

February 28, 2020

## Vista Work Order No. 2000329

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 February 17, 2020 under your Project Name 'Gasco PDI 000029-02.59'.

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. 2000329 Case Narrative

## Sample Condition on Receipt:

Five 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

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

## Quality Control

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. The concentrations of OCDD, 1,2,3,4,6,7,8-HpCDF and OCDF were 0.667 pg/g, 0.453 pg/g and 0.312 pg/g, respectively, in the Method Blank. No other analytes were detected in the Method Blank. The OPR recoveries were within the method acceptance criteria.

A duplicate was performed on sample "PDI-100SC-J-09-10-190926". The RPDs were out of the acceptance criteria for 1,2,3,4,6,7,8-HpCDD and OCDD.

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

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# **Sample Inventory Report**

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000329-01	PDI-100SC-J-06-07-190926	26-Sep-19 11:11	17-Feb-20 13:36	Amber Glass, 120 mL
2000329-02	PDI-100SC-J-07-08-190926	26-Sep-19 11:11	17-Feb-20 13:36	Amber Glass, 120 mL
2000329-03	PDI-100SC-J-08-09-190926	26-Sep-19 11:11	17-Feb-20 13:36	Amber Glass, 120 mL
2000329-04	PDI-100SC-J-09-10-190926	DUP26-Sep-19 11:11	17-Feb-20 13:36	Amber Glass, 120 mL
2000329-05	PDI-100SC-J-10-11-190926	26-Sep-19 11:11	17-Feb-20 13:36	Amber Glass, 120 mL

## ANALYTICAL RESULTS

Sample ID: Method	l Blank							EPA Me	ethod 1613E
Matrix: Solid Sample Size: 10.0		QC Batch: Date Extracted	B0B0195 21-Feb-2020 12:54			ab Sample: B0B0195-BLK1 ate Analyzed : 25-Feb-20 16:10	6 Column: ZB-5M	S	
Analyte Conc.	(pg/g )	DL	ЕМРС	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0301			IS	13C-2,3,7,8-TCDD	95.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0453				13C-1,2,3,7,8-PeCDD	93.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0664				13C-1,2,3,4,7,8-HxCDD	82.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0682				13C-1,2,3,6,7,8-HxCDD	88.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0797				13C-1,2,3,7,8,9-HxCDD	83.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.122				13C-1,2,3,4,6,7,8-HpCDD	85.9	23 - 140	
OCDD	0.667			J		13C-OCDD	84.3	17 - 157	
2,3,7,8-TCDF	ND	0.0535				13C-2,3,7,8-TCDF	96.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0497				13C-1,2,3,7,8-PeCDF	87.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0456				13C-2,3,4,7,8-PeCDF	88.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0617				13C-1,2,3,4,7,8-HxCDF	89.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0585				13C-1,2,3,6,7,8-HxCDF	89.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0622				13C-2,3,4,6,7,8-HxCDF	92.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0940				13C-1,2,3,7,8,9-HxCDF	88.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.453			J		13C-1,2,3,4,6,7,8-HpCDF	93.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.123				13C-1,2,3,4,7,8,9-HpCDF	92.6	26 - 138	
OCDF	0.312			J		13C-OCDF	84.7	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	90.5	35 - 197	
						Toxic Equivalent Quotient (T	EQ) Data (pg/g dr	y wt)	
						TEQMinWHO2005Dioxin	0.00482		
TOTALS									
Total TCDD	ND	0.0301							
Total PeCDD	ND		0.0950						
Total HxCDD	ND	0.0797							
Total HpCDD	ND		0.192						
Total TCDF	ND	0.0535							
Total PeCDF	0.329								
Total HxCDF	ND	0.0940							
Total HpCDF	0.453					I - Lower control limit - upper control lin			

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: OPR								EPA Method 1613B
Matrix:SolidSample Size:10.0 g			B0B0195 21-Feb-2020	) 12:54		Lab Sample:B0B0195-BS1Date Analyzed:25-Feb-20 13:54	Column: ZB-5MS	
Analyte	Amt Found (pg/g )	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	18.5	20.0	92.3	67 - 158	IS	13C-2,3,7,8-TCDD	98.9	20 - 175
1,2,3,7,8-PeCDD	90.8	100	90.8	70 - 142		13C-1,2,3,7,8-PeCDD	101	21 - 227
1,2,3,4,7,8-HxCDD	97.3	100	97.3	70 - 164		13C-1,2,3,4,7,8-HxCDD	92.1	21 - 193
1,2,3,6,7,8-HxCDD	105	100	105	76 - 134		13C-1,2,3,6,7,8-HxCDD	92.9	25 - 163
1,2,3,7,8,9-HxCDD	106	100	106	64 - 162		13C-1,2,3,7,8,9-HxCDD	89.5	21 - 193
1,2,3,4,6,7,8-HpCDD	98.1	100	98.1	70 - 140		13C-1,2,3,4,6,7,8-HpCDD	93.1	26 - 166
OCDD	198	200	99.1	78 - 144		13C-OCDD	89.5	13 - 199
2,3,7,8-TCDF	21.3	20.0	107	75 - 158		13C-2,3,7,8-TCDF	99.1	22 - 152
1,2,3,7,8-PeCDF	99.2	100	99.2	80 - 134		13C-1,2,3,7,8-PeCDF	92.5	21 - 192
2,3,4,7,8-PeCDF	99.4	100	99.4	68 - 160		13C-2,3,4,7,8-PeCDF	94.0	13 - 328
1,2,3,4,7,8-HxCDF	111	100	111	72 - 134		13C-1,2,3,4,7,8-HxCDF	96.3	19 - 202
1,2,3,6,7,8-HxCDF	118	100	118	84 - 130		13C-1,2,3,6,7,8-HxCDF	98.0	21 - 159
2,3,4,6,7,8-HxCDF	115	100	115	70 - 156		13C-2,3,4,6,7,8-HxCDF	98.4	22 - 176
1,2,3,7,8,9-HxCDF	110	100	110	78 - 130		13C-1,2,3,7,8,9-HxCDF	99.1	17 - 205
1,2,3,4,6,7,8-HpCDF	112	100	112	82 - 122		13C-1,2,3,4,6,7,8-HpCDF	102	21 - 158
1,2,3,4,7,8,9-HpCDF	114	100	114	78 - 138		13C-1,2,3,4,7,8,9-HpCDF	101	20 - 186
OCDF	224	200	112	63 - 170		13C-OCDF	92.5	13 - 199
					CRS	37Cl-2,3,7,8-TCDD	93.9	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-10	0SC-J-06-07-190926						EPA Me	thod 1613B
	or QEA, LLC o PDI 000029-02.59 op-2019 11:11	Sample DataMatrix:SedimentSample Size:14.4 g% Solids:69.7		La QC	boratory Data b Sample: 2000329-01 C Batch: B0B0195 tte Analyzed : 25-Feb-20 17:5	Date Rece Date Extra 0 Column: ZB	cted: 21-Feb-2020	
Analyte Conc.	(pg/g )	DL EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0504		IS	13C-2,3,7,8-TCDD	97.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0548			13C-1,2,3,7,8-PeCDD	97.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0759			13C-1,2,3,4,7,8-HxCDD	85.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0756			13C-1,2,3,6,7,8-HxCDD	89.2	28 - 130	
1,2,3,7,8,9-HxCDD	0.115		J		13C-1,2,3,7,8,9-HxCDD	88.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.832		J		13C-1,2,3,4,6,7,8-HpCDD	96.8	23 - 140	
OCDD	7.94		В		13C-OCDD	99.3	17 - 157	
2,3,7,8-TCDF	ND	0.0392			13C-2,3,7,8-TCDF	95.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0341			13C-1,2,3,7,8-PeCDF	86.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0327			13C-2,3,4,7,8-PeCDF	86.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0584			13C-1,2,3,4,7,8-HxCDF	90.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0409			13C-1,2,3,6,7,8-HxCDF	90.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0442			13C-2,3,4,6,7,8-HxCDF	93.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.0539		J		13C-1,2,3,7,8,9-HxCDF	92.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.144			13C-1,2,3,4,6,7,8-HpCDF	97.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.104			13C-1,2,3,4,7,8,9-HpCDF	106	26 - 138	
OCDF	0.145		J, B		13C-OCDF	99.6	17 - 157	
				CRS	37Cl-2,3,7,8-TCDD	90.9	35 - 197	
					Toxic Equivalent Quotient (TE	EQ) Data (pg/g	dry wt)	
					TEQMinWHO2005Dioxin	0.0276		
TOTALS								
Total TCDD	0.126							
Total PeCDD	0.103	0.138						
Total HxCDD	1.15							
Total HpCDD	2.25							
Total TCDF	ND	0.0392						
Total PeCDF	ND	0.0341						
Total HxCDF	0.0778	0.136						
Total HpCDF	ND	0.144						

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-10	0SC-J-07-08-190926						EPA Me	thod 1613B
Project: Gasco	or QEA, LLC o PDI 000029-02.59 op-2019 11:11	Sample DataMatrix:SedimentSample Size:14.3 g% Solids:70.6		Lat QC	boratory Data           o Sample:         2000329-02           c Batch:         B0B0195           te Analyzed :         25-Feb-20 18:3	Date Recei <sup>,</sup> Date Extrac 8 Column: ZB-	cted: 21-Feb-2020	
Analyte Conc.	. (pg/g )	DL EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0440		IS	13C-2,3,7,8-TCDD	94.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0463			13C-1,2,3,7,8-PeCDD	94.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0606			13C-1,2,3,4,7,8-HxCDD	85.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0627			13C-1,2,3,6,7,8-HxCDD	90.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0710			13C-1,2,3,7,8,9-HxCDD	88.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.570		J		13C-1,2,3,4,6,7,8-HpCDD	100	23 - 140	
OCDD	3.96		J, B		13C-OCDD	93.8	17 - 157	
2,3,7,8-TCDF	ND	0.0326			13C-2,3,7,8-TCDF	94.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0289			13C-1,2,3,7,8-PeCDF	85.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0277			13C-2,3,4,7,8-PeCDF	86.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0456			13C-1,2,3,4,7,8-HxCDF	88.9	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0444			13C-1,2,3,6,7,8-HxCDF	88.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0487			13C-2,3,4,6,7,8-HxCDF	91.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0665			13C-1,2,3,7,8,9-HxCDF	92.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0817			13C-1,2,3,4,6,7,8-HpCDF	98.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0957			13C-1,2,3,4,7,8,9-HpCDF	105	26 - 138	
OCDF	0.135		J, B		13C-OCDF	95.2	17 - 157	
				CRS	37Cl-2,3,7,8-TCDD	88.7	35 - 197	
					Toxic Equivalent Quotient (TE	Q) Data (pg/g d	lry wt)	
					TEQMinWHO2005Dioxin	0.00693		
TOTALS								
Total TCDD	0.120							
Total PeCDD	0.0768	0.128						
Total HxCDD	0.642							
Total HpCDD	1.45							
Total TCDF	ND	0.0326						
Total PeCDF	ND	0.0289						
Total HxCDF	ND	0.0665						
Total HpCDF	ND	0.0957						

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-100	0SC-J-08-09-190926							EPA Me	thod 1613B
	or QEA, LLC 9 PDI 000029-02.59 p-2019 11:11	Sample I Matrix: Sample % Solic	Sediment Size: 12.9 g		La QC	boratory Data           b Sample:         2000329-03           C Batch:         B0B0195           ite Analyzed :         25-Feb-20 19:2	Date Rece Date Extra 5 Column: ZB	cted: 21-Feb-2020	
Analyte Conc.	(pg/g )	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0880		IS	13C-2,3,7,8-TCDD	92.4	25 - 164	
1,2,3,7,8-PeCDD	0.0664			J		13C-1,2,3,7,8-PeCDD	92.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND		0.0539			13C-1,2,3,4,7,8-HxCDD	83.2	32 - 141	
1,2,3,6,7,8-HxCDD	0.0776			J		13C-1,2,3,6,7,8-HxCDD	83.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.151			J		13C-1,2,3,7,8,9-HxCDD	82.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.26			J		13C-1,2,3,4,6,7,8-HpCDD	94.1	23 - 140	
OCDD	17.4			В		13C-OCDD	89.3	17 - 157	
2,3,7,8-TCDF	ND	0.0310				13C-2,3,7,8-TCDF	90.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0272				13C-1,2,3,7,8-PeCDF	84.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0254				13C-2,3,4,7,8-PeCDF	84.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0423				13C-1,2,3,4,7,8-HxCDF	84.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0407				13C-1,2,3,6,7,8-HxCDF	84.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0419				13C-2,3,4,6,7,8-HxCDF	89.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.0647			J		13C-1,2,3,7,8,9-HxCDF	88.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0529				13C-1,2,3,4,6,7,8-HpCDF	92.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0627				13C-1,2,3,4,7,8,9-HpCDF	100	26 - 138	
OCDF	ND	0.0602				13C-OCDF	92.8	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	89.6	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g	dry wt)	
						TEQMinWHO2005Dioxin	0.114		
TOTALS									
Total TCDD	0.177		0.314						
Total PeCDD	0.251		0.409						
Total HxCDD	1.53		1.59						
Total HpCDD	3.43								
Total TCDF	ND	0.0310							
Total PeCDF	ND	0.0272							
Total HxCDF	0.103								
Total HpCDF	ND	0.0627							

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-10	0SC-J-09-10-190926							EPA Me	thod 1613B
Project: Gasco	or QEA, LLC o PDI 000029-02.59 p-2019 11:11	Sample Matrix Samp % Sol	x: Sediment le Size: 14.6 g		Lat QC	boratory Data           o Sample:         2000329-04           c Batch:         B0B0195           te Analyzed :         25-Feb-20 20:1	Date Rece Date Extra 3 Column: ZB	cted: 21-Feb-2020	
Analyte Conc.	(pg/g )	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0393			IS	13C-2,3,7,8-TCDD	94.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0483				13C-1,2,3,7,8-PeCDD	92.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0465				13C-1,2,3,4,7,8-HxCDD	82.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0490				13C-1,2,3,6,7,8-HxCDD	85.4	28 - 130	
1,2,3,7,8,9-HxCDD	0.0787			J		13C-1,2,3,7,8,9-HxCDD	85.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.845			J		13C-1,2,3,4,6,7,8-HpCDD	94.9	23 - 140	
OCDD	7.38			В		13C-OCDD	87.3	17 - 157	
2,3,7,8-TCDF	ND	0.0307				13C-2,3,7,8-TCDF	93.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0268				13C-1,2,3,7,8-PeCDF	84.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0255				13C-2,3,4,7,8-PeCDF	86.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0379				13C-1,2,3,4,7,8-HxCDF	87.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0381				13C-1,2,3,6,7,8-HxCDF	85.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0389				13C-2,3,4,6,7,8-HxCDF	90.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0375			13C-1,2,3,7,8,9-HxCDF	90.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0563				13C-1,2,3,4,6,7,8-HpCDF	94.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0647				13C-1,2,3,4,7,8,9-HpCDF	104	26 - 138	
OCDF	ND		0.109			13C-OCDF	91.2	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	91.7	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g	dry wt)	
						TEQMinWHO2005Dioxin	0.0185		
TOTALS									
Total TCDD	0.124								
Total PeCDD	ND	0.0483							
Total HxCDD	0.812		1.05						
Total HpCDD	2.36								
Total TCDF	ND	0.0307							
Total PeCDF	ND	0.0268							
Total HxCDF	ND		0.0666						
Total HpCDF	ND	0.0647							

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	nod 1613B
Source Client ID: Source LabNumber: Matrix: Sample Size:	PDI-100SC-J-09-10-190926 2000329-04 Solid 14.5 g		QC Batch: Date Extracted:	B0B0195 21-Feb-2020 12:54	Lab Sar Date Ar	nple: B0B0195-DUP1 nalyzed: 25-Feb-20 21:00 Colu	mn: ZB-5MS		
Analyte	Conc. (pg/g )	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0415			IS	13C-2,3,7,8-TCDD	96.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0533				13C-1,2,3,7,8-PeCDD	93.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0484				13C-1,2,3,4,7,8-HxCDD	84.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0495				13C-1,2,3,6,7,8-HxCDD	85.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0561				13C-1,2,3,7,8,9-HxCDD	85.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.515			J		13C-1,2,3,4,6,7,8-HpCDD	93.4	23 - 140	
OCDD	5.52			В		13C-OCDD	83.8	17 - 157	
2,3,7,8-TCDF	ND	0.0345				13C-2,3,7,8-TCDF	92.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0297				13C-1,2,3,7,8-PeCDF	83.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0288				13C-2,3,4,7,8-PeCDF	85.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0325				13C-1,2,3,4,7,8-HxCDF	87.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0317				13C-1,2,3,6,7,8-HxCDF	87.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0333				13C-2,3,4,6,7,8-HxCDF	89.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.0609			J		13C-1,2,3,7,8,9-HxCDF	94.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0576				13C-1,2,3,4,6,7,8-HpCDF	92.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0691				13C-1,2,3,4,7,8,9-HpCDF	97.7	26 - 138	
OCDF	ND		0.0704			13C-OCDF	86.0	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	94.5	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g dr		
						TEQMinWHO2005Dioxin	0.0129		
TOTALS									
Total TCDD	0.106								
Total PeCDD	ND		0.0968						
Total HxCDD	0.787								
Total HpCDD	1.47								
Total TCDF	ND	0.0345							
Total PeCDF	ND	0.0297							
Total HxCDF	0.0918								
Total HpCDF	ND	0.0691							

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

Sample ID: Du	plicate							EPA Me	thod 1613B
Source Client ID: Source LabNumber: Matrix:	PDI-100SC-J-09-10-190926 2000329-04 Solid				Duplica	te Lab Sample: B0B0195-1	DUP1		
Analyte	Dup Conc. (pg/g )	Source Conc.	RPD	<b>RPD</b> Limits		Labeled Standard	Dup %R	Source %R	LCL-UCL
2,3,7,8-TCDD	ND	ND	NA	25	IS	13C-2,3,7,8-TCDD	96.4	94.5	25 - 164
1,2,3,7,8-PeCDD	ND	ND	NA	25		13C-1,2,3,7,8-PeCDD	93.3	92.4	25 - 181
1,2,3,4,7,8-HxCDD	ND	ND	NA	25		13C-1,2,3,4,7,8-HxCDD	84.5	82.1	32 - 141
1,2,3,6,7,8-HxCDD	ND	ND	NA	25		13C-1,2,3,6,7,8-HxCDD	85.3	85.4	28 - 130
1,2,3,7,8,9-HxCDD	ND	0.0787	#	25		13C-1,2,3,7,8,9-HxCDD	85.3	85.8	32 - 141
1,2,3,4,6,7,8-HpCDD	0.515	0.845	48.5	25		13C-1,2,3,4,6,7,8-HpCDD	93.4	94.9	23 - 140
OCDD	5.52	7.38	28.8	25		13C-OCDD	83.8	87.3	17 - 157
2,3,7,8-TCDF	ND	ND	NA	25		13C-2,3,7,8-TCDF	92.4	93.4	24 - 169
1,2,3,7,8-PeCDF	ND	ND	NA	25		13C-1,2,3,7,8-PeCDF	83.3	84.7	24 - 185
2,3,4,7,8-PeCDF	ND	ND	NA	25		13C-2,3,4,7,8-PeCDF	85.9	86.3	21 - 178
1,2,3,4,7,8-HxCDF	ND	ND	NA	25		13C-1,2,3,4,7,8-HxCDF	87.2	87.1	26 - 152
1,2,3,6,7,8-HxCDF	ND	ND	NA	25		13C-1,2,3,6,7,8-HxCDF	87.8	85.4	26 - 123
2,3,4,6,7,8-HxCDF	ND	ND	NA	25		13C-2,3,4,6,7,8-HxCDF	89.0	90.5	28 - 136
1,2,3,7,8,9-HxCDF	0.0609	ND	#	25		13C-1,2,3,7,8,9-HxCDF	94.8	90.4	29 - 147
1,2,3,4,6,7,8-HpCDF	ND	ND	NA	25		13C-1,2,3,4,6,7,8-HpCDF	92.8	94.7	28 - 143
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25		13C-1,2,3,4,7,8,9-HpCDF	97.7	104	26 - 138
OCDF	ND	ND	NA	25		13C-OCDF	86.0	91.2	17 - 157
					CRS	37Cl-2,3,7,8-TCDD	94.5	91.7	35 - 197

LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight.

The sample size is reported in wet weight.Results

reported to the MDL

Sample ID: PDI-10	00SC-J-10-11-190926							EPA Me	thod 1613B
Project: Gase	nor QEA, LLC o PDI 000029-02.59 ep-2019 11:11	Sample Matrix Sampl % Soli	: Sediment e Size: 12.0 g		Lat QC	boratory Data           o Sample:         2000329-05           c Batch:         B0B0195           te Analyzed :         25-Feb-20 21:4	Date Recei Date Extra 8 Column: ZB-	cted: 21-Feb-2020	
Analyte Conc.	. (pg/g )	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0471			IS	13C-2,3,7,8-TCDD	92.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0378				13C-1,2,3,7,8-PeCDD	93.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0488				13C-1,2,3,4,7,8-HxCDD	85.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0518				13C-1,2,3,6,7,8-HxCDD	84.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0579				13C-1,2,3,7,8,9-HxCDD	83.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.299			J		13C-1,2,3,4,6,7,8-HpCDD	93.0	23 - 140	
OCDD	2.48			J, B		13C-OCDD	91.7	17 - 157	
2,3,7,8-TCDF	ND	0.0343				13C-2,3,7,8-TCDF	94.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0305				13C-1,2,3,7,8-PeCDF	86.8	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0275				13C-2,3,4,7,8-PeCDF	88.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0342				13C-1,2,3,4,7,8-HxCDF	86.6	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0338				13C-1,2,3,6,7,8-HxCDF	86.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0338				13C-2,3,4,6,7,8-HxCDF	90.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0471			13C-1,2,3,7,8,9-HxCDF	88.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0562				13C-1,2,3,4,6,7,8-HpCDF	94.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0626				13C-1,2,3,4,7,8,9-HpCDF	103	26 - 138	
OCDF	ND	0.0709				13C-OCDF	94.8	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	92.3	35 - 197	
						Toxic Equivalent Quotient (TE	Q) Data (pg/g	dry wt)	
						TEQMinWHO2005Dioxin	0.00373		
TOTALS									
Total TCDD	0.124								
Total PeCDD	ND		0.0417						
Total HxCDD	0.267		0.337						
Total HpCDD	0.807								
Total TCDF	ND	0.0343							
Total PeCDF	ND	0.0305							
Total HxCDF	ND		0.0758						
Total HpCDF	ND timated detection limit	0.0626							

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	y Record & Laborator	y Analysis Rec	quest

Chain of Custody Record & I	Laboratory Analysis Reques	t																	2000329 3.1°C		
Laboratory Number:	<u></u>	-							Tes	t Pa	ram	nete	rs								
Date: 02.14.202 Project Name: Gasco PD Project Number: 000029-0 Project Manager: Delaney F Phone Number: 360.715.2	2.59 Peterson		SIS	513B)	2540G)														VE ANCHOR OEA		
Shipment Method: FedEx			Containers	1) s	SM S																
Samplers: dep	Collection Date/Time	Matrix	J.	Dioxin/furans (1613B)	Total solids (SM 2540G)														Comments/Preservation		
1 PDI-100SC-J-06-07-1909			1	X	X																
2 PDI-100SC-J-07-08-1909			1		Х																
3 PDI-100SC-J-08-09-1909			1		X																
4 PDI-100SC-J-09-10-1909			1		X									_	_		_		Please analyze lab duplicate		
5 PDI-100SC-J-10-11-1909	9/26/2019 11:17	1 SE	1	X	X	+				-			+	+-	+	┢		-			
6			-	$\left  \right $	+		+	+	-	$\rightarrow$		$\vdash$	+	+	╀		┝	┝			
8				$\square$	+	+						$\vdash$	+	+	+	┼	+				
9		+		+	+	┿	$\square$					$\vdash$	+	+	+	+	$\vdash$	$\vdash$			
10					4	+		_					+		+	1					
11											_										
12															+						
13																					
14				$ \square$	_	$\perp$				$ \downarrow$			$\perp$	_	_						
15																					
5-day TAT																		_			
Relinquished By: Modu Ra Signature/Printed Name	duma- OUR			02	-	Ancho 4 Da		02	õ		Ha	ived B	nl	r <b>a n</b>	<b>M</b>				Company: <u>//AL</u> HOG 0Z/17/2 DZ/17/2020 <del>-9</del> Date/Time	•z• <del>07</del> H00	3:36 02/17/2020
Relinquished By:			(	Compa	iny:	De	te/Tim	10				ived B		d No.	me				Company: Date/Time		



## Sample Log-In Checklist

Page # \_\_\_\_\_ of \_\_\_\_

Samples	Date/Tim	ne		Ir	nitials:		Location: WR-Z		
Arrival:	OZ/17/2	2020	(3:36		100		S	helf/Rack: <u>NA</u>	
Delivered By:	FedEX	UPS	On Ti	ac	GLS	DHI	_	Hand Delivered	Other
Preservation:	(10	)	E	lue	ue Ice			Dry Ice	None
Temp °C: 3.1	(uncor	rected)	Decks						TOA
Temp °C: 7.1	(correc	ted)	Probe us	sed	ed: Y /N			hermometer ID:	<u>+ K - 4</u>

	生物 首 短 1				a la compañía de la c		YES	NO	NA
Shipping Contain	J								
Shipping Custody			5						
Airbill 🛶	J.								
Shipping Docume	entation Pres	ent?	~				Ĵ		
Shipping Contain	er	Vista	Client	Re	etain	Re	etury	Disp	ose
Chain of Custody	/ Sample Do	ocumentation Pr	esent?						
Chain of Custody	/ Sample Do	ocumentation Co	omplete?		_		$\checkmark$		
Holding Time Acc	ceptable?						$\checkmark$		
	Date/Time	0706	Initials:		Locat	ion:	WK-2	-	
Logged In:	: <u>D</u> -	1							
COC Anomaly/Sa		$\checkmark$	~						

Comments:

# CoC/Label Reconciliation Report WO# 2000329

LabNumber CoC Sample ID			Sar	nplcAlias		Sample Date/Time		Container	BaseMatrix	Sample Comments
2000329-01 A PDI-100SC-J-06-07-190926	đ		81.5	李昌		26-Sep-19 11:11	Ø	Amber Glass, 120 mL	Solid	
2000329-02 A PDI-100SC-J-07-08-190926	$\Box$					26-Sep-19 11:11	Í	Amber Glass, 120 mL	Solid	
2000329-03 A PDI-100SC-J-08-09-190926					101/352	26-Sep-19 11:11	Ø	Amber Glass, 120 mL	Solid	
2000329-04 A PDI-100SC-J-09-10-190926	₫ (International States)					26-Scp-19 11:11	M	Amber Glass, 120 mL	Solid	DUP
2000329-05 A PDI-100SC-J-10-11-190926	Ø					26-Sep-19 11:11	Ø	Amber Glass, 120 mL	Solid	1
Checkmarks indicate that information on the Co Any discrepancies are noted in the following co		bel.								
		Yes	No	NA	Comments:					
Sample Container Intact?		$\checkmark$								
Sample Custody Seals Intact?				7						
Adequate Sample Volume?										
Container Type Appropriate for Analysis(es)		$\checkmark$	ć							
Preservation Documented: Na2S2O3 Trizm	a None Other									
If Chlorinated or Drinking Water Samples, Ad	cceptable Preservation?			1						
Verifed by/Date: KS 02/18/20				-	-					

## **EXTRACTION INFORMATION**

**Process Sheet** Workorder: 2000329

Prep Expiration: 2020-09-25 Client: Anchor QEA, LLC

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

RX ASAP Dozlulzo

Workorder Due: 24-Feb-20 00:00

TAT: 7

BOBDIAS Prep Batch:

Prep Data Entered:

AZ 02/25/20 Date and Initials

		Initial	Sequence: Sobooloo	
LabSampleID	Recon ClientSampleID	Date Received	Location Comments	
2000329-01 A	PDI-100SC-J-06-07-190926	17-Feb-20 13:36	WR-2 D-7	
2000329-02	PDI-100SC-J-07-08-190926	17-Feb-20 13:36	WR-2 D-7	-
2000329-03	PDI-100SC-J-08-09-190926	17-Feb-20 13:36	WR-2 D-7	
2000329-04	PDI-100SC-J-09-10-190926	17-Feb-20 13:36	WR-2 D-7 DUP	
2000329-05	PDI-100SC-J-10-11-190926	17-Feb-20 13:36	WR-2 D-7	

wirection (dr	in, 6 Ohlerdune, Dieldzin <sub>er</sub>
eigne	
Prep Check Out: RR 02-21-20	Prep Reconciled Initals/Date: RR 02 - 21-20
Prep Check In: RR 02-21-20	Spike Reconciled Initals/Date: 20102/21/20
Deve 4 of 4	VialBoxID: Maytem
	Prep Check Out: RR 02-21-20

Page 1 of 1

Work Order 2000329

### **PREPARATION BENCH SHEET**

Matrix: Solid

.

## B0B0195



Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 21-Feb-20 12:54

	VISTA	G	Sample	IS/NS		CRS	AP	ABSG	AA	Florisil	RS
C	Sample 1D	Eqv	Amt. (g)	CHEM/WI DATE	Т	CHEM/WIT DATE	CHEM/ DATE	CHEM/ DATE	CHEM/ DATE	CHEM/ DATE	CHEM/WIT DATE
	B0B0195-BLK1	NA	(10.00)	A RIZ 021	21/20	Az 02/240	NA	AZ 02/24/20	AZ OZ/20/20	AZ 02/24/20	00 RR02/25,
	B0B0195-BS1	NA	(10,00)			-	T	T	T	T	T
	B0B0195-DUP1 2000329-04RE1	14.36	14.48								
	2000301-01RE1	17.3b	17.60					yellow			
	2000329-01RE1	14.36	14.43								
	2000329-02RE1	14,17	14.26								
	2000329-03RE1	12.86	12.94								
	2000329-04RE1	14,36	14.55								
	2000329-05RE1	11.81	11.99	1	P	۲-	J	J	T	4	V

A Built ABSG/AA COLUMNS RR 02/24/20

-	()	(15)			
IS Name Vb NS Name	(V3) CRS Name V3	RS Name	Cycle Time	APP: SEFUN SOX SDS	Check Out: Chemist/Date: RR 02-21-20
PCDD/F192301, TOUL PCDD/F18F19	13,1001 PCDD/F 1971602,1046	PCDD/F/971603, 10,44		SOLV: Toluene	
PCB PCB	PCB	PCB	1427	Other NA	Check In: Chemist/Date; RR 02-21-20
РАН РАН	PAH	PAH	Stop Date/Time	Final Volume(s) C. 4	Balance ID: HPMS - 9
			02-22-20	ZUML	

#### 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 2000329

5 = Sample homogenized in secondary container

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

# Batch: B0B0195

# Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000301-01RE1	17.6 🧹	57.60112	10.1378	20	21-Feb-20 12:54	MSD	F		Sediment	1613 Full List
2000329-01RE1	14.43 🗸	69,65889	10.0518	20	21-Feb-20 12:54	MSD			Sediment	1613 Full List
2000329-02RE1	14.26 🧹	70.57654	10.0642	20	21-Feb-20 12:54	MSD			Sediment	1613 Full List
2000329-03RE1	12.94 🗸	77.7328	10.0586	20	21-Feb-20 12:54	MSD			Sediment	1613 Full List
2000329-04RE1	14.55 🗸	69.62963	10.1311	20	21-Feb-20 12:54	MSD			Sediment	1613 Full List
2000329-05RE1	11.99 🏑	84.70875	10.1566	20	21-Feb-20 12:54	MSD			Sediment	1613 Full List
B0B0195-BLK1	10 🗸			20	21-Feb-20 12:54	MSD				QC
B0B0195-BS1	10			20	21-Feb-20 12:54	MSD	18F1913	V 10 V		QC
B0B0195-DUP1	14.48 🗸	69.62963	10.0824	20	21-Feb-20 12:54	MSD	e e	<u> </u>		QC

All bolded data on report verified against written benchsheet by (initial/date) A2 02/25/20

Printed: 2/25/2020 11:25:34AM Page 1 of 1

Work Order 2000329

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## SAMPLE DATA – EPA METHOD 1613

Quantify Sam Vista Analytica	nple Summary Report al Laboratory	MassLynx MassLynx V4.1 SCN 945			Page 1 of 2
Dataset:	U:\VG12.PRO\Results\20	0225R3\200225R3-5.qld			
Last Altered: Printed:		09:00:38 Pacific Standard Time 09:01:04 Pacific Standard Time	ly	02-28-2020	anos/20/wzv

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

## Name: 200225R3\_5, Date: 25-Feb-2020, Time: 16:16:03, ID: B0B0195-BLK1 Method Blank 10, Description: Method Blank

del ant	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD						1							0.0701	
2	2 1,2,3,7,8-PeCDD				0.972	10.000	<b>J</b> 30.83		1.00		NO			0.0453	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.000	34.20		1.00		NO			0.0664	
4	4 1,2,3,6,7,8-HxCDD				0.921	10.000	34.28		1.00		NO			0.0682	
5	5 1,2,3,7,8,9-HxCDD				0.918	10.000	34.60		1.00		NO			0.0797	
6	6 1,2,3,4,6,7,8-HpCDD				0.923	10.000	38.07		1.00		NO			0.122	
7	7 OCDD	3297.321	0.904	NO	0.975	10.000	41.18	41.20	1.00	1.00	NO	0.6670		0.140	0.6670
8	8 2,3,7,8-TCDF				0.802	10.000	24.80		1.00		NO			0.0535	
9	9 1,2,3,7,8-PeCDF				0.907	10.000	29.53		1.00		NO			0.0497	
10	10 2,3,4,7,8-PeCDF				0.952	10.000	30.53		1.00		NO			0.0456	
11	11 1,2,3,4,7,8-HxCDF				0.862	10.000	33.33		1.00		NO			0.0617	
12	12 1,2,3,6,7,8-HxCDF				0.841	10.000	33.45		1.00		NO			0.0585	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.000	34.05		1.00		NO			0.0622	
14	14 1,2,3,7,8,9-HxCDF				0.858	10.000	34.90		1.00		NO			0.0940	
15	15 1,2,3,4,6,7,8-HpCDF	2362.611	0.991	NO	0.851	10.000	36.68	36.67	1.00	1.00	NO	0.4529		0.0998	0.4529
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.000	38.72		1.00		NO			0.123	
17	17 OCDF	1428.920	0.889	NO	0.806	10.000	41.36	41.36	1.00	1.00	NO	0.3117		0.119	0.3117
18	18 13C-2,3,7,8-TCDD	2204483.5	0.779	NO	1.20	10.000	25.69	25.72	1.03	1.03	NO	191.0	95.5	0.151	
19	19 13C-1,2,3,7,8-PeCDD	1736773.0	0.639	NO	0.967	10.000	30.43	30.80	1.22	1.23	NO	186.6	93.3	0.155	
20	20 13C-1,2,3,4,7,8-HxCDD	1227880.8	1.263	NO	0.874	10.000	34.19	34.19	1.01	1.01	NO	165.0	82.5	0.390	
21	21 13C-1,2,3,6,7,8-HxCDD	1570317.7	1.263	NO	1.05	10.000	34.29	34.28	1.02	1.02	NO	176.3	88.2	0.326	
22	22 13C-1,2,3,7,8,9-HxCDD	1381589.0	1.254	NO	0.974	10.000	34.60	34.56	1.03	1.02	NO	166.5	83.2	0.350	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1092955.1	1.042	NO	0.747	10.000	38.17	38.06	1.13	1.13	NO	171.7	85.9	0.430	1
24	24 13C-OCDD	2028887.8	0.885	NO	0.707	10.000	41.07	41.18	1.22	1.22	NO	337.2	84.3	0.402	
25	25 13C-2,3,7,8-TCDF	2804485.6	0.768	NO	1.07	10.000	24.87	24.78	0.99	0.99	NO	193.8	96.9	0.214	
26	26 13C-1,2,3,7,8-PeCDF	2380766.8	1.572	NO	1.00	10.000	29.46	29.51	1.18	1.18	NO	175.0	87.5	0.351	
27	27 13C-2,3,4,7,8-PeCDF	2305741.1	1.581	NO	0.962	10.000	30.42	30.50	1.21	1.22	NO	176.5	88.3	0.365	
28	28 13C-1,2,3,4,7,8-HxCDF	1597668.5	0.508	NO	1.05	10.000	33.32	33.33	0.99	0.99	NO	178.8	89.4	0.416	
29	29 13C-1,2,3,6,7,8-HxCDF	1803740.7	0.514	NO	1.19	10.000	33.42	33.44	0.99	0.99	NO	178.0	89.0	0.367	
30	30 13C-2,3,4,6,7,8-HxCDF	1674449.4	0.528	NO	1.07	10.000	34.03	34.02	1.01	1.01	NO	184.4	92.2	0.409	
31	31 13C-1,2,3,7,8,9-HxCDF	1389492.0	0.514	NO	0.922	10.000	34.93	34.90	1.04	1.04	NO	176.9	88.4	0.473	

Quantify Sample Summary Report	MassLynx MassLynx V4.1 SCN 945
Vista Analytical Laboratory	

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200225R3\200225R3-5.qld

Last Altered:	Friday, February 28, 2020 09:00:38 Pacific Standard Time
Printed:	Friday, February 28, 2020 09:01:04 Pacific Standard Time

## Name: 200225R3\_5, Date: 25-Feb-2020, Time: 16:16:03, ID: B0B0195-BLK1 Method Blank 10, Description: Method Blank

1.1.1	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1225971.2	0.436	NO	0.767	10.000	36.69	36.64	1.09	1.09	NO	187.6	93.8	0.533	
33	33 13C-1,2,3,4,7,8,9-HpCDF	871178.876	0.433	NO	0.552	10.000	38.71	38.72	1.15	1.15	NO	185.2	92.6	0.740	
34	34 13C-OCDF	2276604.3	0.875	NO	0.789	10.000	41.31	41.36	1.23	1.23	NO	338.6	84.7	0.320	
35	35 37CI-2,3,7,8-TCDD	820379.438			1.18	10.000	25.72	25.74	1.03	1.03	NO	72.43	90.5	0.0426	
36	36 13C-1,2,3,4-TCDD	1925758.0	0.800	NO	1.00	10.000	25.11	25.05	1.00	1.00	NO	200.0	100	0.182	
37	37 13C-1,2,3,4-TCDF	2716734.8	0.788	NO	1.00	10.000	23.37	23.28	1.00	1.00	NO	200.0	100	0.228	
38	38 13C-1,2,3,4,6,9-HxCDF	1703281.1	0.520	NO	1.00	10.000	33.71	33.72	1.00	1.00	NO	200.0	100	0.436	
39	39 Total Tetra-Dioxins				0.988	10.000	24.62		0.00		NO			0.0301	
40	40 Total Penta-Dioxins				0.972	10.000	29.96		0.00		NO	0.0000		0.0187	0.09477
41	41 Total Hexa-Dioxins				0.921	10.000	33.63		0.00		NO			0.0333	
42	42 Total Hepta-Dioxins				0.923	10.000	37.64		0.00		NO	0.0000		0.0658	0.1917
43	43 Total Tetra-Furans				0.802	10.000	23.61		0.00		NO			0.0268	
44	44 1st Func. Penta-Furans				0.907	10.000	27.09		0.00		NO	0.1206		0.0236	0.1206
45	45 Total Penta-Furans				0.907	10.000	29.27		0.00		NO	0.2079		0.0488	0.2079
46	46 Total Hexa-Furans				0.898	10.000	33.56		0.00		NO			0.0290	
47	47 Total Hepta-Furans				0.851	10.000	37.83		0.00		NO	0.4529		0.117	0.4529

<b>Quantify Totals Report</b>	MassLynx MassLynx V4.1 SCN 945
Vista Analytical Laborator	ry

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-5.qld

Last Altered: Friday, February 28, 2020 09:00:38 Pacific Standard Time Printed: Friday, February 28, 2020 09:01:28 Pacific Standard Time

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200225R3\_5, Date: 25-Feb-2020, Time: 16:16:03, ID: B0B0195-BLK1 Method Blank 10, Description: Method Blank

### **Tetra-Dioxins**

22 3 3 4 5	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

### Penta-Dioxins

anyour	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.74e6	0.474	YES	29.96	28.55	0.0000	0.09477

## **Hexa-Dioxins**

# Name	e Area	a IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1								

### **Hepta-Dioxins**

6 1 3	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	0.00e0	1.09e6	1.437	YES	37.64	37.04	0.0000	0.1917

**Tetra-Furans** 

The second second	# Name	Area	IS Area	IRA	YIN	Pred.RT	RT	Conc.	EMPC
1									

### Penta-Furans function 1

1. 1	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura	1.28e3	0.00e0	1.354	NO	27.09	26.87	0.1206	0.1206

<b>Quantify Totals Report</b>	MassLynx MassLynx V4.1 SCN 945
Vista Analytical Laborato	ry

## Dataset: U:\VG12.PRO\Results\200225R3\200225R3-5.qld

Last Altered:Friday, February 28, 2020 09:00:38 Pacific Standard TimePrinted:Friday, February 28, 2020 09:01:28 Pacific Standard Time

Name: 200225R3\_5, Date: 25-Feb-2020, Time: 16:16:03, ID: B0B0195-BLK1 Method Blank 10, Description: Method Blank

## Penta-Furans

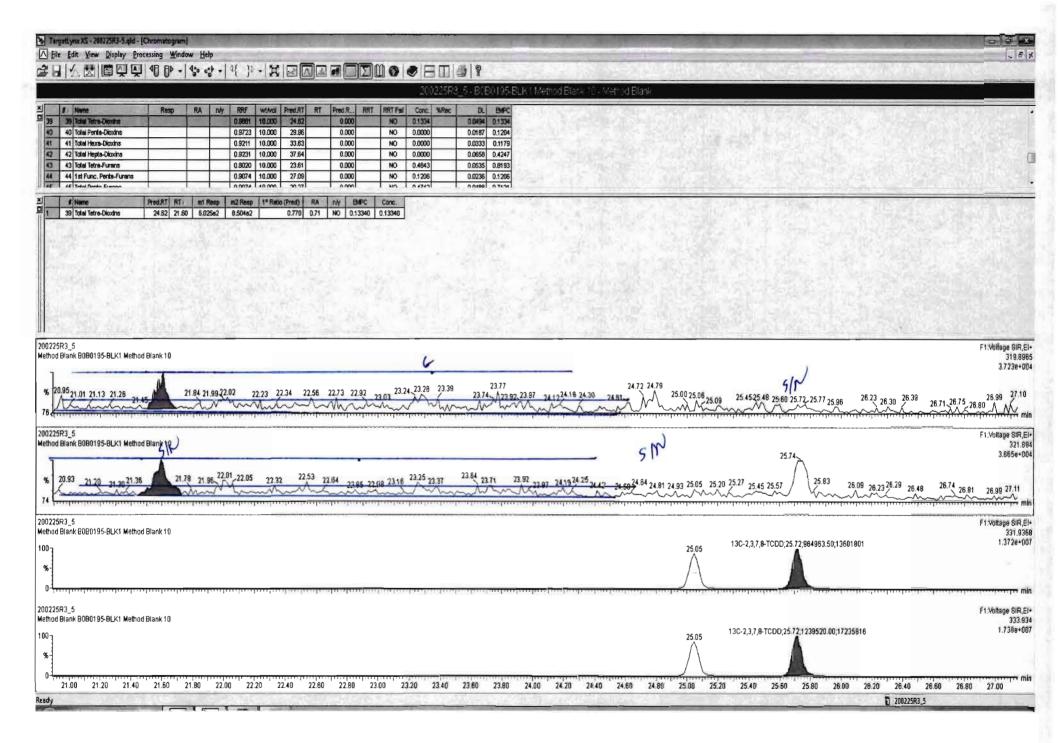
	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	2.21e3	0.00e0	1.380	NO	29.27	28.50	0.2079	0.2079

## Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1 5 1 1 1 -				10 A 10					

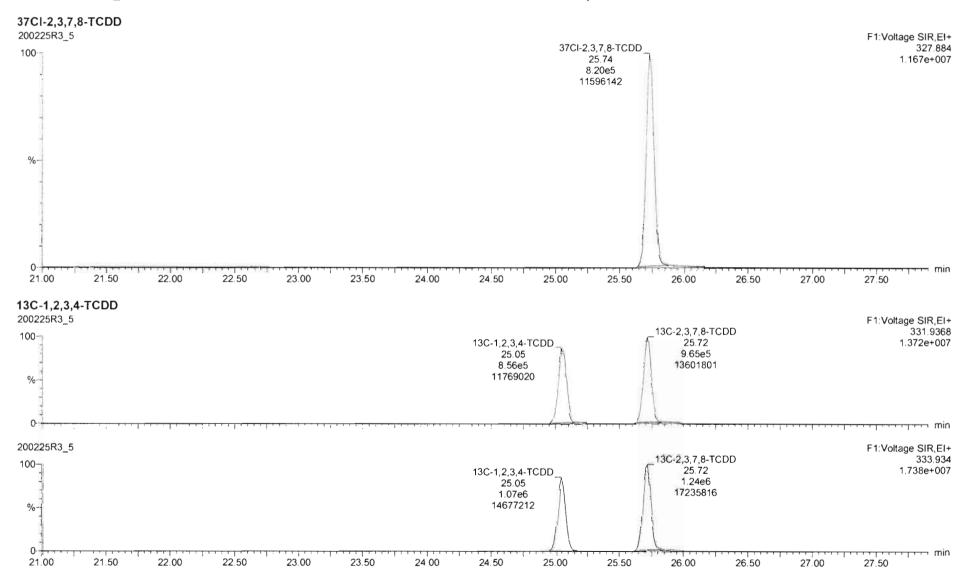
## Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	2.36e3	1.23e6	0.991	NO	36.68	36.67	0.4529	0.4529

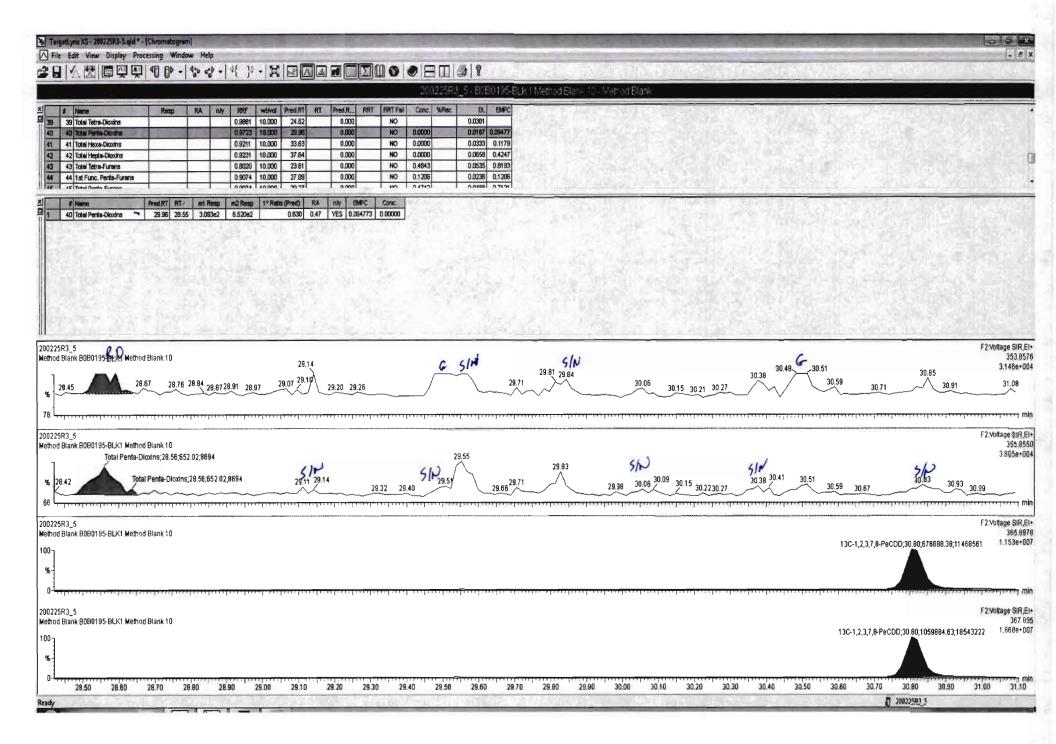


Quantify Sam Vista Analytica		Page 2 of 13
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:39:34 Pacific Standard Time Wednesday, February 26, 2020 08:39:36 Pacific Standard Time	

#### Name: 200225R3\_5, Date: 25-Feb-2020, Time: 16:16:03, ID: B0B0195-BLK1 Method Blank 10, Description: Method Blank



	nple Report Mass al Laboratory	sLynx 4.1 SCN815				Page 3 of 1
ataset:	Untitled					
ast Altered: rinted:		26, 2020 08:39:34 Pac 26, 2020 08:39:36 Pac				
ame: 20022 2,3,7,8-PeC 00225R3_5	5R3_5, Date: 25-Feb-20 DD Total Penta-Dioxins;28.55;2.	99e2;5336 28.76 29.14 29.14 29.14 29.14 29.14 29.14 29.14 29.14 29.14	: B0B0195-BLK1 Method G SN R02 Penta-Dioxins;29.55;3.59e2;8085 29.71 29.84	Blank 10, Description: Me	thod Blank 407 $100$ $100$ $30.85$ $31.08$ $31.22$	F2: Voltage SIR,E 353.85 31.34 3.547e+00
0-1	Total Penta-Dioxins;28.56;6 28.29		Penta-Dioxins;29.55;7.32e2;10836	6 siμ c(N 30.06.30.09 30.38 30.51	30.83 2.08e2 3038 30.93 (J) 31.20	F2:Voltage SIR,E 355.855 31.51 3.805e+00
%-						
%- - - - - - - - - - - - - - - - - - -	28.20 28.40 28.60	28.80 29.00 29.20	29.40 29.60 29.80		0.60 30.80 31.00 31.20	m 31.40 31.60 31.80
0	28.20 28.40 28.60	28.80 29.00 29.20			8-PeCDD 10 e5	F2:Voltage SIR,EI 31.40 31.60 31.80 F2:Voltage SIR,EI 365.897 1.153e+00



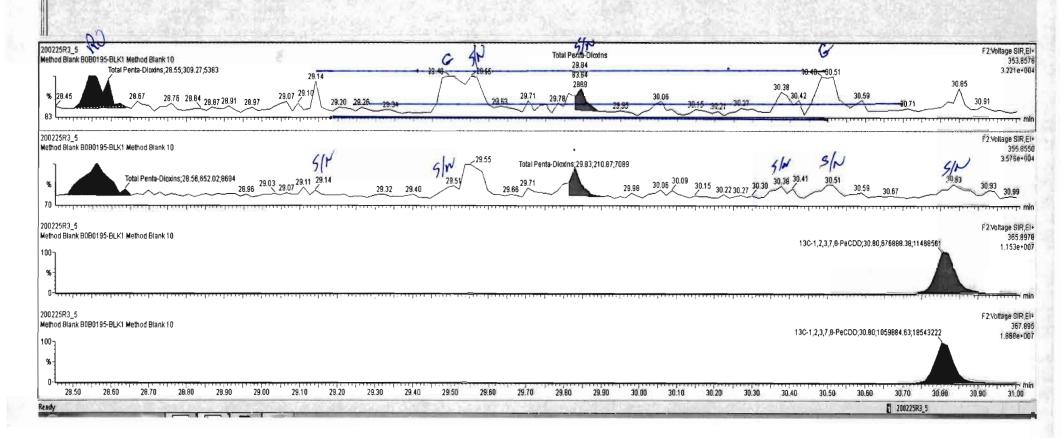
#### b TargetLynx XS - 200225R3-5.gld \* - [Chromatogram]

## Eile Edit View Display Processing Window Help

## 

	1	None	Resp	RA	nly	RRF	WINO	Pred.RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	OL.	EMPC
39	39	Total Tetra-Dioxins				0.9881	10.000	24.62		0.000	-	NO			0.0301	
40	40	Total Panta-Dicosta	The second second	1		0.9723	10.000	29.96		0.000		NO	0.0000	1000	0.0187	0.1204
41	41	Total Hexa-Dioxins	-			0.9211	10.000	33.63	-	0.000		NO	0.0000		0.0333	0.1179
42	42	Total Hepta-Dioxins				0.9231	10.000	37.64	-	0.000	1-1-2	NO	0.0000		0.0658	0.4247
43	43	Total Tetra-Furans				0.8020	10.000	23.61	_	0.000		NO	0.4643	-	0.0535	0.6193
44	44	1st Func. Penta-Furans				0.9074	10.000	27.09	-	0.000	-	NO	0.1206		0.0236	0.1206
10	10	Total Donto Europa				0.0074	10,000	20.17		0.000		1 10	A 4747	2 1	n n400	n 74 34

	1	Name	Pred.RT	RT	m1 Resp	m2 Resp	1º Retio (Pred)	RA	ny	EMPC	Conc.
1	40	Total Penta-Dioxins	29.96	28.55	3.093e2	6.520e2	0.630	0.47	YES	0.094773	0.00000
2	40	Total Penta-Dioxins	29.96	29.84	8.364e1	2.109e2	0.630	0.40	YES	0.025629	0.00000



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	: Wednesday, February 26, 2020 08:39:34 Pacific Standard Time Wednesday, February 26, 2020 08:39:36 Pacific Standard Time
76,250	225R3_5, Date: 25-Feb-2020, Time: 16:16:03, ID: B0B0195-BLK1 Method Blank 10, Description: Method Blank HxCDD Ju 077700 32.76 Total Hexa-Dioxids: 33.28:5.59e2:6622 33.70_33.74 4680 34.04 34.30:2.92e2:7491 34.58 24.99
F3:Voltage SIR,EI+ 389.816 35.52 35.52	32.60         32.76         34.04         51           32.60         32.76         32.76         34.04         30.222         34.30;2.922;7491         34.58         34.88         35.07
F3:Voltage SIR,EI+ 391.813	$\begin{array}{c} 5 \\ 5 \\ 32.73 \end{array}$ Total Hexa-Dioxins; 33.28; 3.38e2; 5858 33.66 5 [ $34.22$ 34.29 34.55; 34.58 34.76 34.91 34.97
35.53 3.422e+004	- And the man have a second the s
	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
35.53 3.422e+004	

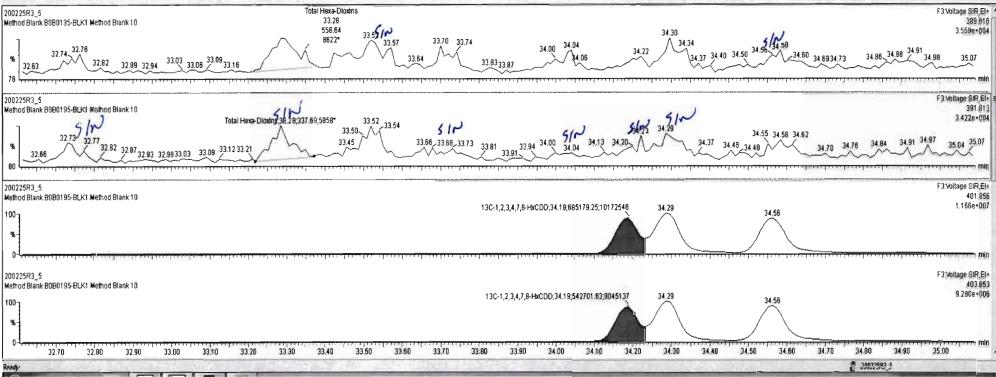
#### TargetLynx XS - 200225R3-5.qld \* - [Chromatogram]

File Edit View Display Processing Window Help

# 

	5	Name	Resp	RA	nly	RRF	wtwo	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	SMPC
41	41	Total Hexa-Dicxins	0.000	1 - 24	197	0.9211	10.000	33.63	200	0.000		NO	0.0000		0.0333	0.1179
42	42	Total Hepta-Dioxins				0.9231	10.000	37.64		0.000	1	NO	0.0000		0.0658	0.4247
43	43	Total Tetra-Furans			-	0.8020	10.000	23.61		0.000		NO	0.4843		0.0535	0.8193
44	44	1st Func. Penta-Furans				0.9074	10.000	27.09		0.000		NO	0.1206		0.0236	0.1206
45	45	Total Penta-Furans				0.9074	10.000	29.27		0.000		NO	0.4742		0.0488	0.7121
46	48	Total Hexa-Furans				0.8962	10.000	33.56		0.000		NO			0.0290	
47	47	Total Uparto Furnos		-		n 0544	10.000	97 00	-	0 000		10	n #500		0.447	0 4500

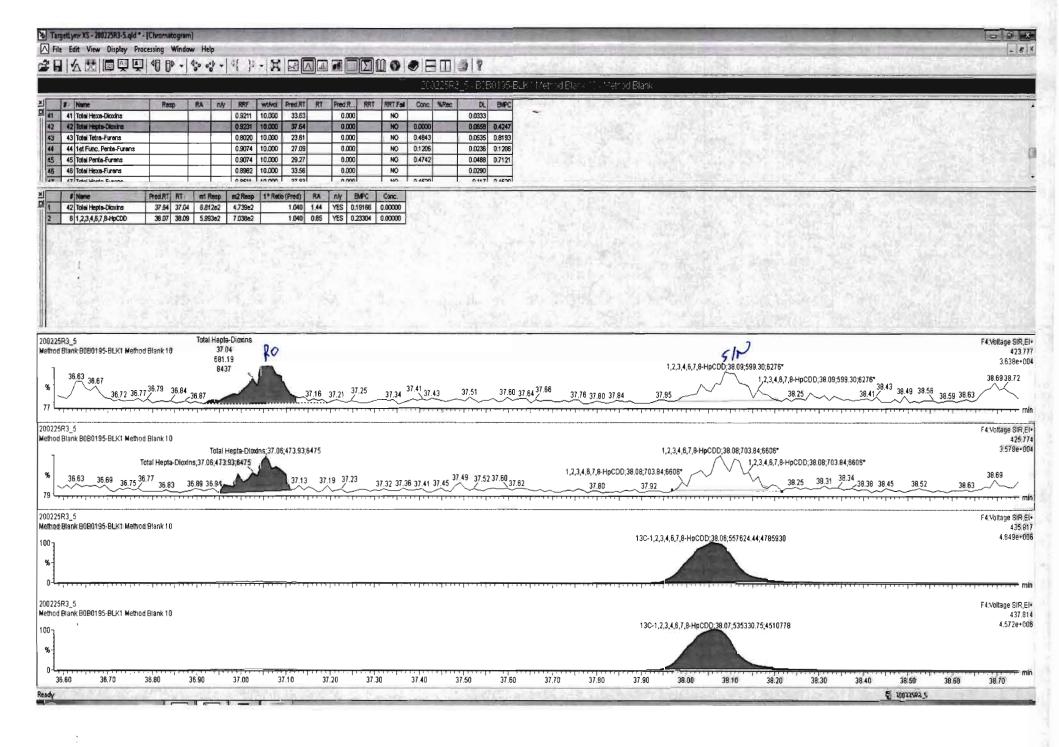
1		Name	Pred RT	RT	m1 Resp	m2 Resp	1º Ratio (Pred)	RA	nly	BMPC	Conc:
	41	Total Hexa-Dioxins	33.63	33.28	5.586e2	3.377e2	1.240	1.65	YES	0.11788	0.00000
	12										
										2,17	



0 - Method Blank

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1,2,3,4,6,7,8-HpCDD       36,63       Total Hepta-Dioxins.37.04,7.50e2.8497       38,09,26,12,4593,38,28       38,49       39,50       F4 Voltage SiR         100       36,63       Total Hepta-Dioxins.37.04,7.50e2.8497       37,60       38,09,26,12,4593,38,28       38,49       39,57       38,82       39,15       37,366         100       36,63       Total Hepta-Dioxins.37.05,4.74e2,6475       38,03,38,08,38,11       38,66,38,75       39,29       39,47       39,78       37,86         100       36,63       36,60       36,80       37,00       37,20       37,49       38,03       38,00       38,20       38,40       38,60       39,00       39,29       39,47       39,78       37,78         36,63       36,60       36,80       37,00       37,20       37,49       38,60       38,60       38,60       39,00       39,20       39,40       39,60       39,80       400         30,12,2,3,4,6,7,8-HpCDD       36,60       36,80       37,00       37,20       37,40       37,60       38,60       38,60       39,00       39,20       39,40       39,60       39,80       400         30,22,2,3,4,6,7,8-HpCDD       36,60       36,60       37,20       37,40       37,60       36,65,58e5,4785930       F4 Voltage	antify Sample Re sta Analytical Labor		1815				Page 5 of 13
inted:       Wednesday, February 26, 2020 08:39:36 Pacific Standard Time         ime: 200225R3_5, Date: 25-Feb-2020, Time: 16:16:03, ID: B0B0195-BLK1 Method Blank 10, Description: Method Blank         23,4,6,7,8-HpCDD         36,63       Total Hepta-Doxins 37 04.7 50e2.8497         37,60         38,09,2,6Hz/4,693,38,28         38,09,2,6Hz/4,693,38,75         39,00,38,08,38,11         38,69,38,75         39,20,39,40         36,60,36,60,36,60,36,60,36,60,37,00,37,20,37,40,37,60,37,80,38,00,38,20,38,40,38,60,38,60,39,80,39,00,39,20,39,40,39,60,39,80,40,0         C-1,2,3,4,6,7,8-HpCDD         C-1,2	itaset: Untitle	ed					
23,4,6,7,8+HpCDD 0225R3_5 36,63_Total Hepta-Dioxins;37,04,7,50e2,8497 37,60 38,09,2,6182,4693 38,49 38,69 38,40 38,40 3							
0225R3_5       36.63       Total Hepta-Dioxins 37 04,7 50e2.6497       38.09.2642.4693 38.28       38.69       F4 Voltage Sin         0       37.60       37.60       38.09.2642.4693 38.28       38.49       39.15       37.38+         0       36.63       Total Hepta-Dioxins 37 05,4.74e2,6475       38.09.2642.4693 38.28       38.49       38.92       39.15       37.38+         0       36.63       7.19       37.49       38.09.38.11       38.69       38.75       39.29       39.47       33.78       35.78+         0       36.63       37.19       37.49       38.00       38.00       38.00       38.69       38.00       39.00       39.20       39.40       39.60       39.80       40.0         0       36.63       37.00       37.20       37.49       37.60       37.80       38.00       38.60       38.00       39.00       39.20       39.40       39.60       39.80       40.0         0       36.20       36.40       36.60       36.80       37.00       37.49       37.60       37.80       38.00       38.60       39.00       39.20       39.40       39.60       39.80       40.0         2025R3_5       13C-1.2.3.4,6.7.8 HpCDD 38.06,5       58e5.4785930 <t< td=""><td>me: 200225R3_5,</td><td>Date: 25-Feb-2020, Time: 16:</td><td>16:03, ID: B0B0195-BLK</td><td>A Method Blank 10, Descripti</td><td>ion: Method Blank</td><td></td><td>National M</td></t<>	me: 200225R3_5,	Date: 25-Feb-2020, Time: 16:	16:03, ID: B0B0195-BLK	A Method Blank 10, Descripti	ion: Method Blank		National M
36 63       Total Hepta-Doxins 37 04,7 5022,8497       38 09,2 642,4593 38,28       38 97       38 92       39 15       37,80         37,60       37,60       38 09,2 642,4593 38,28       38,49       397       38 92       39 15       37,80         2225R3_5       Cotal Hepta-Doxins 37 05,4,7462,6475       38 03       38 08,38,11       6       F4 votage SIR         36,63       37,19       37,49       38 00       38 20       38 40       38 66       38 03       39,00       39,29       39,47       39,78       35,78e+         425       36,63       37,00       37,20       37,40       37,60       37,80       38,00       38,20       38,40       38,60       39,00       39,29       39,47       39,78       35,78e+         425       35,20       36,60       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       39,80       40,0         C-1,2,3,4,6,7,8-HpCDD       13C-1,2,3,4,6,7,8-HpCDD,38,06,5       58,65,5785,530       F4 votage SIR       48,49e+         40       35,5       33,26,5,7,8-HpCDD,38,07,5,3586,4785930       F4 votage SIR       48,49e+         40       3		00		0 8 of No			
37.60 37.60 37.60 38.49 38.49 38.49 38.49 38.49 38.49 38.42 38.49 38.42 38.42 38.42 38.42 38.42 38.42 38.42 38.42 38.42 38.42 38.62 38.62 38.62 38.65 38.75 39.29 39.47 39.78 39			:7.50e2:8497	KSIN			F4:Voltage SIR,EI+ 423.777
0 0 0 0 0 0 0 0 0 0 0 0 0 0	0-	30.03 ·····		38.09,2.6162,4593 38.28	9 3897 38.92	39.15	3.738e+004
Total Hepta-Dioxins, 37 05,4,74e2,6475       38 03       38 08,38.11       36 69       38 75       39,29       39,47       39,78       3576e+         425       36 63       37,19       37 49       37 49       38 03       38 08,38.11       38 69       38 75       39,29       39,47       39,78       3576e+         426       36 63       37,19       37 49       37 60       37 80       38 00       38 20       38 60       38 60       38 60       39 00       39 20       39 40       39 60       39 80       40 0         40       36 60       36 40       36 60       36 80       39 00       39 20       39 40       39 60       39 80       40 0         40       425       435       435       435       435       435       435         425       36 40       36 60       36 80       39 00       39 20       39 40       39 60       39 80       40 0         425       435       435       435       436       436       436       435       436         425       437       437       437       436       436       436       437       437         425       436       436       437 <td< td=""><td></td><td></td><td>وبراب وبالعار وبالمستلف والمتراف</td><td>وليشتكفه فيعتا بشطيب البرنياتين أر</td><td></td><td>والمتحد والمتحد والمتحد والمعارفة والمع</td><td>min min</td></td<>			وبراب وبالعار وبالمستلف والمتراف	وليشتكفه فيعتا بشطيب البرنياتين أر		والمتحد والمتحد والمتحد والمعارفة والمع	min min
20       Total Hepta-Dioxins 37 05.4,74e2,6475       38 08,38.11       38 69 38.75       39 29       39 47       39 78       3578e+         36 63       37,19       37 49       36 69       38.75       39 29       39 47       39 78       3578e+         425       36 63       37,19       37 49       37 60       37 80       38 00       38 20       38 69       38 75       39 29       39 47       39 78       3578e+         46       36 20       36 40       36 60       36 80       39.00       39 20       39 40       39 60       39 80       40 0         3022583_5       13C-1,2,3,4,6,7,8-HpCDD;38.06;5.58e5,4785930       F4.Voltage SIR       435         4849e+       4849e+       4849e+       4849e+       4849e+         5022583_5       13C-1,2,3,4,6,7,8-HpCDD;38.06;5.58e5,4785930       F4.Voltage SIR       F4.Voltage SIR         6022583_5       13C-1,2,3,4,6,7,8-HpCDD;38.06;5.58e5,4785930       F4.Voltage SIR       F4.Voltage SIR         7022583_5       13C-1,2,3,4,6,7,8-HpCDD;38.07;5.35e5,4510778       F4.Voltage SIR	)225R3_5	6			C		F4.Voltage SIR,EI+
0       0		Total Hepta-Dioxins;37.05		38.03 38.08 38.11		20.00 30.47	425.774
0       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         IC-1,2,3,4,6,7,8-HpCDD         0225R3_5         F4: Voltage SIR         4.849e+         0		30.03	7.19 51.43			39.29 33.41	39.78 0.0100 001
M0225R3_5       F4:Voltage SIR         M01       13C-1,2,3,4,6,7,8-HpCDD;38.06;5.58e5;4785930       435.         M01       4.849e+         M01       4.849e+         M0225R3_5       F4:Voltage SIR         M025R3_5       F4:Voltage SIR         M025R3       F4:Voltage SIR         M05       F4	36.20 36.4		7.20 37.40 37.60 3		38.60 38.80 39.00	39.20 39.40 39.60	39.80 40.00
13C-1,2,3,4,6,7,8-HpCDD;38.06;5.58e5;4785930 435. 4.849e+ 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		CDD					Ed-Voltono SIR ELL
4.849e+ 4.849e+ 4.849e+ 4.849e+ 0 0 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1			13C-1,2,3,	4,6,7,8-HpCDD;38.06;5.58e5;4785930	)		435.817
0 0 0 0 0 0 0 0 0 0 0 0 0 0				$\wedge$			4.849e+006
00225R3_5 00 13C-1,2,3,4,6,7,8-HpCDD;38.07;5.35e5;4510778 F4:Voltage SIR 437.							
13C-1,2,3,4,6,7,8-HpCDD;38.07;5.35e5;4510778 437.				ىلىيىتىيىتىكىيى <i>تى يىلى يونىكى يو</i> لىيىتىك	معتمال ومطاعدة الرطوما وصبا ويدو	<u>ايى بىلى بىيىلى بىيايى بىل</u> ارىتىنى	E4:Voltage SIR E1+
/ \			13C-1,2,3	,4,6,7,8-HpCDD;38.07;5.35e5;4510778	8		437.814 4.572e+006
				/ \			4.572e+000
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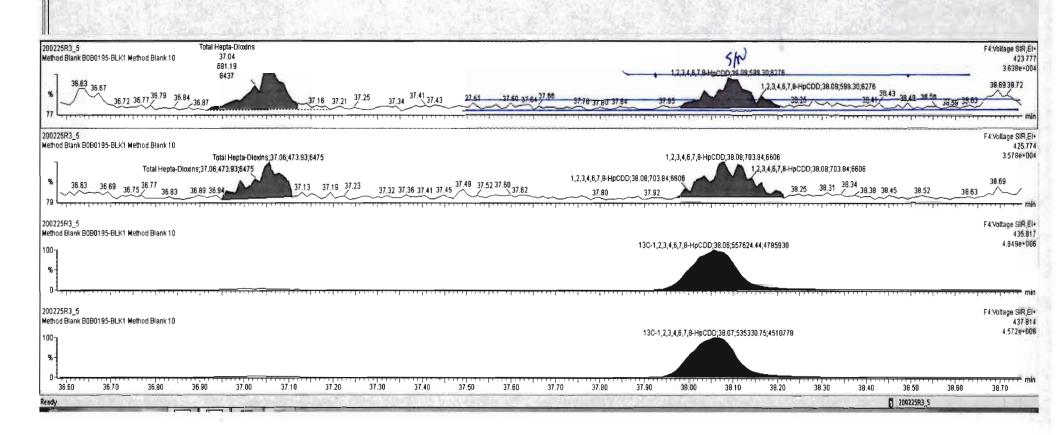
#### TargetLynx XS - 200225R3-5.qld \* - [Chromatogram]

#### File Edit View Display Processing Window Help

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1	32	Nane	Resp	RA.	nh	RRF	WIND	Pred.RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPO
41	41	Total Hexa-Dioxins				0.9211	10.000	33.63	1.1	0.000		NO	1		0.0333	
42	42	Total Heptis-Dicodins	COLUMN STATE	1.20	1	0.9231	10,000	37.54		0.000	120	NO	0.0000		0.0658	0.4247
43	43	Total Tetra-Furans				0.8020	10.000	23.61		0.000		NO	0.4843		0.0535	0.8193
44	44	1st Func, Penta-Furans				0.9074	10.000	27.09		0.000		NO	0.1206	_	0.0236	0.1206
45	45	Total Penta-Furans			_	0.9074	10.000	29.27		0.000		NO	0.4742		0.0488	0.7121
48	46	Total Hexa-Furans				0.8962	10.000	33.56		0.000		NO			0.0290	
67	47	Total Lingto Figure		1		0.0544	110.000	27 02		0.000		NPA I	0 4600		0 447	0 4500

-		Name	Pred.RT	81	mi Resp	m2 Resp	1ª Ratio (Pred)	RA	nly	BMPC .	Conc.
1	42	Total Hepta-Dioxins	37.64	37.04	6.812e2	4.73982	1.040	1.44	YES	0.19186	0.00000
2	6	1,2,3,4,6,7,8-HpCDD	38.07	38.09	5.993e2	7.038e2	1.040	0.85	YES	0.23304	0.00000

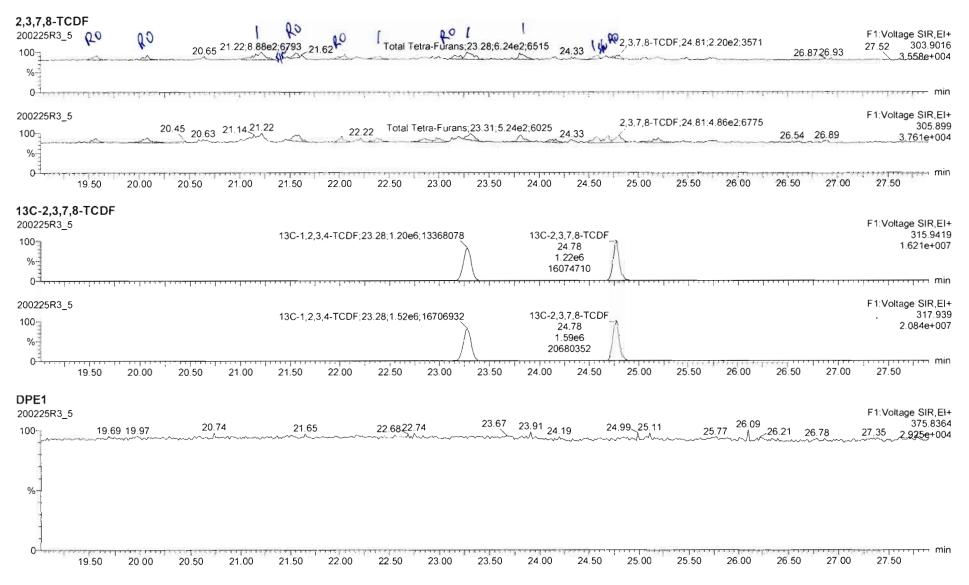


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ast Altered: rinted:	Wednesday, F Wednesday, F	ebruary 26, 2020 08:39:34 Pacif ebruary 26, 2020 08:39:36 Pacif	c Standard Time c Standard Time						
20022	5P3 5 Data: 25	-Feb-2020, Time: 16:16:03, ID:	8080105 BLK1 M	othod Blank 10	Description	Mothod Bla	ak.		
CDD	5K5_5, Date. 25	-reb-2020, rime. 10.10.03, iD.	BUBUISS-BERTIN	lethoù blank 10,	Description.				
0225R3_5									F5:Voltage SIR,EH
00		OCDD;41.20;1.57e3;205	25 .37;4.49e2;9198						457.738 4.994e+004
		/ WAK		42.08	42.48				
%-				42.00				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
<u> </u>									
0 presidente		hand a standard and a standard and a standard							min received and
00225R3_5									F5:Voltage SIR,EI+
00		OCDD;41.20;1.72e3;234	85 1.20;1.72e3;23485						459.735 5.279e+004
8		12000.4							
%	- marine - m	- have	41.61		42.41			43.	68
70									
0				42.00 42.20					
40.20	0 40.40 40.60	) 40.80 41.00 41.20 41.	40 41.60 41.80	42.00 42.20	42.40 42.6	0 42.80	43.00 43.20	43.40 43.60	43.80 44.00
C-OCDD									
0225R3_5		13C-OCD	<b>`</b>						F5:Voltage SIR,EI+ 469.778
00-		41.18	,						9.116e+006
-		9.53e5 9065672							
%		1 1000072							
		4							
0.4			<del></del>						min بىبىيىسىيى
0225R3_5									F5:Voltage SIR,EI+
00.		13C-OCD 13C-OCD 13C-OCD	)						471.775 1.008e+007
1		/ 41.18 / 1.08e6							1.008e+007
1	•	/ \10034901							
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40.20	) 40.40 40.60	) 40.80 41.00 41.20 41.	10 41.60 41.80	42 00 42.20	42.40 42.6	0 42 80	43.00 43.20	43.40 43.60	43.80 44.00

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#### Name: 200225R3\_5, Date: 25-Feb-2020, Time: 16:16:03, ID: B0B0195-BLK1 Method Blank 10, Description: Method Blank



#### 5 TargetLynx XS - 200225R3-5a.gld \* - [Chromatogram] 0 6 0 File Edit View Display Processing Window Help - 4 X # Nome Resp RA MY RRF WAND Pred RT RT Pred R. RRT RRT Fal Conc Ser 01 FMPC P 43 43 Total Tetra-Furana 0 8020 10.000 23.61 0.000 0.0258 NO 44 45 46 47 48 10 44 1st Func, Penta-Furans 0.9074 10.000 27.09 0.000 NO 0.1206 0.0236 0.1206 0.000 NO 0.5879 0.0488 0.7283 45 Total Penta-Furans 0 9074 10.000 29.27 0.000 0.8835 0.0653 0.9393 45 Total Hexa-Furans 0.8982 10,000 33.56 NO 0.000 NO 0 4646 0.117 0.5781 47 Total Hepta-Furans 0.8511 10.000 37.83 48 PFK1 10 0510 ×I Pred RT RT m2 Resp 1º Reto (Pred) RA if Name mt Resp nlv SHOC Conc. DIA SIN 200225R3 5 F1 Voltage SIR.EI+ S/2 23.28 SIN 303 9016 Method Blank 9080195-BLK1 Method Blank 10 SIN 512 SIN 5/N 3.558e+004 SIN 21.22 21 56 23.80 1.56 A \_21.62 21.99 21.16 22.05 22.17 22.38 22.56 22.76 22.94 23.00 23.16 23.37 20.08 ٨ 21.47 24.81 19.5 20.65 25.48 25.72 25.88 24.07 24.16 24.33 24 36 A 20.23 20.32 20.38 21.10 23.52 23.73 20.03 24.8825 08 25.21 26.18 26.26 26.33 26.71 26.87 26.93 26.99 21.83 % 19 70 20 93 73 - mir 200225R3 5 F1:Voltage SIR,EI+ Method Blank B0B0195-BLK1 Method Blank 10 305.899 3.761e+004 23.19 23.31 21.14 21.22 21.59 24.69 23.82 24.81 22.02 22.86 22.98 24.58 22.22 22.38 21.45/M 25.15.25.20 20.09 21.01 21.65 19.57 20 45 20.59 20.63 20.68 24.10 24.16 24.33 23.59 25 71 25.94 26.00 26.23 26.54\_26.60 26.89 26.98 % 22.76 A19.67 21.86 23.48 25.45 in Andre 69 - mi F1.Voltage SIR.EI+ 200225R3\_5 Method Blank 8080195-BLK1 Method Blank 10 315.9419 1.621e+007 13C-2.3.7.8-TCDF:24.78:1218026.13:16074710 100-23.28 %-۰**n** min F1.Voltage SIR,EI+ 200225R3 5 Method Blank 9080195-8LK1 Method Blank 10 317.939 13C-2,3,7,8-TCDF;24.78;1586459.50;20680352 2084e+007 100-23.28 %-٥. 22.25 23.00 24.25 24.50 25.25 25.50 25.75 26.00 26.25 28,50 26,75 19.50 19.75 20.00 20.25 20.50 20.75 21.00 21.25 21.50 21.75 22.00 22.50 22,75 23.25 23.50 23.75 24.00 24.75 25.00 27.00 200225R3\_5

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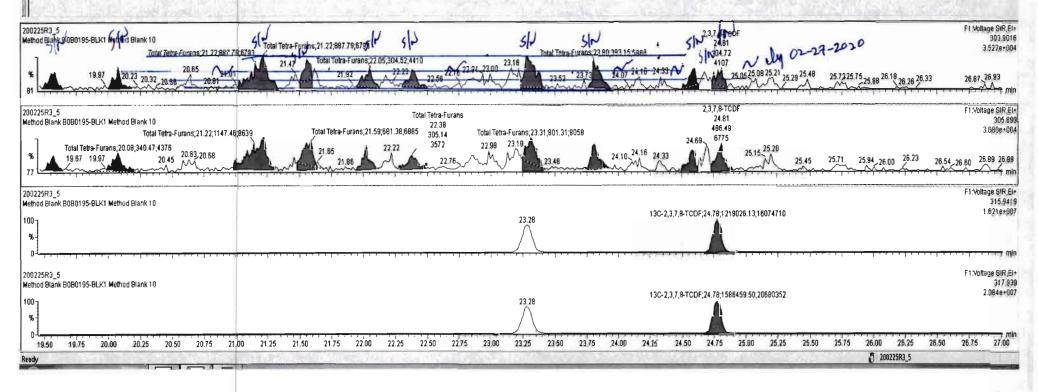
#### > TargetLynx XS - 200225R3-5.qld \* - [Chromatogram]

File Edit View Display Processing Window Help

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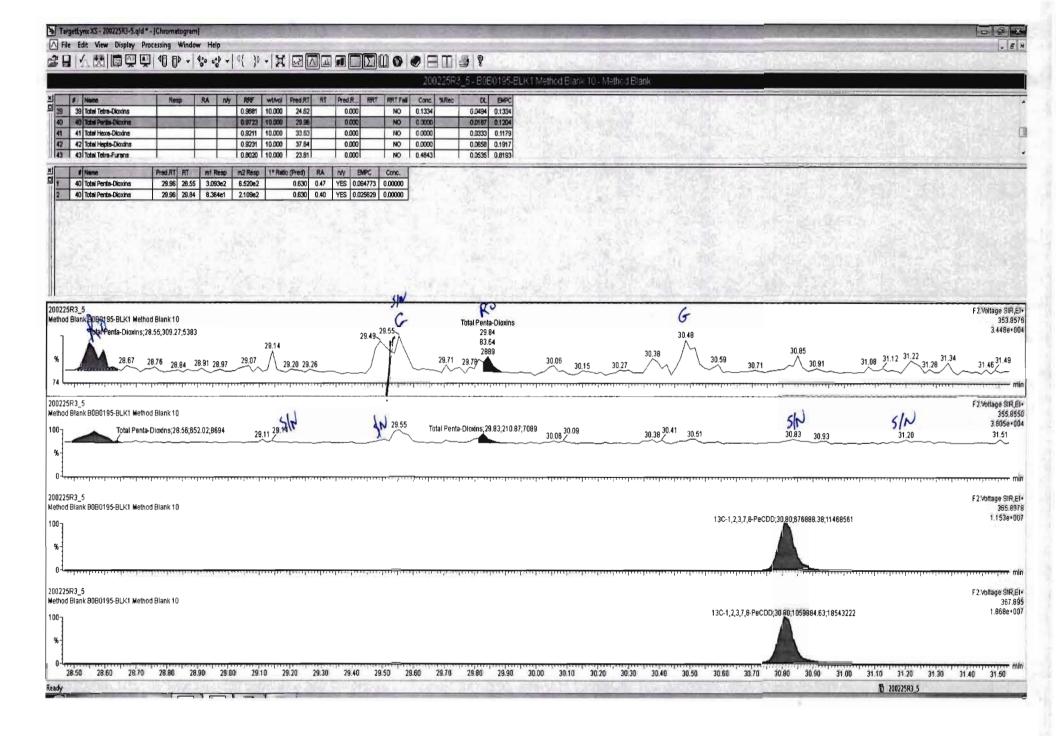
	1	Name	Resp	RA	nły	RRF	wthat	Pred.RT	RT	Pred.R	RRT	RRT Fel	Conc.	%Rec	DL	EMPC
43	43	Total Tetra-Furana	and the second			0.8020	10.000	23.61	100	0.000	1	NO	0.4465	the state	0.0535	0.7783
44	44	1st Func. Penta-Furans				0.9074	10.000	27.09		0.000		NO	0.1206		0.0236	0.1206
45	45	Total Penta-Furans				0.9074	10.000	29.27		0.000		NO	0.2414		0.0488	0.5753
48	46	Total Hexa-Furans				0.8962	10.000	33.56		0.000		NO	0.8010		0.0653	0.8567
47	47	Total Hepta-Furans				0.8511	10.000	37.83		0.000		NO	0.0000	S	0.0563	0.3840

		Name	Pred.RT	RT /	m1 Resp	m2 Resp	1º Ratio (Pred)	RA	n/y	BMPC	Conc
1	43	Total Tetra-Furans	23.61	19.58	2.365e2	2.282e2	0,770	1.04	YES	0.035921	0.00000
2	43	Total Tetra-Furans	23.61	20.08	2.331e2	3.405e2	0.770	83.0	NO	0.051001	0.00000
3	43	Total Tetra-Furans	23.61	21.22	8.878e2	1.147e3	0.770	0.77	NO	0.18096	0.18098
4	43	Total Tetra-Furans	23.61	21.56	4.089e2	6.814e2	0.770	0.60	YES	0.063574	0.00000
5	43	Total Tetra-Furans	23.61	22.05	3.045e2	3.240e2	0.770	0.94	YES	0.051000	0.00000
5	43	Total Tetra-Furans	23.61	22.38	2.704e2	3.051e2	0.770	0.89	YES	0.048028	0.00000
7	43	Total Tetra-Furans	23.61	23.28	6.463e2	8.013e2	0.770	0.81	NO	0.12872	0.12872
8	43	Total Tetra-Furans	23.61	23.80	3.932e2	4.576e2	0.770	0.86	NO	0.075649	0.07564
9	43	Total Tetra-Furans	23.61	24,60	2.810e2	4.067e2	0.770	0.69	NO	0.061154	0.06115
10	8	2,3,7,8-TCDF	24,80	24.81	3.047e2	4.865e2	0.770	0.63	YES	0.062286	0 00000



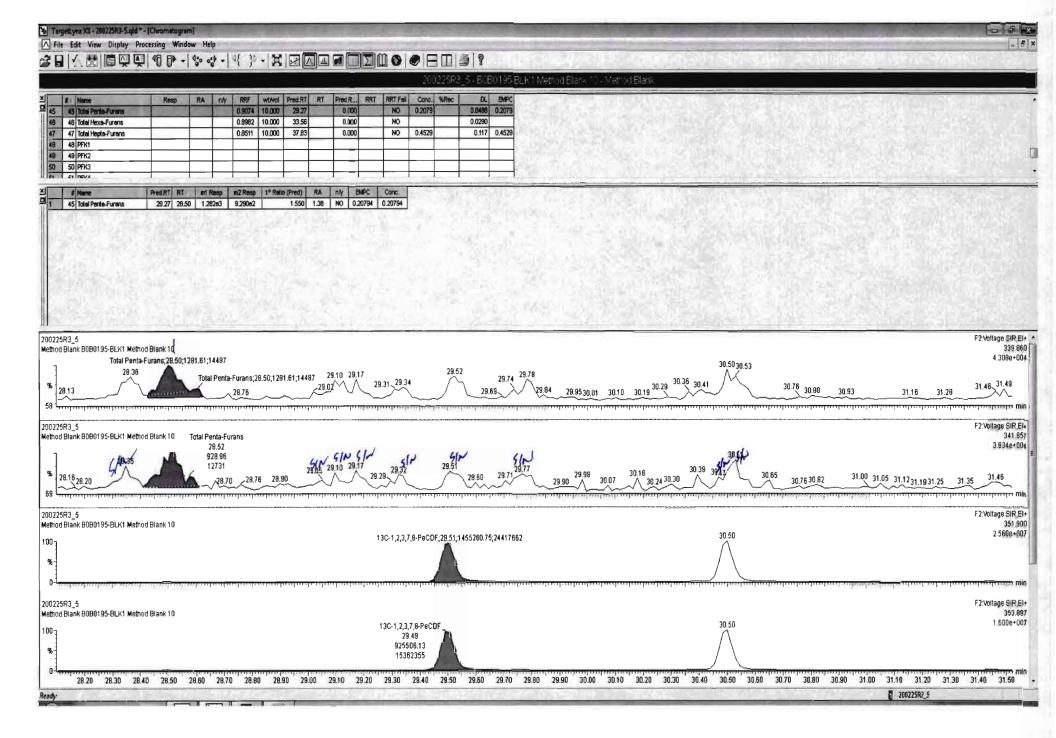
200225R3 5 BCB0195-BLK1 Method Blank 10 - Method Blank

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ast Altered: rinted:	Wednesday, February 26, 2 Wednesday, February 26, 2			
		Time: 16:16:03, ID: E	30B0195-BLK1 Method Blar	k 10, Description: Method Blank
<b>t Func. Per</b> 0225R3_5	nta-Furans			1st Func. Penta-Furans;26.87;7.37e2;10881 F1:Voltage SIR,
19.19	20.66	21,62	22.83	24.79 25.09 25.69 26.17 26.59 26.98 3.831e+
%-				
0				
0225R3_5				1st Func. Penta-Furans:26.87:5.45e2:7359 F1:Voltage SIR
DO-1	19.64 19.79 20.48.20.56	21.27 21.42 22.1	16 23.16 23.30	24.66 25.08 25.81 26.05 26.39 27.19 27.61 3.437e+
%- 	50 20.00 20.50 21.00	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
PE6				
0225R3_5 )0-,	20.60	21.51 21.63 21.84	22.19 22.74 23.27	F1:Voltage SIR. 409.7 24.87 25.90 26.86 3.051e+
19.4	3 19.64 20.20 20.84	L. M. M. M. M.	mmmmmmm	24.40 24.93 26.21 27.86
1	3 0.20 20.84 mhannahantantantantantantantantantantantantanta	L. M.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	24.40 24.93 26.21 27.80
1	3 0.20 20.84 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	Leen Marken A	and the second sec	24.40 24.93 26.21 27.81
19.4	3 10.00 20.84 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm		and	24.40 24.93 26.21 27.80
1	3 20.20 20.84	L	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	24.40 24.93 26.21 27.86
19.4	3 10.00 20.84 mhannahannahannahannahannahannahannahan	L	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	24.40 24.93 26.21 27.86
19.4	3 10.00 20.84 mhannahannahannahannahannahannahannahan	L	and	24.40 24.93 26.21 27.88

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Name: 2000	225R3 5 Date: 2	25-Feb-20	120 Tim	<u>م. 16:16</u>	·03 ID:	B0B01	95-BLK	1 Method	Blank	10 Descri	intion:	Method	Blank					N-1924-911412
<b>1,2,3,7,8-Pe</b> 200225R3_5	225R3_5, Date: 2 eCDF <i>R</i> o	+ 104 128	120,	5. 10110	b1 0 2/2	8/20	ah or	The	02272	020	19410111	S In a	02-29-20-	22				
100-	Total Penta-Furans; 28.13	28.50;8.83e	2;12739 71 28.85	20				57e2;10102				9.50;9.566				31.46.31.4	9	tage SIR,EI+ 339.860 4.308e+004
0-1		فليعدا يتعط	an tan ta	ليستعد	erergizen:	14-641444	elevertere:	1711-111 <u>17</u> 1	ni sata n	+****		1		********				······ min
200225R3_5	Total Penta-Furans	5,28.52;9.11	e2;12630	29.40	<b>5</b> ما 29.17	SIN	shu	SIN	29.9830	18 2,3,4,7,8	8-PeCDF	30.53;5.2	26e2;8385	31.05	5 <u>31.12</u>	31.46		tage SIR,EI+ 341.857 4.099e+004
0		1122112/1121	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					····						ورزوار		وانتعابتمات		min
28.00	28.20 28.40	28.60	28.80	29.00	29.20	29.40	29.60	29.80	30.00	30.20	30.40	30.60	30.80	31.00	31.20	31.40	31.60	31.80
13C-1,2,3,7	,8-PeCDF																	
200225R3 5																	FZ:VO	lage Sik,EI*
200225R3_5 100 <sub>3</sub>				130	C-1,2,3,7,	8-PeCDF	;29.51;1.4 /\	16e6;244176	362 13	C-2,3,4,7,8- 30.50	<u>^</u>	٦					FZ:VOI	351.900
				13י	C-1,2,3,7,	.8-PeCDF	5;29.51;1.4	6e6;244176	362 13		s /						F Z. VQI	Itage SIR,EI+ 351.900 2.560e+007
100 %	<del></del>			13 <sup>,</sup>	C-1,2,3,7,	8-PeCDF	29.51,1.4	6e6;244176	;62 13	30.50 1.41e6	s /	1	<del>.</del>	+++++++++++++++++++++++++++++++++++++++				351.900 2.560e+007
100 - %	T	+	•••••	••••	-1,2,3,7,8		;29.51;1.4 	6e6;244176	<del></del>	30.50 1.41e6 2542815 	PeCDF	2 1	<del></del>	<del></del>				351.900 2.560e+007 min Itage SIR,EI+ 353.897
100- %- 0 200225R3_5	+	<del></del>	•••••	••••	-1,2,3,7,8 29.49 9.26e	B-PeCDF	7	6e6;244176	<del></del>	30.50 1.41e6 2542815 	-PeCDF	1		<del></del>				351.900 2.560e+007 min Itage SIR,EI+ 353.897
100 %	28.20 28.40	28.60	28.80	••••	-1,2,3,7,8 29.4	3-PeCDF 9 55 355	$\overline{\boldsymbol{\lambda}}$		<del></del>	30.50 1.41e6 2542815 7	-PeCDF	30.60		,,				351.900 2.560e+007
100 %	28.20 28.40	,, 28.60		13C	-1,2,3,7,8 29.49 9.26e 153623	B-PeCDF	$\overline{\boldsymbol{\lambda}}$		,, 13	30.50 1.41e6 2542815 	-PeCDF	30.60		,, ,	 		F2:Vol	351.900 2.560e+007 Itage SIR,EI- 353.897 1.600e+007
100 %			28.80	13C	-1,2,3,7,8 29.45 9.26e 153623 	3-PeCDF 3-5 555 29.40	$\overline{\boldsymbol{\lambda}}$		13 ,, 30.00	30.50 1.41e6 2542815 	-PeCDF 56 56 56 56 30.40	30.60				31.40 31.46	F2:Vol 31.60 F2:Vol 31.63	351.900 2.560e+007 Itage SIR,EI+ 353.897 1.600e+007 31.80 Itage SIR,EI+ 409.7972
100 % 				 13C  29.00	-1,2,3,7,8 29.45 9.26e 153623 	3-PeCDF 3-5 555 29.40	29.60	 	13 ,, 30.00	30.50 1.41e6 2542815 	-PeCDF 56 56 56 56 30.40			,,			F2:Vol 31.60 F2:Vol 31.63	351.900 2.560e+007 Itage SIR,EI+ 353.897 1.600e+007 31.80
100 %- 0 200225R3_5 100 28.00 DPE2 200225R3_5 100 28.00				 13C  29.00	-1,2,3,7,8 29.45 9.26e 153623 	3-PeCDF 3-5 555 29.40	29.60	 	13 ,, 30.00	30.50 1.41e6 2542815 	-PeCDF 56 56 56 56 30.40			,, ,, 31.00			F2:Vol 31.60 F2:Vol 31.63	351.900 2.560e+007 Itage SIR,EI+ 353.897 1.600e+007 31.80 Itage SIR,EI+ 409.7974
100 % 				 13C  29.00	-1,2,3,7,8 29.45 9.26e 153623 	3-PeCDF 3-5 555 29.40	29.60	 	13 ,, 30.00	30.50 1.41e6 2542815 	-PeCDF 56 56 56 56 30.40						F2:Vol 31.60 F2:Vol 31.63	351.900 2.560e+007 Itage SIR,EI+ 353.897 1.600e+007 31.80 Itage SIR,EI+ 409.7974



