

June 11, 2020

### Vista Work Order No. 2000947

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 April 28, 2020 under your Project Name 'Gasco PDI'.

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

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

Sincerely,

Martha Maier Laboratory Director



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

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

### Vista Work Order No. 2000947 Case Narrative

### Sample Condition on Receipt:

Eight sediment samples and two QC water 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. The EPA Method 1613 analyses for the sediment samples were assigned to Vista Work Order No. 2000945. The EPA method 1668 analysis of sample "PDI-146SC-A-00-01-200426" was assigned to Vista Work Order No. 2000974.

### **Analytical Notes:**

### EPA Method 1613B

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

### Holding Times

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

### Quality Control

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

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

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

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# **Sample Inventory Report**

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000947-01	PDI-FB-2004261231	26-Apr-20 12:30	28-Apr-20 09:04	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L
2000947-02	PDI-RB-2004261300	26-Apr-20 13:00	28-Apr-20 09:04	Amber Glass NM Bottle, 1L
				Amber Glass NM Bottle, 1L

Vista Project: 2000947

Client Project: Gasco PDI

## ANALYTICAL RESULTS

Sample ID: Method	l Blank						EPA Me	thod 1613B
Matrix: Aque Sample Size: 1.00		QC Batch: B0E0092 Date Extracted: 12-May-2020	0 10:06	1	ab Sample: B0E0092-BLK1 Date Analyzed : 09-Jun-20 14:04	4 Column: ZB-5MS		
Analyte Conc.	(pg/L)	DL EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.647		IS	13C-2,3,7,8-TCDD	85.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.694			13C-1,2,3,7,8-PeCDD	85.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.867			13C-1,2,3,4,7,8-HxCDD	84.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.904			13C-1,2,3,6,7,8-HxCDD	81.5	28 - 130	
1,2,3,7,8,9-HxCDD	ND	1.11			13C-1,2,3,7,8,9-HxCDD	81.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	2.30			13C-1,2,3,4,6,7,8-HpCDD	73.3	23 - 140	
OCDD	17.1		J		13C-OCDD	56.0	17 - 157	
2,3,7,8-TCDF	ND	0.446			13C-2,3,7,8-TCDF	80.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.606			13C-1,2,3,7,8-PeCDF	89.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.566			13C-2,3,4,7,8-PeCDF	88.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.679			13C-1,2,3,4,7,8-HxCDF	83.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.650			13C-1,2,3,6,7,8-HxCDF	81.4	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.679			13C-2,3,4,6,7,8-HxCDF	85.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	1.09			13C-1,2,3,7,8,9-HxCDF	81.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	1.23			13C-1,2,3,4,6,7,8-HpCDF	75.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	1.33			13C-1,2,3,4,7,8,9-HpCDF	77.5	26 - 138	
OCDF	ND	1.37			13C-OCDF	57.6	17 - 157	
				CRS	37Cl-2,3,7,8-TCDD	97.4	35 - 197	
					Toxic Equivalent Quotient (T	EQ) Data (pg/L)		
					TEQMinWHO2005Dioxin	0.00513		
TOTALS								
Total TCDD	ND	0.647						
Total PeCDD	ND	0.694						
Total HxCDD	ND	1.11						
Total HpCDD	ND	2.30						
Total TCDF	ND	0.446						
Total PeCDF	ND	0.606						
Total HxCDF	ND	1.09						
Total HpCDF	ND	1.33						

DL - Sample specifc estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: OPR								EPA Method 1613B
Matrix: Aqueous Sample Size: 1.00 L			B0E0092 12-May-202	0 10:06		Lab Sample:B0E0092-BS1Date Analyzed:09-Jun-20 11:45	Column: ZB-5MS	
Analyte	Amt Found (pg/L)	Spike Amt	%R	Limits		Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	183	200	91.4	67 - 158	IS	13C-2,3,7,8-TCDD	93.5	20 - 175
1,2,3,7,8-PeCDD	930	1000	93.0	70 - 142		13C-1,2,3,7,8-PeCDD	91.1	21 - 227
1,2,3,4,7,8-HxCDD	950	1000	95.0	70 - 164		13C-1,2,3,4,7,8-HxCDD	87.7	21 - 193
1,2,3,6,7,8-HxCDD	985	1000	98.5	76 - 134		13C-1,2,3,6,7,8-HxCDD	82.3	25 - 163
1,2,3,7,8,9-HxCDD	951	1000	95.1	64 - 162		13C-1,2,3,7,8,9-HxCDD	84.7	21 - 193
1,2,3,4,6,7,8-HpCDD	986	1000	98.6	70 - 140		13C-1,2,3,4,6,7,8-HpCDD	77.7	26 - 166
OCDD	1980	2000	98.9	78 - 144		13C-OCDD	63.2	13 - 199
2,3,7,8-TCDF	198	200	99.2	75 - 158		13C-2,3,7,8-TCDF	87.8	22 - 152
1,2,3,7,8-PeCDF	958	1000	95.8	80 - 134		13C-1,2,3,7,8-PeCDF	93.2	21 - 192
2,3,4,7,8-PeCDF	948	1000	94.8	68 - 160		13C-2,3,4,7,8-PeCDF	94.3	13 - 328
1,2,3,4,7,8-HxCDF	989	1000	98.9	72 - 134		13C-1,2,3,4,7,8-HxCDF	89.4	19 - 202
1,2,3,6,7,8-HxCDF	993	1000	99.3	84 - 130		13C-1,2,3,6,7,8-HxCDF	85.4	21 - 159
2,3,4,6,7,8-HxCDF	981	1000	98.1	70 - 156		13C-2,3,4,6,7,8-HxCDF	91.9	22 - 176
1,2,3,7,8,9-HxCDF	944	1000	94.4	78 - 130		13C-1,2,3,7,8,9-HxCDF	89.0	17 - 205
1,2,3,4,6,7,8-HpCDF	993	1000	99.3	82 - 122		13C-1,2,3,4,6,7,8-HpCDF	81.0	21 - 158
1,2,3,4,7,8,9-HpCDF	1010	1000	101	78 - 138		13C-1,2,3,4,7,8,9-HpCDF	79.9	20 - 186
OCDF	1960	2000	98.1	63 - 170		13C-OCDF	61.1	13 - 199
					CRS	37Cl-2,3,7,8-TCDD	101	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-FE	3-2004261231			EPA Method 161
Project: Gasco	or QEA, LLC o PDI pr-2020 12:30	Sample DataMatrix:QC WaterSample Size:0.981 L		Laboratory DataLab Sample:2000947-01Date Received:28-Apr-20209:04QC Batch:B0E0092Date Extracted:12-May-202010:06Date Analyzed :09-Jun-2015:37Column: ZB-5MS
Analyte Conc.	. (pg/L)	DL EMPC	Qualifiers	Labeled Standard %R LCL-UCL Qualifi
2,3,7,8-TCDD	ND	0.594		IS 13C-2,3,7,8-TCDD 96.7 25 - 164
1,2,3,7,8-PeCDD	ND	0.658		13C-1,2,3,7,8-PeCDD 96.4 25 - 181
1,2,3,4,7,8-HxCDD	ND	0.685		13C-1,2,3,4,7,8-HxCDD 90.7 32 - 141
1,2,3,6,7,8-HxCDD	ND	0.670		13C-1,2,3,6,7,8-HxCDD 88.7 28 - 130
1,2,3,7,8,9-HxCDD	ND	0.822		13C-1,2,3,7,8,9-HxCDD 87.8 32 - 141
1,2,3,4,6,7,8-HpCDD	ND	2.26		13С-1,2,3,4,6,7,8-НрСDD 79.2 23 - 140
OCDD	15.7		J, B	13C-OCDD 65.2 17 - 157
2,3,7,8-TCDF	ND	0.367		13C-2,3,7,8-TCDF 94.0 24 - 169
1,2,3,7,8-PeCDF	ND	0.407		13C-1,2,3,7,8-PeCDF 102 24 - 185
2,3,4,7,8-PeCDF	ND	0.366		13C-2,3,4,7,8-PeCDF 104 21 - 178
1,2,3,4,7,8-HxCDF	ND	0.516		13C-1,2,3,4,7,8-HxCDF 89.3 26 - 152
1,2,3,6,7,8-HxCDF	ND	0.493		13C-1,2,3,6,7,8-HxCDF 86.5 26 - 123
2,3,4,6,7,8-HxCDF	ND	0.523		13C-2,3,4,6,7,8-HxCDF 91.9 28 - 136
1,2,3,7,8,9-HxCDF	ND	0.797		13C-1,2,3,7,8,9-HxCDF 86.5 29 - 147
1,2,3,4,6,7,8-HpCDF	ND	0.827		13C-1,2,3,4,6,7,8-HpCDF 82.1 28 - 143
1,2,3,4,7,8,9-HpCDF	ND	0.906		13С-1,2,3,4,7,8,9-НрСDF 79.4 26 - 138
OCDF	ND	1.23		13C-OCDF 61.8 17 - 157
				CRS 37CI-2,3,7,8-TCDD 105 35 - 197
				Toxic Equivalent Quotient (TEQ) Data (pg/L)
				TEQMinWHO2005Dioxin 0.00471
TOTALS				
Total TCDD	ND	0.594		
Total PeCDD	ND	0.658		
Total HxCDD	ND	0.822		
Total HpCDD	ND	2.26		
Total TCDF	ND	0.396		
Total PeCDF	ND	0.407		
Total HxCDF	ND	0.797		
Total HpCDF	ND	0.906		

DL - Sample specifc estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

Sample ID: PDI-RE	8-2004261300							EPA Me	thod 1613B
Project: Gasco	or QEA, LLC 9 PDI 9r-2020 13:00	Sample I Matrix: Sample	QC Water		Lab QC	boratory Data Sample: 2000947-02 Batch: B0E0092 te Analyzed : 09-Jun-20 16:23	Date Received: Date Extracted: Column: ZB-5MS	12-May-2020	
Analyte Conc.	(pg/L)	DL	EMPC	Qualifiers		Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.524			IS	13C-2,3,7,8-TCDD	86.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.576				13C-1,2,3,7,8-PeCDD	87.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.696				13C-1,2,3,4,7,8-HxCDD	83.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.703				13C-1,2,3,6,7,8-HxCDD	83.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.838				13C-1,2,3,7,8,9-HxCDD	83.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	1.73				13C-1,2,3,4,6,7,8-HpCDD	73.6	23 - 140	
OCDD	13.8			J, B		13C-OCDD	59.8	17 - 157	
2,3,7,8-TCDF	ND	0.344				13C-2,3,7,8-TCDF	81.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.358				13C-1,2,3,7,8-PeCDF	91.2	24 - 185	
2,3,4,7,8-PeCDF	ND	0.337				13C-2,3,4,7,8-PeCDF	92.8	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.452				13C-1,2,3,4,7,8-HxCDF	81.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.444				13C-1,2,3,6,7,8-HxCDF	80.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.466				13C-2,3,4,6,7,8-HxCDF	84.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.729				13C-1,2,3,7,8,9-HxCDF	81.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.792				13C-1,2,3,4,6,7,8-HpCDF	74.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.898				13C-1,2,3,4,7,8,9-HpCDF	72.5	26 - 138	
OCDF	ND	1.52				13C-OCDF	58.1	17 - 157	
					CRS	37Cl-2,3,7,8-TCDD	94.6	35 - 197	
						Toxic Equivalent Quotient (TEC	2) Data (pg/L)		
						TEQMinWHO2005Dioxin	0.00414		
TOTALS									
Total TCDD	ND	0.524							
Total PeCDD	ND	0.576							
Total HxCDD	ND	0.838							
Total HpCDD	ND	1.73							
Total TCDF	ND		0.277						
Total PeCDF	ND	0.358							
Total HxCDF	ND	0.729							
Total HpCDF	ND	0.898							

DL - Sample specifc estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

## 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

POC:       Delaney Peterson (360-715-2707)       Project:       Gasco PDI         1605 Cornwall Avenue, Bellingham, WA 98225       Client:       NW Natural         COC Sample Number       Field Sample ID       Image: Top t	Sample Custodian: SN Lab: VISTA Method TAT**	Preservative
COC Sample Number       Field Sample ID       Image: Simple for the symple fo	Method TAT**	Preservative
Number         Image: Constraint of the state of th		Preservative
001         PDI-FB-2004261231         FB         WQ         04/26/2020         12:30         2         Dioxin/Furans           002         PDI-RB-2004261300         RB         WQ         04/26/2020         13:00         2	E1613B	
002 PDI-RB-2004261300 RB WQ 04/26/2020 13:00 2	E1613B	
002 PDI-RB-2004261300 RB WQ 04/26/2020 13:00 2		4°C
	a and a contribute to be a maintain an end of the state of t	Ashield Ballinger Marter
	E1613B 30	4°C: 000000 00000000000000000000000000000
Dioxin/Furans 💥	E1613B 7	4°C 4°C
	E1668A 7	4°C
Total solids (VISTA)	SM2540G 7	NATES OF STREET OF STREET
004 PDI-146SC-A-01-02-200426 N SE 04/26/2020 8:53 1		aller och den stallet skälla som
Dioxin/Furans	E1613B 7	4*C
Total solids (VISTA)	SM2540G 7	4°C
005 PDI-146SC-A-02-03-200426 N SE 04/26/2020 8:53 1		<b>王公、松陽</b> 山:343-35
Dioxin/Furans	E1613B 7	4°C
Total solids (VISTA)	SM2540G 7	4°C
006 PDI-146SC-A-03-04-200426 N SE 04/26/2020 8:53 1		an grad and
	E1613B 7	4°C
Total solids (VISTA)		4°C
		4*C
Dioxin/Furans Total solids (VISTA)	E1613B 7 SM2540G 7	4°C
1. 如果要求出现了这种资源的考虑了。为保持的方式可以可		
008 PDI-146SC-A-05-06-200426 N SE 04/26/2020 8:53 1		
Dioxin/Furans	E1613B 7	4°C
Comment: ★ W0 # 2000945		4*C
Relinquished By:     Received By:       Signature     A         Signature     Signature   Signature	Relinquished By: Received By: Signature Signature	
GUL Willing Litt		
Print Name Print Name Print Name Print Name	Print Name Print Name	
Company Company Company		

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

Date/Time

Date/Time

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Date/Time

**Date Printed:** 4/26/2020 Work Order 2000947

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Ina

Date/Time

1230 DeterTime 28-20 09:04

Date/Time

1	1201 3rd A	ANCHOR DEA CONCENTRATION DEA Venue, Suite 2800, Seattle, WA 98101	NVIR	ONME	ENTAL SAI	MPLE	CH	AIN	OF CUSTODY	2000947 coc	D:	VIST	-202004	26-095509
	POC: "	Delaney Peterson (360-715-270	)7)		Project:	Gasco	DI PDI			Samp	le Custodian:	SN		
		1605 Cornwall Avenue, Bellingh	am, WA	98225	Client:	NW N	atural			Lab:		VIST	<b>\</b>	
	COC Sample Number	Field Sample ID	Sample Type	Matrix	Collecte	ed Time	# Containers	Lab QC*	Test Request		Method		TAT**	Preservative
,  -	008	PDi-146SC-A-05-06-200426	N	SE	04/26/2020	8:53	1		Logisti Constanti Children and Logis March 20			an a	La Jan an Arad	NARY REPORT
Ċ		9 (9),0	•					.—	Total solids (VISTA)		SM2540G		7	4°C
ſ	009	PDI-146SC-A-06-07-200426	N	SE	04/26/2020	8:53	1					(e)s. (e-1	and a standay	
-		21.842 X (2.79%)	12.5	ins Very			`	1.00	Dioxin/Furans	na in the second se	E1613B	E REFERENCE	7	4°C
							•		Total solids (VISTA)	<ul> <li>Elements of the second s</li></ul>	SM2540G	where is a set of the	7	4°C
ſ	010	PDI-146SC-A-07-08-200426	N	SE	04/26/2020	8:53	1					a yang sa kara kara kara kara Manang sa kara kara kara kara kara kara kara k	an a	
			·		_				Dioxin/Furans		E1613B		7	4°C
									Total solids (VISTA)		SM2540G		7	4*C

Comment:	* W0# 2000945				
Relinguished By:	Received By:	Relinguished By;	Received By:	Relinguished By:	Received By:
Signature	Signature Illin RUA	Signature	Signature	Signature	Signature
Sash Non	vod Print Name 11, Am R.W.r. 1) H	Print Name	Print Name	Print Name	Print Nam <del>e</del>
Company Acho	DE4 Company 1/2L	Company	Company	Company	Company
	1720 Date/Time 4-28-20 09:01	Date/Time	Date/Time	Date/Tima	Date/Time
- Hr H co					

Work Order 2000947

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



## Sample Log-In Checklist

		200	AU7			Page # of			
Vista Work Orde	r #:	4/12	/11			<u></u>			
Semples	Date/Time			Initials:		لحن: Location	2		
Samples Arrival:	4/28/20	69	:oy	Uh		Shelf/Rack: NA			
Delivered By:	FedEx	UPS	On Tra	c GLS	DHI	Hand Delivered	Other		
Preservation:	lce	)	Blu	le lce		Dry Ice	None		
Temp °C:	(uncorrec	ted)					12-3		
Temp °C: 3ు	d)	robe use	ed: Y / N	)	Thermometer ID:				

					YES/	NO	NA					
Shipping Container(s) Intact	?				V							
Shipping Custody Seals Intact?												
Airbill 30 3 1073 Trk #		V	/									
Shipping Documentation Pre	esent?				V							
Shipping Container	Vista	Client	Retain	Ref	turn	Disp	ose					
Chain of Custody / Sample [	Documentation Pr	resent?			<i>_</i> /							
Chain of Custody / Sample [	Documentation Co	omplete?			$\checkmark$							
Holding Time Acceptable?					$\checkmark$							
Logged In:     Date/Time     Initials:     Location:     UR-2       04/28/20     1109     WS     Shelf/Rack:     G=1												
COC Anomaly/Sample Acce	ptance Form com	pleted?				$\checkmark$	/					

Comments:

ID.: LR – SLC



Sample Log-In Checklist

		2m	MIT					Page #	of
Vista Work Orde	r #:	_41	1997					_tat\$t/1	
Samples	Date/Tim			Initia	ls:		L	ocation: (V)	k-2
Arrival: 4/20/20 0			1:04 ulu			<i>w</i>	S	helf/Rack:/	VA
Delivered By:	FedEx	UPS	On Tra	Trac GLS DHL			L	Hand Delivered	Other
Preservation:	lo	e	Blu	lce				Dry Ice	None
Temp °C: $\mathcal{U}_{\mathfrak{l}}$ 3	(uncorr	ected)			. 6	)		nermometer ID:	T02
Temp °C: $\mathcal{U}_{e2}$	6 (correc		Probe use	ea: Y		,			

		<b>电线的 计不包</b> 表		YES	S NO	NA					
Shipping Container(s) Int	act?			L							
Shipping Custody Seals I	ntact?			V							
Airbill 3073 Trk# 7703 3190 1482 4											
Shipping Documentation	Present?										
Shipping Container	Vista	Client	Retain	Return	Dis	pose					
Chain of Custody / Samp	le Documentation	Present?		V							
Chain of Custody / Samp	le Documentation	Complete?		V							
Holding Time Acceptable	?										
Date/T	ime	Initials:	Locat	tion: UR-	2						
Logged In: 01/28/20 1109 WWS Shelf/Rack: <u>B-1</u>											
COC Anomaly/Sample A	cceptance Form co	ompleted?			$\checkmark$	<ul> <li>✓</li> </ul>					

Comments:

ID.: LR - SLC

# CoC/Label Reconciliation Report WO# 2000947

LabNumber CoC Sample ID			Sai	mplcAlias		Sample Date/Time		Container	Sample BaseMatrix Comments
2000947-01 A PDI-FB-2004261231	U U	Ce i ce i		and a special		26-Apr-20 12:30	Ø	Amber Glass NM Bottle, 1L	Aqueous
2000947-01 B PDI-FB-2004261231	Q	200/201100				26-Apr-20 12:30	e	Amber Glass NM Bottle, 1L	Aqueous
2000947-02 A PDI-RB-2004261300	Ū'					26-Apr-20 13:00	Ø	Amber Glass NM Bottle, 1L	Aqueous
2000947-02 B PDI-RB-2004261300	⊡∕			00000000		26-Apr-20 13:00		Amber Glass NM Bottle, 1L	Aqueous
Checkmarks indicate that information on t Any discrepancies are noted in the following		label.							
		Yes	No	NA	Comments:				
Sample Container Intact?		~							
Sample Custody Seals Intact?				~	ł				
Adequate Sample Volume?		~			Ì				
Container Type Appropriate for Analysis	s(es)	/			Ī				
Preservation Documented: Na2S2O3 7	Trizma None Other			~					
If Chlorinated or Drinking Water Sample	es, Acceptable Preservation?			~	Ī				
Verifed by/Date: <u>KA 04/28/202</u> 0	2				-				

## **EXTRACTION INFORMATION**

Process Sheet Workorder: 2000947

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

Workorder Due: 26-May-20 00:00

TAT: 28

Method: <b>1613 Full List</b> Matrix: <b>Aqueous</b> Client Matrix: QC Water	F	Prep Batch:	B020092	_
Also run: Percent Solids	Prep Data		M 03/14/25 Pate and Initials	_
	Initial	Sequence:	SOF0025	
LabSampleID Recon ClientSampleID	Date Received	Location	Comments	
2000947-01 A D PDI-FB-2004261231	28-Apr-20 09:04	WR-2 B-1		
2000947-02 PDI-RB-2004261300	28-Apr-20 09:04	WR-2 B-1		

## WO Comments: One dup required per batch of 20 samples

Prep Reconciled Initals/Date: <u>A 2 05/12/20</u> Spike Reconciled Initals/Date: <u>EUU 05712/</u>20 VialBoxID: <u>FOXIC</u>

Page 1 of 1

#### PREPARATION BENCH SHEET

Matrix: Aqueous

### B0E0092

AZ Chemist:

Prep Date/Time: 12-May-20

1006

Method: 1613 Full List Method: 1613 2.3.7.8s Only Method: 1613 2.3.7.8-TCDD Only

### **Prepared using: HRMS - Separatory Funnel**

VISTA Sample ID	Bottle + Sample (g)	Bottle Only (g)	Sample Amt. (L)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B0E0092-BLK1	NA	MA	(1.000)	At CII Slip	R IME OS/13/10	NĄ	N 05/13/20	2 05/13/2	22 05/14/25	22 of OSIMA
B0E0092-BS1			(1:000)	T	T	T	T	T	7	
2000947-01	1491.09	509.99	0, 9811 -							
2000947-02	1465.41	509.46	0.9560-							
2000982-01	1282.55	394.09	0.8885						NA	
2000983-01	1263.82	394.86	0.8690							
2001014-01	1488.73	507.57	2.9812						2 05114/20	
2001019-01	1495.29	508.02	0.9873						NA	
2001019-02	1506.37	505.25	1.0011						Ţ	
2001021-01	1296.72	404.04	0.8867						2 05/14/20	
2001023-01	1501.36	501.91	0.9995	4						

Decompte took longer on ABSG column 2 05/12/20 \* AZ 05/12/20 \* AZ 05/12/20

	NS Name	$\bigcirc$	S Name	RS Name	V.	Cycle Time	APP SEFUN SOX SDS	Check Out: Chemist/Date: AZ 05/12/2
PCDD/F 19 L	2301 10 pcDD/F	185 913, 1000 PCI	DD/F 1411602 , 10	PCDD/F 19	11603, 10 -	Start Date/Time:	SOLV: DCM	Check In:
PCB	PCB	PCE	3	PCB		M	Other A	Check III. Chemist/Date: $NA or   2 ^2$
PAH	PAH	PAH	ł	PAH			Final Volume() ZOUL	Balance ID: <u>HRMS-9</u> _
							Ciy	

Comments: Assume 1 g = 1 mL

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 2000947

5 = Sample Centrifuged to remove particulate

6 = Added boiling chips to seperatory funnel

7 = Sample emulsed during shakeout

Percan Moisine (Farcant Solids

D2216-90 BATCH ID B0E0095

Analyst	: AZ Test Co	de: %Moist/%Solids	Data Entry Verified by:
Analyte	: Ur	its: %	(Initial and Date) 10 05/15/20
	Dried at 110°C+/-5°C		
Oven ID	: 01 <u>02</u>		

			Date/Time IN:	Date/Time OUT	1									
Inst	HRMS-9		05/12/20 0948	05/13/20 1308	]									
	8	С	D	ε	F	G	н	1	ĸ	L	M	N	0	P
				Intial and Date:		JC 05/13/20			AZ 05/12/20			NA		AZ 05/12/20
Particle Size	SamplD		SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cŀ	pH Before	pH After	Acid Added	Sample Homogenized*
	2000947-01	A	Sample	1.3100	13,5500	1.3100	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2000947-02	A	Sample	1.2900	18.4200	1.2900	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2000982-01	A	Sample	1.3000	20.9900	1.3000	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2000983-01	A	Sample	1.3200	20.7000	1.3200	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2001014-01	A	Sample	1.3100	8.5300	1.3800	0.0700	0.97	CLEAR	0	6	NA	NA	Y
	2001019-01	A	Sample	1.2900	11.6500	1.2900	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2001019-02	A	Sample	1. <u>3</u> 100	9.7300	1.3100	0.0000	0.00	CLEAR	0	5	NA	NA	Y
	2001021-01	A	Sample	1.3100	22.9700	1.4700	0.1600	0.74	CLEAR	0	1	NA	NA	Y
	2001023-01	Α	Sample	1.3100	12.5200	1.3200	0.0100	0.09	CLEAR	0	5	NA	NA	Y
														_
													_	
													-	
							_				<u> </u>		-	

\*Sample homogenized in sample container unless otherwise noted.

BCH\_PMOIST\_B0E009S

tarea Mostera Tarean Soles

D2216-90 BATCH ID B0E0095

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

Inet as a c			Date/Time IN:	Date/Time OUT	I									
Inst HEMS-9			0948	13.01										
	В	С	D	Е	F	G	н	***	к	L		Ν	0	Р
				Intial and Date:	AZ 05/12/20	n 05/13/20			AZ 05	12	120			AZ 05/12/2
Particle Size	SampiD		SampType	Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample 'Weight (g)	%Solids RawVai	Visual Inspection	Cŀ	pH Before	pH After	Acid Added	Sample ' Homogenized*
	2000947-01	4	Sample	1.31	19.55	1.31			Clear	0		1		<u>\</u>
	2000947-02		Sample	1.29	18.42	1.29			T	0	5	$\Lambda$		¥
	2000982-01		Sample	1.30	20.99	1.30				6	5	$  \rangle$		¥
	2000983-01		Sample	1.32	20.70	1.32				0	5	$  \rangle$		. Y
	2001014-01		Sample	1.31	8.53	1.38		$\mathbf{N}$		٥	و			4
	2001019-01		Sample	1.29	11.65	1.29				ð	5		٦.	Ý
	2001019-02		Sample	1.31	9.73	1.31				٥	5			· · · · · · · · · · · · · · · · · · ·
	2001021-01		Sample	1.31	22.97	1.47				0	1			4
	2001023-01	4	Sample	1.31	12.52	1.82				٥	5			¥.
														<u>√</u>

\*Sample homogenized in sample container unless otherwise noted.

8CH\_PMOIST\_80E0095

# Batch: B0E0092

# Matrix: Aqueous

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000947-01	<b>0.9811</b> ~	NA	μŅ	20	12-May-20 10:06	AZK			QC Water	1613 Full List
2000947-02	0.956 ✓	T	T	20	12-May-20 10:06	AZK			QC Water	1613 Full List
2000982-01	0.8885 ~			20	12-May-20 10:06	AZK			Effluent	1613 2,3,7,8-TCDD Only
2000983-01	0.869 -			20	12-May-20 10:06	AZK			Effluent	1613 2,3,7,8-TCDD Only
2001014-01	0.9812			20	12-May-20 10:06	AZK			Effluent	1613 Full List
2001019-01	0.9873 🗸			20	12-May-20 10:06	AZK			Wastewater	1613 2,3,7,8-TCDD Only
2001019-02	1.0011 🗸			20	12-May-20 10:06	AZK			Surface Water	1613 2,3,7,8-TCDD Only
2001021-01	0.8867 🗸			20	12-May-20 10:06	AZK			Aqueous	1613 Full List
2001023-01	0.9995 ~			20	12-May-20 10:06	AZK			Treatment Water	1613 2,3,7,8s Only
B0E0092-BLK1	1			20	12-May-20 10:06	AZK				QC
B0E0092-BS1	1			20	12-May-20 10:06	AZK	18F1913	L 10 L		QC

All bolded data on report verified against written benchsheet by (initial/date) 7. 05/14/20

Printed: 5/14/2020 1:13:26PM Page 1 of 1

## SAMPLE DATA – EPA METHOD 1613

Quantify San Vista Analytic	nple Summary Report al Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\2	00609R1\200609R1-5.qld	
Last Altered: Printed:		020 10:43:40 Pacific Daylight Time 020 10:46:04 Pacific Daylight Time	

GRB 06/10/2020 C7 06/10/2020

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

Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

¥	# Name	Resp	RA	n/y	RRF	wt/voi	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
16 20	1 2,3,7,8-TCDD			NO	0.888	1.000	26.486		1.001				0.647	
2	2 1,2,3,7,8-PeCDD			NO	0.908	1.000	31.458		1.001				0.694	
3	3 1,2,3,4,7,8-HxCDD			NO	1.03	1.000	34.815		1.000				0.867	
4.000	4 1,2,3,6,7,8-HxCDD			NO	0.892	1.000	34.911		1.000				0.904	
5	5 1,2,3,7,8,9-HxCDD			NO	0.887	1.000	35.210		1.000				1.11	
8	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	1.000	38.736		1.000				2.30	
7	7 OCDD	1.88e3	0.98	NO	0.914	1.000	41.717	41.72	1.000	1.000	17.115		3.32	17.1
8	8 2,3,7,8-TCDF			NO	0.751	1.000	25.582		1.001				0.446	
9	9 1,2,3,7,8-PeCDF			NO	0.893	1.000	30.160		1.001				0.606	
10	10 2,3,4,7,8-PeCDF			NO	0.935	1.000	31.162		1.001				0.566	
11	11 1,2,3,4,7,8-HxCDF			NO	0.884	1.000	33.931		1.000				0.679	
12	12 1,2,3,6,7,8-HxCDF			NO	0.889	1.000	34.059		1.000				0.650	
13	13 2,3,4,6,7,8-HxCDF			NO	0.934	1.000	34.669		1.001				0.679	
14	14 1,2,3,7,8,9-HxCDF			NO	0.871	1.000	35.561		1.000				1.09	ļ
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	1.000	37.356		1.001				1.23	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	1.000	39.278		1.000				1.33	
17	17 OCDF			NO	0.806	1.000	41.909		1.000				1.37	
18	18 13C-2,3,7,8-TCDD	8.40e5	0.76	NO	1.16	1.000	26.476	26.45	1.026	1.026	1718.3	85.9	1.94	
19	19 13C-1,2,3,7,8-PeCDD	6.16e5	0.64	NO	0.849	1.000	31.656	31.44	1.227	1.219	1716.8	85.8	3.40	
20	20 13C-1,2,3,4,7,8-HxCDD	4.33e5	1.28	NO	0.779	1.000	34.810	34.81	1.014	1.014	1691.2	84.6	5.54	
21	21 13C-1,2,3,6,7,8-HxCDD	5.45e5	1.27	NO	1.02	1.000	34.923	34.91	1.017	1.017	1629.9	81.5	4.25	
22	22 13C-1,2,3,7,8,9-HxCDD	4.81e5	1.23	NO	0.903	1.000	35.194	35.20	1.025	1.025	1620.0	81.0	4.78	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.32e5	1.07	NO	0.689	1.000	38.716	38.72	1.128	1.128	1465.9	73.3	4.27	
24	24 13C-OCDD	4.81e5	0.95	NO	0.652	1.000	41.737	41.72	1.216	1.215	2240.8	56.0	5.88	
25	25 13C-2,3,7,8-TCDF	1.01e6	0.77	NO	1.06	1.000	25.519	25.56	0.989	0.991	1615.1	80.8	2.71	
26	26 13C-1,2,3,7,8-PeCDF	8.89e5	1.59	NO	0.838	1.000	30.041	30.14	1.165	1.168	1788.9	89.4	4.03	
27	27 13C-2,3,4,7,8-PeCDF	8.60e5	1.55	NO	0.817	1.000	30.993	31.13	1.202	1.207	1776.9	88.8	4.13	
28	28 13C-1,2,3,4,7,8-HxCDF	5.55e5	0.50	NO	1.01	1.000	33.942	33.93	0.989	0.988	1675.2	83.8	5.79	
29	29 13C-1,2,3,6,7,8-HxCDF	6.25e5	0.51	NO	1.17	1.000	34.065	34.05	0.992	0.992	1628.2	81.4	5.00	
30	30 13C-2,3,4,6,7,8-HxCDF	5.78e5	0.53	NO	1.02	1.000	34.638	34.63	1.009	1.009	1718.6	85.9	5.70	
31	31 13C-1,2,3,7,8,9-HxCDF	4.62e5	0.50	NO	0.860	1.000	35.538	35.56	1.035	1.036	1633.7	81.7	6.78	

Page 1 of 2

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

Page 2 of 2

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-5.qld

Last Altered:	Wednesday, June 10, 2020 10:43:40 Pacific Daylight Time
Printed:	Wednesday, June 10, 2020 10:46:04 Pacific Daylight Time

### Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

and in	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.83e5	0.41	NO	0.774	1.000	37.285	37.32	1.086	1.087	1504.8	75.2	4.00	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.66e5	0.42	NO	0.521	1.000	39.314	39.28	1.145	1.144	1550.3	77.5	5.94	5
34	34 13C-OCDF	5.65e5	0.89	NO	0.746	1.000	41.909	41.91	1.221	1.221	2304.8	57.6	3.78	
35	35 37CI-2,3,7,8-TCDD	3.41e5			1.04	1.000	26.507	26.48	1.028	1.027	779.22	97.4	0.529	
36	36 13C-1,2,3,4-TCDD	8.45e5	0.80	NO	1.00	1.000	25.890	25.80	1.000	1.000	2000.0	100	2.24	
37	37 13C-1,2,3,4-TCDF	1.19e6	0.78	NO	1.00	1.000	24.360	24.12	1.000	1.000	2000.0	100	2.87	
38	38 13C-1,2,3,4,6,9-HxCDF	6.58e5	0.51	NO	1.00	1.000	34.420	34.33	1.000	1.000	2000.0	100	5.83	
39	39 Total Tetra-Dioxins				0.888	1.000	24.620		0.000				0.393	
40	40 Total Penta-Dioxins				0.908	1.000	29.960		0.000				0.288	
41	41 Total Hexa-Dioxins				0.892	1.000	33.635		0.000				0.555	
42	42 Total Hepta-Dioxins				0.864	1.000	37.640		0.000				1.22	
43	43 Total Tetra-Furans				0.751	1.000	23.610		0.000				0.233	
44	44 1st Func. Penta-Furans				0.893	1.000	27.580		0.000				0.0986	
45	45 Total Penta-Furans				0.893	1.000	29.275		0.000				0.346	
46	46 Total Hexa-Furans				0.934	1.000	33.555		0.000				0.303	
47	47 Total Hepta-Furans				0.873	1.000	37.835		0.000				0.616	

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

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-5.qld

Last Altered:	Wednesday, June 10, 2020 10:43:40 Pacific Daylight Time
Printed:	Wednesday, June 10, 2020 10:46:04 Pacific Daylight Time

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

Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

**Tetra-Dioxins** 

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

#### Penta-Dioxins



### Hexa-Dioxins



### **Hepta-Dioxins**



### Tetra-Furans

The second second	Name	RT	m1 Height m2 Height	m1 Resp	m2 Resp	FLA	niy	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										

F

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

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-5.qld

Last Altered: Wednesday, June 10, 2020 10:43:40 Pacific Daylight Time Printed: Wednesday, June 10, 2020 10:46:04 Pacific Daylight Time

Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

### Penta-Furans

and the second second	Name	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1						N.					

### Hexa-Furans

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

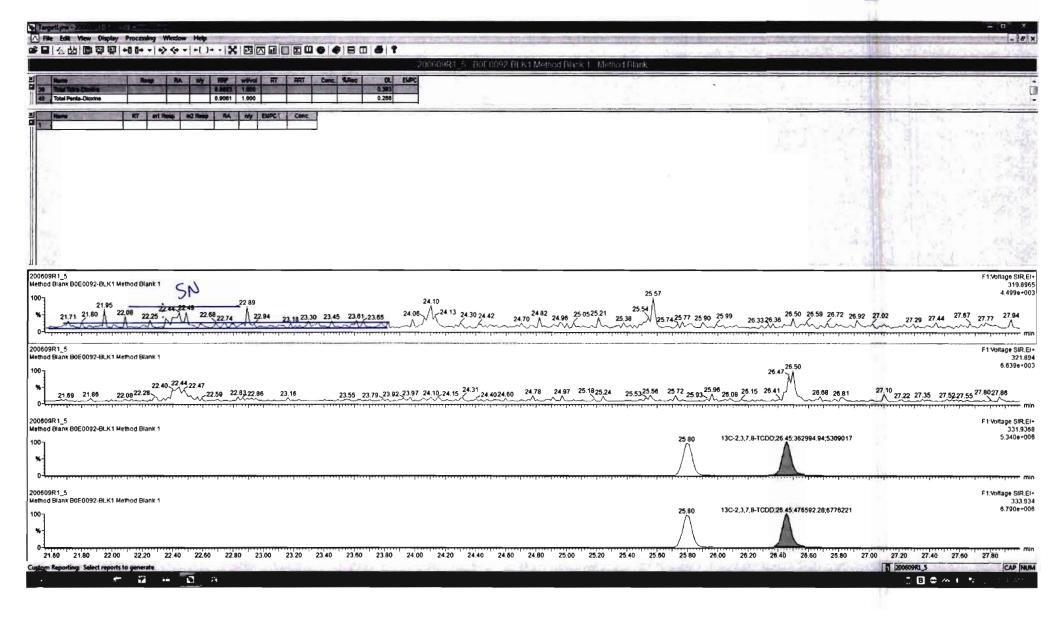
### Hepta-Furans

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

<b>Quantify San</b> Vista Analytica		MassLynx 4.1 SCN815		Page 27 of 18
Dataset:	Untitled			
ast Altered: Printed:	Wednesday, J Wednesday, J	une 10, 2020 07:36:36 Pacific Daylight Time une 10, 2020 07:38:53 Pacific Daylight Time		
Name: 20060	9R1_5, Date: 09	-Jun-2020, Time: 14:04:56, ID: B0E0092-B	LK1 Method Blank 1, Description: Method Blank	
2,3,7,8-TCDD			G	
200609R1_5		22.89 SN C	25.57	F1:Voltage SIR,E 319.89 4.499e+0
·hum	21.95  .33 21.71	22,49	24.13 25.54	6.92 27.29 27.44 27.77 27.94
0+		***************************************	······································	F1:Voltage SIR,E
100		22.44	26.50 3.60e2 6084	321.8 6.63 <del>9e</del> +0
<b>%</b> –		3.14e2 2844	Y	
21.41	21.86	22.28 23.16 23.79 23.97 2 22.28 23.16 23.79 23.97 2 23.16 23.79 23.97 2 23.16 23.79 23.97 2 23.97 2 24.97 2 25.97	4.1024.31 <sup>24.78</sup> 24.97 25.24 <sup>25.56</sup> 25.72 <sup>25.96</sup> 26.68	27.10 27.35 27.52 27.86 28.25
21.00	21.50 22.00	22.50 23.00 23.50 24.00	24.50 25.00 25.50 26.00 26.50	27.00 27.50 28.00
<b>13C-2,3,7,8-T</b> 200609R1_5	CDD			F1:Voltage SIR,E
100			13C-1,2,3,4-TCDD 13C-2,3,7 25.80 26 3 76e5 3.6	45 5.340e+0
			3.76e5 3.65 5183028 5309	
<b>%</b>				
0		*******		
200609R1_5				F1:Voltage SIR,E
100			13C-1,2,3,4-TCDD 13C-2,3,7 25.80 \ 26	45 6.790e+0
-			4.69e5 4.7 6546310 6776	
%_				
-				

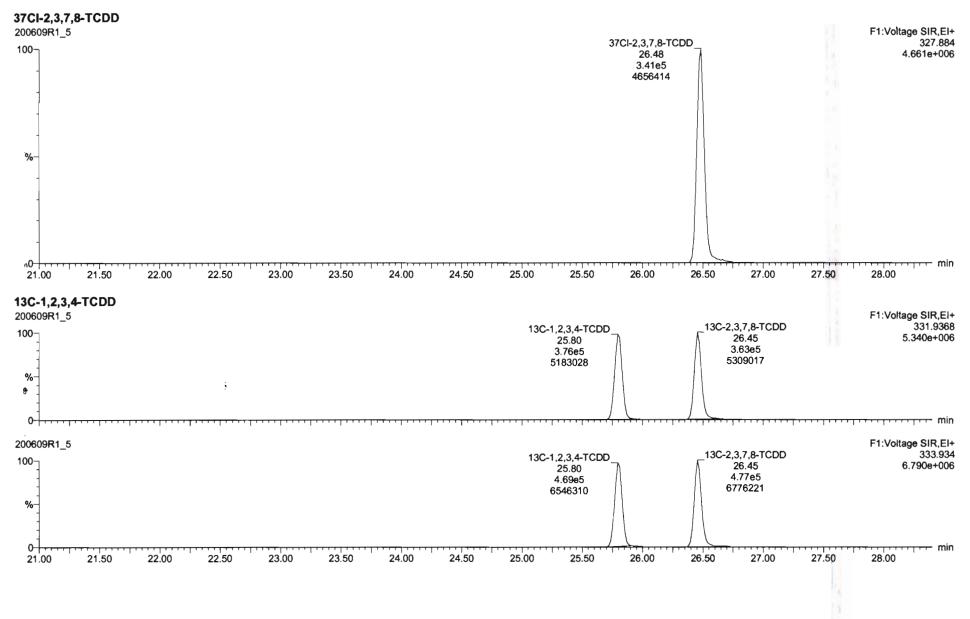
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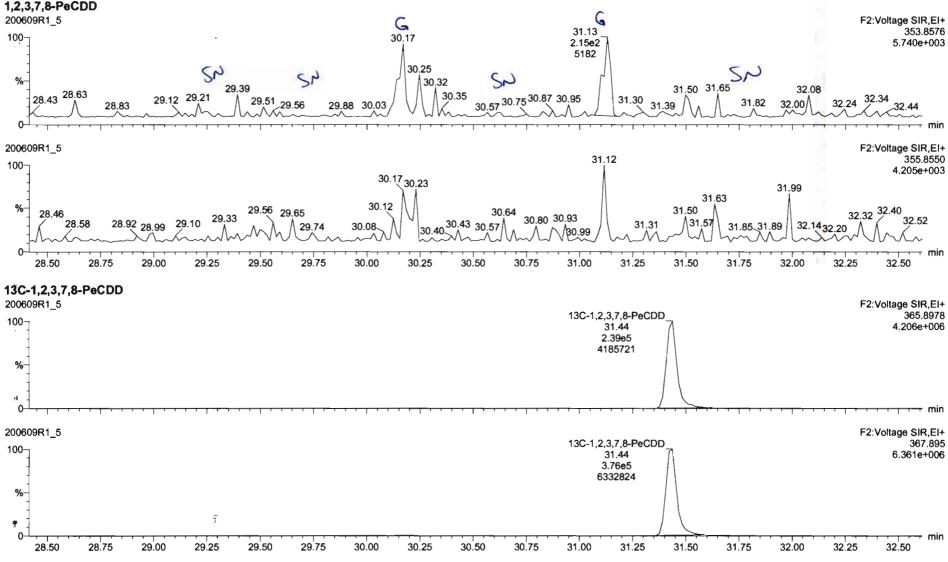


Dataset: Untitled * Last Altered: Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Printed: Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	Quantify San Vista Analytica		Page 28 of 182
	Dataset:	Untitled	

### Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

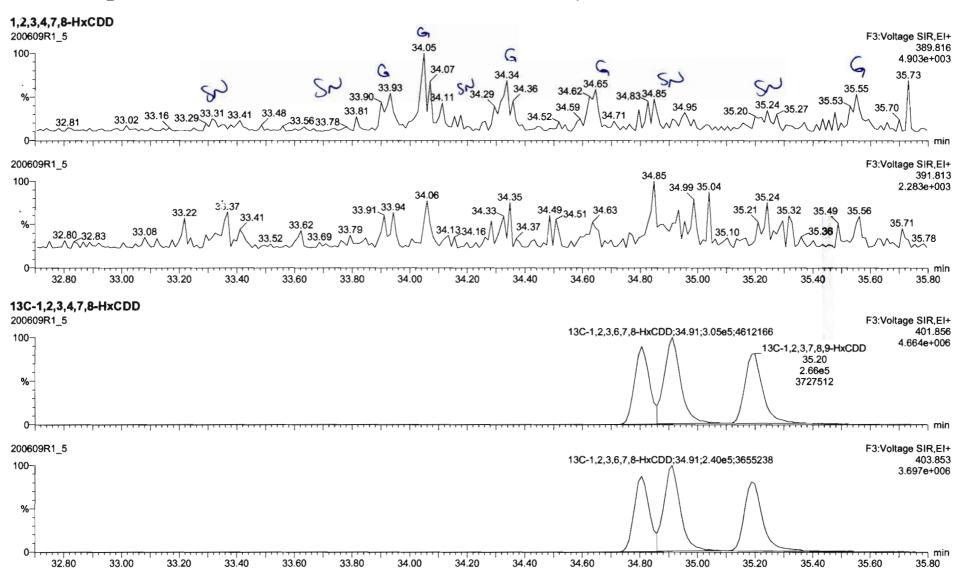


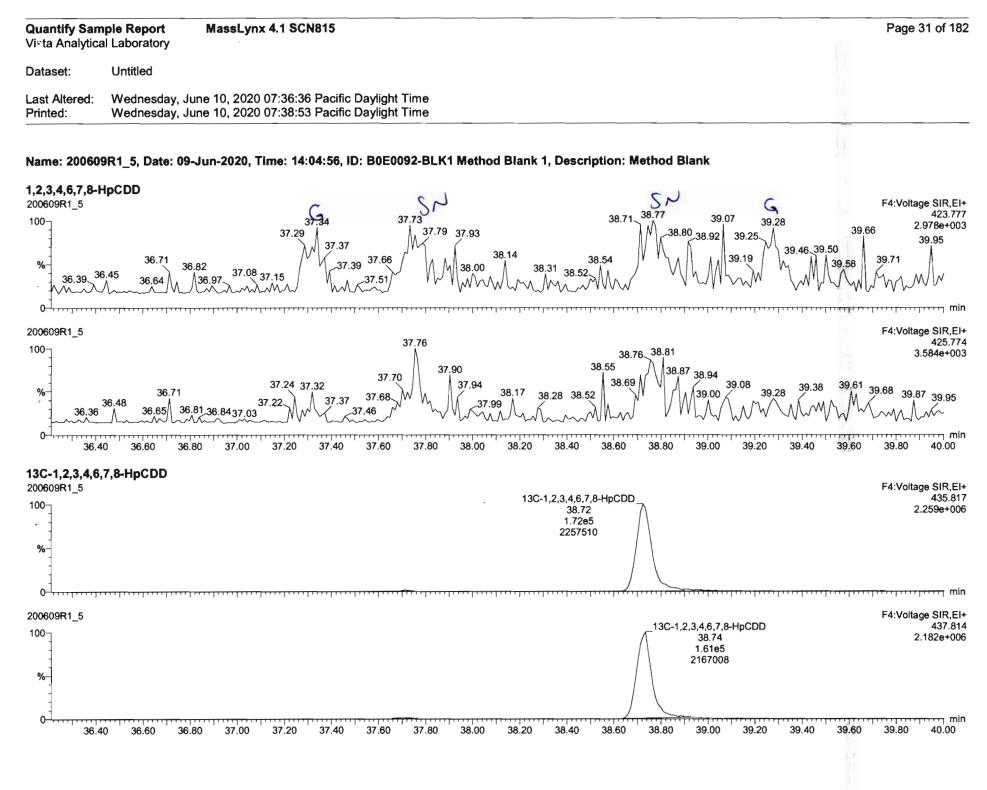
<b>Quantify Sam</b> Vista Analytica		Page 29 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	
Name: 200600	R1_5, Date: 09-Jun-2020, Time: 14:04:56, iD: B0E0092-BLK1 Method Blank 1, Description: Method Blank	
1.2.3.7.8-PeC		



Quantify Sam Vista Analytica	• •	MassLynx 4.1 SCN815	Page 30 of 182
Dataset:	Untitled		
Last Altered: Printed:		ne 10, 2020 07:36:36 Pacific Daylight Time ne 10, 2020 07:38:53 Pacific Daylight Time	

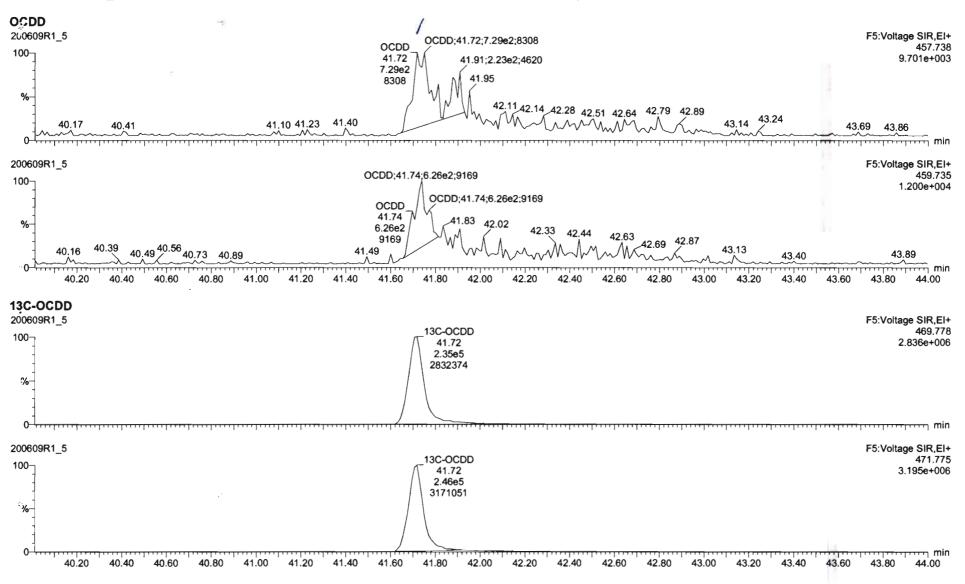
### Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

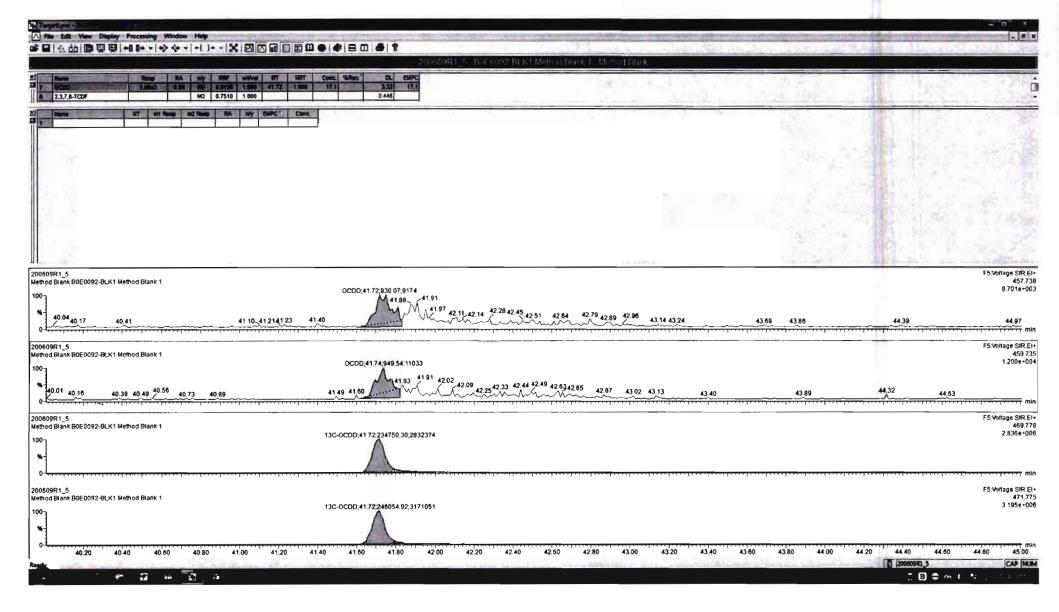


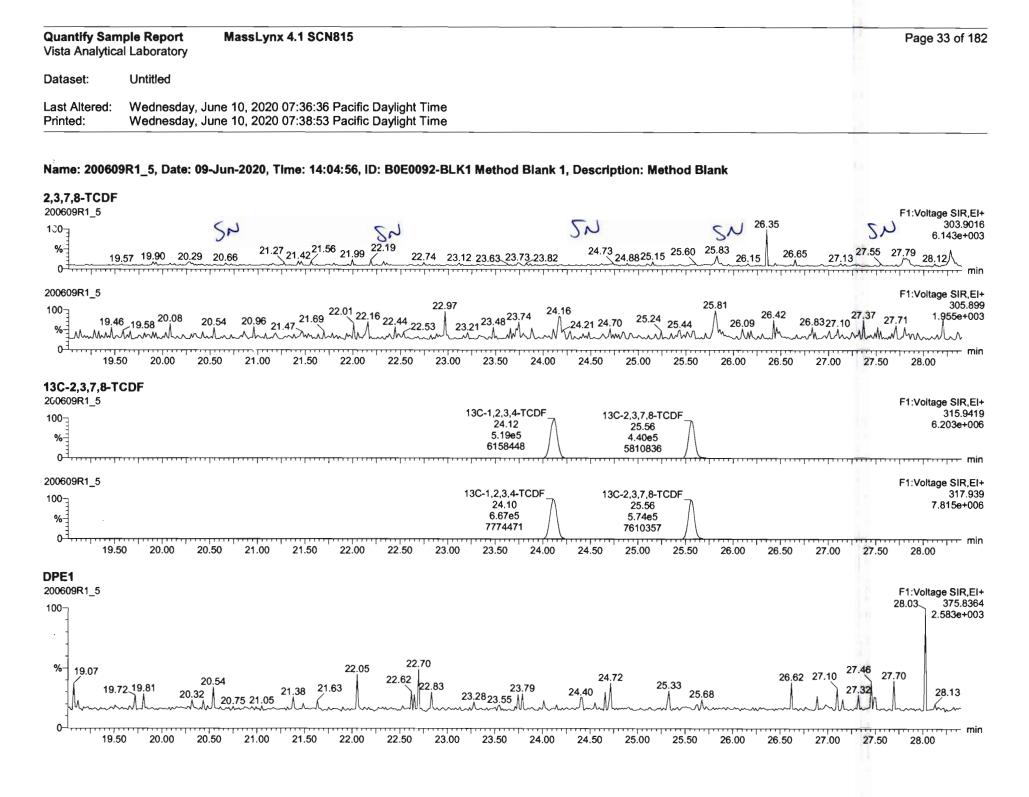


Quantify San Vista Analytica		Page 32 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	

### Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, iD: B0E0092-BLK1 Method Blank 1, Description: Method Blank

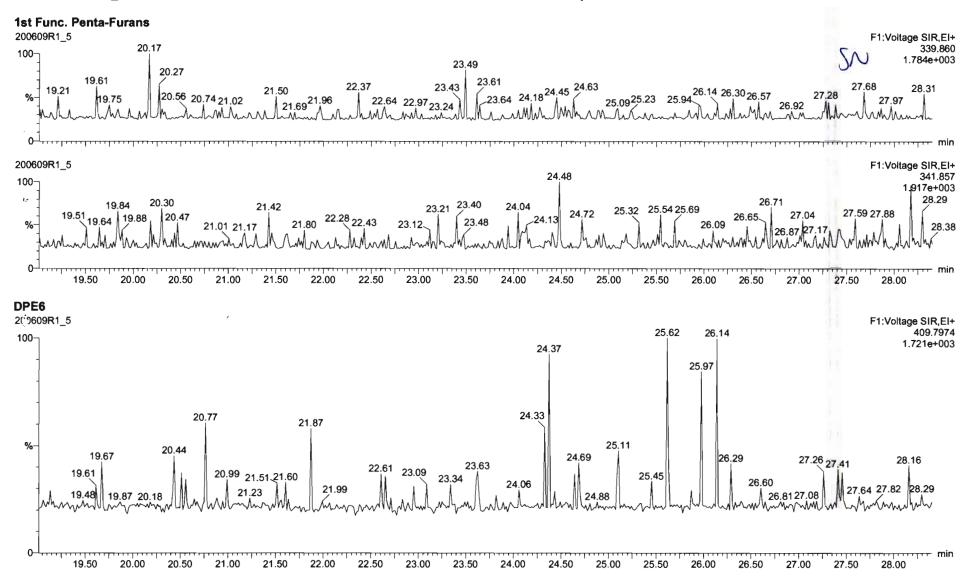






Quantify Sam Vista Analytica		Page 34 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	

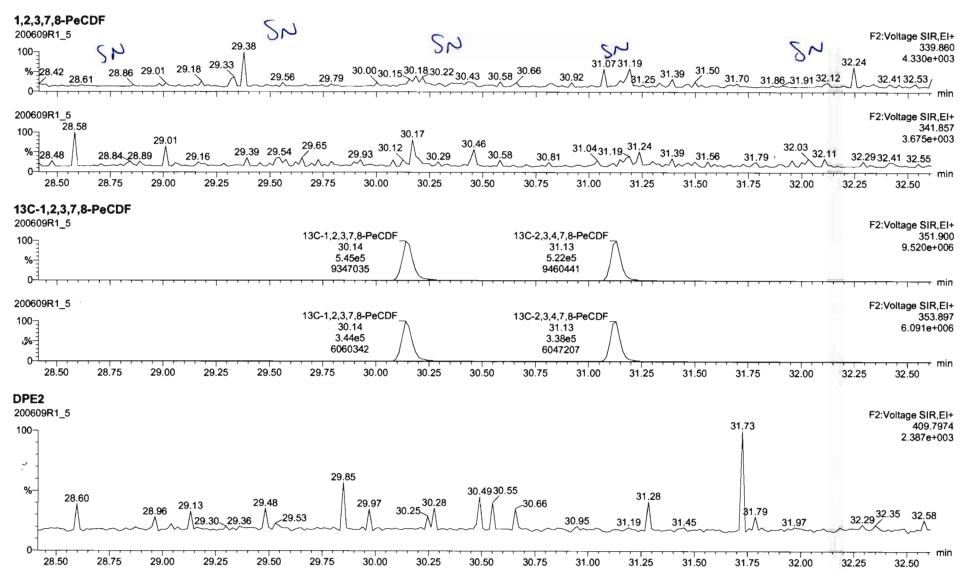
#### Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

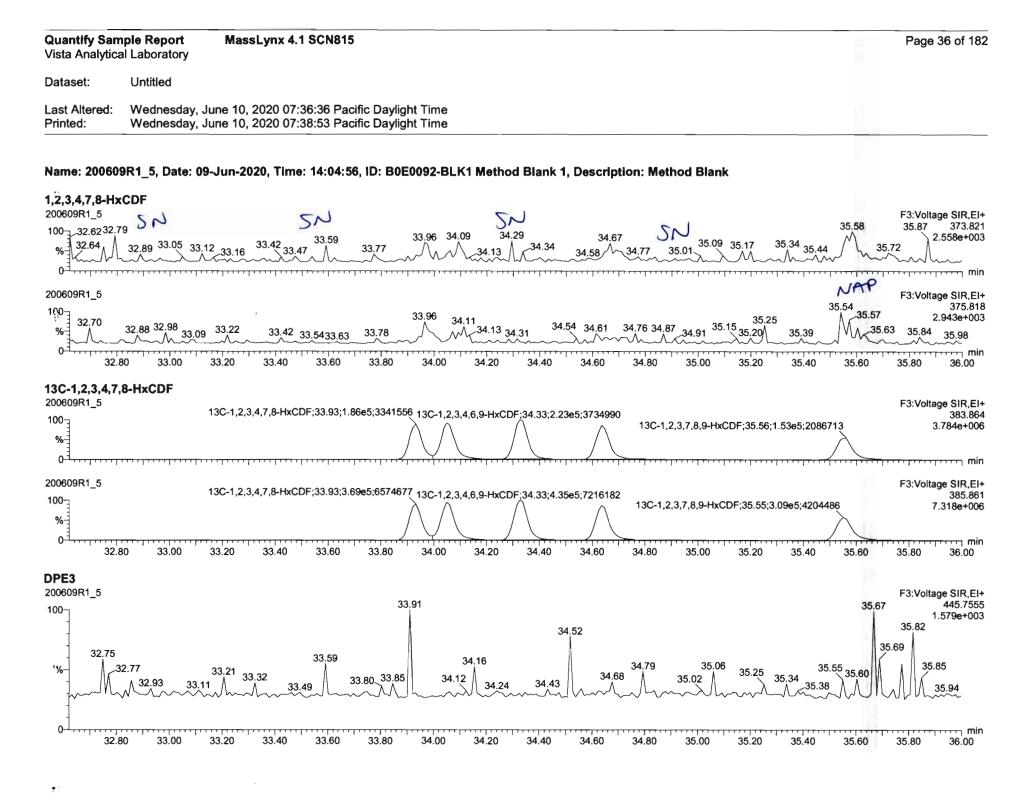


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Quantify Sam Vista Analytica		Page 35 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	

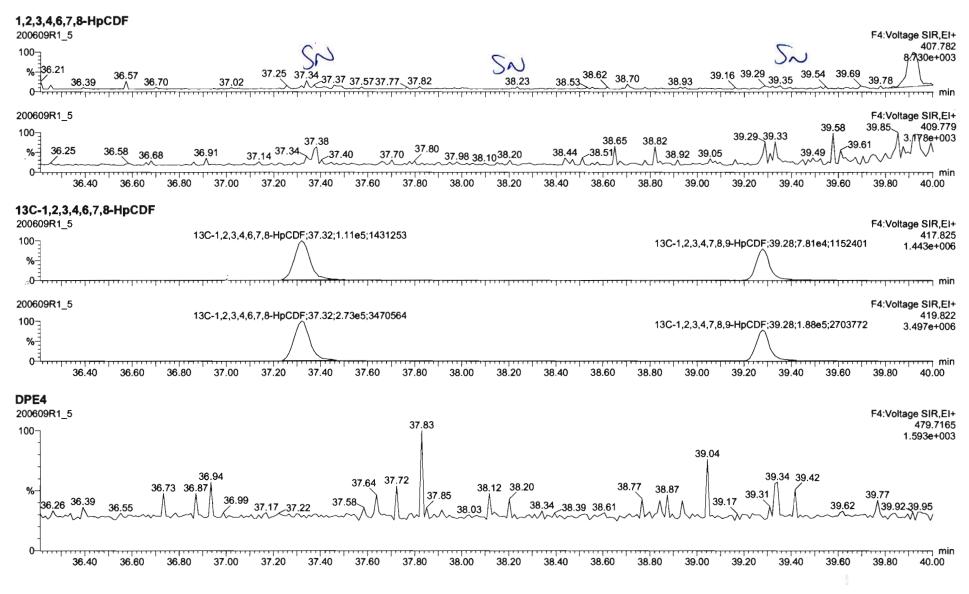
#### Nime: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank

