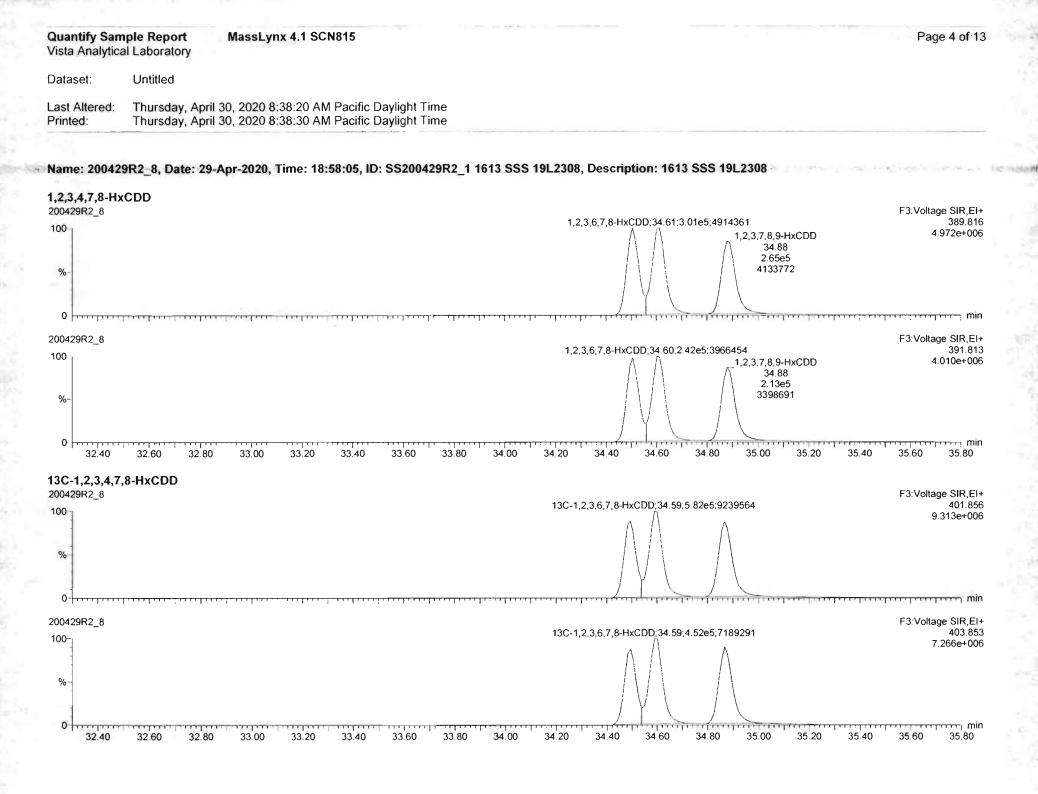
S. 10:

Quantify Sam Vista Analytica		Page 2 of 13
Dataset:	Untitled	
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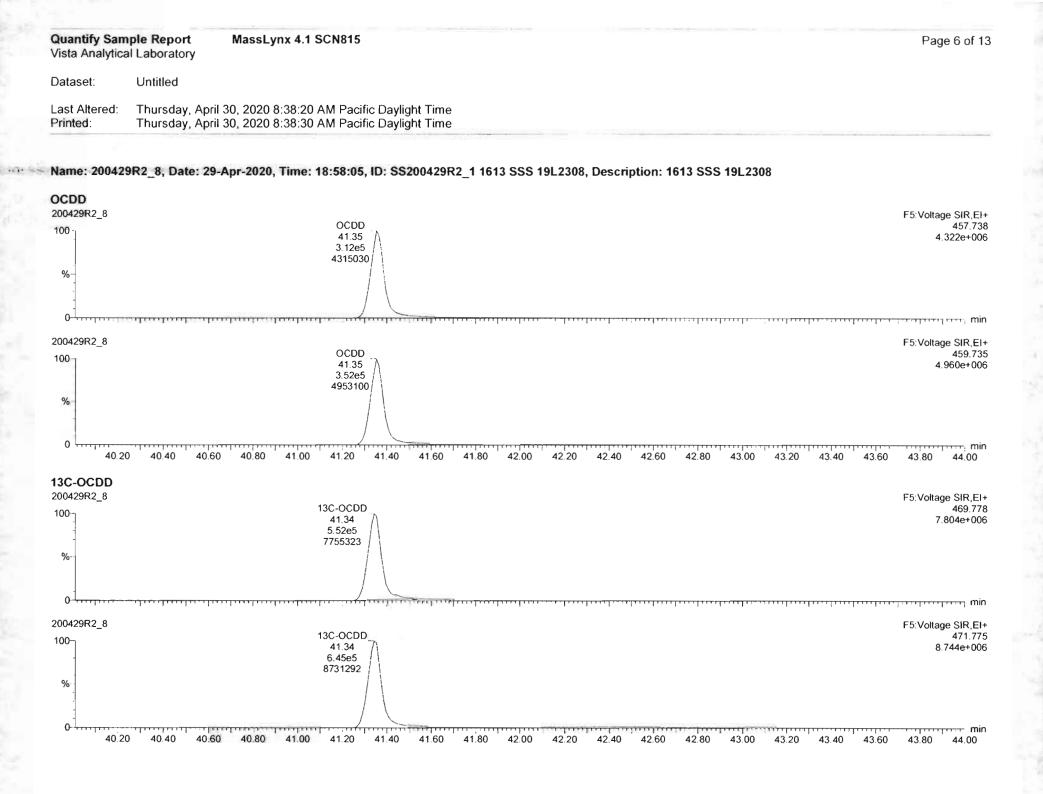
Quantify Sam Vista Analytica		Page 3 of 13
Dataset:	Untitled	
Last Altered: Printed:	Thursday, April 30, 2020 8:38:20 AM Pacific Daylight Time Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time	

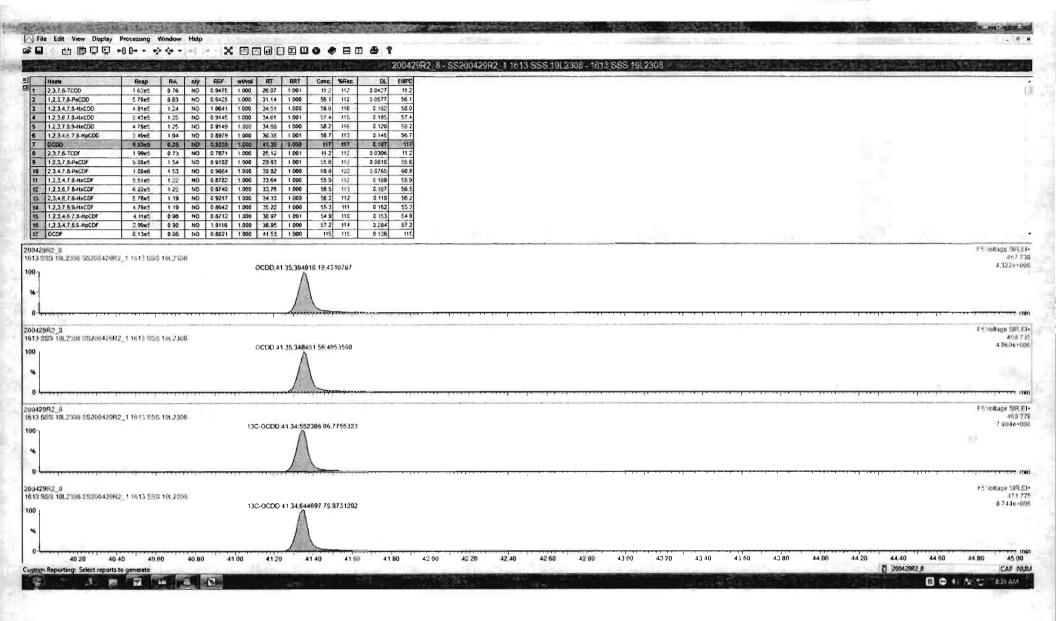




sta Analytical Laboratory	nx 4.1 SCN815		Page 5 of 13
taset: Untitled			
nted: Thursday, April 30, 2020	3:38:20 AM Pacific Daylight Time 3:38:30 AM Pacific Daylight Time		
me: 200429R2 8, Date: 29-Apr-2020.	Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Desci	iption: 1613 SSS 19L2308	
2,3,4,6,7,8-HpCDD	ovod semi osebinu zminu Church sokala 🦷 🦷		
0429R2_8		54678450D	Voltage SIR,EI+
0		3.4,6,7,8-HpCDD 38.38 1.78e5 2326941	423.777 2.342e+006
0-++++++++++++++++++++++++++++++++++++			EVoltage SIR,EI+
	1,2,3,4,6,7,8-HpCDD 38.37 1.71e5 2220317	r-	425.774 2.240e+006
6- 	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 3	יין min 9.80 40.00
C-1,2,3,4,6,7,8-HpCDD			
429R2_8	13C-1,2,3,4,6,7,8-HpCDD 38.36 3,59e5 4557237	F4	EVoltage SIR,EI+ 435.817 4.565e+006
6- - - 0	37.34 1.15e4 148892		min
429R2_8		F/	Voltage SIR,EI+
	13C-1,2,3,4,6,7,8-HpCDD 38.36 3.27e5 4222891		437.814 4.262e+006
6-	37.34		

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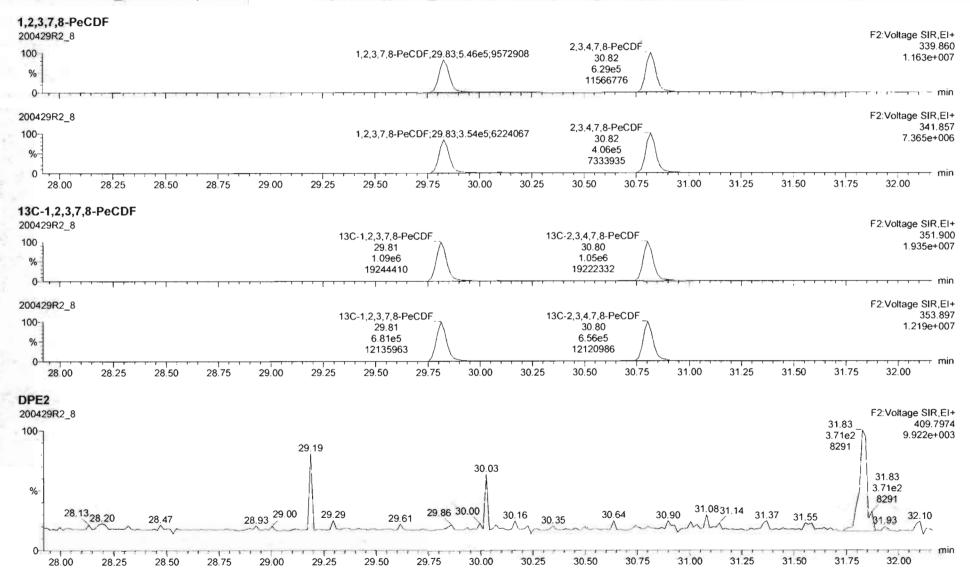


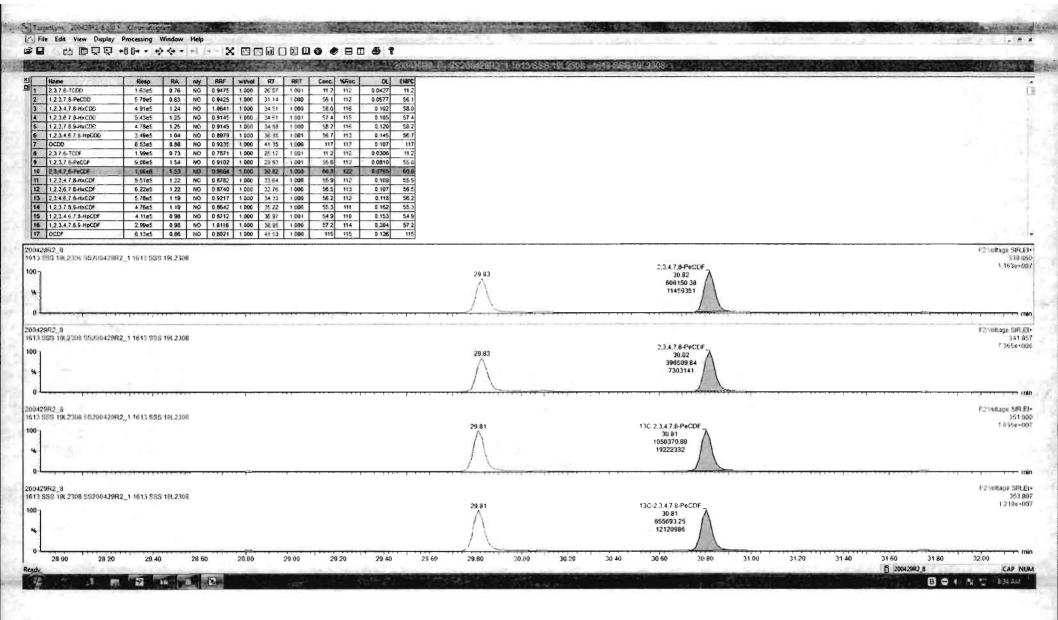


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Dataset: Untitled		
Last Altered: Thursday, April 3 Printed: Thursday, April 3	30, 2020 8:38:20 AM Pacific Daylight Time 30, 2020 8:38:30 AM Pacific Daylight Time	
	Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2	2308
2,3,7,8-TCDF 200429R2_8		F1:Voltage SIR,EI+
100	2,3,7,8-TCDF 25.12 \\	303.9016 1.112e+006
%	8.41e4 1099412	
0		
200429R2_8	2,3,7,8-TCDF	F1:Voltage SIR,EI- 305,895
100 %	25.12 1.15e5 1497720	1.513e+006
0 ⁻¹		26.00 26.50 27.00 27.50
	.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50	20.00 20.50 27.00 27.50
13C-2,3,7,8-TCDF 200429R2_8		F1:Voltage SIR,EI+
100	13C-1,2,3,4-TCDF;23.59;1.04e6;11662856 13C-2,3,7,8-TCDF ∧ 25.09 /\	315.9419 1.266e+007
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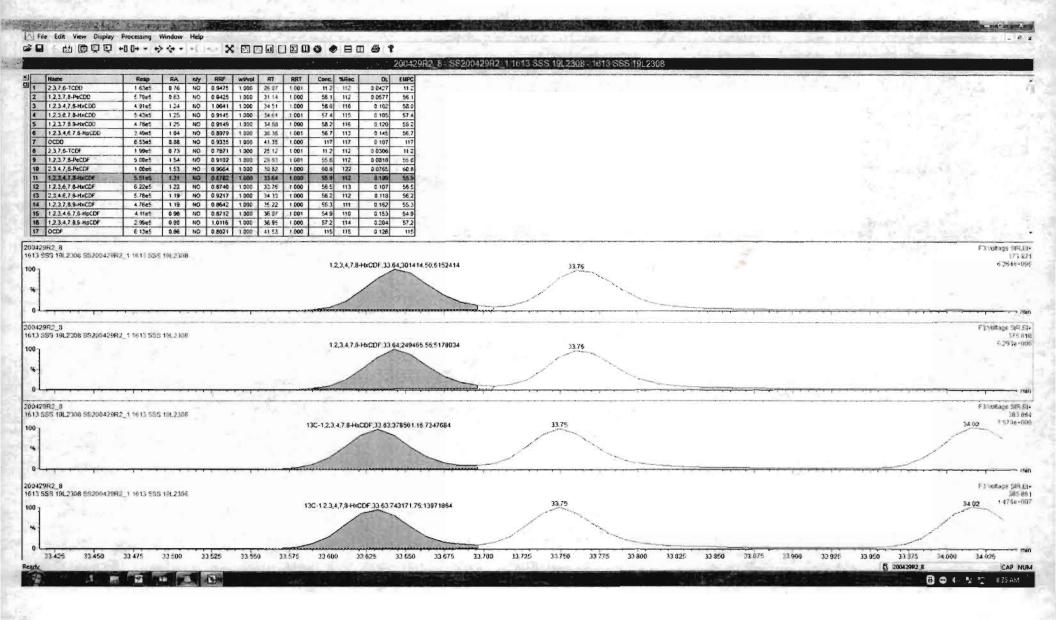


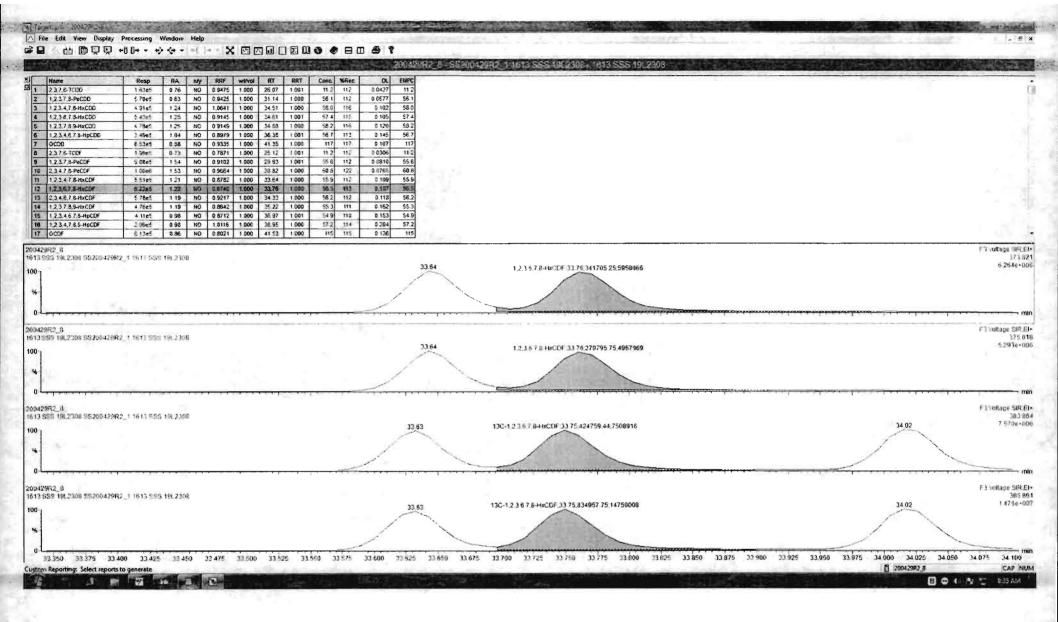


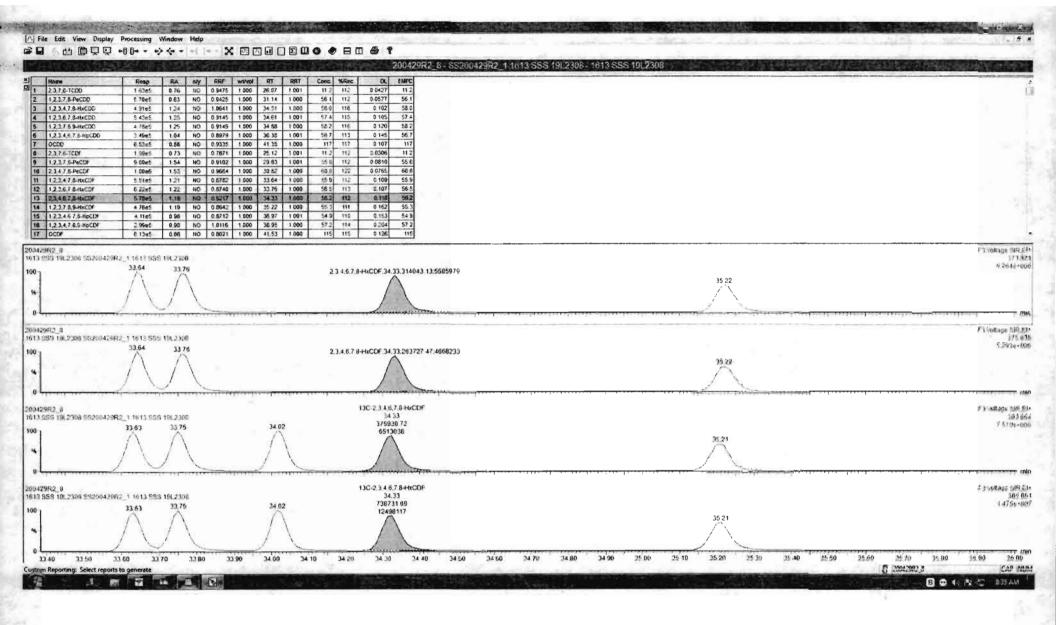
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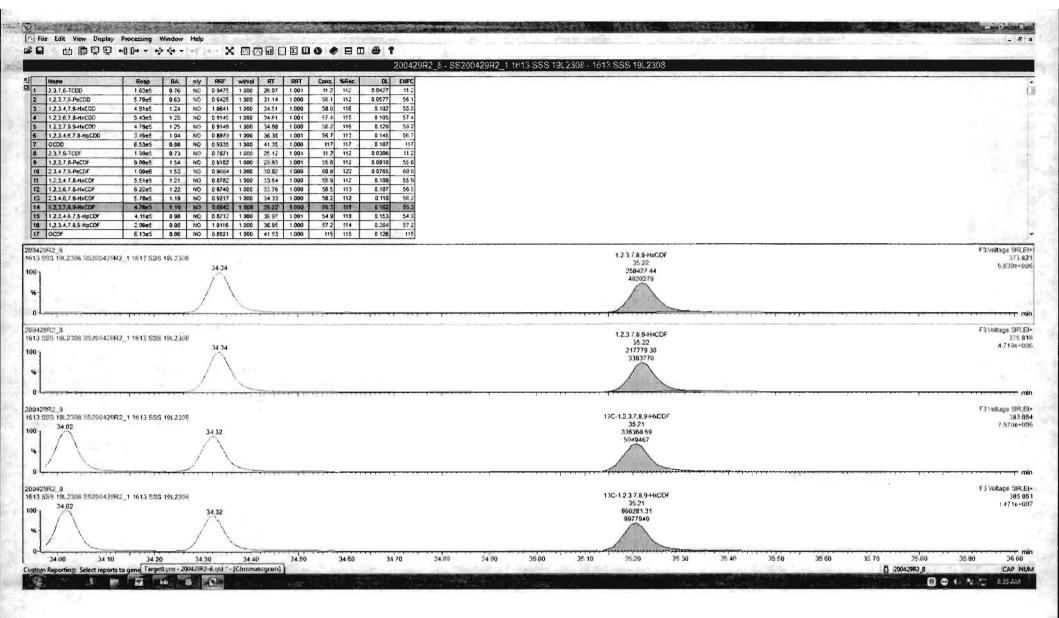


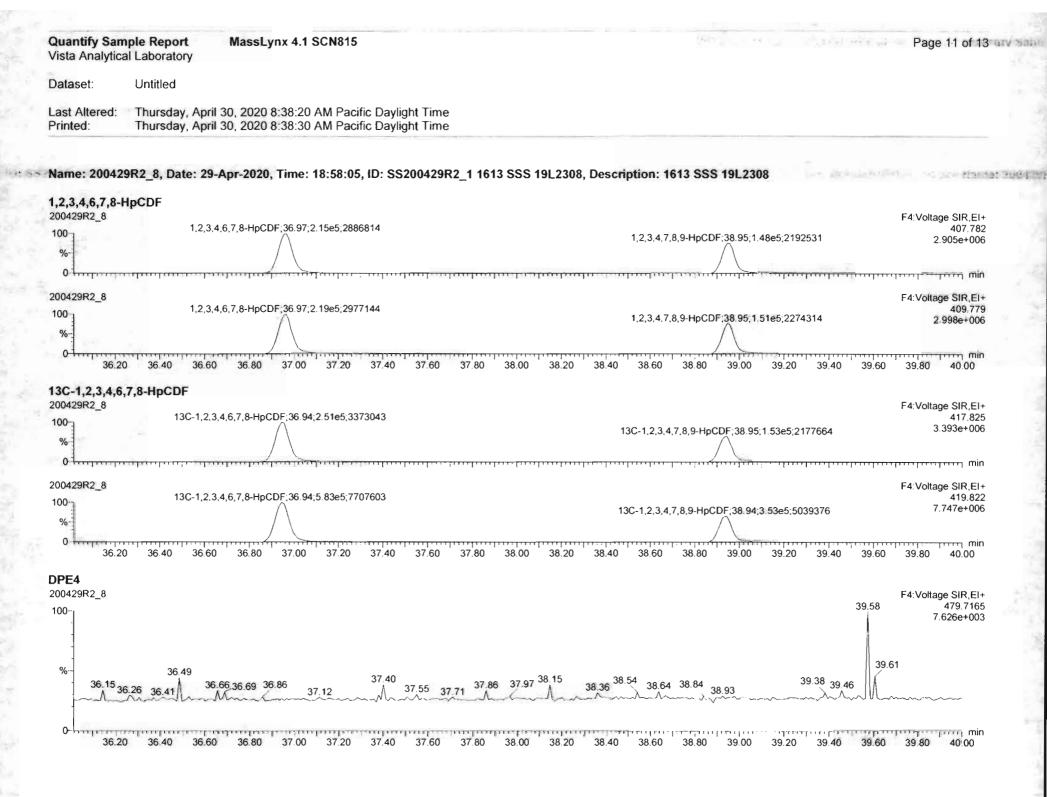
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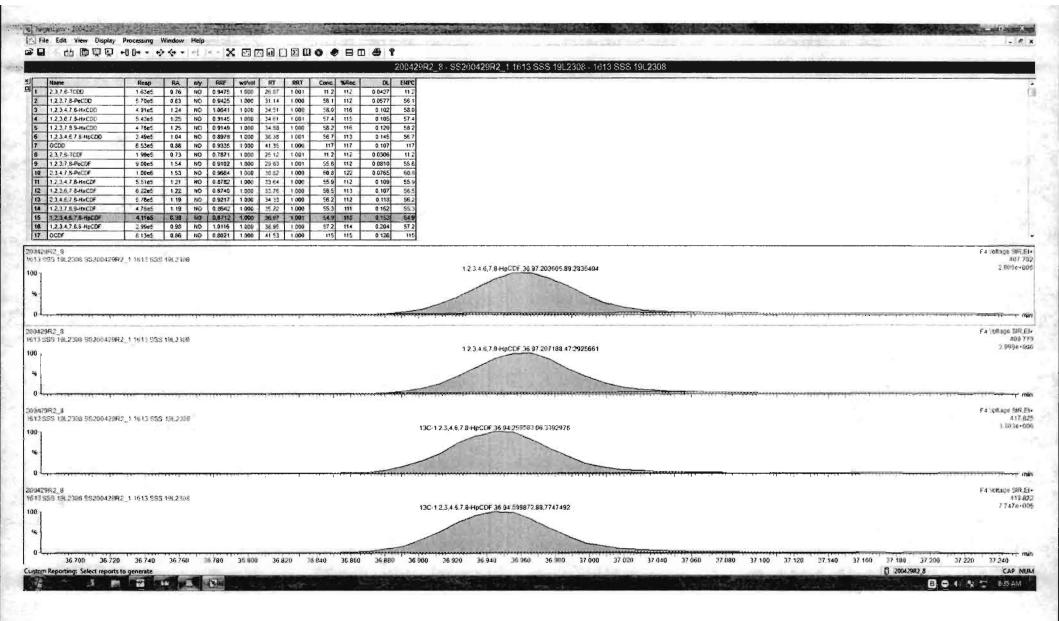


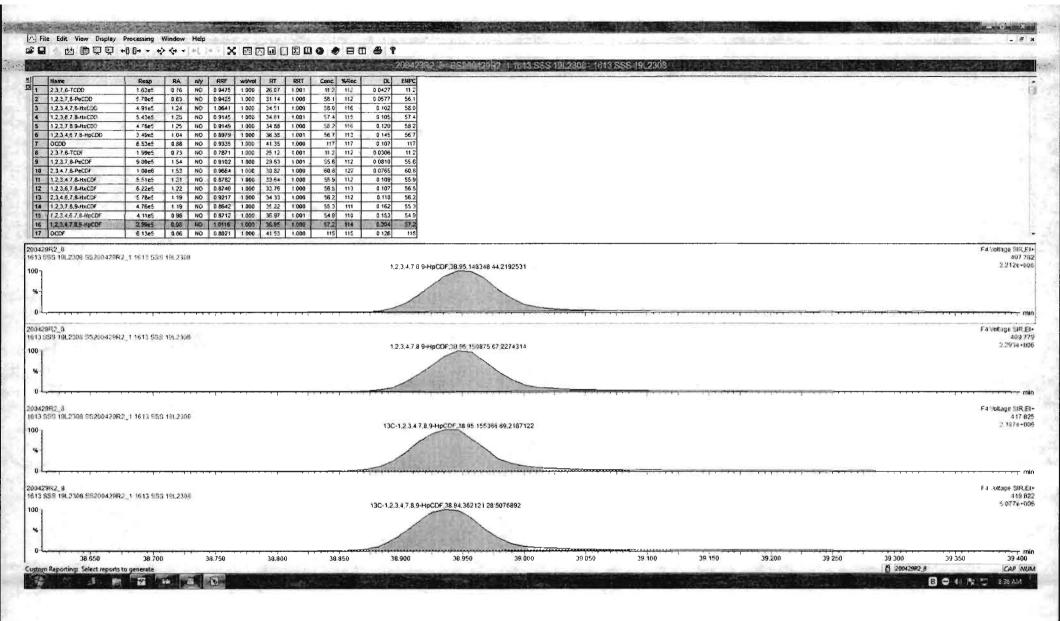






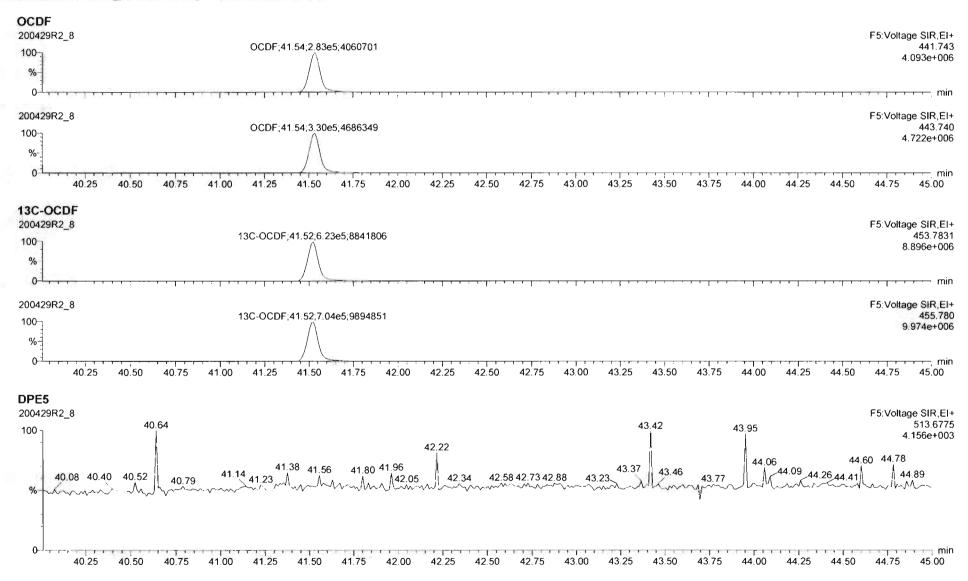






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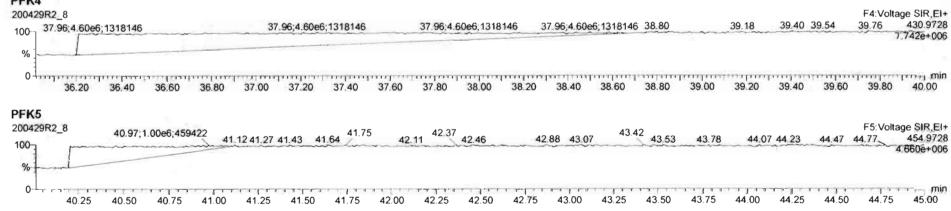


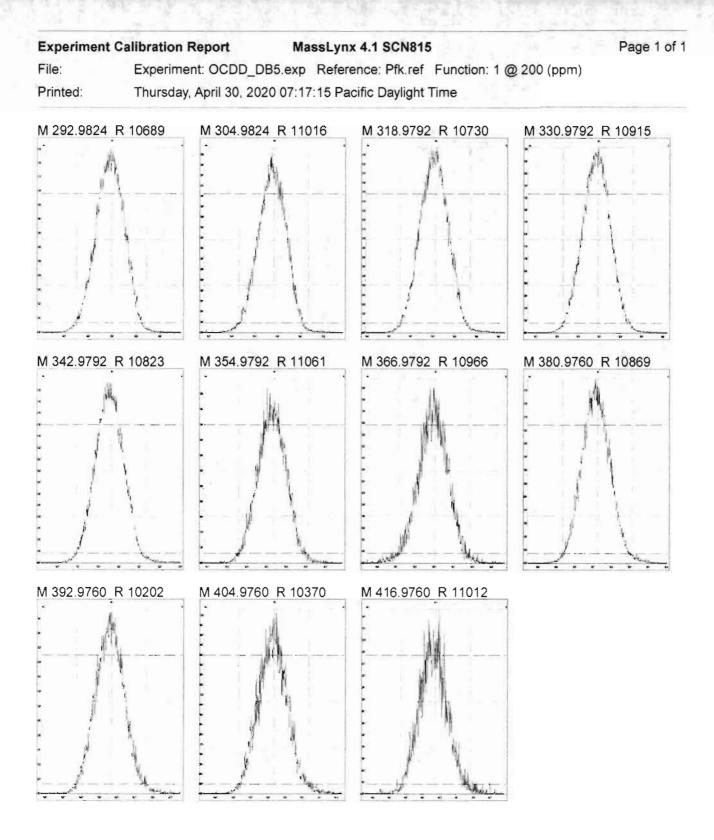
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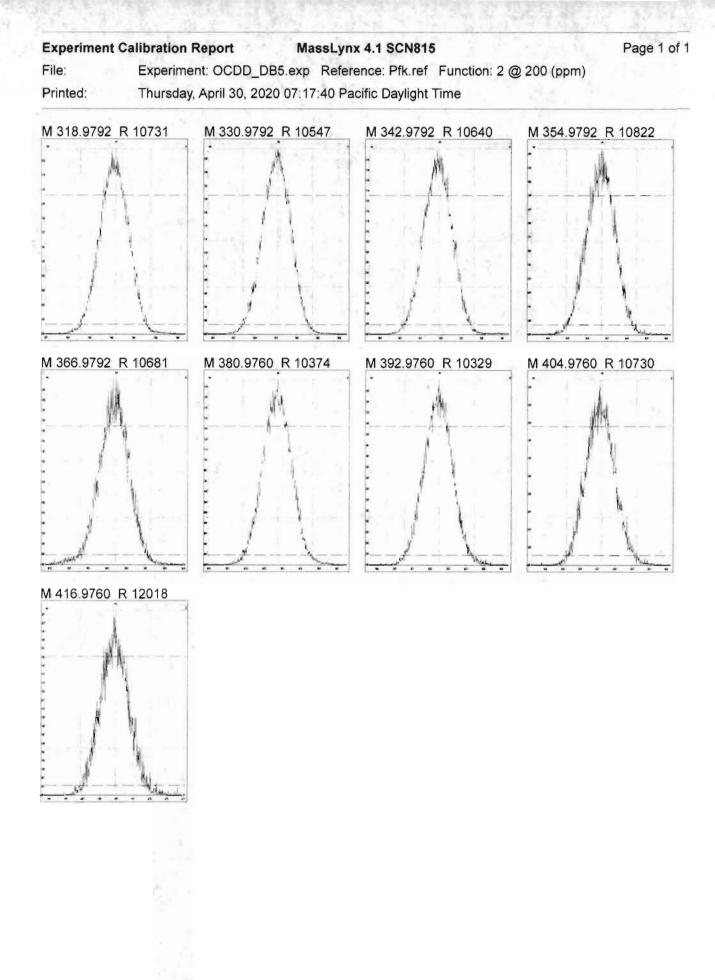
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0 19 FK2 19 19 19 19 28.03 0 28.03 0 28.03 0 28.00 FK3 10 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 28.03 0 0 0 0 0 0 0 0 0 0 0 0 0	50 20.00 20.50 	21.00 21.50 22. e6;994933	00 22.50 23.00 28.68;1.43e6;99493; 29.50 29.75	23.50 24.0 28.68;1.43e6;9 30.00 30.25	00 24.50 25.0 94933 30.65 30.70 30	0 25.50 26.00	26.50 27.0 1 31.45 31.52 31 31.50 31	0 27.50 F2: Voltage SIR,E 31.92 366.979 2.350e+00

