CFA | Cape Fear Analytical LLC
an affiliate of The GEL Group INC

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
P 910.795.0421
www.capefearanalytical.com

June 28, 2023

Mr. Alan Sprott
Vigor Industrial, LLC
5555 North Channel Avenue
Portland, Oregon 97217

Re: Swan Island Basin Portland Harbor
Work Order: 21400

Dear Mr. Sprott:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 29, 2023. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,

Cynde Larkins

Cynde Larkins
Project Manager

Enclosures

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Kurt Clarkson

Project Number: K2302917
Project Manager: Kurt Clarkson
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	~~PCB 8082A~~ Relinquish
K2302917-001	SIB-SW-WR198-030923	1-1L	Storm Water	3/9/23	1605	~~ARI~~ Cape Fear	X
K2302917-002	SIB-SW-WR186-030923	2-1L	Storm Water	3/9/23	1626	~~ARI~~	X
K2302917-003	SIB-SW-WR15-030923	2-1L	Storm Water	3/9/23	1632	~~ARI~~	X
K2302917-004	SIB-SW-WR428-030923	1-1L	Storm Water	3/9/23	1820	~~ARI~~	X
K2302917-005	SIB-SW-WR71-030923	1-1L	Storm Water	3/9/23	1750	~~ARI~~	X
K2302917-006	SIB-SW-WR30-030923	1-1L	Storm Water	3/9/23	1653	~~ARI~~	X

CFA WO # 21400

~~WO # 21309~~ CK 31MAR23

Folder Comments: KC 3/27
~~samples 001 thru 006 Centrifuge~~ prior to analysis

Samples -002 & -003 - relinquish 2-1L glass containers per sample

Samples 001, 004, 005, 006 - relinquish 1-1L glass container per sample

CFA temp. = 4.1°C

Special Instructions/Comments Relinquish
Please provide the electronic (PDF and EDD) report to the following e-mail address:
~~ALKLS.Data@alsglobal.com.~~

Hgl contacts
Andrea Fletcher: AFletcher@HGL.com
Linda Nyland: lnyland@HGL.com

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements
____ **RUSH** (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
____ **STANDARD**
Requested FAX Date: _____
Requested Report Date: 04/12/23

Report Requirements
____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD Y

Invoice Information
PO# 51K2302917
Bill to

Relinquished By: 3/28/23 Received By: 3/29/23 12:31 Airbill Number:

K2302917

WO #21400

X **Ship To: Cape Fear Analytical**
Cape Fear Analytical
3306 Kitty Hawk Rd
Suite 120
Wilmington, NC 28405

PC CC Date 3/27
SMO Date 3/28

Instructions:
Ice X
Dry Ice
No Ice

Shipping:
Overnight X
2nd Day
Ground

Bill to Client Account

Comments:

SAMPLE RECEIPT CHECKLIST

Cape Fear Analytical

21400

Client: ALS	Work Order: ~~21309~~
Shipping Company: Fedex	Date/Time Received: 3/29/23 10:31

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?			✓
Samples identified as Foreign Soil?			✓

DOE Site Sample Packages	Yes	NA	No*
Screened <0.5 mR/hr?		✓	
Samples < 2x background?		✓	

* Notify RSO of any responses in this column immediately.

Air Sample Receipt Specifics	Yes	NA	No
Air sample in shipment?			✓

Air Witness: _____

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other(describe)
2	Custody seal/s present on cooler?	✓			Seal intact? (Yes) No
3	Chain of Custody documents included with shipment?	✓			
4	Samples requiring cold preservation within 0-6°C?	✓			Preservation Method: ice bags loose ice blue ice dry ice none (other) (describe) frozen ice packs 4.1 + 0.0 = 4.10 (temp blank) Temperature Blank present: (Yes) No
5	Aqueous samples found to have visible solids?	✓			Sample IDs, containers affected: all liquid solids
5	Samples requiring chemical preservation at proper pH?	✓			Sample IDs, containers affected and pH observed: all - pH = 7 If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	✓			Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	✓			Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	✓			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?			✓	Sample IDs, containers affected: No date or time on sample labels
11	Number of containers received match number indicated on COC?	✓			List type and number of containers / Sample IDs, containers affected: received 8-1L N containers
12	COC form is properly signed in relinquished/received sections?	✓			

Comments:

Checklist performed by: Initials: NO Date: 3/29/23

CF-UD-F-7

Cape Fear Analytical LLC - Login Review Report - Chain of Custody

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
(910) 795 - 0421 (Phone) ~ www.cfanalytical.com

CFA Work Order:	21400 1613B Water	**Work Order Due Date:**	28-MAY-23	**Collector:**	G
SDG:	21400	**Package Due Date:**	25-MAY-23	**Prelogin #:**	20230362659
Project Manager:	Cynde Larkins	**EDD Due Date:**	28-MAY-23	**Project ID:**	1224519
Project Name:	HYGL00122			**SDG Status:**	Closed
	Swan Island Basin Portland Harbor			**Logged By:**	CGL
Purchase Order:				**Project Type:**	HRMS
Package Level:	LEVEL6				
EDD Name:	EQEDD_HGL	**Days to Process:**	60		

Prelogin Group	QC Requirements	CFA Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	PM Comments?
1		21400001	SIB-SC-WR198-030923	1613B Water	09-MAR-23 16:05	29-MAR-23 12:31	WATER		1	
1		21400002	SIB-SC-WR186-030923	1613B Water	09-MAR-23 16:26	29-MAR-23 12:31	WATER		1	
1		21400003	SIB-SC-WR15-030923	1613B Water	09-MAR-23 16:32	29-MAR-23 12:31	WATER		1	
1		21400004	SIB-SC-WR428-030923	1613B Water	09-MAR-23 18:20	29-MAR-23 12:31	WATER		1	
1		21400005	SIB-SC-WR71-030923	1613B Water	09-MAR-23 17:50	29-MAR-23 12:31	WATER		1	
1		21400006	SIB-SC-WR30-030923	1613B Water	09-MAR-23 16:53	29-MAR-23 12:31	WATER		1	

High Resolution Dioxins and Furans Analysis

Case Narrative

HDOX Case Narrative
HydroGeoLogic, Incorporated (HYGL)
SDG 21400

Method/Analysis Information

Product:	**Dioxins/Furans by EPA Method 1613B in Liquids**
Analytical Method:	EPA Method 1613B
Extraction Method:	SW846 3520C
Analytical Batch Number:	52698
Clean Up Batch Number:	52696
Extraction Batch Number:	52695