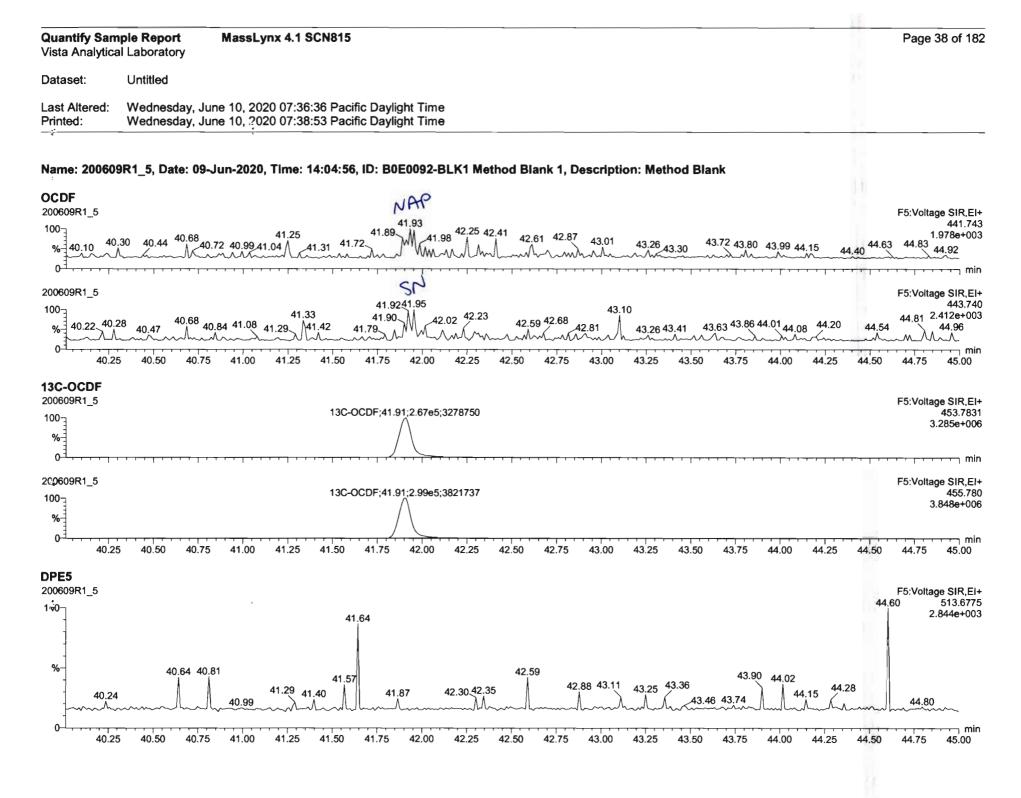




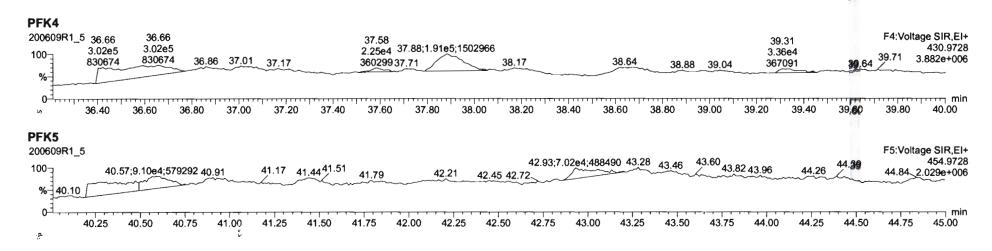
<b>Quantify Sam</b> Vista Analytica		Page 37 of 182
Dataset:	Untitled	i i i i i i i i i i i i i i i i i i i
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	

#### Name: 200609R1\_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank





ista Analytica	nple Report MassLynx 4.1 SCN815 al Laboratory	Page 39 of 18
Dataset:	Untitled	-
ast Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	
ame: 20060	9R1_5, Date: 09-Jun-2020, Time: 14:04:56, ID: B0E0092-BLK1 Method Blank 1, Description: Method Blank	
19.04	88;4.00e4;349652 20.93;3.95e3;87718 22.49 23.55;1.24e4;133020 23.88 24.19 24.51;8.06e3;129964 25.74 26.18 26.32 27.67;2.07e4;	F1:Voltage SIR,E 142992 28.01 316.982 1.097e+00
% frank 20	50 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00	27.50 28.00
FK2 00609R1_5 0028.63 %	29.06 29.36 29.59 29.88 30.09 30.15 30.25 30.58 30.64 30.93 31.07 31.21 31.27 31.39 31.50 31.99 32.08	9-636s+0
28.50	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 30.75 31.00 31.25 31.50 31.75 32.00	\$2.25 32.50



Quantify Sam Vista Analytica	aple Summary Report al Laboratory	MassLynx 4.1 SCN815	
Dataset:	U:\VG12.PRO\Results\2	200609R1\200609R1-2.qld	
Last Altered: Printed:		020 10:21:00 Pacific Daylight Time 020 10:21:22 Pacific Daylight Time	

Page 1 of 2

GPB 00/10/2020 C7 06/10/2020

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

All and	# Name	Resp	RA	n/y	RRF	wt/voi	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1 Martin Col	1 2,3,7,8-TCDD	6.86e4	0.73	NO	0.888	1.000	26.471	26.47	1.001	1.001	182.80		0.906	183
2	2 1,2,3,7,8-PeCDD	2.55e5	0.61	NO	0.908	1.000	31.442	31.45	1.001	1.001	929.91		2.22	930
3	3 1,2,3,4,7,8-HxCDD	2.16e5	1.24	NO	1.03	1.000	34.814	34.81	1.000	1.000	950.17		3.20	950
4	4 1,2,3,6,7,8-HxCDD	2.37e5	1.25	NO	0.892	1.000	34.911	34.92	1.000	1.000	985.46		3.22	985
5	5 1,2,3,7,8,9-HxCDD	2.08e5	1.22	NO	0.887	1.000	35.199	35.20	1.000	1.000	951.39		3.72	951
6	6 1,2,3,4,6,7,8-HpCDD	1.47e5	1.05	NO	0.864	1.000	38.735	38.73	1.000	1.000	985.69		3.51	986
7	7 OCDD	2.40e5	0.88	NO	0.914	1.000	41.706	41.72	1.000	1.000	1977.3		4.30	1980
8	8 2,3,7,8-TCDF	8.06e4	0.73	NO	0.751	1.000	25.582	25.57	1.001	1.001	198.42		0.711	198
9	9 1,2,3,7,8-PeCDF	3.88e5	1.56	NO	0.893	1.000	30.159	30.15	1.001	1.001	957.76		2.91	958
10	10 2,3,4,7,8-PeCDF	3.97e5	1.58	NO	0.935	1.000	31.161	31.15	1.001	1.000	947.87		2.71	948
11	11 1,2,3,4,7,8-HxCDF	2.54e5	1.21	NO	0.884	1.000	33.920	33.94	1.000	1.001	988.86		3.68	989
12	12 1,2,3,6,7,8-HxCDF	2.83e5	1.21	NO	0.889	1.000	34.058	34.06	1.000	1.000	992.69		3.36	993
13	13 2,3,4,6,7,8-HxCDF	2.77e5	1.20	NO	0.934	1.000	34.669	34.64	1.001	1.000	981.15		3.57	981
14	14 1,2,3,7,8,9-HxCDF	2.02e5	1.24	NO	0.871	1.000	35.550	35.56	1.000	1.000	944.38		5.26	944
15	15 1,2,3,4,6,7,8-HpCDF	1.75e5	0.99	NO	0.873	1.000	37.355	37.33	1.001	1.000	993.27		3.60	993
16	16 1,2,3,4,7,8,9-HpCDF	1.37e5	0.98	NO	1.01	1.000	39.277	39.29	1.000	1.000	1011.2		4.05	1010
17	17 OCDF	2.32e5	0.87	NO	0.806	1.000	41.897	41.91	1.000	1.000	1962.7		3.57	1960
18	18 13C-2,3,7,8-TCDD	8.45e5	0.75	NO	1.16	1.000	26.476	26.44	1.026	1.025	1870.8	93.5	3.10	
19	19 13C-1,2,3,7,8-PeCDD	6.04e5	0.64	NO	0.849	1.000	31.656	31.42	1.227	1.218	1822.2	91.1	3.05	
20	20 13C-1,2,3,4,7,8-HxCDD	4.40e5	1.28	NO	0.779	1.000	34.809	34.80	1.014	1.014	1754.5	87.7	4.10	
21	21 13C-1,2,3,6,7,8-HxCDD	5.38e5	1.28	NO	1.02	1.000	34.922	34.91	1.017	1.017	1645.7	82.3	3.14	
22	22 13C-1,2,3,7,8,9-HxCDD	4.92e5	1.26	NO	0.903	1.000	35.193	35.19	1.025	1.025	1694.4	84.7	3.54	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.45e5	1.05	NO	0.689	1.000	38.715	38.72	1.128	1.128	1554.7	77.7	3.80	
24	24 13C-OCDD	5.31e5	0.90	NO	0.652	1.000	41.736	41.71	1.216	1.215	2528.3	63.2	4.04	
25	25 13C-2,3,7,8-TCDF	1.08e6	0.78	NO	1.06	1.000	25.519	25.56	0.989	0.991	1756.9	87.8	4.17	
28	26 13C-1,2,3,7,8-PeCDF	9.08e5	1.59	NO	0.838	1.000	30.041	30.14	1.165	1.168	1863.4	93.2	5.23	-
27	27 13C-2,3,4,7,8-PeCDF	8.96e5	1. <b>6</b> 0	NO	0.817	1.000	30.993	31.13	1.202	1.207	1885.8	94.3	5.37	
28	28 13C-1,2,3,4,7,8-HxCDF	5.80e5	0.50	NO	1.01	1.000	33.941	33.92	0.989	0.988	1788.1	89.4	5.59	
29	29 13C-1,2,3,6,7,8-HxCDF	6.41e5	0.50	NO	1.17	1.000	34.064	34.05	0.992	0.992	1707.4	85.4	4.83	1
30	30 13C-2,3,4,6,7,8-HxCDF	6.04e5	0.51	NO	1.02	1.000	34.637	34.63	1.009	1.009	1838.0	91.9	5.51	
31	31 13C-1,2,3,7,8,9-HxCDF	4.92e5	0.49	NO	0.860	1.000	35.537	35.55	1.035	1.036	1779.4	89.0	6.55	

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

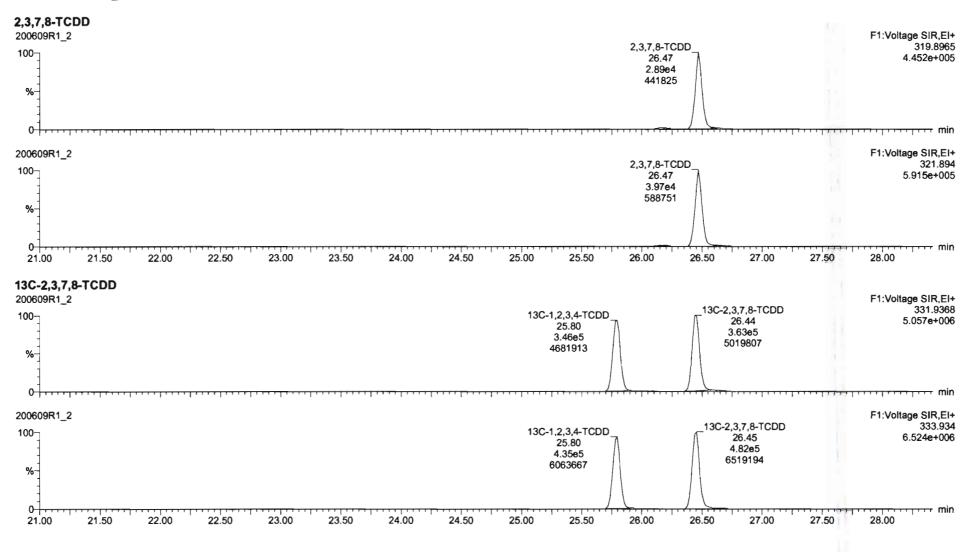
Dataset: U:\VG12.PRO\Results\200609R1\200609R1-2.qld

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Printed:	Wednesday, June 10, 2020 10:21:22 Pacific Daylight Time

1000	# 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	4.04e5	0.43	NO	0.774	1.000	37.284	37.32	1.086	1.087	1619.4	81.0	4.80	-
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.68e5	0.43	NO	0.521	1.000	39.312	39.28	1.145	1.144	1597.1	79.9	7.13	
34	34 13C-OCDF	5.86e5	0.87	NO	0.746	1.000	41.907	41.90	1.221	1.221	2442.9	61.1	3.50	
35	35 37CI-2,3,7,8-TCDD	3.28e5			1.04	1.000	26.507	26.47	1.028	1.026	810.48	101	0.745	
36	36 13C-1,2,3,4-TCDD	7.81e5	0.80	NO	1.00	1.000	25.890	25.80	1.000	1.000	2000.0	100	3.59	
37	37 13C-1,2,3,4-TCDF	1.16e6	0.78	NO	1.00	1.000	24.360	24.10	1.000	1.000	2000.0	100	4.41	
38	38 13C-1,2,3,4,6,9-HxCDF	6.44e5	0.51	NO	1.00	1.000	34.420	34.33	1.000	1.000	2000.0	100	5.63	

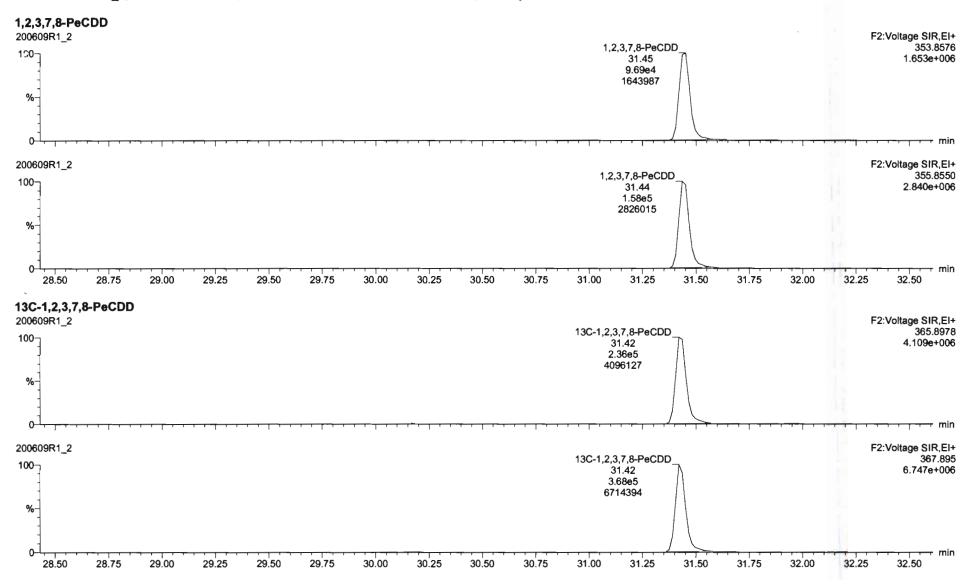
Quantify Sam Vista Analytica		Page 1 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	

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

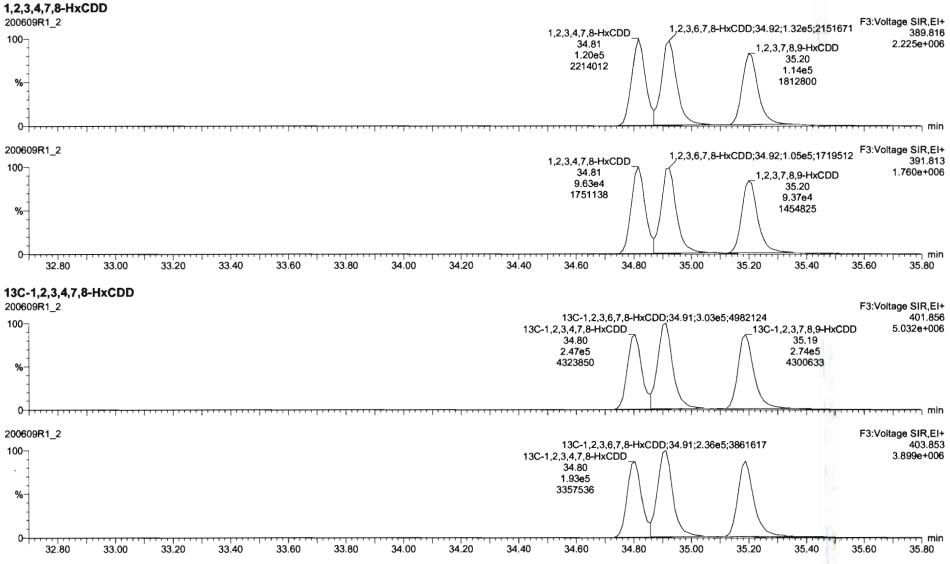


Quantify San /ista Analytica				Page 2 of 182
Dataset:	Untitled			
ast Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time			
lame: 20060	9R1_2, Date: 09-Jun-2020, Time: 11:45:38, ID: B0E0092-BS1 OPR	1, Description: OPR		
7CI-2,3,7,8-1 00609R1_2	CDD			F1:Voltage SIR,EI+
100		37Cl-2,3, 26 3.2 482(	.47 8e5	327.884 4.848e+006
-				
- 1				
%-				
-				
-				
0 21.00	21.50 22.00 22.50 23.00 23.50 24.00 24.	50 25.00 25.50 26.0	0 26.50 27.00 27.5	0 28.00 min
I <b>3C-1,2,3,4-T</b> 200609R1_2	CDD			F1:Voltage SIR,EI+
100_		13C-1,2,3,4-TCDD 25.80	13C-2,3,7,8-TCDD 26.44 3.63e5	331.9368 5.057e+006
- %		3.46e5 4681913	5019807	
0++++++++++++++++++++++++++++++++++++++		····		
200609R1_2 100		13C-1,2,3,4-TCDD 25.80 4.35e5 6063667	13C-2,3,7,8-TCDD 26.45 4.82e5 6519194	F1:Voltage SIR,EI+ 333.934 6.524e+006
<b>%</b>				
% 0	21.50 22.00 22.50 23.00 23.50 24.00 24.	4.35e5 6063667	6519194	0 28.00

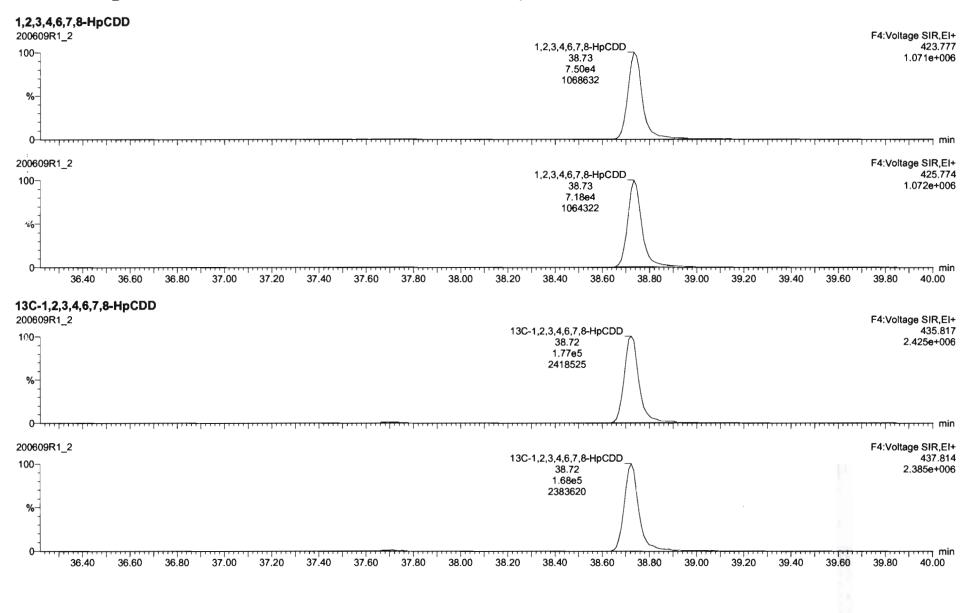
Quantify San Vista Analytica		Page 3 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	



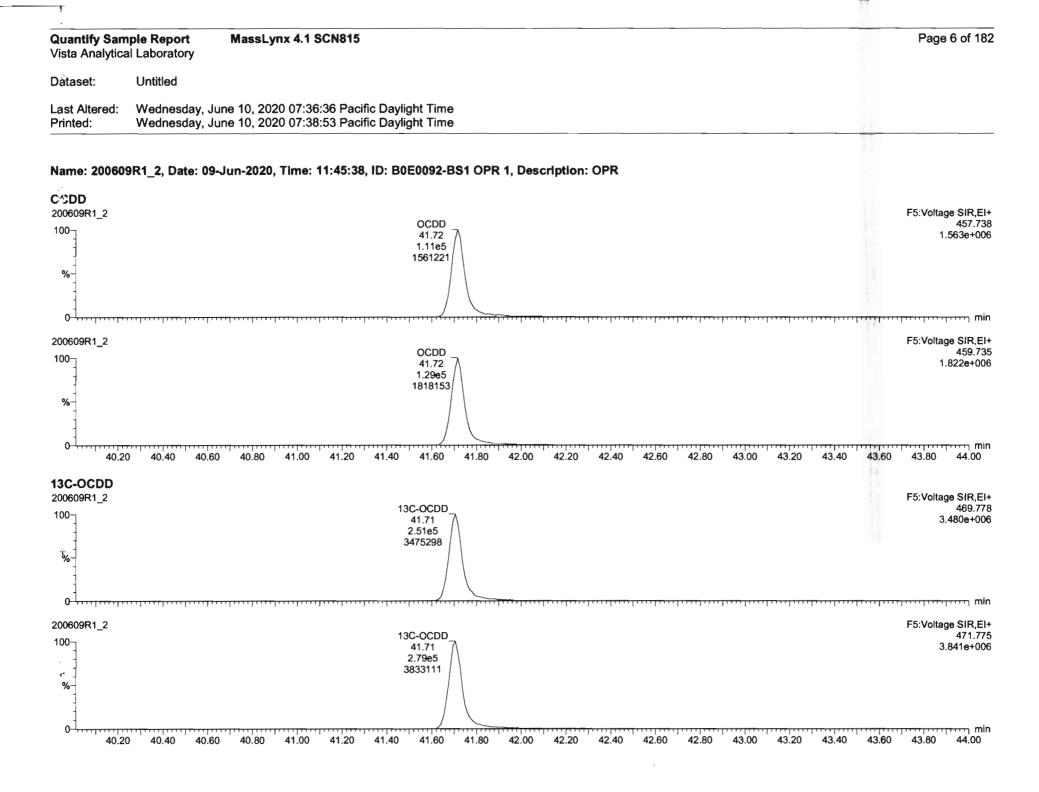
Quantify San Vista Analytica		Page 4 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	

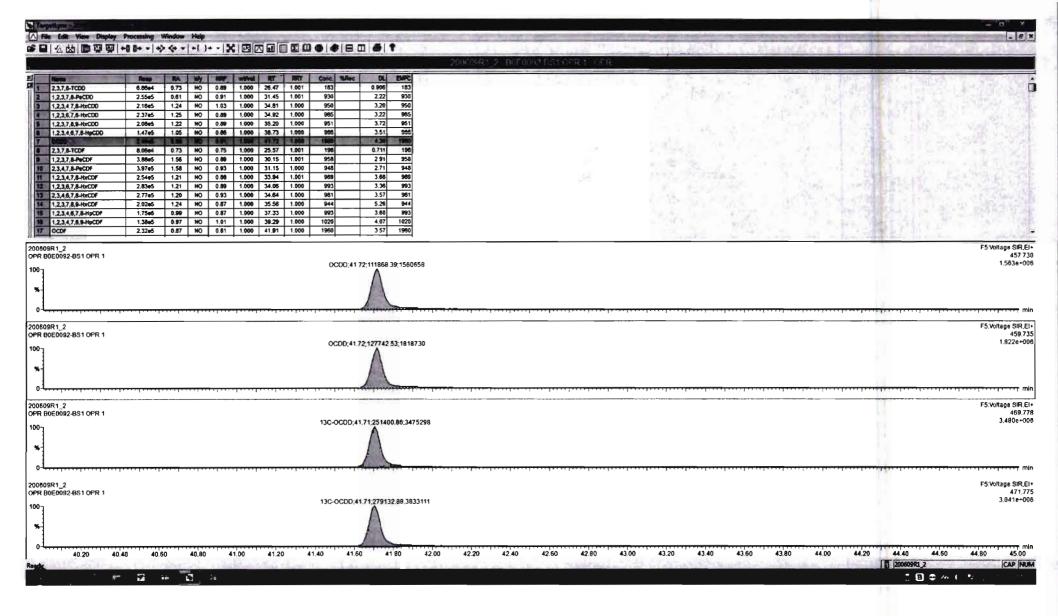


Quantify Sam Vista Analytica		Page 5 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	



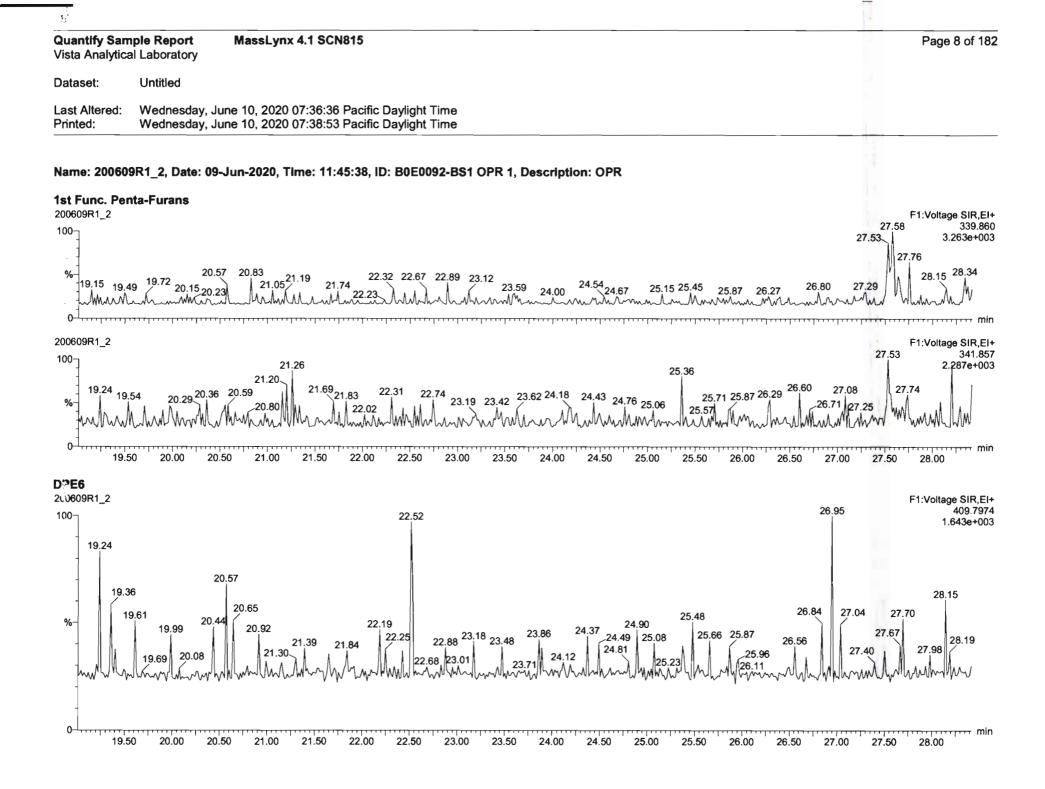
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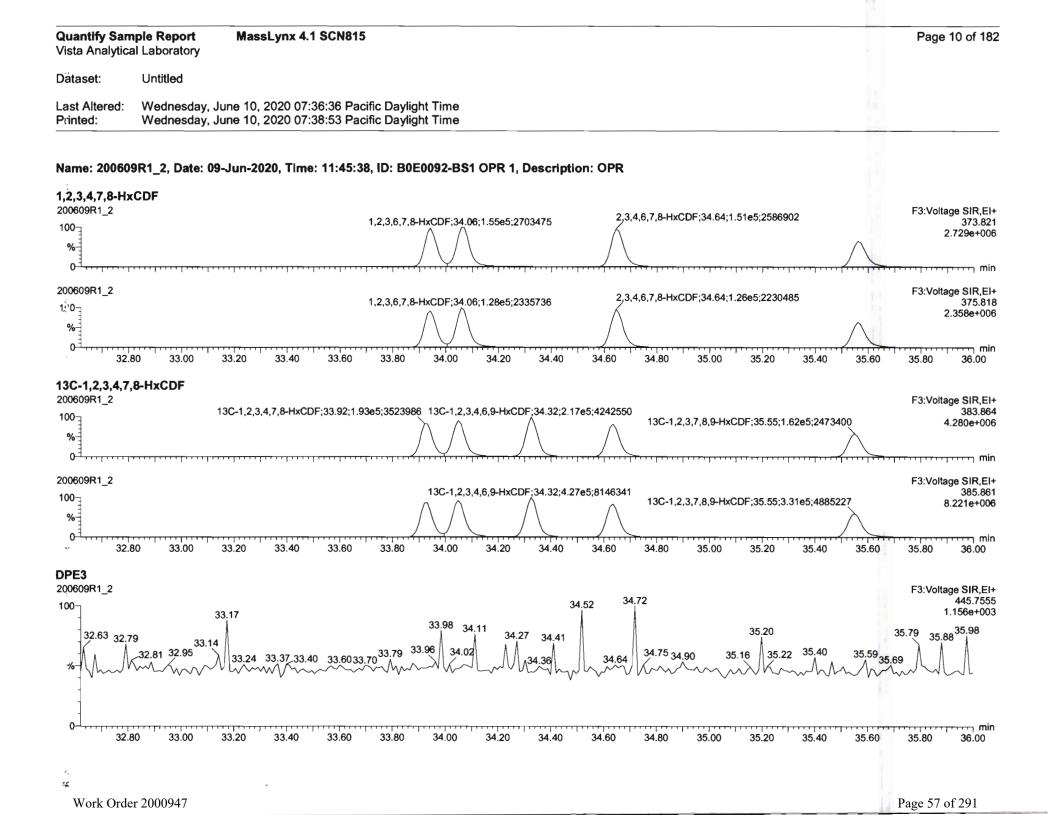


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ista Analytic	nple Report MassLynx 4.1 SCN815 al Laboratory	Page 7 of 18
ataset:	Untitled	
ast Altered: rinted:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	
ame: 20060 3,7,8-TCDF	9R1_2, Date: 09-Jun-2020, Time: 11:45:38, ID: B0E0092-BS1 OPR 1, Description: OPR	
00609R1_2	2,3,7,8-TCDF 25.57 3.41e4 447569	F1:Voltage SIR,E 303.901 4.491e+00
0 <sup></sup>	2,3,7,8-TCDF 25.57 4.65e4 605920	F1:Voltage SIR,E 305.89 6.075e+00
19 <b>3C-2,3,7,8-</b> 1 00609R1_2 00 <sub>3</sub>		27.50 28.00 F1:Voltage SIR,E 315.941 6.338e+00
%		0.0000100
% 0 00609R1_2 %		F1:Voltage SIR,E 317.93
0 <sup>4</sup> , 00609R1_2 00 0 <sup>4</sup> , 0 <sup>4</sup> , 19	13C-1,2,3,4-TCDF;24.10;6.53e5;7699739 13C-2,3,7,8-TCDF 25.56 6.09e5 8120035	F1:Voltage SIR,E 317.93 8.191e+00 27,50 28.00
0 <sup>4</sup> , 00609R1_2 0 <sup>4</sup> , 0 <sup>4</sup> , 0 <sup>4</sup> , 19 <b>PE1</b> 00609R1_2	6286201 13C-1,2,3,4-TCDF;24.10;6.53e5;7699739 13C-2,3,7,8-TCDF 25.56 6.09e5 8120035 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 26.69	F1:Voltage SIR,E 317.93 8.191e+00 27.50 28.00 F1:Voltage SIR,E 375.836
0 <sup>1</sup>	13C-1,2,3,4-TCDF;24.10;6.53e5;7699739 13C-2,3,7,8-TCDF 25.56 6.09e5 8120035 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	F1:Voltage SIR,E 317.93 8.191e+00 27.50 28.00 F1:Voltage SIR,E

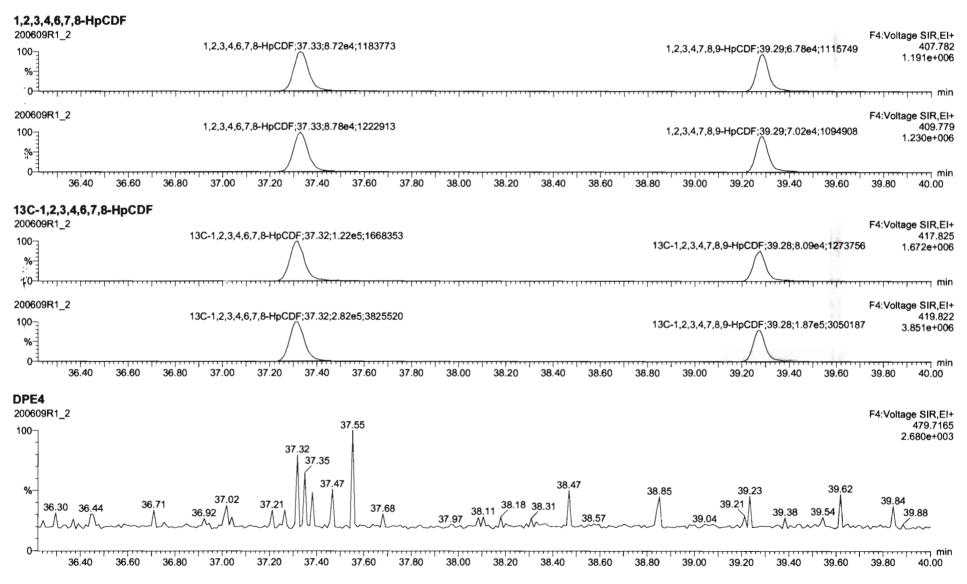


Q <b>ાantify Sam</b> /ista Analytica		4.1 SCN815			Page 9 of 18
Dataset:	Untitled				
ast Altered: Printed:		07:36:36 Pacific Daylight Time 07:38:53 Pacific Daylight Time			
ame: 200609	R1_2, Date: 09-Jun-2020, Ti	me: 11:45:38, ID: B0E0092-BS1 OF	R 1, Description: OPR		
<b>,2,3,7,8-PeCl</b> 06609R1_2	DF				F2:Voltage SIR,E
00 %		1,2,3,7,8-PeCDF 30.15 2,36e5 4045435	2,3,4,7,8-PeCDF 31.15 2.43e5 4306104		339.8 4.325e+0
0 00609R1_2		1,2,3,7,8-PeCDF 30.15 1.52e5 2676183	2,3,4,7,8-PeCDF 31.13 1.54e5 2806636		F2:Voltage SIR, 341. 2.823e+(
0 <sup>1</sup> 28.50	28.75 29.00 29.25	29.50 29.75 30.00 30.25	30.50 30.75 31.00 31.25	31.50 31.75 32.00	32.25 32.50
<b>3C-1,2,3,7,8-</b> 20609R1_2	PeCDF	13C-1,2,3,7,8-PeCDF 30.14 5,57e5 9555889	13C-2,3,4,7,8-PeCDF 31.13 5.51e5 9812642		F2:Voltage SIR, 351.( 9.850e+(
0609R1_2		13C-1,2,3,7,8-PeCDF 30.14 3.51e5 6327929	13C-2,3,4,7,8-PeCDF 31.11 3.45e5 6078084		F2:Voltage SIR 353. 6.353e+
28.50	28.75 29.00 29.25	29.50 29.75 30.00 30.25	30.50 30.75 31.00 31.25	31.50 31.75 32.00	32.25 32.50
PE2 )0609R1_2 00 28.5428.6 	28.84 28.99 <sub>29.06</sub> 29.21 25	30.12 29.96 29.73 29.56 29.88 30.09 30.29 30.29	30.60 30.67 30.44 30.73 30.93 31.19 31.36 30.73 30.93	$\begin{array}{c} 31.45 \\ 31.56 \\ 31.59 \\ 31.83 \\ 31.71 \\ 31.71 \\ 32.14 \\ 32.14 \end{array}$	F2:Voltage SIR, 409.79 1.723e+( 2.17 32.41 32.26
28.50	28.75 29.00 29.25	29.50 29.75 30.00 30.25	30.50 30.75 31.00 31.25	31.50 31.75 32.00	32.25 32.50

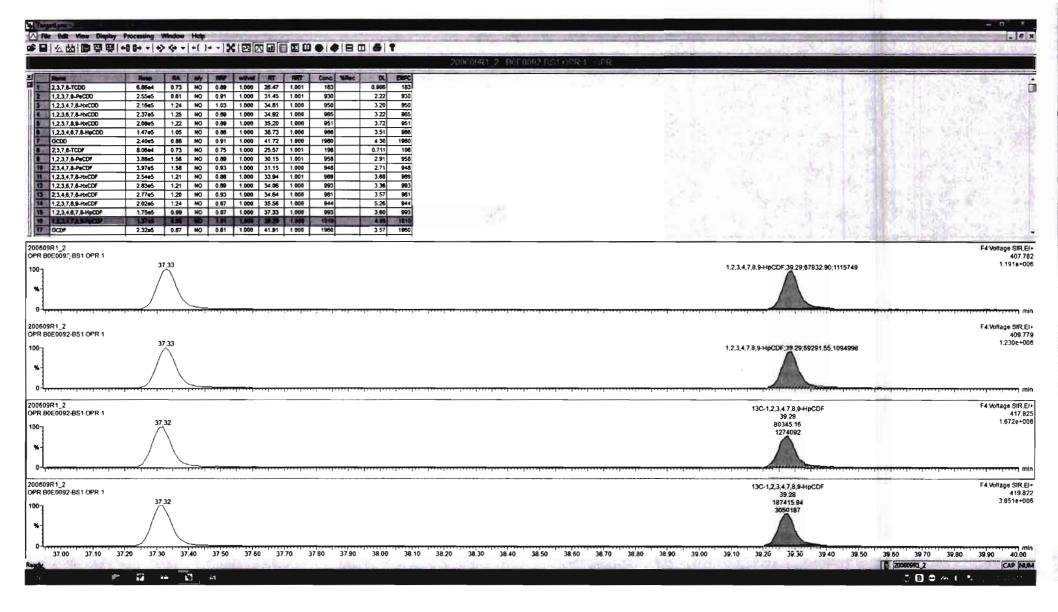


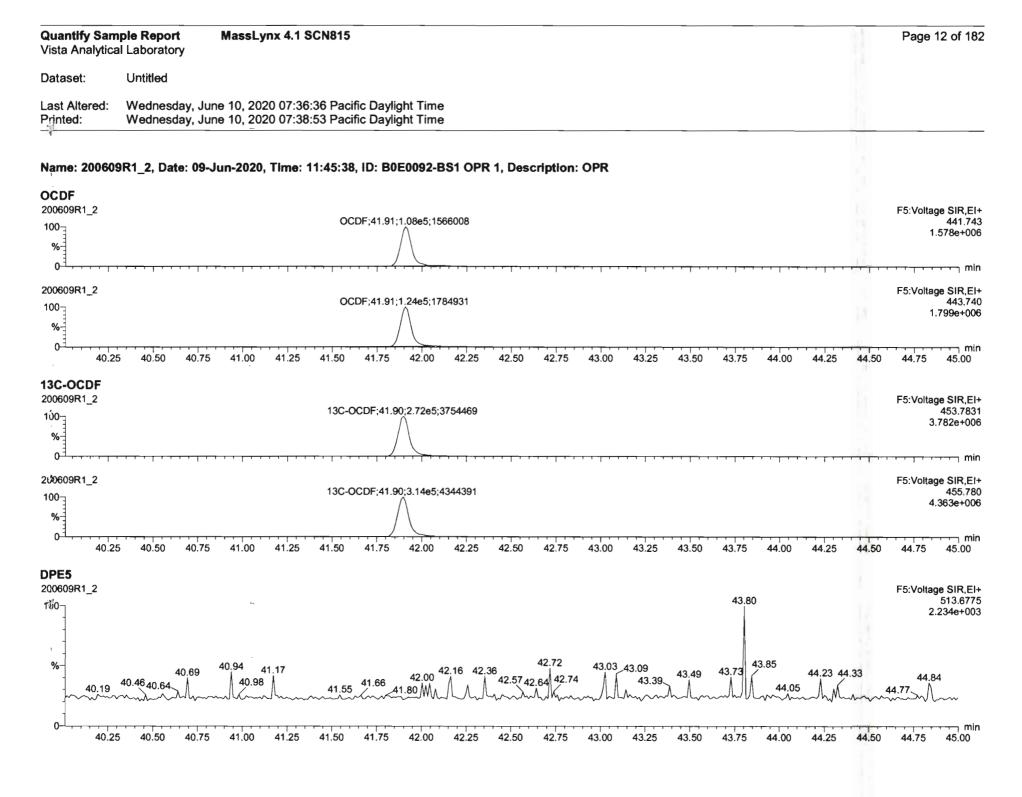
Quantify Sam Vista Analytica	• •	sLynx 4.1 SCN815	Page 11 of 182
Dataset:	Untitled		
Last Altered: Printed:		2020 07:36:36 Pacific Daylight Time 2020 07:38:53 Pacific Daylight Time	

#### Name: 200609R1\_2, Date: 09-Jun-2020, Time: 11:45:38, ID: B0E0092-BS1 OPR 1, Description: OPR



Work Order 2000947





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	n <b>ple Report</b> al Laboratory	MassLynx 4.1 S	614015								Page 13 of 18
ataset:	Untitled										
ast Altered: rinted:		June 10, 2020 07:36: June 10, 2020 07:38:									
·.										Q.	
ame: 20060	9R1_2, Date: 0	9-Jun-2020, Time: 1	1:45:38, ID: B0E0	092-BS1 OPR	1, Descriptio	n: OPR					
FK1 00609R1_2											
	20.02;6.30e4;7672	59 21.71;2.3	36e4;181284 22.77;5.	29e4;327591 23	3.42;4.28 <del>e</del> 4;2613(	)4 25.12;1.65 <b>e</b>	4;214275		27.62;6.86e4	476705	F1:Voltage SIR,E 316.98
0 <sup>1</sup>	50 20.00 2	20.50 21.00 21.50	22.00 22.50	23.00 23.	50 24.00	24.50 25.00	25.50	26.00 26	50 27.00	27.50	28.00
F <b>K2</b> 0609R1_2											F2:Voltage SIR,E
_	7e5;740630	29.33 29.57;1.356	4;235776 29.77	30.09 30.35	30.44 30.58	69 30.99 31.	<sup>22</sup> 31.30 31.	47_31.51_31.6	3 31.97 32.0	5 32.:	
0 <sup>1</sup>	28.75 29.00	29.25 29.50	29.75 30.00	30.25	30.50 30.7	5 31.00	31.25 3	1.50 31.	75 32.00	32.2	25 32.50
-0.00											
<b>K</b> 3		28.25 28.55			00.00	0 01.00	0.120				.0 02.00
0609R1_2			33 85-4 1704-54						05.45		F3:Voltage SIR,I
0609R1_2		5;1615440 33.37 33.48	33.85;4.17e4;54			34.59 34.64	34.95	35.14	35.45	35.69	F3:Voltage SIR,I 35.79 380.97
0609R1_2			33.85;4.17e4;54						35.45		F3:Voltage SIR, I 35.79 380.97 <del>7.000e</del> +0
0609R1_2	33.10;7.74e5	5;1615440 33.37 33.48	33.85;4.17e4;54 33.60 33.80		34.28 34.46		34.95				F3:Voltage SIR,I 35.79 380.97 7:000e+0
0609R1_2 32.74 0 32.74 32.74	33.10;7.74e5	5;1615440 33.37 33.48		43322	34.28 34.46	34.59 34.64	34.95	35.14		35.69	F3:Voltage SIR,I 35.79 380.97 7.900e+0 7.900e+0 35.80 36.00
0609R1_2 %32.74 0 32.4 <b>FK4</b> 0609R1_2	33.10;7.74e5	33.20 33.40		43322	34.28 34.46 	34.59 34.64	34.95 0 35.00	<u>35.14</u> 		35.69	F3:Voltage SIR, 35.79 380.97 7.000e+0 7.000e+0 55.80 36.00 F4:Voltage SIR, 430.97
0609R1_2 32.74 0 32.74 0 32.74 32.74 32.74 0 32.74 0 32.74 0 32.74	33.10;7.74e5	33.20 33.40 33.40 33.40 33.40 33.40 33.40 33.40	33.60 33.80	43322 34.00 34.20	34.28 34.46 	34.59 <sup>34.64</sup> 34.60 34.80	34.95 0 35.00	35.14 35.20	35.40 3	35.69	F3:Voltage SIR, 35.79 380.97 7.000e+0 7.000e+0 55.80 36.00 F4:Voltage SIR, 430.97
0609R1_2 %	33.10;7.74e5 30 33.00 36.67;7.02e5;197	4561 37.17	33.60 33.80 37.52	43322 34.00 34.20 37.76 <sup>38.03;1.20e</sup>	34.28 34.46 34.40 34.40 35;1072319	34.59 <sup>34.64</sup> 34.60 34.80 38.44 38.5738.6	34.95 0 35.00	<u>35.14</u> 35.20 <u>39.04</u>	35.40 3 39.28	35.69 	F3:Voltage SIR,I 35.79 380.97 7.000e+0 7.0000e+0 7.00000000000000000000000000000000000
0609R1_2 32.74 32.74 0 5K4 0609R1_2 0 4 36.44	33.10;7.74e5 30 33.00 36.67;7.02e5;197	33.20 33.40 33.40 33.40 33.40 33.40 33.40 33.40	33.60 33.80	43322 34.00 34.20	34.28 34.46 34.40 34.40 35;1072319	34.59 <sup>34.64</sup> 34.60 34.80	34.95 0 35.00	35.14 35.20 39.04	35.40 3 39.28	35.69 5.60 39.61	F3:Voltage SIR,E 35.79 380.97 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0
0609R1_2 % 32.74 0 32.74 0 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 5K4 0609R1_2 0 5K4 0 36.44 5K5	33.10;7.74e5 30 33.00 36.67;7.02e5;197	4561 37.17	33.60 33.80 37.52	43322 34.00 34.20 37.76 <sup>38.03;1.20e</sup>	34.28 34.46 34.40 35;1072319 0 38.20	34.59 <sup>34.64</sup> 34.60 34.80 38.44 38.5738.6	34.95 35.00 35.00 38 38.80 3	<u>35.14</u> 35.20 <u>39.04</u>	35.40 3 39.28	35.69 	F3:Voltage SIR,E 35.79 380.97 7:000e+0 7:0000e+0 7:0000e+0 7:00000000000000000000000000000000000
0609R1_2 % 32.74 0 <b>5K4</b> 0609R1_2 0 <b>5K5</b> 0609R1_2 0 <b>5K5</b> 0609R1_2 0 <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>	33.10;7.74e5 30 33.00 36.67;7.02e5;197	5:1615440       33.37       33.48         33.20       33.40         4561       37.17         3.80       37.00       37.20	33.60 33.80 37.52	43322 34.00 34.20 37.76 <sup>38.03;1.20e</sup> 37.80 38.00	34.28 34.46 34.40 34.40 95;1072319 0 38.20	34.59 <sup>34.64</sup> 34.60 34.80 38.44 38.5738.6	34.95 35.00 35.00 38 38.80 3	<u>35.14</u> 35.20 <u>39.04</u> 9.00 <u>39.2</u>	39.28 0 39.40	35.69 5.60 39.61 39.60	F3:Voltage SIR,E 35.79 380.97 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0 7.000e+0
<b>FK4</b> 0 32.1 <b>FK4</b> 0 0 	33.10;7.74e5 30 33.00 36.67;7.02e5;197 30 36.60 30	5;1615440 33.37 33.48 33.20 33.40 4561 37.17 3.80 37.00 37.20	33.60 33.80 37.52 37.40 37.60	43322 34.00 34.20 37.76 <sup>38.03;1.20e</sup> 37.80 38.00	34.28 34.46 34.40 45;1072319 0 38.20	34.59 <sup>34.64</sup> 34.60 34.80 38.44 38.5738.6	34.95 35.00 38 38.80 3	<u>35.14</u> 35.20 <u>39.04</u> 9.00 <u>39.2</u>	39.28 0 39.40	35.69 5.60 39.61 39.60	F3:Voltage SIR, F3:Voltage SIR, F3:Voltage SIR, F3:Voltage SIR, F4:Voltage SIR, F4:Voltage SIR, F4:Voltage SIR, F4:Voltage SIR, F5:Voltage SIR

Quantify Sam Vista Analytica	ple Summary Report I Laboratory	MassLynx 4.1 SCN815
Dataset:	U:\VG12.PRO\Results\200	609R1\200609R1-7.qld
Last Altered: Printed:		0 11:01:32 Pacific Daylight Time 0 11:02:20 Pacific Daylight Time

GPB 06/10/2020 C7 06/11/2020

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

TRACK AT	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Cono	%Rec	DL TONY	EMPC
	1 2,3,7,8-TCDD			NO	0.888	0.981 🖌	26.486		1.001				0.594	
2	2 1,2,3,7,8-PeCDD			NO	0.908	0.981	31.457		1.001				0.658	
	3 1,2,3,4,7,8-HxCDD			NO	1.03	0.981	34.814		1.000				0.685	
	4 1,2,3,6,7,8-HxCDD			NO	0.892	0.981	34.911		1.000				0.670	
	5 1,2,3,7,8,9-HxCDD			NO	0.887	0.981	35.199		1.000				0.822	
	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	0.981	38.735		1.000				2.26	
7	7 OCDD	1.72e3	1.01	NO	0.914	0.981	41.706	41.73	1.000	1.001	15.665		3.30	15.7
8	8 2,3,7,8-TCDF			NO	0.751	0.981	25.582		1.001				0.367	
	9 1,2,3,7,8-PeCDF			NO	0.893	0.981	30.159		1.001				0.407	
10 -	10 2,3,4,7,8-PeCDF			NO	0.935	0.981	31.161		1.001				0.366	
	11 1,2,3,4,7,8-HxCDF			NO	0.884	0.981	33.931		1.000				0.516	
	12 1,2,3,6,7,8-HxCDF			NO	0.889	0.981	34.058		1.000				0.493	
	13 2,3,4,6,7,8-HxCDF			NO	0.934	0.981	34.669		1.001				0.523	
	14 1,2,3,7,8,9-HxCDF			NO	0.871	0.981	35.550		1.000				0.797	
	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	0.981	37.355		1.001				0.827	
	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	0.981	39.277		1.000				0.906	
	17 OCDF			NO	0.806	0.981	41.897		1.000				1.23	
	18 13C-2,3,7,8-TCDD	8.19e5	0.78	NO	1.16	0.981	26.476	26.45	1.026	1.026	1971.0	96.7	2.54	
	19 13C-1,2,3,7,8-PeCDD	5.99e5	0.62	NO	0.849	0.981	31.656	31.43	1.227	1.219	1965.8	96.4	3.53	
	20 13C-1,2,3,4,7,8-HxCDD	4.07e5	1.29	NO	0.779	0.981	34.809	34.80	1.014	1.014	1849.2	90.7	7.31	
	21 13C-1,2,3,6,7,8-HxCDD	5.20e5	1.27	NO	1.02	0.981	34.922	34.91	1.017	1.017	1808.3	88.7	5.60	
	22 13C-1,2,3,7,8,9-HxCDD	4.57e5	1.26	NO	0.903	0.981	35.193	35.19	1.025	1.025	1790.2	87.8	6.31	
	23 13C-1,2,3,4,6,7,8-HpCDD	3.15e5	0.97	NO	0.689	0.981	38.715	38.72	1.128	1.128	1615.2	79.2	4.81	
	24 13C-OCDD	4.91e5	0.88	NO	0.652	0.981	41.736	41.71	1.216	1.215	2660.0	65.2	5.23	
	25 13C-2,3,7,8-TCDF	1.01e6	0.79	NO	1.06	0.981	25.519	25.56	0.989	0.991	1916.1	94.0	3.27	
	26 13C-1,2,3,7,8-PeCDF	8.65e5	1.61	NO	0.838	0.981	30.041	30.14	1.165	1.168	2073.4	102	4.61	
- AN	27 13C-2,3,4,7,8-PeCDF	8.57e5	1.59	NO	0.817	0.981	30.993	31.13	1.202	1.207	2108.9	103	4.74	
	28 13C-1,2,3,4,7,8-HxCDF	5.19e5	0.49	NO	1.01	0.981	33.941	33.93	0.989	0.989	1819.8	89.3	7.86	
	29 13C-1,2,3,6,7,8-HxCDF	5.82e5	0.49	NO	1.17	0.981	34.064	34.05	0.992	0.992	1763.2	86.5	6.78	
	30 13C-2,3,4,6,7,8-HxCDF	5.41e5	0.52	NO	1.02	0.981	34.637	34.63	1.009	1.009	1872.9	91.9	7.75	
	31 13C-1,2,3,7,8,9-HxCDF	4.28e5	0.48	NO	0.860	0.981	35.537	35.55	1.035	1.036	1762.5	86.5	9.21	

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

### Dataset: U:\VG12.PRO\Results\200609R1\200609R1-7.qld

Last Altered:	Wednesday, June 10, 2020 11:01:32 Pacific Daylight Time
Printed:	Wednesday, June 10, 2020 11:02:20 Pacific Daylight Time

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	*:%Rec	17.1.1 20 42 DL ST 4	EMPC
32 8	32 13C-1,2,3,4,6,7,8-HpCDF	3.67e5	0.42	NO	0.774	0.981	37.284	37.32	1.086	1.087	1673.3	82.1	5.21	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.39e5	0.40	NO	0.521	0.981	39.312	39.28	1.145	1.144	1619.1	79.4	7.74	
34 🐥	34 13C-OCDF	5.31e5	0.91	NO	0.746	0.981	41.907	41.90	1.221	1.221	2518.6	61.8	5.15	
35 🖌	35 37CI-2,3,7,8-TCDD	3.19e5			1.04	0.981	26.507	26.47	1.028	1.026	857.12	105	0.635	
<b>36</b>	36 13C-1,2,3,4-TCDD	7.32e5	0.80	NO	1.00	0.981	25.890	25.80	1.000	1.000	2038.5	100	2.94	
37	37 13C-1,2,3,4-TCDF	1.01e6	0.78	NO	1.00	0.981	24.360	24.10	1.000	1.000	2038.5	100	3.46	
38	38 13C-1,2,3,4,6,9-HxCDF	5.77e5	0.51	NO	1.00	0.981	34.420	34.33	1.000	1.000	2038.5	100	7.92	
39	39 Total Tetra-Dioxins				0.888	0.981	24.620		0.000				0.322	
40	40 Total Penta-Dioxins				0.908	0.981	29.960		0.000				. 0.327	Í
41-56	41 Total Hexa-Dioxins				0.892	0.981	33.635		0.000				0.378	
<b>e</b> .	42 Total Hepta-Dioxins				0.864	0.981	37.640		0.000				1.31	
43	43 Total Tetra-Furans				0.751	0.981	23.610		0.000		0.00000		0.212	0.396
	44 1st Func. Penta-Furans				0.893	0.981	27.580		0.000				0.0821	
45	45 Total Penta-Furans				0.893	0.981	29.275		0.000				0.187	
48	46 Total Hexa-Furans				0.934	0.981	33.555		0.000				0.299	
47	47 Total Hepta-Furans				0.873	0.981	37.835		0.000				0.458	

### Quantify Totals Report MassLynx 4.1 SCN815

Vista Analytical Laboratory

U:\VG12.PRO\Results\200609R1\200609R1-7.qld Dataset:

Last Altered:	Wednesday, June 10, 2020 11:01:32 Pacific Daylight Time
Printed:	Wednesday, June 10, 2020 11:02:20 Pacific Daylight Time

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

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

#### **Tetra-Dioxins**

Name	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
T ··· j ·· ja										

#### Penta-Dioxins

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

#### Hexa-Dioxins

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

#### **Hepta-Dioxins**

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

#### **Tetra-Furans**

Total Tetra-Furans	- ( <b>RT</b>	m1 Height m	n2 Height	m1 Resp	m2 Resp	RA	n/y ····	Resp	Conc.	EMPC	DL
Total Tetra-Furans	25.78	1.391e3	1.775e3	8.034e1	8.330e1	0.96	YES	0.000e0	0.00000	0.39633	0.212

#### Penta-Furans function 1

Name B	ŔŢ	m1 Height m2 Height	m1 Resp m2 Resp	RA	n/y = Respiration	Conc.	EMPC	DL
<b>1</b> 9, 17, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19								

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

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-7.qld

Last Altered: Wednesday, June 10, 2020 11:01:32 Pacific Daylight Time Printed: Wednesday, June 10, 2020 11:02:20 Pacific Daylight Time

Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231

#### Penta-Furans

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

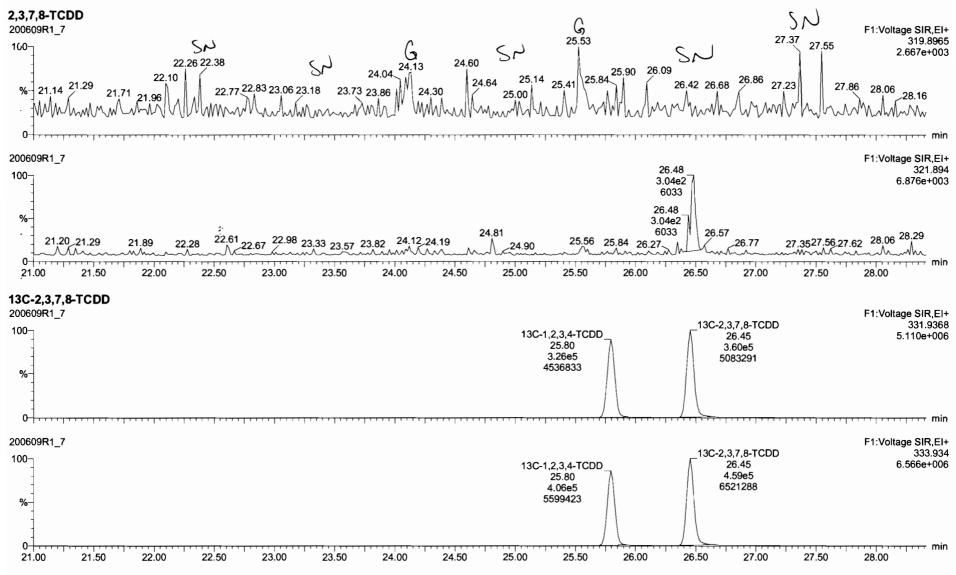
#### Hexa-Furans

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

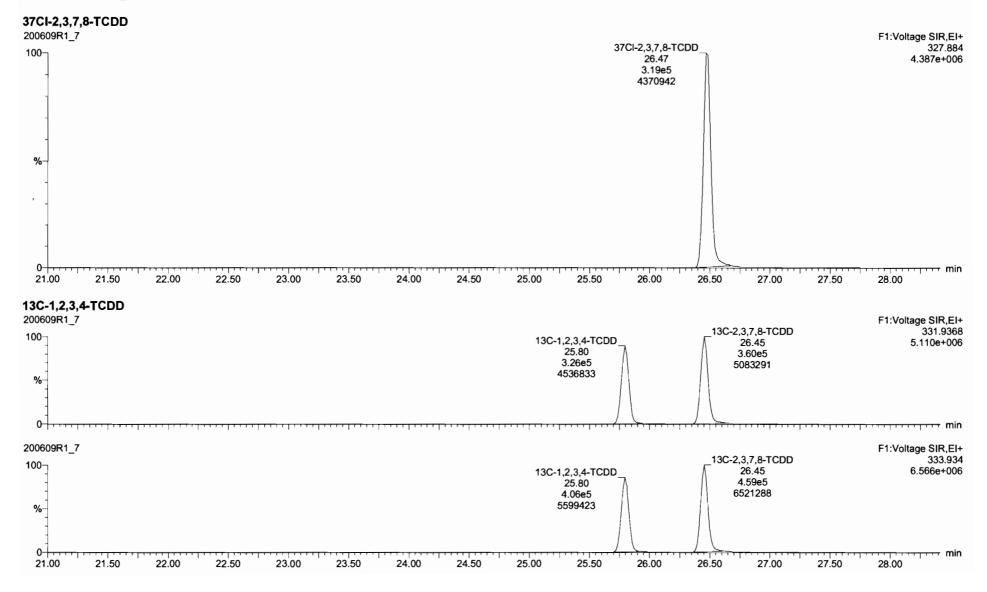
#### Hepta-Furans

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

Quantify San Vista Analytica	· · · ·	Page 53 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	
Name: 20060	9R1_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231	

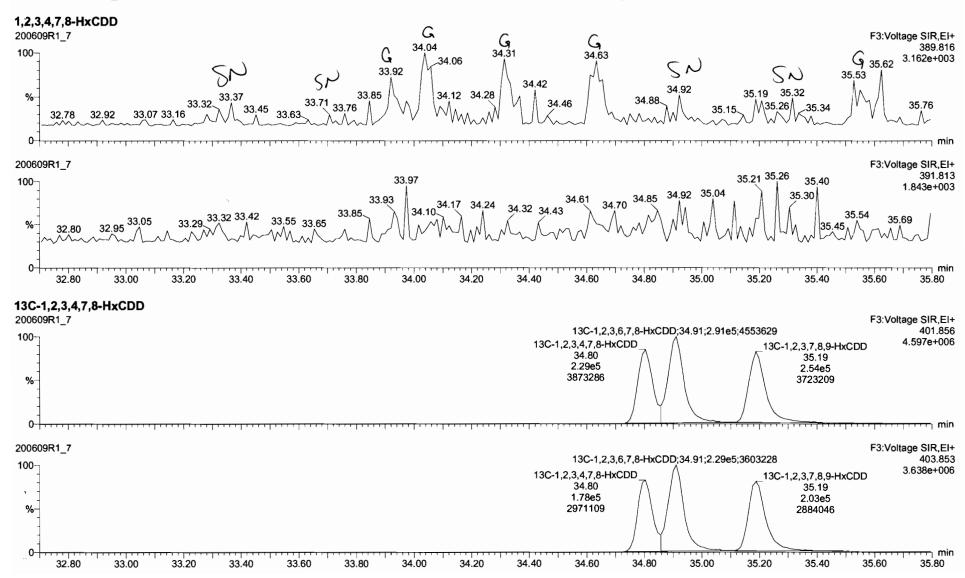


<b>Quantify Sam</b> Vista Analytica		Page 54 of 182
Dataset:	Untitled	
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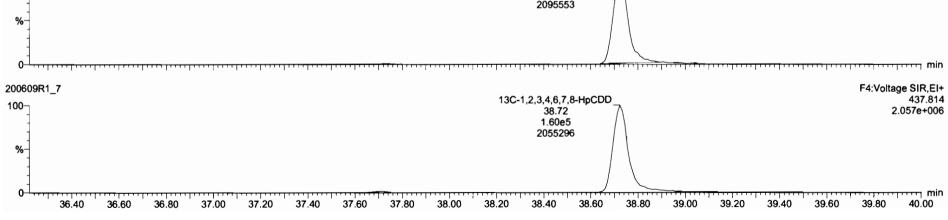


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ame: 200609	)R1_7, Date: (	09-Jun-2020	, Time: 15:	37:22, ID:	: 200094	7-01 PDI-I	FB-20042	61231 0.98	11, Desc	ription: P	DI-FB-20	04261231			
2,3,7,8-PeCI	סכ									G				F2	2:Voltage SIR,E
00 `		SN		52		G 30.15 / 30.20		30.66 J		31.18	51		31.94		353.857 4.158e+00
28.61 28 0	2.75 <sub>28.81</sub> 29.	•	29.5329.65	29.76 29.83	3 29.99 9.91		35 30.43	30.78	31.08	61.24	31.45 <sup>31.5</sup>	' 31.68 31.8	32.05	32.29	32.38
00609R1_7														F2	Voltage SIR,E
00_					3	30.14									355.85 4.002e+0
% - 28.52 28.7 0 - 28.50	72 28.89 <sup>28.92</sup> 2 28.75 29.0	29.13 29.24	9.38 29.57 29.50	29.8 29.73 29.75	5 29.88 30.00	30.34	0.38	30.66 30.92	31.7 30.95 31.00	10 31.15 31.25 31.25	1.33 <sup>31.51</sup> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.63 1.63 1.66 31. 		.12 32.20 32.25	30 32.58
C-1,2,3,7,8-				2011 0	00.00	00.20	00.00	00.10	01.00	01.20	01.00	01.70	02.00	52.20	52.00
0609R1_7									130-1.2	,3,7,8-PeCD	D			F2	Voltage SIR,E 365.89
00- %									:	31.44 2.30e5 904613					3.923e+00
0		<del></del> .		<del>, , , , , , , , , , , , , , , , , , , </del>		· · · · · · · · · · · ·			<del>, , , ,</del> ,			- <del>1 - 1 - 1 - 1 - 1</del>			m
00609R1_7									120 1 2	2 7 0 0.00	•			F2	:Voltage SIR,E
00 										,3,7,8-PeCD 31.44 3.70e5 183215					367.8 6.202e+0
0-1,				20.75								·	, , , , , ,		n
28.50	28.75 29.0	0 29.25	29.50	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.50