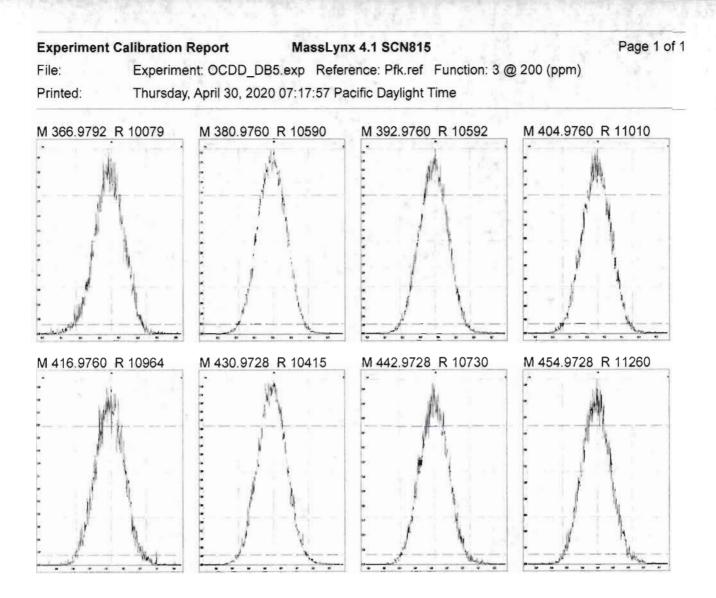
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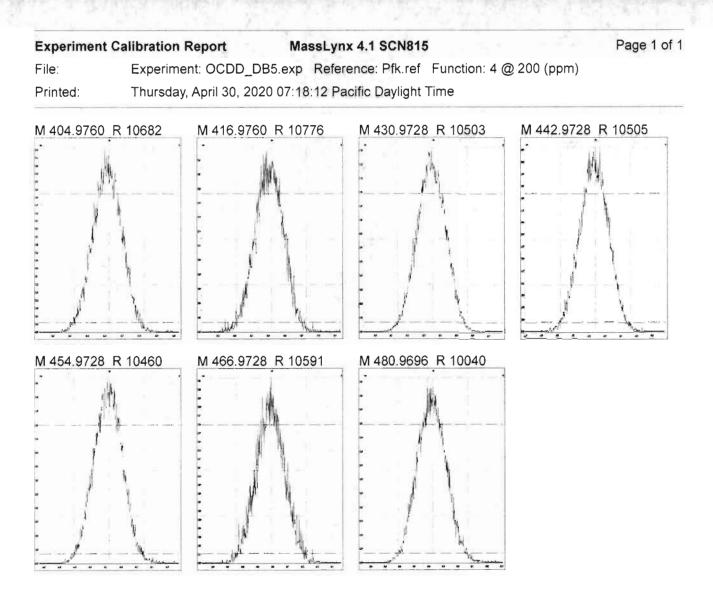
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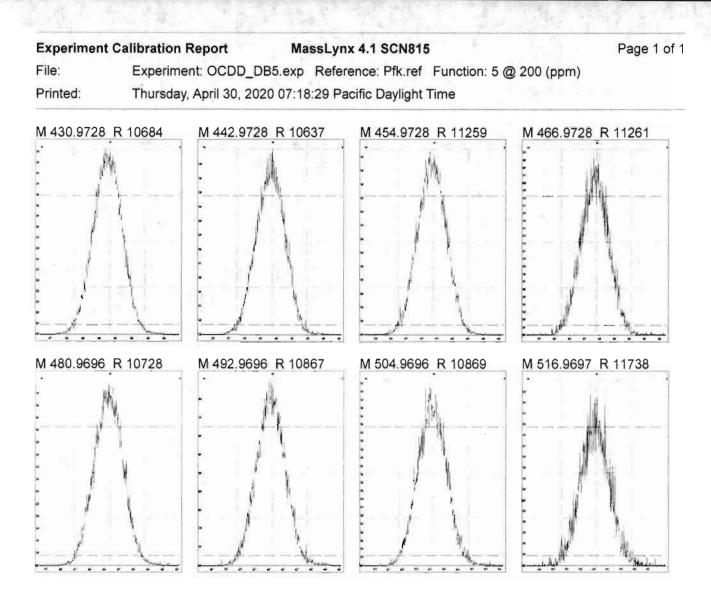












Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld
Last Altered:	Thursday, May 28, 2020 4:52:08 PM Pacific Daylight Time
Printed:	Friday, May 29, 2020 7:37:47 AM Pacific Daylight Time

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

State 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

Page 1 of 16

688 05/29/2020 Ci 05/29/2020

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

3200	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 e 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

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

Compound name: 1,2,3,7,8,9-HxCDD Response Factor: 0.886936

RRF SD: 0.0582559, Relative SD: 6.56822 Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area) Curve type: RF

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

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

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

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

Compound name: 1,2,3,4,6,7,8-HpCDD Response Factor: 0.863903 RRF SD: 0.0694586, Relative SD: 8.04009 Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area) Curve type: RF

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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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

1000	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

Page 4 of 16

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

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

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

12 194	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.25	NO	33.99	1.001	8.98e3	9.42e5	1.08	-13.8	0.762	bd
2	200528R2_2	2.50	1.19	NO	33.99	1.000	1.81e4	8.49e5	2.41	-3.7	0.852	bd
3	200528R2_3	10.0	1.22	NO	34.01	1.001	7.91e4	8.47e5	10.6	5.6	0.934	bd
4	200528R2_4	200	1.18	NO	33.99	1.000	1.87e6	1.02e6	208	3.9	0.919	bd
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bd
6	200528R2_6	50.0	1.21	NO	34.01	1.000	3.56e5	7.87e5	51.1	2.2	0.904	bd

Compound name: 1,2,3,6,7,8-HxCDF Response Factor: 0.889174 RRF SD: 0.0479606, Relative SD: 5.39384 Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area) Curve type: RF

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

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

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

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

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

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

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

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

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 e 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

in the second	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	bđ
2	200528R2_2	100	1.28	NO	34.87	1.014	6.46e5	9.66e5	85.9	-14.1	0.669	bd

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-HxCDD

120	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

1999	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

- M S.	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

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

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

Compound name: 13C-1,2,3,4,6,7,8-HpCDD Response Factor: 0.689179 RRF SD: 0.0899136, Relative SD: 13.0465 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

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

Compound name: 13C-OCDD Response Factor: 0.652099 RRF SD: 0.111511, Relative SD: 17.1002 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area) Curve type: RF

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

Compound name: 13C-2,3,7,8-TCDF Response Factor: 1.05898 RRF SD: 0.0854755, Relative SD: 8.07146 Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area) Curve type: RF

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

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-2,3,7,8-TCDF

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82.8	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

23.4	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 e 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	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 e 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

Page 11 of 16

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

T TENA	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

1000	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

1000	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

Work Order 2001005

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

2125	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 3	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

110	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.44	NO	37.37	1.087	7.13e5	8.40e5	110	9.6	0.849	bd
2	200528R2_2	100	0.42	NO	37.38	1.087	6.49e5	9.66e5	86.7	-13.3	0.672	bb
3	200528R2_3	100	0.44	NO	37.38	1.087	6.48e5	9.75e5	85.9	-14.1	0.665	bd
4	200528R2_4	100	0.44	NO	37.38	1.087	7.67e5	9.81e5	101	0.9	0.782	bb
5	200528R2_5	100	0.44	NO	37.39	1.087	9.39e5	1.01e6	120	19.9	0.928	bd
6	200528R2_6	100	0.43	NO	37.39	1.087	5.89e5	7.84e5	97.0	-3.0	0.751	bb

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

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

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

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

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

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

1.00	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

Page 14 of 16

Quantify Compound Summary Report Vista Analytical Laboratory MassLynx 4.1 SCN815

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

1.5.15	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	

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

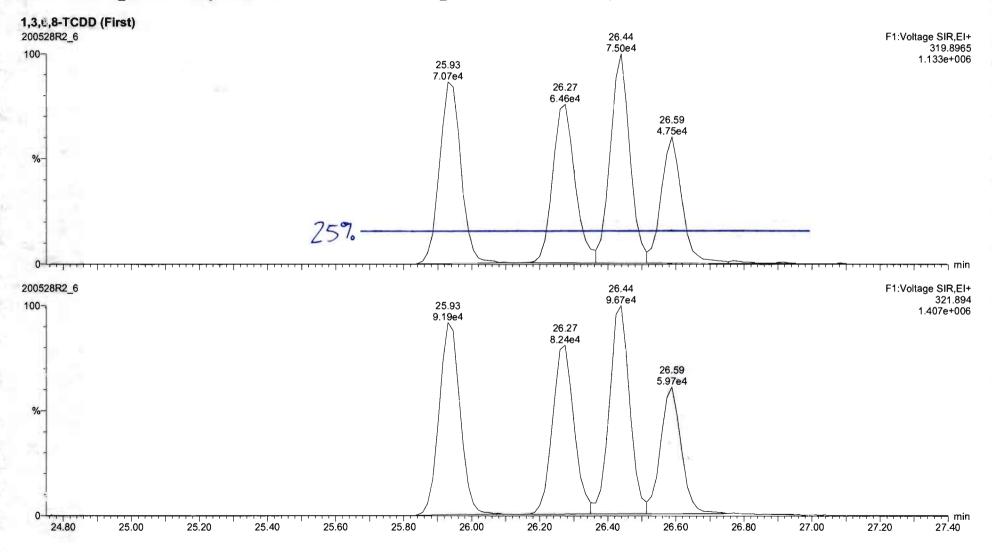
Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.59
2	2 1,2,8,9-TCDD (Last)	27.53
3	3 1,2,4,7,9-PeCDD (First)	29.32
4	4 1,2,3,8,9-PeCDD (Last)	31.89
5	5 1,2,4,6,7,9-HxCDD (First)	33.39
6	6 1,2,3,7,8,9-HxCDD (Last)	35.27
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.81
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.81
9	9 1,3,6,8-TCDF (First)	20.44
10	10 1,2,8,9-TCDF (Last)	27.68
11	11 1,3,4,6,8-PeCDF (First)	27.64
12	12 1,2,3,8,9-PeCDF (Last)	32.14
13	13 1,2,3,4,6,8-HxCDF (First)	32.83
14	14 1,2,3,7,8,9-HxCDF (Last)	35.63
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.41
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.34

Quantify San Vista Analytica	aple Report MassLynx 4.1 SCN815 al 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	GRB 05/29/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200528R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: Untitled

Last Altered:	Friday, May 29, 2020 8:08:41 AM Pacific Daylight Time
Printed:	Friday, May 29, 2020 8:08:46 AM Pacific Daylight Time

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

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

	Name	ID	Acq.Date	Acq.Time	
1	200528R2_1	ST200528R2_1 1613 CS0 19L2302	28-May-20	11:53:52	
2	200528R2_2	ST200528R2_2 1613 CS1 19L2303	28-May-20	12:41:31	
3	200528R2_3	ST200528R2_3 1613 CS2 19L2304	28-May-20	13:28.43	
4	200528R2_4	ST200528R2_4 1613 CS4 19L2306	28-May-20	14:15:50	
5	200528R2_5	ST200528R2_5 1613 CS5 19L2307	28-May-20	15:02:56	
6	200528R2_6	ST200528R2_6 1613 CS3 19L2305	28-May-20	15:50:32	
7	200528R2_7	SOLVENT BLANK	28-May-20	16:37:46	
8.	200528R2_8	SS200528R2_1 1613 SSS 19L2308	28-May-20	17:24:01	
9	200528R2_9	B0E0131-BS1 OPR 1	28-May-20	18:10:13	
10	200528R2_10	B0E0165-BS1 OPR 1	28-May-20	18:56:26	
11	200528R2_11	B0E0127-BS1 OPR 1	28-May-20	19:42:36	
12	200528R2_12	B0E0180-BS1 OPR 10	28-May-20	20:28:48	
13	200528R2_13	SOLVENT BLANK	28-May-20	21:15:00	
14	200528R2_14	B0E0180-BLK1 Method Blank 10	28-May-20	22:01:12	
15	200528R2_15	B0E0131-BLK1 Method Blank 1	28-May-20	22:47:24	
16	200528R2_16	B0E0165-BLK1 Method Blank 1	28-May-20	23:33:37	
17	200528R2_17	B0E0127-BLK1 Method Blank 1	29-May-20	00:19:48	
18	200528R2_18	2001052-01 ZID-001 1.00002	29-May-20	01:06:00	
19	200528R2_19	2001031-01 Forebay Composite (24hr) 0.95078	29-May-20	01:52:12	
20	200528R2_20	2001092-01 OF-031A BiWeekly Composite D/	29-May-20	02:38:24	

Page 1 of 1

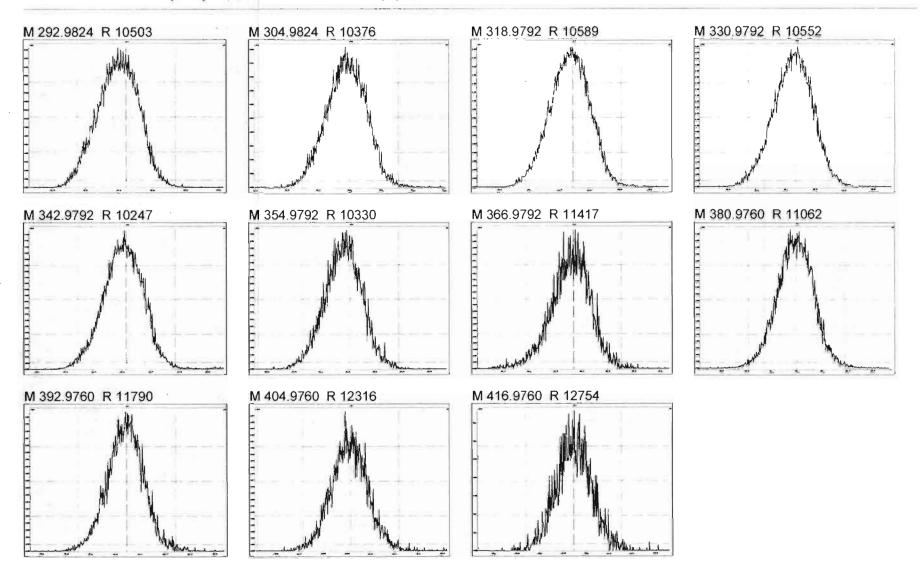
Experiment Calibration Report

MassLynx 4.1 SCN815

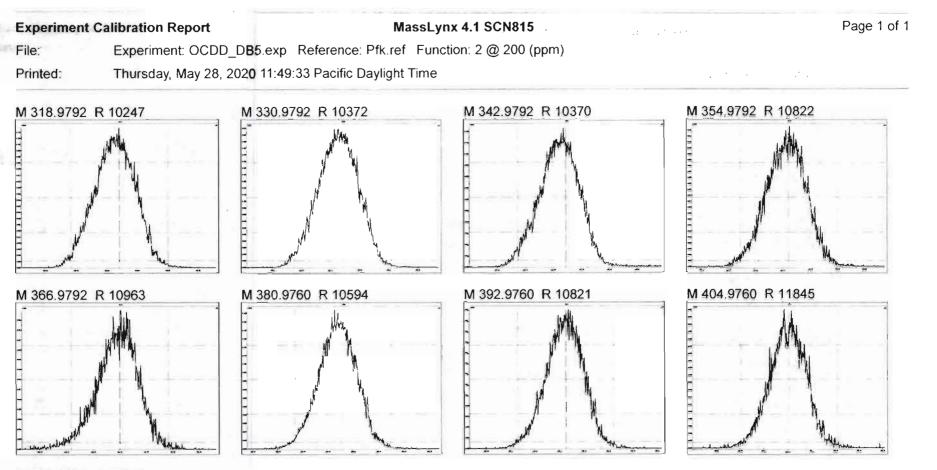
Page 1 of 1

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

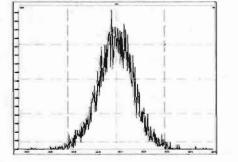
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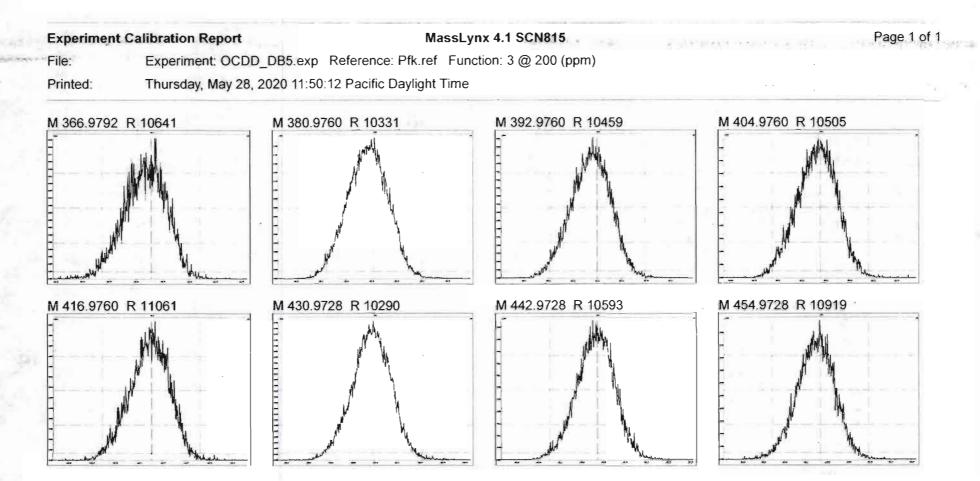


Work Order 2001005



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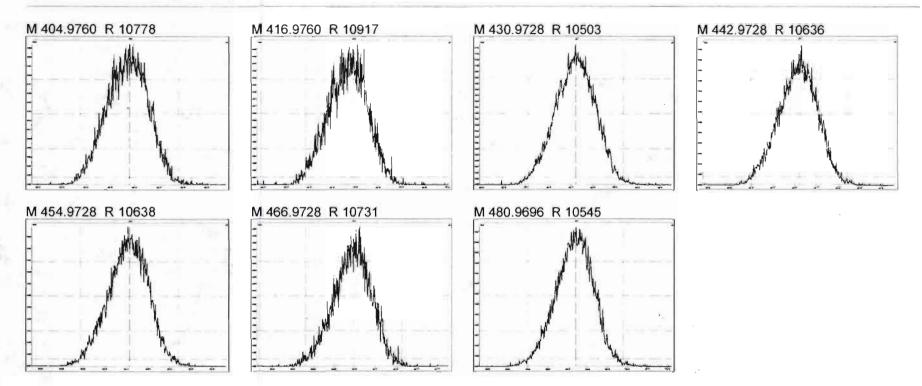
Experiment Calibration Report

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

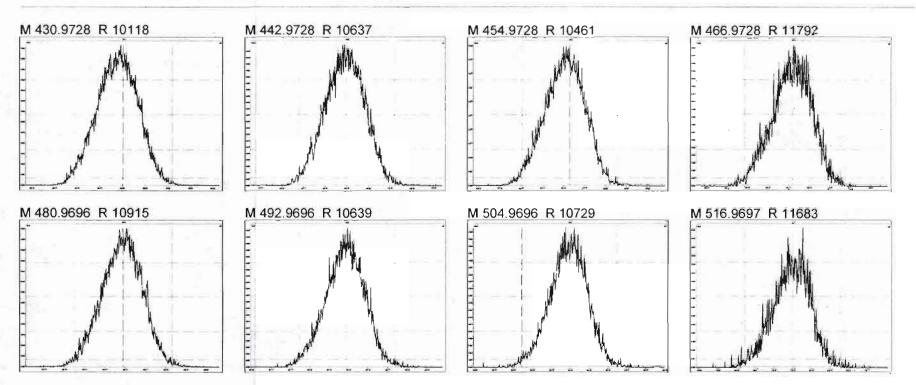
MassLynx 4.1 SCN815

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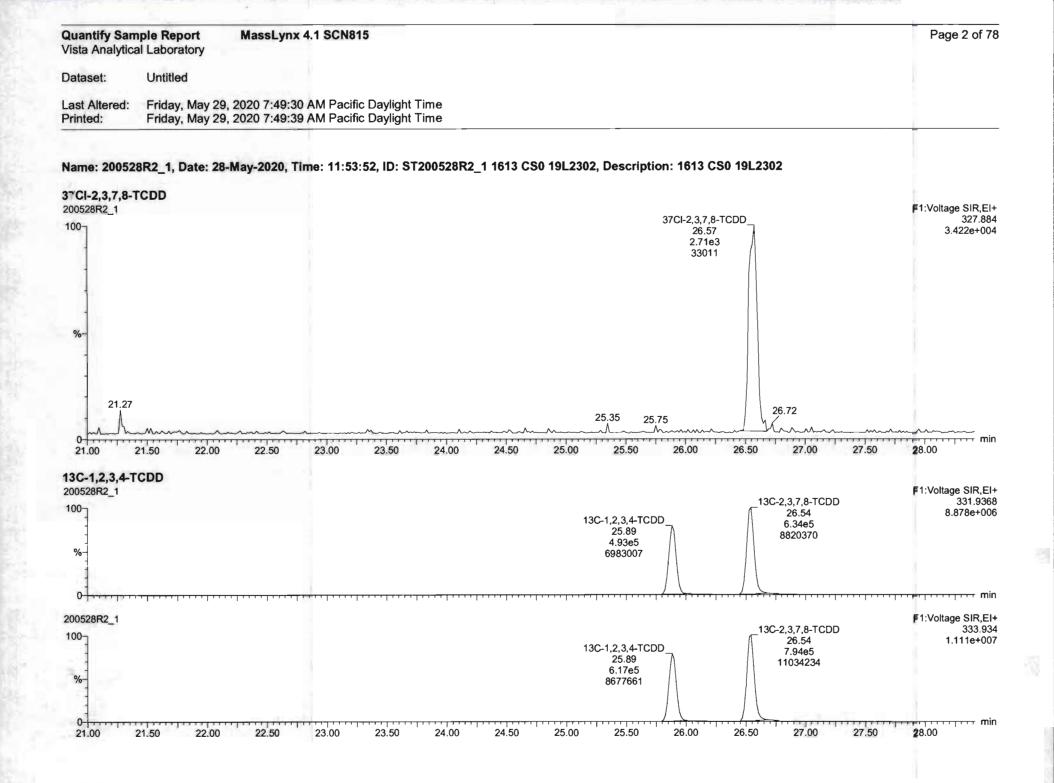
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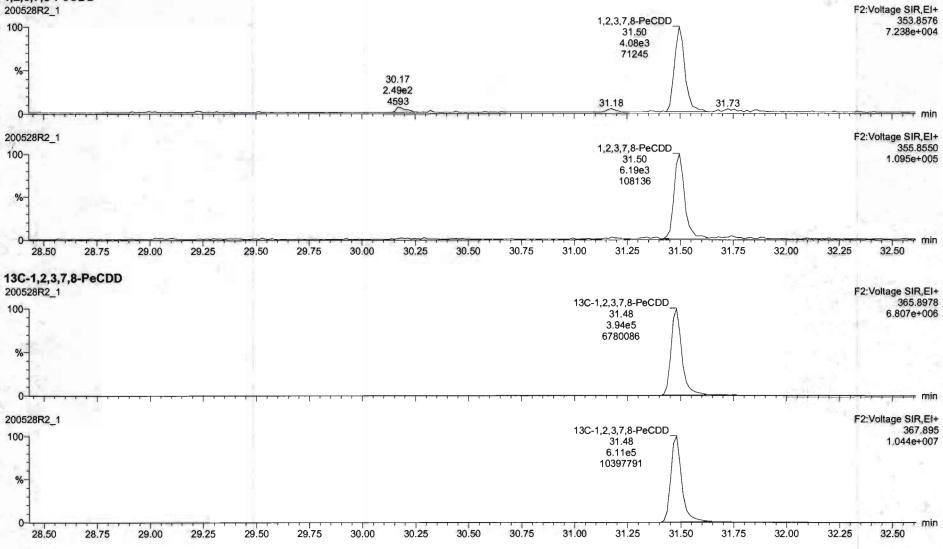
Thursday, May 28, 2020 11:51:45 Pacific Daylight Time



	nple Report al Laboratory	MassLynx 4.1 SCN	315						Page 1 of 7
ataset:	Untitled								
ast Altered: rinted:	Friday, May 29, Friday, May 29,	2020 7:49:30 AM Pac 2020 7:49:39 AM Pac	fic Daylight Time fic Daylight Time						
	/G12.PRO\MethD 29 May 2020 07:4	B\1613rrt-05-26-20.m 9:30	db 26 May 2020 10:	34:17					
ame: 20052	8R2_1, Date: 28-	May-2020, Time: 11:5	3:52, ID: ST200528	R2_1 1613 CS0 19I	2302, Description	n: 1613 CS0 19	L2302		
,3,7,8-TCDD									
00528R2_1					25.66 2.29e2	2,3,7,8-TCDD_ 26.54 1.09e3 16198			F1:Voltage SIR,E 319.890 1.766e+00
21.27	21.33 21.77 21.86 22	2.23 22.49 22.91 23.24	23.43 23.65 23.83	24.21 24.36 24.73 24.	3319	26.15	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		2,3,7,8-TCDD 26.57 1.61e3 24757 26.15	26.93 27.13	27.56	321.8 2.625e+0
official	21.50 21.98 77 21.50 22.00	22.85	24. 	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	.00 25.50	26.57 1.61e3 24757	26.93 27.13	27.56	28.00
% 21.27 0 21.00 3 C-2,3,7,8-T 00528R2_1	21.50 22.00			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	13C-1,2,3,4-TCDD 25.89 4.93e5	26.57 1.61e3 24757 26.15	26.93 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 22.00			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	13C-1,2,3,4-TCDD 25.89	26.57 1.61e3 24757 26.15	26.93 27.13 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 22.00			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	13C-1,2,3,4-TCDD 25.89 4.93e5	26.57 1.61e3 24757 26.15 26.00 26.5	26.93 27.13 50 27.00 13C-2,3,7,8-TCDD 26.54 6.34e5	27.50	321.8 2.625e+0 28.00 F1:Voltage SIR,E 331.93 8.878e+0

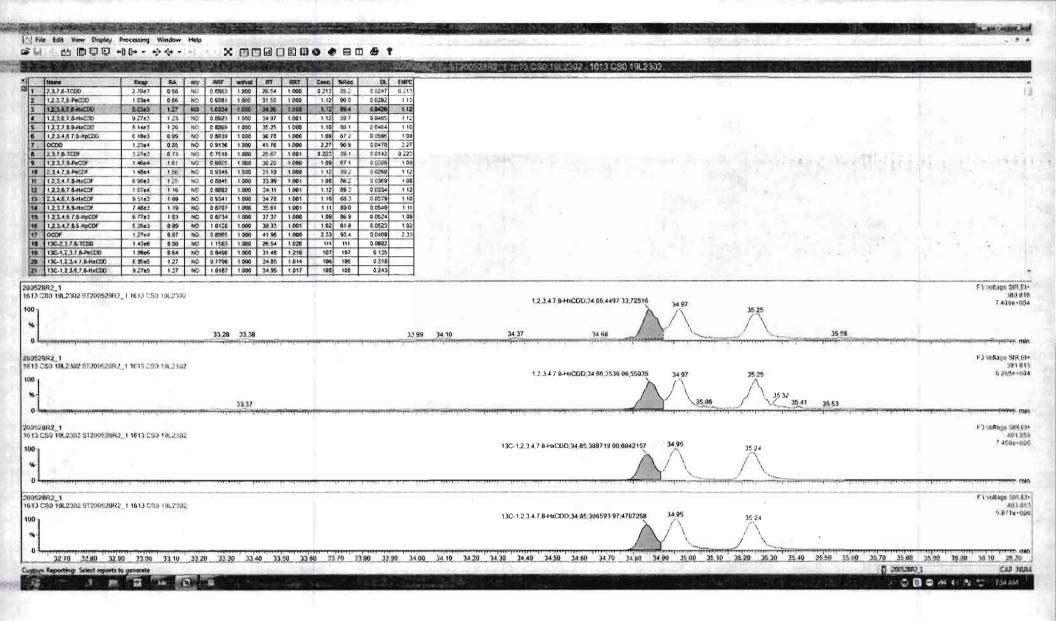


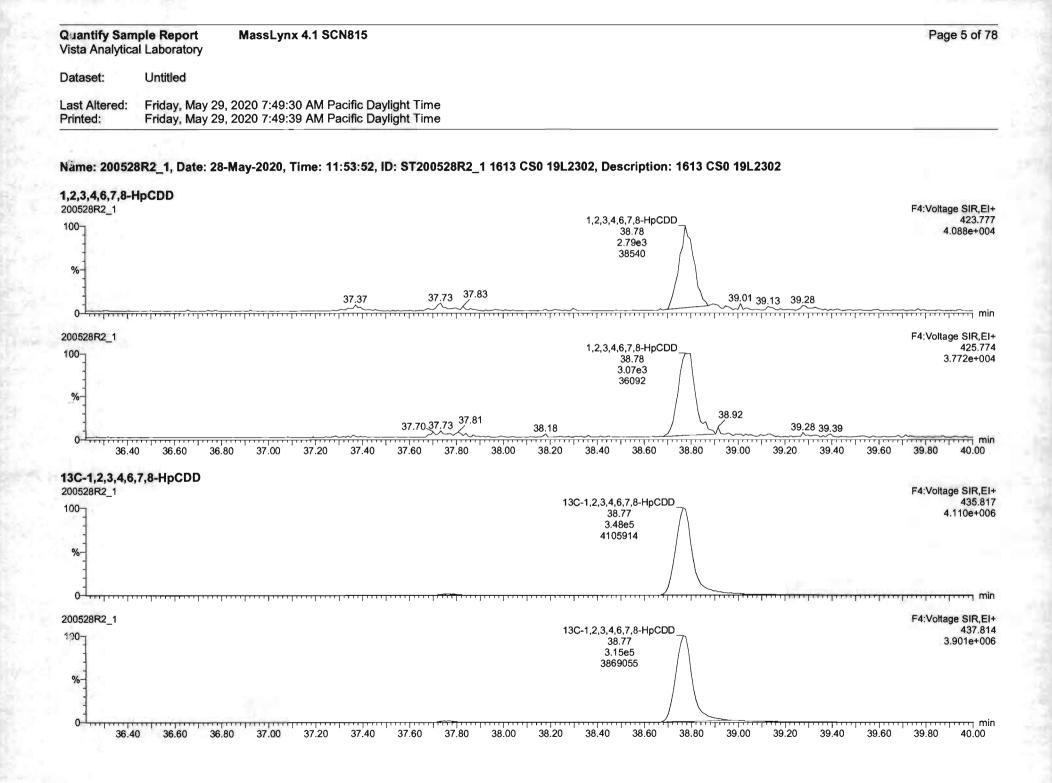
Quantify Sam Vista Analytica		Page 3 of 78
Dataset:	Untitled	
Last Altered: Printed:	Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time	