Work Order 2000329

# 



# Name	Resp	R	A NY	RRF	witwoi	PredRT	RT	PredR	RRT	FRT Fel	Conc.	%Rec	DL	EMPC	
43 Total Tetra-Furans				0.9020	10.000	23.61		0.00	0	NO			0.0268		2월 18일 - 18일 2월
44 1st Func. Penta-Furan	·			0.9074	10.000	27.09		0.00	00	NO	0.1206		0.0236	0.1206	
45 Total Perte-Furans		1.0	111	0.9074	10.000	29.27		0.00	10	NO	0.5220		0.0488	0.7575	
46 Total Hexa-Furans		-		0.8982	10.000	33.56		0.00	00	NO	0.8835		0.0653	0.9393	
47 Total Heple-Furans				0.8511	10.000	37.83		0.00	0	NO	0.4646		0.117	0.5781	
48 PFK1														-	
aninsun	10000	1	1.11		1.11	200.0		1	1	1		1		1	
\$ Nemo	Pred.RT F		ni Resp	m2 Resp			RA		EMPC	Conc.	EN CON	Sec.		18	
45 Total Penta-Furans	29.27 2	_	6.837e2	3.785e2	_	1.550				0.00000					
45 Total Penta-Furans	29.27 2		1.434e3	1.009e3		1.550				0.22983					
45 Total Penta-Furans	29.27 2		4.784e2	1.527e2		1.550				0.00000					
45 Total Penta-Furans	29.27 2	_	3.567e2	2.39362		1.550				0.056059	1.54				
45 Total Penta-Furans	29.27 2		3.72782	2.449e2		1.550	_	_	0.058097						가지 아이에 가지 않는 것 같아요. 이 것 ? 이 것 같아요. 이 것 같아요. 이 것 같아요. 이 것 ? 이 있 ?
9 1,2,3,7,8-PeCDF	29.53 2		6.796e2	4.212e2		1.550	1.61			0.10191					
45 Total Penta-Furans	29.27 2	_	3.665e2	3.214e2		1.550	_			0.00000					
10 2,3,4,7,8-PeCDF	30.50 3	_	4.133e2	2.209e2	_	1.550			0.051345						
45 Total Penta-Furans	29.27 3	0.53	5.13282	2.956e2		1.550	1.74	NO	0.076074	0.076074					
od Blank BOB0195-BLK1 M			28.5 1434 1512	12			9.02	M	٨	29.34 372.61 5485	8	h		29.7	2,3,4,7,8-PeCDF;30,50,1,23,13750 30,36 30,41 31,451,49
28.13 25R3_5	dand rodan	Tota	uli sh		28.85.29	91 		otal Per	nta-Furan:	s	1.2	3.7.8-PeCI	of morter	2.69	28.84 26.66 30.01 30.10 30.10 30.10 30.26 30.06 30.76 30.96 30.97 30.93 30.97 31.16 31.28 31.32
28.13 25R3_5 od Blank B0B0195-BLK1 M 28.20	thod Blank 10	Tota	IPenta-Fi 28.52 1009.21 13087			28.93	Tr	29	9:26 11	s 5		3,7,8-PeCI 29.51 421.22 5403 51	DF	Total Per	90 84         20.05 30.01         30.10         30.20         30.01         31.20         31.32         A           Furans           Sector           Sector         30.01         31.20         31.32         A           Furans           Sector         Sector           Sector         Sector           Sector         Sector
25R3_5 od Blank B0B0195-BLK1 M 28.20 28.20 25R3_5		Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	9:26 11			29.51	DF	Total Per 32	30.84         20.05         30.15         30.29         30.65         30.76         30.89         31.16         31.28         31.32           Furans         31.00         30.15         30.39         31.16         31.28         31.32           31.00         30.16         30.39         31.16         31.28         31.32           31.00         30.19         30.39         31.48         31.43           29.90         30.07         30.74         30.39         31.48         31.43           29.90         30.07         30.74         30.39         31.48         31.43           29.90         30.07         30.74         30.39         31.48         31.43           7         30.74         30.76         30.76         31.00         31.05         31.12         31.35         31.48         31.43           7         30.76         30.76         30.76         30.82         31.00         31.05         31.12         31.35         31.48         31.48           7         30.76         30.76         30.76         30.76         31.00         31.05         31.12         31.35         31.48         31.48
25R3_5 od Blank B0B0195-BLK1 M 28.20 28.20		Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	9:26	51	asafaanti 2	29.51 421.22 5403 51		Total Per 21 32	30.84         20.05 30.01         30.18         30.29         30.64         30.76         30.89         31.16         31.28         31.32         A           Furans         31.16         30.39         30.39         31.16         31.28         31.32         A           31.16         30.28         30.39         31.16         31.28         31.32         A           31.17         30.39         30.39         31.48         31.32         A         31.48         31.43           29.90         30.07         30.18         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.48
25R3_5 od Blank B0B0195-BLK1 M 28.20 28.20 25R3_5		Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	9:26	51	asafaanti 2	29.51		Total Per 21 32	30.84         26.05         30.18         30.28         31.32         31.16         31.28         31.32           Furans         30.39         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.25         31.32           31/r         29.98         30.19         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.19 31.25         31.36         31.48         31.32           29.90         30.07         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.19 31.25         31.36         31.48         31.35           29.90         30.07         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.19 31.25         31.35         31.48         31.35           29.90         30.07         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.19 31.25         31.35         31.48         31.35           29.90         30.07         30.39         30.65         30.76 30.92         31.00         31.05         31.35         31.48         31.35           29.90         90.07         30.39         30.39         30.65         30.76 30.92
25R3_5 od Blank B0B0195-BLK1 M 28.20 28.20 25R3_5		Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	9:26	51	asafaanti 2	29.51 421.22 5403 51		Total Per 21 32	30.84         26.05         30.18         30.28         31.32         31.16         31.28         31.32           Furans         30.39         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.25         31.32           31/r         29.98         30.19         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.19 31.25         31.36         31.48         31.32           29.90         30.07         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.19 31.25         31.36         31.48         31.35           29.90         30.07         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.19 31.25         31.35         31.48         31.35           29.90         30.07         30.39         30.65         30.76 30.92         31.00         31.05         31.12 31.19 31.25         31.35         31.48         31.35           29.90         30.07         30.39         30.65         30.76 30.92         31.00         31.05         31.35         31.48         31.35           29.90         90.07         30.39         30.39         30.65         30.76 30.92
25R3_5 od Blank B0B0195-BLK1 M 28.20 28.20 25R3_5		Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	9:26	51	asafaanti 2	29.51 421.22 5403 51		Total Per 21 32	30.84         26.05         30.18         31.28         31.32           Furans         51.04         30.87         31.16         31.28         31.32           31.16         30.39         30.39         31.16         31.28         31.32           32.9.90         30.19         30.39         30.65         30.76 30.82         31.00         31.05         31.12 31.19 31.25         31.36         31.48
25R3_5 od Blank B0B0195-BLK1 M 28.20 28.20 25R3_5		Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	9:26	51	asafaanti 2	29.51 421.22 5403 51		Total Per 21 32	30.84         26.05 all UT         30.18         31.28         31.32           Furans         51/1         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.32           29.98         30.18         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.32         41           31/1         29.98         30.18         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.44         31           29.90         30.07         30.74         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31           29.90         30.07         30.74         30.39         30.65         30.76         30.82         31.00         31.05         31.12         31.35         31.48         31           40.00         30.76         30.82         31.00         31.05         31.12         31.35         31.48         35           50.07         30.74         30.76         30.82         31.00         31.05         31.12         31.35         31.48         35
25R3_5 od Blank B0B0195-BLK1 M 28.20 28.20 25R3_5		Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	9:26	51	asafaanti 2	29.51 421.22 5403 51		Total Per 21 32	30.76         30.76         30.84         30.76         31.86         31.28         31.32           Furans         51.06         30.39         30.87         31.16         31.28         31.32           31.16         30.29         30.39         31.16         31.28         31.32           31.17         30.39         30.39         30.65         30.76 30.82         31.00         31.05         31.12 31.19 31.25         31.36         31.48
25R3_5 od Blank 8080195-BLK1 M 28.20 28.20 25R3_5 od Blank 8080195-BLK1 M 25R3_5 25R3_5	thod Blank 10	Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	9:26	51	asafaanti 2	29.51 421.22 5403 51		Total Per 21 32	29.94         20.05         30.75         31.88         31.28         31.32           Furans         52.908         30.39         30.87         31.18         31.28         31.32           31.10         29.98         30.18         30.39         30.65         30.76 30.82         31.00         31.05         31.12 31.19         31.32         44           31.10         29.98         30.07         30.39         30.65         30.76 30.82         31.00         31.05         31.12 31.19         31.35         31.48         31.43           30.50         30.65         30.76 30.82         31.00         31.05         31.12 31.19         31.35         31.48         31.43           50.50         30.50         30.50         30.50         30.50         31.00         31.05         31.12 31.19         31.25         31.5         31.48         35.96           30.50         30.50         30.50         30.50         30.50         30.50         30.50         30.50         30.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50         35.50<
25R3_5 od Blank 8080195-BLK1 M 28.20 28.20 25R3_5 od Blank 8080195-BLK1 M	thod Blank 10	Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	9:26	51	asafaanti 2	29.51 421.22 5403 51		Total Per 21 32	20.84         20.05         30.76         31.88         31.28         31.32           Furans         52.50 Hage SIF         341         35.94 er         31.00         31.05         31.12         31.32         44           31.12         29.90         30.18         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.46         31.47           31.12         29.90         30.07         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.46         31.47           29.90         30.07         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.46         31.47           29.90         30.07         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.46         31.46         31.46         31.27         31.35         31.46         31.27         31.35         31.46         31.27         31.35         31.46         31.27         31.35         31.46         31.27         31.35         31.46         31.27         31.35         31.46         31.27         31.35         31.47
25R3_5 od Blank 8080195-BLK1 M 28.20 28.20 25R3_5 od Blank 8080195-BLK1 M 25R3_5 25R3_5	thod Blank 10	Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	117 9-25 [J 275] [J 1	3C-1,2,3,7	,8-PeCDF	29.51 421-22 5403 51		Total Per 21 32	20.84         20.05         30.76         31.86         31.28         31.32           Furans         F2 Voltage SIR         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.32         41           31.6         29.90         30.18         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48
25R3_5 od Blank 8080195-BLK1 M 28.20 28.20 25R3_5 od Blank 8080195-BLK1 M 25R3_5 25R3_5	thod Blank 10	Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	117 9-25 [J 275] [J 1	51 30-1,2,3,7 130-1,2,3, 29	,8-PeCDF	29.51 421-22 5403 51		Total Per 21 32	20.84         20.05         30.76         30.80         30.97         31.16         31.28         31.32           Furans         F2 Voltage SIF         341         3504e         30.39         31.00         31.05         31.12         31.32         44           31.12         29.90         30.18         30.39         30.65         30.76         30.82         31.00         31.05         31.12         31.35         31.46         31.4           29.90         30.07         30.18         30.39         30.65         30.76         30.82         31.00         31.05         31.12         31.35         31.46         31.4           29.90         30.07         30.78         30.39         30.65         30.76         30.82         31.00         31.05         31.12         31.35         31.46         31.4           29.90         30.07         30.78         30.76         30.82         31.00         31.05         31.12         31.35         31.46         31.2           29.90         30.07         30.78         30.76         30.82         31.00         31.05         31.12         31.35         31.48         31.2           30.50         30.50         30.50         30.5
25R3_5 od Blank 8080195-BLK1 M 28.20 28.20 25R3_5 od Blank 8080195-BLK1 M 25R3_5 25R3_5	thod Blank 10	Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	117 9-25 [J 275] [J 1	3C-1,2,3,7	,8-PeCDF 7,8-PeCDF 7,8-PeCD	29.51 421-22 5403 51		Total Per 21 32	20.84         20.05         30.76         30.80         30.97         31.16         31.28         31.32           Furans         F2 Voltage SIF         341         3504e         30.39         31.00         31.05         31.12         31.32         44           31.12         29.90         30.18         30.39         30.65         30.76         30.82         31.00         31.05         31.12         31.35         31.46         31.4           29.90         30.07         30.18         30.39         30.65         30.76         30.82         31.00         31.05         31.12         31.35         31.46         31.4           29.90         30.07         30.78         30.39         30.65         30.76         30.82         31.00         31.05         31.12         31.35         31.46         31.4           29.90         30.07         30.78         30.76         30.82         31.00         31.05         31.12         31.35         31.46         31.2           29.90         30.07         30.78         30.76         30.82         31.00         31.05         31.12         31.35         31.48         31.2           30.50         30.50         30.50         30.5
25R3_5 od Blank 8080195-BLK1 M 28.20 28.20 25R3_5 od Blank 8080195-BLK1 M 25R3_5 25R3_5	thod Blank 10	Tota	IPenta-Fi 28.52 1009.21 13087	urans		81 	Tr	29	117 9-25 [J 275] [J 1	51 30-1,2,3,7 130-1,2,3, 29	,8-PeCDF 7,8-PeCDF 7,8-PeCD	29.51 421-22 5403 51		Total Per 21 32	20.84         20.05         30.75         31.88         31.28         31.32           Furans         52.Voltage SIF         34         35.04         30.65         30.76 30.82         31.00         31.05         31.12         31.32         44         35.04           31.10         29.98         30.07         30.18         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.           29.90         30.07         30.78         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.           1000         30.07         30.78         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.           1000         30.07         30.78         30.30         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.           30.50         30.50         30.50         30.50         30.50         35.36         35.36         35.36         35.36         35.36         35.36         35.36         35.36         35.36         35.36 <td< td=""></td<>
25R3_5 od Blank 8080195-BLK1 M 28.20 28.20 25R3_5 od Blank 8080195-BLK1 M 25R3_5 od Blank 8080195-BLK1 M	thod Blank 10		Penta-Fi 28.52 130827 - 20.52	628.76	28.9	22 228.933	29.05	29 234 5 5	1 1	20-1,2,3,7 3C-1,2,3,7 13C-1,2,3, 29 9255 1536	7,8-PeCDI 06.13 2355	29.51 421-22 5403 51 228.51,145	)F	12.50	20.84         20.96         20.16         30.18         31.28         31.4         31.28         31.4           50.84         20.96         30.18         30.33         30.47         30.97         31.16         31.28         31.27           Furans         30.39         30.39         30.39         31.18         31.28         31.47           29.90         30.18         30.39         30.49         30.65         30.76         31.00         31.05         31.12         31.35         31.48         33           10.9         30.07         39.39         30.39         30.48         30.35         31.00         31.05         31.12         31.35         31.48         31           29.90         30.07         39.39         30.39         30.48         30.48         31.00         31.05         31.12         31.35         31.48         31           10.9         30.50         30.50         30.50         2.560e         351         355 </td
25R3_5 d Blank 8080195-BLK1 M 28.20 25R3_5 d Blank 8080195-BLK1 M 25R3_5 od Blank 8080195-BLK1 M	thod Blank 10		Penta-Fi 28.52 130827 - 20.52	628.76	28.9	22 228.933	29.05	29 234 5 5	1 1	20-1,2,3,7 3C-1,2,3,7 13C-1,2,3, 29 9255 1536	7,8-PeCDI 06.13 2355	29.51 421-22 5403 51 228.51,145	)F	12.50	20.84         20.05         30.75         31.88         31.28         31.32           Furans         52.Voltage SIF         34         35.04         30.65         30.76 30.82         31.00         31.05         31.12         31.32         44         35.04           31.10         29.98         30.07         30.18         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.           29.90         30.07         30.78         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.           1000         30.07         30.78         30.39         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.           1000         30.07         30.78         30.30         30.65         30.76 30.82         31.00         31.05         31.12         31.35         31.48         31.           30.50         30.50         30.50         30.50         30.50         35.36         35.36         35.36         35.36         35.36         35.36         35.36         35.36         35.36         35.36 <td< td=""></td<>

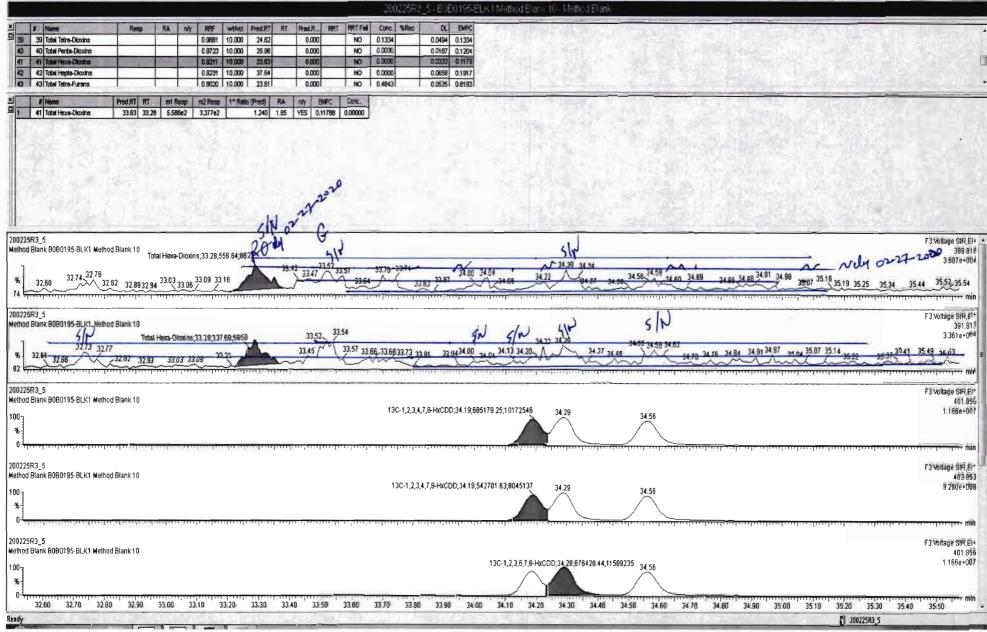
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: 200225	5R3_5, Dat	e: 25-Fe	eb-2020, 1	Time: 16	:16:03, II	D: B0B01	95-BLK1	Method	Blank	10, Descr	ption: M	ethod Bla	ank		20	2020	
<b>4,7,8-Hx</b> ( iR3_5	CDF	5/2				SRO	Isin st	2000	*]	512				428	SNR	5°F3	Voltage SIR,EI+
	Hexa-Furans	32.35;8.9		.72	1,2,3,4	1,7,8-HxCDF	A	1e2;16589 	3 73	34.05;5.256	2:8158	34	.56 1,2,3	7,8,9-HxCl	01:34.95;5.0	8e2;6435	373.821 4.542e+004
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	LEVEL DE LE	un darad	C. C		ANTI TANK	1.000 1.000		1							10000000000000000000000000000000000000	on	Woltage SIR,EI+
R3_5 1.87 Total	Hexa-Furans	;32.35;7.0	6e2;10774	32	1,2,3.	4,7,8-HxCD	F;33.35;6.	19e2,11212	33.71 3	3.84 34.04	34.08		1.2,3,7	8.9-HxCDF	\$4.91;3.74	6	4.056e+004
								3			•			All	<b>P</b> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		4.0000.0004
32.00	32.20	32.40	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 min
	8-HxCDF																
R3_5	TIXODI				130	-1,2,3,6,7,8	HYCDE 33	44:6 12e5	9437527	13C	-2.3.4.6.7.8	B-HxCDF;34	02:5.79e5:	8454992		F3	:Voltage SIR,EI+ 383.864
					100	1,2,0,0,7,0	$\bigwedge$	/		Á					34.90;4 72	e5;575695	0 5910+005
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R3_5										420	224676		00:1 10-0	10101011		F3	Voltage SIR,EI+
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	•					]	ÝÝ				<b>`</b>						min
32.00	32.20	32.40	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 min
R3_5 1.88	32.26		32.56	32.	90 33.0	08		33,65	3	3,90 34	0834.19		34.56	34.73		F 3 35.33	
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#### Targeti yrx XS - 200225R3-5.qld - [Chromatogram]

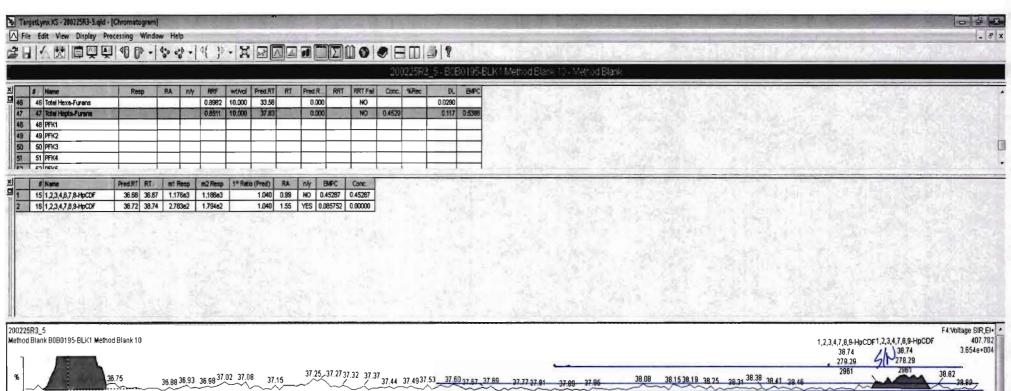
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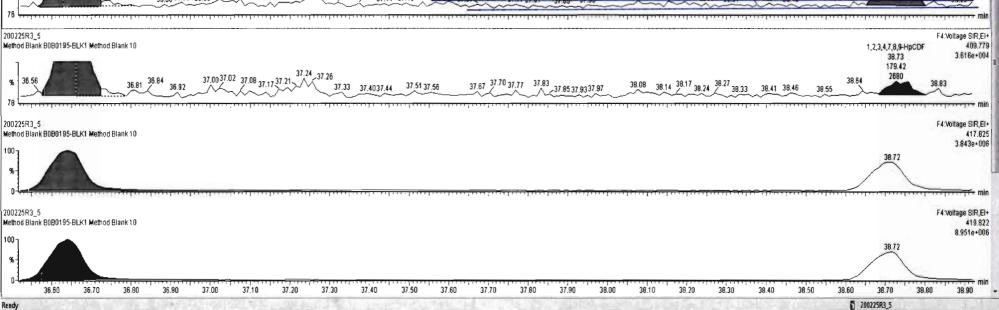
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me: 20022	5R3_5, Date: 2 IpCDF	25-Feb-2020	), Time: 1	6:16:03,	ID: B0B0	195-BLK1 M	ethod Bl	ank 10,	Descrip	tion: Me	thod BI	ank	2				
3,4,6,7,8-ł	HpCDF	The second se									Rasso						
225R3_5	1,2,3,4,6,7,8-Hp									3	8.74 78e2					F4:Volta	ge SIR,E 407.78
36.01		m	37.02	37.25			38.0	08			2961			39.44		4	.409e+00
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225R3_5	402467840		2-2-15279	37.24 2.05e2												F4:Volta	ge SIR,E 409.7
2	1,2,3,4,6,7,8-Hp	CDF,36.68,5.9	37.00	3490		37.77 37 83	38.	08		3	8.73	39 06	5	39.36		4	409.7
1		1					20.00		20.40	20.00	20.00	20.00	20.20	20.40		20.00	10 00
36.2	0 36.40 36	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	40.00
	7,8-HpCDF																
225R3_5	-1,2,3,4,6,7,8-HpC	DE:36 64:3 72	65·3783342	,												F4:Volta	ge SIR,E 417.8
	-1,2,3,4,0,7,04700	<u> </u>	.e0,0700042					130	C-1,2,3,4,7	,8,9-HpCC	0F;38.72;2	63e5;2659	058			3	8.843e+0
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36.2	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	38.80	39.00	39.20	39.40	39.60	39.80	40.00
					37.50	)										F4:Volta	ge SIR,E 479.71
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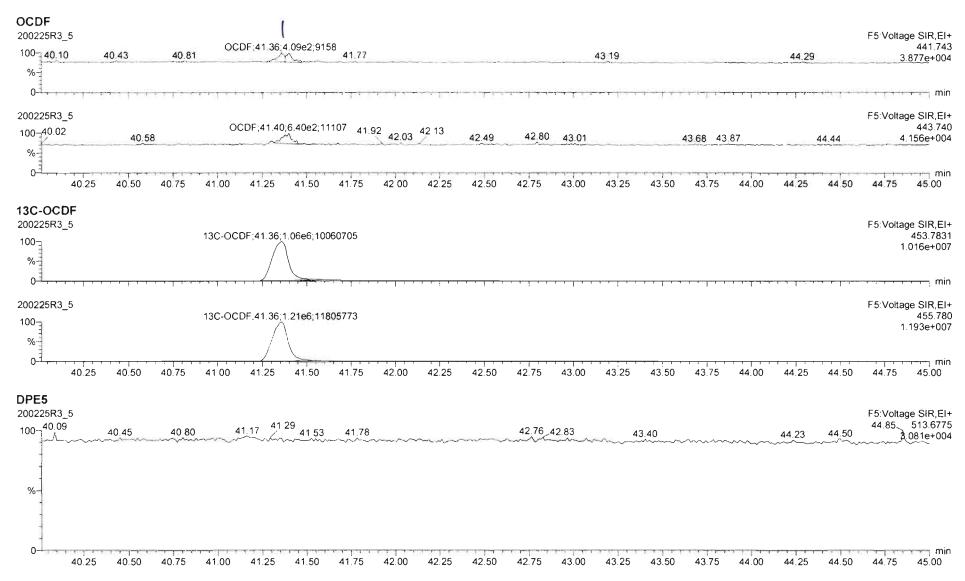


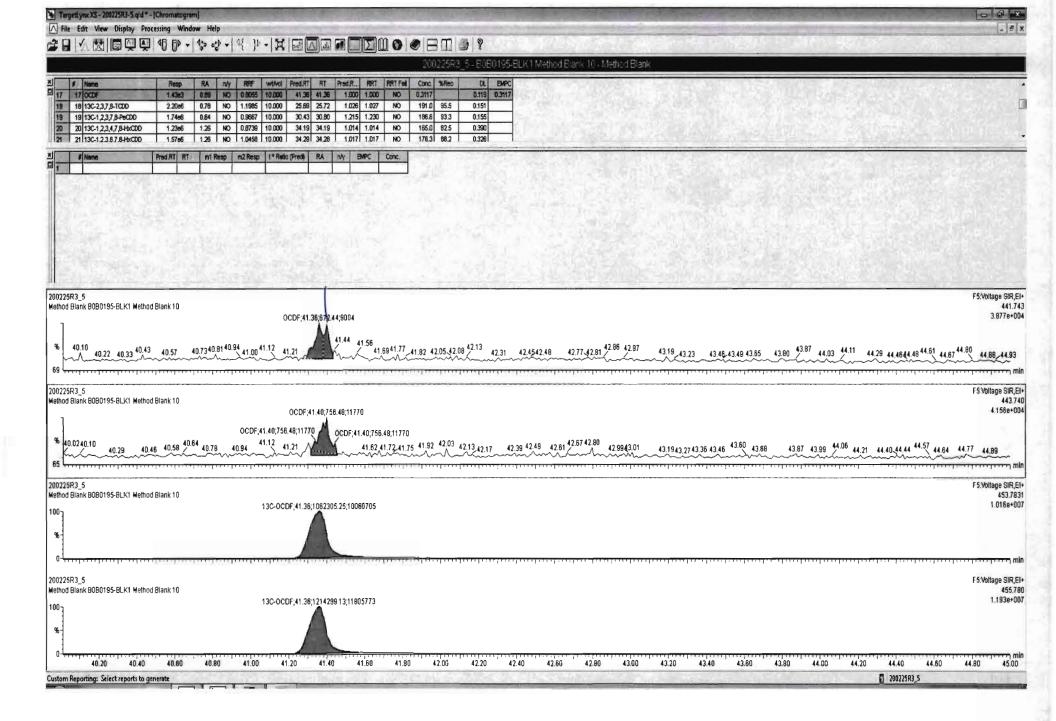


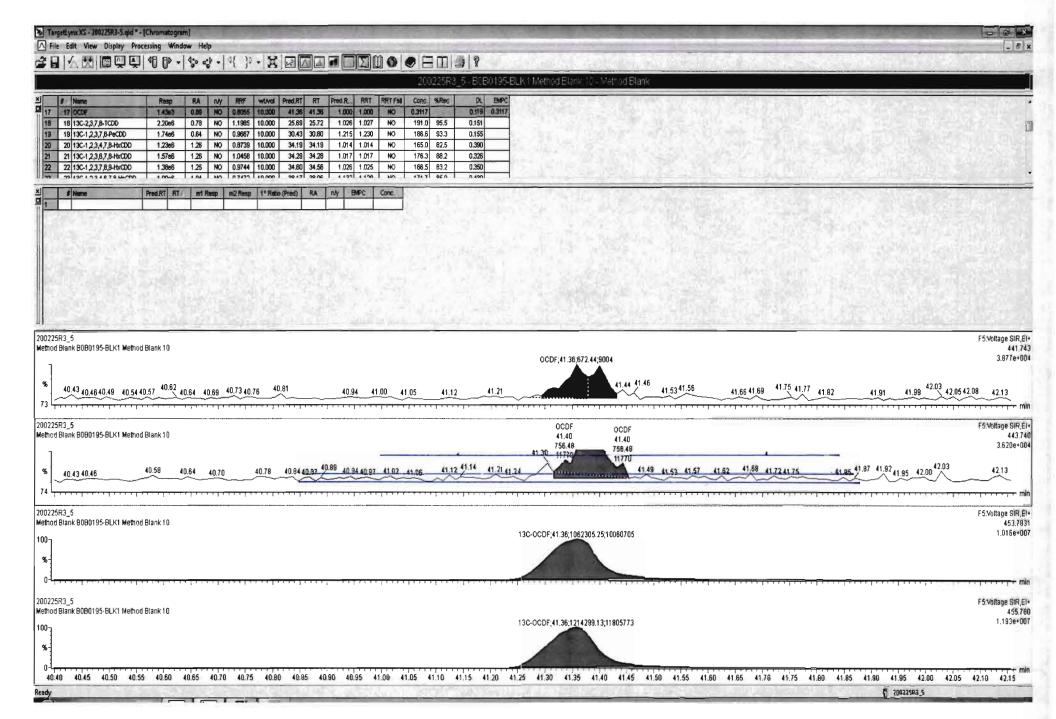
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Quantify Sam Vista Analytica		Page 12 of 13
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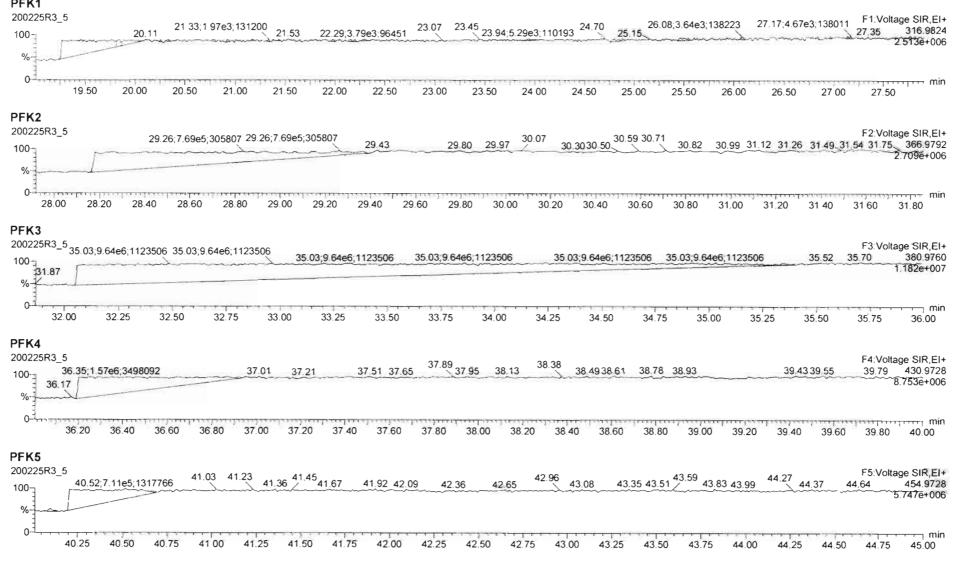
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Quantify Sam Vista Analytica		Page 13 of 13
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PEK1		



#### Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

#### U:\VG12.PRO\Results\200225R3\200225R3-2.qld Dataset:

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#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

### Name: 200225R3\_2, Date: 25-Feb-2020, Time: 13:54:46, ID: B0B0195-BS1 OPR 10, Description: OPR

and the second	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	165021.368	0.755	NO	0.988	10.000	25.75	25.74	1.00	1.00	NO	18.47		0.0765	18.47
2	2 1,2,3,7,8-PeCDD	655429.375	0.621	NO	0.972	10.000	30.84	30.83	1.00	1.00	NO	90.79		0.0982	90.79
3	3 1,2,3,4,7,8-HxCDD	568827.735	1.228	NO	1.07	10.000	34.21	34.21	1.00	1.00	NO	97.31		0.221	97.31
4	4 1,2,3,6,7,8-HxCDD	634592.469	1.247	NO	0.921	10.000	34.30	34.32	1.00	1.00	NO	104.6		0.230	104.6
5	5 1,2,3,7,8,9-HxCDD	575167.016	1.223	NO	0.918	10.000	34.61	34.58	1.00	1.00	NO	105.9		0.261	105.9
6	6 1,2,3,4,6,7,8-HpCDD	426990.188	1.028	NO	0.923	10.000	38.09	38.09	1.00	1.00	NO	98.05		0.396	<del>9</del> 8.05
7	7 OCDD	828450.594	0.889	NO	0.975	10.000	41.18	41.20	1.00	1.00	NO	198.3		0.343	198.3
8	8 2,3,7,8-TCDF	198486.211	0.746	NO	0.802	10.000	24.80	24.79	1.00	1.00	NO	21.33		0.0919	21.33
9	9 1,2,3,7,8-PeCDF	915581.969	1.557	NO	0.907	10.000	29.53	29.52	1.00	1.00	NO	99.16		0.148	99.16
10	10 2,3,4,7,8-PeCDF	939753.281	1.552	NO	0.952	10.000	30.53	30.51	1.00	1.00	NO	99.44		0.135	99.44
11	11 1,2,3,4,7,8-HxCDF	652977.625	1.212	NO	0.862	10.000	33.34	33.36	1.00	1.00	NO	110.6		0.247	110.6
12	12 1,2,3,6,7,8-HxCDF	785791.344	1.218	NO	0.841	10.000	33.48	33.48	1.00	1.00	NO	118.2		0.252	118.2
13	13 2,3,4,6,7,8-HxCDF	733493.344	1.219	NO	0.898	10.000	34.06	34.04	1.00	1.00	NO	114.8		0.255	114.8
14	14 1,2,3,7,8,9-HxCDF	583689.313	1.207	NO	0.858	10.000	34.91	34.94	1.00	1.00	NO	109.8		0.355	109.8
15	15 1,2,3,4,6,7,8-HpCDF	506030.828	1.012	NO	0.851	10.000	36.69	36.67	1.00	1.00	NO	111.7		0.367	111.7
16	16 1,2,3,4,7,8,9-HpCDF	422107.234	1.003	NO	0.980	10.000	38.72	38.74	1.00	1.00	NO	114.4		0.460	114.4
17	17 OCDF	891881.344	0.861	NO	0.806	10.000	41.36	41.38	1.00	1.00	NO	223.6		0.294	223.6
18	18 13C-2,3,7,8-TCDD	1808615.0	0.782	NO	1.20	10.000	25.69	25.72	1.03	1.03	NO	197.7	98.9	0.186	
19	19 13C-1,2,3,7,8-PeCDD	1485033.6	0.626	NO	0.967	10.000	30.43	30.82	1.22	1.23	NO	201.3	101	0.221	
20	20 13C-1,2,3,4,7,8-HxCDD	1091853.6	1.257	NO	0.874	10.000	34.20	34.20	1.01	1.01	NO	184.3	92.1	0.366	
21	21 13C-1,2,3,6,7,8-HxCDD	1317723.4	1.254	NO	1.05	10.000	34.30	34.30	1.02	1.02	NO	185.8	92.9	0.306	
22	22 13C-1,2,3,7,8,9-HxCDD	1182662.3	1.229	NO	0.974	10.000	34.61	34.57	1.03	1.02	NO	179.0	89.5	0.328	
23	23 13C-1,2,3,4,6,7,8-HpCDD	943526.656	1.009	NO	0.747	10.000	38.18	38.08	1.13	1.13	NO	186.2	93.1	0.494	
24	24 13C-OCDD	1714999.4	0.920	NO	0.707	10.000	41.08	41.18	1.22	1.22	NO	358.0	89.5	0.430	
25	25 13C-2,3,7,8-TCDF	2320277.1	0.776	NO	1.07	10.000	24.87	24.78	0.99	0.99	NO	198.2	99.1	0.327	
26	26 13C-1,2,3,7,8-PeCDF	2035112.7	1.615	NO	1.00	10.000	29.46	29.51	1.18	1.18	NO	184.9	92.5	0.354	
27	27 13C-2,3,4,7,8-PeCDF	1986351.6	1.603	NO	0.962	10.000	30.42	30.50	1.21	1.22	NO	188.0	94.0	0.369	
28	28 13C-1,2,3,4,7,8-HxCDF	1369797.8	0.516	NO	1.05	10.000	33.33	33.34	0.99	0.99	NO	192.6	96.3	0.473	
29	29 13C-1,2,3,6,7,8-HxCDF	1580649.6	0.522	NO	1.19	10.000	33.43	33.47	0.99	0.99	NO	195.9	98.0	0.417	
30	30 13C-2,3,4,6,7,8-HxCDF	1422932.1	0.521	NO	1.07	10.000	34.04	34.03	1.01	1.01	NO	196.8	98.4	0.466	
31	31 13C-1,2,3,7,8,9-HxCDF	1239383.8	0.495	NO	0.922	10.000	34.95	34.91	1.04	1.04	NO	198.2	99.1	0.53 <b>9</b>	

Page 1 of 2

# Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200225R3\200225R3-2.qld

Last Altered:	Wednesday, February 26, 2020 13:34:07 Pacific Standard Time
Printed:	Wednesday, February 26, 2020 13:46:42 Pacific Standard Time

## Name: 200225R3\_2, Date: 25-Feb-2020, Time: 13:54:46, ID: B0B0195-BS1 OPR 10, Description: OPR

Call and	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1064178.3	0.461	NO	0.767	10.000	36.70	36.65	1.09	1.09	NO	204.6	102	0.518	
33	33 13C-1,2,3,4,7,8,9-HpCDF	753243.485	0.454	NO	0.552	10.000	38.72	38.72	1.15	1.15	NO	201.1	101	0.720	
34	34 13C-OCDF	1980360.3	0.872	NO	0.789	10.000	41.32	41.36	1.23	1.23	NO	370.0	92.5	0.425	
35	35 37CI-2,3,7,8-TCDD	674242.000			1.18	10.000	25.72	25.74	1.03	1.03	NO	75.11	93.9	0.0481	
36	36 13C-1,2,3,4-TCDD	1526372.1	0.785	NO	1.00	10.000	25.11	25.05	1.00	1.00	NO	200.0	100	0.223	
37	37 13C-1,2,3,4-TCDF	2197450.6	0.788	NO	1.00	10.000	23.37	23.26	1.00	1.00	NO	200.0	100	0.348	
38	38 13C-1,2,3,4,6,9-HxCDF	1356047.9	0.513	NO	1.00	10.000	33.71	33.73	1.00	1.00	NO	200.0	100	0.497	
39	39 Total Tetra-Dioxins				0.988	10.000	24.62		0.00		NO	19.20		0.0765	19.20
40	40 Total Penta-Dioxins				0.972	10.000	29.96		0.00		NO	91.25		0.0982	91.96
41	41 Total Hexa-Dioxins				0.921	10.000	33.63		0.00		NO	308.8		0.248	308.8
42	42 Total Hepta-Dioxins				0.923	10.000	37.64		0.00		NO	99.41		0.396	99.41
43	43 Total Tetra-Furans				0.802	10.000	23.61		0.00		NO	22.47		0.0919	23.45
44	44 1st Func. Penta-Furans				0.907	10.000	27.09		0.00		NO	0.3176		0.0375	0.3176
45	45 Total Penta-Furans				0.907	10.000	29.27		0.00		NO	200.5		0.145	201.8
46	46 Total Hexa-Furans				0.898	10.000	33.56		0.00		NO	454.4		0.264	454.4
47	47 Total Hepta-Furans				0.851	10.000	37.83		0.00		NO	226.9		0.434	226.9

#### Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-2.qld

Last Altered: Wednesday, February 26, 2020 13:34:07 Pacific Standard Time Printed: Wednesday, February 26, 2020 13:46:56 Pacific Standard Time

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

#### Name: 200225R3\_2, Date: 25-Feb-2020, Time: 13:54:46, ID: B0B0195-BS1 OPR 10, Description: OPR

#### **Tetra-Dioxins**

1.3.1	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	1 2,3,7,8-TCDD	1.65e5	1.81e6	0.755	NO	25.75	25.74	18.47	18.47
2	39 Total Tetra-Dioxins	4.28e3	1.81e6	0.781	NO	24.62	25.42	0.4793	0.4793
3	39 Total Tetra-Dioxins	2.21e3	1.81e6	0.749	NO	24.62	21.59	0.2474	0.2474

#### Penta-Dioxins

and the	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.49e6	1.288	YES	29.96	29.54	0.0000	0.07347
2	40 Total Penta-Dioxins	2.46e3	1.49e6	0.625	NO	29.96	28.58	0.3411	0.3411
3	40 Total Penta-Dioxins	0.00e0	1.49e6	0.956	YES	29.96	31.23	0.0000	0.1983
4	2 1,2,3,7,8-PeCDD	6.55e5	1.49e6	0.621	NO	30.84	30.83	90.79	90.79
5	40 Total Penta-Dioxins	0.00e0	1.49e6	1.857	YES	29.96	30.53	0.0000	0.05786
6	40 Total Penta-Dioxins	0.00e0	1.49e6	0.399	YES	29.96	30.39	0.0000	0.1568
7	40 Total Penta-Dioxins	8.61e2	1.49e6	0.689	NO	29.96	29.83	0.1193	0.1193
8	40 Total Penta-Dioxins	0.00e0	1.49e6	0.881	YES	29.96	29.74	0.0000	0.05934
9	40 Total Penta-Dioxins	0.00e0	1.49e6	0.617	NO	29.96	29.58	0.0000	0.1700

#### **Hexa-Dioxins**

14	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	5.75e5	1.18e6	1.223	NO	34.61	34.58	105.9	105.9
2	4 1,2,3,6,7,8-HxCDD	6.35e5	1.32e6	1.247	NO	34.30	34.32	104.6	104.6
3	3 1,2,3,4,7,8-HxCDD	5.69e5	1.09e6	1.228	NO	34.21	34.21	97.31	97.31
4	41 Total Hexa-Dioxins	1.77e3	0.00e0	1.331	NO	33.63	33.53	0.3204	0.3204
5	41 Total Hexa-Dioxins	1.58e3	0.00e0	1.066	NO	33.63	33.29	0.2858	0.2858
6	41 Total Hexa-Dioxins	2.30e3	0.00e0	1.375	NO	33.63	32.76	0.4168	0.4168

#### Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-2.qld

Last Altered:Wednesday, February 26, 2020 13:34:07 Pacific Standard TimePrinted:Wednesday, February 26, 2020 13:46:56 Pacific Standard Time

### Name: 200225R3\_2, Date: 25-Feb-2020, Time: 13:54:46, ID: B0B0195-BS1 OPR 10, Description: OPR

### **Hepta-Dioxins**

STATES IN	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	4.27e5	9.44e5	1.028	NO	38.09	38.09	98.05	98.05
2	42 Total Hepta-Dioxins	5.92e3	9.44e5	1.094	NO	37.64	37.08	1.358	1.358

### **Tetra-Furans**

1725	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	6.11e2	2.32e6	0.870	NO	23.61	24.36	0.06571	0.06571
2	43 Total Tetra-Furans	5.16e2	2.32e6	0.689	NO	23.61	24.12	0.05542	0.05542
3	43 Total Tetra-Furans	2.43e3	2.32e6	0.858	NO	23.61	23.82	0.2617	0.2617
4	43 Total Tetra-Furans	2.78e3	2.32e6	0.745	NO	23.61	23.30	0.2987	0.2987
5	43 Total Tetra-Furans	0.00e0	2.32e6	0.900	YES	23.61	23.15	0.0000	0.1344
6	43 Total Tetra-Furans	0.00e0	2.32e6	1.469	YES	23.61	23.00	0.0000	0.05047
7	43 Total Tetra-Furans	0.00e0	2.32e6	0.956	YES	23.61	22.83	0.0000	0.07742
8	43 Total Tetra-Furans	0.00e0	2.32e6	1.220	YES	23.61	22.38	0.0000	0.06879
9	43 Total Tetra-Furans	0.00e0	2.32e6	0.917	YES	23.61	22.01	0.0000	0.09768
10	43 Total Tetra-Furans	0.00e0	2.32e6	0.809	NO	23.61	21.56	0.0000	0.2314
11	43 Total Tetra-Furans	0.00e0	2.32e6	1.028	YES	23.61	21.17	0.0000	0.2688
12	43 Total Tetra-Furans	0.00e0	2.32e6	0.601	YES	23.61	20.63	0.0000	0.05856
13	43 Total Tetra-Furans	7.08e2	2.32e6	0.796	NO	23.61	20.03	0.07614	0.07614
14	43 Total Tetra-Furans	1.04e3	2.32e6	0.790	NO	23.61	19.51	0.1116	0.11 <b>1</b> €
15	43 Total Tetra-Furans	5.34e2	2.32e6	0.827	NO	23.61	26.90	0.05741	0.05741
16	43 Total Tetra-Furans	1.16e3	2.32e6	0.762	NO	23.61	25.21	0.1251	0.1251
17	8 2,3,7,8-TCDF	1.98e5	2.32e6	0.746	NO	24.80	24.79	21.33	21.33
18	43 Total Tetra-Furans	7.56e2	2.32e6	0.809	NO	23.61	24.57	0.08127	0.08127

### Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura	2.90e3	0.00e0	1.480	NO	27.09	26.89	0.3176	0.3176

#### Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-2.qld

Last Altered: Wednesday, February 26, 2020 13:34:07 Pacific Standard Time Printed: Wednesday, February 26, 2020 13:46:56 Pacific Standard Time

#### Name: 200225R3\_2, Date: 25-Feb-2020, Time: 13:54:46, ID: B0B0195-BS1 OPR 10, Description: OPR

### **Penta-Furans**

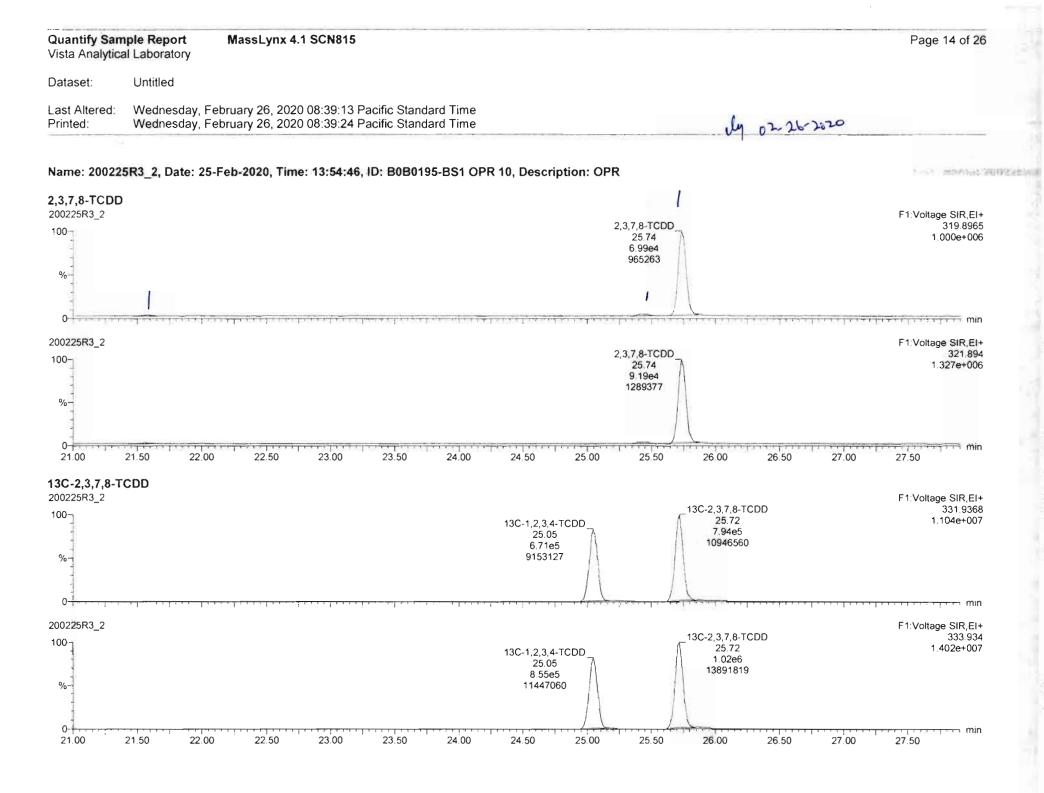
	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	0.00e0	0.00e0	1.233	YES	29.27	29.80	0.0000	1.091
2	9 1,2,3,7,8-PeCDF	9.16e5	2.04e6	1.557	NO	29.53	29.52	99.16	99.16
3	45 Total Penta-Furans	2.50e3	0.00e0	1.579	NO	29.27	29.34	0.2739	0.2739
4	45 Total Penta-Furans	1.40e3	0.00e0	1.328	NO	29.27	29.20	0.1530	0.1530
5	45 Total Penta-Furans	1.48e3	0.00e0	1.698	NO	29.27	29.11	0.1626	0.1626
6	45 Total Penta-Furans	5.91e3	0.00e0	1.740	NO	29.27	28.52	0.6483	0.6483
7	45 Total Penta-Furans	0.00e0	0.00e0	2.131	YES	29.27	28.36	0.0000	0.1491
8	45 Total Penta-Furans	5.82e3	0.00e0	1.395	NO	29.27	31.48	0.6380	0.6380
9	45 Total Penta-Furans	0.00e0	0.00e0	0.940	YES	29.27	30.85	0.0000	0.05082
10	10 2,3,4,7,8-PeCDF	9.40e5	1.99e6	1.552	NO	30.53	30.51	99.44	99.44

#### Hexa-Furans

9	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	5.84e5	1.24e6	1.207	NO	34.91	34.94	109.8	109.8
2	13 2,3,4,6,7,8-HxCDF	7.33e5	1.42e6	1.219	NO	34.06	34.04	114.8	114.8
3	12 1,2,3,6,7,8-HxCDF	7.86e5	1.58e6	1.218	NO	33.48	33.48	118.2	118.2
4	11 1,2,3,4,7,8-HxCDF	6.53e5	1.37e6	1.212	NO	33.34	33.36	110.6	110.6
5	46 Total Hexa-Furans	3.61e3	0.00e0	1.128	NO	33.56	32.35	0.5732	0.5732
6	46 Total Hexa-Furans	2.96e3	0.00e0	1.139	NO	33.56	32.19	0.4693	0.4693

#### **Hepta-Furans**

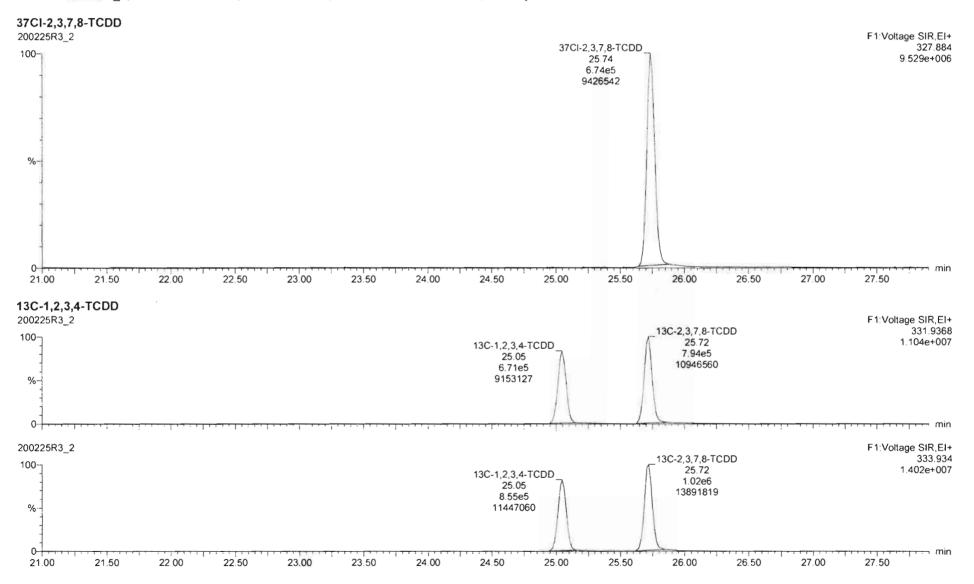
	# Name	Агеа	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	16 1,2,3,4,7,8,9-HpCDF	4.22e5	7.53e5	1.003	NO	38.72	38.74	114.4	114.4
2	47 Total Hepta-Furans	2.82e3	0.00e0	0.898	NO	37.83	37.25	0.7300	0.7300
3	15 1,2,3,4,6,7,8-HpCDF	5.06e5	1.06e6	1.012	NO	36.69	36.67	111.7	111.7



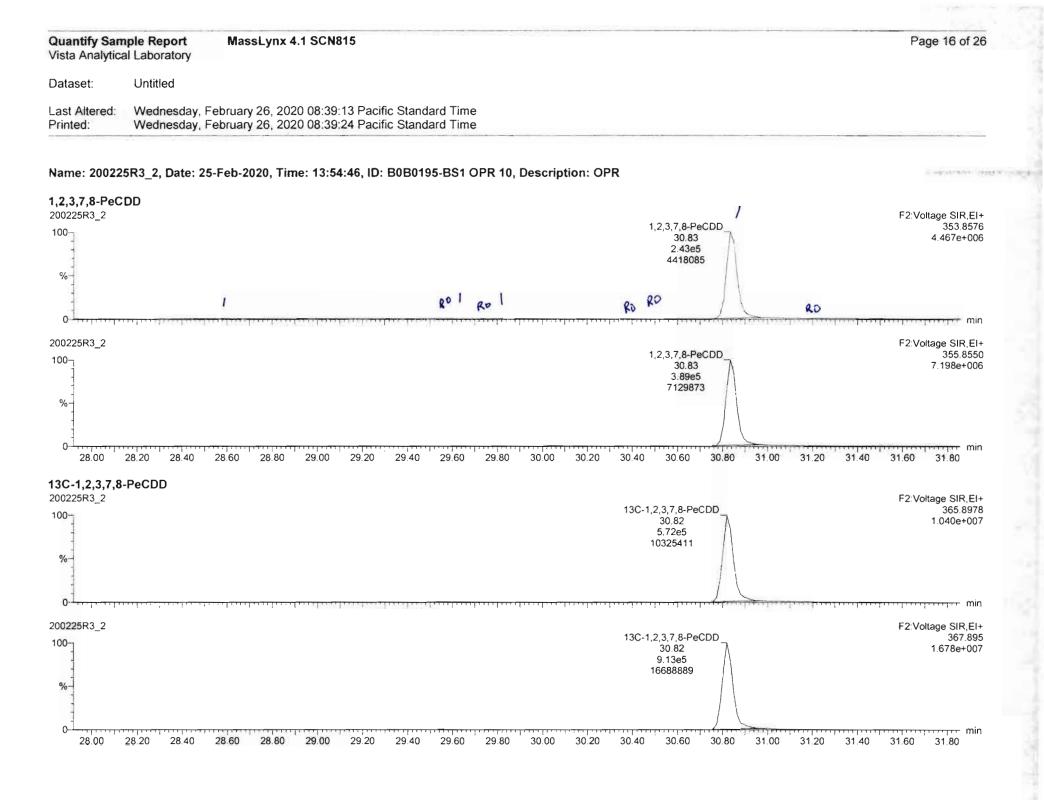
#### Targeti.yrx XS - 200725R3-2.qld \* - [Chromatogram] THE REAL File Edit View Display Processing Window Help - 8 X 200225R3 2+ E0E0195-BS1 OPE 10- OPE × s Nome Resp RA my RRF without Pred.RT RT Pred.R. RRT RRT Fail Conc. %Rec. DI EMPC 19 19 39 Total Tetra-Dioxina 0 9981 10.000 24.52 0.000 NO 19.20 0.0765 19.20 0 9723 10.000 29.96 0.000 NO 87 89 0.0982 88.63 40 40 Total Pente-Dioxins 0.000 NO 298.0 0.248 298.7 41 41 Total Hexa-Dioxins 0.9211 10.000 33.63 42 43 44 0.396 0.9231 10.000 37.64 0.000 NO 99.41 39.41 42 Total Hepta-Dioxins 0.000 NO 21.45 0.0919 22.44 43 Total Tetra-Furans 0.8020 10.000 23.61 0.000 NO 0.3176 0.0375 0.3176 44 1st Func, Penta-Furans 0.9074 10.000 27.09 0.145 NO 195.9 45 45 Total Penta-Eurans 0.9074 10.000 29.27 0.000 195.0 0.264 444.6 45 46 "utal Hexa-Furans 0.8982 10.000 33.56 0.000 NO 444.6 226.9 0.434 226.9 47 Tintel Henta-Furans 0.8511 10.000 37.83 0.000 NO 48 48 PFK1 49 49 PFK2 ×I 2 Name Pred RT RT m1 Resp m2 Resp 1º Ratio (Pred) RA NY BAPC Conc. 01 1 2.3.7.8-TCDD 25.75 25.74 7.098e4 9.404e4 0.770 0.75 NO 18.469 18.469 0.770 0.75 NO 0.24743 0.24743 39 Total Tetra-Dioxins 24.82 21.59 9.467e2 1.264e3 2 0.770 0.78 NO 0.47926 0.47926 3 39 Total Tetra-Dioxins 24.52 25.42 1.878e3 2.404e3 Total Tetra-Dioxins F1:Voltage SIR,EI+ 200225R3 2 25.42 319,8965 OPR 8080195-851 OPR 10 1878.35 6.158e+004 20583 Total Tetra-Dioxins;21.59;946.69;11412 25.97 26.06 22.58 24.79 24.93 25.08 25.17 22.50 23.24 23.53 23.79 23.94 24.16 24.63 22.25 22.34 10 200225R3 2 F1: Voltage SIR, El+ 321.894 OPR 8080195-881 OPR 10 Total Tetra-Dioxins 1.863e+005 Total Tetra-Dioxins 1007 25.44 21.56 2403.90 1284.12 % 21455 15883 04 m mi 200225R3\_2 F1:Voltage SIR EI+ 331.9368 OPR 8080195-851 OPR 10 1.104e+007 13C-2,3,7,8-TCDD;25,72;793571.38;10946560 100-25.05 %-0-1-F1:Voltage SIR,EI+ 200225R3\_2 OPR 8080195-851 OPR 10 333.934 1.402e+007 13C-2,3,7,8-TCDD;25,72;1015043.63;13891819 100 -25.05 % 0min min 21.60 21.80 22.00 22.20 22.40 22.60 22.80 23.00 23.20 23.40 23.60 23.80 24.00 24.20 24.40 24.60 24.80 25.00 25.20 25.40 25.60 25.80 26.00 26.20 21.40 200225R3 2 Ready

Quantify San Vista Analytica		Page 15 of 26
Dataset:	Untitled	
Last Altered:	Wednesday, February 26, 2020 08:39:13 Pacific Standard Time	
Printed:	Wednesday, February 26, 2020 08:39:24 Pacific Standard Time	

#### Name: 200225R3\_2, Date: 25-Feb-2020, Time: 13:54:46, ID: B0B0195-BS1 OPR 10, Description: OPR



1



#### TargetLynx XS - 200225R3-2.qld \* - [Chromatogram]

File Edit View Display Processing Window Help

# ★日本語傳習品(1) + 4: 5: - 14 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5: - 14: 5

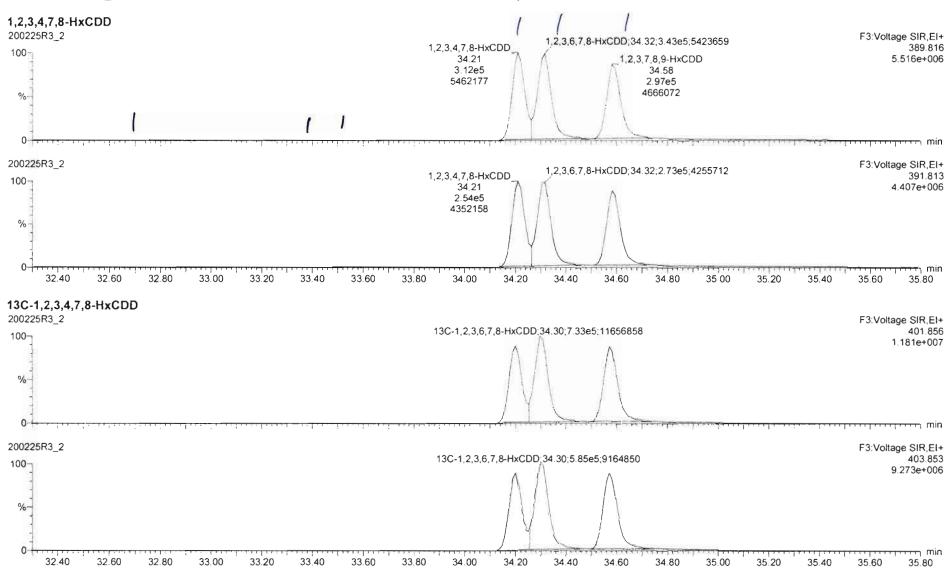
													20	02255	N3_2+B	BS1049 ().0P9	
	J Neme	Resp	RA	ny	RRF	withd	Pred.RT	RT	Pred R.	RRT	RRT Fall	Cone. 9	6Rec	DL	EMPC		L'AL A
39	39 Total Tetra-Dioxins		1		0.9881	10.000	24.62	-	0.000	0	NO	19.20		0.0765	19.20		
40	40 Totel Pente-Dicodns	- Andrews	1221		0.9723	10.000			0.000		NO	91.25	11	0.0982			
41	41 Total Hexa-Dioxins				0.9211	10.000	33.63		0.000	0	NO	298.0		0.248			
42	42 Total Hepta-Dioxins			_	0.9231	-			0.000	-	NO	99.41		0.396			
43	43 Total Tetra-Furans				0.8020	_			0.000		NO	21.45		0.0919			
44	44 1st Func. Penta-Furans	_		-	0.9074				0.000		NO	0.3176	-		0.3176		1 a. 37 a
45	45 Total Penta-Furans	-	-	-	0.9074				0.000	_	NO	195.0	-	D.145			
45	45 Total Hexa-Furans	_	-	-	0.8982				0.000		NO NO	444.6 226.9		0.264		전 같은 사람이 집에 가지 않는 것을 수가서 한 것을 가지 않는 것을 하는 것을 수 있다.	
47	47 Total Hepta-Furans			1	0.8511	10.000	3/.83	1	0.000	1	, NU	220.9		0.434	220,9		
-	# Name	Pred.RT RT	and income	Resp			tio (Pred)	RA			Conc.		200	10	200		
1	40 Total Penta-Dioxins	29.96 28.5	_	17082	1.51583	_	0.630	_	NO 0	_	0.34108					이 그는 것에서 잘 잘 하는 것이 같아? 것이 집에서 바람이 많이 가지 않는 것이 같아요. 것이 같아요.	
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5	40 Total Penta-Dioxins 40 Total Penta-Dioxins	29.96 29.8 29.96 30.3	_	515e2 376e2	5.098e2		0.630				0.00000						
7	40 Total Penta-Dioxins	29.96 30.5	_	760e2	2.563e2	_	0.630	_			0.00000						
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40         40         Total Pente-Dioxins         0.9723         10.000         29.96         0.000         NO         91.25         0.00           41         41         Total Hexe-Dioxins         0.9211         10.000         33.63         0.000         NO         91.25         0.00           42         42         Total Hexe-Dioxins         0.9211         10.000         37.64         0.000         NO         398.41         0.00           43         43         Total Text-Furants         0.9020         10.000         27.64         0.000         NO         29.41         0.00           43         44         164 Text-Furants         0.9020         10.000         27.09         0.000         NO         0.21.47         0.00           45         45         Total Pente-Furants         0.9074         10.000         29.27         0.000         NO         185.0         0.00           48         46         Total Hexe-Furants         0.9374         10.000         33.56         0.000         NO         444.6         0	200	1	Nams	Resp	RA	nły	RRF	withol	Pred.RT	RT	Pred R.	RRT	RRTFal	Conc.	%Rec	DL	BMPC
41         41         Totel Hexa-Dicoths         0.9211         10.000         33.63         0.000         NO         308.8         0           42         42         Totel Hexa-Dicoths         0.9231         10.000         37.64         0.000         NO         99.41         0           43         43         Totel Hexa-Dicoths         0.9231         10.000         37.64         0.000         NO         99.41         0           43         43         Totel Hexa-Dicoths         0.9202         10.000         23.61         0.000         NO         99.41         0           43         43         Totel Tetra-Furans         0.9074         10.000         27.09         0.000         NO         0.3176         0.00           45         45         Totel Penta-Furans         0.9074         10.000         29.27         0.000         NO         195.0         0           48         46         Totel Hexa-Furans         0.9892         10.000         33.56         0.000         NO         444.8         0	39	39	Total Tetra-Dioxins				0.9881	10.000	24.62		0.000		NO	19.20		0.0765	19.20
42         42         Totel Hepts-Dixolnes         0.9231         10.000         37.64         0.000         NO         99.41         0           43         43         Totel Tetra-Furnan         0.9020         10.000         23.61         0.000         NO         99.41         0           44         1st Func. Penta-Furans         0.9074         10.000         27.09         0.000         NO         0.3176         0.00           45         45         Total Penta-Furans         0.9074         10.000         29.27         0.000         NO         195.0         0           48         46         Total Hexe-Furans         0.8982         10.000         33.56         0.000         NO         444.8         0	40	40	Total Penta-Dioxins			1	0.9723	10.000	29.96		0.000		NO	91.25		0,0982	91.96
43         43         Total Tetra-Funans         0.8020         10.000         23.51         0.000         NO         22.47         0.00           44         44         1st Func. Penta-Funans         0.9074         10.000         27.09         0.000         NO         0.3176         0.0           45         45         Total Penta-Funans         0.9074         10.000         29.27         0.000         NO         195.0         0           48         46         Total Hexa-Furans         0.8982         10.000         33.56         0.000         NO         444.8         0	41	41	Total Hexa-Dioxins				0.9211	10.000	33.63		0.000		NO	308.8	1992	0.248	308.8
44         44         1st Func. Pertas-Furans         0.9074         10.000         27.09         0.000         NO         0.3176         0.0           45         45         Total Penta-Furans         0.9074         10.000         29.27         0.000         NO         195.0         0           46         46         Total Hexa-Furans         0.9974         10.000         33.56         0.000         NO         195.0         0	42	42	Total Hepta-Dioxins				0.9231	10.000	37.64		0.000		NO	99.41		0.396	99.41
45         45         Total Pentis-Furans         0.9074         10.000         29.27         0.000         NO         185.0         0           48         46         Total Hexa-Furans         0.8962         10.000         33.56         0.000         NO         444.6         0	43	43	Total Tetra-Furans			100	0.8020	10.000	23.61	1.14	0.000	-	NO	22.47	30.0	0.0919	23.45
48 46 Total Hexa-Furans 0.8992 10.000 33.56 0.000 NO 444.6 0	44	44	1st Func. Penta-Furans		1		0.9074	10.000	27.09		0.000		NO	0.3176		0.0375	0.3176
	45	45	Total Penta-Furans				0.9074	10.000	29.27		0.000		NO	195.0		0.145	195.9
47 Totel Heats-Furans 0.8511 10.000 37.83 0.000 NO 226.9 0	48	46	Total Hexa-Furans				0.8982	10.000	33.56		0.000		NO	444.6		0.264	444.6
	47	47	Total Hepta-Furans				0.8511	10.000	37.83		0.000		NO	226.9		0.434	226.9

		Nama	Pred.RT	RI	m1 Resp	m2 Rosp	1º Ratio (Pred)	RA	ny	BAPC	Conc.
1	43	Total Tetra-Furans	23.61	19.51	4.582e2	5.801e2	0.770	0.79	NO	0.11160	0.11160
2	43	Total Tetra-Furans	23.61	20.03	3.140e2	3.944e2	0.770	0.80	NO	0.076138	0.07613
3	43	Total Tetra-Furans	23.61	20.63	2.370e2	3.944e2	0.770	0.60	YES	0.058559	0.00000
4	43	Total Tetre-Furans	23.61	21.17	1.45283	1.413e3	0.770	1.03	YES	0.26875	0.00000
5	43	Total Tetra-Furans	23.61	21.56	9.630e2	1.190e3	0.770	0.81	NO	0.23135	0 00000
6	43	Total Tetra-Furans	23.61	22.01	4.708e2	5.135e2	0.770	0.92	YES	0.097581	0.00000
7	43	Total Tetra-Furans	23.61	22.38	4.410e2	3.616e2	0.770	1.22	YES	0.068785	0.00000
8	43	Total Tetra-Furans	23.61	22.83	3.891e2	4.070e2	0.770	0.96	YES	0.077422	0.00000
9	43	Total Tetra-Furans	23.61	23.00	3.897e2	2.653e2	0.770	1.47	YES	0.050469	0.00000
10	43	Total Tetra-Furans	23.51	23.15	6.363e2	7.067e2	0.770	0.90	YES	0.13444	0.00000
11	43	Total Tetra-Furans	23.61	23.30	1,185e3	1.593e3	0.770	0.74	NO	0.29873	0.29873
12	43	Total Tetra-Furans	23.51	23.82	1.124e3	1.310e3	0.770	0.86	NO	0.26167	0.26167
13	43	Total Tetra-Furans	23.61	24.12	2.104e2	3.052e2	0.770	0.69	NO	0.055422	0.05542
14	43	Total Tetra-Furans	23.61	24.36	2.844e2	3.269e2	0.770	0.87	NO	0.065711	0.06571
15	43	Total Tetra-Furans	23.61	24.57	3.383e2	4.179e2	0.770	0.81	NO	0.081275	0.08127
15	8	2,3,7,8-TCDF	24.80	24.79	8.48204	1.137e5	0.770	0.75	NO	21.333	21.333
17	43	Total Tetra-Furans	23.61	25.21	5.03482	6.605e2	0.770	0.76	NO	0.12509	0.12509
18	43	Total Tetra-Furans	23.81	26.90	2.41982	2.923e2	0.770	0.83	NO	0.057412	0.05741

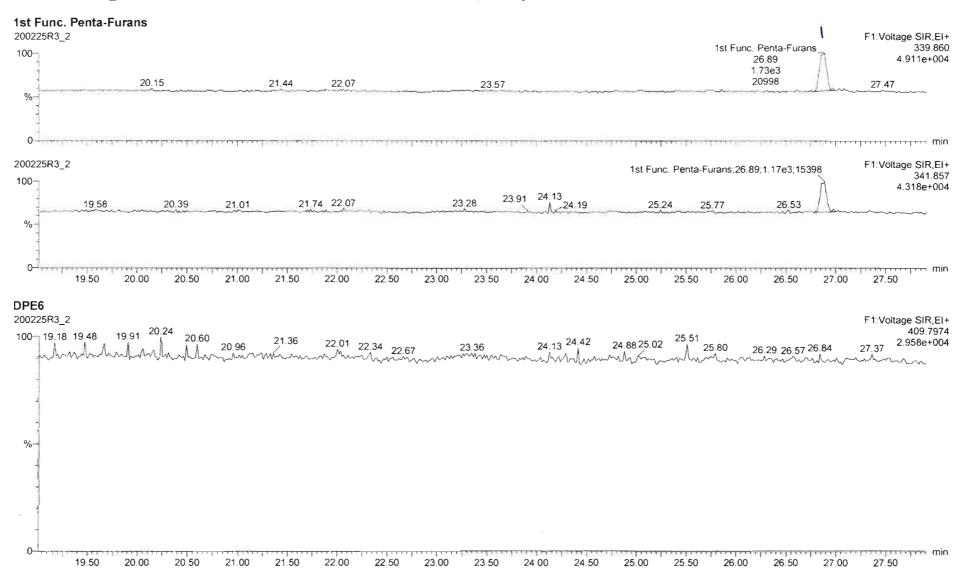
OPR B090195-BS1 OPR 10       Total Tetra-Furans       Total Tetra-Furans       Total Tetra-Furans       Total Tetra-Furans       Total Tetra-Furans       23,15       23,30       23,82       24,79       24,79       7,664e+00         20,63       1412,70       1188,54       513,46       706,67       1593,04       1310,14       113668,52       113666,52       1130668,52       1410992       25,42,25,51       25,78       Total Tetra-Furans;26,99;292,30;4628         20       6       14122       10979       5684       22,62       8940       13532       15287       1410992       1410992       25,42,25,51       25,78       Total Tetra-Furans;26,99;292,30;4628         20       20       20       20       8940       13532       15287       1410992       25,42,25,51       25,78       Total Tetra-Furans;26,99;292,30;4628         20       20       20       20       8940       13532       15287       1410992       1410992       25,42,25,51       25,78       Total Tetra-Furans;26,99;292,30;4628         20       20       20       20       141092       1410992       1410992       1410992       25,42       25,78       Total Tetra-Furans;26,99;292,30;4628       35,941       35,941       35,941       35,941       35,941	200225R3_2 OPR B0B0195-BS1 OPR 10 Total Tetra-Furans;19.51;458.17;5055 34	<b>QO</b> Total Tetra-Furans 20.63 237.02 3523	Total Tetra-Furans 21.17 1451.75 10854	Total Tetra-Furan 21.56 962.95 7509	IS Total Tetra-Furans 22.38 441.04 6696	Ro         RO         I           Total Tetra-Furans         Total Tetra-Furans         23.30           28.93         23.30           389.11         1186.36           6500         9852	Total Tetra Furans 23.82 1124.46 14930	Tolal Tetra-Furans ( 24.57 338,27 5416	2,3,7,8-TCDF 24,78 84817.70 1078736 25,41 25,41	F1.Voltage SIR,EI+ 303.9016 6.220e+004 25.72 25.81 Total Tetra-Furans;26.90;241.86;4505 27.02 min
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0 28.00 28 C-1,2,3,7,8-P 0225R3_2		28.60	28.80						8-PeCDF 0 7	30.60	30.80	31.00	31.20	31.40	31.60 31.80 F2:Voltage SIR,EI+ 351.900 2.154e+007
0 28.00 28.00 28 <b>C-1,2,3,7,8-P</b> 0225R3_2		28.60						13C-2,3,4,7, 30.5 1.22€ 21404	8-PeCDF 0 26 122	30.60	30.80	31.00	31.20	31.40	31.60 31.80 F2:Voltage SIR,EI+ 351.900 2.154e+007
0 28.00 28.00 28 0225R3_2 00 %		28.60		13C	:-1,2,3,7,8-P		6e6;20612176	13C-2,3,4,7, 30.5 1.22€	8-PeCDF 0 122 8-PeCDF 0 e5	30.60	30.80	31.00	31.20	31.40	31.60 31.80 F2:Voltage SIR,EI+ 351.900 2.154e+007
0 28.00 26 <b>C-1,2,3,7,8-P</b> 0225R3_2 0 0 0 0 0 0 0 0 0 0 0 0 0		•••••	28.80	13C 	:-1,2,3,7,8-Pi 	PeCDF;29.51;1.2	:6e6;20612176 	13C-2,3,4,7, 30.5 1.22¢ 21404 13C-2,3,4,7, 30.5 7 63¢	8-PeCDF 0 122 8-PeCDF 0 e5		30.80 ,	31.00 	31.20	31.40	31.60 31.80 F2:Voltage SIR,EI+ 351.900 2.154e+007 
0 28.00 28 C-1,2,3,7,8-P 0225R3_2 0 0 0 0 0 225R3_2 0 0 225R3_2 0 0 28.00 28 0 28.00 28 0 0 0 0 28.00 28 0 0 0 0 0 0 0 0 0 0 0 0 0	PeCDF		····	13C 	:-1,2,3,7,8-Pi 	PeCDF;29.51;1.2	:6e6;20612176 	13C-2,3,4,7, 30.5 1.22¢ 21404 13C-2,3,4,7, 30.5 7 63¢ 13874;	8-PeCDF 0 122 1			····			31.60 31.80 F2:Voltage SIR,EI+ 351.900 2.154e+007  min F2:Voltage SIR,EI+ 353.897 1.402e+007
0 28.00 26 <b>C-1,2,3,7,8-P</b> 0225R3_2 0 0 0 0 0 0 0 0 0 0 0 0 0	PeCDF		····	13C 	:-1,2,3,7,8-Pi 	PeCDF;29.51;1.2	:6e6;20612176 	13C-2,3,4,7, 30.5 1.22¢ 21404 13C-2,3,4,7, 30.5 7 63¢ 13874;	8-PeCDF 0 122 1			····			31.60 31.80 F2:Voltage SIR,EI+ 351.900 2.154e+007  min F2:Voltage SIR,EI+ 353.897 1.402e+007

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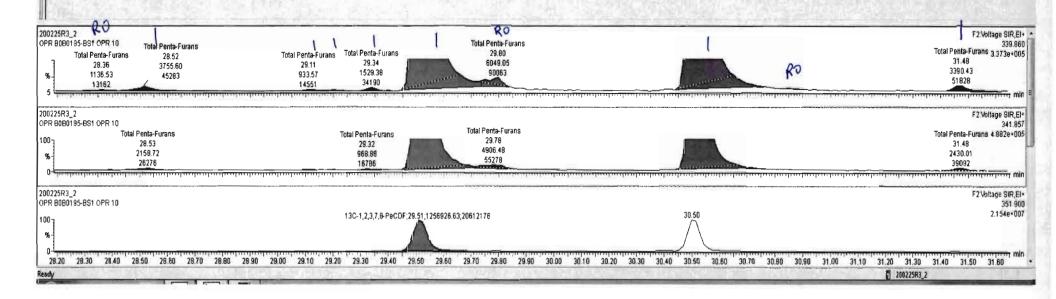
#### TargetLynx XS - 200225R3-2.gld \* - [Chromatogram]

File Edit View Display Processing Window Help

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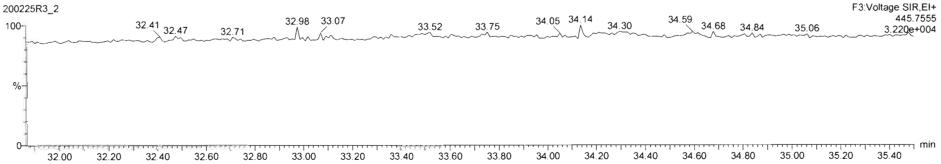
	19	Name	Resp	RA	nły	RRF	wtwo!	Pred.RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	39	Total Tetra-Dioxins		_		0.9881	10.000	24.52		0.000		NO	19.20		0.0765	19.20
40	40	Total Penta-Dioxins				0.9723	10.000	29.96		0.000		NO	91.25		0.0982	91.96
41	41	Total Hexa-Dioxins				0.9211	10.000	33.63		0.000		NO	308.8		0.248	308.8
42	42	Total Hepta-Dioxins				0.9231	10.000	37.64		0.000		NO	99.41		0.396	99.41
43	43	Total Tetra-Furans				0.8020	10.000	23.61		0.000		NO	22.47		0.0919	23.45
44	44	1st Func. Penta-Furans				0.9074	10.000	27.09		0.000		NO	0.3176		0.0375	0.3176
45	45	Total Penta-Furens				0.9074	10.000	29.27		0.000		NO	200.5		0.145	201.8
48	46	Total Hexa-Furans				0.8982	10.000	33.56		0.000		NO	444.6		0.264	444.6
47	47	Total Hepta-Furans				0.8511	10,000	37.83		0.000	_	NO	226.9		0.434	226.9

	1	Neme	Pred.RT	RT	mi Resp	m2 Resp	1º Retio (Pred)	RA	ny	BMPC	Conc.
1	45	Total Panta-Furans	29.27	28.36	1.137e3	5.334e2	1.550	2.13	YES	0.14909	0.00000
2	45	Total Penta-Furans	29.27	28.52	3.756e3	2.159e3	1.550	1.74	NO	0.64833	0.64833
3	45	Total Penta-Furans	29.27	29.11	9.336e2	5.499e2	1.550	1.70	NO	0.16262	0.16262
4	45	Total Penta-Furans	29.27	29.20	7,964e2	5.995e2	1.550	1.33	NO	0.15302	0.15302
5	45	Total Penta-Furans	29.27	29.34	1.529e3	9.689e2	1.550	1.58	NO	0.27386	0.27386
8	9	1,2,3,7,8-PeCDF	29.53	29.52	5.576e5	3.580e5	1.550	1.56	NO	99.164	99.164
7	45	Total Penta-Furans	29.27	29.80	6.049e3	4.906e3	1.550	1.23	YES	1.0909	0.00000
8	10	2,3,4,7,8-PeCDF	30.53	30.51	5.715e5	3.683e5	1.550	1.55	NO	99.436	99.436
9	45	Total Penta-Furans	29.27	30.85	2.818e2	2.998e2	1.550	0.94	YES	0.050823	0.00000
10	45	Total Penta-Furans	29.27	31.48	3.390e3	2.430e3	1.550	1.40	NO	0.63804	0.63804



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lame: 20022	5R3_2, Date: 25-Feb-2020, Time: 13:54:46, ID: B0B0195-BS1 OPR 10, Descript	ion: OPR	
,2,3,4,7,8-Hx 200225R3_2 100 %(	CDF 1.2,3,6,7,8-HxCDF;33.48;4.13e5;7155905	2,3,4,6,7,8-HxCDF;34.04;3.90e5;6627221 1,2,3,7,8,9-HxCDF;34.9	F3:Voltage SIR,EI+ 373.821 94;3.11e5;4581762 7.269e+006
00225R3_2 % 0 0 	1,2,3,6,7,8-HxCDF;33,48;3,59e5;5858448 32,20 32,40 32,60 32,80 33,00 33,20 33,40 33,60 33,80	2,3,4,6,7,8-HxCDF;34.04;3.22e5;5515293 1,2,3,7,8,9-HxCDF;34.9 34.00 34.20 34.40 34.60 34.80 3	F3:Voltage SIR,EI- 375.818 5.902e+006
<b>3C-1,2,3,4,7</b> , 00225R3_2	8-HxCDF 13C-1,2,3,6,7,8-HxCDF;33.47;5.42e5;8842762	13C-2,3,4,6,7,8-HxCDF;34.03;4.87e5;8174057	F3:Voltage SIR,EI- 383.86 8.966e+000
200225R3_2 100	13C-1,2,3,6,7,8-HxCDF;33.47;1.04e6;17497136		F3:Voltage SIR,EI- 385.86 1.775e+00 
DPE3 200225R3_2			F3:Voltage SIR,EI+



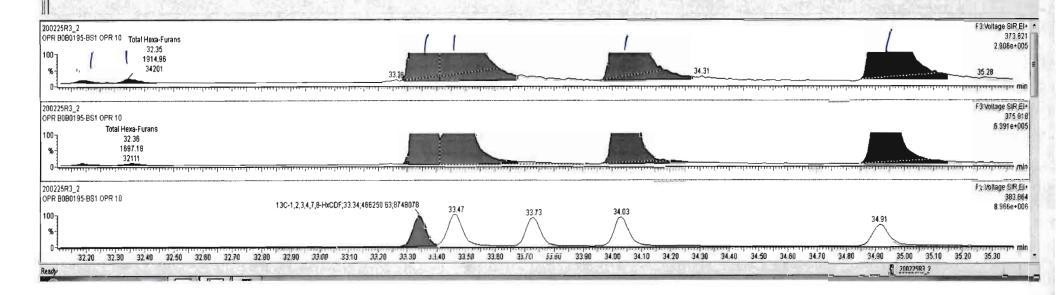
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File Edit View Display Processing Window Help

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	1	Name	Resp	RA	ny	RRF	Without	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
30	39	Total Tetra-Dioxins				0.9881	10.000	24.62		0.000		NO	19.20		0.0765	19.20
40	40	Total Penla-Dioxins		1		0.9723	10.000	29.96	11-1	0.000		NO	91.25	-	0.0982	91.96
41	41	Total Hexe-Dioxins				0.9211	10.000	33.63	-	0.000	_	NO	308.8	-	0.248	308.8
42	42	Total Hepta-Dioxins	-	· · · · ·		0.9231	10.000	37.64	-	0.000		NO	99.41		0.396	99.41
43	43	Total Tetre-Furans				0.8020	10.000	23.61		0.000		NO	22.47		0.0919	23.45
44	44	1st Func. Penta-Furans				0.9074	10.000	27.09	1	0.000	_	NO	0.3175	0.10	0.0375	0.3178
45	45	Total Panta-Furans				0.9074	10.000	29.27		0.000		NO	200.5		0.145	201.8
46	48	Total Hexa-Furans	12 C. C.			0.8982	10.000	33.56	-	0.000	1000	NO	454.4		0.264	454.6
47	47	Total Hepta-Furans		-		0.8511	10,000	37.83		0.000		NO	226.9		0.434	226.9

	1	Name	Pred.RT	RT	mt Resp	m2 Resp	1º Ratio (Pred)	RA	ny	BMPC	Conc.
1	46	Total Hexa-Furans	33.56	32.19	1.575e3	1.382e3	1.240	1.14	NO	0.46931	0.46931
2	45	Total Hexa-Furans	33.56	32.35	1.915e3	1.697e3	1.240	1.13	NO	0.57320	0.57320
3	11	1,2,3,4,7,8-HxCDF	33.34	33.36	3.579e5	2.951e5	1.240	1.21	NO	110.56	110.56
4	12	1,2,3,6,7,8-HxCDF	33.48	33.48	4.31485	3.543e5	1.240	1.22	NO	118.17	118.17
5	13	2,3,4,6,7,8-HxCDF	34.06	34.04	4.029e5	3.306e5	1.240	1.22	NO	114.78	114.78
5	14	1,2,3,7,8,9-HxCDF	34.91	34.94	3.193e5	2.644e5	1.240	1.21	NO	109.81	109.81



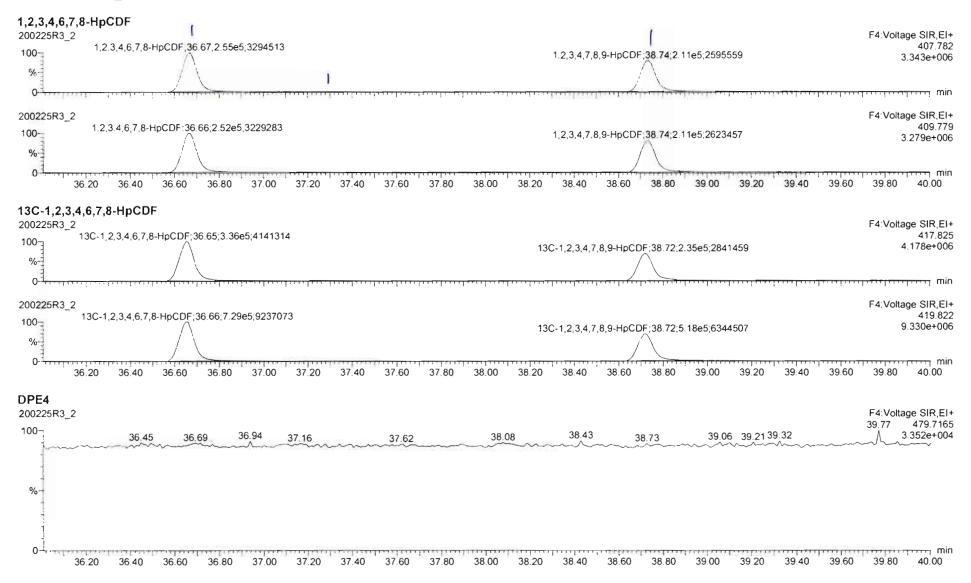
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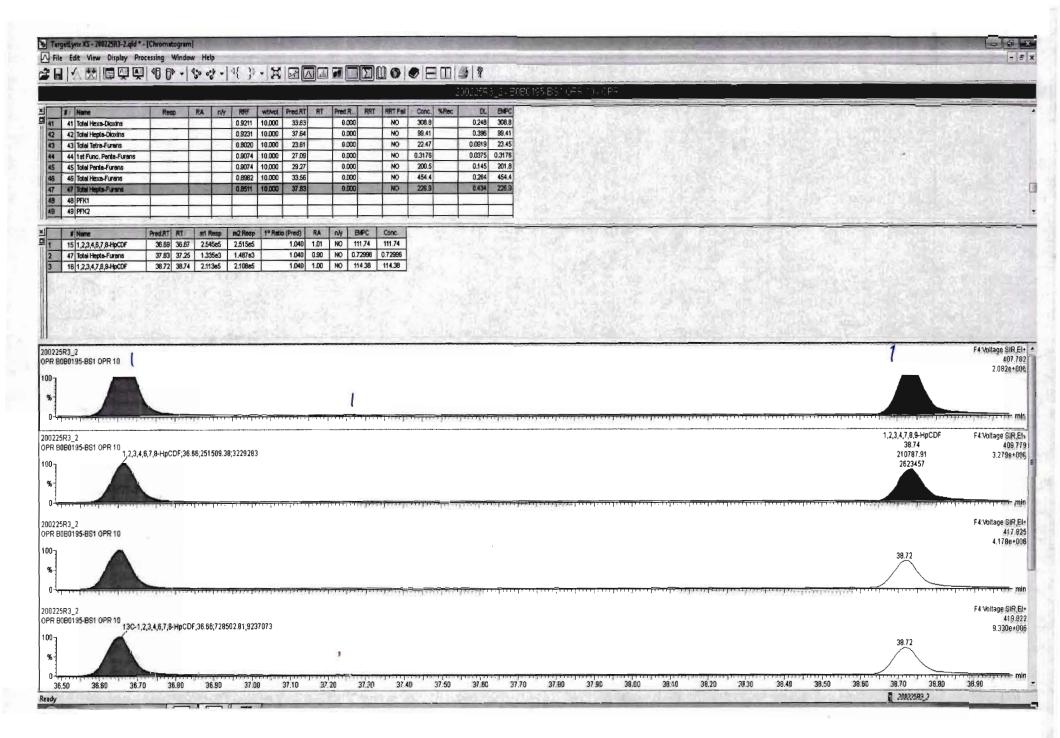
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#### b TargetLynx XS - 200225R3-2.gld \* - [Chromatogram] File Edit View Display Processing Window Help - E X 00225R3 2-8080195-851 OFR 10-OFR DL MPC RA NAY Pred.R. RRT RRT Fail Conc. %Rec × S Name Resp RRF WINOL Pred.RT RT 41 41 Total Hexa-Dioxins 308.8 0.248 308.8 0.9211 10.000 33.83 0.000 NO 0.9231 10.000 37.64 0.000 NO 99.41 0.396 99.41 42 42 Total Hepta-Dioxins 22.47 0.0919 23.45 0.8020 10.000 23.61 0.000 NO 43 43 Total Tetra-Furans 0.0375 0.3176 0.000 NO 0.3176 44 44 1st Func. Penta-Furans 0.9074 10.000 27.09 0.000 NO 200.5 0.145 201.8 45 45 Total Pente-Furans 0.9074 10.000 29.27 48 45 Total Hexa-Furans 33.56 0.000 NO 454.4 0.264 454.4 0.8982 10.000 0.434 226.9 47 47 Total Hepta-Furans 0.8511 10.000 37.83 0.000 NO 226.9 48 48 PFK1 49 PFK2 49 Pred.RT RT m1 Resp m2 Resp 1º Ratio (Pred) RA n.V BMPC Conc. # Name 1.240 1.14 NO 0.46931 0.46931 33.56 32.19 1.575e3 46 Total Hexa-Furans 1.382e3 1.240 1.13 NO 0.57320 0.57320 1,697e3 45 Total Hexa-Furans 33.56 32.35 1.915e3 1.240 1.21 NO 110.55 110.56 11 1,2,3,4,7,8-HxCDF 33.34 33.36 3.579e5 2.951e5 1.240 1.22 NO 118.17 12 1,2,3,6,7,8-HxCDF 33.48 33.48 4.314e5 3.543ø5 118.17 1.240 1.22 NO 114.78 13 3,4,6,7,8-HxCDF 34.06 34.04 4.029e5 3.306e5 114.78 14 1 2 3.7.8.9-HxCDF 34.91 34.94 3.193e5 2.544e5 1.240 1.21 NO 109.81 109.81 F3:Vollage SIR,EI+ \* 200225R3\_2 OPR 8080195-8\$1 OPR 10 373.82 5.243e+00k 1,2,3,7,8,9-HxCDF;34.94;319256.25;4598028 100 -%-٦ mic mic F3.Voltage SIR,EI+ 200225R3\_2 1.2.3.7.8.9-HxCDF 375.818 OPR 8080195-851 OPR 10 34.94 5.902e+006 1,2,3,6,7,8-HxCDF;33,48;354349.19;5856704 2,3,4,6,7,8-HxCDF;34.04;330579.94;5532461 264433.06 100 -3767915 % min 200225R3\_2 F3:Voltage SIR,EI+ 383.864 OPR 8080195-8\$1 OPR 10 13C-1,2,3,4,7,8-HxCDF;33.34;466250.63;8748078 8.966e+006 33.47 34.03 33,73 100-24 0 %п min min F3:Voltage SIR,EI+ 200225R3\_2 OPR 8080195-861 OPR 10 385.861 13C-1,2,3,4,7,8-HxCDF;33.34;903547,19;16683053 1.775e+007 33.47 34.03 33.73 100-34.91 % 32.70 3.2.80 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 35.00 35.10 35.20 35.30 32.20 32.30 32.40 32.50 32.60 20022583 2 Custom Reporting: Select reports to generate

Quantify Sam Vista Analytica		Page 24 of 26
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#### Name: 200225R3\_2, Date: 25-Feb-2020, Time: 13:54:46, ID: B0B0195-BS1 OPR 10, Description: OPR





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	١													55.1/2.02	
	OCDF;41.38;4.13e	5;4692524													441.7 733e+0
<u> </u>			· · · · · · · · · · · ·	<del></del>				<u>, ,                                  </u>		<del>, ,</del>		<u></u>		· · · · · · ·	n
	OCDF;41.37;4 79e	5;5383602												F5:Voltag 5.	je SIR,E 443.7 419 <del>e+</del> 0
40.50 40.75	41.00 41.25 4	1.50 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
	13C-OCDF;41.36;9.23	e5;10748682												F5:Voltag 1.	e SIR,I 453.78 086e+0
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	13C-OCDF;41.36;1.06	e6;12611346												F5:Voltag 1.	e SIR, 455. 271e+0
40.50 40.75	41.00 41.25 4	1.50 41.75	42.00	42.25	42.50	42.75	43.00	43.25	43.50	43.75	44.00	44.25	44.50	44.75	45.0
														F5:Voltag	e SIR
	- - - 40.50 - - - - - - - - - - - - - - - - - - -	OCDF;41.38;4.13e OCDF;41.37;4.79e 40.50 40.75 41.00 41.25 4 13C-OCDF;41.36;9.23e 13C-OCDF;41.36;1.06e	OCDF;41.38;4.13e5;4692524 OCDF;41.37;4.79e5;5383602 40.50 40.75 41.00 41.25 41.50 41.75 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.38;4.13e5;4692524 OCDF;41.37;4 79e5;5383602 40.50 40.75 41.00 41.25 41.50 41.75 42.00 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.38;4.13e5;4692524 OCDF;41.37;4.79e5;5383602 40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.38;4.13e5;4692524 OCDF;41.37;4.79e5;5383602 40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.38;4.13e5;4692524 OCDF;41.37;4.79e5;5383602 40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.37:4 79e5;5383602 40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.38;4.13e5;4692524 OCDF;41.37;4.79e5;5383602 40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.38;4.13e5;4692524 OCDF;41.37;4.79e5;5383602 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 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.38;4.13e5;4692524 OCDF;41.37;4.79e5;5383602 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 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.38;4,13e5,4692524 OCDF;41.37,4 79e5;5383602 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 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;1.06e6;12611346	OCDF;41.38;4.13e5;4692524 OCDF;41.37;4.79e5;5383602 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 13C-OCDF;41.36;9.23e5;10748682 13C-OCDF;41.36;9.23e5;10748682	OCDF;41.38;4 13e5;4692524 OCDF;41.37;4 79e5;5383602 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 13C-OCDF;41:36;9:23e5;10748682 13C-OCDF;41:36:1.06e6;12611346	OCDF;41.38;4.13e5;4692524       F5.Voltag         OCDF;41.37;4.79e5;5383602       F5.Voltag         40:50       40.75       41.00       41.25       42.00       42.25       42.50       42.75       43.00       43.25       43.50       43.75       44.00       44.25       44.50       44.75         13C-OCDF;41.36;9.23e5;10748682       1       F5.Voltag       F5.Voltag       F5.Voltag       F5.Voltag         13C-OCDF;41.36;1.06e6;12611346       1       F5.Voltag       1       F5.Voltag       1

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0225R3_2, Date: 25-Feb-2020, Time: 13:54:46, ID: B0B0195-BS1 OPR 10, Description: OPR	
19.34;1.14e5;1197412 21.38;6.48e3,138024 21.60 22.26;6.71e3;167118 23.97;5.61e3;154907 24.52;7.90e3;158232 25.54;1.52e4;226242 26.53;4.00e3;247175 27	1:Voltage SIR,EI+ 7.64 316.9824 2.762ê+006
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 2	
F2: 28.36;2.68e5;769323 28.61 28.79 28.94 29.05 29.25 29.61;6.11e3;230577 29.90 29.98 30.16 30.4530.48 30.79 30.90 30.97 31.12 31.29 31.41 31.58	2:Voltage SIR,EI+ 3 366.9792 2.958e+006
28.20 28.40 28.60 28.80 29.00 29.20 29.40 29.60 29.80 30.00 30.20 30.40 30.60 30.80 31.00 31.20 31.40 31.60	min 30 31.80
	0 01.00
F3 32.62;2.19e6;1666556 32.81 32.93 33.16 33.36 33.57 33.64 33.81 34.08 34.26 34.49 34.64 34.87 35.04 35.12 35.31 35.54 35.70	3:Voltage SIR,EI+ 380.9760 1.248e+007
8	
00 32.25 32.50 32.75 33.00 33.25 33.50 33.75 34.00 34.25 34.50 34.75 35.00 35.25 35.50 35.7	.75 36.00
	4: Voltage SIR, EI+
39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086	2 430.9728 9.249e+006
39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.30 39.55 F4	9.2490+006
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<u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e6;738086</u> <u>39.00;7.00e5</u> <u>39.00;7.00e5</u> <u>39.00;7.00e5</u> <u>39.00;7.00e5</u> <u>39.</u>	5.2400.000
39.00; 7.00e6; 738086       39.00; 7.00e6; 738086       39.00; 7.00e6; 738086       39.00; 7.00e6; 738086       39.30       39.33, 20       39.70, 39.82         7	9.80 40.00 5:Voltage SIR,EI+
39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.00e6;738086 39.00;7.0	5:Voltage SIR,EI+

 Quantify Sample Summary Report
 MassLynx 4.1 SCN815

 Vista Analytical Laboratory
 MassLynx 4.1 SCN815

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-7.qld

Last Altered:	Wednesday, February 26, 2020 10:32:24 Pacific Standard Time
Printed:	Wednesday, February 26, 2020 10:33:05 Pacific Standard Time

GPB 02/26/2020 C7 02/27/2020

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200225R3\_7, Date: 25-Feb-2020, Time: 17:50:55, ID: 2000329-01RE1 PDI-100SC-J-06-07-190926 14.43, Description: PDI-100SC-J-06-07-190926