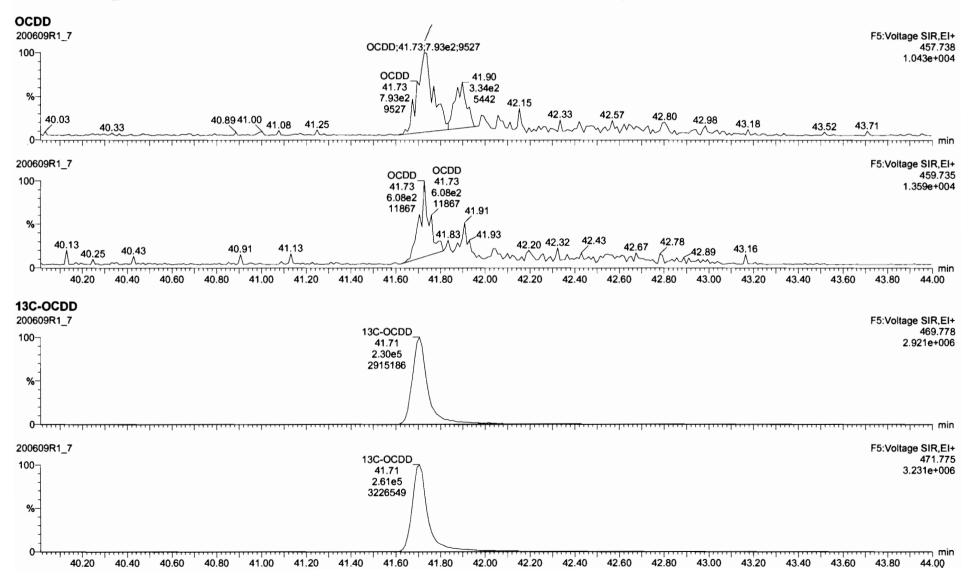
Page 56 of 182
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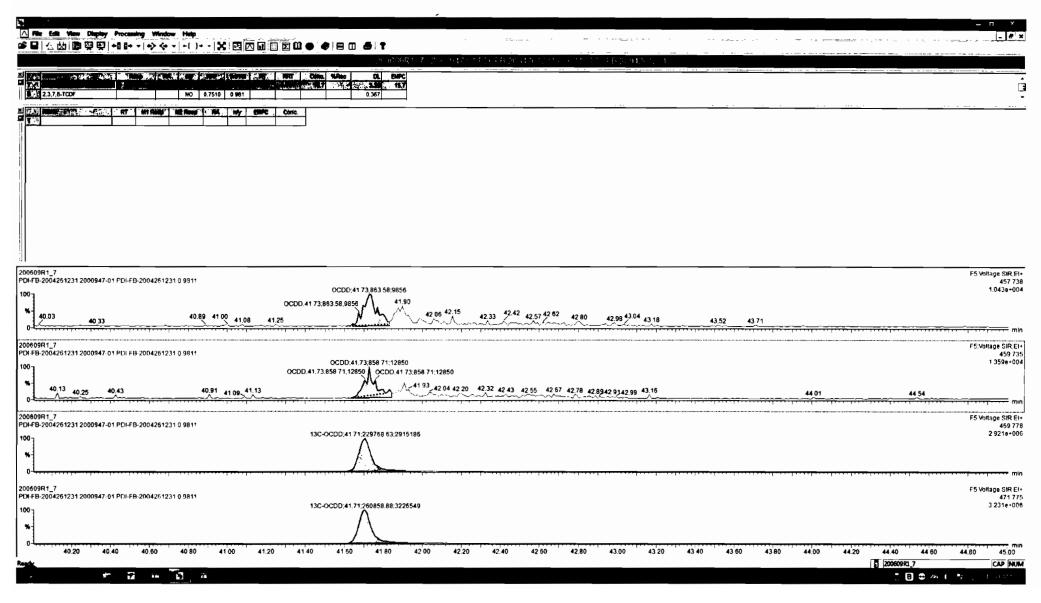


<b>Quantify Sam</b> Vista Analytica			Page 57 of 182
Dataset:	Untitled		
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Name: 20060	9R1_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 20	947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261	1231
<b>1,2,3,4,6,7,8-F</b> 200609R1_7	HpCDD	NAP	F4:Voltage SIR,EI+
100	37.26 37.36	38.76 38.72 ↓	423.777 4.250e+003
	37.	38.79 39.09	39.30 ∬ 39.34
%- 36.25 36.:	37.24 37.40 37.16 36.54 36.66 36.87 37.16	37.76 38.68 37.95 38.12 38.21 38.47 38.50 38.68 38.68 38.68 38.68 38.7 38.7 38.7 38.7 38.7 38.7 38.7 38.	39.44 39.68 39.87 39.95
0 200609R1_7			۳۰۰۰۲۰۰۰۲۰۰۰۲۰۰۰۲۰۰۰۲۰۰۰۰۲۰۰۰۰ min F4:Voltage SIR,EI+
100 <sub>7</sub>		38.73	425.774 2.8 <del>9</del> 9e+003
%-36.39 36.30	37.33 36.54 36.73 36.77 36.98 37.23 37.28 37.50 37.50	37.72 37.82 38.07 38.70 38.86 33 37.96 38.20 38.27 38.47 38.62 38.95 39.08	9.25 39.29 39.56 39.84 39.98
0 <sup>-1</sup> ,,	0 36.60 36.80 37.00 37.20 37.40 37.6	37.80 38.00 38.20 38.40 38.60 38.80 39.00 39.2	20 39.40 39.60 39.80 40.00
13C-1,2,3,4,6,	7,8-HpCDD		
200609R1_7 100⊣		13C-1,2,3,4,6,7,8-HpCDD	F4:Voltage SIR,EI+ 435.817
-		38.72 1.55e5	2.116e+006

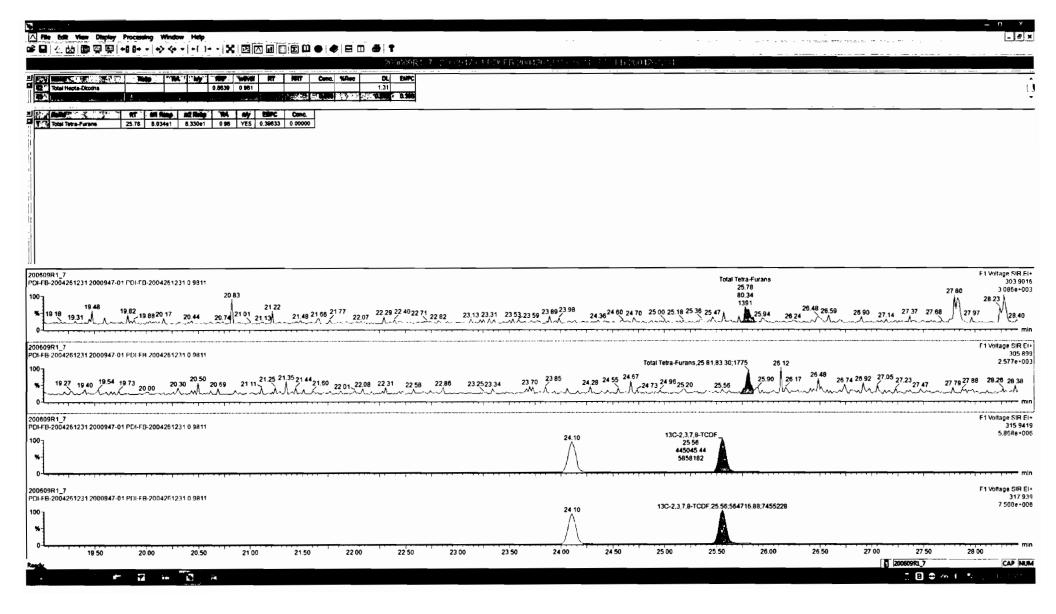


Quantify Sam Vista Analytica	· · ·	Page 58 of 182
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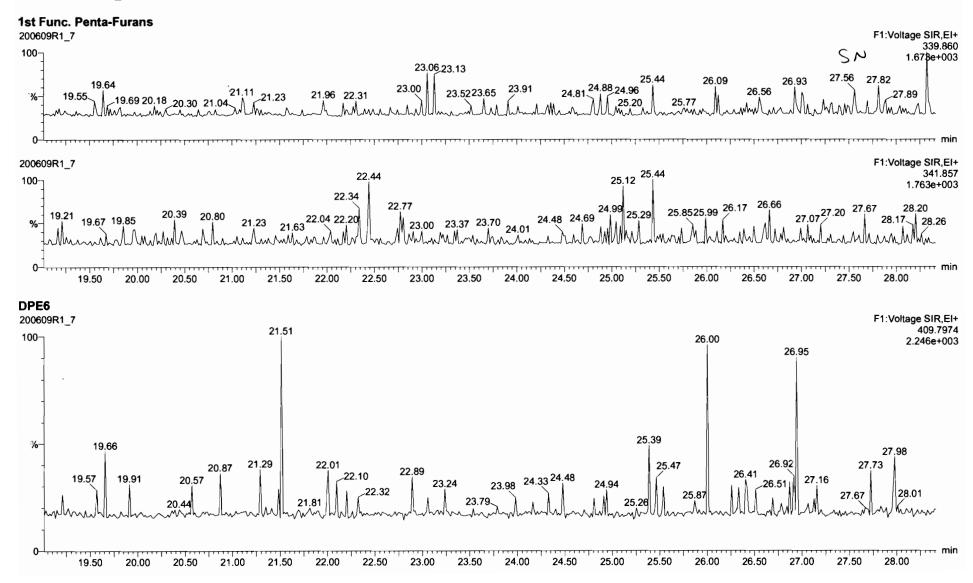


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ast Altered: rinted:	Wednesday, Jun Wednesday, Jun											
ame: 200609	9R1_7, Date: 09-Ju	un-2020, Time	e: 15:37:22, ID: 2	000947-0	1 PDI-FB-200	<b>426123</b> 1	0.9811, C	escriptio)	n: PDI-FB-2	2004261231		
<b>3,7,8-TCDF</b> 0609R1_7	$\leq n$	20,83	SN		SN		SN		plpo	Sr	مک لا	F1:Voltage SIR, J 27.80 303.90 M 3.0 <b>å6</b> e+0
% 19.4 19.31√	<sup>8</sup> 19.82 20.17 <sub>20.44</sub>	21.22	21.66 21.77 22.2	22.40	23.31 	23.89 23.	98 24.70		5.57 25.78	26.48 26.59	26.90 27.37	<b>N N -</b> -
0 <sup>-1</sup>					. [		Τιπιτ					ריידייייזייייזיייי <b>ר ו</b>
00609R1_7 00- %	19.54 20.30 20.50	21.25	<sup>5</sup> 21.44 <sup>22.08</sup> 22.3	122.58 22.8	6 <u>23.34</u> 23.	70 <sup>23.85</sup> 2	4.28 24.67	25 20	25.81 <sup>2</sup> 25.56	26.12	26.9227.05	F1:Voltage SIR, 305.( 2.577e+( 47 27:7928.26 <sup>28,38</sup>
0 <sup>-1</sup> ,, <sup>1</sup>		M_MMh	·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	MMMMM	L.A.A.A.A.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	····	Martin Martin	$\cdots$		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
19.5	50 20.00 20.50	21.00 2	1.50 22.00	22.50 2	3.00 23.50	24.00	24.50	25.00	25.50 26.0	00 26.50	27.00 27	.50 28.00
3C-2,3,7,8-T	CDF											F1:Voltage SIR,
00 <sub>1</sub>					13C-1,2,3,4 24.10		13C	-2,3,7,8-TCI 25.56	DF			315.9 5.868 <del>e</del> +
<b>%</b>					4.44e 534084	5 /\		4.45e5 5858182	$\wedge$			
0 <sup>-1</sup>	•••••					$\overline{1}$						\ <u>,,,,,,,,,,,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,
0609R1_7 )0⊣			13C-	1,2,3,4-TCD	F;24.10;5.71e5;6	747547	13C	-2,3,7,8-TCI	DF_			F1:Voltage SIR, 317.
%						Λ		25.56 5.65e5	Λ			7.508 <del>e</del> +
0			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		7455228				,,,
19.5	50 20.00 20.50	) 21.00 2	1.50 22.00	22.50 2	3.00 23.50	24.00	24.50	25.00	25.50 26.0	00 26.50	27.00 27	.50 28.00
PE1 :0609R1_7												F1:Voltage SIR
00-7		20.89										375.8 3.122e+
-												
-	20.	.62										
<b>%</b>	20,20	20.99		22.82	22.94					26,51		
-	19.99		1.38	22.77	23.04 23.59	24,00	24.4324.70	25.39	25.68 25.77	2	6.83 ♪	27.91 28.16
0	m M M	um Whinner	······		······································	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			·····	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	· · · · · · · · · · · · · · · · · · ·	
19.5	50 20.00 20.50	) 21.00 2	1.50 22.00	22.50 2	3.00 23.50	24.00	24.50	25.00	25.50 26.	00 26.50	27.00 27	.50 28.00



Quantify Sam Vista Analytica		Page 60 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	

## Name: 200609R1\_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231



Juantify Sam /ista Analytica	n <b>ple Report</b> al Laboratory	MassLyr	nx 4.1 SCł	N815									F	Page 61 of 18
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lame: 20060§	9R1_7, Date: (	)9-Jun-2020,	Time: 15:	37:22, ID:	2000947-01	PDI-FB-20(	04261231 0.98	11, Descri	ption: P[	DI-FB-200	4261231			
<b>,2,3,7,8-PeCI</b> 000609R1_7	SP)	29.18 29.25 .95	29.50 29.7	0 <sup>29.73</sup> <sup>29.9</sup>	29.96 2 2 2 2 2 2 29.99	30.28 30.31 <sup>30</sup>	5N 0.54 30.84 <sup>30</sup>	31 0.95 31.05	.16 31.21	31.45 31	.6331.7631	5 	$\mathcal{N}$	2:Voltage SIR,E 339.8 2.34 2.088e+0
60609R1_7			29.47	29.71 29.0			44 30.72 30.86		15	M~~~~	$\sim \sim $		32.27 3	2:Voltage SIR,E 341.8 32.321.783e+00 32.58
28.50 <b>3C-1,2,3,7,8-</b>	28.75 29.0	0 29.25	29.50	29.75	30.00	30.25 30.5	50 30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.50
00609R1_7 v0				13C-1,2,3,7 30. 5.33 9053	14 📈			.13 6e5					F2	2:Voltage SIR,E 351.9 9.622e+0
0 <sup>-1</sup>	-,   -, , , , , , , , , , , , , , , , ,	····						· · · · · · ·	· · · · · · · · · · · · · · · · · · ·					2:Voltage SIR,
00				13C-1,2,3,7 30. 3.31 5812	14 A		3.3	7,8-PeCDF 13 1e5 0193						353.8 5.848e+0
<b>%</b>		0 29.25	29.50	29.75	30.00	30.25 30.5	50 30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.50
%- 0- 28.50	28.75 29.0	20.20												
0	28.75 29.0			29	0.91								F2 32.29	2:Voltage SIR, 409.79 1.740e+0

30.20 30.26 30.40

30.25

80.99

31.00

31,37

31.25

31.50

31.73

31.75

30.**79** 

30.75

30.58 30.73

30.50

28.75

28.86

28.54

0-

28.50

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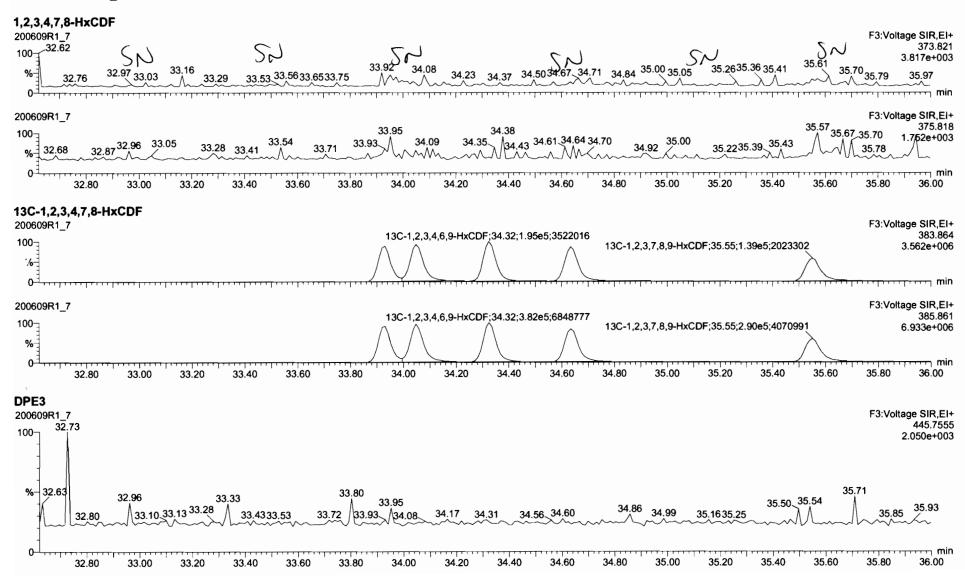
32.25

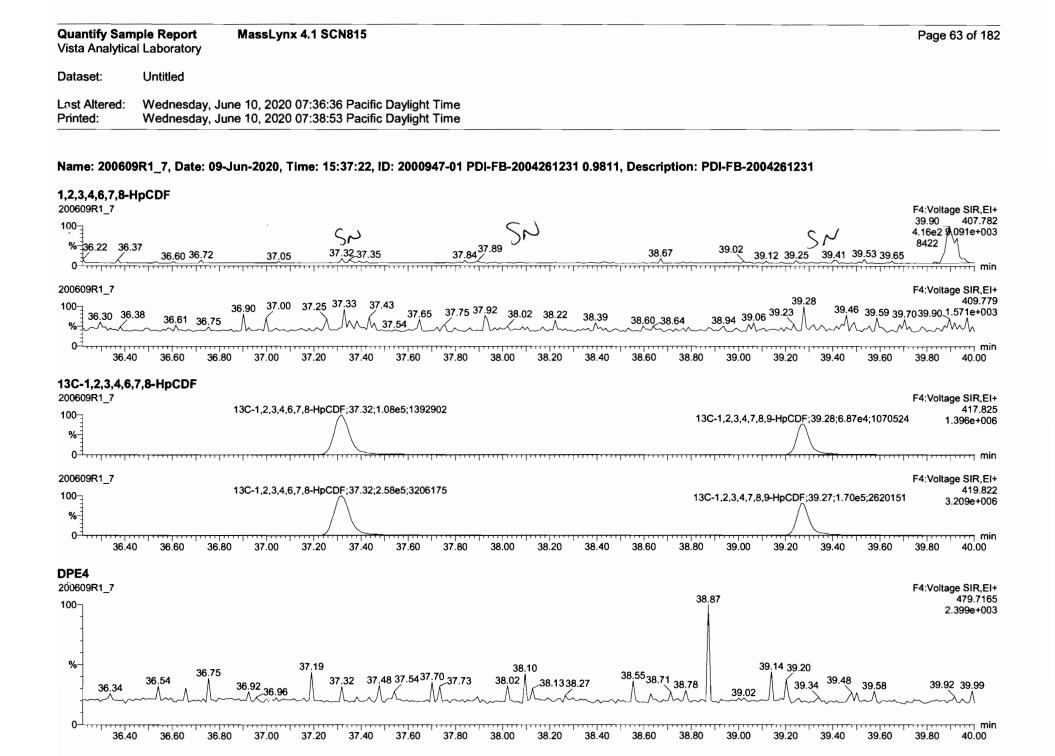
31.95 32.1532.21

32.00

Quantify Sam Vista Analytica		Page 62 of 182
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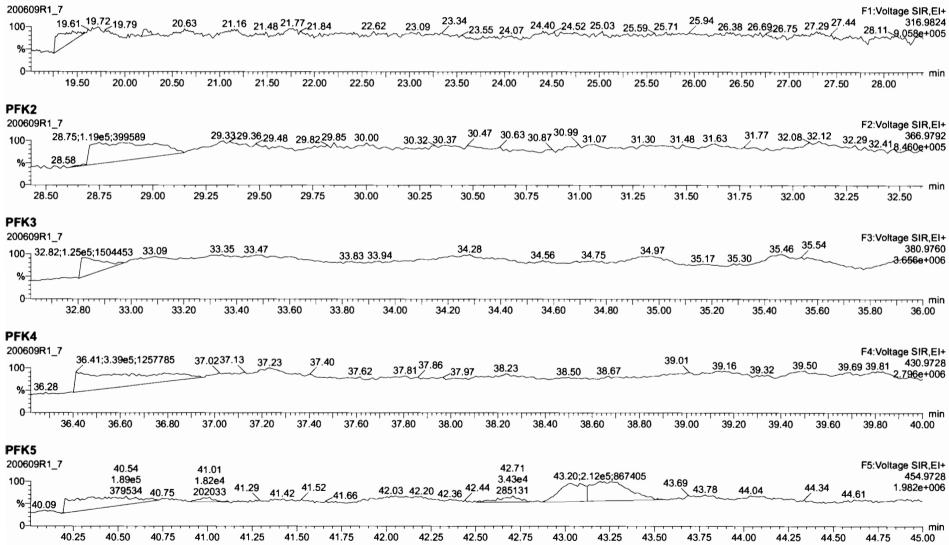
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Sat Altered:       Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time         ame: 200609R1_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231       FB-Vollage S         CDF       FB-Vollage S       FB-Vollage S       FB-Vollage S         00009R1_7       FB-Vollage S	<b>Quantify Sam</b> /ista Analytica		Page 64 of 1
Initial:       Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time         ame: 200609R1_7, Date: 09-Jun-2020, Time: 15:37:22, ID: 2000947-01 PDI-FB-2004261231 0.9811, Description: PDI-FB-2004261231         COF       F5:Voltage 5         00009R1_7       41.89         00009R1_7       41.89       41.75       42.26       42.99       43.20       43.54       43.59       44.14       42.6       44.66,47.74       42.86       44.66,47.74       44.66,44.75 <th>Dataset:</th> <th>Untitled</th> <th></th>	Dataset:	Untitled	
$\begin{array}{c} \text{CDF} \\ \text{y} = \underbrace{\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	ast Altered: rinted:		
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$\begin{array}{c} 41.9 \\ 43.3 \\ 40.31 \\ 40.25 \\ 40.51 \\ 40.51 \\ 40.25 \\ 40.50 \\ 40.75 \\ 41.00 \\ 41.25 \\ 41.50 \\ 41.75 \\ 42.00 \\ 42.25 \\ 42.50 \\ 42.75 \\ 43.00 \\ 43.25 \\ 43.00 \\ 43.25 \\ 43.50 \\ 43.75 \\ 44.00 \\ 44.25 \\ 44.50 \\ 44.75 \\ 44.50 \\ 4$	00609R1 7	$\leq \sim$	F5:Voltage SIR
$\frac{1}{4029} + \frac{1}{4021} + \frac{1}{4029} + \frac{1}{4129} + 1$	40.31	41.93 41.97 40.04 42.40	44.78 44.78 1.995e+
$\frac{1}{40.25} \frac{1}{40.25} \frac{1}{40.50} \frac{1}{40.75} \frac{1}{41.00} \frac{1}{41.25} \frac{1}{41.50} \frac{1}{41.75} \frac{1}{42.00} \frac{1}{42.25} \frac{1}{42.50} \frac{1}{42.75} \frac{1}{43.00} \frac{1}{43.25} \frac{1}{43.50} \frac{1}{43.75} \frac{1}{44.00} \frac{1}{44.25} \frac{1}{44.50} \frac{1}{44.75} \frac{1}{45} \frac{1}$	0609R1_7	40.29 40.96 41.21 41.29 41.64 41.75 $41.94$ 42.26 42.36 42.57 42.81 42.99 43.20 43.54	F5:Voltage SIR 443 2.204e+
$\begin{array}{c} \text{F5:Voltage S} \\ F5:$	0	have the second with the second of the second second second the second s	
$\begin{array}{c} \text{F5:Voltage S} \\ F5:$		5 40.50 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44	1.00 44.25 44.50 44.75 45.0
$\begin{array}{c} \text{F5:Voltage S} \\ \text{F5:Voltage S} \\ \text{Addef} \\ \text$	0609R1_7	13C-OCDF;41.90;2.53e5;3268077	F5:Voltage SIF 453.1 3.273e-
$\begin{array}{c} & 13C-OCDF; 41.90; 2.78e5; 3667741 \\ & 3.690 \\ \hline \\ & 40,25 \\ & 40,50 \\ & 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 \\ & 513 \\ & 2.562 \\ & 513 \\ & 2.562 \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & & & \\ & & $	•		F5.Veteros Bit
$\begin{array}{c} 40.25 & 40.50 & 40.75 & 41.00 & 41.25 & 41.50 & 41.75 & 42.00 & 42.25 & 42.50 & 42.75 & 43.00 & 43.25 & 43.50 & 43.75 & 44.00 & 44.25 & 44.50 & 44.75 & 45.00 \\ \end{array}$		13C-OCDF;41.90;2.78e5;3667741	455 3.690e
$\begin{array}{c} \text{F5:Voltage S} \\ F5:$		15 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	4.00 44.25 44.50 44.75 45.
$\begin{array}{c} 2.562 \\ 40.59 \\ 40.62 \\ 40.80 \\ 41.16 \\ 41.29 \\ 41.60 \\ 41.76 \\ 41.90 \\ 41.90 \\ 42.19 \\ 42.53 \\ 42.66 \\ 42.95 \\ 43.61 \\ 43.61 \\ 43.90 \\ 43.61 \\ 43.90 \\ 44.28 \\ 44.56 \\$		42.26	F5:Voltage SIF
$\begin{array}{c} 40.59 \\ 40.62 \\ 40.62 \\ 40.80 \\ 41.14 \\ 41.29 \\ 41.60 \\ 41.76 \\ 41.90 \\ 41.90 \\ 42.19 \\ 42.53 \\ 42.66 \\ 42.95 \\ 43.16 \\ 43.40 \\ 43.61 \\ 43.90 \\ 43.61 \\ 43.90 \\ 44.28 \\ 44.28 \\ 44.28 \\ 44.56 \\ 44.56 \\ 44.28 \\ 44.56 \\ 44.56 \\ 44.56 \\ 44.66 \\ 44.14 \\ 44.28 \\ 44.56 \\ 44.56 \\ 44.66 \\ 44.14 \\ 44.28 \\ 44.56 \\$	00		2.562e
		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.06 44.14 44.37 44.56 44.9
<u>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 44</u>	,0 <sup>1</sup> ,,	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	4.00 44.25 44.50 44.75 45.

Quantify Sample Vista Analytical La		Page 65 of 182
Dataset: U	Intitled	
	Vednesday, June 10, 2020 07:36:36 Pacific Daylight Time Vednesday, June 10, 2020 07:38:53 Pacific Daylight Time	



Quantify San Vista Analytica	nple Summary Report al Laboratory	MassLynx 4.1 SCN815
Dataset:	U:\VG12.PRO\Results\2	00609R1\200609R1-8.qld
Last Altered: Printed:		20 11:05:42 Pacific Daylight Time 20 11:08:22 Pacific Daylight Time

67 06/10/2020

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

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT.	RT	Pred.RRT	RRT	Conc.	%Rec Die	
	1 2,3,7,8-TCDD			NO	0.888	0.956	26.486		1.001			0.524	
2	2 1,2,3,7,8-PeCDD			NO	0.908	0.956	31.457		1.001			0.576	ļ
	3 1,2,3,4,7,8-HxCDD			NO	1.03	0.956	34.814		1.000			0.696	
	4 1,2,3,6,7,8-HxCDD			NO	0.892	0.956	34.911		1.000			0.703	
	5 1,2,3,7,8,9-HxCDD			NO	0.887	0.956	35.199		1.000			0.838	
	6 1,2,3,4,6,7,8-HpCDD			NO	0.864	0.956	38.746		1.000			1.73	[
	7 OCDD	1.58e3	0.82	NO	0.914	0.956	41.717	41.73	1.000	1.000	13.767	2.48	13.8
	8 2,3,7,8-TCDF			NO	0.751	0.956	25.582		1.001			0.344	
	9 1,2,3,7,8-PeCDF			NO	0.893	0.956	30.175		1.001			0.358	
100 Mar 1996	10 2,3,4,7,8-PeCDF			NO	0.935	0.956	31.161		1.001			0.337	(
	11 1,2,3,4,7,8-HxCDF			NO	0.884	0.956	33.931		1.000			0.452	
0	12 1,2,3,6,7,8-HxCDF			NO	0.889	0.956	34.058		1.000			0.444	
	13 2,3,4,6,7,8-HxCDF			NO	0.934	0.956	34.669		1.001			0.466	1
	14 1,2,3,7,8,9-HxCDF			NO	0.871	0.956	35.550		1.000			0.729	
	15 1,2,3,4,6,7,8-HpCDF			NO	0.873	0.956	37.355		1.001			0.792	
	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	0.956	39.278		1.000			0.898	]
	17 OCDF			NO	0.806	0.956	41.908		1.000			1.52	
	18 13C-2,3,7,8-TCDD	8.58e5	0.75	NO	1.16	0.956	26.491	26.45	1.026	1.025	1800.4	86.1 2.47	
	19 13C-1,2,3,7,8-PeCDD	6.39e5	0.64	NO	0.849	0.956	31.674	31.43	1.227	1.218	1826.5	87.3 2.47	
	20 13C-1,2,3,4,7,8-HxCDD	4.36e5	1.29	NO	0.779	0.956	34.809	34.80	1.014	1.014	1735.5	83.0 5.41	
	21 13C-1,2,3,6,7,8-HxCDD	5.71e5	1.25	NO	1.02	0.956	34.922	34.91	1.017	1.017	1741.2	83.2 4.15	
	22 13C-1,2,3,7,8,9-HxCDD	5.06e5	1.25	NO	0.903	0.956	35.193	35.19	1.025	1.025	1738.3	83.1 4.67	
	23 13C-1,2,3,4,6,7,8-HpCDD	3.42e5	0.99	NO	0.689	0.956	38.715	38.73	1.128	1.128	1540.0	73.6 5.09	
	24 13C-OCDD	5.26e5	0.86	NO	0.652	0.956	41.736	41.72	1.216	1.215	2502.2	59.8 4.87	
	25 13C-2,3,7,8-TCDF	1.02e6	0.77	NO	1.06	0.956	25.534	25.56	0.989	0.990	1697.4	81.1 3.36	
	26 13C-1,2,3,7,8-PeCDF	9.07e5	1.58	NO	0.838	0.956	30.058	30.15	1.165	1.168	1908.7	91.2 5.00	
	27 13C-2,3,4,7,8-PeCDF	8.99e5	1.60	NO	0.817	0.956	31.011	31.13	1.202	1.206	1942.0	92.8 5.13	
	28 13C-1,2,3,4,7,8-HxCDF	5.51e5	0.50	NO	1.01	0.956	33.941	33.93	0.989	0.989	1698.1	81.2 6.52	
	29 13C-1,2,3,6,7,8-HxCDF	6.32e5	0.50	NO	1.17	0.956	34.064	34.05	0.992	0.992	1680.7	80.3 5.63	
	30 13C-2,3,4,6,7,8-HxCDF	5.85e5	0.49	NO	1.02	0.956	34.637	34.63	1.009	1.009	1777.1	84.9 6.43	
	31 13C-1,2,3,7,8,9-HxCDF	4.71e5	0.50	NO	0.860	0.956	35.537	35.55	1.035	1.036	1699.7	81.2 7.64	

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

# Dataset: U:\VG12.PRO\Results\200609R1\200609R1-8.qld

Last Altered:	Wednesday, June 10, 2020 11:05:42 Pacific Daylight Time
Printed:	Wednesday, June 10, 2020 11:08:22 Pacific Daylight Time

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	. RT 🔬	Pred.RRT	RRT	Conc	%Rec		EMPC
	32 13C-1,2,3,4,6,7,8-HpCDF	3.89e5	0.42	NO	0.774	0.956	37.284	37.32	1.086	1.087	1558.8	74.5	5.47	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.55e5	0.41	NO	0.521	0.956	39.312	39.28	1.145	1.144	1517.3	72.5	8.12	
34	34 13C-OCDF	5.84e5	0.87	NO	0.746	0.956	41.907	41.91	1.221	1.221	2431.5	58.1	4.92	
367	35 37CI-2,3,7,8-TCDD	3.38e5			1.04	0.956	26.522	26.48	1.028	1.026	791.83	94.6	0.729	
	36 13C-1,2,3,4-TCDD	8.62e5	0.79	NO	1.00	0.956	25.890	25.81	1.000	1.000	2092.1	100	2.86	
	37 13C-1,2,3,4-TCDF	1.19e6	0.79	NO	1.00	0.956	24.360	24.12	1.000	1.000	2092.1	100	3.55	
58	38 13C-1,2,3,4,6,9-HxCDF	6.74e5	0.50	NO	1.00	0.956	34.420	34.33	1.000	1.000	2092.1	100	6.57	
39	39 Total Tetra-Dioxins				0.888	0.956	24.620		0.000				0.322	
<b>40</b>	40 Total Penta-Dioxins				0.908	0.956	29.960		0.000				0.225	
4	41 Total Hexa-Dioxins				0.892	0.956	33.635		0.000				0.399	
	42 Total Hepta-Dioxins				0.864	0.956	37.640		0.000				0.807	
Electron and	43 Total Tetra-Furans				0.751	0.956	23.610		0.000		0.00000		0.168	0.277
12	44 1st Func. Penta-Furans				0.893	0.956	27.580		0.000				0.0926	
	45 Total Penta-Furans				0.893	0.956	29.275		0.000				0.182	
and the second	46 Total Hexa-Furans				0.934	0.956	33.555		0.000				0.265	
7	47 Total Hepta-Furans				0.873	0.956	37.835		0.000				0.494	

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

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-8.gld

Last Altered:	Wednesday, June 10, 2020 11:05:42 Pacific Daylight Time
Printed:	Wednesday, June 10, 2020 11:08:22 Pacific Daylight Time

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

Name: 200609R1\_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300

#### **Tetra-Dioxins**

- 1	1.1	••	•	Name	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
	Ť″	-												

#### Penta-Dioxins

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

# Hexa-Dioxins

Na K	me 👘	ĩ	RT	m1 Height m2 Height	m1 Res	p m2 Resp	RA + n/y Re	sp Son	EMPC	184 DL
10 A										

#### **Hepta-Dioxins**

RT. Name: Mane: RT	m1 Height m2 Height	m1 Resp m2 Resp RA my Resp Resp Contain EMPC	Đ
RT Name:			

#### Tetra-Furans

Total Tetra-Furans	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA:	n/y	Respi	Cone.	EMPC	<b>DE</b>
Total Tetra-Furans	25.84	1.236e3 9.620e2	6.185e1	5.729e1	1.08	YES	0.000e0	0.00000	0.27707	0.168

#### Penta-Furans function 1

Name	ŔŤ	m1 Height m2 Height	m1 Resp m2 Resp	RA n/y Mar Res	Conc.	EMPC DL
to the second						

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

Dataset: U:\VG12.PRO\Results\200609R1\200609R1-8.qld

Last Altered: Wednesday, June 10, 2020 11:05:42 Pacific Daylight Time Printed: Wednesday, June 10, 2020 11:08:22 Pacific Daylight Time

Name: 200609R1\_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300

#### Penta-Furans

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

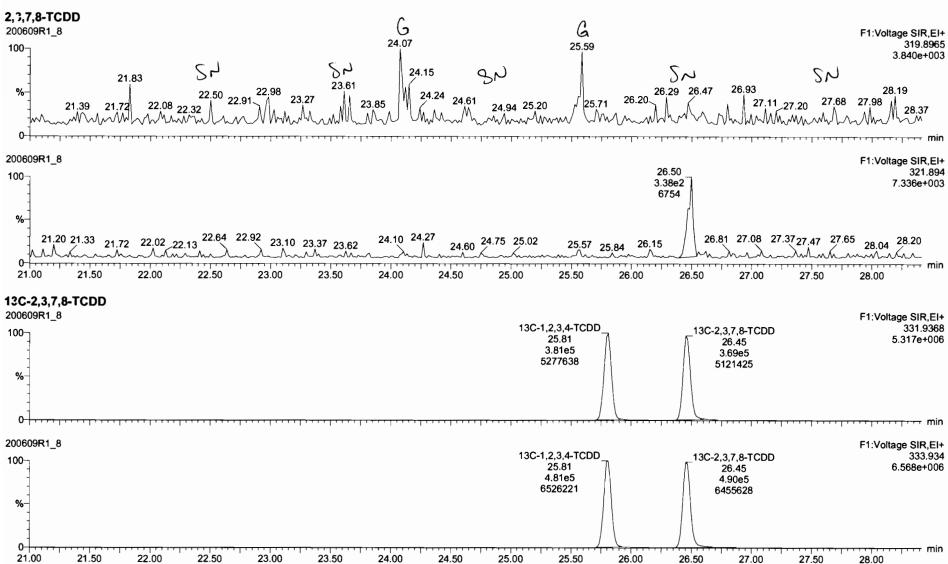
#### Hexa-Furans

	Name	RT	m1 Height m2 Height	m1 Resp m2 Res	p R/	n/y Resp	Conc.	EMPC	D
1 1									

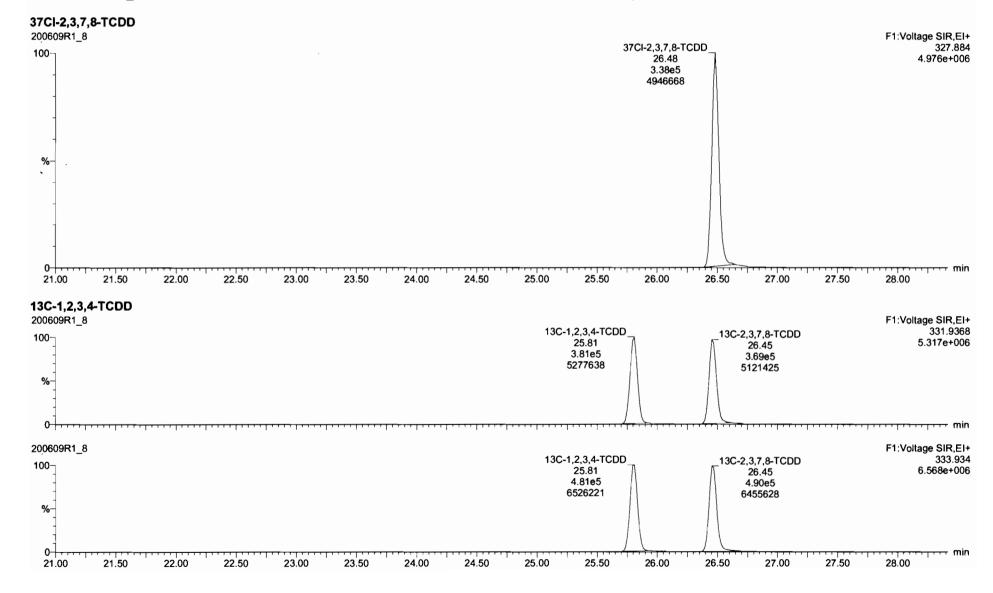
#### Hepta-Furans

Name	RT	m1 Height m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	1	Conc.	EMPC	DL
<b>*</b> -100											

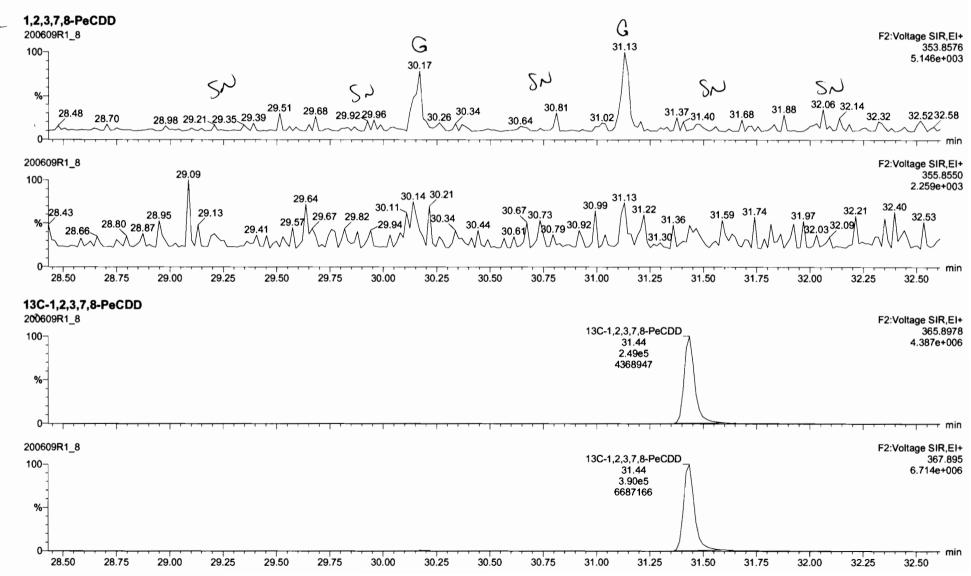
Vista Analytica	<b>iple Report</b> al Laboratory	MassLynx 4.1 \$	SCN815					Page 66 of 182
Dataset:	Untitled							
Last Altered: Printed:		June 10, 2020 07:36 June 10, 2020 07:38						 
Name: 20060	9R1_8, Date: 0	9-Jun-2020, Time:	16:23:33, ID: 2000	947-02 PDI-RE	3-2004261300 0.9	956, Descriptio	n: PDI-RB-2004261300	
Name: 200609 2,3,7,8-TCDD 200609R1_8 100-	_	9-Jun-2020, Time: `	16:23:33, ID: 2000	9 <b>47-02 PDI-RE</b> G 24.07	3-2004261300 0.9	956, Descriptio	n: PDI-RB-2004261300	F1:Voltage SIR,EI+ 319.8965



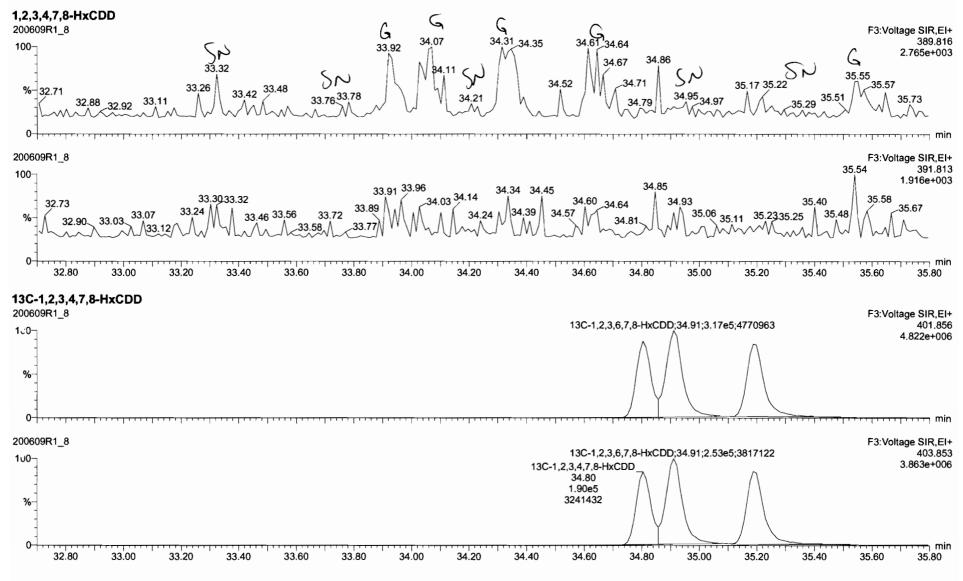
Quantify Sam Vista Analytica		Page 67 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	



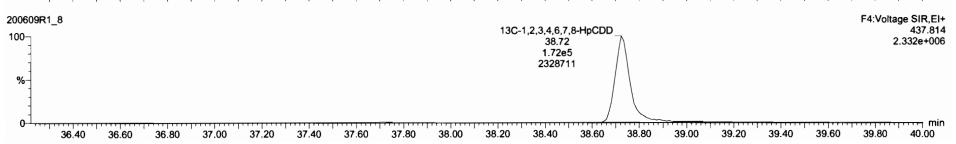
Quantify Sam Vista Analytica	· · · ·	Page 68 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	



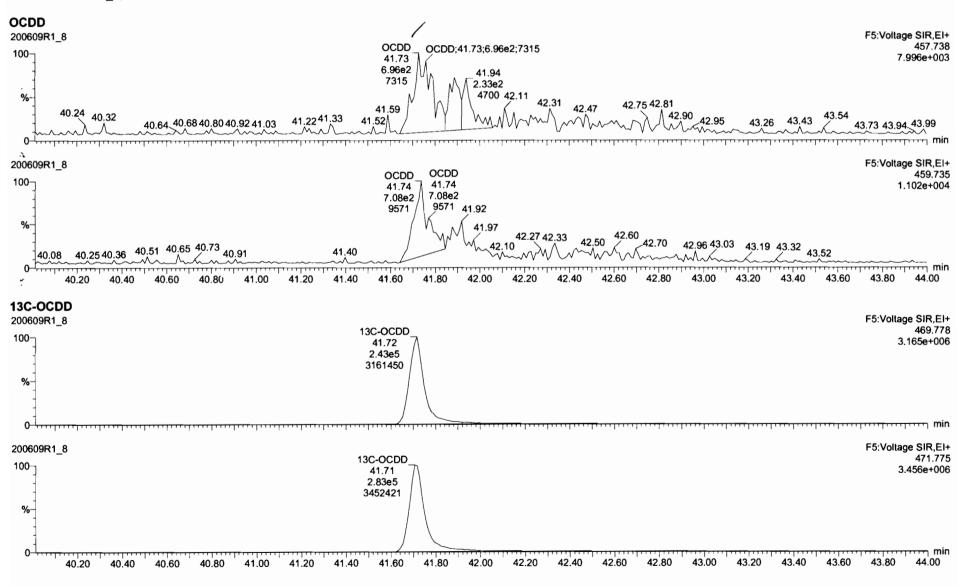
Qantify San Vista Analytica		Page 69 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	
Name: 20060	9R1_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-20042	261300



Quantify Sam /ista Analytica		MassLynx 4.1 SCN815					Page 70 of 182
Dataset:	Untitled						
ast Altered: Printed:		ne 10, 2020 07:36:36 Paci ne 10, 2020 07:38:53 Paci					
Name: 200609	9R1_8, Date: 09-	Jun-2020, Time: 16:23:33	8, ID: 2000947-02 PDI-RB-20	04261300 0.956, Descri	ption: PDI-RB-20042	61300	
<b>1,2,3,4,6,7,8-H</b> 200609R1_8	lpCDD	G					F4:Voltage SIR,EI+
100 		37.32 37.30 37.28 36.93 37.22	36 $37.78$ $37.8237.6437.74$ $37.9137.42 38.01_{38}$	38.32 38.40 38.6	5N 38.76 38.83 38.95 34 $6$ $6$ $39$ 39	39.55	423.777 3.620e+003 39.79
36.22 36.4 0	11 36.64 36.8	11 A M37.14 W					······································
200609R1_8					38.73		F4:Voltage SIR,EI+ 425.774
36.25 36.35	36.70 36.57 36.61 36.76	37.30 37. 36.92 37.16 37.22	37.64	38.27 38.40 38.40 38.40 38.40 38.67 38.6 38.6 38.6 38.6 38.6 38.6 38.6 38.7 38.7 38.7 38.7 38.7 38.7 38.7 38.7	70 38.81 39.10 <sup>39.1</sup>	3 <sup>39.18</sup> 39.29	2.972e+003 9.63 39.87 39.67 39.96
36.40	0 36.60 36.8	0 37.00 37.20 37.40	0 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
1 <b>3C-1,2,3,4,6,</b> 200609R1_8	7,8-HpCDD						F4:Voltage SIR,EI+
100 %					13C-1,2,3,4,6,7,8-Hp 38.73 1.70e5 2314360	CDD	435.817 2.335e+006



Quantify San Vista Analytica		Page 71 of 182
Dataset:	Untitled	
Last Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	
	Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time	



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Mail         Mail <th< td=""><td><u>.</u></td></th<>	<u>.</u>
	<u> </u>
200609R1 8	F5 Voltage SIR FI+
PDI-RB-2004261300 2000947-02 PDI-RB-2004261300 0 956	457 738 7.996e+003
$\begin{array}{c} \text{OCDD},4173,71120,7371\\ \text{OCDD},41,73,711,20,7371\\ \text{M}_{A}  \begin{array}{c} 41,99\\ 41,99 \end{array}$	1.5508-005
40 09 40 2440 32 40 48 40 68 40 80 40 92 41 03 41.09 41 22 41 33 41 52 41 59 41 59 41 59 41 59 42 11 42 11 42 15 42 59 42 75 42 81 42 90 42 99 43 13 43 26 43 43 43 54 43 73 43 94 43 99	44.46 44.76 44.88
200609R1_8	F5 Vottage SIR.EI+
PCI-RB-2004261300 2000947 02 PDI-RB 2004261300 0 956 OCDD;41 74;869 88;10328	459 735 1 102e+004
100 A OCDD.4174.869 89.10328	
10 08 40 25 40.38 40.4940.51 40.65 40.73 40.91 41.40	14.34_44.38
200609R1_8 PD-RB-2004261300 2000947-02 PDI-RB-2004251300 0 955	F5 Voltage SIR EI+ 459 778
13C-OCDD:41 72.242903 58:3161450	3 155e+006
	r5 Voltage SIR El·
PDFR8-2004251300 2000947-02 PDI R8-2004251300 0 955 13C-OCDD;41 71;283052 25;3452421	471 775 3 458e+008
40.20 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 44.20	44.40 44.60 44.80 45.00
	[] 200609RL_8 [CAP  NUM]

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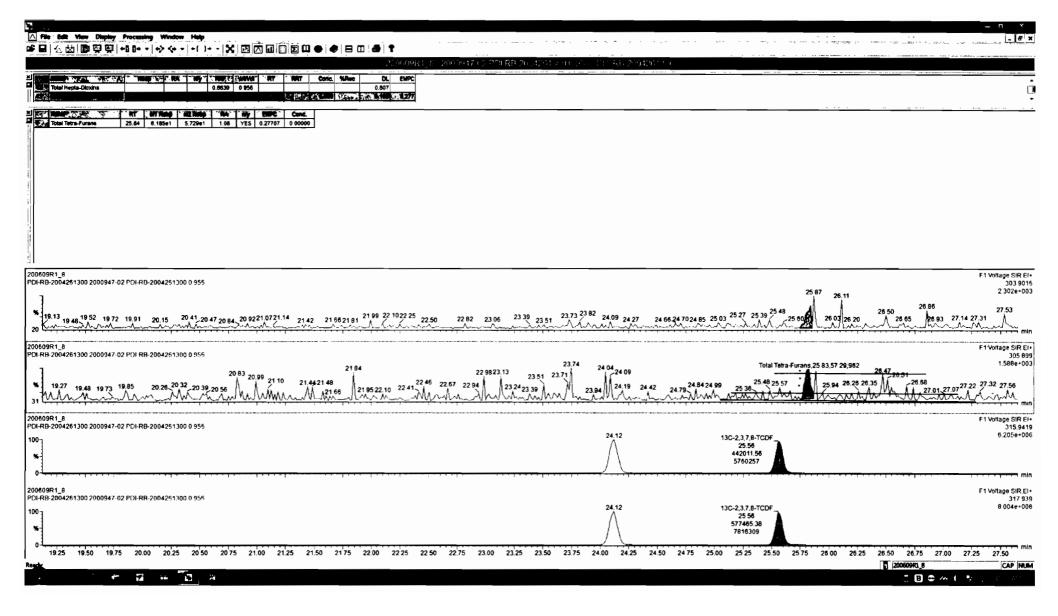
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Dataset:	Untitled					
ast Altered: Printed:	Wednesday, June 10, 2020 0 Wednesday, June 10, 2020 0					
lame: 20060	9R1_8, Date: 09-Jun-2020, Tir	ne: 16:23:33, ID: 20009	47-02 PDI-RB-200426130	0 0.956, Description: PC	DI-RB-2004261300	
3, <b>3,7,8-TCDF</b>						F1:Voltage SIR,EI
100 19.07 19.	52 <sup>19.72</sup> 19.91 20.41 <sup>20.92</sup> 21.07	SJJ 21.66 21,99 22.10	SN SN 22.82 23.06 23.73.23.82	510	$A/\rho_{0}$ 25.87 26.11 SN 26.50 26.81	303.901 27.82 5.331e+00
0-1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u></u>	***************************************	<del></del>	<u>, , , , , , , , , , , , , , , , , , , </u>	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	F1:Veltees SIR E
200609R1_8 10019.09 %19.4	20.83 20.99 8 19.85 20.32 20.39	21.84 21.44 21.95 22.46	22.98 23.13 23.71 24.04	24.19 24.84 24.99 25.5	25.8325.89 26.47 26.68 57 26.35	F1:Voltage SIR,EI 27.85 305.89 27.22 27.56 27.67 1.596p+00
0 <sup>_1</sup> ,,,,,,,,,,,,,,, 19.5	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 2	ni 7.00 27.50 28.00
3C-2,3,7,8-T	CDF					
:00609R1_8 100-₁			13C-1,2,3,4-TCDF 24.12 ↑	13C-2,3,7,8-TCDF		F1:Voltage SIR,E 315.941 6.205e+00
%			5.22e5 6165184	25.56 4.42e5 5760257	l	0.2000 00
-			······································	<del>┝</del> ┲╍┲┲┲┲┲┲┲┲┲┲┲		
0 <sup>_1</sup> ,,,,,,,,,,,,,,,		***++++++++++++++++++++++++++++++++++++				
o <sup></sup> ,,,,,,,,,,,,,,,, :00609R1_8			13C-1,2,3,4-TCDF 24.12 6.64e5	13C-2,3,7,8-TCDF 25.56 5.77e5		F1:Voltage SIR,E 317.93
0 <sup>4</sup>		····	24.12 6.64e5 7962301	25.56 5.77e5 7816309	, , , , , , , , , , , , , , , , , , ,	F1:Voltage SIR,E 317.93 8.004e+00
0 <sup>1</sup>	50 20.00 20.50 21.00	21.50 22.00 22.50	24.12 6.64e5	25.56 5.77e5	26.00 26.50 2 <sup>°</sup>	F1:Voltage SIR,E 317.9 8.004e+0
0 <sup>4</sup> ,, 609R1_8 00 % 0 0 19.5 0 0 0 0 0 0 0 0 19.5 0 0 0 0 0 0 0 0 1 19.5 0 0 0 0 0 0 0 0 0 0 0 0 0			24.12 6.64e5 7962301	25.56 5.77e5 7816309	26.00 26.50 2	F1:Voltage SIR,E 317.9 8.004e+0 7.00 27.50 28.00 F1:Voltage SIR,E 375.83
0 <sup>4</sup>			24.12 6.64e5 7962301	25.56 5.77e5 7816309	) 26.00 26.50 2 <sup>°</sup>	F1:Voltage SIR,E 317.9 8.004e+00 7.00 27.50 28.00 F1:Voltage SIR,E 375.836
0 <sup>4</sup>		22.5	24.12 6.64e5 7962301 23.00 23.50 24.00	25.56 5.77e5 7816309	26.00 26.50 2	F1:Voltage SIR,E 317.9 8.004e+00 7.00 27.50 28.00 F1:Voltage SIR,E 375.836
0 <sup>4</sup>			24.12 6.64e5 7962301 23.00 23.50 24.00	25.56 5.77e5 7816309 24.50 25.00 25.50 24.30	25.85 26.45 25.85 26.45	F1:Voltage SIR,E 317.93 8.004e+00

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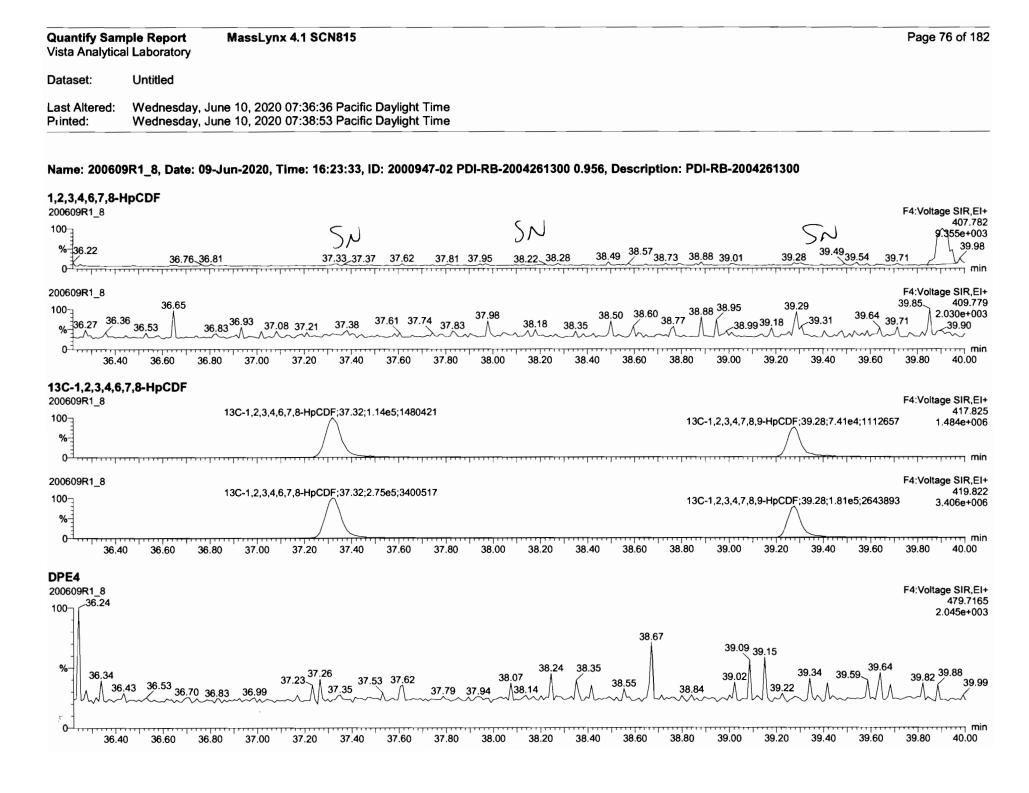
<b>Quantify Sam</b> Vista Analytica	
Dataset:	Untitled
ast Altered: Printed:	Wednesday, June 10, 2020 07:36:36 Pacific Daylight Time Wednesday, June 10, 2020 07:38:53 Pacific Daylight Time
Name: 200609	9R1_8, Date: 09-Jun-2020, Time: 16:23:33, ID: 2000947-02 PDI-RB-2004261300 0.956, Description: PDI-RB-2004261300
lst Func. Pen	nta-Furans
200609R1_8 100- _ _ _ 19.01	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
%-19.37 19.5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
200609R1_8	mana and a second and and and and and a second as a s
100	26.92 341.83 26.24 1.797e+00
19.07 % 19.17	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
0	m 50 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50 28.00
DPE6 200609R1_8	
1007	F1:Voltage SIR,E 409.797 1.686e+00
	25.14
-	
19.07	21.14 23.36 28.20
%- 19.33 19.5	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
0	
19.50	

Quantify Sam Vista Analytica		Ma	ssLynx 4.1	SCN815											Page 74 of 18
Dataset:	Untitled														
ast Altered:				6:36 Pacific 8:53 Pacific											
Name: 200609	9R1_8, Date:	: 09-Jun-2	2020, Time:	16:23:33, II	D: 200094	7-02 PDI-I	RB-20042	261300 0.9	56, Descr	iption: Pl	DI-RB-200	4261300			
1,2,3,7,8-PeCl	DF					c	、 、								
200609R1_8 100-∃ 28.55	SN			ふ		Sr			SN	31,21		SN			2:Voltage SIR,E 339.86
	8.70 28.87	29.07 29.19	29.35 29	.54 29.57		0.18 30.26	30.57 <sup>3</sup>	0.69 30.78	30.99 31.	10 31.31	31.45 <sup>31.5</sup>	1 31.7731.8	3 32.02 3	32.11 32.3	1.935e+00
00609R1_8		r	, ,		,	·	,	'	,	,	·	I	I	F	2:Voltage SIR,E
28.46 28.6	4 28.75	29.09 29	29.44 29.5	1 29.74 29.7	83 29.97	30.17 30.23	30.44	0.70 <sup>30.75</sup>	30.96 3	31.15 31.3 31.18	34 31.47	66 <sup>31.73</sup>	.88 32.11 32	32.31	341.85 32.49 1.899e+00
0 <sup>-1</sup> , , , , , , , , , , , , , , , , , , ,	28.75 29	.00 29	.25 29.5	29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	mi 32.50
<b>3C-1,2,3,7,8-</b> 00609R1_8	<b>PeCDF</b>			5	3,7,8-PeCD 30.15 .56e5 .80172			31 5.5	7,8-PeCDF 1.13 53e5 7828	<u> </u>				F.	2:Voltage SIR,E 351.9 9.907e+0
200609R1_8		,					,			·	,		ľ	F	2:Voltage SIR,E
100 %				13C-1,2	,3,7,8 <b>-PeC</b> E	0F;30.15;3.51	1e5;5907842	31 3.4	,7,8-PeCDF_ 1.13 46e5 9116	$\overline{\mathbf{A}}$					353.89 6.134e+00
0- <sup>-1</sup>	28.75 29.	.00 29	.25 29.5	) 29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	32.50 m
<b>DPE2</b> 200609R1_8 100 <sub>7</sub>	28. <del>9</del>	6												F	2:Voltage SIR,E 409.797 1.170e+00
28.51 28	8.78	28.99 29.10 29.2	29.27	20.92	9.88	30.28 03	30.41 30.54 	30.8		1.13 31.22	31.45 36, 31.57	7 31.76	32.00 31.94 32.17	32.21 32.31	32.40 32.44 32.5
0 28.50	28.75 29	.00 29	.25 29.5	) 29.75	30.00	30.25	30.50	30.75	31.00	31.25	31.50	31.75	32.00	32.25	m 32.50

Work Order 2000947

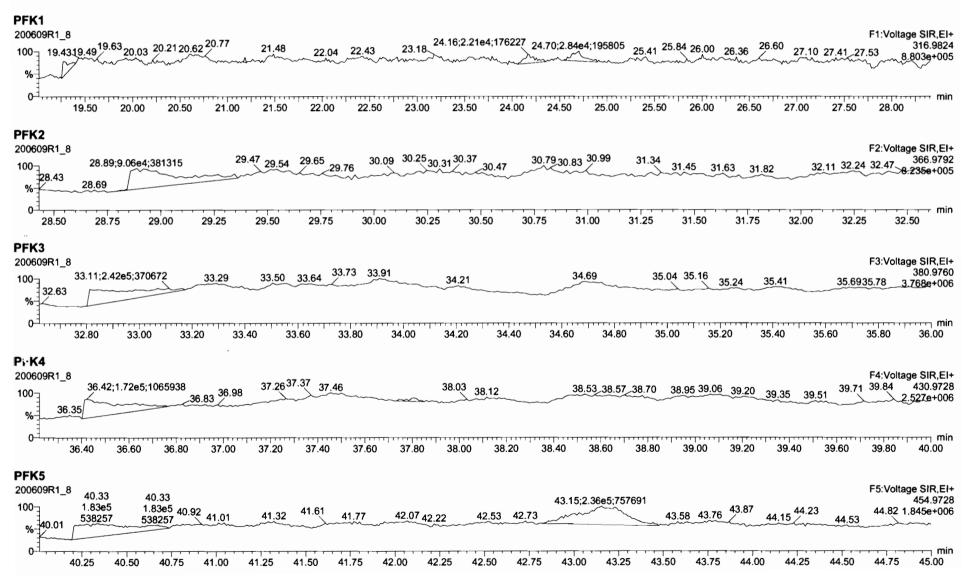
Quantify Sam Vista Analytica		Mass	sLynx 4.1	SCN815								Page 75 of 18
)ataset:	Untitled											
ast Altered: Printed:					c Daylight Time							
Name: 20060	9R1_8, Date:	09-Jun-20	20, Time:	16:23:33,	ID: 2000947-0	2 PDI-RB-20	)4261300 0.9	56, Descri	ption: PDI-F	RB-20042613	00	
1,2,3,4,7,8-Hx	CDF							_				
200609R1_8 100 <sup>32.62</sup>	52		SI	$\sim$		52		52		5		F3:Voltage SIR,EI 373.82 4.493e+00
% <u>32.76</u>	32.80 33.05	33.13	3.41.33.443	3.5433.63	33.85 33.95 34.0	1 34.08 34.29	34.37 34.55	34.69 34	75 34.91 34.94	435.11 35.22 35.	35.59 27 35.54/35.65	35.85
200609R1_8		1 1 1 1 1 1	1	1 1						, , ,		F3:Voltage SIR,EI
100	32.88 74 32.9433.04	33.23	33.3033.40	33.55	33.91 33.80	34.09 134.15 <sup>34.30</sup>	34.46 34.50 34	4.5434.71	34.95 35.00	35.20 35. 35.15	35.57 27 35.41 35.6	375.81 35.87 1.895e+00
0 <sup>-]</sup>	30 33.00	33.20	33.40	33.60	33.80 34.00	0 34.20	34.40 34	.60 34	.80 35.00	35.20	35.40 35.60	35.80 36.00
13C-1,2,3,4,7,	8-HxCDF											
200609R1_8 100⊣		13C-1,2,3	,4,7,8-HxCD	F;33.93;1.84	e5;3398324 13C-1	,2,3,4,6,9-HxCD	;34.32;2.26e5;39	927019	0 4 2 2 7 2 0 1		7-5-0101400	F3:Voltage SIR,EI 383.86 3.978e+00
,% 				<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	$\square$				зС-1,2,3,7,8,9 <del>-</del> г	łxCDF;35.55;1.5	7e5;2131486	3.9788-00
200609R1_8		1 1 1 1 1		, ,			, ,			,		F3:Voltage SIR,EI
100 %		13C-1,2,3	,4,7,8-HxCD	F;33.93;3.67	e5;6681872 13C-1	,2,3,4,6,9-HxCD	;34.32;4.49e5;79	986908 13	3C-1,2,3,7,8,9-H	1xCDF;35.55;3.14	4e5;4191479	385.86 8.107e+00
0 <sup>1</sup> ,,,,,,,,,,,,,,,, 32.8	BO 33.00	33.20	33.40	<b>33.60</b>	33.80 34.0	0 34.20	34.40 34	.60 34	.80 35.00	35.20	35.40 35.60	35.80 36.00
DPE3			2									
200609R1_8 100	32.98											F3:Voltage SIR,EI 445.755 2.474e+00
%_			33,36	33.64								
	1		٨	1	33.93 33.98		34.35					