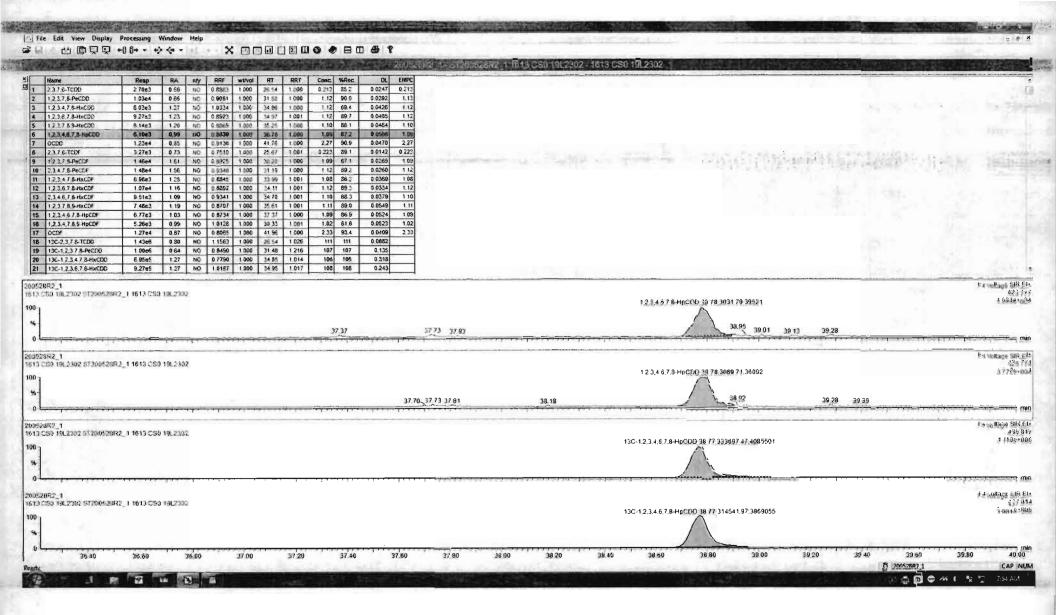


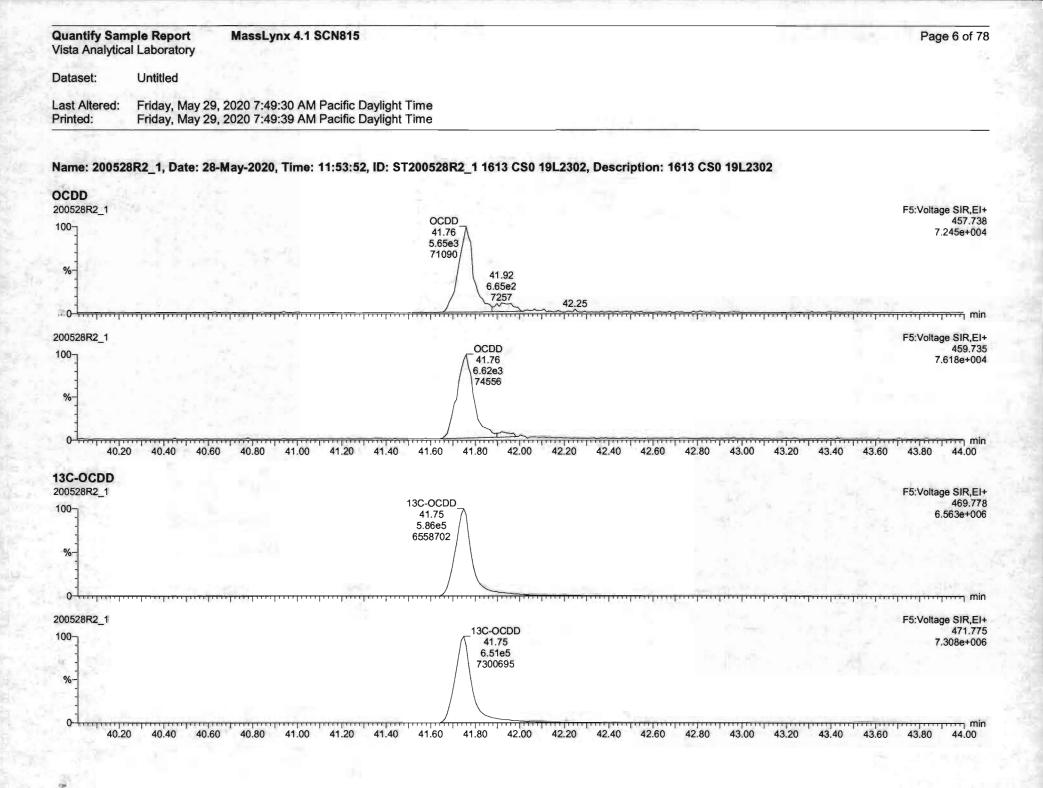
uantify Sample ista Analytical La		MassLynx 4.	.1 SCN815					Page 4 of 7
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			AM Pacific Daylight Time AM Pacific Daylight Time					
	uay, way 29	, 2020 7.49.39 P		,				
ame: 200528P2	1 Date: 28	May 2020 Tim		528R2_1 1613 CS0 19L2	202 Decoription	. 1812 CS0 401 22	02	
		-way-2020, 1111	ie. 11.33.32, ib. 31200	52012_1 1013 C30 1922	302, Description	1. 1013 030 19223	02	
2,3,4,7,8-HxCDE)							F3:Voltage SIR,EI
E ⁰⁰						1,2,3,6,7,8-HxCDD;3	4.97;5.11e3;72086	389.81 7.486e+00
%_								1
1			22.20			ΙY		
0	Tanta	mmini	33.28 33.38	33.99 34.10	34.37	34.68		35.56
00528R2_1		, , ,						F3:Voltage SIR,EI
007						1,2,3,6,7,8-HxCDD;3	4.97;4.16e3;61002	391.81 6.266e+00
						$\wedge \wedge$	1,2,3,7	,8,9-HxCDD
%-						$/ \setminus /$	35.06	35.25 3.70e3
1						/ Y		59648
07	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		33.37			4.60 34.80 35	K / h	35.53 mi
32.40 32	2.60 32.80	33.00 33	3.20 33.40 33.60	33.80 34.00 34.2	0 34.40 34	4.60 34.80 35	.00 35.20 35.4	0 35.60 35.80
3C-1,2,3,4,7,8-H)	KCDD							
00-					13	3C-1,2,3,6,7,8-HxCDD;34	4.95;5.18e5;7356837	F3:Voltage SIR,EI 401.85
					13C-1,2,3,	4,7,8-HxCDD	Δ	7.458e+00
%					3.	.89e5 42157	/\-	
1					00		())	
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N628P2 1					13	3C-1,2,3,6,7,8-HxCDD;34	4.95;4.09e5;5887449	F3:Voltage SIR,E 403.85
					13C-1,2,3,	4,7,8-HxCDD	٨	5.971e+00
00528R2_1					3.	14.85 .07e5		1.1.1
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-00					47	87258		

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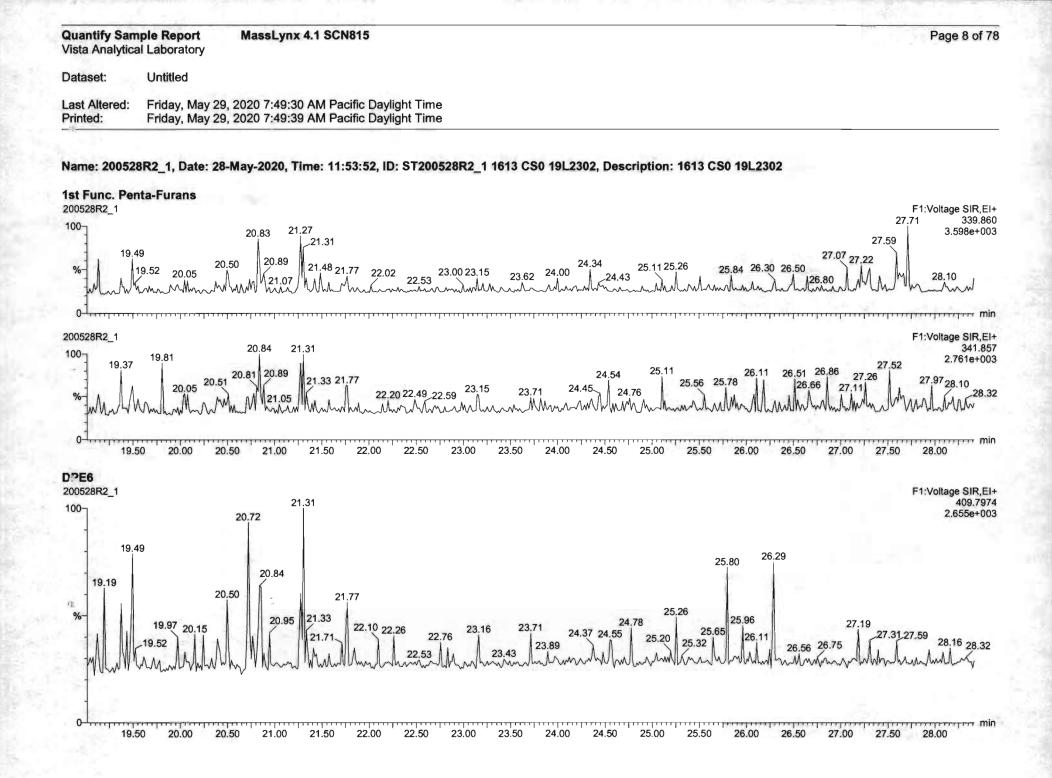
	1000									and the second se	R2_1-S	T209528R2	1.649/080	912802. 10	13 0,50 191	2302	10.00		1.1.1	-	1411.41	Same and	STATES	STATILE S	
lame	Resp	RA	nty Fi	RF W	Nol R	T R	RTC	onc %fie	c	DL ENPC						-									-
3.7.6-1000	2 70e3	0 68				and the second		213 35.																	
2.3.7.8-PeCDD	1.03e4	0.86			000 31			1.12 90 0																	
2.3.4.7 6-HACOD	8.03e3				000 34			1.12 69.4	0.04									1.26				1000	1. 2. 1. 16		
2.3.8 7 8-HxCDD	9.2783	1.23	NO CB		000 34			1 12 897																	
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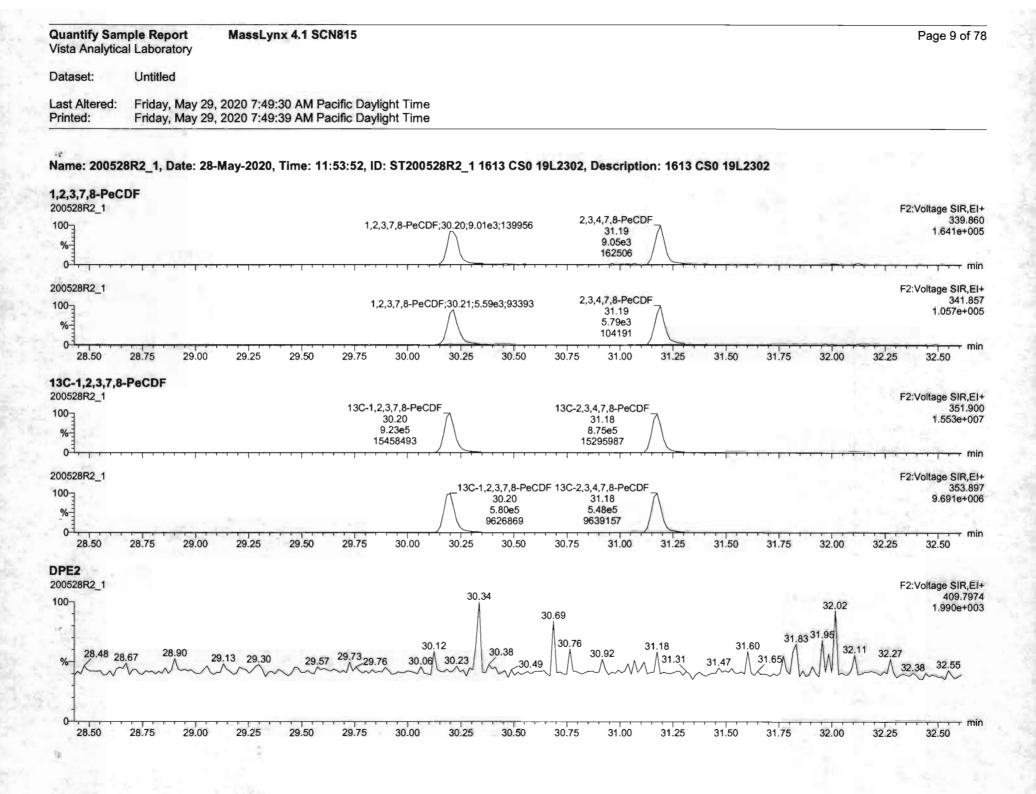
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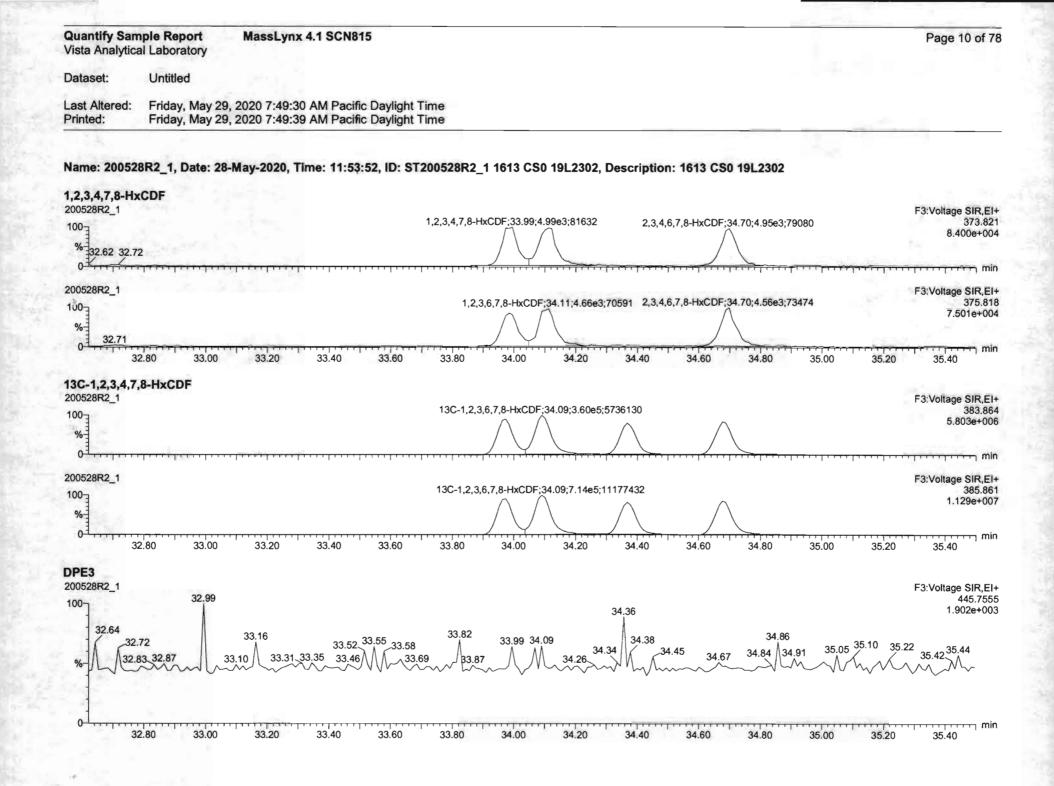
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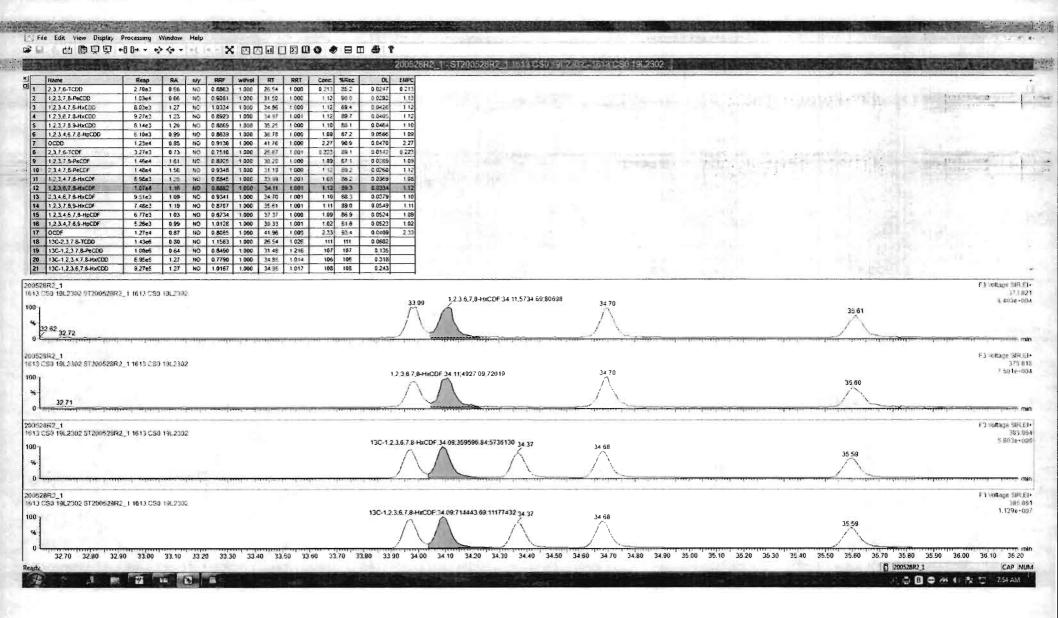


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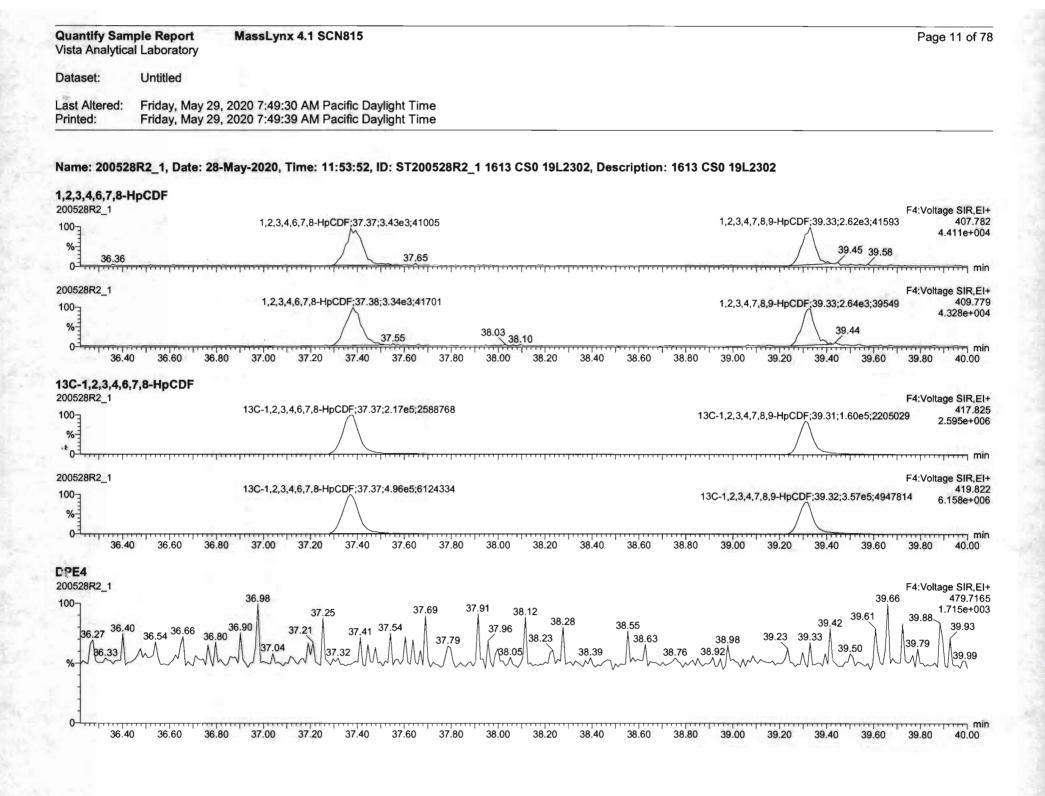


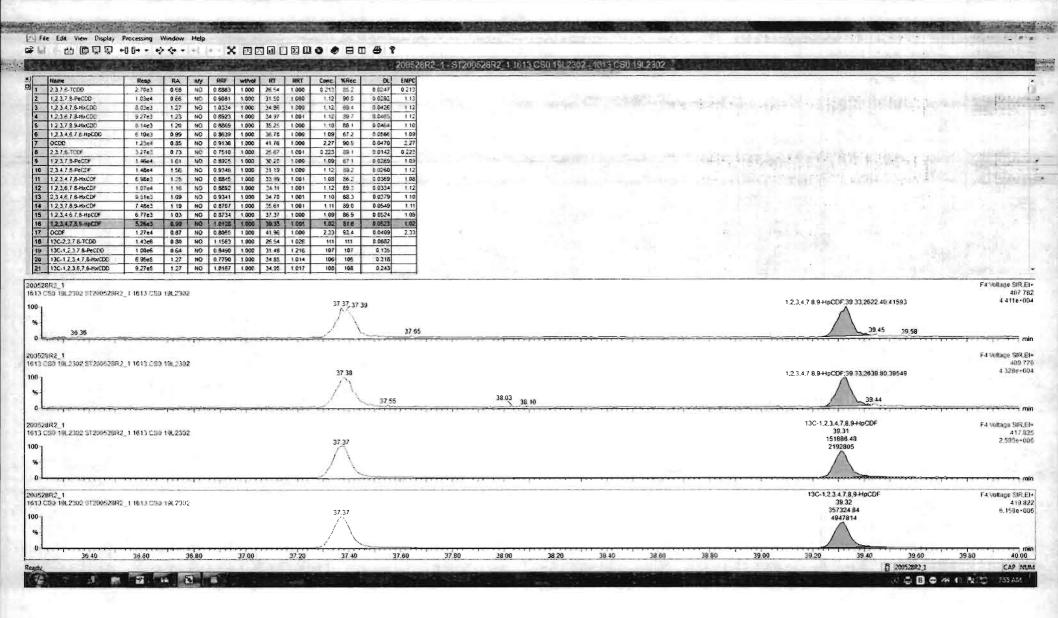
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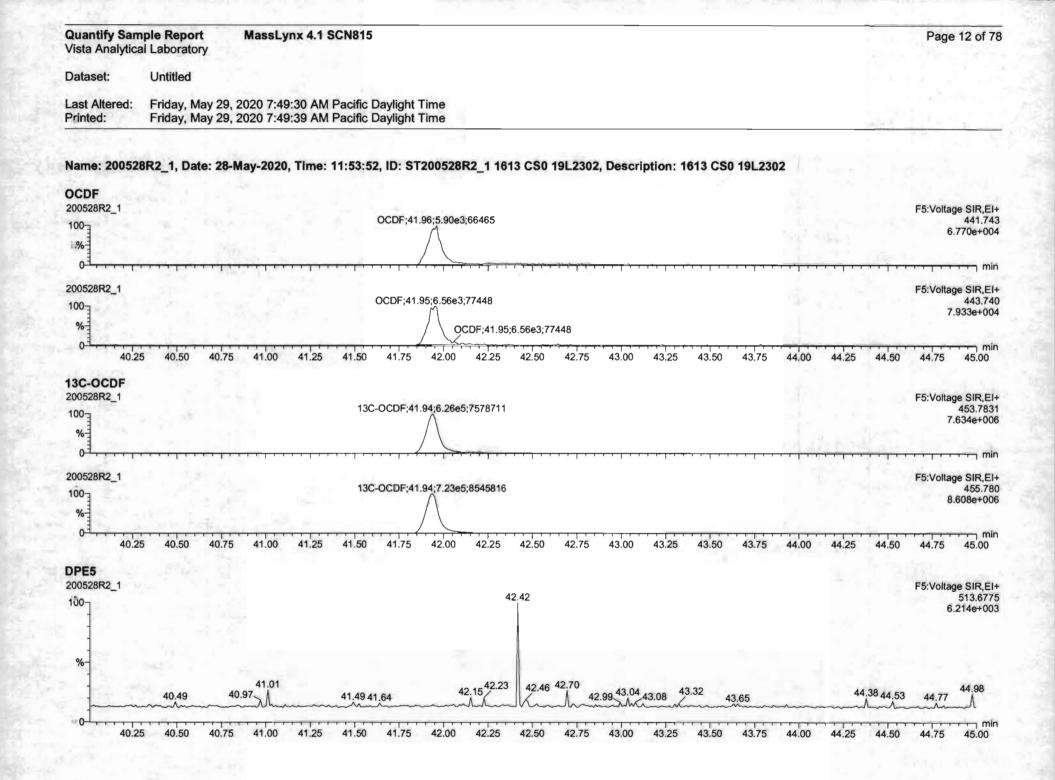


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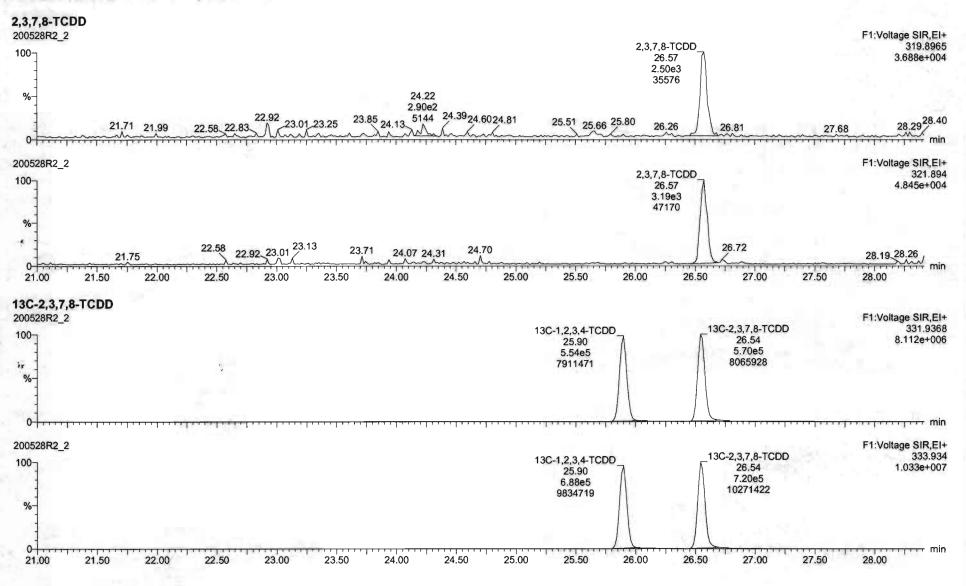
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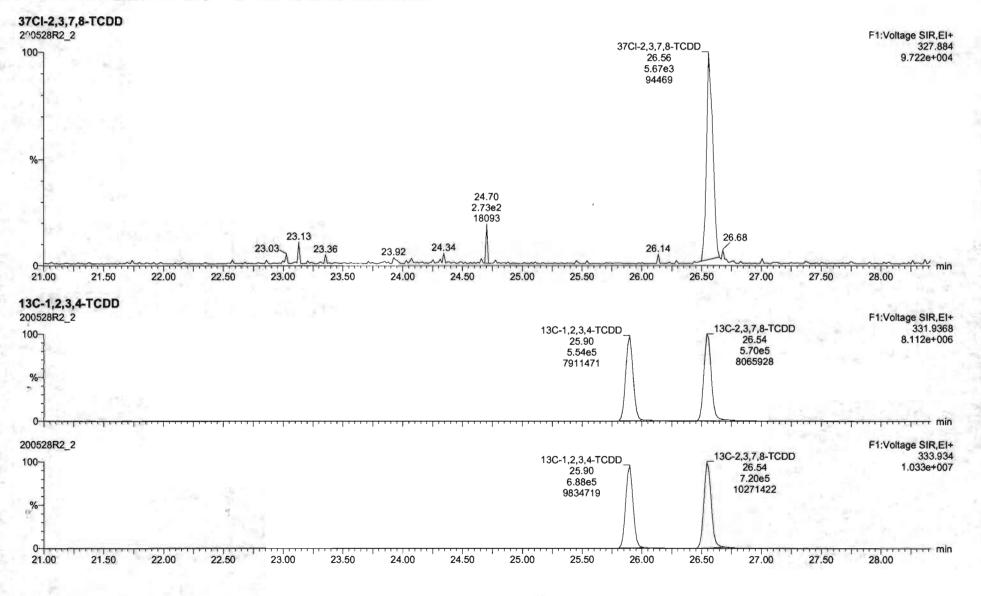
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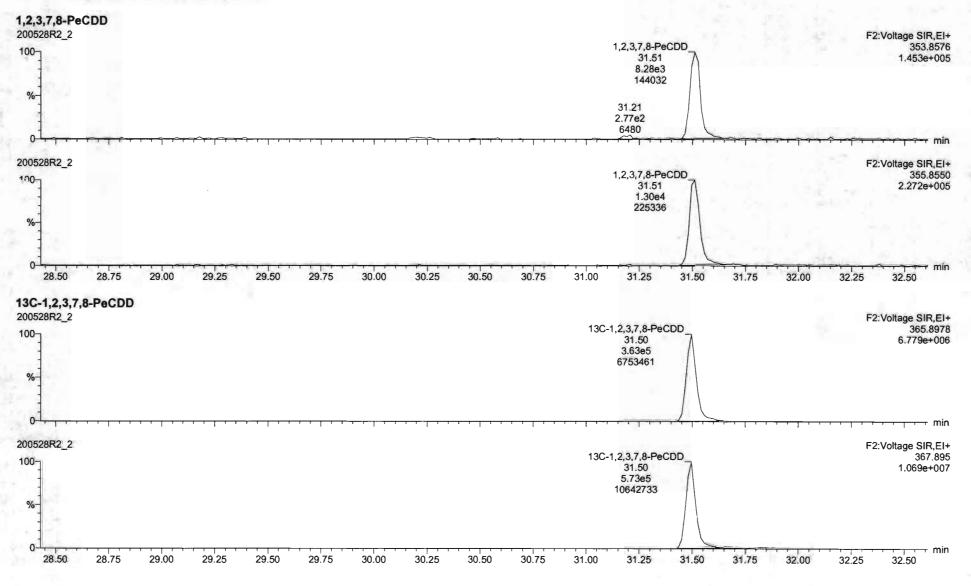


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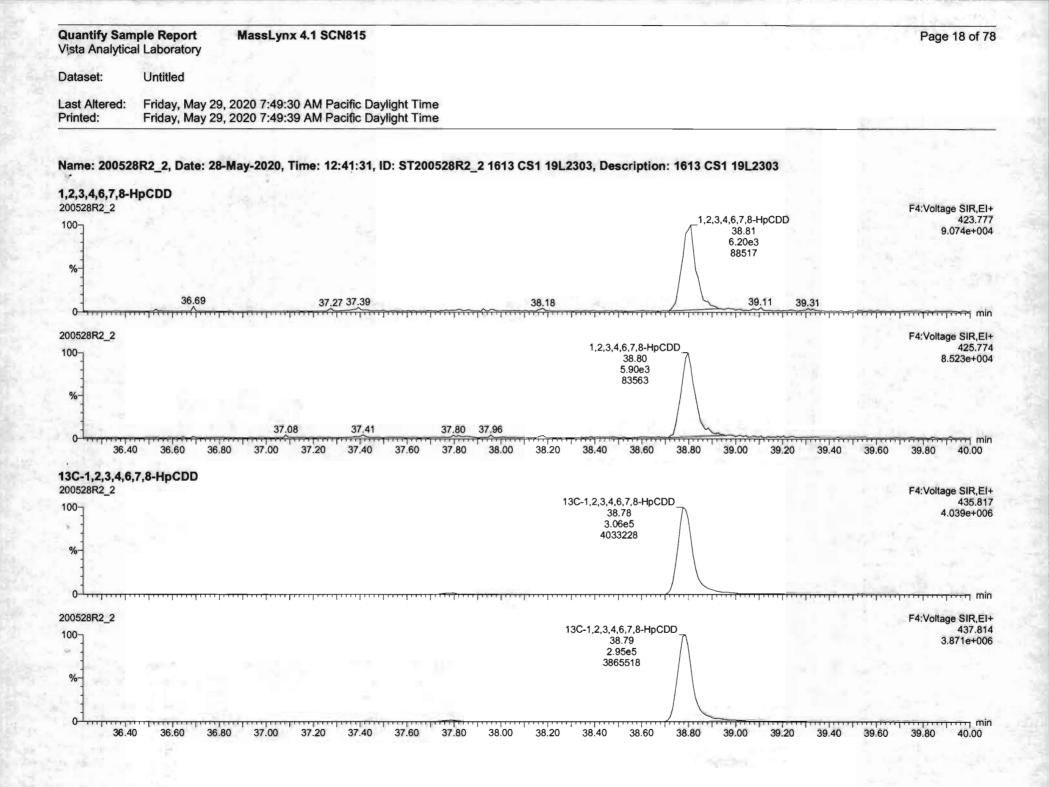


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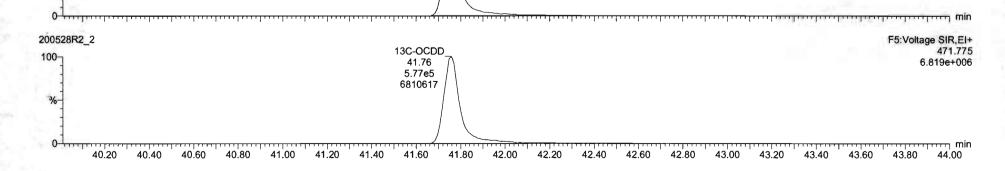
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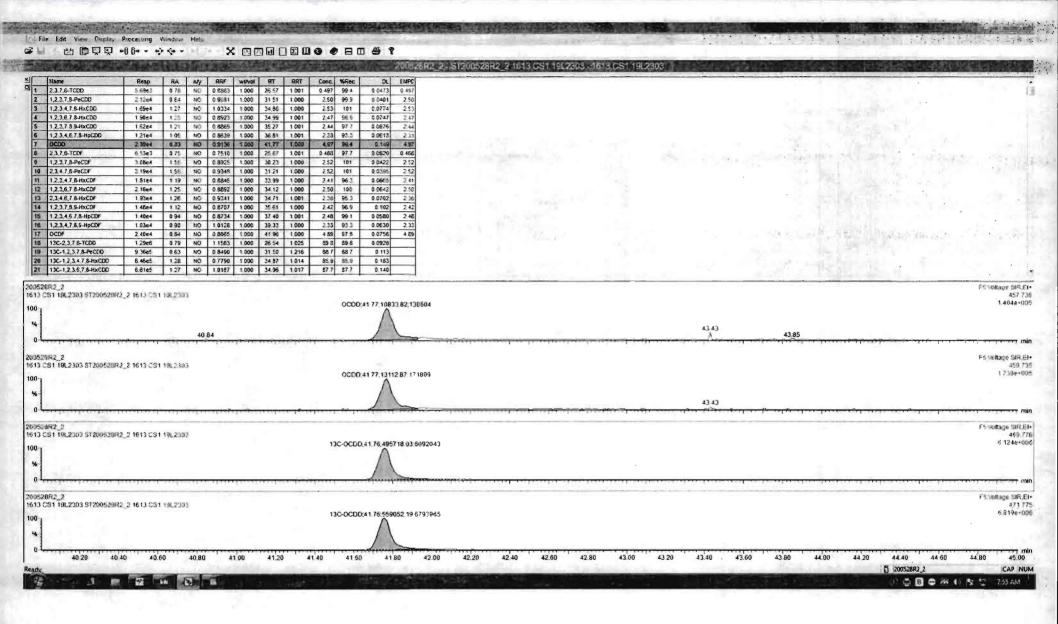
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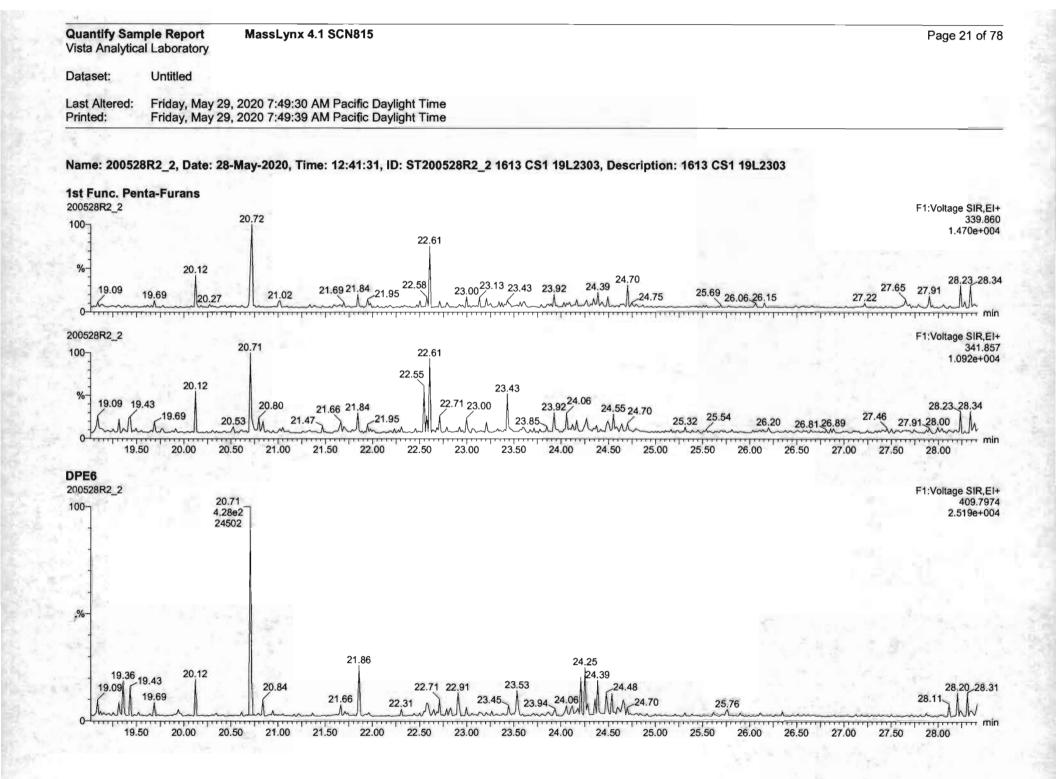