100	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.988	10.052 •	25.751		1.001				0.0504	
2	2 1,2,3,7,8-PeCDD			NO	0.972	10.052	30.842		1.001				0.0548	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.052	34.210		1.000				0.0759	
4	4 1,2,3,6,7,8-HxCDD			NO	0.921	10.052	34.296		1.000				0.0756	
5	5 1,2,3,7,8,9-HxCDD	8.07e2	1.34	NO	0.918	10.052	34.608	34.57	1.001	1.000	0.11478		0.0855	0.115
6	6 1,2,3,4,6,7,8-HpCDD	4.94e3	1.12	NO	0.923	10.052	38.088	38.10	1.000	1.001	0.83229		0.127	0.832
7	7 OCDD	4.83e4	0.89	NO	0.975	10.052	41.176	41.20	1.000	1.001	7.9402		0.111	7.94
8	8 2,3,7,8-TCDF			NO	0.802	10.052	24.802		1.001				0.0392	
9	9 1,2,3,7,8-PeCDF			NO	0.907	10.052	29.528		1.001				0.0341	
10	10 2,3,4,7,8-PeCDF			NO	0.952	10.052	30.530		1.001				0.0327	
11	11 1,2,3,4,7,8-HxCDF	4.66e2	1.02	YES	0.862	10.052	33.338	33.36	1.000	1.001	0.0639999		0.0235	0.0584
12	12 1,2,3,6,7,8-HxCDF			NO	0.841	10.052	33.465		1.000		-		0.0409	
13	13 2,3,4,6,7,8-HxCDF			NO	0.898	10.052	34.064		1.001				0.0442	
14	14 1,2,3,7,8,9-HxCDF	3.49e2	1.06	NO	0.858	10.052	34.914	34.91	1.000	1.000	0.053903		0.0335	0.0539
15	15 1,2,3,4,6,7,8-HpCDF	8.78e2	1.21	YES	0.851	10.052	36.687	36.69	1.001	1.001	0.15579		0.0475	0.144
16	16 1,2,3,4,7,8,9-HpCDF			NO	0.980	10.052	38.716		1.000				0.104	
17	17 OCDF	8.18e2	0.91	NO	0.806	10.052	41.357	41.39	1.000	1.001	0.14511		0.0773	0.145
18	18 13C-2,3,7,8-TCDD	2.23e6	0.78	NO	1.20	10.052	25.691	25.72	1.026	1.027	193.30	97.2	0.122	
19	19 13C-1,2,3,7,8-PeCDD	1.81e6	0.62	NO	0.967	10.052	30.432	30.82	1.215	1.230	193.75	97.4	0.197	
20	20 13C-1,2,3,4,7,8-HxCDD	1.32e6	1.27	NO	0.874	10.052	34.193	34.20	1.014	1.014	170.40	85.6	0.233	
21	21 13C-1,2,3,6,7,8-HxCDD	1.65e6	1.24	NO	1.05	10.052	34.294	34.30	1.017	1.017	177.38	89.2	0.194	
22	22 13C-1,2,3,7,8,9-HxCDD	1.52e6	1.20	NO	0.974	10.052	34.598	34.57	1.026	1.025	175.81	88.4	0.209	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.28e6	1.04	NO	0.747	10.052	38.172	38.08	1.132	1.129	192.68	96.8	0.384	
24	24 13C-OCDD	2.48e6	0.85	NO	0.707	10.052	41.072	41.18	1.218	1.221	394.96	99.3	0.300	
25	25 13C-2,3,7,8-TCDF	2.81e6	0.77	NO	1.07	10.052	24.872	24.78	0.993	0.989	190.73	95.9	0.225	
26	26 13C-1,2,3,7,8-PeCDF	2.38e6	1.58	NO	1.00	10.052	29.455	29.51	1.176	1.178	172.14	86.5	0.327	
27	27 13C-2,3,4,7,8-PeCDF	2.29e6	1.59	NO	0.962	10.052	30.425	30.50	1.215	1.218	172.56	86.7	0.341	
28	28 13C-1,2,3,4,7,8-HxCDF	1.68e6	0.52	NO	1.05	10.052	33.316	33.34	0.988	0.989	180.02	90.5	0.350	
29	29 13C-1,2,3,6,7,8-HxCDF	1.91e6	0.51	NO	1.19	10.052	33.418	33.46	0.991	0.992	180.27	90.6	0.309	
30	30 13C-2,3,4,6,7,8-HxCDF	1.76e6	0.52	NO	1.07	10.052	34.028	34.03	1.009	1.009	186.06	93.5	0.345	
31	31 13C-1,2,3,7,8,9-HxCDF	1.50e6	0.51	NO	0.922	10.052	34.935	34.91	1.036	1.035	183.18	92.1	0.398	

Page 1 of 2

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

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-7.qld

Last Altered:	Wednesday, February 26, 2020 10:32:24 Pacific Standard Time
Printed:	Wednesday, February 26, 2020 10:33:05 Pacific Standard Time

1.1.7.5	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.32e6	0.44	NO	0.767	10.052	36.688	36.65	1.088	1.087	193.12	97.1	0.440	
33	33 13C-1,2,3,4,7.8,9-HpCDF	1.03e6	0.44	NO	0.552	10.052	38.712	38.72	1.148	1.148	210.24	106	0.611	ſ
34	34 13C-OCDF	2.78e6	0.88	NO	0.789	10.052	41.308	41.36	1.225	1.226	396.42	99.6	0.345	ſ
35	35 37CI-2,3,7.8-TCDD	8.20e5			1.18	10.052	25.723	25.74	1.027	1.027	72.346	90.9	0.0235	ſ
36	36 13C-1,2,3,4-TCDD	1.92e6	0.79	NO	1.00	10.052	25.110	25.05	1.000	1.000	198.97	100	0.146	
37	37 13C-1,2,3,4-TCDF	2.75e6	0.79	NO	1.00	10.052	23.370	23.28	1.000	1.000	198.97	100	0.240	ſ
38	38 13C-1,2,3,4,6,9-HxCDF	1.77e6	0.51	NO	1.00	10.052	33.710	33.72	1.000	1.000	198.97	100	0.367	ľ
39	39 Total Tetra-Dioxins				0.988	10.052	24.620		0.000		0.12639		0.0504	0.126
40	40 Total Penta-Dioxins				0.972	10.052	29.960		0.000		0.10332		0.0548	0.138
41	41 Total Hexa-Dioxins				0.921	10.052	33.635		0.000		1.1476		0.0826	1.15
42	42 Total Hepta-Dioxins				0.923	10.052	37.640		0.000		2.2451		0.127	2.25
43	43 Total Tetra-Furans				0.802	10.052	23.610		0.000				0.0172	
44	44 1st Func. Penta-Furans				0.907	10.052	27.090		0.000				0.0111	
45	45 Total Penta-Furans				0.907	10.052	29.275		0.000				0.0181	
46	46 Total Hexa-Furans				0.898	10.052	33.555		0.000		0.077763		0.0242	0.136
47	47 Total Hepta-Furans				0.851	10.052	37.835		0.000		0.00000		0.0539	0.144

#### Quantify Totals Report MassLynx 4.1 SCN815

Vista Analytical Laboratory

Last Altered:	Wednesday, February 26, 2020 10:32:24 Pacific Standard Time
Printed:	Wednesday, February 26, 2020 10:33:05 Pacific Standard Time

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200225R3\_7, Date: 25-Feb-2020, Time: 17:50:55, ID: 2000329-01RE1 PDI-100SC-J-06-07-190926 14.43, Description: PDI-100SC-J-06-07-190926

#### Tetra-Dioxins

Nai	me	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1 Tot	al Tetra-Dioxins	23.46	7.081e3	1.004e4	5.983e2	8.034e2	0.74	NO	1.402e3	0.12639	0.12639	0.0504

#### Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.56	2.272e3	4.374e3	1.191e2	3.024e2	0.39	YES	0.000e0	0.00000	0.034938	0.0548
2	Total Penta-Dioxins	29.07	5.872e3	1.131e4	3.299e2	5.816e2	0.57	NO	9.115e2	0.10332	0.10332	0.0548

#### **Hexa-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.74	5.295e4	4.380e4	2.763e3	2.149e3	1.29	NO	4.912e3	0.70773	0.70773	0.0826
2	Total Hexa-Dioxins	33.55	1.906e4	1.588e4	1.271e3	9.850e2	1.29	NO	2.256e3	0.32509	0.32509	0.0826
3	1,2,3,7,8,9-HxCDD	34.57	1.051e4	5.908e3	4.615e2	3.455e2	1.34	NO	8.070e2	0.11478	0.11478	0.0855

#### **Hepta-Dioxins**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.07	4.631e4	4.798e4	4.248e3	4.144e3	1.03	NO	8.393e3	1.4128	1.4128	0.127
2	1,2,3,4,6,7,8-HpCDD	38.10	2.966e4	2.362e4	2.613e3	2.331e3	1.12	NO	4.944e3	0.83229	0.83229	0.127

#### Tetra-Furans

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

#### Penta-Furans function 1

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

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

#### U:\VG12.PRO\Results\200225R3\200225R3-7.qld Dataset:

Wednesday, February 26, 2020 10:32:24 Pacific Standard Time Last Altered: Wednesday, February 26, 2020 10:33:05 Pacific Standard Time Printed:

Name: 200225R3\_7, Date: 25-Feb-2020, Time: 17:50:55, ID: 2000329-01RE1 PDI-100SC-J-06-07-190926 14.43, Description: PDI-100SC-J-06-07-190926

#### Penta-Furans

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

#### Hexa-Furans

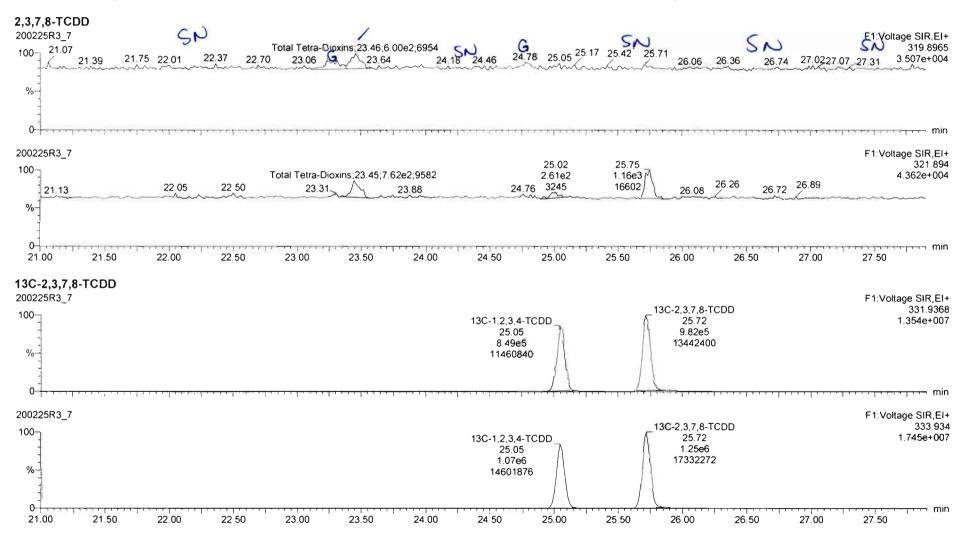
5	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,7,8-HxCDF	33.36	5.756e3	4.964e3	2.354e2	2.306e2	1.02	YES	4.659e2	0.00000	0.058401	0.0235
2	1.2,3,7,8,9-HxCDF	34.91	5.107e3	3.644e3	1.801e2	1.691e2	1.06	NO	3.492e2	0.053903	0.053903	0.0335
3	Total Hexa-Furans	34.95	7.033e3	3.229e3	1.031e2	8.149e1	1.27	NO	1.846e2	0.023860	0.023860	0.0242

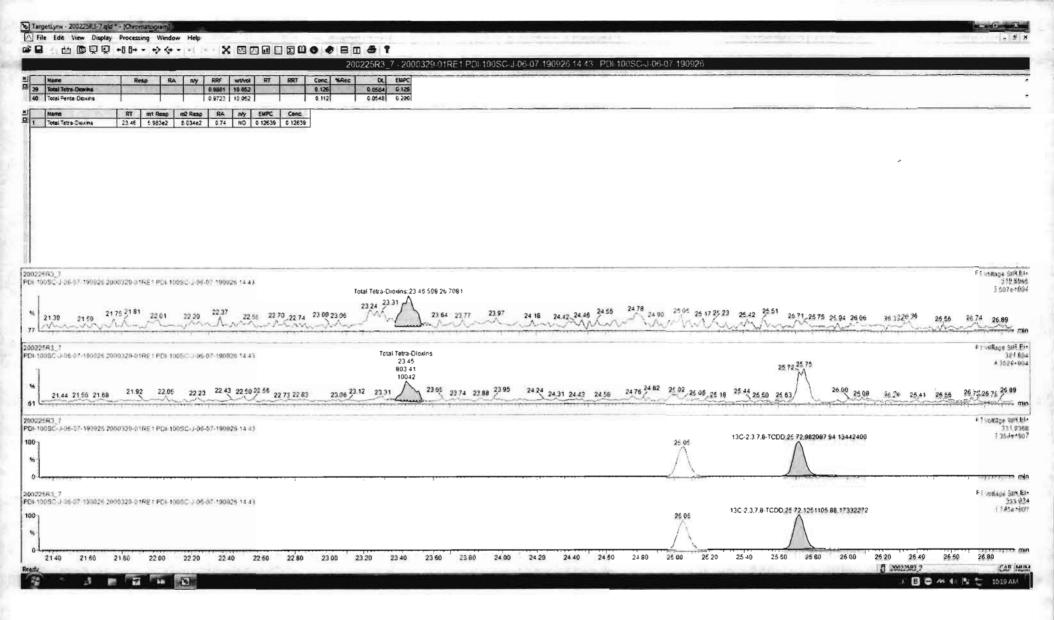
#### Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.69	7.231e3	6.514e3	4.800e2	3.981e2	1.21	YES	8.781e2	0.00000	0.14410	0.0475

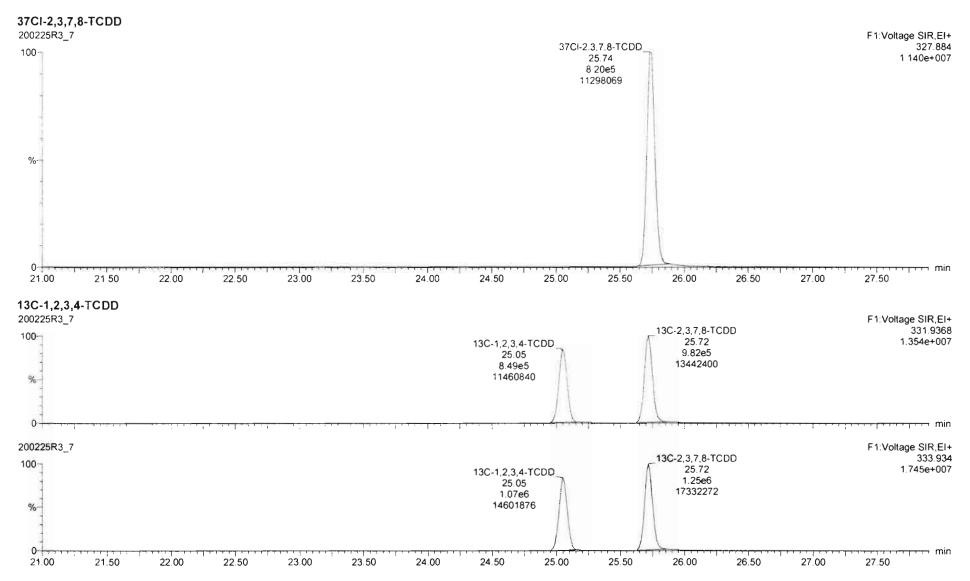
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#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

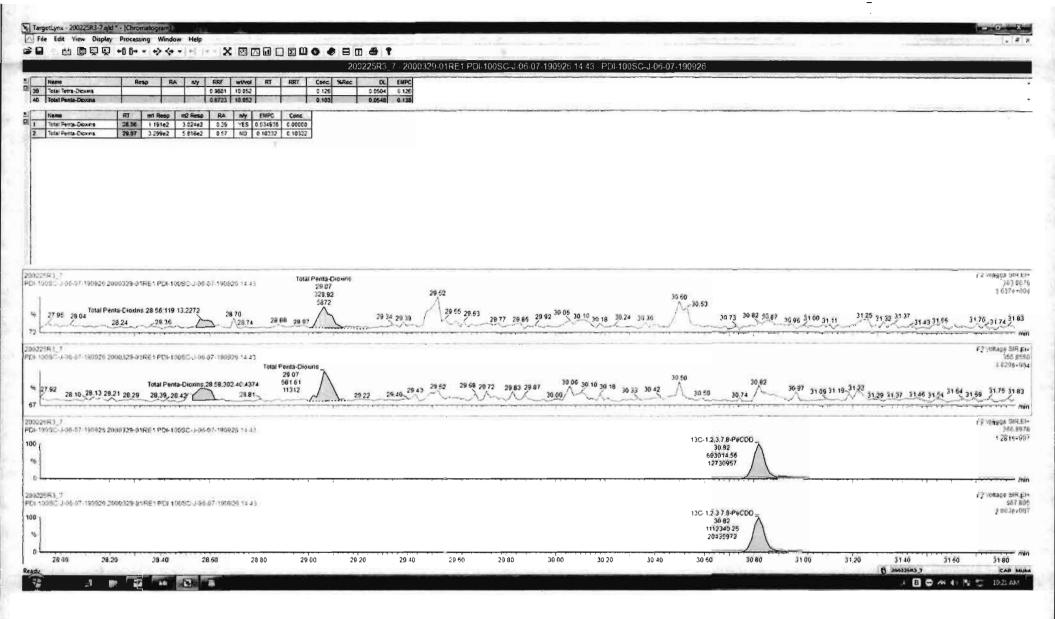




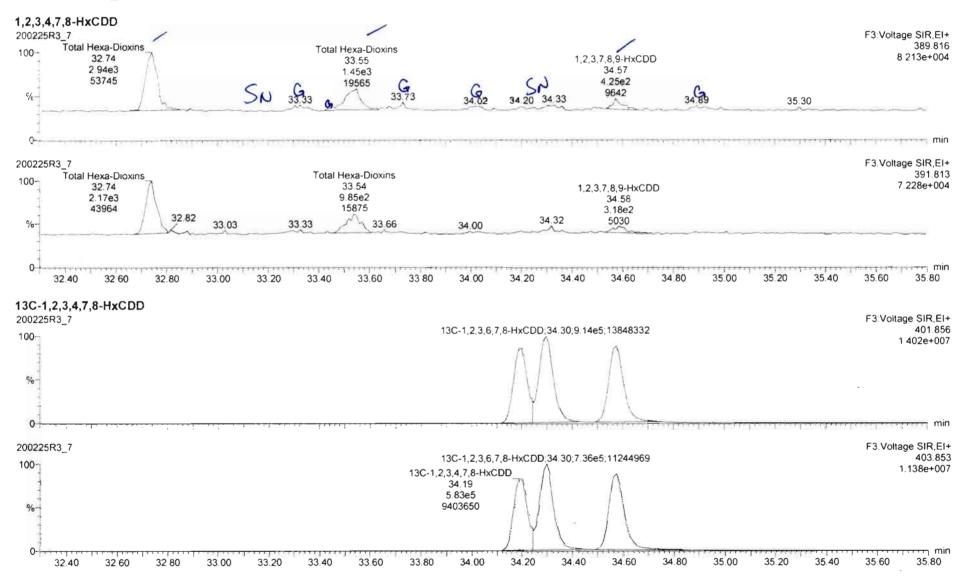
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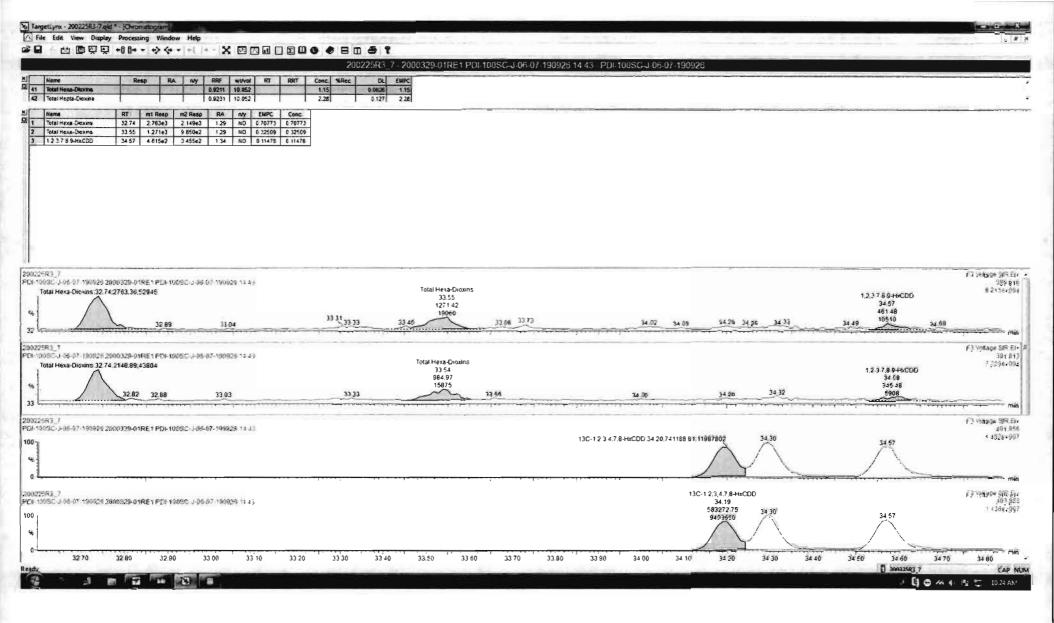


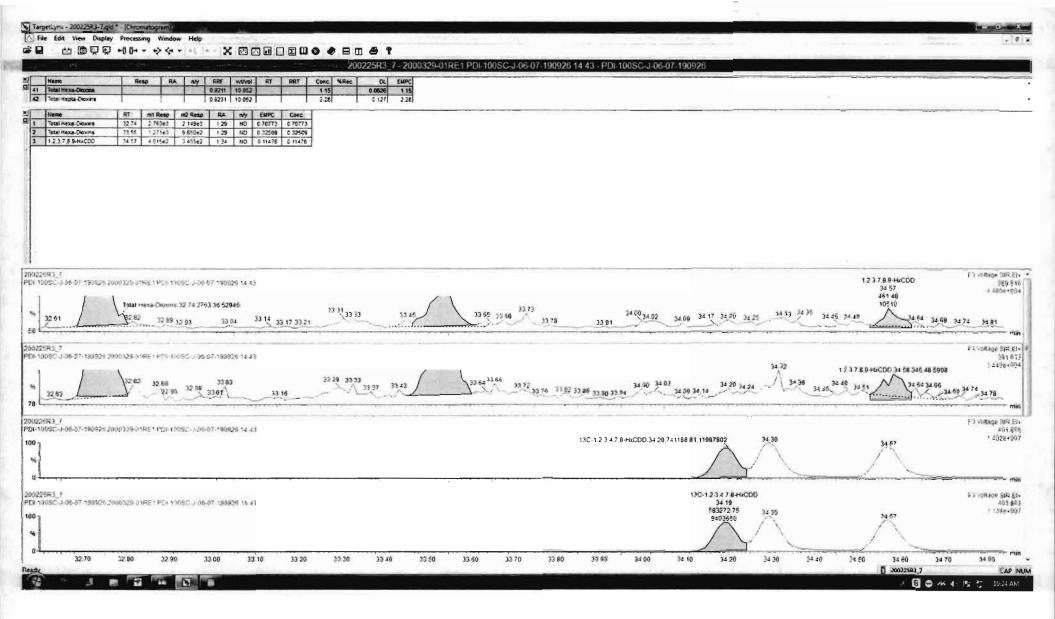
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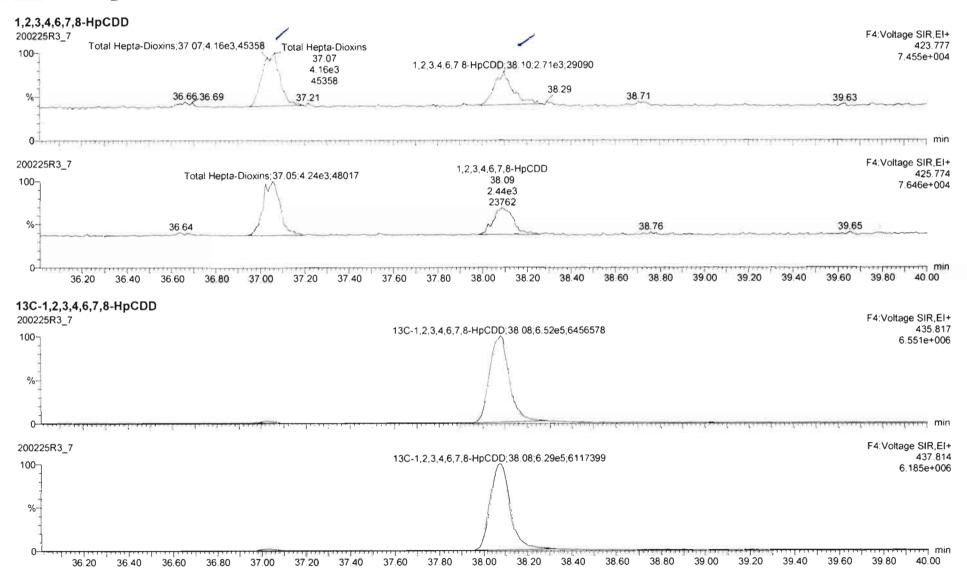
Quantify Sam Vista Analytica		Page 4 of 13
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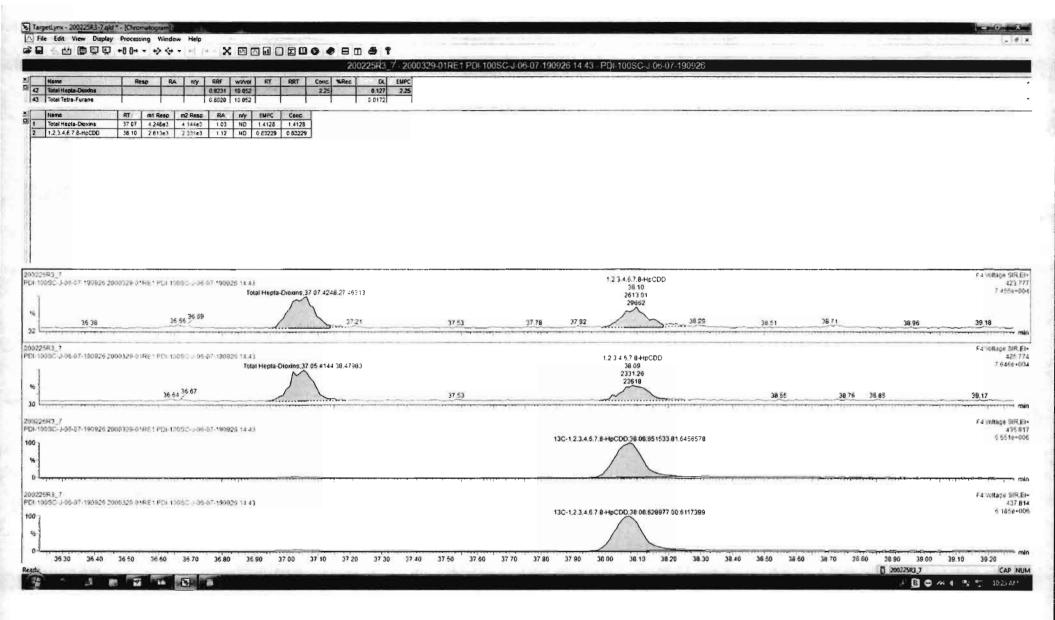




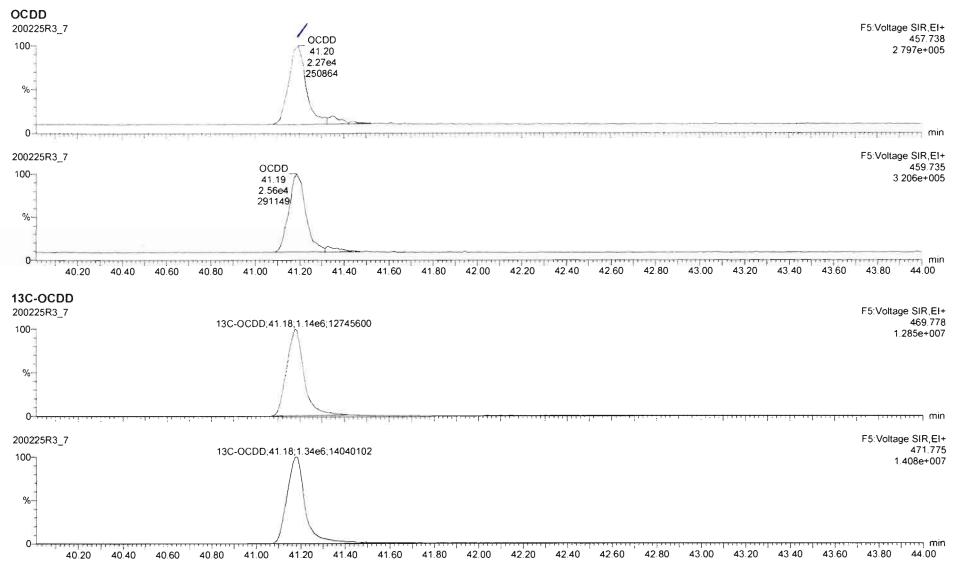


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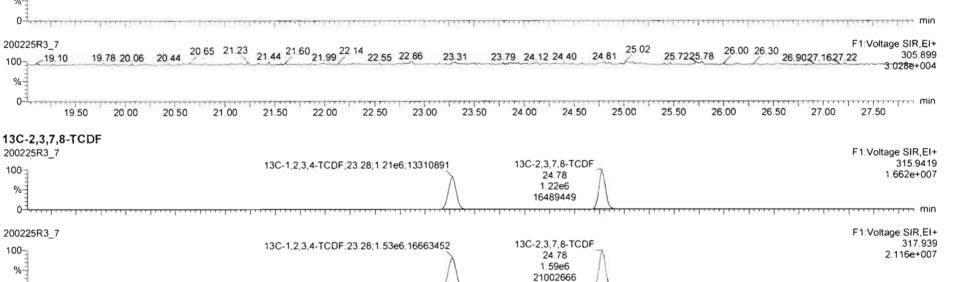




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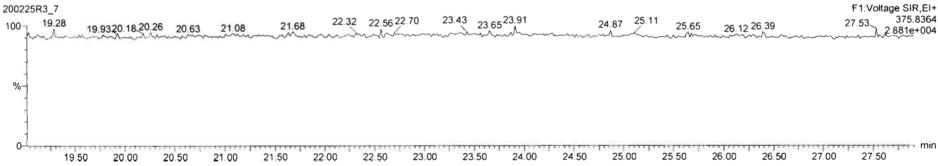
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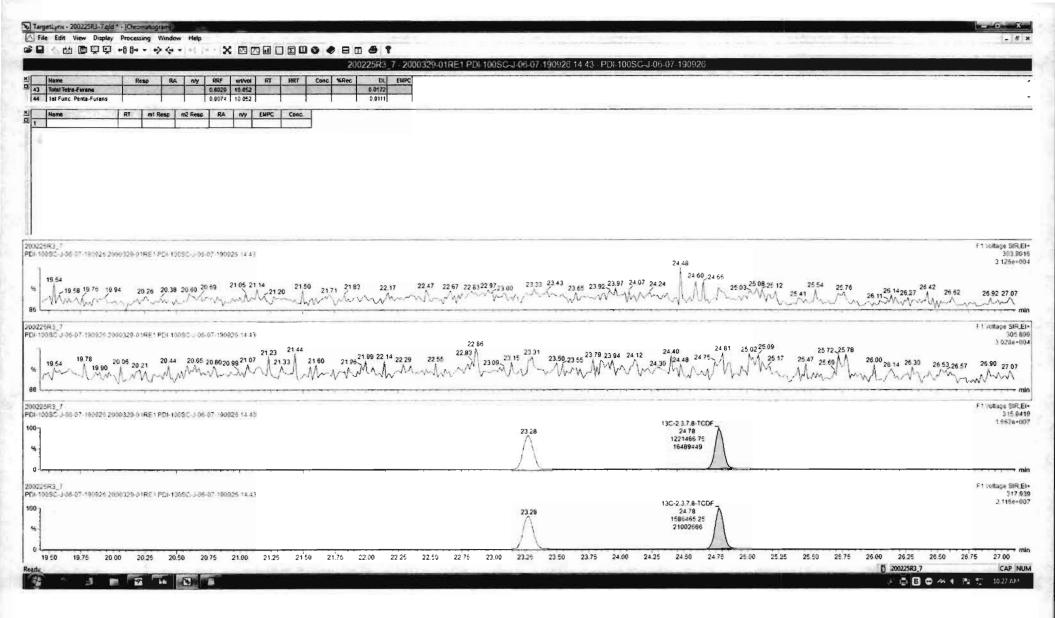
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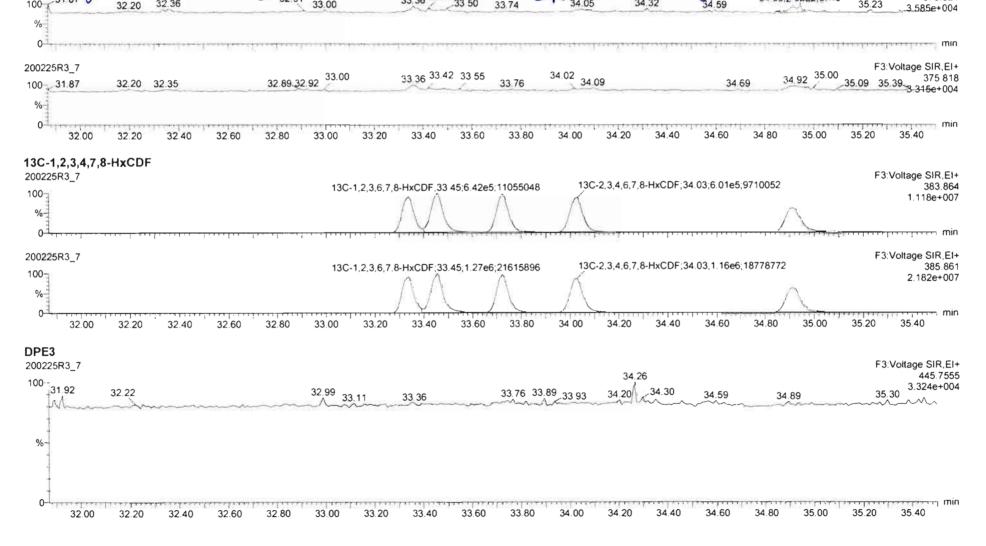
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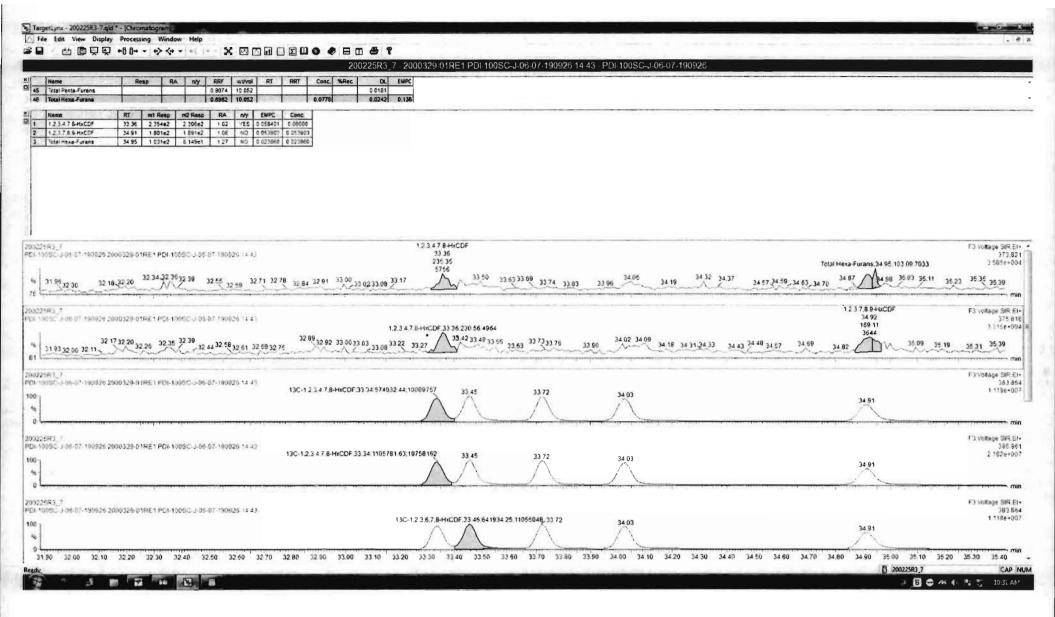
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Mame         Resp         RA         nty         RRF         vxt/vot         RT         RRT         Conc.         %Rec         DL         EMPC           43         Total Tetra-Furans         0.8028         10.052         0.0172         0.0172           44         1st Func. Perial-Furans         0.9074         10.052         0.0111	
Name         RT         m1 Resp.         m2 Resp.         RA         n/y         EMPC         Conc           1	
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0 28 00 13C-1,2,3,7,8 200225R3_7 100 % 0 200225R3_7 100 100			13C-1.2,3,7,8-PeCDF 29.51 1.46e6 25925682 13C-1.2,3,7,8-PeCDF 29.51 9.22e5 16417199		3C-2.3,4,7,8-PeCDF 30.50 1.41e6 25829002 3C-2,3,4,7,8-PeCDF 30.50 8.86e5 16373618	****		1.40 31.60 31.80 F2:Voltage SIR,EI+ 351.900 2 613e+007 rftrongerstress F2:Voltage SIR,EI+ 353.897
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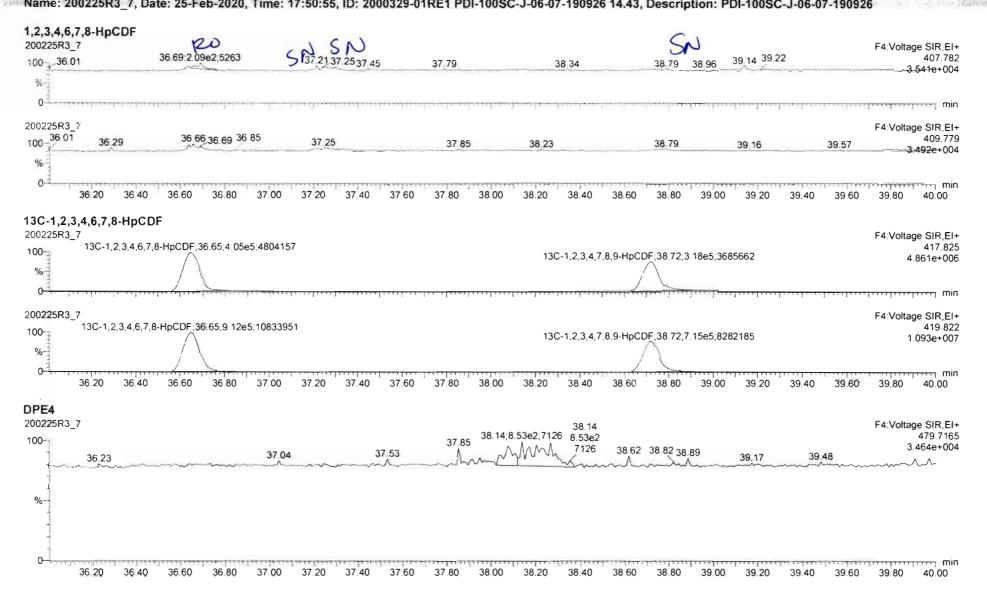
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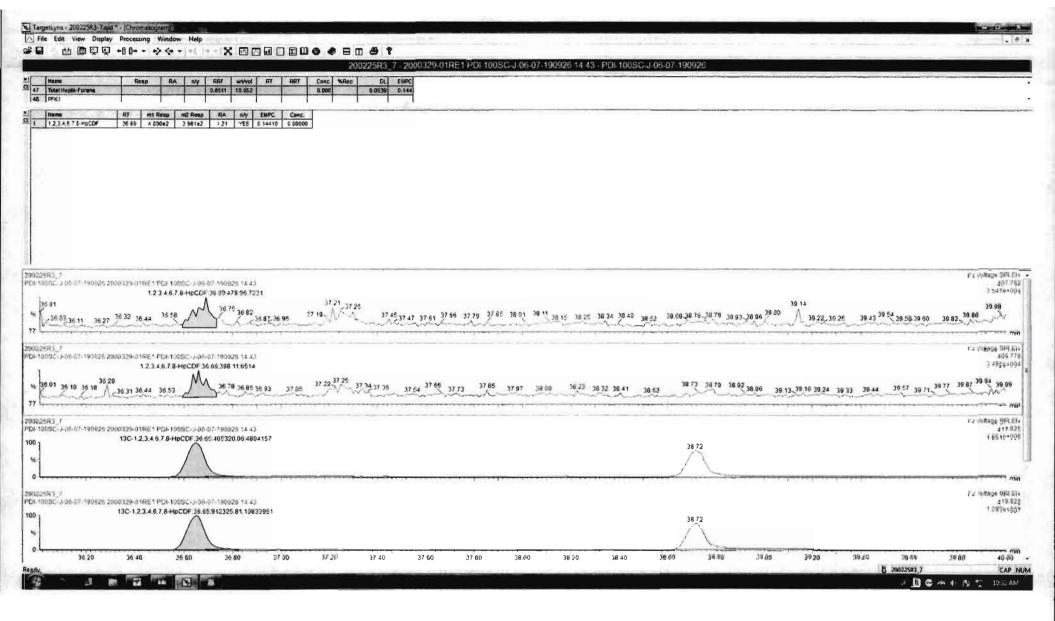
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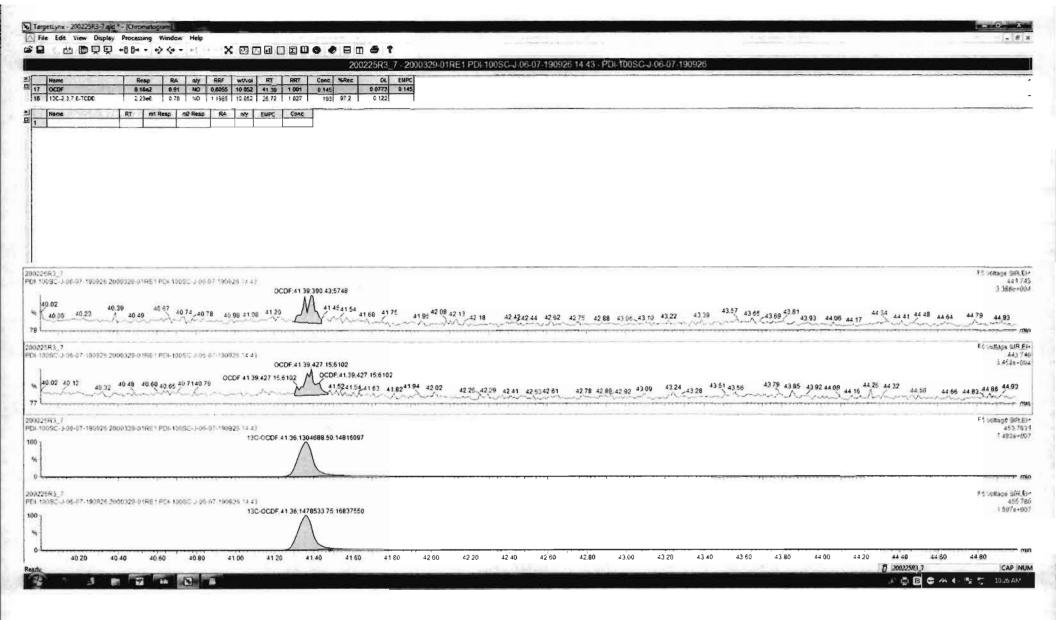


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	28.20 28.40	28.60 28.80	20.00 20.20 20.40	29.60 29.80	30.00 30.20	30.40 30.60	30.80 31.00	31.20 31.40	31.60 31.80
<b>K3</b> 0225R3_7		28.60 28.80 3;8.64e6;1775788		29.60 29.80 34.63;8.64e6					
<b>K3</b> 0225R3_7			34.63;8.64e6;1775788			30.40 30.60 34.63;8.64e6;1775788		31.20 31.40	
<b>K3</b> 0225R3_7 0- 									F3:Voltage SI 578670 380
<b>K3</b> 0225R3_7	34.6	3;8.64e6;1775788	34.63;8.64e6;1775788	34.63;8.64e6				.32 <u>35.54;4.94e4;</u> 5	F3:Voltage SI 578670 380
K3 0225R3_7 0 31.93 0 32.00 K4	34.6	3;8.64e6;1775788	34.63;8.64e6;1775788	34.63,8.64e6	;1775788	34.63;8.64e6;1775788	35.00 35.	2.32 35.54;4.94e4;5 25 35.50	F3:Voltage SI 578670 380 1:0756 35.75 36 F4:Voltage SI
<b>K3</b> 0225R3_7 6-31.93 0-32.00	34.6	3;8.64e6;1775788	34.63,8.64e6,1775788 33.00 33.25 33	34.63,8.64e6	;1775788	34.63;8.64e6;1775788	35	2.32 35.54;4.94e4;5 25 35.50	F3:Voltage SI 578670 380 1:0756 35.75 36
<b>K3</b> 2225R3_7 31.93 32.00 <b>K4</b> 2225R3_7	34.6	3;8.64e6;1775788 2.50 32.75	34.63;8.64e6;1775788 33.00 33.25 33	34.63,8.64e6	;1775788	34.63;8.64e6;1775788 34.50 34.75	35.00 35.	2.32 35.54;4.94e4;5 25 35.50	F3: Voltage SI 578670 380 1:0756 35:75 36 F4: Voltage SI 430
<b>K3</b> 2225R3_7 31.93 32.00 <b>K4</b> 2225R3_7 36.14	34.6	3;8.64e6;1775788 2.50 32.75	34.63;8.64e6;1775788 33.00 33.25 33 39 37.35 37.52	34.63,8.64e6	4.00 34.25	34.63;8.64e6;1775786 34.50 34.75 38.4838.60 38.76	3 35.00 39.04 39.04 39.04 39.04	2.32 35.54;4.94e4;5 25 35.50	F3:Voltage SI 578670 380 1:0756 35.75 36 F4:Voltage Si 430 7:5356
K3 2225R3_7 31.93 32.00 K4 0225R3_7 0 36.14 0 36.2	34.6	3;8.64e6;1775788 2.50 32.75 36.86;1.93e6;154853	34.63;8.64e6;1775788 33.00 33.25 33 39 37.35 37.52	34.63,8.64e6	4.00 34.25	34.63;8.64e6;1775786 34.50 34.75 38.4838.60 38.76	3 35.00 39.04 39.04 39.04 39.04	32 35.54;4.94e4;5 25 35.50 0 39.40 39.49	F3:Voltage SI 578670 380 1:0756 35.75 36 F4:Voltage Si 430 7:5356
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K3 2225R3_7 31.93 32.00 K4 0225R3_7 36.14 0 36.2 K5 0225R3_7	34.6 32.25 3 32.25 3	3,8 64e6; 1775788 2.50 32.75 36.86; 1.93e6; 154853 .60 36.80 37.00	34.63;8.64e6;1775788 33.00 33.25 33 39 37.35 37.52 0 37.20 37.40 3	34.63;8.64e6 3.50 33.75 3 2 37.75 <sup>37.81</sup> 7.60 37.80 38.00	4.00 34.25 4.00 34.25 0 38.20 38.	34.63;8.64e6;1775788 34.50 34.75 38.48 38.60 38.76 40 38.60 38.80	35.00 35. 39.04 <sup>39.3</sup> 39.00 39.20	25 35.54;4.94e4;5 25 35.50 0 39.40 39.49 39.40 39.6	F3:Voltage SI 578670 380 1:0756 35.75 36 F4:Voltage SI 430 7:5356 0 39.80 40 F5:Voltage SI 63_44.80 454

Quantify Sam Vista Analytica	al Laboratory MassLynx MassLynx V4.1 SCN 945	Page 1 of 2
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Call Hard & Street	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.988	10.064	25.75		1.00		NO			0.0440	
2	2 1,2,3,7,8-PeCDD				0.972	10.064	30.84		1.00		NO			0.0463	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.064	34.21		1.00		NO			0.0606	
4 State Harris	4 1,2,3,6,7,8-HxCDD				0.921	10.064	34.30		1.00		NO			0.0627	
5	5 1,2,3,7,8,9-HxCDD				0.918	10.064	34.61		1.00		NO			0.0710	
6	6 1,2,3,4,6,7.8-HpCDD	3442.443	1.092	NO	0.923	10.064	38.08	38.08	1.00	1.00	NO	0.5702		0.138	0.5702
7 CELENCE	7 OCDD	22401.586	0.910	NO	0.975	10.064	41.17	41.19	1.00	1.00	ŅO	3.964	· •	0.111	3.964
8	8 2,3,7,8-TCDF				0.802	10.064	24.82		1.00		NO			0.0326	
9	9 1,2,3,7,8-PeCDF				0.907	10.064	29.53		1.00		NO			0.0289	
10	10 2.3,4,7,8-PeCDF				0.952	10.064	30.53		1.00		NO			0.0277	
11	11 1,2,3,4,7,8-HxCDF				0.862	10.064	33.34		1.00		NO			0.0456	
12	12 1,2,3,6,7,8-HxCDF				0.841	10.064	33.47		1.00		NO			0.0444	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.064	34.06		1.00		NO			0.0487	
14	14 1,2,3,7,8,9-HxCDF				0.858	10.064	34.91		1.00		NO			0.0665	
15	15 1,2,3,4,6,7,8-HpCDF				0.851	10.064	36.69		1.00		NO			0.0817	
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.064	38.72		1.00		NO			0.0957	
17	17 OCDF	713.982	0.850	NO	0.806	10.064	41.36	41.38	1.00	1.00	NO	0.1349		0.0882	0.1349
18	18 13C-2,3,7,8-TCDD	2162441.5	0.776	NO	1.20	10.064	25.71	25.72	1.03	1.03	NO	187.9	94.5	0.116	
19	19 13C-1,2,3,7,8-PeCDD	1744470.6	0.633	NO	0.967	10.064	30.45	30.82	1.22	1.23	NO	187.9	94.6	0.183	
20	20 13C-1,2,3,4,7,8-HxCDD	1300120.4	1.262	NO	0.874	10.064	34.19	34.20	1.01	1.01	NO	170.1	85.6	0.302	
21	21 13C-1,2,3,6.7,8-HxCDD	1635927.1	1.261	NO	1.05	10.064	34.29	34.30	1.02	1.02	NO	178.8	90.0	0.253	
22	22 13C-1,2,3,7,8,9-HxCDD	1490417.3	1.253	NO	0.974	10.064	34.60	34.57	1.03	1.03	NO	174.9	88.0	0.271	
23	23 13C-1.2.3.4,6,7,8-HpCDD	1299708.3	1.007	NO	0.747	10.064	38.17	38.07	1.13	1.13	NO	198.9	100	0.428	
24	24 13C-OCDD	2304551.6	0.905	NO	0.707	10.064	41.07	41.17	1.22	1.22	NO	372.9	93.8	0.416	
25	25 13C-2,3,7,8-TCDF	2747795.6	0.775	NO	1.07	10.064	24.89	24.79	0.99	0.99	NO	187.3	94.3	0.230	
26	26 13C-1.2,3.7,8-PeCDF	2342449.7	1.571	NO	1.00	10.064	29.47	29.51	1.18	1.18	NO	169.8	85.5	0.380	
27	27 13C-2,3,4,7,8-PeCDF	2264858.1	1.569	NO	0.962	10.064	30.44	30.50	1.21	1.22	NO	171.0	86.1	0.396	
28	28 13C-1,2,3,4,7,8-HxCDF	1621702.3	0.527	NO	1.05	10.064	33.32	33. <b>34</b>	0.99	0.99	NO	176.7	88.9	0 380	
29	29 13C-1,2,3,6;7,8-HxCDF	1838696.1	0.506	NO	1.19	10.06 <b>4</b>	33.42	33.46	0.99	0.99	NO	176.7	88.9	0.335	
30	30 13C-2,3,4,6,7,8-HxCDF	1692613.5	0.513	NO	1.07	10.064	34.03	34.03	1.01	1.01	NO	181.5	91.3	0.374	

Quantify Sam Vista Analytica	nple Summary Report al Laboratory	MassLynx MassLynx V4.1 SCN 945	Page 2 of 2
Dataset:	U:\VG12.PRO\Results\200	225R3\200225R3-8.qld	
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B-11 200-0-	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
31	31 13C-1,2,3,7,8,9-HxCDF	1489710.4	0.515	NO	0.922	10.064	34.93	34.91	1.04	1.04	NO	184.7	92.9	0.432	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1315481.0	0.443	NO	0.767	10.064	36.69	36.65	1.09	1.09	NO	196.0	98.7	0.469	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1008759.1	0.430	NO	0.552	10.064	38.71	38.72	1.15	1.15	NO	208.8	105	0.652	
34	34 13C-OCDF	2612255.3	0.883	NO	0.789	10.064	41.31	41.36	1.23	1.23	NO	378.3	95.2	0.281	
35	35 37CI-2,3,7,8-TCDD	796134.625			1.18	10.064	25.74	25.75	1.03	1.03	NO	70.47	88.7	0.0337	
36	36 13C-1,2,3,4-TCDD	1908603.3	0.789	NO	1.00	10.064	25.11	25.06	1.00	1.00	NO	198.7	- 100	0.139	
37	37 13C-1,2,3,4-TCDF	2736410.2	0.789	NO	1.00	10.064	23.37	23.30	1.00	1.00	NO	198.7	100	0.245	
38	38 13C-1,2,3,4,6,9-HxCDF	1738147.6	0.517	NO	1.00	10.064	33.71	33.72	1.00	1.00	NO	198.7	100	0.399	
39	39 Total Tetra-Dioxins				0.988	10.064	24.62		0.00		NO	0.1196		0.0440	0.1196
40	40 Total Penta-Dioxins				0.972	10.064	29.96		0.00		NO	0.07679		0.0463	0.1276
41	41 Total Hexa-Dioxins				0.921	10.064	33.63		0.00		NO	0.6422		0.0677	0.6422
42	42 Total Hepta-Dioxins				0.923	10.064	37.64		0.00		· NO	1.447		0.138	1.447
43	43 Total Tetra-Furans				0.802	10.064	23.61		0.00		NO			0.0159	
44	44 1st Func. Penta-Furans				0.907	10.064	27.09		0.00		NO			0.0103	
45	45 Total Penta-Furans				0.907	10.064	29.27		0.00		NO			0.0149	
46	46 Total Hexa-Furans				0.898	10.064	33.56		0.00		NO			0.0254	
47	47 Total Hepta-Furans				0.851	10.064	37.83		0.00		NO			0.0450	

#### Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-8.qld

Last Altered: Wednesday, February 26, 2020 11:20:24 Pacific Standard Time Printed: Wednesday, February 26, 2020 11:22:53 Pacific Standard Time

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200225R3\_8, Date: 25-Feb-2020, Time: 18:38:19, ID: 2000329-02RE1 PDI-100SC-J-07-08-190926 14.26, Description: PDI-100SC-J-07-08-190926

#### **Tetra-Dioxins**

1000	# Name	Area	IS Area	RA	YIN	Pred.RT	RT	Conc.	EMPC
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	39 Total Tetra-Dioxins	1.29e3	2.16e6	0.703	NO	24.62	23.49	0.1196	0.1196

### **Penta-Dioxins**

ALL STREET, ST	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1 44.2 7 14	40 Total Penta-Dioxins	6.55e2	1.74e6	0.601	NO	29.96	29.07	0.07679	0.07679
2	40 Total Penta-Dioxins	0.00e0	1.74e6	0.818	YES	29.96	28.58	0.0000	0.05085

#### **Hexa-Dioxins**

- Charles and	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1 CONTRACTOR	41 Total Hexa-Dioxins	1.37e3	0.00e0	1.417	NO	33.63	33.54	0.1996	0.1996
2	41 Total Hexa-Dioxins	3.03e3	0.00e0	1.235	NO	33.63	32.75	0.4426	0.4426

### **Hepta-Dioxins**

The Party of the	# Name	Area	IS Area	RA	Y/IN	Pred.RT	RT	Conc.	EMPC
1-MARINE MAR	6 1,2,3,4,6,7,8-HpCDD	3.44e3	1.30e6	1.092	NO	38.08	38.08	0.5702	0.5702
2	42 Total Hepta-Dioxins	5.29e3	1.30 <b>e</b> 6	1.091	NO	37.64	37.02	0.8764	0.8764

#### **Tetra-Furans**

The section	# Name	T-DUE HERE	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
12-Carl Stalls										

### Penta-Furans function 1

* Name	Anea IS Area	RA	Y/N Pred.RT	RT	Conc. EMPC
1000 Billion Billion					

4	Quantify Tota Vista Analytica	Is Report MassLynx MassLynx V4.1 SCN 945 Il Laboratory
	Dataset:	U:\VG12.PRO\Results\200225R3\200225R3-8.qld
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Name: 200225R3\_8, Date: 25-Feb-2020, Time: 18:38:19, ID: 2000329-02RE1 PDI-100SC-J-07-08-190926 14.26, Description: PDI-100SC-J-07-08-190926

### **Penta-Furans**

CENTRY.	# Name	Area IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1								

#### **Hexa-Furans**

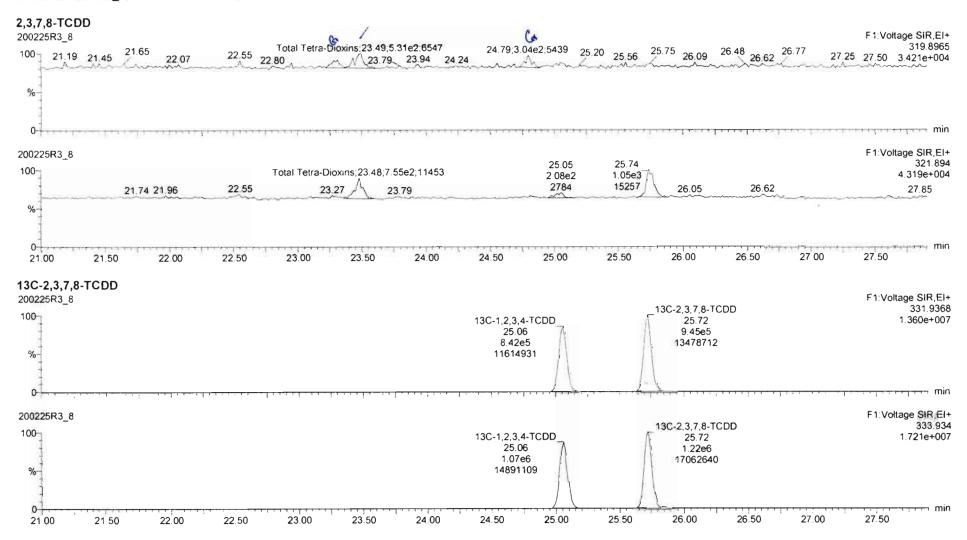
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## Hepta-Furans

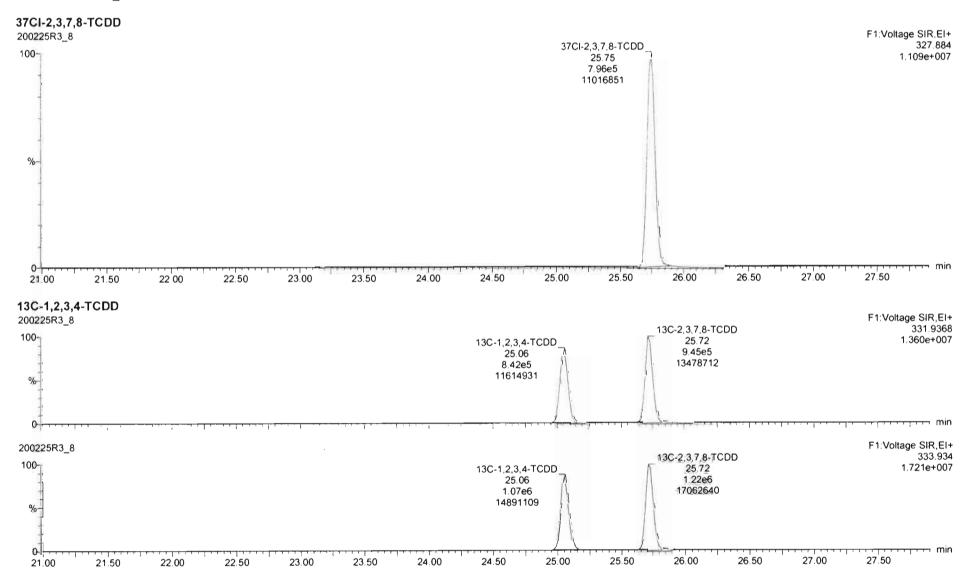
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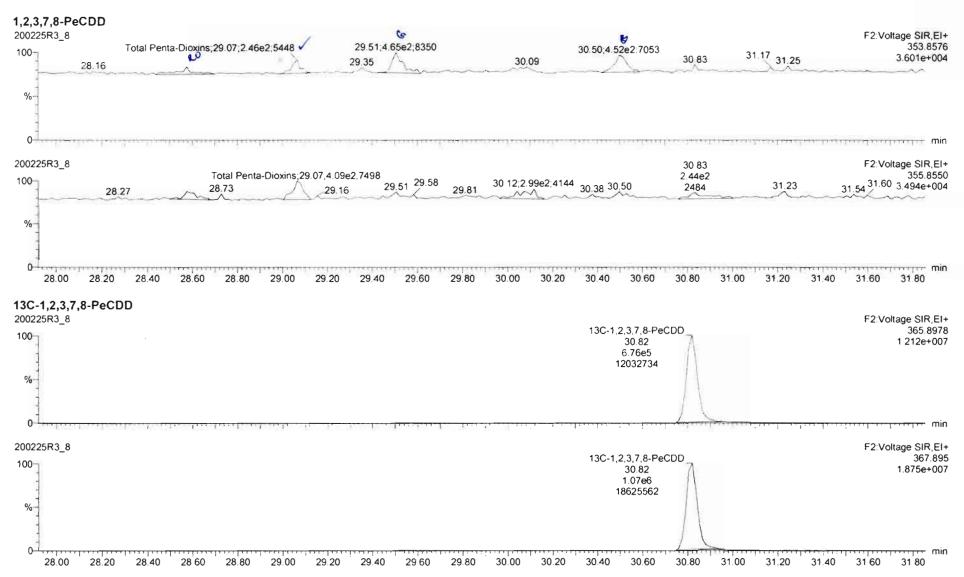
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Quantify Sam Vista Analytica	• •	MassLynx 4.1 SCN815	Page 2 of 13
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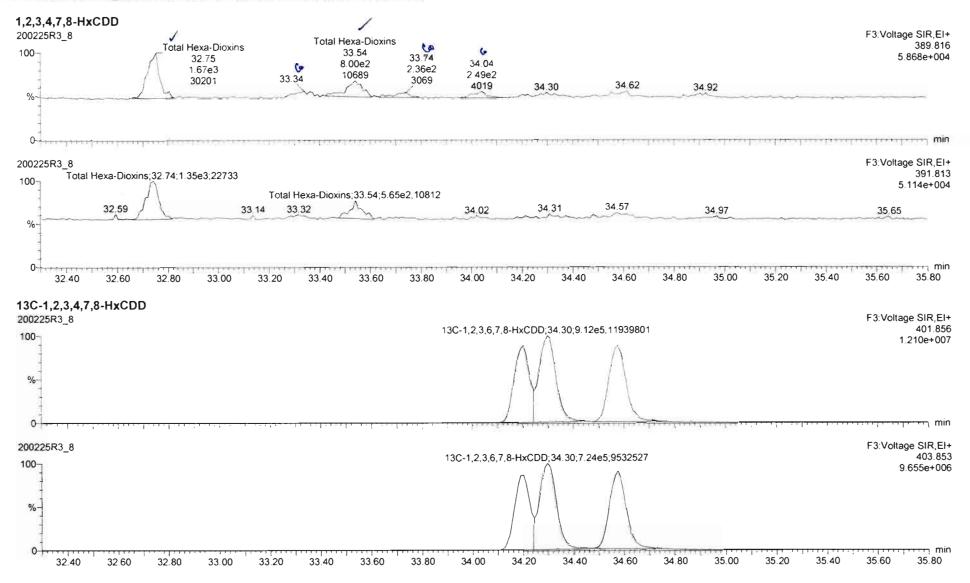
Quantify Sam Vista Analytica		Page 3 of 13
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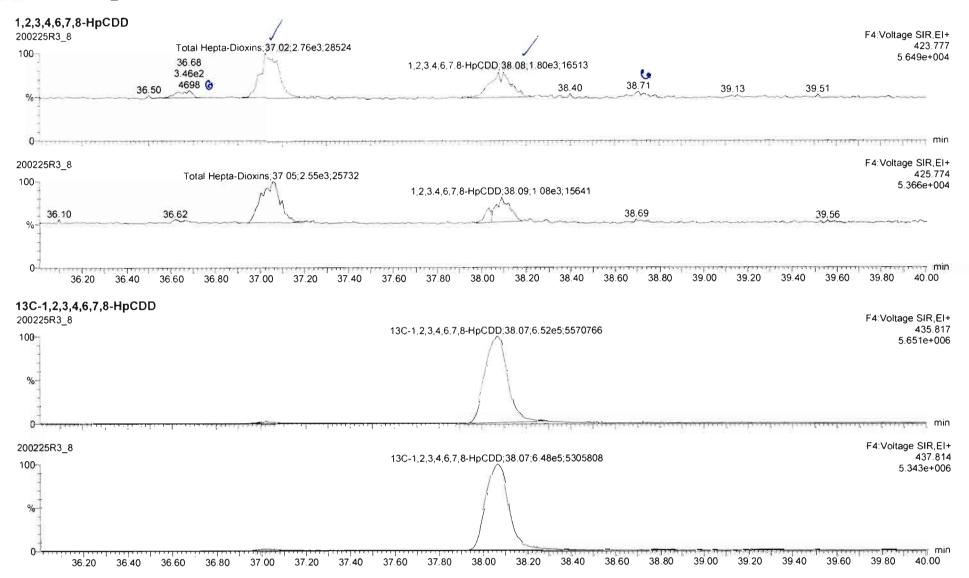
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41 41 Total Hexa-Dioxins		-	0			63	0.000		NO	0 6472		0.0677 0.6															•				
42 42 Total Hepta-Dioxins	1					54	0.000		NO	0 8790	-	0138 1																			
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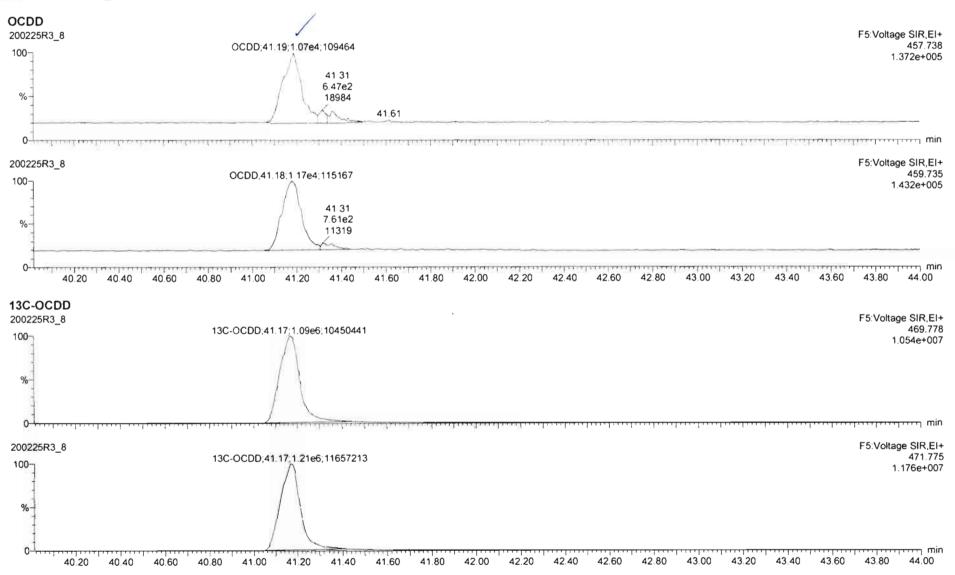


Quantify Sam Vista Analytica		Page 5 of 13
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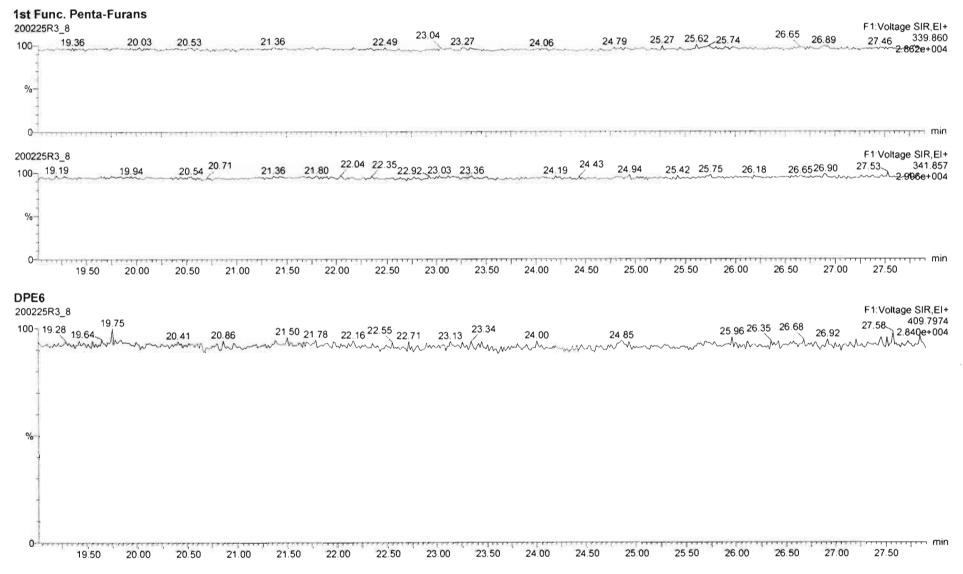
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19.5		20.50	21 00	21.50	22.00	22.50	23.00	23 50	24.00	24.50	23.00	23.30	20.00	20.50	27.00	27.50
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%-] 0 <del></del>	<del></del>		· · · · · · · · · · · · · · · · · · ·			<del>i</del>	,	<del>, , , , , , , , , , , , , , , , , , , </del>		791941 	4		• • • • • • • • • • • • • • • • • • • •		<del></del>	
00225R3_8				420 4 2 2		0 20.1 52-	C-1C071004		120.27		-					F1:Voltage SIR,E 317.9
100-				136-1,2,3	3,4-1GDF(2	3.30;1.53€	6;16971884		2	3,7,8-TCDF 24.79 .55e6	7					2.025e+0
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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
DPE1 200225R3_8																F1:Voltage SIR,
100-19.13	19.78 19.63	20.50	20.87 21.14	21.	78	22 56	22.97 23.12		24.00		24.87	25.38	25.93	26.53	26.86	375.83 27.41 3.118e+0
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Quantify Sam Vista Analytica		Page 8 of 13
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:41:51 Pacific Standard Time Wednesday, February 26, 2020 08:41:57 Pacific Standard Time	
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Name: 20022	25R3_8, Date: 25-Feb-2020, Time: 18:38:19, ID: 2000329-02RE1 PDI-100SC-J-07-08-190926 14.26, Description: PDI-100	SC-J-07-08-190926



Dataset:	Untitled								
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100-	28.52 28.61	29,11	29.39 29.52	29.72 29.87 29.95	30.06 30.39 30.5	3 30.74	30.96	31.46 31.51 31.7	2 339.860 3.093e+004
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0.4			ter territorete	وبالموالموالية		ليصفك وفليقتصك			min
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100 28 1	12 28.35 28.52		29.52 29.60	29.98	30.12 30.5	30.56 30.8	7 31.11 31.17	31.35 31.70	)341.857 <del>3.136</del> e+004
%									
0. <sup>1</sup>			timetrin duration			ليبتذاغ ببليسيك			min
28.00	28.20 28.40 28.60	28.80 29.00 29.20	29.40 29.60	0 29.80 30.00	30.20 30.40 3	30.60 30.80	31.00 31.20	31.40 31.60	31.80
13C-1,2,3,7,8	-PeCDF								
200225R3_8		130.1 2 3 7	0 D-0DE 20 51-1	12-0-00140466 1				F2:V	/oltage SIR,EI+
		13C-1,2,3,7	8-PeCDF.29.51;1	43e6;26149466 1	3C-2,3,4,7,8-PeCDF 30.50			F2:V	oltage SIR,EI+ 351.900 2.630e+007
200225R3_8		13C-1,2,3,7	.8-PeCDF,29.51;1	.43e6;26149466 1	30.50 1.38e6			F2:V	351.900
200225R3_8 100-		13C-1,2,3,7	.8-PeCDF.29.51;1	43e6;26149466 1	30.50	<del>,</del>	·····	F2:V	351.900
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200225R3_8 100 %- 0 200225R3_8 100 %- 0		13C-1,2,3,7	.8-PeCDF;29.51.9	.11e5;16537713 1	30.50 1.38e6 26011514 3C-2,3,4,7,8-PeCDF 30.50 8.82e5 16645778			F2:V	351.900 2.630e+007 
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200225R3_8 100 %- 0 200225R3_8 100 %- 28.00	28.20 28.40 28.60	13C-1,2,3,7	.8-PeCDF;29.51.9	.11e5;16537713 1 	30.50 1.38e6 26011514 3C-2,3,4,7,8-PeCDF 30.50 8.82e5 16645778	<u>→</u> 		F2:V 31.40 31.60 F2:V	351.900 2.630e+007 
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200225R3_8 100 %- 200225R3_8 100 %- 28.00 DPE2 200225R3_8		13C-1,2,3,7 28.80 29.00 29.20	8-PeCDF;29.51.9 29.40 29.60	.11e5;16537713 1 	30.50 1.38e6 26011514 3C-2,3,4,7,8-PeCDF 30.50 8.82e5 16645778 30.20 30.40 3			F2:V 31.40 31.60 F2:V 31.7	351.900 2.630e+007 
200225R3_8 100 %- 200225R3_8 100 %- 28.00 DPE2 200225R3_8		13C-1,2,3,7 28.80 29.00 29.20	8-PeCDF;29.51.9 29.40 29.60	.11e5;16537713 1 	30.50 1.38e6 26011514 3C-2,3,4,7,8-PeCDF 30.50 8.82e5 16645778 30.20 30.40 3			F2:V 31.40 31.60 F2:V 31.7	351.900 2.630e+007 
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Dataset:	Untitled							
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Name: 20022 1,2,3,4,7,8-Hx 200225R3_8 100-3	xCDF			ID: 2000329-02RE1 PDI-100SC-				F3:Voltage SIR,EI 373.821
100-3	32.22 32.35		32.91	33.37 33.44 33.53 33.72	34.09	34 57	34.96;3.65e2;5018	3.912e+004
0-1,,,,,,,,,,,,,,								min
200225R3_8				22 20 23 42 33 51			24.00 34.95	F3 Voltage SIR,EI- 375.818
100 31.87	32.17 32.36		32.83	33.20 33.42 33.51	34.07 34.21	34.67	34.90.34.95	35.21 375.818 3.378e+004
%								······································
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				3C-1,2,3,6,7,8-HxCDF;33.45,6.18e5;9335				F3:Voltage SIR,EI- 383.864 9.467e+006
<b>13C-1,2,3,4,7</b> 200225R3_8 100		·····	13 		5229 13C-2,3,4,6,7,8-Hx0	CDF,34.03;5.74e5;8(		F3:Voltage SIR,EI- 383.864 9.467e+006
13C-1,2,3,4,7 200225R3_8 100			13 	3C-1,2,3,6,7,8-HxCDF;33.45;6.18e5;9335	5229 13C-2,3,4,6,7,8-Hx0	CDF,34.03;5.74e5;8(		F3:Voltage SIR,EI- 383.864 9.467e+006
13C-1,2,3,4,7 200225R3_8 100 % 0 200225R3_8 100 % 0 0 0 0 0 0	7,8-HxCDF		13  134	IC-1,2,3,6,7,8-HxCDF;33.45;1.22e6;1861	5229 13C-2,3,4,6,7,8-Hx0	CDF,34.03;5.74e5;80	5844852	F3:Voltage SIR,EI- 383.864 9.467e+006 ••••• ••••• F3:Voltage SIR,EI- 385.86
<b>13C-1,2,3,4,7</b> 200225R3_8 100 % 0 200225R3_8 100 % 100 32.00	7,8-HxCDF		13 	IC-1,2,3,6,7,8-HxCDF;33.45;1.22e6;1861	5229 13C-2,3,4,6,7,8-Hx0	CDF,34.03;5.74e5;80	5844852	F3:Voltage SIR,EI- 383.864 9.467e+000 F3:Voltage SIR,EI- 385.86 1.884e+000
<b>13C-1,2,3,4,7</b> 200225R3_8 100 0 200225R3_8 100 0 200225R3_8 100 0 32.00 <b>DPE3</b> 200225R3_8	7,8-HxCDF		13  134	IC-1,2,3,6,7,8-HxCDF;33.45;1.22e6;1861	5229 13C-2,3,4,6,7,8-Hx0	CDF,34.03;5.74e5;80	5844852	F3:Voltage SIR,EI- 383.864 9.467e+000 F3:Voltage SIR,EI- 385.86 1.884e+007 55.20 35.40 F3:Voltage SIR,EI-
13C-1,2,3,4,7 200225R3_8 100 % 0 200225R3_8 100 % 0 32.00 DPE3	7,8-HxCDF		13 	C-1,2,3,6,7,8-HxCDF;33.45;1.22e6;1861 33.20 33.40 33.60 33	5229 13C-2,3,4,6,7,8-Hx0 1800 13C-2,3,4,6,7,8-Hx0 1800 34.20 34	CDF,34.03;5.74e5;80	055237 5844852 34.80 35.00	F3:Voltage SIR,EI- 383.864 9.467e+006 F3:Voltage SIR,EI- 385.86 1.884e+007 55.20 35.40 F3:Voltage SIR,EI- 35.30 445.755 1 3.761e+004
<b>13C-1,2,3,4,7</b> 200225R3_8 100 0 200225R3_8 100 0 200225R3_8 100 0 32.00 <b>DPE3</b> 200225R3_8	7,8-HxCDF		13 	C-1,2,3,6,7,8-HxCDF;33.45;1.22e6;1861 33.20 33.40 33.60 33	5229 13C-2,3,4,6,7,8-Hx0	CDF,34.03;5.74e5;80	5844852	F3:Voltage SIR,EI- 383.864 9.467e+006 F3:Voltage SIR,EI- 385.86 1.884e+007 55.20 35.40 F3:Voltage SIR,EI- 35.30 445.755 1 3.761e+004
<b>13C-1,2,3,4,7</b> 200225R3_8 100 0 200225R3_8 100 0 200225R3_8 100 0 32.00 <b>DPE3</b> 200225R3_8	7,8-HxCDF		13 	C-1,2,3,6,7,8-HxCDF;33.45;1.22e6;1861 33.20 33.40 33.60 33	5229 13C-2,3,4,6,7,8-Hx0 1800 13C-2,3,4,6,7,8-Hx0 1800 34.20 34	CDF,34.03;5.74e5;80	055237 5844852 34.80 35.00	F3:Voltage SIR,EI- 383.864 9.467e+006 F3:Voltage SIR,EI- 385.86 1.884e+007 55.20 35.40 F3:Voltage SIR,EI- 35.30 445.755 1 3.761e+004
<b>13C-1,2,3,4,7</b> 200225R3_8 100 % 0 200225R3_8 100 % 32.00 <b>DPE3</b> 200225R3_8 100 100 100 32.00	7,8-HxCDF		13 	C-1,2,3,6,7,8-HxCDF;33.45;1.22e6;1861 33.20 33.40 33.60 33	5229 13C-2,3,4,6,7,8-Hx0 1800 13C-2,3,4,6,7,8-Hx0 1800 34.20 34	CDF,34.03;5.74e5;80	055237 5844852 34.80 35.00	F3:Voltage SIR,EI- 383.864 9.467e+006 F3:Voltage SIR,EI- 385.86 1.884e+007 55.20 35.40 F3:Voltage SIR,EI- 35.30 445.755 1 3.761e+004

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Name: 20022	25R3 8, Da	te: 25-Feb-2020, 1	ime: 18:38:19, ID	: 2000329-0	)2RE1 PDI-1	00SC-J-07-0	8-190926	6 14.26, Descri	ption: PDI-1009	SC-J-07-08-1909	926
1 <b>,2,3,4,6,7,8-</b> 200225R3_8											F4:Voltage SIR,E
100-x <sup>36.01</sup> 36.	21 36.34	6.65;2.24e2;2701 36.8	6 37.28.37	.31		38.22	38.44	38.64 38.72 38	39.08	39.46	39.85, 407.78
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100 - 36.01	36.28	36 65	37 29 3	7.42 37.59	37.87	38.06 38.	34 38 44	38.76	39.11		100 77
100 <u>36.01</u> %-	36.28	36.65	37.29 3	7.42 37.59	37.87	38.06 38.	34 38 44	38.76	39.11		39.81 409.77 3.117e+00
100 - 36.01				7.42 37.59 .40 37.60		38.06 <sup>38.</sup> 8.00 38.20	34 38.44 38.40	38.76 38.60 38.80	39.11 39.00 39.20	0 39.40 39.60	39.81 409.73 39.81 3.117e+00
100 - 36.01 %- 0- 36.2	20 36 40	36.60 36.80		Intelectedate			<u> </u>			0 39.40 39.60	39.81 409.75 39.81 3.117e+00
100 <u>36.01</u> %- 0- 36.2 13 <b>C-1,2,3,4</b> ,6	20 36 40	36.60 36.80		Intelectedate			<u> </u>			39.40 39.60	39.81 409.7 3.117e+00 3.117e+00 39.80 40.00
100 36.01 % 0 36.2 13C-1,2,3,4,6 200225R3_8	20 36 40 5,7,8-HpCE	36.60 36.80	37.00 37.20 3	Intelectedate		88.00 38.20	38.40	38.60 38.80	39.00 39.20	) 39.40 39.6(	39.81 409.77 3.117e+00 39.80 40.00 F4: Voltage SIR,E 417.82
100 36.01 % 0 36.2 13C-1,2,3,4,6 200225R3_8 100 13	20 36 40 5,7,8-HpCE	36.60 36.80 <b>DF</b>	37.00 37.20 3	Intelectedate		88.00 38.20	38.40		39.00 39.20	9 39.40 39.60	39.81 409.77 39.81 3.117e+00
100 36.01 %- 0- 36.2 13C-1,2,3,4,6 200225R3_8 100 13 %-	20 36 40 5,7,8-HpCE	36.60 36.80 <b>DF</b>	37.00 37.20 3	Intelectedate		88.00 38.20	38.40	38.60 38.80	39.00 39.20	39.40 39.60	39.81 409.77 3.117e+00 39.80 40.00 F4:Voltage SIR,E 417.82 4.169e+00
100 36.01 % 0-36.2 13C-1,2,3,4,6 200225R3_8 100 13 % 0-1	20 36 40 5,7,8-HpCE	36.60 36.80 <b>DF</b>	37.00 37.20 3	Intelectedate		88.00 38.20	38.40	38.60 38.80	39.00 39.20	9 39.40 39.60	39.81 409.77 3.117e+00 3.117e+00 39.80 40.00 F4:Voltage SIR,E 417.82 4.169e+00
100 36.01 % 0-36.2 13C-1,2,3,4,6 200225R3_8 100 13 % 0-4,4,4,4,6 200225R3_8 100 13 % 0-4,4,4,6 13 % 0-4,4,4,6 0,4,4,6,6,4,6,6,4,6,6,4,6,6,4,6,6,6,6,6,	20 36 40 5 <b>,7,8-HpCE</b> C-1,2,3,4,6,7,	36.60 36.80 DF 8-HpCDF;36.65;4.04e5	37.00 37.20 3 4117637	Intelectedate		88.00 38.20	38.40	38.60 38.80	39.00 39.20	9 39.40 39.60	39.81 409.77 3.117e+00 39.80 40.00 F4:Voltage SIR,E 417.82 4.169e+00
100 36.01 % 0-36.2 13C-1,2,3,4,6 200225R3_8 100 13 % 0-4	20 36 40 5 <b>,7,8-HpCE</b> C-1,2,3,4,6,7,	36.60 36.80 <b>DF</b>	37.00 37.20 3 4117637	Intelectedate		13.00 13.00 13. 13.	38.40 38.40	38.60 38.80	39.00 39.20 ;3.03e5;2989026	) 39.40 39.6(	39.81 409.77 39.81 3.117e+00 3.117e+00 39.80 40.00 F4: Voltage SIR,E 417.82 4.169e+00 F4: Voltage SIR,E
100 36.01 % 0-36.2 13C-1,2,3,4,6 200225R3_8 100 13 % 0-4,4,4,4,6 200225R3_8 100 13 % 0-4,4,4,6 13 % 0-4,4,4,6 0,4,4,6,6,4,6,6,4,6,6,4,6,6,6,6,4,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6	20 36 40 5 <b>,7,8-HpCE</b> C-1,2,3,4,6,7,	36.60 36.80 DF 8-HpCDF;36.65;4.04e5	37.00 37.20 3 4117637	Intelectedate		13.00 13.00 13. 13.	38.40 38.40	38.60 38.80 7,8,9-HpCDF;38.72;	39.00 39.20 ;3.03e5;2989026	) 39.40 39.6(	39.81 409.77 3.117e+00 3.117e+00 5.117e+00 5.117e+00 5.117e 4.000 F4:Voltage SIR,E 417.82 4.169e+00 F4:Voltage SIR,E 419.82
100 36.01 % 0-36.2 13C-1,2,3,4,6 200225R3_8 100 13 % 0-4	20 36 40 <b>5,7,8-HpCE</b> C-1,2,3,4,6,7, C-1,2,3,4.6,7, 	36.60 36.80 <b>DF</b> 8-HpCDF;36.65;4.04e5 8-HpCDF;36.65;9.11e5	37.00 37.20 3 4117637 9239247	Intelectedate	37.80 3	13.00 13.00 13. 13.	38.40 38.40	38.60 38.80 7,8,9-HpCDF;38.72;	39.00 39.20 ;3.03e5;2989026 ;7.05e5;6864818		39.81 409.77 3.117e+00 3.117e+00 39.80 40.00 F4:Voltage SIR,E 417.82 4.169e+00 F4:Voltage SIR,E 419.82 9.313e+00
100 36.01 % 0-36.2 13C-1,2,3,4,6 200225R3_8 100 13 % 0-4	20 36 40 <b>5,7,8-HpCE</b> C-1,2,3,4,6,7, C-1,2,3,4.6,7, 	36.60 36.80 <b>DF</b> 8-HpCDF;36.65;4.04e5 8-HpCDF;36.65;9.11e5	37.00 37.20 3 4117637 9239247	40 37 60	37.80 3	13: 13: 13: 13: 13: 13: 13: 13:	38.40 38.40 C-1,2,3,4,7 C-1,2,3,4,7 G-1,2,3,4,7 38.40	38.60 38.80 7,8,9-HpCDF:38.72; ,, 7,8,9-HpCDF:38.73	39.00 39.20 ;3.03e5;2989026 ;7.05e5;6864818		39.81 409.7 3.117e+00 3.117e+00 5.117e+00 5.117e+00 5.117e+00 F4:Voltage SIR,E 417.8; 4.169e+00 F4:Voltage SIR,E 419.8; 9.313e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5.117e+00 5
100 36.01 % 0-36.2 13C-1,2,3,4,6 200225R3_8 100 13 % 0	20 36 40 <b>5,7,8-HpCE</b> C-1,2,3,4,6,7, C-1,2,3,4.6,7, 	36.60 36.80 <b>DF</b> 8-HpCDF;36.65;4.04e5 8-HpCDF;36.65;9.11e5	37.00 37.20 3 4117637 9239247 37.00 37.20 3	40 37 60	37.80 3	13- 13- 13- 13- 13- 13- 13-	38.40 38.40 C-1,2,3,4,7 C-1,2,3,4,7 G-1,2,3,4,7 38.40	38.60 38.80 7,8,9-HpCDF:38.72; ,, 7,8,9-HpCDF:38.73	39.00 39.20 ;3.03e5;2989026 ;7.05e5;6864818		39.81 409.7 3.117e+00 3.117e+00 39.80 40.00 F4:Voltage SIR,E 417.8 4.169e+00 F4:Voltage SIR,E 419.8 9.313e+00

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ame: 20022! CDF	5R3_8, Date: 25-I	Feb-2020, Time: 18	38:19, ID: 20	00329-02RE1 F	PDI-100SC-J	07-08-1909	26 14.26,	Descriptio	on: PDI-	-100SC	-J-07-08-	190926	i	
00225R3_8			0.0.4400										F5:Voltag	
00 <u>40.02</u> %	40.65	40.90 OCDF;41.38;3.3			42	73 42.90 43.0	)5				44.	41		441.7 <del>209e</del> +0
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00225R3_8	20 40 45 40 62	41.05 OCDF;41.39;3.	86e2;4653 A1	.86 42.15	42.60	40.97	43.20	42.7	4_43.80		44.4	6 44.62	F5:Voltag	
%	30 40.45 40.62		41	42.15	42.60	42.87	43.20	43.7	4_43.60			<u> </u>	44.84 3.	<del>264c</del> +0
0 <sup></sup> 40.25	5 40.50 40.75	41.00 41.25	1.50 41.75	42.00 42.25	42.50 4	2.75 43.00	43.25	43.50	43.75	44.00	44.25	44.50	44.75	
	5 40.50 40.75	41.00 41.25	1.50 41.75	42:00 42:20	42.50 4	2.75 45.00	40.20	40.00	40.70	44.00	44.20	44.50	44.75	40.00
3C-OCDF 00225R3_8													F5:Voltag	
00		13C-OCDF;41.36;1.2	2e6;11603885										1.	453.78 175e+0
%-] 0														
00225R3_8						1	: , , , , , , ,						F5:Voltag	n
- E		13C-OCDF;41.36;1.3	9e6;13346091											455.7 350e+0
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0- <del>1</del>	5 40.50 40.75	41.00 41.25	41.75	42.00 42.25	42.50 4	2.75 43.00	43.25	43.50	43.75	44.00	44.25	44.50	44.75	45.00
PE5														
00225R3_8	40.36 40.62	41 11 41.31		1.98 42.19 42.24	42.47 42.58		43.23.43	o <del>z</del> 43.51		43.98 4	4.09		F5:Voltag	513.67
40.18	40.62	41.11 41.31	41.56	mhandlin		42.92	43.23.43	.27 43.51	43.74		44.3	7.44.41	4.68	900e+0
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ast Altered: Printed:	Wednesday, February 26, 2020 08:41:51 Pacific Standard Time Wednesday, February 26, 2020 08:41:57 Pacific Standard Time	
lame: 20022	5R3_8, Date: 25-Feb-2020, Time: 18:38:19, ID: 2000329-02RE1 PDI-100SC-J-07-08-190926 14.26, Description: PDI-100SC-J-07-08-19092	26
PFK1 00225R3_8	20 98;3.03e3;93808 22.04;4.86e3;128273 22.70;5.39e3;160959 23.65 24.81;4.66e3;113541 25.39;2.15e3;143370 26.48;5.66e3;189465	F1:Voltage SIR.EI 316 982 2:093ê+000
% 0 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 mir
PFK2 200225R3_8 100 	28.84;3.43e5;125945 28.91 29.03 29.25 29.34 29.58 29.77 29.83 30.03 30.18 30.29 30.51 30.68 30.76 30.94 31.25	F2:Voltage SIR,EI 31.60 366 979 2 203e+00
PFK3 200225R3_8	28.20       28.40       28.60       28.80       29.00       29.20       29.40       29.60       29.80       30.00       30.40       30.60       30.80       31.00       31.20       31.40         34.08.8.30e6;2303338       34.0	31.60 31.80 F3 Voltage SIR EI 35.70 380.976
100 <u>%</u> 31.95		9 580e+00
32.00	32.25 32.50 32.75 33.00 33.25 33.50 33.75 34.00 34.25 34.50 34.75 35.00 35.25 35.50	35 75 36 00
200225R3_8 10036.9	3:1.77e6.1275499 36.93:1.77e6.1275499 37.36 37.73.37.77 37.97 38.48 38.74 38.99 <sup>39.48</sup> 39.56 3	F4 Voltage SIR EI 9.62 430.972 7.033e+00
	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 38.80 39.00 39.20 39.40 39.60	39.80 40.00
PFK5 200225R3_8	40.78 41.14 41.33 41.55 41.82 42.00 42.08 42.51 42.57 42.73 42.93 43.22 43.32 43.51 43.70 43.86 44.2644.30 44.47	F5: Voltage SIR, E 44.77 454.972 4.682e+00
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Work Order 2000329

	<b>nple Summary Report</b> al Laboratory	MassLynx MassLynx V4.1 SCN 945	Page 1
Dataset:	U:\VG12.PRO\Results\20	0225R3\200225R3-9.qld	
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Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

### Name: 200225R3\_9, Date: 25-Feb-2020, Time: 19:25:44, ID: 2000329-03RE1 PDI-100SC-J-08-09-190926 12.94, Description: PDI-100SC-J-08-09-190926

Carl and	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2024.203	0.277	YES	0.988	10.059	✓ 25.75	25.74	1.00	1.00	NO	0.1766		0.0447	0.08800
2	2 1,2,3,7,8-PeCDD	602.774	0.536	NO	0.972	10.059	30.84	30.83	1.00	1.00	NO	0.06636		0.0363	0.06600
3	3 1,2,3,4,7,8-HxCDD	447.421	1.036	YES	1.07	10.059	34.20	34.20	1.00	1.00	NO	0.05858		0.0457	0.05400
4	4 1,2,3,6,7,8-HxCDD	613.742	1.070	NO	0.921	10.059	34.30	34.31	1.00	1.00	NO	0.07760		0.0475	0.07800
5	5 1,2,3,7,8,9-HxCDD	1096.909	1.167	NO	0.918	10.059	34.60	34.57	1.00	1.00	NO	0.1507		0.0543	0.1510
6	6 1,2,3,4,6,7,8-HpCDD	8028.894	1.095	NO	0.923	10.059	38.07	38.08	1.00	1.00	NO	1.260		0.139	1.260
7	7 OCDD	105047.469	0.929	NO	0.975	10.059	41.18	41.19	1.00	1.00	NO	17.41		0.116	17.41
8	8 2,3,7,8-TCDF				0.802	10.059	24.80		1.00		NO			0.0310	
9	9 1,2,3,7,8-PeCDF				0.907	10.059	29.53		1.00		NO			0.0272	
10	10 2,3,4,7,8-PeCDF				0.952	10.059	30.53		1.00		NO			0.0254	
11	11 1,2,3,4,7,8-HxCDF				0.862	10.059	33.34		1.00		NO			0.0423	
12	12 1,2,3,6,7,8-HxCDF				0.841	10.059	33.47		1.00		NO			0.0407	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.059	34.05		1.00		NO			0.0419	
14	14 1,2,3,7,8,9-HxCDF	444.482	1.414	NO	0.858	10.059	34.90	34.92	1.00	1.00	NO	0.06466		0.0589	0.06500
15	15 1,2,3,4,6,7,8-HpCDF				0.851	10.059	36.68		1.00		NO			0.0529	
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.059	38.71		1.00		NO			0.0627	
17	17 OCDF				0.806	10.059	41.36		1.00		NO			0.0602	
18	18 13C-2,3,7,8-TCDD	2306504.0	0.774	NO	1.20	10.059	25.69	25.72	1.03	1.03	NO	183.8	92.4	0.132	
19	19 13C-1,2,3,7,8-PeCDD	1857542.6	0.626	NO	0.967	10.059	30.43	30.82	1.22	1.23	NO	183.5	92.3	0.212	
20	20 13C-1,2,3,4,7,8-HxCDD	1418276.5	1.269	NO	0.874	10.059	34.19	34.19	1.01	1.01	NO	165.3	83.2	0.225	
21	21 13C-1,2,3,6,7,8-HxCDD	1707200.7	1.265	NO	1.05	10.059	34.29	34.30	1.02	1.02	NO	166.3	83.6	0.188	
22	22 13C-1,2,3,7,8,9-HxCDD	1575838.5	1.241	NO	0.974	10.059	34.60	34.56	1.03	1.02	NO	164.8	82.9	0.202	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1372147.3	1.047	NO	0.747	10.059	38.17	38.06	1.13	1.13	NO	187.1	94.1	0.379	
24	24 13C-OCDD	2461752.8	0.885	NO	0.707	10.059	41.07	41.18	1.22	1.22	NO	355.0	89.3	0.256	
25	25 13C-2,3,7,8-TCDF	2876380.5	0.783	NO	1.07	10.059	24.87	24.78	0.99	0.99	NO	180.6	90.8	0.215	
26	26 13C-1,2,3,7,8-PeCDF	2501171.8	1.591	NO	1.00	10.059	29.46	29.51	1.18	1.18	NO	1 <b>67</b> .0	84.0	0.232	
27	27 13C-2,3,4,7,8-PeCDF	2410147.0	1.584	NO	0.962	10.059	30.42	30.50	1.21	1.22	NO	167.6	84.3	0.242	
28	28 13C-1,2,3,4,7,8-HxCDF	1736321.6	0.514	NO	1.05	10.059	33.32	33.34	0.99	0.99	NO	168.6	84.8	0.287	
29	29 13C-1,2,3,6,7,8-HxCDF	1965485.3	0.518	NO	1.19	10.059	33.42	33.46	0.99	0.99	NO	168.3	84.6	0.253	
30	30 13C-2,3,4,6,7,8-HxCDF	1853305.3	0.513	NO	1.07	10.059	34.03	34.02	1.01	1.01	NO	177.1	89.1	0.283	
31	31 13C-1,2,3,7,8,9-HxCDF	1593381.8	0.518	NO	0.922	10.059	34.94	34.90	1.04	1.04	NO	176.0	88.5	0.327	

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## Quantify Sample Summary Report Vista Analytical Laboratory

## MassLynx MassLynx V4.1 SCN 945

### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-9.qld

Last Altered:	Wednesday, February 26, 2020 12:02:43 Pacific Standard Time
Printed:	Wednesday, February 26, 2020 13:59:49 Pacific Standard Time

### Name: 200225R3\_9, Date: 25-Feb-2020, Time: 19:25:44, ID: 2000329-03RE1 PDI-100SC-J-08-09-190926 12.94, Description: PDI-100SC-J-08-09-190926

1000	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1384626.9	0.444	NO	0.767	10.059	36.69	36.64	1.09	1.09	NO	183.9	92.5	0.407	1
33	33 13C-1,2,3,4,7,8,9-HpCDF	1081604.3	0.441	NO	0.552	10.059	38.71	38.71	1.15	1.15	NO	199.5	100	0.565	
34	34 13C-OCDF	2858991.5	0.877	NO	0.789	10.059	41.31	41.36	1.23	1.23	NO	369.0	92.8	0.289	
35	35 37CI-2,3,7,8-TCDD	877444.625			1.18	10.059	25.72	25.74	1.03	1.03	NO	71.23	89.6	0.0299	
36	36 13C-1,2,3,4-TCDD	2082426.6	0.793	NO	1.00	10.059	25.11	25.05	1.00	1.00	NO	198.8	100	0.158	
37	37 13C-1,2,3,4-TCDF	2972696.5	0.787	NO	1.00	10.059	23.37	23.28	1.00	1.00	NO	198.8	100	0.229	
38	38 13C-1,2,3,4,6,9-HxCDF	1951564.6	0.517	NO	1.00	10.059	33.71	33.72	1.00	1.00	NO	198.8	100	0.301	
39	39 Total Tetra-Dioxins				0.988	10.059	24.62		0.00		NO	0.1774		0.0447	0.3140
40	40 Total Penta-Dioxins				0.972	10.059	29.96		0.00		NO	0.2506		0.0363	0.4090
41	41 Total Hexa-Dioxins				0.921	10.059	33.63		0.00		NO	1.532		0.0514	1.586
42	42 Total Hepta-Dioxins				0.923	10.059	37.64		0.00		NO	3.434		0.139	3.434
43	43 Total Tetra-Furans				0.802	10.059	23.61		0.00		NO			0.0132	
44	44 1st Func. Penta-Furans				0.907	10.059	27.09		0.00		NO			0.00959	
45	45 Total Penta-Furans				0.907	10.059	29.27		0.00		NO			0.0121	
46	46 Total Hexa-Furans				0.898	10.059	33.56		0.00		NO	0.1034		0.0437	0.1030
47	47 Total Hepta-Furans				0.851	10.059	37.83		0.00		NO			0.0285	

### Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

## Dataset: U:\VG12.PRO\Results\200225R3\200225R3-9.qld

Last Altered:Wednesday, February 26, 2020 12:02:43 Pacific Standard TimePrinted:Wednesday, February 26, 2020 14:00:03 Pacific Standard Time

### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200225R3\_9, Date: 25-Feb-2020, Time: 19:25:44, ID: 2000329-03RE1 PDI-100SC-J-08-09-190926 12.94, Description: PDI-100SC-J-08-09-190926

# **Tetra-Dioxins**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	6.03e2	2.31e6	0.784	NO	24.62	26.08	0.05264	0.05300
2	1 2,3,7,8-TCDD	2.02e3	2.31e6	0.277	YES	25.75	25.74	0.0000	0.08800
3	39 Total Tetra-Dioxins	0.00e0	2.31e6	1.372	YES	24.62	25.00	0.0000	0.04900
4	39 Total Tetra-Dioxins	1.43e3	2.31e6	0.781	NO	24.62	23.44	0.1247	0.1250

### **Penta-Dioxins**

Section 1	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	5.90e2	1.86e6	0.638	NO	29.96	28.61	0.06492	0.06500
2	40 Total Penta-Dioxins	0.00e0	1.86e6	0.777	YES	29.96	31.22	0.0000	0.04600
3	2 1,2,3,7,8-PeCDD	6.03e2	1.86e6	0.536	NO	30.84	30.83	0.06636	0.06600
4	40 Total Penta-Dioxins	8.63e2	1.86e6	0.594	NO	29.96	30.06	0.09499	0.09500
5	40 Total Penta-Dioxins	0.00e0	1.86e6	0.787	YE\$	29.96	29.07	0.0000	0.1120
6	40 Total Penta-Dioxins	2.21e2	1.86e6	0.622	NO	29.96	30.90	0.02434	0.02400

## **Hexa-Dioxins**

and the second	# Nanne	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	6.07e3	0.00e0	1.110	NO	33.63	32.73	0.8357	0.8360
2	5 1,2,3,7,8,9-HxCDD	1. <b>10e</b> 3	1.58e6	1.167	NO	34.60	34.57	0.1507	0.1510
3	4 1,2,3,6,7,8-HxCDD	6.14e2	1.71e6	1.070	NO	34.30	34.31	0.07760	0.07800
4	3 1,2,3,4,7,8-HxCDD	4.47e2	1.42e6	1.036	YES	- 34.20	34.20	0.0000	0.05400
5	41 Total Hexa-Dioxins	3.40e3	0.00e0	1.253	NO	33.63	33.54	0.4679	0.4680

### **Hepta-Dioxins**

and the second	# Name	Area	IS Area	RA	Y/N	Pred.FRT	RT	Conc.	EIMPC
1	6 1,2,3,4,6,7,8-HpCDD	8.03e3	1.37e6	1.095	NO	38.07	38.08	1.260	1.260
2	42 Total Hepta-Dioxins	1.38e4	1.37e6	1.000	NO	37.64	37.04	2.174	2.174

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# **Tetra-Furans**

10000000	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

## Penta-Furans function 1

S. S. Salar	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

### Penta-Furans

# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1								

### **Hexa-Furans**

and the second	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	4.44e2	1.59e6	1.414	NO	34.90	34.92	0.06466	0.06500
2	46 Total Hexa-Furans	3.12e2	0.00e0	1.318	NO	33.56	34.96	0.03871	0.03900

### **Hepta-Furans**

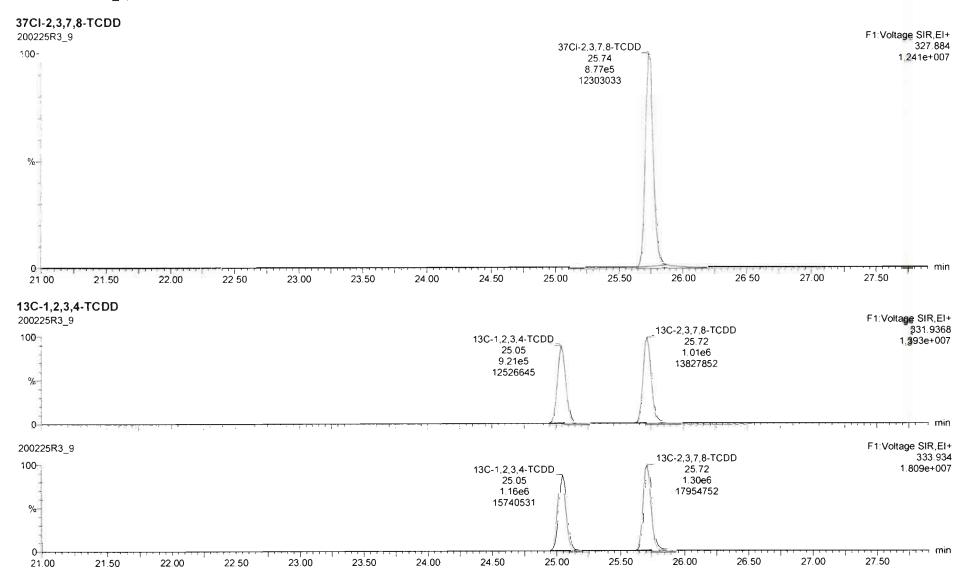
1 20 20 2	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
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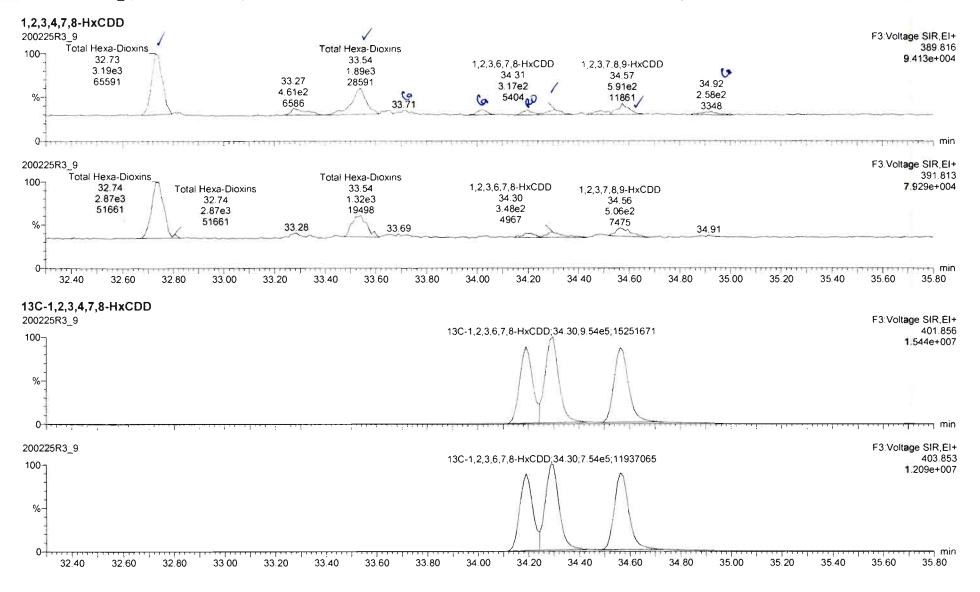
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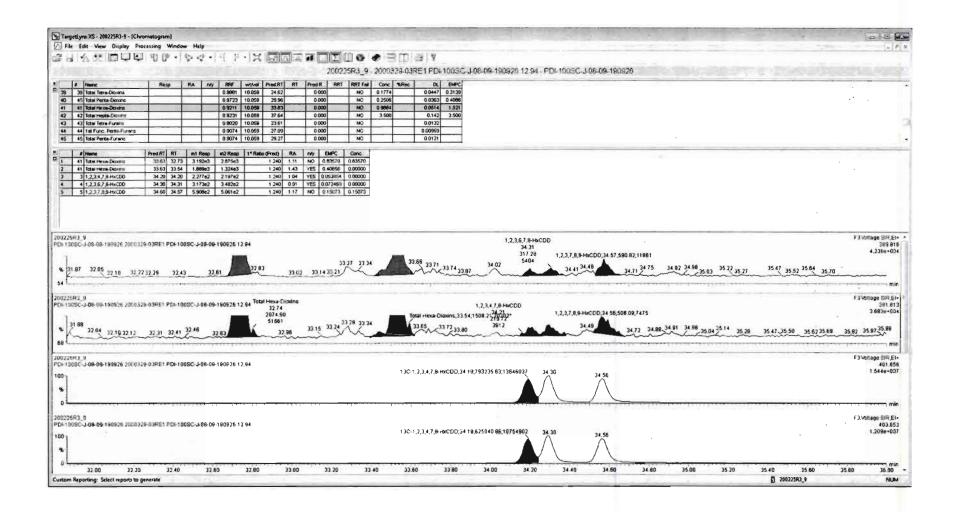
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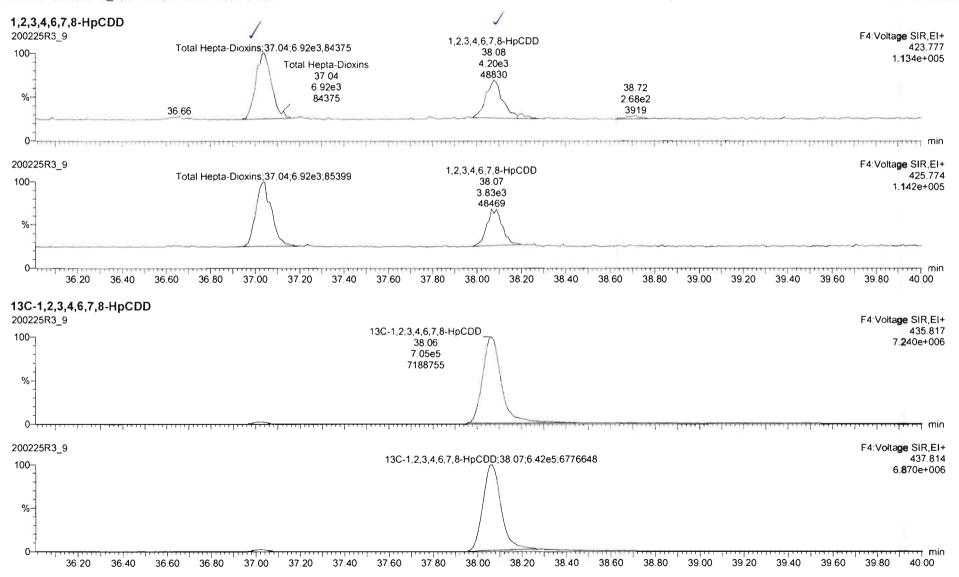
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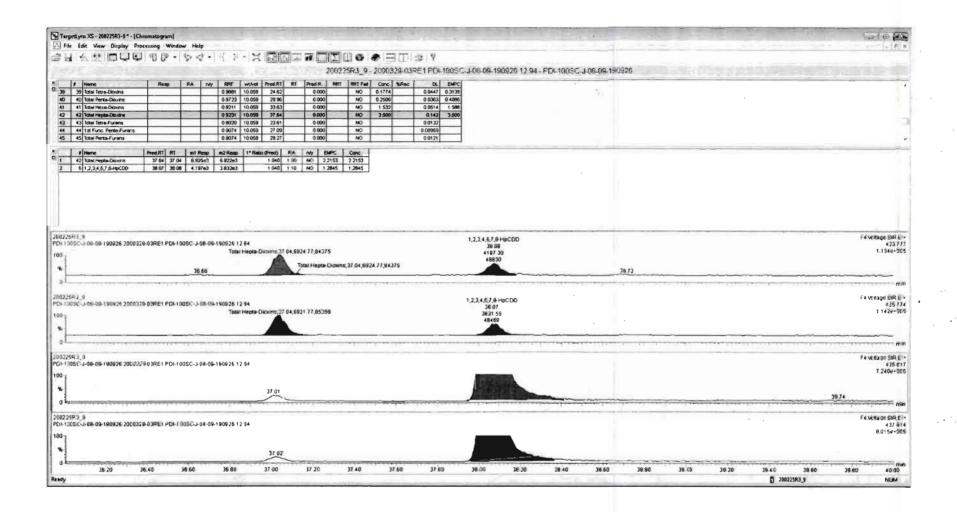




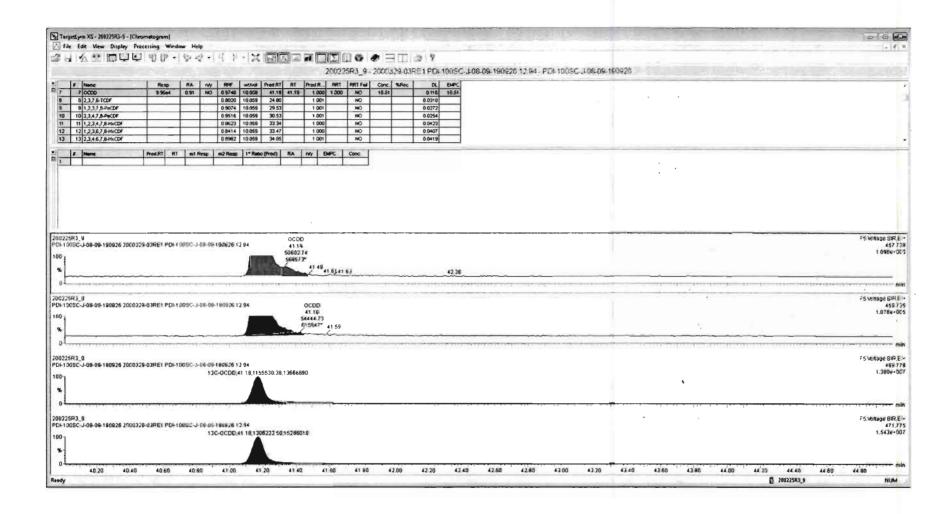
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Wednesday, February 26, 2020 08 42 24 Pacific Standard Time         me: 200225R3_9, Date: 25-Feb-2020, Time: 19:25:44, ID: 2000329-03RE1 PDI-100SC-J-08-09-190926 12.94, Description: PDI-100SC-J-08-09-190926         K1       12:25R3_9       21:17:4 3663;128825       21:17:4 3663;128825       21:17:4 3663;128825       21:17:4 3663;128825       21:17:4 3663;128825       21:07:24:13:2003 162282       26:21:2:2:4:8:30142 27:19:5:31:63:157/12       F1:Voltage         Vednesday, February 26, 02:00       21:17:4 3663;128825       21:17:4 3663;128825       24:07:24:13:2003 162282       26:21:2:2:4:8:30142 27:19:5:31:63:157/12       F1:Voltage         Vednesday, February 26:00       20:00       21:17:4 3663;128625       24:07:24:13:2003 162282       26:21:2:2:4:8:30142 27:19:5:31:63:157/12       F1:Voltage         Vednesday, February 26:00       20:00       21:00:2:10:00       21:00:2:10:00       21:00:2:10:00       27:6:10:30:77:30:29:70       29:00       29:00       29:00       29:00       29:00       29:00       29:00       29:00       29:00       29:00       29:00 <th< th=""><th>ataset: Untitled</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	ataset: Untitled							
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$ \begin{array}{c} 211743563,128255 2_{136},2244,84064,140000 2266,2336,464e3,140862 24072473,320e3,162262 46,12,2463,30102,21,15,318,31,51,12,27,64,32,12,12,12,12,12,12,12,12,12,12,12,12,12$							F	1.Voltage SIR
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$F_{2} voltage$ $F_{3} voltage$ $F_{4} voltage$ $F_{5} voltage$		20.50 21.00 21.50	22.00 22.50 23.00 23	.50 24.00 24.50	25.00 25.5	0 26.00 26.50	27.00	27.50
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$\begin{array}{c} 28.00 & 28.20 & 28.40 & 28.60 & 28.80 & 29.00 & 29.20 & 29.40 & 29.60 & 29.80 & 30.00 & 30.20 & 30.40 & 30.60 & 30.80 & 31.00 & 31.20 & 31.40 & 31.60 & 31.20 \\ \hline \textbf{X3}\\ \hline \textbf{X3}$								
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$1.0$ $32.00  32.25  32.50  32.75  33.00  33.25  33.50  33.75  34.00  34.25  34.50  34.75  35.00  35.25  35.50  35.75$ $K4$ $225R_{3.9}  37.57.3.87e6.1678708  37.57.3.87e6.1678708  37.57.3.87e6.1678708  37.57.3.87e6.1678708  38.34  38.51  38.80  38.68  39.09  39.22  39.33  39.61  39.65  76$ $36.11  36.20  36.40  36.60  36.80  37.00  37.20  37.40  37.60  37.80  38.00  38.20  38.40  38.60  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.20  38.40  38.60  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.20  38.40  38.60  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.20  38.40  38.60  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.20  38.40  38.60  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.20  38.40  38.60  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.20  38.40  38.60  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.20  38.40  38.60  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.20  38.40  38.60  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  39.80  38.80  39.00  39.20  39.40  39.60  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.80  39.$	225R3_9	32.57	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		24 70 24 00 /	35.05 35.31	F	3:Voltage SIR
$\begin{array}{c} 3200 & 3225 & 3250 & 3275 & 3300 & 3325 & 3350 & 3375 & 3400 & 3425 & 3450 & 3475 & 3500 & 3525 & 3550 & 35,75 \\ \hline \textbf{K4} \\ 225R3_9 & & & F4:Voltage \\ \hline \textbf{37.57.3.87e6.1678708} & 37.57.3.87e6.1678708 & 37.57.3.87e6.1678708 & 38.34 & 38.51 & 38.80 & 38.88 & 39.09 & 39.22 & 39.33 & 39.61 & 39.65 & 76 \\ \hline \textbf{36.11} & & & & & & & & & & & & & & & & & & $	32.28;1.12e6;281434	5 32.75 33.09	33.48 33.69	33.99 34.3134.42	34.79.34.92	34.97 35.37	35 56 35.70	0 <u>380.9</u> 1,026e+
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$ \begin{array}{c} \textbf{K4} \\ 225R_{3} 9 \\ 37.57,3 87e6;1678708 \\ 38.80 \\ 38.80 \\ 38.80 \\ 39.00 \\ 39.20 \\ 39.40 \\ 39.60 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 39.80 \\ 40.84 \\ 41.02 \\ 41.19 \\ 41.40 \\ 41.60 \\ 41.78 \\ 41.83 \\ 42.09 \\ 42.19 \\ 42.39 \\ 42.19 \\ 42.39 \\ 42.61 \\ 42.72 \\ 42.87 \\ 43.09 \\ 43.16 \\ 43.34 \\ 43.67 \\ 43.91 \\ 44.01 \\ 44.23 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 44.51 \\ 4$		50 3275 33.00	33 25 33 50 33 75	34.00 34.25 34.6	50 34 75	35.00 35.25	35.50 35	.75 36.0
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Dataset:	U:\VG12.PRO\Results\20	00225R3\200225R3-10.qld	
Last Altered: Printed:		5, 2020 13:29:13 Pacific Standard Time 5, 2020 14:00:39 Pacific Standard Time	BL 02/26/2020
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#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200225R3\_10, Date: 25-Feb-2020, Time: 20:13:11, ID: 2000329-04RE1 PDI-100SC-J-09-10-190926 14.55, Description: PDI-100SC-J-09-10-190926

	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.988	10.131	25.75		1.00		NO			0.0393	
2	2 1,2,3,7,8-PeCDD				0.972	10.131	30.84		1.00		NO			0.0483	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.131	34.21		1.00		NO			0.0465	
4	4 1,2,3,6,7,8-HxCDD				0.921	10.131	34.30		1.00		NO			0.0490	
5	5 1,2,3,7,8,9-HxCDD	556.519	1.136	NO	0.918	10.131	34.61	34.59	1.00	1.00	NO	0.07873		0.0531	0.07900
6	6 1,2,3,4,6,7,8-HpCDD	5092.767	1.066	NO	0.923	10.131	38.09	38.11	1.00	1.00	NO	0.8451		0.145	0.8450
7	7 OCDD	40850.853	0.866	NO	0.975	10.131	41.18	41.19	1.00	1.00	NO	7.379		0.102	7.379
8	8 2,3,7,8-TCDF				0.802	10.131	24.80		1.00		NO			0.0307	
9	9 1,2,3,7,8-PeCDF				0.907	10.131	29.53		1.00		NO			0.0268	
10	10 2,3,4,7,8-PeCDF				0.952	10.131	30.53		1.00		NO			0.0255	
11	11 1,2,3,4,7,8-HxCDF				0.862	10.131	33.34		1.00		NO			0.0379	
12	12 1,2,3,6,7,8-HxCDF				0.841	10.131	33.47		1.00		NO			0.0381	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.131	34.06		1.00		NO			0.0389	
14	14 1,2,3,7,8,9-HxCDF	270.080	1.027	YES	0.858	10.131	34.91	34.92	1.00	1.00	NO	0.04102		0,0533	0.03800
15	15 1,2,3,4,6,7,8-HpCDF				0.851	10.131	36.69		1.00		NO			0.0563	
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.131	38.72		1.00		NO			0.0647	
17	17 OCDF	627.581	1.042	YES	0.806	10.131	41.36	41.38	1.00	1.00	NO	0.1176		0.9711	0.1090
18	18 13C-2,3,7,8-TCDD	2261411.6	0.781	NO	1.20	10.131	25.69	25.72	1.03	1.03	NO	186.6	94.5	0.112	
19	19 13C-1,2,3,7,8-PeCDD	1783740.5	0.629	NO	0.967	10.131	30.43	30.82	1.22	1.23	NO	182.5	92.4	0.179	
20	20 13C-1,2,3,4,7,8-HxCDD	1303208.6	1.263	NO	0.874	10.131	34.20	34.20	1.01	1.01	NO	162.0	82.1	0.290	
21	21 13C-1,2,3,6,7,8-HxCDD	1622716.8	1.261	NO	1.05	10.131	34.31	34.30	1.02	1.02	NO	168.5	85.4	0.242	
22	22 13C-1,2,3,7,8,9-HxCDD	1519682.2	1.250	NO	0.974	10.131	34.61	34.57	1.03	1.02	NO	169.4	85.8	0.260	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1288771.6	1.056	NO	0.747	10.131	38.18	38.08	1.13	1.13	NO	187.3	94.9	0.357	
24	24 13C-OCDD	2242932.1	0.900	NO	0.707	10.131	41.09	41.18	1.22	1.22	NO	344.8	87.3	0.302	
25	25 13C-2,3,7,8-TCDF	2784497.0	0.784	NO	1.07	10.131	24.87	24.78	0.99	0.99	NO	184.3	93.4	0.235	
26	26 13C-1,2,3,7,8-PeCDF	2376039.0	1.579	NO	1.00	10.131	29.46	29.51	1. <b>18</b>	1.18	NO	167.3	84.7	0.240	
27	27 13C-2,3,4,7,8-PeCDF	2324509.9	1.599	NO	0.962	10.131	30.42	30.50	1.21	1.22	NO	170.4	86.3	0.250	
28	28 13C-1,2,3,4,7,8-HxCDF	1659933.6	0.513	NO	1.05	10.131	33.33	33.34	0.99	0.99	NO	171.9	87.1	0.357	
29	29 13C-1,2,3,6,7,8-HxCDF	1845815.7	0.520	NO	1.19	10.131	33.43	33.46	0.99	0.99	NO	168.5	85.4	0.315	
30	30 13C-2,3,4,6,7,8-HxCDF	1753704.0	0.528	NO	1.07	10.131	34.04	34.03	1.01	1.01	NO	178.7	90.5	0.351	
31	31 13C-1,2,3,7,8,9-HxCDF	1515371.6	0.516	NO	0.922	10.131	34.95	34.91	1.04	1.03	NO	178.5	90.4	0.406	

Page 1 of 2

#### **Quantify Sample Summary Report** Vista Analytical Laboratory

## MassLynx MassLynx V4.1 SCN 945

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200225R3\200225R3-10.qld

Last Altered:	Wednesday, February 26, 2020 13:29:13 Pacific Standard Time
Printed:	Wednesday, February 26, 2020 14:00:39 Pacific Standard Time

## Name: 200225R3\_10, Date: 25-Feb-2020, Time: 20:13:11, ID: 2000329-04RE1 PDI-100SC-J-09-10-190926 14.55, Description: PDI-100SC-J-09-10-190926

	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1320013.7	0.444	NO	0.767	10.131	36.70	36.65	1.09	1.09	NO	186.9	94.7	0.360	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1043657.8	0.437	NO	0.552	10.131	38.72	38.72	1.15	1.15	NO	205.3	104	0.501	
34	34 13C-OCDF	2615752.0	0.887	NO	0.789	10.131	41.32	41.36	1.23	1.23	NO	359.9	91.2	0.309	
35	35 37CI-2,3,7,8-TCDD	861318.188			1.18	10.131	25.72	25.74	1.03	1.03	NO	72.41	91.7	0.0362	
36	36 13C-1,2,3,4-TCDD	1996314.5	0.793	NO	1.00	10.131	25.11	25.05	1.00	1.00	NO	197.4	100	0.134	
37	37 13C-1,2,3,4-TCDF	2799482.2	0.785	NO	1.00	10.131	23.37	23.28	1.00	1.00	NO	197.4	100	0.250	
38	38 13C-1,2,3,4,6,9-HxCDF	1817372.1	0.515	NO	1.00	10.131	33.71	33.73	1.00	1.00	NO	197.4	100	0.375	
39	39 Total Tetra-Dioxins				0.988	10.131	24.62		0.00		NO	0.1243		0.0393	0.1240
4	40 Total Penta-Dioxins				0.972	10.131	29.96		0.00		NO			0.0223	
41	41 Total Hexa-Dioxins				0.921	10.131	33.63		0.00		NO	0.8123		0.0518	1.054
42	42 Total Hepta-Dioxins				0.923	10.131	37.64		0.00		NO	2.364		0.145	2.364
43	43 Total Tetra-Furans				0.802	10.131	23.61		0.00		NO			0.0140	
44	44 1st Func. Penta-Furans				0.907	10.131	27.09		0.00		NO			0.0106	
45	45 Total Penta-Furans				0.907	10.131	29.27		0.00		NO			0.0120	
46	46 Total Hexa-Furans				0.898	10.131	33.56		0.00		NO	0.0000		0.0192	0.06700
47	47 Total Hepta-Furans				0.851	10.131	37.83		0.00		NO			0.0308	

## Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

## Dataset: U:\VG12.PRO\Results\200225R3\200225R3-10.qld

Last Altered: Wednesday, February 26, 2020 13:29:13 Pacific Standard Time Printed: Wednesday, February 26, 2020 14:00:22 Pacific Standard Time

## Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200225R3\_10, Date: 25-Feb-2020, Time: 20:13:11, ID: 2000329-04RE1 PDI-100SC-J-09-10-190926 14.55, Description: PDI-100SC-J-09-10-190926

## **Tetra-Dioxins**

CONTRACT OF	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	1.41e3	2.26e6	0.837	NO	24.62	23.46	0.1243	0.1240

## **Penta-Dioxins**

2 Carlier	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

## **Hexa-Dioxins**

and the second	# Name	Area	IS Area	RA	Y'/N	Pred.RT	RT	Conc.	EMPC
1	5 1,2,3,7,8,9-HxCDD	5.57e2	1.52e6	1.136	NO	34.61	34.59	0.07873	0.07900
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	1.429	YES	33.63	33.54	0.0000	0.2410
3	41 Total Hexa-Dioxins	5.07e3	0.00e0	1.263	NO	33.63	32.74	0.7336	0.7340

## **Hepta-Dioxins**

Sec.	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	5.09e3	1.29e6	1.066	NO	38.09	38.11	0.8451	0.8450
2	42 Total Hepta-Dioxins	9.16e3	1.29e6	1.036	NO	37.64	37.06	1.519	1.519

## Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

## **Penta-Furans function 1**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

#### Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-10.qld

Last Altered: Wednesday, February 26, 2020 13:29:13 Pacific Standard Time Printed: Wednesday, February 26, 2020 14:00:22 Pacific Standard Time

Name: 200225R3\_10, Date: 25-Feb-2020, Time: 20:13:11, ID: 2000329-04RE1 PDI-100SC-J-09-10-190926 14.55, Description: PDI-100SC-J-09-10-190926

## Penta-Furans

1000	# Name	Area IS Are	a RA	Y/N	Pred.RT	RT	Conc.	EMPC
1								

#### **Hexa-Furans**

1. Carlos	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	2.70e2	1.52e6	1.027	YES	34.91	34.92	0.0000	0.03800
2	46 Total Hexa-Furans	0.00e0	0.00e0	1.698	YES	33.56	34.95	0.0000	0.02900

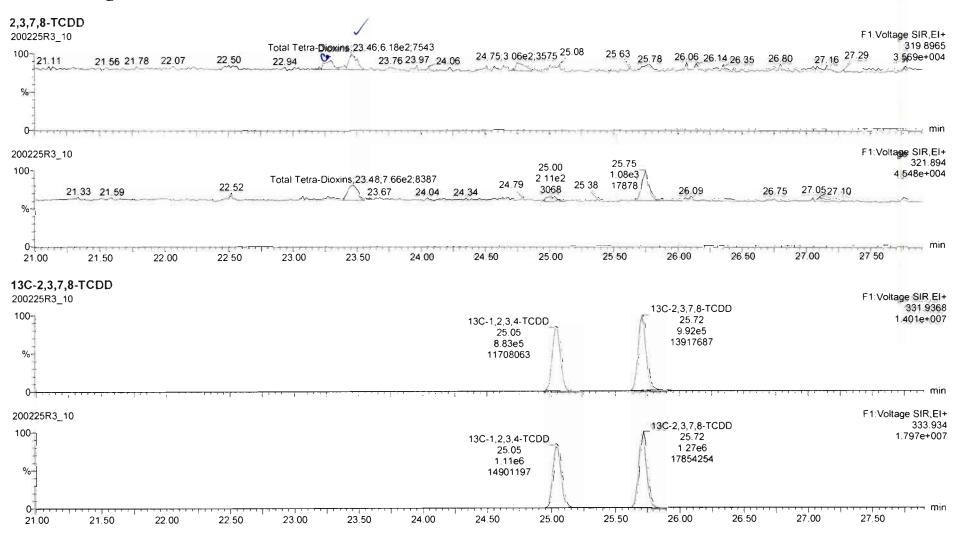
#### **Hepta-Furans**

2	# Name	Area	IS Area	IRA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Quantify Sam Vista Analytica	• •	1815	Page 1 of 13
Dataset:	Untitled		
Last Altered: Printed:	Wednesday, February 26, 2020 08:42 Wednesday, February 26, 2020 08:42	2:42 Pacific Standard Time 2:47 Pacific Standard Time	

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

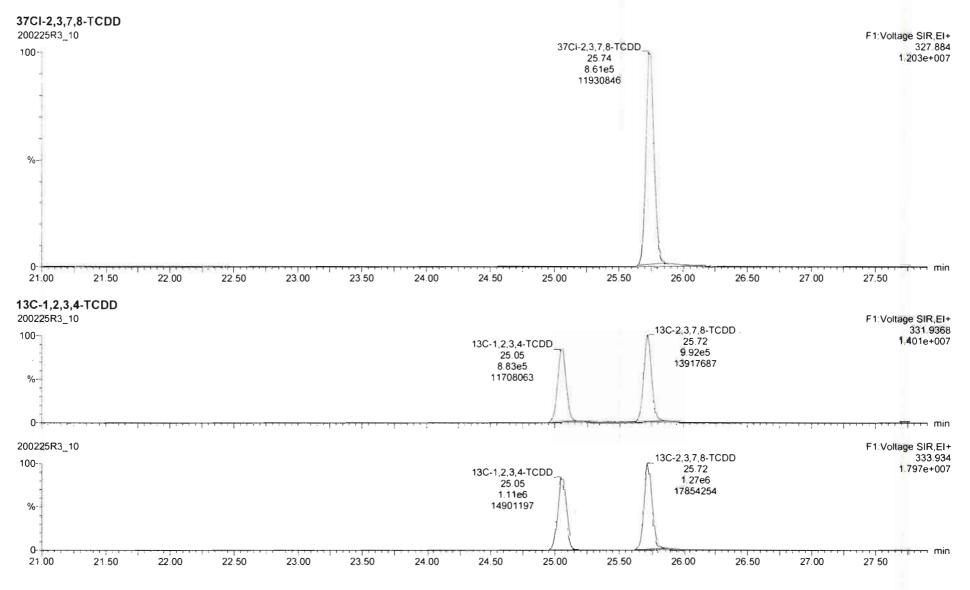
Name: 200225R3\_10, Date: 25-Feb-2020, Time: 20:13:11, ID: 2000329-04RE1 PDI-100SC-J-09-10-190926 14.55, Description: PDI-100SC-J-09-10-190926



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								2002	25R3_10	- 2000.	329.01F	RE 1 PDI-100SC-J-09-10-190925-14-55 - PDI-100SC-J-	09-10-190928	
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	39 Total Tetra-Dioxins		1	0 9001		24 62		0.000	NO	0 1223		0 0393 0 1223		
40	40 Total Penta-Dicuans			0 9723	10.131	29.96		0.000	NO	0.0000		0.0223 0.09006		
41	41 Total Hexa-Dickins			0 9211	10.131	33.63		0000	NO	1.092	S-11	0.0518 1.092		
42	42 Total Hepta-Column	1		0 9231		37 64		0 000	NO	2 364		0.145 2.364		
43	43 Total Tetra-Furans			0.8020		23.61	_	0 000	NO		1.51	0 01 40		
44	44 1st Fund Penta-Furana			0.9074		27.09		0 000	NO			0.0106		
45	45 Total Penta-Furans	_	1.	0.9074	10 131	28.27		0 000	NO			0 01 20		
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1.	19 22 19 31 19 22 19 31 19 22 19 31 19 32 19 31 19 51 19 81		20.38			21 14	21.50	6 21 78	22.07 22 :	27.5	50 22 62	Total Yetra-Dicionis, 73.46, 840 05, 7038* 23.94 23.27 23.30 23.76 23.97 24.06 24.51 24.54 23.76 23.97 24.06 24.51 24.54	1 2475 28.08 25.33 25.63 28.78 26.06 26.14	<sup>21</sup> 1 (c)tage sore E- 319 Bold 35664-074 26.36 26.76,26 30 27 08-07 16 27 28 27 68 21 77 26.36 26.76,26 30 27 08-07 16 27 28 27 68 21 77 26.36 26 76 26 20 27 08-07 16 27 28 27 68 21 77 26 20 20 20 20 20 20 20 20 20 20 20 20 20
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% 61 C	19.22 19.52 19.7	5 19 91 20 24	20.32	20.62 201		21,3	3 21	59 21.84	22.02 22.	22	52 22 64		2 24 79 25 FB 25 21 20 38 25 56 26 05 26 09 76 21	26 62 26 75 27 85 27 10 27 40 27 67 27 76
61 E		5 15.91 20.24	20.32	20.62 201	·	21.3	3 21 5	59 21.84	22.02 22.	22	52 22 64	8387 1 22.98 23 07 23 27 23 67 23 83 24 04 24 34 24 4	2 24 79 25 00 25 11 26 38 25 56 26 05 26 09 26 21	Part and the second
61 E	IR3_10		~			21.3	3 21 5	59 21.84	22.02 22.	22	52 22 64	27.98 23.07 23.27 73.67 23.83 24.04 24.34 24.34	2 24.79 25 FB 25.31 25 38 25.56 26.05 26.09 36.33	F1 VERIAGE SIR E-
61 200224 PD+10			~			21,3	3 21.2	59 21.84	22.02 22.	17 22 	52 22 64	27.58 23.07 23.27 23.67 23.69 24.54 74.34 24.5		riwelfage SiR E- 351 gaile
61 E	IR3_10		~			21,3	3 21.	59 21.84	22.02 22.	17 22	52 22 64	27.88 23.07 23.27 23.67 23.83 24.54 24.34 24.4	2 24 79 25 FT 25.71 25 38 25 55 25 55 26 05 26 09 26 33	F1 VERIAGE SIR E-
61 200224 PDI-10	IR3_10		~			21.3	3 21	59 21.84	22.02 22.	17 22 	52 22 64	27.98 73.07 23.27 23.67 73.63 24.04 24.34 24.4		riwelfage SiR E- 351 gaile
61 200224 PD+10	IR3_10		~			21,3	3 21	59 21 84	22.02 22.	17 22	52 22 64	1 22.98 23.07 23.27 23.67 23.69 24.54 74.34 24.5		riwelfage SiR E- 351 gaile
61 200224 PDI-10	IR3_10		~			21,3	3 21.5	59 21 84	22.02 22.	17 22 	52 22 64	27.58 23.07 23.27 23.67 23.83 24.54 74.34 74.3		riwelfage SiR E- 351 gaile
61 200224 PD+10 100 %	IR3 10 DSC-J-09-10-190926 2000		~			21.3	3 21.5	59 21 84	22.02 22.	17 22	52 22 64	27.88 73.07 23.27 23.67 73.63 24.54 24.34 24.4		n ventago SIR E- 31 ventago SIR E- 321 e 2010 1 venta - enta min
61 200224 PD+10 100 % 0	IR3_10 25C-J 09-10-190926 2000	29-04RE1 PDI-	10850-0-9	F10-190828	14.55	21.3	3 27.5	59 21.84	22.02 22.	17 22 	52 22 64	27.98 23.07 23.27 23.67 23.67 23.69 24.54 74.34 24.5		rru F1 venaue GR E 3 F alma 1 461 + 901 
61 200229 PD+10 56 0 200229 PD+10	IR3 10 DSC-J-09-10-190926 2000	29-04RE1 PDI-	10850-0-9	F10-190828	14.55	21.3	3 21.5	59 21.84	22.02 22	17 22 	52 22.64	27.58 23.07 23.27 23.87 23.83 24.04 74.34 74.3		num F1 ventapo SR Ex 331 e 284 1 4 di e - 301 F1 ventajan SR E- 343 g- 343 g- 343 g-
61 200224 PD+10 100 % 0	IR3_10 25C-J 09-10-190926 2000	29-04RE1 PDI-	10850-0-9	F10-190828	14.55	21,3	3 21.5	59 21 84	22.02 22	17 22 	52 22.64	27.58 23.07 23.27 23.67 23.63 24.64 74.34 24.6	26 05 13C-2,3,7,8-TCDD, 26.72,861558 44 (3817687	num F1 ventapo SR Ex 331 e 284 1 4 di e - 301 F1 ventajan SR E- 343 g- 343 g- 343 g-
61 200229 PD+10 56 0 200229 PD+10	IR3_10 25C-J 09-10-190926 2000	29-04RE1 PDI-	10850-0-9	F10-190828	14.55	21,3	<u>1</u> <u>n</u>	59 71 84	22.02	17 22 	52 22 64	27.98 23.07 23.27 23.87 23.87 23.83 24.54 74.34 24.5	26 05 13C-2,3,7,8-TCDD, 26.72,861558 44 (3817687	num F1 ventapo SR Ex 331 e 284 1 4 di e - 301 F1 ventajan SR E- 343 e 25 343 e 25
61 200224 PD+10 100 % 0 200226 PDH10 109	IR3_10 25C-J 09-10-190926 2000	29-04RE1 PDI-	10850-0-9	F10-190828	14.55	21,3	<u>1</u> <u>n</u>	59 21 84	22.02 22.	17 22 	52 22 54	27.58 23.07 23.27 23.87 23.83 24.04 74.34 74.34	26 05 13C-2,3,7,8-TCDD, 26.72,861558 44 (3817687	num F1 ventapo SR Ex 331 e 284 1 4 di e - 301 F1 ventajan SR E- 343 e 25 343 e 25
61 200224 PD+10 100 % 0 200224 PD+10 100	IR3 10 CSC J-09-10-190926 2000 SR3 10 CSC J-09-10-120926 2000	129-04RE1 PDI-	1.005/C-J-0*	5-10-190828 5-10-190828	14 55							22.99 23.07 23.27 23.67 23.63 24.04 24.34 24.4	25.05 13C-2,3,7,8-TCDD 25.72,951556 44 13917687 25.05 13C-2,3,7,8-TCDD 25.72,951556 44 13917687 25.05 13C-2,3,7,8-TCDD:25 72:1269853 25:17854254	71 vertago SiR E- 321 g 200 1 4 di e-dol 1 4 di e-dol 1 4 di e-dol 1 1 vertagan BiR E- 314 di 2 314 di 3 314 di
61 200224 PD+10 100 % 0 200224 PD+10 100	IR3_10 25C-J 09-10-190926 2000	129-04RE1 PDI-	10850-0-9	5-10-190828 5-10-190828	14.55							273.68 23.07 23.27 23.67 23.87 23.63 24.04 74.34 24.5 273.67 23.69 24.04 74.34 24.5 25 23.05 23.34 23.69 23.75 24.00 24.25 24.59	25.05 13C-2,3,7,8-TCDD 25.72,951556 44 13917687 25.05 13C-2,3,7,8-TCDD 25.72,951556 44 13917687 25.05 13C-2,3,7,8-TCDD:25 72:1269853 25:17854254	num F1 ventapo SR Ex 331 e 284 1 4 di e - 301 F1 ventajan SR E- 343 e 25 343 e 25

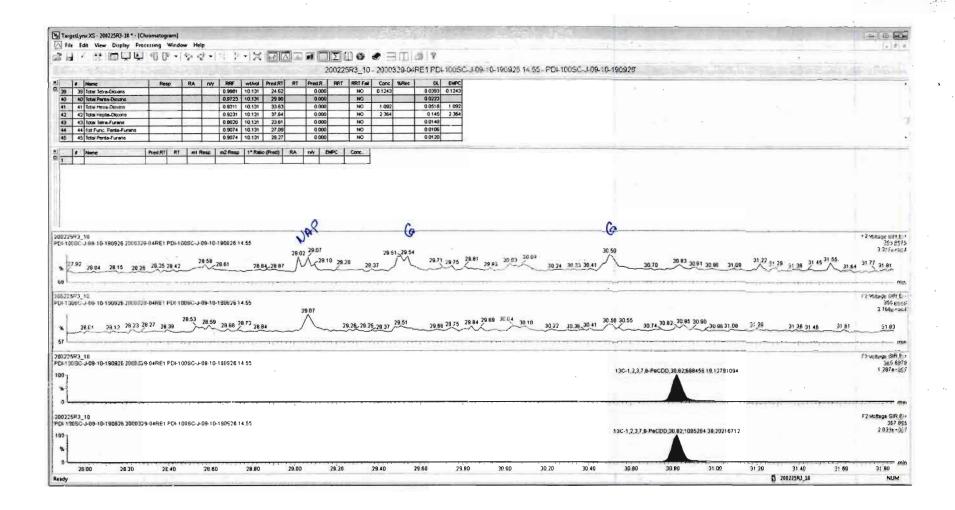
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Name: 200225R3\_10, Date: 25-Feb-2020, Time: 20:13:11, ID: 2000329-04RE1 PDI-100SC-J-09-10-190926 14.55, Description: PDI-100SC-J-09-10-190926



sta Analytica	al Laboratory MassLyn	1x 4.1 SCN815						Page 3 of 1
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00	28.23 28.39 28.53 28.59 28.68	29.07;5.73e2;10434	29.75 29.84	30.10 Total Penta-Di	ioxins;30.50;2.07e2;4005	31.20	31.61	355.85 3.768e+0
28.01	20.25 And	23.20	m		- Man Man			
%-								
0	28 20 28 40 28 60 28 8	30 29.00 29.20	29 40 29 60 29 80	30 00 30 20 30	40 30.60 30.80 31	00 31.20 31.40	0 31.60	
28.00	28.20 28.40 28.60 28.8 -PeCDD	30 29.00 29.20 2	29.40 29.60 29.80	30.00 30.20 30	.40 30.60 30.80 31.	00 31.20 31.40	0 31.60	
0 28.00 3C-1,2,3,7,8		30 29.00 29.20 2	29.40 29.60 29.80			00 31.20 31.4(		31.80 /oltage SIR,E
0 28.00 3C-1,2,3,7,8 00225R3_10		30 29.00 29.20 2	29.40 29.60 29.80		3C-1,2,3,7,8-PeCDD_ 30.82 ♪	00 31.20 31.40		31.80 /oltage SIR,E 365.89
0 28.00 3C-1,2,3,7,8 00225R3_10		30 29.00 29.20 2	29.40 29.60 29.80		3C-1,2,3.7,8-PeCDD_ 30.82 6.88e5	00 31.20 31.40		31.80 /oltage SIR,E 365.89
0 28.00 3 <b>C-1,2,3,7,8</b> 00225R3_10		30 29.00 29.20 2	29.40 29.60 29.80		3C-1,2,3,7,8-PeCDD_ 30.82 ♪	00 31.20 31.40		31.80 /oltage SIR,E 365.89
0 28.00 3 <b>C-1,2,3,7,8</b> 00225R3_10		30 29.00 29.20 2	29.40 29.60 29.80		3C-1,2,3.7,8-PeCDD_ 30.82 6.88e5	00 31.20 31.40		31.80 /oltage SIR,E 365.89
<b>3C-1,2,3,7,8</b> 00225R3_10		30 29.00 29.20 2	29.40 29.60 29.80		3C-1,2,3.7,8-PeCDD_ 30.82 6.88e5	00 31.20 31.40		31.80 /oltage SIR,E 365.89 1.287e+0
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0		30 29.00 29.20 2	29.40 29.60 29.80		3C-1,2,3,7,8-PeCDD 30.82 6.88e5 12791094 3C-1,2,3,7,8-PeCDD	00 31.20 31.40	F2 <sup>.</sup> \	31.80 /oltage SIR,E 365.89 1.287e+00 /oltage SIR,E 367.8
0 28.00 3C-1,2,3,7,8 00225R3_10 0 0 0 0 0 0 0 0 0 0 0 0 0		30 29.00 29.20 2	29.40 29.60 29.80		3C-1,2,3,7,8-PeCDD 30.82 6.88e5 12791094 3C-1,2,3,7,8-PeCDD 30.82 1.10e6	00 31.20 31.40	F2 <sup>.</sup> \	/oltage SIR,E 365.897 1.287e+00 /oltage SIR,E 367.89 2.033e+00
0 28.00 3C-1,2,3,7,8 00225R3_10 0 % 0 0 00225R3_10 000225R3_10		30 29.00 29.20 2	29.40 29.60 29.80		3C-1,2,3,7,8-PeCDD 30.82 6.88e5 12791094 3C-1,2,3,7,8-PeCDD 30.82	00 31.20 31.40	F2 <sup>.</sup> \	31.80 /oltage SIR,E 365.897 1.287e+00 
0 28.00 3C-1,2,3,7,8 00225R3_10 0 0 0 0 0 0 0 0 0 0 0 0 0		30 29.00 29.20 2	29.40 29.60 29.80		3C-1,2,3,7,8-PeCDD 30.82 6.88e5 12791094 3C-1,2,3,7,8-PeCDD 30.82 1.10e6	00 31.20 31.40	F2 <sup>.</sup> \	31.80 /oltage SIR,E 365.89 1.287e+00 /oltage SIR,E 367.8
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AN 1500

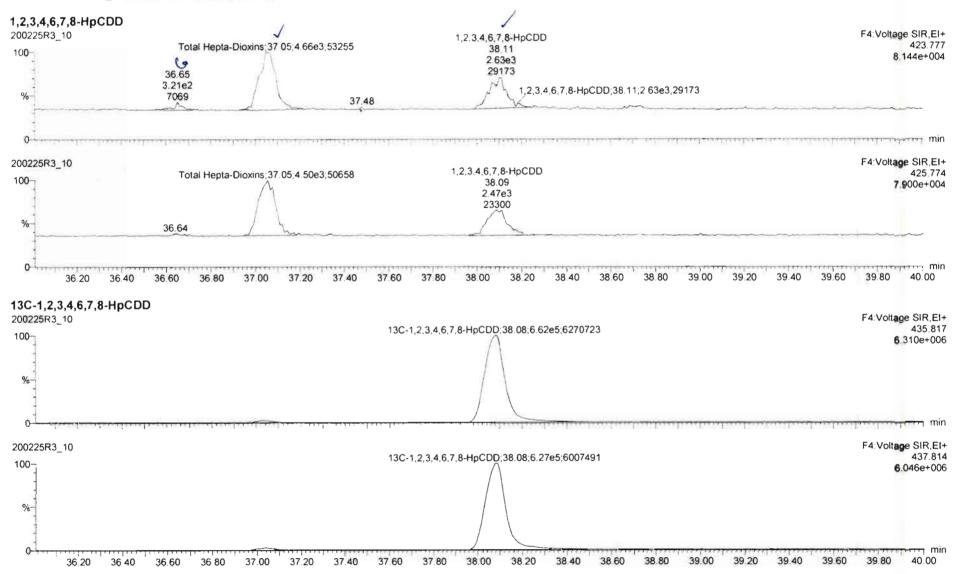


and the second 
Al Altered: Wednesday, February 26, 2020 08:42:42 Pacific Standard Time met: 200225R3_10, Date: 25-Feb-2020, Time: 20:13:11, ID: 2000329-04RE1 PDI-100SC-J-09-10-190926 14.55, Description: PDI-100SC-J-09-10-190926 13.47,8-HxCDD Total Hear-Doxins 32.74 56177 2.2642 56177 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 12.37,8.9+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+KxCDD 13.2,12.3,6,7.8+Kx	<b>uantify Sam</b> ista Analytica		MassLyn	x 4.1 SCN815										Pa	ge 4 of 1
Inted:       Wednesday, February 26, 2020 08:42:47 Pacific Standard Time         me: 20022583_10, Date: 25-Feb-2020, Time: 20:13:11, ID: 2000329-04RE1 PDI-100SC-J-09-10-190926 14.55, Description: PDI-100SC-J-09-10-190926         3.4,7,8-HxCDD       S3.278       12:37.8.9-HxCDD         3.3,7,7,8-HxCDD       F3.Voitage 5         3.3,7       3.4 02       3.4 32       2.396.3         3.2,28       10.863       2.32.28       10.863       2.32.28       3.364       2.37.8       12.37.8.9-HxCDD       5.34.91         3.2,28       3.364       3.32.4       2.39.63       2.39.91       5.34.91       5.34.91         1.22,37.8.9-HxCDD       S.364       3.3.24       3.3.64       3.3.64       3.3.91       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803       7.803	ataset:	Untitled													
3.4,7,8+HxCDD       F3 Voltage S         122878.3 10       Total Heas-Dooms       12.3,7.8,0+HxCDD       8.466         3.2,7.4       32.3,2       1.5.4       2.9662       3.6.7       3.6.9       3.6.9         22878.3 10       F3 Voltage S       12.3,7.8,0+HxCDD       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9       3.6.9 <t< th=""><th>ast Altered: rinted:</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	ast Altered: rinted:														
22583_10       F3 Voltage S         32.74       33.29         32.74       33.29         24062       15622         36.7       34.00         24062       15622         36.7       34.02         37.7       34.69         24062       15622         37.7       34.69         24062       15622         37.7       34.02         37.7       34.02         37.7       34.02         37.7       34.02         37.7       34.02         37.7       34.02         37.7       34.02         37.7       34.02         37.7       34.02         37.7       34.02         37.7       34.02         37.7       34.02         37.8       12.37.8.9-HxCDD         37.8       12.37.8.9-HxCDD         37.8       12.37.8.9-HxCDD         37.8       35.00         37.8       35.00         37.8       35.00         37.8       37.80         37.8       37.80         37.8       37.80         37.8       37.80 <tr< th=""><th>ame: 20022</th><th>5R3_10, Date</th><th>: 25-Feb-2020,</th><th>Time: 20:13:1</th><th>1, ID: 200032</th><th>29-04RE1 PDI</th><th>-100SC-J-09</th><th>10-1909</th><th>26 14.55, D</th><th>escriptior</th><th>n: PDI-1</th><th>00SC-J-(</th><th>09-10-190</th><th>926</th><th></th></tr<>	ame: 20022	5R3_10, Date	: 25-Feb-2020,	Time: 20:13:1	1, ID: 200032	29-04RE1 PDI	-100SC-J-09	10-1909	26 14.55, D	escriptior	n: PDI-1	00SC-J-(	09-10-190	926	
Total Hear-Dooms       Total Hear-Dooms       33,54         2,998.3       33,54       12,3,7,8,9+LxCDD       34,89         2,998.3       2,969.2       2,969.2       2,969.2       2,969.2         2,2573,10       F3 Voltage S       7,863       12,3,7,8,9+LxCDD       34,91         1001       Hear-Dooms       Total Hear-Dooms       7,863       34,91       34,91         102,2573,10       Total Hear-Dooms       12,3,7,8,9+LxCDD       34,93       34,91       34,91         102,2573,10       Total Hear-Dooms       12,3,7,8,9+LxCDD       34,93       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91       34,91 <td< td=""><td></td><td>CDD</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		CDD													
32.74       Total Heas Downs       12.3.7.8_9HxCDD       8.496         2.396.3       33.29       1.0663       2.364       2.3.69         2.4662       1.0623       2.3.67       34.02       34.31       5999       34.91         22583.10       5462       7.5362       2.3.67       34.02       34.31       5999       34.91         22583.10       Total Heas Downs       12.3.7.8_9HxCDD       7.583       7.582       2.4.502       2.4.502       7.583         22583.10       Total Heas Downs       1.2.3.7.8_9HxCDD       3.5.4       3.4.30       3.4.50       3.4.50       7.583         22583.10       Total Heas Downs       1.2.3.7.8_9HxCDD       7.583       7.583       7.583         32.40       32.56       32.26       33.00       33.40       33.60       34.00       34.20       34.40       34.60       34.80       35.00       35.20       35.40       35.60       3         32.40       32.60       32.60       33.60       33.60       34.00       34.20       34.40       34.60       34.80       35.00       35.20       35.40       35.60       3         225873.10       13C-12.3.6.7.8 HxCDD       13C-1.2.3.6.7.8 HxCDD       4.50       4.50 </td <td>Total</td> <td>lexa-Dioxins</td> <td></td> <td></td> <td>ND</td> <td></td> <td></td> <td></td> <td>/</td> <td></td> <td></td> <td></td> <td></td> <td>F3:Volta</td> <td>389.8 SIR,1</td>	Total	lexa-Dioxins			ND				/					F3:Volta	389.8 SIR,1
3 3 4 59 3 4 69 3 4 62 5 5 6 2 5 7 5 8 2 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	10-1	32.74		To				1,	10-	D				٤	8.496e+0
6       5462       33.67       34.02       34.31       5999       34.91         1225R3_10       F3 Voltage S       7583       12.37, 8.9+HxCDD       32.49       7583         2       2.783       Total Hexa-Doxins       12.37, 8.9+HxCDD       32.49       7583         32.96       33.28       1237       2.5262       2.5762       4434       4754         4       4/34       4/976       4/34       4756       35.40       35.60       35.20       35.40       35.60       13.52       7583         32.40       32.60       32.80       33.00       33.20       33.40       33.60       33.80       34.00       34.60       34.80       35.00       35.20       35.40       35.60       13.52       13.51         225R3_10       13C-1.2.3.6.7.8-HxCDD.34.30.9 0.5e5.13373825       13.57       13.51       13.51       13.51       13.51         12225R3_10       13C-1.2.3.6.7.8-HxCDD.34.30.7.18e5.10705720       4       4       10.61       13.61       13.61       13.61         136-1       136-1.2.3.6.7.8-HxCDD.34.30.7.18e5.10705720       4       10.61       10.61       10.61       10.61       10.61					1.06e3				34.59						
1001       F3 Voltage S         2276R3_10       Total Hexa-Dioxins         2 27e3       7 53e2         2 27e3       7 53e2         32.96       33.20         32.96       33.20         32.96       33.20         32.96       33.20         32.96       33.20         32.96       33.20         32.96       33.20         32.96       32.80         32.96       32.80         32.96       32.80         32.96       33.20         33.80       34.00         34.40       34.60         34.80       35.00         35.60       32.80         32.96       32.80         33.00       33.20         33.80       34.00         34.80       35.00         35.60       32.80         32.90       32.80         33.20       33.40         34.80       34.80         35.90       35.60         32.91       13C-1.2.3.6.7.8-HxCDD.34.30.9.0565(13373825         4       1367         132-1.2.3.6.7.8-HxCDD.34.30.7.18e5(10705720         1061       1061 <td>%</td> <td></td> <td></td> <td></td> <td></td> <td>33.67 34</td> <td>4.02 3</td> <td>4.31</td> <td></td> <td>34.9</td> <td>91</td> <td></td> <td>4.14</td> <td></td> <td></td>	%					33.67 34	4.02 3	4.31		34.9	91		4.14		
1001       F3 Voltage S         2276R3_10       Total Hexa-Dioxins         2 27e3       7 53e2         2 27e3       7 53e2         32.96       33.20         32.96       33.20         32.96       33.20         32.96       33.20         32.96       33.20         32.96       33.20         32.96       33.20         32.96       32.80         32.96       32.80         32.96       32.80         32.96       33.20         33.80       34.00         34.40       34.60         34.80       35.00         35.60       32.80         32.96       32.80         33.00       33.20         33.80       34.00         34.80       35.00         35.60       32.80         32.90       32.80         33.20       33.40         34.80       34.80         35.90       35.60         32.91       13C-1.2.3.6.7.8-HxCDD.34.30.9.0565(13373825         4       1367         132-1.2.3.6.7.8-HxCDD.34.30.7.18e5(10705720         1061       1061 <td></td>															
Total Hexa-Dioxins       33 54       34 30 12.3.7.8.9-HxCDD       7.582         2.27e3       7.53e2       2.52e2       2.57e2         32.40       32.96       33.20       33.40       33.60       34.00       34.20       34.40       34.60       34.80       35.00       35.20       35.40       35.60       3         32.40       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       3         C-1,2,3,4,7,8-HxCDD       32.267,310       13C-1.2,3.6,7,8-HxCDD,34.30,9.05e5,13373825       F3 Votage 5       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136       136	0-+++++++++++++++++++++++++++++++++++++				and and and a set			Territer					hard the state	ه، بند له مرد د ا	ى لىكىدا
32.74 47503       12.37, 89.9HxCDD       7.563         47503       7.522       2.522       2.5762         32.40       32.60       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       3         32.40       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       3         52.40       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       3         5225R3_10       13C-1.2,3.6,7,8-HxCDD,34.30,9.05e5,13373825       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.57       13.	0225R3_10	Jova Diavina												F3:Volta	age SIR, 391.
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#### Work Order 2000329

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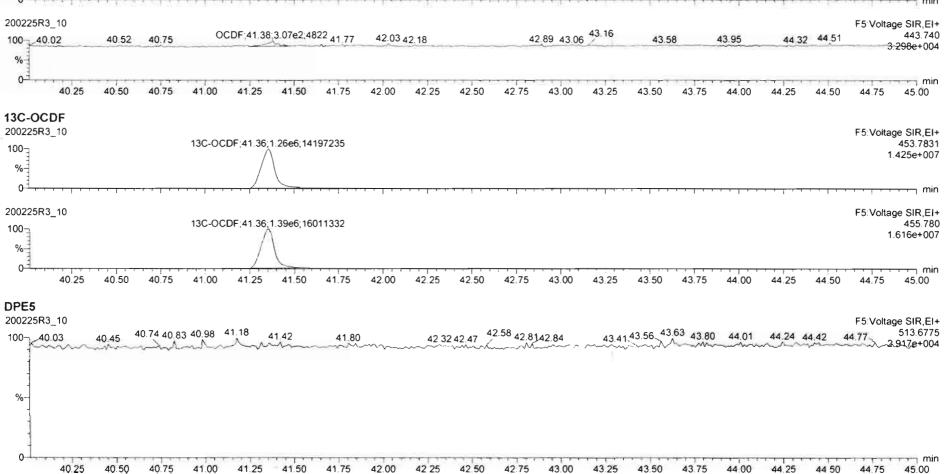
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Quantify Sample Summary Report	MassLynx MassLynx V4.1 SCN 945
Vista Analytical Laboratory	

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-11.qld

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#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

#### Name: 200225R3\_11, Date: 25-Feb-2020, Time: 21:00:35, ID: B0B0195-DUP1 Duplicate 14.48, Description: Duplicate

1272	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.988	10.082	25.75		1.00		NO			0.0415	
2	2 1,2,3,7,8-PeCDD				0.972	10.082	30.84		1.00		NO			0.0533	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.082	34.21		1.00		NO			0.0484	
4	4 1,2,3,6,7,8-HxCDD				0.921	10.082	34.31		1.00		NO			0.0495	
5	5 1,2,3,7,8,9-HxCDD				0.918	10.082	34.61		1.00		NO			0.0561	
6	6 1,2,3,4,6,7,8-HpCDD	2938.962	0.938	NO	0.923	10.082	38.08	38.08	1.00	1.00	NO	0.5153		0.0923	0.5153
7	7 OCDD	28205.508	0.855	NO	0.975	10.082	41.18	41.20	1.00	1.00	NO	5.523		0.0985	5.523
8	8 2,3,7,8-TCDF				0.802	10.082	24.80		1.00		NO			0.0345	
9	9 1,2,3,7,8-PeCDF				0.907	10.082	29.53		1.00		NO			0.0297	
10	10 2,3,4,7,8-PeCDF				0.952	10.082	30.54		1.00		NO			0.0288	
11	11 1,2,3,4,7,8-HxCDF				0.862	10.082	33.35		1.00		NO			0.0325	
12	12 1,2,3,6,7,8-HxCDF				0.841	10.082	33.48		1.00		NO			0.0317	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.082	34.06		1.00		NO			0.0333	
14	14 1,2,3,7,8,9-HxCDF	404.497	1.331	NO	0.858	10.082	34.91	34.92	1.00	1.00	NO	0.06091		0.0469	0.06091
15	15 1,2,3,4,6,7,8-HpCDF				0.851	10.082	36.69		1.00		NO			0.0576	
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.082	38.72		1.00		NO			0.0691	
17	17 OCDF	370.532	1.053	YES	0.806	10.082	41.36	41.37	1.00	1.00	NO	0.07650		0.0844	0.07042
18	18 13C-2,3,7,8-TCDD	2183176.5	0.779	NO	1.20	10.082	25.69	25.72	1.03	1.03	NO	191.3	96.4	0.152	
19	19 13C-1,2,3,7,8-PeCDD	1703635.8	0.621	NO	0.967	10.082	30.43	30.82	1.22	1.23	NO	185.0	93.3	0.236	
20	20 13C-1,2,3,4,7,8-HxCDD	1297460.1	1.278	NO	0.874	10.082	34.20	34.20	1.01	1.01	NO	167.7	84.5	0.364	
21	21 13C-1,2,3,6,7,8-HxCDD	1567147.1	1.267	NO	1.05	10.082	34.31	34.31	1.02	1.02	NO	169.3	85.3	0.304	
22	22 13C-1,2,3,7,8,9-HxCDD	1459497.1	1.230	NO	0.974	10.082	34.61	34.57	1.03	1.02	NO	169.2	85.3	0.326	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1225710.8	1.023	NO	0.747	10.082	38.18	38.07	1.13	1.13	NO	185.3	93.4	0.445	
24	24 13C-OCDD	2079078.8	0.869	NO	0.707	10.082	41.09	41.18	1.22	1.22	NO	332.4	83.8	0.416	
25	25 13C-2,3,7,8-TCDF	2712051.0	0.770	NO	1.07	10.082	24.87	24.78	0.99	0.99	NO	183.3	92.4	0.213	
26	26 13C-1,2,3,7,8-PeCDF	2299739.3	1.552	NO	1.00	10.082	29.46	29.51	1.18	1.18	NO	165.3	83.3	0.328	
27	27 13C-2,3,4,7,8-PeCDF	2275104.5	1.578	NO	0.962	10.082	30.42	30.51	1.21	1.22	NO	170.3	85.9	0.342	
28	28 13C-1,2,3,4,7,8-HxCDF	1606692.0	0.511	NO	1.05	10.082	33.33	33.35	0.99	0.99	NO	173.0	87.2	0.412	
29	29 13C-1,2,3,6,7,8-HxCDF	1835218.9	0.525	NO	1.19	10.082	33.43	33.47	0.99	0.99	NO	174.2	87.8	0.363	
30	30 13C-2,3,4,6,7,8-HxCDF	1666945.4	0.513	NO	1.07	10.082	34.04	34.03	1.01	1.01	NO	176.6	89.0	0.406	
31	31 13C-1,2,3,7,8,9-HxCDF	153 <b>5</b> 672.5	0.526	NO	0.922	10.082	34.95	34.91	1.04	1.04	NO	188.1	94.8	0.469	

Page 1 of 2

# Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory MassLynx MassLynx V4.1 SCN 945

Dataset: U:\VG12.PRO\Results\200225R3\200225R3-11.qld

Last Altered:	Friday, February 28, 2020 10:32:32 Pacific Standard Time
Printed:	Friday, February 28, 2020 10:35:10 Pacific Standard Time

#### Name: 200225R3\_11, Date: 25-Feb-2020, Time: 21:00:35, ID: B0B0195-DUP1 Duplicate 14.48, Description: Duplicate

-	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1249715.3	0.443	NO	0.767	10.082	36.70	36.65	1.09	1.09	NO	184.0	92.8	0.411	
33	33 13C-1,2,3,4,7,8,9-HpCDF	947991.563	0.450	NO	0.552	10.082	38.72	38.72	1.15	1.15	NO	193.9	97.7	0.570	
34	34 13C-OCDF	2385379.1	0.922	NO	0.789	10.082	41.32	41.36	1.23	1.23	NO	341.3	86.0	0.234	
35	35 37CI-2,3,7,8-TCDD	840061.563			1.18	10.082	25.72	25.74	1.03	1.03	NO	74.99	94.5	0.0666	
36	36 13C-1,2,3,4-TCDD	1889216.5	0.795	NO	1.00	10.082	25.11	25.05	1.00	1.00	NO	198.4	100	0.182	
37	37 13C-1,2,3,4-TCDF	2755298.2	0.794	NO	1.00	10.082	23.37	23.27	1.00	1.00	NO	198.4	100	0.227	
38	38 13C-1,2,3,4,6,9-HxCDF	1756151.1	0.517	NO	1.00	10.082	33.71	33.73	1.00	1.00	NO	198.4	100	0.432	
39	39 Total Tetra-Dioxins				0.988	10.082	24.62		0.00		NO	0.1058		0.0415	0.1058
40	40 Total Penta-Dioxins				0.972	10.082	29.96		0.00		NO	0.0000		0.0243	0.09678
41	41 Total Hexa-Dioxins				0.921	10.082	33.63		0.00		NO	0.7868		0.0537	0.7868
42	42 Total Hepta-Dioxins				0.923	10.082	37.64		0.00		NO	1.471		0.0923	1.471
43	43 Total Tetra-Furans				0.802	10.082	23.61		0.00		NO			0.0164	
44	44 1st Func. Penta-Furans				0.907	10.082	27.09		0.00		NO			0.0122	
45	45 Total Penta-Furans				0.907	10.082	29.27		0.00		NO			0.0153	
46	46 Total Hexa-Furans				0.898	10.082	33.56		0.00		NO	0.09176		0.0344	0.09176
47	47 Total Hepta-Furans				0.851	10.082	37.83		0.00		NO			0.0340	

Quantify Tota Vista Analytica	als Report MassLynx MassLynx V4.1 SCN 945 al Laboratory	Page 1 of 2
Dataset:	U:\VG12.PRO\Results\200225R3\200225R3-11.qld	
Last Altered: Printed:	Friday, February 28, 2020 10:32:32 Pacific Standard Time Friday, February 28, 2020 10:35:29 Pacific Standard Time	

## Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200225R3\_11, Date: 25-Feb-2020, Time: 21:00:35, ID: B0B0195-DUP1 Duplicate 14.48, Description: Duplicate

## **Tetra-Dioxins**

() The second	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	1.15e3	2.18e6	0.857	NO	24.62	23.45	0.1058	0.1058

## Penta-Dioxins

-	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.70e6	2.638	YES	29.96	29.49	0.0000	0.02497
2	40 Total Penta-Dioxins	0.00 <b>e</b> 0	1.70e6	0.373	YES	29.96	29.07	0.0000	0.07182

## **Hexa-Dioxins**

and the second	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	3.91e3	0.00e0	1.160	NO	33.63	32.74	0.5837	0.5837
2	41 Total Hexa-Dioxins	1.36e3	0.00e0	1.260	NO	33.63	33.55	0.2031	0.2031

## **Hepta-Dioxins**

-	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.94e3	1.23e6	0.938	NO	38.08	38.08	0.5153	0.5153
2	42 Total Hepta-Dioxins	5.45e3	1.23e6	1.084	NO	37.64	37.04	0.9557	0.9557

## **Tetra-Furans**

1. mm 2.	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	0								

## Penta-Furans function 1

10000000	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

## Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

## Dataset: U:\VG12.PRO\Results\200225R3\200225R3-11.qld

Last Altered:Friday, February 28, 2020 10:32:32 Pacific Standard TimePrinted:Friday, February 28, 2020 10:35:29 Pacific Standard Time

## Name: 200225R3\_11, Date: 25-Feb-2020, Time: 21:00:35, ID: B0B0195-DUP1 Duplicate 14.48, Description: Duplicate

## Penta-Furans

and the second second	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

## Hexa-Furans

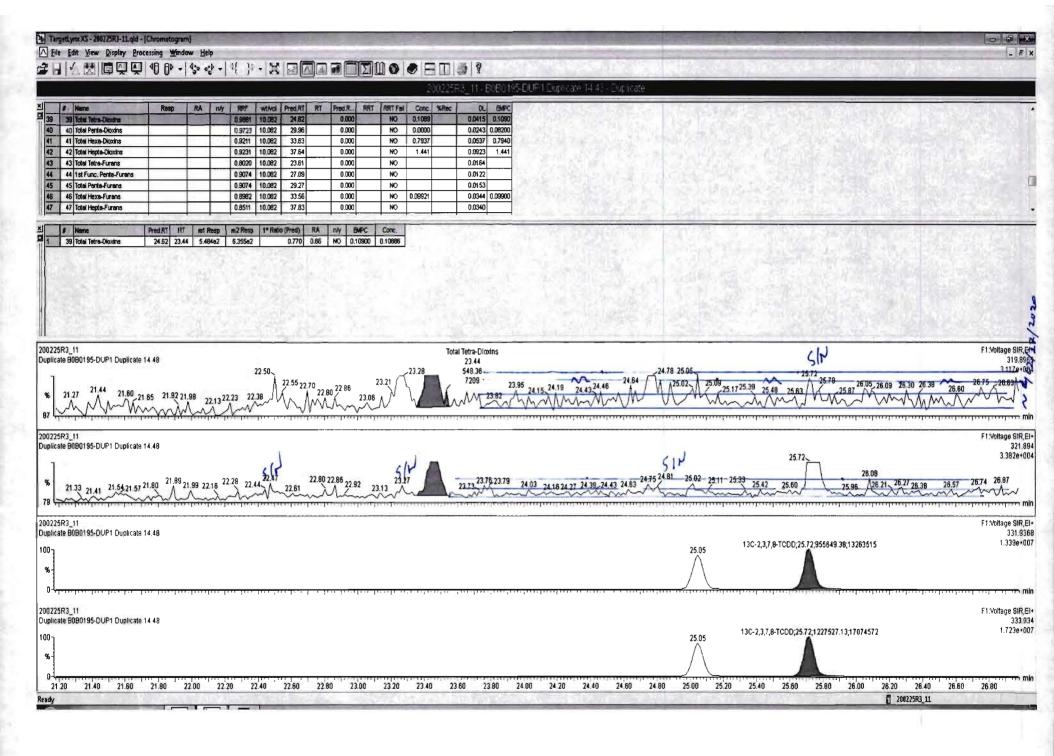
3-33	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	4.04e2	1.54e6	1.331	NO	34.91	34.92	0.06091	0.06091
2	46 Total Hexa-Furans	2.32e2	0.00e0	1.143	NO	33.56	34.95	0.03084	0.03084

## Hepta-Furans

# Name	N. ST 194 184	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
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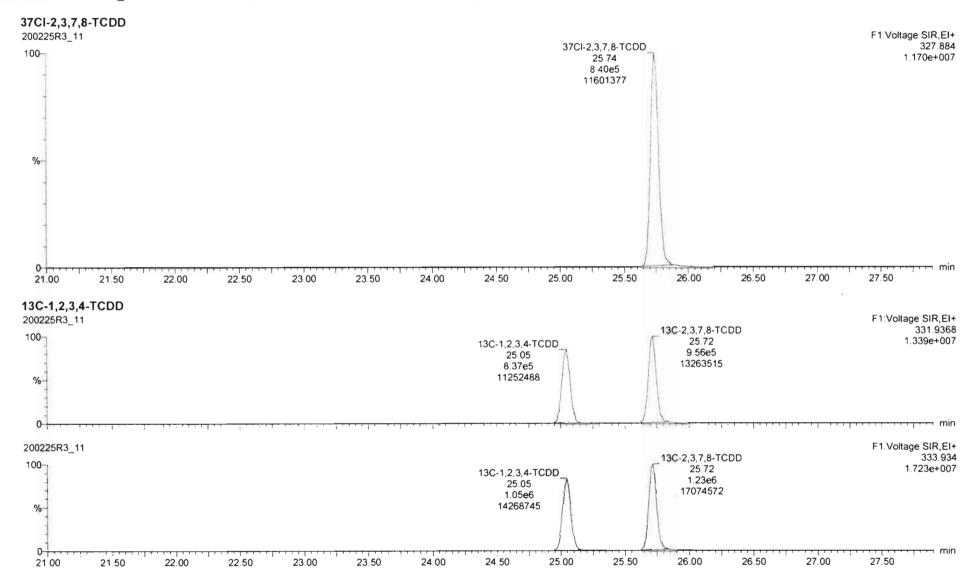
	al Laboratory MassLynx	4.1 SCN815			Page 1 of 1
ataset:	Untitled				
st Altered: inted:		020 08:43:04 Pacific Standard Time 020 08:43:07 Pacific Standard Time		ely 02-26-2020	
alibration: L	J:\VG12.PRO\CurveDB\db5_	2-14-20.mdb 14 Feb 2020 10:26:00 1613vg12-1-31-20.cdb 02 Feb 202	0 11:05:29		
	-	Time: 21:00:35, ID: B0B0195-DUP	1 Duplicate 14.48, Descri	- 2820	
3,7,8-TCDD 0225R3_11		l		SIN UN ORAT	F1:Voltage SIR,EI
00-21.27 2 %-	1.44 21.60 21.98 22.23 22.502	Total Tetra-Dioxins;23 45;5.48e2;7209 2 70 23.15 23.95	24.78;2.95e2;5064 24.46	25.48 25.72 26.05 26.30 <sup>26.60</sup> 26	75 26.96 27 14 27.50 3.523e+00
)225R3_11					F1:Voltage SIR,E
21,11	21.54 21.8921.99 22.47	Total Tetra-Dioxins;23.45;6.35e2;7878	24.75 25.02	25.72 1.05e3 16268 26.08 26.27 26.74	321.85 4.429e+00 26.87 <sup>26.98</sup>
%o-					
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
C-2,3,7,8-T	CDD				
0225R3_11				13C-2,3,7,8-TCDD	F1:Voltage SIR,E 331.936
			13C-1,2,3,4-TCDD 25.05	25.72 9.56e5	1.339e+00
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			8.37e5	13263515	
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6	•		8.37e5		F1:Voltage SIR,E
0	<del></del>		8.37e5 11252488	13263515 	F1:Voltage SIR,E 333.93
0	•••••••••••••••••••••••••••••••••••	······································	8.37e5 11252488 13C-1,2,3,4-TCDD 25.05	13263515 13C-2,3,7,8-TCDD 25.72 1.23e6	F1:Voltage SIR,E 333.93
6			8.37e5 11252488 13C-1,2,3,4-TCDD	13263515 13C-2,3,7,8-TCDD 25.72	F1:Voltage SIR,E 333.93
0 0 0 0 225 R 3_11			8.37e5 11252488 13C-1,2,3,4-TCDD 25.05 1.05e6	13263515 13C-2,3,7,8-TCDD 25.72 1.23e6	F1:Voltage SIR,E 333.90 1.723e+00

	Processing Wind		21 34				00.01				1.1			- Transform					- wit		
	5 0 0° -	d.o e.b .	1 3.				Щ <b>О</b>   •			B0195-DUP1	1 Dunicate	14.43.700	rate	9.2 E U	1.1.1.1	e (Engli) 9	5.0.1	HUNS			
P. Name	Resp	RA n/y	RRF	Adapt Dead F	7 87 9	and R BRT	POT Fail	Conc. %Rec				The too have	-			ww <u>w</u>					
19 39 Total Tetre-Dioxins	resp			0.082 24.5		000.0	NO	0.1058	0.0415 0		6.63.51										$\mathbf{F}_{\mathbf{r}}$
0 40 Total Penta-Dioxins			0.9723 1			0.000		0.0000	0.0243 0.				4.5.5		2.27	100					
41 Total Hexa-Dioxins	_			0.062 33.5		0.000	_	0.8874		9206										1902 54	
2 42 Total Hapta-Dioxins 3 43 Total Tetra-Furans	-			0.082 37.5		0.000 0.000	NO	1.471	0.0923	1.471			요구제							0.1.0000	
3 43 Total Tetra-Furans 44 1st Func Panta-Furans			0.0020 1			0.000	NO	_	0.0104	1000				No.							
# Name	Pred RT RT	mi Resp	m2 Resp	1* Ratio (Pred)	RA n	W BMPC	Conc.		- 1- 0 - 11		1911-13	10.77			19194	<u>.</u>		Te chick	-	ET USE	
39 Total Tetra-Dioxins	24.52 23.4	5 5.312e2	6.195e2	0.770	0.86 N	NO 0.10582	0.10582				10										
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and some products in which the second	the second se																The second second				
1225R3 11				-				1									1 A A				F1:Voltage S
1225R3_11 plicate B0B0195-DUP1 Duplica	ite 14.48			-									24.78				42				319
plicate B0B0195-DUP1 Duplica				22.50	20.00 2	22.86	23.21 23.28	١		22.05		24.64	24.78 24.82	2 25.05	25.3	25.63	512 25.78		200 25 20 26	38	319 3.323
Acate B0B0195-DUP1 Duplica		1,98 22,13 22	2.23 22.38	22.50 2	22.70 22.80 <sup>2</sup>	22.86 23.06	23.21 23.28	1	23.65_23.70	23.95 24.15	24.19 24.	24.64	24.78	25.05	5.09 <b>25.3</b>	25.4825.63	5/2 25.72 25.78	25.87 26.05-2	3.09 26.30 <sup>26</sup>	38 26.60 28	319 3.323
21.27 21.44 21.60		1.98 22.1322	2.23 22.38	22.50 2	22.70 22.80 2	22.86 23.06	23 21 23 28	1	23.65_23.70	23.95 24.15	24.19 24.	24.64	24.78 24.82	2 25.05	5.09 25.3	25.4825.63	5/2 25.72 25.78	25.87 26.05-2	3.09 26.30 <sup>26</sup>	26.60 28	31 3.323
Acate B0B0195-DUP1 Duplica		1.98 22.1322	2.23 22.38	22.50 2	22.70 22.80 <sup>2</sup>	22.86 23.06	23 21 23 28	1	23.65_23.70	23.95 24.15.	24.18 24.	24.64	24.78 24.82		5.09 25.3 25.3		5.7225.78	25.87 26.05-2	3.09 26.30 26	38 26.60 28	319 3.323
Incate B080195-DUP1 Duplica		1.98 <u>22.13</u> 27	2.23 22.38	22.50 2	22.70 22.80 2	22.86 23.06	<u>.</u>			23.95 24.15	24.18 24.	24.64	24.78				5 P 25.72 25.78	25.87 26.05_21	3.09 26.30 26	<sup>38</sup> 26.60 28	319 3.323
Akcate B080195-DUP1 Duplica	21.65 <sup>21.92</sup> 2	1.98 22.13 22	2.23 22.38	22.50 2	22.70 22.80 2	22.86 23.06	<u>.</u>	tal Tetra-Dioxi		23.95 24.15	24.18 24.	24.64	24.78				5 / P 25.72 25.78	25.87 26.05, 21	3.09 25.30 26	<sup>138</sup> 26.60 28	319 3.323 3.75 26.83 .75 26.83 F1:Voltage S
Incate B0B0195-DUP1 Duplica	21.65 <sup>21.92</sup> 2	1.98 22.13.22	2.23 22.38	22.50 2	22.70 22.80 2	22.86 23.06	<u>.</u>	tal Tetra-Dioxin 23.45		23.95 24.15		324.46	or or or				25.72 25.72	25.87 26.05, 21	3.09 25.30 <sup>26</sup>	<sup>138</sup> 26.60 28	319 3.323 3.75 26.83 F1:Voltage \$ 31
kcate B0B0195-DUP1 Duplica	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxi	15			324.46	or or or				25.72 25.78				319 3.323 1.75 _ 26.93
krate 8080195-DUP1 Duplica	21.65 <sup>21.92</sup> 2			22.50 2  22.47 22.61		<u>t</u>	<u>.</u>	tal Tetra-Dioxir 23.45 619.54		23.95 24.15.		324.46	or or or				25.72 25.78	26.08	26.27		319 3.323 1.75 _ 26.93
kcate B0B0195-DUP1 Duplica	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			24.54 1324.46 224.52 139 24.52 24.5	or of an				25.72 25.78				319 3.323 1.75 _ 26.93
Akcate B080195-DUP1 Duplica	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an				25.72 25.78				319 3.323 1.75 _ 26.93
Akcate B080195-DUP1 Duplica 21.27 21.44 21.60 1.225R3_11 Strate B080195-DUP1 Duplica 21.41 21.54 1225R3_11	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an				25.72 25.78				311 3.323 1.75 26.83 F1:Voltage S 3 4.429 74 26.87 26.91 F1:Voltage S
Akcate B080195-DUP1 Duplica 21.27 21.44 21.60 1.225R3_11 Strate B080195-DUP1 Duplica 21.41 21.54 1225R3_11	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an		25.33	25.42 25.80	25.72	26.08			311 3.323 1.75 26.83 F1 Voltage 5 3 4.429 74 26.87 26.91 F1 Voltage 5 3 3
Alcate B080195-DUP1 Duplica 21.27 21.44 21.60 21.27 21.44 21.60 1225R3_11 alcate B080195-DUP1 Duplica 21.41 21.54 1225R3_11 alcate B080195-DUP1 Duplica	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an		25.33		25.72	26.08			311 3.323 1.75 26.83 F1.Voltage S 31 4.429 74 26.87 26.94 F1.Voltage S 33
21.27         21.44         21.60           22583_11         21.41         21.54           22583_11         21.41         21.54           22583_11         21.41         21.54           22583_11         21.60         21.41           21.41         21.54         21.54           22583_11         30         21.41           21.54         21.54         21.54           22583_11         30         30	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an	25.02	25.33	25.42 25.80	25.72	26.08			311 3.323 1.75 26.83 F1.Voltage S 31 4.429 74 26.87 26.94 F1.Voltage S 33
krate B0B0195-DUP1 Duplica	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an	25.02	25.33	25.42 25.80	25.72	26.08			31 3.323 1.75 26.83 F1:Voltage 5 3 4.425 74 26.87 26.9 F1:Voltage 5 3 3
kcate B0B0195-DUP1 Duplica	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an	25.02	25.33	25.42 25.80	25.72	26.08			311 3.323 1.75 26.83 F1 Voltage 5 3 4.429 74 26.87 26.91 F1 Voltage 5 3 3
Akcate B0B0195-DUP1 Duplica 21.27 21.44 21.60 4 225R3_11 Africate B0B0195-DUP1 Duplica 225R3_11 Africate B0B0195-DUP1 Duplica 225R3_11 Africate B0B0195-DUP1 Duplica	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an	25.02	25.33	25.42 25.80	25.72	26.08			311 3.323 3.75 26.83 F1.Voltage § 3 4.429 74 26.87 26.91 F1.Voltage § 3 3 1 339
21.27       21.44       21.60         21.27       21.44       21.60         21.27       21.44       21.60         1025R3_11       11       10         21.41       21.54       21.41       21.54         21.25R3_11       21.41       21.54       10         21.25R3_11       21.60       10       10         225R3_11       21.61       21.61       21.61         21.25R3_11       21.61       21.61       21.61         225R3_11       21.61       21.61       21.61         2025R3_11       10       10       10       10	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an	25.02	25.33	25.42 25.80	25.72	26.08			311 3.323 3.75 26.83 F1.Voltage S 3.4429 74 26.87 28.91 F1.Voltage S 33 1 339
21.27 21.44 21.60 21.27 21.44 21.60 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_11 22.583_12 22.583_11 22.583_11 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583_12 22.583	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an	25.02	25.33 	25.42 25.60 	25.72,955649. 25.72,955649.	26.08	26.27		311 3.323 3.75 26.83 F1.Voltage S 33 4.429 74 26.87 26.95 F1.Voltage S 331 1.339
21.27     21.44     21.60       21.27     21.44     21.60       21.27     21.44     21.60       225R3_11     21.41     21.41       21.41     21.54     21.41       225R3_11     21.41     21.54       225R3_11     21.60     21.41       21.41     21.54       225R3_11     21.60       225R3_11     21.61       225R3_12     21.60       225R3_13     21.60       2025R3_14     21.61       2025R3_15     20.00       21.41     21.54	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an	25.02	25.33 	25.42 25.80	25.72,955649. 25.72,955649.	26.08	26.27		319 3.323 3.223 3.75 26.83 F1.Voltage S 32 4.429 74 26.87 26.98 F1.Voltage S 331 1 339
alicate B0B0195-DUP1 Duplica         alicate B0B0195-DUP1 Duplica         blackte B0B0195-DUP1 Duplica         classes         classes <td>21.65 21.92 2</td> <td></td> <td></td> <td></td> <td></td> <td><u>t</u></td> <td></td> <td>tal Tetra-Dioxir 23.45 619.54</td> <td>15</td> <td></td> <td></td> <td>324.46</td> <td>or of an</td> <td>25.02</td> <td>25.33 </td> <td>25.42 25.60 </td> <td>25.72,955649. 25.72,955649.</td> <td>26.08</td> <td>26.27</td> <td></td> <td>F1:Voltage Sf 319 3.323e 3.75 28.83 F1:Voltage Sf 32 4.429e F1:Voltage Sf 331 1 339e F1:Voltage Sf 331 1 339e F1:Voltage Sf 33 1 .723e</td>	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an	25.02	25.33 	25.42 25.60 	25.72,955649. 25.72,955649.	26.08	26.27		F1:Voltage Sf 319 3.323e 3.75 28.83 F1:Voltage Sf 32 4.429e F1:Voltage Sf 331 1 339e F1:Voltage Sf 331 1 339e F1:Voltage Sf 33 1 .723e
akcate B080195-DUP1 Duplica 21.27 21.44 21.60 1225R3_11 alcate B080195-DUP1 Duplica 21.41 21.54 21.41 21.54 21.25R3_11 alcate B080195-DUP1 Duplica 21.25R3_11 alcate B080195-DUP1 Duplica	21.65 21.92 2					<u>t</u>		tal Tetra-Dioxir 23.45 619.54	15			324.46	or of an	25.02	25.33 	25.42 25.60 	25.72,955649. 25.72,955649.	26.08	26.27		319 3.323 3.75 26.83 F1.Voltage S 31 4.429 74 26.87 26.96 F1.Voltage S 331 1 339 F1.Voltage S 331
Incate B0B0195-DUP1 Duplica	21.85 21.92 2	21.39 22	2.28 22.44	22.47 22.61	22 80 221	86 23.1	3 23.27	tal Tetra-Dioxi 23.45 619.54 7910	23.76	24.03	2	1.39 24.52 24.6	3 22 6 FB1	25.02	25.33 	25.42 25.60 -2,3,7,8-TCDD -2,3,7,8-TCDD;	25.72,955649 25.72,1227527 25.72,955649 25.72,1227527 25.72,1227527	26.08 28,13263515 13,17074572	26.27	<u>28.57</u> 26	31 3.323 3.75 26.83 F1.Voltage 1 3 4.425 74 26.87 26.9 F1.Voltage 1 33 1 336
Incate B0B0195-DUP1 Duplica	21.85 21.92 2		2.28 22.44	22.47 22.61	22 80 221	86 23.1		tal Tetra-Dioxi 23.45 619.54 7910	15	24.03	2	324.46	3 22 6 FB1	25.02	25.33 	25.42 25.60 	25.72,955649 25.72,1227527 25.72,955649 25.72,1227527 25.72,1227527	26.08 28,13263515 13,17074572	26.27	<u>26.57</u> <u>26</u>	31 3.32: 175 26.83 F1:Voltage 3 4.422 74 26.87 26.9 F1:Voltage 3 1 330 F1:Voltage 51:Voltage

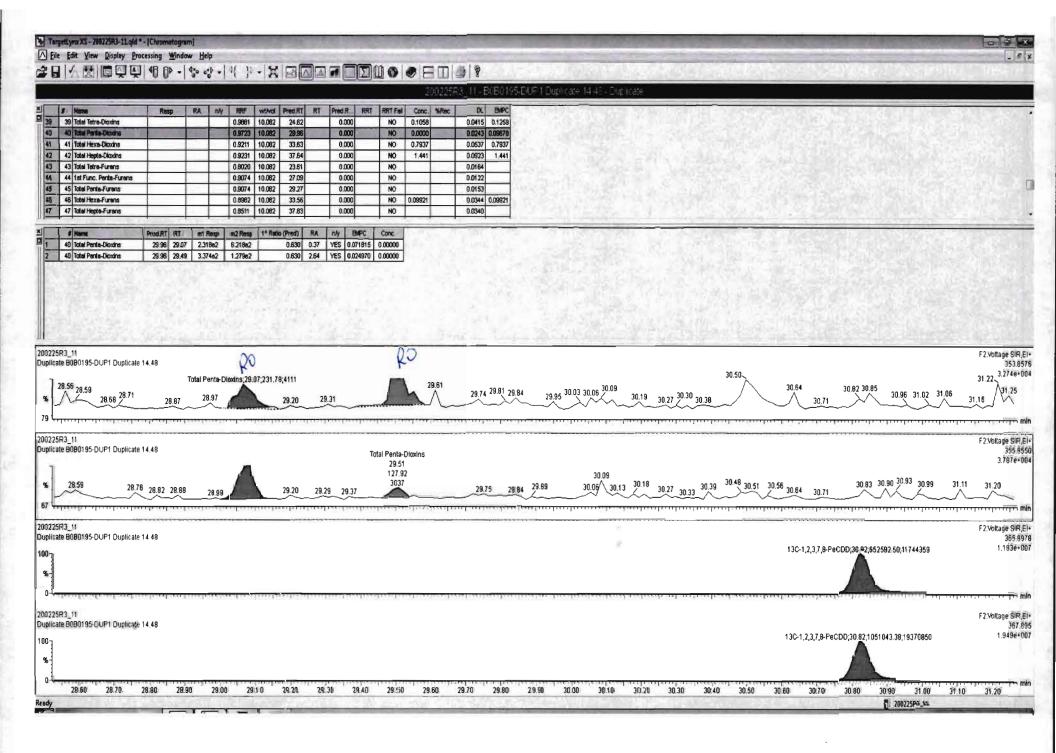


Quantify Sam Vista Analytica		Page 2 of 13
Dataset:	Untitled	
Last Altered:	Wednesday, February 26, 2020 08:43:04 Pacific Standard Time	
Printed:	Wednesday, February 26, 2020 08:43:07 Pacific Standard Time	

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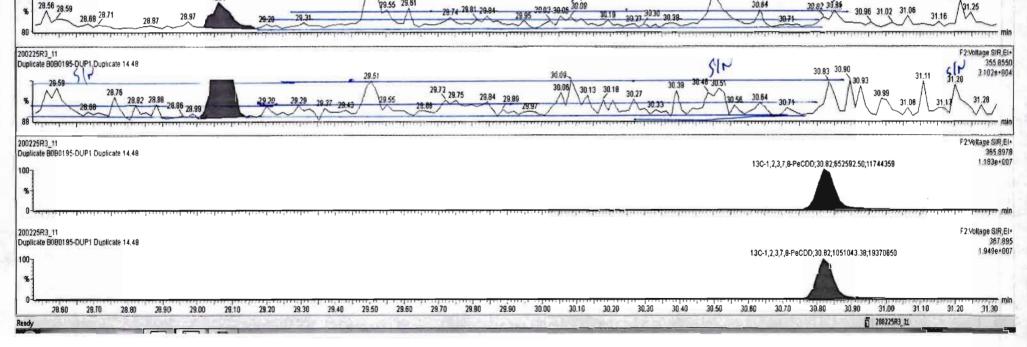


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., <b>3,7,8-PeC</b> 0225R3_11	DD		20	6	0					F2:Voltage SIR,EI+
0-1	Total Pent	a-Dioxins;29.07;2.65e2	2:4265	29.49;3 55	e2;7002	84 30.06	30.50;2.90e2;5732	5/N 30.85	31.06 31.22 31.25	353.8576 3.504e+004
%										min
0225R3_11		Total Penta-I	Dioxins;29.08;6	.22e2;14437		30.09 2.33e2		least from the second	5/2	F2:Voltage SIR,EI+ 355.8550
27.94	28,26	28.59 28.76 28.88	A	29.	51 29.75	2.33e2 5709	51P 30.27 30.39 30 51	30.83 30.90	31.11 31.20	4.200e+004
%- 	28.20 28.40	28.60 28.80	29.00 29.2	20 29.40	29.60 29.8	0 30.00 30	20 30.40 30.60	30.80 3	1.00 31.20 31.40	
0-1,2,3,7,8 0225R3_11	-PeCDD						13C-1,2,3,7,8-Pe 30.82 6,53e5 11744359			F2:Voltage SIR,EI+ 365.8978 1.183e+007
0	••••••••••••••••••••••••••••••••••••••				• • • • • • • • • • • • • • • • • • • •	<del></del>				F2:Voltage SIR,EI
0- 							13C-1,2,3,7,8-Pe 30,82 1,05e6 19370850			367.895 1.949e+007



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	# Neme	Resp	RA	nły	RRF	Interest	Pred.RT	PT I	Pred.R.	RRT	RRT Fal	Conc	ALPer	DV I	BMPC
	39 Total Tetra-Dioxins	neap	104	164			24.62		0.000	- Call	NO	0.1058	- Million	0.0415	
9	40 Total Partie-Dicxins	and the second second	-	1.1		10.082	29.96	-	0.000	1000	NO	0.0000	100	0.0243	
41	41 Total Hexa-Dioxins	-	-	_	0.9211	10.082	33.63		0.000		NO	0.7937	_	0.0537	
12	42 Total Hepta-Dioxins	-	-		0.9231	10.082	37.64		0.000		NO	1,441		0.0923	
13	43 Total Tetra-Furans	-	-		0.8020	10.082	23.61		0.000		NO			0.0164	_
44	44 1st Func. Pente-Furans	-			0.9074	10.082	27.09	-	0.000		NO			0.0122	
45	45 Total Penta-Furans			-	0.9074	10.082	29.27	-	0.000		NO			0.0153	
65	46 Total Hexa-Furans			-	0.8982	10.082	33.56		0.000		NO	0.09921		0.0344	0.09921
87	47 iotal Hepta-Furans	-			0.8511	10.082	37.83		0.000		NO			0.0340	_
	S Name			Resp 1	m2 Heen										
_	40 Total Penta-Dioxins	Pred.RT RT 29.96 29.			6.218e2		0.630		YES 0.0		Cane: 0 00000		1.1		
1	and a second sec														
	and a second sec	29.96 29.		48e2					YES 0.0	82055					



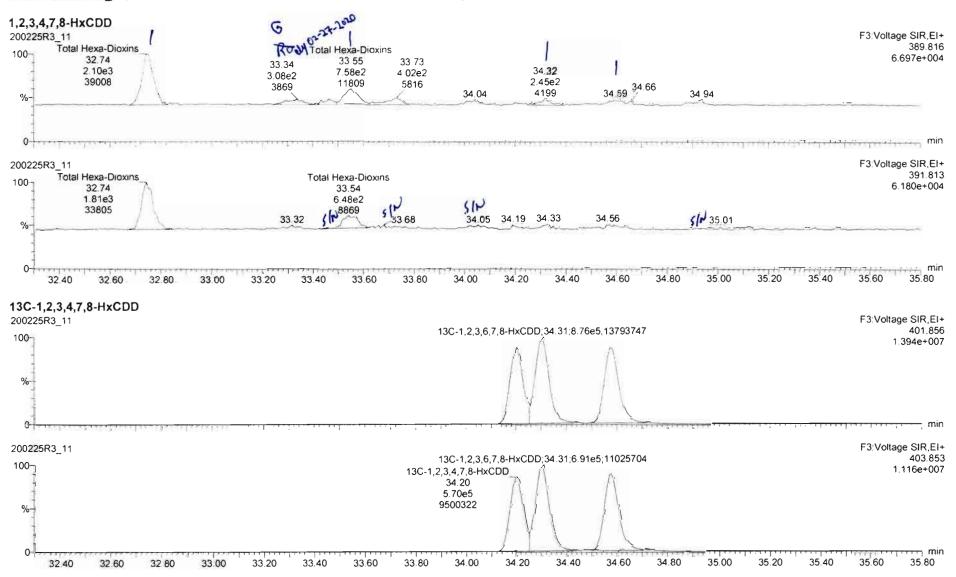
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F2:Voltage SIR,EI+ 353.8576

3.376e+004

Quantify Sam Vista Analytica		Page 4 of 13
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:43:04 Pacific Standard Time Wednesday, February 26, 2020 08:43:07 Pacific Standard Time	