33.93 33.98 34,35 35.08 35.12 35.24 35.60 33.04 33.62 33.29 35,38 34,75 35.98 32.62 34,26 34.60 34.99 35.82 Λ 35.80 36.00 0-33.60 35.00 35.20 35.40 35.60 32.80 33.00 33.40 33.80 34.20 34.60 34.80 33.20 34.00 34.40



	ple Report	MassLynx	4.1 SCN815												Page 7	'7 of 1
taset:	Untitled															
st Altered: nted:	Wednesday, Ju Wednesday, Ju															
													_			
me: 200609	9R1_8, Date: 09-	Jun-2020, Tii	me: 16:23:33	, ID: 2000947	-02 PDI-RE	3-200426	1300 0.9	56, Des	cription	: PDI-R	B-20042	61300				
<b>:DF</b> 1609R1_8				SN											F5:Voltag	e SIR.
40.18 4	0.24 40.78 40	0.83 41.01 4	41.6 1.26 41.43	41.90 5 41.76	1.96 42.24		12.8042.83 42.72M	43.03	13.20 43.	31 43.58	43.76	43.88 44.	17 44.24	44.60	_	441. 348e+
) <sup>+</sup> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1,,,,,,,,,,	· · [ · · · · · · ·									<u> </u>			<b>I</b>
609R1_8 40.19 2 40.01	40.29 40.54 40.65 40.	BO 41.00	41.29 41.35 41.	41.83 41.96 62	42.17 42.2 MMM	3 <sup>42.42</sup>	42.78 42	2.87 <sub>43.19</sub>	43.23 43	28	43.72	13.93	44.33 <sup>44.</sup>	37 44.5	F5:Voltag 0 2. 44.72 44	443. 182e+
بال 40.25	5 40.50 40.75	41.00 41	1.25 41.50	41.75 42.0	0 42.25	42.50	42.75	43.00	43.25	43.50	43.75	44.00	44.25	44.50	44.75	45.0
C-OCDF																
609R1_8			13C-0	DCDF;41.91;2.73	e5;3353106										F5:Voltag 3.	e SIR, 453.7 356e+
, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	<del>,,,</del> ,,,,,			<del>, , , , , , , , , , , , , , , , , , , </del>			· · · · ·				· · · · · ·				
609R1_8 ) <sub>⊐</sub>			13C-C	DCDF;41.91;3.12	e5;3986720										F5:Voltag	455.
, i i i i i i i i i i i i i i i i i i i				$\wedge$											3.9	994e+
<u>40.25</u>	5 40.50 40.75	41.00 41	1.25 41.50	41.75 42.0	0 42.25	42.50	42.75	43.00	43.25	43.50	43.75	44.00	44.25	44.50	44.75	45.0
E5																
609R1_8 )_]					42.20										F5:Voltag 3.	e SIR, 513.6 533e+
6																
• ] _ 40.18	40.61 40.69	40.90 41.02	41.54 41.56	8 41.74 41.78 42	1	2.40	42.78	43.08	43.27 4:	43.51 <sup>4</sup> 3.42	3.60 43.70 A.A.A.	3 43.95	44.20 44.: 	4 29 44.52	4.65	36

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dnesday, June 10, 2020 07:36:36 Pacific Daylight Time dnesday, June 10, 2020 07:38:53 Pacific Daylight Time	
tle In	ed nesday, June 10, 2020 07:36:36 Pacific Daylight Time



# CONTINUING CALIBRATION

# HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calbration ID: ST200609P1-1	_	I	Reviewed By: <u>(17 06/10/2020</u>		
End Calibration ID:NA			Initials & Date		
	Beg.	End		Beg.	End
Ion abundance within QC limits?	~	NA	Mass resolution >	~	
Concentrations within criteria?	$\checkmark$		□ 5k □ 6-8K □ 8K ⊠ 10K 1614 1699 429 1613/1668/8280		
TCDD/TCDF Valleys <25%	1		Intergrated peaks display correctly?	~	NA
First and last eluters present?	$\checkmark$		GC Break <20%		
<b>Retention Times within criteria?</b>	$\checkmark$		8280 CS1 End Standard:		
Verification Std. named correctly?	/		- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		NA
(ST-Year-Month-Day-VG ID)					
Forms signed and dated?	$\square$		Comments:		
Correct ICAL referenced?	GRB				
Run Log:					
- Correct instrument listed?	$\checkmark$	$\mathbf{V}$			
- Samples within 12 hour clock?	$(\dot{\mathcal{V}})$	Ν			
- Bottle position verfied?	G	FB			

Quantify San Vista Analytica	aple Summary Report MassLynx 4.1 SCN815 al Laboratory	Page 1 of 2
Dataset:	U:\VG12.PR0\Results\200609R1\200609R1-1.qld	
Last Altered: Printed:	Tuesday, June 09, 2020 15:48:48 Pacific Daylight Time Tuesday, June 09, 2020 15:49:12 Pacific Daylight Time	GPB 06/09/2020

C7 06/00/2020

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

## Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	6.69e4	7.76e5	0.77	NO	0.888	26.47	26.47	NO	1.001	1.001	9.7019	97.0	NO
2	2 1,2,3,7,8-PeCDD	2.54e5	5.73e5	0.62	NO	0.908	31.44	31.43	NO	1.001	1.000	48.820	97.6	NO
3	3 1,2,3,4,7,8-HxCDD	2.09e5	3.88e5	1.24	NO	1.03	34.80	34.80	NO	1.000	1.000	52.134	104	NO
4	4 1,2,3,6,7,8-HxCDD	2.21e5	5.08e5	1.25	NO	0.892	34.89	34.91	NO	1.000	1.001	48.713	97.4	NO
5	5 1,2,3,7,8,9-HxCDD	1.98e5	4.50e5	1.25	NO	0.887	35.19	35.19	NO	1.000	1.000	49.568	99.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.65e5	3.76e5	1.02	NO	0.864	38.72	38.72	NO	1.000	1.000	50.921	102	NO
7	7 OCDD	2.73e5	5.63e5	0.90	NO	0.914	41.69	41.71	NO	1.000	1.000	105.99	106	NO
8	8 2,3,7,8-TCDF	7.75e4	1.06e6	0.74	NO	0.751	25.57	25.57	NO	1.001	1.001	9.7592	97.6	NO
9	9 1,2,3,7,8-PeCDF	3.61e5	8.20e5	1.60	NO	0.893	30.14	30.15	NO	1.001	1.001	49.333	98.7	NO
10	10 2,3,4,7,8-PeCDF	4.01e5	8.45e5	1.58	NO	0.935	31.15	31.13	NO	1.001	1.000	50.741	101	NO
11	11 1,2,3,4,7,8-HxCDF	2.63e5	5.62e5	1.22	NO	0.884	33.91	33.93	NO	1.000	1.001	52.827	106	NO
12	12 1,2,3,6,7,8-HxCDF	2.89e5	6.30e5	1.23	NO	0.889	34.05	34.05	NO	1.000	1.000	51.542	103	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.61e5	1.22	NO	0.934	34.66	34.63	NO	1.001	1.000	52.017	104	NO
14	14 1,2,3,7,8,9-HxCDF	2.01e5	4.43e5	1.21	NO	0.871	35.54	35.55	NO	1.000	1.000	52.022	104	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.17e5	4.69e5	1.03	NO	0.873	37.34	37.32	NO	1.001	1.000	52.918	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.45e5	2.73e5	1.01	NO	1.01	39.26	39.27	NO	1.000	1.000	52.294	105	NO
17	17 OCDF	2.72e5	6.43e5	0.87	NO	0.806	41.89	41.90	NO	1.000	1.000	104.72	105	NO
18	18 13C-2,3,7,8-TCDD	7.76e5	6.44e5	0.77	NO	1.16	26.46	26.44	NO	1.02 <b>6</b>	1.026	104.29	104	NO
19	19 13C-1,2,3,7,8-PeCDD	5.73e5	6.44e5	0.64	NO	0.849	31.64	31.42	NO	1.227	1.219	104.85	105	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.88e5	5.47e5	1.27	NO	0.779	34.80	34.79	NO	1.014	1.014	91.074	91.1	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.08e5	5.47e5	1.26	NO	1.02	34.91	34.89	NO	1.017	1.017	91.480	91.5	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.50e5	5.47e5	1.26	NO	0.903	35.18	35.18	NO	1.025	1.025	91.190	91.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.76e5	5.47e5	1.06	NO	0.68 <del>9</del>	38.70	38.71	NO	1.128	1.128	99.723	99.7	NO
24	24 13C-OCDD	5.63e5	5.47e5	0.88	NO	0.652	41.72	41.69	NO	1.216	1.215	158.08	79.0	NO
25	25 13C-2,3,7,8-TCDF	1.06e6	1.01e6	0.77	NO	1.06	25.50	25.54	NO	0.989	0.991	98.534	98.5	NO
26	26 13C-1,2,3,7,8-PeCDF	8.20e5	1.01e6	1.54	NO	0.838	30.02	30.12	NO	1.165	1.168	96.54 <b>8</b>	96.5	NO
27	27 13C-2,3,4,7,8-PeCDF	8.45e5	1.01e6	1.63	NO	0.817	30.97	31.11	NO	1.202	1.207	102.15	102	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.62e5	5.47e5	0.50	NO	1.01	33.93	33.91	NO	0.989	0.988	102.05	102	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.30e5	5.47e5	0.49	NO	1.17	34.05	34.04	NO	0.992	0.992	98.780	98.8	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.61e5	5.47e5	0.50	NO	1.02	34.63	34.62	NO	1.00 <b>9</b>	1.00 <del>9</del>	100.37	100	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.43e5	5.47e5	0.51	NO	0.860	35.53	35.54	NO	1.035	1.036	94.323	94.3	NO

•	aple Summary Report al Laboratory VG-11	MassLynx 4.1 SCN815
Dataset:	U:\VG12.PRO\Results\20	0609R1\200609R1-CPSM.qld
Last Altered: Printed:		1:44:41 Pacific Daylight Time 5:49:33 Pacific Daylight Time

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

## Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.43
2	2 1,2,8,9-TCDD (Last)	27.43
3	3 1,2,4,7,9-PeCDD (First)	29.21
4	4 1,2,3,8,9-PeCDD (Last)	31.82
5	5 1,2,4,6,7,9-HxCDD (First)	33.30
6	6 1,2,3,7,8,9-HxCDD (Last)	35.19
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.71
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.72
9	9 1,3,6,8-TCDF (First)	20.29
10	10 1,2,8,9-TCDF (Last)	27.58
11 ,	11 1,3,4,6,8-PeCDF (First)	27.53
12	12 1,2,3,8,9-PeCDF (Last)	32.06
13	13 1,2,3,4,6,8-HxCDF (First)	32.75
14	14 1,2,3,7,8,9-HxCDF (Last)	35.55
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.32
16	16 1,2,3,4,7,8,9-HpCDF (Last)	39.27

Page 1 of 1

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

# Dataset: U:\VG12.PRO\Results\200609R1\200609R1-1.qld

Last Altered:	Tuesday, June 09, 2020 15:48:48 Pacific Daylight Time
F <sup>-</sup> inted:	Tuesday, June 09, 2020 15:49:12 Pacific Daylight Time

## Name: 200609R1\_1, Date: 09-Jun-2020, Time: 10:57:02, ID: ST200609R1\_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.69e5	5.47e5	0.43	NO	0.774	37.27	37.31	NO	1.086	1.087	110.73	111	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.73e5	5.47e5	0.44	NO	0.521	39.30	39.26	NO	1.145	1.144	95.871	95.9	NO
34	34 13C-OCDF	6.43e5	5.47e5	0.88	NO	0.746	41.89	41.89	NO	1.221	1.221	157.78	78.9	NO
35	35 37CI-2,3,7,8-TCDD	7.00e4	6.44e5			1.04	26.49	26.45	NO	1.028	1.026	10.493	105	NO
36	36 13C-1,2,3,4-TCDD	6.44e5	6.44e5	0.80	NO	1.00	25.89	25.78	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.01e6	1.01e6	0.79	NO	1.00	24.36	24.09	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.47e5	5.47e5	0.51	NO	1.00	34.42	34.31	NO	1.000	1.000	100.00	100	YESOK

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

Dataset: Untitled

Last Altered:Wednesday, June 10, 2020 07:20:40 Pacific Daylight TimePrinted:Wednesday, June 10, 2020 07:20:53 Pacific Daylight Time

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

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

1	Name	ID	Acq.Date	Acq.Time
1	200609R1_1	ST200609R1_1 1613 CS3 19L2305	09-Jun-20	10:57:02
2	200609R1_2	B0E0092-BS1 OPR 1	09-Jun-20	11:45:38
3	200609R1_3	B0E0102-BS1 OPR 1	09-Jun-20	12:31:50
4	200609R1_4	SOLVENT BLANK	09-Jun-20	13:18:44
5	200609R1_5	B0E0092-BLK1 Method Blank 1	09-Jun-20	14:04:56
6	200609R1_6	B0E0102-BLK1 Method Blank 1	09-Jun-20	14:51:06
7	200609R1_7	2000947-01 PDI-FB-2004261231 0.9811	09-Jun-20	15:37:22
8	200609R1_8	2000947-02 PDI-RB-2004261300 0.956	09-Jun-20	16:23:33
9	200609R1_9	2001037-01 PDI-FB-2005071044 1.05401	09-Jun-20	17:09:44
10	200609R1_10	2001037-02 PDI-RB-2005071052 1.04239	09-Jun-20	17:55:56
11	200609R1_11	2000982-01 EFF-001 COMP 0.8885	09-Jun-20	18:42:08
12	200609R1_12	2000983-01 RSW-001 0.869	09-Jun-20	19:28:19
13	200609R1_13	2000984-01 INF-001 COMP 0.82341	09-Jun-20	20:14:30
14	200609R1_14	2001020-01 LU03324 0.88952	09-Jun-20	21:00:44
15	200609R1_15	2001040-01 RSW-002A 0.91416	09-Jun-20	21:46:57
16	200609R1_16	2001046-01 New Well 0.9675	09-Jun-20	22:33:07

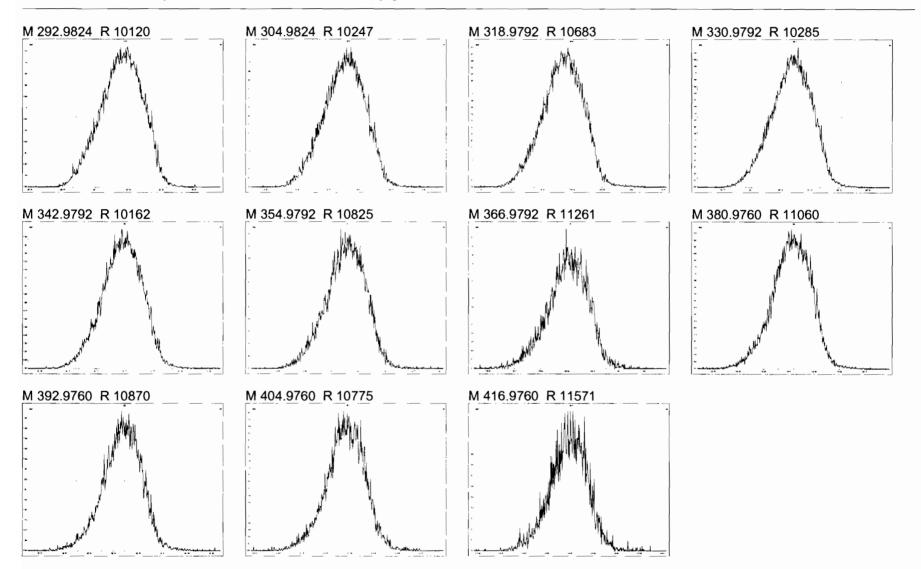
# **Experiment Calibration Report**

#### MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Tuesday, June 09, 2020 10:52:33 Pacific Daylight Time

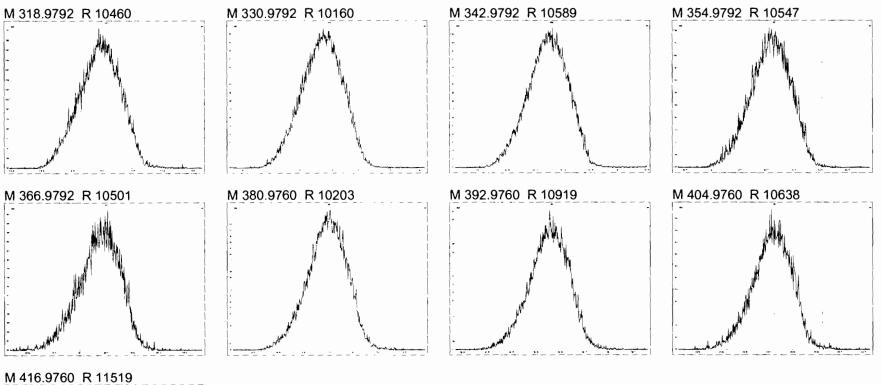


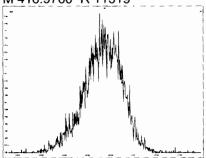
# **Experiment Calibration Report**

# MassLynx 4.1 SCN815

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

Printed: Tuesday, June 09, 2020 10:52:58 Pacific Daylight Time





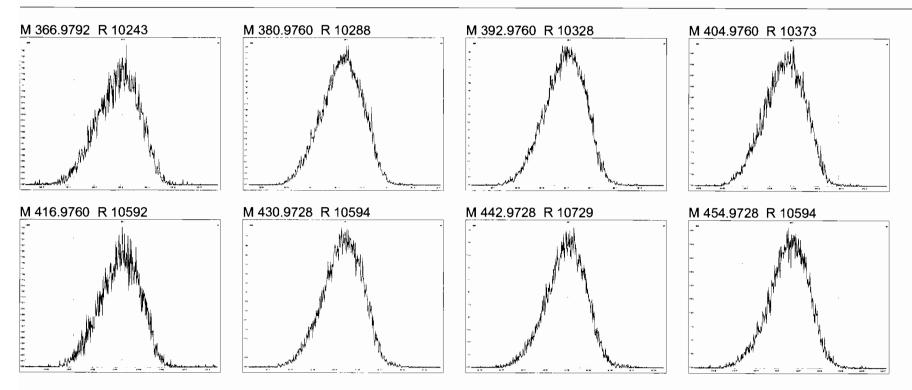
## **Experiment Calibration Report**

# MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Tuesday, June 09, 2020 10:53:24 Pacific Daylight Time



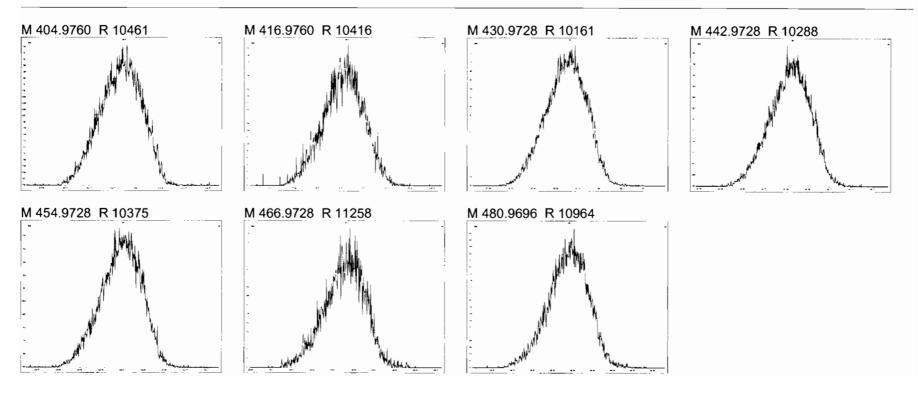
## **Experiment Calibration Report**

## MassLynx 4.1 SCN815

Page 1 of 1

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

Printed: Tuesday, June 09, 2020 10:53:50 Pacific Daylight Time



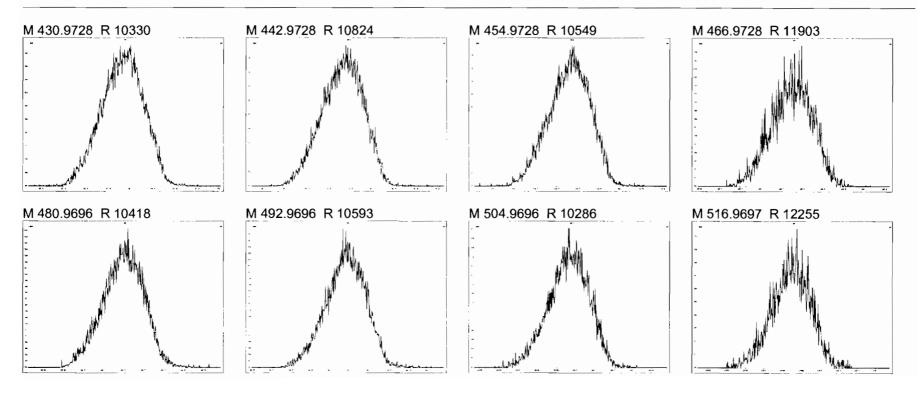
## **Experiment Calibration Report**

## MassLynx 4.1 SCN815

Page 1 of 1

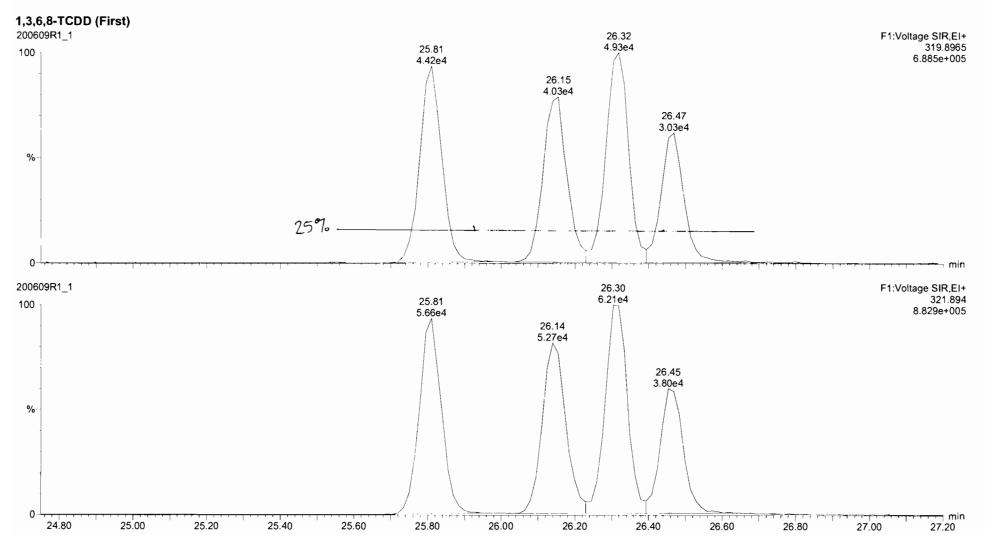
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Printed: Tuesday, June 09, 2020 10:54:19 Pacific Daylight Time



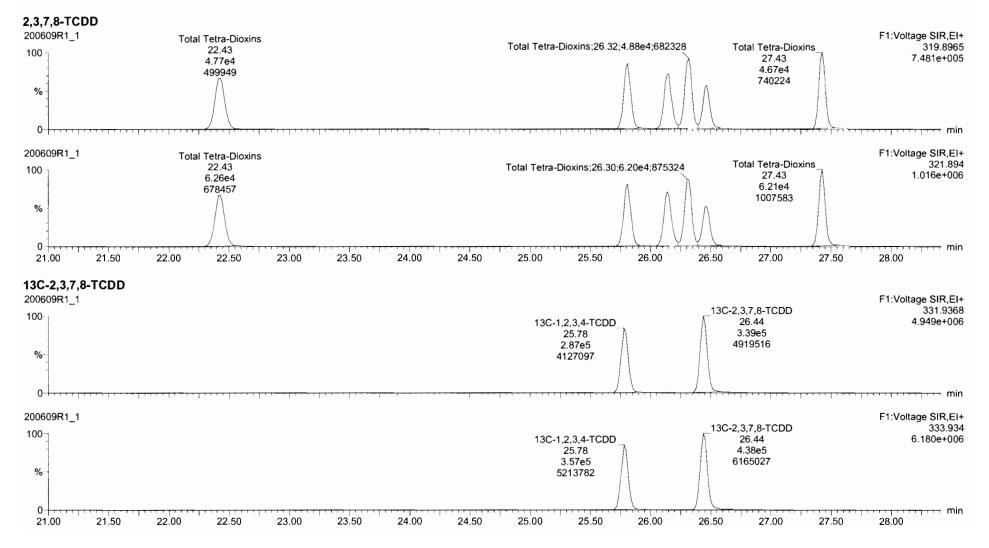
Quantify San Vista Analytic	nple Report MassLynx 4.1 SCN815 al Laboratory VG-11	Page 1 of 1
Dataset:	U:\VG12.PRO\Results\200609R1\200609R1-CPSM.qld	
Last-Altered: Printed:	Tuesday, June 09, 2020 11:44:41 Pacific Daylight Time Tuesday, June 09, 2020 15:49:33 Pacific Daylight Time	GPB 06/09/2020

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

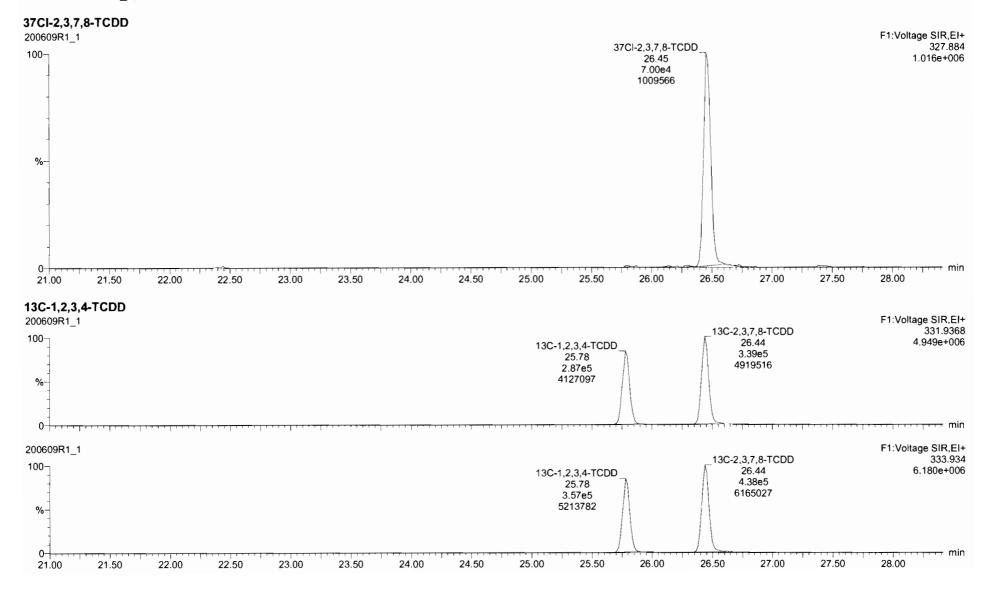


Quantify San Vista Analytica		Page 1 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time	

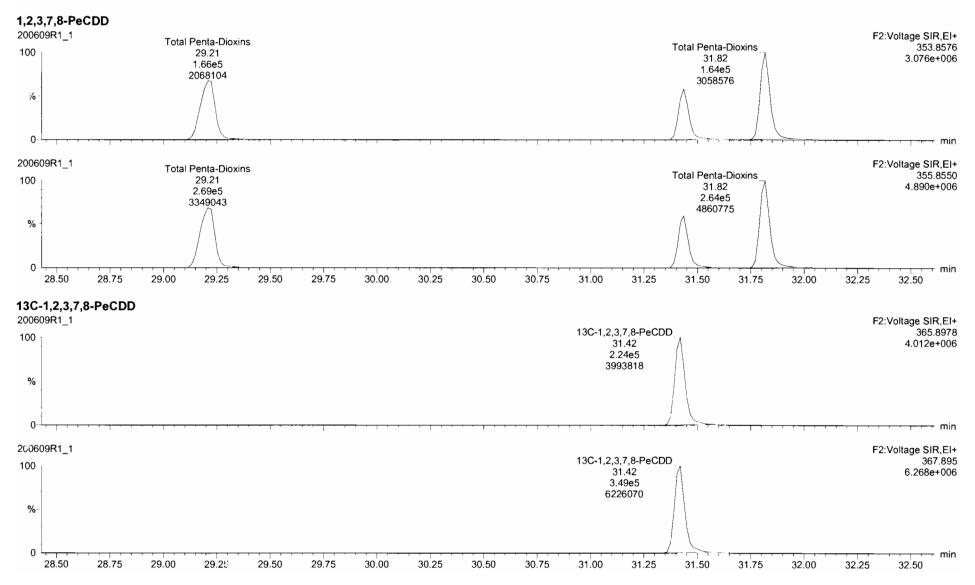
#### Method: U:\VG12.PRO\MethDB\1613rrt-06-01-20.mdb 01 Jun 2020 11:54:45 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08



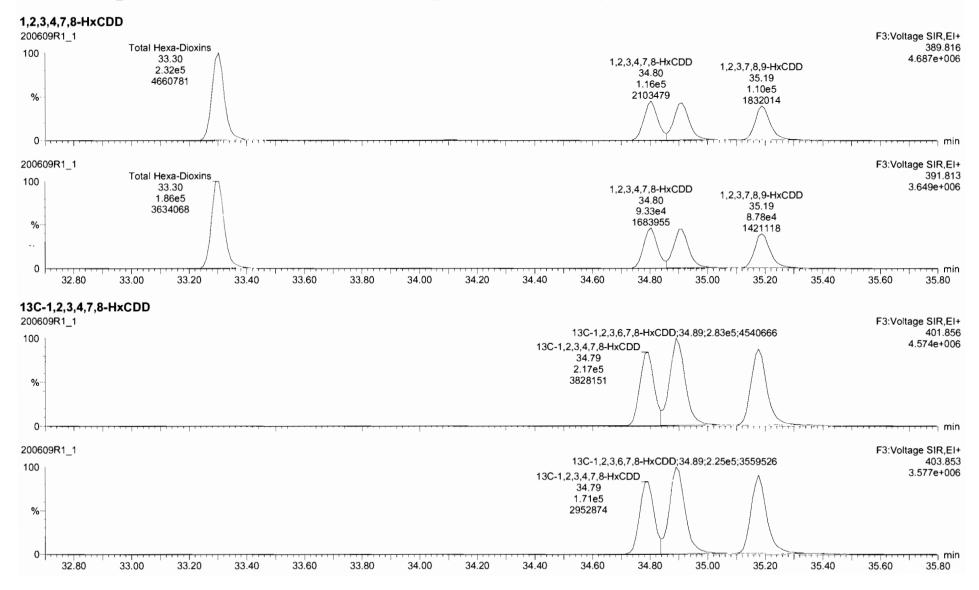
Quantify San Vista Analytica		Page 2 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time	



Quantify Sam Vista Analytica		Page 3 of 13
Dataset:	Untitled	
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Quantify San Vista Analytic	mple Report MassLynx 4.1 SCN815 cal Laboratory	Page 4 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time	

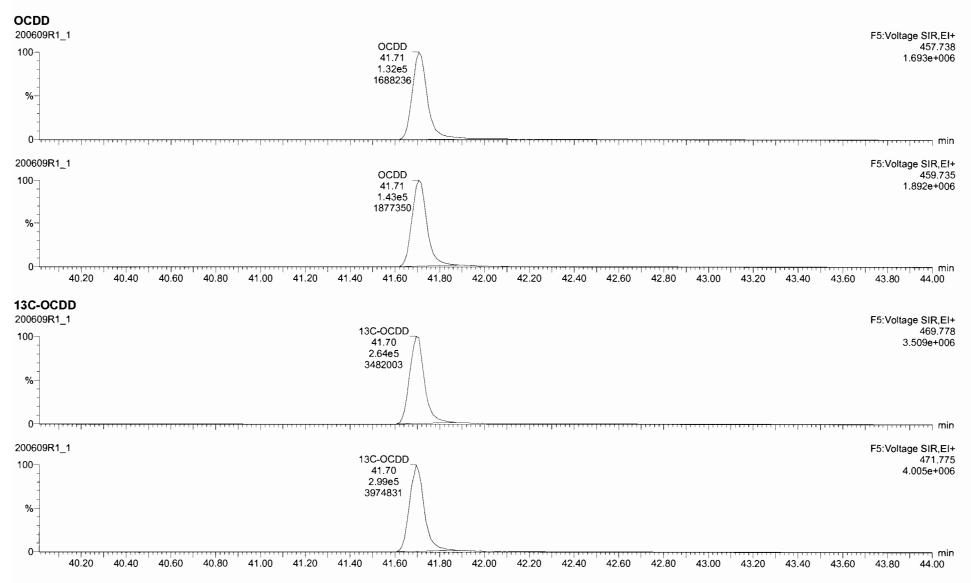


#### Work Order 2000947

Quantify Sam Vista Analytica	. ,	Page 5 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time	

1,2,3,4,6,7,8-HpCDD 200609R1\_1 F4:Voltage SIR,EI+ **Total Hepta-Dioxins** 423.777 100 1,2,3,4,6,7,8-HpCDD 37.71 2.243e+006 38.72 1.65e5 8.35e4 2231214 1220927 % 0 --- min 200609R1\_1 F4:Voltage SIR,EI+ Total Hepta-Dioxins 425.774 100-1,2,3,4,6,7,8-HpCDD 37.70 2.166e+006 38.72 1.62e5 8.17e4 2155861 1186410 % 0 min \_\_\_\_ 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 13C-1,2,3,4,6,7,8-HpCDD 200609R1\_1 F4:Voltage SIR,EI+ 13C-1,2,3,4,6,7,8-HpCDD 435.817 100 38.71 2.677e+006 1.93e5 2672005 % 0... min prosperation 200609R1\_1 F4:Voltage SIR,EI+ 13C-1,2,3,4,6,7,8-HpCDD 38.70 437.814 100 2.632e+006 1.82e5 2619072 % 0 n min 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

Quantify San Vista Analytica		Page 6 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time	



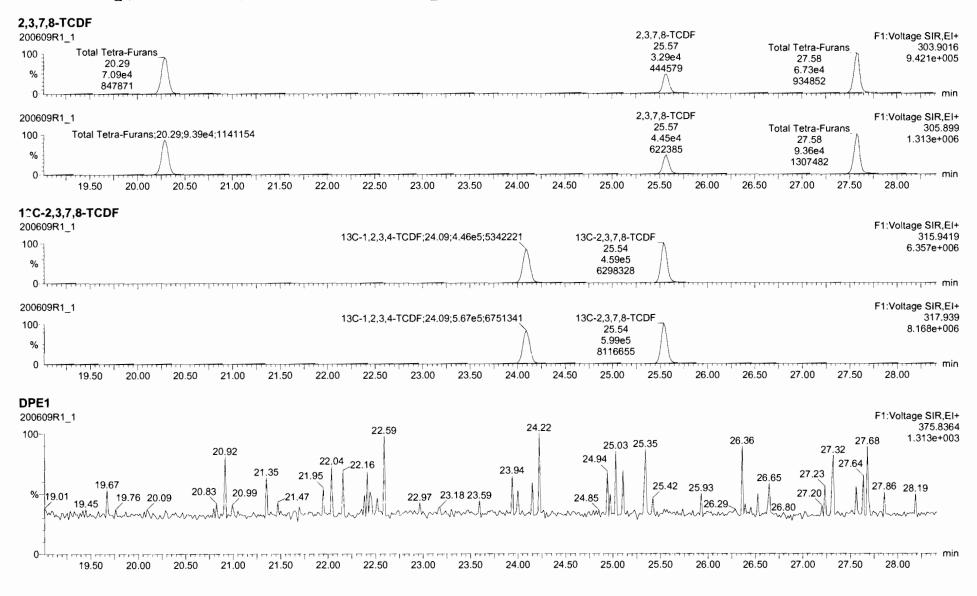
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	2.2.4.7 8-HxCDD	2 09e5	3 88e5			NO	1 0224	24 20	24 8	10 N/		1 000	1 000	52.1	104		1																
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	2.3 7.8 9-HxCDC	1 92e5	4 5065	1 24	1 25	NO	0 8269	75 19	25.1	9 11	,	1 000	1 000	49 E	99 1	4	7																
	2,3,4,6 7 8-HpCCC	1 65e5	3 76e5		1.02			36 72				1 000	1 000	50.9	102	4	5																
7 70		27365	5.63e5	0.89				41 69					1 000	106	106	N																	
8 82	3 7.5-TCCF	7 75e4	1 06e6	0 77	0.74	NO	0 75 10	25 57	25 5	7 11	, , ,	1 001	1 001	975	97 E	11	5																
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	3.4.7.8-PeCDF	4 01e5	8 45e5	1.55	1 58	NO	0 9242	21 15	21 1	2 10	2	1 001	1 000	50 7	101	NO	7																
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12 12 1	2,3,5,7,8-HxCDF	2 89e5	6 30e5	1 24	1 23	0H	0 2892	34 05	24 0	5 10	1 1	1 300	1 000	515	102	10																	
13 13 2	3.4.F.7.8-HxCDF	2 72e5	5 61e5	1 24	1 22	NO	0 9241	34 66	24 9	2 16		1 201	1 000	52.0	104	10	7																
14 14 1.	2,3,7,8 9-HxCDF	2 01e5	4 4365	1 24	121	NO	0 8707	25 54	25.5	5 140		1 000	1 000	52.0	104	N	7																
15 15 1.	2.3.4.6 7.8-HpCDF	2 17e5	4 69e5	104	1 0 2	110	0 8734	37 34	2-3	2 14		1 001	1 000	52.9	106	N	0																
16 16 1.	2,3.4,7 8,9-HpCDF	1 45e5	2 73e5	1 04	101	NO	10.28	29.25	:92	- P:	; ;	1 002	1 080	52.2	105	N:																	
17 17 0	CDF	2 75e5	6 4365	0 89	0.85	10	3 5055	41 59	419	20 N.	)	1 000	1 000	105	10€	4	1																-
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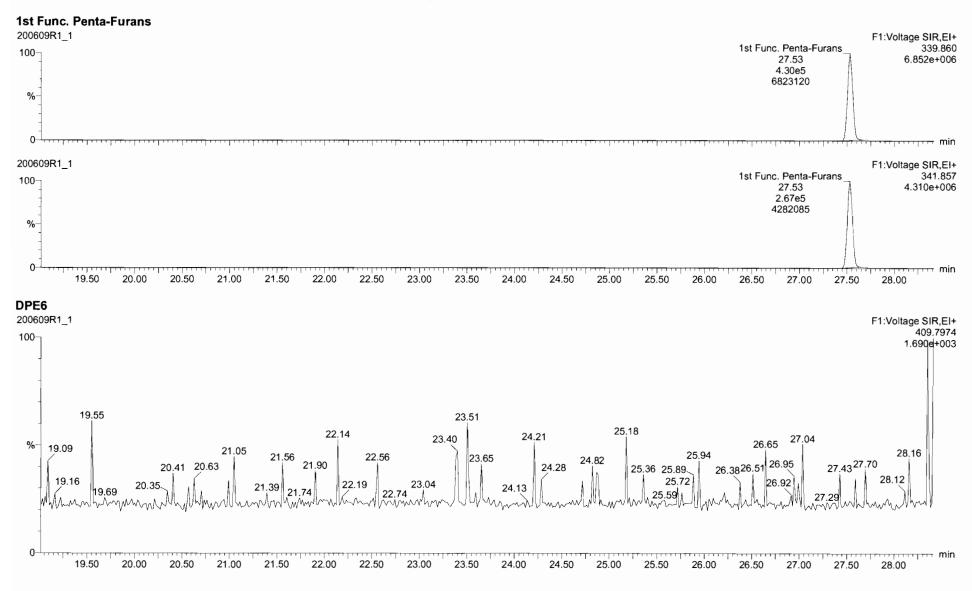
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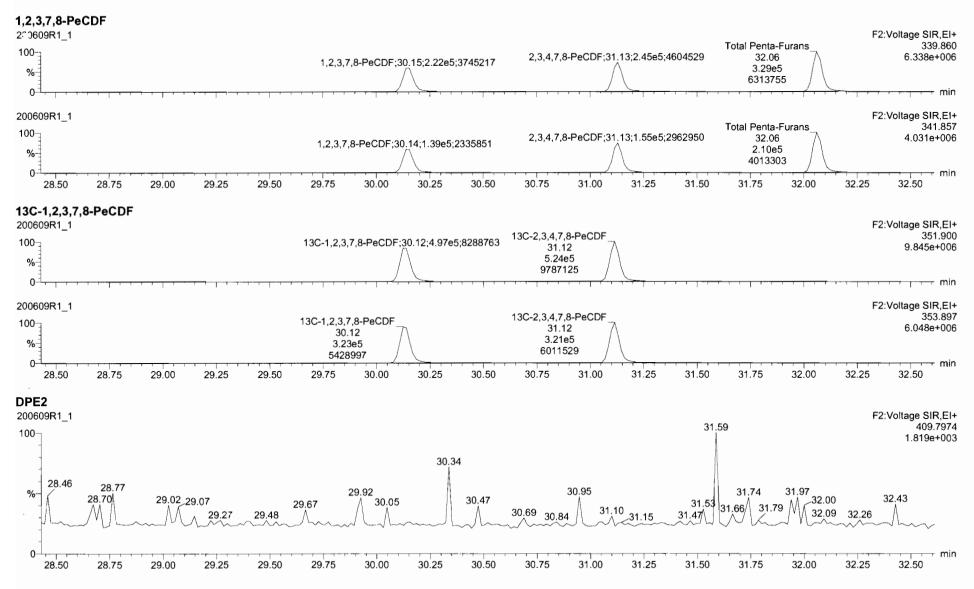
Quantify San Vista Analytica		Page 7 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time	



Quantify Sam Vista Analytica		assLynx 4.1 SCN815	Page 8 of 13
Dataset:	Untitled		
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Quantify Sample Report Vista Analytical Laboratory		MassLynx 4.1 SCN815	Page 9 of 13
Dataset:	Untitled		
		09, 2020 15:43:08 Pacific Daylight Time 09, 2020 15:43:22 Pacific Daylight Time	



Quantify San Vista Analytic		Page 10 of 13
Dataset:	Untitled	
Last Altered: Printed:	Tuesday, June 09, 2020 15:43:08 Pacific Daylight Time Tuesday, June 09, 2020 15:43:22 Pacific Daylight Time	

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33.40

33.80

34.00

34.20

34.40

34.60

34.80

35.00

35.20

35.40

35.60

#### 1,2,3,4,7,8-HxCDF F3:Voltage SIR,EI+ 200609R1\_1 Total Hexa-Furans;32.75;2.48e5;4903659 1,2,3,7,8,9-HxCDF 373.821 35.55 100-4.924e+006 2,3,4,6,7,8-HxCDF;34.63;1.50e5;2633843 1.10e5 1,2,3,6,7,8-HxCDF;34.05;1.59e5;2857483 1712669 %-0---- min 200609R1\_-1 Total Hexa-Furans;32.75;2.08e5;4171185 F3:Voltage SIR,EI+ 1,2,3,7,8,9-HxCDF 375.818 35.55 100-4.190e+006 2,3,4,6,7,8-HxCDF;34.63;1.23e5;2171598 9.07e4 1,2,3,6,7,8-HxCDF;34.05;1.29e5;2358434 % 1403466 - min 0-34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60 35.80 36.00 32.80 33.00 33.20 33.40 33.60 33.80 34.00 13C-1,2,3,4,7,8-HxCDF 200609R1 1 F3:Voltage SIR,EI+ 13C-2,3,4,6,7,8-HxCDF;34.62;1.88e5;3303130 13C-1,2,3,6,7,8-HxCDF;34.04;2.07e5;3722629 383.864 100 ] 3.764e+006 %----- min 0-F3:Voltage SIR,EI+ 200609R1\_1 13C-1,2,3,6,7,8-HxCDF;34.04;4.23e5;7419984 13C-2,3,4,6,7,8-HxCDF;34.62;3.73e5;6369786 385.861 100 ] 7.476e+006 % --- min 0 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60 35.80 36.00 32.80 33.00 33.20 33.40 DPE3 F3:Voltage SIR,EI+ 200609R1\_1 33.96 445.7555 100-1.897e+003 35.07 35.21 % 33.58 33.73 33.85 33.10 34.43 33.40 34.56 34.97 35.93 32.63 32.79 33.29 34.13 34.78 34.89 35.28 35.3935.49 35.6035.70 35.86 34.31 32.95 33.52 min I min

32.80

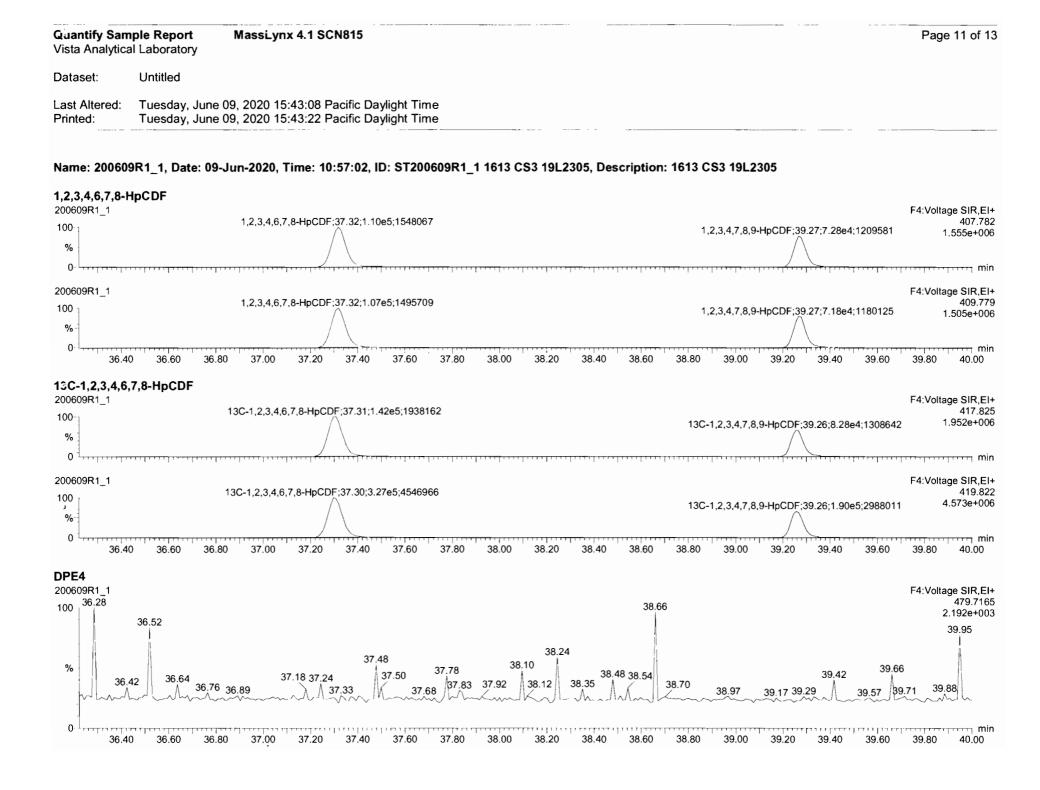
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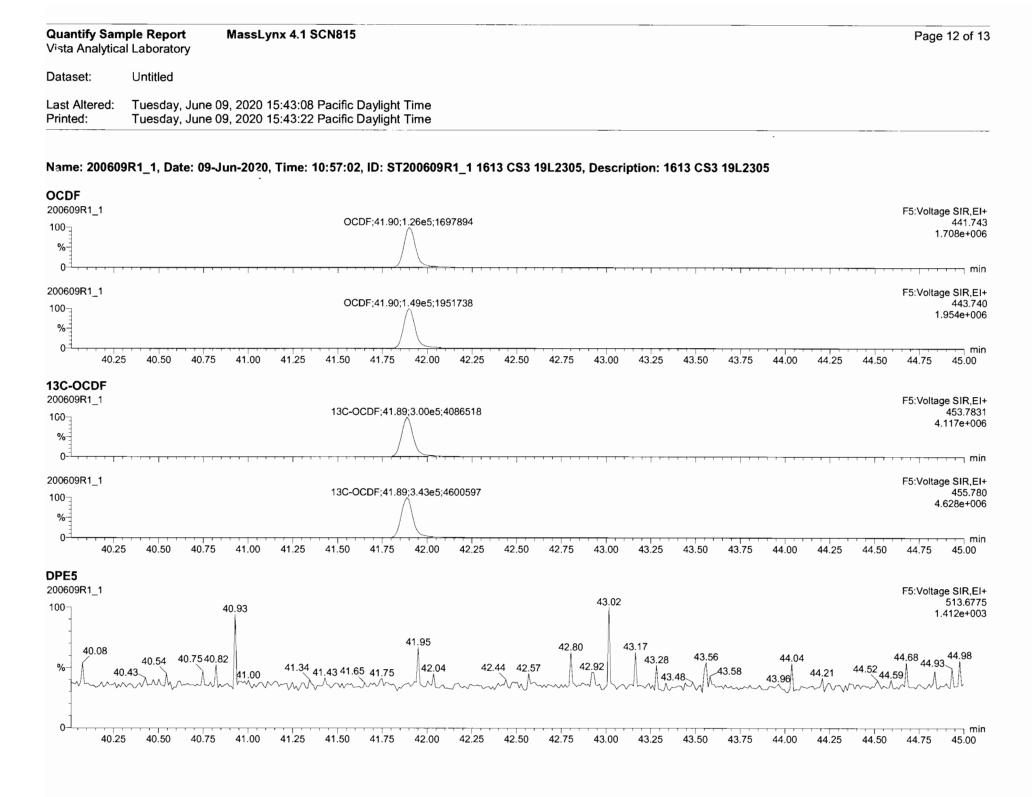
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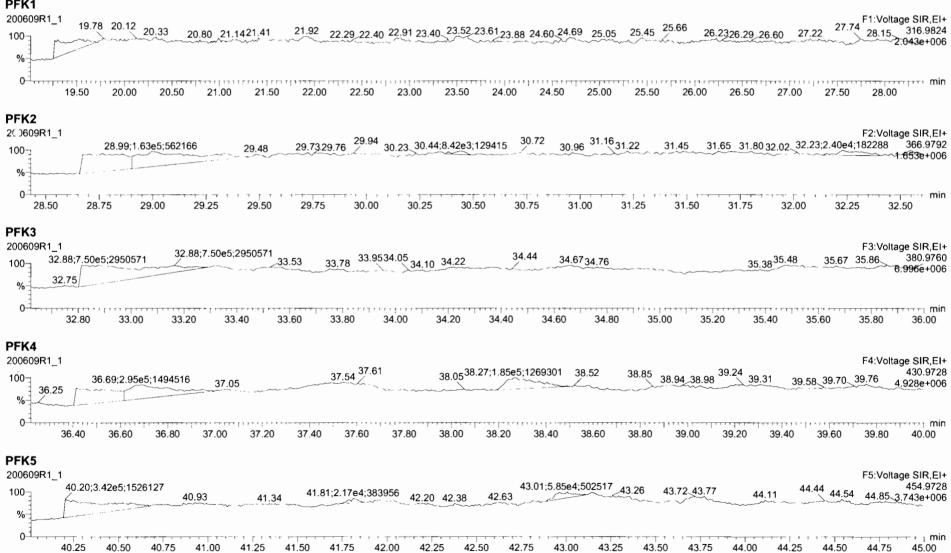


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9		2,3 7 8-PeCDF	36165	8 20e5				0 8925		20.15	1/0	1 00 1	1 001	103	98.7	NC															
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11		2.3,4,7.8-HxCDF 3.6,7.8-HxCDF	2 63e5 2 89e5	5 62e5 6 30e5		1.22		0.8892		24 05	10	1 000	1 000	515	103	NO															
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15		2,3,4,6,7,8-HpCDF	2 17e5	4 69e5		1 03			37 34		NO	1 001	1 000	62.9	106	NC															
16		2.3.4.7.8.9-HpCDF	1 45e5	2 73e5		1 01			29.26		NO	1 000	1 000	52.2	105	NC															
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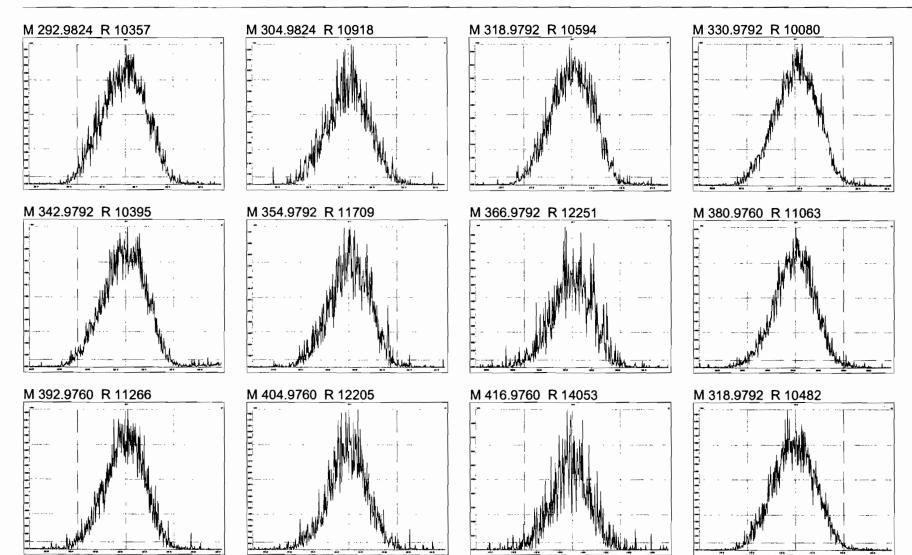
Quantify San Vista Analytica	nple Report MassLynx 4.1 SCN815			Page 13 of 13
Dataset:	Untitled			
Last Altered: Printed:	Tuesday, June 09, 2020 15:43:08 Pacific Daylig Tuesday, June 09, 2020 15:43:22 Pacific Daylig		· · · ·	
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MassLynx 4.1 SCN815

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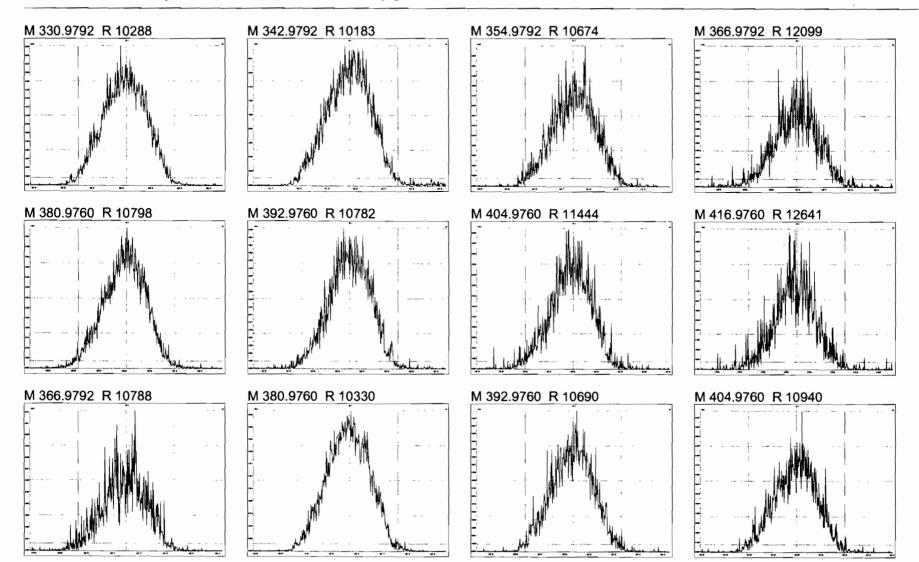




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## Page 2 of 4

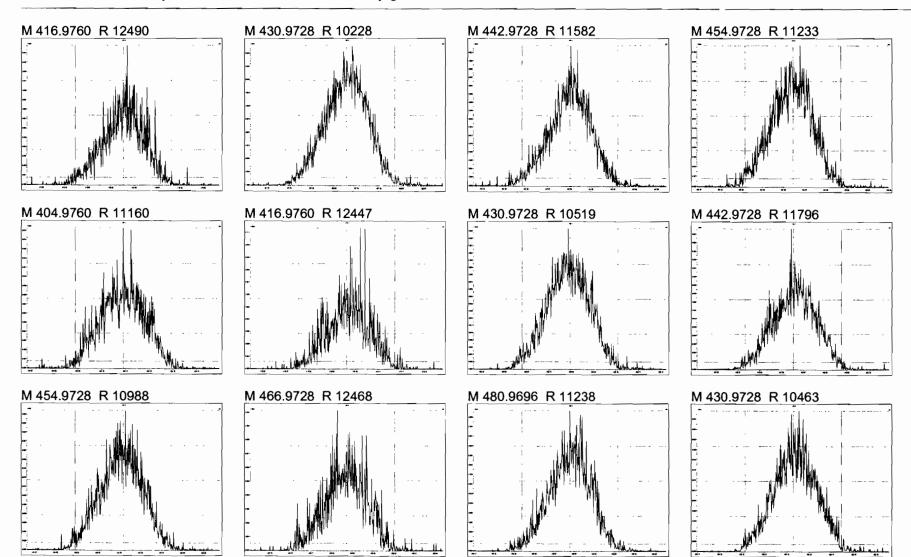
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MassLynx 4.1 SCN815

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



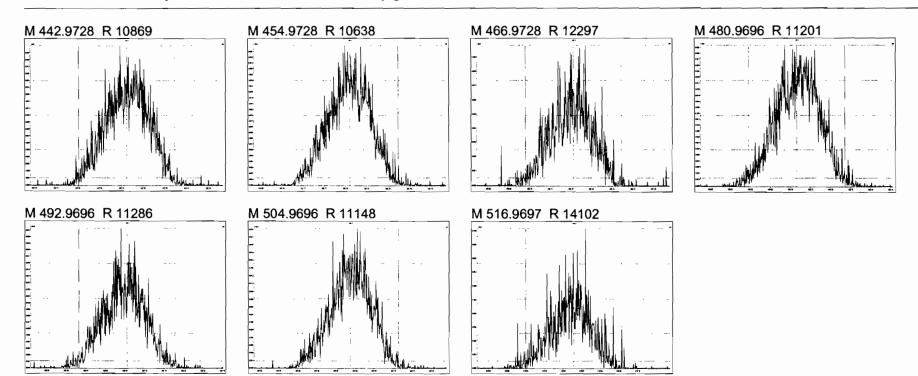
MassLynx 4.1 SCN815

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



## **INITIAL CALIBRATION**

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

Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17 Calibration: U:\VG12.PRO\CurveDB\db5 1613vg12-5-28-20.cdb 28 May 2020 16:52:08

Compound name: 2,3,7,8-TCDD Response Factor: 0.88831 RRF SD: 0.0677802, Relative SD: 7.63025 Response type: Internal Std ( Ref 18 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

Compound name: 1,2,3,7,8-PeCDD Response Factor: 0.908065 RRF SD: 0.0455724, Relative SD: 5.01862 Response type: Internal Std (Ref 19), Area \* (IS Conc. / IS Area) Curve type: RF

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

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

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

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

.51

Compound name: 1,2,3,6,7,8-HxCDD Response Factor: 0.892293 RRF SD: 0.0561127, Relative SD: 6.28859 Response type: Internal Std ( Ref 21 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

#### Compound name: 1,2,3,7,8,9-HxCDD Response Factor: 0.886936 RRF SD: 0.0582559, Relative SD: 6.56822 Response type: Internal Std ( Ref 22 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

Std. Conc RA n/y RT RRT IS Resp Conc. %Dev RRF X = dropped Name Resp 200528R2\_1 1.25 1.20 NO 35.25 1.000 8.14e3 8.33e5 1.10 -11.9 0.782 bb 2 200528R2\_2 2.50 NO -2.3 0.866 1.21 35.27 1.001 1.62e4 7.48e5 2.44 bb

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

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

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

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

1355	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	0.99	NO	38.78	1.000	6.10e3	6.48e5	1.09	-12.8	0.753	MM
2	200528R2_2	2.50	1.05	NO	38.81	1.001	1.21e4	6.01e5	2.33	-6.7	0.806	bb
3	200528R2_3	10.0	1.03	NO	38.80	1.000	4.99e4	5.57e5	10.4	3.7	0.896	bd
4	200528R2_4	200	1.02	NO	38.80	1.000	1.25e6	6.86e5	211	5.5	0.911	bb
5	200528R2_5	1500	1.01	NO	38.81	1.000	1.15e7	8.18e5	1620	8.0	0.933	bb
6	200528R2_6	50.0	1.03	NO	38.81	1.000	2.29e5	5.18e5	51.2	2.4	0.884	MM

## Compound name: OCDD

Response Factor: 0.913637 RRF SD: 0.0452527, Relative SD: 4.95303 Response type: Internal Std ( Ref 24 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

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

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

Compound name: 1,2,3,7,8-PeCDF Response Factor: 0.892531 RRF SD: 0.0599961, Relative SD: 6.72201 Response type: Internal Std ( Ref 26 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.61	NO	30.20	1.000	1.46e4	1.50e6	1.09	-12.9	0.777	bb
2	200528R2_2	2.50	1.55	NO	30.23	1.000	3.08e4	1.37e6	2.52	0.8	0.900	bd
3	200528R2_3	10.0	1.55	NO	30.23	1.000	1.31e5	1.38e6	10.7	7.0	0.955	bb
4	200528R2_4	200	1.54	NO	30.23	1.000	2.94e6	1.63e6	203	1.4	0.905	bb
5	200528R2_5	1500	1.54	NO	30.23	1.000	2.38e7	1.75e6	1520	1.3	0.904	bb
6	200528R2_6	50.0	1.57	NO	30.25	1.000	5.72e5	1.25e6	51.2	2.5	0.915	bb

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

Response Factor: 0.934777 RRF SD: 0.0507076, Relative SD: 5.42456 Response type: Internal Std ( Ref 27 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.56	NO	31.19	1.000	1.48e4	1.42e6	1.12	-10.8	0.834	bb
2	200528R2_2	2.50	1.55	NO	31.21	1.000	3.19e4	1.35e6	2.52	0.8	0.943	bd

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

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

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

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

Compound name: 1,2,3,4,7,8-HxCDF Response Factor: 0.884459 RRF SD: 0.0674086, Relative SD: 7.62145 Response type: Internal Std ( Ref 28 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

2 14 1	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	1.25	1.25	NO	33.99	1.001	8.98e3	9.42e5	1.08	-13.8	0.762	bd
2	200528R2_2	2.50	1.19	NO	33.99	1.000	1.81e4	8.49e5	2.41	-3.7	0.852	bđ
3	200528R2_3	10.0	1.22	NO	34.01	1.001	7.91e4	8.47e5	10.6	5.6	0.934	bd
4	200528R2_4	200	1.18	NO	33.99	1.000	1.87e6	1.02e6	208	3.9	0.919	bđ
5	200528R2_5	1500	1.19	NO	34.01	1.000	1.61e7	1.15e6	1590	5.8	0.936	bđ
6	200528R2_6	50.0	1.21	NO	34.01	1.000	3.56e5	7.87e5	51.1	2.2	0.904	bd

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

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

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Compound name: 2,3,4,6,7,8-HxCDF Response Factor: 0.934102 RRF SD: 0.0631666, Relative SD: 6.76228 Response type: Internal Std ( Ref 30 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

.