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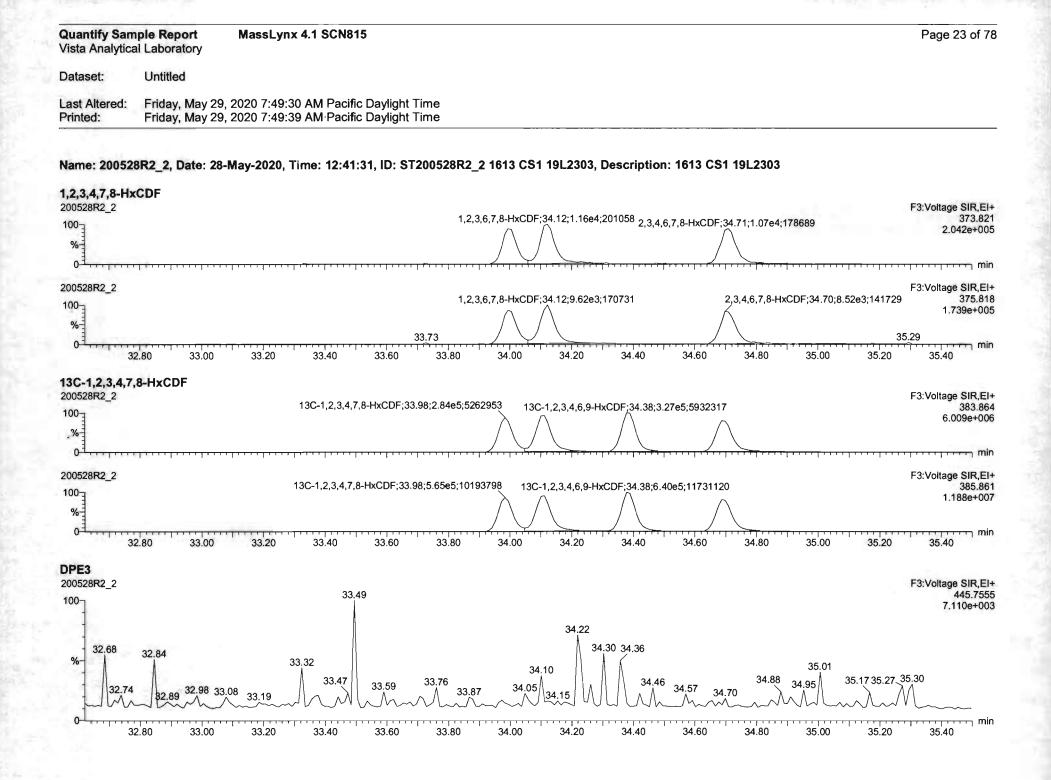
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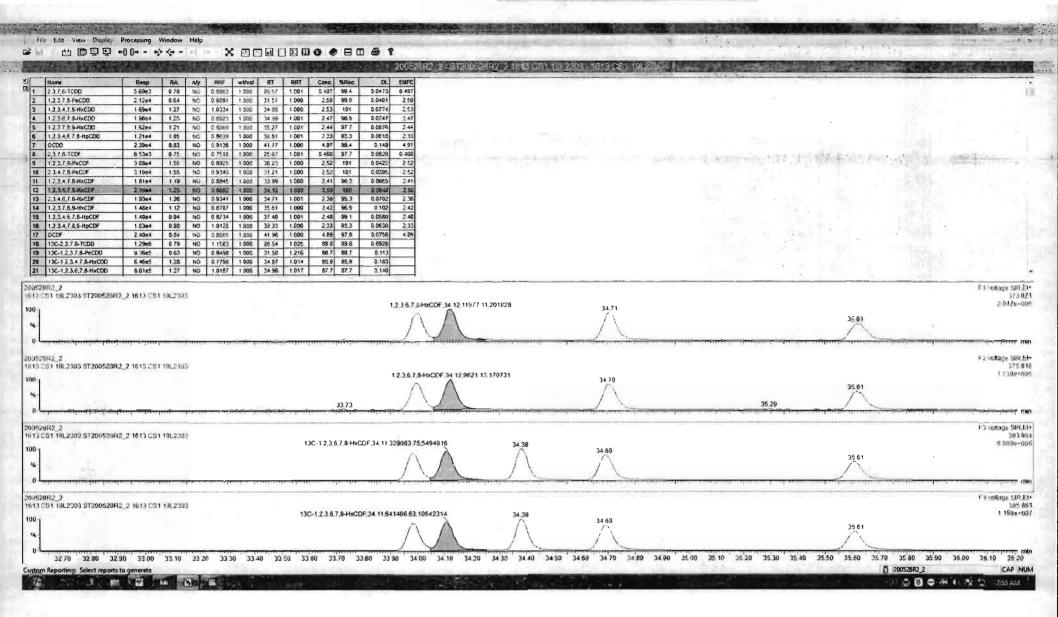
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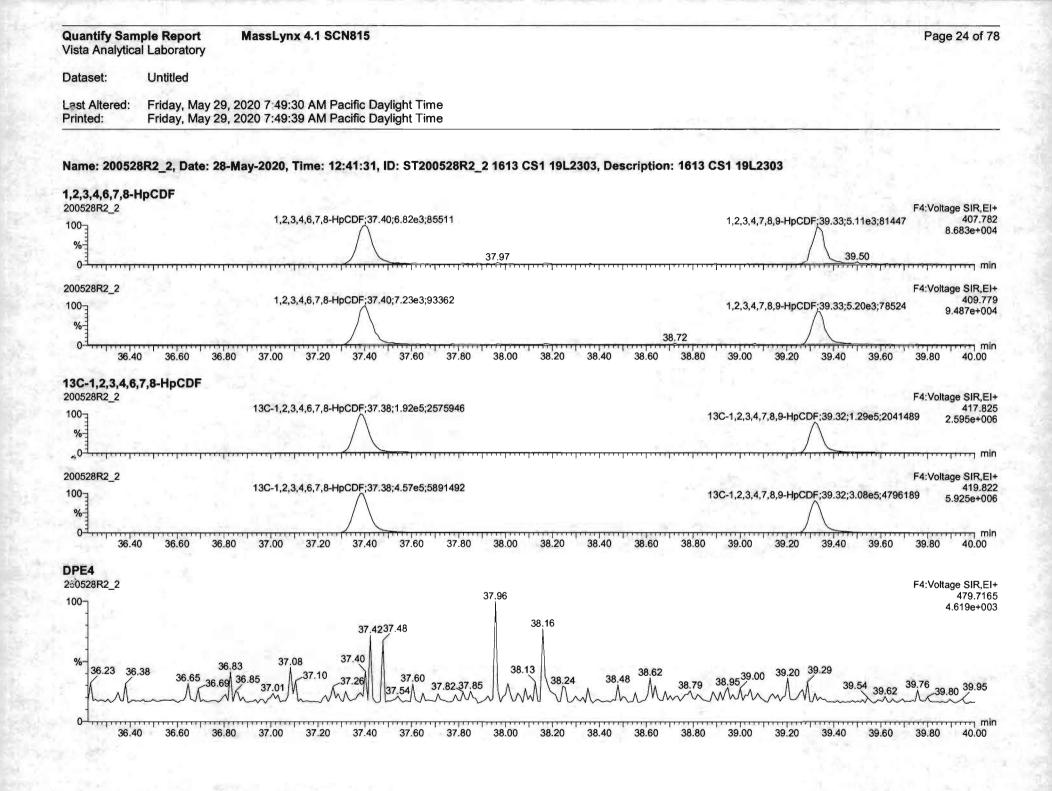
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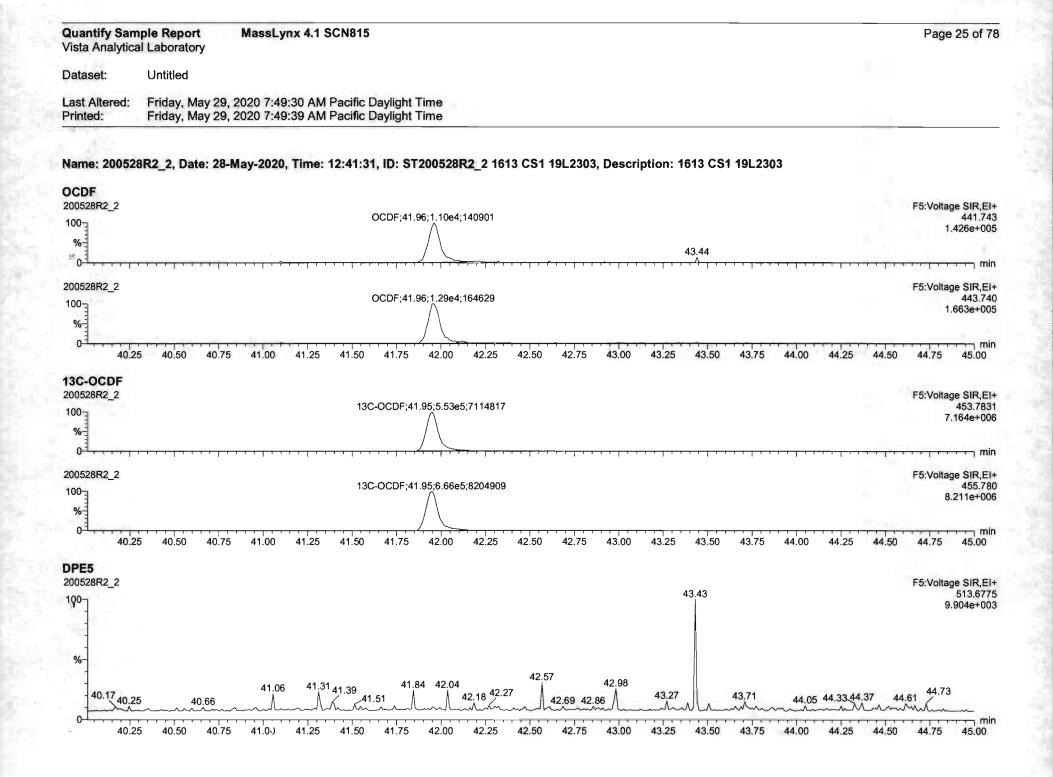
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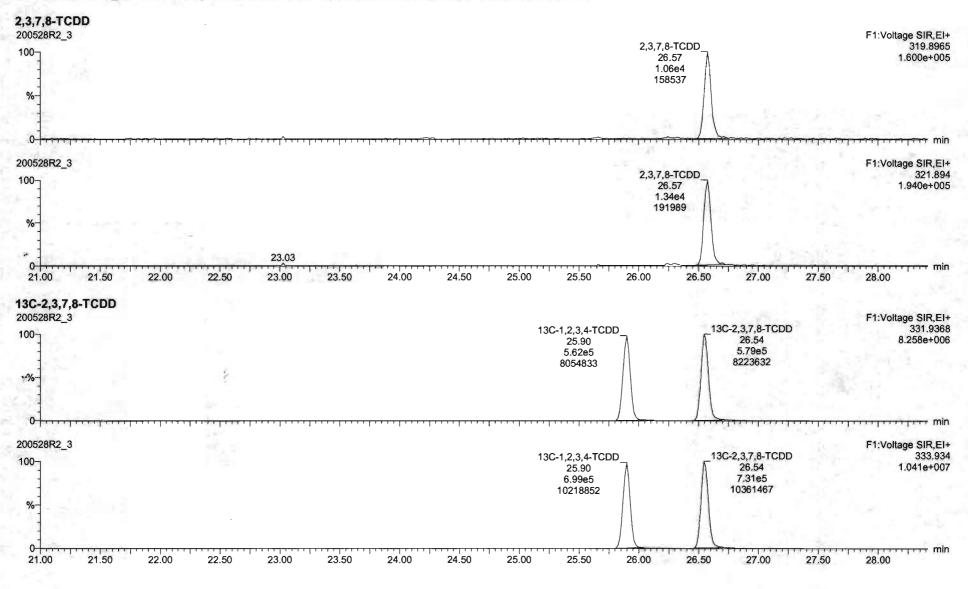


na contactant	• • • • •	A State Westernet		E Distant	200528R2	2 ST200528R2 2 16	13 CS1 19L2303- 161	3.CS1 19L2303	MALLAND STREET	프로그램에 미하는 것이라.	2400-2009-0	Contraction of the second
Name	Reap R	ny RRF	NTVOI RT RR	T Conc. %Riec	OL EMPC							
2.3.7.6-TCDD	5.69e3 0		1000 26.57 1.00		0.0423 0.497							
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							
13C-1.2,37.8-PeCDD	9 %6e5 0 8		1 000 31 50 1 21		0 113						1 - P.N.	
13C-1.2.3.4 7.8-HxCDD 13C-1.2.3.6,7.8-HxCDD	6 46e5 13		1 000 34 87 1.01 1.000 34.96 1.01		0 183							
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	12 1613 CS1 19L				OCDF, 41 95, 1095	1.58,140901			43.44	۲. ۴۰۲۳, ۴۰۰ , ۲۰۰۰	، «د کار» در از معالی در سرا	2 C.
S1 18,2303 9720052881	2 1613 CS1 190		*****	<u>∼∼?</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OCDF, 41 95, 1095	1 58(140901		******	43,44	2 	• • • • • • • • • • • • • • • •	2 C.
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\$1 T8L2303 \$720052881					OCDF 41 96, 1308				43,44 ∽,,^,	^{19.} 3.179,50,17		1 #3
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28.50	28.75 29.00	29.25	29.50 29.75				.00 31.25	31.50	31.75	32.00		32.50
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28.50 K3		29.25	29.50 29.75 33.58 ^{33.63}		5 30.50 3	30.75 31	12659	31.50 7;5.76e4;11014				32.50 F3:Voltage SIR
28.50 K3 528R2_2 32.64 32.64	81 32.96 33.1	1 33.24	33.58	30.00 30.2 34.1	5 30.50 3 10 34.36	30.75 31 4.79;4.91e4;84	43658 35.0	7;5.76e4;11014	61 35.333	5.42 35.56	6 35.68 3	32.50 F3:Voltage SIR 95.79 380.9 9:504e+
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<pre>28.50 (3 528R2_2 32.64 32.64 32.64 32.8 (4 528R2_2 36.49;9.3 36.33 36.40 (5 528R2_2 </pre>	81 32.96 33.1 33.00 33.00 33.00 00e5;3526245 36.60 36.	1 33.24 33.20 33.40 36.87 ^{36.99} 80 37.00	33.58 ^{33.63} 33.60 33 37.29 37.34 37.50 37.20 37.40	30.00 30.2 34.1 3.80 34.00 30 37.63 37.81 37.60 37.80	5 30.50 3 10 34.36 34.20 34.40 37.95 34 38.00 38.20	30.75 31 4.79;4.91e4;84 34.60 8.3038.40	43658 35.0 34.80 38.60 38.67 38.60 38.8	7;5.76e4;11014 35.00 35.2 .84 3 .0 39.00	61 35.3334 20 35. 99.16 39.20	5.42 35.56 40 35 39.42 39.40	6 35.68 3 .60 : .9.60 :	32.50 F3:Voltage SIR 5.79 380.9 9:504e+ 35.80 36.0 F4:Voltage SIR 430.9 39.827.813e+ 39.80 40.0 F5:Voltage SIR
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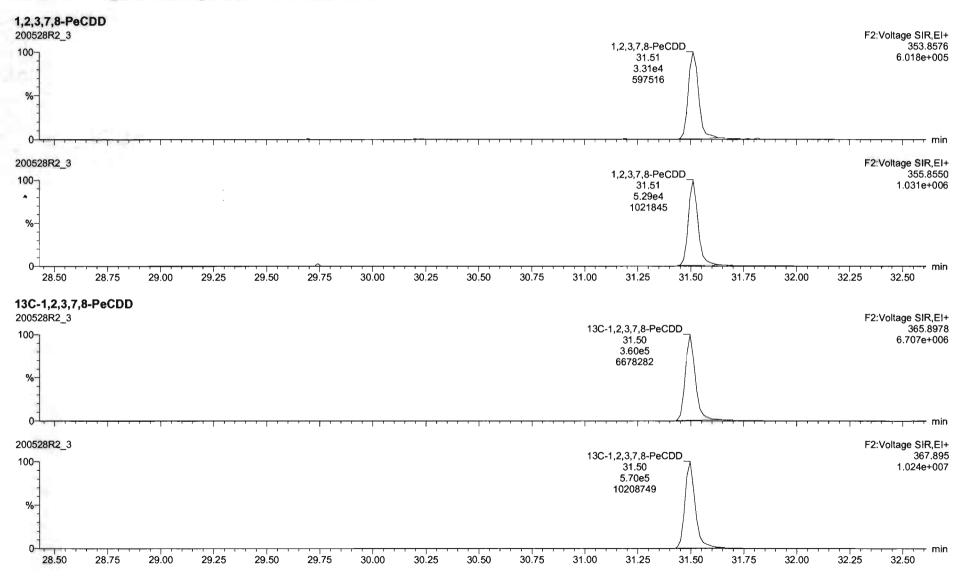
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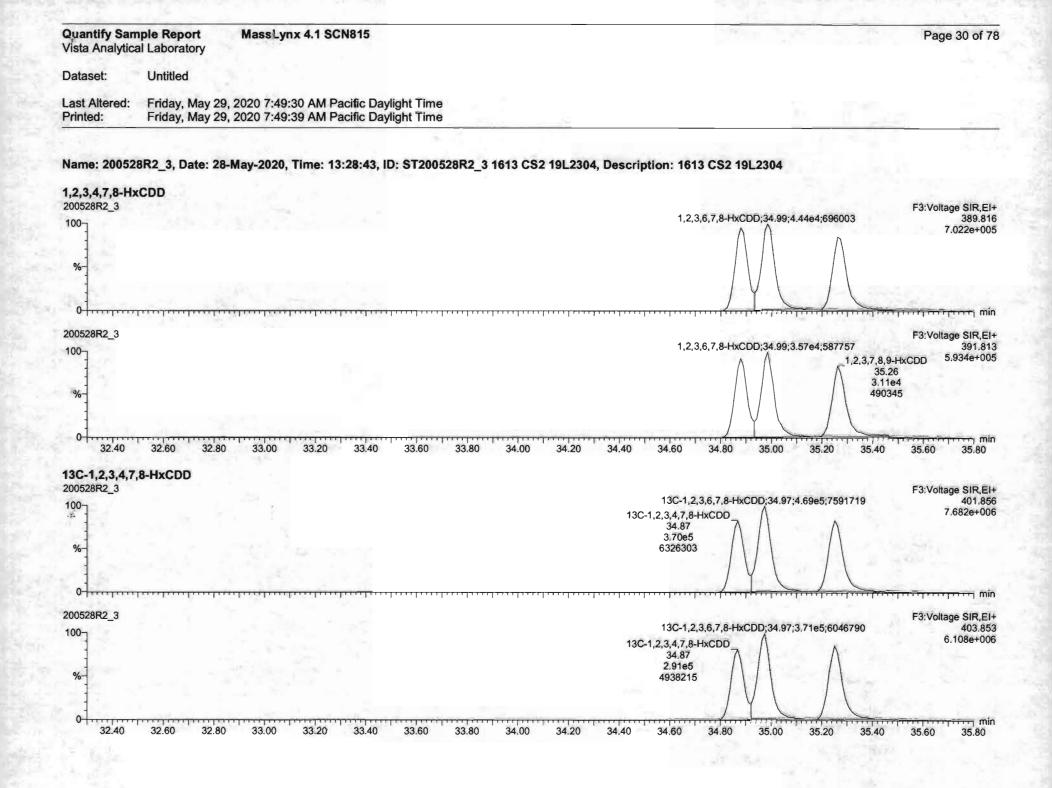
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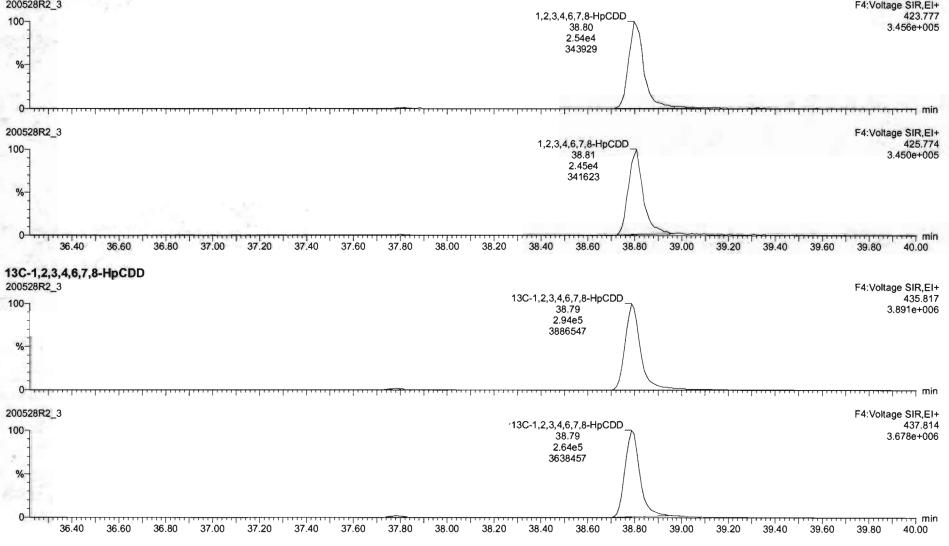
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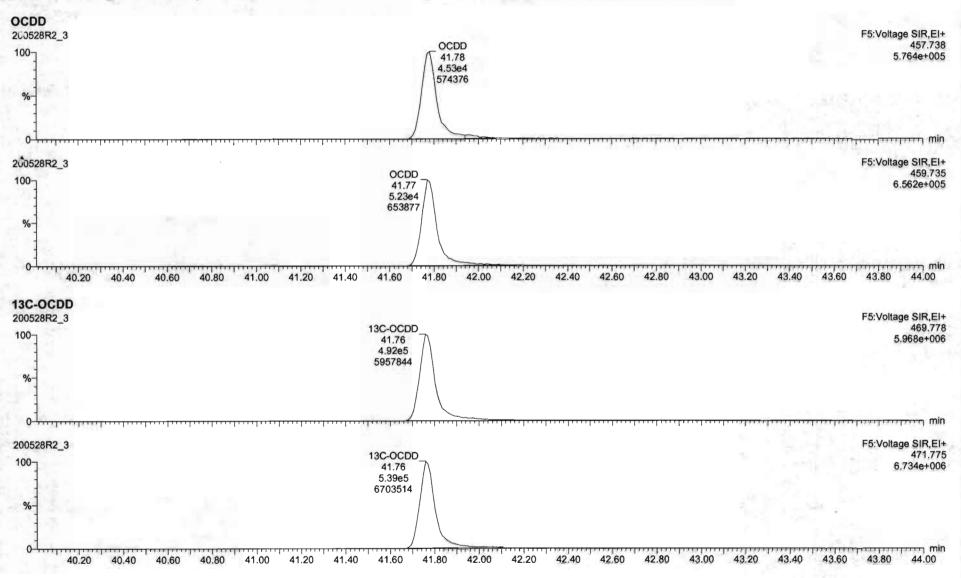


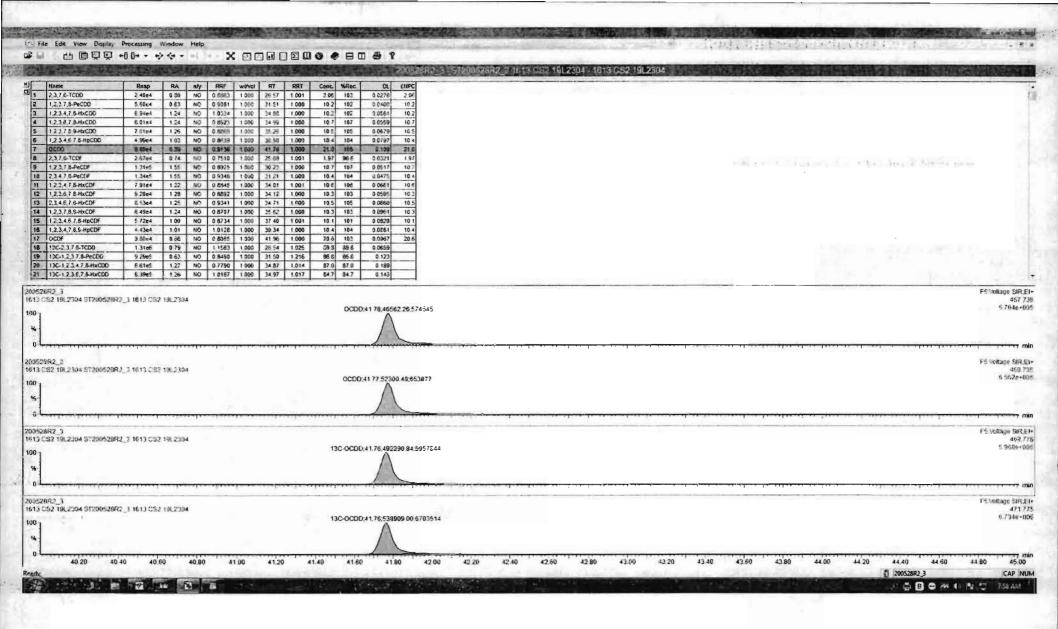
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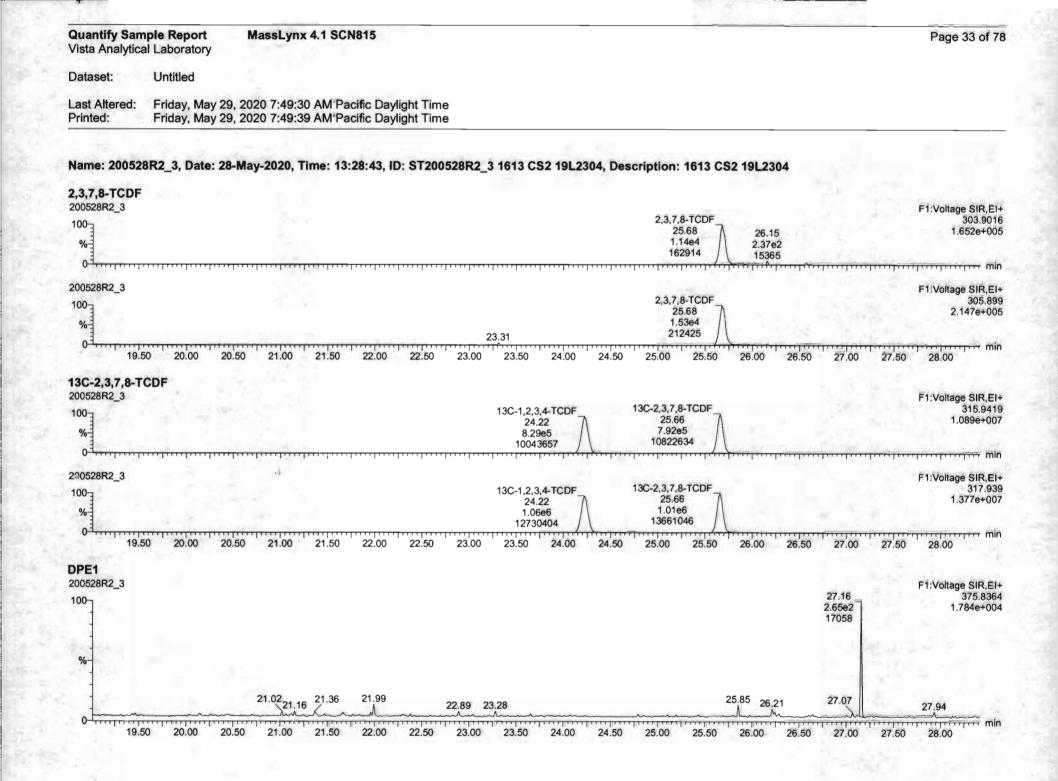


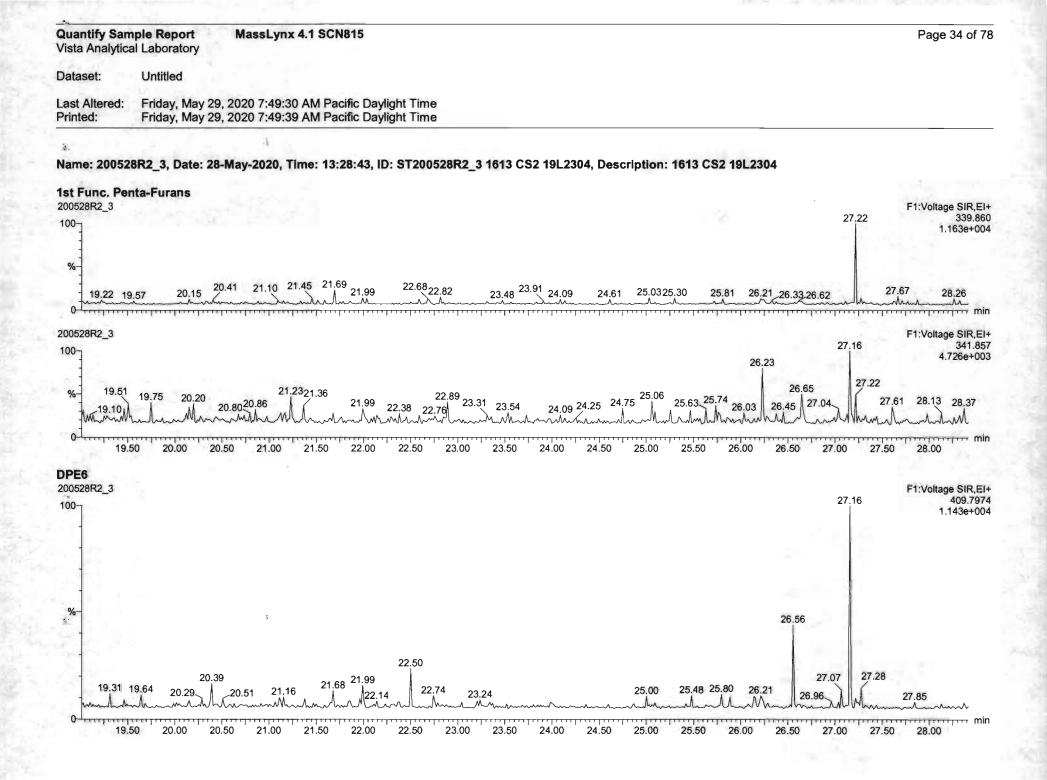
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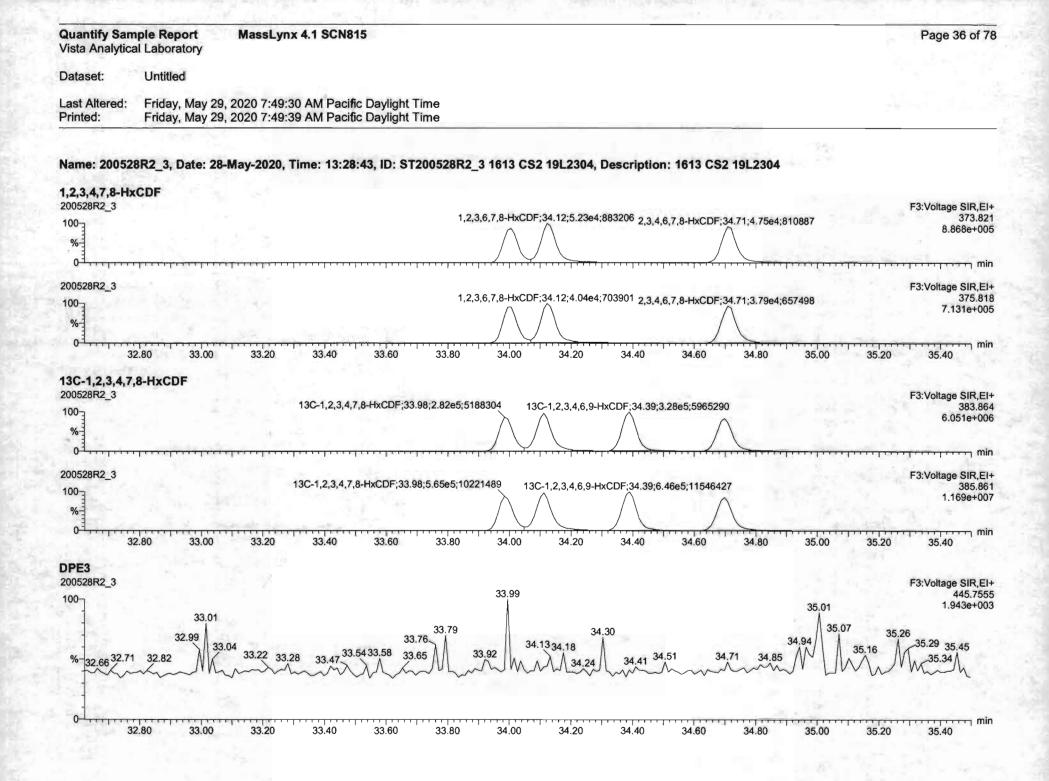