Sample Analysis

Samples were received within temperature requirements at 4.1°C (21400001, 21400002, 21400003, 21400004, 21400005, 21400006). The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12034325	Method Blank (MB)
12034326	Laboratory Control Sample (LCS)
12034327	Laboratory Control Sample Duplicate (LCSD)
21400001	SIB-SW-WR198-030923
21400002	SIB-SW-WR186-030923
21400003	SIB-SW-WR15-030923
21400004	SIB-SW-WR428-030923
21400005	SIB-SW-WR71-030923
21400006	SIB-SW-WR30-030923

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 21.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CVS) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement
The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement
The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery
The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement
The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation
A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Holding Time Specifications
CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Manual Integrations

Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP722_2	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report
for

HYGL001 HydroGeoLogic, Incorporated

Client SDG: 21400 CFA Work Order: 21400

The Qualifiers in this report are defined as follows:

*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
B	The target analyte was detected in the associated blank.
H	Analytical holding time was exceeded
J	Value is estimated
K	Estimated Maximum Possible Concentration
U	Analyte was analyzed for, but not detected above the specified detection limit.

DL	Indicates that sample is diluted.
RA	Indicates that sample is re-analyzed without re-extraction.
RE	Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: **Name: Alexis Finks**

Date: 28 JUN 2023 **Title: Data Validator**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400001**	**Date Collected:**	**03/09/2023 16:05**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR198-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 03:47**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-9**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**999.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.14	pg/L	2.14	5.00
40321-76-4	1,2,3,7,8-PeCDD	U	2.30	pg/L	2.30	25.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.76	pg/L	2.76	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.64	pg/L	2.64	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.70	pg/L	2.70	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	8.35	pg/L	5.46	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJK	26.8	pg/L	12.4	100
51207-31-9	2,3,7,8-TCDF	U	2.18	pg/L	2.18	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	2.38	pg/L	2.38	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	2.30	pg/L	2.30	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.44	pg/L	1.44	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.40	pg/L	1.40	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.55	pg/L	1.55	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.54	pg/L	2.54	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	5.60	pg/L	5.60	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	8.51	pg/L	8.51	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.08	pg/L	4.08	100
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.14	pg/L	2.14	10.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.30	pg/L	2.30	50.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.64	pg/L	2.64	50.0
TCDF	Total Tetrachlorodibenzofuran	U	2.18	pg/L	2.18	10.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	15.0	pg/L	5.46	50.0
30402-15-4	Total Pentachlorodibenzofuran	U	2.30	pg/L	2.30	50.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.40	pg/L	1.40	50.0
38998-75-3	Total Heptachlorodibenzofuran	U	5.60	pg/L	5.60	50.0
TEQ	TEQ WHO2005 ND=0		0.0915	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.63	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1220	2000	pg/L	61.1	(25%-164%)
13C-1,2,3,7,8-PeCDD		1480	2000	pg/L	73.8	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1490	2000	pg/L	74.2	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1390	2000	pg/L	69.4	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1420	2000	pg/L	71.2	(23%-140%)
13C-OCDD		2370	4000	pg/L	59.3	(17%-157%)
13C-2,3,7,8-TCDF		1270	2000	pg/L	63.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		1350	2000	pg/L	67.5	(24%-185%)
13C-2,3,4,7,8-PeCDF		1460	2000	pg/L	73.0	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1480	2000	pg/L	73.7	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1340	2000	pg/L	66.8	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1500	2000	pg/L	75.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1280	2000	pg/L	63.9	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400001**	**Date Collected:**	**03/09/2023 16:05**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR198-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 03:47**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-9**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**999.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1300	2000	pg/L	65.1	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1380	2000	pg/L	68.8	(26%-138%)
37Cl-2,3,7,8-TCDD		157	200	pg/L	78.5	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400002**	**Date Collected:**	**03/09/2023 16:26**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR186-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 04:36**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-10**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1022.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.19	pg/L	2.19	4.89
40321-76-4	1,2,3,7,8-PeCDD	U	2.21	pg/L	2.21	24.5
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.29	pg/L	3.29	48.9
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.13	pg/L	3.13	48.9
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.21	pg/L	3.21	48.9
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	9.10	pg/L	6.75	48.9
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	42.6	pg/L	14.5	97.8
51207-31-9	2,3,7,8-TCDF	U	2.43	pg/L	2.43	9.78
57117-41-6	1,2,3,7,8-PeCDF	U	2.72	pg/L	2.72	48.9
57117-31-4	2,3,4,7,8-PeCDF	U	2.52	pg/L	2.52	48.9
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.46	pg/L	1.46	48.9
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.53	pg/L	1.53	48.9
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.45	pg/L	1.45	48.9
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.62	pg/L	2.62	48.9
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	6.81	pg/L	6.81	48.9
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	10.9	pg/L	10.9	48.9
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.05	pg/L	4.05	97.8
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.19	pg/L	2.19	9.78
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.21	pg/L	2.21	48.9
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.13	pg/L	3.13	48.9
TCDF	Total Tetrachlorodibenzofuran	U	2.43	pg/L	2.43	9.78
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	9.10	pg/L	6.75	48.9
30402-15-4	Total Pentachlorodibenzofuran	U	2.52	pg/L	2.52	48.9
55684-94-1	Total Hexachlorodibenzofuran	U	1.45	pg/L	1.45	48.9
38998-75-3	Total Heptachlorodibenzofuran	U	6.81	pg/L	6.81	48.9
TEQ	TEQ WHO2005 ND=0		0.104	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.77	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1300	1960	pg/L	66.5	(25%-164%)
13C-1,2,3,7,8-PeCDD		1460	1960	pg/L	74.5	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1410	1960	pg/L	72.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1370	1960	pg/L	70.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1350	1960	pg/L	69.2	(23%-140%)
13C-OCDD		2280	3910	pg/L	58.3	(17%-157%)
13C-2,3,7,8-TCDF		1240	1960	pg/L	63.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		1350	1960	pg/L	68.8	(24%-185%)
13C-2,3,4,7,8-PeCDF		1450	1960	pg/L	74.1	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1430	1960	pg/L	73.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1290	1960	pg/L	65.9	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1450	1960	pg/L	74.0	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1270	1960	pg/L	65.1	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400002**	**Date Collected:**	**03/09/2023 16:26**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR186-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 04:36**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-10**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1022.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1300	1960	pg/L	66.6	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1340	1960	pg/L	68.5	(26%-138%)
37Cl-2,3,7,8-TCDD		171	196	pg/L	87.6	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400003**	**Date Collected:**	**03/09/2023 16:32**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR15-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 05:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**991.6 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.18	pg/L	2.18	5.04
40321-76-4	1,2,3,7,8-PeCDD	U	2.14	pg/L	2.14	25.2
39227-28-6	1,2,3,4,7,8-HxCDD	U	4.92	pg/L	4.92	50.4
57653-85-7	1,2,3,6,7,8-HxCDD	U	4.60	pg/L	4.60	50.4
19408-74-3	1,2,3,7,8,9-HxCDD	U	4.76	pg/L	4.76	50.4
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	5.87	pg/L	5.83	50.4