#### Name: 200225R3\_11, Date: 25-Feb-2020, Time: 21:00:35, ID: B0B0195-DUP1 Duplicate 14.48, Description: Duplicate



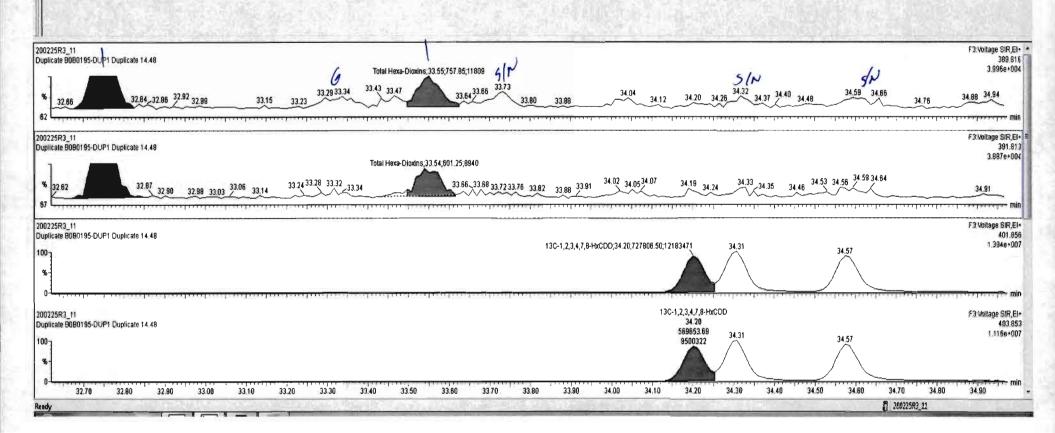
#### TargetLynx XS - 280225R3-11.qld \* - (Chromatogram)

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1			Name	Resp	RA	NY	RRF	WAND!	Pred RT	RT	Pred R	RRT	<b>RRT Fail</b>	Conc.	%Rec	DL	BMPC
i		41	Total Hann-Dickins	191	-		0.9211	10.082	33.63		0.000	1	NO	0.7868		0.0537	0.7868
42	T	42	Total Hepta-Dioxins			10	0.9231	10.082	37.64		0.000		NO	1.471		0.0923	1.471
43	T	43	Total Tetra-Furans				0.8020	10.082	23.61		0.000		NO			0.0164	
44	T.	44	1st Func. Penta-Furans				0.9074	10.082	27.09	-	0.000	-	NO			0.0122	
15	T	45	Total Penta-Furans			-	0.9074	10.082	29.27	-	0.000	8-6	NO			0.0153	
46		46	Total Hexa-Furans	1)			0.8982	10.082	33.56		0.000	-	NO	0.09176		0.0344	0.09176
47	T.	17	Total Lineta Cusan			-	0 0044	10.000	97 02		0.000	_	N/O			0.0240	

-		Name	Pred.RT	RT	mi Resp	m2 Resp	1º Rutio (Pred)	RA	NY	BMPC	Conc.
1	41	Total Hexa-Dioxins	33.63	32.74	2.098e3	1.809e3	1.240	1.16	NO	0.58370	0.58370
2	41	Total Hexa-Dioxins	33.63	33.55	7.578e2	6.012e2	1.240	1.26	NO	0.20306	0.20306



#### TargetLyrox XS - 200225R3-11.qld - [Chromatogram]

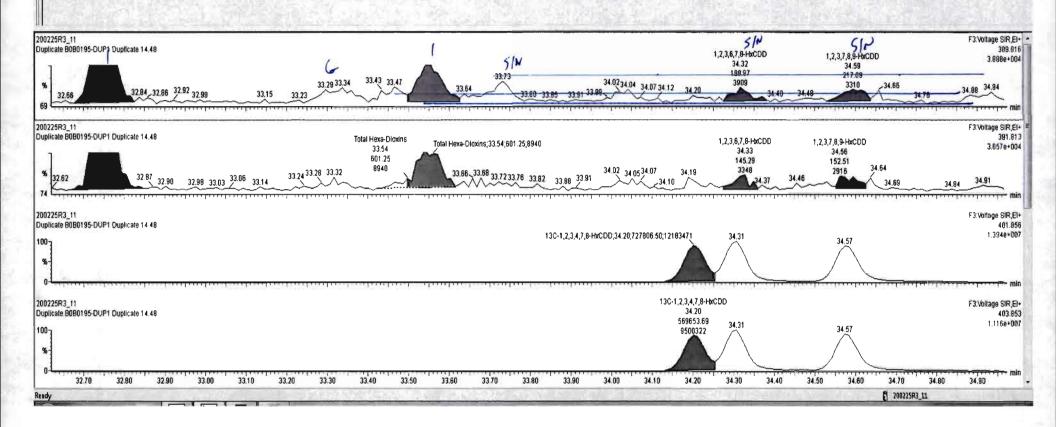
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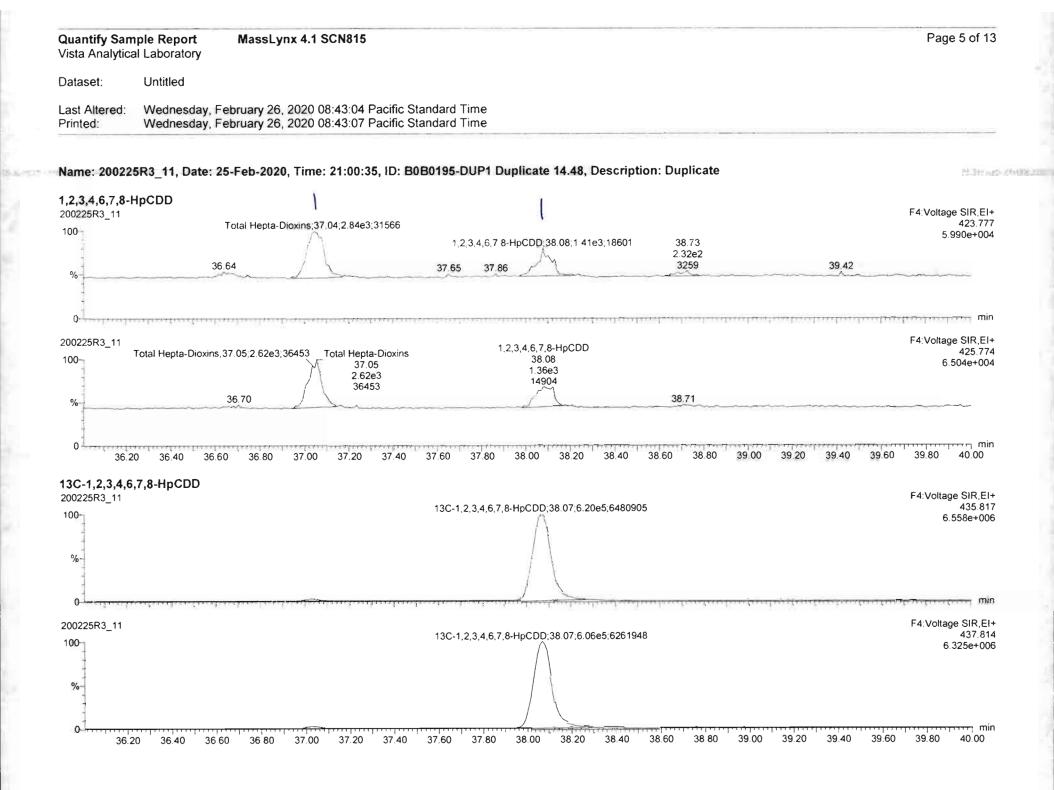
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	1	Name	Re	10	RA	Y RRF	wi/vol	Pred.RT	RT	Pred R	RRI	RRT Fel	Conc.	%Rec	OL	BMPC
61	114	1 Total Hans-Dicates				0.9211	10.082	33.83		0.00	0	NO	0.8874		9.0537	
42	4	2 Total Hepta-Dioxins	-			0.9231	10.082	37.64		0.00	0	NO	1.471		0.0923	1.471
43	4	3 Total Tetra-Furans			(	0.8020	10.082	23.61		0.00	0	NO	1000		0.0164	1
44	4	4 1st Func. Pente-Furans				0.9074	10.082	27.09	-	0.00	0	NO	1 - 2 -		0.0122	
45	4	5 Total Pente-Furans		2		0.9074	10.082	29.27	1	0.00	0	NO			0.0153	1.00
46	4	6 Total Hexa-Furans	1		1	0.6982	10.082	33.56	-	0.00	0	NO	0.09176		0.0344	0.09200
47	14	7 Todal Lineta Ersana	1			0.00044	1 40.000	97 09	-	1 0.00	nl	1 100	1	_	0.0240	-
	1	Name	Pred.RT	RT	mi Resp	m2 Resp	1º Reb	o (Pred)	RA	nly	BAPC	Conc.				0.01
1		4 1,2,3,6,7,8-HxCDD	34.31	34.32	1.890e2	1.453e2		1.240	1.30	NO	.046000	0.045932				
2		5 1,2,3,7,8,9-HxCDD	34.61	34.59	2.17182	1.525e2	- <u>1</u>	1.240	1.42	NO	.055000	0.054710	a all		23.8	
3	4	1 Total Hexa-Dioxins	33.63	32.74	2.098e3	1.809e3	1	1.240	1.16	NO	0.58400	0.58370	1			
		1 Total Hexa-Dioxins		33.55	7.578e2	6.012e2		1.240	1.26	NO	00000	0.20306				



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36.64     37.65     37.66     38.73       36.64     37.65     37.66     38.73       36.70     12.3.4.6.7,8-HpCDD     42.51       36.70     15.50     38.08       36.70     15.50     5.504e+1       36.70     154.33     5.504e+1       36.70     154.35     5.504e+1       36.70     154.35     5.504e+1       36.70     154.35     5.504e+1       36.70     154.35     5.504e+1       37.70     154.36     155.30       37.70     154.36     155.30       37.70     154.36     155.30       37.70     154.36     155.504.44       37.70     154.	00225R3_11 uplicate B0B0195-DUP1 Duplicate 14.48 00~	Total Hepta-Dioxins;37.	04;2835.21;31566						3 14	,7,8-HpCDD 8.08 22.63					F4:V	foltage SIR,El 423.77 5.980e+00
D0226R3_11       1,2,3,4,6,7,8-HpCDD       F4 Veltage SiR, 435         D026R3_11       38.08       425         D02       36.08       5504ert         D02       36.70       516.13         D0226R3_11       154.36       5504ert         D0226R3_11       154.36       5504ert         D0226R3_11       154.36       5504ert         D0226R3_11       154.36       5504ert         D0226R3_11       154.36       455         D0226R3_11       130-1,2,3,4,6,7,8-HpCDD.28,07,618674,44,6480905       6.558ert         D0226R3_11       130-1,2,3,4,6,7,8-HpCDD.28,07,606005,38,6,26194ef       6.325ert         D0226R3_11       130-1,2,3,4,6,7,8-HpCDD.28,07,606005,38,6,26194ef       6.325ert         D0226R3_11       130-1,2,3,4,6,7,8-HpCDD.28,07,606005,38,6,26194ef       6.325ert         D0226R3_11       130-1,2,3,4,6,7,8-HpCD.28,07,606005,38,6,26194ef       6.325ert			2	 	 37.65	j	37.	.86	1	8658					38.73	
0     30.00     5.504erd       36.70     1518.13       36.70     1518.13       0     1518.13       1518.13     154.38       0     1518.13       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     154.38       1518.13     155.58       1518.13     155.58       1518.13     155.58       1518.13     155.58       1518.13     155.58       1518.13     155.58       152.12.3.46.7.8-HpCDD.38.07.506035.38.6261948     5.325e-1       152.12.3.46.7.8-HpCDD.38.07.506035.38.6261948     5.325e-1	0-4			 	 ····			<del></del>						 	F4N	foltage SIR,El
11       F4/voltage SIR, 14 48         13C-1,2,3,4,6,7,8-HpCDD;38.07,619674.44,6480905       6.558e+1         13C-1,2,3,4,6,7,8-HpCDD;38.07,619674.44,6480905       6.558e+1         100225R3_11       13C-1,2,3,4,6,7,8-HpCDD;38.07,619674.44,6480905         100225R3_11       F4/voltage SIR, 14/14         13C-1,2,3,4,6,7,8-HpCDD,38,07,808035,38,8261948       6.325e+1	r I	Totai Hepta-Dioxins;37	7.06;2615 70;36453	 	 				15	18.13				 		6.504e+00
13C-1,2,3,4,6,7,8-HpCDD,38.07,619674,44,6480905 6.558e+4 13C-1,2,3,4,6,7,8-HpCDD,38.07,619674,44,6480905 6.558e+4 13C-1,2,3,4,6,7,8-HpCDD,38.07,606038,38,6261948 6.325e+1 13C-1,2,3,4,6,7,8-HpCDD,38.07,606038,38,6261948 6.325e+1	1															
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	10225R3_11 pricate B080195-DUP1 Duplicate 14 48 10 %-			 L. L. C. G. L. C. L.	 			13C-1,2,3,4		38.07;619674	.44;6480905		·····	 	<del>,,</del> F4:λ	
	0225R3_11 iplicate B080195-DUP1 Duplicate 14 48 0 0 1 0 0 25R3_11	international de la constante	<u>arıfını (rustan</u>	 1422-21-14-1 1	 								·····	 	<del>1</del> .	/oltage SIR, 435 8 6.558e+0 7

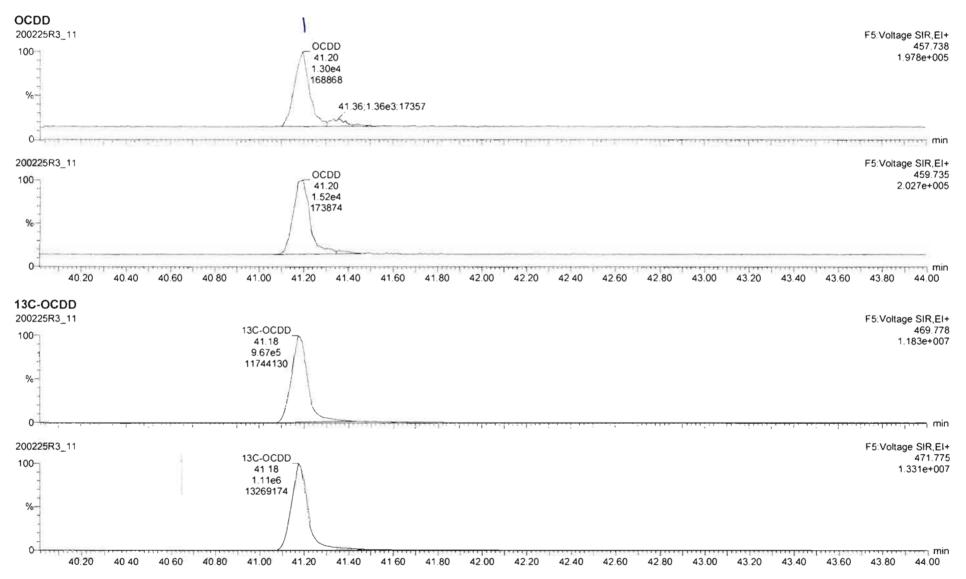
	# Nome	Pred.RT	RT	m1 Resp	m2 Resp	1º Ratio (Pred)	RA	nly	BMPC	Conc.
1	42 Total Hepta-Dioxins	37.54	37.04	2.835e3	2.616e3	1.040	1.08	NO	0.95569	0.95569
2	6 1,2,3,4,6,7,8-HpCDD	38.08	38.08	1.423e3	1.516e3	1.040	0.94	NO	0.51528	0.51528

		Name	Resp	RA	nly	FIRF	WIMO	Pred.RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	GMP
39	39	Total Tetra-Dioxins		1		0.9861	10.082	24.62		0.000	_	NO	0.1058		0.0415	0.125
40	40	Total Penta-Dioxins				0.9723	10.082	29.96		0.000		NO	0.0000		0.0243	0.09678
41	41	Total Haxa-Dioxins	toth make	-		0.9211	10.082	33.63		0.000		NO	0.8874		0.0537	0.9206
42	42	Tolini Hepta-Dioxins				0.9231	10.082	37.64		0.000		NO	1.471	C. LINE	0.0923	1.471
43	43	Total Tetra-Furans				0.8020	10.082	23.61		0.000		NO			0.0164	
44	44	1st Func. Penta-Furans			-	0.9074	10.082	27.09		0.000		NO			0.01 22	
45	45	Total Penta-Furans		1		0.9074	10.082	29.27		0.000	-	NO			0.0153	
48	46	Total Hexa-Furans				0.8982	10.082	33.56		0.000		NO	0.09921		0.0344	0.09921
47	47	Total Hepta-Furans		-		0.8511	10.062	37.83		0.000		NO			0.0340	

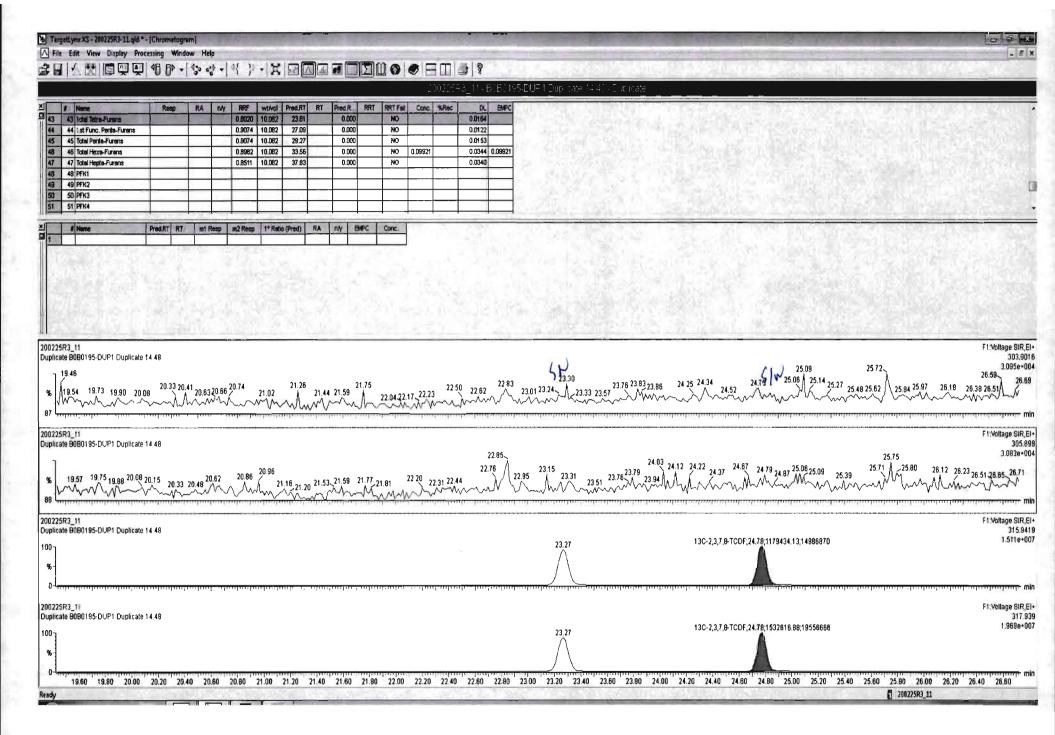
# TargetLynx XS - 20022SR3-11.qld \* - [Chromatogram] A File Edit View Display Processing Window Help 200225R3\_11+B0B0195-DUR1 Duplicate 14.45 - Duplicate

Quantify Sam Vista Analytica		Page 6 of 13
Dataset:	Untitled	
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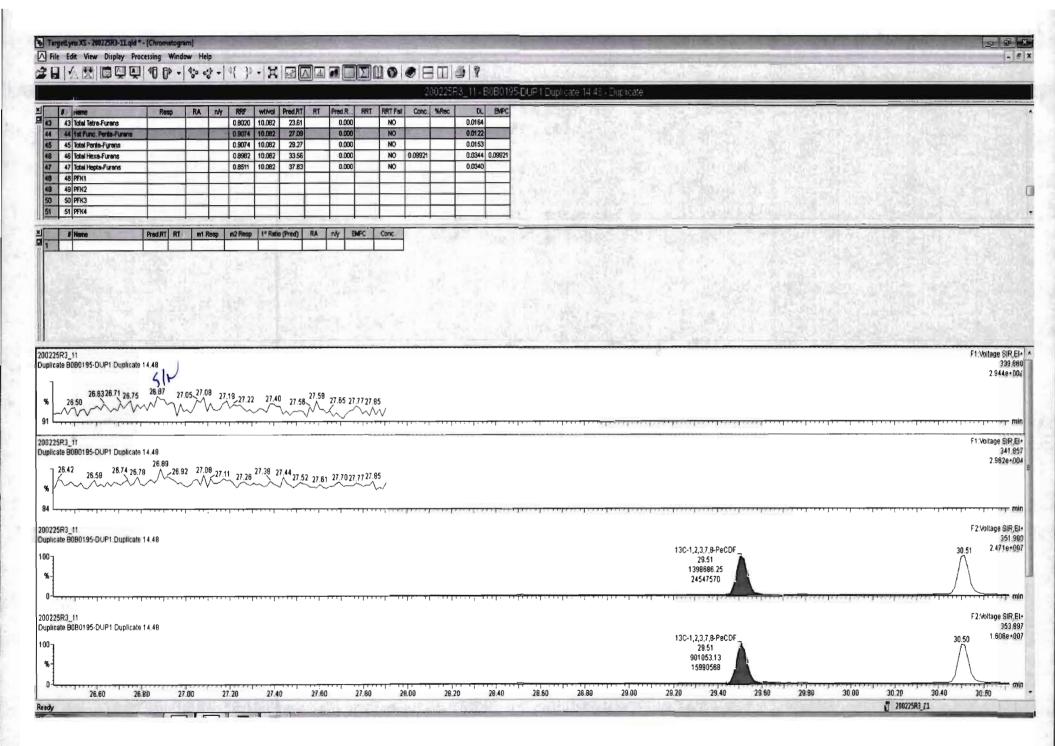
#### Name: 200225R3\_11, Date: 25-Feb-2020, Time: 21:00:35, ID: B0B0195-DUP1 Duplicate 14.48, Description: Duplicate



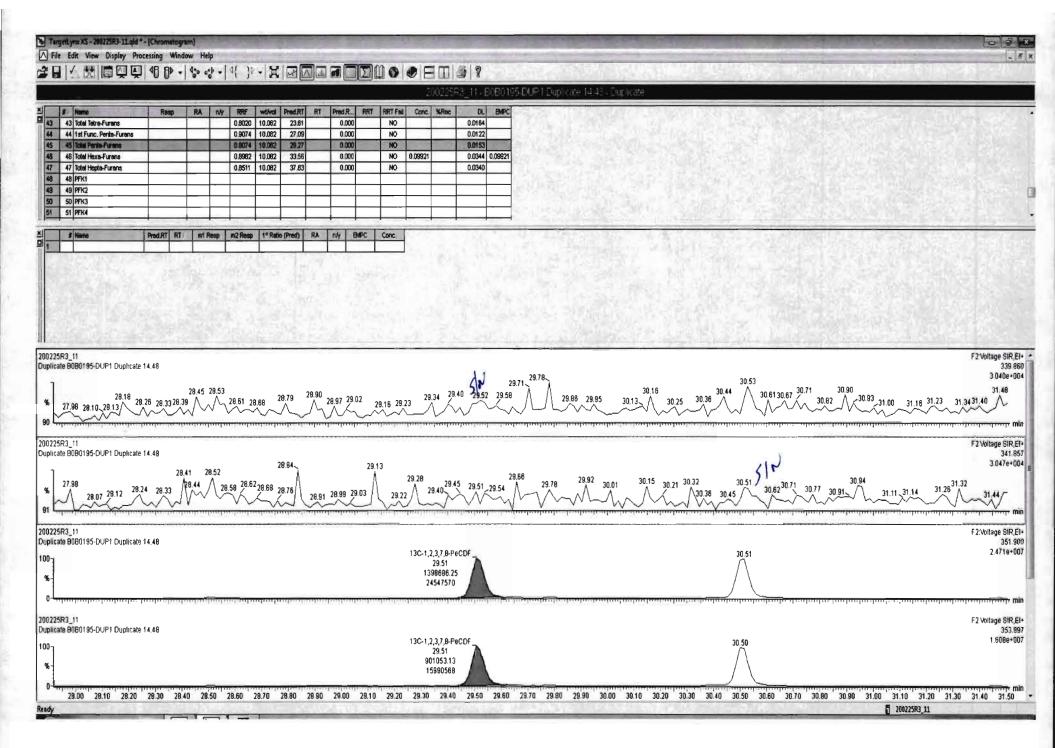
Detaset: Unitiled Printed: Wednesday, February 26, 2020 08:43:04 Pacific Standard Time Printed: Wednesday, February 26, 2020 08:43:04 Pacific Standard Time Wednesday, February 26, 2020 08:43:07 Pacific Standard Time Name: 200225R3_11, Date: 25-Feb-2020, Time: 21:00:35, ID: B0B0195-DUP1 Duplicate 14.48, Description: Duplicate 2,7,8-TCDF 200225R3_11 1946 1973 20.3320 4120 66 20 74 21.26 21.75 22.23 22.83 23 20 23.83 24.34 24.75 45.09 25,72 26.59 1946 1973 20.3320 4120 66 20 74 21.26 21.75 22.23 22.83 23 20 23.80 24.34 24.75 45.09 25,72 26.59 1936 19.75 20.15 20.62 20.86 20.96 21.59 21.77 22.76 22.85 23.15 23.31 24.03.24.12.24.22 24.79.25.06 29.39 25.75 26.12 26.7 1950 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 ISC-2.3.7.8-TCDF 1000 1050225R3_11 100- 100- 1050225R3_11 100- 100- 1050225R3_11 100- 100- 1050225R3_11 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 100- 10	Page 7 of
Wednesday, February 26, 2020 08:43:07 Pacific Standard Time         ame: 200225R3_11, Date: 25-Feb-2020, Time: 21:00:35, ID: B0B0195-DUP1 Duplicate 14.48, Description: Duplicate         3,7,8-TCDF         00225R3_11         01         19,46 19.73       20.33 20.4120.66 20.74       21.26       21.75       22.23       22.83       23.40       23.83       24.34       24.75       76.50       25.72       26.59         00       19.46 19.73       20.33 20.4120.66 20.74       21.26       21.75       22.23       22.83       23.40       23.83       24.34       24.75       76.50       25.72       26.59         01       19.36       19.75       20.15       20.62       20.86, 20.96       21.59       21.77       22.76, 22.86       23.15       23.31       24.03.24.12, 24.22       24.79       25.06       25.50       26.00       26.50         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         0225R3_11       13C-1,2,3,4-TCDF,23.27,1       13C-1,2,3,4-TCDF,23.27,1       24.00       24.50       25.00       25.50       26.00       26.50	
3,7,8-TCDF         00225R3_11         01       19,46 19 73       20 33 20 41 20 66 20 74       21,26       21,75       22 23       22 83       23 30       23 83       24 34       24 75       75 20       25 72       26 59         00       19,46 19 73       20 33 20 41 20 66 20 74       21,26       21 75       22 23       22 83       23 30       23 83       24 34       24 75       75 20       25 72       26 59         00       19,36       19 75       20 15       20 62       20 86 20 96       21 59       21 77       22 76 22 85       23 15       23 31       24 03 24 12, 24 22       24 79 25 06       25 39       25 75       26 12       26 77         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         0225R3_11       13C-1.2.3.4-TCDF.23 27.1 2266; 137 33920       13C-2.3.7.8-TCDF       13C-2.3.7.8-TCDF       24 78       1 1866       14966870       13C-2.3.7.8-TCDF       24 78       1 53 66       1 53 66       1 53 66       1 53 66       1 53 66       1 53 66       1 53 66       1 53 66       1 53 66       1 53 66       1 53 66       1	
<b>37,8-TCDF</b> <b>19,46</b> 19,73 20 33 20 41 20 66 20 74 21,26 21,75 22 23 22 83 23 26 23 83 24 34 24 75 $1500$ 25,72 26,59 <b>19,46</b> 19,73 20 33 20 41 20 66 20 74 21,26 21,75 22 23 22 83 23 26 23 31 23 31 24 03 24 12, 24 22 24 79 25 06 25 39 25,75 26 12 26,77 <b>19,50</b> 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 <b>C-2,3,7,8-TCDF</b> <b>0225R3_11</b> <b>13C-1.2.3.4-TCDF,23 27,1 2266,13733920</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-2.3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>13C-3.7,8-TCDF</b> <b>1400</b> <b>14</b>	
2025R3_11       19.46 19.73       20.33.20 4120 66 20.74       21.26       21.75       22.23       22.83       23.80       23.83       24.34       24.75       25.09       25.72       26.59         0       19.36       19.75       20.15       20.62       20.86, 20.96       21.59       21.77       22.76, 22.85       23.15       23.31       24.03, 24.12, 24.22       24.79 25.06       25.93       25.75       26.12       26.7         19.36       19.75       20.15       20.62       20.86, 20.96       21.59       21.77       22.76, 22.85       23.10       23.50       24.00       24.50       25.00       25.50       26.00       26.50         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         C-2.3,7,8-TCDF       13C-1.2,3,4-TCDF,23.27,1       2266,13733920       13C-2,3,7,8-TCDF       24.78       14.986870       13C-2,3,7,8-TCDF       24.78       1.18e6       14.986870       13C-2,3,7,8-TCDF       24.78       1.5366       195566666       195566666       195566666       195566666       195566666       195566666       195566666       195566666       195566666	
19.46       19.73       20.33.20       41.20       66.20       74       21.26       21.75       22.23       22.83       23.83       24.34       24.75       25.72       26.59         225R3_11       19.36       19.75       20.15       20.62       20.86       20.96       21.59       21.77       22.76.22.85       23.15       23.31       24.03.24.12.24.22       24.79.25.06       25.39       25.75       26.12       26.77         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         C-2.3,7,8-TCDF       13C-1.2.3.4-TCDF.23.27,1       13C-1.2.3.4-TCDF.23.27,1       2266;13733920       13C-2.3.7.8-TCDF       24.78       13Be6       14986870       13C-2.3.7.8-TCDF         225R3_11       13C-1.2.3.4-TCDF.23.27,1       1266;16967406       13C-2.3.7.8-TCDF       24.78       15.366       13C-2.3.7.8-TCDF         19.50       20.00       20.50       21.00       21.50       22.00       22.50       23.00       23.50       24.00       24.50       25.00       25.00       26.00       26.50         19.50       20.00       20.50       21.00 <t< td=""><td>F1:Voltage SIR,I</td></t<>	F1:Voltage SIR,I
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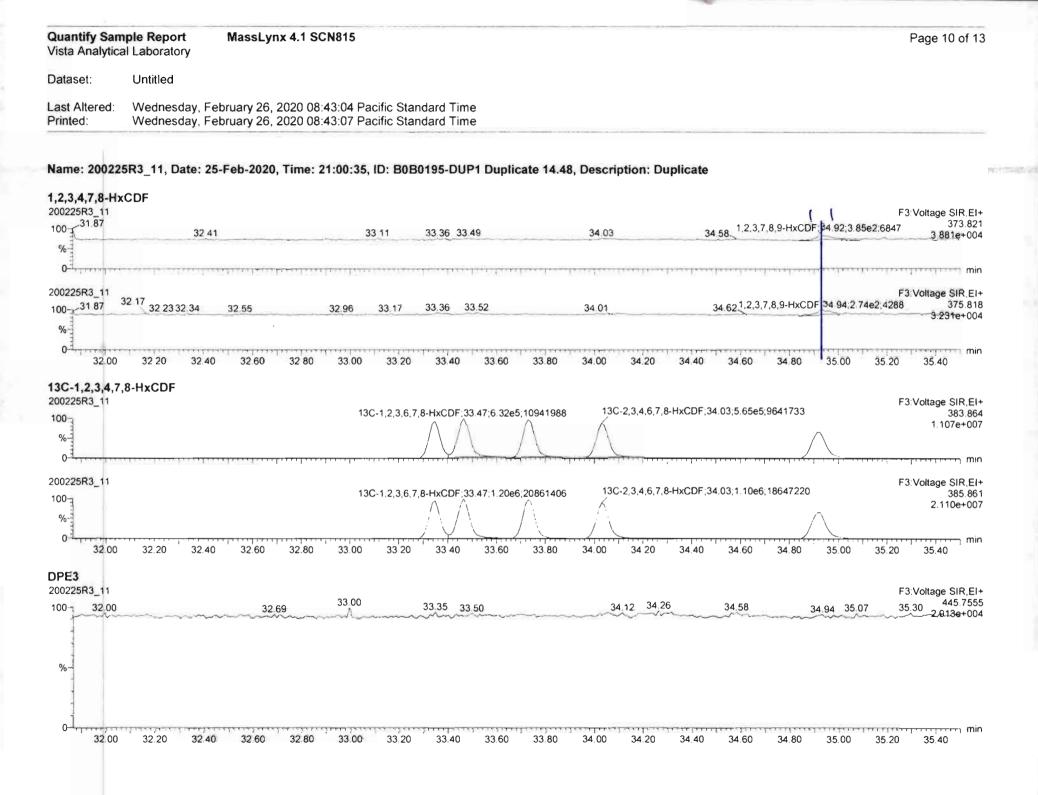


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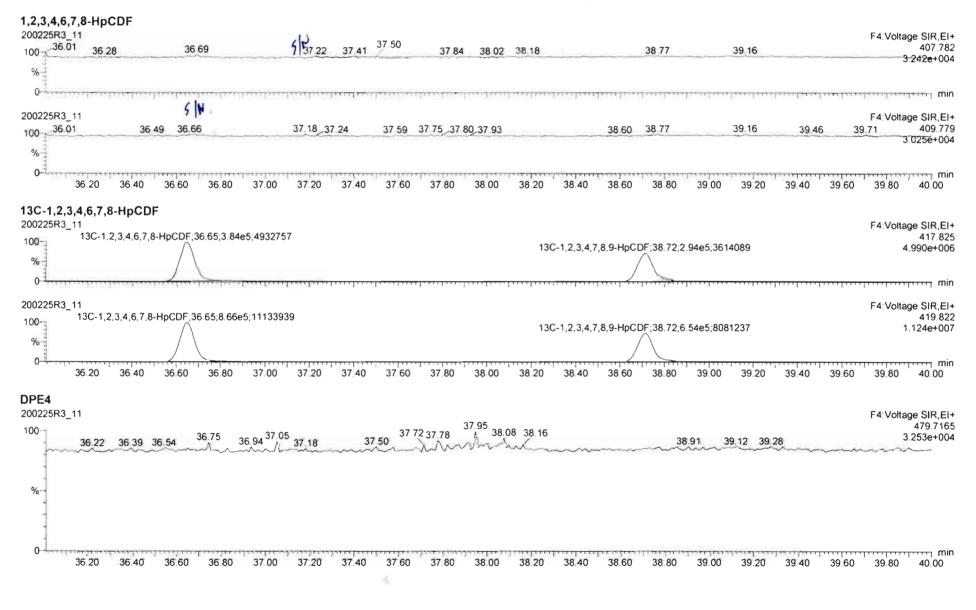


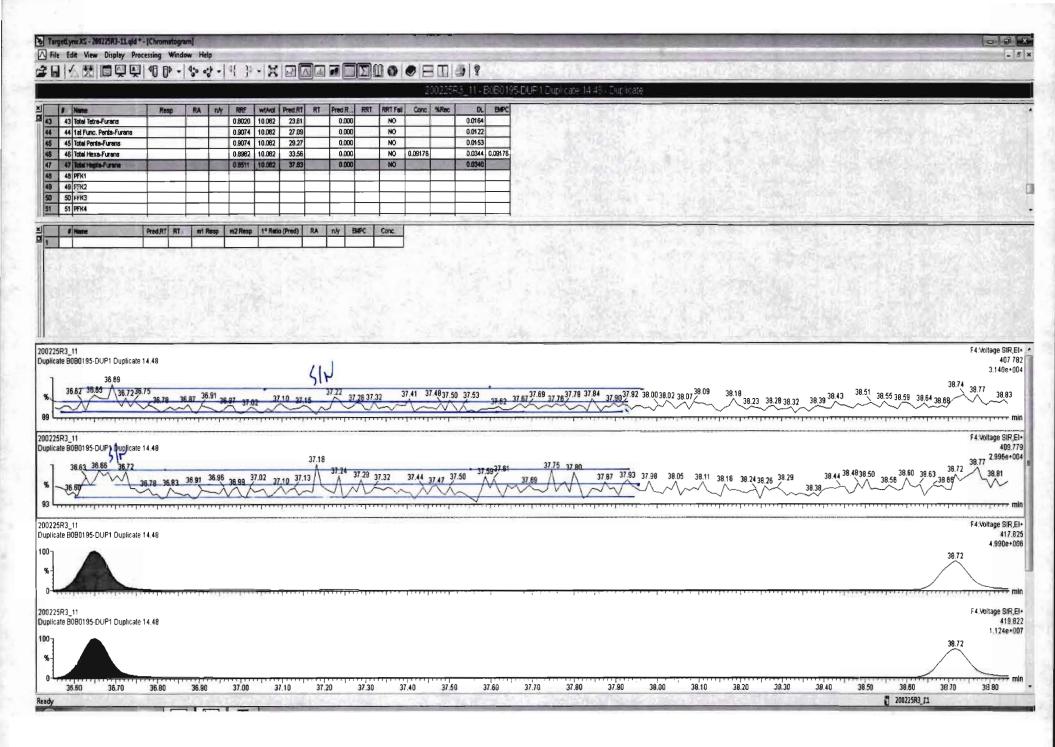


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11         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007         1237,85+4007						_	┼┼─-			_	SAL SAL						
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No.         NO. <td># Neme</td> <td>Pred.RT RT</td> <td>m1 Resp</td> <td>m2 Resp</td> <td>1º Ratio (Pred</td> <td>n RA</td> <td>Ny BMPC</td> <td>Conc</td> <td>1.1.1</td> <td>101 - 5</td> <td></td> <td>Up a new local</td> <td>Television according to</td> <td></td> <td></td> <td>1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.</td> <td></td>	# Neme	Pred.RT RT	m1 Resp	m2 Resp	1º Ratio (Pred	n RA	Ny BMPC	Conc	1.1.1	101 - 5		Up a new local	Television according to			1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
3,11       12,31,3       12,31,3       12,31,3       12,31,3       12,31,3       12,31,3       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       13,4       <	14 1,2,3,7,8,9-HxCDF				1.2	40 1.33	NO 0.060913	0.060913			Sal and			11100			
<sup>1</sup> / <sub>2,2,7,8,3</sub> +ACCF <sup>3,4,7</sup> <sup>2,4,7</sup> / <sub>2,4,7,8</sub> +ACCF <sup>3,4,7</sup> / <sub>3,4,7,8</sub> +ACCF <sup>3,4,7</sup> / <sub>3,4,7,8</sub> +ACCF <sup>3,4,7</sup> / <sub>3,7,7</sub> <sup>3,4,7</sup> / <sub>3,7,7</sub> / <sub>3,1,7</sub>	6 Total Hexa-Furans	33.56 34.95	1.238e2	1.082e2	1.2	40 1.14	NO 0.030842	0.030642									
D0001955-DUP1 Duplicate 14.48       1,2,3,7,8,9+bcDF;34,94;173,54;425       3,2         138       32.4       32.25       32.68,32.70       32.79,32.85       32.93,32,93,33,49,33.29,33.49,33.29,33.57,33.63       33.72,33.75,33.89,33.49,34.29,34.45,34.59,4.59,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34																	
D0001955-DUP1 Duplicate 14.48       1,2,3,7,8,9+bcDF;34,94;173,54;425       3,2         138       32.4       32.25       32.68,32.70       32.79,32.85       32.93,32,93,33,49,33.29,33.49,33.29,33.57,33.63       33.72,33.75,33.89,33.49,34.29,34.45,34.59,4.59,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.69,34.20,34.42,34.45,34.51,4.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34.59,34	32.41_32.43 32.57	32.61 32.71	-32.73 <sup>32.1</sup>	86 32.90	32.95 32.99	33.11	33.25	33.29 33.3	33.39 33	49 33.56	33.60 33.72 33.80 33.85 <sup>33.8</sup>	<sup>18</sup> 33.96 34.03 34.13	34.22 34.32 34.35 34.42	34.51 34.58 34.63		36	5.05 3
1,2,3,7,8+HACDF,33,35,543234 88,10258279 3,11 B0B0195-DUP1 Duplicate 14.48 13C-1,2,3,4,7,8+HACDF,33,35,1063457,13,20018996 13C-1,2,3,4,7,8+HACDF,33,35,1063457,13,20018996 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47 3,47	32.41_32.43 32.51	32.61 32.71	< <u>32.73</u> 32.	86 32.90	32.95 <sup>32.99</sup>	33.11	33.25	33.29 33.3	36 <sup>33.39</sup> 33	49 33.56	33.60 33.72 33.80 33.85 <sup>33.8</sup>	<sup>18</sup> 33.96 34.03 34.13	34.22 34.32 34.35 34.42	34.51 34.58 34.63		35	5.05 3
138 32.46 32.53 32.55 32.68 32.70 32.79 32.85 32.93 32.96 33.07 33.17 33.27 33.86 33.93 34.49 33.52 33.57 33.63 33.72 33.75 33.85 33.90 34.01 34.05 34.09 34.20 34.26 34.32 34.42 34.45 34.51 34.59 34.62 34.64 34.71 34.83 35.09 36.09 36 F3.Voltag B000195-DUP1 Duplicate 14.48 13C-1,2,3,4,7,8+thcOF;33.35;543234.86;10258279 33.47 33.73 34.03 F3.Voltag B000195-DUP1 Duplicate 14.48 13C-1,2,3,4,7,8+thcOF;33.35;1063457.13,200189866 33.47 33.73 34.03 F3.Voltag C1.2,3,4,7,8+thcOF;33.35;1063457.13,200189866 33.47 33.73 34.03 F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.Voltag F3.	3_11	Participit	< <u>32.73</u> 32.	86 32.90	32.95 32.99	33.11	33.25	33.29 33.3	36 <sup>33.39</sup> 33	49 33.56	33.60 33.72 33.80 33.85 33.8	<sup>18</sup> 33.96 <sup>34.03</sup> 34.13	34.22 34.32 <sup>34.35</sup> 34.42	34.51 34.58 34.63		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Voltage
3_11 B0B0195-DUP1 Duplicate 14.48         F3:Voltag           13C-1,2,3,4,7,8-HxCDF;33.35;543234.88;10258279         33.47           3_11 B0B0195-DUP1 Duplicate 14.48         13C-1,2,3,4,7,8-HxCDF;33.35;1063457.13;20018966           13C-1,2,3,4,7,8-HxCDF;33.35;1063457.13;20018966         33.47           3_17         33.73           3_10         2.15	3_11 B080195-DUP1 Duplicate	14.48					in otraite							1,2,3,7,8,	6804	F34	Voltage
B0B0195-DUP1 Duplicate 14.48 13C-1,2,3,4,7,8-HxCDF;33.35;543234.88;10258279 33.47 33.73 34.03 11 F3.Voltag B0B0195-DUP1 Duplicate 14.48 13C-1,2,3,4,7,8-HxCDF;33.35;1063457.13;20018966 33.47 33.73 34.03 4.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03	3_11 8080195-DUP1 Duplicate	14.48					in otraite							1,2,3,7,8,	6804	;4257	Voltage 3.2
B0B0195-DUP1 Duplicate 14.48 13C-1,2,3,4,7,8-HxCDF;33.35;543234.88;10258279 33.47 33.73 34.03 11 F3.Voltag B0B0195-DUP1 Duplicate 14.48 13C-1,2,3,4,7,8-HxCDF;33.35;1063457.13;20018966 33.47 33.73 34.03 4.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03 34.03	3_11 B080195-DUP1 Duplicate	14.48					in otraite							1,2,3,7,8,	6804	;4257	Voltage 3.2
B0B01195-DUP1 Duplicate 14.48       13C-1,2,3,4,7,8-HxCDF;33.35;543234.88;10258279       33.47       33.73       34.03         111       34.91       34.91       34.91       14.48       15.11         111       111       111       111       111       111       111         111       111       111       111       111       111       111       111         111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111       111	L 11 B0B0195-DUP1 Duplicate	14.48					in otraite							1,2,3,7,8,	6804	;4257	voitage 3.2
34.91         34.91           9080195-DUP1 Duplicate 14.48         13C-1,2,3,4,7,8+thxCDF,33.35,1063457,13,20018966         33.47         33.73         34.03         2.1	1_11 9090195-DUP1 Duplicate 38 32.46 32.53 32.55	14.48					in otraite							1,2,3,7,8,	6804	4257 35.00	Voltage 3.2: 3 35.
34.91           33.11           B0B0195-DUP1 Duplicate 14.48           13C-1,2,3,4,7,8+MxCDF,33.35,1063457,13;20018966           33.47         33.73           34.03	3_11 B080195-DUP1 Duplicate .38 32.46 32.53 32.55 	114.48 32.68, 32.70		2.85 32.9	3 32.96	33 07	33.17 33	27 33.:						1,2,3,7,8,	6804	4257 35.00	Voltage 3.2: 3 35.1 Voltage
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B0B0195-DUP1 Duplicate 14.48 13C-1,2,3,4,7,8+HxCDF,33.35,1063457,13;20018966 33,47 33,73 34.03 2.1	3_11 B0B0195-DUP1 Duplicate .38 32.46 32.53 32.55 	114.48 32.68, 32.70		2.85 32.9	3 32.96	33 07	33.17 33	27 33.:	36 33 39 <sup>33.49</sup>	33.52 33.57	33.63 33.72 <sup>33.75</sup> 33.85 33.9	0 34.01 34.05 34.09		1,2,3,7,8,	6804	4257 533 55.0 533	Voltage 3.23 3 35.0 Voltage
B0B0195-DUP1 Duplicate 14.48 13C-1,2,3,4,7,8-HxCDF;33.35;1063457.13;20018966 33,47 33,73 34.03 2.1	11 B0B0195-DUP1 Duplicate 38 32.46 32.53 32.55	114.48 32.68, 32.70		2.85 32.9	3 32.96	33 07	33.17 33	27 33.:	36 33 39 <sup>33.49</sup>	33.52 33.57	33.63 33.72 <sup>33.75</sup> 33.85 33.9	0 34.01 34.05 34.09		1,2,3,7,8,	6804	4257 533 55.0 533	Voltage 3.2: 3 35.1 Voltage
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$\square \land	3_11 B080195-DUP1 Duplicate 138 32.46 32.53 32.55 3_11 B0B0195-DUP1 Duplicate 14.11	22.68.32.70 214.48		2.85 32.9	3 32 96 32-1,2,3,4,7,6	33 07 	33.17 33 3.35;543234.88;1	27 33.3	36 33 39 33 49 37 33 49 33 49	33.52 33.52 33.57 7	33.63 33.72 <sup>33.75</sup> 33.85 33.9 33.72 <sup>33.75</sup> 33.85 33.9 33.73	0 34.01 34.05 34.09 34.03 34.03		1,2,3,7,8,	6804	4257 533 34.91	Voltage 3.23 3 35.0 Voltage 1.10
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Quantify San Vista Analytica		Page 11 of 1
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:43:04 Pacific Standard Time Wednesday, February 26, 2020 08:43:07 Pacific Standard Time	

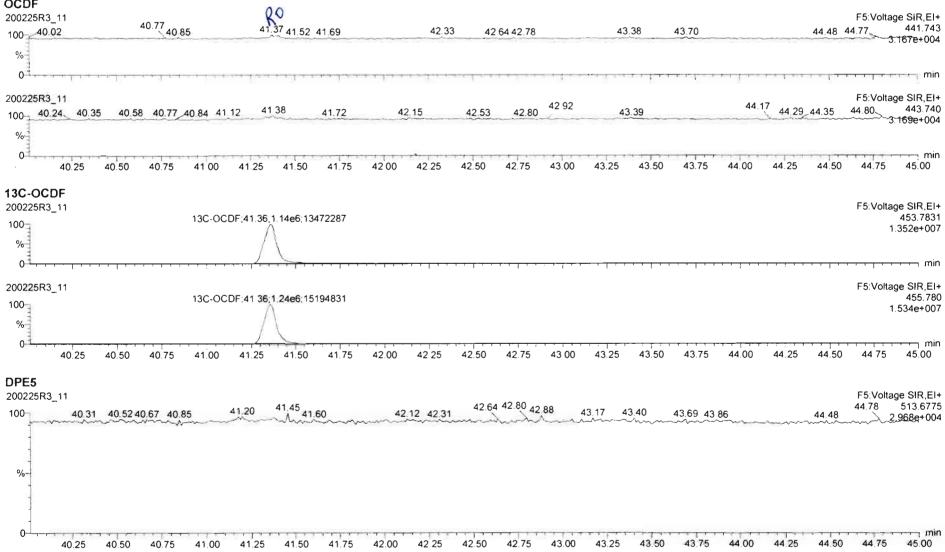
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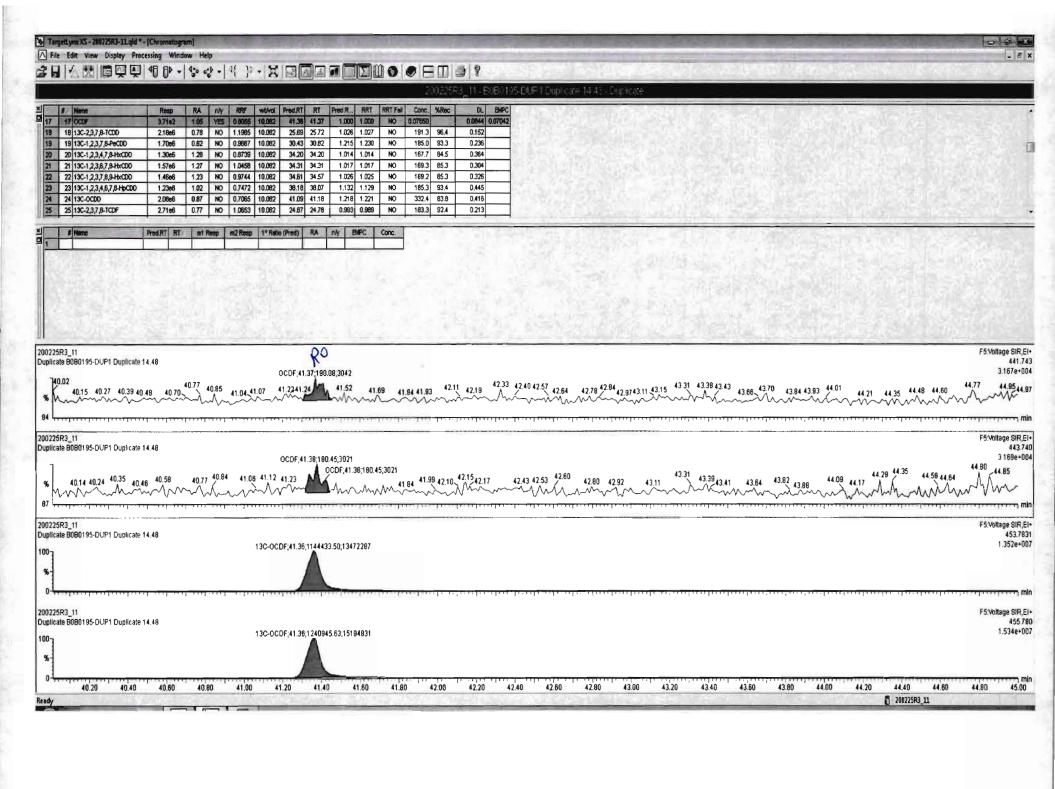




Work Order 2000329

Quantify Sam Vista Analytica		Page 12 of 13
Dataset:	Untitled	
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	nple Report MassLynx 4.1 SCN815 al Laboratory	Page 13 of 1
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PFK3		
	35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 <sup>F3</sup>	380.976
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100	35 65 8 7 265 7 25 244 33 30 30 7 20 7 20 244	380.976 8 851e+00
100- %- 31.93 0 - 32.00	35.65;8.72e6;725244 35.65;8.72e6;72644 35.65;8.72e6;726444445;8.72e6;72644444444444444444444444444444444444	380.976 8.851e+00
32.00 <b>PFK4</b> 200225R3_11	35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.7	380.976 8.851e+00 75 36.00
<sup>100</sup> <sup>31.93</sup> <sup>0</sup> <sup>32.00</sup> <b>PFK4</b>	35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.7	380.976 8.851e+00 75 36.00
100 31.93 32.00 <b>PFK4</b> 200225R3_11	35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.7	380.976 8.851e+00 75 36.00 1: Voltage SIR, El .69 430.972
100 31.93 32.00 <b>PFK4</b> 200225R3_11 100 36.87;1.11 %	35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;726;72	380.976 8.851e+00 75 36.00 Voltage SIR,E 69 430.972 6.735e+00
100 31.93 0 32.00 <b>PFK4</b> 200225R3_11 100 36.87;1.11 % 100 36.2	35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;725244 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;72524 35.65;8.72e6;726;72	380.976 8.851e+00 75 36.00 1: Voltage SIR, E 69 430.972 6.735ë+00
100 31.93 0 32.00 PFK4 200225R3_11 100 36.87;1.11 % 36.2 PFK5	35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72	380.976 8.851e+00 75 36.00 9.Voltage SIR,El 69 430.972 6.735e+00 9.80 40.00
100 31.93 32.00 <b>PFK4</b> 200225R3_11 100 36.87;1.11 %	35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.7	380.976 8.851e+00 75 36.00 1: Voltage SIR,El 69 430.972 6.735ë+00 9.80 40.00 5: Voltage SIR,El 6 454.972
100 31.93 32.00 <b>PFK4</b> 200225R3_11 100_36.87;1.11 % 36.2 <b>PFK5</b> 200225R3_11	35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,725244 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72524 35.65,8.72e6,72	380.976 8.851e+00 75 36.00 1. Voltage SIR,El 6.9 430.972 6.735e+00 9.80 40.00 5. Voltage SIR,El
000 % 31.93 0 32.00 <b>PFK4</b> 00225R3_11 100 36.87,1.11 % 36.2 <b>PFK5</b> 100225R3_11	35.55,8 7/26,725244 35.65,8 72e6,725244 35.65,8 7	380.976 8.851e+00 75 36.00 9.80 430.972 6.735e+00 9.80 40.00 5: Voltage SIR,E 6 454.972

Quantify San Vista Analytica	al Laboratory	MassLynx MassLynx V4.1 SCN 945	Page 1 of 2
Dataset:	U:\VG12.PRO\Results\20	0225R3\200225R3-12.qld	
Last Altered: Printed:		2020 14:29:15 Pacific Standard Time 2020 14:32:31 Pacific Standard Time	BL 02/20/2020
Method: U:\\		02-14-20 mdb 14 Eeb 2020 10:26:00	C1 v2/27/2020

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

1	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD		_		0.988	10.157	25.74		1.00		NO			0.0471	
2	2 1,2,3,7,8-PeCDD				0.972	10.157	30.84		1.00		NO			0.0378	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.157	34.20		1.00		NO			0.0488	
4	4 1,2,3,6,7,8-HxCDD				0.921	10.157	34.30		1.00		NO			0.0518	
5	5 1,2,3,7,8,9-HxCDD				0.918	10.157	34.60		1.00		NO			0.0579	
6	6 1,2,3,4,6,7,8-HpCDD	1750.053	0.921	NO	0.923	10.157	38.08	38.09	1.00	1.00	NO	0.2991		0.102	0.2991
7	7 OCDD	14290.578	0.854	NO	0.975	10.157	41.18	41.19	1.00	1.00	NO	2.481		0.0940	2.481
8	8 2,3,7,8-TCDF				0.802	10.157	24.79		1.00		NO			0.0343	
9	9 1,2,3,7,8-PeCDF				0.907	10.157	29.53		1.00		NO			0.0305	
10	10 2,3,4,7,8-PeCDF				0.952	10.157	30.53		1.00		NO			0.0275	
11	11 1,2,3,4,7,8-HxCDF				0.862	10.157	33.33		1.00		NO			0.0342	
12	12 1,2,3,6,7,8-HxCDF				0.841	10.157	33.45		1.00		NO			0.0338	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.157	34.05		1.00		NO			0.0338	
14	14 1,2,3,7,8,9-HxCDF	344.461	1.575	YES	0.858	10.157	34.91	34.91	1.00	1.00	NO	0.05418		0.0506	0.04713
15	15 1,2,3,4,6,7,8-HpCDF				0.851	10.157	36.68		1.00		NO			0.0562	
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.157	38.72		1.00		NO			0.0626	
17	17 OCDF				0.806	10.157	41.36		1.00		NO			0.0709	
18	18 13C-2,3,7,8-TCDD	2121857.1	0.775	NO	1.20	10.157	25.69	25.70	1.03	1.03	NO	182.1	92.5	0.113	
19	19 13C-1,2,3,7,8-PeCDD	1732439.8	0.632	NO	0.967	10.157	30.43	30.82	1.22	1.23	NO	184.4	93.6	0.174	
20	20 13C-1,2,3,4,7,8-HxCDD	1338803.7	1.270	NO	0.874	10.157	34.19	34.19	1.01	1.01	NO	168.0	85.3	0.283	
21	21 13C-1,2,3,6,7,8-HxCDD	1587857.1	1.261	NO	1.05	10.157	34.29	34.30	1.02	1.02	NO	166.5	84.5	0.237	
22	22 13C-1,2,3,7,8,9-HxCDD	1459132.5	1.228	NO	0.974	10.157	34.60	34.56	1.03	1.02	NO	164.2	83.4	0.254	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1248396.1	1.063	NO	0.747	10.157	38.17	38.07	1.13	1.13	NO	183.2	93.0	0.428	
24	24 13C-OCDD	2327978.7	0.890	NO	0.707	10.157	41.07	41.18	1.22	1.22	NO	361.3	91.7	0.382	
25	25 13C-2,3,7,8-TCDF	2697859.0	0.768	NO	1.07	10.157	24.87	24.76	0.99	0.99	NO	186.8	94.8	0.223	
26	26 13C-1,2,3,7,8-PeCDF	2321701.1	1.568	NO	1.00	10.157	29.46	29.51	1.18	1.18	NO	170.9	86.8	0.462	
27	27 13C-2,3,4,7,8-PeCDF	2284065.3	1.572	NO	0.962	10.157	30.42	30.50	1.21	1.22	NO	175.1	88.9	0.481	
28	28 13C-1,2,3,4,7,8-HxCDF	1632641.8	0.516	NO	1.05	10.157	33.32	33.33	0.99	0.99	NO	170.6	86.6	0.372	
29	29 13C-1,2,3,6,7,8-HxCDF	1851668.1	0.520	NO	1.19	10.157	33.42	33.44	0.99	0.99	NO	170.6	86.6	0.328	
30	30 13C-2,3,4,6,7,8-HxCDF	1728900.8	0.527	NO	1.07	10.157	34.03	34.02	1.01	1.01	NO	177.8	90.3	0.366	
31	31 13C-1,2,3,7,8,9-HxCDF	1459518.1	0.521	NO	0.922	10.157	34.93	<b>3</b> 4.91	1.04	1.04	NO	173.5	88.1	0.423	

# Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory MassLynx MassLynx V4.1 SCN 945

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-12.qld

Last Altered:	Wednesday, February 26, 2020 14:29:15 Pacific Standard Time
Printed:	Wednesday, February 26, 2020 14:32:31 Pacific Standard Time

	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1302153.3	0.443	NO	0.767	10.157	36.69	36.64	1.09	1.09	NO	186.1	94.5	0.385	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1018297.1	0.440	NO	0.552	10.157	38.71	38.72	1.15	1.15	NO	202.1	103	0.535	
34	34 13C-OCDF	2687956.0	0.887	NO	0.789	10.157	41.31	41.36	1.23	1.23	NO	<b>3</b> 73.3	94.8	0.321	
35	35 37CI-2,3,7,8-TCDD	831043.625			1.18	10.157	25.72	25.74	1.03	1.03	NO	72.69	92.3	0.0367	
36	36 13C-1,2,3,4-TCDD	1913942.0	0.785	NO	1.00	10.157	25.11	25.05	1.00	1.00	NO	196.9	100	0.136	
37	37 13C-1,2,3,4-TCDF	2670265.2	0.792	NO	1.00	10.157	23.37	23.26	1.00	1.00	NO	196.9	100	0.237	
38	38 13C-1,2,3,4,6,9-HxCDF	1796056.1	0.518	NO	1.00	10.157	33.71	33.72	1.00	1.00	NO	196.9	100	0.390	
39	39 Total Tetra-Dioxins				0.988	10.157	24.62		0.00		NO	0.1241		0.0471	0.1241
40	40 Total Penta-Dioxins				0.972	10.157	29.96		0.00		NO	0.0000		0.017 <b>7</b>	0.04168
41	41 Total Hexa-Dioxins				0.921	10.157	33.63		0.00		NO	0.2671		0.0553	0.3367
42	42 Total Hepta-Dioxins				0.923	10.157	37.64		0.00		NO	0.8069		0.102	0.8069
43	43 Total Tetra-Furans				0.802	10.157	23.61		0.00		NO			0.0170	
44	44 1st Func. Penta-Furans				0.907	10.157	27.09		0.00		NO			0.0108	
45	45 Total Penta-Furans				0.907	10.157	29.27		0.00		NO			0.0153	
46	46 Total Hexa-Furans				0.898	10.157	33.56		0.00		NO	0.0000		0.0192	0.07579
47	47 Total Hepta-Furans				0.851	10.157	37.83		0.00		NO			0.0319	

## Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

## Dataset: U:\VG12.PRO\Results\200225R3\200225R3-12.qld

Last Altered:Wednesday, February 26, 2020 14:29:15 Pacific Standard TimePrinted:Wednesday, February 26, 2020 14:32:11 Pacific Standard Time

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Name: 200225R3\_12, Date: 25-Feb-2020, Time: 21:48:00, ID: 2000329-05RE1 PDI-100SC-J-10-11-190926 11.99, Description: PDI-100SC-J-10-11-190926

## **Tetra-Dioxins**

Same The	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	1.32e3	2.12e6	0.688	NO	24.62	23.43	0.1241	0.1241

## **Penta-Dioxins**

P. C. 8-911-	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.73e6	0.920	YES	29.96	29.07	0.0000	0.04168

## **Hexa-Dioxins**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	1.83e3	0.00e0	1.396	NO	33.63	32.74	0.2671	0.2671
2	41 Total Hexa-Dioxins	0.00e0	0.00e0	0.992	YES	33.63	33.52	0.0000	0.06962

## **Hepta-Dioxins**

and the second	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	1.75e3	1.25e6	0.921	NO	38.08	38.09	0.2991	0.2991
2	42 Total Hepta-Dioxins	2.97e3	1.25e6	1.109	NO	37.64	37.04	0.5079	0.5079

#### **Tetra-Furans**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMIPC
1									

## **Penta-Furans function 1**

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

## Quantify Totals Report MassLynx MassLynx V4.1 SCN 945 Vista Analytical Laboratory

### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-12.qld

Last Altered: Wednesday, February 26, 2020 14:29:15 Pacific Standard Time Printed: Wednesday, February 26, 2020 14:32:11 Pacific Standard Time

Name: 200225R3\_12, Date: 25-Feb-2020, Time: 21:48:00, ID: 2000329-05RE1 PDI-100SC-J-10-11-190926 11.99, Description: PDI-100SC-J-10-11-190926

## Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	20								

## **Hexa-Furans**

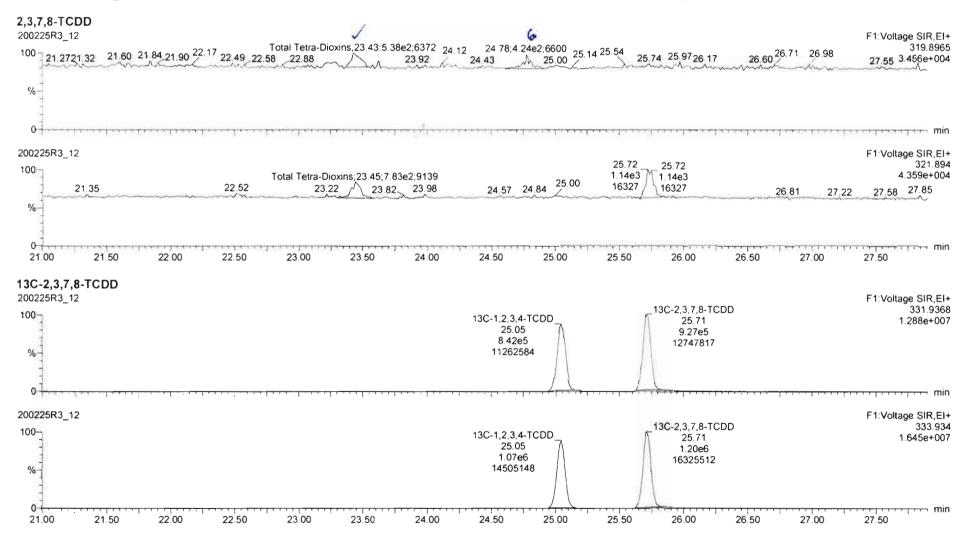
1.00	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	3.44e2	1.46e6	1.575	YES	34.91	34.91	0.0000	0.04713
2	46 Total Hexa-Furans	0.00e0	0.00e0	1.661	YES	33.56	34.95	0.0000	0.02330
3	46 Total Hexa-Furans	0.00e0	0.00e0	0.755	YES	33.56	34.87	0.0000	0.0053

#### **Hepta-Furans**

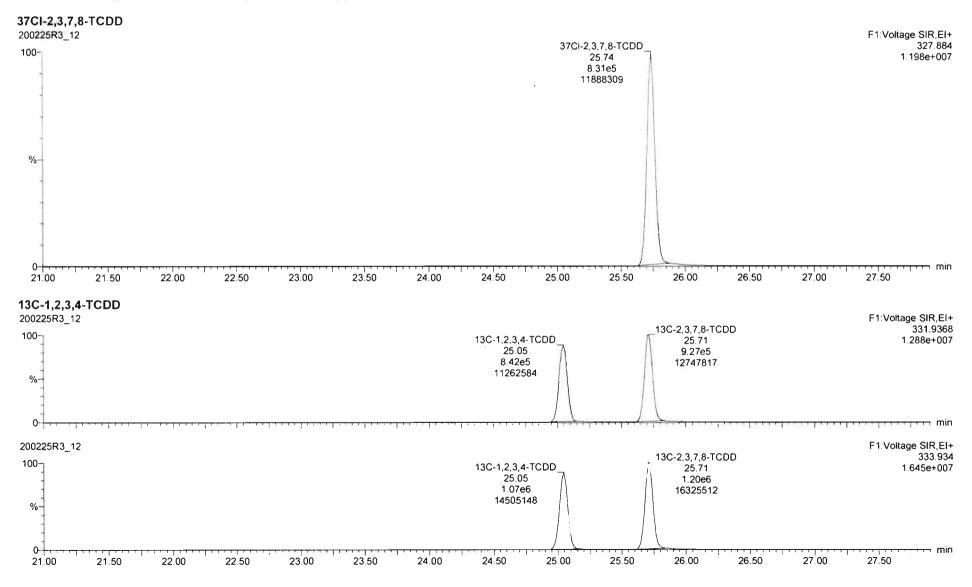
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1									

Quantify San Vista Analytica		Page 1 of 13
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:43:26 Pacific Standard Time Wednesday, February 26, 2020 08:43:29 Pacific Standard Time	

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

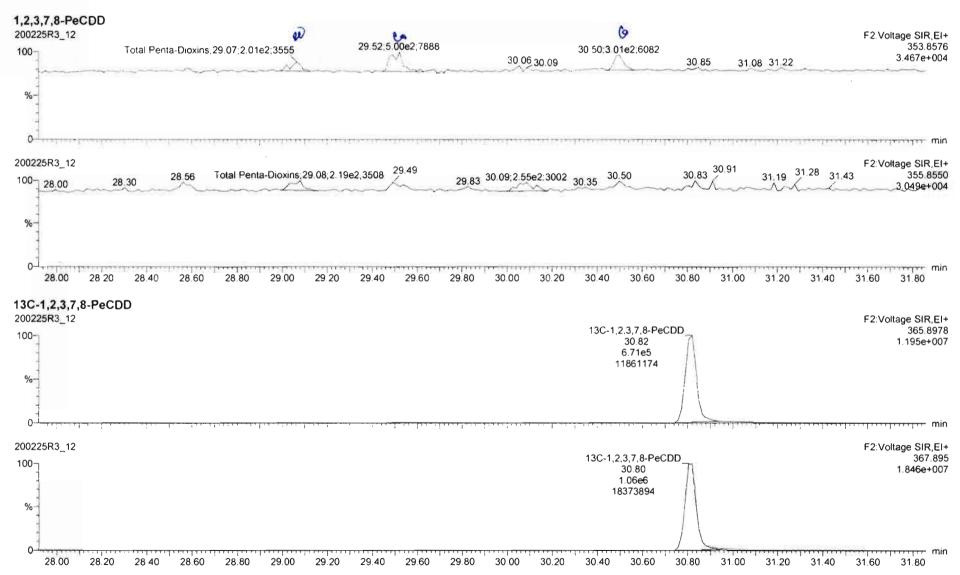


Quantify Sam Vista Analytica		Page 2 of 13
Dataset:	Untitled	
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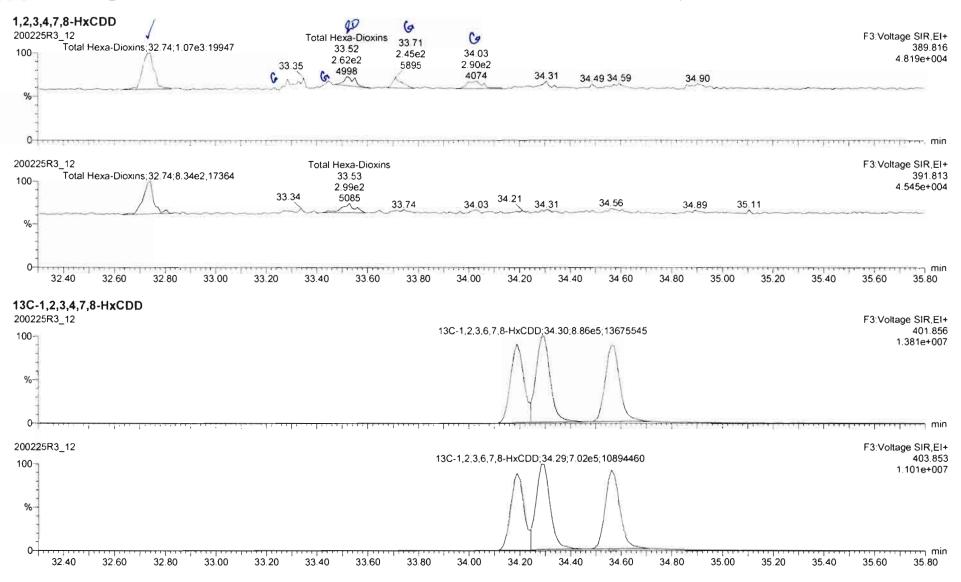


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Quantify San Vista Analytic		Page 3 of 13
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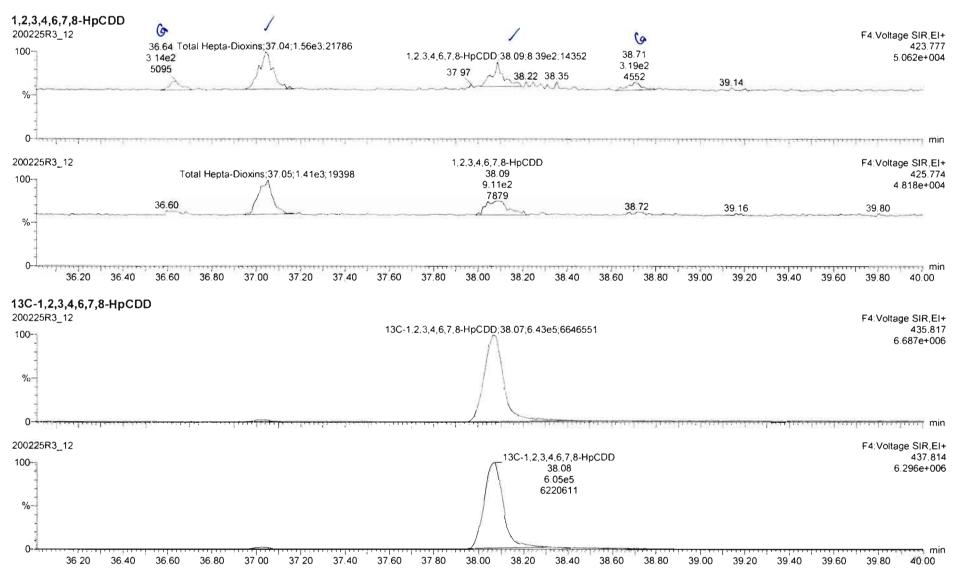


Quantify Sam Vista Analytica		Page 4 of 13
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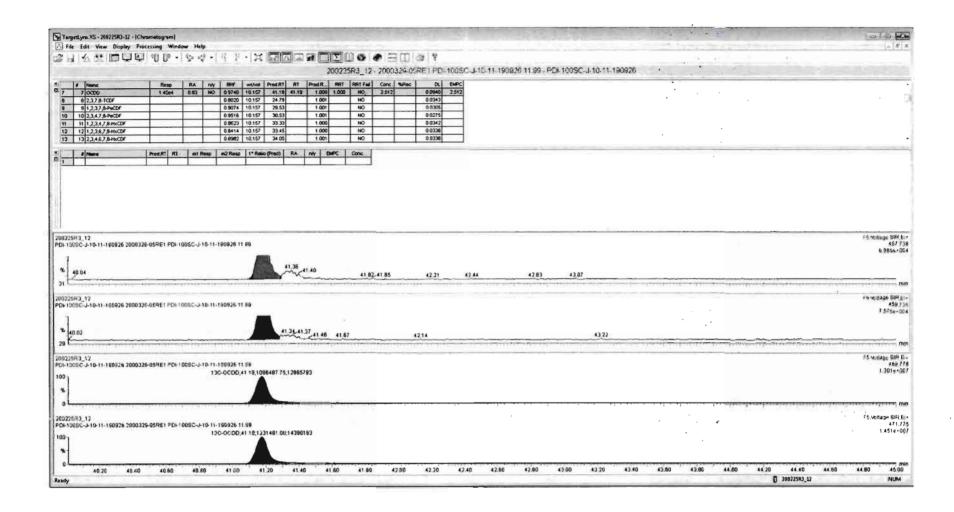


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40 Total Penta-Dioxine			-	0 9723		29.96		0.000			0.0000		0 6177							1.00						
41 Total Hexa-Dioxins		152 1		0 9211	10.157	33.83	0	0.000	-		0 2779			0 3470												
42 Total Hepta-Dioxins 43 Total Tetra-Furans			-	0.9231	10 157	37 64 23 61	-	0.000		NO	0.8069		0.102	0 8070												
44 1st Func. Penta-Furen	-		+	0 9074	10.157	23 61	-	0.000	-	NO		-	0.0170													
45 Total Penta-Furans	10		+-	0 9074		29 27	-	0.000		NO	-		0.0153													
45 licta Perta-rurans		_	-	0.9074	10.15/	2921	-	0.000		Neg	_		00153	100												
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41 Tota Hexa-Diaxins	33.63		623e2	2 99482	1	1 240		YES 0 06		00000																
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905C-J-10-11-190926 205	Total Hexa-Dio	DH-1005C-	J-10-11	20321*							33 02	1.0	<u>33.08</u>			<u>13 23</u>	33.28	33 33 33			33.44	33 26: 509 Total H	52 55 22* resa-Croxins 33 53			4 819 33271 F3 Vonage 1
905C-J-10-11-120926 203	Total Hexa-Diox	DH-1005C-	J-10-11	,20321* 190926 1 17195*		7.8			-		33 02	1.1	<u>33.08</u>		1.11	Ţ	~	~~			33.44	33 26: 50: Total #	52 55 12* (exa-Croxins 33 53 265 81			4 819 33271 F3 Vonage 1
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IOSC-J-10-11-120926 203	Total Hexa-Diox	DH-1005C-	J-10-11	,20321* 190926 1 17195*		32.87			32.96			1.1		<u>9 11</u>		Ţ	~	~~		3.39	33.44	33 26: 50: Total #	52 55 12* (exa-Croxins 33 53 265 81		33.65	33.71 33.71 F3 Vonagee 1
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1993C-J-10-11-199326-203 1993_12 1993_12 1993_12 1993_12 1993_12	00326-05461 F Total Hexe-Dici 200326-05461 F Total Hexe-Dic 200326-05461 F 32.70	DH 1005C-,	J-10-11 J-10-11 J-10-11 J-10-11	20321* 190926 1 17195* 32.81 190926 1	1 99	32.07			32 96	• • • •		33.05					33.27	~~~				33 26: 500 Total /	52 55 57 77 78 78 78 75 75 75 75 75 75 75 75 75 75 75 75 75			2371 2371 F3Ventage fi 4545 F3Ventage fi 3368 F3Ventage fi 3368
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25673_12 25673_12 25673_12 25673_12 25673_12 25673_12 25673_12	00326-05461 F Total Hexe-Dia Total Hexe-Dia 200326-05461 F 32.70	DH-1005C-,	J-10-11 J-10-11 J-10-11 J-10-11	20321* 190926 1 17195* 32.81 190926 1	1 99	32.87			32.96			33.05					33.27	~~				33 26: 500 Total /	52 55 57 77 78 78 78 75 75 75 75 75 75 75 75 75 75 75 75 75			4 81% 4 81% 3371 F3 Voltager 8 58 4 5455 F3 Voltager 8 4 33 88 F3 Voltager 8 4 5455 F3 Voltager 8 4 0 5 0 5 0 6 0 5 0 6 0 5 0 6 0 6 0 6 0 6 0 6 0 6 0 6 0 6
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25673_12 25673_12 25673_12 25673_12 25673_12 25673_12 25673_12	00326-05461 F Total Hexe-Dia Total Hexe-Dia 200326-05461 F 32.70	DH-1005C-,	J-10-11 762 24 J-10-11	20321* 190926 1 17195* 32.81 190926 1	1 99		37 90	32	32.96	33 00		33.05		23 12	33.70		33.27	3334	332			33 26: 500 Total /	52 55 57 57 57 57 58 57 55 57 55 51 51 51 51 51 51 51 51 51 51 51 51	33 60		4 81% 4 81% 73 4 81% 73 4 81% 73 4 545% 73 4 545% 74 54% 74  74% 74% 74% 74% 74% 74% 74% 74% 7

Quantify San Vista Analytica		Page 5 of 13
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	F5:Voltage SIR,E 459.7
0CDD 41.20 7.89e3 91484	455.7 1.196e+0
41.34;6.29e2;9715	
40.40 40.60 40.80 41.00 41.20 41.40 41.60 41.80 42.00 42.20 42.40 42.60 42.80	43.00 43.20 43.40 43.60 43.80 44.00
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0-36.01 36.20 C-1,2,3,4,6, 0225R3_12 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-13C 0-1	0 36 40 3 <b>7,8-НрСDF</b> -1,2,3,4,6,7,8-Нр 1,2,3,4,6,7,8-Нр	36.60 36.80 37 DCDF;36.64;4.00e5;49 CDF;36.64;9.03e5;111 CDF;36.64;9.03e5;111 36.60 36.80 37	.00 37 20 37 40 37.60 58547 148186 .00 37.20 37.40 37.60	37.80 38.00	38.20 38.4 13C-1,2,3 13C-1,2,3 13C-1,2,3 38.20 38.4 38.16 38.27	0 38.60 38.80 4,7,8,9-HpCDF,38.72; 4,7,8,9-HpCDF;38.72; 0 38.60 38.80	3.11e5;3846443	39.40	39.60	409. 3:034ē+( 39.80 40.00 F4:Voltage SIR, 417.4 5:015e+( F4:Voltage SIR, 419.4 1.124e+(

## Work Order 2000329

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ıme: 200225	R3_12, Da	nte: 25-1	Feb-202	0, Time:	21:48:0	00, ID: 20	00329-0	5RE1 PI	DI-100S	C-J-10-	11-19092	26 11.99	, Descri	ption: F	PDI-100S	6C-J-10	-11-1909;	26	
CDF 0225R3_12								10.04										F5:Volta	
0- <u>40 06</u>				41.37;2.15	5e2;5004	41.71		42.34	12 44		42.97 43	13	43.57		44.04	44.	33 44.44	3	441 - <del>323e</del> -
0- <sup>1</sup>	40 54		40 96	41.22.41	29 41 54	41.62 41.85		42.02.42	42.49	42 71		**1**	***	12 07 1-1-1-1-1-		4	4.46	F5:Volta	
0 40.24 6-	40 54		40.96	4122 41	30 41.54	41.8	42.06	42.2342	38	4271	42.98	43	.38	43.90	43.96	44.21	44.55	44.85	443 983e
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
<b>C-OCDF</b> 225R3_12	<del>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	<del></del>	13C-OC	DF;41.36;1	.26e6;14	923419							<u> </u>					F5:Volta 1	ge SIF 453. .504e
225R3_12		1	13C-OC	DF;41.36;1	.42e6;17	156760												F5:Volta	
0- <del>1</del> 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.
E5 225R3_12 40.2	7 40.48 40	0.73 40.	41.10 86	41.21 4	1.42 41 5	52 41.70	42.07	42	2.41		43.02 43.0	8 43.32	2 43.5	9	44.03		44.44	F5:Volta	ge SIF 513.
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Quantify Sam		MassLynx 4.1 SCN	315					Page 13 of
ataset:	Untitled							
ast Altered: rinted:		February 26, 2020 08:43 February 26, 2020 08:43						
	5R3_12, Date:	25-Feb-2020, Time: 21:	48:00, ID: 2000329-05	RE1 PDI-100SC-J	-10-11-190926 11.9	9, Description: PDI	-100SC-J-10-11-1909	926
<b>FK1</b> 10225R3_12	9.93,1.59e4;25442	2 20.44 20.80;7.96e3,1484	<sup>35</sup> 22.23;3.16e3;110579 22.7	73 23.95,7.69e3;1329€	2 24.45;2.05e3;101858	24.97 25.75	26.12 26.32 26.87 27	
%	Junter	- turn - chan	- harden - an - marken					1733e+00
0	50 20.00	20.50 21 00 21.50	22.00 22.50	23.00 23.50	24.00 24.50 2	5.00 25.50 26.	00 26.50 27.00	27.50 m
19.	.50 20.00	20.50 21 00 21.50	22.00 22.50	23.00 23.50	24.00 24.50 25	5.00 25.50 20.	00 20.50 27.00	27.50
F <b>K2</b> )0225R3_12	8	28.81	29 10 29.63	29.78 20.00 30.0	00 30.15	30.61 30.87 30.96	31.31	F2:Voltage SIR,E
27.97	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	28.59 28.74 <sup>28 81</sup> 29.03	29.10 29.31 29.43 29.63	29.89	30.45 30.50	30.96	31.11 31.25 31.31 3	1.55 366.97 1.845ē+0
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0- <del>1</del> 28.00	28.20 28.40	28.60 28.80 29.00	29.20 29.40 29.6	0 29.80 30.00	30.20 30.40	30.60 30.80 31.0	00 31.20 31.40	31.60 31.80
	20.20 20.40	20.00 20.00 20.00	20.20 20.10 20.0					
F <b>K3</b> 00225R3_12					34.67;1.35e4;38382	29	35.58	F3:Voltage SIR,E
32.21	1.53e6;3379564	33	08 33.32	33.73 33.87		35.03;1.10e4;4	23717 35.40 3	35.69 380.97 8.879e+0
%								
0		2.50 22.75 22.00	33.25 33.50	33.75 34.00	34.25 34.50	34.75 35.00	35.25 35.50	35.75 36.00
32.00	32.25 3	2.50 32 75 33.00	33.25 33.30	33.75 34.00	34.25 34.50	34.75 55.00	33.23 33.30	55.75 50.00
FK4 00225R3_12							00.00.00.54	F4:Voltage SIR,E
00-1 36	6.42;1.68e6;26589	25 <u>36.42;1.68e6;2658925</u> 3	7.30.37.33 37.41 37.65 37.7	2_37.76 37.94	38.72;1.86e5;216341	38.81 39.08	39.31 39.38 39.54	39.62 430.97 6.464e+0
36.01 %-								
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36.2	20 36.40 36	.60 36.80 37.00 3	20 37.40 37.60	37 80 38.00 38	3.20 38.40 38.60	38.80 39.00	39.20 39.40 39.60	39.80 40.00
FK5								
00225R3_12	3,4.72e5,1143884	10.7940.94 41.12 41.21 4	.50 41.71.41.75 42.0542	42.53 42.65 42	74 42.92 43.13 43	3443 37 43 64 43 81	3.88 44.12 44.38 44	
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	25 40.50 40	.75 41 00 41.25 4	.50 41.75 42.00		1		44.00 44.25 44.50	

## CONTINUING CALIBRATION

## HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID: ST200225R3-1		F	Reviewed By: <u>(7 UZ/26/2020</u> Initials & Date	_	
End Calibration ID:NA					
	Beg.	End		Beg.	End
Ion abundance within QC limits?	$\checkmark$	NA	Mass resolution >		7
Concentrations within criteria?	_	ф	□ 5k □ 6-8K □ 8K 📌 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%		Þ	Intergrated peaks display correctly?	$\checkmark$	NA
First and last eluters present?	$\checkmark$		GC Break <20%		
<b>Retention Times within criteria?</b>			8280 CS1 End Standard:		
Verification Std. named correctly?	$\checkmark$		- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		NA
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?			Comments:		
Correct ICAL referenced?	GRB				
Run Log:					
- Correct instrument listed?		V			
- Samples within 12 hour clock?	$\langle \gamma \rangle$	N			
- Bottle position verfied?	GRB				

Quantify Sample Summary Report	MassLynx 4.1 SCN815
Vista Analytical Laboratory	

U:\VG12.PRO\Results\200225R3\200225R3-1.gld Dataset:

Last Altered:	Wednesday, February 26, 2020 08:52:31 Pacific Standard Time
Printed:	Wednesday, February 26, 2020 08:53:48 Pacific Standard Time

GRB\_02/26/2020 C7 U2/26/2020

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5 1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

13	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.68e5	1.84e6	0.76	NO	0.988	25.77	25.75	NO	1.001	1.001	9.2493	92.5	NO
2	2 1,2,3,7,8-PeCDD	6.09e5	1.42e6	0.62	NO	0.972	30.86	30.85	NO	1.001	1.000	44.277	88.6	NO
3	3 1,2,3,4,7,8-HxCDD	5.15e5	9.89e5	1.24	NO	1.07	34.21	34.22	NO	1.000	1.001	48.634	97.3	NO
4	4 1,2,3,6,7,8-HxCDD	5.86e5	1.28e6	1.24	NO	0.921	34.31	34.32	NO	1.000	1.000	49.782	99.6	NO
5	5 1,2,3,7,8,9-HxCDD	4.94e5	1.12e6	1.25	NO	0.918	34.61	34.59	NO	1.001	1.001	47.937	95.9	NO
6	6 1,2,3,4,6,7,8-HpCDD	4.00e5	8.86e5	0.99	NO	0.923	38.09	38.09	NO	1.000	1.000	48.853	97.7	NO
7	7 OCDD	8.03e5	1.69e6	0.88	NO	0.975	41.19	41.20	NO	1.000	1.000	97.637	97.6	NO
8	8 2,3,7,8-TCDF	1.98e5	2.36e6	0.74	NO	0.802	24.82	24.82	NO	1.001	1.001	10.449	104	NO
9	9 1,2,3,7,8-PeCDF	8.82e5	1.93e6	1.54	NO	0.907	29.54	29.54	NO	1.001	1.001	50.335	101	NO
10	10 2,3,4,7,8-PeCDF	8.90e5	1.90e6	1.54	NO	0.952	30.55	30.53	NO	1.001	1.000	49.128	98.3	NO
11	11 1,2,3,4,7,8-HxCDF	6.27e5	1.31e6	1.20	NO	0.862	33.35	33.36	NO	1.000	1.000	55.518	111	NO
12	12 1,2,3,6,7,8-HxCDF	7.31e5	1.55e6	1.20	NO	0.841	33.48	33.48	NO	1.000	1.000	56.116	112	NO
13	13 2,3,4,6,7,8-HxCDF	6.89e5	1.37e6	1.20	NO	0.898	34.06	34.05	NO	1.001	1.001	55.868	112	NO
14	14 1,2,3,7,8,9-HxCDF	5.36e5	1.15e6	1.23	NO	0.858	34.92	34.94	NO	1.000	1.000	54.159	108	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.86e5	1.06e6	1.01	NO	0.851	36.70	36.67	NO	1.001	1.000	53.906	108	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.82e5	6.80e5	1.02	NO	0.980	38.73	38.74	NO	1.000	1.000	57.277	115	NO
17	17 OCDF	8.49e5	1.97e6	0.89	NO	0.806	41.37	41.38	NO	1.000	1.000	107.04	107	NO
18	18 13C-2,3,7,8-TCDD	1.84e6	1.58e6	0.78	NO	1.20	25.71	25.74	NO	1.026	1.027	97.017	97.0	NO
19	19 13C-1,2,3,7,8-PeCDD	1.42e6	1.58e6	0.63	NO	0.967	30.45	30.83	NO	1.215	1.230	92.397	92.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	9.89e5	1.32e6	1.26	NO	0.874	34.20	34.20	NO	1.014	1.014	85.396	85.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.28e6	1.32e6	1.25	NO	1.05	34.31	34.31	NO	1.017	1.017	92.175	92.2	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.12e6	1.32e6	1.25	NO	0.974	34.61	34.57	NO	1.026	1.025	86.966	87.0	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.86e5	1.32e6	1.04	NO	0.747	38.18	38.08	NO	1.132	1.129	89.522	89.5	NO
24	24 13C-OCDD	1.69e6	1.32e6	0.89	NO	0.707	41.09	41.19	NO	1.218	1.221	180.26	90.1	NO
25	25 13C-2,3,7,8-TCDF	2.36e6	2.22e6	0.77	NO	1.07	24.89	24.79	NO	0.993	0.989	99.599	99.6	NO
26	26 13C-1,2,3,7,8-PeCDF	1.93e6	2.22e6	1.58	NO	1.00	29.47	29.52	NO	1.176	1.178	86.791	86.8	NO
27	27 13C-2,3,4,7,8-PeCDF	1.90e6	2.22e6	1.53	NO	0.962	30.44	30.51	NO	1.215	1.218	89.125	89.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.31e6	1.32e6	0.51	NO	1.05	33.33	33.35	NO	0.988	0.989	94.224	94.2	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.55e6	1.32e6	0.51	NO	1.19	33.43	33.47	NO	0.991	0.992	98.159	98.2	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.37e6	1.32e6	0.52	NO	1.07	34.04	34.03	NO	1.009	1.009	97.150	97.1	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.15e6	1.32e6	0.53	NO	0.922	34.95	34.92	NO	1.036	1.035	94.345	94.3	NO

# Quantify Sample Summary ReportMassLynx 4.1 SCN815Vista Analytical Laboratory

#### Dataset: U:\VG12.PRO\Results\200225R3\200225R3-1.qld

Last Altered:	Wednesday, February 26, 2020 08:52:31 Pacific Standard Time
Printed:	Wednesday, February 26, 2020 08:53:48 Pacific Standard Time

2-2-21	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.06e6	1.32e6	0.44	NO	0.767	36.70	36.66	NO	1.088	1.087	104.16	104	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.80e5	1.32e6	0.43	NO	0.552	38.72	38.73	NO	1.148	1.148	92.930	92.9	NO
34	34 13C-OCDF	1.97e6	1.32e6	0.88	NO	0.789	41.32	41.37	NO	1.225	1.226	188.28	94.1	NO
35	35 37CI-2,3,7,8-TCDD	1.73e5	1.58e6			1.18	25.74	25.75	NO	1.027	1.027	9.2935	92.9	NO
36	36 13C-1,2,3,4-TCDD	1.58e6	1.58e6	0.79	NO	1.00	25.11	25.06	NO	1.000	1.000	100.00	100	NO
37	37 13C-1.2,3,4-TCDF	2.22e6	2.22e6	0.79	NO	1.00	23.37	23.30	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.32e6	1.32e6	0.51	NO	1.00	33.71	33.73	NO	1.000	1.000	100.00	100	YES
39	39 Total Tetra-Dioxins		1.84e6			0.988	24.62		NO	0.000		80.962		NO
40	40 Total Penta-Dioxins		1.42e6			0.972	29.96		NO	0.000		196.18		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		246.80		NO
42	42 Total Hepta-Dioxins		8.86e5			0.923	37.64		NO	0.000		134.48		NO
43	43 Total Tetra-Furans		2.36e6			0.802	23.61		NO	0.000		50.277		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000		95.380		NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		175.25		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		314.34		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		111.39		NO

and the second	ple Summary Report al Laboratory VG-11	MassLynx 4.1 SCN815
Dataset:	U:\VG12.PRO\Results\20	0225R3\200225R3-CPSM.qld
Last Altered: Printed:		20 13:58:44 Pacific Standard Time 20 13:59:10 Pacific Standard Time

### Method: Untitled 23 Jan 2020 15:01:26 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

100	# Name	RT
1	1 1,3,6,8-TCDD (First)	21.59
2	2 1,2,8,9-TCDD (Last)	26.75
3	3 1,2,4,7,9-PeCDD (First)	28.59
4	4 1,2,3,8,9-PeCDD (Last)	31.23
5	5 1,2,4,6,7,9-HxCDD (First)	32.75
6	6 1,2,3,7,8,9-HxCDD (Last)	34.59
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.06
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.09
9	9 1,3,6,8-TCDF (First)	19.55
10	10 1,2,8,9-TCDF (Last)	26.90
11	11 1,3,4,6,8-PeCDF (First)	26.87
12	12 1,2,3,8,9-PeCDF (Last)	31.48
13	13 1,2,3,4,6,8-HxCDF (First)	32.19
14	14 1,2,3,7,8,9-HxCDF (Last)	34.94
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.67
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.74

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

Dataset: Untitled

Last Altered: Wednesday, February 26, 2020 08:56:40 Pacific Standard Time Printed: Wednesday, February 26, 2020 08:56:43 Pacific Standard Time

#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

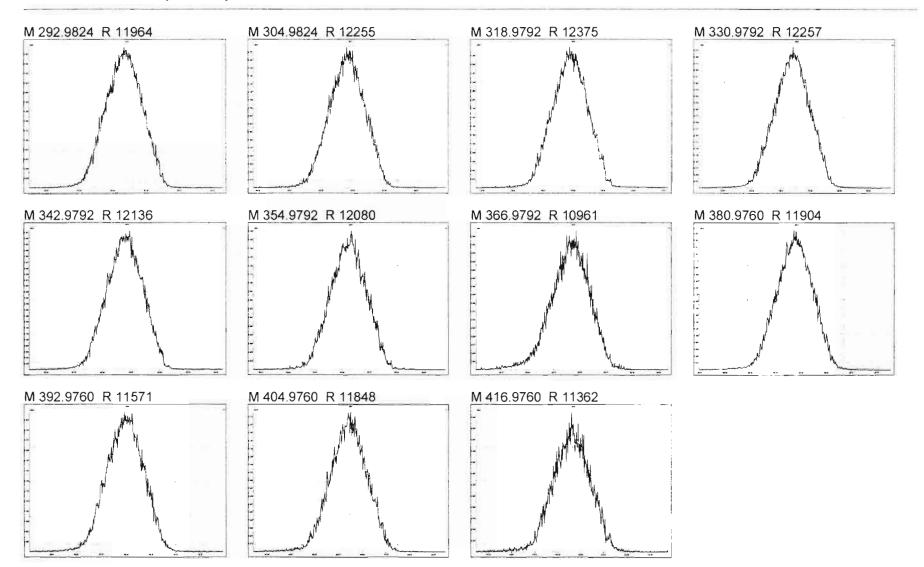
150	Name	ID	Acq.Date	Acq.Time
1	200225R3_1	ST200225R3_1 1613 CS3 19L2305	25-Feb-20	13:07:03
2	200225R3_2	B0B0195-BS1 OPR 10	25-Feb-20	13:54:46
3	200225R3_3	SOLVENT BLANK	25-Feb-20	14:41:14
4	200225R3_4	SOLVENT BLANK	25-Feb-20	15:28:42
5	200225R3_5	B0B0195-BLK1 Method Blank 10	25-Feb-20	16:16:03
6	200225R3_6	2000301-01RE1 PDI-077SC-A-02-03-191014	25-Feb-20	17:03:29
7	200225R3_7	2000329-01RE1 PDI-100SC-J-06-07-190926	25-Feb-20	17:50:55
8	200225R3_8	2000329-02RE1 PDI-100SC-J-07-08-190926	25-Feb-20	18:38:19
9	200225R3_9	2000329-03RE1 PDI-100SC-J-08-09-190926	25-Feb-20	19:25:44
10	200225R3_10	2000329-04RE1 PDI-100SC-J-09-10-190926	25-Feb-20	20:13:11
11	200225R3_11	B0B0195-DUP1 Duplicate 14.48	25-Feb-20	21:00:35
12	200225R3_12	2000329-05RE1 PDI-100SC-J-10-11-190926 1	. 25-Feb-20	21:48:00
13	200225R3_13	SOLVENT BLANK	25-Feb-20	22:44:20

## MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Tuesday, February 25, 2020 13:02:47 Pacific Standard Time

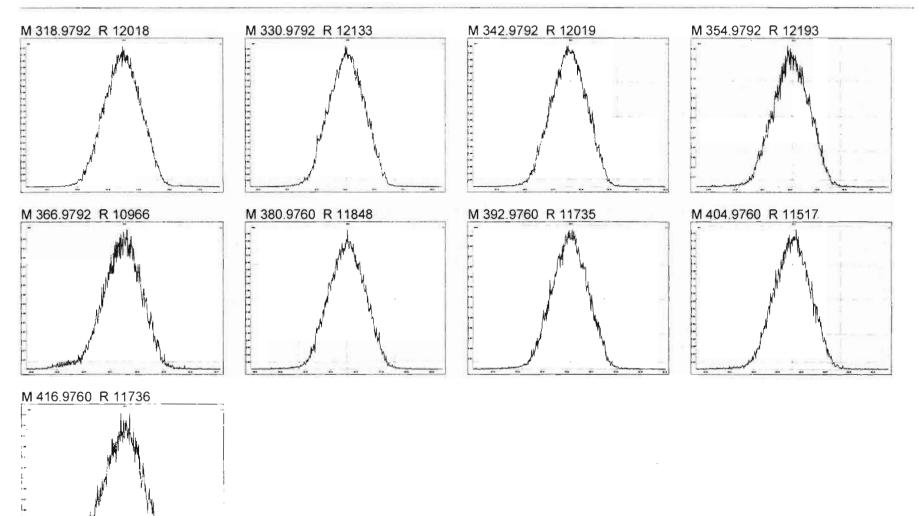


## MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Tuesday, February 25, 2020 13:03:26 Pacific Standard Time

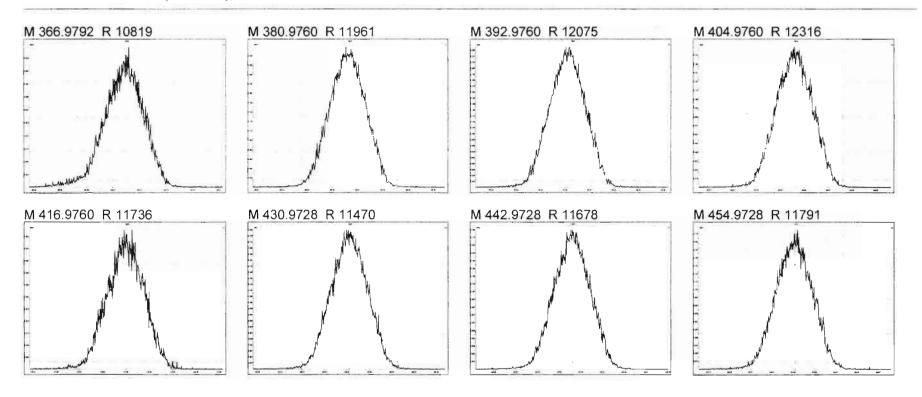


## MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Tuesday, February 25, 2020 13:04:04 Pacific Standard Time

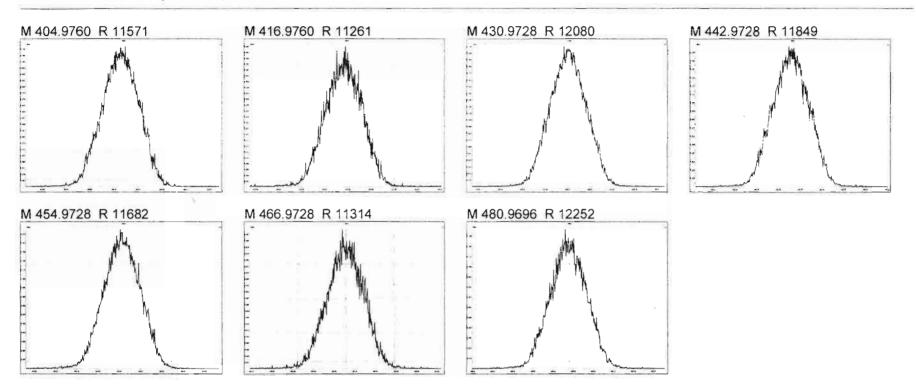


## MassLynx 4.1 SCN815

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

Printed:

Tuesday, February 25, 2020 13:04:45 Pacific Standard Time



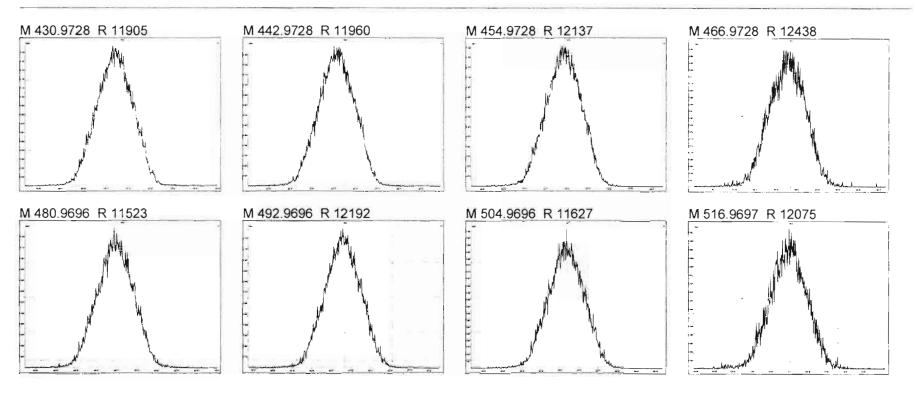
## MassLynx 4.1 SCN815

Page 1 of 1

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

Printed:

Tuesday, February 25, 2020 13:05:10 Pacific Standard Time



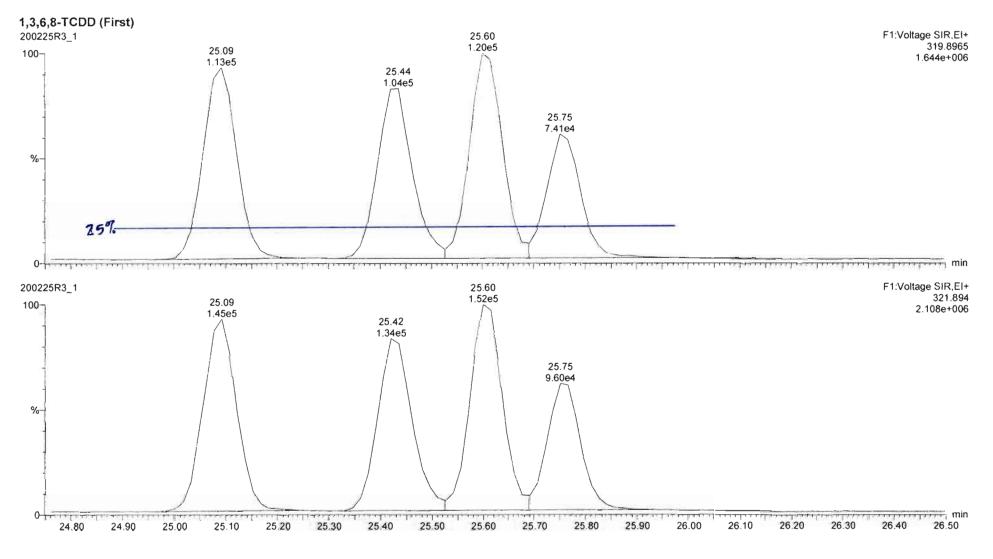
## Quantify Sample Report MassLynx 4.1 SCN815 Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\200225R3\200225R3-CPSM.qld

Last Altered: Tuesday, February 25, 2020 13:58:44 Pacific Standard Time Tuesday, February 25, 2020 13:59:10 Pacific Standard Time

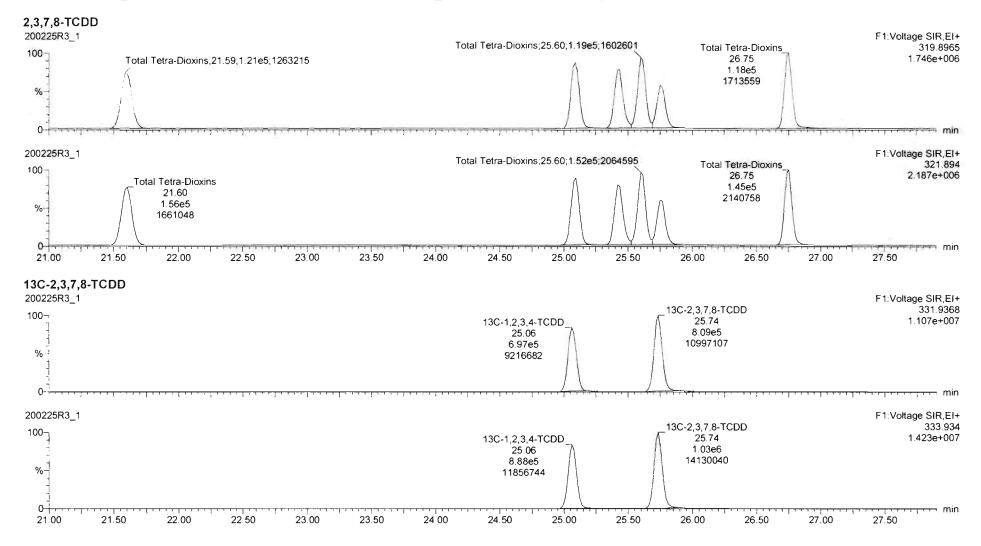
GEB 02/26/2020

#### Method: Untitled 23 Jan 2020 15:01:26 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

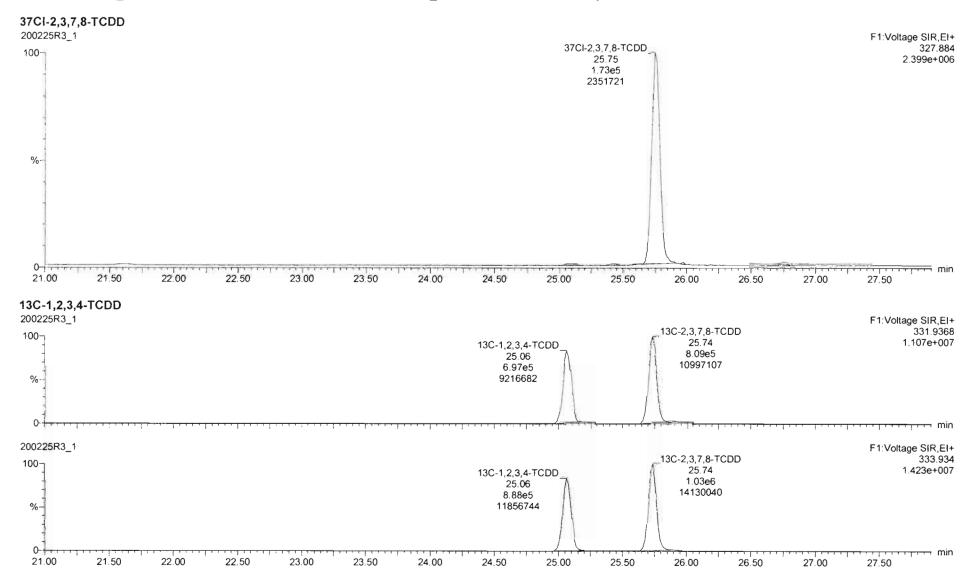


Quantify Sam Vista Analytica		MassLynx 4.1 SCN815	Page 1 of 26
Dataset:	Untitled		
Last Altered: Printed:		ebruary 26, 2020 08:39:13 Pacific Standard Time ebruary 26, 2020 08:39:24 Pacific Standard Time	

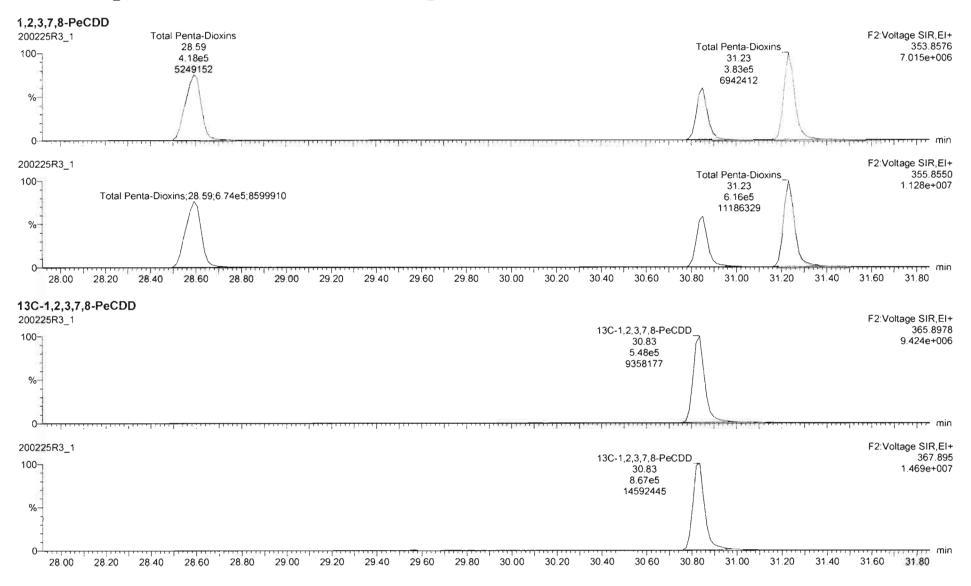
#### Method: U:\VG12.PRO\MethDB\1613rrt-02-14-20.mdb 14 Feb 2020 10:26:00 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29



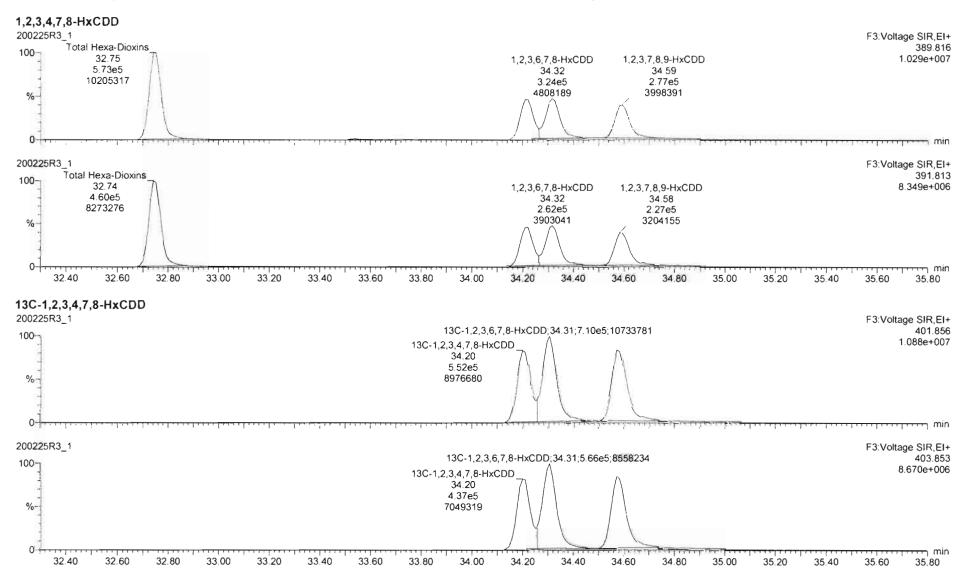
Quantify Sam Vista Analytica		Page 2 of 26
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:39:13 Pacific Standard Time Wednesday, February 26, 2020 08:39:24 Pacific Standard Time	

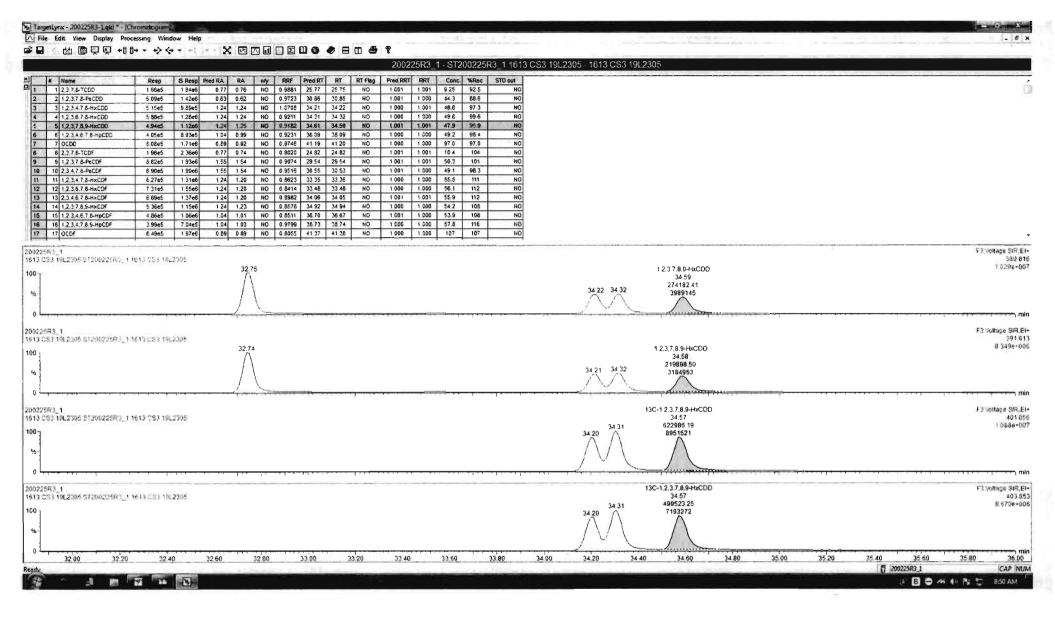


Quantify Sam Vista Analytica		Page 3 of 26
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:39:13 Pacific Standard Time Wednesday, February 26, 2020 08:39:24 Pacific Standard Time	

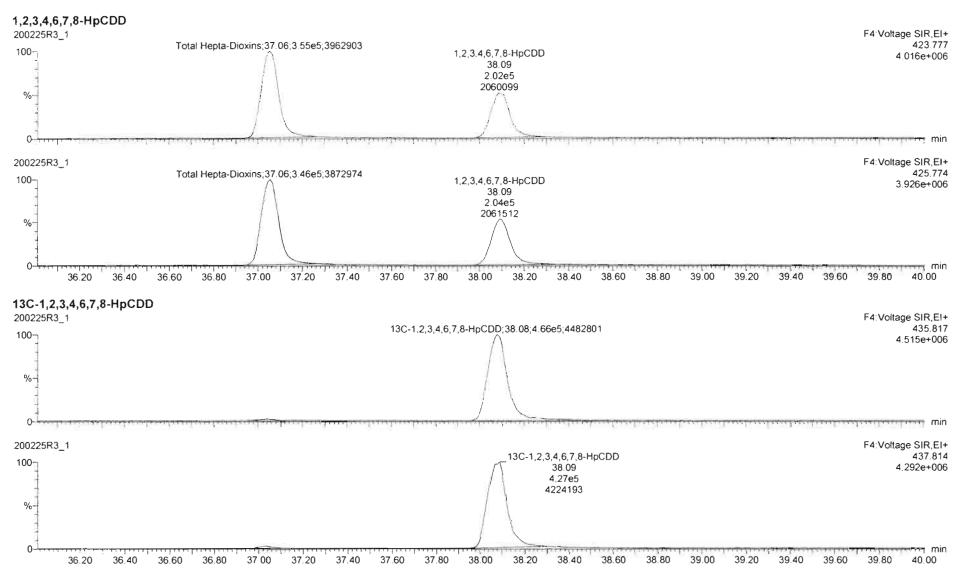


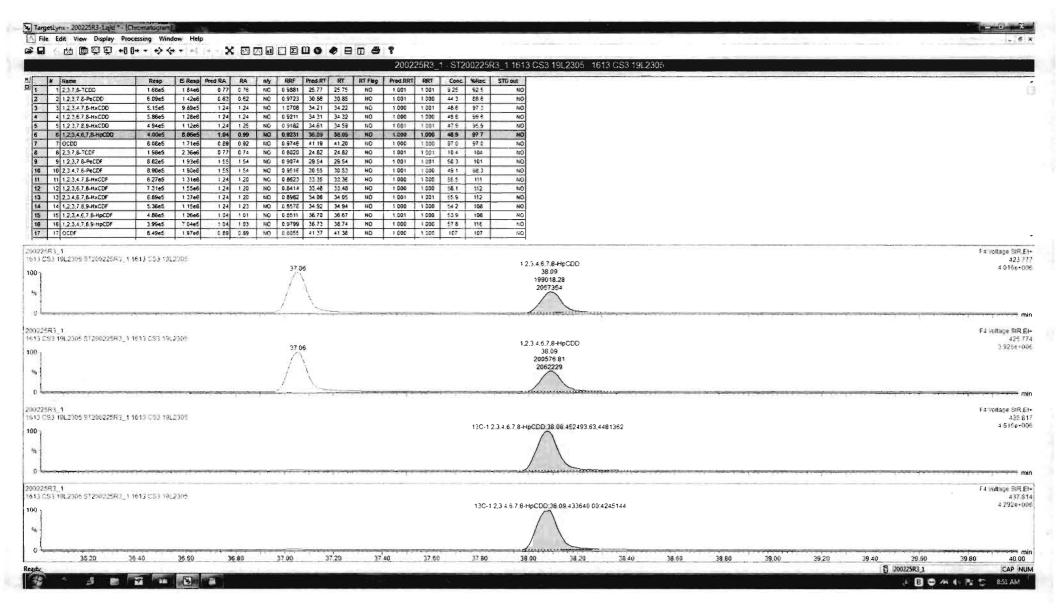
Quantify Sam Vista Analytica		Page 4 of 26
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:39:13 Pacific Standard Time Wednesday, February 26, 2020 08:39:24 Pacific Standard Time	



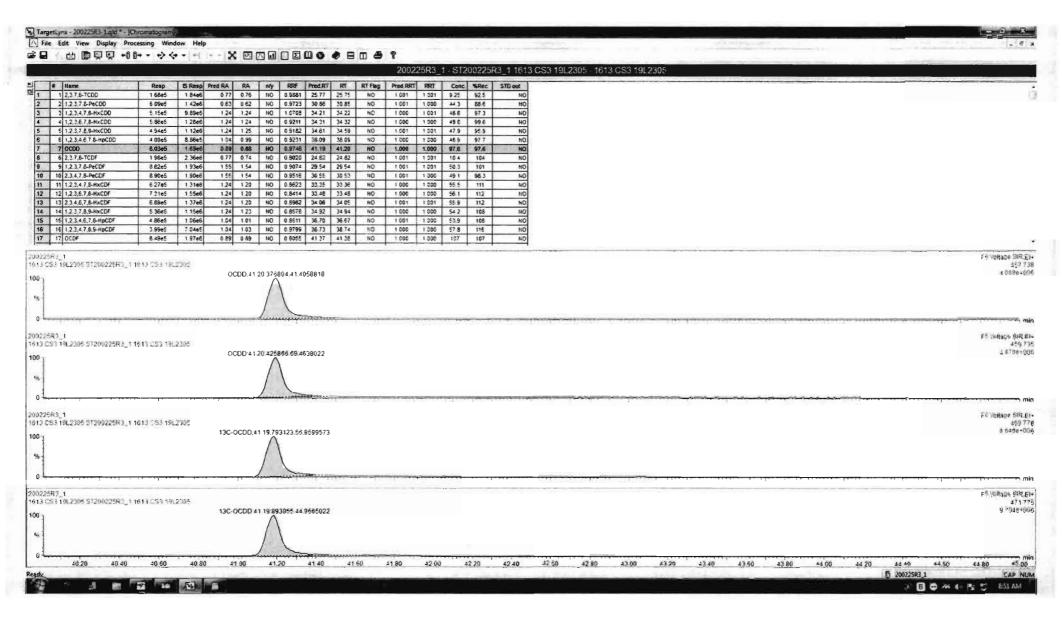


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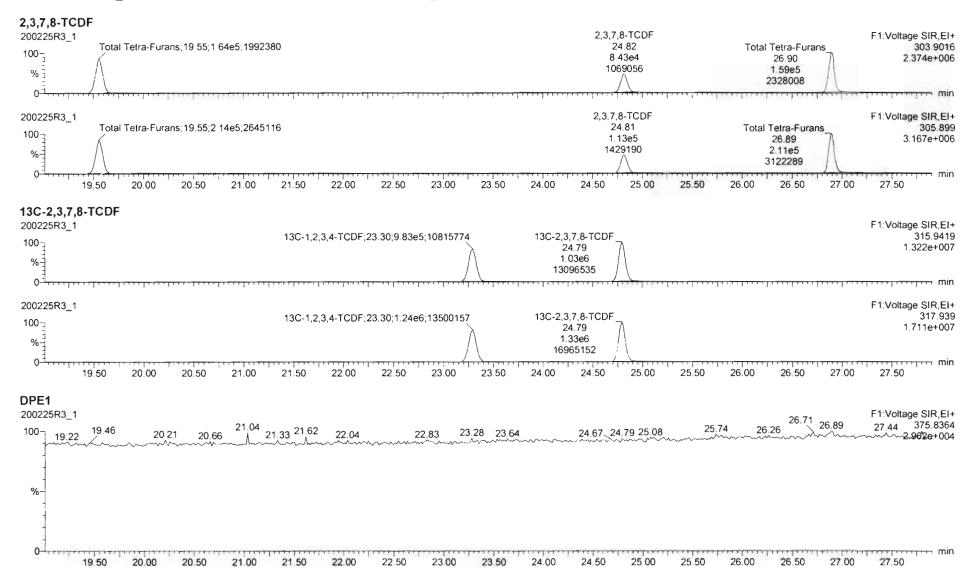




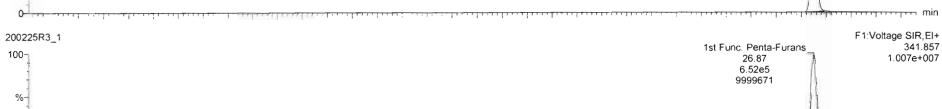
26	Page 6 of 26										315	/nx 4.1 SCN8	MassLy		iantify Sampl sta Analytical L
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		5	J  JL200	010 000	puon. i	Descri	JE2000,	19 039 1	5K3_1 10	5120022		Tune, 19.0	-en-2020,	_1, Date. 20-1	DD
38	F5:Voltage SIR,EI+ 457.738 4.089e+006										OCDD 41.20 3.87e5 4056265	ſ			0225R3_1 1 ]
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	4.670e+006										41.20 4.21e5 4612144	$\int$			0-
															/o
	min 3.40 43.60 43.80 44.00	43.20 43.40	43.00	42.80	42.60	42.40	42.20	42.00	) 41.80	0 41.60	20 41.40	41.00 41.	40.80	40.40 40.60	40.20
+	F5:Voltage SIR,EI+														C-OCDD 0225R3_1
	469.778 8.646e+006									)	13C-OCDD 41.19 7.83e5 8560088	$\bigwedge$			0-
-										-					<b>%</b>
+	min F5:Voltage SIR,EI+			1				1,11,11,11,11,11	تر بيا يتحملين	- بالمحدثية			ز . <del></del>		0225R3_1
75	471.775 9.704e+006									)	_13C-OCDD 41.19 9.26e5 9665792				~ ~
in											1	1			3

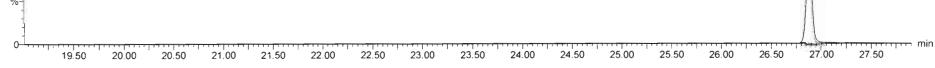


Quantify San Vista Analytica		Page 7 of 26
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:39:13 Pacific Standard Time Wednesday, February 26, 2020 08:39:24 Pacific Standard Time	

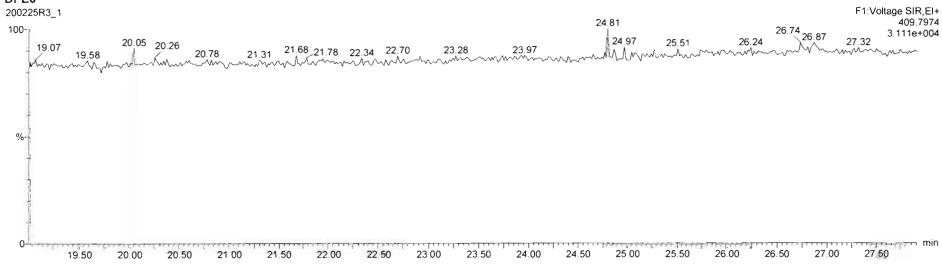


Quantify San Vista Analytica			Page 8 of 26
Dataset:	Untitled		
Last Altered: Printed:	Wednesday, February 26, 2020 08:39:13 Pacific Standard Time Wednesday, February 26, 2020 08:39:24 Pacific Standard Time		
Name: 20022	R3_1, Date: 25-Feb-2020, Time: 13:07:03, ID: ST200225R3_1 1613 CS3 19L2305, Description: 16	613 CS3 19I 2305	
Mame. LUULL	1(3_1, Date: 23-1 6D-2020, 11me: 10.01.00, 1D: 01200220100_1 1010 0000 1022000, D00011p.0011 10		and the second
1st Func. Per	a-Furans		ne kë dit
	ta-Furans		F1:Voltage SIR,EI+
<b>1st Func. Per</b> 200225R3_1	ta-Furans	1st Func. Penta-Furans 26.87 1.01e6 15525716	





DPE6

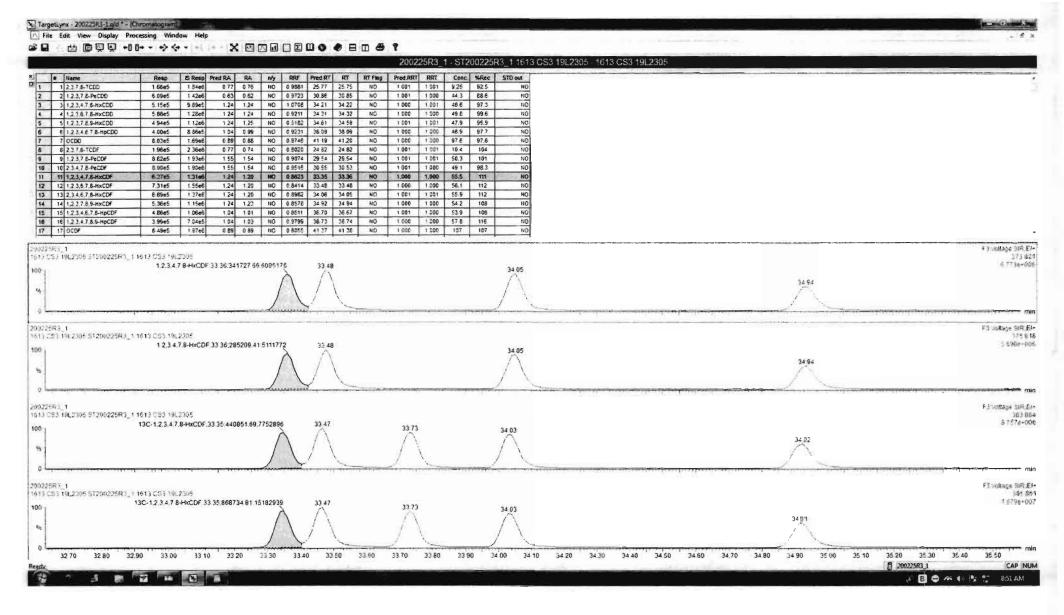


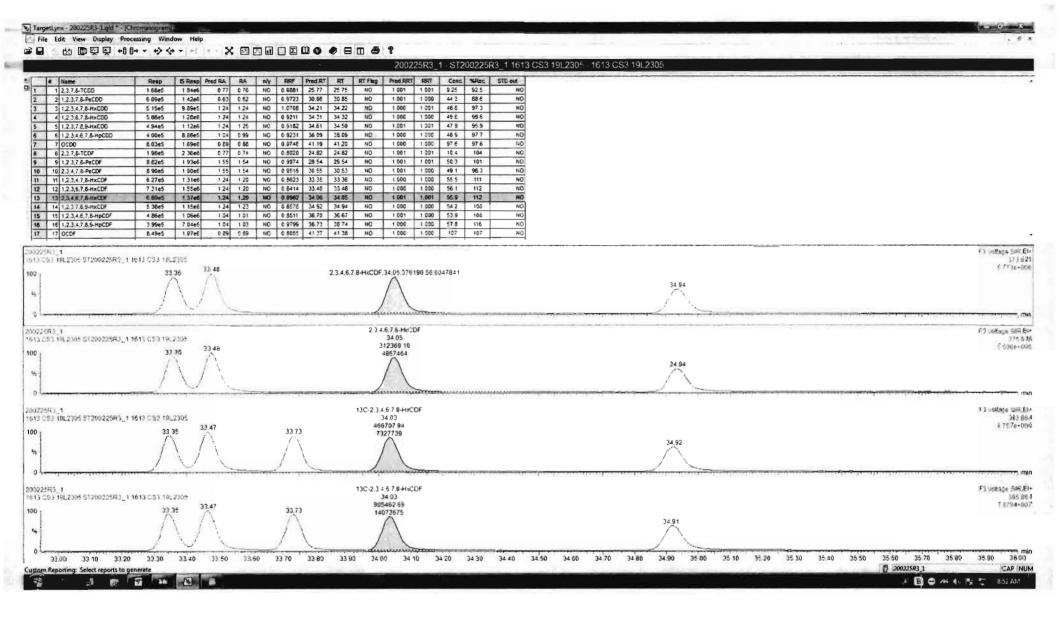
Quantify Sam		Page 9 of 26
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, February 26, 2020 08:39:13 Pacific Standard Time Wednesday, February 26, 2020 08:39:24 Pacific Standard Time	

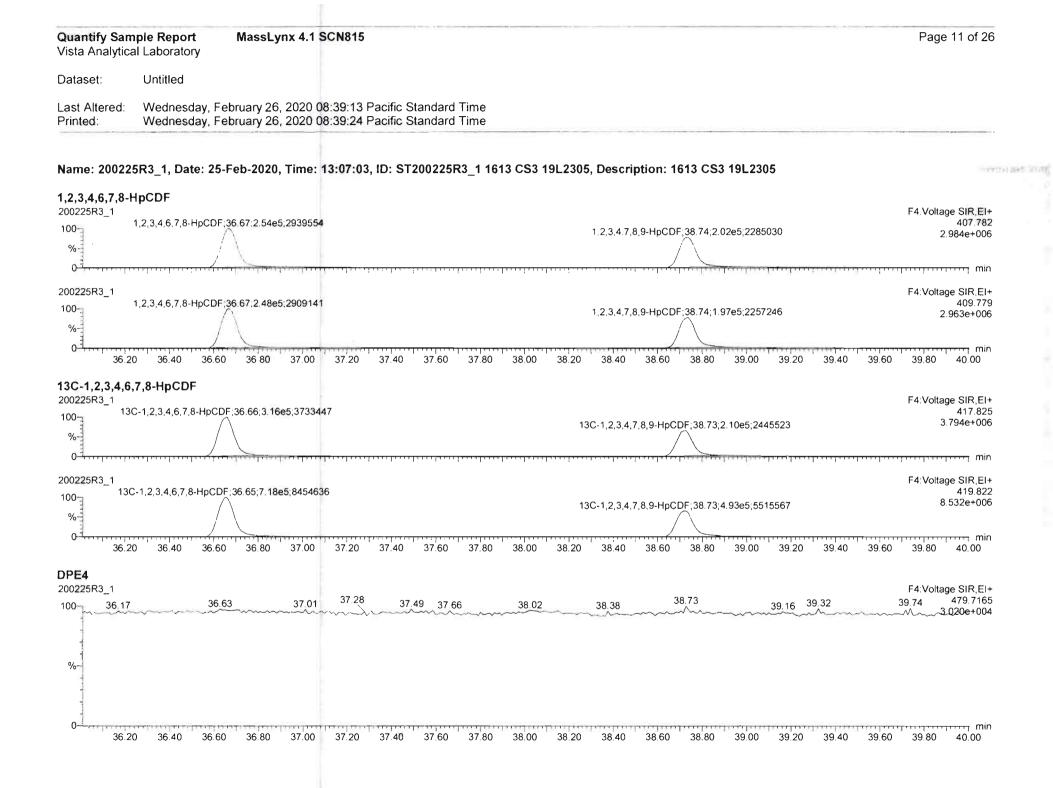
1,2,3,7,8-PeCDF 200225R3_1		Total Penta-Furans;31 4	18:7 82e5:14001266 F2:Voltage SIR,EI+
100	1.2,3,7,8-PeCDF;29.54;5.35e5;9446075	2,3,4,7,8-PeCDF;30.53;5.40e5;10004766	339.860 1.411e+007
%-	1.2,3,7,6-FeCDF,29.34,5.55e5,9446075	2.0,4,1,0 + 0021,00000,0000,0000	
0			min min
200225R3_1		Total Penta-Furans;31	.48;5.12e5;9104454 F2:Voltage SIR,EI+
100-3	1,2,3,7,8-PeCDF;29,54;3,47e5;6004380	2,3,4,7,8-PeCDF;30.53;3.50e5;6380437	341 857 9.170e+006
%		$\wedge$	/ \
0 <sup>-1</sup>	D 29.20 29.40 29.60 29.80 30	.00 30.20 30.40 30.60 30.80 31.00	31.20 31.40 31.60 31.80
13C-1,2,3,7,8-PeCDF			F2:Voltage SIR,EI+
200225R3_1 100_	13C-1,2,3,7,8-PeCDF_	13C-2,3,4,7,8-PeCDF_	351.900
%	29.52 1.18e6	30.51 1.15e6	2.157e+007
	20678504	21381896	
0- <u></u>			ייייייזיייוייייוייייוייייייייייייייייי
200225R3_1	13C-1,2,3,7,8-PeCDF;29.52;7.50e5;13039319	13C-2,3,4,7,8-PeCDF	F2:Voltage SIR,EI+ 353.897
100-	A	30.51	1.370e+007
		7.52e5 / \	
%-1	/ \	13607546 / \	
0 28.00 28.20 28.40 28.60 28.80 29.00	0 29.20 29.40 29.60 29.80 30		31.20 31.40 31.60 31.80
0	0 29.20 29.40 29.60 29.80 30	13607546	
0 28.00 28.20 28.40 28.60 28.80 29.00 DPE2 200225R3_1		13607546 0.00 30.20 30.40 30.60 30.80 31.00	31.20 31.40 31.60 31.80 F2:Voltage SIR,EI+
0 28.00 28.20 28.40 28.60 28.80 29.00 DPE2		13607546	31.20 31.40 31.60 31.80 F2:Voltage SIR,EI+
0 28.00 28.20 28.40 28.60 28.80 29.00 DPE2 200225R3_1		13607546 0.00 30.20 30.40 30.60 30.80 31.00	31.20 31.40 31.60 31.80 F2:Voltage SiR,EI+ 409.7974
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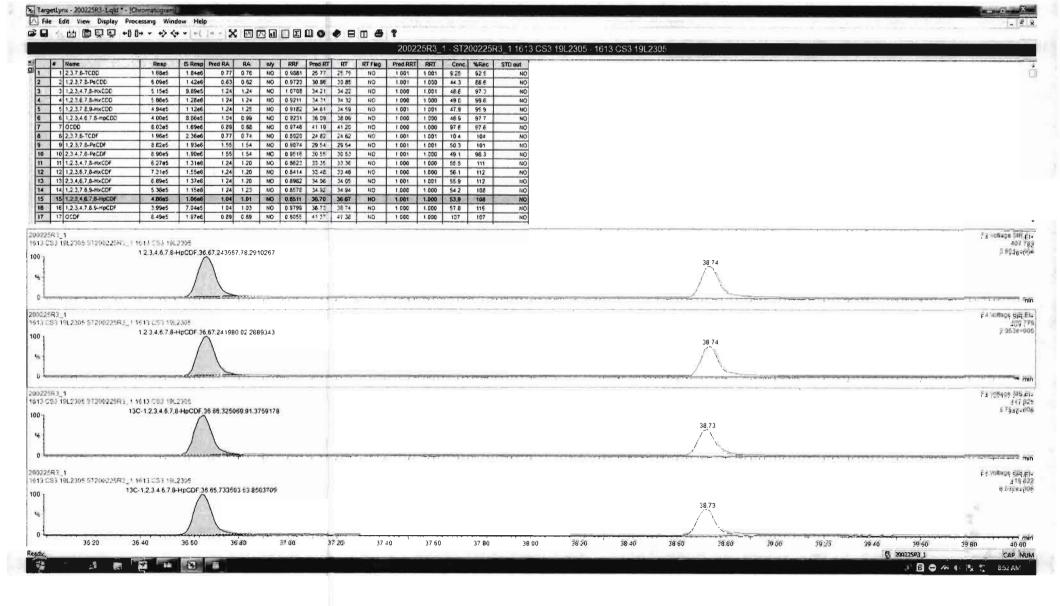
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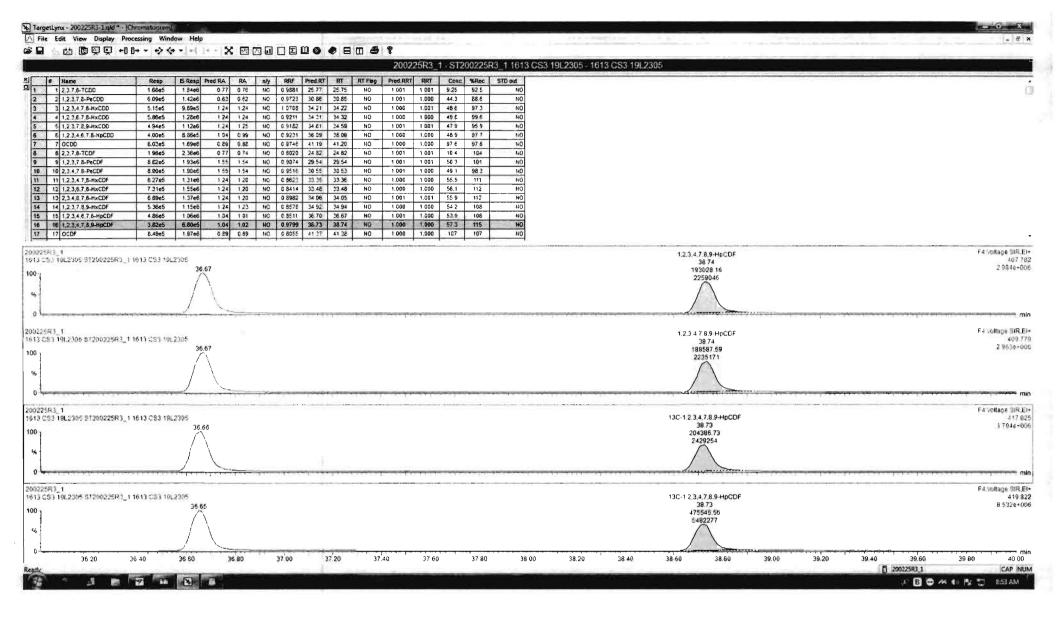
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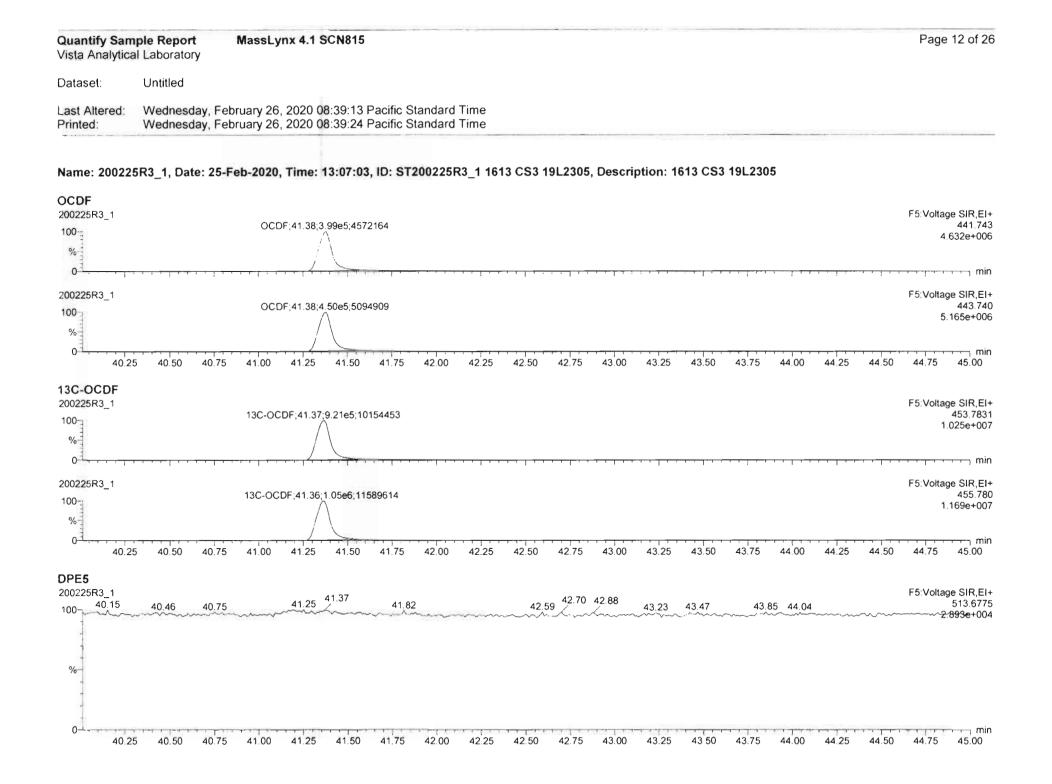








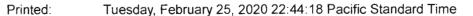


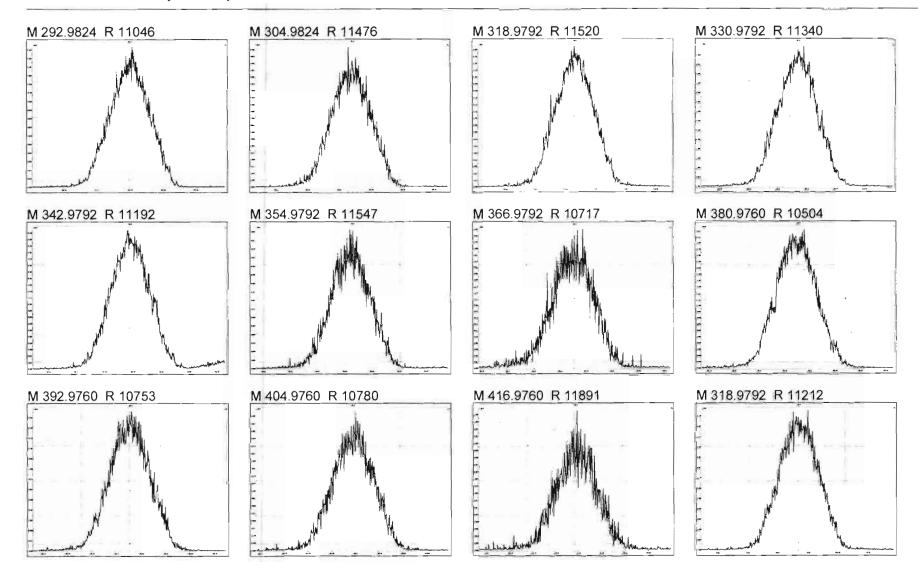


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<b>K4</b> 0225R3_1 0225R3_1 0 32.00 <b>FK4</b> 0225R3_1 0 39.30 <b>GK5</b> 0225R3_1	35.38;1.21 32.25 3.90e6,464767 0 36.40 3	e7;1414201 32.50 32.75 39.30;6 90e6;46476 6.60 36.80	35.38;1.21e7;141420 33.00 33.2 7 39.30;6.90e6; 37.00 37.20 3	1 35.38;1.21e7;14142 25 33.50 33 464767 39.30;6.90e 7,40 37.60 37.6	01 35.38;1.21e7;1414201 75 34.00 34.2 6;464767 39.30; 0 38.00 38.20	35.38;1.21e7;14 25 34.50 6.90e6;464767 38.40 38.60	14201 34.75 35.00 39.30;6.90e6 38.80 39.00	<u>35.38;1.21e7;14142</u> 35.25 35.50 ;464767 <u>39.6</u> 39.20 39.40 3	F3: Voltage S 01 380 1.246 35.75 36 0 F4: Voltage S 39.70 430 8.910 9.60 39.80 40 F5: Voltage S
<b>K4</b> 0225R3_1 0225R3_1 0 32.00 <b>K4</b> 0225R3_1 0 39.30; 39.30; 36.01 <b>K5</b> 0225R3_1 0 <b>K5</b> 0225R3_1 0 <b>K5</b> 0225R3_1	35.38;1.21 32.25 3.90e6;464767	e7;1414201 32.50 32.75 39.30;6 90e6;46476	35.38;1.21e7;141420 33.00 33.2 7 39.30;6.90e6; 37.00 37.20 3	1 35.38;1.21e7;14142 25 33.50 33 464767 39.30;6.90e	01 35.38;1.21e7;1414201 75 34.00 34.2 6;464767 39.30; 0 38.00 38.20	35.38;1.21e7;14 25 34.50 6.90e6;464767	14201 34.75 35.00 39.30;6.90e6 38.80 39.00	<u>35.38;1.21e7;14142</u> 35.25 35.50 ;464767 <u>39.6</u> 39.20 39.40 3	F3:Voltage S 01 380 1.246 35.75 36 0 F4:Voltage S 39.70 430 8.910 9.60 39.80 40
<b>FK3</b> 0225R3_1 00225R3_1 00 32.00 <b>FK4</b> 00225R3_1 00 39.30 <b>GK5</b> 00225R3_1 0 <b>GK5</b> 00225R3_1	35.38;1.21 32.25 3.90e6,464767 0 36.40 3	e7;1414201 32.50 32.75 39.30;6 90e6;46476 6.60 36.80	35.38;1.21e7;141420 33.00 33.2 7 39.30;6.90e6; 37.00 37.20 3	1 35.38;1.21e7;14142 25 33.50 33 464767 39.30;6.90e 7,40 37.60 37.6	01 35.38;1.21e7;1414201 75 34.00 34.2 6;464767 39.30; 0 38.00 38.20	35.38;1.21e7;14 25 34.50 6.90e6;464767 38.40 38.60	14201 34.75 35.00 39.30;6.90e6 38.80 39.00	<u>35.38;1.21e7;14142</u> 35.25 35.50 ;464767 <u>39.6</u> 39.20 39.40 3	F3: Voltage S 01 380 1.246 35.75 36 0 F4: Voltage S 39.70 430 8.910 9.60 39.80 40 F5: Voltage S 344.68.44.83 454
<pre>% 0 28.00 FK3 00225R3_1 00 32.00 FK4 00225R3_1 00 36.01 % 0 36.01 % 0 36.01 % 36.0 </pre>	35.38;1.21 32.25 3.90e6,464767 0 36.40 3	e7;1414201 32.50 32.75 39.30;6 90e6;46476 6.60 36.80	35.38;1.21e7;141420 33.00 33.2 7 39.30;6.90e6; 37.00 37.20 3	1 35.38;1.21e7;14142 25 33.50 33 464767 39.30;6.90e 7,40 37.60 37.6	01 35.38;1.21e7;1414201 75 34.00 34.2 6;464767 39.30; 0 38.00 38.20	35.38;1.21e7;14 25 34.50 6.90e6;464767 38.40 38.60	14201 34.75 35.00 39.30;6.90e6 38.80 39.00	<u>35.38;1.21e7;14142</u> 35.25 35.50 ;464767 <u>39.6</u> 39.20 39.40 3	F3: Voltage S 01 380 1.246 35.75 36 0 F4: Voltage S 39.70 430 8.910 9.60 39.80 40 F5: Voltage S 344.68.44.83 454

## MassLynx 4.1 SCN815

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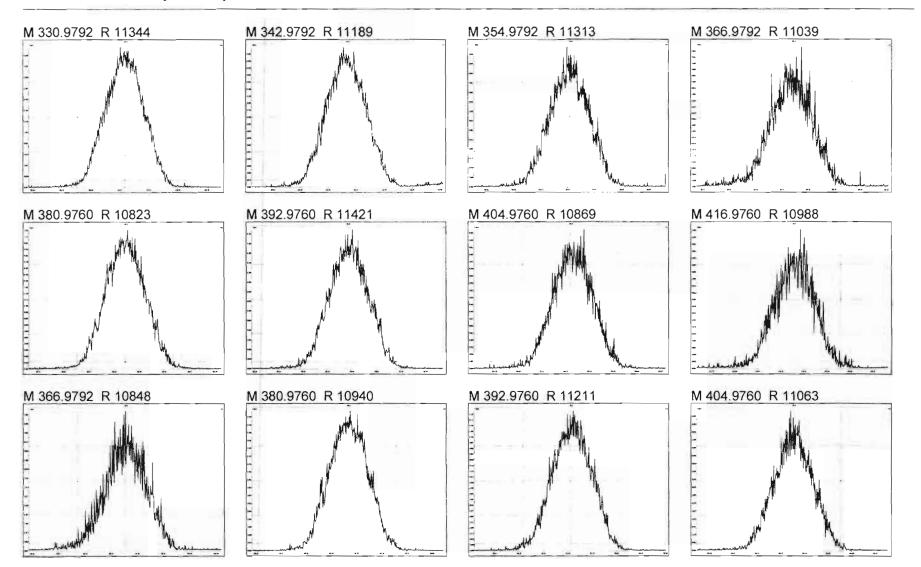




MassLynx 4.1 SCN815

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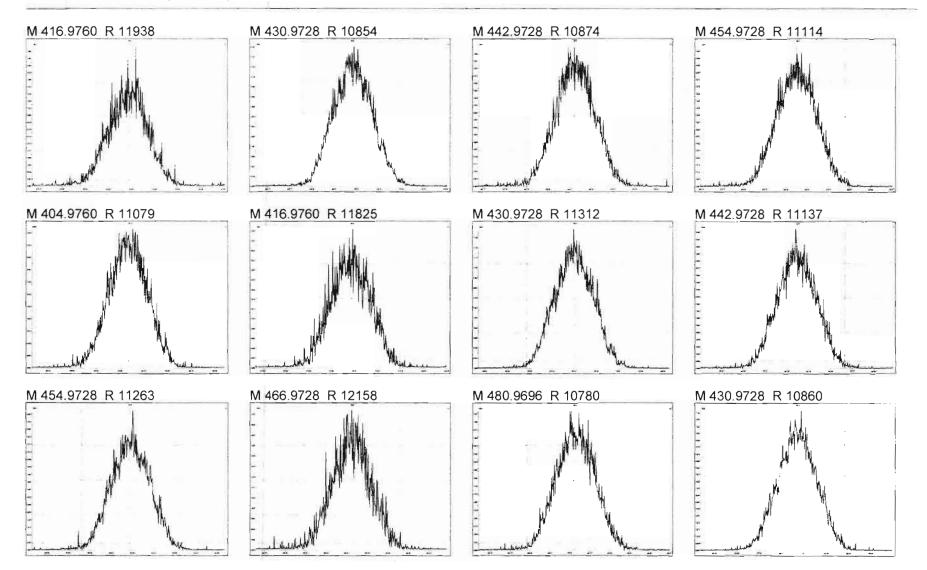
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MassLynx 4.1 SCN815

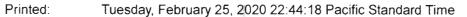
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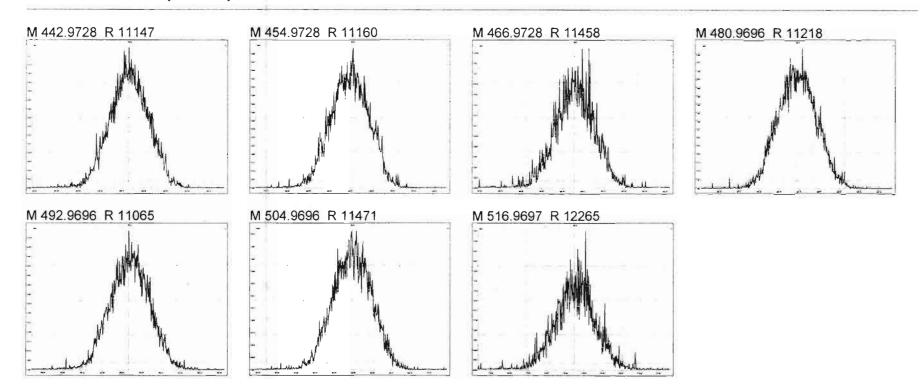




MassLynx 4.1 SCN815

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## **INITIAL CALIBRATION**

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

Dataset:	U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered:	Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
Printed:	Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

GRB 02/2020 (- 07/04/2020

#### Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD Response Factor: 0.988069 RRF SD: 0.0483829, Relative SD: 4.89671 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	200131R1_1	0.250	0.83	NO	25 74	1.001	2.87e3	1 21e6	0 239	-43	0.945	bb
2	200131R1_2	0.500	0 77	NO	25.69	1 001	7.22e3	1.37e6	0 532	6.5	1.05	bb
3	200131R1_3	2.00	0.80	NO	25.70	1.001	3.00e4	1.44e6	2 11	57	1.04	bb
4	200131R1_4	10.0	0.78	NO	25.70	1.001	1.39e5	1 42e6	9 92	-0 8	0.980	db
5	200131R1_5	40.0	0.77	NO	25.69	1 001	5 51e5	1.45e6	38.3	-4.2	0.946	bb
6	200131R1_6	300	0.78	NO	25.70	1.001	5.05e6	1.75e6	291	-2.9	0.960	bb

Compound name: 1,2,3,7,8-PeCDD Response Factor: 0.972284 RRF SD: 0.054098, Relative SD: 5.56402 Response type: Internal Std (Ref 19), Area \* (IS Conc. / IS Area) Curve type: RF

17351	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	0.57	NO	30.67	1.000	1.12e4	9.52e5	1.21	-3.0	0.943	bb
2	200131R1_2	2.50	0.60	NO	30.64	1.001	2.75e4	1.05e6	2.70	7.9	1.05	bb
3	200131R1_3	10.0	0.63	NO	30.64	1.000	1.18e5	1.14e6	10.6	6.4	1.03	bb
4	200131R1_4	50.0	0.63	NO	30.64	1.000	5.09e5	1.09e6	48.2	-3.7	0.936	bb
5	200131R1_5	200	0.63	NO	30.62	1.000	2.30e6	1.23e6	192	-4.2	0.931	bb
6	200131R1_6	1500	0.63	NO	30.64	1.000	2.16e7	1.53e6	1450	-3.4	0.940	bb

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

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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#### Compound name: 1,2,3,4,7,8-HxCDD Response Factor: 1.07079

RRF SD: 0.0439702, Relative SD: 4.10634 Response type: Internal Std (Ref 20), Area \* (IS Conc. / IS Area) Curve type: RF

100.000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.18	NO	34.01	1.001	9.84e3	7.72e5	1.19	-4.8	1.02	MM
2	200131R1_2	2.50	1.28	NO	33.98	1.001	2 47e4	8.79e5	2.62	4.9	1.12	bd
3	200131R1_3	10.0	1 23	NO	33 98	1.000	1.09e5	9.69e5	10.5	5.2	1.13	bd
4	200131R1_4	50 0	1.22	NO	33.99	1.000	4.82e5	9.08e5	49.6	-0.8	1.06	bd
5	200131R1_5	200	1.27	NO	33.97	1.000	2.18e6	1.04e6	195	-2.7	1.04	bd
6	200131R1_6	1500	1.21	NO	33 99	1.000	2.05e7	1 30e6	1470	-1.8	1.05	bd

Compound name: 1,2,3,6,7,8-HxCDD Response Factor: 0.921124 RRF SD: 0.0705821, Relative SD: 7.66261 Response type: Internal Std ( Ref 21 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.14	NO	34.10	1.000	1.01e4	9.31e5	1.18	-5.8	0.868	MM
2	200131R1_2	2.50	1.28	NO	34.08	1.001	2.68e4	1.05e6	2.78	11.2	1.02	db
3	200131R1_3	10.0	1.21	NO	34.08	1.000	1.13e5	1.13e6	10.8	8.3	0.998	db
4	200131R1_4	50.0	1.22	NO	34.09	1.001	4.87e5	1.11e6	47.7	-4.7	0.878	db
5	200131R1_5	200	1.17	NO	34.07	1.000	2.21e6	1.24e6	193	-3.4	0.890	db
6	200131R1_6	1500	1.22	NO	34.09	1.001	2.03e7	1.56e6	1410	-5.7	0.868	db

Compound name: 1,2,3,7,8,9-HxCDD Response Factor: 0.9182 RRF SD: 0.0596016, Relative SD: 6.49114 Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.36	NO	34.38	1.000	9.78e3	9.08e5	1.17	-6.1	0.862	MM
2	200131R1_2	2.50	1.21	NO	34.35	1.000	2.43e4	9.77e5	2.71	8.3	0.995	bb

#### Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	10.0	1.18	NO	34.36	1.000	1.03e5	1.04e6	10.8	8.0	0.991	bb
4	200131R1_4	50.0	1.22	NO	34.37	1.001	4.43e5	1.02e6	47.4	-53	0.870	bb
5	200131R1_5	200	1.22	NO	34.35	1 001	2.05e6	1.15e6	195	-27	0.893	bb
6	200131R1_6	1500	1.22	NO	34.37	1.001	1.94e7	1.44e6	1470	-2.2	0.898	bb

Compound name: 1,2,3,4,6,7,8-HpCDD Response Factor: 0.923064 RRF SD: 0.0512135, Relative SD: 5.54821 Response type: Internal Std ( Ref 23 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

0.954	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.04	NO	37 92	1 000	8.20e3	7.05e5	1.26	0.7	0.930	bb
2	200131R1_2	2.50	1.06	NO	37 88	1.000	1.88e4	7.60e5	2.69	74	0.991	bb
3	200131R1_3	10.0	1.02	NO	37.90	1 001	7.44e4	7 62e5	10.6	5.8	0 976	bb
4	200131R1_4	50.0	1.01	NO	37.90	1 000	3.45e5	7 83e5	47.7	-4.7	0.880	bb
5	200131R1_5	200	1.00	NO	37.88	1.000	1.57e6	8.87e5	192	-4.0	0.886	bb
6	200131R1_6	1500	1.01	NO	37.91	1.001	1.45e7	1.10e6	1420	-5.2	0.875	bb

Compound name: OCDD Response Factor: 0.974578 RRF SD: 0.0610366, Relative SD: 6.26287 Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

2.5-50	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	2.50	0.90	NO	40.92	1.000	1.61e4	1.29e6	2.55	2.2	0.996	bđ
2	200131R1_2	5.00	0.89	NO	40.90	1.000	3.84e4	1.46e6	5.41	8.2	1.05	bd
3	200131R1_3	20.0	0.88	NO	40.90	1.000	1.46e5	1.41e6	21.2	5.9	1.03	bd
4	200131R1_4	100	0.86	NO	40.90	1.000	6.76 <b>e</b> 5	1.48e6	93.7	-6.3	0.914	MM
5	200131R1_5	400	0.87	NO	40.90	1.000	3.13e6	1.69e6	379	-5.2	0.924	bb
6	200131R1_6	3000	0.83	NO	40.92	1.000	2.97e7	2.14e6	2850	-4.8	0.927	bb

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

Dataset:	U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld
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Last Altered:	Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
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Compound name: 2,3,7,8-TCDF Response Factor: 0.801975 RRF SD: 0.0524877, Relative SD: 6.54481 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	200131R1_1	0 250	0.73	NO	24 85	1.001	3.48e3	1.69e6	0.257	2.8	0.824	bb
2	200131R1_2	0.500	0.74	NO	24.82	1.001	8.24e3	1.87e6	0.549	9.9	0.881	bb
3	200131R1_3	2 00	0.71	NO	24.82	1 001	3 25e4	1.95e6	2.08	4.0	0.834	bb
4	200131R1_4	10.0	0.73	NO	24.82	1 001	1.47e5	1.92e6	9.50	-5 0	0 762	bb
5	200131R1_5	40 0	0 74	NO	24.81	1 00 1	5.87e5	1.96e6	37.3	-6.7	0 748	bb
6	200131R1_6	300	0.74	NO	24.82	1 00 1	5.37e6	2.35e6	285	-4.9	0.763	bb

Compound name: 1,2,3,7,8-PeCDF Response Factor: 0.907368 RRF SD: 0.0556686, Relative SD: 6.13518 Response type: Internal Std ( Ref 26 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	1S Resp	Conc.	%Dev	RRF	X = dropped
1.000	200131R1_1	1.25	1.54	NO	29.39	1 000	1.54e4	1.46e6	1.16	-7.1	0.843	MM
2	200131R1_2	2.50	1.49	NO	29.35	1.000	4.02e4	1.66e6	2.66	6.5	0.967	bb
3	200131R1_3	10.0	1.55	NO	29.35	1.000	1.82 <b>e</b> 5	1.85e6	10.8	8.5	0.984	bb
4	200131R1_4	50.0	1.54	NO	29.37	1.000	7.66e5	1.72e6	49.2	-1.7	0.892	bb
5	200131R1_5	200	1.53	NO	29.34	1.000	3.44e6	1.96e6	193	-3.5	0.875	bb
6	200131R1_6	1500	1.52	NO	29.37	1.000	3.24e7	2.45e6	1460	-2.7	0.883	bb

Compound name: 2,3,4,7,8-PeCDF Response Factor: 0.951581 RRF SD: 0.0710528, Relative SD: 7.46682 Response type: Internal Std ( Ref 27 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.39	NO	30.36	1.000	1.52e4	1.40e6	1.14	-9.0	0.866	bb
2	200131R1_2	2.50	1.49	NO	30.33	1.000	4.18e4	1.60e6	2.74	9.7	1.04	bb

#### Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.gld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

1072	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	10.0	1.52	NO	30.33	1.000	1.83e5	1.77e6	10.9	8.5	1.03	bb
4	200131R1_4	50.0	1.52	NO	30.33	1.000	7.42e5	1.63e6	48.0	-4.1	0.913	bb
5	200131R1_5	200	1.52	NO	30.32	1.000	3.55e6	1.92e6	195	-2.7	0.926	bb
6	200131R1_6	1500	1.53	NO	30.33	1.000	3.27e7	2.35e6	1460	-2.5	0.928	bb

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

Response Factor: 0.862294 RRF SD: 0.0432122, Relative SD: 5.0113 Response type: Internal Std ( Ref 28 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

<b>R</b> 101 (2)	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.16	NO	33 13	1.000	1 04e4	9.82e5	1.22	-2.1	0.844	MM
2	200131R1_2	2.50	1.16	NO	33.10	1.000	2 37e4	1 03e6	2.66	6.4	0.917	bd
3	200131R1_3	10.0	1.18	NO	33.11	1.000	1.05e5	1 14e6	10.6	6.5	0.918	bd
4	200131R1_4	50.0	1.16	NO	33.13	1 000	4 53e5	1 09e6	48 4	-3.3	0.834	dd
5	200131R1_5	200	1 16	NO	33.10	1 00 1	2.04e6	1.23e6	192	-4.1	0.827	bd
6	200131R1_6	1500	1.16	NO	33.12	1.000	1.94e7	1.55e6	1450	-3.4	0.833	bd

#### Compound name: 1,2,3,6,7,8-HxCDF Response Factor: 0.841382 RRF SD: 0.0466581, Relative SD: 5.54541 Response type: Internal Std ( Ref 29 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

The state	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.21	NO	33.26	1.001	1.06e4	1.07e6	1.17	-6.2	0.789	MM
2	200131R1_2	2.50	1.19	NO	33.23	1.001	2.67e4	1.18e6	2.69	7.5	0.904	MM
3	200131R1_3	10.0	1.15	NO	33.24	1.001	1.15e5	1.29e6	10.6	6.3	0.894	db
4	200131R1_4	50.0	1.16	NO	33.24	1.000	5.01e5	1.23e6	48.3	-3.3	0.813	db
5	200131R1_5	200	1.15	NO	33.22	1.000	2.41e6	1.46e6	196	-1.9	0.825	đb
6	200131R1_6	1500	1.16	NO	33.24	1.000	2.16e7	1.75e6	1470	-2.3	0.822	db

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

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.gld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 2,3,4,6,7,8-HxCDF Response Factor: 0.898194 RRF SD: 0.0533025, Relative SD: 5.9344 Response type: Internal Std ( Ref 30 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

100	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.07	NO	33.84	1.000	1.01e4	9.62e5	1.17	-6.1	0.844	bb
2	200131R1_2	2.50	1.21	NO	33.81	1.000	2.55e4	1 06e6	2 67	6.7	0.958	bb
3	200131R1_3	10.0	1.14	NO	33.82	1.001	1 <b>14e</b> 5	1.17e6	10.8	8.3	0.972	bb
4	200131R1_4	50.0	1.16	NO	33.82	1.000	4.82e5	1.11e6	48 4	-3.3	0.869	bb
5	200131R1_5	200	1.17	NO	33.80	1.000	2.21e6	1 27 <b>e6</b>	194	-2.8	0.873	bb
6	200131R1_6	1500	1.17	NO	33 82	1.000	2.08e7	1.59e6	1460	-2.8	0.873	bb

Compound name: 1,2,3,7,8,9-HxCDF Response Factor: 0.857779 RRF SD: 0.0530165, Relative SD: 6.18067 Response type: Internal Std ( Ref 31 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

135.8.0	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	1.12	NO	34.74	1.000	9.51e3	8.96e5	1.24	-1.0	0.849	bb
2	200131R1_2	2.50	1.18	NO	34.71	1.000	2.15e4	9.11e5	2.76	10.2	0.946	bb
3	200131R1_3	10.0	1,17	NO	34.72	1.001	8.71e4	9.71e5	10.5	4.6	0.897	MM
4	200131R1_4	50.0	1.15	NO	34.72	1.000	3.90e5	9.57e5	47.6	-4.9	0.816	bb
5	200131R1_5	200	1 16	NO	34.70	1.000	1.74e6	1.06e6	191	-4 6	0.818	bb
6	200131R1_6	1500	1.17	NO	34.72	1.000	1.68e7	1.37e6	1430	-4.4	0.820	bb

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

Response Factor: 0.851072 RRF SD: 0.0458765, Relative SD: 5.39044 Response type: Internal Std ( Ref 32 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1 20 -	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	0.94	NO	36.48	1.000	7.60e3	7.37e5	1.21	-3.0	0.826	bb
2	200131R1_2	2.50	0.99	NO	36.47	1.001	1.79 <b>e4</b>	7.82e5	2.70	7.9	0.918	bd

#### Dataset: U;\VG12.PRO\Results\200131R1\200131R1-CRV.gld

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	10.0	0.96	NO	36.46	1.000	7.21e4	8.00e5	10.6	5.9	0.901	bď
4	200131R1_4	50.0	0.96	NO	36.47	1.001	3.29e5	8.01e5	48.2	-3.5	0.821	bb
5	200131R1_5	200	0.97	NO	36.45	1.000	1.46e6	8.88e5	193	-3.4	0.822	bb
6	200131R1_6	1500	0.96	NO	36.47	1.000	1.37e7	1.12e6	1440	-3.9	0 818	bb

Compound name: 1,2,3,4,7,8,9-HpCDF Response Factor: 0.979894 RRF SD: 0.0488516, Relative SD: 4.9854 Response type: Internal Std ( Ref 33 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

A GSV N	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	1.25	0.96	NO	38.50	1.000	5.89e3	5.04e5	1 19	-4.7	0.934	MM
2	200131R1_2	2.50	0.97	NO	38 48	1 000	1 47e4	5.63e5	2.66	6.4	1.04	bb
3	200131R1_3	10.0	0.96	NO	38.49	1.000	5.91e4	5.68e5	10.6	6.2	1 04	bb
4	200131R1_4	50.0	0.97	NO	38.50	1.000	2.74e5	5.80e5	48.2	-3.6	0.945	bb
5	200131R1_5	200	0.96	NO	38 48	1.000	1.25e6	6.58e5	194	-2.9	0.952	bb
6	200131R1_6	1500	0.96	NO	38 50	1.000	1.20e7	8.31e5	1480	-1.5	0.966	bb

Compound name: OCDF Response Factor: 0.805548 RRF SD: 0.0471476, Relative SD: 5.85286 Response type: Internal Std ( Ref 34 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	2.50	0.85	NO	41.10	1.000	1.39e4	1.44e6	2.40	-4.0	0.773	bb
2	200131R1_2	5.00	0.87	NO	41.08	1.000	3.50e4	1.59e6	5.46	9.2	0.880	bb
3	200131R1_3	20.0	0.87	NO	41.09	1.000	1.37e5	1.61e6	21.1	5.5	0.850	MM
4	200131R1_4	100	0.85	NO	41.10	1.000	6.45e5	1.67e6	95.6	-4.4	0.770	bb
5	200131R1_5	400	0.86	NO	41.09	1.000	2.92e6	1.87e6	388	-3.1	0.781	bb
6	200131R1_6	3000	0.86	NO	41.10	1.000	2.81e7	2.40e6	2900	-3.3	0.779	bb

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Compound name: 13C-2,3,7,8-TCDD Response Factor: 1.19852 RRF SD: 0.0939444, Relative SD: 7.83835 Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

W.e.vii	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.79	NO	25.72	1.026	1.21e6	9.30e5	109	9.0	1.31	bb
2	200131R1_2	100	0.79	NO	25.67	1.026	1.37e6	1.27e6	90.2	-9.8	1.08	bb
3	200131R1_3	100	0.79	NO	25.67	1.026	1.44e6	1.31e6	91.3	-8.7	1.09	bb
4	200131R1_4	100	0.79	NO	25.67	1.026	1 42e6	1.19e6	99.9	-0.1	1.20	bb
5	200131R1_5	100	0.80	NO	25.66	1 026	1 45e6	1.18e6	103	2.7	1 23	dd
6	200131R1_6	100	0.78	NO	25.69	1 026	1 75e6	1.37e6	107	6.9	1.28	bb

Compound name: 13C-1,2,3,7,8-PeCDD Response Factor: 0.966657 RRF SD: 0.113301, Relative SD: 11.7209 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	200131R1_1	100	0.64	NO	30.65	1.222	9.52e5	9.30e5	106	5.9	1.02	bb
2	200131R1_2	100	0.63	NO	30.61	1.223	1.05e6	1.27e6	85.4	-14.6	0.826	bb
3	200131R1_3	100	0.64	NO	30.62	1.223	1.14e6	1.31e6	90.0	-10.0	0.870	bb
4	200131R1_4	100	0.65	NO	30.62	1.223	1.09e6	1.19e6	95.0	-5.0	0.918	bb
5	200131R1_5	100	0.64	NO	30.61	1.223	1.23e6	1.18e6	108	7.9	1.04	bb
6	200131R1_6	100	0.64	NO	30.62	1.223	1.53e6	1.37e6	116	15.8	1.12	bb

#### Compound name: 13C-1,2,3,4,7,8-HxCDD Response Factor: 0.873915

RRF SD: 0.0797425, Relative SD: 9.12474 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	200131R1_1	100	1.26	NO	33.99	1.014	7.72e5	8.41e5	105	5.1	0.918	bd
2	200131R1_2	100	1.27	NO	33.96	1.014	8.79e5	1.13e6	89.1	-10.9	0.778	bd

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

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

12.54	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	100	1.28	NO	33.97	1.014	9.69e5	1.23e6	90.5	-9.5	0.791	bd
4	200131R1_4	100	1.26	NO	33.98	1.014	9.08e5	1 05e6	98.8	-12	0.863	bd
5	200131R1_5	100	1.27	NO	33.96	1.014	1 04e6	1.15e6	104	38	0.907	bd
6	200131R1_6	100	1.28	NO	33.98	1.014	1.30e6	1.32e6	113	12.8	0.986	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD Response Factor: 1.04579 RRF SD: 0.10317, Relative SD: 9.86527 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	200131R1_1	100	1 24	NO	34.09	1.017	9 31e5	8.41e5	106	5.9	1.11	db
2	200131R1_2	100	1.25	NO	34.06	1.017	1 05e6	1.13e6	88.6	-11.4	0 927	db
3	200131R1_3	100	1.25	NO	34.07	1.017	1.13e6	1 23e6	88.2	-11.8	0.923	db
4	200131R1_4	100	1 25	NO	34.07	1.017	1 11e6	1.05 <b>e</b> 6	101	0.9	1.05	db
5	200131R1_5	100	1.26	NO	34.06	1.017	1.24e6	1.15e6	103	33	1.08	db
6	200131R1_6	100	1.27	NO	34.07	1.017	1.56e6	1.32e6	113	13.1	1.18	db

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

Response Factor: 0.974375 RRF SD: 0.10254, Relative SD: 10.5236 Response type: Internal Std ( Ref 38 ), 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	200131R1_1	100	1.26	NO	34.37	1.025	9.08e5	8.41e5	111	10.8	1.08	bb
2	200131R1_2	100	1.24	NO	34.34	1.025	9.77e5	1.13e6	88.8	-11.2	0.865	bb
3	200131R1_3	100	1.23	NO	34.35	1.025	1.04e6	1.23e6	87.1	-12.9	0.848	bb
4	200131R1_4	100	1.26	NO	34.35	1.025	1.02e6	1.05e6	99.4	-0.6	0.968	bb
5	200131R1_5	100	1.22	NO	34.33	1.025	1.15e6	1.15e6	102	2.1	0.995	bb
6	200131R1_6	100	1.27	NO	34.35	1.025	1.44e6	1.32e6	112	11.8	1.09	bb

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

Response Factor: 0.747228 RRF SD: 0.0868418, Relative SD: 11.6219 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

124	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.04	NO	37.91	1.131	7 05e5	8.41e5	112	12.3	0.839	bb
2	200131R1_2	100	1 03	NO	37.88	1 131	7.60e5	1.13e6	90.0	-10 0	0 673	bb
3	200131R1_3	100	1.05	NO	37.88	1.131	7 62e5	1.23e6	83.2	-16.8	0.622	bb
4	200131R1_4	100	1.05	NO	37.88	1.131	7.83e5	1.05e6	99.7	-0.3	0.745	bb
5	200131R1_5	100	1 05	NO	37.88	1.131	8.87e5	1.15e6	103	3.2	0.771	bb
6	200131R1_6	100	1 03	NO	37.88	1.131	1.10e6	1.32e6	112	11.6	0 834	bb

#### Compound name: 13C-OCDD Response Factor: 0.706533 RRF SD: 0.0850665, Relative SD: 12.04 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

12453	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	200	0.89	NO	40.90	1.220	1.29e6	8.41e5	218	89	0.770	bb
2	200131R1_2	200	0.92	NO	40.88	1.221	1 46e6	1.13e6	183	-8.6	0.646	bđ
3	200131R1_3	200	0.90	NO	40.89	1.221	1.41e6	1.23e6	163	-18.5	0.575	bb
4	200131R1_4	200	0.90	NO	40.90	1.221	1.48e6	1.05e6	199	-0.4	0.704	bb
5	200131R1_5	200	0.86	NO	40.89	1.221	1.69e6	1.15e6	208	4.0	0.735	bb
6	200131R1_6	200	0.84	NO	40.90	1.221	2.14e6	1.32e6	229	14.6	0.809	bb

Compound name: 13C-2,3,7,8-TCDF Response Factor: 1.06529 RRF SD: 0.0915828, Relative SD: 8.59701 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

E	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.77	NO	24.84	0.990	1.69e6	1.42e6	112	11.8	1.19	bb
2	200131R1_2	100	0.78	NO	24.79	0.990	1.87e6	1.95e6	89.9	-10.1	0.958	bb

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	100	0.76	NO	24.79	0.990	1.95e6	2.03e6	90.3	-9.7	0.962	bb
4	200131R1_4	100	0.77	NO	24.79	0.990	1.92e6	1.80e6	100	0.3	1.07	bb
5	200131R1_5	100	0.77	NO	24.78	0.990	1.96e6	1.80e6	103	2.6	1.09	bb
6	200131R1_6	100	0.77	NO	24.81	0.990	2.35e6	2.10e6	105	5.1	1.12	bb

Compound name: 13C-1,2,3,7,8-PeCDF Response Factor: 1.00172 RRF SD: 0.117905, Relative SD: 11.7703 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

15115	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.57	NO	29.37	1.171	1.46e6	1.42e6	103	3.0	1.03	bb
2	200131R1_2	100	1.56	NO	29.34	1.172	1 66e6	1 95e6	84.9	-15.1	0.851	bb
3	200131R1_3	100	1.61	NO	29.34	1.172	1.85e6	2.03e6	91.2	-8.8	0 914	bb
4	200131R1_4	100	1.59	NO	29.35	1.173	1.72e6	1 80e6	95 2	-4.8	0.953	bb
5	200131R1_5	100	1.60	NO	29.32	1.172	1 96e6	1 80e6	109	9.1	1.09	bb
6	200131R1_6	100	1.59	NO	29.35	1.172	2.45e6	2.10e6	117	16.5	1.17	bb

Compound name: 13C-2,3,4,7,8-PeCDF Response Factor: 0.961692 RRF SD: 0.117094, Relative SD: 12.1758 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1213	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	1.59	NO	30.35	1.210	1.40e6	1.42e6	103	2.7	0.988	db
2	200131R1_2	100	1.59	NO	30.32	1.211	1.60e6	1.95e6	85.2	-14.8	0.820	db
3	200131R1_3	100	1.56	NO	30.32	1.211	1.77e6	2.03e6	90.8	-9.2	0.873	bb
4	200131R1_4	100	1.61	NO	30.32	1.211	1.63e6	1.80e6	93.8	-6.2	0.902	db
5	200131R1_5	100	1.59	NO	30.30	1.211	1.92e6	1.80e6	111	10.9	1.07	db
6	200131R1_6	100	1.62	NO	30.33	1.211	2.35e6	2.10e6	117	16.5	1.12	db

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Compound name: 13C-1,2,3,4,7,8-HxCDF Response Factor: 1.0492 RRF SD: 0.111678, Relative SD: 10.6441 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	200131R1_1	100	0.51	NO	33.13	0 988	9.82e5	8.41e5	111	11.3	1.17	bd
2	200131R1_2	100	0.50	NO	33.09	0.988	1 03e6	1.13e6	87.3	-12.7	0.915	bd
3	200131R1_3	100	0.51	NO	33.10	0 988	1 14e6	1 23e6	88.8	-11.2	0.932	bd
4	200131R1_4	100	0 50	NO	33.11	0 988	1 09e6	1 05e6	98.5	-1.5	1.03	bd
5	200131R1_5	100	0.51	NO	33.08	0.988	1.23e6	1 15e6	102	2.0	1.07	bd
6	200131R1_6	100	0.50	NO	33.11	0.989	1 55e6	1 32e6	112	1 <b>2</b> .1	1.18	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF Response Factor: 1.18988 RRF SD: 0.120357, Relative SD: 10.1151 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

100	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.24	0.992	1.07e6	8.41e5	107	7.4	1.28	db
2	200131R1_2	100	0.50	NO	33.21	0.992	1.18e6	1.13e6	88.0	-12.0	1.05	db
3	200131R1_3	100	0.51	NO	33.22	0.992	1.29e6	1.23e6	88.2	-11.8	1.05	db
4	200131R1_4	100	0.51	NO	33.23	0.992	1.23e6	1.05e6	98.5	-1.5	1.17	db
5	200131R1_5	100	0.51	NO	33.21	0.992	1.46e6	1.15e6	107	6.7	1.27	db
6	200131R1_6	100	0.51	NO	33.23	0.992	1.75e6	1.32e6	111	11.2	1.32	db

Compound name: 13C-2,3,4,6,7,8-HxCDF Response Factor: 1.06623 RRF SD: 0.103589, Relative SD: 9.71549 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.83	1.009	9.62e5	8.41e5	107	7.2	1.14	bb
2	200131R1_2	100	0.50	NO	33.80	1.009	1.06e6	1.13e6	88.4	-11.6	0.943	bb

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

1.152	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	100	0.51	NO	33.79	1.009	1.17e6	1.23e6	89.3	-10.7	0.953	bb
4	200131R1_4	100	0.51	NO	33.81	1.009	1.11e6	1 05e6	99.0	-1.0	1.06	bb
5	200131R1_5	100	0.51	NO	33.78	1.009	1.27e6	1 15e6	103	3.4	1.10	bb
6	200131R1_6	100	0 50	NO	33.81	1.009	1 59e6	1.32e6	113	12.6	1.20	bb

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

Response Factor: 0.922357 RRF SD: 0.112781, Relative SD: 12.2275 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	200131R1_1	100	0.52	NO	34.73	1.036	8.96e5	8.41e5	115	15.5	1.07	bd
2	200131R1_2	100	0.50	NO	34.70	1 036	9.11e5	1.13e6	87 5	-12.5	0 807	bb
3	200131R1_3	100	0.50	NO	34 70	1.036	9.71e5	1.23e6	85.9	-14.1	0 793	bb
4	200131R1_4	100	0 51	NO	34.71	1 036	9.57e5	1.05e6	98.7	-1.3	0 9 1 0	bb
5	200131R1_5	100	0.50	NO	34.69	1.036	1.06e6	1.15e6	100	0.1	0.923	bb
6	200131R1_6	100	0.52	NO	34.71	1.036	1.37e6	1.32e6	112	12.3	1.04	bb

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

Response Factor: 0.767165 RRF SD: 0.0861255, Relative SD: 11.2265 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.44	NO	36.47	1.088	7.37e5	8.41e5	114	14.2	0.876	bb
2	200131R1_2	100	0.43	NO	36.44	1.088	7.82e5	1.13e6	90.2	-9.8	0.692	bb
3	200131R1_3	100	0.42	NO	36.45	1.088	8.00e5	1.23e6	85.1	-14.9	0.653	bb
4	200131R1_4	100	0.43	NO	36.45	1.088	8.01e5	1.05e6	99.3	-0.7	0.762	bb
5	200131R1_5	100	0.44	NO	36.44	1.088	8.88e5	1.15e6	101	0.6	0.772	bb
6	200131R1_6	100	0.44	NO	36.46	1.088	1.12e6	1.32e6	111	10.6	0.848	bb

Dataset:	U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld
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Last Altered:	Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
Printed:	Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

#### Compound name: 13C-1,2,3,4,7,8,9-HpCDF Response Factor: 0.552323

RRF SD: 0.0621028, Relative SD: 11.2439 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

Cert	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.44	NO	38.50	1.149	5.04e5	8.41e5	109	8.5	0.600	MM
2	200131R1_2	100	0.43	NO	38.47	1.149	5.63e5	1.13e6	90.3	-97	0.499	bb
3	200131R1_3	100	0.44	NO	38.48	1.149	5.68e5	1.23e6	83.9	-16.1	0.464	bb
4	200131R1_4	100	0.43	NO	38.48	1.148	5.80e5	1.05e6	99.8	-0.2	0.551	bb
5	200131R1_5	100	0 43	NO	38 47	1.149	6.58e5	1.15e6	104	3.6	0.572	bb
6	200131R1_6	100	0.43	NO	38.49	1.149	8.31e5	1.32e6	114	13.9	0.629	bb

#### Compound name: 13C-OCDF Response Factor: 0.78941 RRF SD: 0.0937006, Relative SD: 11.8697 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	200131R1_1	200	0.88	NO	41.10	1.226	1.44e6	8.41e5	217	8.5	0.856	bb
2	200131R1_2	200	0.86	NO	41.07	1.226	1.59e6	1.13e6	178	-10.8	0.704	bb
3	200131R1_3	200	0.84	NO	41.08	1.226	1.61e6	1.23e6	167	-16.6	0.658	bb
4	200131R1_4	200	0.87	NO	41.08	1.226	1.67e6	1.05e6	202	0.8	0.796	bb
5	200131R1_5	200	0.86	NO	41.07	1,227	1.87e6	1.15e6	206	2.8	0.812	bb
6	200131R1_6	200	0.87	NO	41.09	1.227	2.40e6	1.32e6	230	15.2	0.910	bb

#### Compound name: 37CI-2,3,7,8-TCDD Response Factor: 1.17626 RRF SD: 0.0677436, Relative SD: 5.75926 Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

al. IN	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	0.250			25.74	1.026	2.61e3	9.30e5	0.239	-4.6	1.12	bb
2	200131R1_2	0.500			25.70	1.027	7.49e3	1.27e6	0.502	0.3	1.18	bb

#### Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

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

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	2.00			25.70	1.027	2.85e4	1.31e6	1.85	-7.7	1.09	bb
4	200131R1_4	10.0			25.70	1.027	1.40e5	1.19e6	10.0	0.4	1.18	bb
5	200131R1_5	40.0			25.69	1.027	5.71e5	1.18e6	41.0	2.6	1.21	bb
6	200131R1_6	200			25.70	1.026	3.51e6	1.37e6	218	8.9	1.28	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

5317	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.78	NO	25.08	1.000	9.30e5	9.30e5	100	0.0	1.00	bb
2	200131R1_2	100	0.80	NO	25.03	1.000	1 27e6	1.27e6	100	0.0	1 00	bb
3	200131R1_3	100	0.80	NO	25.03	1.000	1 31e6	1 31e6	100	0.0	1.00	bb
4	200131R1_4	100	0.80	NO	25.03	1.000	1 19e6	1.19e6	100	0.0	1 00	bb
5	200131R1_5	100	0.80	NO	25.02	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
6	200131R1_6	100	0.80	NO	25.05	1.000	1.37e6	1.37e6	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

C (C = C + C + C + C + C + C + C + C + C +	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.79	NO	23.42	1.000	1.42e6	1.42e6	100	0.0	1.00	bd
2	200131R1_2	100	0.79	NO	23.35	1.000	1.95e6	1.95e6	100	0.0	1.00	bb
3	200131R1_3	100	0.79	NO	23.37	1.000	2.03e6	2.03e6	100	0.0	1.00	bb
4	200131R1_4	100	0.79	NO	23.37	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	23.35	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
6	200131R1_6	100	0.79	NO	23.39	1.000	2.10e6	2.10e6	100	0.0	1.00	bb

#### Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard 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

1200	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200131R1_1	100	0.51	NO	33.52	1.000	8 41e5	8.41e5	100	0.0	1.00	bb
2	200131R1_2	100	0 51	NO	33.49	1 000	1.13e6	1.13e6	100	0.0	1.00	bb
3	200131R1_3	100	0.51	NO	33.50	1.000	1.23e6	1.23e6	100	0.0	1.00	bb
4	200131R1_4	100	0 51	NO	33 51	1.000	1.05e6	1 05e6	100	0 0	1.00	bb
5	200131R1_5	100	0 51	NO	33.49	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
6	200131R1_6	100	0.51	NO	33.50	1.000	1.32e6	1.32e6	100	0.0	1.00	bb

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

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:48 AM Pacific Standard Time Printed: Sunday, February 02, 2020 11:18:51 AM Pacific Standard Time

#### Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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

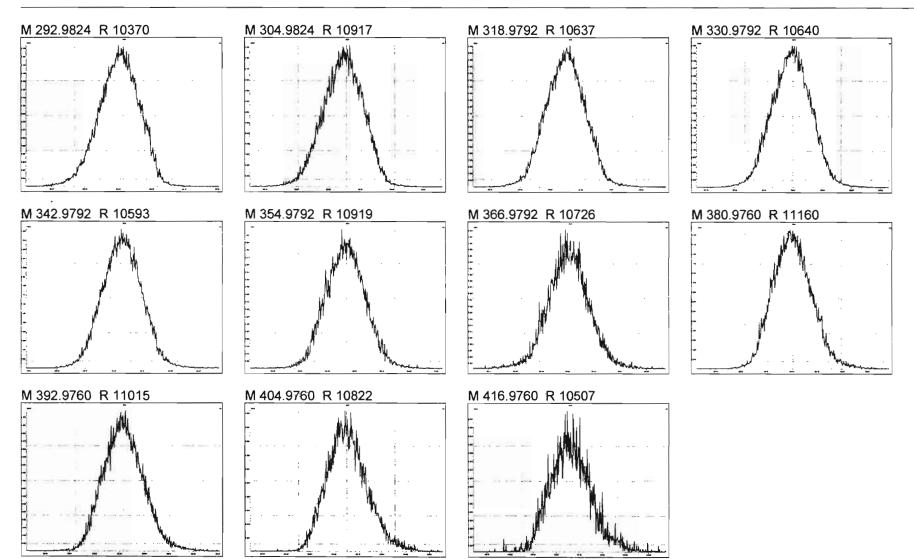
1.1	Name	ID	Acq.Date	Acq.Time
1	200131R1_1	ST200131R1_1 1613 CS0 19L2302	31-Jan-20	16:48:41
2	200131R1_2	ST200131R1_2 1613 CS1 19L2303	31-Jan-20	17:37:04
3	200131R1_3	ST200131R1_3 1613 CS2 19L2304	31-Jan-20	18:23:19
4	200131R1_4	ST200131R1_4 1613 CS3 19L2305	31-Jan-20	19:10:18
5	200131R1_5	ST200131R1_5 1613 CS4 19L2306	31-Jan-20	19:57:17
6	200131R1_6	ST200131R1_6 1613 CS5 19L2307	31-Jan-20	20:44:23
7	200131R1_7	SOLVENT BLANK	31-Jan-20	21:31:31
8	200131R1_8	SS200131R1_1 1613 SSS 19L2308	31-Jan-20	22:18:30
9	200131R1_9	ST200131R1_7 1613 CS3 19I1604	31-Jan-20	23:05:36
10	200131R1_10	B0A0133-BS1 OPR 1	31-Jan-20	23:52:35
11	200131R1_11	B0A0226-BS1 OPR 10	01-Feb-20	00:39:35
12	200131R1_12	SOLVENT BLANK	01-Feb-20	01:26:32
13	200131R1_13	B0A0133-BLK1 Method Blank 1	01-Feb-20	02:13:32
14	200131R1_14	B0A0226-BLK1 Method Blank 10	01-Feb-20	03:00:32
15	200131R1_15	1904161-10RE1 PDI-046SC-A-02-03-191001	01-Feb-20	03:47:38
16	200131R1_16	1904161-16RE1 PDI-066SC-A-06-07-191011	01-Feb-20	04:34:37
17	200131R1_17	1904207-04RE1 PDI-076SC-A-05-06-191013	01-Feb-20	05:21:38
18	200131R1_18	1903647-05@2X PDI-067SC-B-06-08-191010	01-Feb-20	06:08:35
19	200131R1_19	1903647-02@10X PDI-067SC-B-00-02-19101	01-Feb-20	06:55:34

### MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Friday, January 31, 2020 16:41:39 Pacific Standard Time

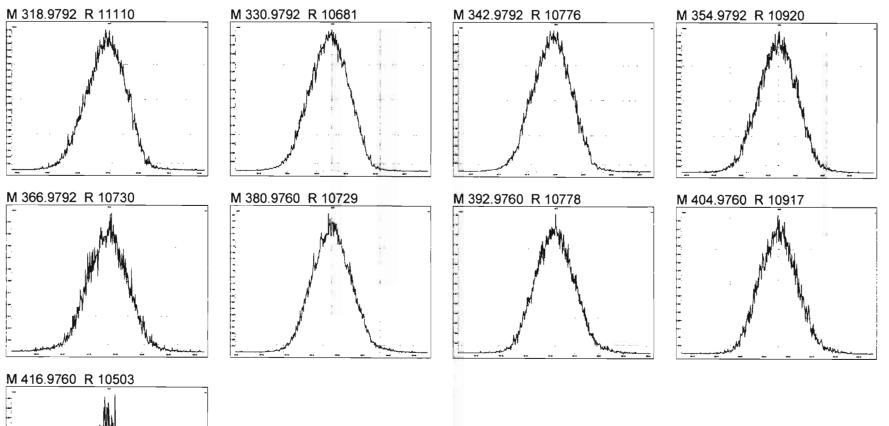


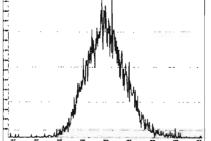
### MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Friday, January 31, 2020 16:42:23 Pacific Standard Time



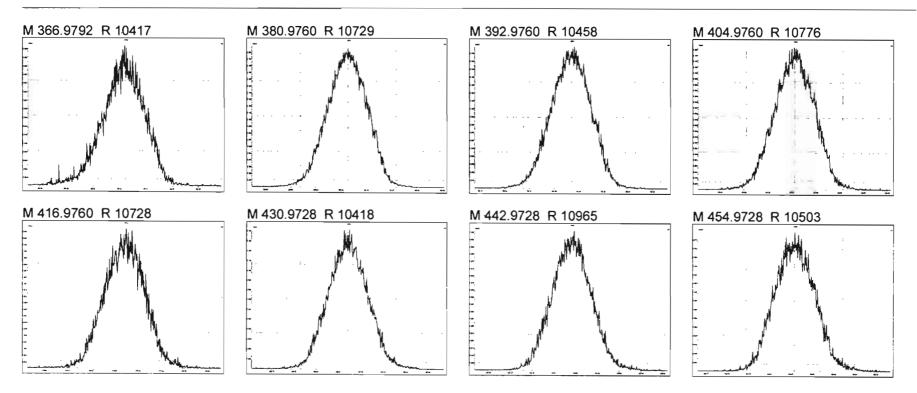


## MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Friday, January 31, 2020 16:43:30 Pacific Standard Time

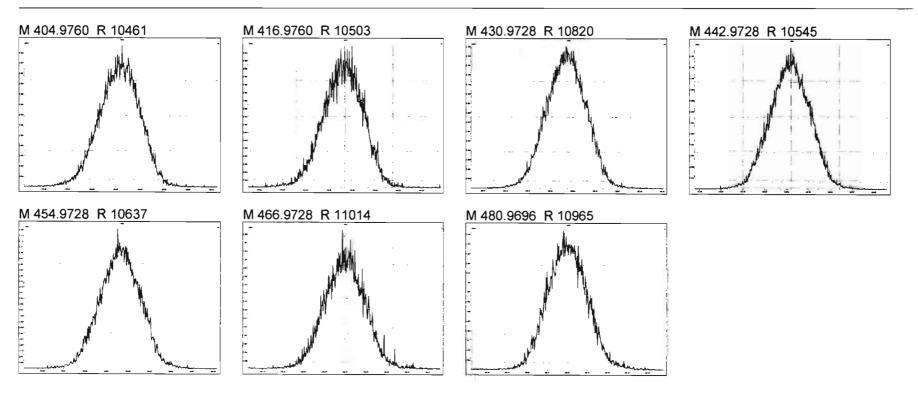


## MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Friday, January 31, 2020 16:44:27 Pacific Standard Time



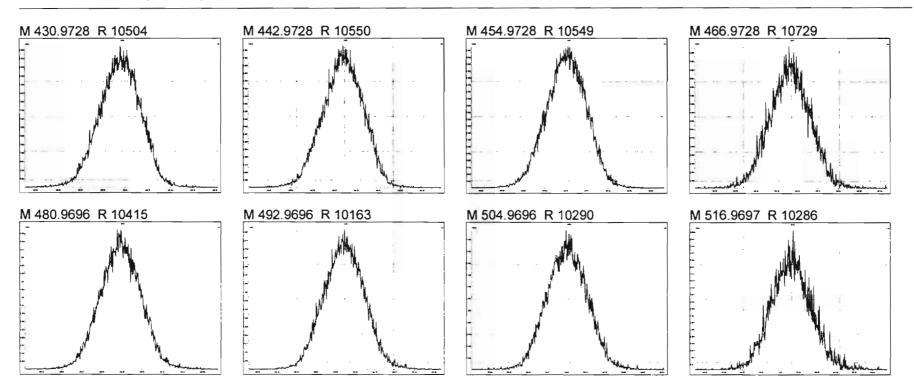
t

### MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Friday, January 31, 2020 16:45:52 Pacific Standard Time



Quantify Sample Summary Report Vista Analytical Laboratory VG-11		MassLynx 4.1 SCN815	Page 1 of 1
Dataset:	Untitled		
Last Altered: Printed:		0 11:18:10 AM Pacific Standard Time 0 11:18:19 AM Pacific Standard Time	

### Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1\_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1 20 5	# Name	RT
1	1 1,3.6,8-TCDD (First)	21.72
2	2 1,2,8,9-TCDD (Last)	26.66
3	3 1.2.4,7,9-PeCDD (First)	28.44
4	4 1,2,3,8,9-PeCDD (Last)	31.02
5	5 1,2,4.6,7,9-HxCDD (First)	32.51
6	6 1,2,3.7,8.9-HxCDD (Last)	34.37
7	7 1.2.3,4.6.7,9-HpCDD (First)	36.85
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.90
9	9 1,3.6,8-TCDF (First)	19.63
10	10 1.2.8.9-TCDF (Last)	26.81
11	11 1,3,4.6,8-PeCDF (First)	26.77
12	12 1,2,3,8,9-PeCDF (Last)	31.26
13	13 1.2,3,4,6.8-HxCDF (First)	31.95
14	14 1,2,3,7,8,9-HxCDF (Last)	34.72
15	15 1,2,3,4.6,7,8-HpCDF (First)	36.47
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.50

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

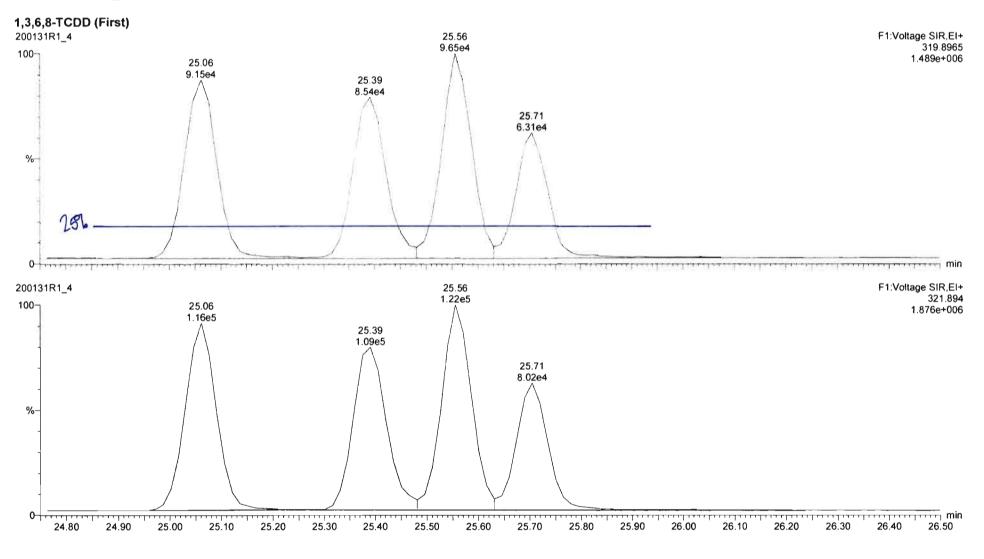
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Dataset: Untitled

Last Altered:	Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time
Printed:	Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

#### Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

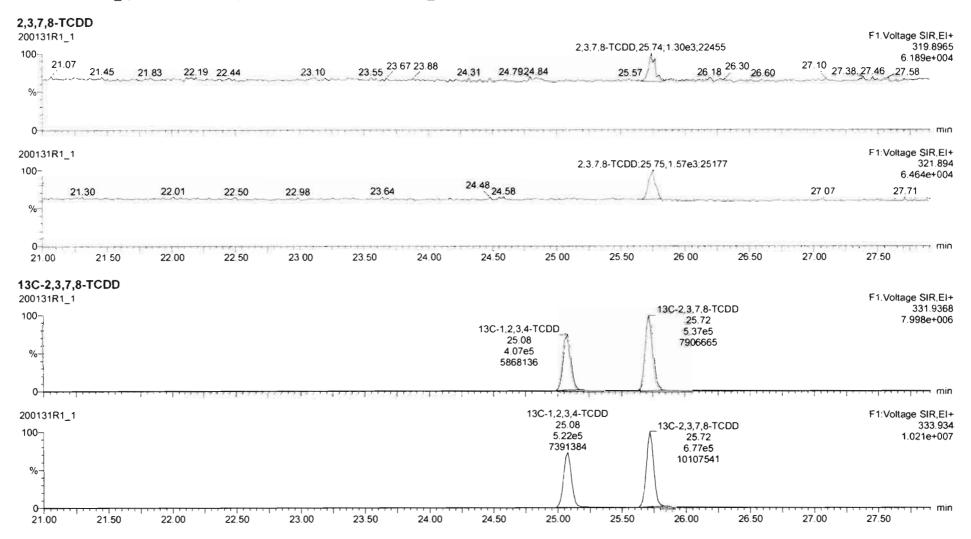
Name: 200131R1\_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1\_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305



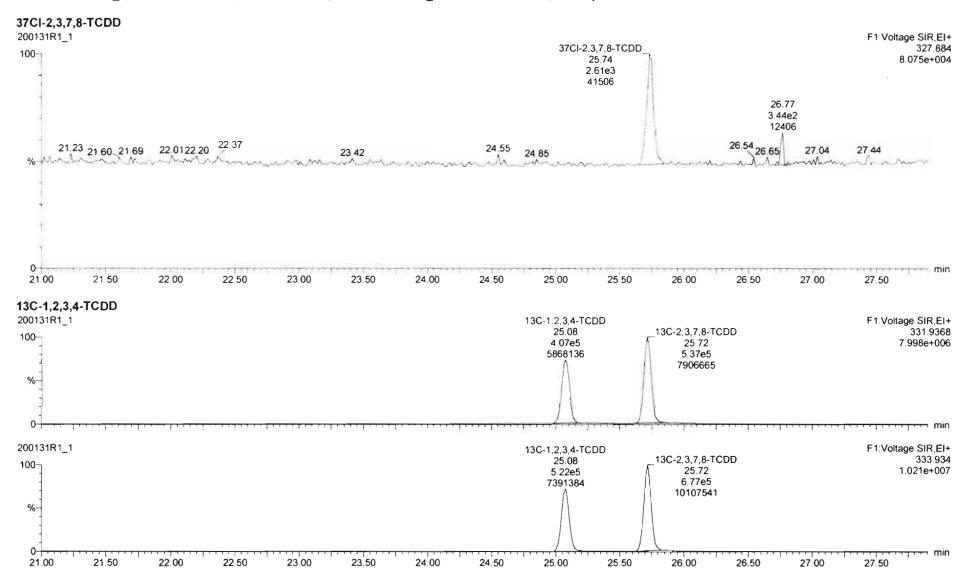
Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 1 of 78
Dataset:	Untitled		
Last Altered: Printed:		uary 02, 2020 11:06:20 AM Pacific Standard Time uary 02, 2020 11:06:35 AM Pacific Standard Time	

#### Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23 Calibration: 02 Feb 2020 11:06:20

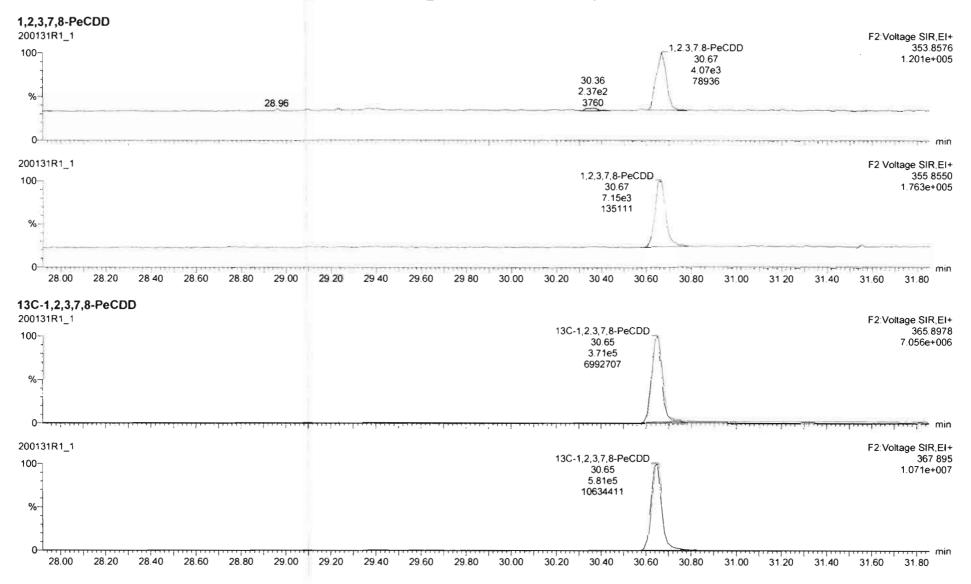
#### Name: 200131R1\_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1\_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



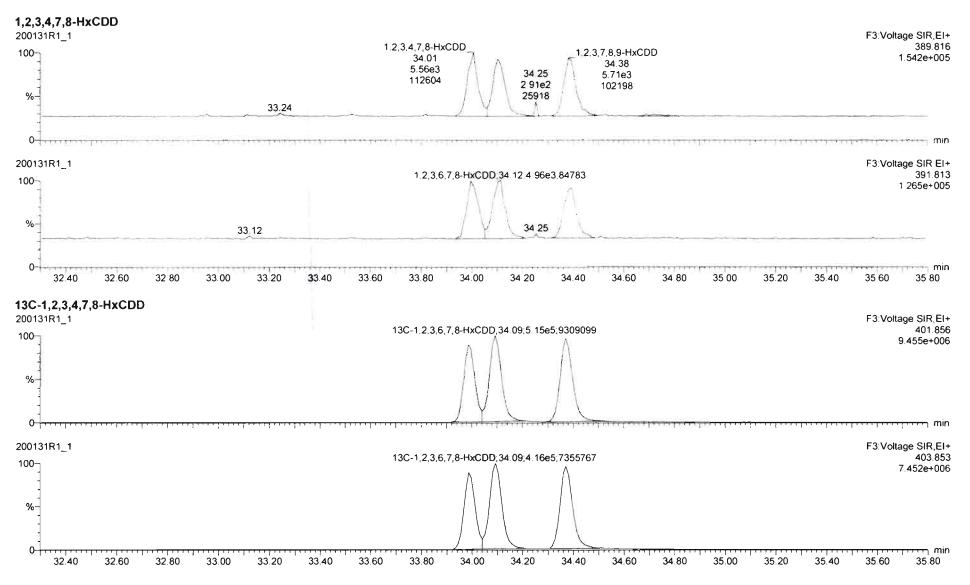
Quantify San Vista Analytic		Page 2 of 78
Dataset:	Untitled	
Last Altered: Printed:	Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time	



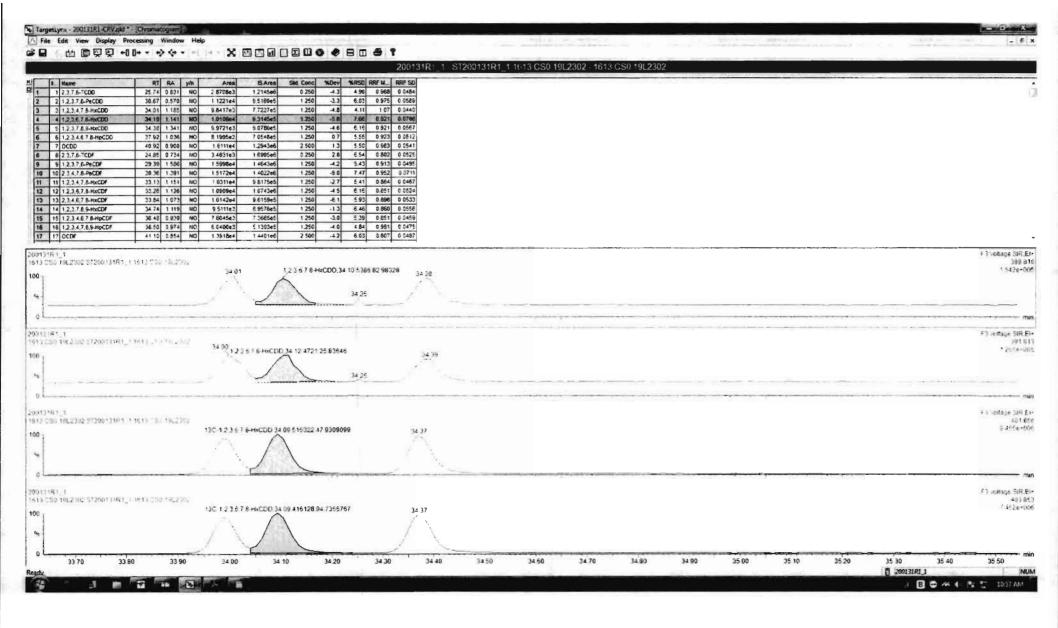
Quantify Sam Vista Analytica		Page 3 of 78
Dataset:	Untitled	
Last Altered: Printed:	Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time	



Quantify Sam Vista Analytica		Page 4 of 78
Dataset:	Untitled	
Last Altered: Printed:	Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time	

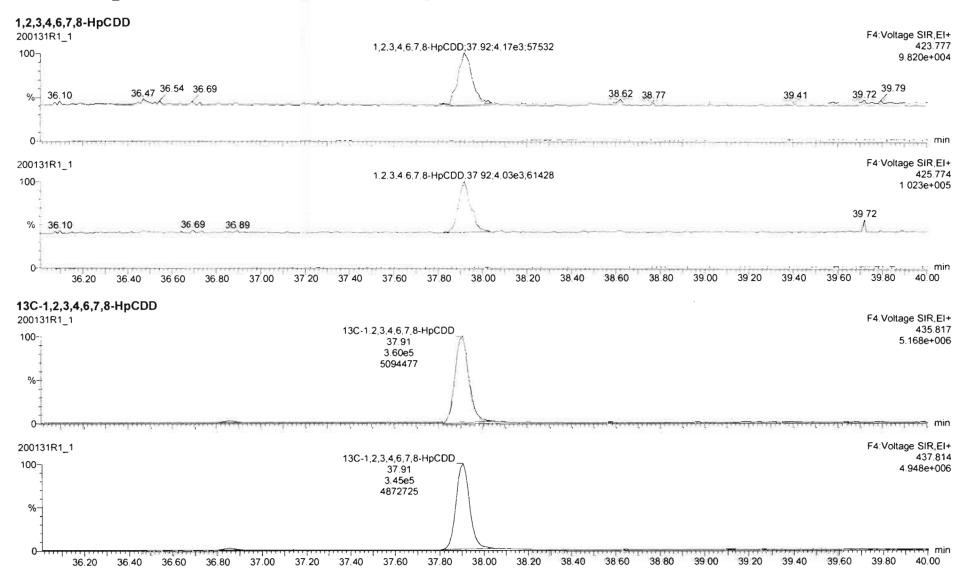


			IR1_1 1613 CS0 19L2302 1613 CS0 19L2302	
Nome     1 23.7.6-TCDD	RT RA y/n Area ISArea 25 74 0 831 NO 2 8708e3 1 2145e6	Sid Conc %Dev %RSD RRF M RRF SD 0 250 -4 3 4 90 0 968 6 0 484		
2 2 1.2.3.7.8-PeCDD	30.67 0.570 NO 1.1221e4 9.5160e5	1.250 -3 3 6.03 0.975 0.0589		
3 3 1,2,3,4,7,8-HxCDD 4 4 1,2,3,8,7 8-HxCDD	34.01 1.185 NO 9.8417e3 7.7227e5 34.10 1.141 NO 1.0108e4 9.3145e5	1250 -4.8 4.11 1.07 0.0440 1250 -5.8 7.66 0.921 0.0706		
5 5 1 2.3 7.8.9-HxCDD	34.36 1.341 NO 9.5721e3 9.0780e5	1 250 -4 6 6 16 0 921 0 0567		
6 6 1.2.3 4.6 7.8-MpCDD	37 92 1 036 NO 8 1995e3 7 0548e5	1 250 0 7 5 35 0 923 0 0512 2 500 1 3 5 50 0 963 0 0541		
7 7 OCDC 6 8 2 3.7.8-TCDF	40.92 0.900 NO 1.6111e4 1.2943e6 24.85 0.734 NO 3.4631e3 1.6905e6	0 250 2.8 6 4 0 802 0 0525		
9 9 1.2.3.7.6-PeCDF	29.39 1.586 NO 1.5998e4 1.4643e6	1 250 -4.2 5.43 0 913 0 0495		
10 10 2 3.4.7 8-PeCDF 11 11 1.2.3 4.7 8-HxCDF	30.36 1.391 NO 1.5172e4 1.4022e6 33.13 1.151 NO 1.0311e4 9.8175e5	1 250 -5 0 7 47 0 952 0 0711 1 250 -2 7 5 41 0 884 0 0467		
12 12 1.2.3.6.7.8-HxCDF	33.25 1.126 NO 1.0909e4 1.0743e5	1.250 4.5 8.16 0.851 0.0524		
13 13 2.3,4,6,7 B-HxCDF	33.84 1.073 NO 1.0142e4 9.6159e5 34.74 1.119 NO 9.5111e3 8.9576e5	1 250 -6 1 5 93 0 896 0 0533 1 250 -1 3 6 -6 0 660 0 0556		
14 14 1.2.3 7.8 9-HxCDF 15 15 1.2.3 4,6.7 8-HpCDF	34 74 1 119 HO 9 5111e3 8 9576e5 36 48 0 939 NO 7 6045e3 7 3665e5	1 250 -3.0 5 39 0 251 0 0459		
18 16 1.2.3 4.7 8 9-HpCDF	36.50 0.574 NO 6.0400e3 5.1303e5	1 250 4.0 4.84 0.981 0.0475		
17 17 OCDF	41 10 0.854 NO 1.3918e4 1.4401eč	2 500 -42 6 03 0 807 0 0467		
0131R1_1 13 CS0 19L2302 S1260131P1	1012050-902502			F shottage SiR 389
0.		1 2 3 4 7.8-HICOD 34 01 5338 32.112155	34 38	1 5426
6-			34.26	
013161_1 13 099 19(2302:512961316)	CONTRACTOR AND AND			F1 Kauge SiF
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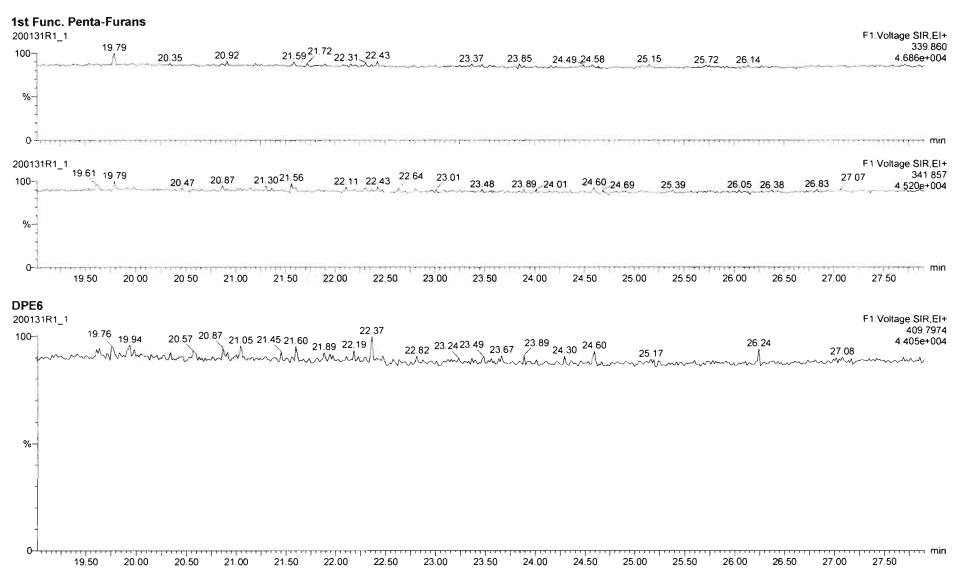
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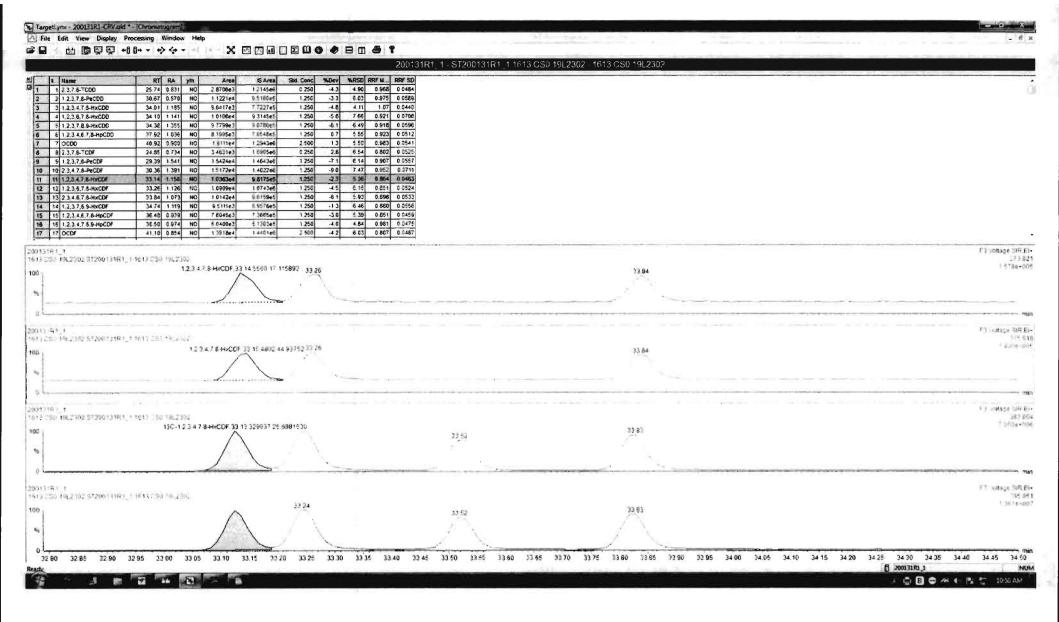
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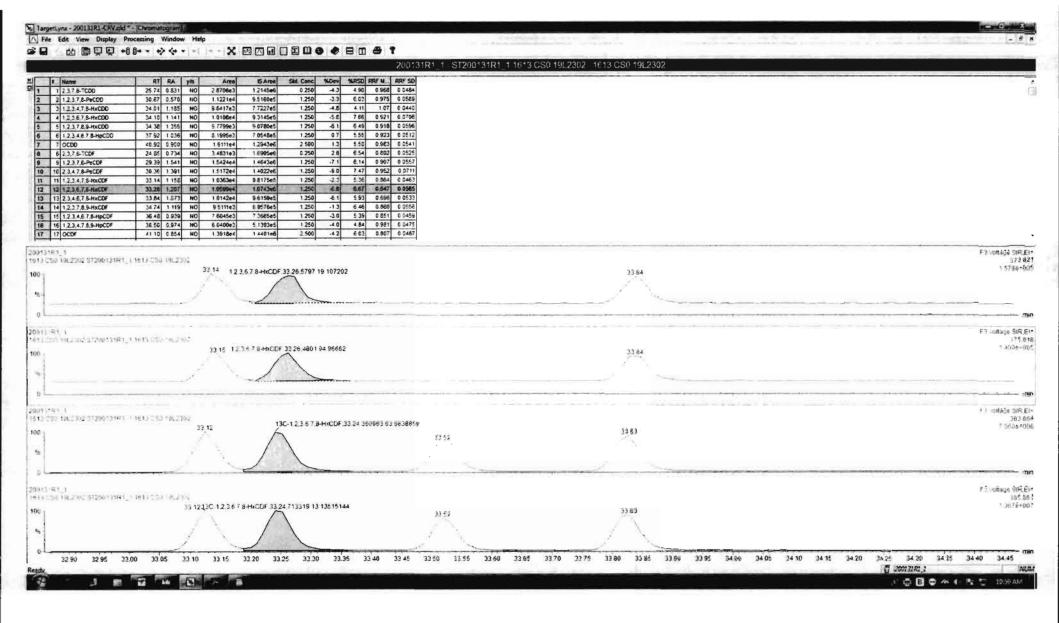


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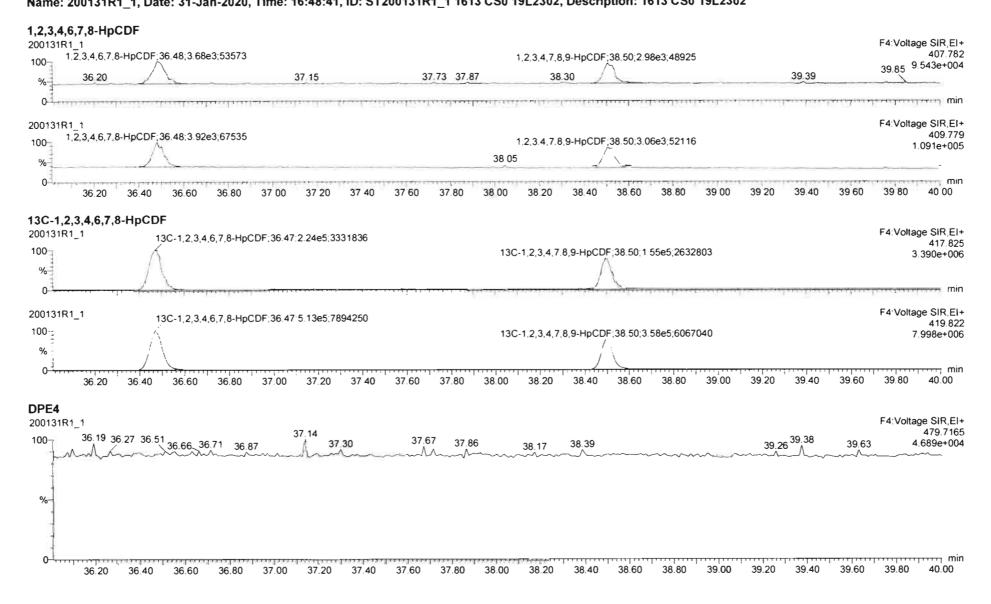
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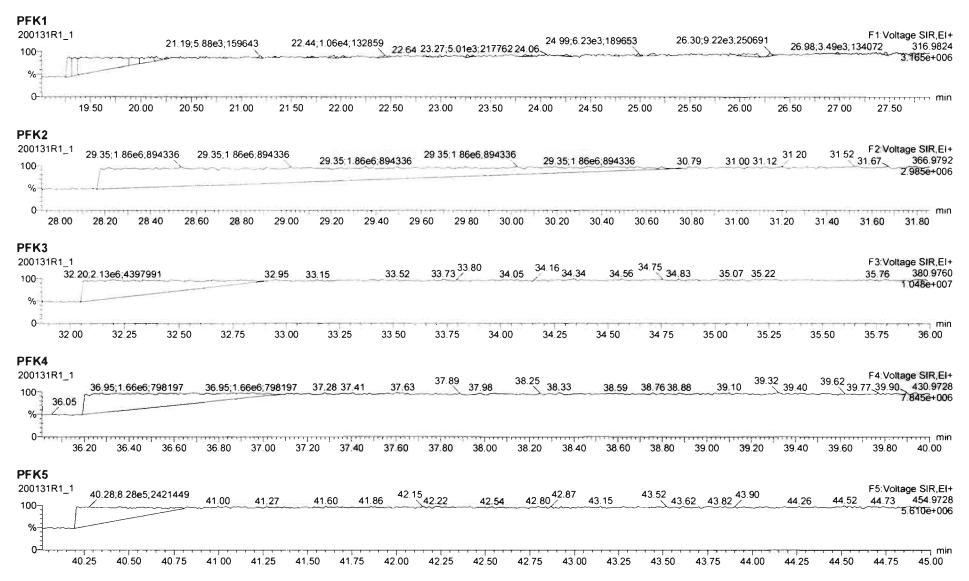


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1 1 2.3.7.8-TCDO	25.74 0.831 NO 2.8706e3	1 214506 0 250 -4 3 4 90 0 568 0 0484		1
2 2 12.3.7 &-PeCDD 3 3 1.2.3.4.7 &-HxCDD	30.87 0.570 NO 1 1221e4 34.01 1.185 NO 9.6417e3	9 5 160e5 1 250 -3.3 6.03 0.975 0 0589 7 7227e5 1 250 -4.8 4.11 1 07 0 0440		
4 4 12.3.8.7 8-HxCDD	34.10 1.141 NO 1.0106e4	9 3145e5 1 250 -5 6 7 66 0 921 0 0706		
5 5 1.2.3 7 8.9-HxCDD	34 38 1 355 NO 9 7799e3	9 0780e5 1 250 -61 6 49 0 918 0 0596		
6 6 1 2.3 4.6 7 8-HOCDD	37 92 1 036 NO 8 1995e3	7 0548e5 1 250 0 7 5.55 0.923 0.0512		
7 7 DCDC	40.92 0.900 NO 1.6111e4	1 2943e6 2 500 1 3 5.50 0.983 0 0541		
8 6 2.3.7.6-TCDF	24 85 0 734 NO 3 463103	1 8905e6 0 250 2.8 6.54 0.802 0.0525		
9 9 1.2.3.7.6-PeCDF 10 10 2.3.4.7.6-PeCDF	29.39 1.541 NO 1.5424e4 30.36 1.391 NO 1.5172e4	1 4643e6 1 250 -7 1 6 14 0 907 0 0557 1 4022e6 1 250 -9 0 7 47 0.952 0 0711		
11 11 12.3.4.7 8-HxCDF	33 14 1.158 NO 1.0363e4	9 8175e5 1 250 -2 3 5 36 0 864 0 0463		
12 12 12.3.6.7 8-HXCOF	33.26 1.207 HO 1.0599e4	1074366 1250 68 6.67 0.847 0.0565		
13 13 2 3.4.6.7 8-HxCDF	33.84 1.073 NO 1.0142e4	9.6159e5 1.250 -6.1 5.93 0.896 0.0533		
14 14 1.2.3 7.6 9-HxCDF	34.74 1 119 NO 9.5111e3	8 9576e5 1 250 -1 3 6 46 0.860 0 0556		
15 15 1.2.3.4.6.7,8-HpCDF	36.48 0.939 NO 7 6045e3	7 3665e5 1 250 -3.0 5 39 0 851 0 0459 5 0414e5 1 250 -4.7 4.99 0.950 0 0469		
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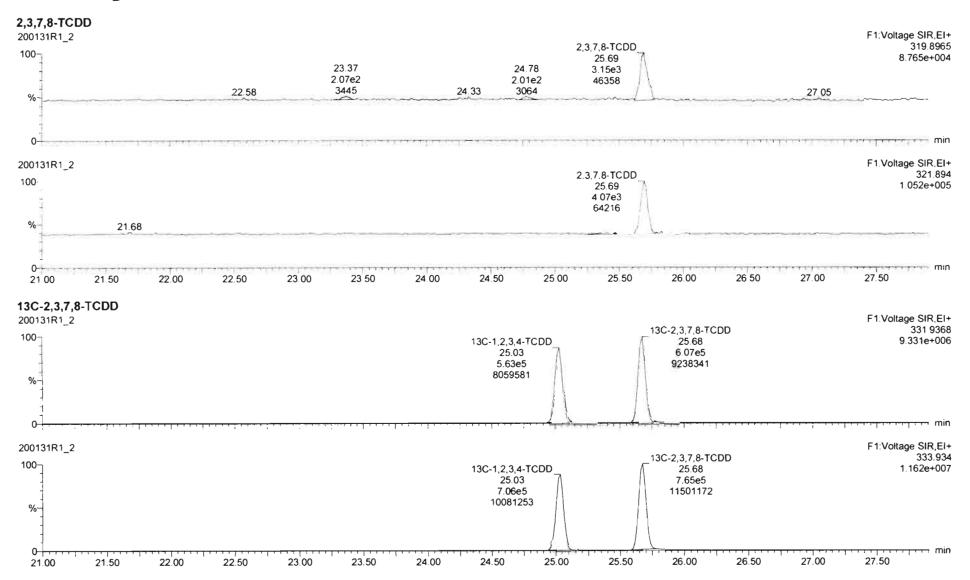
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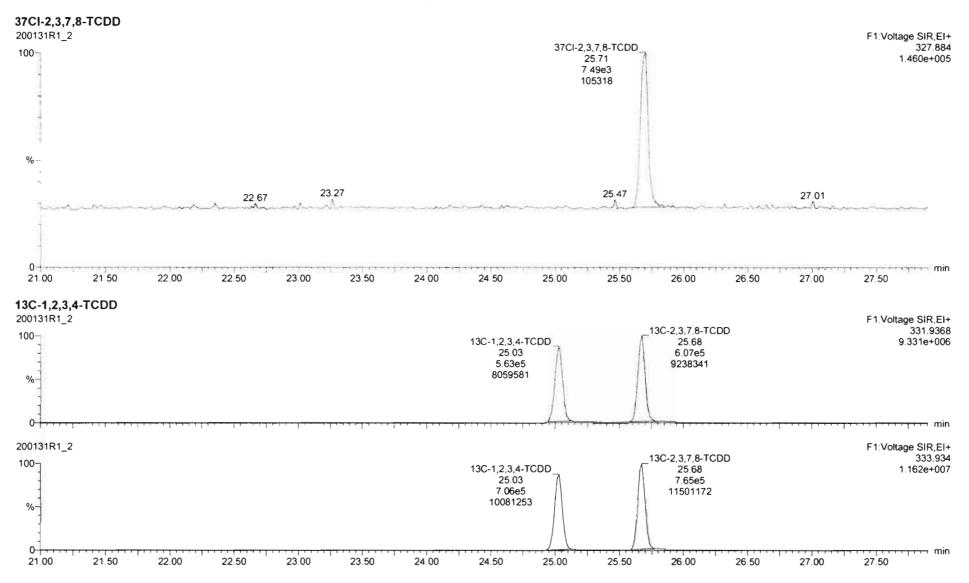
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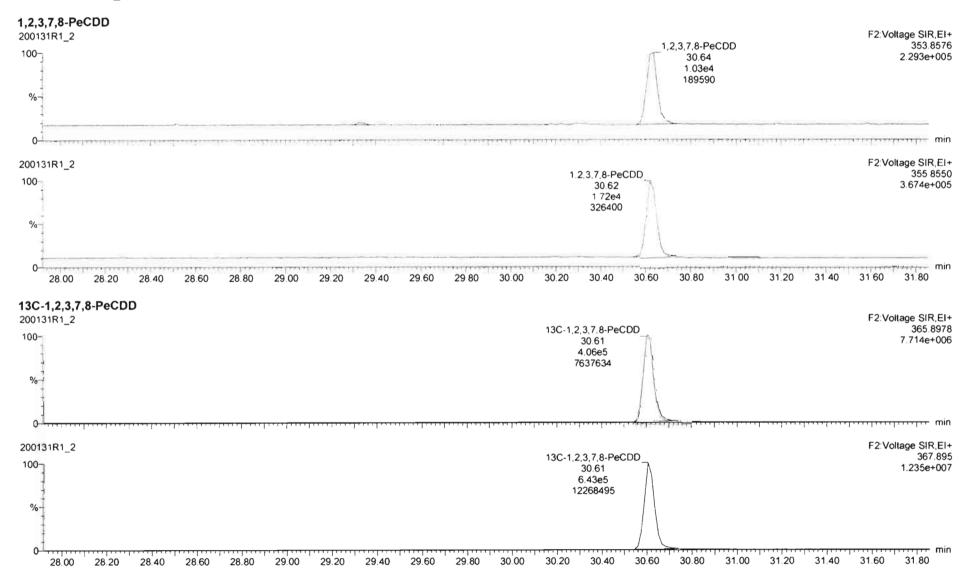
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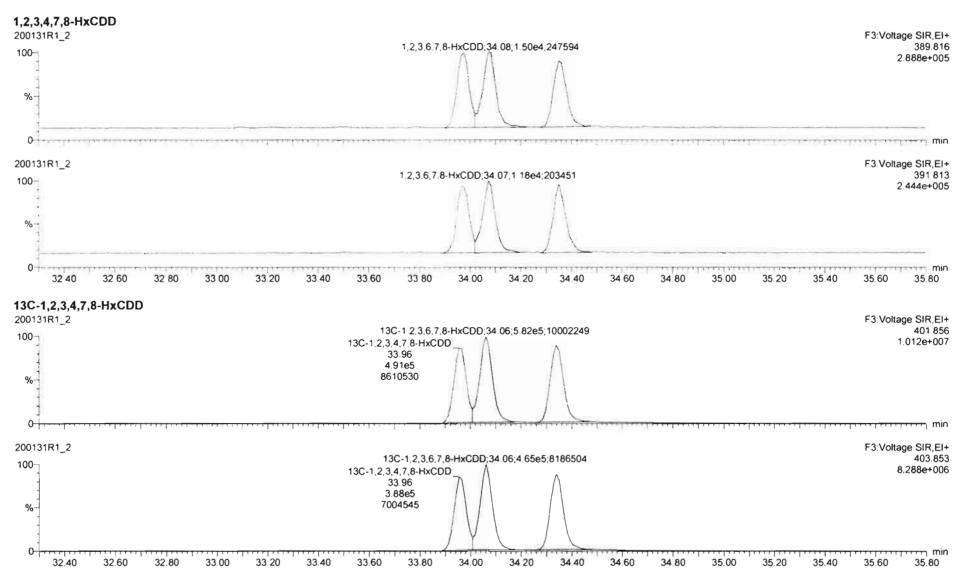
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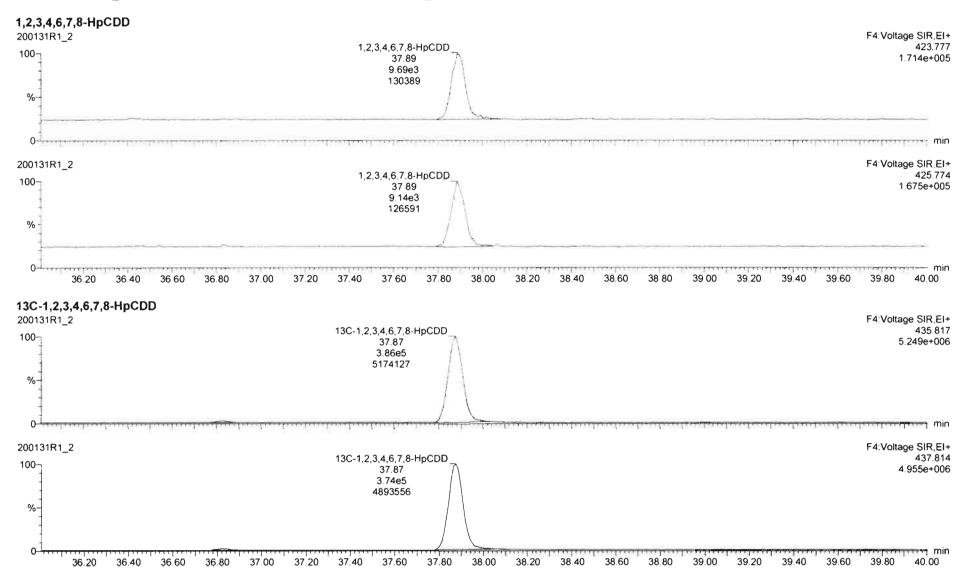
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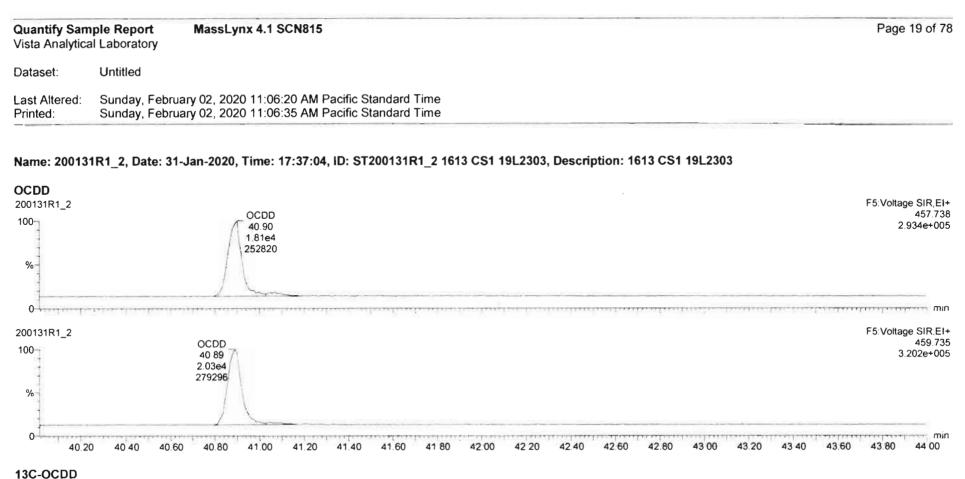


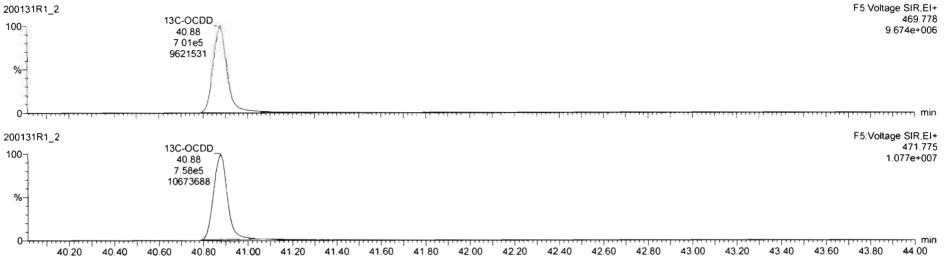
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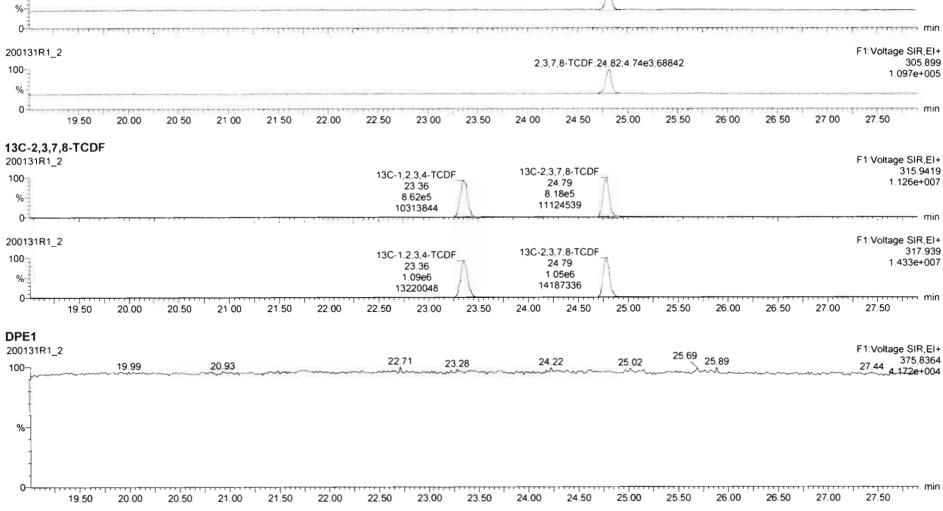
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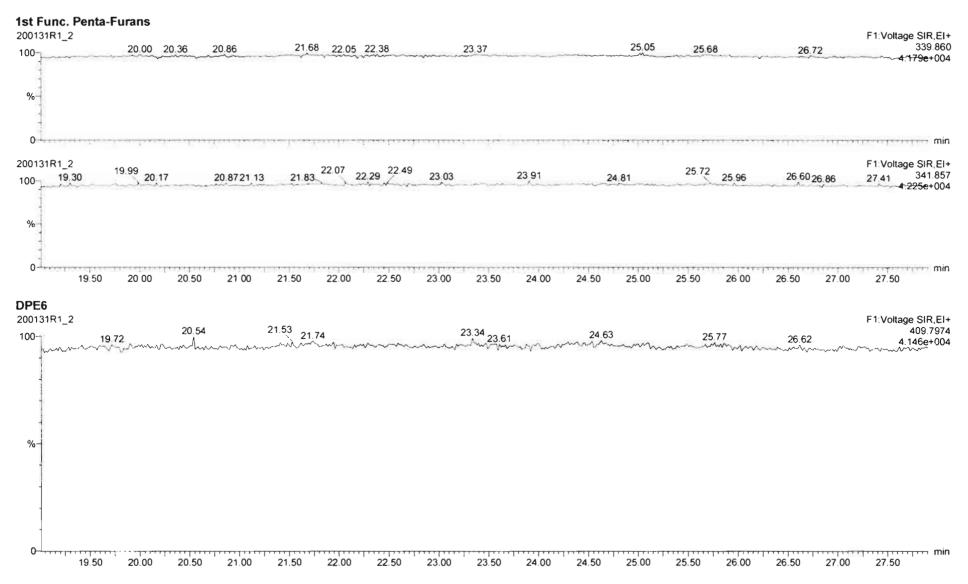




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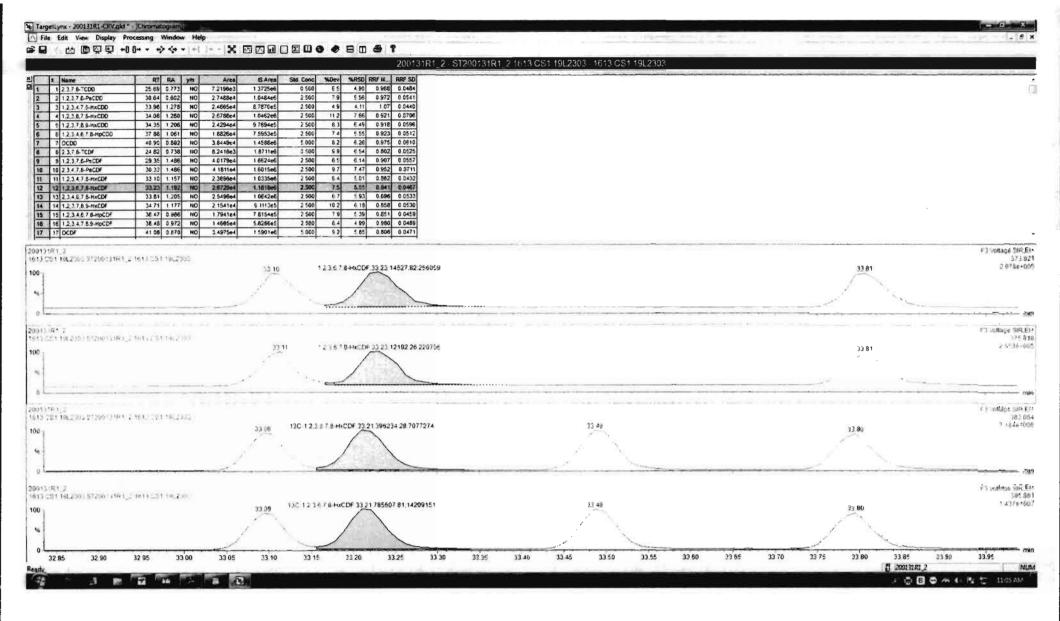
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<b>1,2,3,7,8-PeCDF</b> 200131R1_2 100- %		CDF;29.35;2.40e4;441248	2,3,4,7,8-PeCDF;30.33;2 50e4;461741	F2:Voltage SIR,EI+ 339.860 5.021e+005
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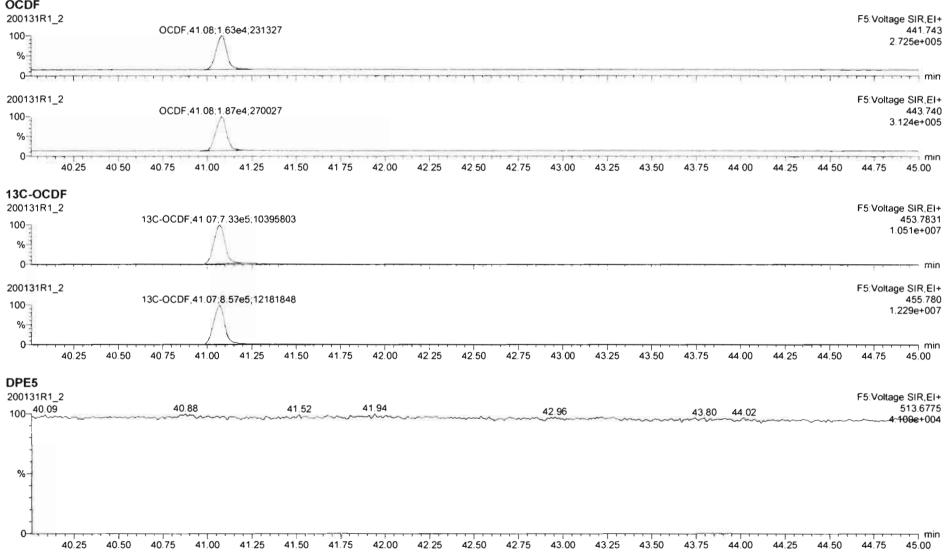
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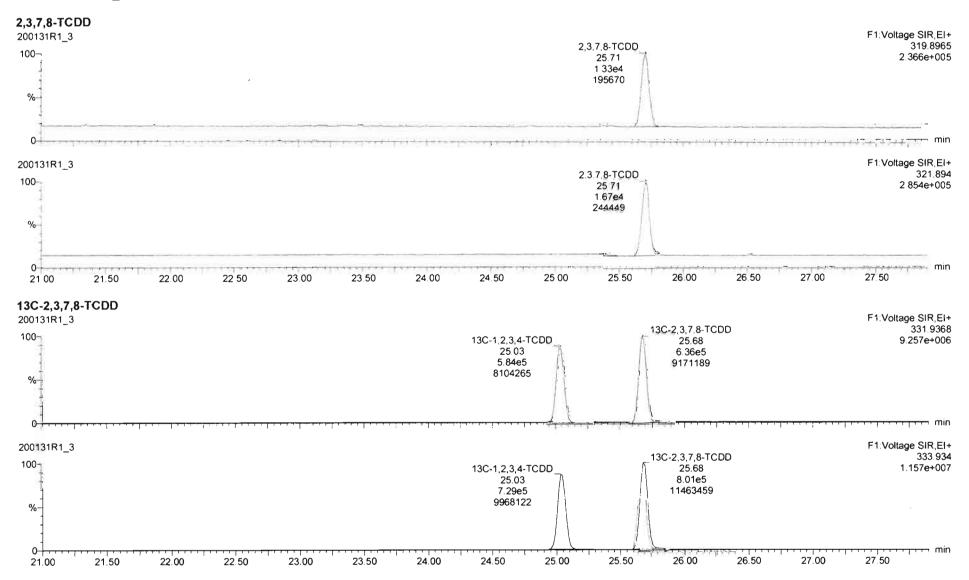
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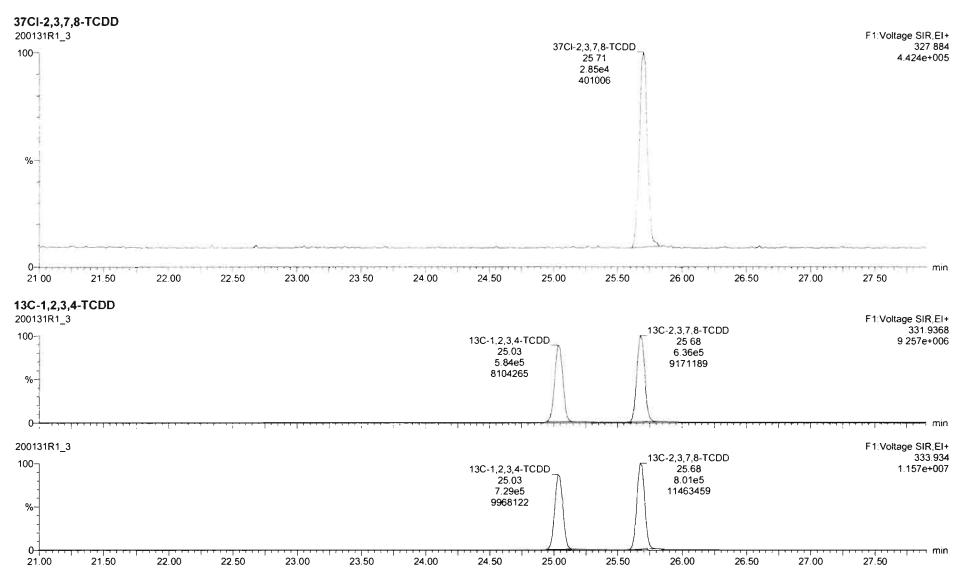
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FK2 00131R1_2 00 % 27.98	28.47;4 62e5.832414 28 47;4.62e5,832414 29 25 29 37 29.60 29.74 29.92 30.15 30.38 30.58 30.73 30.88 31.05 31.22 31.35 31.63 366.979 2705e+00
PFK2 200131R1_2 27 98 0 28.00	28.47;4 62e5,832414 28 47;4 62e5,832414 29 25 29 37 29 60 29,74 29.92 30 15 30 38 30 58 30 73 30 88 31.05 31.22 31.35 31.63 366 979 2:705e+00 2:705e+00
PFK2 100 100 27 98 0 28.00 PFK3 100131R1_2	28.47,4 62e5.832414 28 47,4 62e5,832414 29 25 29 37 29 60 29 74 29 92 30 15 30 38 30 58 30 73 30 88 31 05 31 22 31 35 31 43 31 63 366 979 2.705e+00 2.705e+0
<b>PFK2</b> 00131R1_2 00 27 98 0 28 00 <b>PFK3</b> 00131R1_2	28.47;4 62e5;832414 28 47;4 62e5;832414 29 25 29 37 29 60 29 74 29 92 30 15 30 38 30 58 30 73 30 88 31.05 31.22 31.35 31.43 F2. Voltage SIR,E 2705e+00 2.705
<b>FK2</b> 00131R1_2 00- 27 98 0- 28.00 <b>FK3</b> 00131R1_2	28.47:4 62e5.832414       28.47:4 62e5.832414       29.25 29.37       29.60 29.74       29.92       30.15       30.38       30.58       30.73       30.88       31.05       31.22       31.35       31.63       366.979         28.47:4 62e5.832414       29.25 29.37       29.60 29.74       29.92       30.15       30.38       30.58       30.73       30.88       31.05       31.22       31.35       31.63       366.979         28.20       28.40       28.60       28.80       29.00       29.20       29.40       29.60       29.80       30.00       30.20       30.40       30.60       31.00       31.20       31.40       31.60       31.80         F3 Voltage SIR.EI         36e6; 1521819       33.84;5.36e6; 1521819       33.84;5.36e6; 1521819       34.5434.66       34.87       35.16       58.6       380.976
FK2 00- 00- 27 98 0- 28.00 FK3 00- 00131R1_2 00- 33.84.5. % 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	28.47,4 62e5.832414       28.47,4 62e5.832414       29.25 29.37       29.60 29.74       29.92       30.15       30.38       30.58       30.73       30.88       31.05       31.22       31.35       31.63       366 97         28.47,4 62e5.832414       28.47,4 62e5.832414       29.25 29.37       29.60 29.74       29.92       30.15       30.38       30.58       30.73       30.88       31.05       31.22       31.35       31.63       366 97         27.7056+00       27.7056+00       29.80       30.00       30.20       30.40       30.60       30.80       31.00       31.20       31.40       31.60       31.80         28.20       28.40       28.60       28.80       29.00       29.20       29.40       29.60       29.80       30.00       30.20       30.40       30.60       30.80       31.00       31.20       31.40       31.60       31.80         F3 Voltage SiR E       F3 Voltage SiR E         3666, 1521819       33.84:5 36e6; 1521819       33.84:5 36e6; 1521819       34.5434.66       34.87       35.16       35.86       380.976       97.794e+00         9.794e+00
FK2 00131R1_2 00- % 27.98 0- 28.00 FK3 00131R1_2 00- 33.84,5 %	28.47:4 62e5.832414       28.47:4 62e5.832414       29.25 29.37       29.60 29.74       29.92       30.15       30.38       30.58       30.73       30.88       31.05       31.22       31.43       F2 Voltage SIR E         28.47:4 62e5.832414       29.25 29.37       29.60 29.74       29.92       30.15       30.38       30.58       30.73       30.88       31.05       31.22       31.35       31.63       366.97         27.705e+00       27.705e+00       27.705e+00       27.705e+00       27.705e+00       27.705e+00       27.705e+00         28.20       28.40       28.60       28.80       29.00       29.20       29.40       29.60       29.80       30.00       30.20       30.40       30.60       30.80       31.00       31.20       31.40       31.60       31.80         F3 Voltage SiR E         36e6; 1521819       33.84;5.36e6; 1521819       33.84;5.36e6; 1521819       34.5434.66       34.87       35.16       35.86       380.97         9.794e+00       9.794e+00       9.794e+00       9.794e+00       9.794e+00       9.794e+00
PFK2 00131R1_2 00 27 98 0 28.00 PFK3 00131R1_2 00 33.84.5 32.00 PFK4	28.47,4 62e5,832414       28.47,4 62e5,832414       29.25 29.37       29.60 29.74       29.92       30.15       30.38       30.58       30.73       30.88       31.05       31.22       31.35       31.43       31.63       366.97         28.47,4 62e5,832414       28.47,4 62e5,832414       29.25 29.37       29.60       29.74       29.92       30.15       30.38       30.58       30.73       30.88       31.05       31.22       31.35       31.63       366.97         28.20       28.40       28.60       28.80       29.00       29.20       29.40       29.60       29.80       30.00       30.20       30.40       30.60       31.00       31.20       31.40       31.60       31.80         28.20       28.40       28.60       28.80       29.00       29.20       29.40       29.60       29.80       30.00       30.40       30.60       31.00       31.20       31.40       31.60       31.80         F3 Voltage SiR E         Jass 44.5       36e6.1521819       33.84.5       36e6.1521819       34.5434.66       34.87       35.16       35.86       380.97       97.94e+0         9.794e+0

#### 100 7.153e+006 36.04 %-win the function of the second s -------TTTTTTT -------Lid. Charles \*\*\*\*\*\*\* 1111 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 40.00 PFK5 200131R1\_2 F5:Voltage SIR,EI+ 63 454.9728 100 40.30,4.90e5;2269248 40.87;1.65e5;995597 41.80 41.50;5.57e3;240598 42.1242.27 42.65;3.25e3;172777 43.30,1.02e4,278571 44.02;4.36e3;241178 44.45 44.63 ~4.991e+006 %-0min min 40.25 40.50 40.75 41.75 42.00 42.25 41.00 41.25 41 50 42.50 42.75 43.00 43.25 43.50 43.75 44.00 44.25 44.50 44.75 45.00

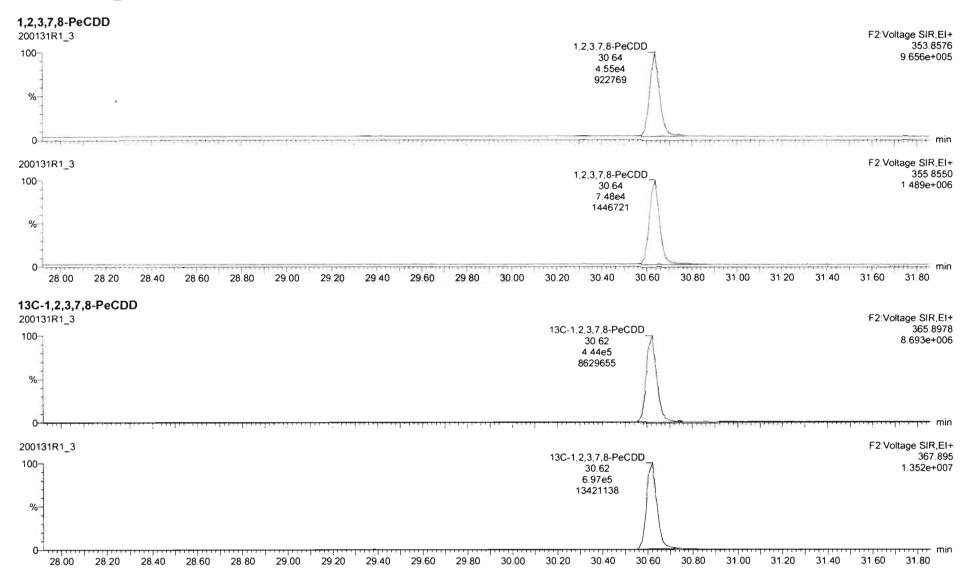
Quantify Sam Vista Analytica	• •	ssLynx 4.1 SCN815	Page 27 of 78
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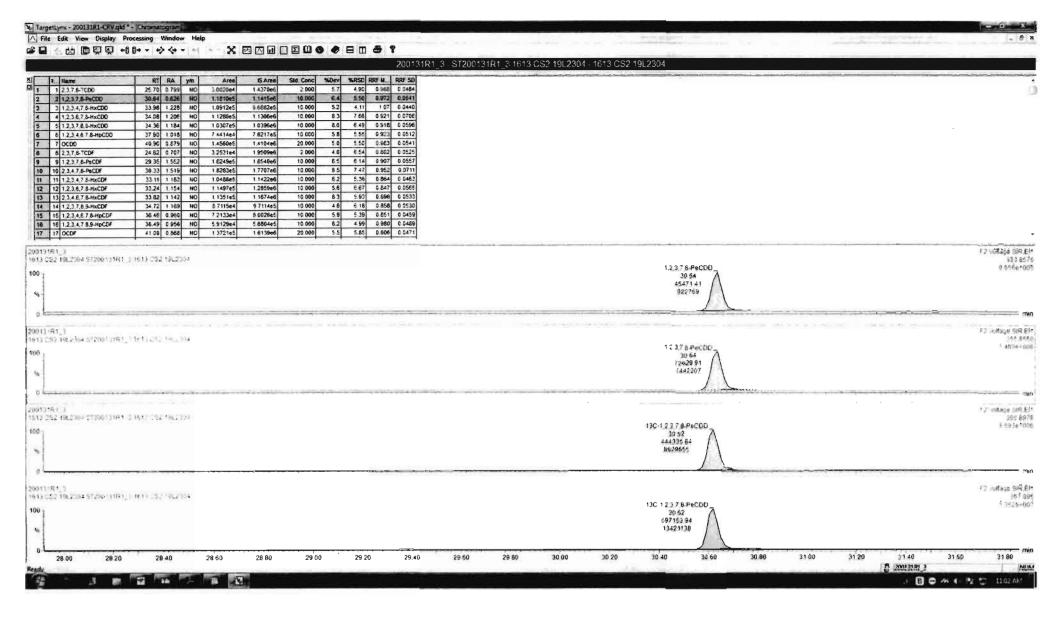


Quantify Sam Vista Analytica		Page 28 of 78
Dataset:	Untitled	
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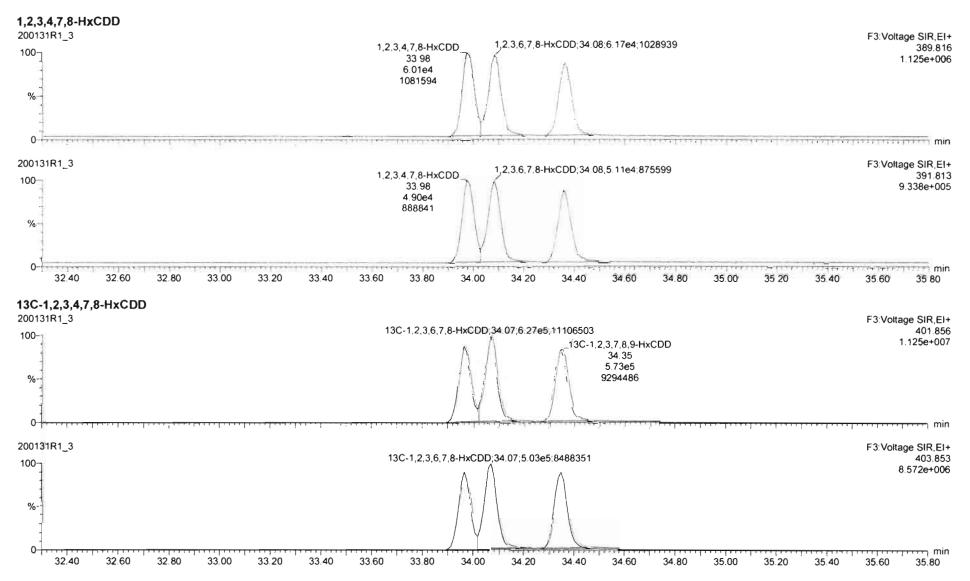


Quantify Sam Vista Analytica		Page 29 of 78
Dataset:	Untitled	
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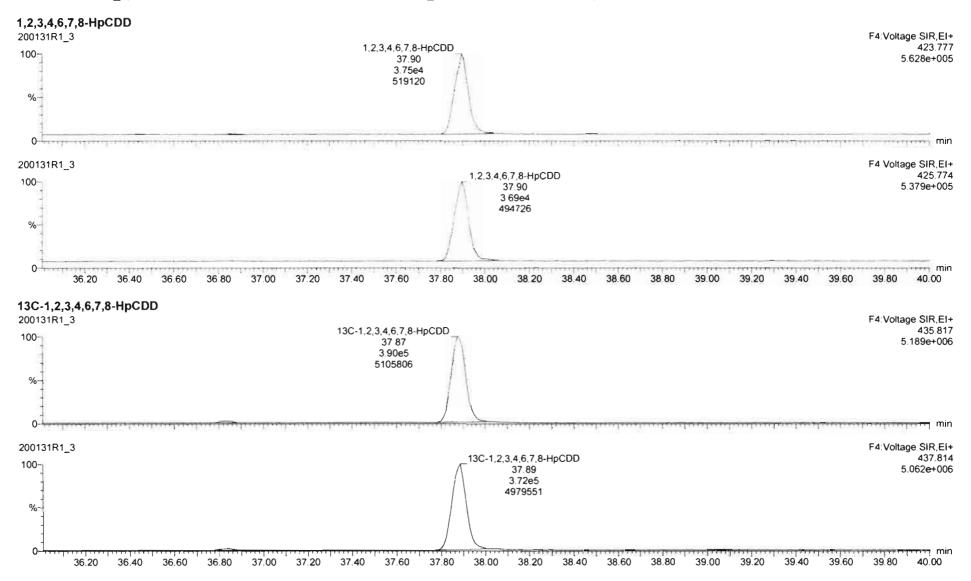




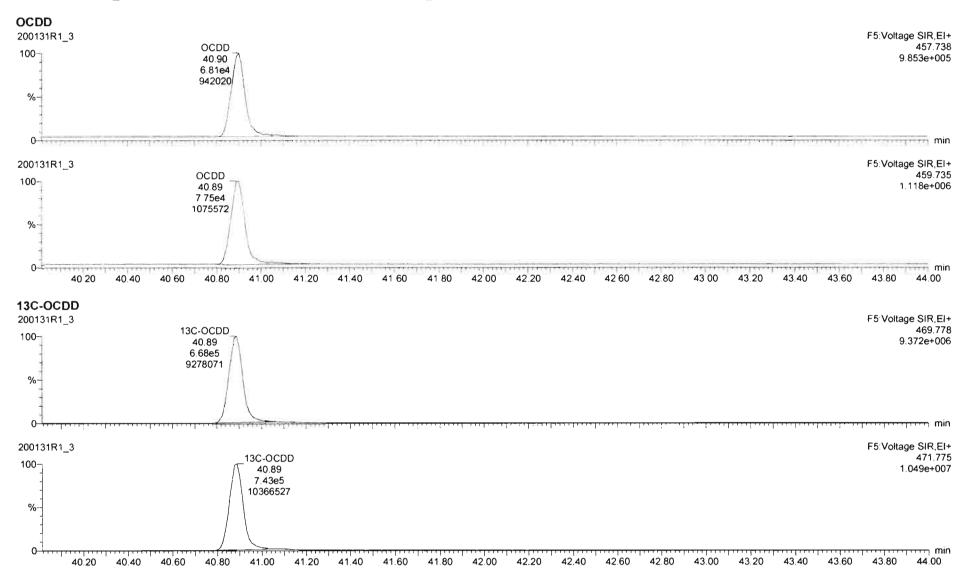
Quantify Sam Vista Analytica		Page 30 of 78
Dataset:	Untitled	
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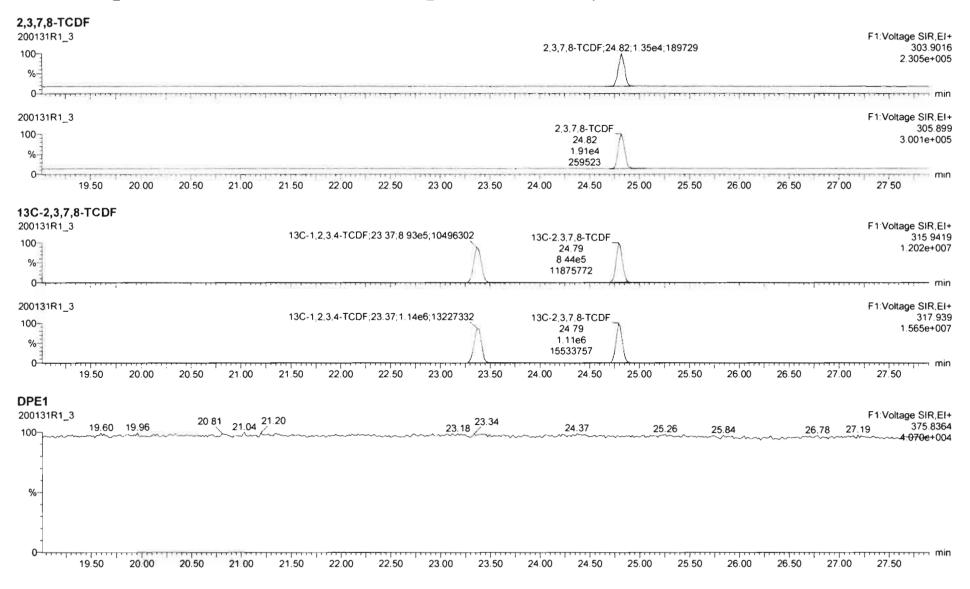
Quantify Sam Vista Analytica		Page 31 of 78
Dataset:	Untitled	
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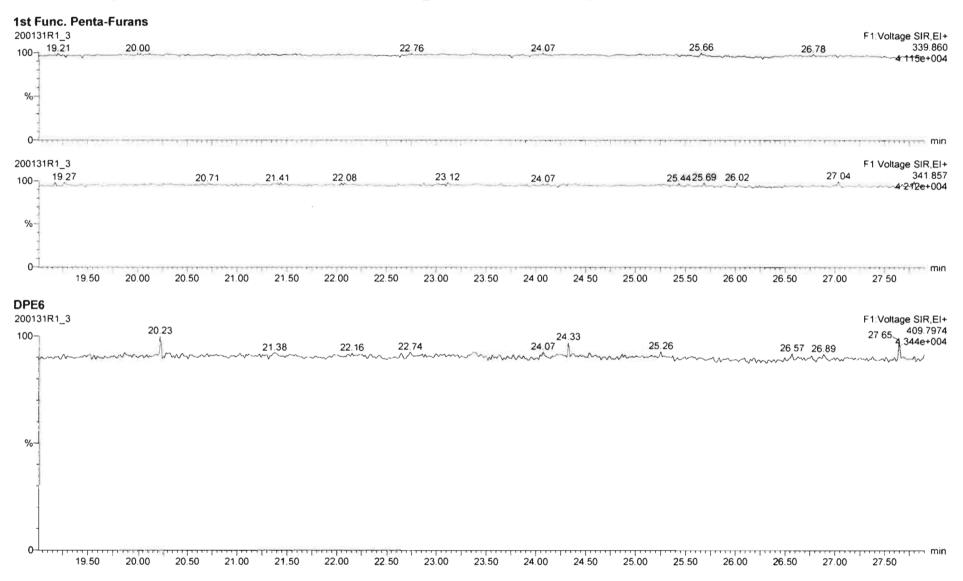
Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 32 of 78
Dataset:	Untitled		
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Quantify Sam Vista Analytica		Page 33 of 78
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Quantify Sam Vista Analytica		Page 34 of 78
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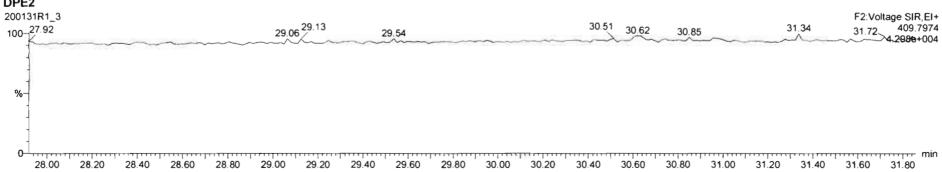


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Dataset:	Untitled		
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lame: 20013	1R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3	1613 CS2 19L2304, Description: 1613 CS2 19L2304	
,2,3,7,8-PeC	DF		F2:Voitage SIR,EI
100 %	1.2,3,7,8-PeCDF 29.35 1.11e5 2082787	2,3,4,7,8-PeCDF;30.33;1.10e5;2169839	339.86 2.219e+00
0		and a submittee of a second	F2:Voltage SIR,EI
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28.00	28 20 28 40 28 60 28 80 29 00 29 20 29 40 29 60	29.80 30.00 30.20 30.40 30.60 30.80 31.00 31.20	31.40 31.60 31.80
<b>3C-1,2,3,7,8</b> 00131R1_3	-PeCDF		
100	13C-1.2.3,7,8-PeCDF 29.34 1.14e6 21197592	13C-2.3.4.7.8-PeCDF 30.32 1.08e6 21975756	F2:Voltage SIR,EI 351.90 2.222e+00
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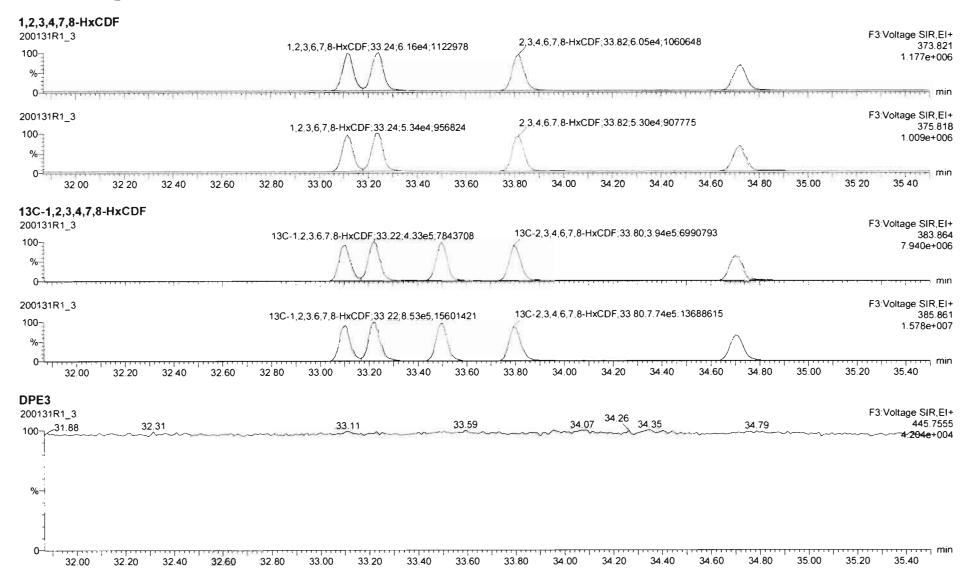
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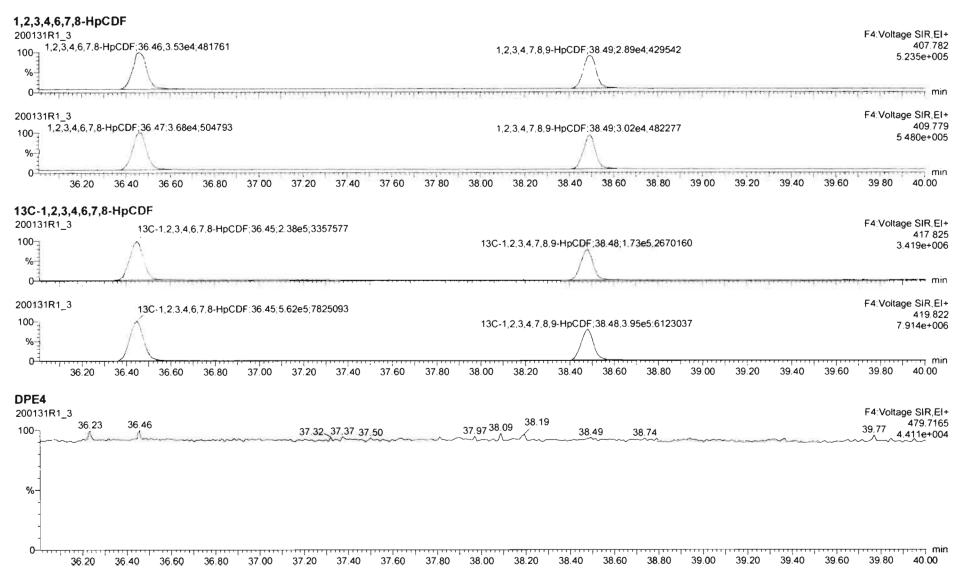
31.80

Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 36 of 78
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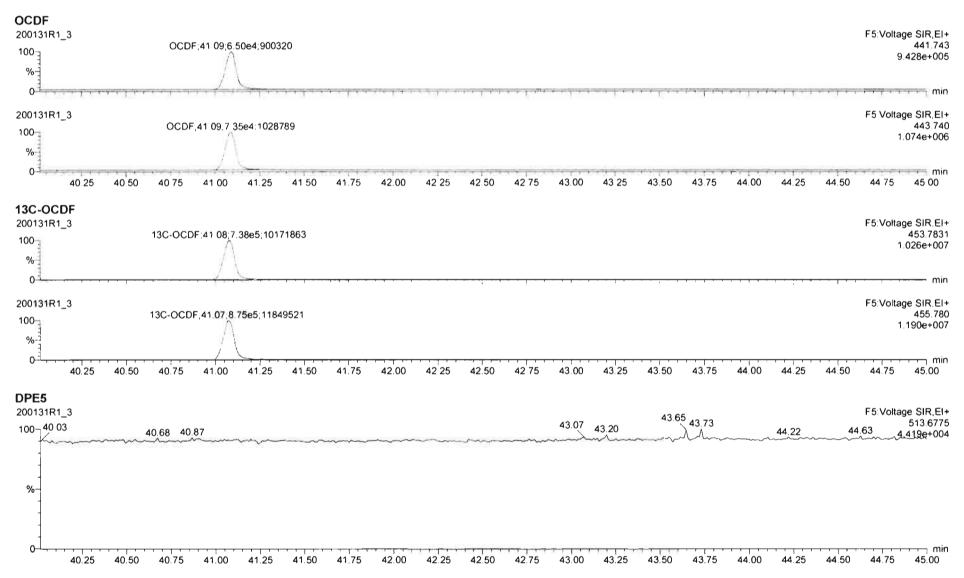


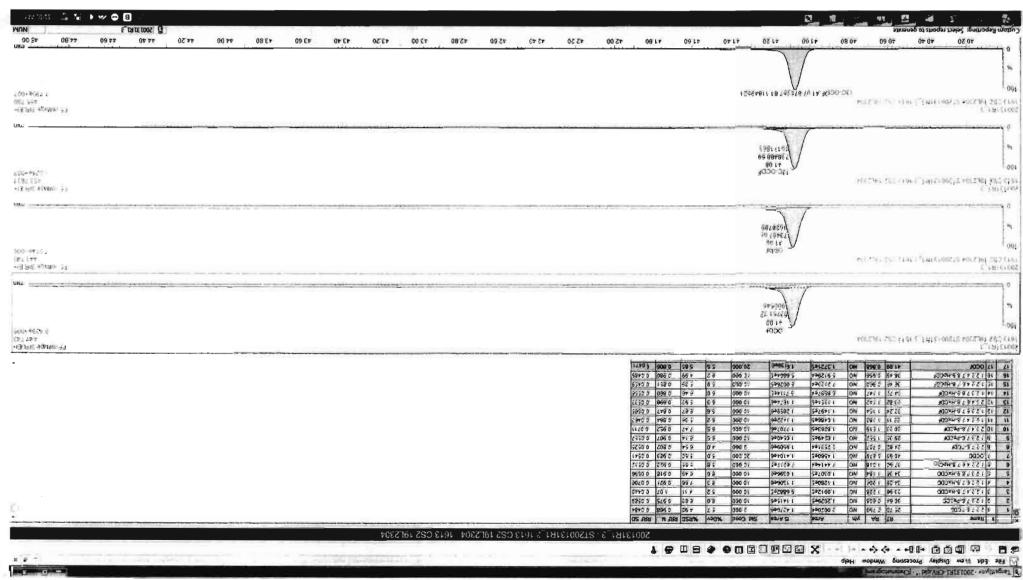
		ST200131R1_3 1613 CS2 19L2304 161	5 052 (alt2004	
1         2.3.7.8-TCDD         25.70         0.769         NO         3.0620e4         1.4.23           2         1.2.3.7.8-PECDD         3.064         0.806         NO         1.202e64         1.4.23           3         1.2.3.7.8-FECDD         3.064         0.806         NO         1.202e64         1.4.23           3         1.2.3.7.8-FECDD         3.044         0.806         NO         1.202e64         1.4.23           4         1.2.3.6.7.8-HECDD         3.4.96         1.206         NO         1.120e5         1.130           5         1.2.3.7.8-FECDD         3.4.96         1.206         NO         1.120e5         1.30           5         1.2.3.7.8-FECDD         3.4.96         1.86         NO         1.206e5         1.30           6         1.3.7.8-FECDF         2.4.82         0.707         NO         3.2531e4         1.960           9         1.2.3.7.8-FECDF         2.9.33         1.518         NO         1.422e5         1.86           10         2.3.7.8-FECDF         2.9.33         1.518         NO         1.822e5         1.777           11         1.2.3.4.7.8-HECDF         2.3.32         1.518         NO         1.822e5         1.771 <th>Ise6         10.000         8.0         6.02         0.975         0.0589           Ize5         10.000         5.2         4.11         1.07         0.9440           We6         10.000         5.2         4.11         1.07         0.9440           We6         10.000         8.0         7.66         0.978         0.0796           We6         10.000         5.0         5.55         0.923         0.0512           Ve6         20.000         5.0         5.50         0.923         0.0541           996         2.000         5.0         5.50         0.927         0.0557           10.000         6.5         6.14         0.907         0.0557           10.66         10.000         6.5         7.47         0.952         0.271           1266         10.000         6.5         5.26         0.864         0.463           We6         10.000         5.6         6.27         0.2657         0.2655           We6         10.000         5.6         6.27         0.877         0.0565           We6         10.000         5.6         6.27         0.878         0.0553           We6         10.000</th> <th></th> <th></th> <th></th>	Ise6         10.000         8.0         6.02         0.975         0.0589           Ize5         10.000         5.2         4.11         1.07         0.9440           We6         10.000         5.2         4.11         1.07         0.9440           We6         10.000         8.0         7.66         0.978         0.0796           We6         10.000         5.0         5.55         0.923         0.0512           Ve6         20.000         5.0         5.50         0.923         0.0541           996         2.000         5.0         5.50         0.927         0.0557           10.000         6.5         6.14         0.907         0.0557           10.66         10.000         6.5         7.47         0.952         0.271           1266         10.000         6.5         5.26         0.864         0.463           We6         10.000         5.6         6.27         0.2657         0.2655           We6         10.000         5.6         6.27         0.877         0.0565           We6         10.000         5.6         6.27         0.878         0.0553           We6         10.000			
16         12.2.47.5.5-HpCDF         36.49         0.956         HO         5.9126-4         5.601           17         CCDF         41.05         0.868         HO         1.3721e5         1.613           51/R1_3         CS2.19L2304         51206131R1_3.1613         CS2.19L2304         51206131R1_3.1613         CS2.19L2304		33 82	1,2,2,7,8,9+L4CDF 34,72 46943,41 757155	73 10640e 98 373 1 1776-
31R1_3 CS2 10L2304 51200131R1_7 1611 052 10L2364	33,11 33,24	33.82	121768-HKCDF 34.71 2017160 632977	F3 ×oftage SR T74: * 053e+
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1318113 ICS2 1962304 (17290/31411_) 1413 (25) 19(2304	33 10 33 22 33 50	33 60	13C-1 2.3 7 8 9 HsCDF 34 70 447447 50 10119345	F3 yolfags SR 1911 1576=4

Quantify Sam Vista Analytica	,	4.1 SCN815	Page 37 of 78
Dataset:	Untitled		
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<b>Quantify Sam</b> Vista Analytica		Page 38 of 78
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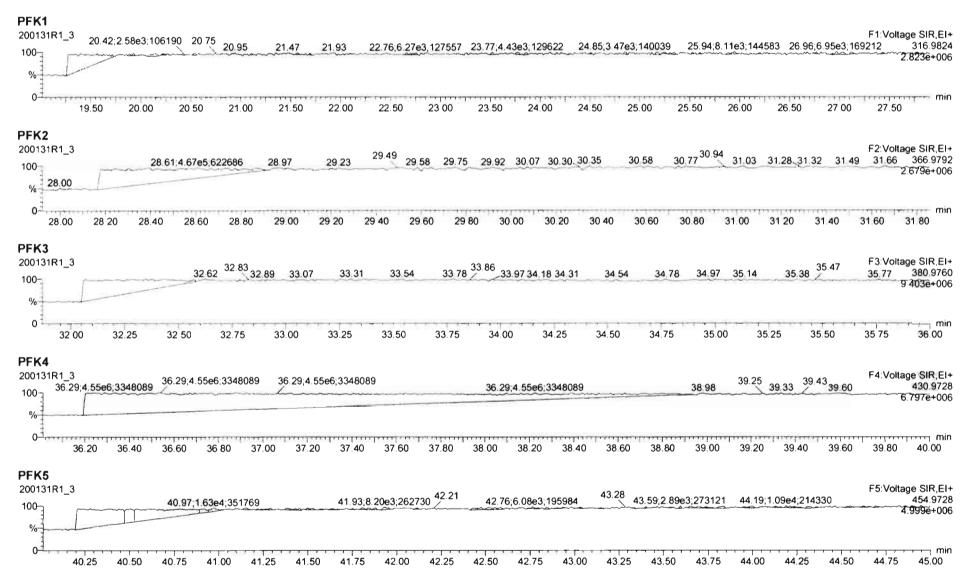




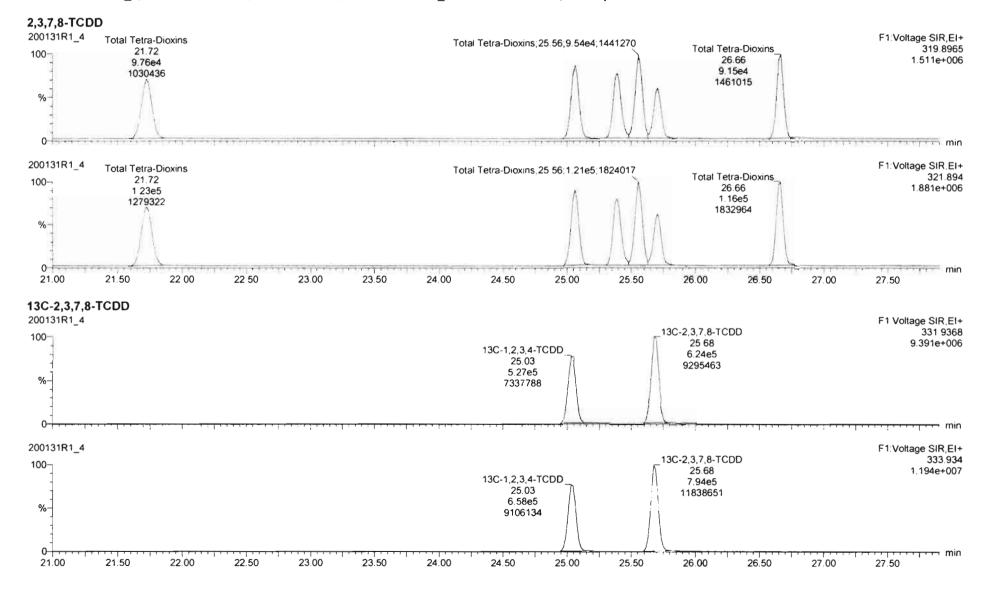
Work Order 2000329

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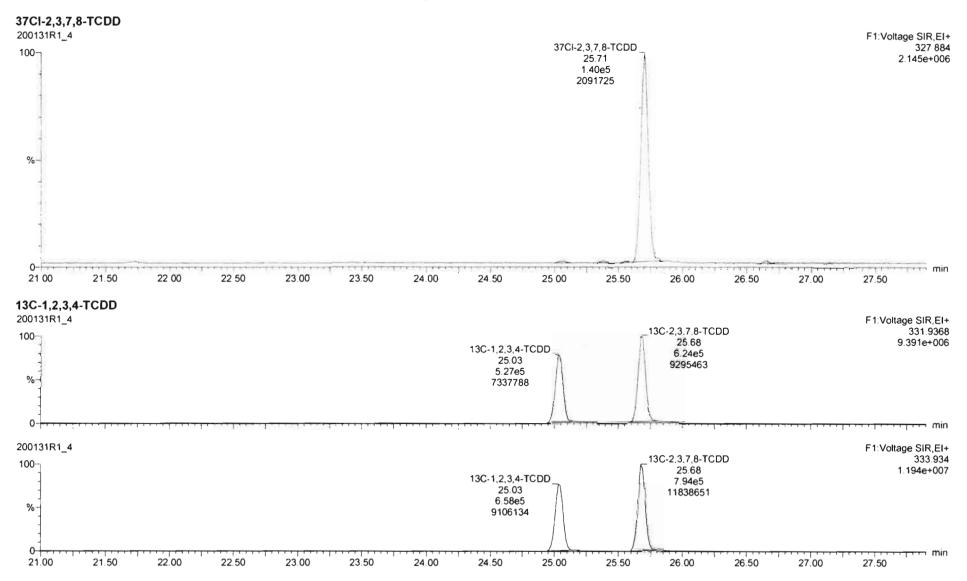


Quantify Sam Vista Analytica		Page 40 of 78
Dataset:	Untitled	
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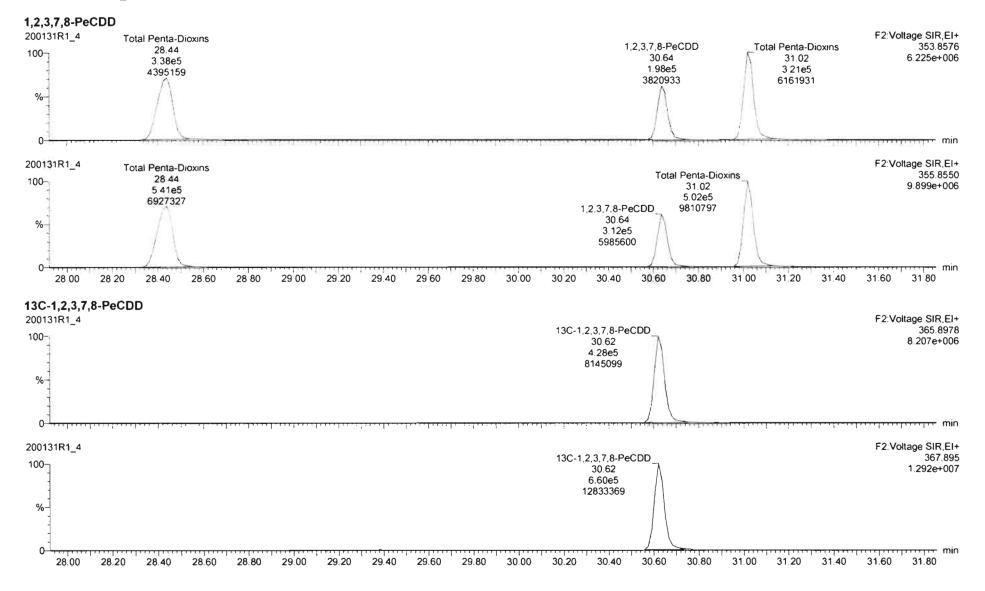


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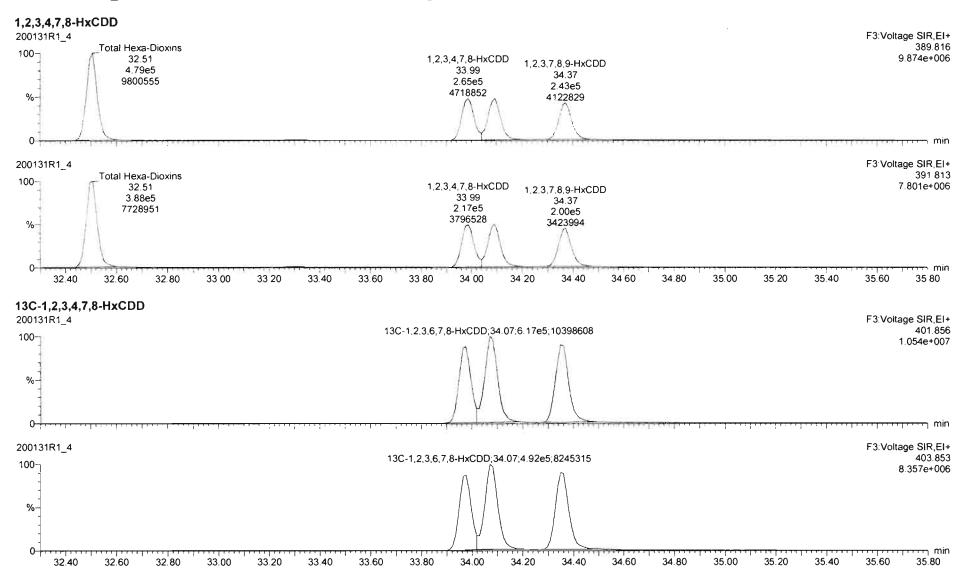
Quantify Sam Vista Analytica		MassLynx 4.1 SCN815	Page 41 of 78
Dataset:	Untitled		
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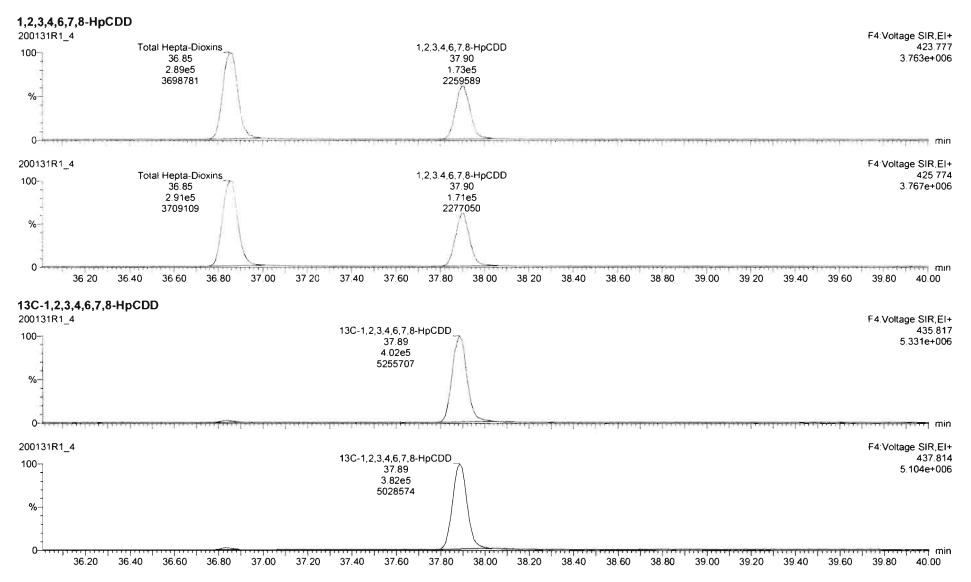
Quantify Sam Vista Analytica		Page 42 of 78
Dataset:	Untitled	
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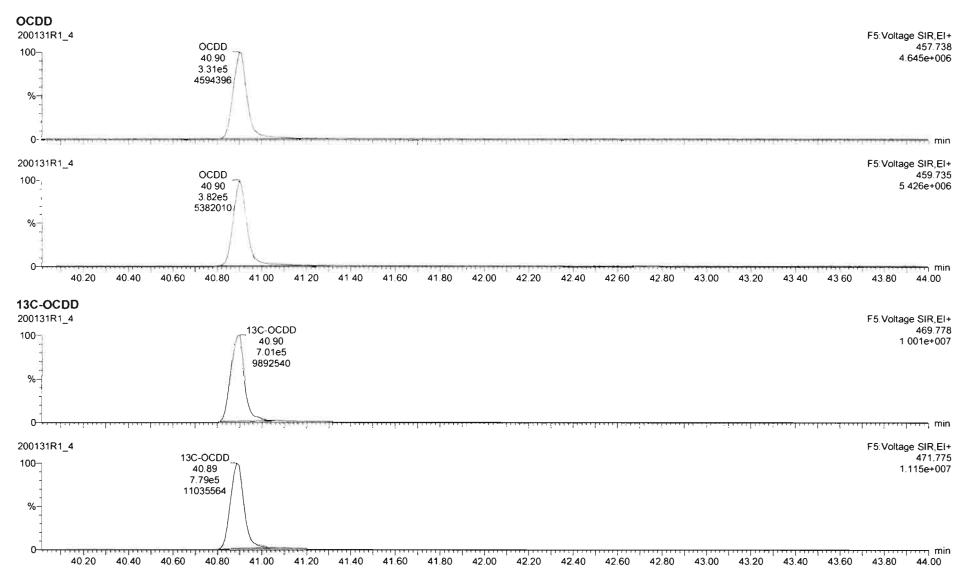
Quantify Sam Vista Analytica		Page 43 of 78
Dataset:	Untitled	
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Quantify Sam Vista Analytica		Page 44 of 78
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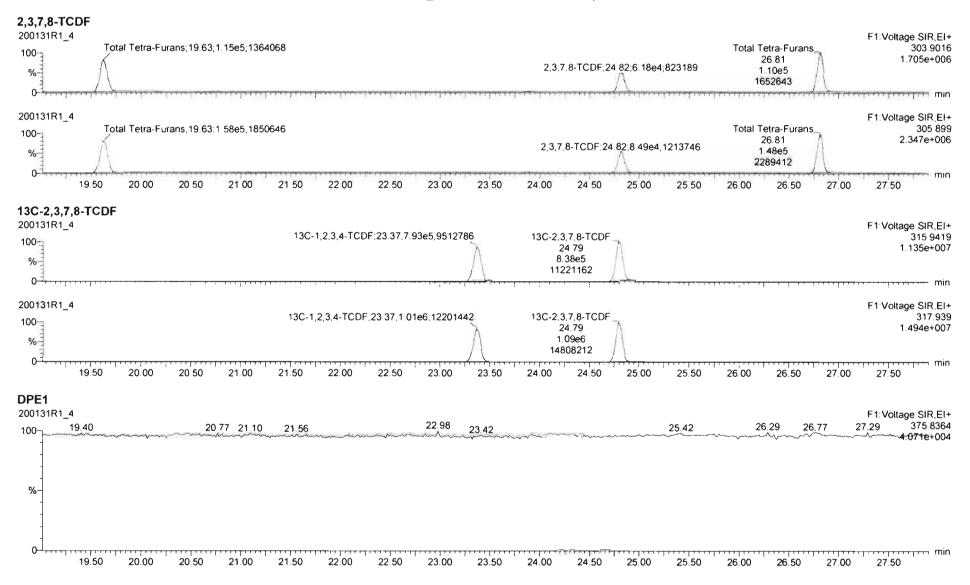