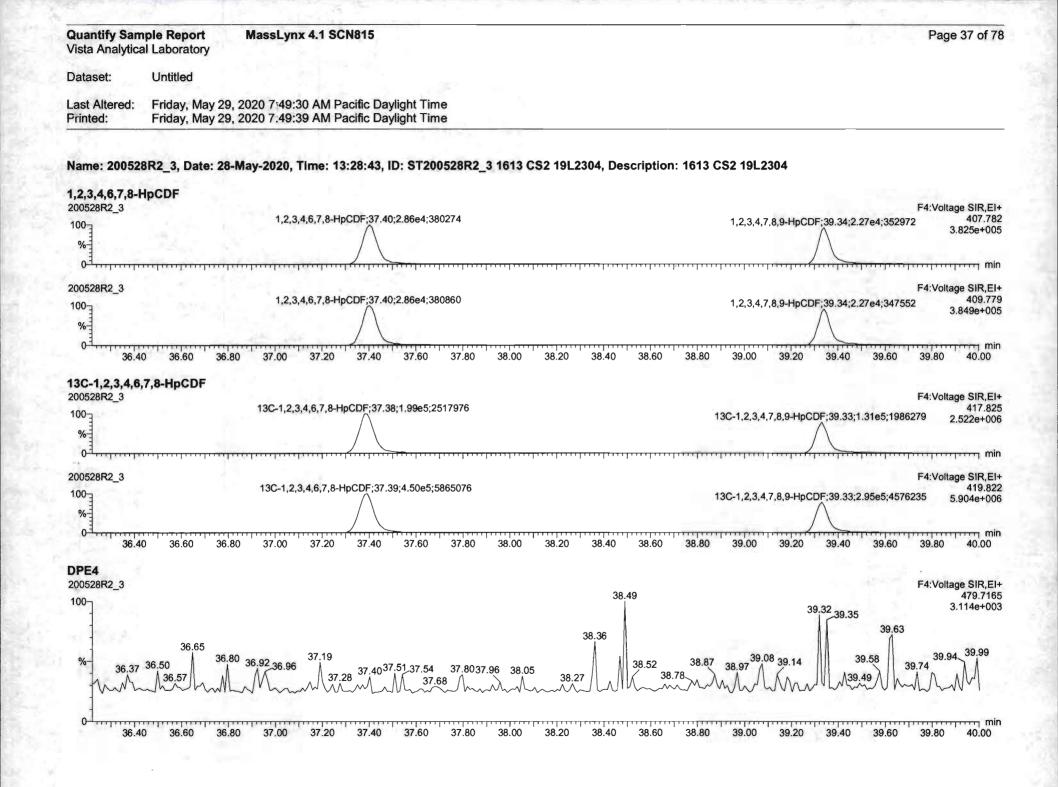


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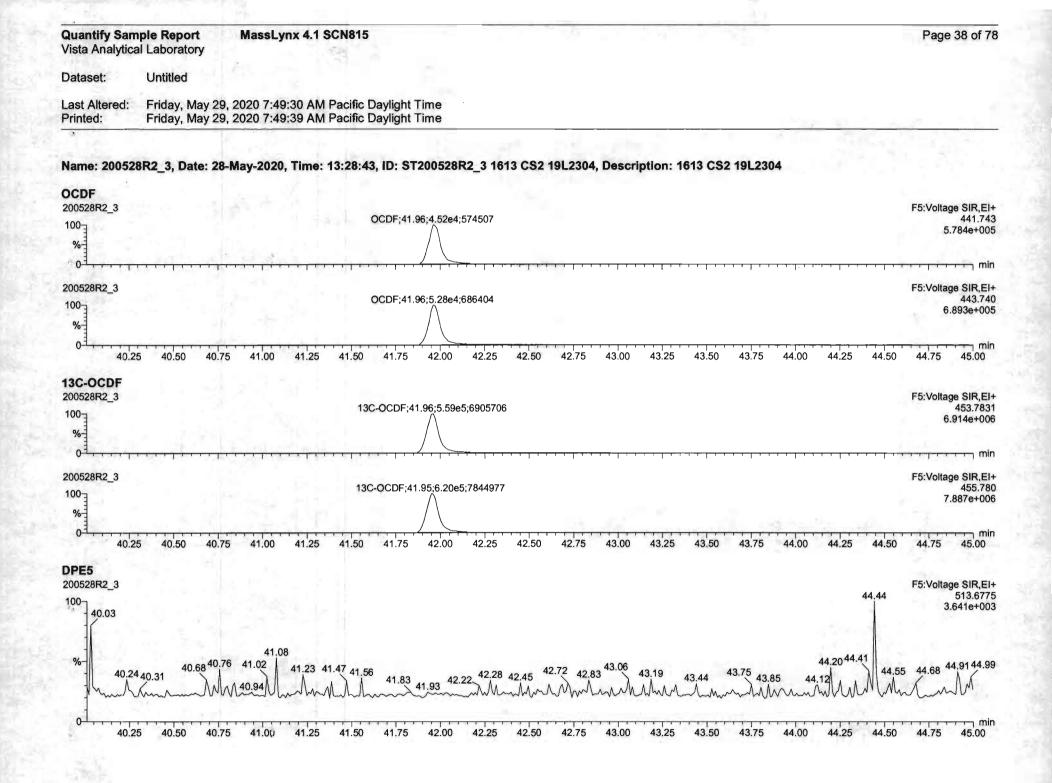
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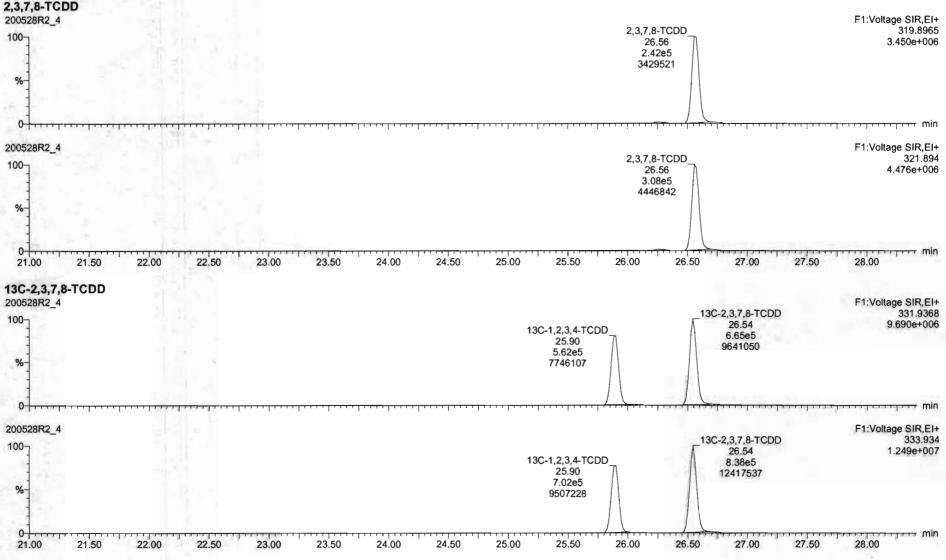


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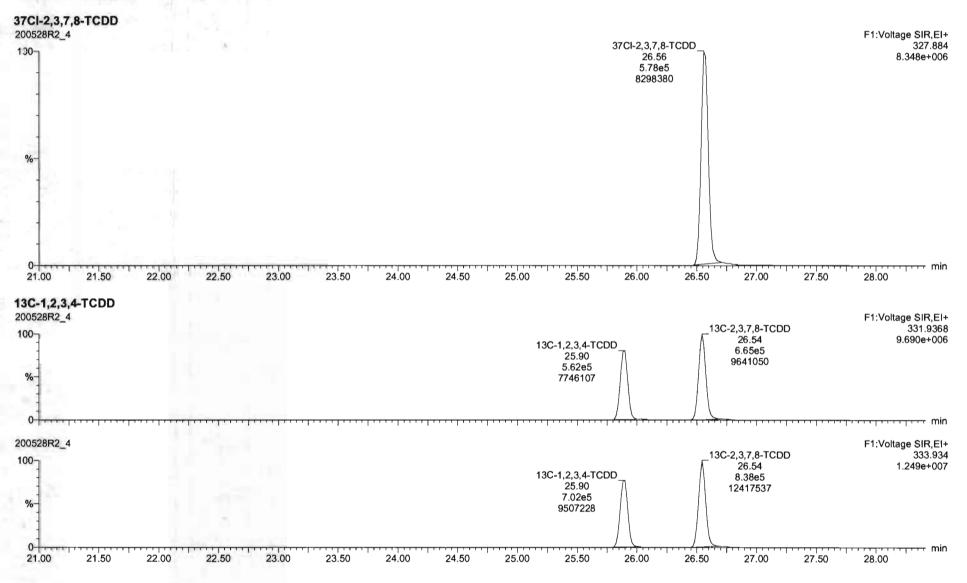


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$ \begin{array}{c} 1950 & 20.00 & 2050 & 21.00 & 21.50 & 22.00 & 22.50 & 23.00 & 23.50 & 24.00 & 24.50 & 25.00 & 26.50 & 26.00 & 26.50 & 27.00 & 27.50 & 28.00 \\ \hline FK2 \\ 000528R2_3 & F2.Voltage SIR, \\ 28.55 & 28.64; 156e5; 564561 & 20.16 & 29.30 & 29.57 & 29.68 & 27.4 & 30.02 & 30.11 & 30.46, 30.50 & 30.66 & 30.79 & 31.05 & 31.30 & 31.42 & 31.65 & 31.71 & 32.12; 2564 & 280921 & 1.695484 \\ \hline 28.50 & 28.75 & 28.00 & 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 \\ \hline 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 \\ \hline 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 \\ \hline 78.73 & 33.56 & 1.34e5 & 33.92 & 34.61; 4.88e5; 2647699 & 35.07; 1.92e5; 1568565 & 35.68 & 57.4 & 305.99 \\ \hline 79.74 & 33.60 & 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 \\ \hline 79.74 & 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 \\ \hline 79.74 & 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 \\ \hline 79.74 & 36.97; 32.80; 3198019 & 36.91 & 37.16 & 37.43 & 37.68 & 38.10 & 38.20 & 38.40 & 38.80 & 39.00 & 39.20 & 39.40 & 39.60 & 39.80 & 40.0 \\ \hline 79.74 & 36.47; 32.80; 3198019 & 36.91 & 37.16 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 & 38.40 & 39.00 & 39.20 & 39.40 & 39.60 & 39.80 & 40.0 \\ \hline 79.74 & 36.91 & 37.20 & 37.40 & 37.60 & 37.80 & 38.00 & 38.20 & 38.40 & 39.60 & 39.20 & 39.40 & 39.60 & 39.80 & 40.0 \\ \hline 79.74 & 32.292; 1401156 & 41.07 & 32.2169 & 41.41 & 41.67 & 41.82 & 42.25 & 42.41 & 43.04, 47.385; 1401475 & 43.5143.85; 56.74,551161 & 44.17; 3.33e4; 339264 & 4.109e44 & 41.09e44 & $	%	
FK2 00528F2_3 28.84;1.56e5;554561 29.16 29.30 29.57 29.68 29.74 30.02 30.11 $30.46_{-30.50}$ 30.66 30.79 31.05 31,30 31,42 31,65 31,71 32.12.26e4;280821 3657e4 $30.46_{-30.50}$ 30.66 30.79 31.05 31,30 31,42 31,65 31,71 32.12.26e4;280821 3657e4 $30.46_{-30.50}$ 30.66 30.79 31.05 31,30 31,42 31,65 31,71 32.12.26e4;280821 3657e4 $30.46_{-30.50}$ 30.66 30.79 31.05 31,30 31,42 31,65 31,71 32.12.26e4;280821 3657e4 31.465 31.50 31.75 32.00 32.25 32.50 30.75 31.00 31.25 31.50 31.75 32.00 32.25 32.50 32.55 32.50 30.55 30.50 30.75 31.00 31.25 31.50 31.75 32.00 32.25 32.50 32.55 32.50 32.55 32.50 32.55 32.50 32.55 32.50 32.55 32.50 32.55 32.50 32.55 32.50 32.55 32.55 32.50 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 32.55 3	$= 0^{-1}$	
$ \begin{array}{c} \begin{array}{c} F2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	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
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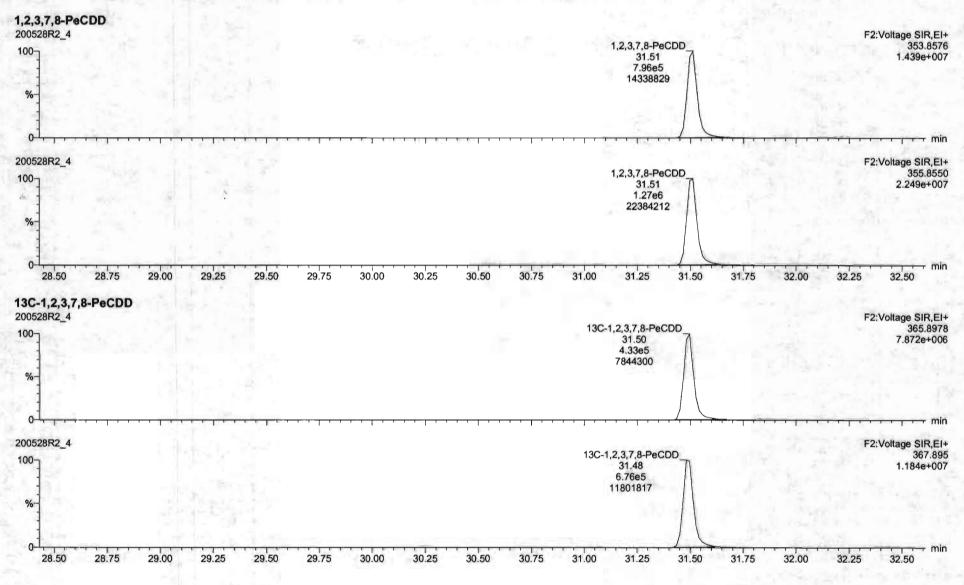
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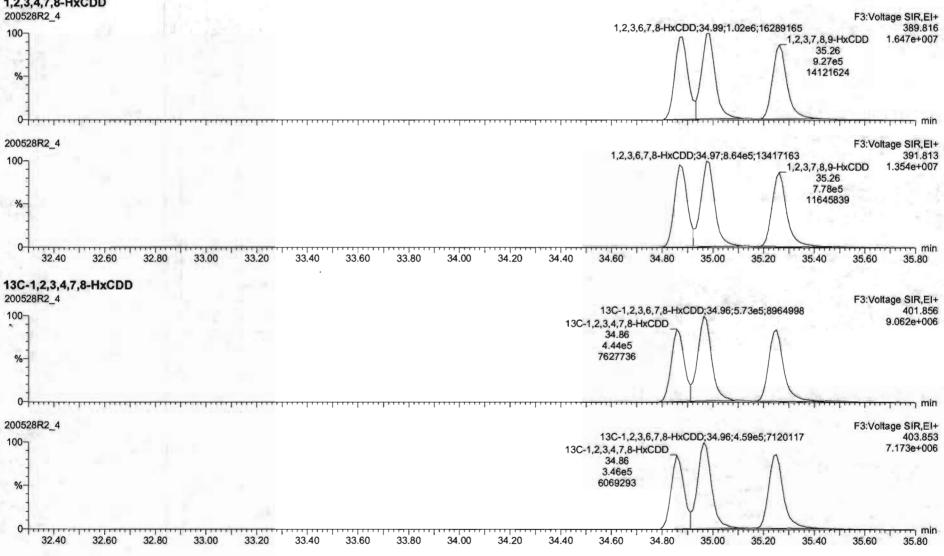


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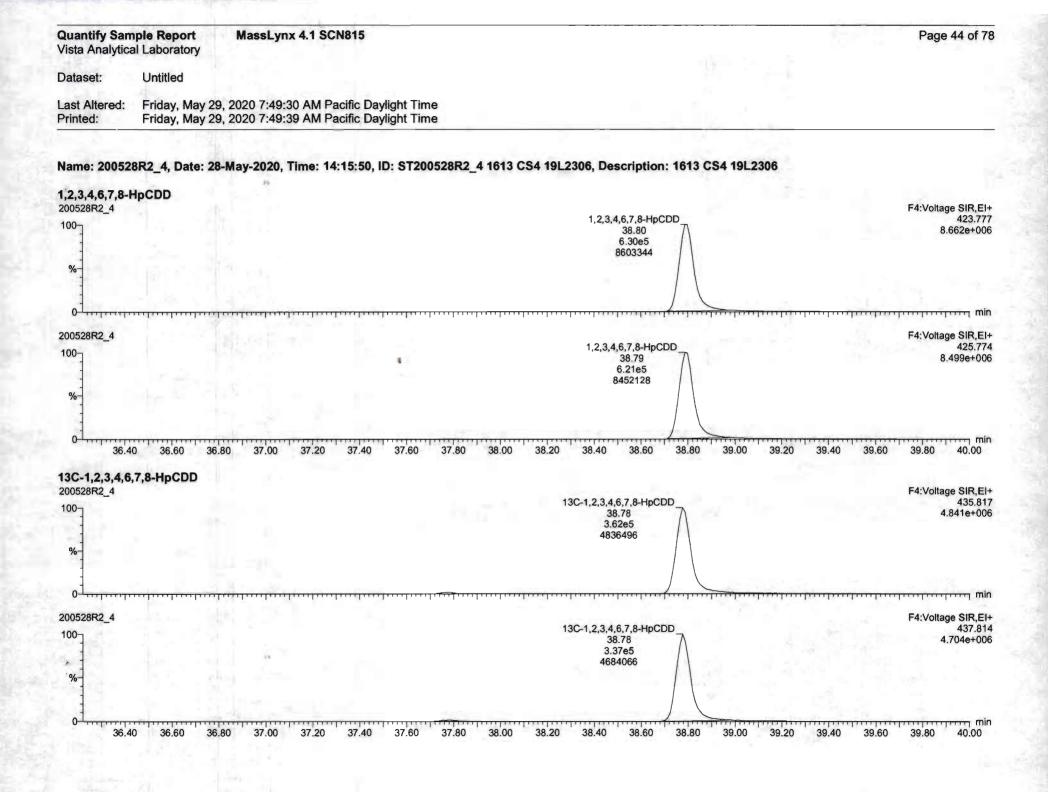


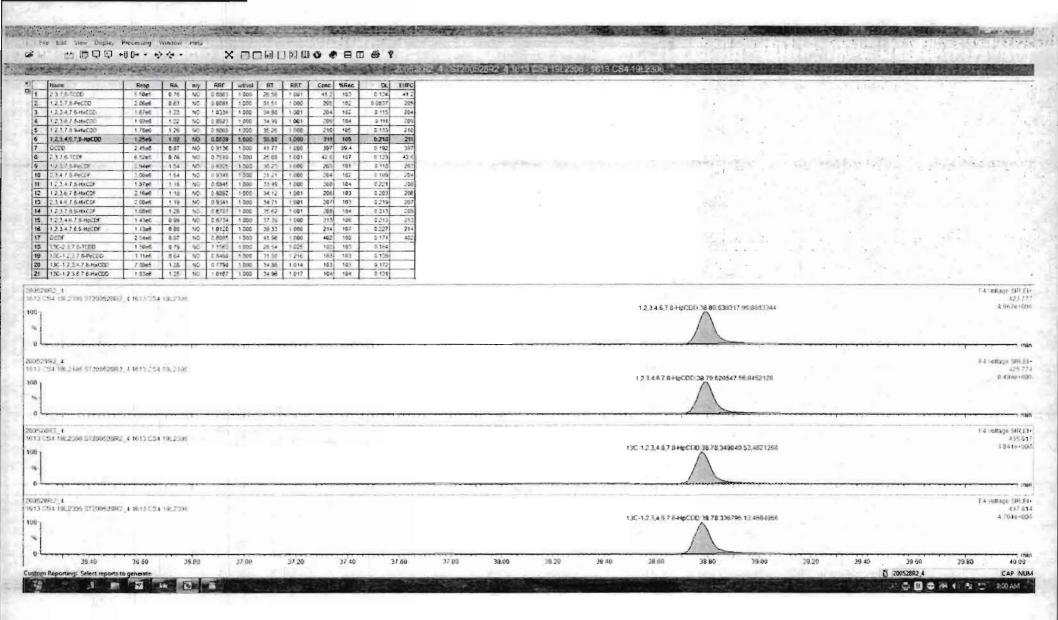
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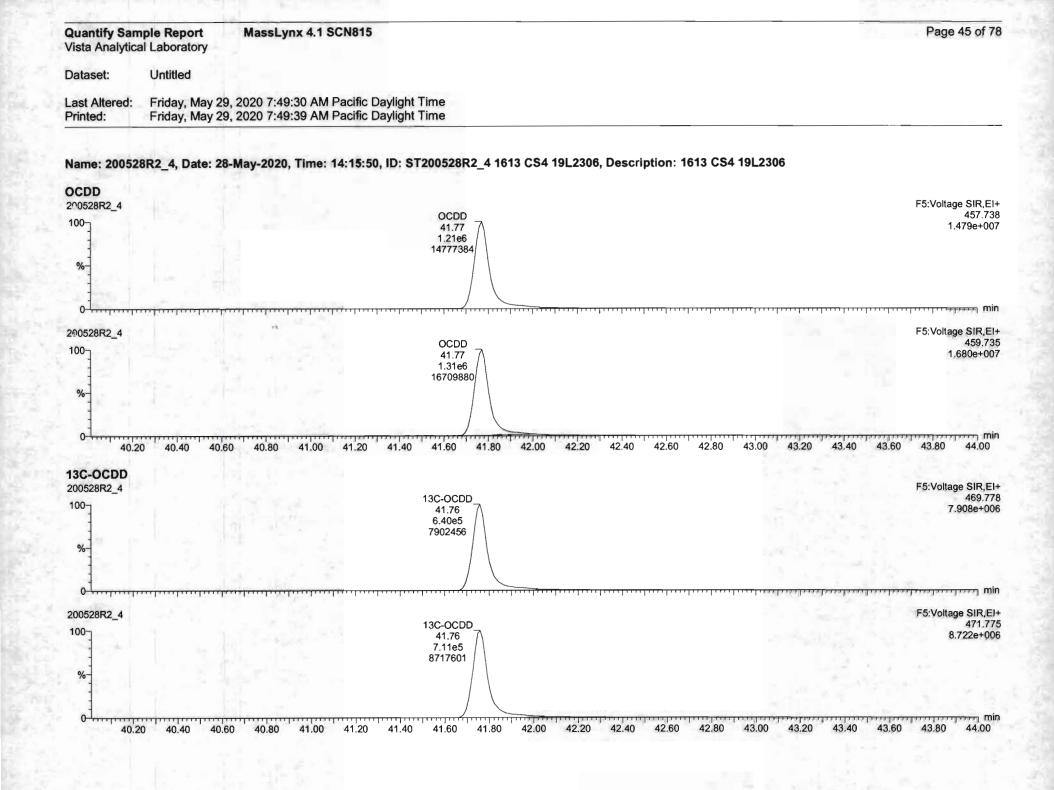
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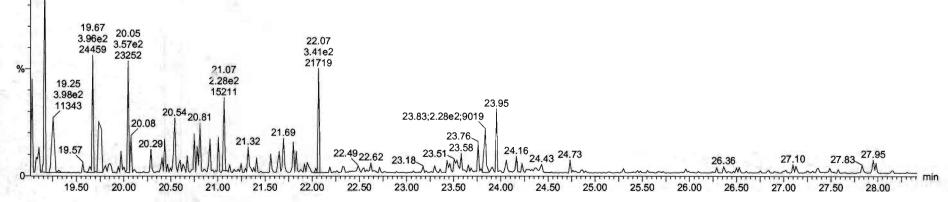




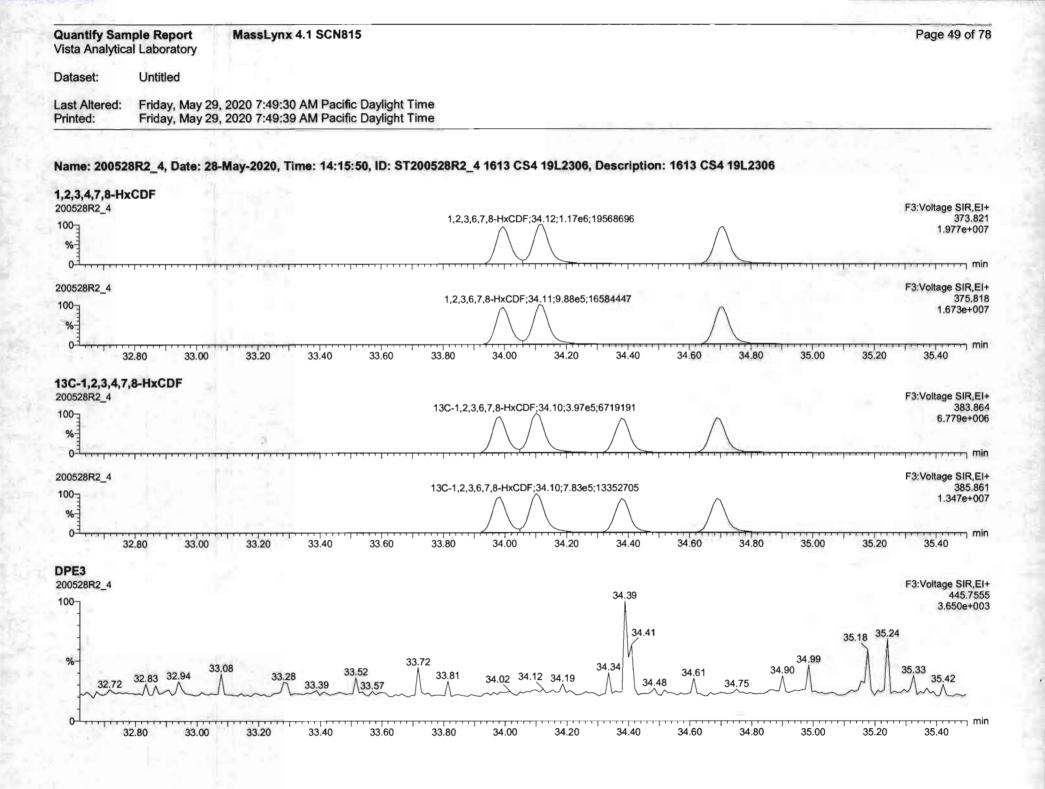
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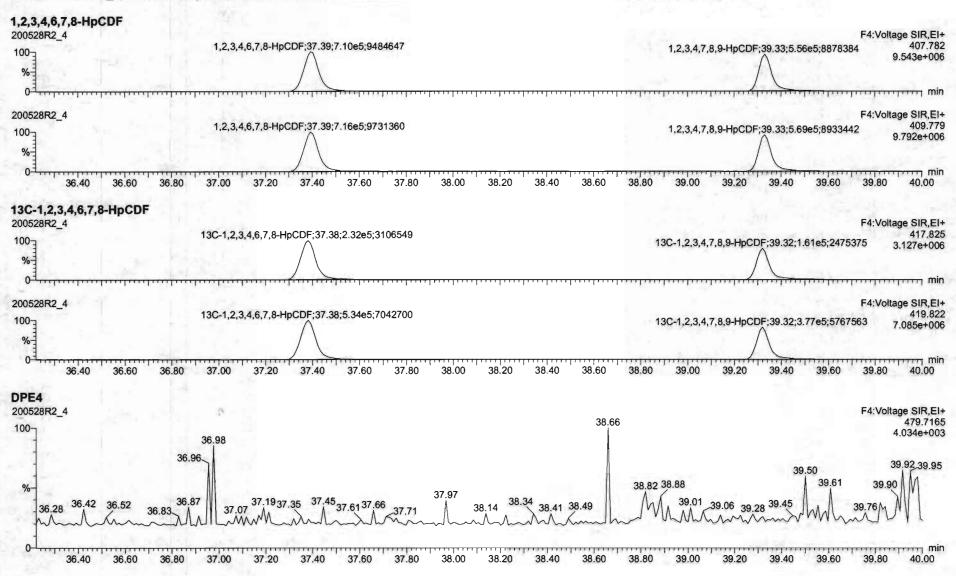
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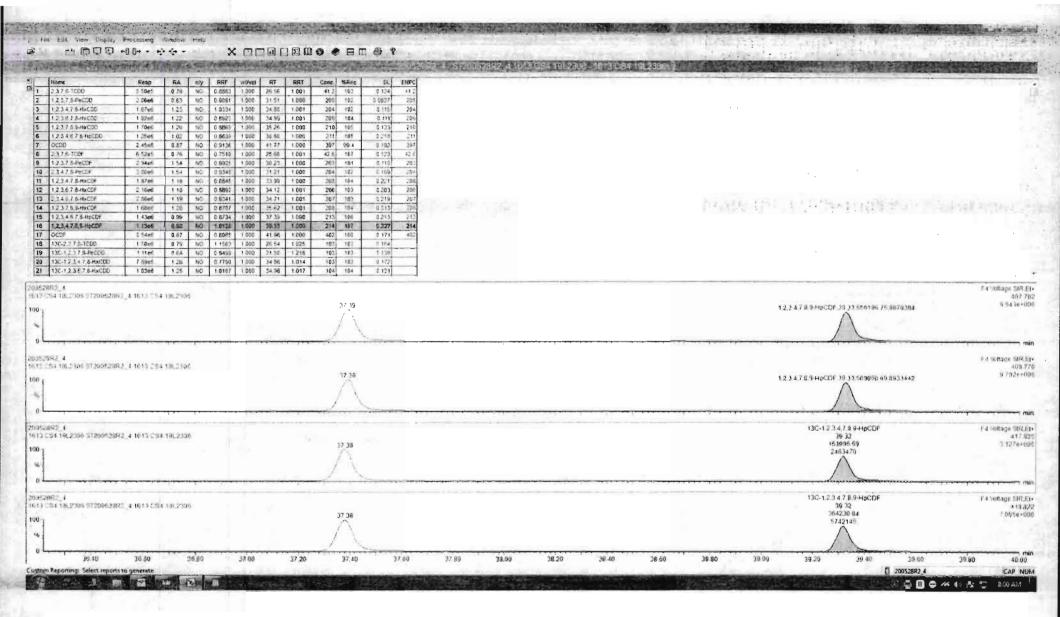


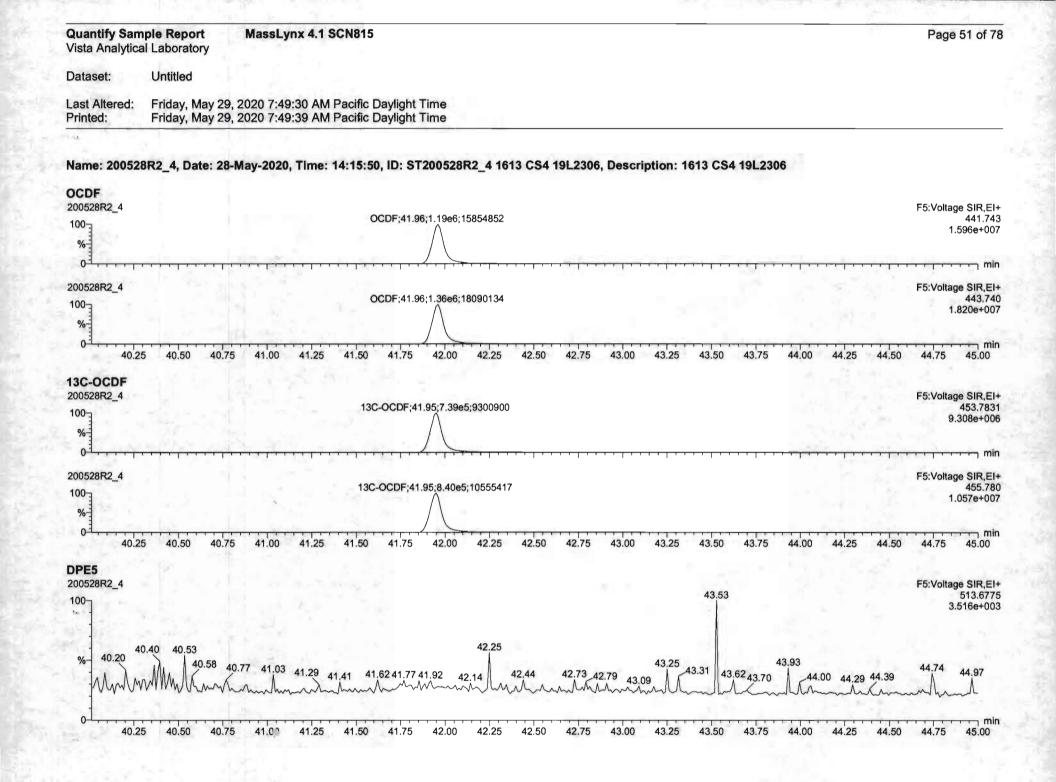
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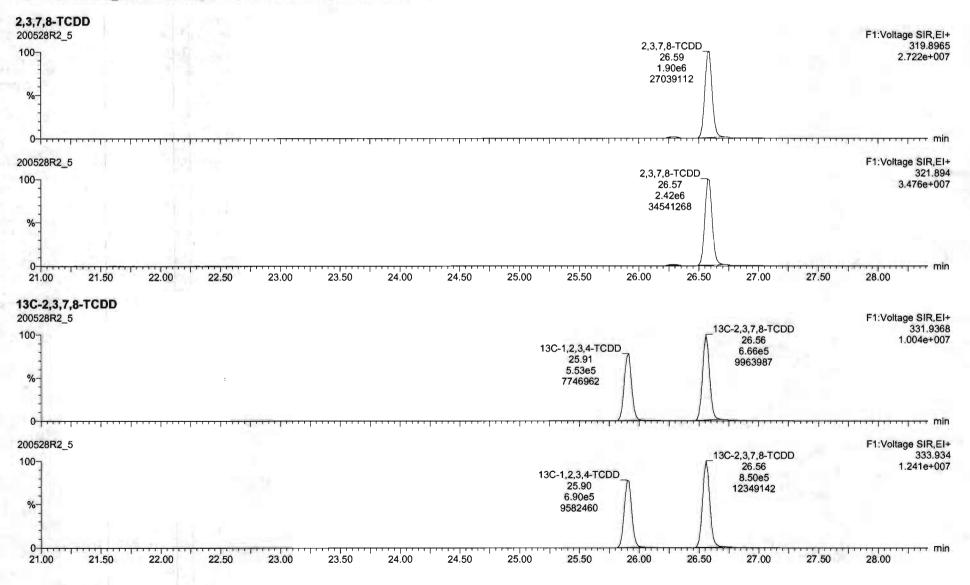