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJK	27.3	pg/L	8.73	101
51207-31-9	2,3,7,8-TCDF	U	1.85	pg/L	1.85	10.1
57117-41-6	1,2,3,7,8-PeCDF	U	1.62	pg/L	1.62	50.4
57117-31-4	2,3,4,7,8-PeCDF	U	1.53	pg/L	1.53	50.4
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.78	pg/L	1.78	50.4
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.77	pg/L	1.77	50.4
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.82	pg/L	1.82	50.4
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.99	pg/L	2.99	50.4
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	3.69	pg/L	3.69	50.4
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.54	pg/L	4.54	50.4
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.92	pg/L	4.92	101
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.18	pg/L	2.18	10.1
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.14	pg/L	2.14	50.4
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	4.60	pg/L	4.60	50.4
TCDF	Total Tetrachlorodibenzofuran	U	1.85	pg/L	1.85	10.1
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	5.87	pg/L	5.83	50.4
30402-15-4	Total Pentachlorodibenzofuran	U	1.53	pg/L	1.53	50.4
55684-94-1	Total Hexachlorodibenzofuran	U	1.77	pg/L	1.77	50.4
38998-75-3	Total Heptachlorodibenzofuran	U	3.69	pg/L	3.69	50.4
TEQ	TEQ WHO2005 ND=0		0.0669	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.74	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1330	2020	pg/L	66.0	(25%-164%)
13C-1,2,3,7,8-PeCDD		1480	2020	pg/L	73.4	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1360	2020	pg/L	67.6	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1390	2020	pg/L	68.9	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1440	2020	pg/L	71.4	(23%-140%)
13C-OCDD		2560	4030	pg/L	63.5	(17%-157%)
13C-2,3,7,8-TCDF		1320	2020	pg/L	65.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		1350	2020	pg/L	67.1	(24%-185%)
13C-2,3,4,7,8-PeCDF		1450	2020	pg/L	71.9	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1410	2020	pg/L	70.1	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1320	2020	pg/L	65.5	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1450	2020	pg/L	72.0	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1320	2020	pg/L	65.3	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400003**	**Date Collected:**	**03/09/2023 16:32**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR15-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 05:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**991.6 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1350	2020	pg/L	66.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1470	2020	pg/L	72.7	(26%-138%)
37Cl-2,3,7,8-TCDD		155	202	pg/L	77.0	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400004**	**Date Collected:**	**03/09/2023 18:20**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR428-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 06:14**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-12**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**991.4 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.04	pg/L	2.04	5.04
40321-76-4	1,2,3,7,8-PeCDD	U	2.32	pg/L	2.32	25.2
39227-28-6	1,2,3,4,7,8-HxCDD	U	5.45	pg/L	5.45	50.4
57653-85-7	1,2,3,6,7,8-HxCDD	U	5.65	pg/L	5.65	50.4
19408-74-3	1,2,3,7,8,9-HxCDD	U	5.57	pg/L	5.57	50.4
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	17.2	pg/L	9.62	50.4
3268-87-9	1,2,3,4,6,7,8,9-OCDD	B	112	pg/L	17.5	101
51207-31-9	2,3,7,8-TCDF	U	2.72	pg/L	2.72	10.1
57117-41-6	1,2,3,7,8-PeCDF	U	1.91	pg/L	1.91	50.4
57117-31-4	2,3,4,7,8-PeCDF	U	1.99	pg/L	1.99	50.4
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.90	pg/L	1.90	50.4
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.84	pg/L	1.84	50.4
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.95	pg/L	1.95	50.4
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.84	pg/L	2.84	50.4
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	7.67	pg/L	4.86	50.4
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	6.82	pg/L	6.82	50.4
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	13.6	pg/L	5.59	101
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.04	pg/L	2.04	10.1
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.32	pg/L	2.32	50.4
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	5.45	pg/L	5.45	50.4
TCDF	Total Tetrachlorodibenzofuran	U	2.72	pg/L	2.72	10.1
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	38.0	pg/L	9.62	50.4
30402-15-4	Total Pentachlorodibenzofuran	U	1.91	pg/L	1.91	50.4
55684-94-1	Total Hexachlorodibenzofuran	JK	2.44	pg/L	1.84	50.4
38998-75-3	Total Heptachlorodibenzofuran	JK	19.5	pg/L	4.86	50.4
TEQ	TEQ WHO2005 ND=0		0.287	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.22	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1510	2020	pg/L	75.1	(25%-164%)
13C-1,2,3,7,8-PeCDD		1560	2020	pg/L	77.2	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1470	2020	pg/L	72.7	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1360	2020	pg/L	67.3	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1480	2020	pg/L	73.4	(23%-140%)
13C-OCDD		2780	4030	pg/L	68.9	(17%-157%)
13C-2,3,7,8-TCDF		1410	2020	pg/L	69.7	(24%-169%)
13C-1,2,3,7,8-PeCDF		1450	2020	pg/L	71.9	(24%-185%)
13C-2,3,4,7,8-PeCDF		1530	2020	pg/L	75.7	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1380	2020	pg/L	68.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1340	2020	pg/L	66.4	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1450	2020	pg/L	71.8	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1370	2020	pg/L	68.0	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400004**	**Date Collected:**	**03/09/2023 18:20**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR428-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 06:14**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-12**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**991.4 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1400	2020	pg/L	69.5	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1530	2020	pg/L	75.6	(26%-138%)
37Cl-2,3,7,8-TCDD		190	202	pg/L	94.0	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400005**	**Date Collected:**	**03/09/2023 17:50**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR71-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 07:03**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-13**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1004.3 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.74	pg/L	1.74	4.98
40321-76-4	1,2,3,7,8-PeCDD	U	1.94	pg/L	1.94	24.9
39227-28-6	1,2,3,4,7,8-HxCDD	U	4.28	pg/L	4.28	49.8
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.98	pg/L	3.98	49.8
19408-74-3	1,2,3,7,8,9-HxCDD	U	4.12	pg/L	4.12	49.8
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	30.3	pg/L	11.4	49.8
3268-87-9	1,2,3,4,6,7,8,9-OCDD		201	pg/L	20.3	99.6
51207-31-9	2,3,7,8-TCDF	U	1.75	pg/L	1.75	9.96
57117-41-6	1,2,3,7,8-PeCDF	U	1.99	pg/L	1.99	49.8
57117-31-4	2,3,4,7,8-PeCDF	U	1.82	pg/L	1.82	49.8
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.83	pg/L	1.83	49.8
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.74	pg/L	1.74	49.8
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.82	pg/L	1.82	49.8
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.85	pg/L	2.85	49.8
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	14.1	pg/L	6.69	49.8
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	9.46	pg/L	9.46	49.8
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	46.5	pg/L	11.8	99.6
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	1.74	pg/L	1.74	9.96
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.94	pg/L	1.94	49.8
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.98	pg/L	3.98	49.8
TCDF	Total Tetrachlorodibenzofuran	U	1.75	pg/L	1.75	9.96
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	46.6	pg/L	11.4	49.8
30402-15-4	Total Pentachlorodibenzofuran	U	1.82	pg/L	1.82	49.8
55684-94-1	Total Hexachlorodibenzofuran	JK	2.45	pg/L	1.74	49.8
38998-75-3	Total Heptachlorodibenzofuran	JK	31.8	pg/L	6.69	49.8
TEQ	TEQ WHO2005 ND=0		0.518	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.83	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1360	1990	pg/L	68.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		1610	1990	pg/L	80.8	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1320	1990	pg/L	66.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1360	1990	pg/L	68.5	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1380	1990	pg/L	69.1	(23%-140%)
13C-OCDD		2380	3980	pg/L	59.7	(17%-157%)
13C-2,3,7,8-TCDF		1380	1990	pg/L	69.4	(24%-169%)
13C-1,2,3,7,8-PeCDF		1440	1990	pg/L	72.5	(24%-185%)
13C-2,3,4,7,8-PeCDF		1560	1990	pg/L	78.1	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1340	1990	pg/L	67.2	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1270	1990	pg/L	64.0	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1420	1990	pg/L	71.2	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1300	1990	pg/L	65.4	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400005**	**Date Collected:**	**03/09/2023 17:50**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR71-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 07:03**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-13**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1004.3 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1250	1990	pg/L	62.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1390	1990	pg/L	69.6	(26%-138%)
37Cl-2,3,7,8-TCDD		159	199	pg/L	79.7	(35%-197%)