## Compound name: 1,2,3,7,8,9-HxCDF Response Factor: 0.870707

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

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

## Compound name: 1,2,3,4,6,7,8-HpCDF Response Factor: 0.873391

Work Order 2000947

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

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

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

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

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

Compound name: 1,2,3,4,7,8,9-HpCDF Response Factor: 1.01285 RRF SD: 0.106215, Relative SD: 10.4867 Response type: Internal Std ( Ref 33 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

#### Compound name: OCDF Response Factor: 0.806476 RRF SD: 0.0306481, Relative SD: 3.80025 Response type: Internal Std ( Ref 34 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

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Compound name: 13C-2,3,7,8-TCDD Response Factor: 1.15633 RRF SD: 0.0999567, Relative SD: 8.64433 Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

Compound name: 13C-1,2,3,7,8-PeCDD Response Factor: 0.848975 RRF SD: 0.0899186, Relative SD: 10.5914 Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

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

Response Factor: 0.778953 RRF SD: 0.096377, Relative SD: 12.3726 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

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

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

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

Compound name: 13C-1,2,3,6,7,8-HxCDD Response Factor: 1.01669 RRF SD: 0.116266, Relative SD: 11.4358 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1221	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	1.27	NO	34.95	1.017	9.27e5	8.40e5	108	8.5	1.10	db
2	200528R2_2	100	1.27	NO	34.96	1.017	8.61e5	9.66e5	87.7	-12.3	0.891	db
3	200528R2_3	100	1.26	NO	34.97	1.017	8.39e5	9.75e5	84.7	-15.3	0.861	db
4	200528R2_4	100	1.25	NO	34.96	1.017	1.03e6	9.81e5	104	3.5	1.05	db
5	200528R2_5	100	1.27	NO	34.97	1.017	1.17e6	1.01e6	113	13.4	1.15	db
6	200528R2_6	100	1.23	NO	34.97	1.017	8.15e5	7.84e5	102	2.3	1.04	db

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

Response Factor: 0.902653 RRF SD: 0.11238, Relative SD: 12.45 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

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

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

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

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

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

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

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

-

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

#### Compound name: 13C-1,2,3,7,8-PeCDF Response Factor: 0.837982 RRF SD: 0.0870192, Relative SD: 10.3844 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

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

Response Factor: 0.816557 RRF SD: 0.0702322, Relative SD: 8.60101 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

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Compound name: 13C-1,2,3,4,7,8-HxCDF Response Factor: 1.00752 RRF SD: 0.115021, Relative SD: 11.4162 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

Compound name: 13C-1,2,3,6,7,8-HxCDF Response Factor: 1.16702 RRF SD: 0.127304, Relative SD: 10.9085 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

#### Compound name: 13C-2,3,4,6,7,8-HxCDF Response Factor: 1.02186 RRF SD: 0.110658, Relative SD: 10.829 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

1000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	34.68	1.009	9.22e5	8.40e5	107	7.4	1.10	bb
2	200528R2_2	100	0.50	NO	34.69	1.009	8.66e5	9.66e5	87.7	-12.3	0.896	bb

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

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

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

27.00	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.51	NO	35.59	1.036	7.73e5	8.40e5	107	7.0	0.919	MM
2	200528R2_2	100	0.50	NO	35.61	1.036	7.04e5	9.66e5	84.8	-15.2	0.729	MM
3	200528R2_3	100	0.50	NO	35.61	1.036	7.27e5	9.75e5	86.8	-13.2	0.746	MM
4	200528R2_4	100	0.49	NO	35.60	1.036	8.84e5	9.81e5	105	4.9	0.902	bb
5	200528R2_5	100	0.51	NO	35.62	1.036	1.02e6	1.01e6	117	17.3	1.01	bb
6	200528R2_6	100	0.51	NO	35.6 <b>3</b>	1.036	6.70e5	7.84e5	99.3	-0.7	0.854	bd

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

Response Factor: 0.774499 RRF SD: 0.102271, Relative SD: 13.2048 Response type: Internal Std ( Ref 38 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

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

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

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

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

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

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

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

11000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	200	0.87	NO	41.94	1.220	1.35e6	8.40e5	215	7.6	0.803	bb
2	200528R2_2	200	0.83	NO	41.95	1.220	1.22e6	9.66e5	169	-15.4	0.631	bb
3	200528R2_3	200	0.90	NO	41.96	1.220	1.18e6	9.75e5	162	-18.8	0.605	bd
4	200528R2_4	200	0.88	NO	41.95	1.220	1.57e6	9.81e5	215	7.3	0.800	MM
5	200528R2_5	200	0.88	NO	41.97	1.220	1.92e6	1.01e6	254	27.2	0.949	bb
6	200528R2_6	200	0.90	NO	41.96	1.220	1.08e6	7.84e5	184	-7.9	0.687	MM

#### Compound name: 37CI-2,3,7,8-TCDD Response Factor: 1.03685 RRF SD: 0.126311, Relative SD: 12.1822 Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

100	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	0.250			26.57	1.027	2.71e3	1.11e6	0.235	-5.9	0.976	bb
2	200528R2_2	0.500			26.56	1.025	5.67e3	1.24e6	0.440	-11.9	0.913	bb

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

Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CRV.qld
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#### Compound name: 37CI-2,3,7,8-TCDD

1000	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200528R2_3	2.00			26.57	1.026	2.30e4	1.26e6	1.76	-12.0	0.912	bd
4	200528R2_4	40.0			26.56	1.025	5.78e5	1.26e6	44.1	10.2	1.14	bb
5	200528R2_5	200			26.57	1.025	3.03e6	1.24e6	235	17.7	1.22	bb
6	200528R2_6	10.0			26.59	1.026	1.05e5	9.95e5	10.2	2.1	1.06	bb

Compound name: 13C-1,2,3,4-TCDD **Response Factor: 1** RRF SD: 0, Relative SD: 0 Response type: Internal Std ( Ref 36 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.80	NO	25.89	1.000	1.11e6	1.11e6	100	0.0	1.00	bb
2	200528R2_2	100	0.81	NO	25.90	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
3	200528R2_3	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
4	200528R2_4	100	0.80	NO	25.90	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
5	200528R2_5	100	0.80	NO	25.92	1.000	1.24e6	1.24e6	100	0.0	1.00	bb
6	200528R2_6	100	0.80	NO	25.92	1.000	9.95e5	9.95e5	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF Response Factor: 1 RRF SD: 0, Relative SD: 0 Response type: Internal Std ( Ref 37 ), Area \* ( IS Conc. / IS Area ) Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.78	NO	24.22	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	200528R2_2	100	0.78	NO	24.22	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
3	200528R2_3	100	0.78	NO	24.22	1.000	1.89e6	1.89e6	100	0.0	1.00	bb
4	200528R2_4	100	0.79	NO	24.22	1.000	1.91e6	1.91e6	100	0.0	1.00	bb
5	200528R2_5	100	0.79	NO	24.24	1.000	1.85e6	1.85e6	100	0.0	1.00	bb
6	200528R2_6	100	0.77	NO	24.24	1.000	1.49e6	1.49e6	100	0.0	1.00	bb

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

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

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

1.2.2	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200528R2_1	100	0.50	NO	34.37	1.000	8.40e5	8.40e5	100	0.0	1.00	bb
2	200528R2_2	100	0.51	NO	34.38	1.000	9.66e5	9.66e5	100	0.0	1.00	bb
3	200528R2_3	100	0.51	NO	34.39	1.000	9.75e5	9.75e5	100	0.0	1.00	bb
4	200528R2_4	100	0.51	NO	34.38	1.000	9.81e5	9.81e5	100	0.0	1.00	bb
5	200528R2_5	100	0.51	NO	34.39	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
6	200528R2_6	100	0.50	NO	34.39	1.000	7.84e5	7.84e5	100	0.0	1.00	bb

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

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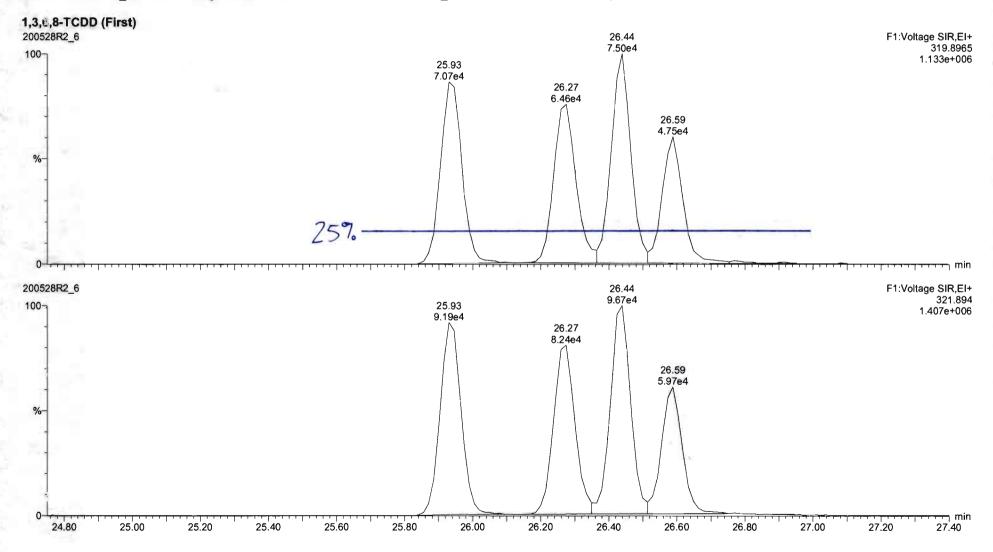
#### Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

Quantify Sam Vista Analytica	aple Report MassLynx 4.1 SCN815 al Laboratory VG-11	Page 1 of 1
Dataset:	U:\VG12.PRO\Results\200528R2\200528R2-CPSM.qld	
Last Altered: Printed:	Thursday, May 28, 2020 16:40:33 Pacific Daylight Time Thursday, May 28, 2020 16:57:10 Pacific Daylight Time	GRB 05/29/2020

#### Method: U:\VG12.PRO\MethDB\CPSM.mdb 26 May 2020 10:39:11 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200528R2\_6, Date: 28-May-2020, Time: 15:50:32, ID: ST200528R2\_6 1613 CS3 19L2305, Description: 1613 CS3 19L2305



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

#### Dataset: Untitled

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

#### Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

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

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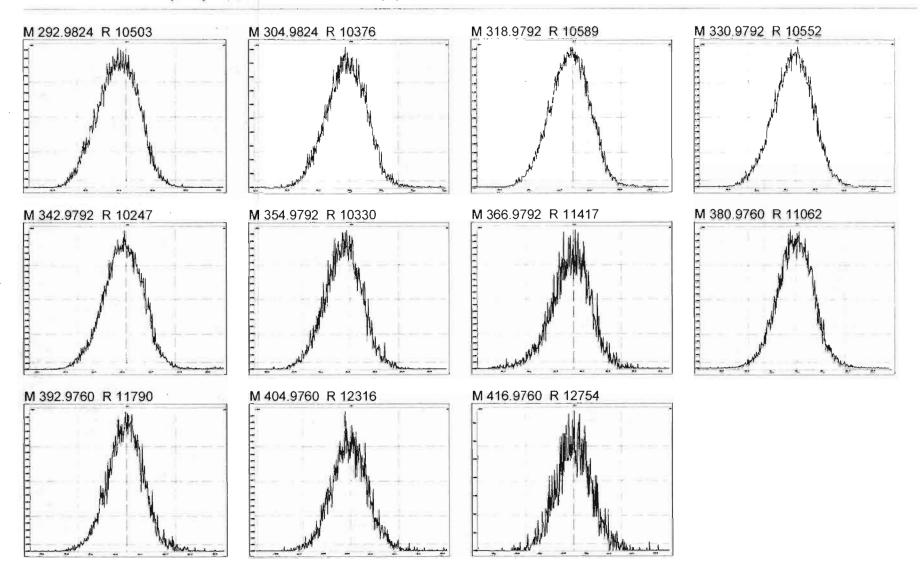
#### **Experiment Calibration Report**

#### MassLynx 4.1 SCN815

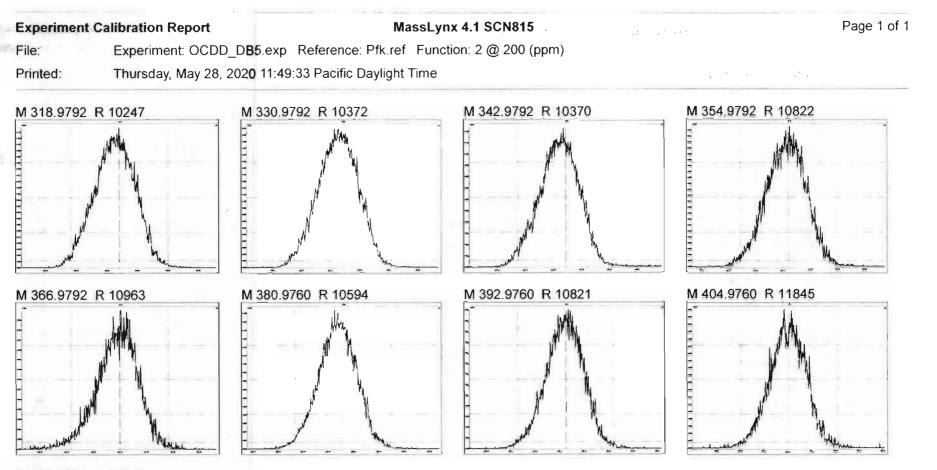
Page 1 of 1

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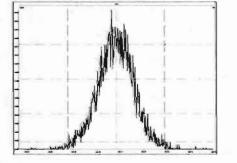
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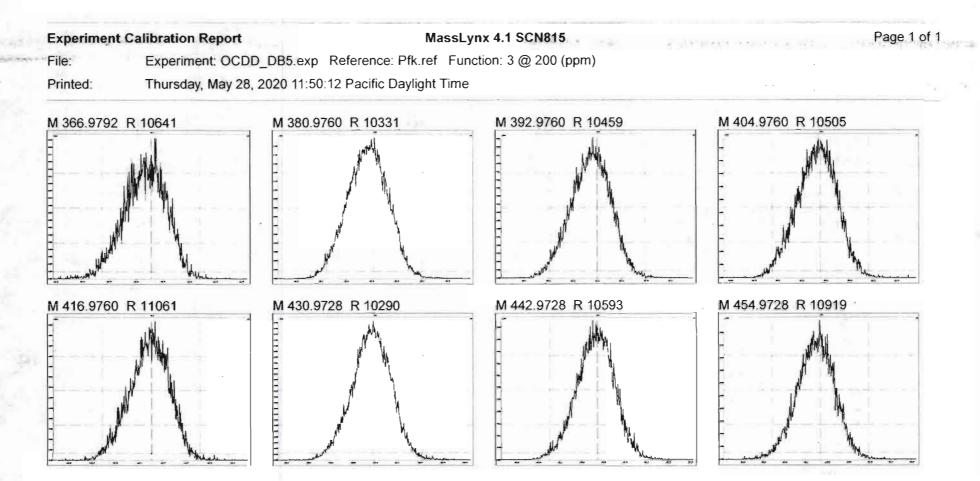


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#### M 416.9760 R 12018





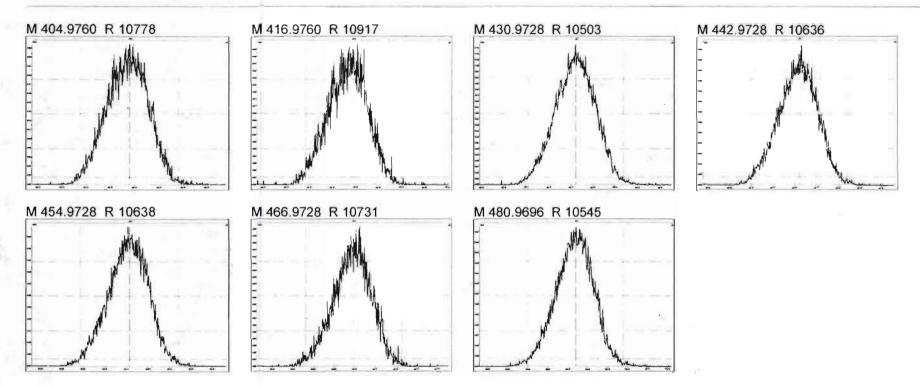
#### **Experiment Calibration Report**

#### MassLynx 4.1 SCN815

Page 1 of 1

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



#### **Experiment Calibration Report**

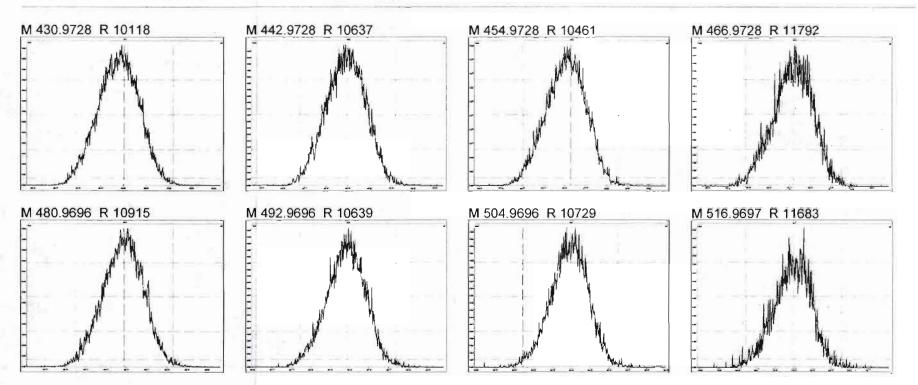
#### MassLynx 4.1 SCN815

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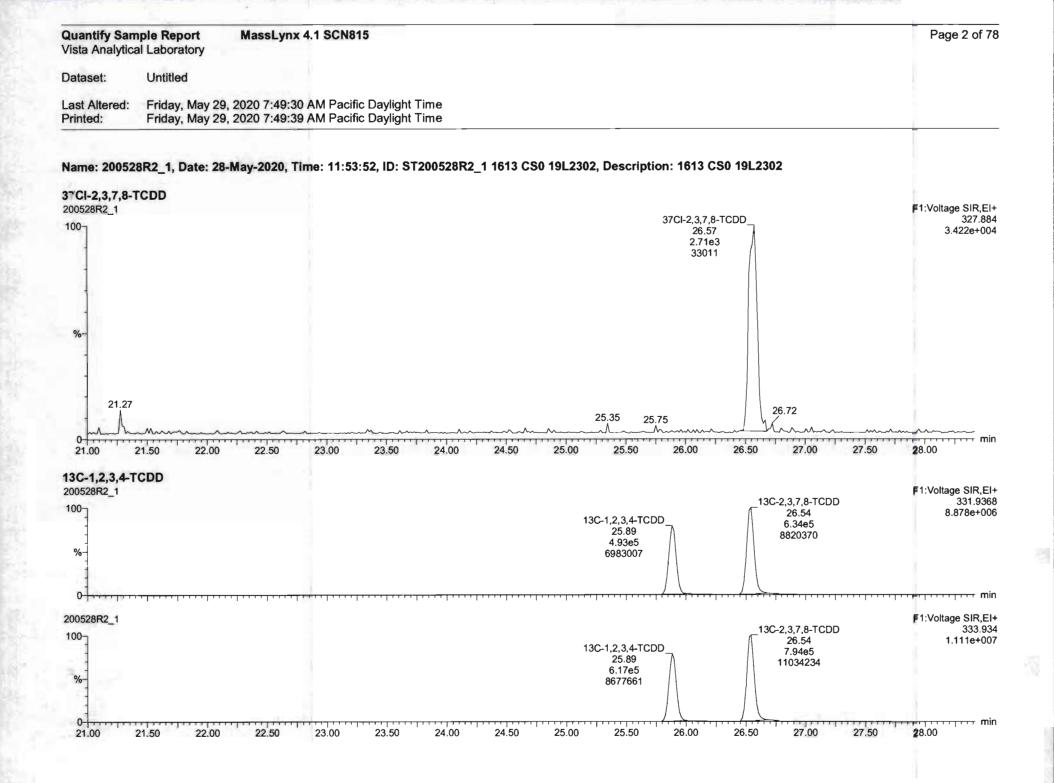
Printed:

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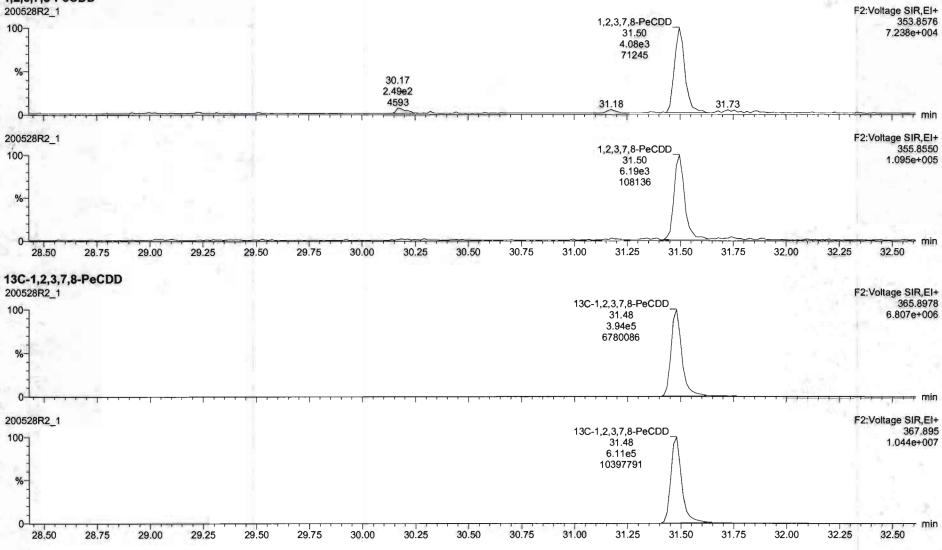
Thursday, May 28, 2020 11:51:45 Pacific Daylight Time



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

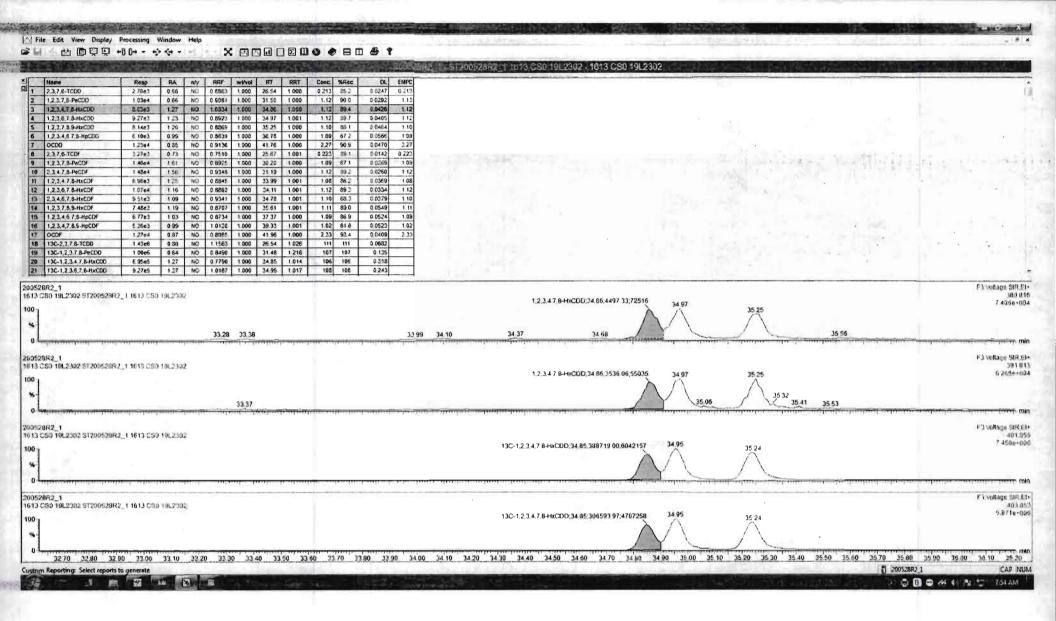


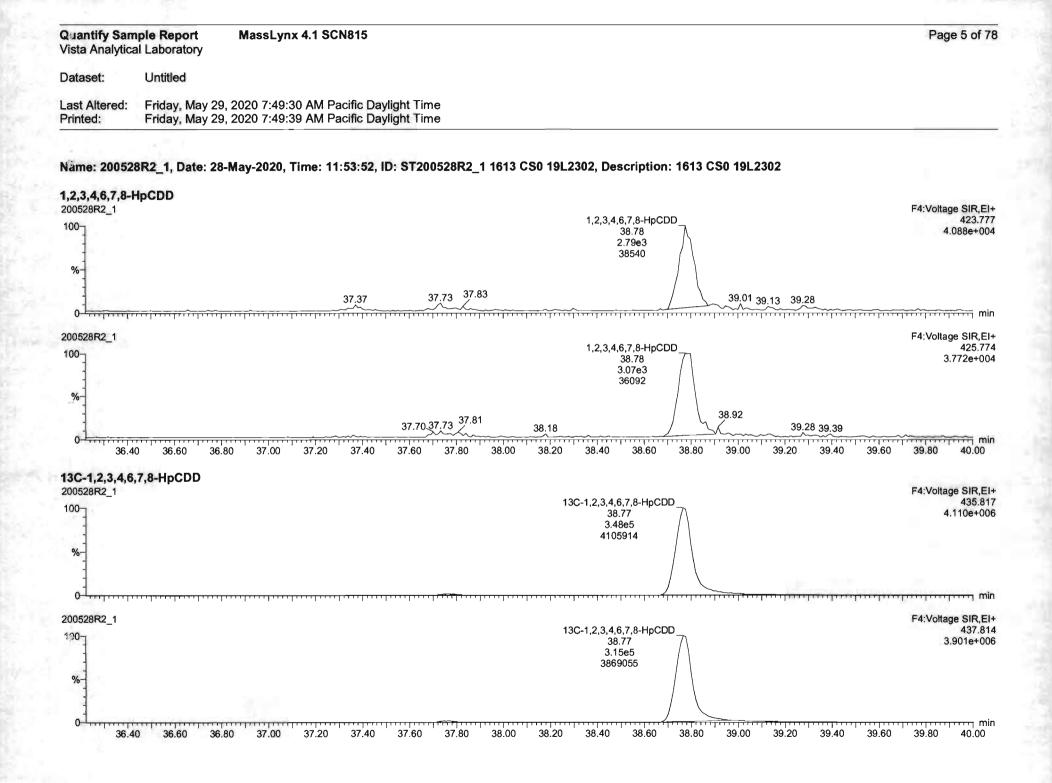
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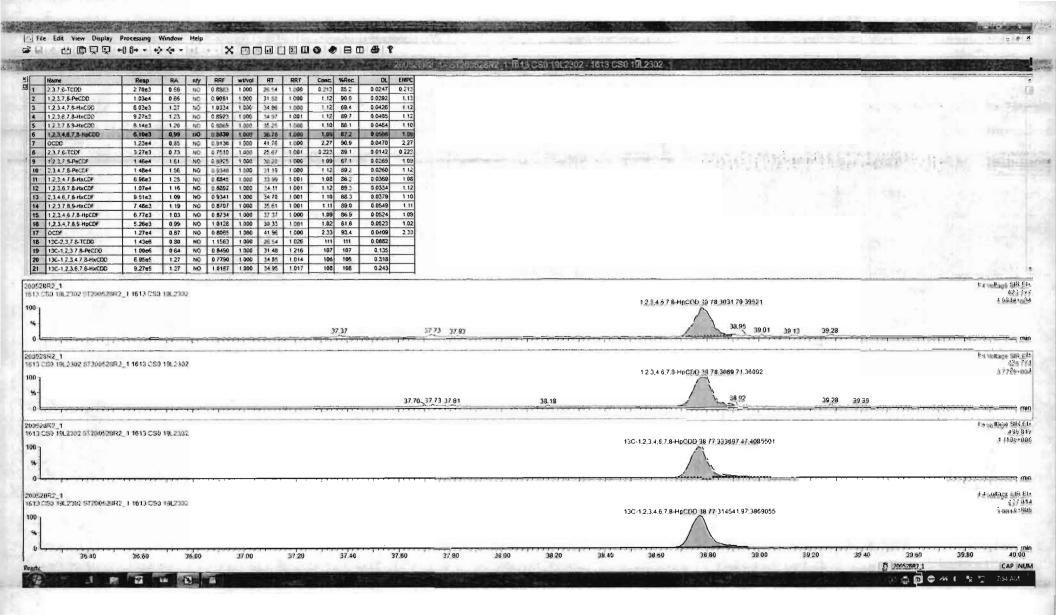


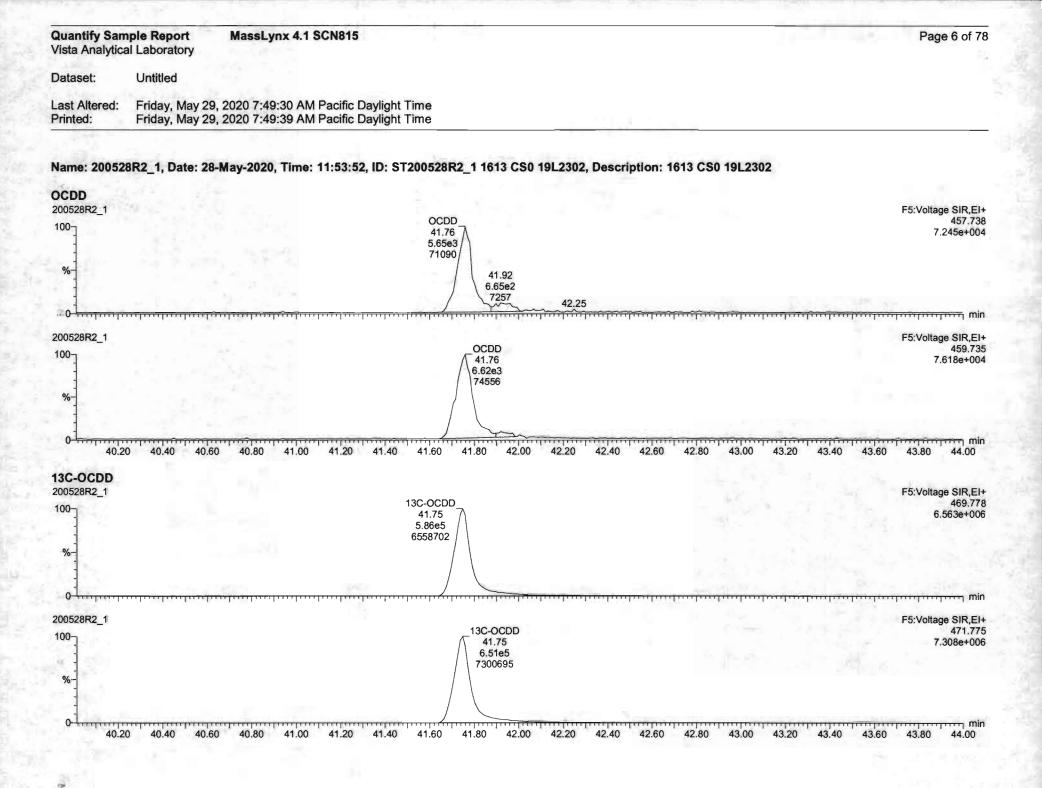
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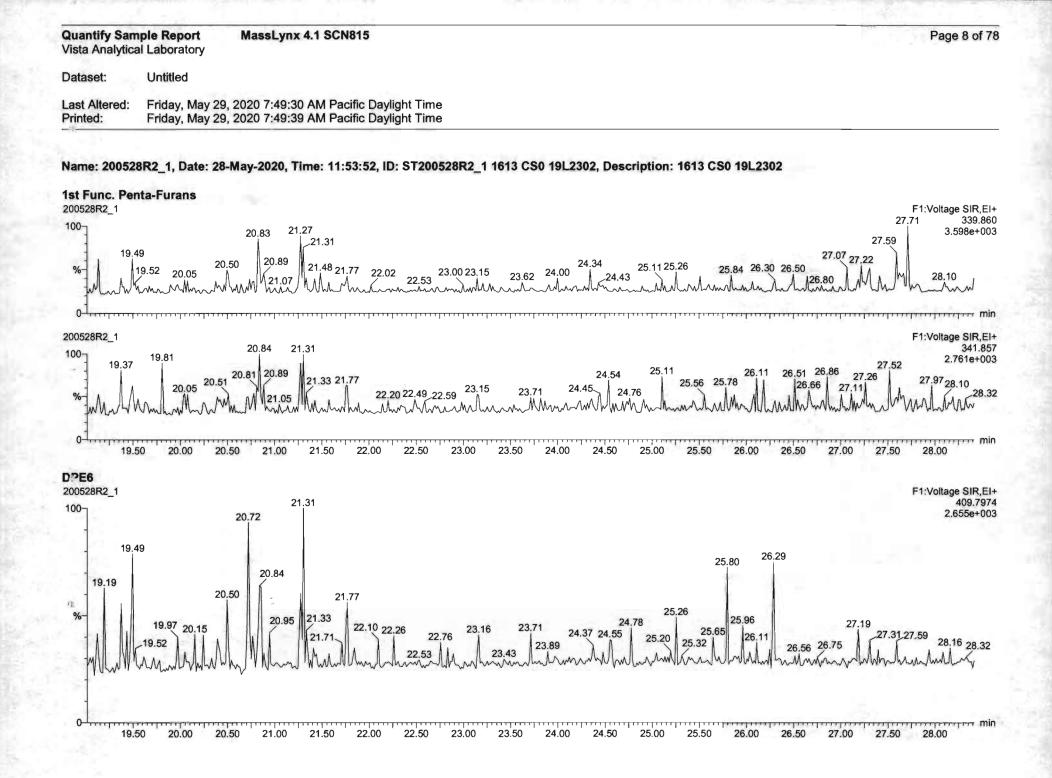
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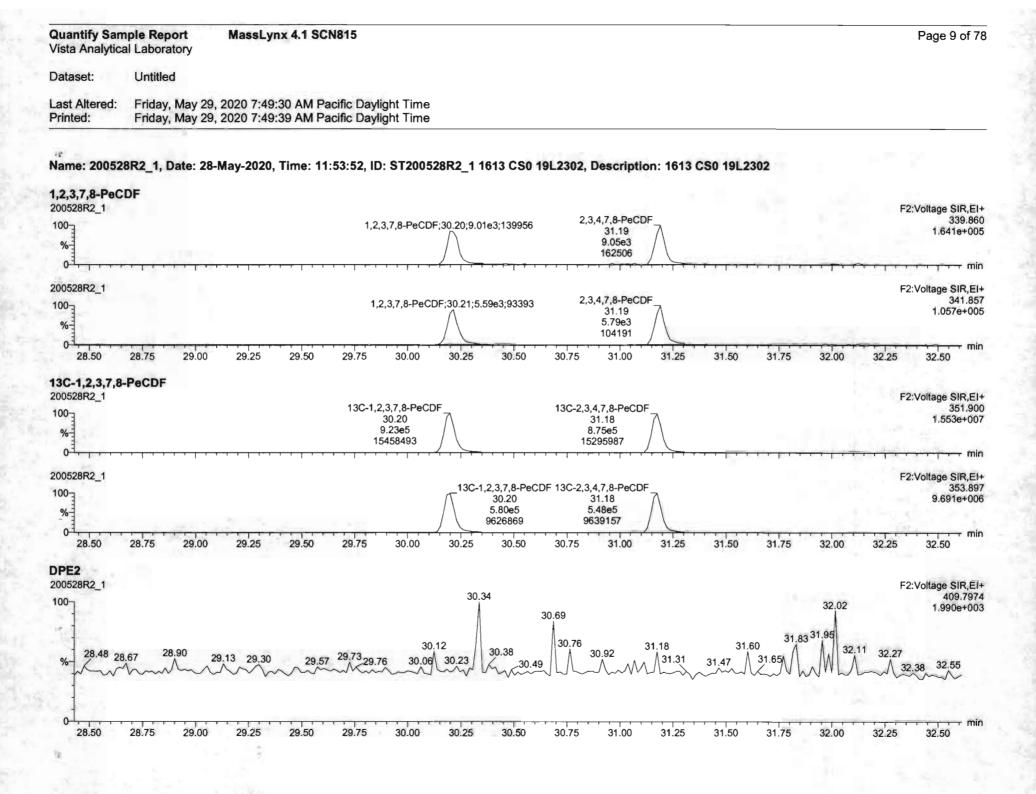
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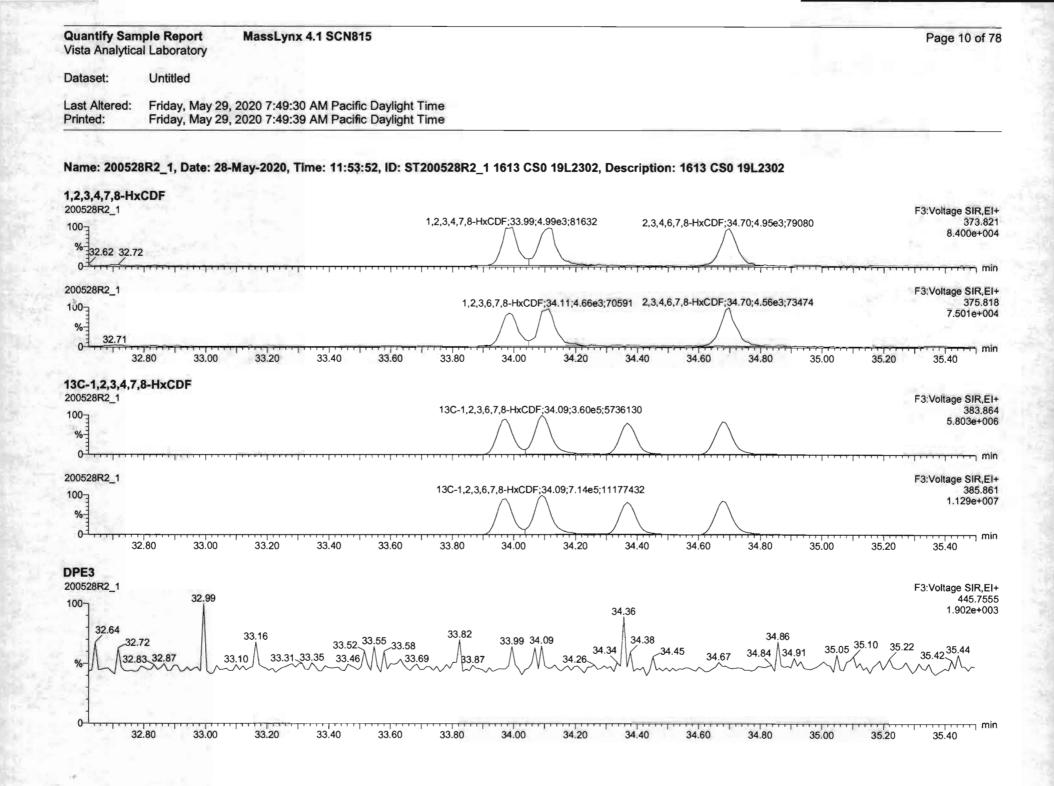
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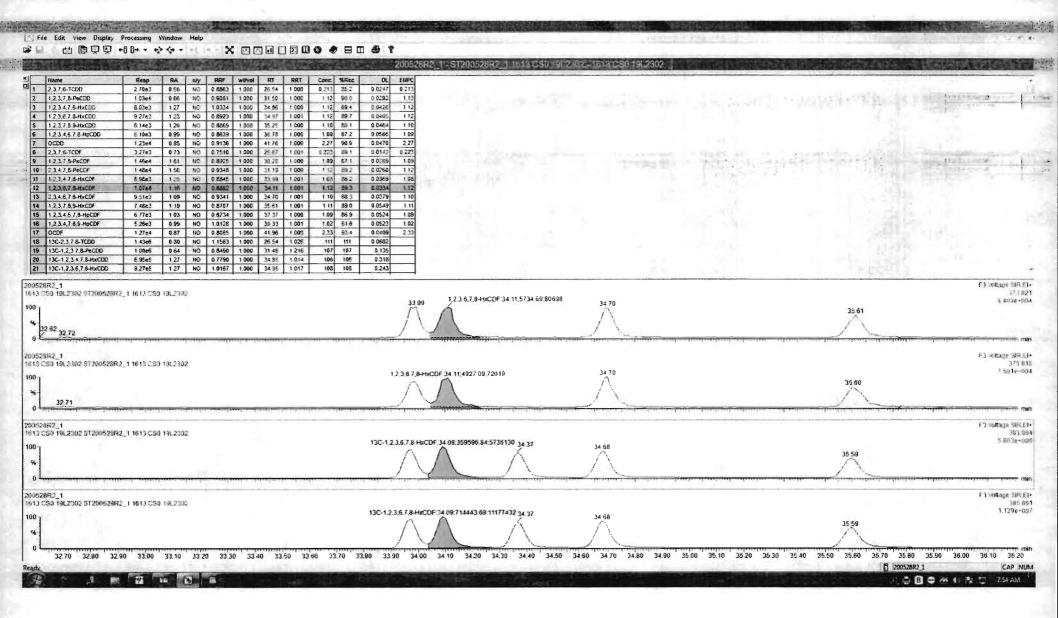


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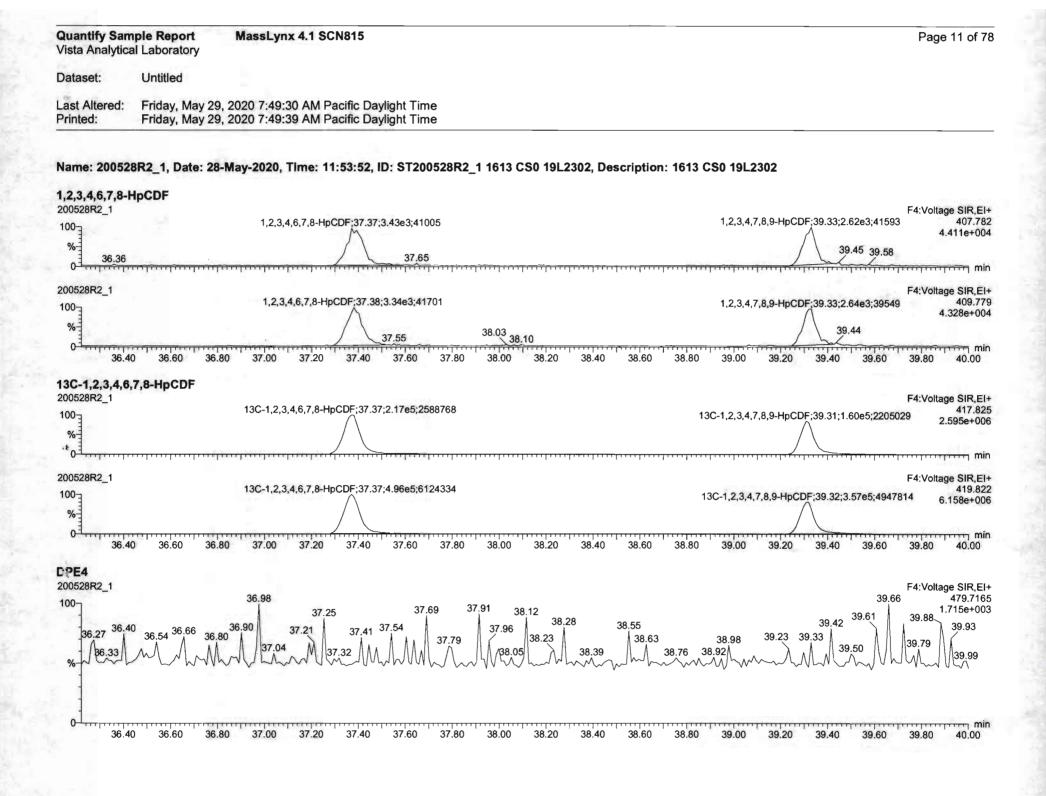


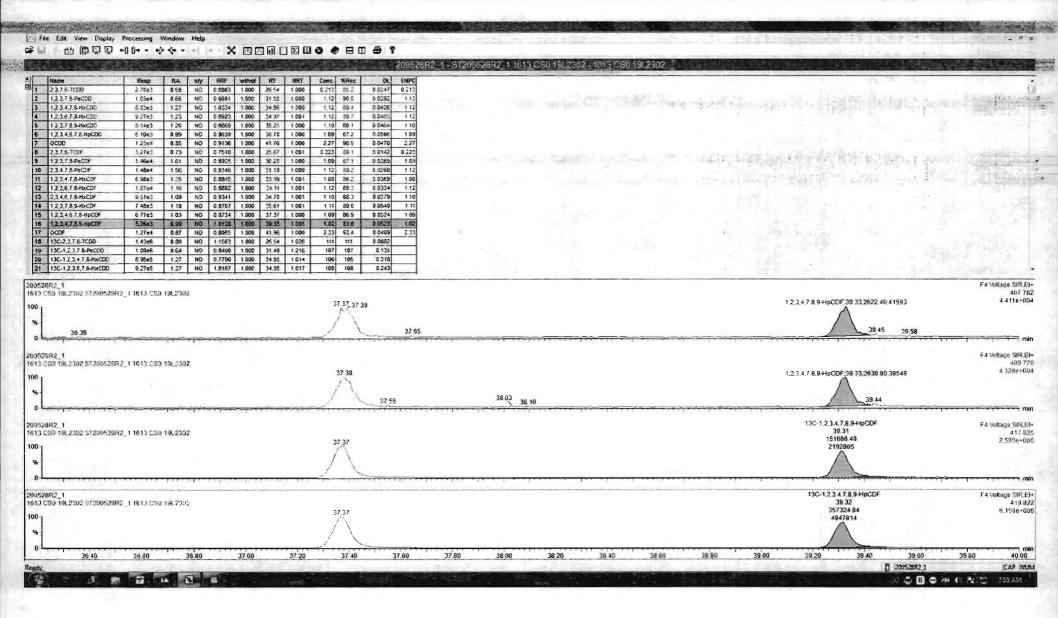


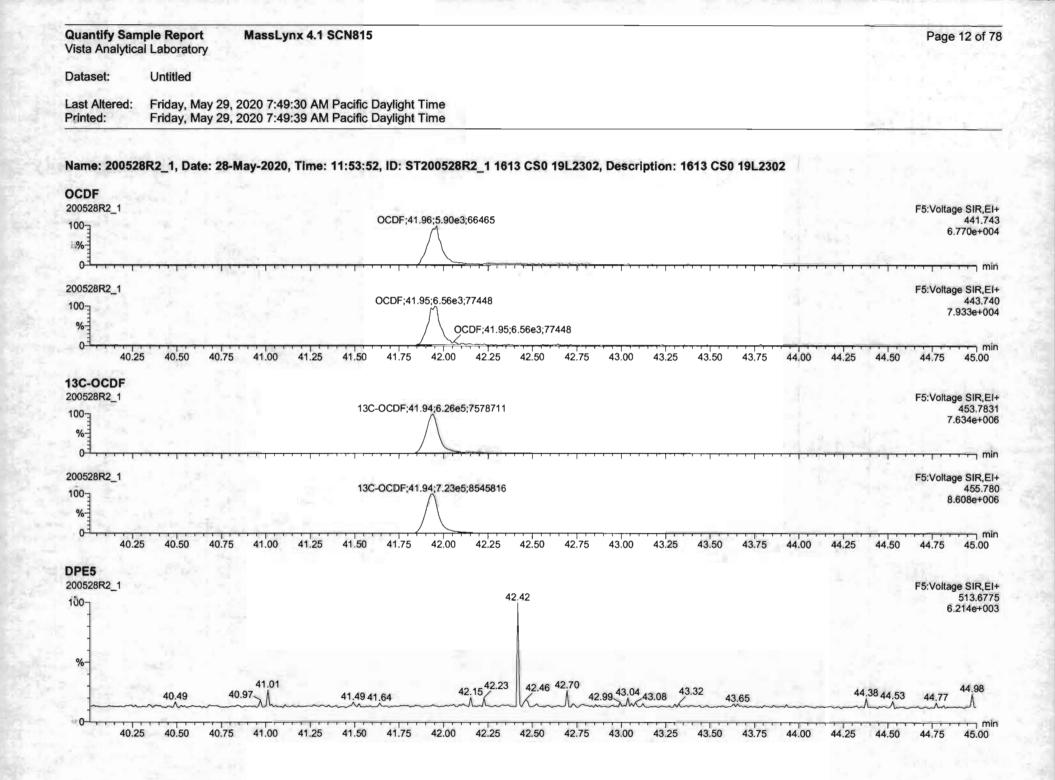
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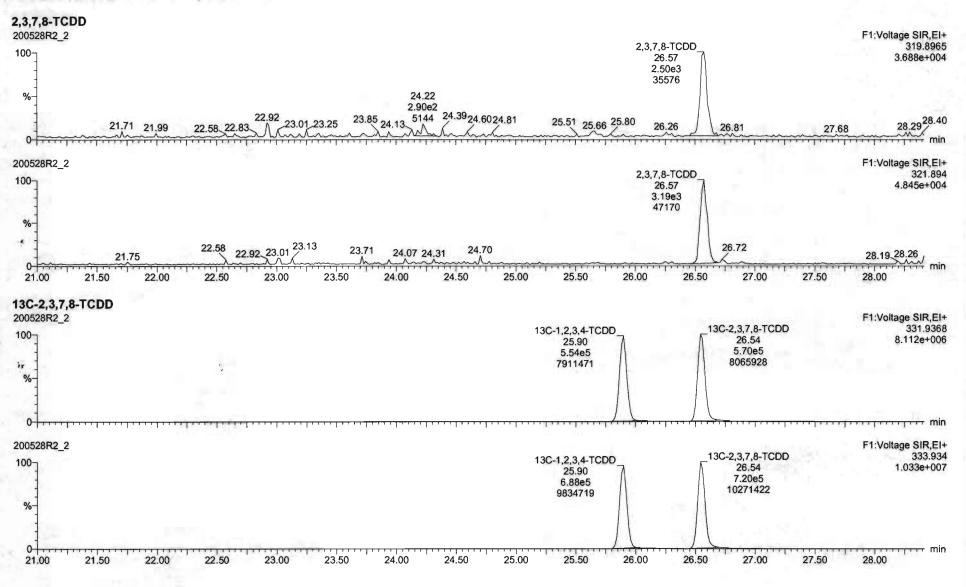
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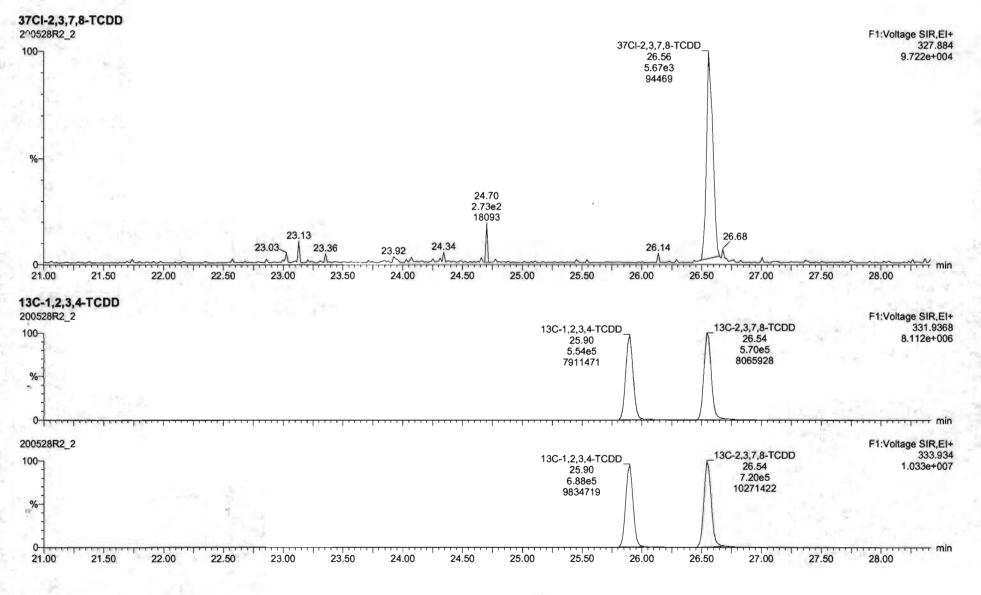
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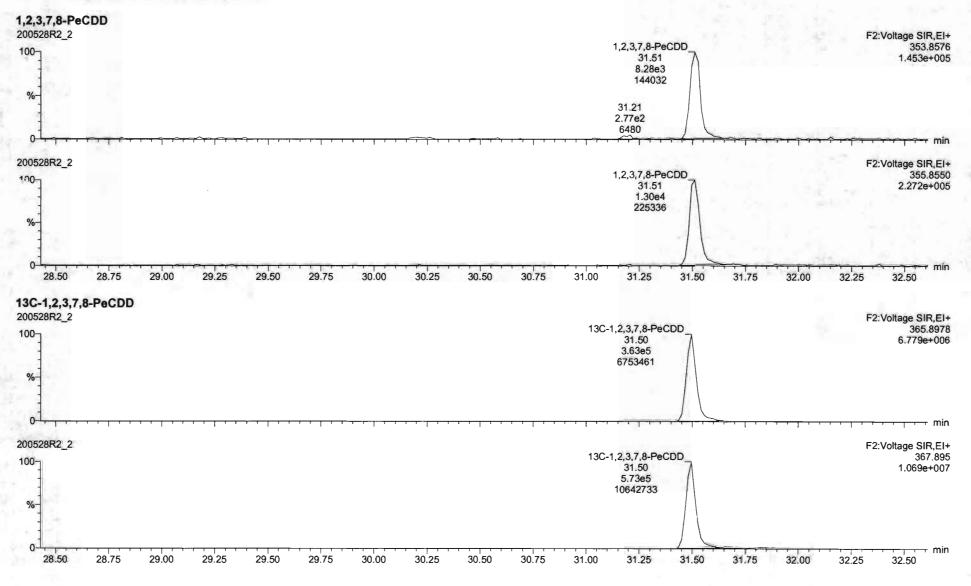


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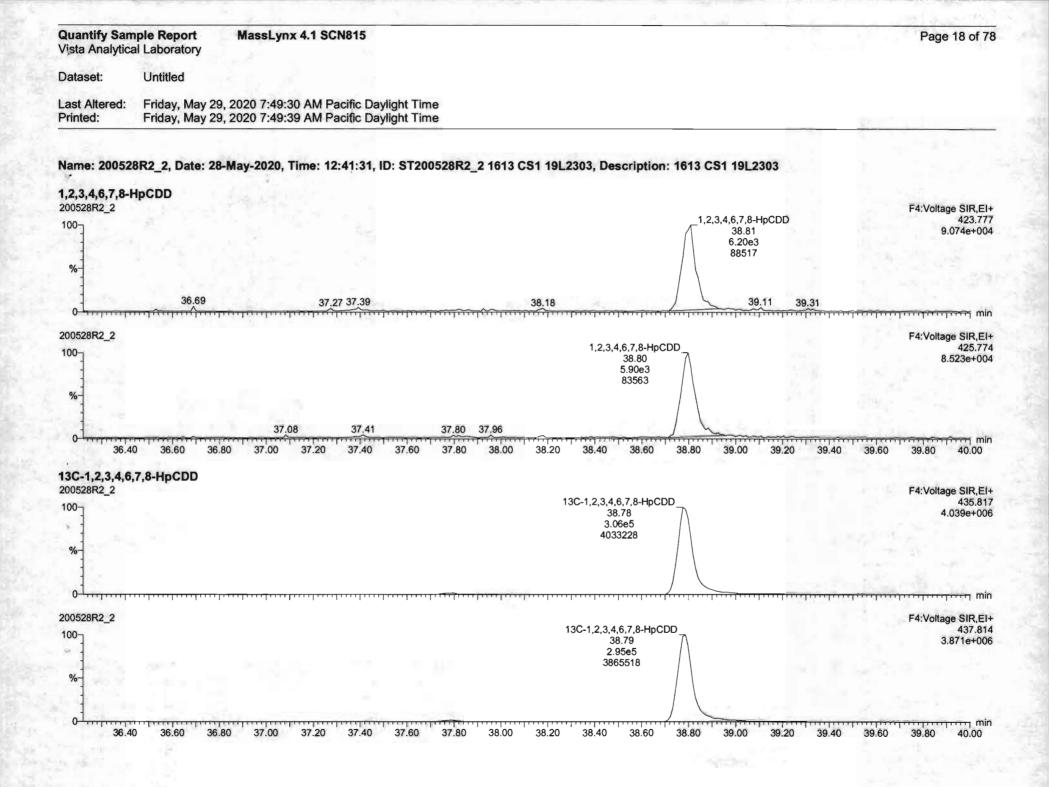
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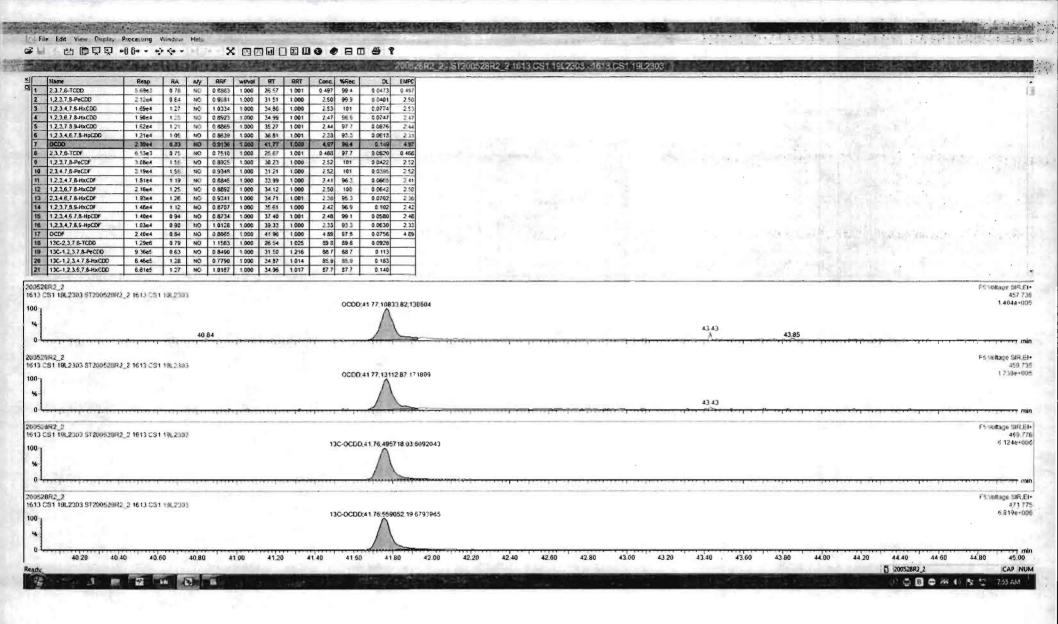
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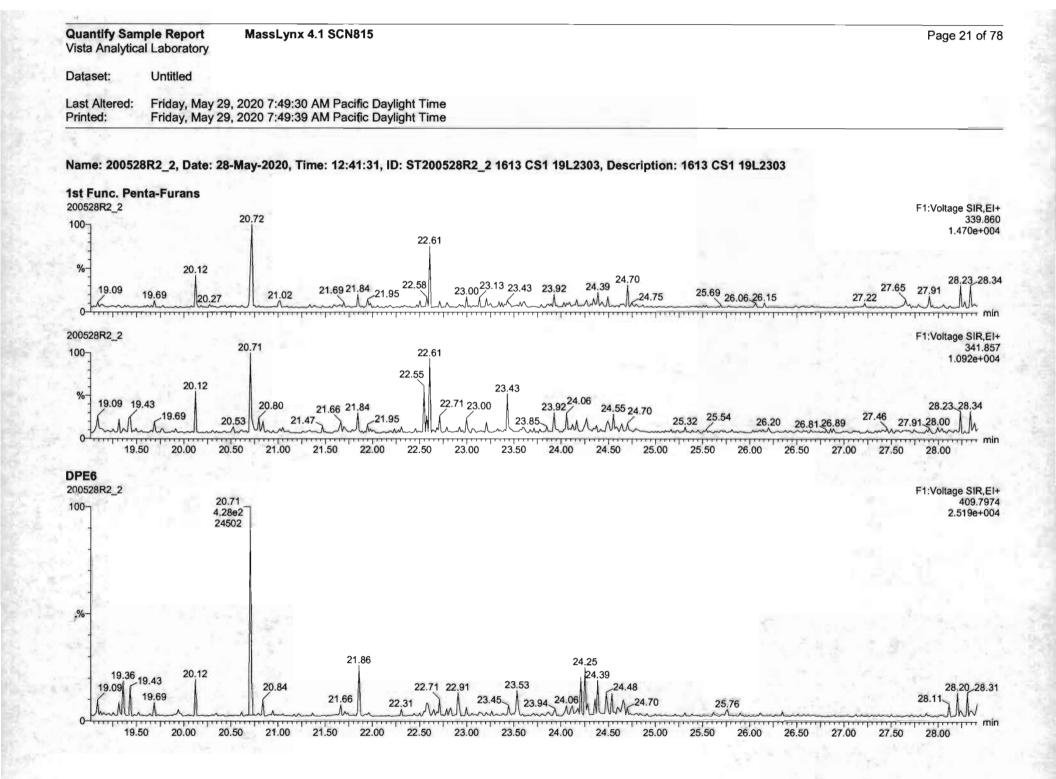
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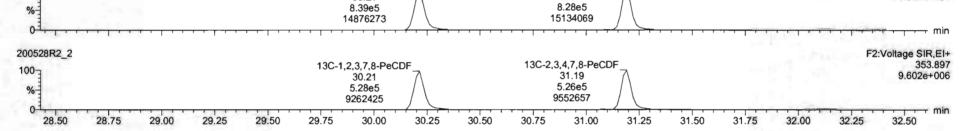
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3,7,8-TCDF 00528R2_2														F1:Voltage SIR,E
00520R2_2		_Tota	Tetra-Furans	Total	I Tetra-Furans 22.58				2,3,7,8-TCDF_ 25.68	N N				303.90 4.128e+0
% 19.37 19.45	19.96 20.14		20.72 6.92e2		2.99e2 14512	23.4623.73	23.94 2	4.3924.66	2.80e3 40141	07.00				
0-119.37 19.45	minninhim	<del>m Arin</del>	37223	<del>بىلىدىڭىرىيا</del> ،	22.94	·····	23.94 2	A. 3924.00	1000 1000 1000	\25.90 	<del>11111111111</del>	<del> </del>	<del>766667</del>	28.22_28.32
00528R2_2	То	tal Tetra-Fura 20.72	ans						2,3,7,8-TCDF_					F1:Voltage SIR,E 305.8
00		4.95e2 24591	т	otal Tetra-Fur	ans;22.58;4.55	e2;30244			25.68 3.73e3					5.412e+0
3 13.22 /	.45 19.91 20.3	1	0.86	21,96	22.94	4 23.62	23.83 24.21	24.66	52790	25.85			27.50	28.32
0 hannan 19.5	0 20.00 2	20.50 21.	.00 21.50	22.00	22.50 23.0	00 23.50	24.00		25.00 25.50	26.00	26.50	27.00	27.50	28.00
C-2,3,7,8-TO	DF													
0528R2_2				1;	3C-1,2,3,4-TC	OF;24.22;8.00e	5;9677724	130	-2,3,7,8-TCDF_					F1:Voltage SIR, 315.94
E							λ		25.66 7.77e5					1.069e+0
%							/		10602018				_	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
0528R2_2	artitul (11)	נייייוינייויי		1					.1	,1,1,1,1,1,1,1,1	linitiii	1	hindra	F1:Voltage SIR,E
00520R2_2				130	C-1,2,3,4-TCDI	F;24.22;1.03e6;	12290426	13C	-2,3,7,8-TCDF					317.9
%-							$\wedge$		25.66 1.00e6					1.395e+0
olum					allantard		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		13851370	1			111111111	n u
	0 20.00 2	20.50 21.	.00 21.50	22.00	22.50 23.0	00 23.50	24.00	24.50 2	25.00 25.50	26.00	26.50	27.00	27.50	28.00
19.5														F1:Voltage SIR,E
19.50 PE1														375.83 2.898e+0
19.50 <b>PE1</b> 0528R2_2		0.71												2.0900+0
19.50 PE1 0528R2_2	5.	0.71 13e2 8142												
19.50 <b>PE1</b> 0528R2_2	5.	13e2												
19.5	5.	13e2												
19.5 <b>PE1</b> 0528R2_2 0 - - - - - - - - - - - - -	5. 28	13e2												
19.5 <b>PE1</b> 0528R2_2 0 - - - - - - - - - - - - -	5.	13e2	84 21,29 21.6	36 <sup>21.86</sup>	22.5822.71	23,21 23,55	24.2	5 24.48	70		26.45			28.11 28.20 28.