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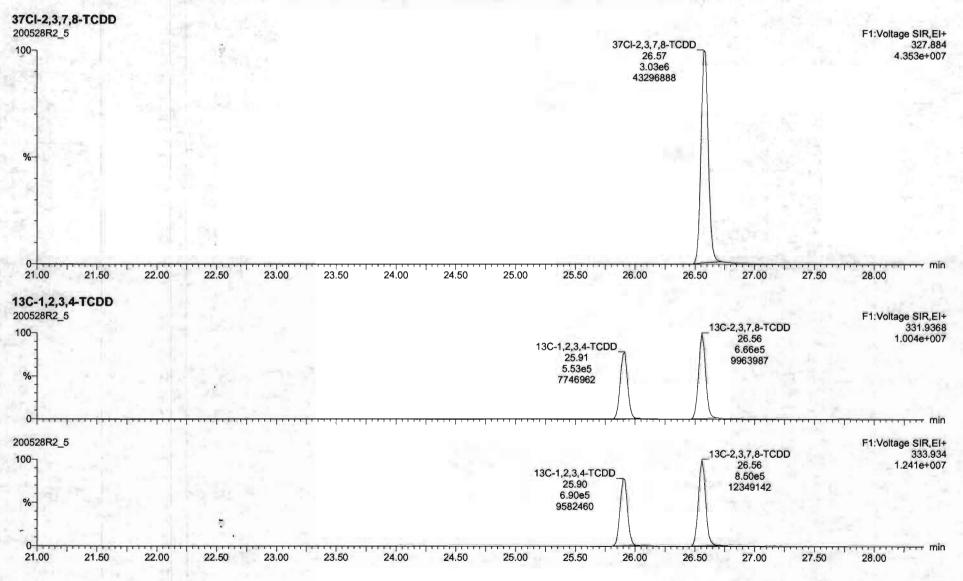
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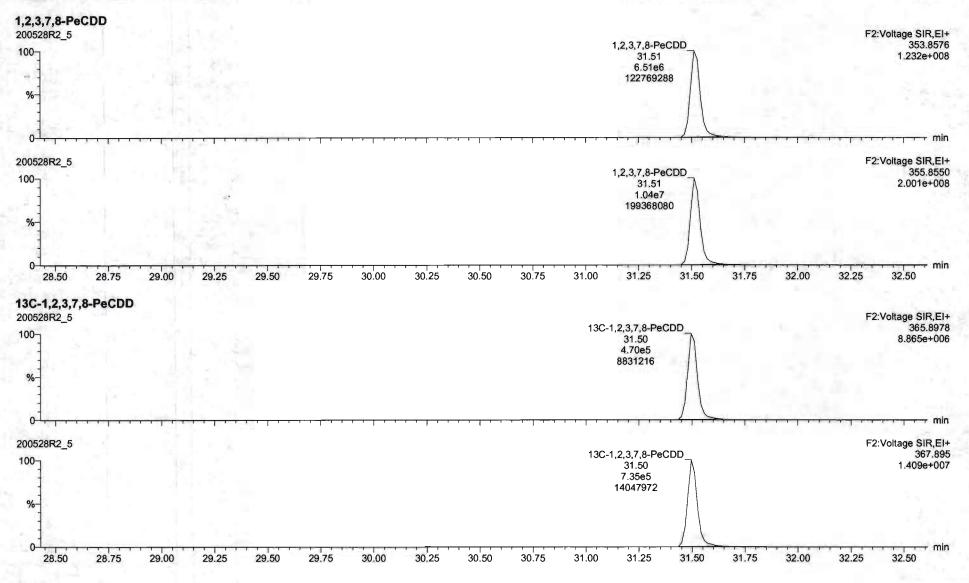


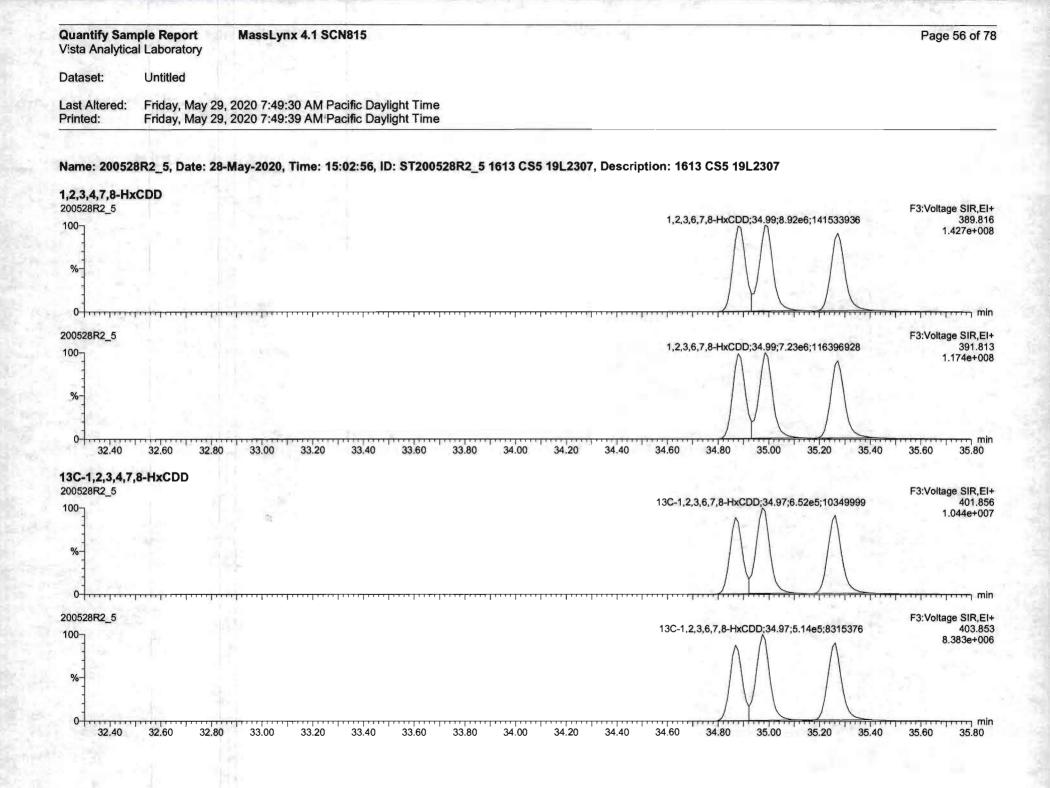
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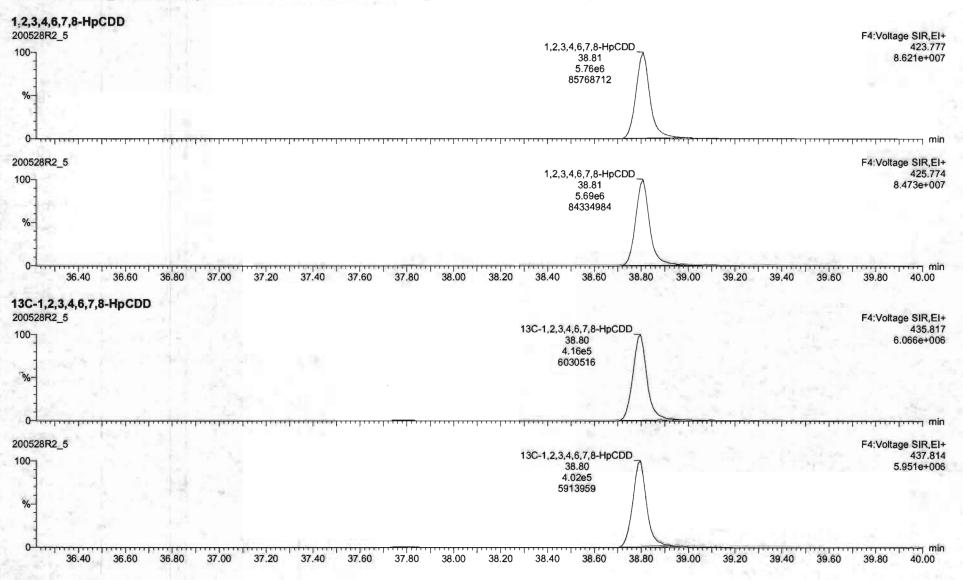


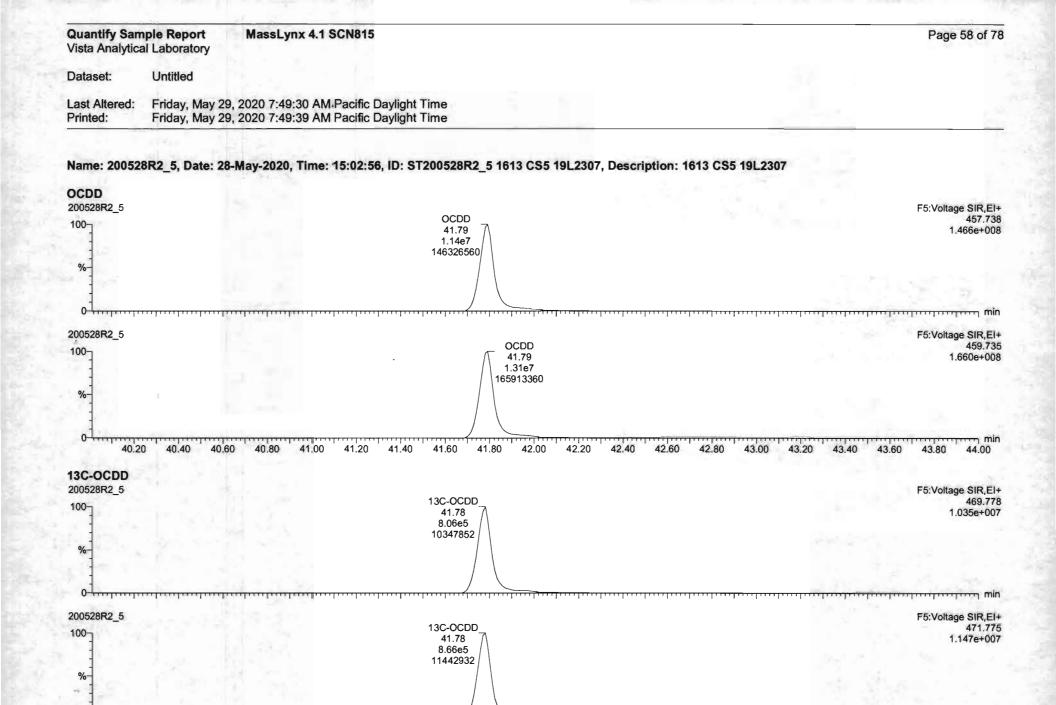


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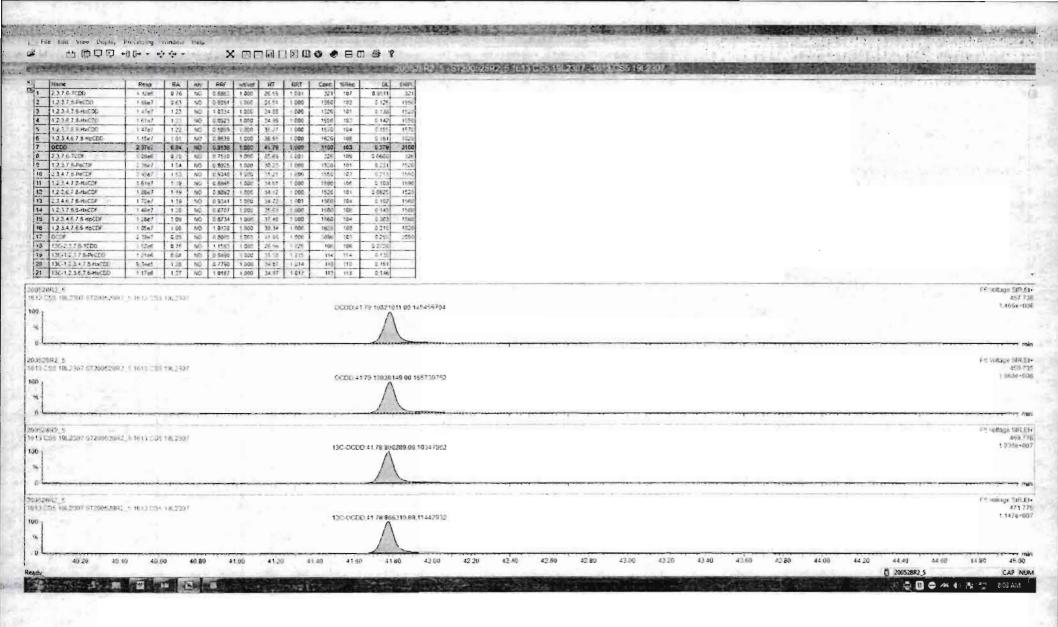
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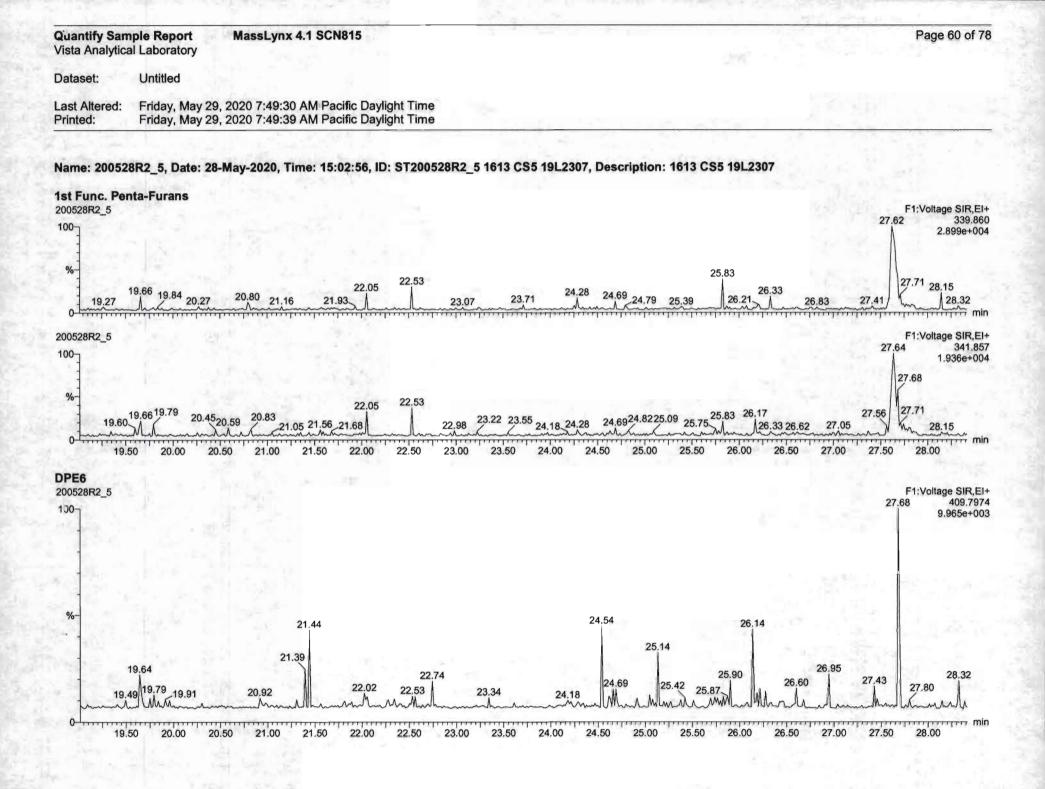
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04				1		1		++++++				•••••	<u>ل</u>			<del></del>	ע <del>ייודיייניייני</del> מ
00528R2_5											25 2.8	-TCDF					F1:Voltage SIR,I 305.8 3.991e+0
0-1	50 20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	
C-2,3,7,8-T		20100	21100	2			20.00	_0.00			20.00	20.00		-0100		2.100	10100
0528R2_5	GDF					120 1 2 2		4.24;8.17e	5-0720106		13C-2,3,7,8	-TCDE					F1:Voltage SIR,I 315.94
00 %						100-1,2,0	,,,,,,,,,,,	.4.24,0.176	),9720100	L	25.68 8.92e 121054	5					1.222e+(
0 <del>-1,,</del> 0528R2_5							<u>, , , , , , , , , , , , , , , , , , , </u>	]						[			F1:Voltage SIR,I
						13C-1,2,3,4	4-TCDF;24	.24;1.03e6;	12371959	\	13C-2,3,7,8 25.66 1.15 <del>e(</del> 153988	s /					317.9 1.551e+0
0 ⁻¹	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
													26.14	1		27.68 _	F1:Voltage SIR, 375.83
0528R2_5										24.54						2.02e2 7989	8.924e+(
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00528R2_5	0.64															-	
<b>PE1</b> 00528R2_5 00 1 1 19.13	19.64 20.09			21.44		00 E9										-	
00528R2_5	19.79	0.30 20.59	21 20,92	21.44 .39 21.60	22.05	22.53 2.49	2.59		23.94 24	24.6 25	⁶⁹ 25.1425	27 ^{25.69 2}	25.85	6.18 26.47	26.83	27.43	28.15 28.3



luantify Sam		MassLy	nx 4.1 SC	N815							Page 61 of 7
ataset:	Untitled										
ast Altered: rinted:	Friday, May 29, Friday, May 29,	2020 7:49 2020 7:49	:30 AM'Pa :39 AM Pa	acific Daylight Tin acific Daylight Tin	ne ne	_					
lame: 200528	BR2_5, Date: 28-	May-2020,	Time: 15	:02:56, ID: ST20	00528R2_5 1613 (	CS5 19L2307,	Description: 1	1613 CS5 19L2	2307		
,2,3,7,8-PeCl	DF										F2:Voltage SIR,E
00528R2_5 00 ₇				1,2,3,7,8	-PeCDF	2	2,3,4,7,8-PeCDF				339.86
-				30. 1.44	23 🔿		31.21	\			2.855e+00
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0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1					· · · · · · · · · · · ·			<u> </u>	·		
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%				9.36 17001			185700144				
28.50	28.75 29.00	29.25	29.50	29.75 30.0	0 30.25 30	0.50 30.75	31.00 3	1.25 31.50	31.75	32.00 32.25	32.50
3C-1,2,3,7,8-	PeCDF										
00528R2_5						100.0	0 4 7 0 D- 0DE				F2:Voltage SIR,E 351.90
E-001				13C-1,2,3,7,8- 30.21	PeCDF		3,4,7,8-PeCDF 31.19				1.939e+00
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00528R2_5											F2:Voltage SIR,E
100-3				13C-1,2,3,7,8-	PeCDF	13C-2,	3,4,7,8-PeCDF				353.89 1.233e+00
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	and the second second	-	-	1190173	7	1	12242805				m
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1			1		30	.49		31,53		32.2	7
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Work Order 2001005

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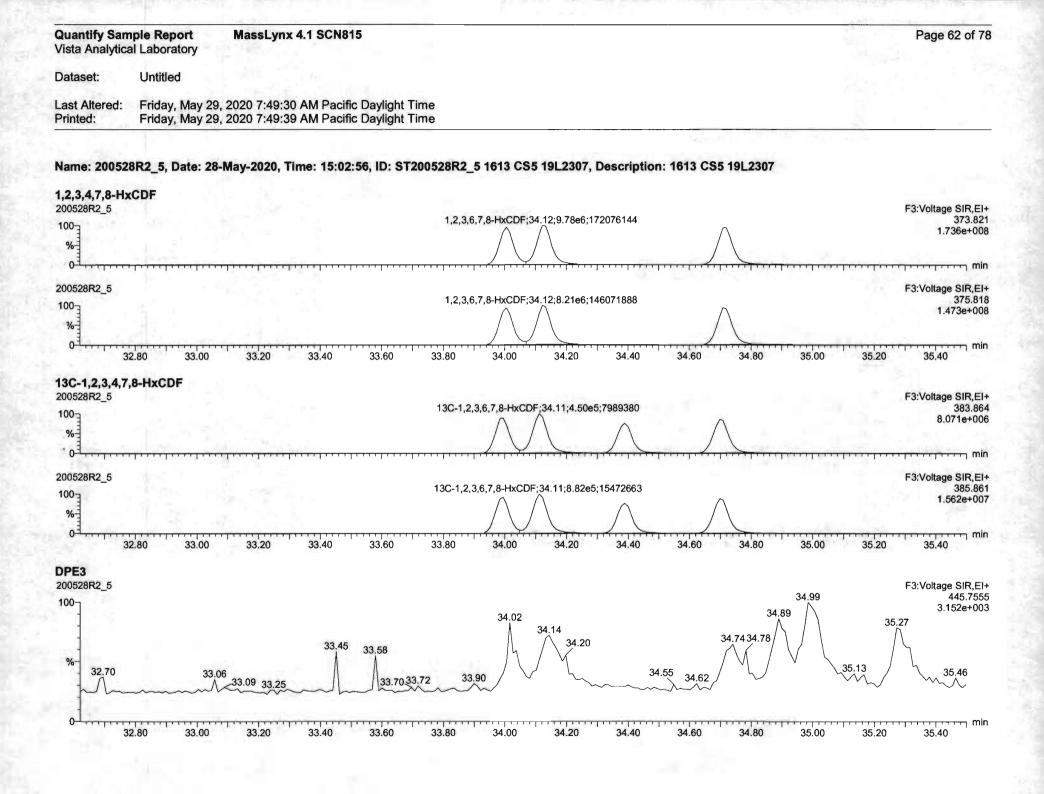
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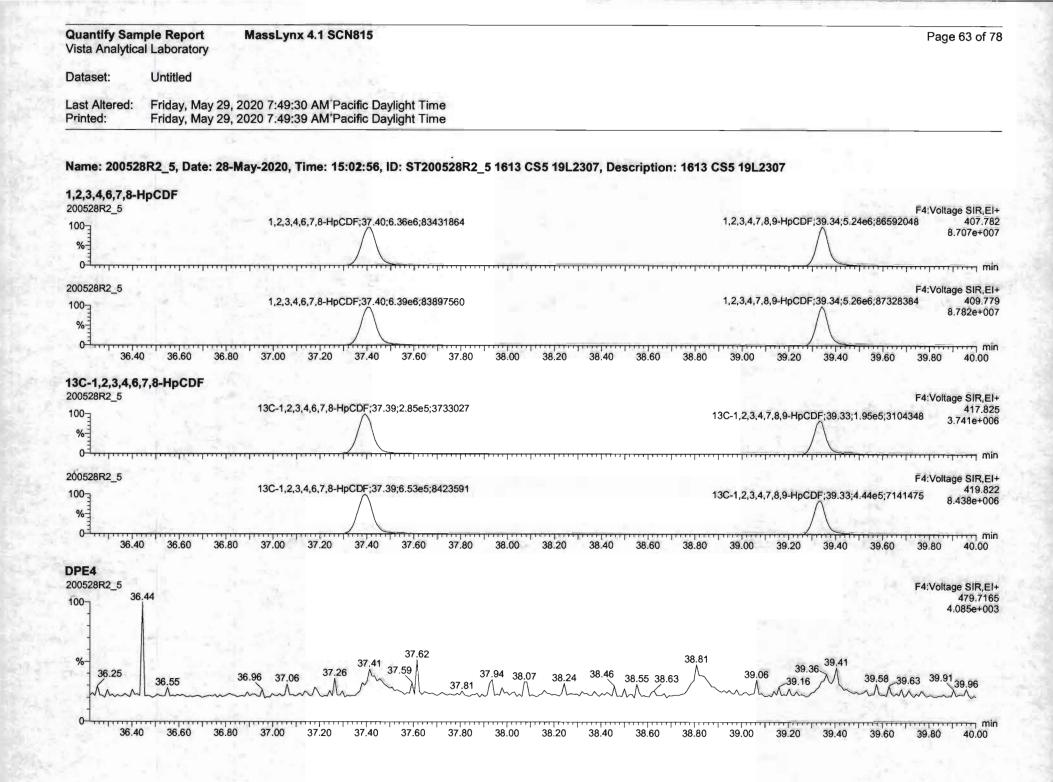
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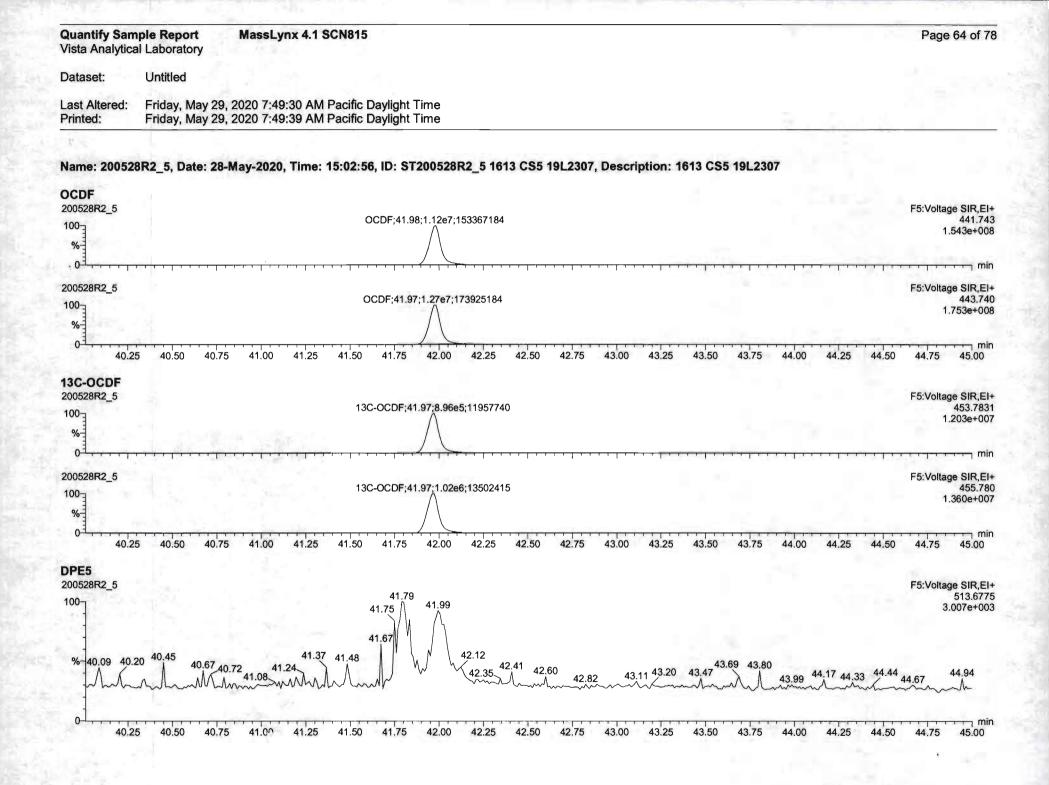
31.00

31.75

min





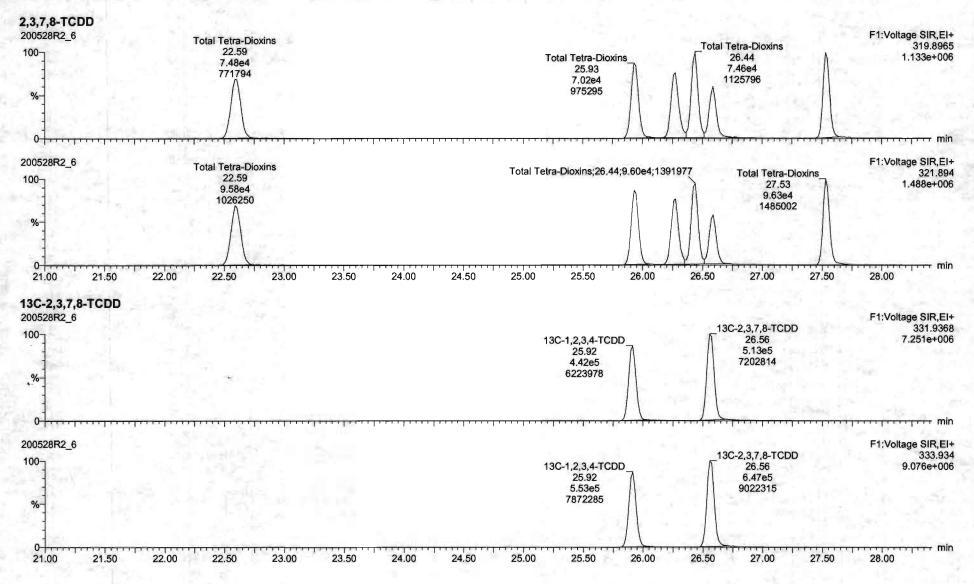


#### Work Order 2001005

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ame: 200528R2_5, Da	ate: 28-May-2020	, Time: 15:02:56, II	D: ST200528R2_5	5 1613 CS5 19L23	07, Description: 16	313 CS5 19L23	07	
FK1								
00528R2_5						05.50	00.05 07.5	F1:Voltage SIR,E
00-20.02;1.21e4;129914	20.62 20.72	21.4121.54 21.98	22.73;5.70e3;98634	23.74	25.00;1.97e4;2201	91 25.59 26.14	26.65 26.84 27.5	6;3.41e4;368222 316.98
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0 ⁻¹	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
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00528R2_5		00.00			31.11	31.37		F2:Voltage SIR,E
28.69;1.03e5;664747 28.55	29.10 29	29.80	30.17	30.35 30.47 30.61 30.	81 30.89 31.05 31.11		31.85;2.50e4;246305	32.06 32.35 366.97 1.598e+0
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FK3								F3:Voltage SIR,E
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00528R2_5 00_32.81;2.76e6;4090882	32.81;2.76e6;409			34.27 34.40	34.60 34.75	34.95 35.08	35.39 3	5.60 35.88 360.97
00528R2_5 00_32.81;2.76e6;4090882 %	32.81;2.76e6;409			34.27 34.40	34.60 34.75	34.95 35.08	35.39 3	5.60 50.00 8.482e+0
00_32.81;2.76e6;4090882	32.81;2.76e6;409		·····	34.27 34.40	34.60 34.75			5.60 5.00 8.4826+0
00_32.81;2.76e6;4090882 %		3.40 33.60 3	3.80 34.00	<u>34.27</u> <u>34.40</u> 34.20 <u>34.40</u>	<u>34.60</u> <u>34.75</u> 34.60 <u>34.80</u>	34.95 35.08 35.00 35.2		8.482é+0
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00 32.81;2.76e6;4090882 % 0 0 32.80 33. FK4 00528R2_5 00 36.57;5.38e5;22 % 0 36.40 36.40 36.60 FK5 00 198 207 198 198 198 198 198 198 198 198	295155 36.76 ^{36.90} 36.80 37.00	37.33;3.20e5;162808	3 37.96;1. 37.60 37.80	34.20 34.40 54e4;376001 ^{38.18} 38.00 38.20	34.60 34.80 38.32;3.15e4;524422 38.40 38.60 3 43.06 43 21	35.00 35.2 38.89	20 35.40 3 39.33 39.48 39.20 39.40	8,4826+0 5.60 35.80 36.00 F4:Voltage SIR,t 430.97 6,766e+0 39.60 39.80 40.00 F5:Voltage SIR,t 454.97
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00 32.81;2.76e6;4090882 % 0 32.80 33. FK4 00528R2_5 00 36.57;5.38e5;22 % 0 36.40 36.40 36.60 FK5 00 40.01 7198	00 33.20 3 295155 36.76 ^{36.90} 36.80 37.00 4 25 09 40.93	37.33;3.20e5;162808 37.20 37.40 41.4341.61.41.65	³ 37.96;1. 37.60 37.80 5 41.97 42.06	34.20 34.40 54e4;376001 38.18 38.00 38.20	34.60 34.80 38.32;3.15e4;524422 38.40 38.60 3 43.06 43.21	35.00 35.2 38.89 3.80 39.00	39.33 39.48 39.20 39.40	8,4826+0 5,60 35.80 36.00 F4:Voltage SIR, 430.97 6,766e+0 39.60 39.80 40.00 F5:Voltage SIR, 454 97

Quantify Sam Vista Analytica	and the second se	Page 66 of 78
Dataset:	Untitled	
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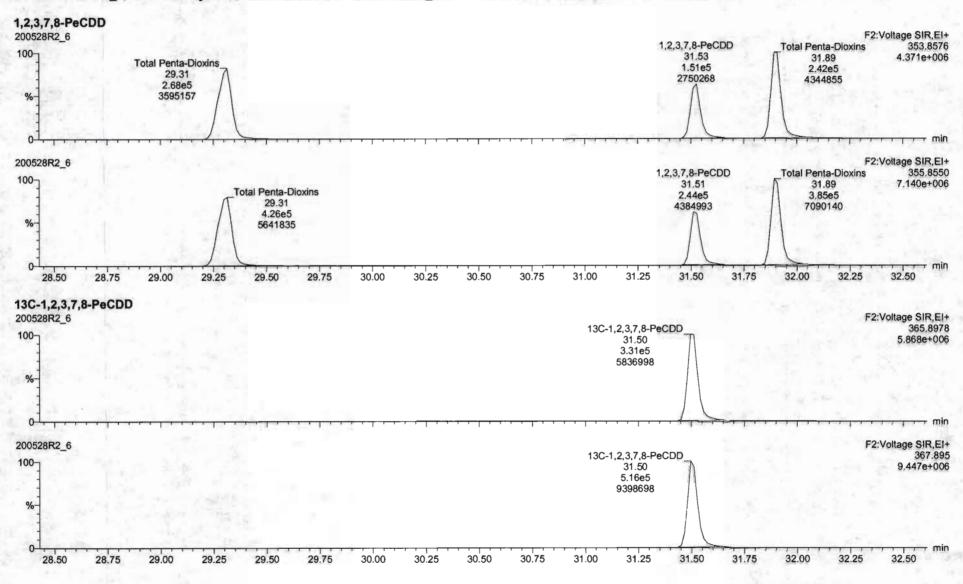


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ast Altered: rinted:	Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time			
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0528R2_6		37CI-2,3,7,8-TCDD		F1:Voltage SIR,E 327.88
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		1.05e5 1633234		
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0528R2_6				F1:Voltage SIR,E
⁰⁰		13C-1,2,3,4-TCDD_	_13C-2,3,7,8-TCDD ∬ 26.56	331.936 7.251e+00
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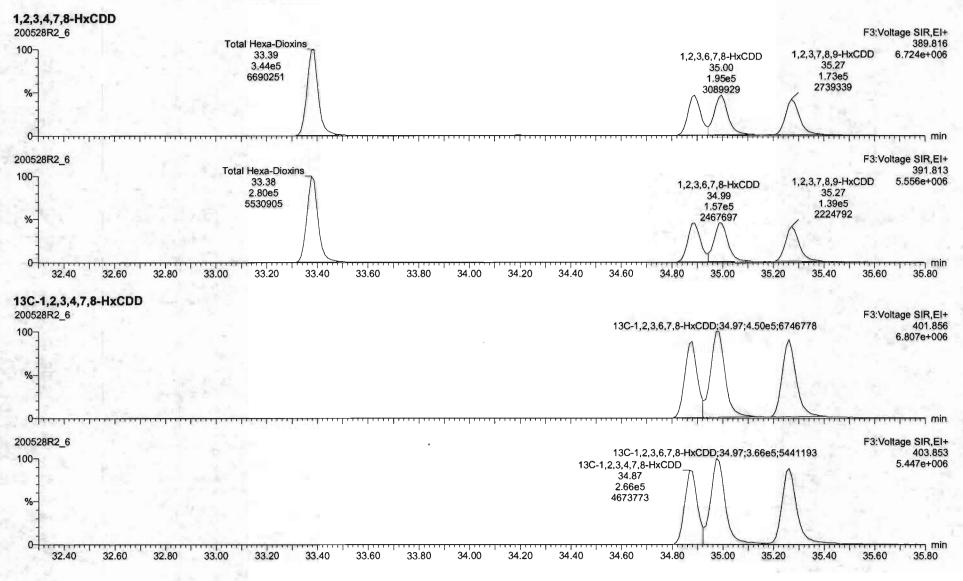
Work Order 2001005