Comments:

J **Value is estimated**

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400006**	**Date Collected:**	**03/09/2023 16:53**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR30-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/25/2023 15:59**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_5-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1007.7 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.74	pg/L	1.74	4.96
40321-76-4	1,2,3,7,8-PeCDD	U	2.62	pg/L	2.62	24.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.95	pg/L	3.95	49.6
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.59	pg/L	3.59	49.6
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.77	pg/L	3.77	49.6
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	26.7	pg/L	7.38	49.6
3268-87-9	1,2,3,4,6,7,8,9-OCDD		135	pg/L	13.9	99.2
51207-31-9	2,3,7,8-TCDF	U	1.98	pg/L	1.98	9.92
57117-41-6	1,2,3,7,8-PeCDF	U	1.95	pg/L	1.95	49.6
57117-31-4	2,3,4,7,8-PeCDF	U	1.85	pg/L	1.85	49.6
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.57	pg/L	1.57	49.6
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.60	pg/L	1.60	49.6
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.67	pg/L	1.67	49.6
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.30	pg/L	2.30	49.6
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	4.27	pg/L	2.88	49.6
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.65	pg/L	3.65	49.6
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	6.21	pg/L	6.21	99.2
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	1.74	pg/L	1.74	9.92
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.62	pg/L	2.62	49.6
34465-46-8	Total Hexachlorodibenzo-p-dioxin	JK	7.46	pg/L	3.59	49.6
TCDF	Total Tetrachlorodibenzofuran	U	1.98	pg/L	1.98	9.92
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	53.4	pg/L	7.38	49.6
30402-15-4	Total Pentachlorodibenzofuran	JK	2.08	pg/L	0.726	49.6
55684-94-1	Total Hexachlorodibenzofuran	J	3.67	pg/L	1.57	49.6
38998-75-3	Total Heptachlorodibenzofuran	JK	9.29	pg/L	2.88	49.6
TEQ	TEQ WHO2005 ND=0		0.350	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.88	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1280	1980	pg/L	64.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		907	1980	pg/L	45.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1340	1980	pg/L	67.5	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1290	1980	pg/L	64.9	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1520	1980	pg/L	76.4	(23%-140%)
13C-OCDD		3110	3970	pg/L	78.2	(17%-157%)
13C-2,3,7,8-TCDF		1490	1980	pg/L	75.2	(24%-169%)
13C-1,2,3,7,8-PeCDF		834	1980	pg/L	42.0	(24%-185%)
13C-2,3,4,7,8-PeCDF		879	1980	pg/L	44.3	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1220	1980	pg/L	61.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1190	1980	pg/L	59.7	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1260	1980	pg/L	63.6	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1300	1980	pg/L	65.7	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400006**	**Date Collected:**	**03/09/2023 16:53**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR30-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/25/2023 15:59**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_5-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1007.7 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1320	1980	pg/L	66.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1570	1980	pg/L	79.2	(26%-138%)
37Cl-2,3,7,8-TCDD		144	198	pg/L	72.6	(35%-197%)

Comments:

J **Value is estimated**

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quality Control Summary

Hi-Res Dioxins/Furans

Surrogate Recovery Report

SDG Number: 21400

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
21400001	SIB-SW-WR198-030923	13C-2,3,7,8-TCDD		61.1	(25%-164%)
		13C-1,2,3,7,8-PeCDD		73.8	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		74.2	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		69.4	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		71.2	(23%-140%)
		13C-OCDD		59.3	(17%-157%)
		13C-2,3,7,8-TCDF		63.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		67.5	(24%-185%)
		13C-2,3,4,7,8-PeCDF		73.0	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		73.7	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		66.8	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		75.1	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		63.9	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		65.1	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		68.8	(26%-138%)
		37Cl-2,3,7,8-TCDD		78.5	(35%-197%)
21400002	SIB-SW-WR186-030923	13C-2,3,7,8-TCDD		66.5	(25%-164%)
		13C-1,2,3,7,8-PeCDD		74.5	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		72.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		70.2	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		69.2	(23%-140%)
		13C-OCDD		58.3	(17%-157%)
		13C-2,3,7,8-TCDF		63.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		68.8	(24%-185%)
		13C-2,3,4,7,8-PeCDF		74.1	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		73.0	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		65.9	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		74.0	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		65.1	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		66.6	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		68.5	(26%-138%)
		37Cl-2,3,7,8-TCDD		87.6	(35%-197%)
21400003	SIB-SW-WR15-030923	13C-2,3,7,8-TCDD		66.0	(25%-164%)
		13C-1,2,3,7,8-PeCDD		73.4	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		67.6	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		68.9	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		71.4	(23%-140%)
		13C-OCDD		63.5	(17%-157%)
		13C-2,3,7,8-TCDF		65.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		67.1	(24%-185%)
		13C-2,3,4,7,8-PeCDF		71.9	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		70.1	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		65.5	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		72.0	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		65.3	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		66.7	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		72.7	(26%-138%)
		37Cl-2,3,7,8-TCDD		77.0	(35%-197%)
21400004	SIB-SW-WR428-030923	13C-2,3,7,8-TCDD		75.1	(25%-164%)

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 21400

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
21400004	SIB-SW-WR428-030923	13C-1,2,3,7,8-PeCDD		77.2	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		72.7	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		67.3	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		73.4	(23%-140%)
		13C-OCDD		68.9	(17%-157%)
		13C-2,3,7,8-TCDF		69.7	(24%-169%)
		13C-1,2,3,7,8-PeCDF		71.9	(24%-185%)
		13C-2,3,4,7,8-PeCDF		75.7	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		68.4	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		66.4	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		71.8	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		68.0	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		69.5	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		75.6	(26%-138%)
		37Cl-2,3,7,8-TCDD		94.0	(35%-197%)
21400005	SIB-SW-WR71-030923	13C-2,3,7,8-TCDD		68.4	(25%-164%)
		13C-1,2,3,7,8-PeCDD		80.8	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		66.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		68.5	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		69.1	(23%-140%)
		13C-OCDD		59.7	(17%-157%)
		13C-2,3,7,8-TCDF		69.4	(24%-169%)
		13C-1,2,3,7,8-PeCDF		72.5	(24%-185%)
		13C-2,3,4,7,8-PeCDF		78.1	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		67.2	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		64.0	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		71.2	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		65.4	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		62.7	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		69.6	(26%-138%)
		37Cl-2,3,7,8-TCDD		79.7	(35%-197%)
12034326	LCS for batch 52695	13C-2,3,7,8-TCDD		62.5	(20%-175%)
		13C-1,2,3,7,8-PeCDD		71.4	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		63.7	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		68.9	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		66.6	(22%-166%)
		13C-OCDD		58.6	(13%-199%)
		13C-2,3,7,8-TCDF		64.5	(22%-152%)
		13C-1,2,3,7,8-PeCDF		64.8	(21%-192%)
		13C-2,3,4,7,8-PeCDF		72.3	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		65.7	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		64.6	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		66.6	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		64.4	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		62.6	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		67.3	(20%-186%)
		37Cl-2,3,7,8-TCDD		73.9	(31%-191%)
12034327	LCSD for batch 52695	13C-2,3,7,8-TCDD		66.2	(20%-175%)
		13C-1,2,3,7,8-PeCDD		69.2	(21%-227%)

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 21400

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12034327	LCSD for batch 52695	13C-1,2,3,4,7,8-HxCDD		67.4	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		69.0	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		65.3	(22%-166%)
		13C-OCDD		57.4	(13%-199%)
		13C-2,3,7,8-TCDF		65.6	(22%-152%)
		13C-1,2,3,7,8-PeCDF		65.2	(21%-192%)
		13C-2,3,4,7,8-PeCDF		69.5	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		67.0	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		65.1	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		69.4	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		63.9	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		62.9	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		66.1	(20%-186%)
		37Cl-2,3,7,8-TCDD		89.7	(31%-191%)
12034325	MB for batch 52695	13C-2,3,7,8-TCDD		53.5	(25%-164%)
		13C-1,2,3,7,8-PeCDD		56.5	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		62.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		58.8	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		57.8	(23%-140%)
		13C-OCDD		50.0	(17%-157%)
		13C-2,3,7,8-TCDF		52.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		49.2	(24%-185%)
		13C-2,3,4,7,8-PeCDF		54.5	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		61.0	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		60.7	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		62.4	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		53.2	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		55.8	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		60.8	(26%-138%)
		37Cl-2,3,7,8-TCDD		73.7	(35%-197%)
21400006	SIB-SW-WR30-030923	13C-2,3,7,8-TCDD		64.4	(25%-164%)
		13C-1,2,3,7,8-PeCDD		45.7	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		67.5	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		64.9	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		76.4	(23%-140%)
		13C-OCDD		78.2	(17%-157%)
		13C-2,3,7,8-TCDF		75.2	(24%-169%)
		13C-1,2,3,7,8-PeCDF		42.0	(24%-185%)
		13C-2,3,4,7,8-PeCDF		44.3	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		61.4	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		59.7	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		63.6	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		65.7	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		66.7	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		79.2	(26%-138%)
		37Cl-2,3,7,8-TCDD		72.6	(35%-197%)

* Recovery outside Acceptance Limits

\# Column to be used to flag recovery values

Hi-Res Dioxins/Furans

Surrogate Recovery Report

SDG Number: 21400

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: **21400**
Client ID: **LCS for batch 52695**
Lab Sample ID: **12034326**
Instrument: **HRP722**
Analyst: **MW1**