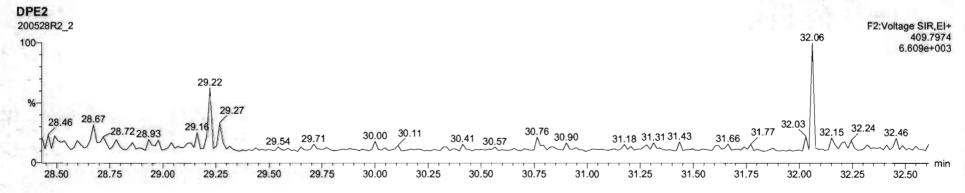
Quantify Sam Vista Analytica		Page 22 of 78
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ame: 20052	R2_2, Date: 28-May-2020, Time: 12:41:31, ID: ST200528R2_2 1613 CS1 19L2303, Description: 1613 CS1 19I	_2303
,2,3,7,8-PeC	DF	
<b>1,2,3,7,8-PeC</b> 200528R2_2 100	DF 1,2,3,7,8-PeCDF;30.23;1.87e4;316381 1.94e4 358772	F2:Voltage SIR,EI+ 339.860 3.602e+005



30.50

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0-

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28.50

200528R2\_2

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

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13C-1,2,3,7,8-PeCDF 30.21

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min

351.900

1.524e+007

32.50

F2:Voltage SIR,EI+

32.00

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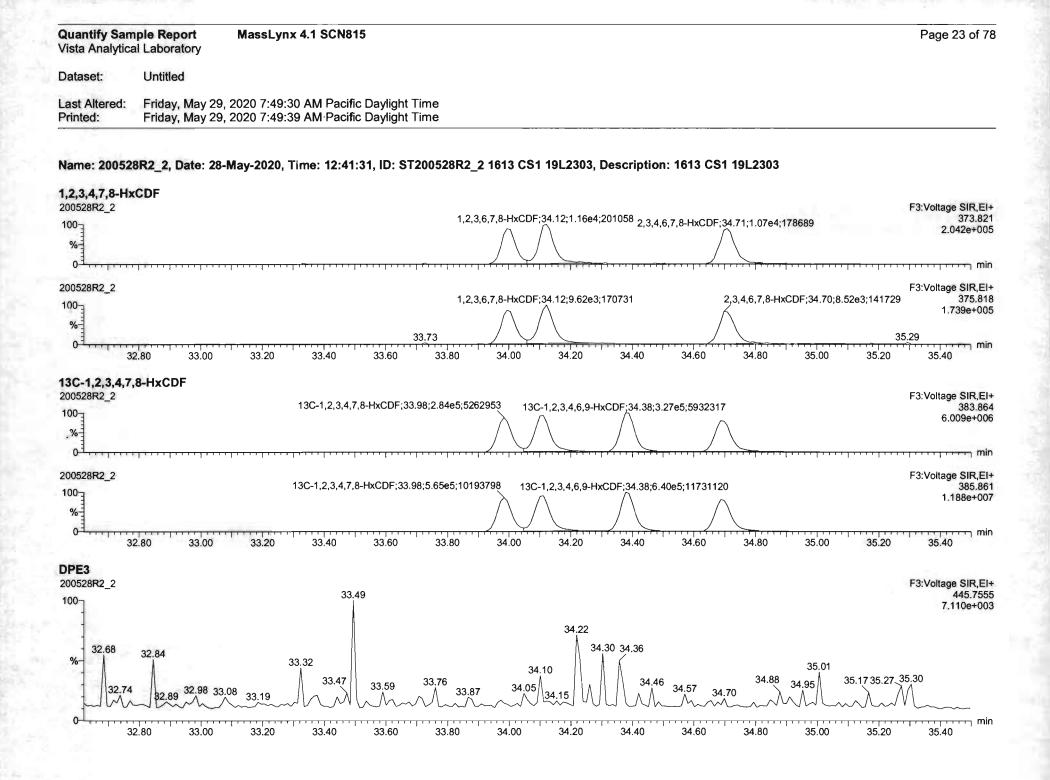
31.75

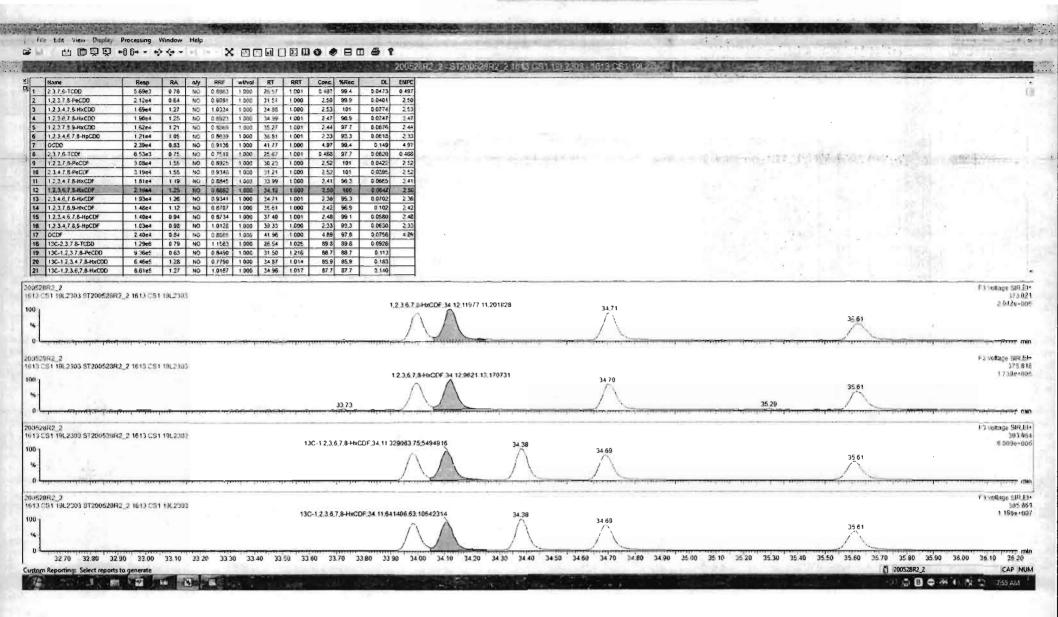
31.50

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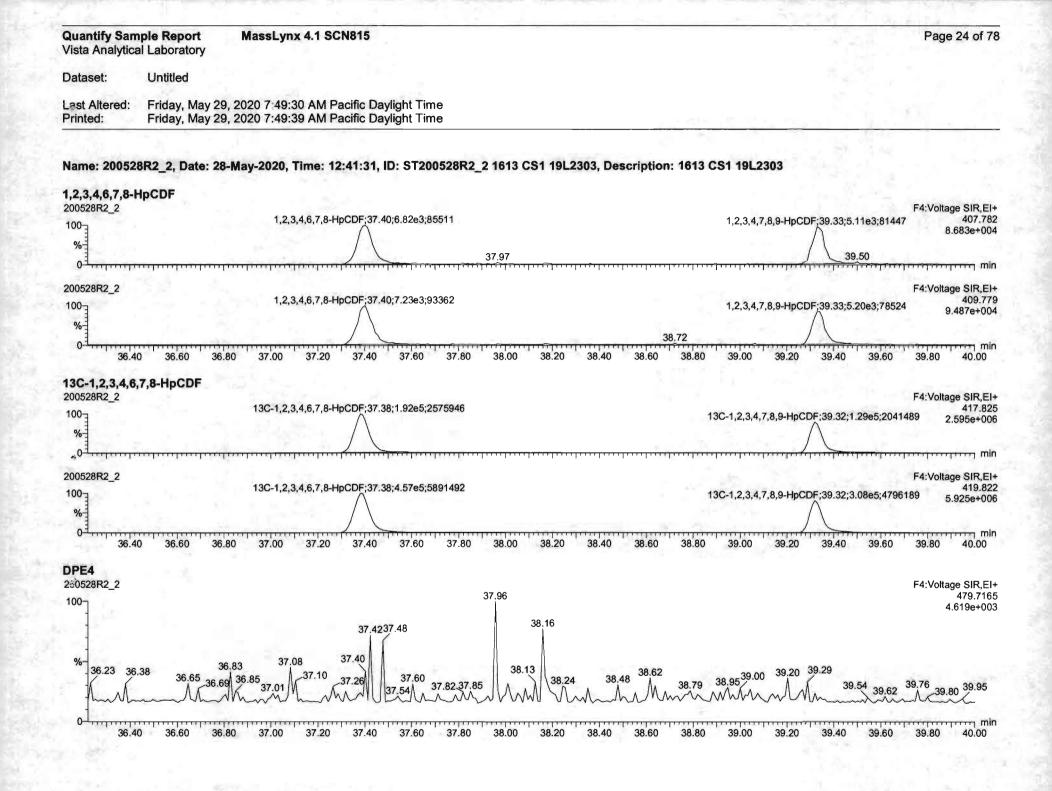
13C-2,3,4,7,8-PeCDF 31.19

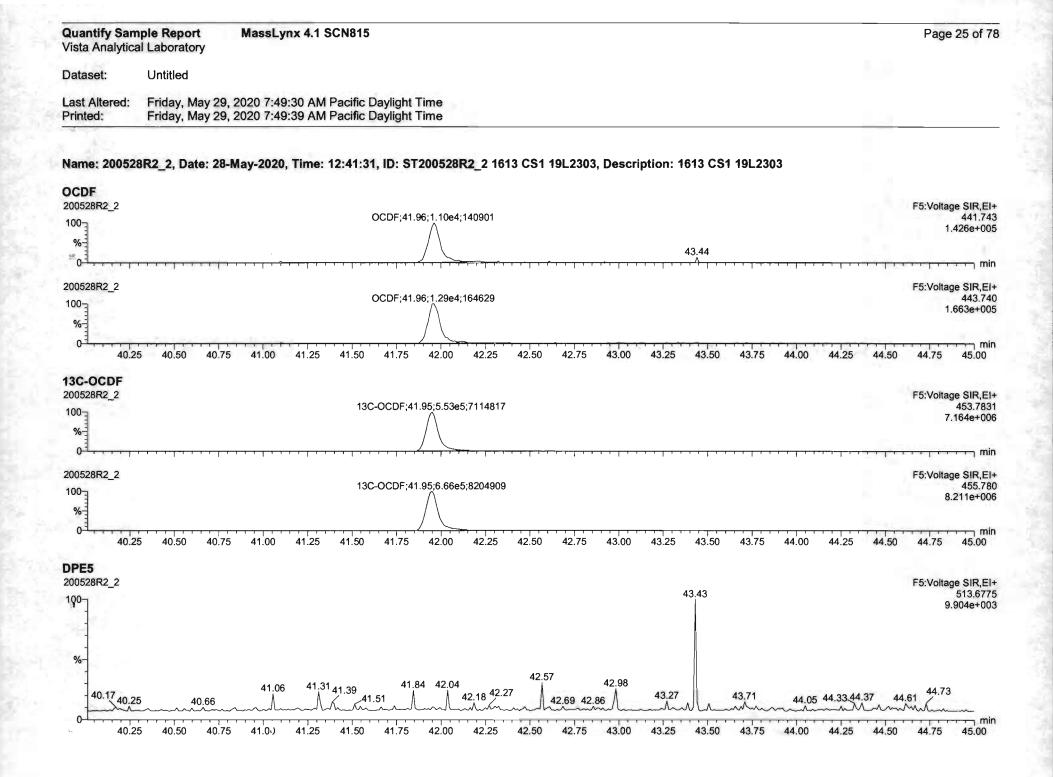




CONTRACTOR OF A REPORT OF A REAL PROPERTY OF

E-16-0606-06-06-05-06-00	出现于1023年4月,并且有1014年1月			200526PZ 2 SI	00528R2_2_1613 CS1_191	2303 - 1613 CS1 19L2303		
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23,7.6-TCOD	569e3 076 NO 08883			0 0473 0 497				
1,2.3.7,8-PeCDD	2.12e4 0.84 NO 0.9081			0 0401 2 50				
1.2.3.4.7.8-HxCDC	1 65e4 1.27 NO 1.0334			0.0774 2.53				
1 2.3 6 7 3-HxCDO	190e4 125 NO 0.8923			0.0747 2.47				
1 2.3.7 8 9-HxCDO	1 52e4 1 21 NO 0 8865			0 0876 2 44				
1.2.3.4.6.7 S-HpCDD	1 21e4 1.05 NO 0 5638			0.0613 2.33				
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2.3 7.6-TCDF	6.53e3 0.75 NO 0.7510			0 ()620 0 458			1. 1. 19-18-11、19-19、19-19-18-18-18-18-18-18-18-18-18-18-18-18-18-	AND A LODGE
1.2.3.7.8-PeCDF	3 d8e4 1.55 NO 0 8925			0 0422 2 52			CONTRACTOR DE LE CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTÓRIA DE LA CONTRACTÓRI	CONTRACT REALING
2.3.4 7 8-PecDF	0.15e4 1.55 NO 0.9348			0.0395 2.52				
1 2,3,4.7 8-HxCDF	1 81e4 1 19 NO 0 8845	the second s	the second s	0.0665 2.41				A
1 2.3.6.7 8-HxCDF	2 16e4 1 25 NO 0 8892			0 06-12 2 50				
2.34.6.7 8-HxCDF	1.93e4 1.26 NO 0.9341			0 0702 2 36			the second se	
1,2,3,7,8,9-HtcOf	1.48e4 112 NO 0.8707		2.42 96.9	0 102 2 42			A second s	
1 2.3.4.5 7.8-HpCDF	1 40e4 0 94 NG 0 8734			0 0580 2 48				N
1,2.3,4,7.8.9-HpCDF	1 03e4 0 98 NO 1 0128			0.0630 2.33			the second se	
OCDF	2 40e4 0 64 NO 0 8065			0.0756 4 89			and the second	
13C-2.3 7 8-TCDD	1 29e6 0 79 NO 1 1562			0 0926			· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
13C-1,2,378-PeCDO	9 36ef 0 63 NO 0 8490		88 7 83 7	0.113				
13C-1.2.3.4 7.8-HxCDD 13C-1.2.3.6,7.8-HxCDD	6.46e5 1.28 NO 0.7790 8.61e5 1.27 NO 1.0197	the state of the s	85.9 85.9 87.7 87.7	0 183				
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and the second sec				$1 \times 1$	\			
ليدويا وبالسباب بيسيد وسا		te agine leanger geardean			man to the state of souther state	And the second section of the	ىلىمى مىزىس <u>ا، بىرىنىچا</u> تىيىلە <mark>بىلىسانىيىلىيى</mark> لەت أىسابىيىلەت <sup>ا</sup> تىرىلىرىكى بالەتلەر	and the second s
29R2_2 29R1_9L2303 ST200528R	2_2 1613 CS1 19L2303	ىيى <u>بىر ئىيى بىرى بىرى بەر</u>	ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي ي		and the second	ap <del>elan an fan sen an Innepante</del> raan an	12.3.7.8.9.4uCOF	P 3 Voltage
Lagen Parts (1997) 2882_2 2891 1862 303 ST200528R	2_2 1613 CS1 19L2303	1 <u>919. burger (</u> r. 1110)	مى مەربىياتى مىسى مىرىيە ئىيىلىيە مىسى	33.99 34.12	2	34.70	1 2 3 7 8 9 HzCOF 35 51 598 8 7	
CS1 19L2303 ST200528R	2_2 1613 CS1 19L2303	ىرىيە بىرىمىيە بىرىم يىرىمىيە بىرىمىيە بىر		33.99 34.12	2	34.70	35.61	
29R2_2 CS1 19L2303 ST200528R	2_2 1613 CS1 19(2303	يسايين السابيين ويترجيه		31,99 <sup>34,12</sup>	2 2	34.70	35 61 6988 87 103118	
29R2_2 CS1 10L2303 ST200526R	2_2 1613 CS1 19L2383		33.73	31.99 <sup>34,12</sup>	2	34.70	35 61 6988 87	
29R2_2 CS1 10L2303 ST200520R	2_2 1613 CS1 19(2383	angan a ngangantan	33 73	33.99 <sup>34,12</sup>	2 2	3170	35 61 6988 87 103118	173
CS1 19L2303 ST200528R	and addated and the other states and	ingin panjanjanjar	1373	31,99 34 12 	2 2	34.70	35 51 6988 87 103118 36 29 13C-12,3,7,8,9 HaCDF	Fi Uditage 17.5 Fi Voltage
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CS1 10L2303 ST200520R R01 10L2303 ST200520R R01 10L2303 ST200520R CS1 19L2303 ST200520R	and addated and the other states and	aojaa a odoojiootooj	33.73			<u> </u>	35 51 5998 87 103118 35 25 13C-12.3.7.8.9 HaCDF 35 61	172 
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CS1 10L2303 ST200528R 28R2_2 CS1 19L2303 ST200528R	2_2 1613 C51 19L2352		3373		34,38	<u> </u>	35 51 5988 87 103118 35 25 13C-12.3.7.8.9-HACDF 35 61 235433.55 3492711 13C-12.3.7.8.9-HACDF 35 61 235433.65 3492711 13C-12.3.7.8.9-HACDF 36 61 36 61 36 61 36 61	172 F3 Voltaĝe 6.ŝc
CS1 19L2303 ST200528R 28R2_2 CS1 19L2303 ST200528R 28R2_2	2_2 1613 C51 19L2352		33.73 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 -	3398 3411	34,38	34 69	35 51 5988 87 193118 35 29 13C-12.3.7.8.9 HoCDF 35 61 25493 55 3492711 13C-12.3.7.8.9 HoCDF 35 61 235493 65 3492711 13C-12.3.7.8.9 HoCDF 36 81	۶۶۵ ۴۵ vonage 6,6c ۲۶ vonage
CS1 19L2303 ST200528R 28R2_2 CS1 19L2303 ST200528R 28R2_2	2_2 1613 C51 19L2352	nante servicente attention	3373 	3398 3411	34,38	34 69	35 51 5988 87 103118 35 25 13C-12.3.7.8.9-HACDF 35 61 235433.55 3492711 13C-12.3.7.8.9-HACDF 35 61 235433.65 3492711 13C-12.3.7.8.9-HACDF 36 61 36 61 36 61 36 61	۶۶۵ ۴۵ vonage 6,6c ۲۶ vonage



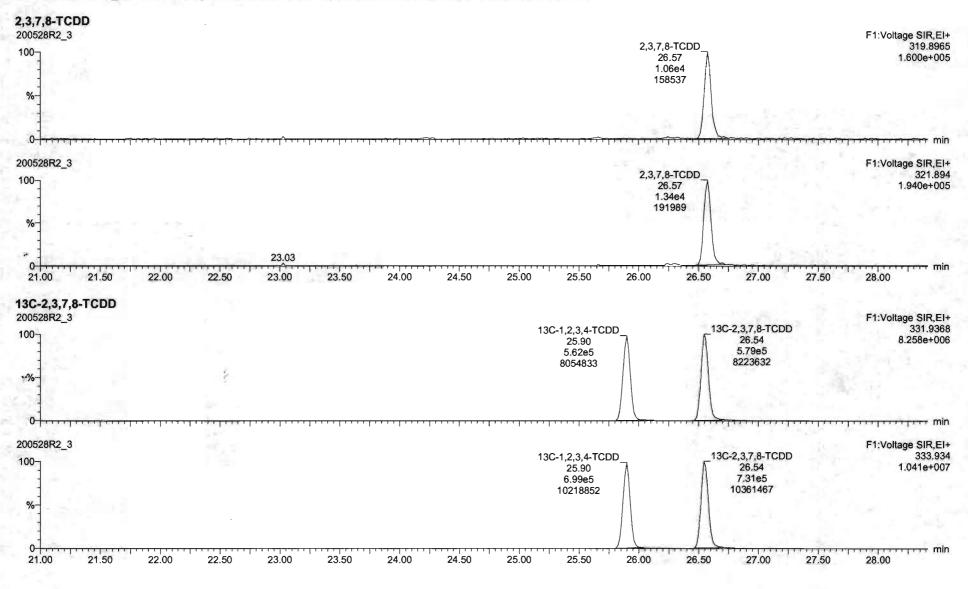


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Name	Reap R	ny RRF	NTVOI RT RR	T Conc. %Riec	OL EMPC							
2.3.7.6-TCDD	5.69e3 0		1000 26.57 1.00		0.0423 0.497							
1,2,3,7,8-PeCDO	2.12e4 0.6		1.000 31.51 1.00		0 0401 2 50							
1.2.3.4.7.8-HxCDD	1 85e4 1 2		1 000 34 88 1.00		0.0774 2.53							
1.2.3.6.7.8-HxCDD	1 90e4 1.		1 000 34 99 1 00		0.0747 2.47							
1 7.3.7 8 9-HxCDD 1,2.3 4,6 7,8-HpCDD	1.6284 1.2		1 000 35 27 1 00		0 0876 2 44							
0CDD	121e4 1.6		1 000 36 51 1 00 1 000 41 77 1 00		0.0618 2.33							
2.3.7.6-TCDF	653e3 03		1 000 25 67 1 00		0.0620 0.488							
1,2,3,7,8-PeCOF	3.05e4 1.5		1 000 30 23 1 00		0.0422 2.52							
2,3 4,7,8-PeCLF	3 1564 1.5		1000 3121 100		0.0395 2.52							
1.2,3,4.7,8-HxCDF	181e4 1		1 000 33 99 1 00		0.0665 2.41		14					
1,2.3,6,7 8-HACOF	21664 1		1.000 34.12 1.00		0.0642 2.50							
2.3.4.6.7.8-HxCDF 1.2.3.7.8.9-HxCDF	193e4 12 146e4 1		1 000 34 71 1 00 1 000 25 61 1 00		0 0702 2 36							
1.2.3.4 6 7.8-HpCDF	1 40e4 0 5		1 000 37 40 1 00		0.0580 2.48							
1.2.3.4.7.6.5-HpCDF	1.03e4 0.6		1 000 39.33 1.00		0.0630 2.33							
OCOF	2.40e4 0.3	10 0.8085	1.000 41.96 1.00	0 4.89 97.8	0.0756 4.39					34		
13C-2,3,7 8-TCDD	1 2966 0		1 000 26 54 1 02		0 09:76							
13C-1.2,3 7.8-PeCDD	9 %6e5 0 8		1 000 31 50 1 21		0 113						1 - P.N.	
13C-1.2.3.4 7.8-HxCDD 13C-1.2.3.6,7.8-HxCDD	6 46e5 13		1 000 34 87 1.01 1.000 34.96 1.01		0 183							
982_2 \$1 19L2303 \$T20052881	2 1613 CS1 18L	303		,	OCDF, 41 96, 1095	1 58,140901			43,44			Fillenaen 143
	12 1613 CS1 19L				OCDF, 41 95, 1095	1.58,140901			43.44	<del>۲. ۴۰۲۳, ۴۰۰ , ۲۰۰۰</del>	<del>، «د کار» در از معالی در سرا</del>	A 1.14 1.16 1.16 1.
S1 18,2303 9720052881	2 1613 CS1 190		*****	<u>∼∼?</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OCDF, 41 95, 1095	1 58(140901		******	43,44	<del>2 </del>	•••••••••••••••••	A 1.14 1.16 1.16 1.
\$1 18L2303 \$720052881		<del></del>	<del></del>	÷;;;;;;;;;;;;					43,44	1 <del>7 - 7 - 7 - 7 - 7 - 7 - 7 - 7</del>	<del>,</del>	1 #3 
S1 19L2303 ST20052881		<del></del>	<del></del>		OCDF, 41 95, 1095				43.44	₩ <del>₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</del>	<del>د در کرد در در در</del>	1 42 
\$1 18L2303 \$720052881		<del></del>					n far te lje te lje te slje se s	(+>-)	43.44	<del>₩ ₩1₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</del>	n telefon en forsten en for	1 #3 
S1 TRL2303 ST20052881		<del></del>					a ya a sa	and the second	43,44	<del>* - ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		1 #3 
\$1 T8L2303 \$720052881		<del></del>			OCDF 41 96, 1308				43,44 ∽,,^,	<sup>19.</sup> 3.179,50,17		1 #3 
S1 19L2303 ST200528R1 R2_2 S1 19L2303 ST200523R: R2_2	2, 2 1613 (35 19),				OCDF 41 96, 1308	98,164307			43,44 ∽,,^,,,	<sup>19.</sup> <sup>2</sup> ,1 <sup>29,22</sup> ,1 <sup>27,12</sup> ,1 <sup>2</sup> ,,1		1 #3 
S1 19L2303 ST200528R1 	2, 2 1613 (35 19),				OCDF 41 96, 1309	9.98,184307			43,44 ∽,~~~,^~,~,~,~,~,~,~,~,~,~,~,~,~,~,~,~,~	<sup>19</sup> <sup>2</sup> +1 <sup>-2</sup> )- <sup>2</sup> -1 <sup>2</sup> -	• • • • • • • • • • • • • • • • • • •	9 at F5 voltage 1 6f 55 voltage F5 voltage
S1 18L2303 ST200528R1 (R2_2 S1 19L2303 ST200523R: (R2_2 S1 19L2303 ST200523R)	2, 2 1613 (35 19),			- 4 - Profession - 1 - 1 - 1	OCDF 41 96, 1308	9.98,184307			43,44			FS Voltage 1 St 1 St 
S1 18L2303 ST200528R1 (R2_2 S1 19L2303 ST200523R: (R2_2 S1 19L2303 ST200523R)	2, 2 1613 (35 19),			- 44-10-10-10-10-10-10-10-10-10-10-10-10-10-	OCDF 41 96, 1309	9.98,184307			43,44	19	ىلىنى بىرىنىيى بىرىرىيى بىرىنىيى بىرىيى بىرىيى بىرىيى بىرى بىرىنى بىرىنىيى بىرىنىيى بىرىيى بىرىيى بىرىيى بىرىيى بىرى	9 at F5 voltage 1 6f 55 voltage F5 voltage
81 19L2303 ST200528R1 R2_2 S1 19L2303 ST200528R3	2, 2 1613 (35 19),				OCDF 41 96, 1309	9.98,184307			43.44	<del>Υ τη γιατρατικός του του</del>	ىلىدىنى بوغىلى بويىغى - لە	9 at F5 voltage 1 6f 55 voltage F5 voltage
81 19L2303 ST200528R1 R2_2 S1 19L2303 ST200528R3	2, 2 1613 (35 19),				OCDF 41 96, 1309	9.98,184307			43.44	<sup>19</sup> - <sup>1</sup> - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		9 at F5 voltage 1 6f 55 voltage F5 voltage
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S1 19L2303 ST200528R3 IR2_2 S1 19L2303 ST200528R3 IR2_2 S1 19L2303 ST200528R3 IR2_2 S1 19L2303 ST200528R3 IR2_2	2, 2 1613 (35 19), 2, 2 1613 (35 19), 2, 2 1613 (35 19),	302		WILL E	OCDF 41 96, 1309	98,164307			43.44	°		F5 voltage F5 voltage F5 voltage F5 voltage F5 voltage
	2, 2 1613 (35 19), 2, 2 1613 (35 19), 2, 2 1613 (35 19),	302		WILL E	OCDF 41 96, 1309	98,164307	· · · · · · · · · · · · · · · · · · ·		43,44	ν <sup>2</sup> −−−−, μ <sup>−</sup> −−−, μ <sup>−−−</sup> −, μ <sup>−−−</sup> , μ <sup>−−−−</sup> , μ <sup>−−−−−</sup> , μ <sup>−−−−−−−−, μ<sup>−−−−−−</sup>, μ<sup>−−−−−−</sup>, μ<sup>−−−−−−−−−, μ<sup>−−−−−−−−−−−−−−−−, μ<sup>−−−−−−−−−−−−−−−−</sup></sup></sup></sup>		F5 Voltage F5 Voltage F5 voltage 4 7 ti F5 voltage
S1 19L2303 ST200528R3 IR2_2 S1 19L2303 ST200528R3 IR2_2 S1 19L2303 ST200528R3 IR2_2 S1 19L2303 ST200528R3 IR2_2	2, 2 1613 (35 19), 2, 2 1613 (35 19), 2, 2 1613 (35 19),	302		WILL E	OCDF 41 96, 1309	98,164307			43.44			F5 voltage F5 voltage F5 voltage F5 voltage F5 voltage
81 19L2303 ST200528R3 19-11-21-22 R2_2 S1 19L2303 ST200528R3 R2_2 S1 19L2303 ST200528R3 R2_2 S1 19L2303 ST200528R3	2, 2 1613 (35 19), 2, 2 1613 (35 19), 2, 2 1613 (35 19),	302		WILL E	OCDF 41 96, 1309	98,164307			43.44	(*************************************	بر از	F5 voltage F5 voltage F5 voltage F5 voltage F5 voltage
81 19L2303 ST200528R3 19-11-21-22 R2_2 S1 19L2303 ST200528R3 R2_2 S1 19L2303 ST200528R3 R2_2 S1 19L2303 ST200528R3	2, 2 1613 (35 19), 2, 2 1613 (31 19), 2, 2 1613 (31 19), 2, 2 1613 (31 19)	302		WILL E	OCDF 41 96, 1309	1 98,164307 38.00,7114817 27.88;8204909		43.00 43.20				F5 voltage F5 voltage F5 voltage F5 voltage F5 voltage

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K2 0528R2_2									F2:Voltage SIR,
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28.50 <b>K3</b>	28.75 29.00 29.2	·	30.00 30.25 30			31.50	31.75 32.0	00 32.2	5 32.50
28.50 K3 1528R2_2 0-3 32.		5 29.50 29.75 33.58 <sup>33.63</sup>	30.00 30.25 34 34.10	0.50 30.75 34.79;4.91e4 34.36	042650	31.50 5.76e4;1101461		00 32.2 35.56 35.68	5 32.50 F3:Voltage SIR, 35.79 380.93
<b>K3</b> 1528R2_2 32.64		·		34.79;4.91e4	042650				5 32.50 F3:Voltage SIR, 35.79 380.93
<b>K3</b> 0528R2_2 032.64 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	81 32.96 33.11 33.24	33.58 33.63	34.10	34.79;4.91e4 34.36	;843658 35.07	5.76e4;1101461	35.3335.42	35.56 35.68	5 32.50 F3:Voltage SIR, 35.79 380.97 9.504e+(
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<b>K3</b> 0528R2_2 0 32.64 32.64 32.64 <b>K4</b> 0528R2_2 0 36.49;9.3 0 36.49;9.3	81 32.96 33.11 33.24 30 33.00 33.20	33.58 <sup>33.63</sup> 33.40 33.60 33.80	<u>34.10</u> 0 34.00 34.20	34.79;4.91e4 34.36 34.40 34.60	;843658 35.07 34.80 3 38.67	5.76e4;1101461 5.00 35.20	<u>35.3335.42</u> 35.40	35.56 35.68 35.60	5 32.50 F3:Voltage SIR, 35.79 380.97 9:504e+( 35.80 36.00 F4:Voltage SIR,
<b>K3</b> 528R2_2 32.64 32.64 32.64 32.64 528R2_2 36.49;9.3 36.33	81 32.96 33.11 33.24 30 33.00 33.20	<u>33.58</u> <u>33.63</u> <u>33.63</u> <u>33.63</u> <u>33.63</u> <u>33.60</u> <u>33.80</u>	34.10 0 34.00 34.20 37.63 37.81 37.95	34.79;4.91e4 34.36 34.40 34.60 38.3038.40	34.80 3 38.60 38.67 38.61 38.67	5.76e4;1101461 5.00 35.20 14 39.	35.3335.42 35.40 16 39.42	35.56 35.68 35.60	5 32.50 F3:Voltage SIR, 35.79 380.9 9.504e+( 35.80 36.0) F4:Voltage SIR, 430.9 39.827.813e+(
<b>K3</b> 528R2_2 32.64 32.64 32.64 32.64 528R2_2 36.49;9.3 36.33	81       32.96       33.11       33.24         30       33.00       33.20         30e5;3526245       36.87       36.	33.58 <sup>33.63</sup> 33.40 33.60 33.80 99 37.29 37.34 37.50 3	34.10 0 34.00 34.20 37.63 37.81 37.95	34.79;4.91e4 34.36 34.40 34.60	34.80 3 38.60 38.67 38.61 38.67	5.76e4;1101461 5.00 35.20 34 39	35.3335.42 35.40 16 39.42	35.56 35.68 35.60	F3:Voltage SIR, 35.79 380.9 9:504e+( 35.80 36.0) F4:Voltage SIR, 430.9 39.827.813e+(
<b>K3</b> 0528R2_2 032.64 032.64 032.64 <b>K4</b> 0528R2_2 036.49;9.3 036.40 <b>K5</b>	81       32.96       33.11       33.24         30       33.00       33.20         30e5;3526245       36.87       36.	33.58 <sup>33.63</sup> 33.40 33.60 33.80 99 37.29 37.34 37.50 3	<u>34.10</u> 0 34.00 34.20 37.63 37.81 37.95	34.79;4.91e4 34.36 34.40 34.60 38.3038.40	34.80 3 38.60 38.67 38.60 38.67	5.76e4;1101461 5.00 35.20 34 39	<u>35.3335.42</u> 35.40 <u>16</u> <u>39.42</u>	35.56 35.68 35.60	5 32.50 F3:Voltage SIR, 35.79 380.97 9:504e+( 35.80 36.00 F4:Voltage SIR, 39.827.813e+( 39.80 40.00
<b>K3</b> 1528R2_2 32.64 32.64 32.64 32.64 528R2_2 36.49;9.3 36.49;9.3 36.49;9.3 36.40 <b>K5</b> 528R2_2	81       32.96       33.11       33.24         30       33.00       33.20         30e5;3526245       36.87       36.         36.60       36.80       37         36.60       36.80       37	33.58 <sup>33.63</sup> 33.40 33.60 33.80 99 37.29 37.34 37.50 3 .00 37.20 37.40 37	34.10 34.00 34.20 37.63 37.81 37.95 7.60 37.80 38.00	34.79;4.91e4 34.36 34.40 34.60 38.3038.40 38.20 38.40	3843658 35.07 34.80 3 38.60 38.67 38.60 38.80	5.76e4;1101461 5.00 35.20 14 39. 14 39.00 3	<u>35.3335.42</u> 35.40 <u>16</u> <u>39.42</u> 39.20 <u>39.40</u>	35.56 35.68 35.60	5 32.50 F3:Voltage SIR, 35.79 380.97 9:504e+( 35.80 36.00 F4:Voltage SIR, 39.827.813e+( 39.80 40.00 F5:Voltage SIR,
<b>K3</b> 1528R2_2 32.64 32.64 32.64 32.64 5228R2_2 36.49;9.3 36.49;9.3 36.49;9.3 36.40 <b>K5</b> 5228R2_2	81       32.96       33.11       33.24         30       33.00       33.20         30e5;3526245       36.87       36.	33.58 <sup>33.63</sup> 33.40 33.60 33.80 99 37.29 37.34 37.50 3 .00 37.20 37.40 37	<u>34.10</u> 0 34.00 34.20 37.63 37.81 37.95	34.79;4.91e4 34.36 34.40 34.60 38.3038.40 38.20 38.40	34.80 3 38.60 38.67 38.60 38.67	5.76e4;1101461 5.00 35.20 14 39. 14 39.00 3	<u>35.3335.42</u> 35.40 <u>16</u> <u>39.42</u> 39.20 <u>39.40</u>	35.56 35.68 35.60	5 32.50 F3:Voltage SIR, 35.79 380.97 9:594e+( 35.80 36.00 F4:Voltage SIR, 39.827.813e+( 39.80 40.00 F5:Voltage SIR,

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0 0 1.00 21.50 22.00 22.50 23.00 23.50 2 C-1,2,3,4-TCDD 0528R2_3	13C-1,2,3,4-TCDD 13C-2,3,7,8 25.90 26.5 5.62e5 5.79e	F1:Voltage SIR,E 3-TCDD 331.936 4 8.258e+00
<b>G-1,2,3,4-TCDD</b> <b>0</b> <b>0</b> <b>0</b> <b>1</b> <b>1</b> <b>0</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	13C-1,2,3,4-TCDD 13C-2,3,7,8 25.90 26.5 5.62e5 5.79e	00 27.50 28.00 F1:Voltage SIR,E 3-TCDD 331.934 4 8.258e+00 55 32
0 0 21.00 21.50 22.00 22.50 23.00 23.50 2 C-1,2,3,4-TCDD 0528R2_3 0 4 4 4 4 4 4 4 4 4 4 4 4 4	13C-1,2,3,4-TCDD 13C-2,3,7,8 25.90 26.5 5.62e5 5.79e	00 27.50 28.00 F1:Voltage SIR,E 3-TCDD 331.93 4 8.258e+00 5 32 F1:Voltage SIR,E F1:Voltage SIR,E 3.2 F1:Voltage SIR,E 3.3 4 1.041e+00 4 1.041e+00

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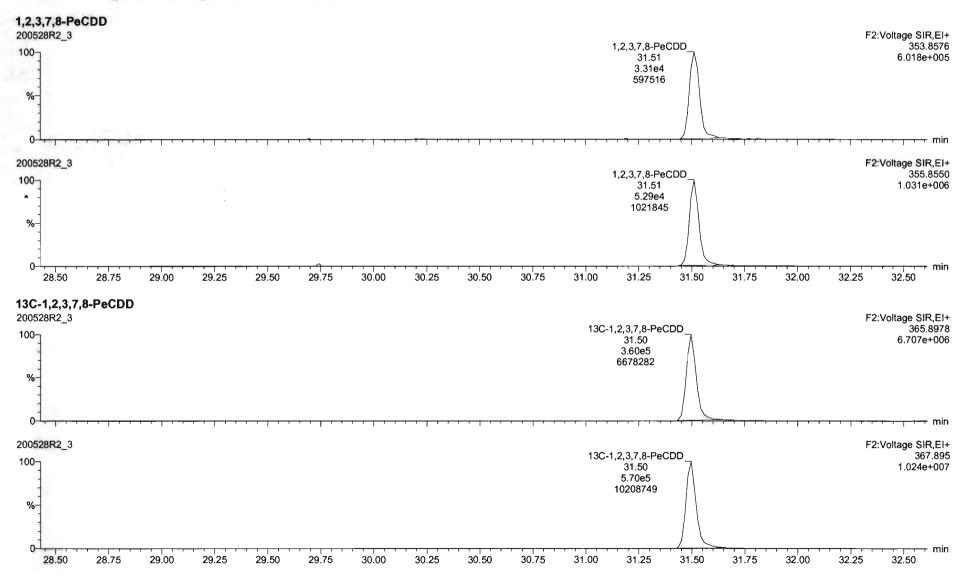
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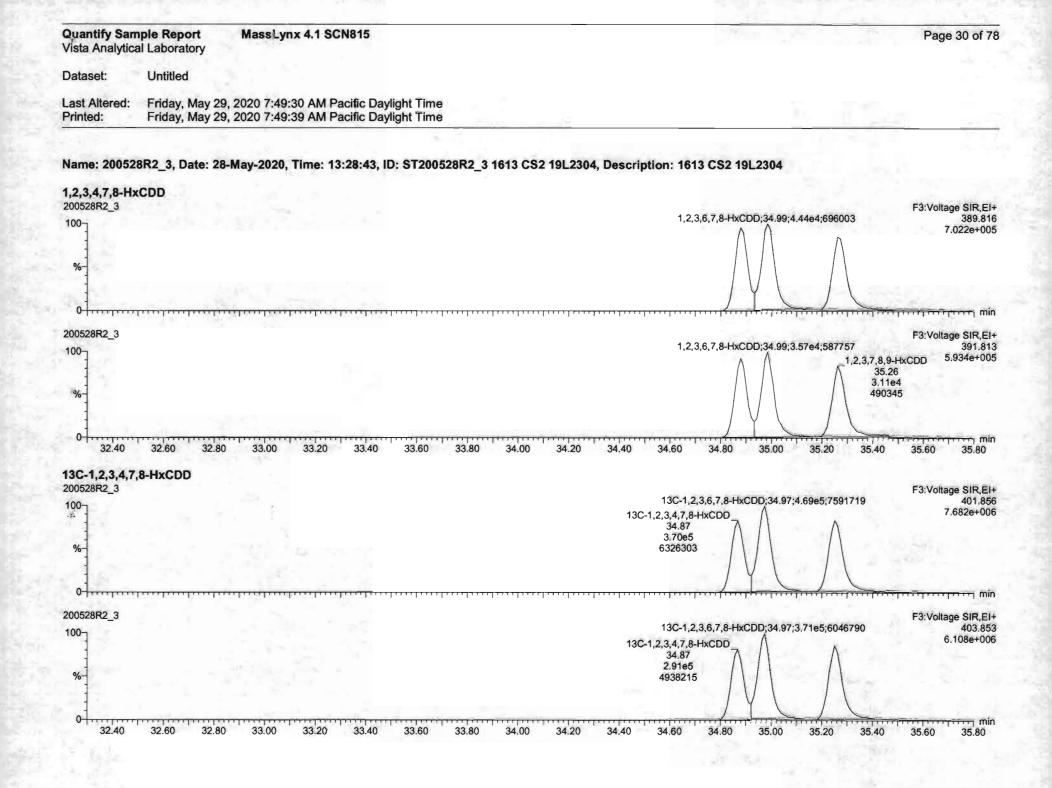
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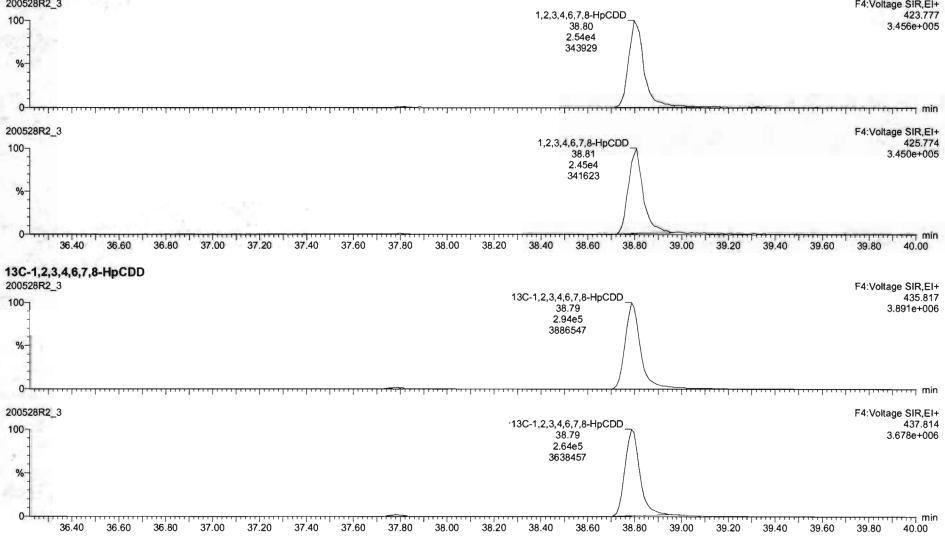
Quantify Sam Vista Analytica		Page 29 of 78
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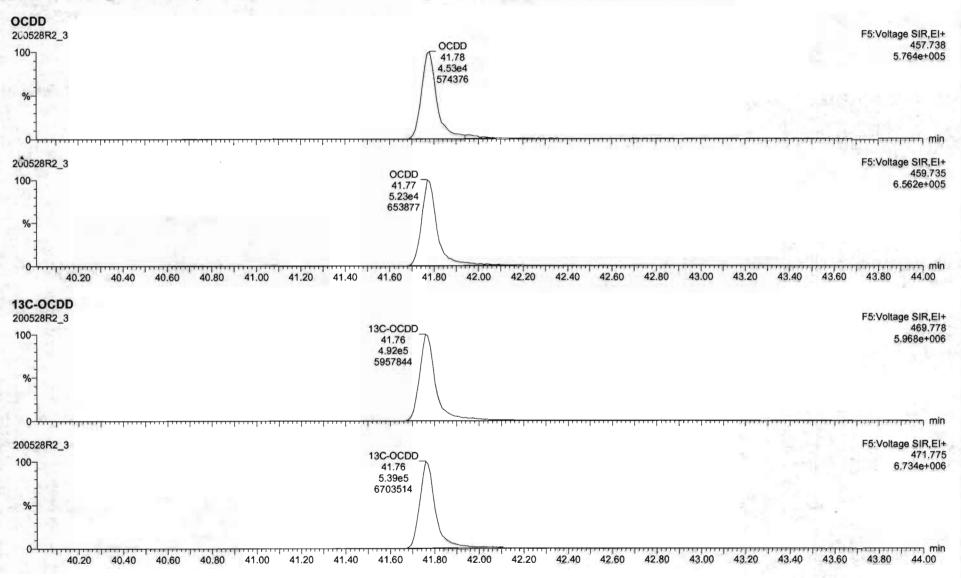


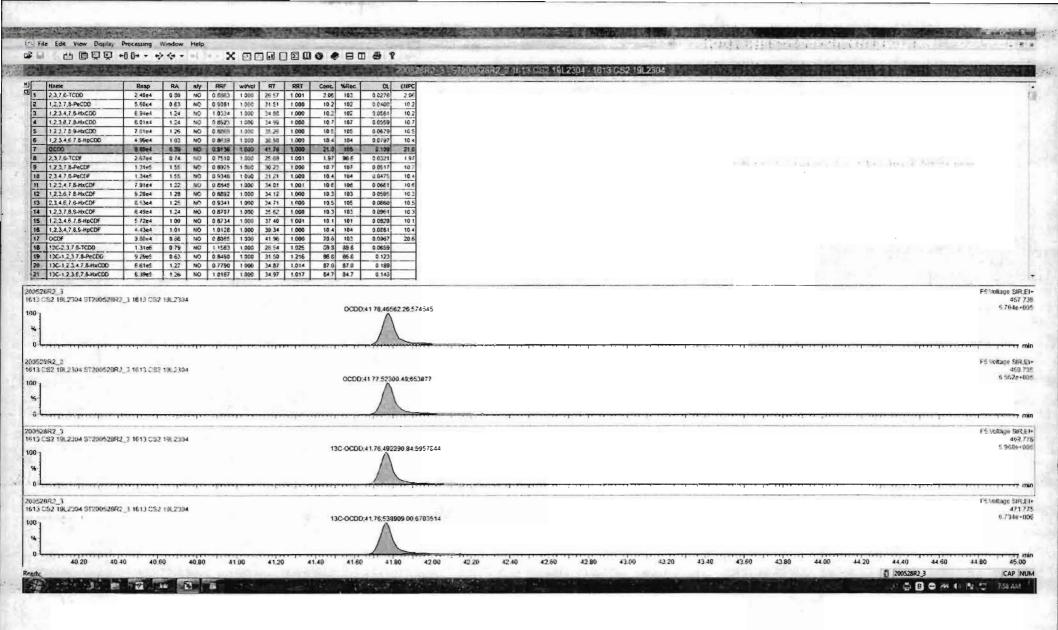
Quantify Sam Vista Analytica		Page 31 of 78
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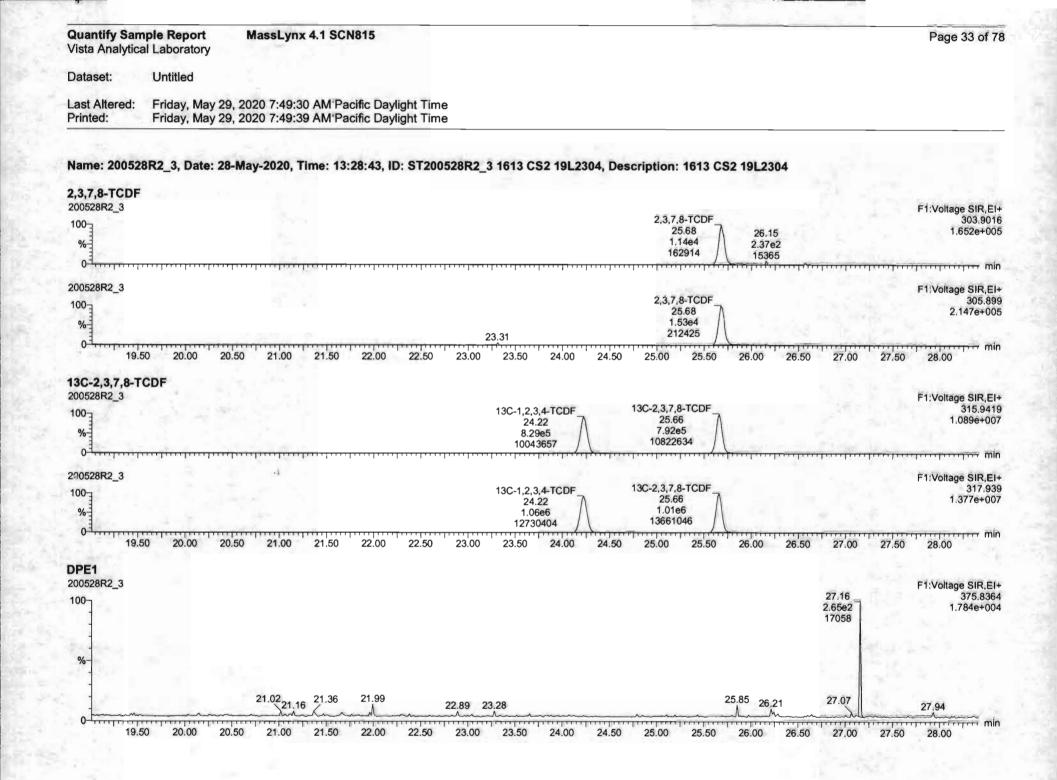


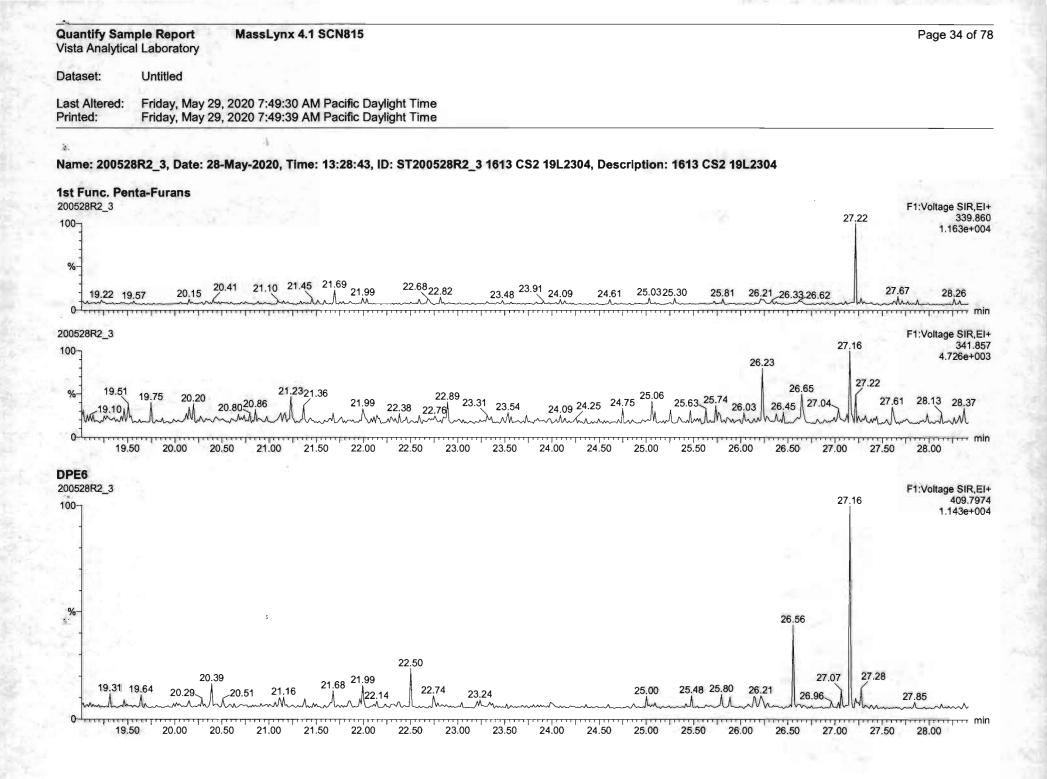
Quantify Sam Vista Analytica		Page 32 of 78
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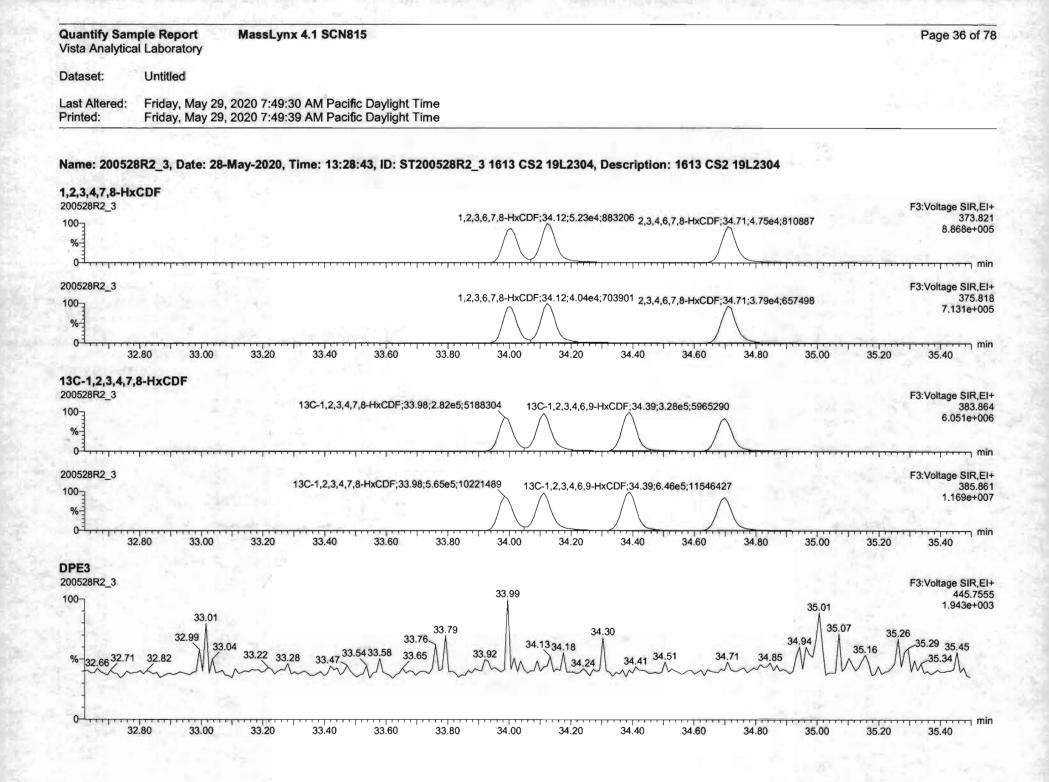








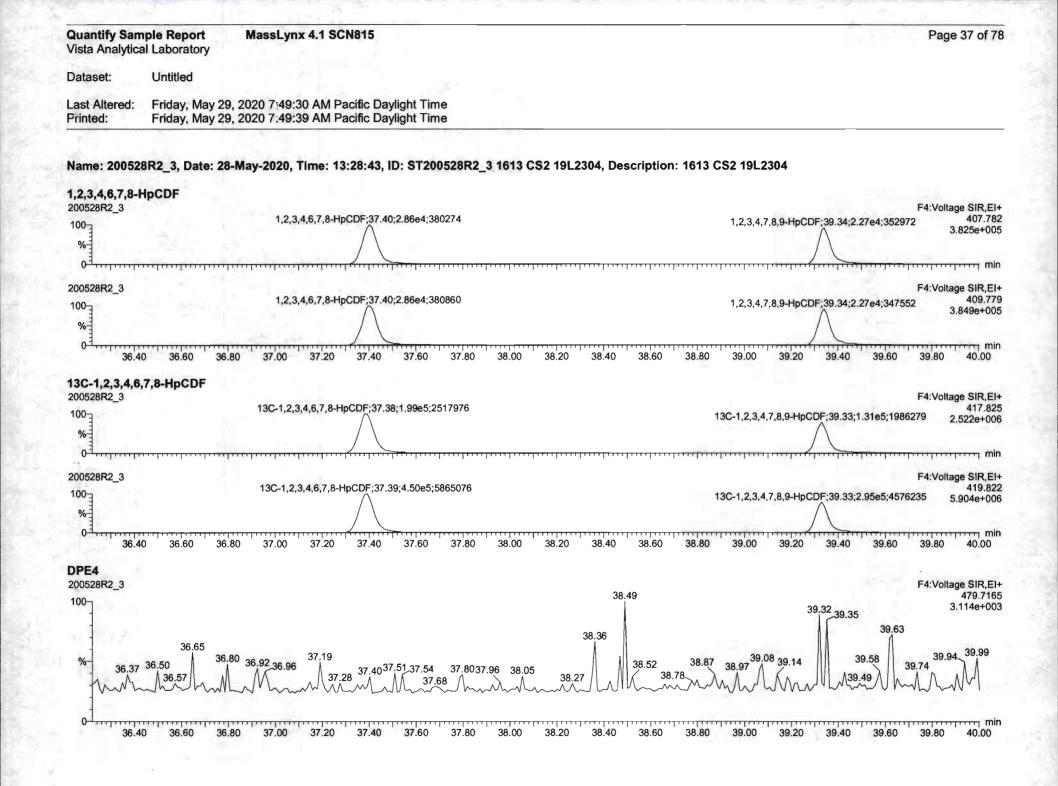
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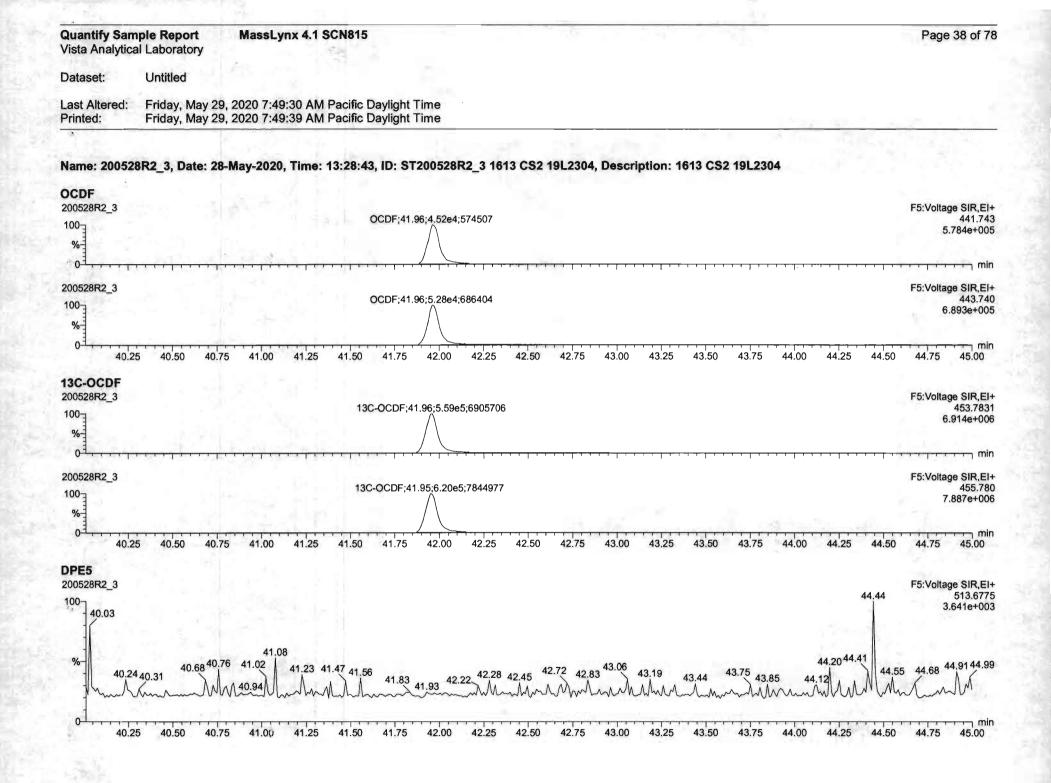
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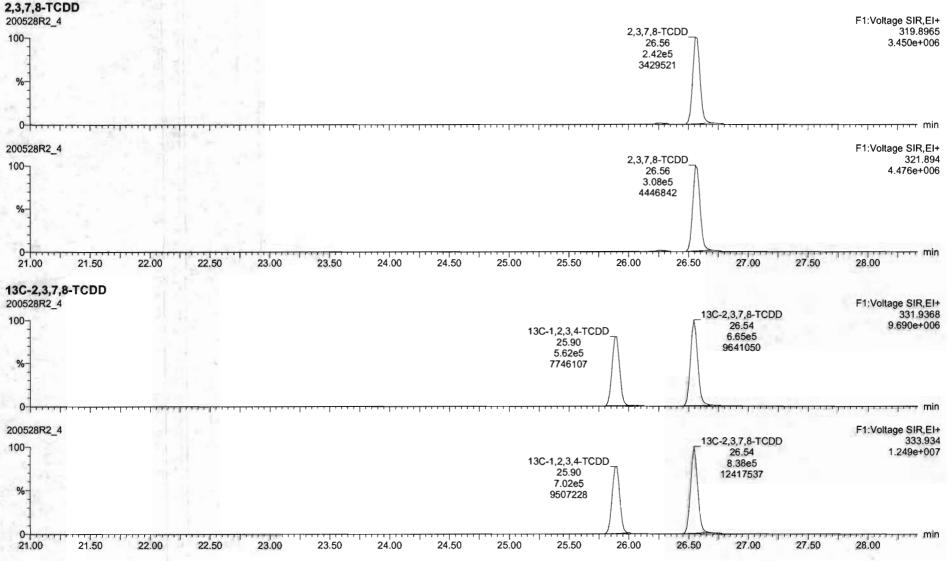
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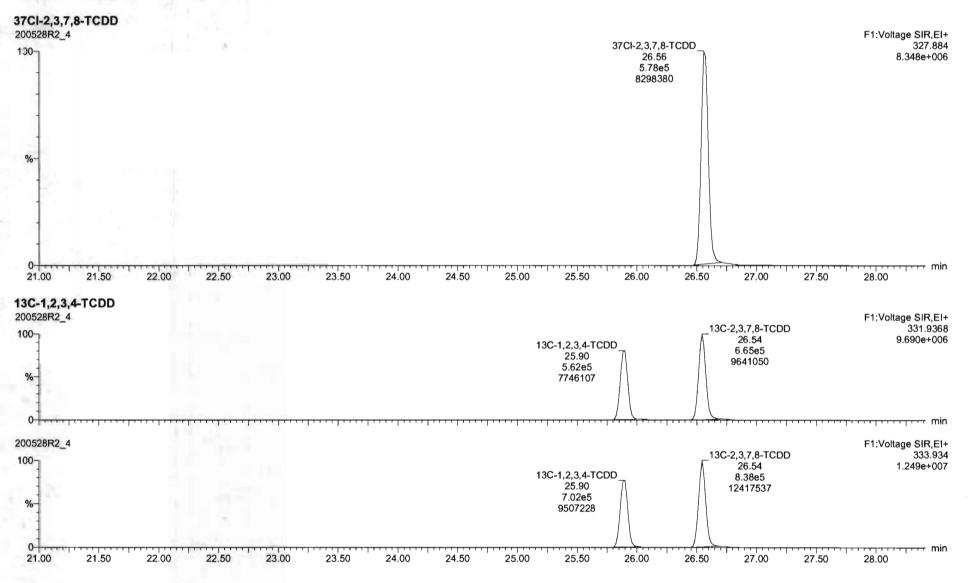
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32.94;1.38e6;5789766       1.34e5       33.92       34.61;4.88e5;2647699       35.07;1.92e5;1568565         %       1191760       33.92       34.61;4.88e5;2647699       35.07;1.92e5;1568565         %       32.80       33.00       33.20       33.40       33.60       34.00       34.20       34.40       34.60       34.80       35.00       35.20         FK4         005228R2_3       36.47;8.29e5;3198919       36.91       37.16       37.43       37.68       38.10       38.22       38.51       38.64       38.94       39.09;39.         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.         FK5         00528R2_3       41.22       43.04;4.73e5;1401875       43.04;4.73e5;1401875       43.04;4.73e5;1401875	35.68 35.74 380.97 35.68 35.74 1.075e+00 35.40 35.60 35.80 36.00 F4:Voltage SIR,E 12 39.39 39.52 39.67 430.97 6.668e+00 20 39.40 39.60 39.80 40.00 F5:Voltage SIR,E 55:Voltage SIR,E 454.97 454.97
32.94;1.38e6;5789766       1.34e5       33.92       34.61;4.88e5;2647699       35.07;1.92e5;1568565         %       1191760       33.92       34.61;4.88e5;2647699       35.07;1.92e5;1568565         %       32.80       33.00       33.20       33.40       33.60       34.00       34.20       34.40       34.60       34.80       35.00       35.20         FK4         000       36.47;8.29e5;3198919       36.91       37.16       37.43       37.68       38.10       38.22       38.51       38.64       38.94       39.09.39.         36.40       36.60       36.80       37.00       37.20       37.40       37.60       37.80       38.00       38.40       38.60       38.80       39.00       39.         FK5         00528R2_3         136.40       36.60       36.80       37.00       37.20       37.40       37.60       38.00       38.20       38.40       38.60       39.00       39.         5         5       5       5       5       5       5       5       5       5       5       5       5       5       5       5       5	35.68 35.74 380.97 35.68 1.075e+0 1.075e+0 35.40 35.60 35.80 36.00 F4:Voltage SIR,E 12 39.39 39.52 39.67 430.97 6.668e+0 20 39.40 39.60 39.80 40.00 F5:Voltage SIR,E 454.97