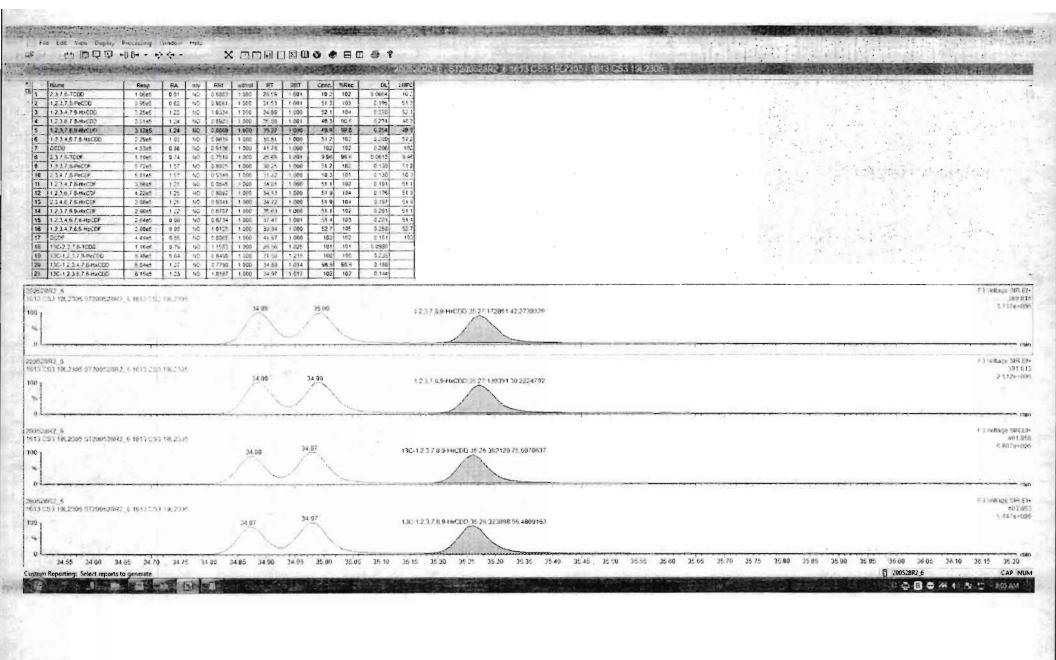
Quantify Sam Vista Analytica		Page 68 of 78
Dataset:	Untitled	
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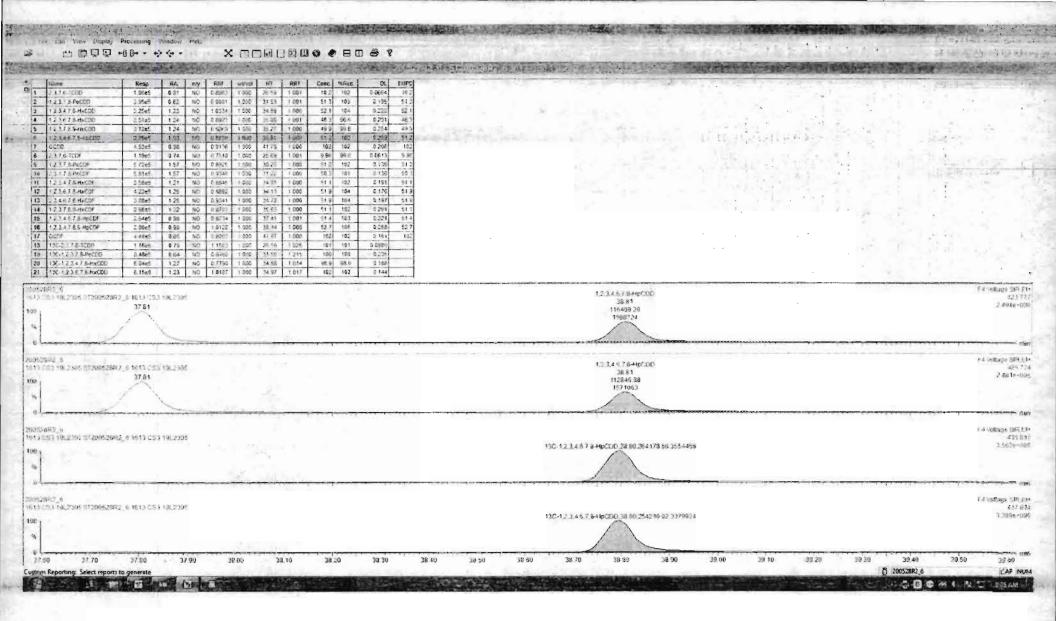


Quantify Sam Vista Analytica		Page 69 of 78
Dataset:	Untitled	
Last Altered: Printed:	Friday, May 29, 2020 7:49:30 AM Pacific Daylight Time Friday, May 29, 2020 7:49:39 AM Pacific Daylight Time	
Name: 20052	3R2_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305	1



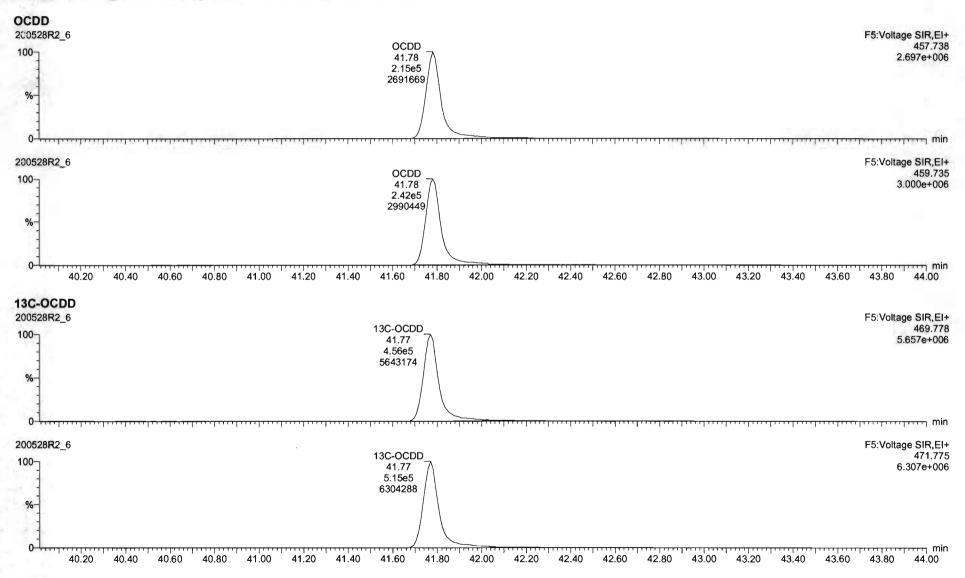


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ataset:	Untitled			
ast Altered: rinted:	Friday, May 29, 2020 7:49:30 AM Pa Friday, May 29, 2020 7:49:39 AM Pa	cific Daylight Time cific Daylight Time		
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2,3,4,6,7,8-H	HpCDD			F4:Voltage SIR,
- 00		_Total Hepta-Dioxins ∕∑ 37.81	1,2,3,4,6,7,8-HpCDD 38.81	423.7 2.494e+(
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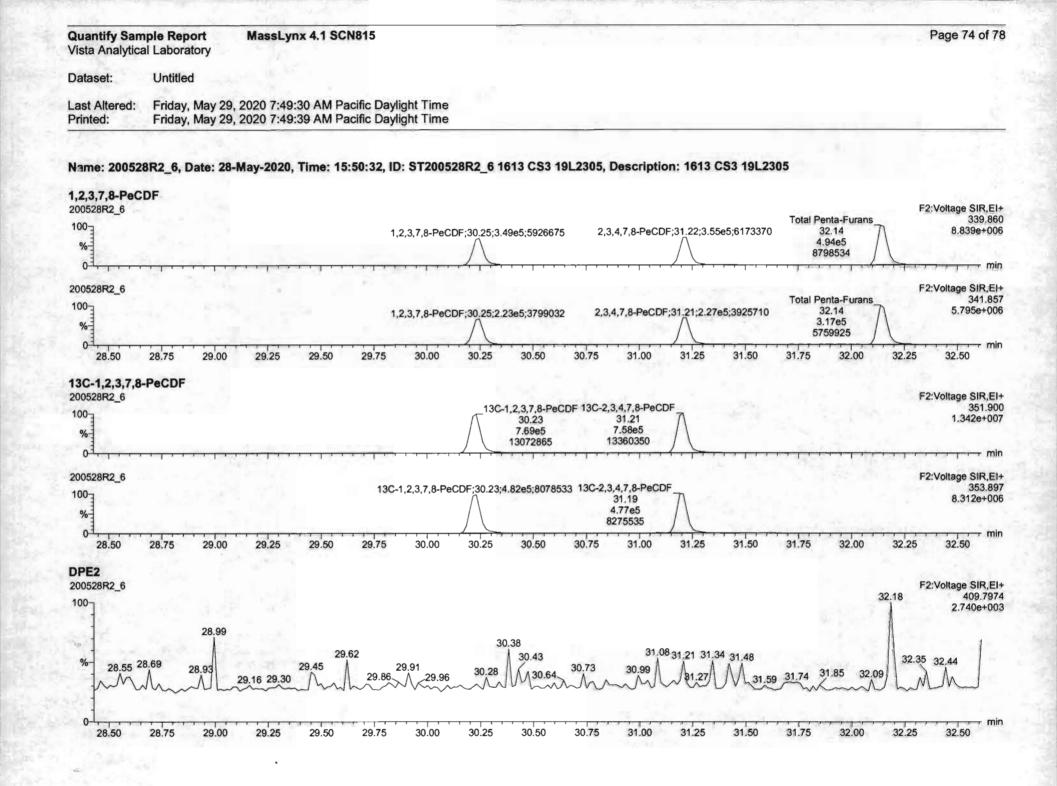


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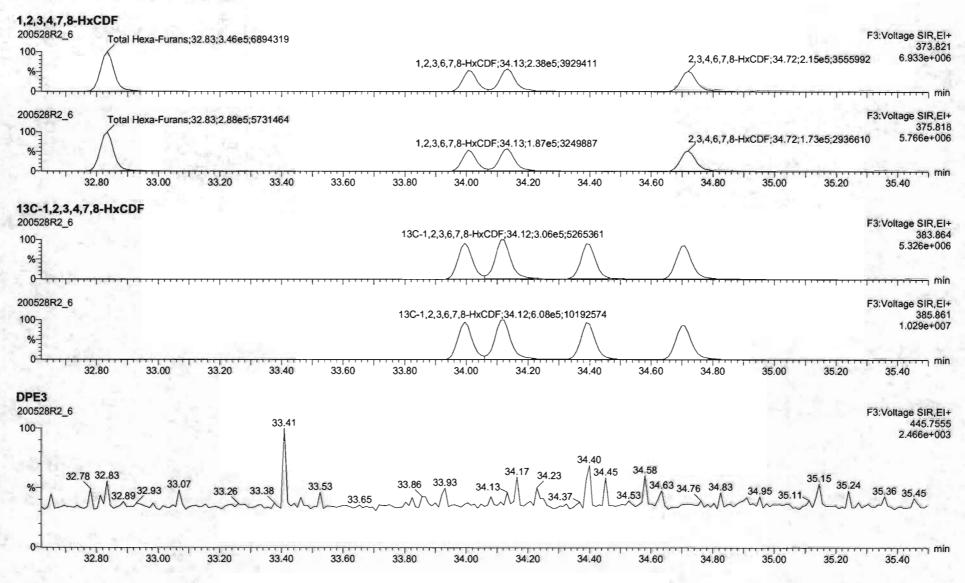
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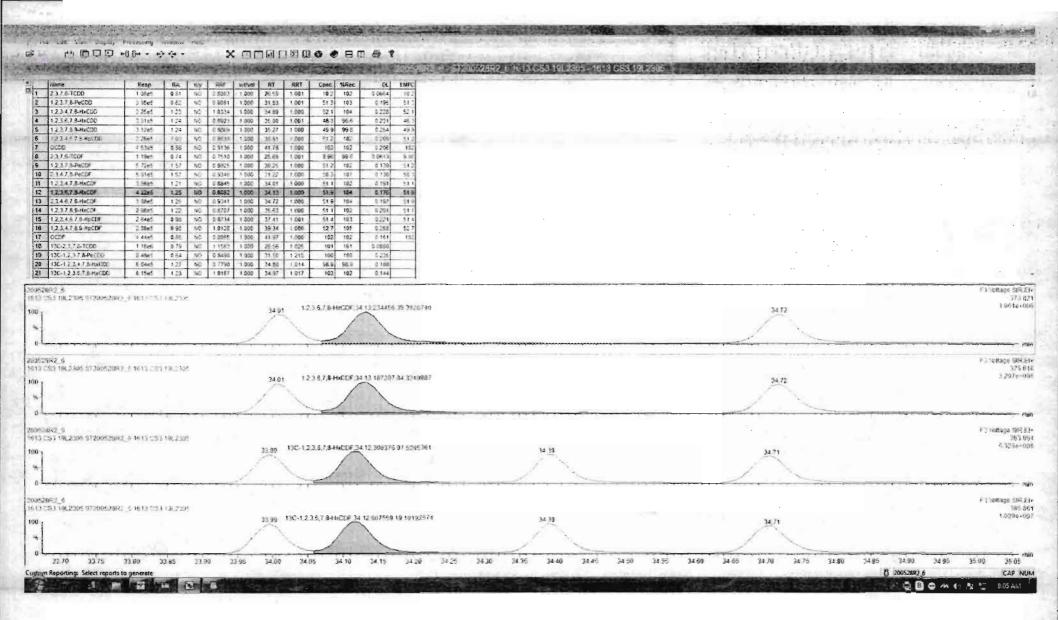


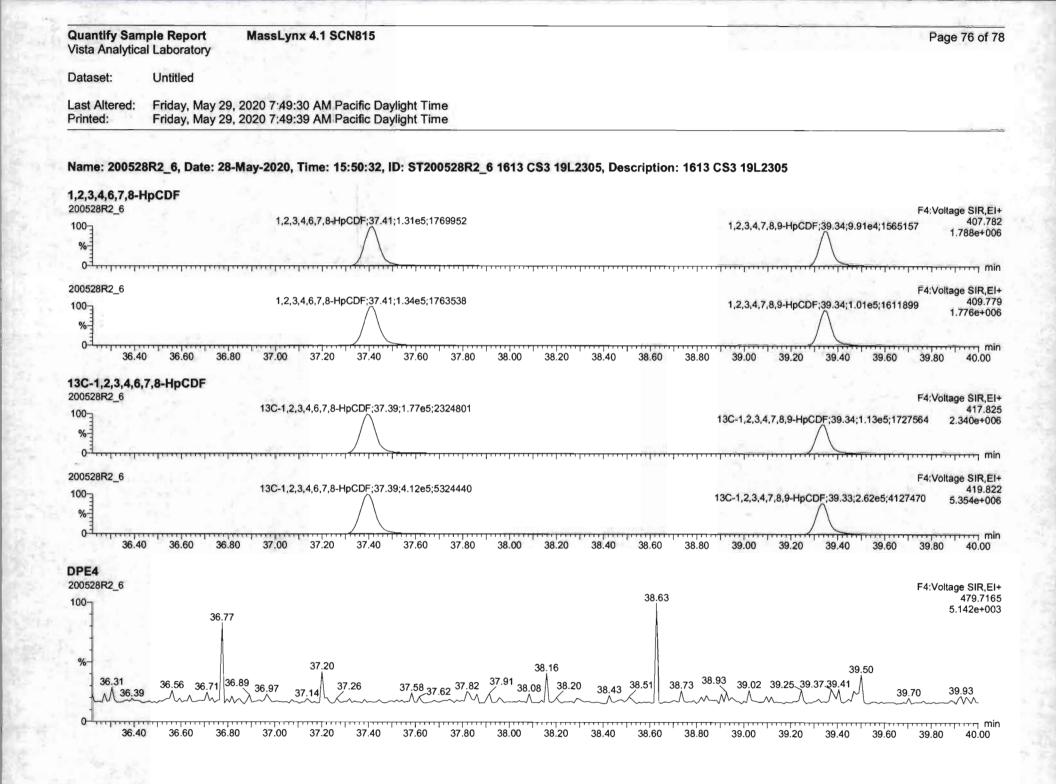
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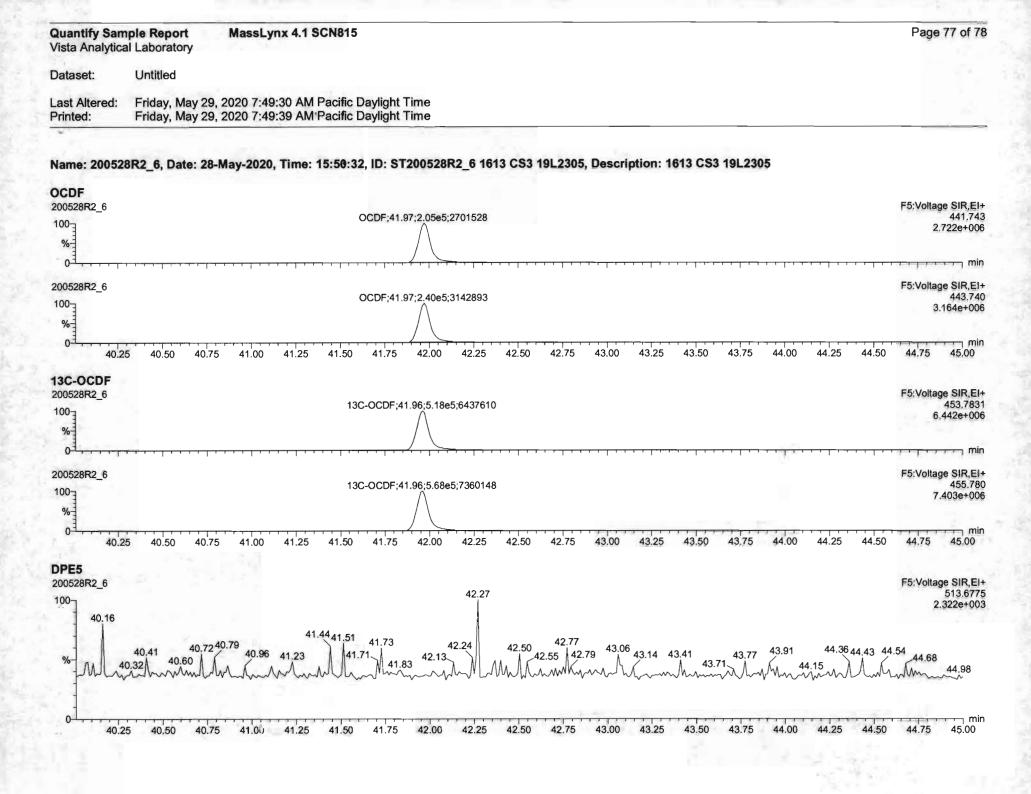
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28.50 FK3 00528R2_6 00 32.82;5.05 % 32.77 0 32.77 32.77 32.77 0 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.77 32.82;5.05 % 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 33.77 33.77 33.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77 35.77	e5;3284728 80 33.00 96.63;6.97e5;27348	33.25 33.61 33.20 33.40 33.60 33.60 33.60 33.60 33.60 33.60 33.61	<u>33.71</u> <u>33.99</u> 33.80 34.00 <u>37.79</u> <u>37.8</u>	34.20 34.40 8	34.69 34.85 34.60 34.80 38.43	35.00 35. 38.86 39.03	<u>35.32</u> <u>35.4</u> 20 <u>35.40</u> <u>39.34</u>	6 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5 32.50 F3:Voltage SIR, f 35.89 380.97 35.80 380.40 35.80 36.00 F4:Voltage SIR, f 39.86 430.97 6.340e+0
28.50 FK3 00528R2_6 00 32.82;5.05 % 32.77 0 32.77 32.77 32.77 0 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.82;5.05 % 32.77 32.82;5.05 % 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 33.77 35.74 57 35.74 57 57 57 57 57 57 57 57 57 57	e5;3284728 80 33.00 96.63;6.97e5;27348	33.25 33.61 33.20 33.40 33.60 33.40 33.60 37.18	<u>33.71</u> <u>33.99</u> 33.80 34.00 <u>37.79</u> <u>37.8</u>	34.20 34.40 8	34.69 34.85 34.60 34.80 38.43	35.00 35. 38.86 39.03	<u>35.32</u> <u>35.4</u> 20 <u>35.40</u> <u>39.34</u>	6 35.60 39.48	5 32.50 F3:Voltage SIR,t 35.89 380.97 35.89 8.8946+0 5.80 36.00 F4:Voltage SIR,t 39.86 430.97 6.340e+0
28.50 FK3 00528R2_6 00 32.82;5.05 32.77 0 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.82;5.05 32.62 4 00 32.82;5.05 32.82;5.05 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.62 32.77 32.62 32.62 32.62	e5;3284728 80 33.00 96.63;6.97e5;27348	33.25 33.61 33.20 33.40 33.60 33.40 33.60 37.18	33.71 33.99 33.80 34.00 37.79 37.8	34.20 34.40 8	34.69 34.85 34.60 34.80 38.43	35.00 35. 38.86 39.03	<u>35.32</u> <u>35.4</u> 20 <u>35.40</u> <u>39.34</u>	6 35.60 39.48	5 32.50 F3:Voltage SIR,t 35.89 380.97 35.80 380.49 735.80 36.00 F4:Voltage SIR,t 39.86 430.97 6.340e+0
28.50 FK3 00528R2_6 00 32.82;5.05 0 32.77 0 32.77 32.77 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 32.82;5.05 0 0 0 0 0 0 0 0 0 0 0 0 0	e5;3284728 80 33.00 96.63;6.97e5;27348 0 36.60 30	33.25 33.61 33.20 33.40 33.60 33.40 33.60 37.18	33.71 33.99 33.80 34.00 37.79 37.8	34.20 34.40 8 38.00 38.00 38.20 36	34.69 34.85 34.60 34.80 38.43	35.00 35. 38.86 39.03	<u>35.32</u> <u>35.4</u> 20 <u>35.40</u> <u>39.34</u>	6 35.60 39.48	5 32.50 F3:Voltage SIR,E 35.89 8.804e+0 55.80 36.00 F4:Voltage SIR,E 39.86 430.97 6.340e+0
28.50 FK3 00528R2_6 00 32.82;5.05 32.77 0 32.77 32. FK4 00528R2_6 0 36.24 GK5 00528R2_6	e5;3284728 80 33.00 96.63;6.97e5;27348 0 36.60 30 40.48 2.55e5	33.25 33.61 33.20 33.40 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 33.60 35	33.71 33.99 33.80 34.00 37.79 37.8 7.40 37.60 37.80	34.20 34.40 8 38.00 38.00 38.20 36	34.69 34.85 34.60 34.80 38.43	35.00 35. 38.86 39.03 38.80 39.00 3 43.66	<u>35.32</u> <u>35.4</u> 20 <u>35.40</u> <u>39.34</u> 39.20 <u>39.4</u>	6 35.60 39.48 0 39.60 44.43 5.15e4	5 32.50 F3:Voltage SIR,E 35.89 380.97 35.80 380.97 35.80 36.00 F4:Voltage SIR,E 39.86 430.97 6.340e+0 739.80 40.00 F5:Voltage SIR,E 454.97
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 Quantify Sample Summary Report
 MassLynx 4.1 SCN815

 Vista Analytical Laboratory
 MassLynx 4.1 SCN815

Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered:	Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time
Printed:	Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

GRB 05/29/2020

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

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	-
20	20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.779	1.000	34.874	34.87	1.014	1.014	88.587	88.6	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.02	1.000	34.987	34.97	1.017	1.017	88.739	88.7	0.138	1
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	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	
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	12
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	1
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	1.0
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	100
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	

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

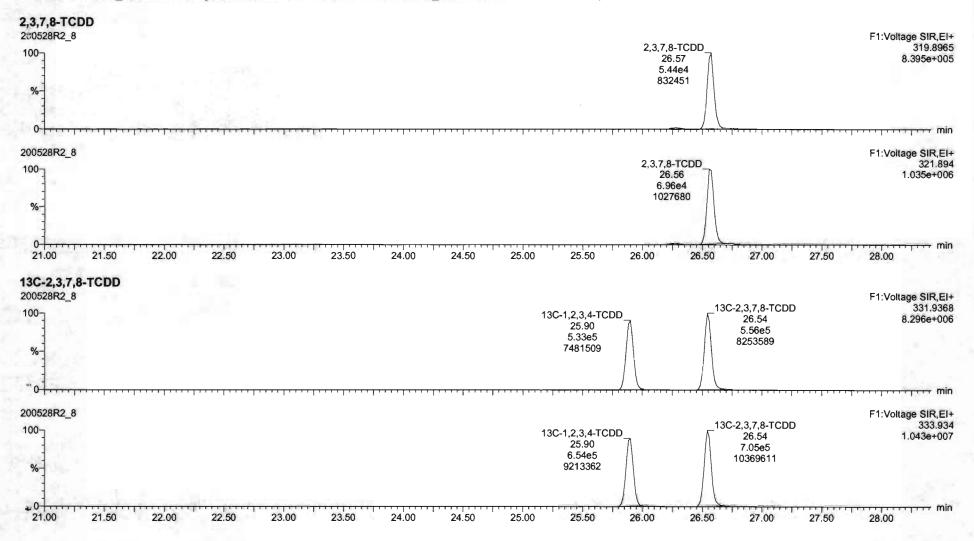
Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

Last Altered:	Friday, May 29, 2020 7:44:05 AM Pacific Daylight Time
Printed:	Friday, May 29, 2020 7:44:35 AM Pacific Daylight Time

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	

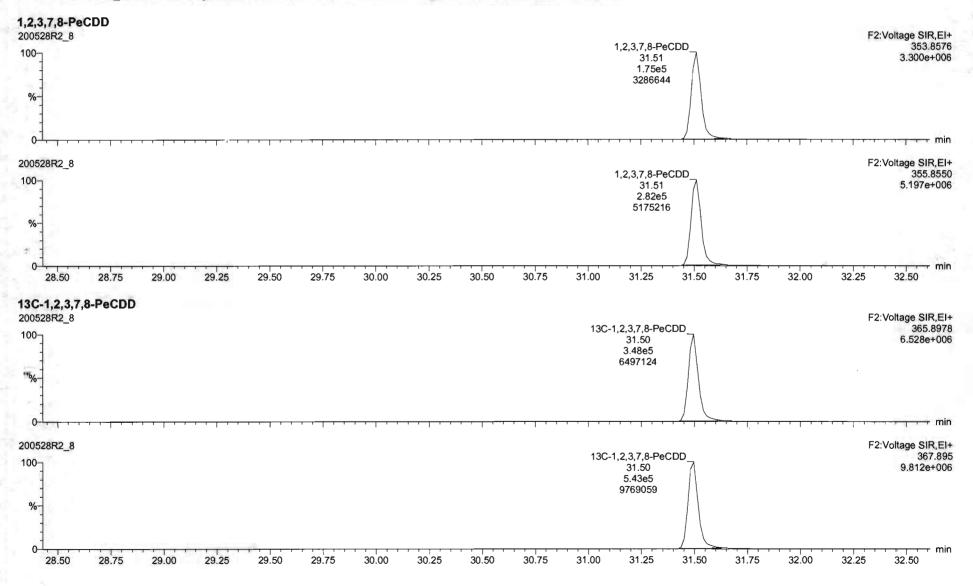
Quantify San Vista Analytica		Page 1 of 13
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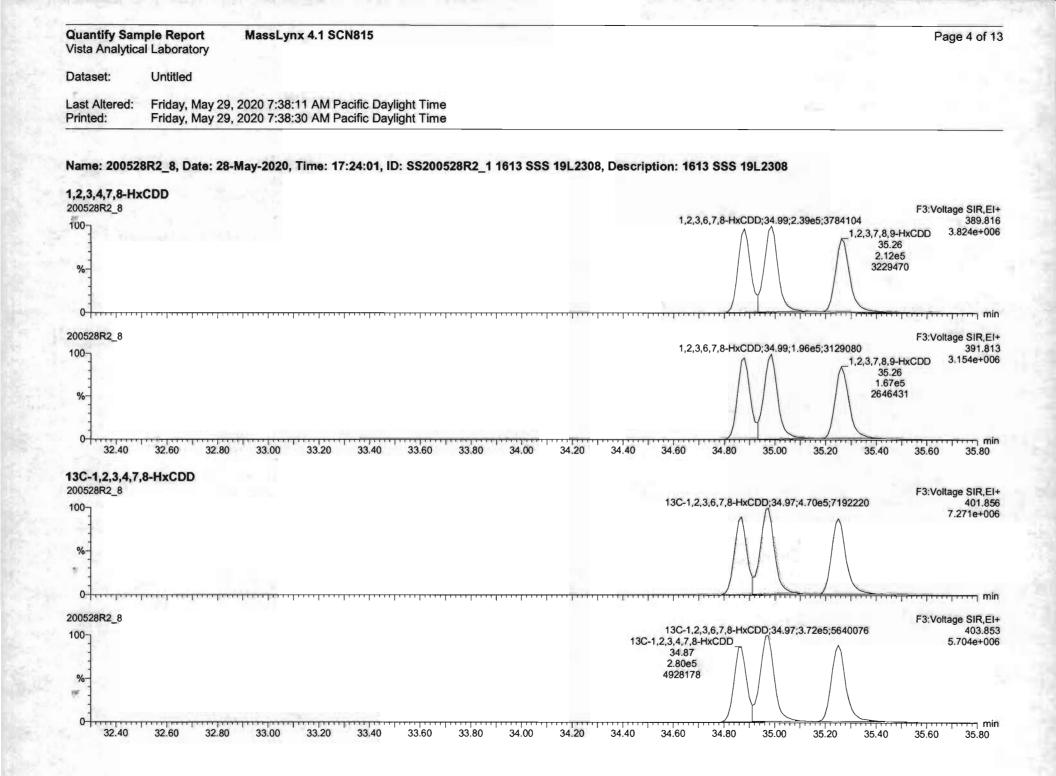
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37CI-2,3,7,8-T	CDD				F1:Voltage SIR,EI
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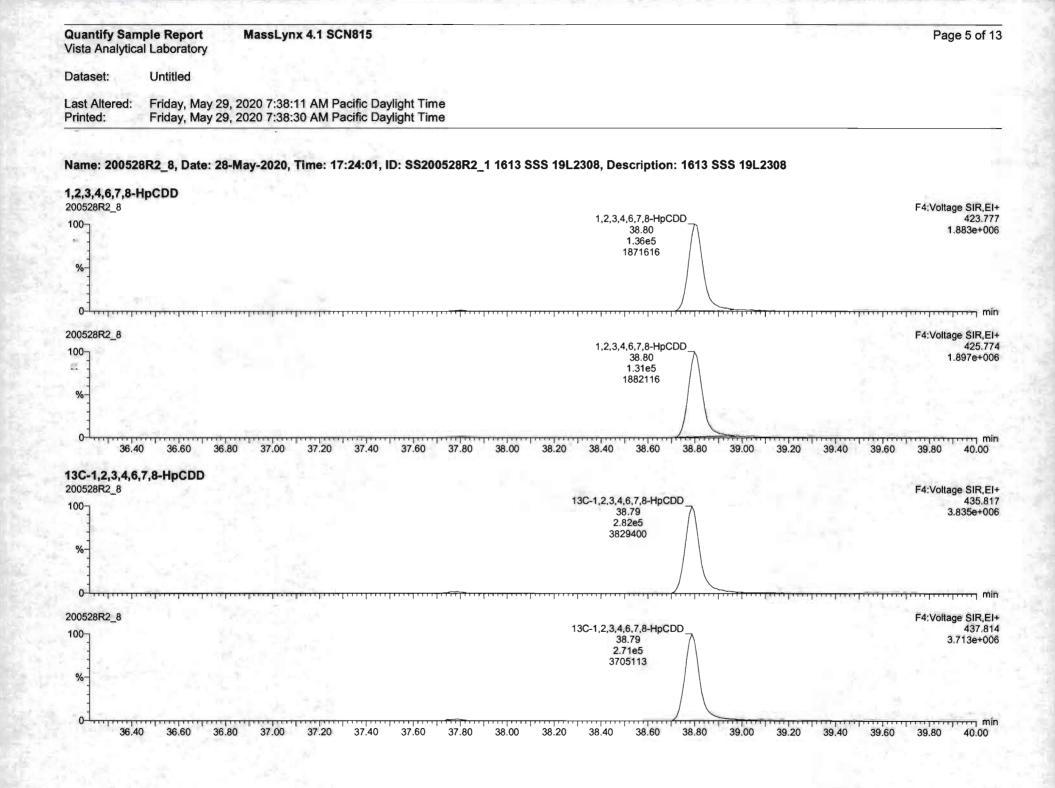
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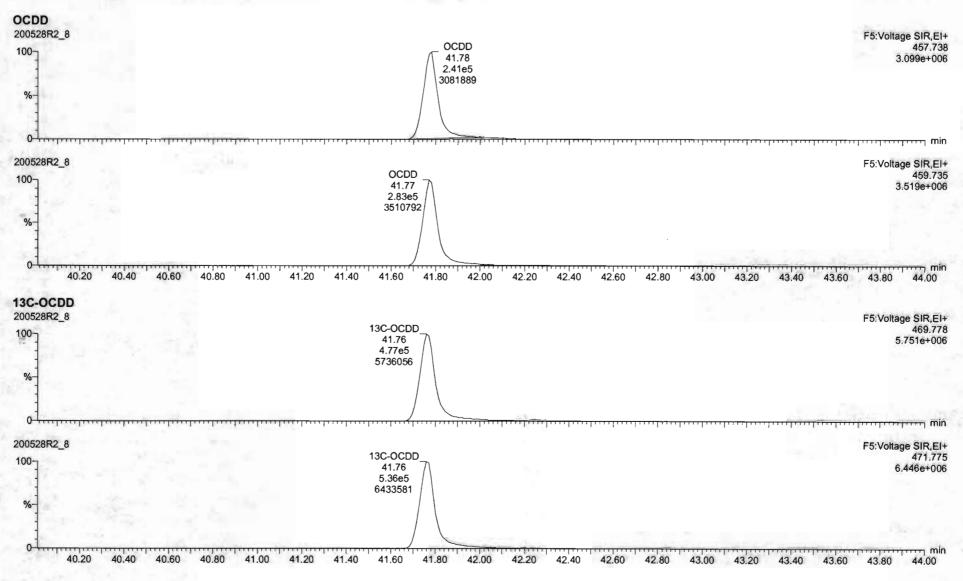
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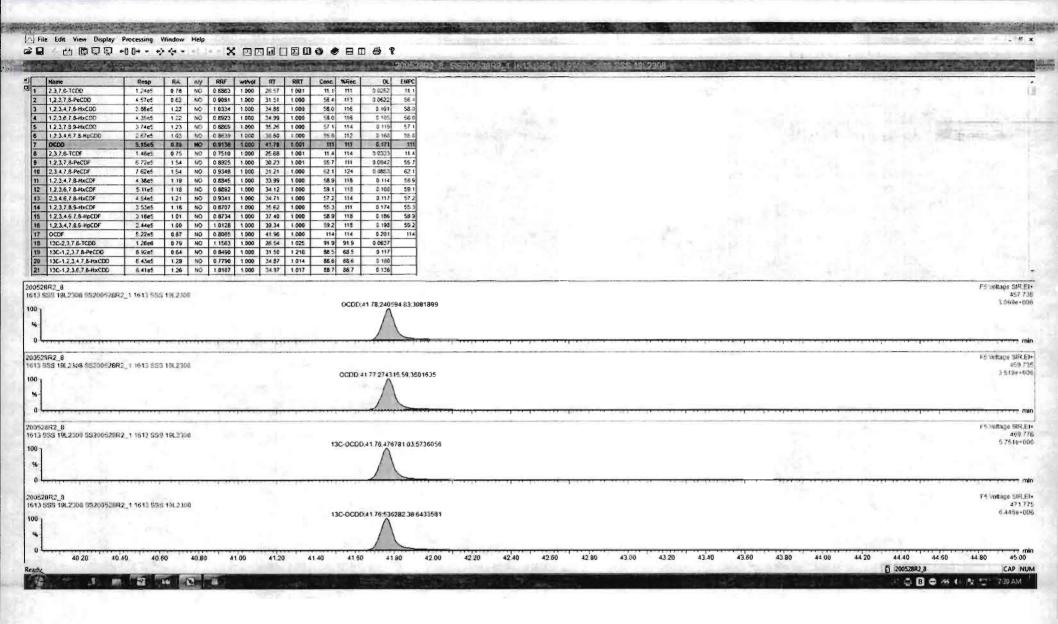
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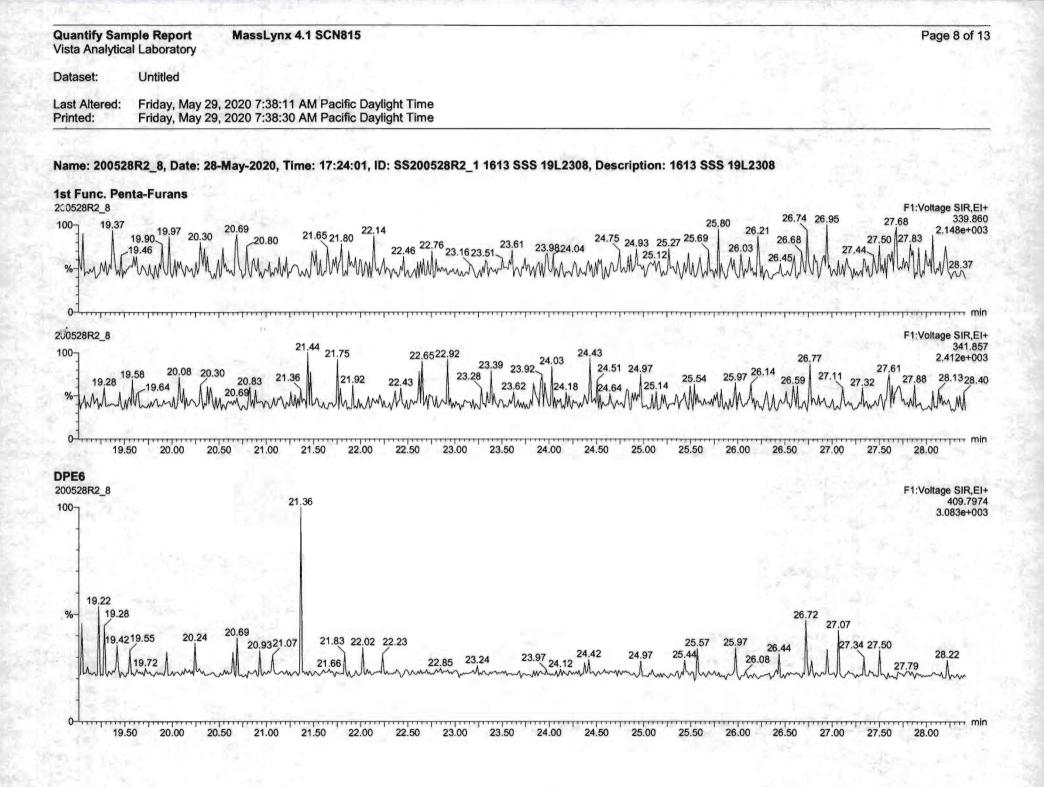
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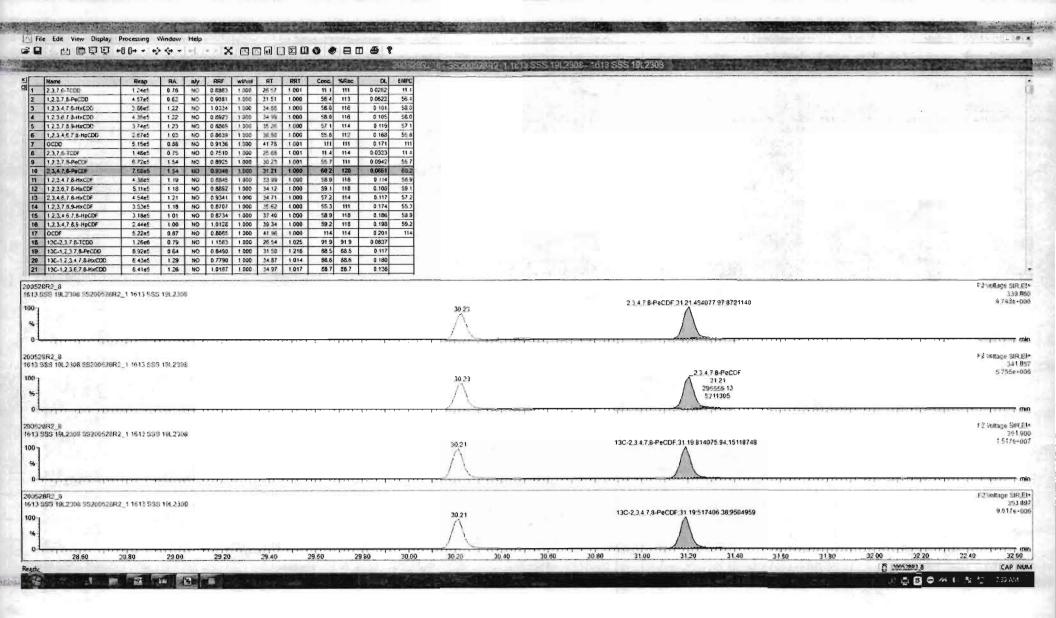