Sample Type: **Laboratory Control Sample**
Matrix: **WATER**
Analysis Date: **06/24/2023 08:48**
Dilution: **1**
Prep Batch ID: **52695**
Batch ID: **52698**

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	231	116	67-158
40321-76-4	LCS	1,2,3,7,8-PeCDD	1000	986	98.6	70-142
39227-28-6	LCS	1,2,3,4,7,8-HxCDD	1000	1130	113	70-164
57653-85-7	LCS	1,2,3,6,7,8-HxCDD	1000	988	98.8	76-134
19408-74-3	LCS	1,2,3,7,8,9-HxCDD	1000	1090	109	64-162
35822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	1000	1100	110	70-140
3268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	2000	2150	107	78-144
51207-31-9	LCS	2,3,7,8-TCDF	200	224	112	75-158
57117-41-6	LCS	1,2,3,7,8-PeCDF	1000	1080	108	80-134
57117-31-4	LCS	2,3,4,7,8-PeCDF	1000	1090	109	68-160
70648-26-9	LCS	1,2,3,4,7,8-HxCDF	1000	1070	107	72-134
57117-44-9	LCS	1,2,3,6,7,8-HxCDF	1000	1080	108	84-130
60851-34-5	LCS	2,3,4,6,7,8-HxCDF	1000	1090	109	70-156
72918-21-9	LCS	1,2,3,7,8,9-HxCDF	1000	1060	106	78-130
67562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	1000	1150	115	82-122
55673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	1000	1160	116	78-138
39001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	2000	2430	122	63-170

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: **21400**
Client ID: **LCSD for batch 52695**
Lab Sample ID: **12034327**
Instrument: **HRP722**
Analyst: **MW1**

Sample Type: **Laboratory Control Sample Duplicate**
Matrix: **WATER**
Analysis Date: **06/24/2023 09:36**
Dilution: **1**
Prep Batch ID: **52695**
Batch ID: **52698**

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	213	106	67-158	8.30	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	1000	998	99.8	70-142	1.23	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	1000	991	99.1	70-164	13.4	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	1000	993	99.3	76-134	0.541	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	1000	1050	105	64-162	4.24	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	1000	1020	102	70-140	7.71	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	2000	1980	98.9	78-144	8.13	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	200	224	112	75-158	0.00894	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	1000	1040	104	80-134	3.77	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	1000	1080	108	68-160	0.973	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	1000	1010	101	72-134	5.48	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	1000	1000	100	84-130	7.42	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	1000	1030	103	70-156	5.76	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	1000	1080	108	78-130	1.39	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	1000	1090	109	82-122	4.76	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	1000	1070	107	78-138	8.11	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	2000	2240	112	63-170	8.11	0-20

Method Blank Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Matrix:**	**WATER**
Client ID:	**MB for batch 52695**	**Instrument ID:**	**HRP722**	**Data File:**	**f23jun23a_3-3**
Lab Sample ID:	**12034325**	**Prep Date:**	**23-MAY-23**	**Analyzed:**	**06/24/23 10:25**
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 52695	12034326	f23jun23a_3-1	06/24/23	0848
02	LCSD for batch 52695	12034327	f23jun23a_3-2	06/24/23	0936
03	SIB-SW-WR198-030923	21400001	f23jun23a_2-9	06/24/23	0347
04	SIB-SW-WR186-030923	21400002	f23jun23a_2-10	06/24/23	0436
05	SIB-SW-WR15-030923	21400003	f23jun23a_2-11	06/24/23	0525
06	SIB-SW-WR428-030923	21400004	f23jun23a_2-12	06/24/23	0614
07	SIB-SW-WR71-030923	21400005	f23jun23a_2-13	06/24/23	0703
08	SIB-SW-WR30-030923	21400006	f23jun23a_5-11	06/25/23	1559

Sample Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400001**	**Date Collected:**	**03/09/2023 16:05**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR198-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 03:47**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-9**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**999.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.14	pg/L	2.14	5.00
40321-76-4	1,2,3,7,8-PeCDD	U	2.30	pg/L	2.30	25.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.76	pg/L	2.76	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.64	pg/L	2.64	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.70	pg/L	2.70	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	8.35	pg/L	5.46	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJK	26.8	pg/L	12.4	100
51207-31-9	2,3,7,8-TCDF	U	2.18	pg/L	2.18	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	2.38	pg/L	2.38	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	2.30	pg/L	2.30	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.44	pg/L	1.44	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.40	pg/L	1.40	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.55	pg/L	1.55	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.54	pg/L	2.54	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	5.60	pg/L	5.60	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	8.51	pg/L	8.51	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.08	pg/L	4.08	100
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.14	pg/L	2.14	10.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.30	pg/L	2.30	50.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.64	pg/L	2.64	50.0
TCDF	Total Tetrachlorodibenzofuran	U	2.18	pg/L	2.18	10.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	15.0	pg/L	5.46	50.0
30402-15-4	Total Pentachlorodibenzofuran	U	2.30	pg/L	2.30	50.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.40	pg/L	1.40	50.0
38998-75-3	Total Heptachlorodibenzofuran	U	5.60	pg/L	5.60	50.0
TEQ	TEQ WHO2005 ND=0		0.0915	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.63	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1220	2000	pg/L	61.1	(25%-164%)
13C-1,2,3,7,8-PeCDD		1480	2000	pg/L	73.8	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1490	2000	pg/L	74.2	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1390	2000	pg/L	69.4	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1420	2000	pg/L	71.2	(23%-140%)
13C-OCDD		2370	4000	pg/L	59.3	(17%-157%)
13C-2,3,7,8-TCDF		1270	2000	pg/L	63.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		1350	2000	pg/L	67.5	(24%-185%)
13C-2,3,4,7,8-PeCDF		1460	2000	pg/L	73.0	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1480	2000	pg/L	73.7	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1340	2000	pg/L	66.8	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1500	2000	pg/L	75.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1280	2000	pg/L	63.9	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400001**	**Date Collected:**	**03/09/2023 16:05**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR198-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 03:47**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-9**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**999.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1300	2000	pg/L	65.1	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1380	2000	pg/L	68.8	(26%-138%)
37Cl-2,3,7,8-TCDD		157	200	pg/L	78.5	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-9.qld