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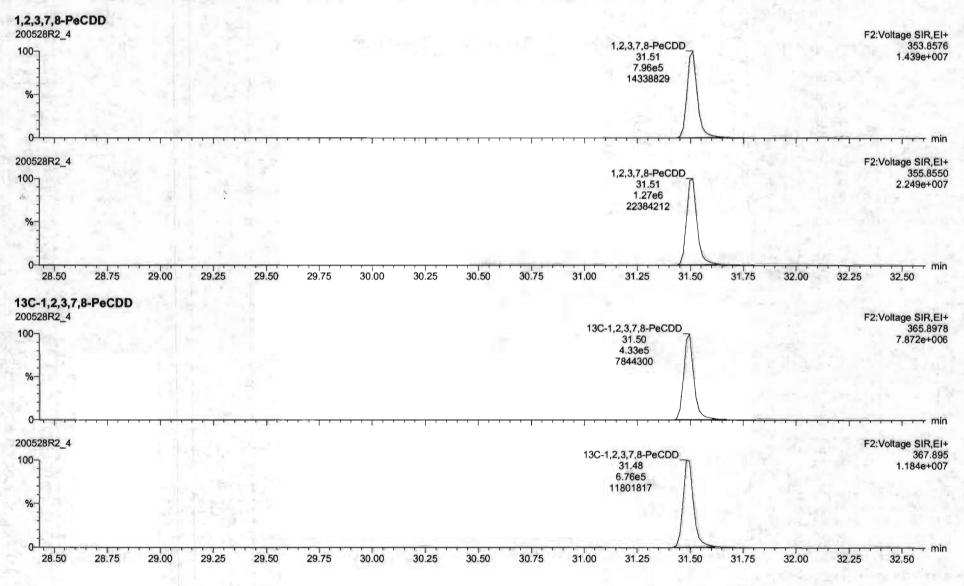
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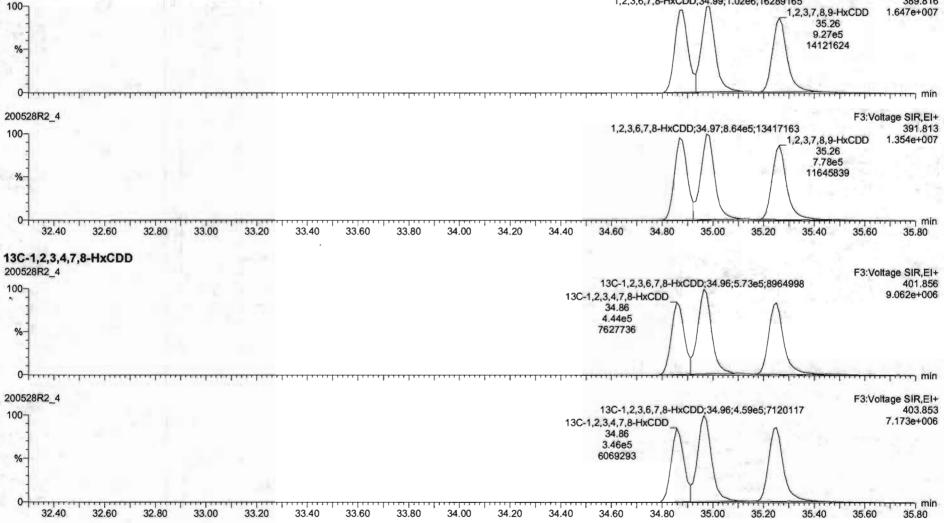


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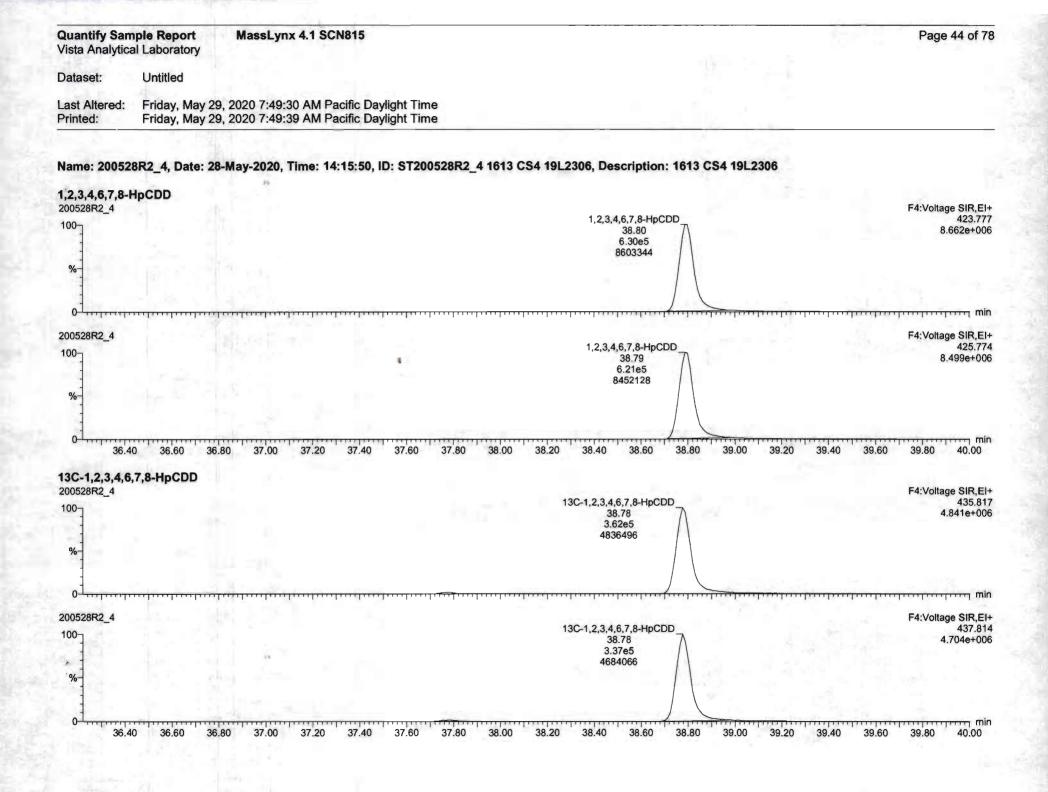
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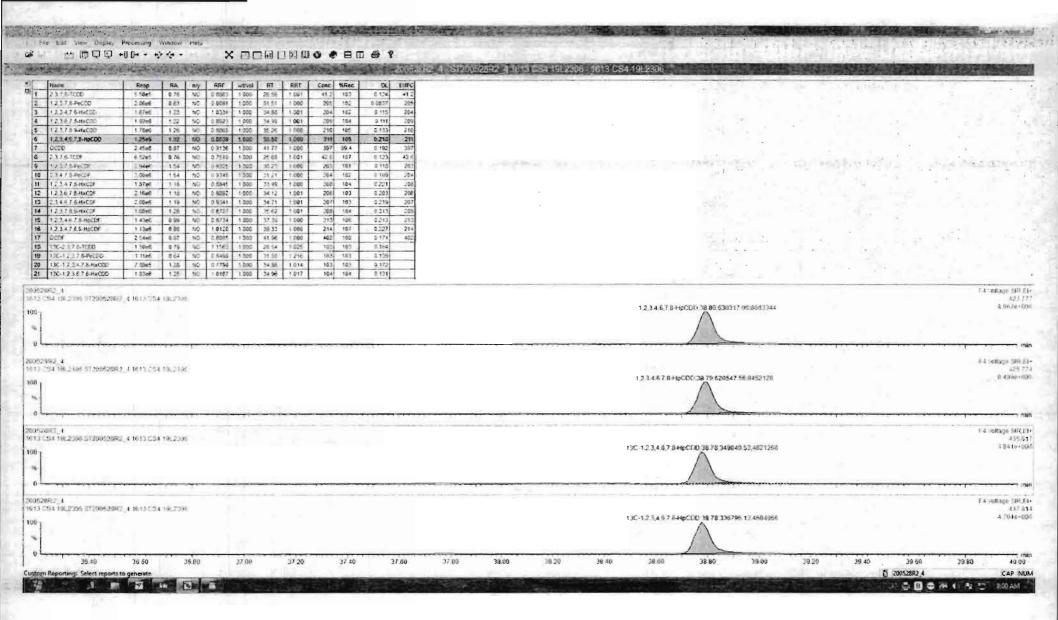
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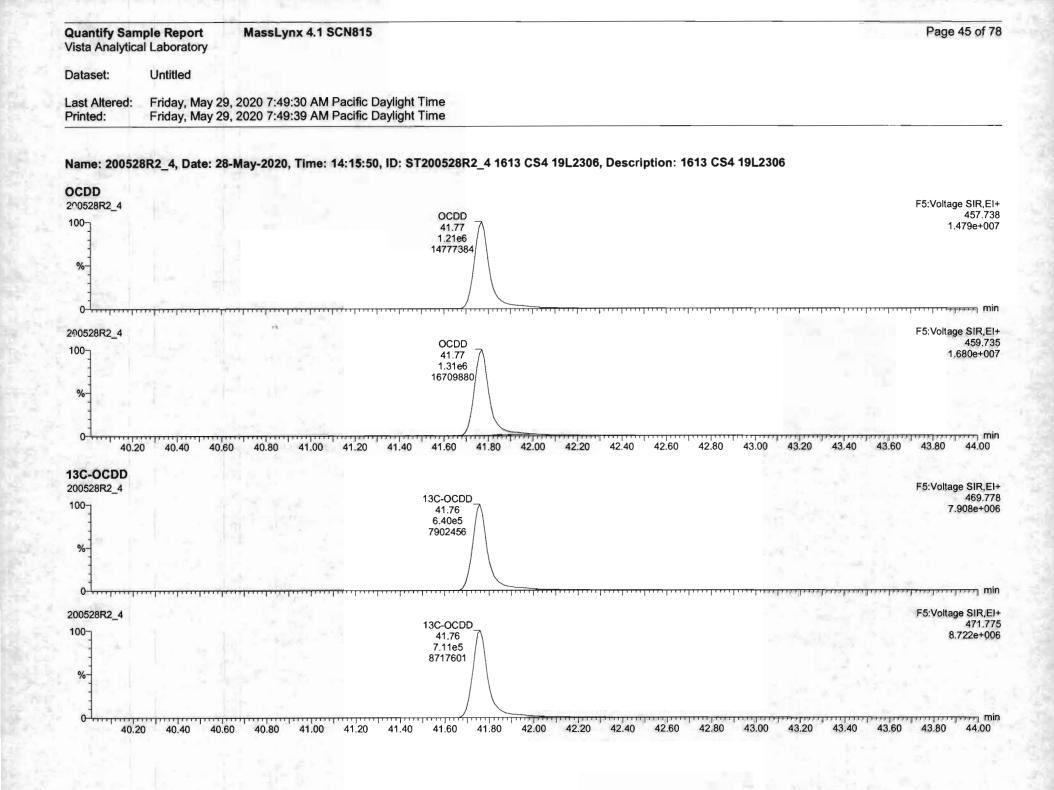
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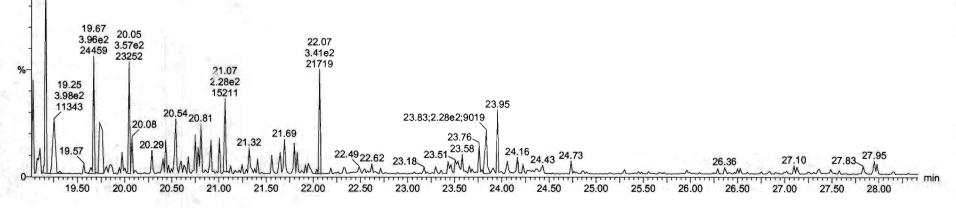




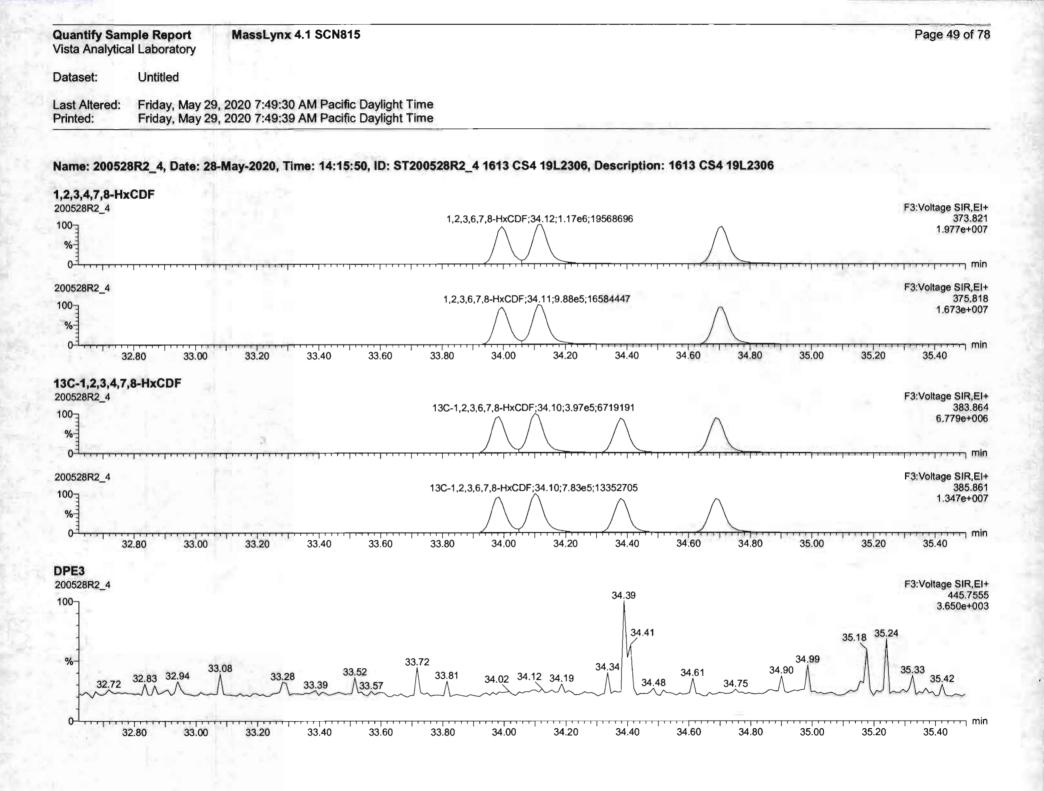
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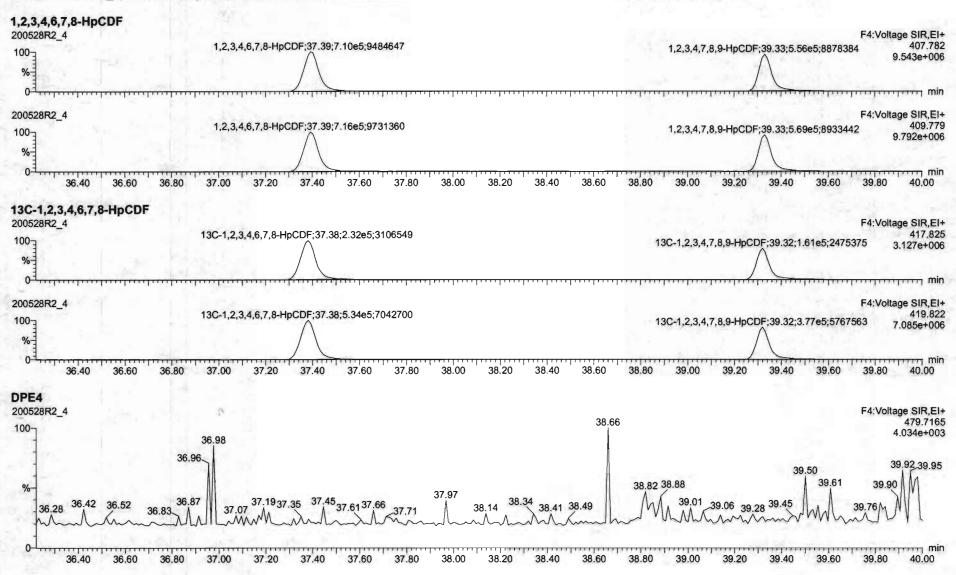
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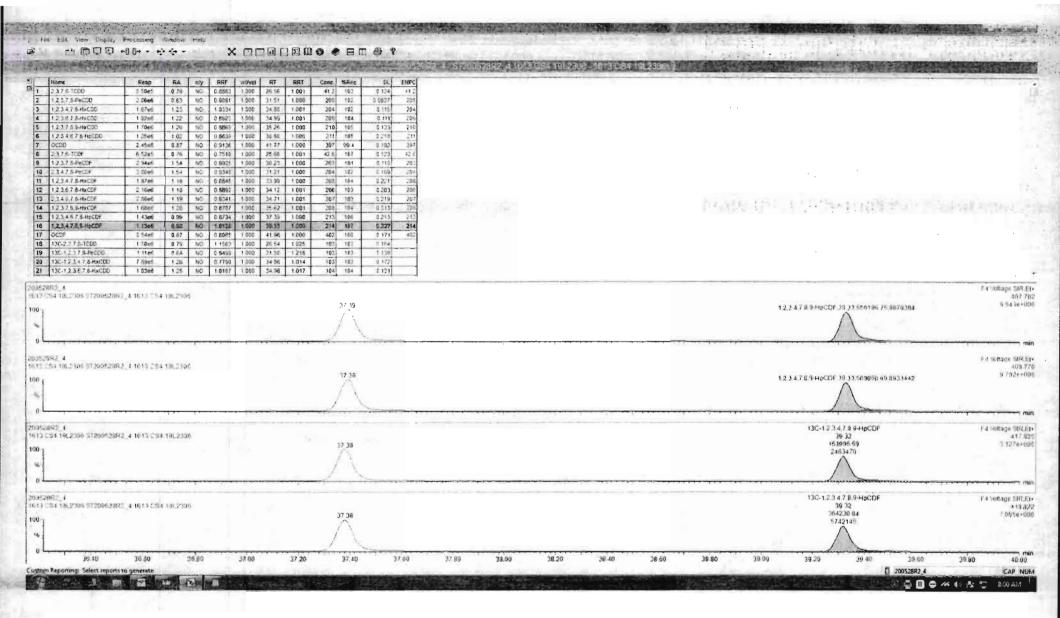


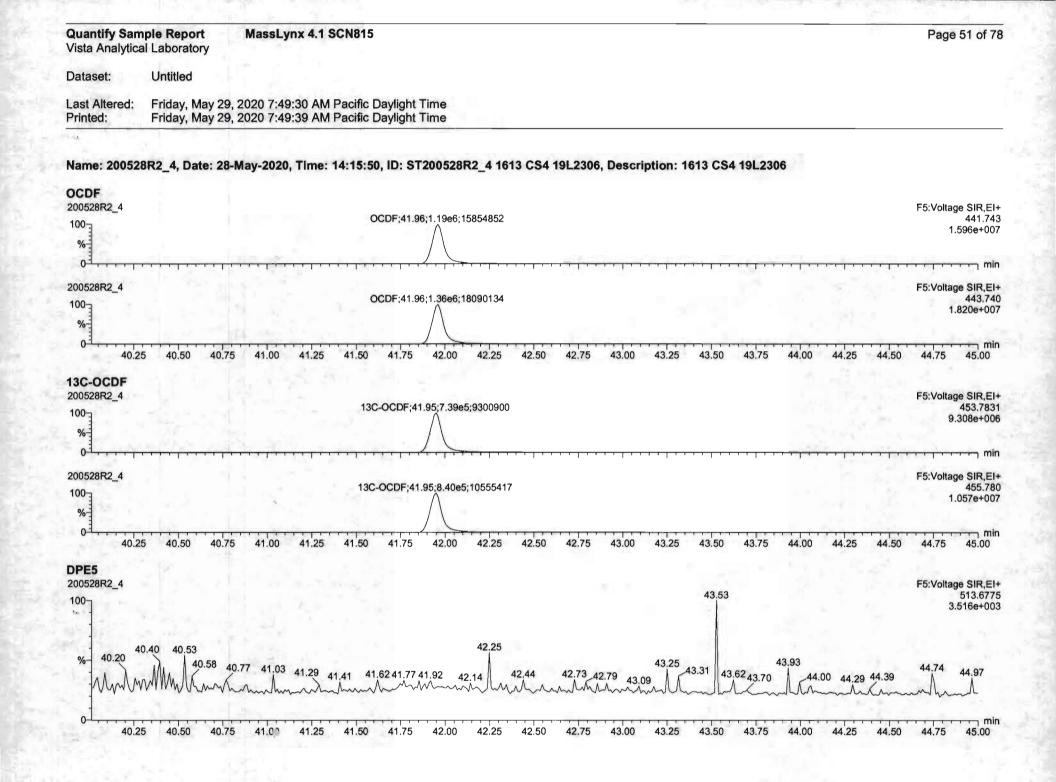
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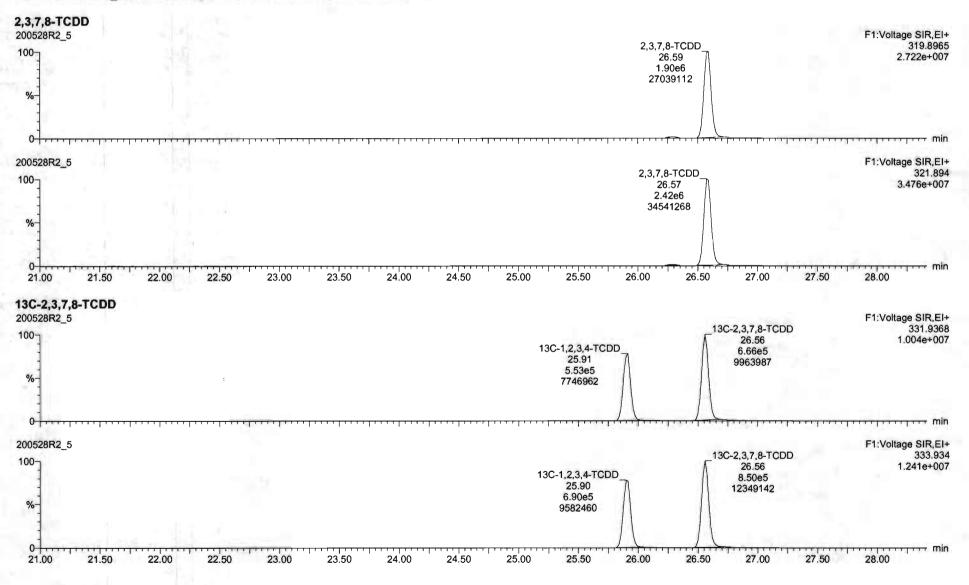


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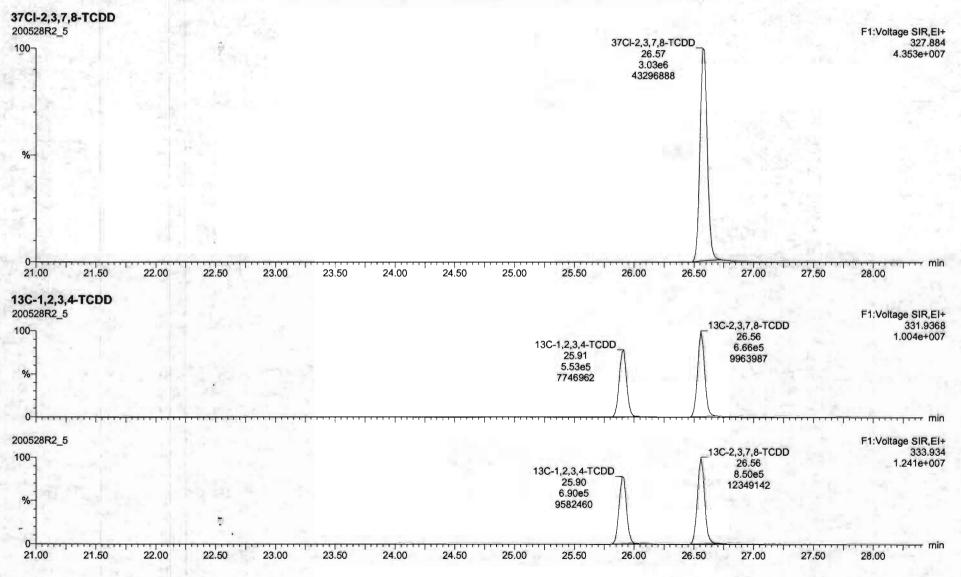
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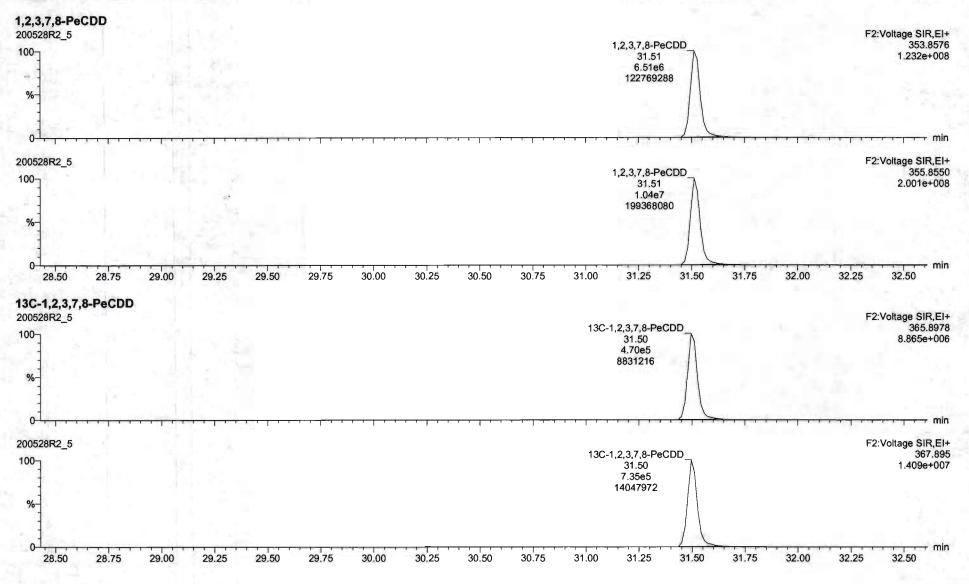


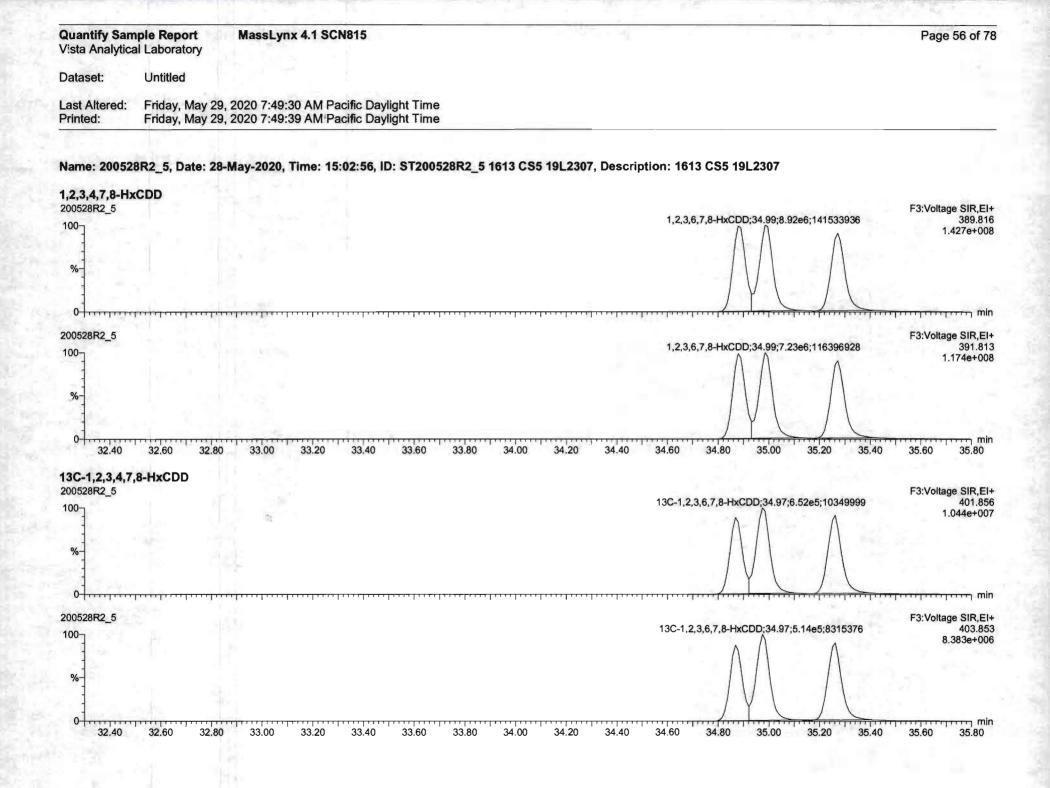
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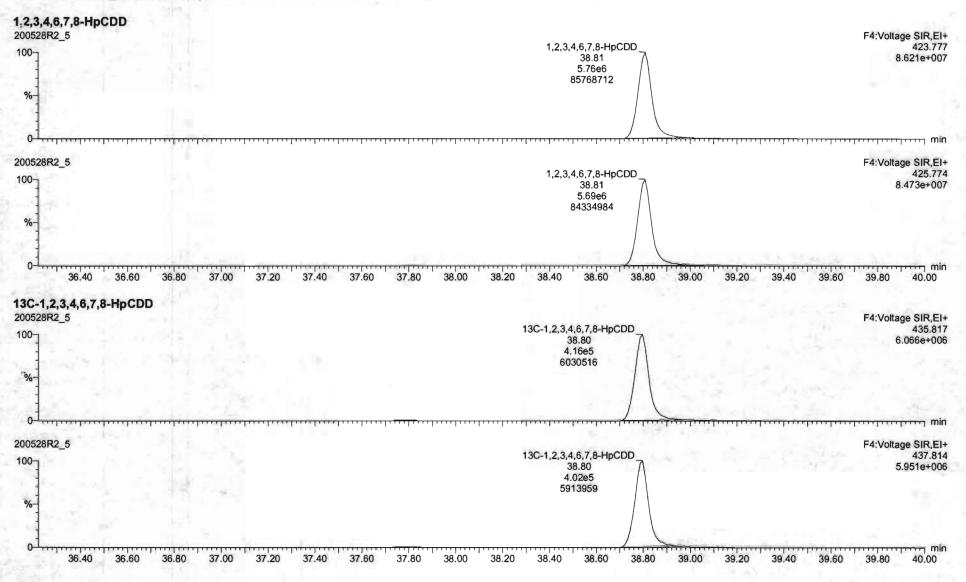


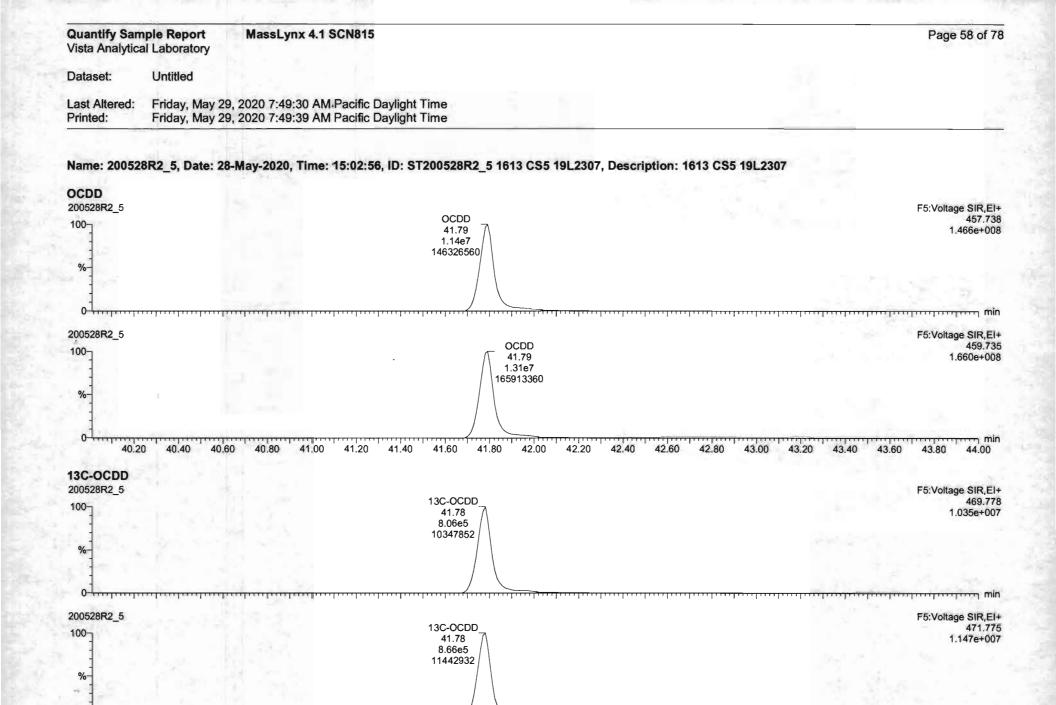


#### Work Order 2000947

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### Name: 200528R2\_5, Date: 28-May-2020, Time: 15:02:56, ID: ST200528R2\_5 1613 CS5 19L2307, Description: 1613 CS5 19L2307





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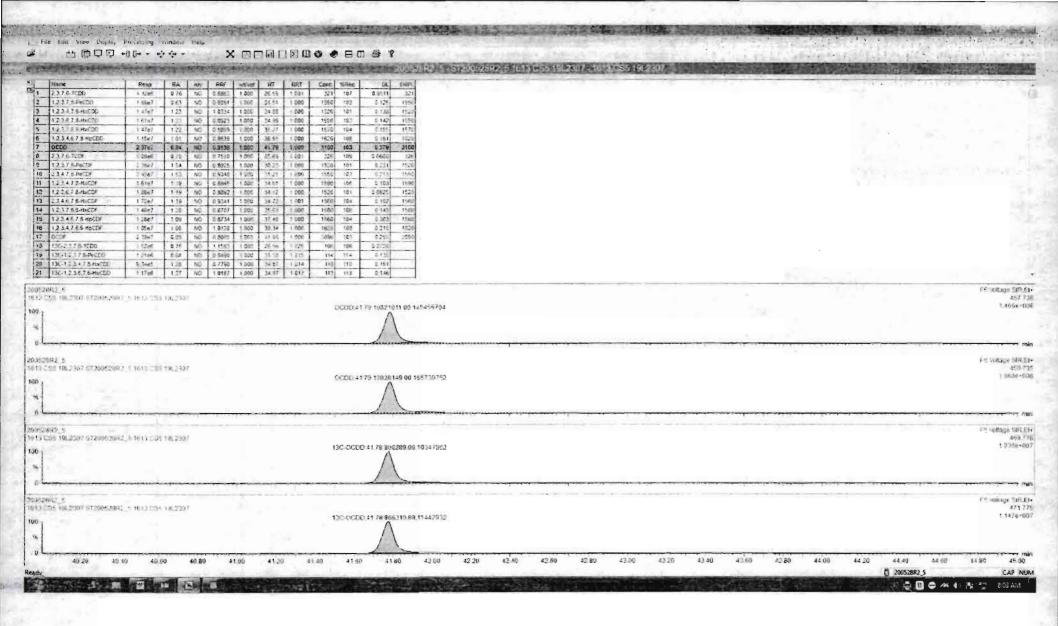
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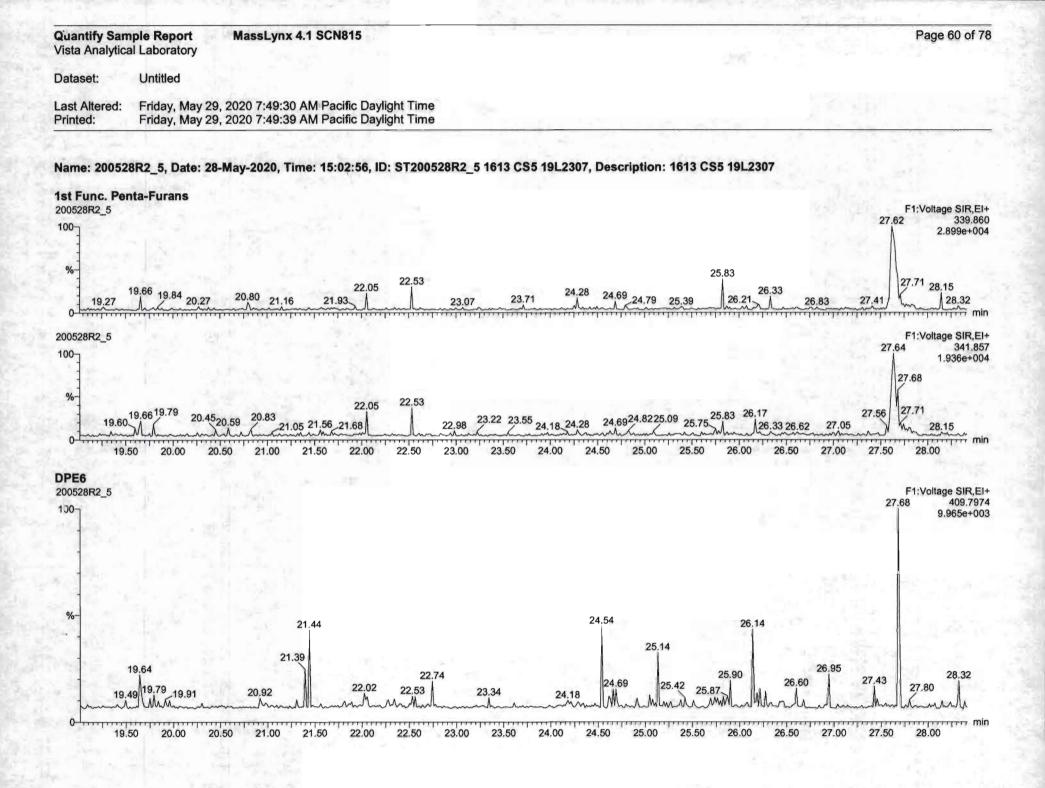
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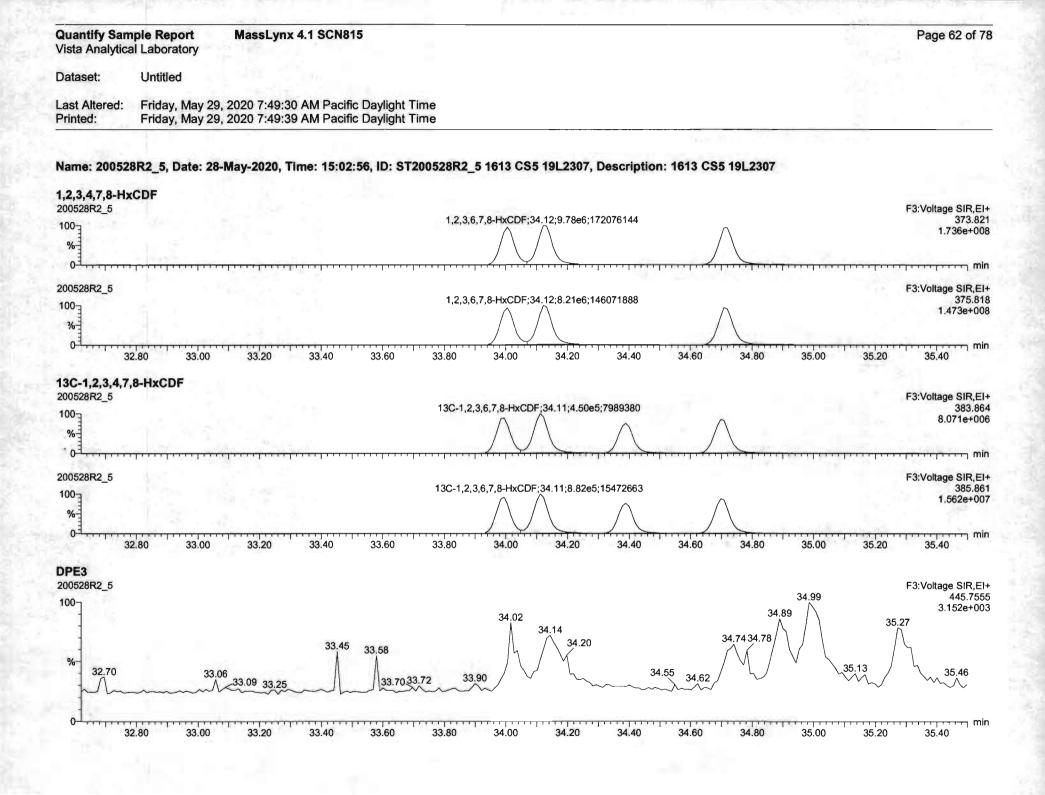
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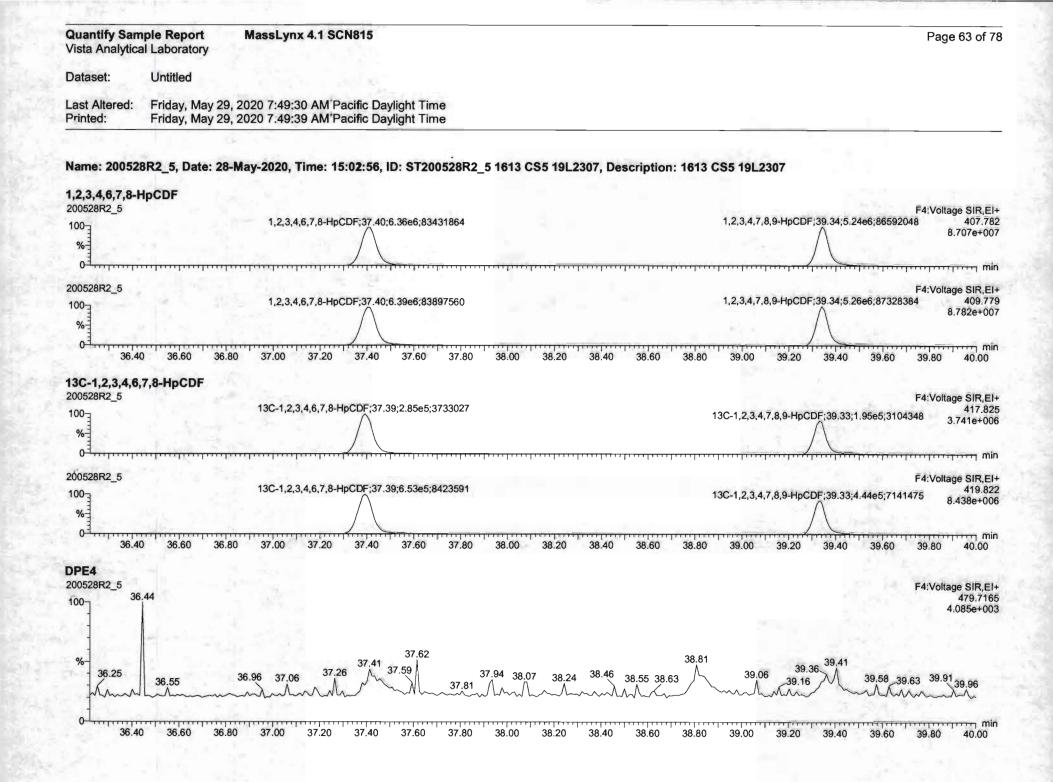


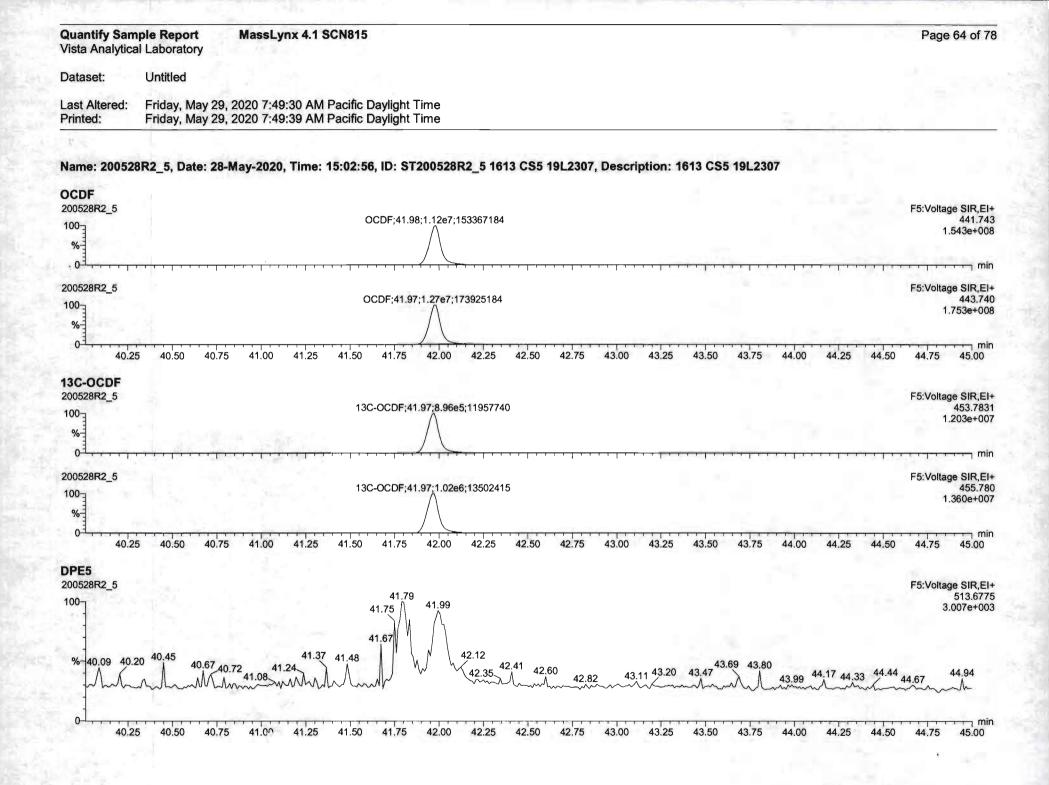
Work Order 2000947

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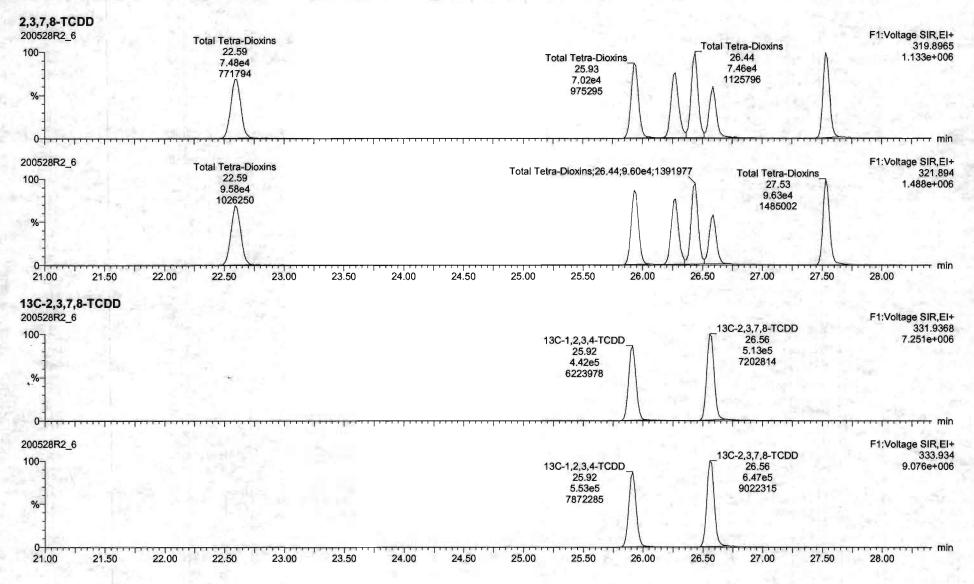


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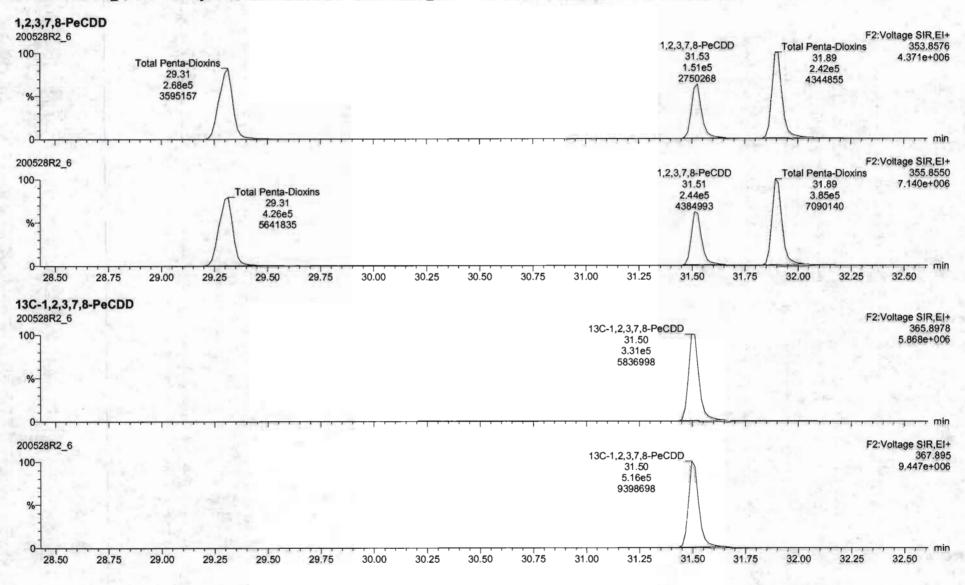


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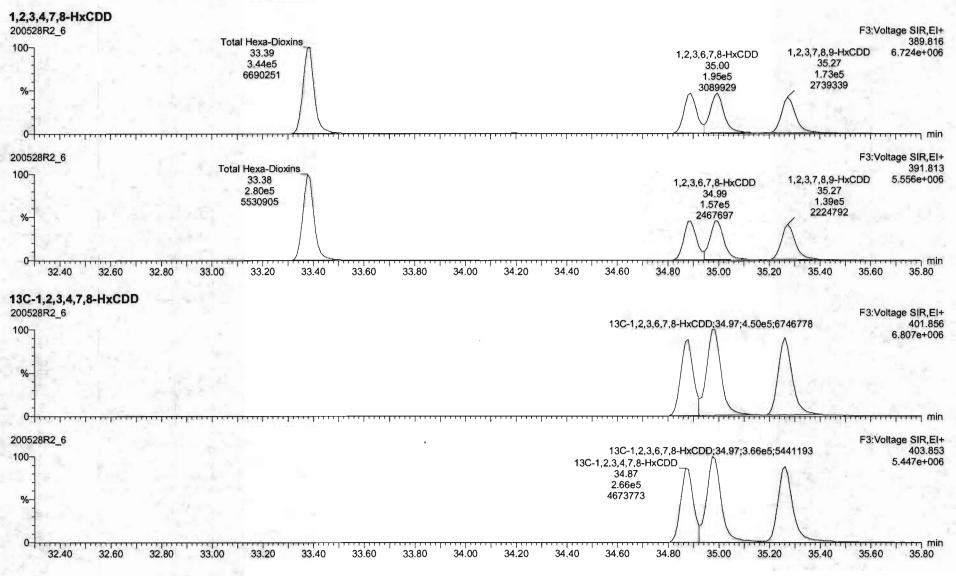
Work Order 2000947

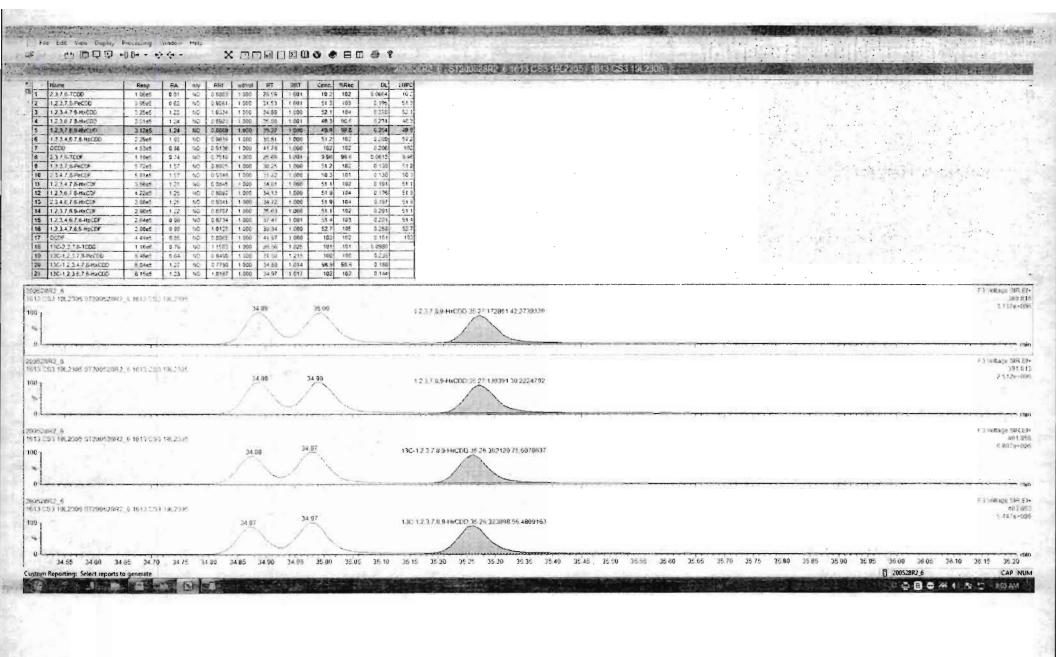
Quantify Sam Vista Analytica		Page 68 of 78
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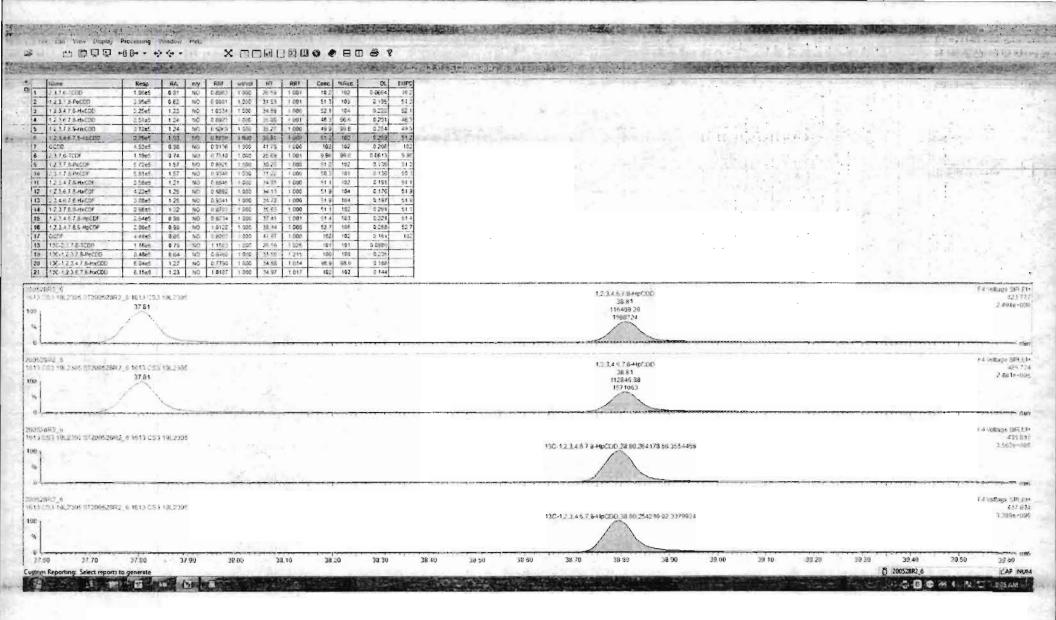


Quantify Sam Vista Analytica		Page 69 of 78
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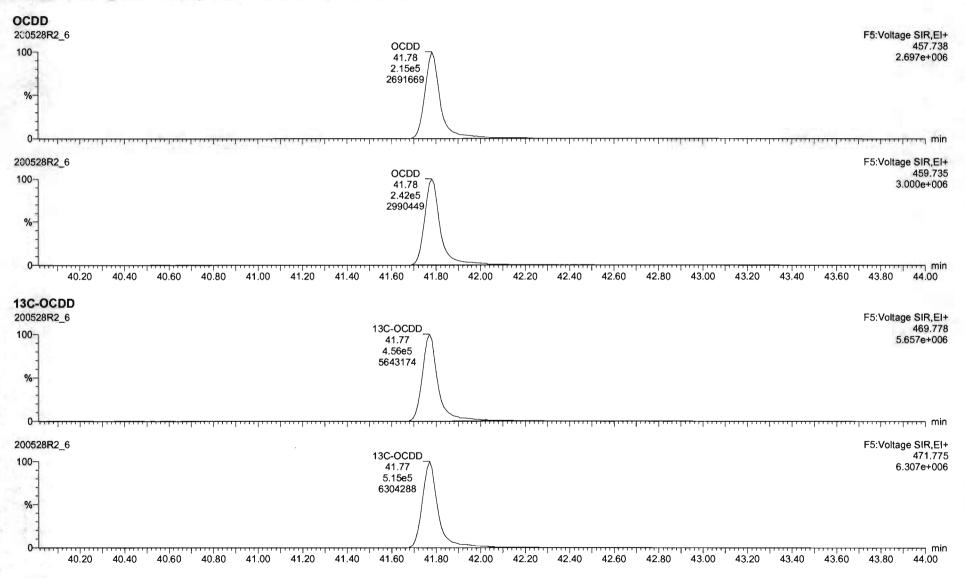


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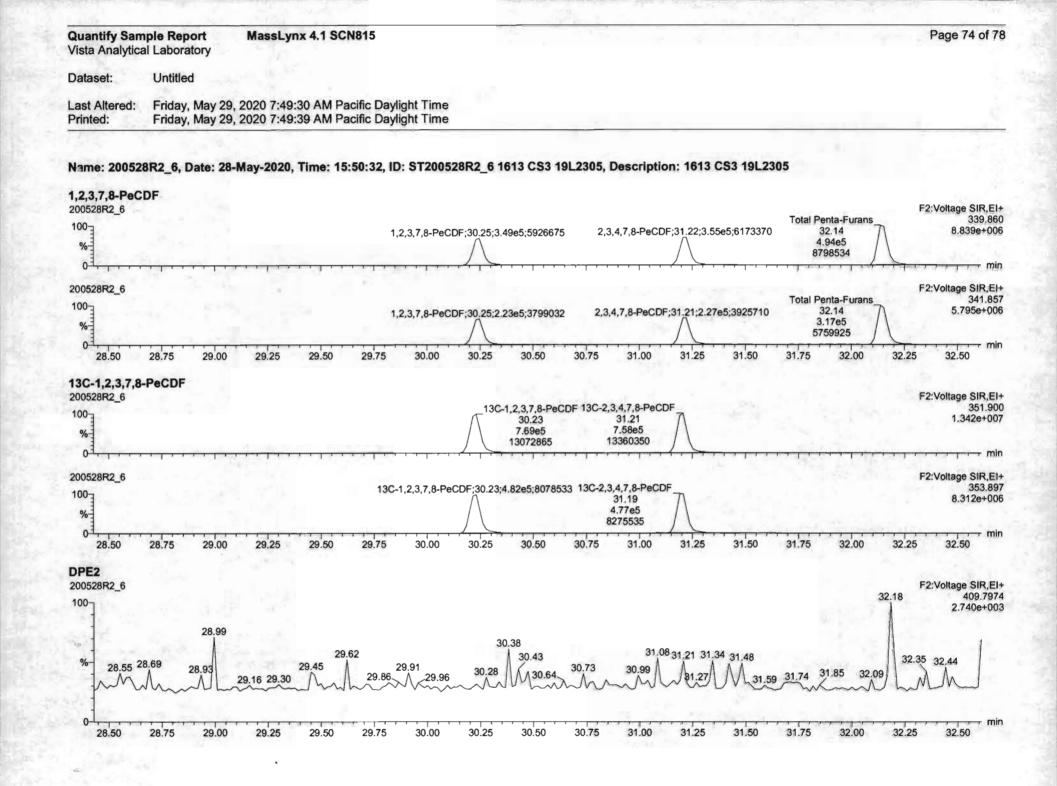
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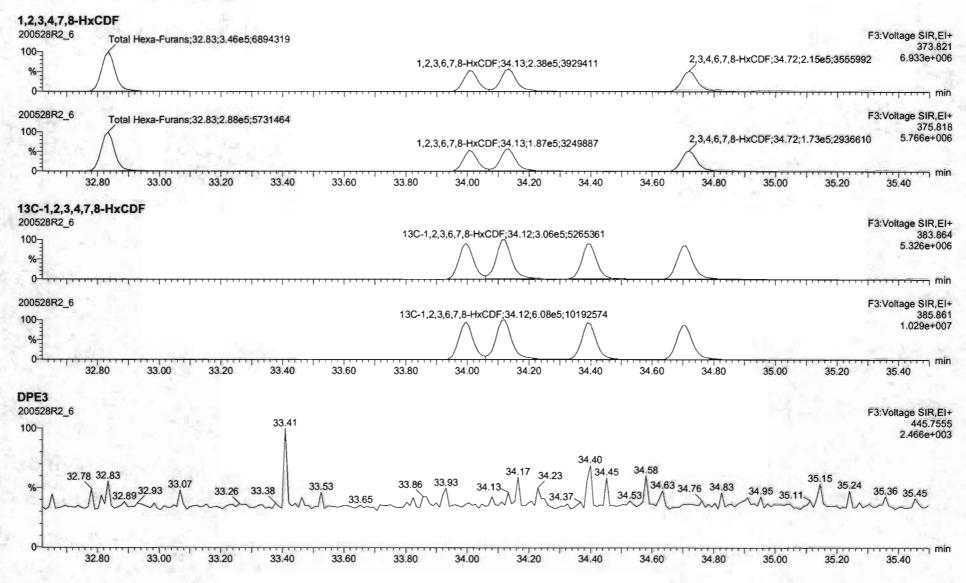
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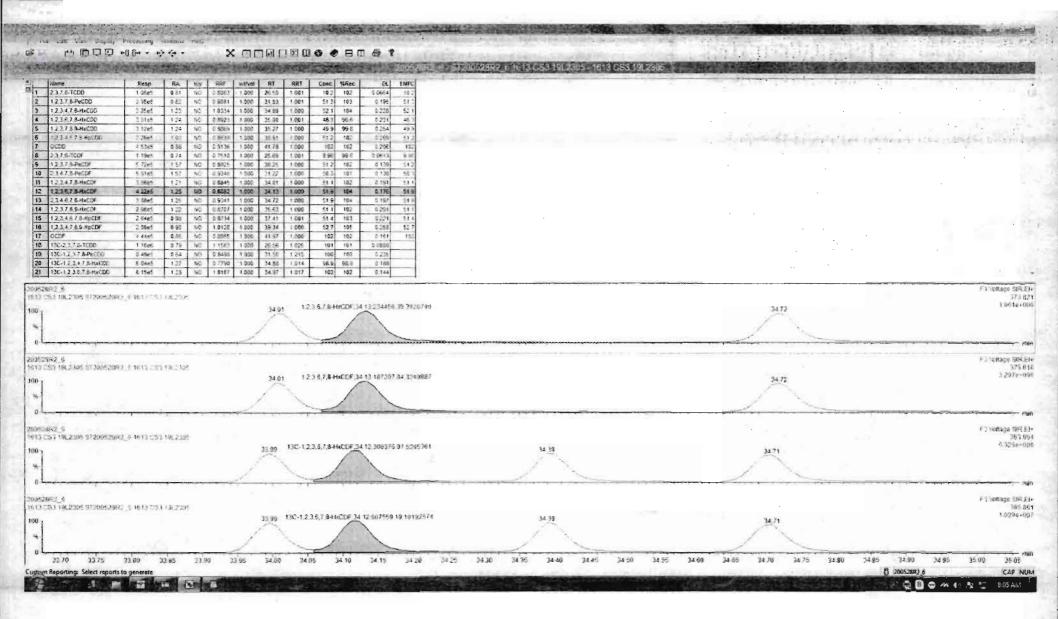
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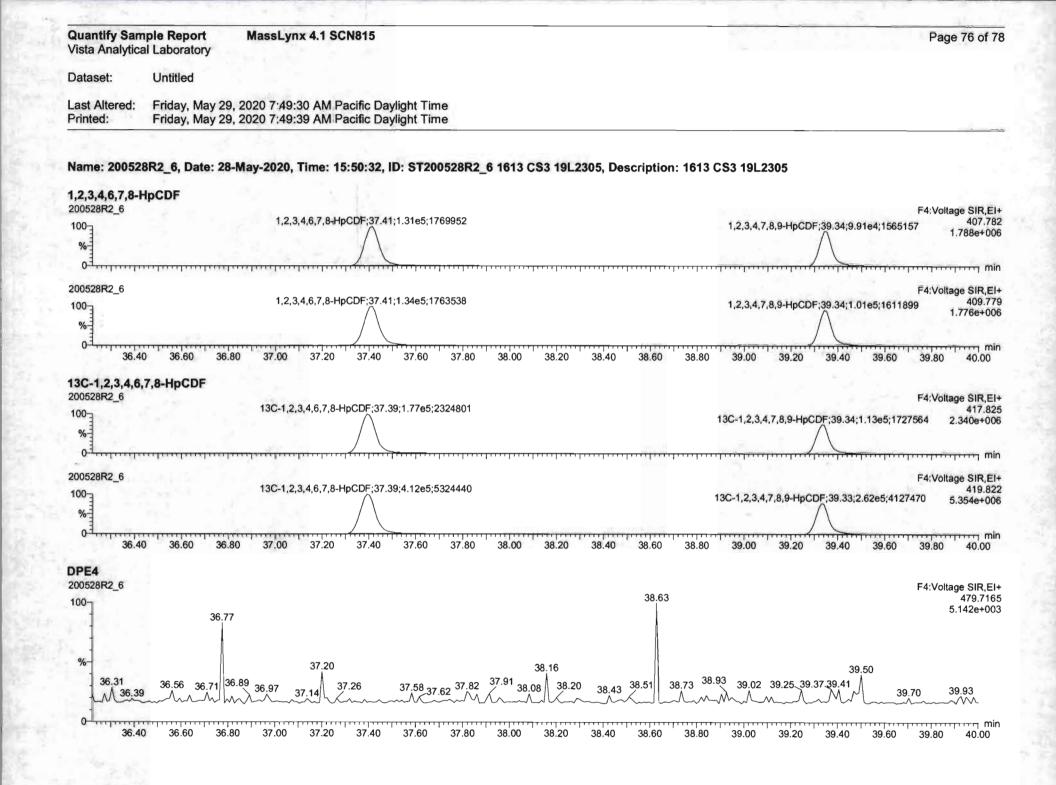