Quantify Sam Vista Analytica		Page 45 of 78
Dataset:	Untitled	
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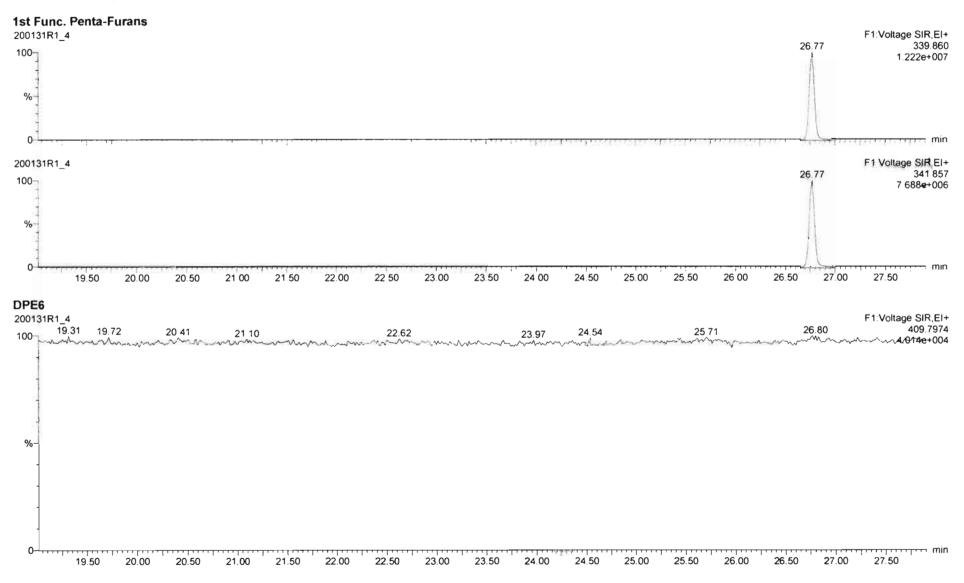


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Mame		Std. Conc %Dev %RSD RRF M RRF SD								
1 2.3.7.8-TCD0 2 1.2.3.7.8-PeCD0	25.70 0.783 NO 1.3903e5 1.4184e6 30.84 3.635 NO 5.0935e5 1.0879e6	10 000 -0.8 4 90 0 968 0 0484 50 000 -3.7 5.56 0.972 0 0541								
3 1.2,3.4.7 5-HxCDD	33.99 1.221 HO 4.6164e5 9.0754e5	50.000 -6.8 4.11 1.07 0.0440								
4 1 2 3 6 7 8-HxCDD	34 05 1 222 NO 4 8697e5 1 1096e8	50 000 -47 7 66 0 921 0 0706								
5 1.2.3.7.8.5-HxCDD	34 37 1 218 NO 4 4269e5 1 0181e6	50 000 -5.3 E 49 0 918 0 0596								
6 1.2.3.4.6.7.8-HpCD0 7 OCD0	37 50 1 012 NO 3 4452e5 7 6327e5 40.50 0.858 NO 6.7617e5 1.4803e6	50 000 -4 7 5.55 0 923 0 0512 100.000 -8 3 6.26 0.975 0.0610								
6 2.3.7.8-TCDF	24.82 0.728 NO 1.4671e5 1.9247e6	10 000 -5.0 6.54 0 802 0 0525								
9 1.2.3.7.6-PeCOF	29.37 1 536 HO 7 6585e5 1 7189e6	50 000 -1 7 6 14 0 907 0 0557								
10 2 3.4.7.8-PeCDF	30.33 1.524 HO 7.4186e5 1.6253e6	50.000 -4 1 7 47 0.952 0.0711								
11 1 2,3 4,7 8-HxCDF 12 1 2,3,6,7,8-HxCDF	33.13 1.162 NO 4.5328e5 1.0669e6 33.24 1.165 NO 5.0126e5 1.2327e6	50 000 -3 5 5 36 0 864 0 0463 50 000 -4.0 € 67 0 847 0 0565								
13 2 3.4.6.7 8-HxCDF	33.82 1 165 NO 4 8223e5 1 1100e6	50.000 -3.3 5.93 0.896 0.0533								
14 1.2.3 7.8 9-HxCDF	34.72 1.145 NO 3.9049e5 9.5691e5	50.000 .4 9 6.18 0.858 0.0530								
15 1.2.3.4.6 7 8-HpCDF	36 47 0 961 NO 2 287165 8 007765	50 000 -3.5 5.39 0.851 0.0459								
16 1.2.3.4.7 5.5-HpCDF 17 OCDF	36.50 0.968 HO 2.7377e5 5.7551e5 41.10 0.851 HO 6.4466e5 1.6735e6	50 060 -3 6 4 59 0 980 0 0486 100.000 -4 4 5 85 0 806 0 0471								
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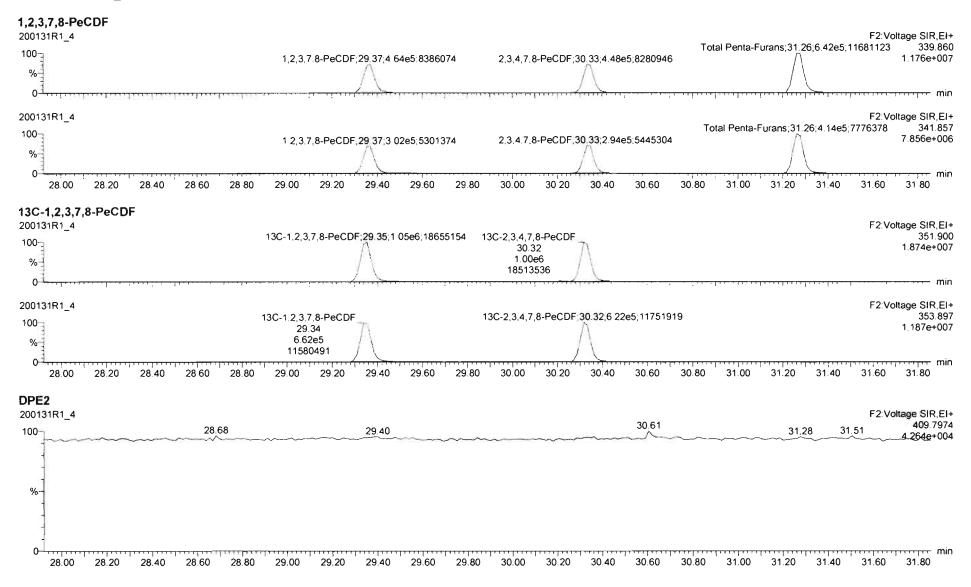
Quantify Sam Vista Analytica		Page 46 of 78
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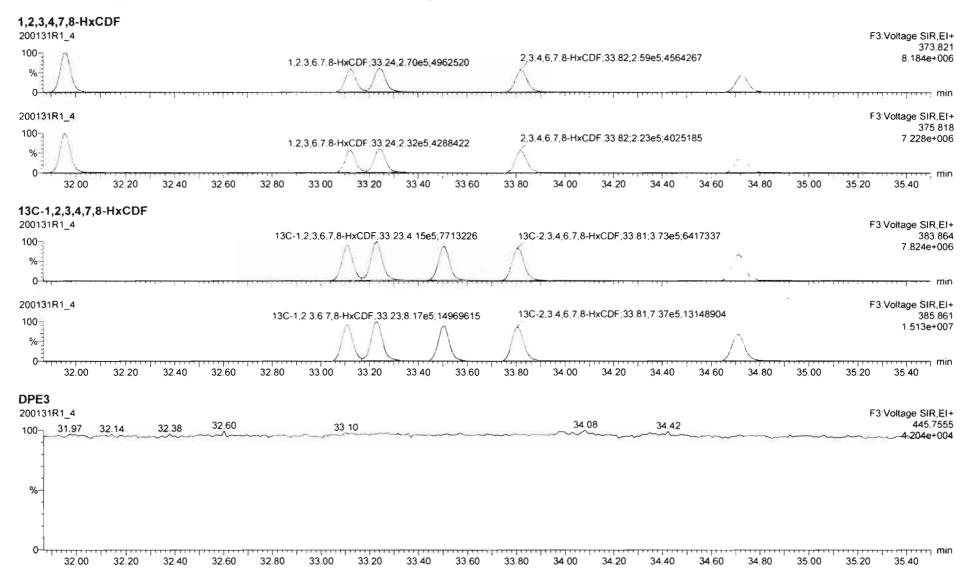
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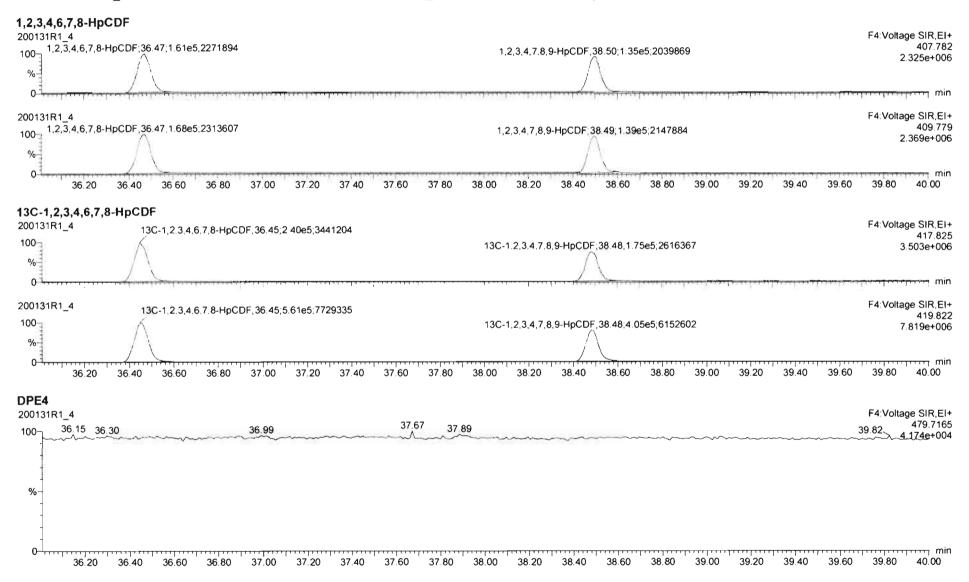
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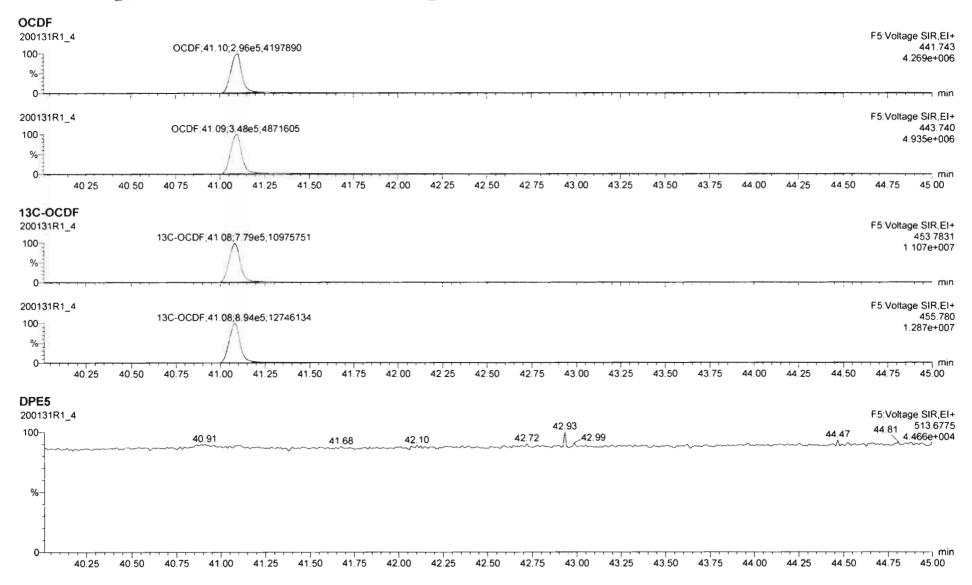
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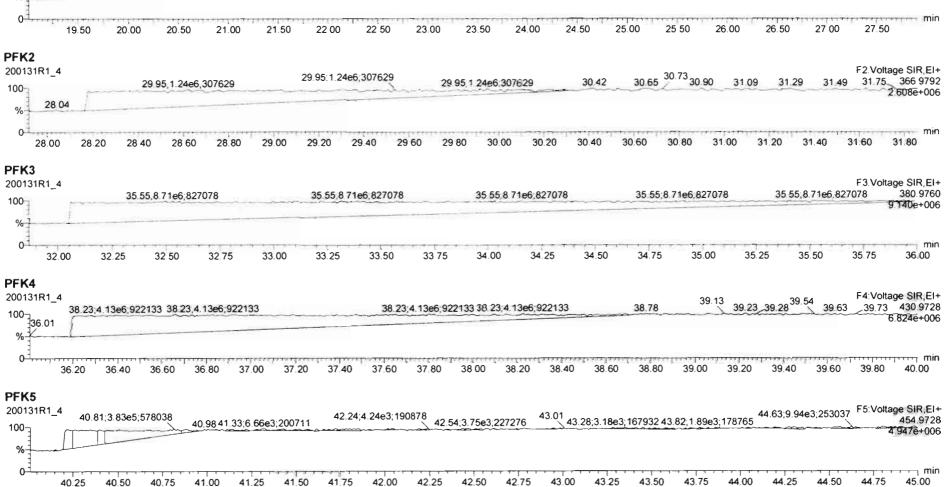
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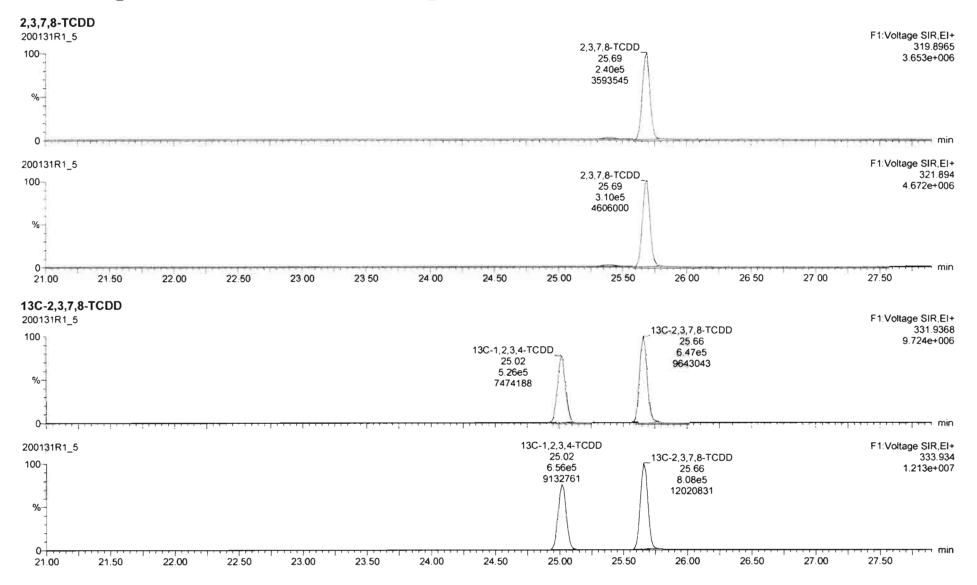
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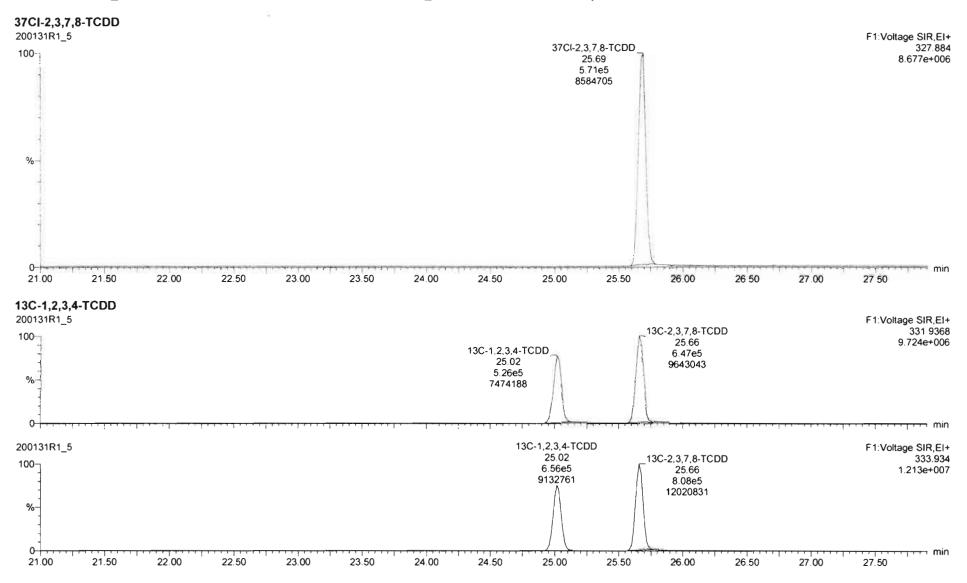
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PFK1 200131R1_4	22 67 23 88:5 3363 137952 26 05 27.04;4.98e3;165042	F1:Voltage SIR,EI+				
	1.07e4;135649 20,95;2,39e3;159315 22:08;3.66e3;144426 22:67,23.88;5.33e3;137952 24.09 24.6125.0625;12 26 05 27:04,4.96e3;165042	27.62 316.9824				



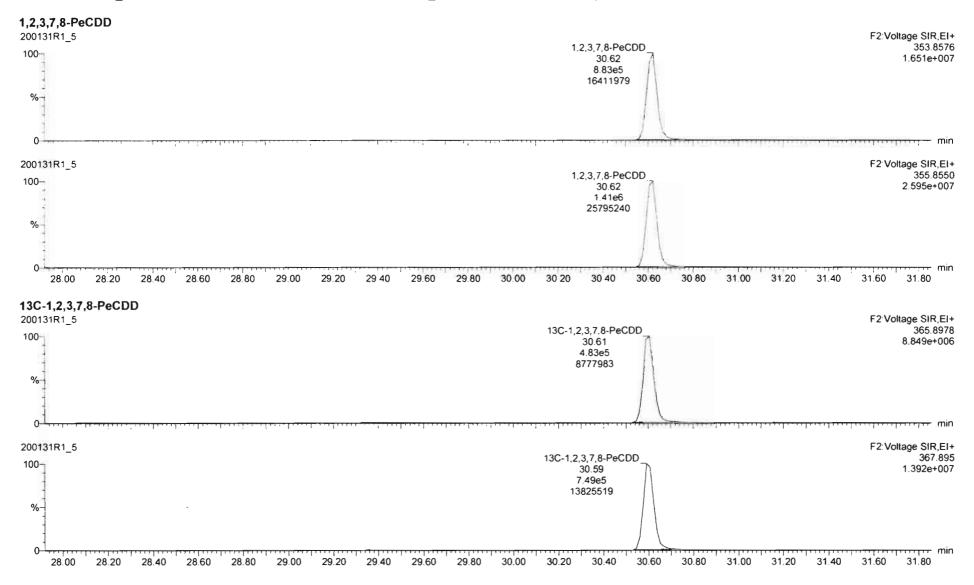
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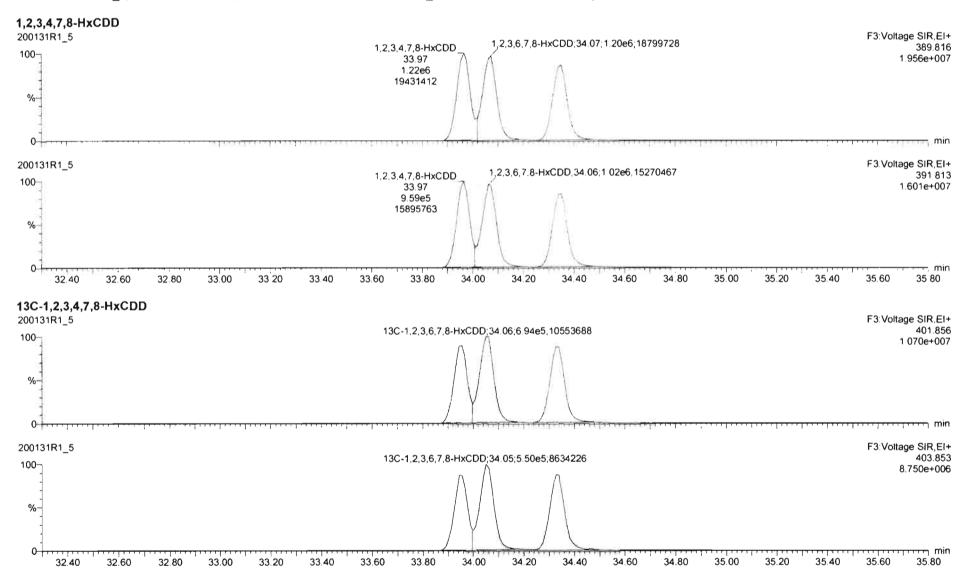
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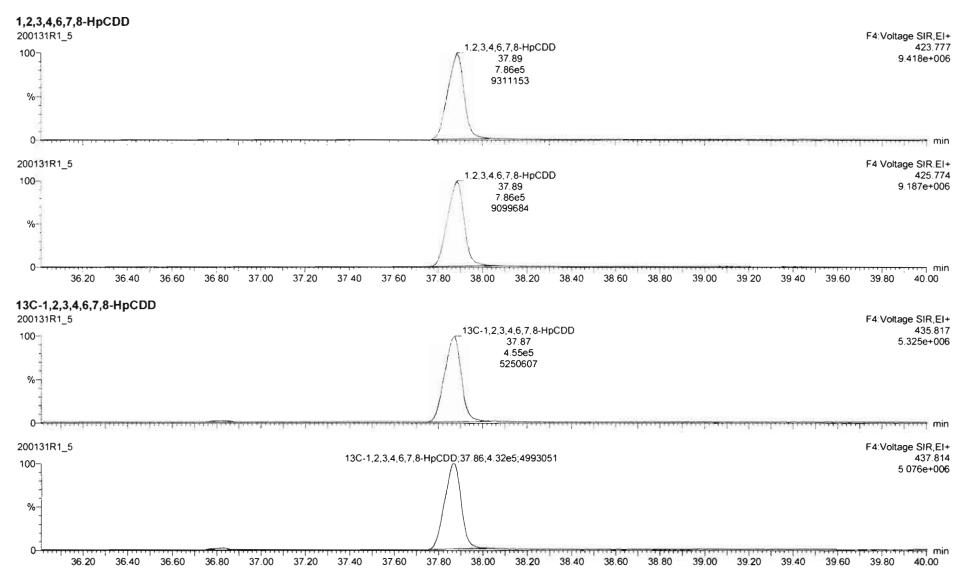
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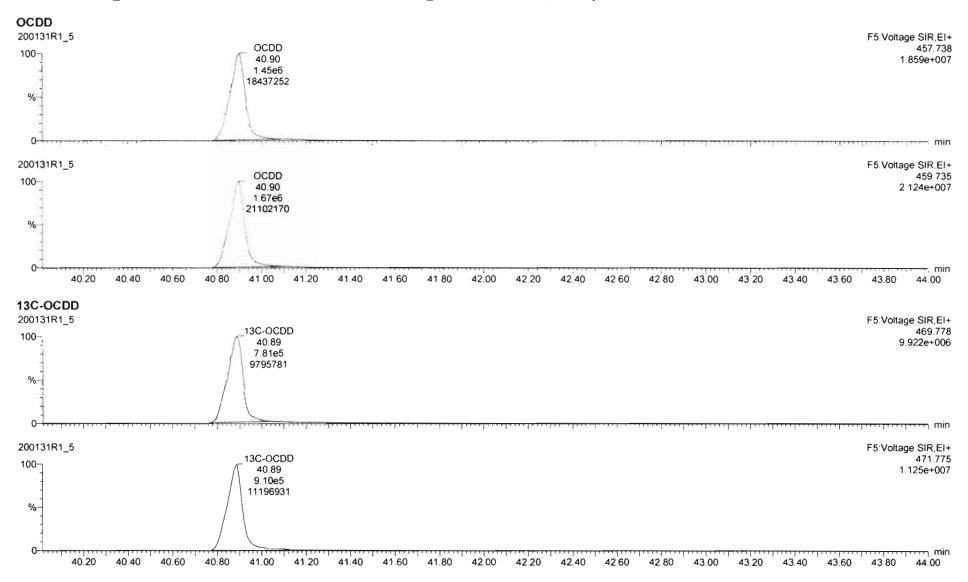
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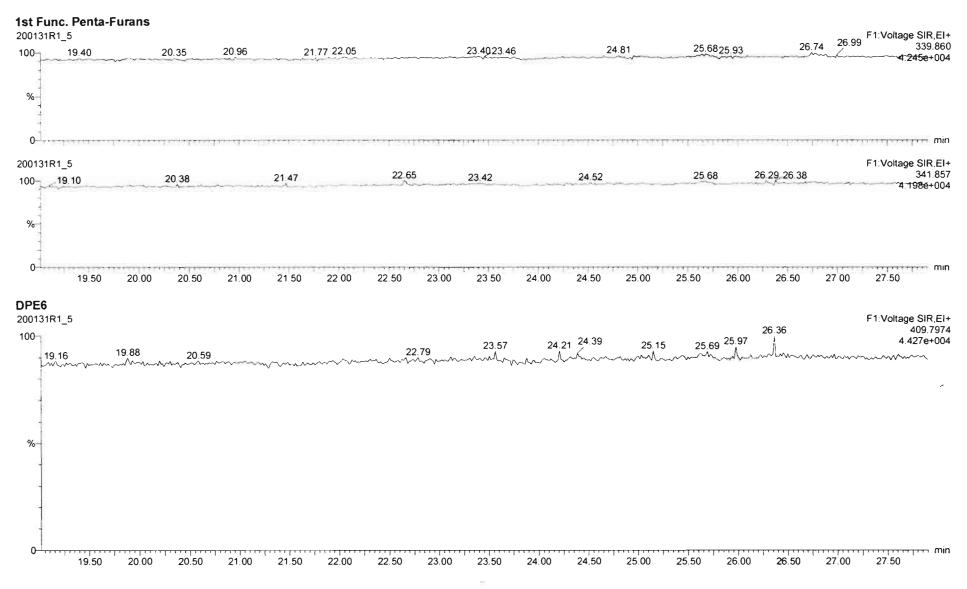
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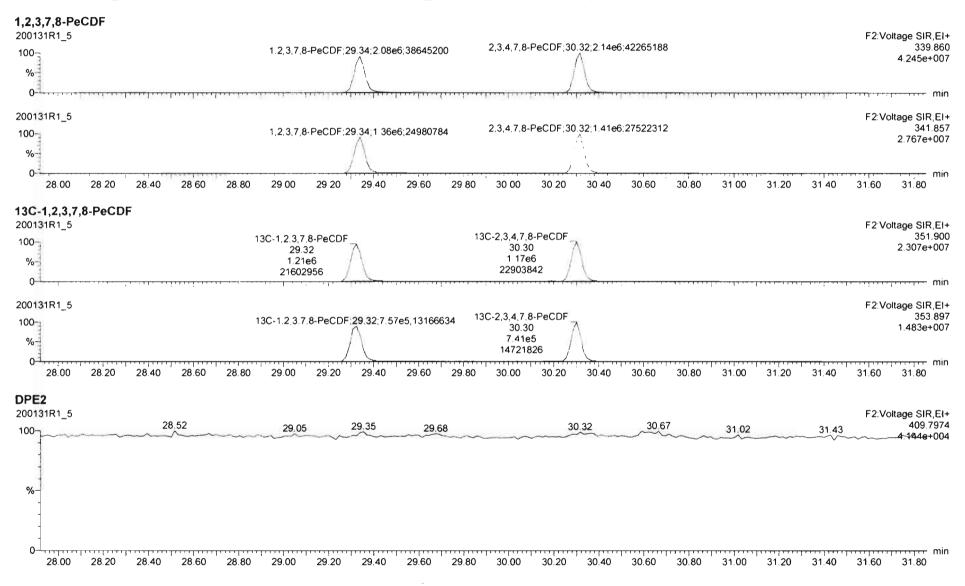
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<b>2,3,7,8-TCDF</b> 200131R1_5							2,3,7,8-TCDF 24.81 2.50e5 3444162	Δ		****	1	· · · · · · · · · · · · · · · ·	F1:Voltage SIR,EI+ 303.9016 3.506e+006
200131R1_5	0.0010.002010.002010.0000	100112042002	<ul> <li>DOMESTIC: 1</li> </ul>										F1:Voltage SIR,EI+
100- <u>-</u> %							2,3,7,8-TCDF 24.81 3.37e5 4599176	7					305.899 4.670e+006
0 19.50	20 00 20.50	21 00	21 50 22.0	00 22.50	23.00 23	3.50 24 0	0 24.50	25 00	25 50	26 00	26 50	27.00	27.50 min
<b>13C-2,3,7,8-TCDF</b> 200131R1_5 100- %			13C-1,2,3,4	-TCDF,23.36;7.§	96e5,9506886		-2,3,7,8-TCDF 24.78 8.56e5 11857751	1	· · · · · · · · · · · · · · · · · · ·		·····(+····		F1:Voltage SIR,EI+ 315,9419 1.195e+007
200131R1_5 100-			13C-1,2,3,4-	rcdf:23 36;1.00	0e6.11915071	13C	-2,3,7,8-TCDF 24.78	-7					F1:Voltage SIR,EI+ 317.939 1.548e+007
%					$\wedge$		1.11e6 15352163	A					
0 <del>1,,</del>	20.00 20.50	21.00	21.50 22.	00 22.50	23.00 2	3.50 24.0	0 24.50	25.00	25.50	26.00	26.50	27.00	27.50 min
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100- <u>19.12</u> %-		20.98	21.65	22.53	23.4	0 23.67		25.02	25.6	9 26.11	26.32	27.1(	
0 <sup>-1</sup>	20.00 20.50	21.00	21.50 22.	00 22.50	23.00 2	3.50 24.0	0 24.50	25.00	25.50	26.00	26.50	27.00	27.50 m

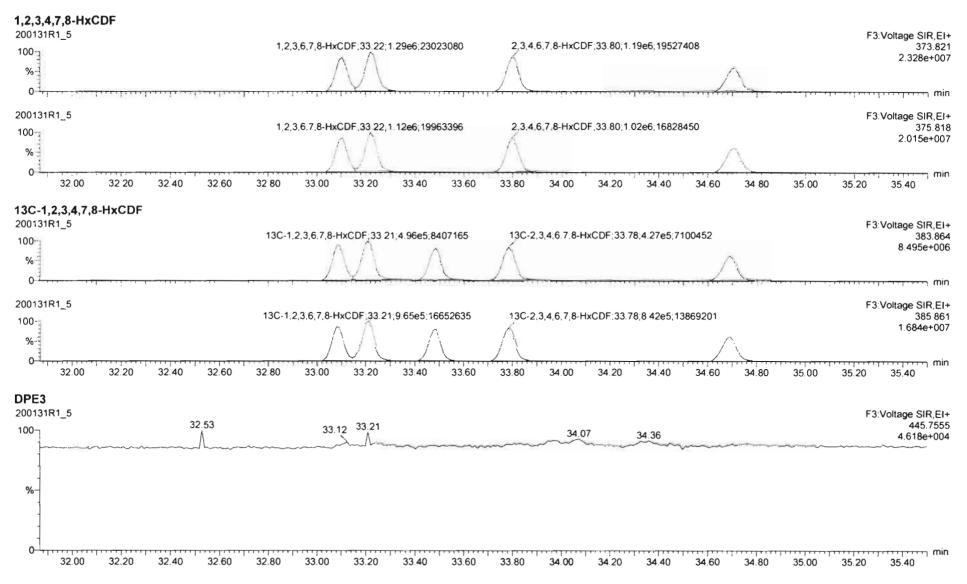
Quantify Sam Vista Analytica		Page 60 of 78
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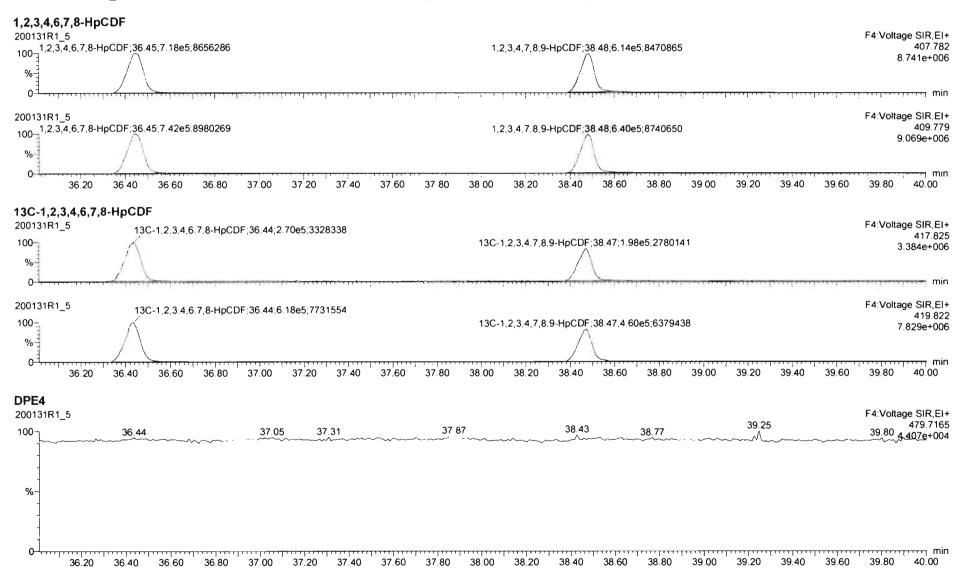
Quantify Sam Vista Analytica		Page 61 of 78
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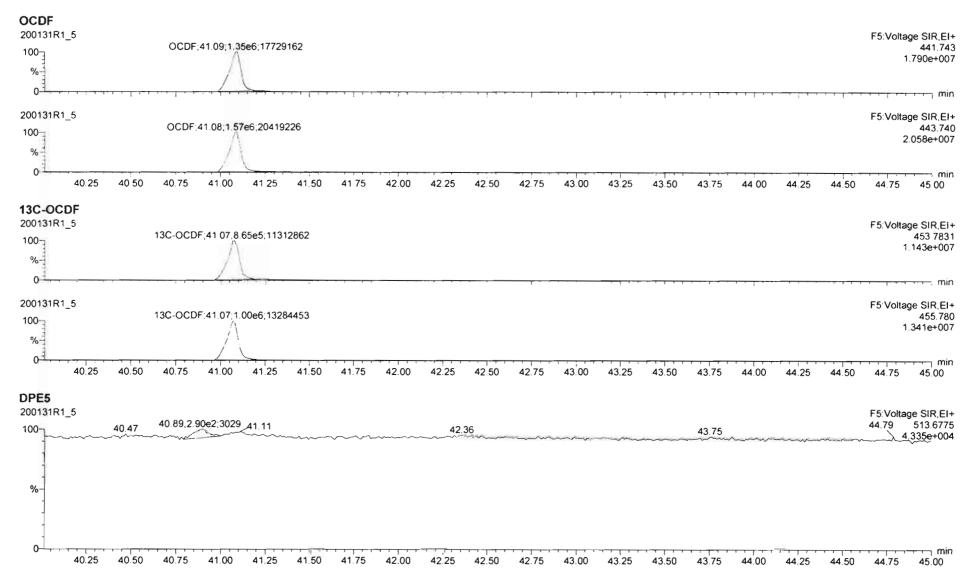
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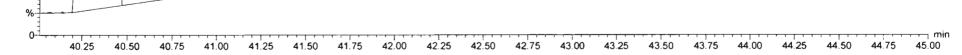
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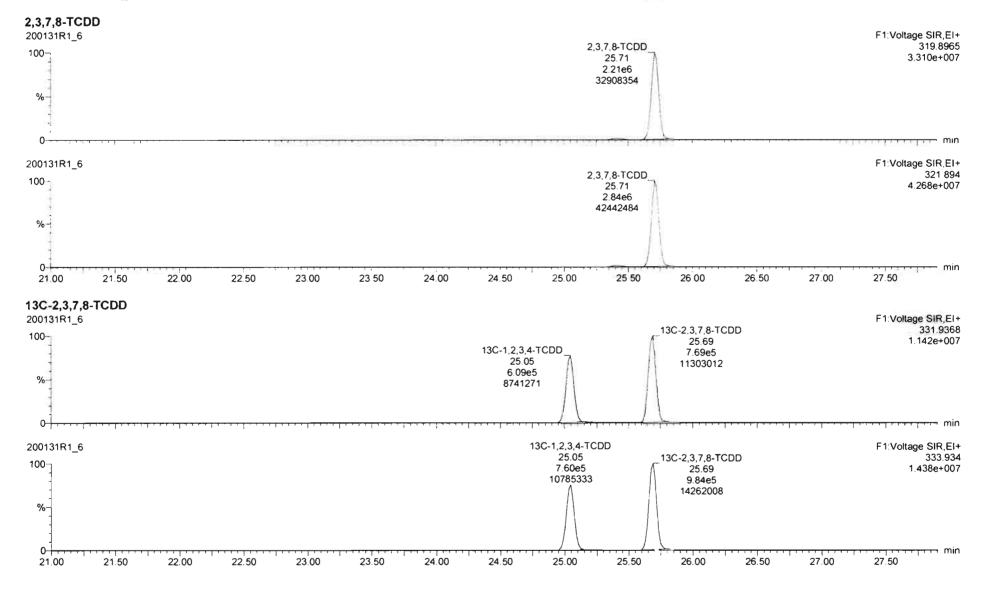
Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 64 of 78
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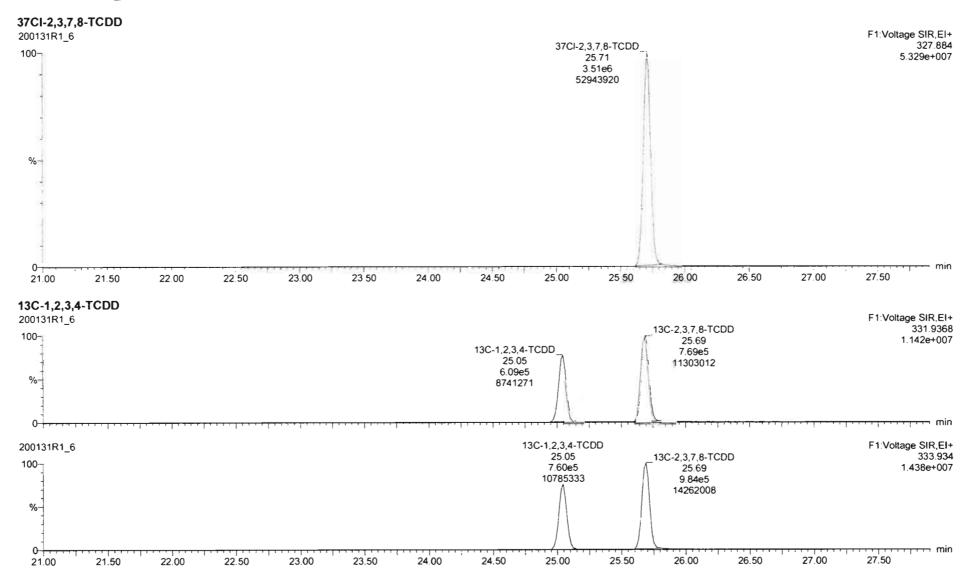
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lame: 20013 <i>°</i>	1R1_5, Date: 31-Jan-2020, Time: 19:57:17, ID: ST200131R1_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306
200131R1_5	23.10;3.69e3;97612 24.12;8.71e3;155747 25.15;3.84e3;114583 26.12;1.31e4;177731 27.28;4.70e3;131806 F1:Voltage SIR,1 316.98 21:502ë+0
0 <sup>1</sup>	
27.97 %	07e5:384577       29.37;9.07e5;384577       29.37;9.07e5;384577       29.83       30.04       30.10       30.38       30.59       30.79       31.09       31.29       31.45       31.58       366.97         24.21e+C       2         28.20       28.40       28.60       28.60       29.20       29.40       29.60       29.80       30.00       30.20       30.40       30.60       30.80       31.00       31.20       31.40       31.60       31.80
<b>FK3</b> 00131R1_5	F3:Voltage SIR, 34.57:5.73e6;669438 34.57:5.73e6;669438 34.57:5.75*5.57*5.57*5.57*5.57*5.57*5.57*5
0	32.25 32.50 32.75 33.00 33.25 33.50 33.75 34.00 34.25 34.50 34.75 35.00 35.25 35.50 35.75 36.00
<b>PFK4</b> 200131R1_5	F4: Voltage SIR, 36.76 36.91 37.34 37.60 37.79 37.89 38.22 38.46 38.53 38.71 38.78 39.17 39.40 39.57 39.82 430.97 6.995e+0
36.24 <b>PFK5</b> 200131R1_5 100_ <sup>40.35;4.8</sup>	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 38.80 39.00 39.20 39.40 39.60 39.80 40.00 1e5;1857532 40.84;3.40e5;532388 41.82;5.99e3;156997 42.41 42.59 42.85;2.42e3;216959 43.50;3.83e3;138876 43.91;2.05e3;167878 F5:Voltage SIR, 44.60 454.97 44.60 454.97 44.60 454.97 44.60 454.97 44.60 454.97 44.60 454.97 44.60 454.97 44.60 454.97 454.



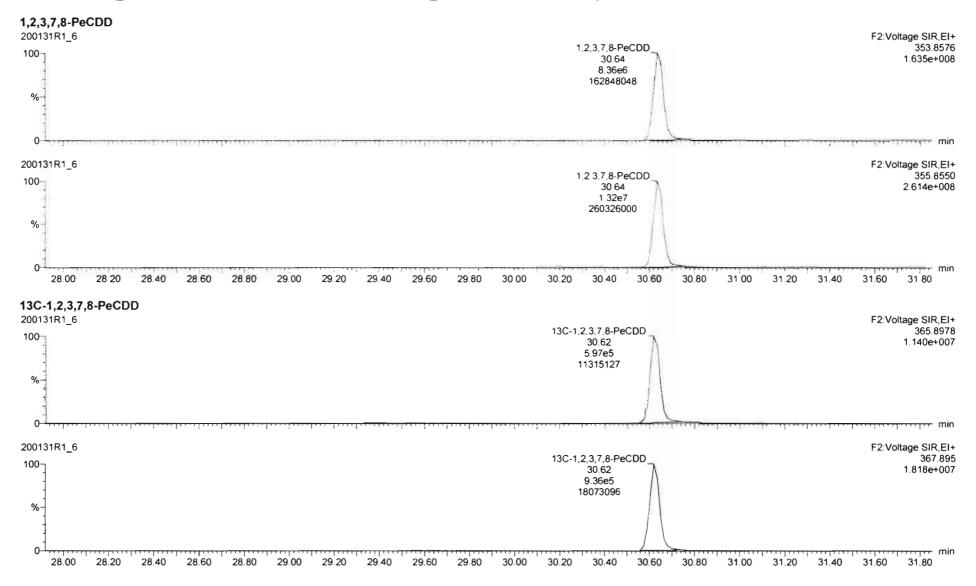
Quantify Sam Vista Analytica		Page 66 of 78
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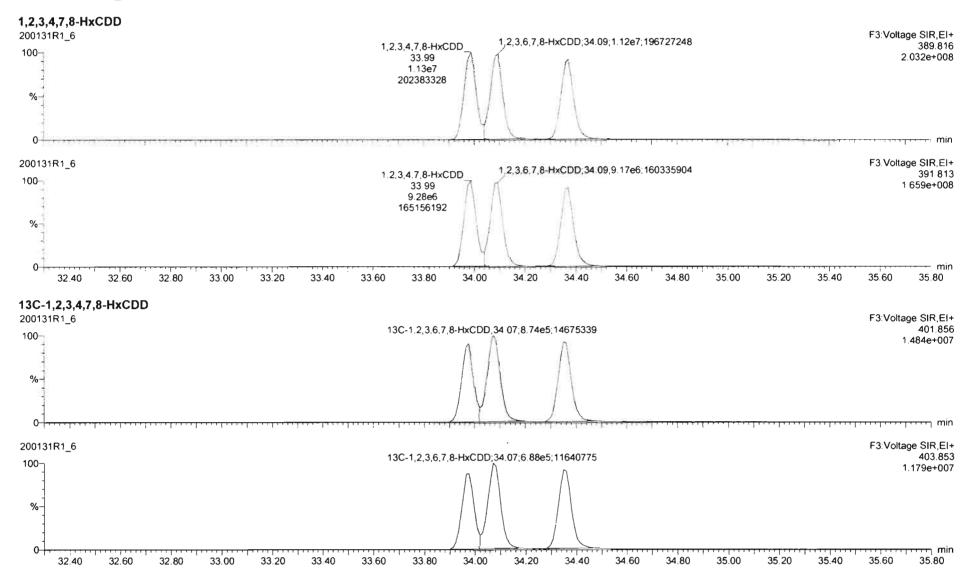
Quantify Sam Vista Analytica		Page 67 of 78
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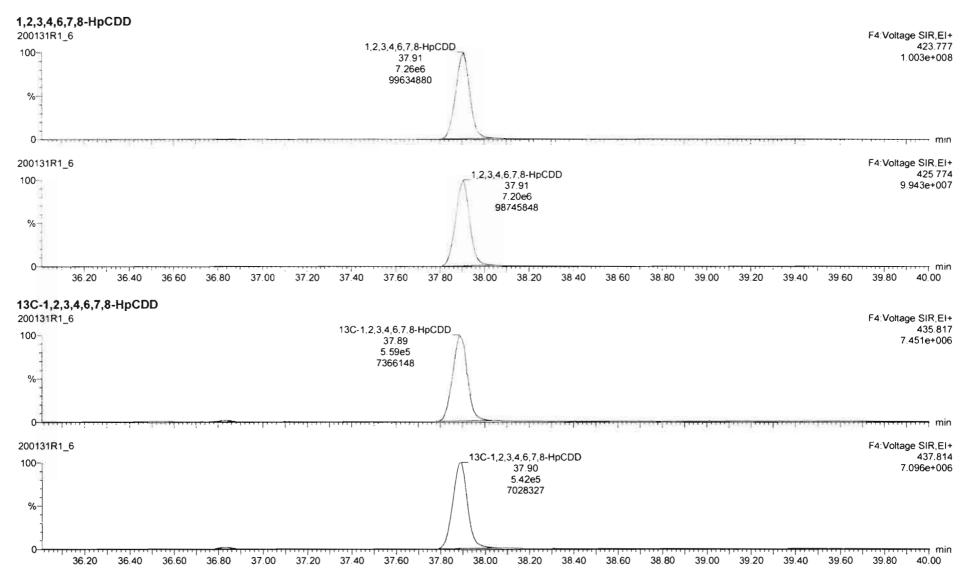
Quantify Sam Vista Analytica		Page 68 of 78
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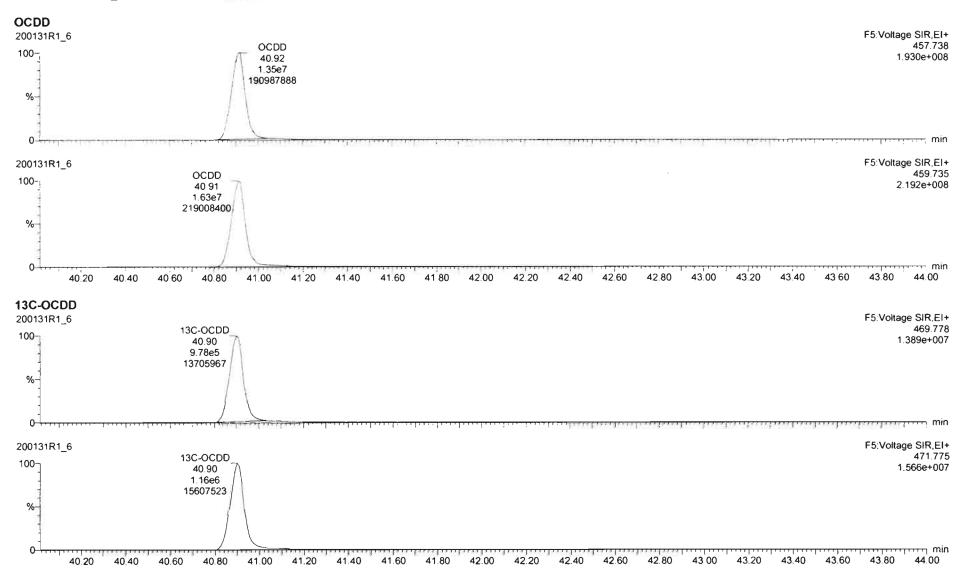
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Dataset:	Untitled	
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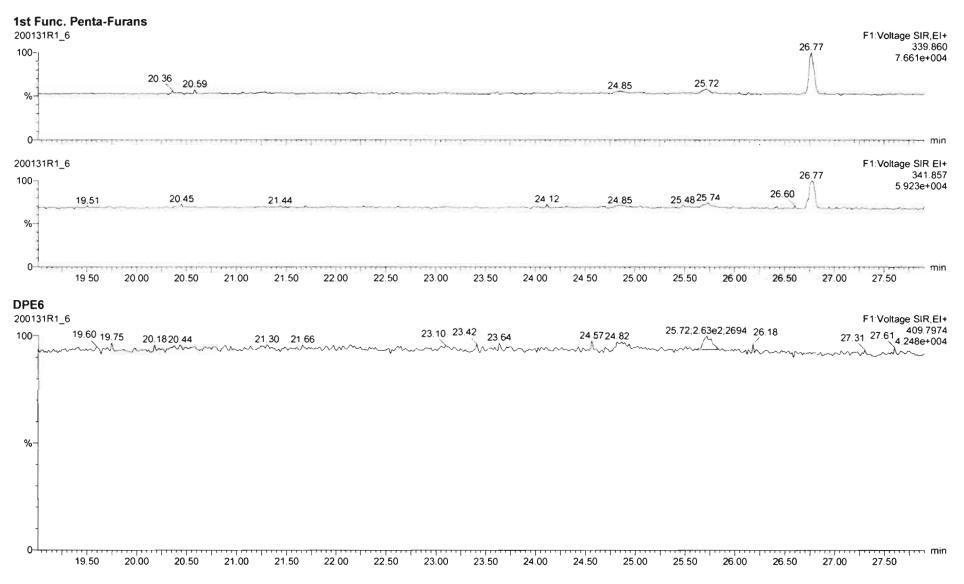
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<b>2,3,7,8-TCDF</b> 200131R1_6		2,3,7,8-TCDF 24.82 2 29e6 31371892	F1:Voltage SIR,EI+ 303.9016 3.156e+007
200131R1_6 100- %		2,3,7,8-TCDF 24.82 3,09e6 43081576	F1:Voltage SIR,EI+ 305.899 4.335e+007
0-3	21.00 21 50 22.00 22.50 23.00 23.50	24.00 24.50 25.00 25.50 26.00	26.50 27.00 27.50 min
<b>13C-2,3,7,8-TCDF</b> 200131R1_6 100	13C-1,2,3,4-TCDF;23.39;9.27e5;11205689	13C-2,3,7,8-TCDF 24,81 1.02e6 13924934	F1 Voltage SIR,EI+ 315.9419 1 406e+007
200131R1_6	13C-1,2,3,4-TCDF:23.39;1.17e6;13968381	13C-2,3,7,8-TCDF 24 81 1.32e6 18320000	F1:Voltage SIR,EI+ 317.939 1.850e+007
0 <sup>-3</sup>	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 min
<b>DPE1</b> 200131R1_6			F1:Voltage SIR,EI+
100 <u>19.61</u> 20.57	21.72 22.13 23.01 23.59	24.84 25.72	26.65 26.95 375.8364 4.274e+004

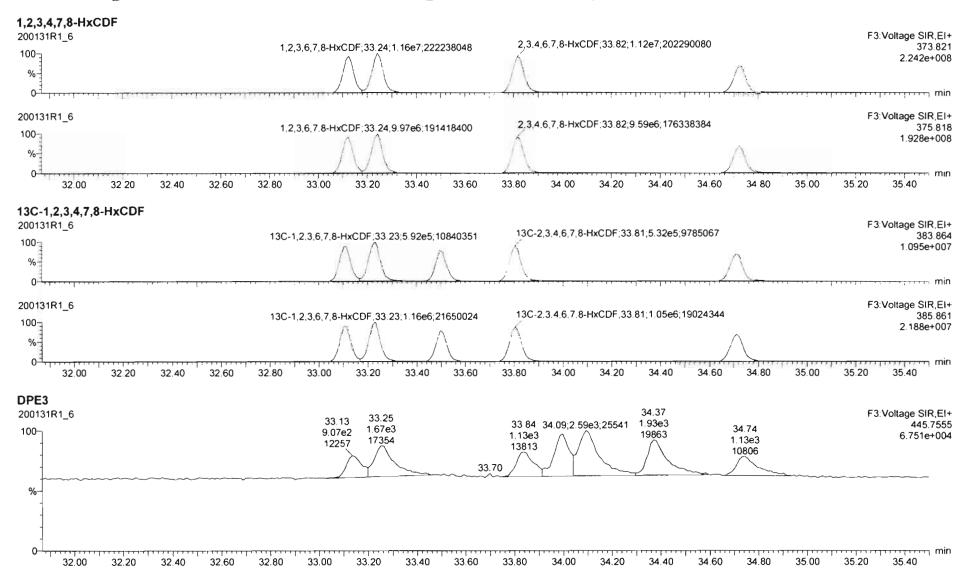
Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 73 of 78
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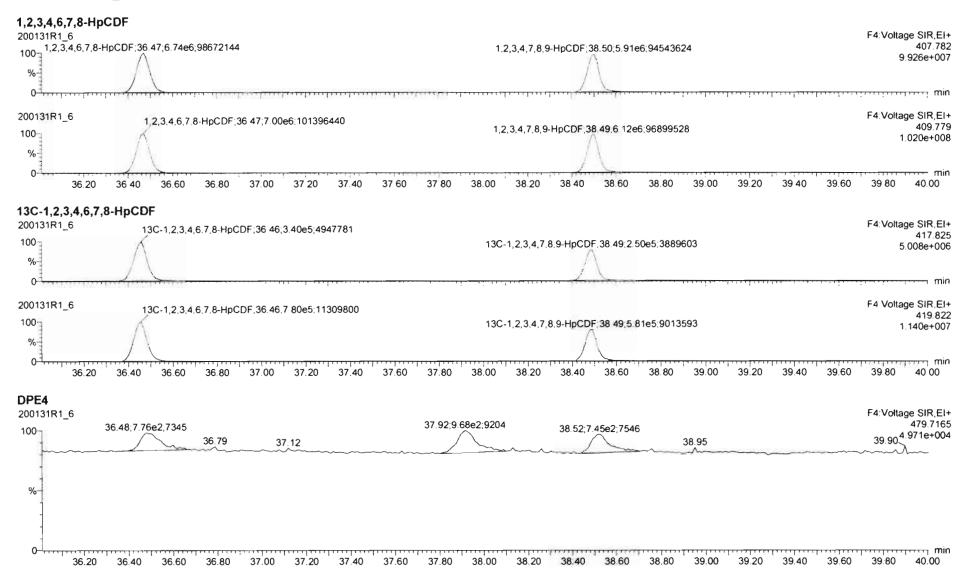
Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 74 of 78
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<b>1,2,3,7,8-PeCDF</b> 200131R1_6 <sup>100</sup> %	1,2,3,7,8-PeCDF 29,37 1.95e7 366914400	2.3,4,7,8-PeCDF 30.33 1.98e7 382973920	****	F2:Voltage SIR,EI+ 339.860 3.852e+008
200131R1_6 100- %	1.2.3.7.8-PeCDF 29 37 1 29e7 238063904	2,3,4,7,8-PeCDF 30,33 1 29e7 254964416		F2:Voltage SIR,EI+ 341.857 2.564e+008
28.00 28 20 28 40 28.60 28.80 29.00	29.20 29.40 29.60 29.80	30 00 30 20 30.40 30.60 30.8	80 31.00 31.20 31.40	31.60 31.80 min
<b>13C-1,2,3,7,8-PeCDF</b> 200131R1_6 13C-1,2,3,7, 29,3 % 0 	5 7	13C-2,3,4,7.8-PeCDF;30.33;1 45e6;27212746		F2.Voltage SIR,EI+ 351.900 2.744e+007
%-	8-PeCDF;29.35:9.45e5;17185736	13C-2,3,4,7,8-PeCDF;30.32;8.96e5;16648762		F2 Voltage SIR EI+ 353.897 1.728e+007
28.00 28.20 28.40 28.60 28.80 29.00	29.20 29.40 29.60 29.80	30.00 30.20 30.40 30.60 30.8	80 31.00 31.20 31.40	31.60 31.80
DPE2 200131R1_6 100-	29 37 6.21e2 7852	30.35;1.07e3;9616 30.65;1.30e3;1205	31.38	F2:Voltage SIR,EI+ 409.7974 5.183e+004
%-				
				min

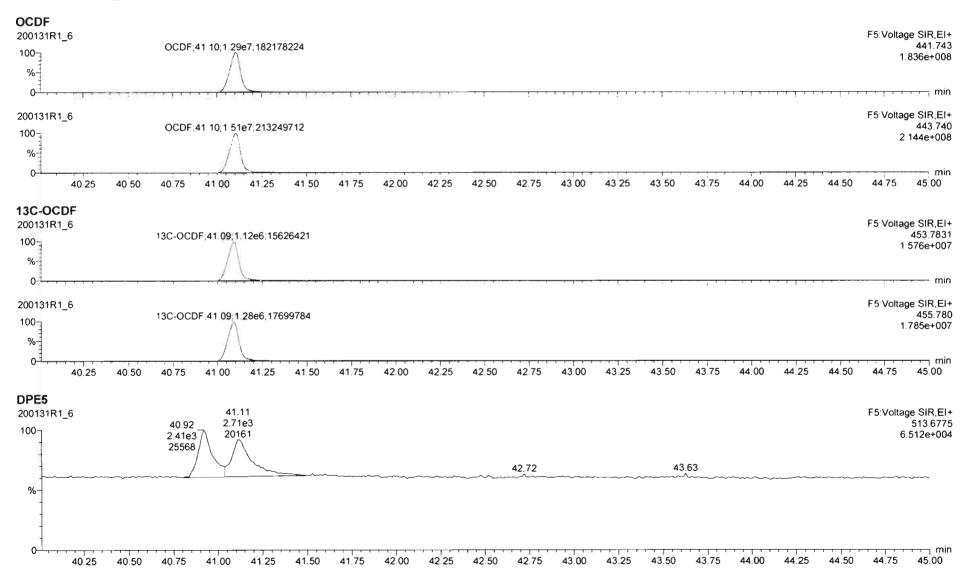
Quantify Sam Vista Analytica		Page 75 of 78
Dataset:	Untitled	
Last Altered: Printed:	Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time	



Quantify Sam Vista Analytica		Page 76 of 78
Dataset:	Untitled	
Last Altered: Printed:	Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time	



Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 77 of 78
Dataset:	Untitled		
Last Altered: Printed:		uary 02, 2020 11:06:20 AM Pacific Standard Time uary 02, 2020 11:06:35 AM Pacific Standard Time	

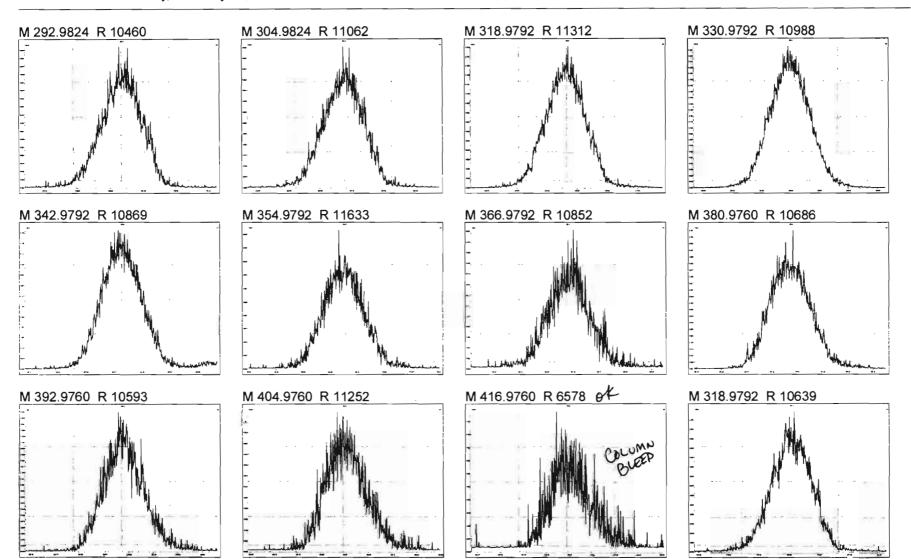


	aple Report MassLynx 4.1 SCN815 al Laboratory	Page 78 of
ataset:	Untitled	
ist Altered: inted:	Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time	
	1R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307	
F <b>K1</b> 0131R1_6	20.33;2.28e3;116369 21.19 22.10;6.64e3;155396 23.06;5.80e3;156329 23.92;1.80e3;120878 24.75 25.29;3.26e3;139439 27.19;7.02e3;185762	F1:Voltage SIR, 27.52、 316.9
	20.33;2.28e3;116369 21.19 23.92;1.80e3;120878 25.29;3.26e3;139439 24.10;101022	27.52 316.9 2.534e+
0	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
•K2	50 20.00 20.50 21.00 21.50 22.00 22.50 25.00 25.50 24.00 25.50 25.50 25.50 26.00 26.50 27.00	27 50
0131R1_6	30.54;1.38e6;237338 30.54;1.38e6;237338 30.54;1.38e6;237338 30.54;1.38e6;237338 30.54;1.38e6;237338 30.83 31.02 31.14 31 29 31.41	F2:Voltage SIR 31.61 366.9
00- 27.95		2.390e+
0		
	28.20 28.40 28.60 28.80 29.00 29.20 29.40 29.60 29.80 30.00 30.20 30.40 30.60 30.80 31.00 31.20 31.40 3	31.60 31.80
FK3		
0131R1_6	33.72.5.64e6;1816862 34.72 34.99 35.32 3	
0-	33.72;5.64e6;1816862 33.72;5.64e6;1816862 33.72;5.64e6;1816862 33.72;5.64e6;1816862 34.72 34.99 35.32 3	35.82 380.9
00- %- 0	33.72,5.64e6,1816862 33.72,5.64e6,1816862 33.72,5.64e6,1816862 34.72 34.99 35.32 3	35.82 380.9 8.968e+
0	33.72;5.64e6;1816862 33.72;5.64e6;1816862 33.72;5.64e6;1816862 34.72 34.99 35.32 3	35.82 380.9 8.968e+
00- %- 0	33.72,5.64e6,1816862 33.72,5.64e6,1816862 33.72,5.64e6,1816862 34.72 34.99 35.32 3 32.25 32.50 32.75 33.00 33.25 33.50 33.75 34.00 34.25 34.50 34.75 35.00 35.25 35.50	35 82 380.9 8.968e+( 35.75 36.0 F4:Voltage SIR,
0 <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b>	32.25 32.50 32.75 33.00 33.25 33.50 33.75 34.00 34.25 34.50 34.75 35.00 35.25 35.50	8.968e+(
0 32.00 <b>FK4</b> 0131R1_6	33.72,5.64e6,1816862 33.72,5.64e6,1816862 33.72,5.64e6,1816862 34.72 34.99 35.32 3 32.25 32.50 32.75 33.00 33.25 33.50 33.75 34.00 34.25 34.50 34.75 35.00 35.25 35.50	35.75 36.0 F4:Voltage SIR, 39.87 430.9 6.850ē+t
0 <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>6</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b> <b>7</b>	33.72;5:64e6;1816862 33.72;5:64e6;1816862 33.72;5:64e6;1816862 34.72 34.99 35.32 3 32.25 32.50 32.75 33.00 33.25 33.50 33.75 34.00 34.25 34.50 34.75 35.00 35.25 35.50 38.01;3.46e6;783341 38.01;3.46e6;783341 38.01;3.46e6;783413	15 82 380.9 8.968e+( 35.75 36.0 F4:Voltage SIR, 39.87 430.9 6.850e+(
0 <b>5K4</b> 0 32.00 <b>5K4</b> 0 131R1_6 0 	33.72;5:64e6;1816862 32.25 32.50 32.75 33.00 33.72;5:64e6;1816862 33.72;5:64e6;1816862 34.72 34.99 35.32 34.72 34.99 35.32 35.32 35.50 35.25 35.50 38.01;3.46e6;783341 38.00 38.00 38.20 38.40 38.60 38.80 39.00 39.20 39.40	35     82     380.9'       8.968e+(       35.75     36.0'       7     430.9'       6.850e+(       39.87     430.9'       6.850e+(       39.80     40.0(       F5: Voltage SIR,
0 32.00 <b>FK4</b> 0131R1_6 0 36.2	33.72;5.64e6;1816862 34.72 34.99 35.32 35.90	35.75 36.0 F4:Voltage SIR, 39.87 430.9 6.850e+(
<b>FK4</b> 0 <sup>131R1_6</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 36.2 <b>FK5</b> 0131R1_6	33.72;5:64e6;1816862 32.25 32.50 32.75 33.00 33.72;5:64e6;1816862 33.72;5:64e6;1816862 34.72 34.99 35.32 34.72 34.99 35.32 35.32 35.50 35.25 35.50 38.01;3.46e6;783341 38.00 38.00 38.20 38.40 38.60 38.80 39.00 39.20 39.40	35     82     380.9       8.968e+       35.75     36.0       F4: Voltage SIR, 39.87     430.9       6.850e+       39.80     40.0       F5: Voltage SIR, 64

MassLynx 4.1 SCN815

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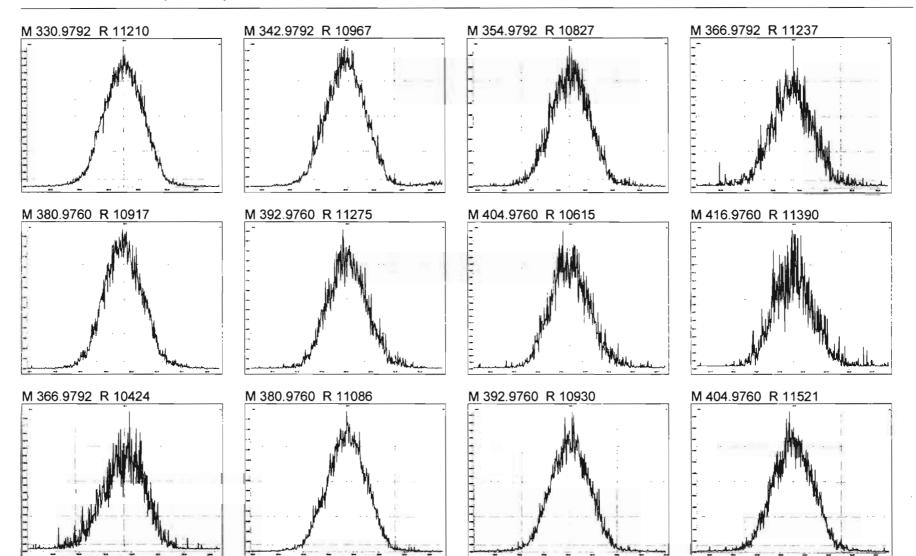




MassLynx 4.1 SCN815

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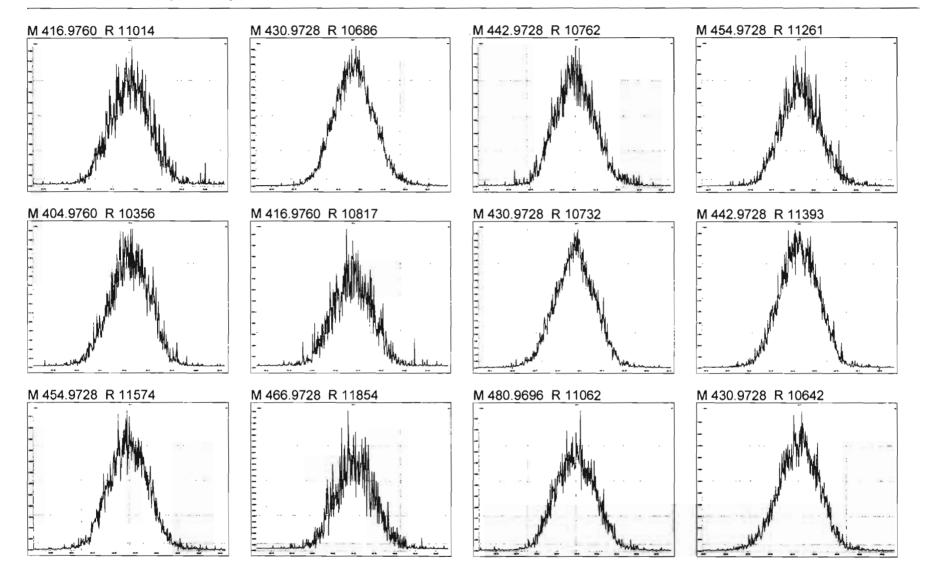
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MassLynx 4.1 SCN815

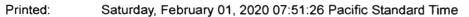
Page 3 of 4

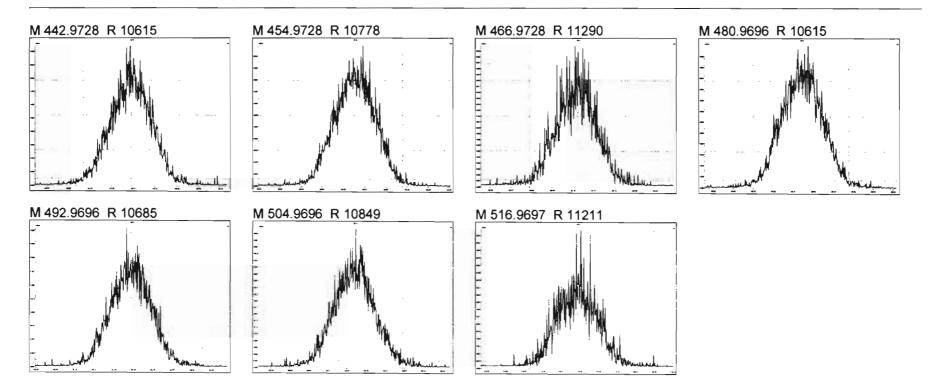




MassLynx 4.1 SCN815

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Quantify Sample Summary Report MassLynx 4.1 SCN815 Vista Analytical Laboratory

#### U:\VG12.PRO\Results\200131R1\200131R1-8.qld Dataset:

Last Altered:	Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed:	Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

GPB 02/02/2020 C7 02/04/2020

#### Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

State of the	# 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	1.56e5	0.77	NO	0.988	1.000	25.691	25.69	1.001	1.001	10.621	106	0.0312	10.6
2	2 1.2,3,7,8-PeCDD	6.38e5	0.61	NO	0.972	1.000	30.627	30.62	1.001	1.001	53.028	106	0.0615	53.0
3	3 1.2,3,4,7,8-HxCDD	5.69e5	1.22	NO	1.07	1.000	33.966	33.97	1.000	1.000	53.501	107	0.0848	53.5
4	4 1.2,3,6,7,8-HxCDD	6.05e5	1.23	NO	0.921	1.000	34.062	34.07	1.000	1.000	57.295	115	0.0864	57.3
5	5 1,2,3,7.8,9-HxCDD	5.57e5	1.21	NO	0.918	1.000	34.373	34.35	1.001	1.000	55.837	112	0.0961	55.8
6	6 1.2.3.4,6.7,8-HpCDD	4.04e5	1.06	NO	0.923	1.000	37.886	37.90	1.000	1.001	54.330	109	0.220	54.3
7	7 OCDD	7.74e5	0.92	NO	0.975	1.000	40.878	40.89	1.000	1.000	108.30	108	0.139	108
8	8 2.3.7.8-TCDF	1.73e5	0.74	NO	0.802	1.000	24.802	24.79	1.001	1.001	10.751	108	0.0280	10.8
9	9 1,2,3,7,8-PeCDF	9.70e5	1.53	NO	0.907	1.000	29.345	29.34	1.001	1.001	54.081	108	0.0886	54.1
10	10 2,3,4,7,8-PeCDF	1.11e6	1.53	NO	0.952	1.000	30.331	30.32	1.001	1.001	60.939	122	0.0845	60.9
11	11 1.2.3.4.7,8-HxCDF	5.97e5	1.15	NO	0.862	1.000	33.093	33.10	1.000	1.000	56.486	113	0.117	56.5
12	12 1.2,3.6,7,8-HxCDF	6.65e5	1.16	NO	0.841	1.000	33.220	33.22	1.000	1.000	55.919	112	0.104	55.9
13	13 2,3,4,6,7.8-HxCDF	5.96e5	1.17	NO	0.898	1.000	33.819	33.81	1.001	1.001	53.809	108	0.119	53.8
14	14 1.2.3.7.8,9-HxCDF	4.82e5	1.16	NO	0.858	1.000	34.690	34.71	1.000	1.001	54.259	109	0.175	54.3
15	15 1.2.3.4.6,7,8-HpCDF	4.07e5	0.95	NO	0.851	1.000	36.473	36.45	1.001	1.000	56.639	113	0.174	56.6
16	16 1.2.3,4,7,8,9-HpCDF	3.25e5	0.98	NO	0.980	1.000	38.471	38.48	1.000	1.000	55.517	111	0.189	55.5
17	17 OCDF	7.18e5	0.86	NO	0.806	1.000	41.070	41.08	1.000	1.000	105.51	106	0.148	106
18	18 13C-2,3,7,8-TCDD	1.49e6	0.78	NO	1.20	1.000	25.660	25.66	1.026	1.026	92.060	92.1	0.106	
19	19 13C-1,2,3,7,8-PeCDD	1.24e6	0.64	NO	0.967	1.000	30.395	30.61	1.215	1.223	95.149	95.1	0.134	
20	20 13C-1,2,3,4,7,8-HxCDD	9.93e5	1.27	NO	0.874	1.000	33.955	33.96	1.014	1.014	87.678	87.7	0.159	
21	21 13C-1,2,3,6,7,8-HxCDD	1.15e6	1.25	NO	1.05	1.000	34.056	34.06	1.017	1.017	84.618	84.6	0.133	1
22	22 13C-1,2,3,7,8,9-HxCDD	1.09e6	1.25	NO	0.974	1.000	34.357	34.34	1.026	1.025	86.118	86.1	0.143	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.06e5	1.06	NO	0.747	1.000	37.907	37.87	1.132	1.131	83.254	83.3	0.245	
24	24 13C-OCDD	1.47e6	0.89	NO	0.707	1.000	40.787	40.88	1.218	1.221	160.15	80.1	0.173	
25	25 13C-2,3,7,8-TCDF	2.01e6	0.78	NO	1.07	1.000	24.842	24.78	0.993	0.990	91.210	91.2	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.98e6	1.58	NO	1.00	1.000	29.170	29.32	1.166	1.172	95.322	95.3	0.190	
27	27 13C-2,3,4,7,8-PeCDF	1.91e6	1.60	NO	0.962	1.000	30.120	30.30	1.204	1.211	96.164	96.2	0.198	
28	28 13C-1,2,3,4,7,8-HxCDF	1.23e6	0.52	NO	1.05	1.000	33.085	33.09	0.988	0.988	90.119	90.1	0.194	1
29	29 13C-1,2,3,6,7,8-HxCDF	1.41e6	0.50	NO	1.19	1.000	33.185	33.21	0.991	0.992	91.687	91.7	0.171	1
30	30 13C-2,3,4,6,7,8-HxCDF	1.23e6	0.51	NO	1.07	1.000	33,791	33.78	1.009	1.009	89.274	89.3	0.190	
31	31 13C-1,2,3,7,8,9-HxCDF	1.04e6	0.51	NO	0.922	1.000	34.692	34.69	1.036	1.036	86.700	86.7	0.220	

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

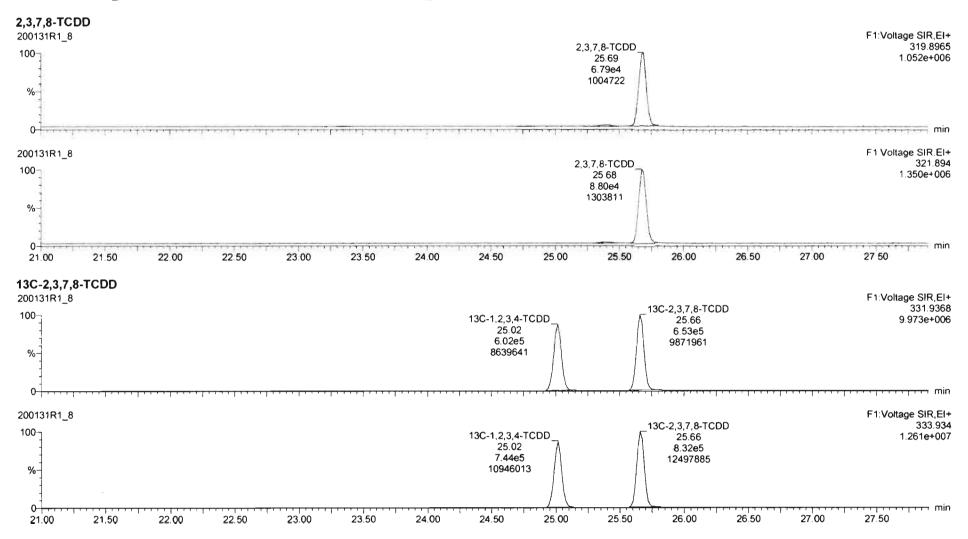
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Printed:	Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

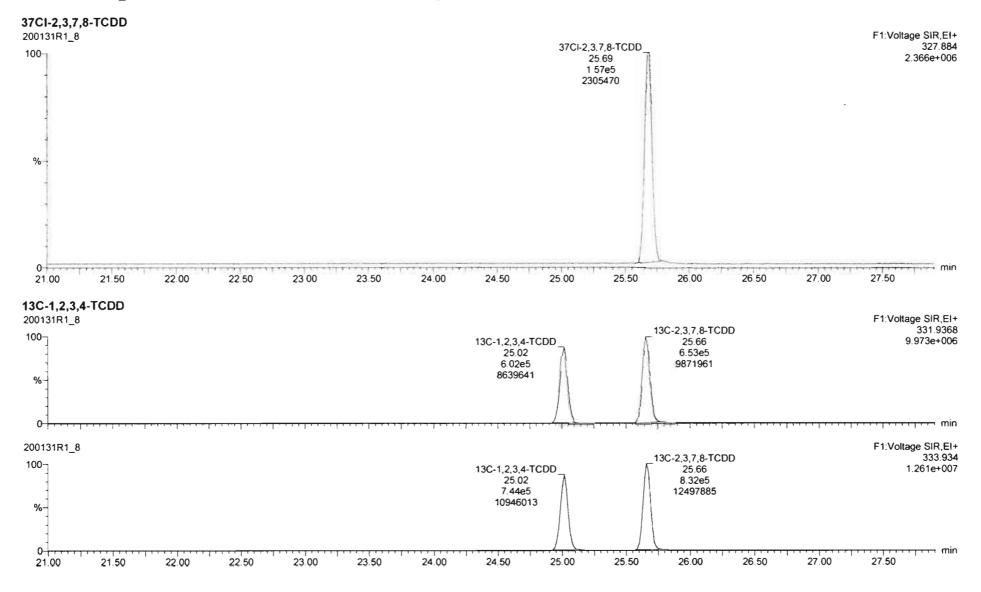
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32	32 13C-1,2,3,4,6,7,8-HpCDF	8.43e5	0.43	NO	0.767	1.000	36.433	36.44	1.088	1.088	84.846	84.8	0.232	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.98e5	0.43	NO	0.552	1.000	38.443	38.47	1.148	1.149	83.515	83.5	0.322	
34	34 13C-OCDF	1.69e6	0.90	NO	0.789	1.000	41.021	41.07	1.225	1.226	165.15	82.6	0.137	
35	35 37CI-2,3,7,8-TCDD	1.57e5			1.18	1.000	25.692	25.69	1.027	1.027	9.9110	99.1	0.0232	
36	36 13C-1,2,3,4-TCDD	1.35e6	0.81	NO	1.00	1.000	25.080	25.02	1.000	1.000	100.00	100	0.128	
37	37 13C-1,2,3,4-TCDF	2.07e6	0.79	NO	1.00	1.000	23.420	23.36	1.000	1.000	100.00	100	0.152	
38	38 13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.00	1.000	33.520	33.49	1.000	1.000	100.00	100	0.203	

Quantify Sam Vista Analytica		Page 1 of 13
Dataset:	Untitled	
Last Altered: Printed:	Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time	

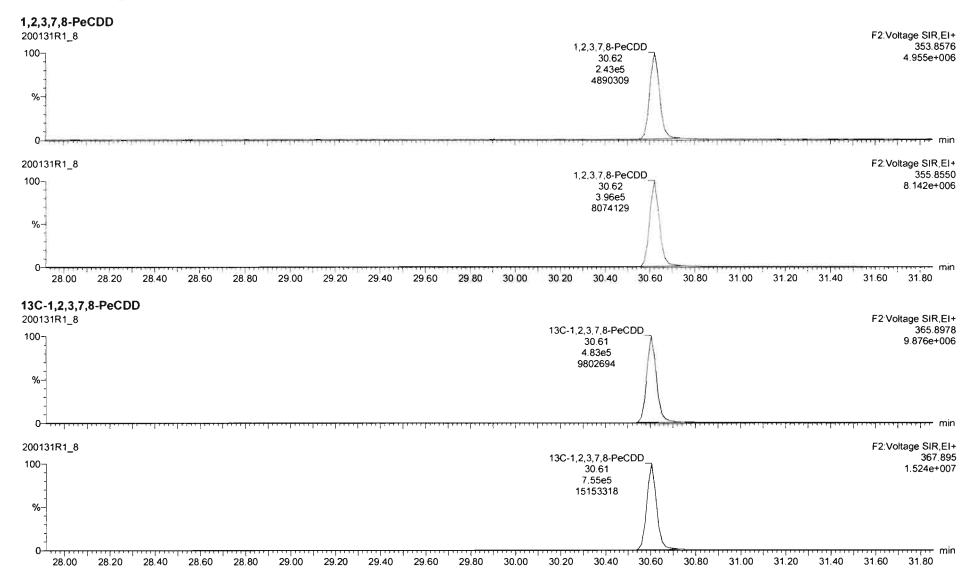
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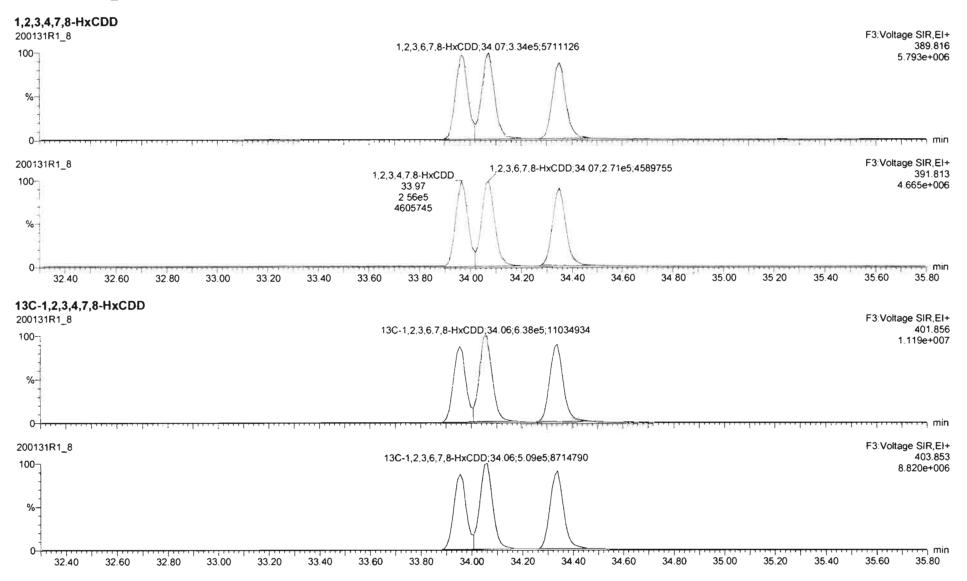
Quantify Sam Vista Analytica	• •	MassLynx 4.1 SCN815	Page 2 of 13
Dataset:	Untitled		
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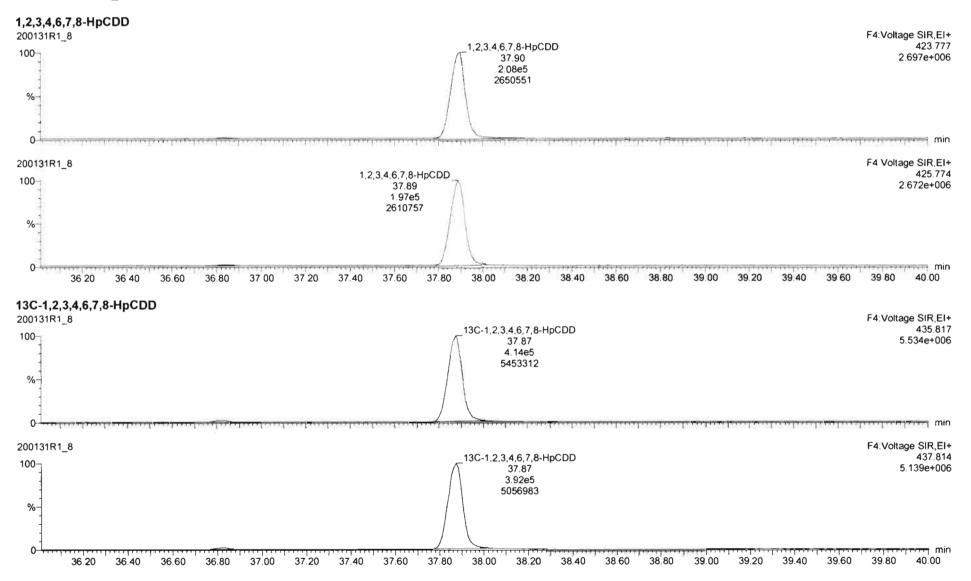
Quantify San Vista Analytica		Page 3 of 13
Dataset:	Untitled	
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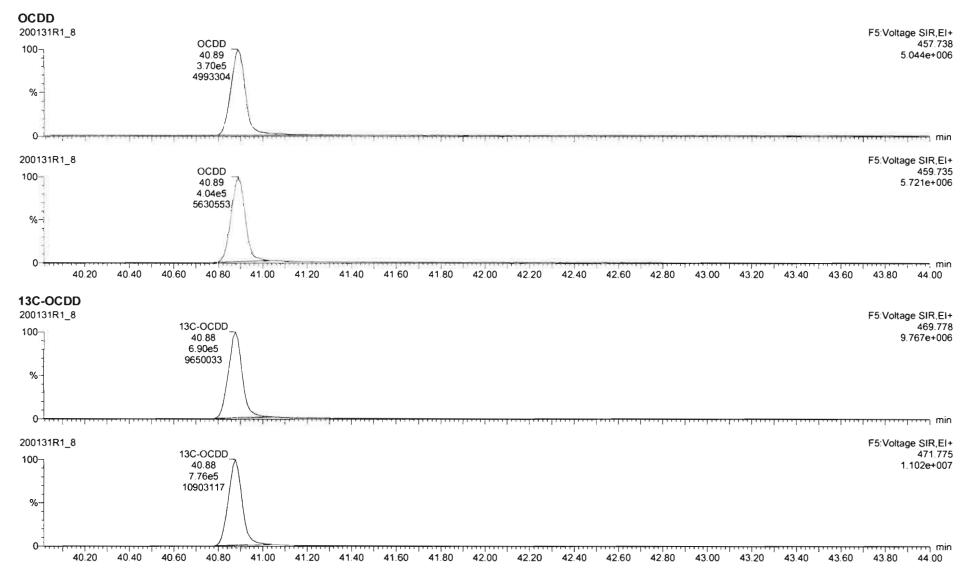
Quantify Sam Vista Analytica		Page 4 of 13
Dataset:	Untitled	
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Quantify Sam Vista Analytica		Page 5 of 13
Dataset:	Untitled	
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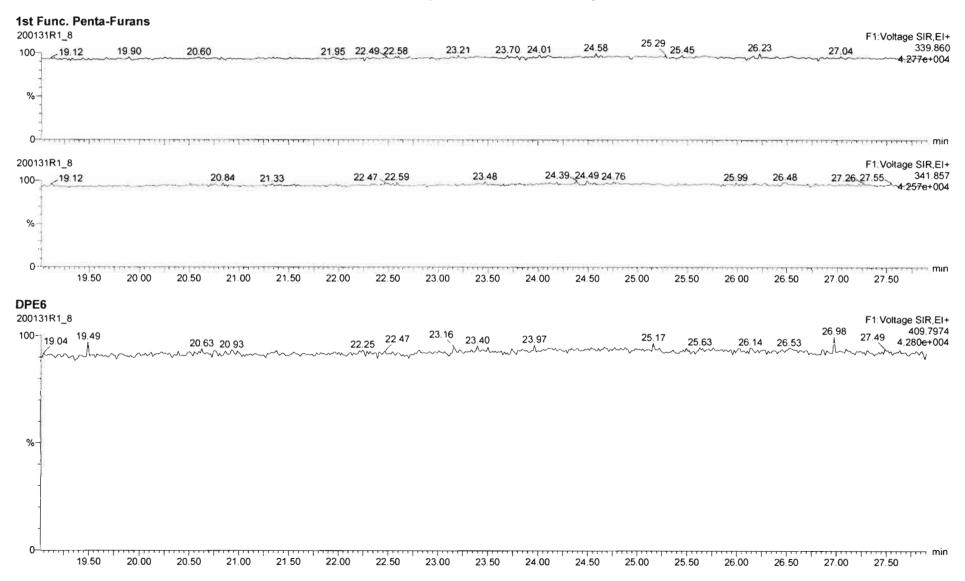
Quantify Sam Vista Analytica		Page 6 of 13
Dataset:	Untitled	
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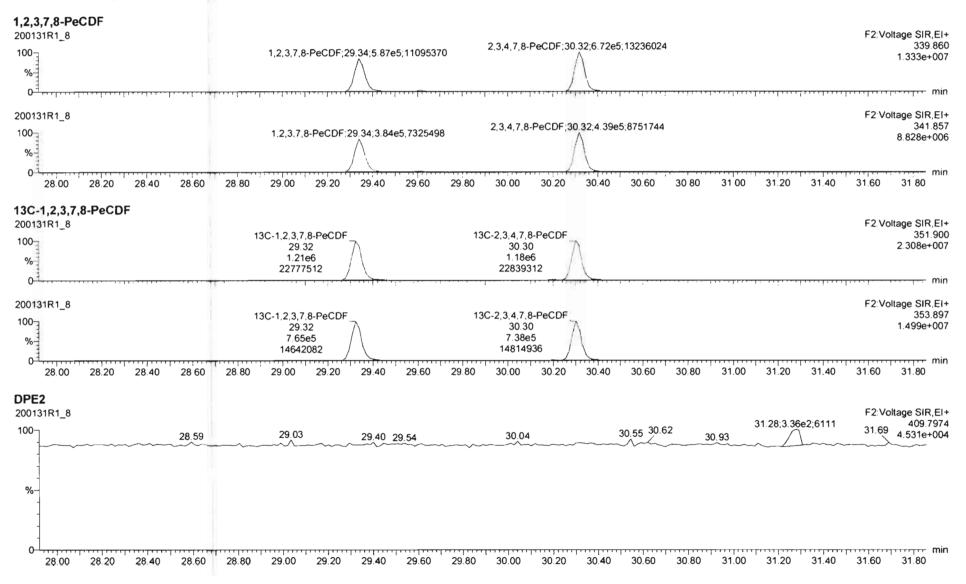
Quantify Sam Vista Analytica		Page 7 of 13
Dataset:	Untitled	
Last Altered: Printed:	Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time	

<b>2,3,7,8-TCDF</b> 200131R1_8			2,3,7,8-TCDF 24.79 7.35e4 983255			F1:Voltage SIR,EI+ 303.9016 1.029e+006
200131R1_8 100			2.3,7,8-TCDF 24.79 9.99e4 1368316			F1 Voltage SIR,EI+ 305.899 1.420e+006
0	21.00 21.50 22.00	22 50 23.00 23	50 24 00 24 50 25 0	00 25.50 26.00	26.50 27.00	27.50
<b>13C-2,3,7,8-TCDF</b> 200131R1_8 100 %	13C-1,2,3,4-TC	DF:23.36;9.14e5;10868608	13C-2,3,7,8-TCDF 24,78 8,82e5 12614442			F1:Voltage SIR,EI+ 315.9419 1.272e+007
200131R1_8 100	13C-1,2,3,4-TC	DF:23.34;1.16e6;13572950	13C-2,3,7,8-TCDF 24,78 1.13e6 15865046			F1:Voltage SIR,EI+ 317.939 1.600e+007
0 <sup>-1</sup>	21.00 21.50 22.00	22.50 23.00 23	50 24.00 24.50 25.0	00 25.50 26.00	26.50 27.00	27.50 min
<b>DPE1</b> 200131R1_8			24.04			F1:Voltage SIR,EI+
100 <u>19.75</u> %	21.38	22.53 2	24.04 24.73		26.57	375.8364 

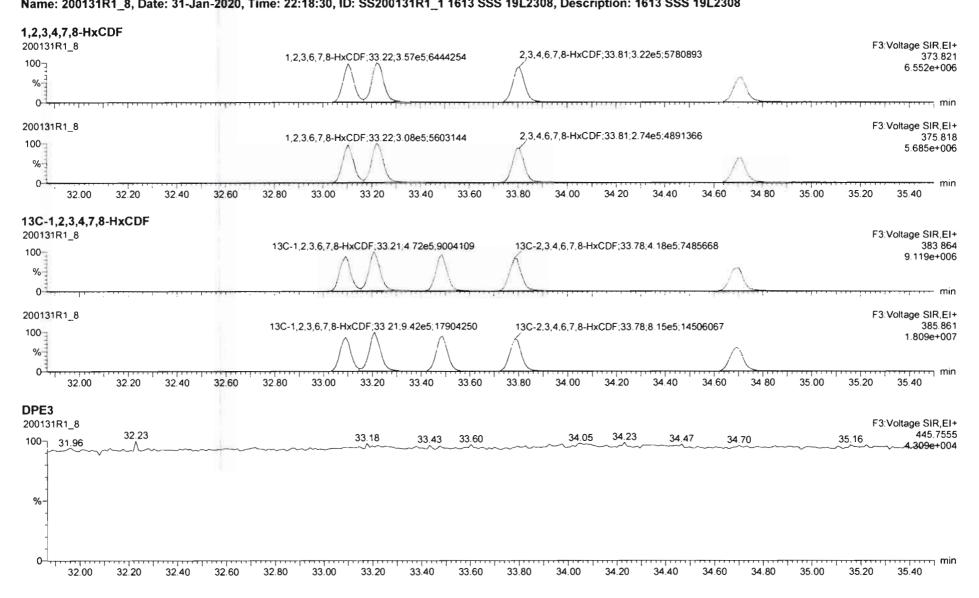
Quantify Sam Vista Analytica		Page 8 of 13
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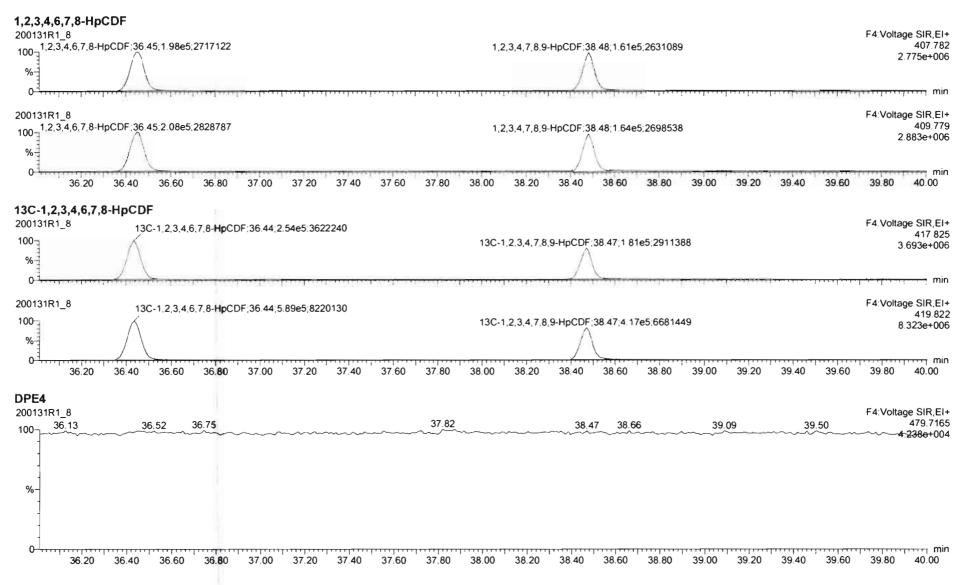
Quantify Sam Vista Analytica		MassLynx 4.1 SCN815	Page 9 of 13
Dataset:	Untitled		
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Quantify Sam Vista Analytica		Page 10 of 13
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Report MassLynx 4.1 SCN815 boratory	Page 11 of 13
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