Last Altered: Wednesday, June 28, 2023 9:48:58 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:05:57 PM Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.107		1027			572			
2	12378-PeCDD							NO		0.115		1204			951			
3	123478-HxCDD							NO		0.138		957			927			
4	123678-HxCDD							NO		0.132		957			927			
5	123789-HxCDD							NO		0.135		957			927			
6	1234678-HpCDD	5.03e2	3.25e2	8.28e2	40.16	1.000	1.54	YES	0.417	0.273	1.46e4	1376	10.6	9.91e3	1429	6.9	MM	MM
7	OCDD	6.27e2	1.01e3	1.63e3	44.42	1.002	0.62	YES	1.340	0.622	1.51e4	1637	9.2	1.18e4	1108	10.7	MM	MM
8	2378-TCDF	5.18e1	6.29e1	1.15e2	30.61	1.001	0.82	NO	0.024	0.109	1.60e3	834	1.9	2.31e3	1309	1.8	bb	bb
9	12378-PeCDF	1.42e2	1.01e2	2.43e2	33.37	1.001	1.41	NO	0.050	0.119	6.19e3	1473	4.2	3.98e3	3436	1.2	bb	bb
10	23478-PeCDF							NO		0.115		1473			3436			
11	123478-HxCDF	7.22e1	5.27e1	1.25e2	36.05	1.000	1.37	NO	0.033	0.0719	1.56e3	1130	1.4	2.92e3	893	3.3	bb	bb
12	123678-HxCDF							NO		0.0698		1130			893			
13	234678-HxCDF							NO		0.0772		1130			893			
14	123789-HxCDF							NO		0.127		1130			893			
15	1234678-HpCDF	7.07e1	1.01e2	1.72e2	38.90	1.000	0.70	YES	0.044	0.280	4.36e3	3214	1.4	6.12e3	3223	1.9	bb	bb
16	1234789-HpCDF	1.14e2	2.47e2	3.61e2	40.88	1.002	0.46	YES	0.113	0.425	8.95e3	3214	2.8	1.53e4	3223	4.8	db	bd
17	OCDF							NO		0.204		827			597			
18	13C-2378-TCDD	1.00e5	1.27e5	2.27e5	31.28	1.017	0.79	NO	61.072	0.227	1.50e6	2738	547.5	1.91e6	1537	1240.4	bb	bd
19	13C-12378-PeCDD	1.22e5	7.42e4	1.96e5	34.15	1.110	1.64	NO	73.813	0.279	2.50e6	2559	975.9	1.52e6	1191	1279.1	bd	bd
20	13C-123478-HxCDD	1.00e5	7.86e4	1.79e5	36.76	0.991	1.27	NO	74.206	0.518	1.79e6	3435	519.7	1.37e6	4314	316.8	bd	bd
21	13C-123678-HxCDD	1.14e5	8.90e4	2.03e5	36.85	0.994	1.28	NO	69.404	0.427	1.88e6	3435	546.2	1.44e6	4314	334.9	dd	dd
22	13C-1234678-HpCDD	8.44e4	7.75e4	1.62e5	40.14	1.082	1.09	NO	71.155	0.538	1.09e6	4758	229.5	9.91e5	2857	346.9	bd	bd
23	13C-OCDD	1.05e5	1.15e5	2.20e5	44.36	1.196	0.91	NO	118.562	0.690	9.48e5	4575	207.3	1.08e6	3376	321.0	bd	bd
24	13C-2378-TCDF	1.63e5	1.97e5	3.59e5	30.58	0.994	0.83	NO	63.571	0.198	1.65e6	2847	580.3	1.99e6	2842	701.4	bd	bd
25	13C-12378-PeCDF	2.36e5	1.42e5	3.79e5	33.35	1.084	1.66	NO	67.535	0.648	5.06e6	10586	478.5	2.99e6	7850	381.1	bd	bd
26	13C-23478-PeCDF	2.44e5	1.42e5	3.86e5	33.96	1.104	1.72	NO	73.036	0.688	4.84e6	10586	457.3	2.92e6	7850	371.4	bd	db
27	13C-123478-HxCDF	9.36e4	1.77e5	2.71e5	36.04	0.972	0.53	NO	73.703	0.543	1.72e6	5914	290.3	3.15e6	6480	485.6	bd	bd
28	13C-123678-HxCDF	1.04e5	1.99e5	3.03e5	36.14	0.975	0.52	NO	66.751	0.439	1.81e6	5914	306.1	3.43e6	6480	529.7	db	dd
29	13C-234678-HxCDF	9.81e4	1.88e5	2.86e5	36.63	0.988	0.52	NO	75.085	0.524	1.58e6	5914	267.4	3.15e6	6480	485.8	bb	bd
30	13C-123789-HxCDF	7.58e4	1.40e5	2.16e5	37.40	1.009	0.54	NO	63.928	0.590	1.08e6	5914	181.9	1.99e6	6480	306.4	bd	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-9.qld

Last Altered: Wednesday, June 28, 2023 9:48:58 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:05:57 PM Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	9.08e4	1.94e5	2.85e5	38.89	1.049	0.47	NO	65.112	0.806	1.32e6	9820	134.8	2.74e6	12061	227.1	bd	bb
32	13C-1234789-HpCDF	7.27e4	1.62e5	2.34e5	40.81	1.101	0.45	NO	68.795	1.03	8.61e5	9820	87.7	1.93e6	12061	160.1	bb	bb
33	13C-1234-TCDD	1.47e5	1.79e5	3.26e5	30.77	0.000	0.82	NO	100.000	0.258	1.87e6	2738	682.3	2.17e6	1537	1411.0	bb	bb
34	13C-123789-HxCDD	1.58e5	1.27e5	2.84e5	37.08	0.000	1.24	NO	100.000	0.439	2.45e6	3435	712.7	1.93e6	4314	447.0	dd	dd
35	37Cl-2378-TCDD	2.88e4		2.88e4	31.30	1.017			7.855	0.0811	4.66e5	1508	309.3				bb	

Reasons for Analyst Intervention

Name:f23jun23a_2-9, ID:21400001-1, Description: 52698

M	M2
6 1234678-HpCDD 40.16 - AB	6 1234678-HpCDD 40.16 - AB
7 OCDD 44.42 - AB	7 OCDD 44.42 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-9.qld

Last Altered: Wednesday, June 28, 2023 9:48:58 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:05:57 PM Eastern Daylight Time