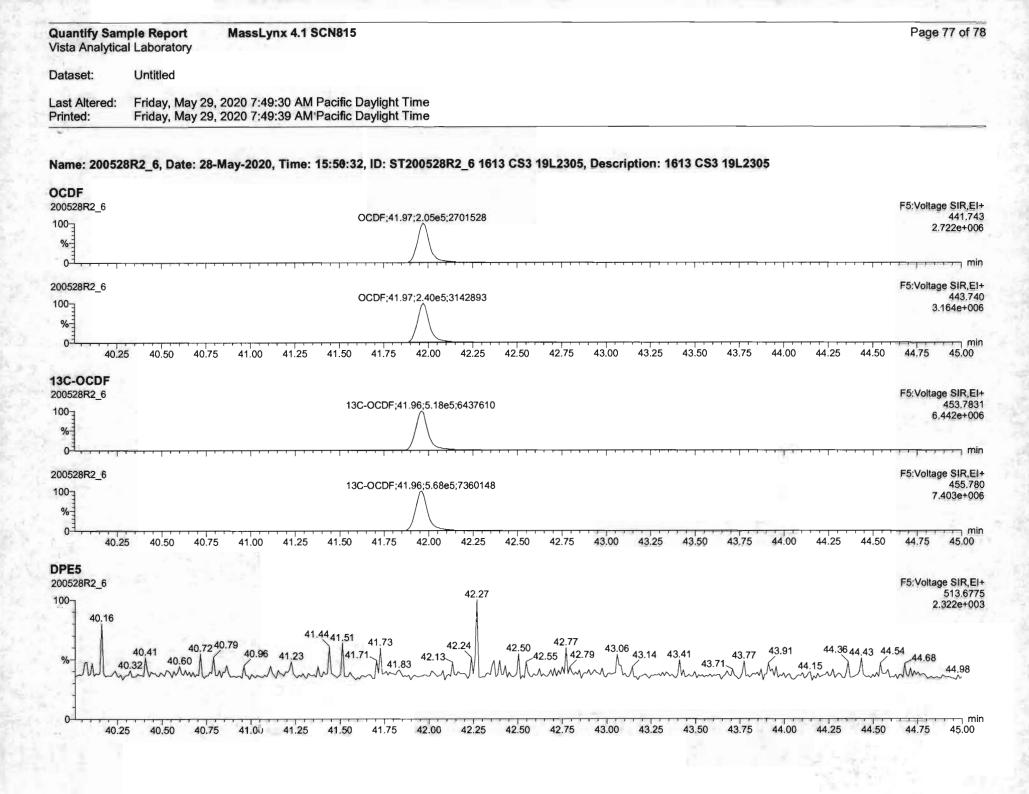
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<b>FK3</b> 00528R2_6 0032.82;5.05 032.82;5.05 032.82;5.05 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.77 032.	e5;3284728	<u>33.25</u> <u>33.61</u> <u>33.71</u> <u>33.20</u> <u>33.40</u> <u>33.60</u>	33.99 33.80 34.00 34.20 34 37.79	34.69 34.85 4.40 34.60 34.80	35.00 35.20	35.32 35.46	32.25 32.50 F3:Voltage SIR, 35.89 380.97 35.89 8.804e+( 35.80 36.00 F4:Voltage SIR, 39.86 430.97
<b>FK3</b> 00528R2_6 0032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05	e5;3284728 80 33.00 96.63;6.97e5;2734	33.25 33.61 33.71 33.20 33.40 33.60 873 37.18	33.99 33.80 34.00 34.20 34 37.79 37.88	34.69 34.85 4.40 34.60 34.80 38.43	35.00 35.20 38.86 39.03	<u>35.32 35.46</u> 35.40 35.60 <u>39.34 <sup>39.48</sup></u>	32.25 32.50 F3:Voltage SIR,I 35.89 380.97 0.8046+0 535.80 36.00 F4:Voltage SIR,I 39.86 430.97 39.86 6.349e+0
<b>FK3</b> 00528R2_6 00328R2_6 0032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 032.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 033.82;5.05 0	e5;3284728 80 33.00 36.63;6.97e5;2734	33.25 33.61 33.71 33.20 33.40 33.60 873 37.18	33.99 33.80 34.00 34.20 34 37.79 37.88	34.69 34.85 4.40 34.60 34.80 38.43	35.00 35.20 38.86 39.03	<u>35.32 35.46</u> 35.40 35.60 <u>39.34 <sup>39.48</sup></u>	32.25 32.50 F3:Voltage SIR,t 35.89 380.97 35.89 8.804e+0 777777777777777777777777777777777777
<b>FK3</b> 00528R2_6 0032.82;5.05 32.82;5.05 32.77 32. <b>FK4</b> 00528R2_6 00 36.24 36.4	e5;3284728 80 33.00 36.63;6.97e5;2734	33.25 33.61 33.71 33.20 33.40 33.60 873 37.18	33.99 33.80 34.00 34.20 34 37.79 37.88	34.69 34.85 4.40 34.60 34.80 38.43	35.00 35.20 38.86 39.03	<u>35.32 35.46</u> 35.40 35.60 <u>39.34 39.48</u>	32.25 32.50 F3:Voltage SIR,E 35.89 8.804e+0 535.80 36.00 F4:Voltage SIR,E 39.86 430.97 39.86 6.340e+0
<b>FK3</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b>	e5;3284728 80 33.00 36.63;6.97e5;2734 0 36.60 3	33.25 33.61 33.71 33.20 33.40 33.60 873 37.18	33.99 33.80 34.00 34.20 34 37.79 37.88	34.69 34.85 4.40 34.60 34.80 38.43	35.00 35.20 38.86 39.03	<u>35.32 35.46</u> 35.40 35.60 <u>39.34 <sup>39.48</sup></u> 9.20 39.40 39.6	32.25 32.50 F3:Voltage SIR,E 35.89 8.804e+0 535.80 36.00 F4:Voltage SIR,E 39.86 430.97 39.86 6.340e+0 50 39.80 40.00
<b>FK3</b> 00528R2_6 0032.82;5.05 32.82;5.05 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77 32.77	e5;3284728 80 33.00 36.63;6.97e5;2734 0 36.60 3 40.48 2.55e5	33.25 33.61 33.71 33.20 33.40 33.60 873 37.18 36.80 37.00 37.20 37.40	33.99 33.80 34.00 34.20 3 37.79 37.88 37.60 37.80 38.00 38	34.69 34.85 4.40 34.60 34.80 38.43 38.43 38.43	35.00 35.20 38.86 39.03 38.80 39.00 39 88.80 39.00 39	<u>35.32 35.46</u> 35.40 35.60 <u>39.34 39.48</u> 9.20 39.40 39.6 44.43 5.15e	32.25 32.50 F3:Voltage SIR,E 35.89 380.97 35.89 380.97 8.804e+0 F4:Voltage SIR,E 39.86 430.97 6.340e+0 F4:Voltage SIR,E 39.86 430.97 6.340e+0 50 39.80 40.00 3 F5:Voltage SIR,E 4 454.97
<b>FK3</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b> <b>5</b>	e5;3284728 80 33.00 36.63;6.97e5;2734 0 36.60 3 40.48	33.25 33.61 33.71 33.20 33.40 33.60 873 37.18	33.99 33.80 34.00 34.20 34 37.79 37.88 37.60 37.80 38.00 38	34.69 34.85 4.40 34.60 34.80 38.43 38.43 38.43	35.00 35.20 38.86 39.03 38.80 39.00 39	<u>35.32 35.46</u> 35.40 35.60 <u>39.34 39.48</u> 9.20 39.40 39.6 44.43 5.15e	32.25 32.50 F3:Voltage SIR,E 35.89 380.97 35.89 380.97 8.804e+0 F4:Voltage SIR,E 39.86 430.97 6.340e+0 F4:Voltage SIR,E 39.86 430.97 6.340e+0 50 39.80 40.00 3 F5:Voltage SIR,E 4 454.97

 Quantify Sample Summary Report
 MassLynx 4.1 SCN815

 Vista Analytical Laboratory
 MassLynx 4.1 SCN815

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

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

GRB 05/29/2020

# Method: U:\VG12.PRO\MethDB\1613rrt-05-26-20.mdb 26 May 2020 10:34:17 Calibration: U:\VG12.PRO\CurveDB\db5\_1613vg12-5-28-20.cdb 28 May 2020 16:52:08

1000	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.24e5	0.78	NO	0.888	1.000	26.575	26.57	1.001	1.001	11.080	111	0.0262	11.1
2	2 1,2,3,7,8-PeCDD	4.57e5	0.62	NO	0.908	1.000	31.518	31.51	1.001	1.000	56.429	113	0.0622	56.4
3	3 1,2,3,4,7,8-HxCDD	3.86e5	1.22	NO	1.03	1.000	34.879	34.88	1.000	1.000	58.033	116	0.101	58.0
4	4 1,2,3,6,7,8-HxCDD	4.35e5	1.22	NO	0.892	1.000	34.975	34.99	1.000	1.000	57.963	116	0.105	58.0
5	5 1,2,3,7,8,9-HxCDD	3.74e5	1.23	NO	0.887	1.000	35.262	35.26	1.000	1.000	57.107	114	0.119	57.1
6	6 1,2,3,4,6,7,8-HpCDD	2.67e5	1.03	NO	0.864	1.000	38.799	38.80	1.000	1.000	55.832	112	0.168	55.8
7	7 OCDD	5.15e5	0.88	NO	0.914	1.000	41.759	41.78	1.000	1.001	111.26	111	0.171	111
8	8 2,3,7,8-TCDF	1.48e5	0.75	NO	0.751	1.000	25.671	25.68	1.001	1.001	11.386	114	0.0333	11.4
9	9 1,2,3,7,8-PeCDF	6.72e5	1.54	NO	0.893	1.000	30.236	30.23	1.001	1.001	55.728	111	0.0942	55.7
10	10 2,3,4,7,8-PeCDF	7.50e5	1.54	NO	0.935	1.000	31.222	31.21	1.001	1.000	60.229	120	0.0851	60.2
11	11 1,2,3,4,7,8-HxCDF	4.21e5	1.20	NO	0.884	1.000	33.984	33.99	1.000	1.000	55.936	112	0.113	55.9
12	12 1,2,3,6,7,8-HxCDF	5.08e5	1.18	NO	0.889	1.000	34.122	34.12	1.000	1.000	56.761	114	0.107	56.8
13	13 2,3,4,6,7,8-HxCDF	4.49e5	1.21	NO	0.934	1.000	34.732	34.71	1.001	1.000	56.468	113	0.117	56.5
14	14 1,2,3,7,8,9-HxCDF	3.53e5	1.18	NO	0.871	1.000	35.614	35.62	1.000	1.000	55.299	111	0.174	55.3
15	15 1,2,3,4,6,7,8-HpCDF	3.01e5	1.01	NO	0.873	1.000	37.430	37.40	1.001	1.000	54.506	109	0.182	54.5
16	16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.01	1.000	39.331	39.34	1.000	1.000	57.740	115	0.198	57.7
17	17 OCDF	5.22e5	0.87	NO	0.806	1.000	41.951	41.96	1.000	1.000	113.77	114	0.201	114
18	18 13C-2,3,7,8-TCDD	1.26e6	0.79	NO	1.16	1.000	26.584	26.54	1.026	1.025	91.859	91.9	0.0837	
19	19 13C-1,2,3,7,8-PeCDD	8.92e5	0.64	NO	0.849	1.000	31.784	31.50	1.227	1.216	88.503	88.5	0.117	-
20	20 13C-1,2,3,4,7,8-HxCDD	6.43e5	1.29	NO	0.779	1.000	34.874	34.87	1.014	1.014	88.587	88.6	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.41e5	1.26	NO	1.02	1.000	34.987	34.97	1.017	1.017	88.739	88.7	0.138	
22	22 13C-1,2,3,7,8,9-HxCDD	7.39e5	1.24	NO	0.903	1.000	35.259	35.25	1.025	1.025	87.785	87.8	0.155	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.53e5	1.04	NO	0.689	1.000	38.787	38.79	1.128	1.128	86.116	86.1	0.160	
24	24 13C-OCDD	1.01e6	0.89	NO	0.652	1.000	41.813	41.76	1.216	1.214	166.64	83.3	0.212	
25	25 13C-2,3,7,8-TCDF	1.73e6	0.77	NO	1.06	1.000	25.623	25.65	0.989	0.990	90.815	90.8	0.116	
26	26 13C-1,2,3,7,8-PeCDF	1.35e6	1.61	NO	0.838	1.000	30.163	30.21	1.165	1.167	89.693	89.7	0.169	
27	27 13C-2,3,4,7,8-PeCDF	1.33e6	1.57	NO	0.817	1.000	31.119	31.19	1.202	1.204	90.666	90.7	0.174	
28	28 13C-1,2,3,4,7,8-HxCDF	8.51e5	0.51	NO	1.01	1.000	34.004	33.98	0.989	0.988	90.589	90.6	0.222	
29	29 13C-1,2,3,6,7,8-HxCDF	1.01e6	0.51	NO	1.17	1.000	34.127	34.11	0.992	0.992	92.509	92.5	0.191	
30	30 13C-2,3,4,6,7,8-HxCDF	8.50e5	0.51	NO	1.02	1.000	34.702	34.70	1.009	1.009	89.276	89.3	0.219	
31	31 13C-1,2,3,7,8,9-HxCDF	7.33e5	0.50	NO	0.860	1.000	35.603	35.61	1.035	1.036	91.476	91.5	0.260	

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

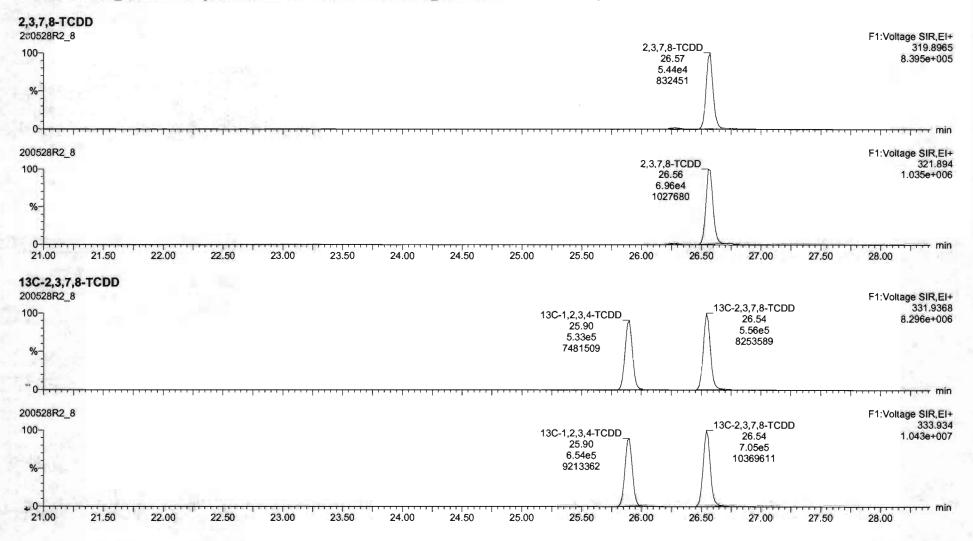
# Dataset: U:\VG12.PRO\Results\200528R2\200528R2-8.qld

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The state	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.33e5	0.43	NO	0.774	1.000	37.353	37.39	1.086	1.087	87.682	87.7	0.235	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	0.42	NO	0.521	1.000	39.386	39.33	1.145	1.144	83.716	83.7	0.350	
34	34 13C-OCDF	1.14e6	0.88	NO	0.746	1.000	41.985	41.95	1.221	1.220	163.83	81.9	0.148	
35	35 37CI-2,3,7,8-TCDD	1.28e5			1.04	1.000	26.615	26.57	1.028	1.026	10.416	104	0.0149	
36	36 13C-1,2,3,4-TCDD	1.19e6	0.81	NO	1.00	1.000	26.000	25.90	1.000	1.000	100.00	100	0.0967	
37	37 13C-1,2,3,4-TCDF	1.80e6	0.79	NO	1.00	1.000	24.360	24.22	1.000	1.000	100.00	100	0.123	
38	38 13C-1,2,3,4,6,9-HxCDF	9.32e5	0.51	NO	1.00	1.000	34.420	34.39	1.000	1.000	100.00	100	0.223	

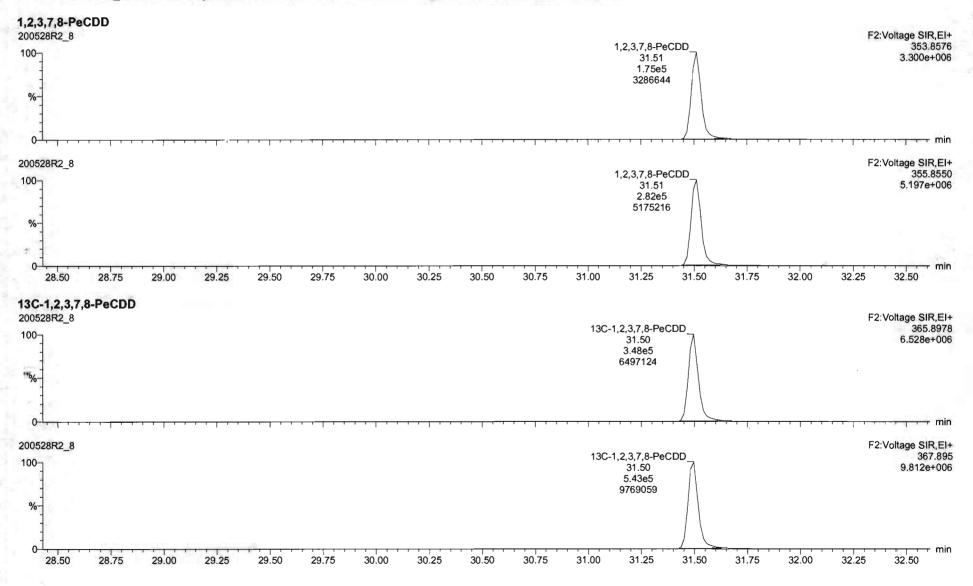
Quantify San Vista Analytica		Page 1 of 13
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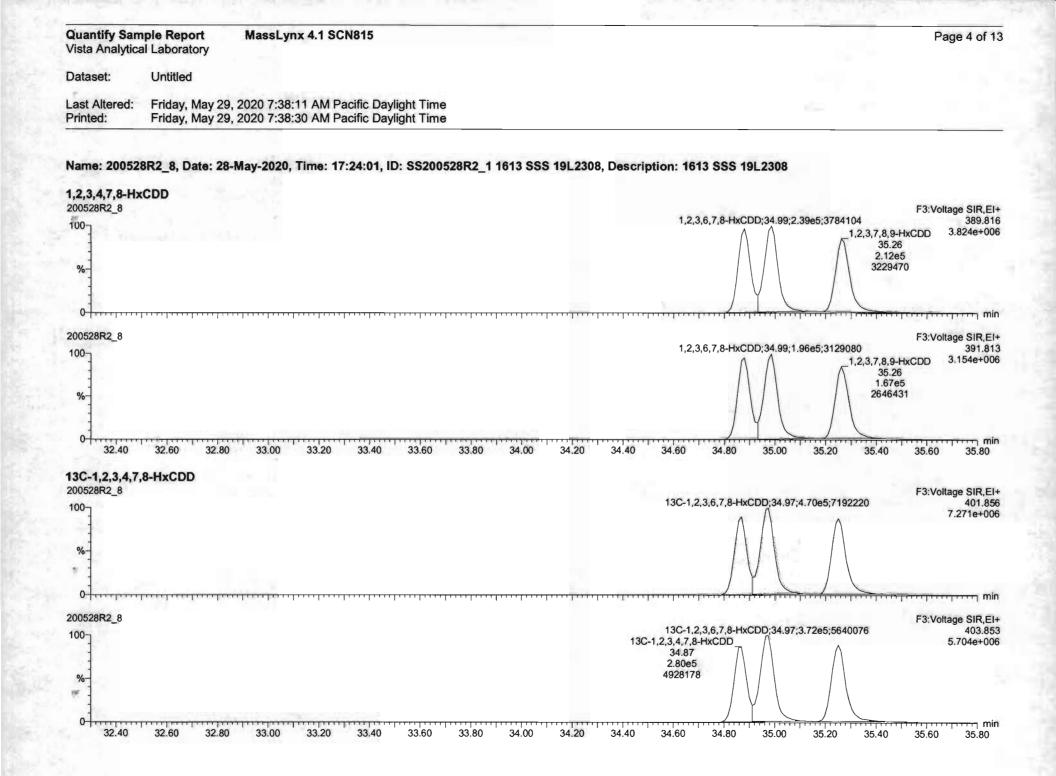
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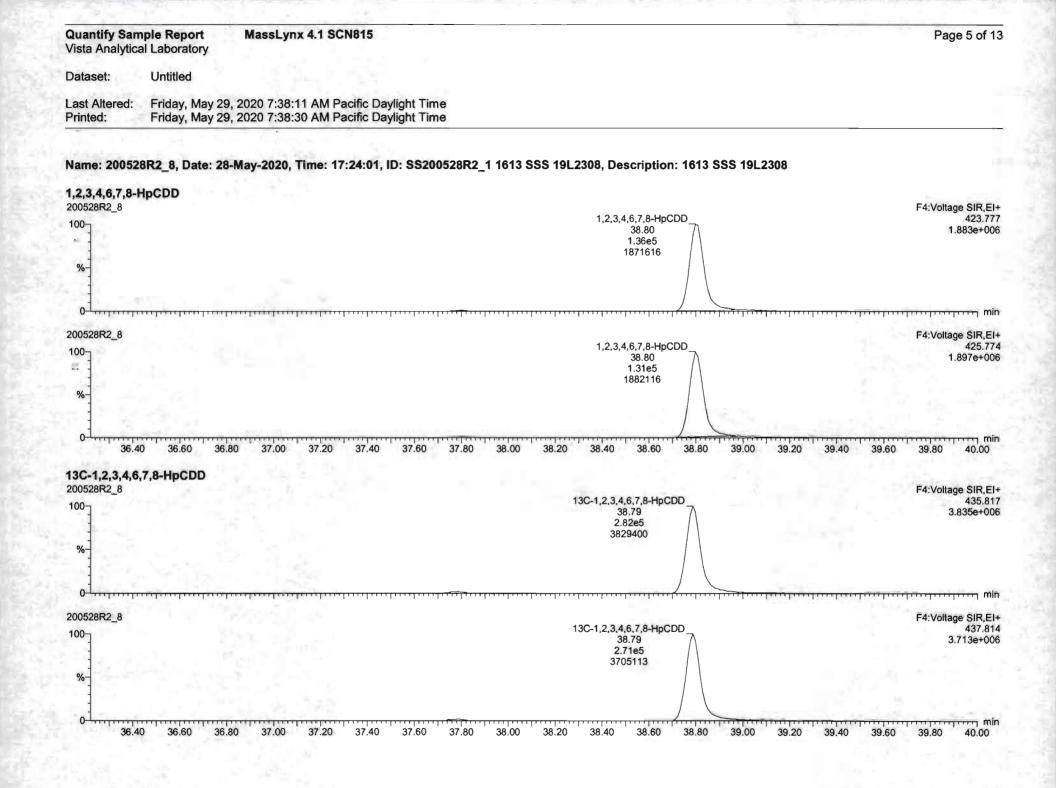
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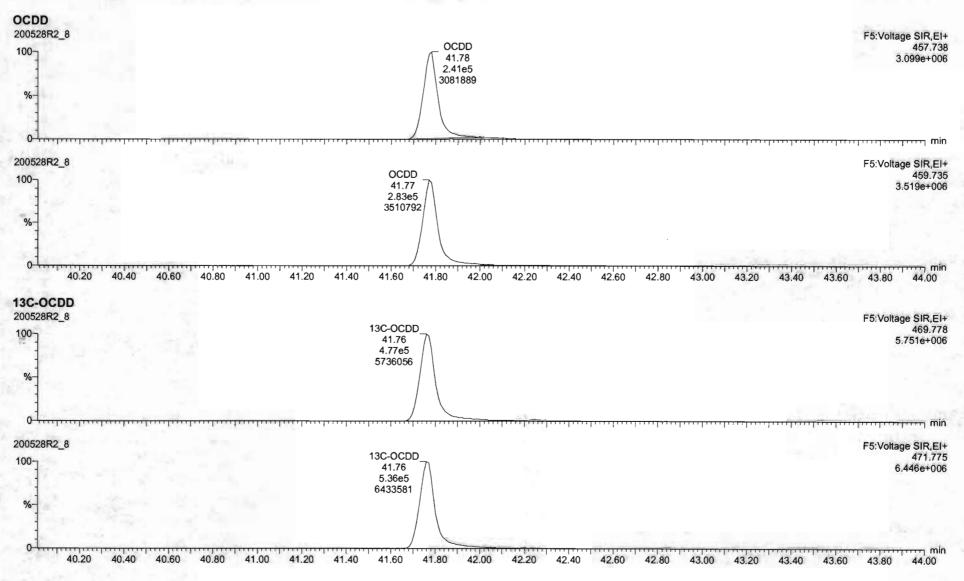


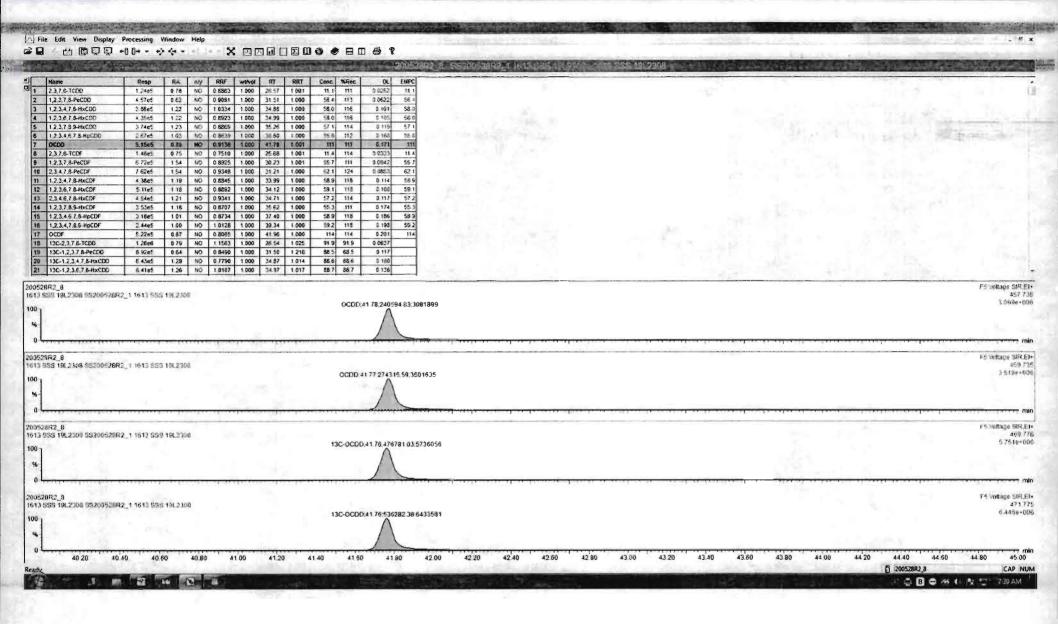


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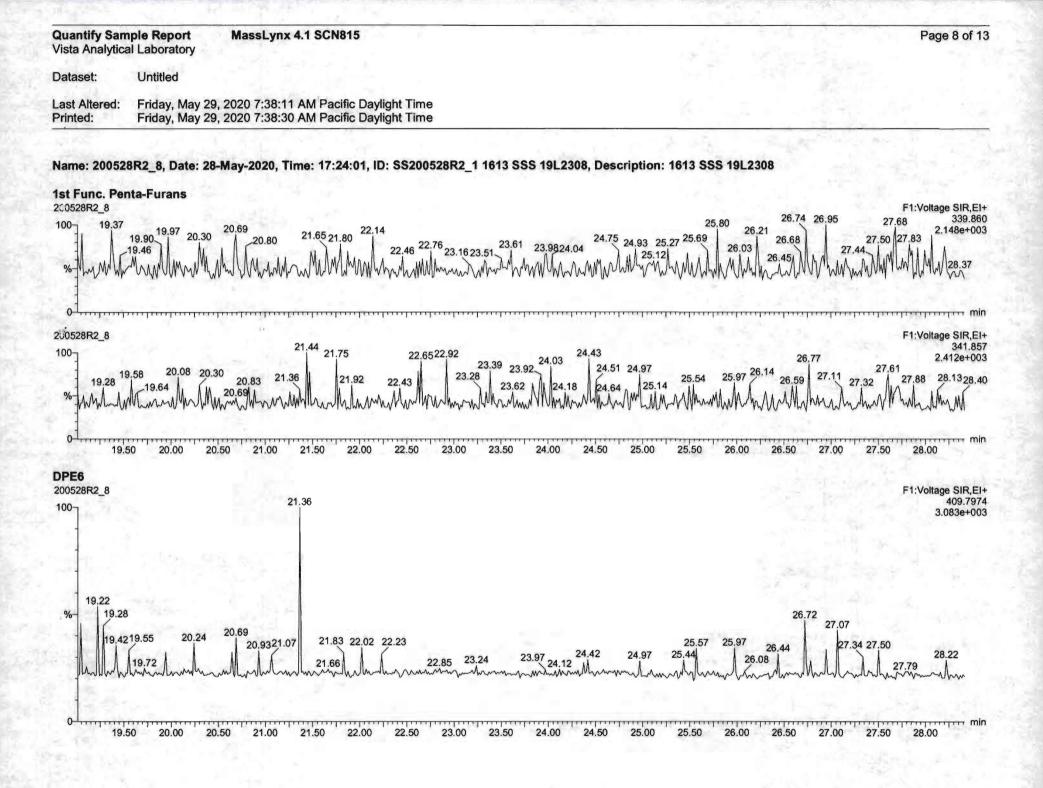


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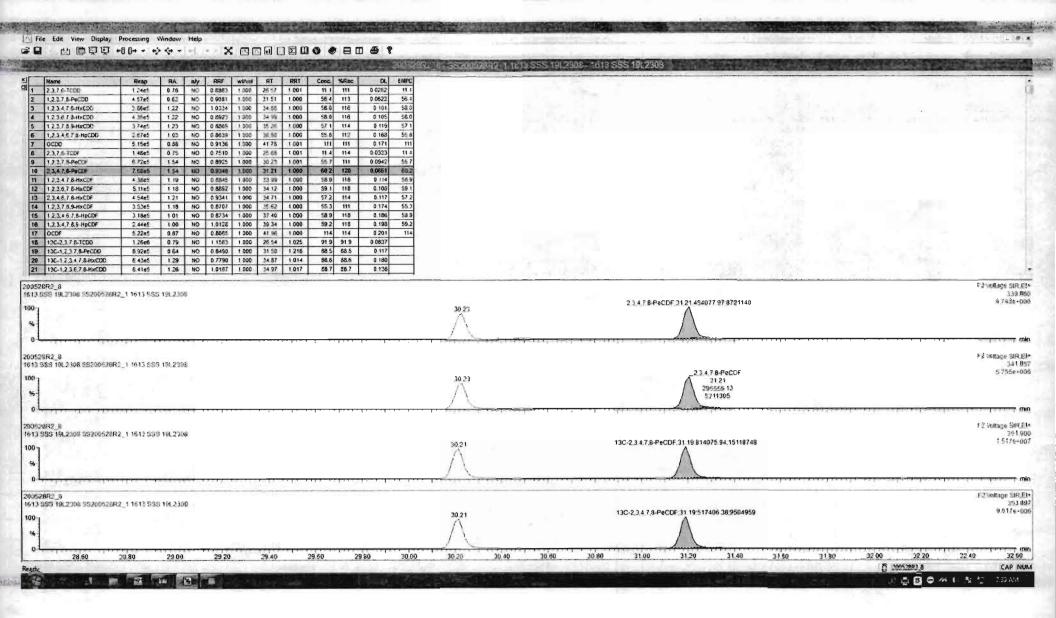


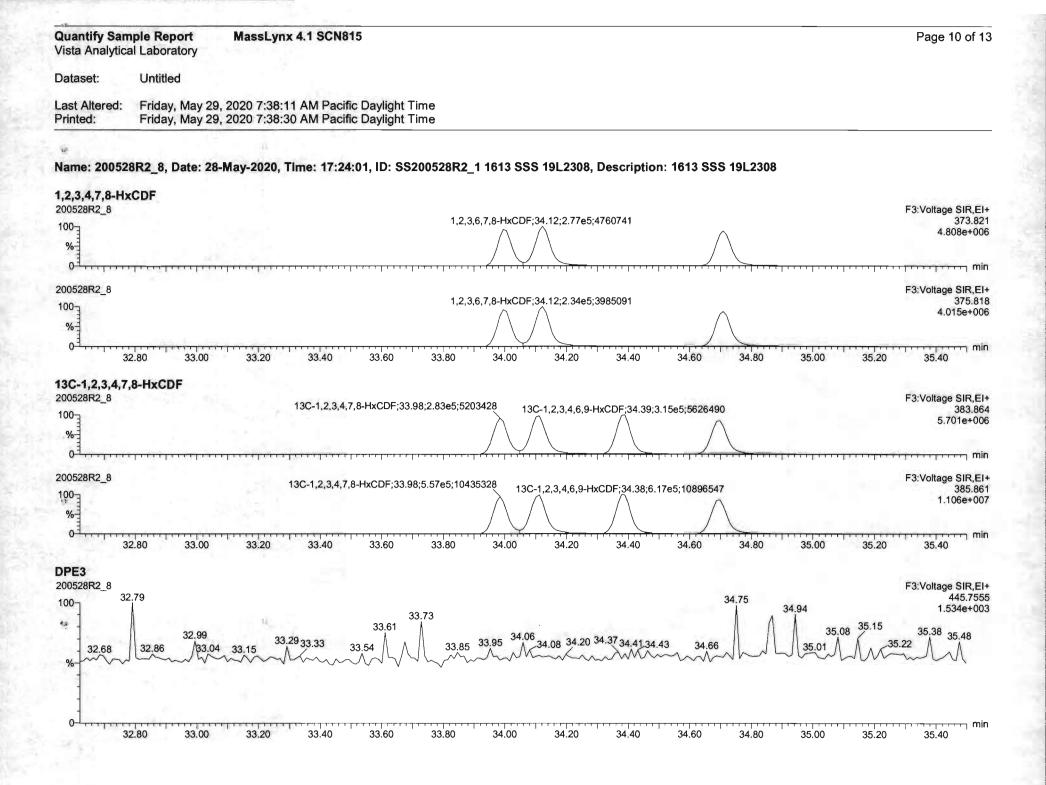
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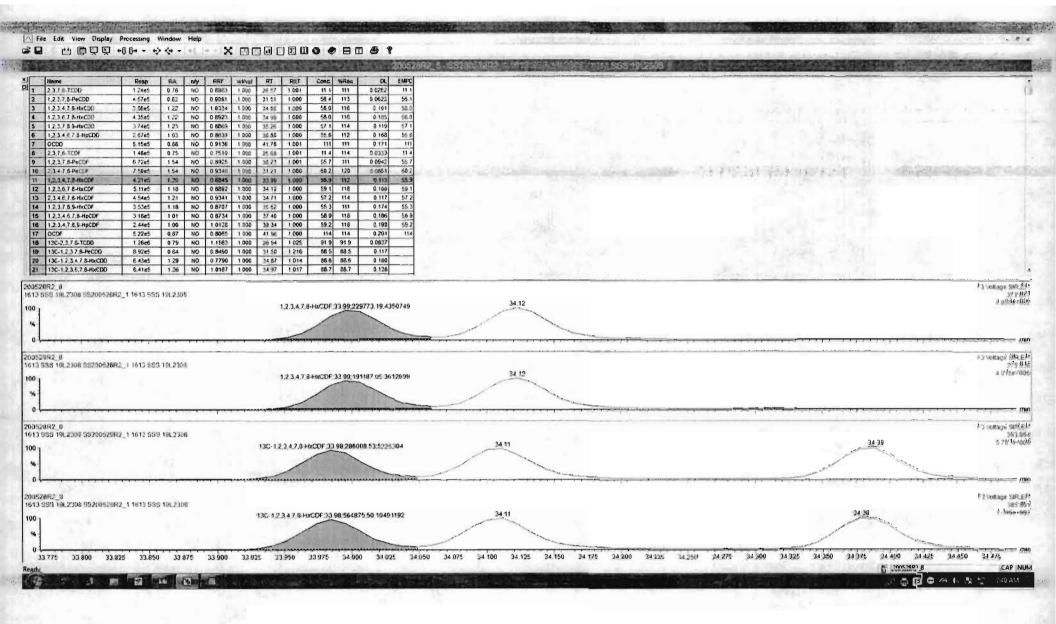


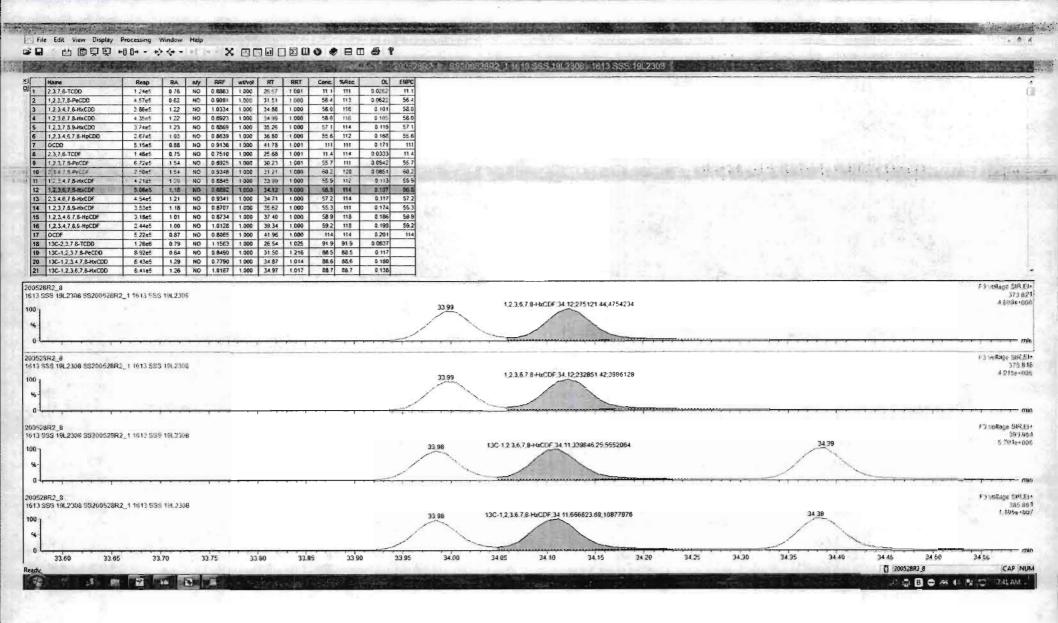
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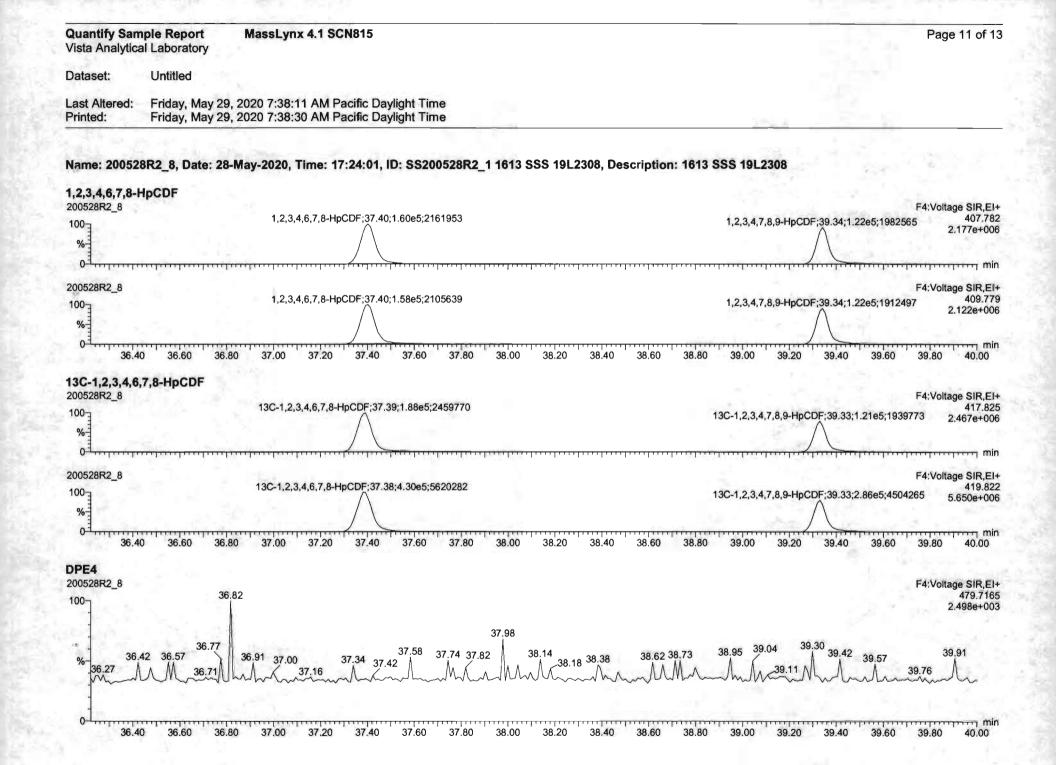


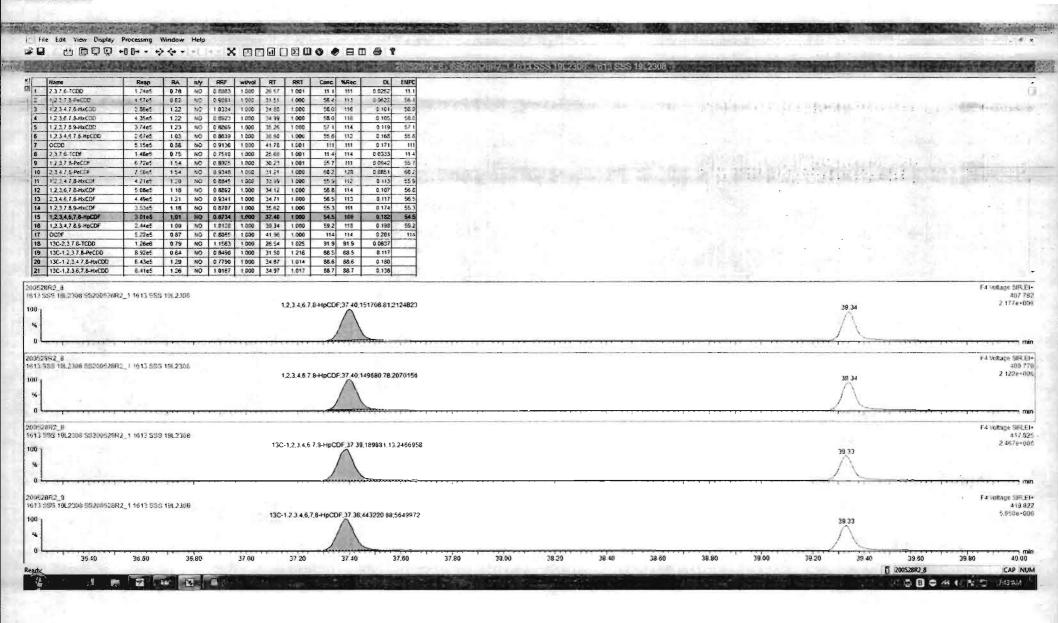


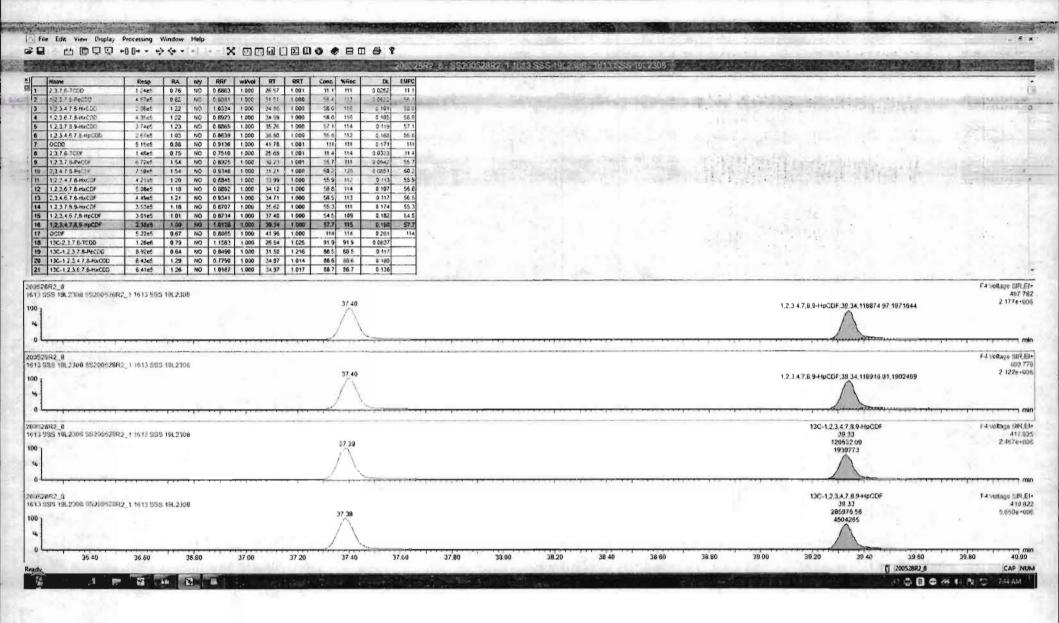


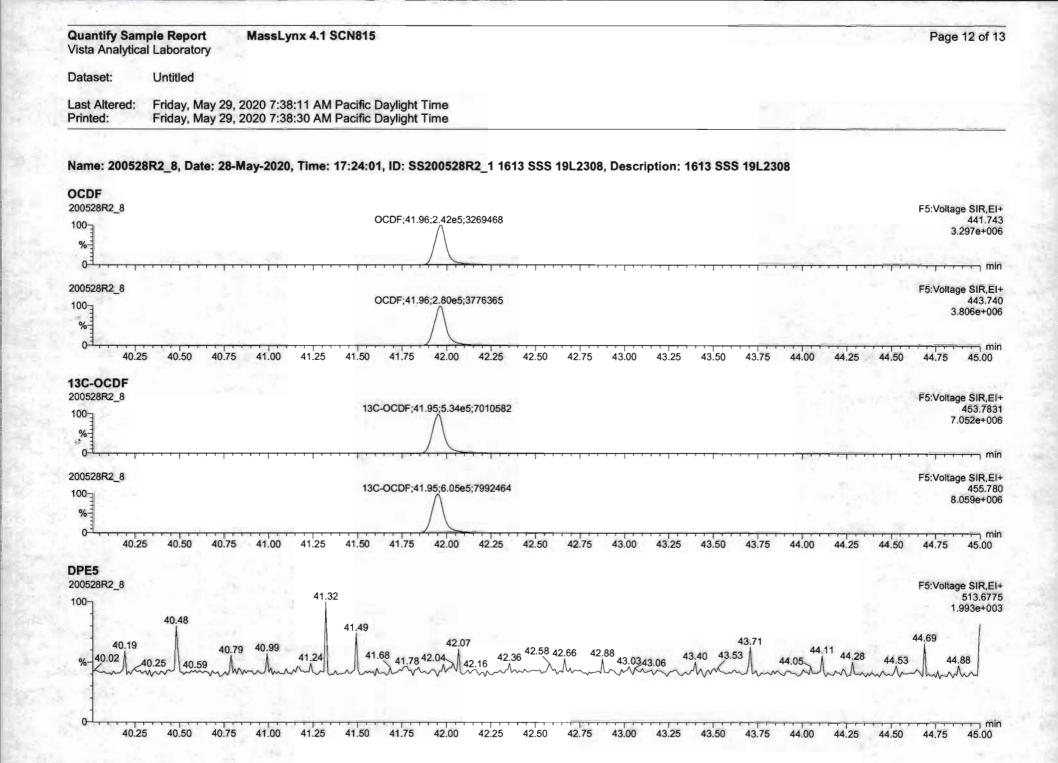


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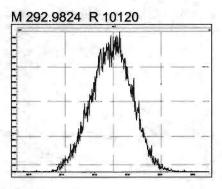
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<b>K3</b> 132.63	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 30.75 31.00 31.25 31.50 31.75 32.00 32.25 32.50 F3:Voltage S 33.71;1.68e5;1568872 34.44:1.49e5:1167734 24.72 55.50 55.50 30.75 38.00 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50 55.50
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<b>K3</b> 0 32.63 32.63 <b>K4</b> 0 0 <b>K4</b> 0 36.22 36.4	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 30.75 31.00 31.25 31.50 31.75 32.00 32.25 32.50 33.12;8.10e5;3029193 33.71;1.68e5;1568872 34.44;1.49e5;1167734 34.72 35.11 35.54 35.85 8.683 80 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60 35.80 3 36.73;6.18e5;2379396 37.17 37.55 37.84 38.28 38.40 38.55 38.87;3.35e4;428701 39.35;2.18e5;1332689 39.60 F4:Voltage S 43.60 38.28 38.40 38.55 38.87;3.35e4;428701 39.35;2.18e5;1332689 39.60 F4:Voltage S 43.60 38.28 38.40 38.55 38.87;3.35e4;428701 39.35;2.18e5;1332689 39.60 F4:Voltage S 39.35;2.18e5;1332689 39.60 F4:Voltage S 39.35;2.18e5;1332689 39.60 F4:Voltage S 43.60 38.28 38.40 38.55 38.87;3.35e4;428701 39.35;2.18e5;1332689 39.60 F4:Voltage S 39.35;2.18e5;1332689 39.60 F4:Voltage S 43.60 38.28 38.40 38.55 38.87;3.35e4;428701 39.35;2.18e5;1332689 39.60 F4:Voltage S 43.60 38.60 38.80 38.55 38.87;3.35e4;428701 39.35;2.18e5;1332689 39.60 F4:Voltage S 43.60 38.60 38.80 38.55 38.87;3.35e4;428701 39.35;2.18e5;1332689 39.60 F4:Voltage S 43.60 38.60 38.55 38.87;3.35e4;428701 39.35;2.18e5;1332689 39.60 F4:Voltage S 43.60 38.60 38.65 38.87;3.35e4;428701 39.55;2.18e5;1332689 39.60 F4:Voltage S 43.60 38.60 38.65 38.87;3.35e4;428701 39.55;2.18e5;1332689 39.60 F4:Voltage S 43.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 54.80 53.60 53.60 53.60 53.60 53.60 54.80 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.60 53.
28.50 <b>K3</b> 0528R2_8 0 32.63 0 32.63 <b>K4</b> 0528R2_8 0 32. <b>K4</b> 0528R2_8 0 32. <b>K4</b> 0 32. <b>K3</b> 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 35.22 0 36.42 0 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 36.42 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.44 37.	28.75 29.00 29.25 29.50 29.75 30.00 30.25 30.50 30.75 31.00 31.25 31.50 31.75 32.00 32.25 32.50 33.12;8.10e5;3029193 33.71;1.68e5;1568872 34.44;1.49e5;1167734 34.72 35.11 35.54 35.85 8.683 800 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60 35.80 3 800 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60 35.80 3 800 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60 35.80 3 800 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60 35.80 3 800 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 35.40 35.60 35.80 3 800 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 34.80 35.00 35.20 35.40 35.60 35.80 3 800 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 34.80 35.00 35.20 35.40 35.60 35.80 3 800 33.00 33.20 33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 34.80 35.00 35.20 35.40 35.60 35.80 3 90 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 4
<b>K3</b> 0528R2_8 0 32.63 6 <b>K4</b> 0528R2_8 0 32.63 6 <b>K4</b> 0528R2_8 0 36.42 <b>K5</b> 0528R2_8	28.75  29.00  29.25  29.50  29.75  30.00  30.25  30.50  30.75  31.00  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.10  53.10  31.25  31.50  31.75  32.00  32.25  32.50  53.10  33.10  33.125  31.50  31.75  32.00  32.25  32.50  53.10  31.75  32.00  32.25  32.50  53.10  31.25  31.50  31.75  32.00  32.25  32.50  53.10  31.75  32.00  32.25  32.50  33.10  33.10  33.10  33.10  33.10  33.10  34.44  34.60  34.80  35.00  35.20  35.40  35.60  35.80  3
<b>K3</b> 28.50 <b>K3</b> 0528R2_8 0 32.63 <b>K4</b> 0528R2_8 0 36.42 <b>K5</b> 0528R2_8 0 36.4 <b>K5</b> 0528R2_8 0 36.4 <b>K5</b> 0528R2_8	28.75       29.00       29.25       29.25       29.50       29.75       30.00       30.25       30.50       30.75       31.00       31.25       31.50       31.75       32.00       32.25       32.50         F3:Voltage S         33.12:8.10e5;3029193       33.71;1.68e5;1568872       34.44;1.49e5;1167734       34.72       35.11       35.54       35.85       8.683         0       33.00       33.40       33.60       34.00       34.20       34.40       34.60       34.80       35.00       35.20       35.40       35.60       35.80       3         5.73:618e5;2379396       37.17       37.55       37.84       38.28       38.40       38.55       38.87;3.35e4;428701       39.35;2.18e5;1332689       39.60       43.43         0       36.60       37.00       37.20       37.40       37.60       37.80       38.00       38.20       38.40       38.60       38.80       39.00       39.20       39.40       39.60       39.80       43.60         0       36.60       36.80       37.00       37.40       37.60       37.80       38.20       38.40       38.60       38.80       39.00       39.40
<b>K3</b> 28.50 <b>K3</b> 0528R2_8 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 32.63 0 33.63 0 36.22 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.42 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.44 0 36.4	28.75  29.00  29.25  29.50  29.75  30.00  30.25  30.50  30.75  31.00  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.100  31.25  31.50  31.75  32.00  32.25  32.50  53.10  53.10  31.25  31.50  31.75  32.00  32.25  32.50  53.10  33.10  33.125  31.50  31.75  32.00  32.25  32.50  53.10  31.75  32.00  32.25  32.50  53.10  31.25  31.50  31.75  32.00  32.25  32.50  53.10  31.75  32.00  32.25  32.50  33.10  33.10  33.10  33.10  33.10  33.10  34.44  34.60  34.80  35.00  35.20  35.40  35.60  35.80  3

#### MassLynx 4.1 SCN815

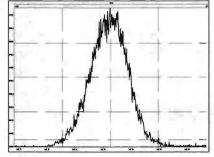
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File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

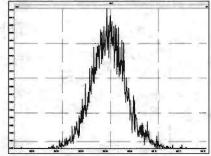
Printed: Friday, May 29, 2020 07:19:01 Pacific Daylight Time

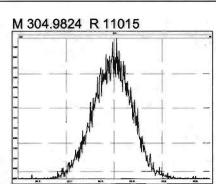


M 342.9792 R 11107

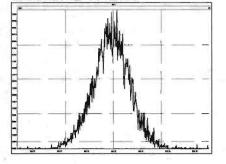


M 392.9760 R 13589

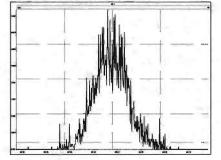


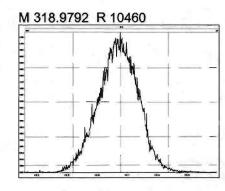


M 354.9792 R 12193

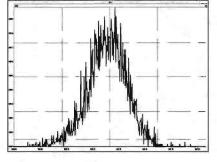


M 404.9760 R 14045

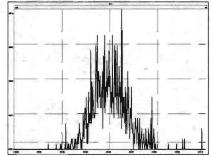


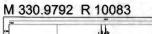


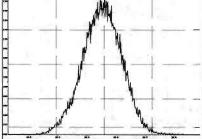




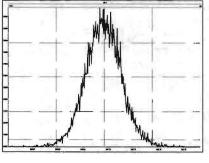
# M 416.9760 R 18245







M 380.9760 R 11904

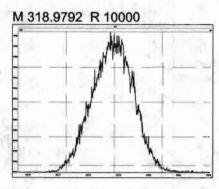


#### MassLynx 4.1 SCN815

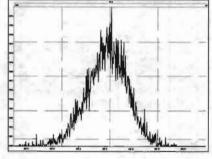
Page 1 of 1

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

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

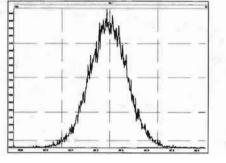


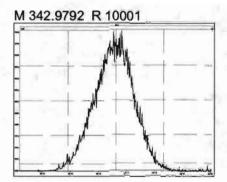
M 366.9792 R 11015



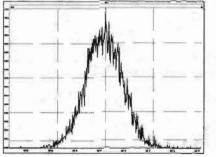
# M 330.9792 R 10372

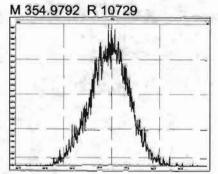
M 380.9760 R 11009



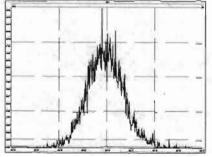


M 392.9760 R 11735

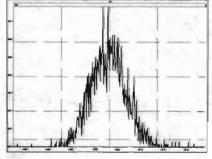




M 404.9760 R 12196



# M 416.9760 R 14968

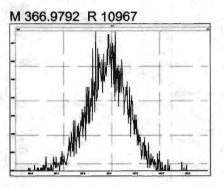


# MassLynx 4.1 SCN815

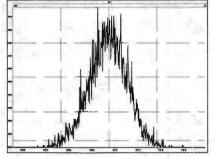
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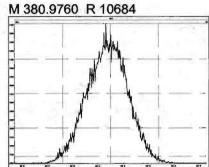
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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

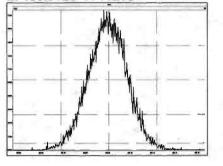


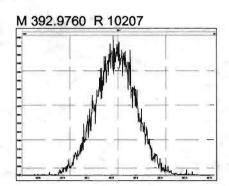
M 416.9760 R 11160

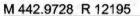


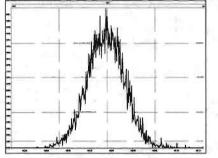


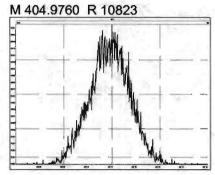
M 430.9728 R 11208



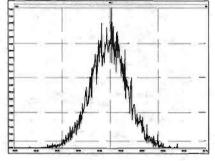








M 454.9728 R 10963

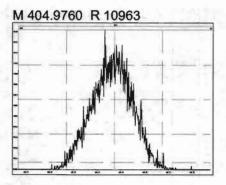


# MassLynx 4.1 SCN815

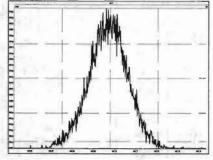
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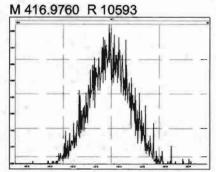
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

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

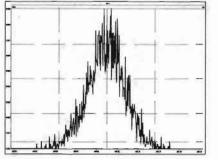


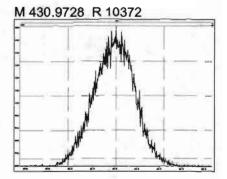
M 454.9728 R 11792





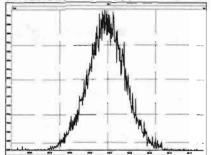
M 466.9728 R 12628





M 442.9728 R 10727

M 480.9696 R 11111

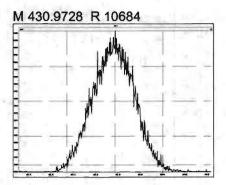


#### MassLynx 4.1 SCN815

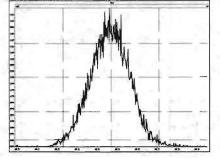
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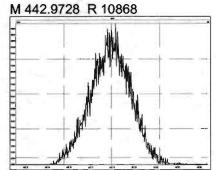
File: Experiment: OCDD\_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

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

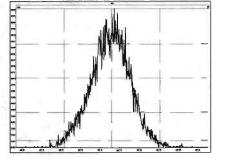


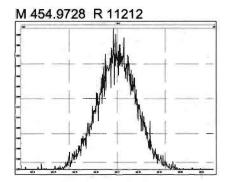
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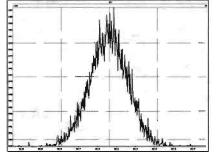


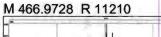
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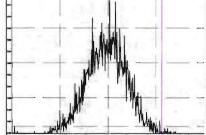




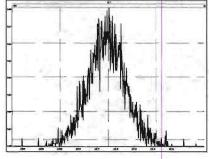
M 504.9696 R 11681











1.4