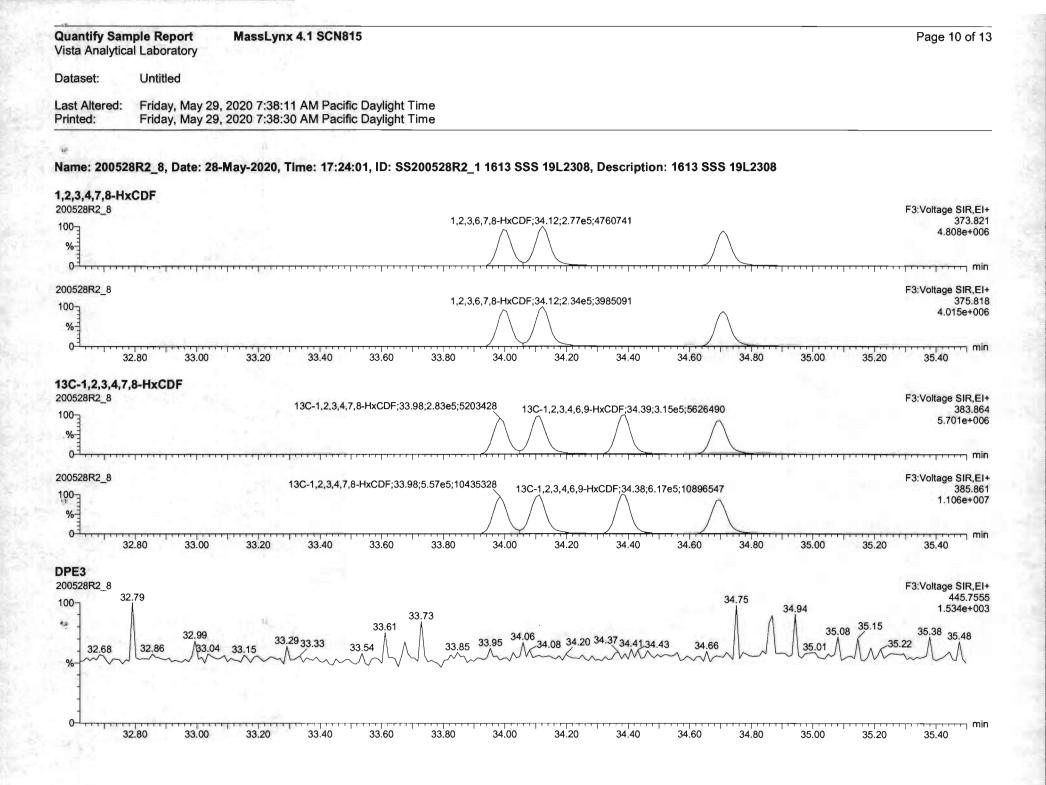


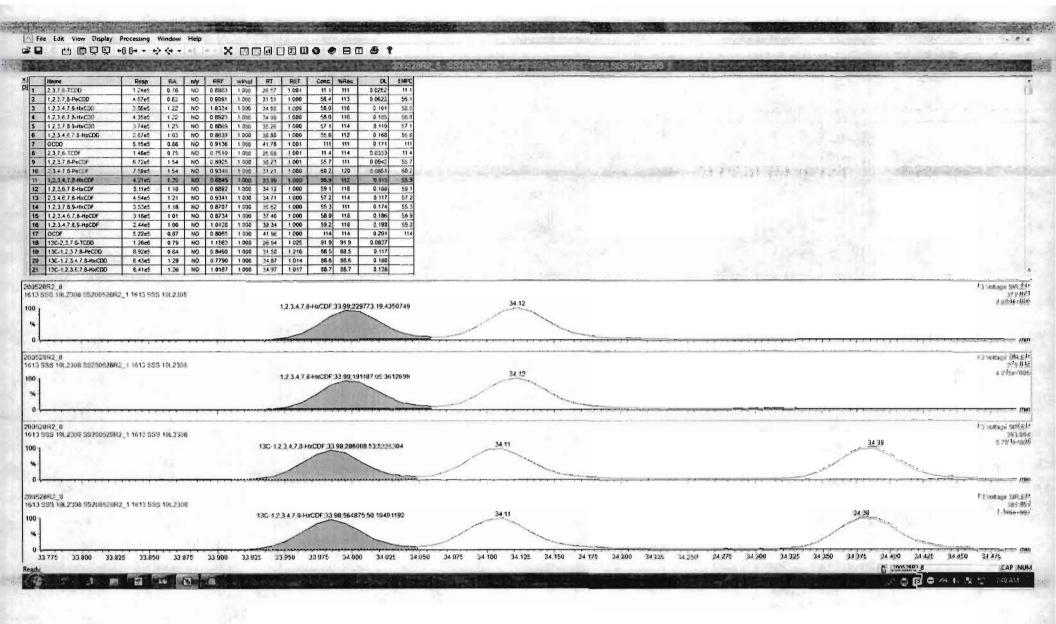
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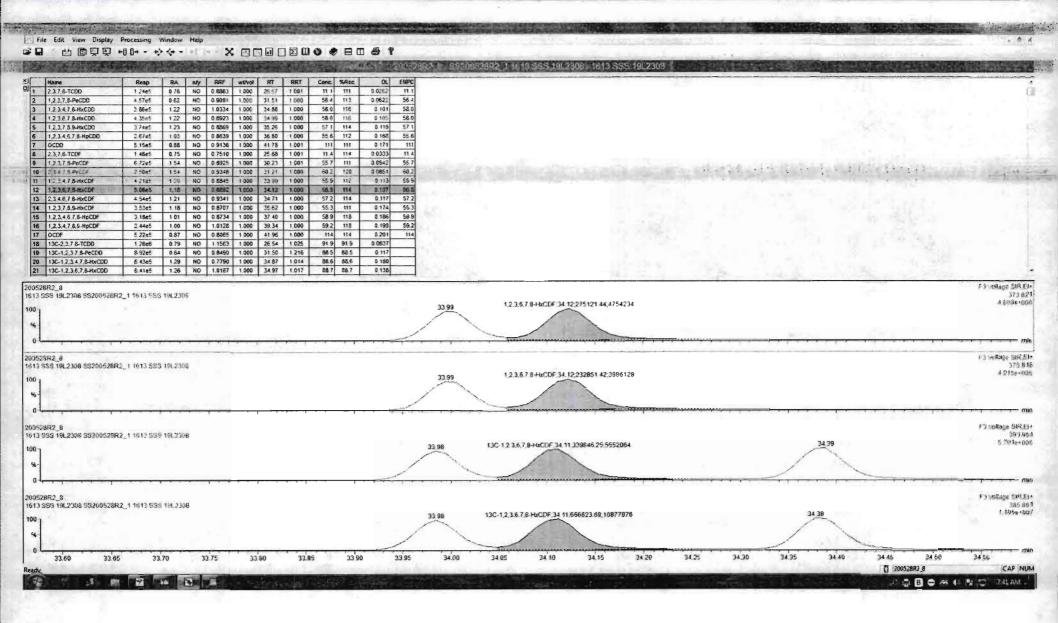
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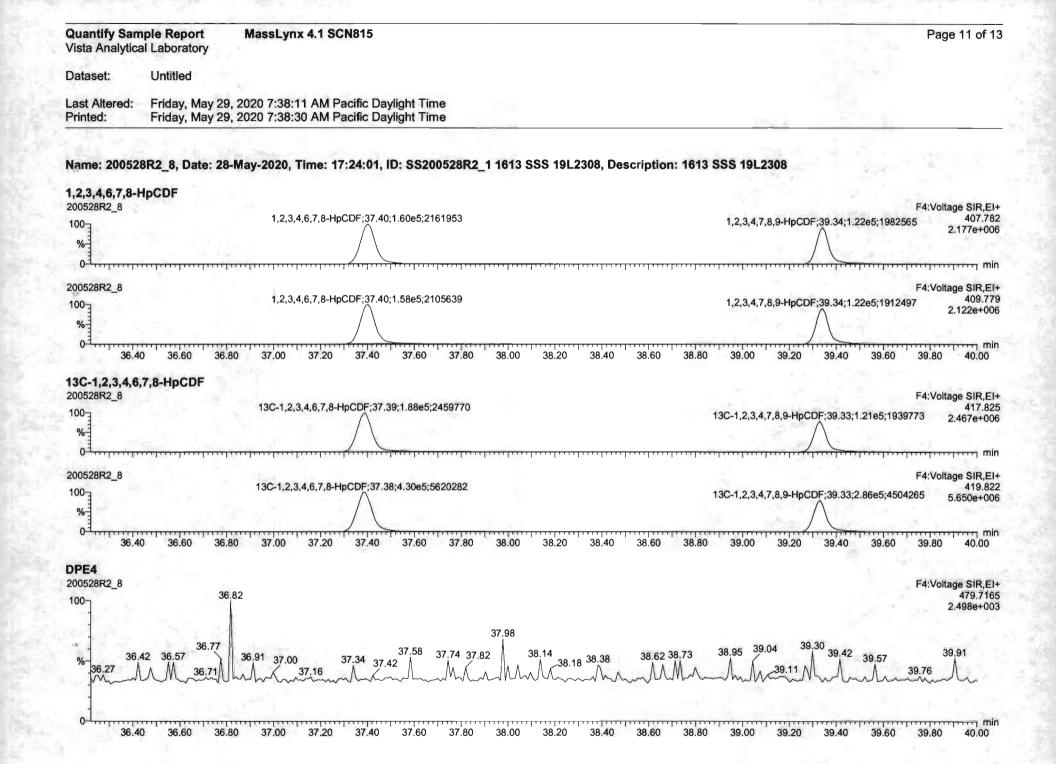


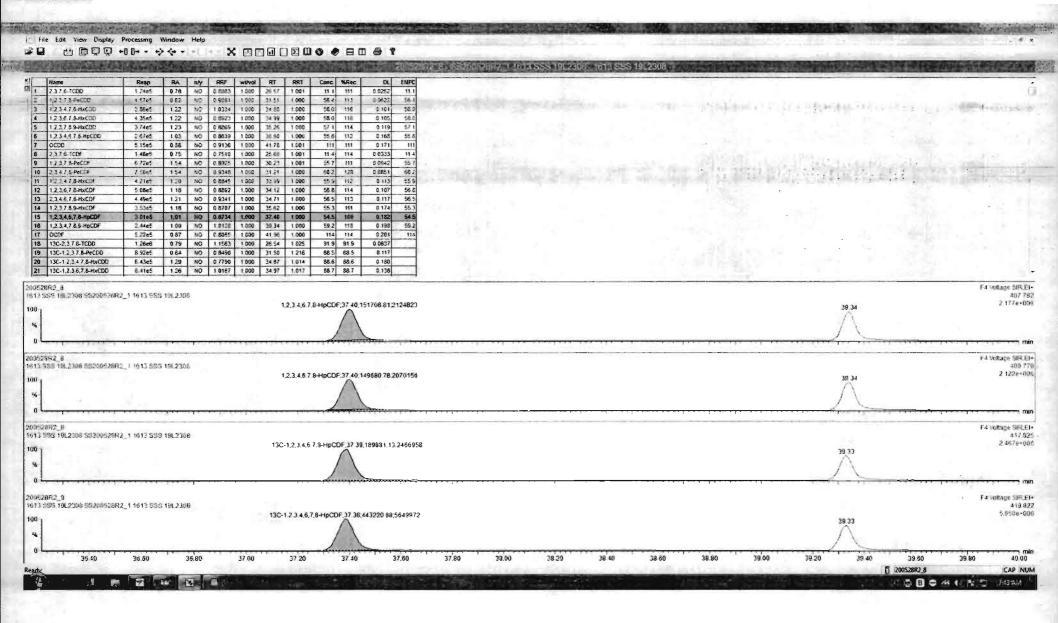


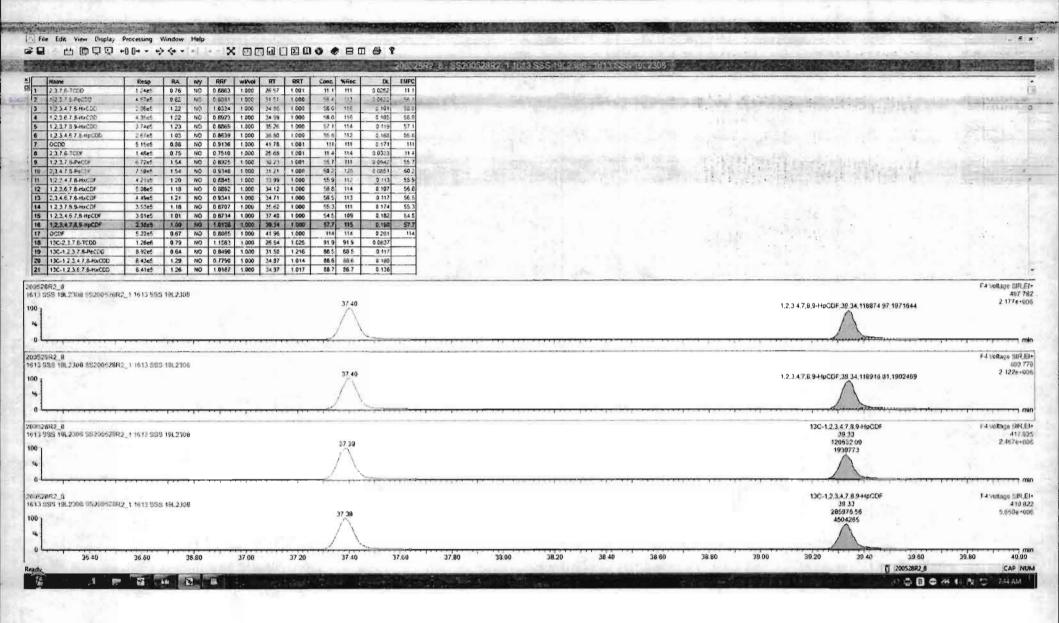
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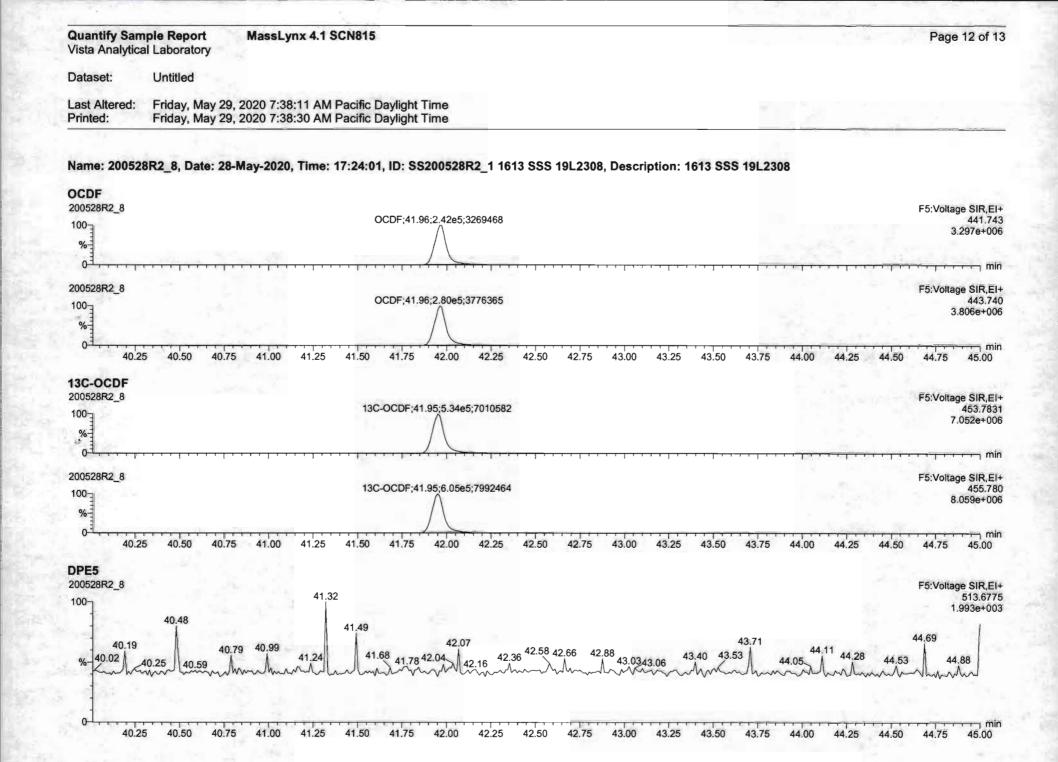


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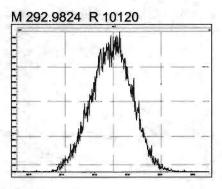
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Ę	28.96;1.51e5;344216 29.22 29.53 29.57 29.71 29.96 30.03 30.34 30.61	;2.46e4;205747 30.83 31.08 3	31.18 31.40 31.60	31.97 32.2432.37 32.41 366.9 +
6	28.96;1.51e5;344216 29.22 29.53 29.57 29.71 29.96 30.03 30.34 30.61 28.75 29.00 29.25 29.50 29.75 30.00 30.25 30	30.63 31.06	31.25 31.50 31.60 31.25 31.50 31.75	31.97 32.2432.37 32.44
28.50 28.50 K3 528R2_8	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30	30.63 31.06		31.37 32.2432.37 32.41 4.350e+
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K3 28.50 K3 0528R2_8 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 33.63 0 33.63 0 35.28 8 0 36.22 0 36.42 5528R2_8 0 36.42 5528R2_8 0 36.42 5528R2_8 0 36.42 5528R2_8 0 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 55	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30 33.12;8.10e5;3029193 33.71;1.68e5;1568872 34 32.80 33.00 33.20 33.40 33.60 33.80 34.00 34.20 36.73;6.18e5;2379396 37.17 37.55 37.84 6.40 36.60 36.80 37.00 37.20 37.40 37.60 37.80 38.00	30.83 31.06 50 30.75 31.00 3 .44;1.49e5;1167734 34.72 34.40 34.60 34.80 38.28 38.40 38.55 38. 38.20 38.40 38.60 42.01 42	31.25 31.50 31.75 35.11 35.00 35.20 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701	31.97 32.24 52.37 52.47 ± 350e+ 32.00 32.25 32.50 F3:Voltage SIR 35.54 35.85 8.683e+ 35.40 35.60 35.80 36.0 F4:Voltage SIR 2.18e5;1332689 39.60 430.9 6.367e+ 39.40 39.60 39.80 40.0 F5:Voltage SIR
K3 0528R2_8 0 32.63 6 K4 0528R2_8 0 36.22 K4 0 36.22 K5 0528R2_8 0 36.4 K5 0528R2_8 0 0 0 0 0 0 0 0 0 0 0 0 0	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30 33.12;8.10e5;3029193 33.71;1.68e5;1568872 34 32.80 33.00 33.20 33.40 33.60 33.80 34.00 34.20 36.73;6.18e5;2379396 37.17 37.55 37.84 6.40 36.60 36.80 37.00 37.20 37.40 37.60 37.80 38.00	.44;1.49e5;1167734 34.72 .44;1.49e5;1167734 34.72 .34.40 34.60 34.80 .38.28 38.40 38.55 38.	31.25 31.50 31.75 35.11 35.00 35.20 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35e4;428700 .87;3.35;3.55e4;428700 .87;3.55e4;428700 .87;3.5	31.97 32.24 52.37 52.47 ± 350e+ 32.00 32.25 32.50 F3:Voltage SIR 35.54 35.85 8.683e+ 35.40 35.60 35.80 36.0 F4:Voltage SIR 2.18e5;1332689 39.60 430.9 6.367e+ 39.40 39.60 39.80 40.0 F5:Voltage SIR
K3 28.50 K3 0528R2_8 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 33.63 0 33.63 0 35.28 8 0 36.22 0 36.42 5528R2_8 0 36.42 5528R2_8 0 36.42 5528R2_8 0 36.42 5528R2_8 0 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 36.42 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5528R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 5558R2_8 55	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30 33.12;8.10e5;3029193 33.71;1.68e5;1568872 34 32.80 33.00 33.20 33.40 33.60 33.80 34.00 34.20 36.73;6.18e5;2379396 37.17 37.55 37.84 6.40 36.60 36.80 37.00 37.20 37.40 37.60 37.80 38.00	30.83 31.06 50 30.75 31.00 3 .44;1.49e5;1167734 34.72 34.40 34.60 34.80 38.28 38.40 38.55 38. 38.20 38.40 38.60 42.01 42	31.25 31.50 31.75 35.11 35.00 35.20 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701 .87;3.35e4;428701	31.97 32.2452.51.52241 ± 350e+ 32.00 32.25 32.50 F3:Voltage SIR 380.9 35.54 35.85 8.683e+ 35.40 35.60 35.80 36.0 2.18e5;13326689 39.60 430.9 39.40 39.60 39.80 40.0 F5:Voltage SIR 39.40 F5:Voltage SIR 44 19

MassLynx 4.1 SCN815

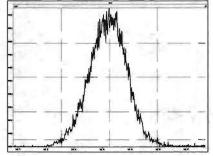
Page 1 of 1

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

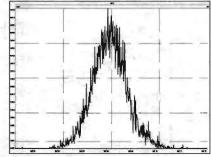
Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

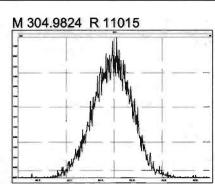


M 342.9792 R 11107

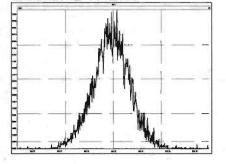


M 392.9760 R 13589

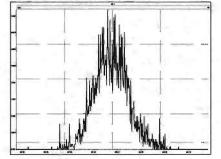


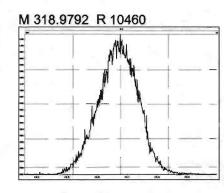


M 354.9792 R 12193

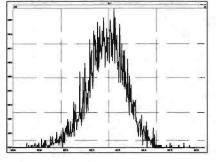


M 404.9760 R 14045

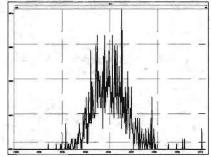


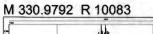


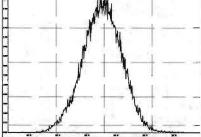
M 366.9792 R 12311



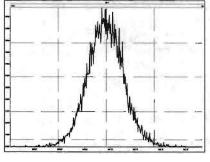
M 416.9760 R 18245







M 380.9760 R 11904

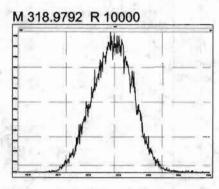


MassLynx 4.1 SCN815

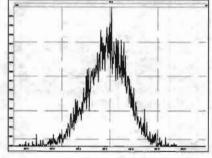
Page 1 of 1

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

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

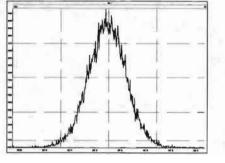


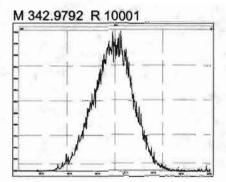
M 366.9792 R 11015



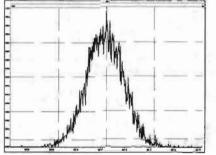
M 330.9792 R 10372

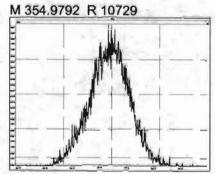
M 380.9760 R 11009



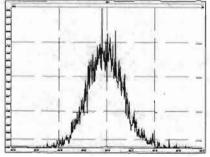


M 392.9760 R 11735

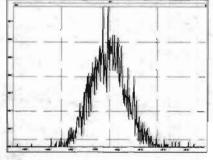




M 404.9760 R 12196



M 416.9760 R 14968

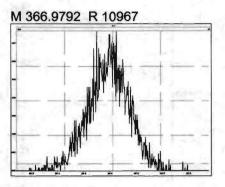


MassLynx 4.1 SCN815

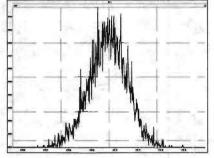
Page 1 of 1

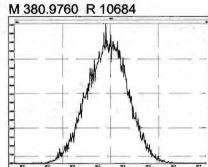
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Printed: Friday, May 29, 2020 07:19:38 Pacific Daylight Time

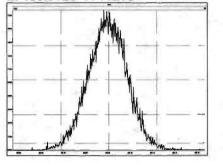


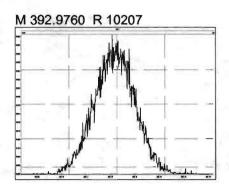
M 416.9760 R 11160

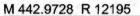


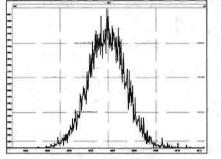


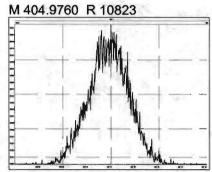
M 430.9728 R 11208



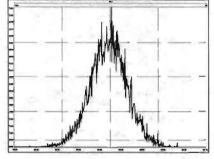








M 454.9728 R 10963

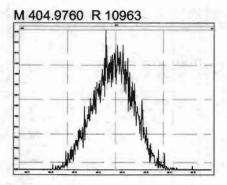


MassLynx 4.1 SCN815

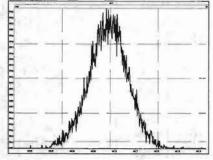
Page 1 of 1

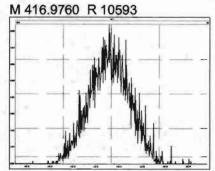
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Printed: Friday, May 29, 2020 07:19:53 Pacific Daylight Time

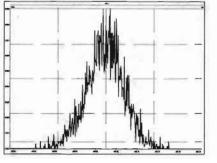


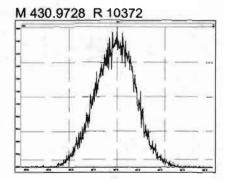
M 454.9728 R 11792

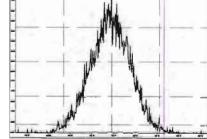




M 466.9728 R 12628

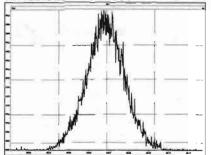






M 442.9728 R 10727

M 480.9696 R 11111

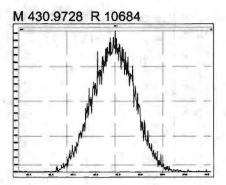


MassLynx 4.1 SCN815

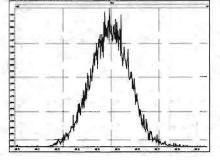
Page 1 of 1

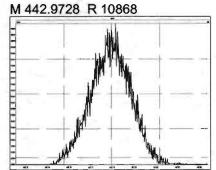
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Printed: Friday, May 29, 2020 07:20:18 Pacific Daylight Time

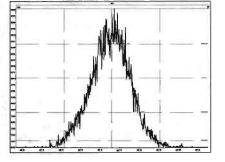


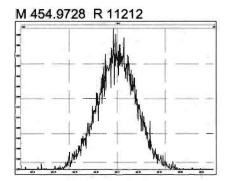
M 480.9696 R 10963



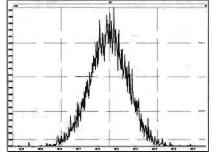


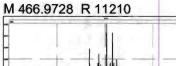
M 492.9696 R 10593





M 504.9696 R 11681





M 516.9697 R 11905