AMM 06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	8.30e1	6.25e1	1.45e2	38.87	1.33	YES	0.073	0.273	2.95e3	1376	2.1	2.24e3	1429	1.6	bb	bb
2	Total-heptadioxins	3.09e2	3.55e2	6.64e2	39.22	0.87	YES	0.334	0.273	8.45e3	1376	6.1	1.13e4	1429	7.9	MM	MM
3	1234678-HpCDD	5.03e2	3.25e2	8.28e2	40.16	1.54	YES	0.417	0.273	1.46e4	1376	10.6	9.91e3	1429	6.9	MM	MM

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDF	5.18e1	6.29e1	1.15e2	30.61	0.82	NO	0.024	0.109	1.60e3	834	1.9	2.31e3	1309	1.8	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-9.qld

Last Altered: Wednesday, June 28, 2023 9:48:58 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:05:57 PM Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	12378-PeCDF	1.42e2	1.01e2	2.43e2	33.37	1.41	NO	0.050	0.119	6.19e3	1473	4.2	3.98e3	3436	1.2	bb	bb
2	Total-pentafurans	1.19e2	7.82e1	1.97e2	34.69	1.52	NO	0.039	0.117	8.70e3	1473	5.9	5.82e3	3436	1.7	bd	bb
3	Total-pentafurans	5.66e1	9.87e1	1.55e2	34.73	0.57	YES	0.030	0.117	4.72e3	1473	3.2	7.20e3	3436	2.1	db	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	123478-HxCDF	7.22e1	5.27e1	1.25e2	36.05	1.37	NO	0.033	0.0719	1.56e3	1130	1.4	2.92e3	893	3.3	bb	bb

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDF	7.07e1	1.01e2	1.72e2	38.90	0.70	YES	0.044	0.280	4.36e3	3214	1.4	6.12e3	3223	1.9	bb	bb
2	Total-heptafurans	5.32e1	7.04e1	1.24e2	40.69	0.75	YES	0.035	0.345	3.31e3	3214	1.0	4.18e3	3223	1.3	bb	bb
3	Total-heptafurans	9.23e1	8.63e1	1.79e2	40.74	1.07	NO	0.050	0.345	7.73e3	3214	2.4	8.29e3	3223	2.6	bb	bb
4	1234789-HpCDF	1.14e2	2.47e2	3.61e2	40.88	0.46	YES	0.113	0.425	8.95e3	3214	2.8	1.53e4	3223	4.8	db	bd
5	Total-heptafurans	1.89e2	1.62e2	3.51e2	40.93	1.17	NO	0.099	0.345	9.24e3	3214	2.9	9.79e3	3223	3.0	bd	dd
6	Total-heptafurans	2.99e2	1.60e2	4.59e2	41.00	1.87	YES	0.129	0.345	5.58e3	3214	1.7	4.41e3	3223	1.4	dd	dd
7	Total-heptafurans	3.01e2	1.35e2	4.36e2	41.10	2.23	YES	0.122	0.345	8.43e3	3214	2.6	7.10e3	3223	2.2	db	bb
8	Total-heptafurans	1.92e2	2.93e2	4.86e2	41.18	0.66	YES	0.136	0.345	9.95e3	3214	3.1	1.33e4	3223	4.1	bb	bd
9	Total-heptafurans	3.53e2	1.18e2	4.71e2	41.24	2.99	YES	0.132	0.345	2.54e4	3214	7.9	7.28e3	3223	2.3	bb	db
10	Total-heptafurans	6.08e1	5.74e1	1.18e2	41.32	1.06	NO	0.033	0.345	4.73e3	3214	1.5	4.56e3	3223	1.4	bd	bd
11	Total-heptafurans	1.34e2	1.85e2	3.19e2	41.35	0.73	YES	0.090	0.345	6.61e3	3214	2.1	5.44e3	3223	1.7	dd	dd
12	Total-heptafurans	1.49e2	1.22e2	2.70e2	41.42	1.22	YES	0.076	0.345	3.96e3	3214	1.2	3.39e3	3223	1.1	dd	db
13	Total-heptafurans	2.30e2	7.03e1	3.00e2	41.55	3.27	YES	0.084	0.345	6.98e3	3214	2.2	3.02e3	3223	0.9	db	bb

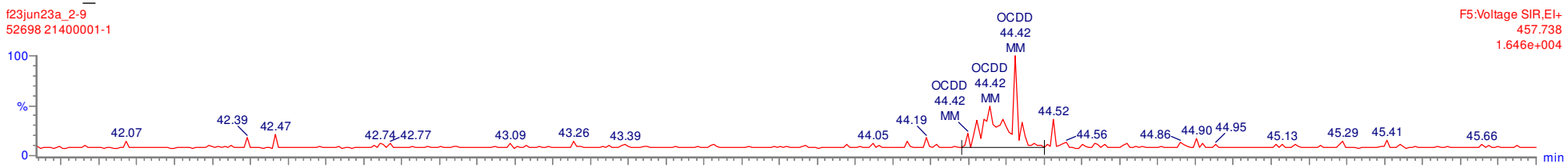
Reasons for Analyst Intervention

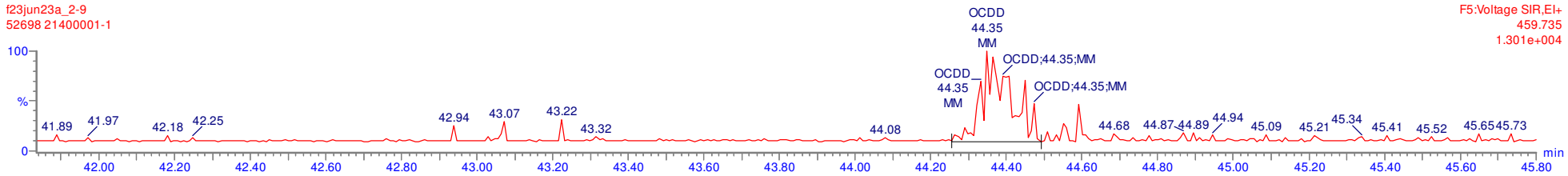
Name:f23jun23a_2-9, ID:21400001-1, Description: 52698

M	M2
2 Total-heptadioxins 39.22 - AB	2 Total-heptadioxins 39.22 - AB
3 1234678-HpCDD 40.16 - AB	3 1234678-HpCDD 40.16 - AB

Reason Codes assigned by MW1 on 28-JUN-23

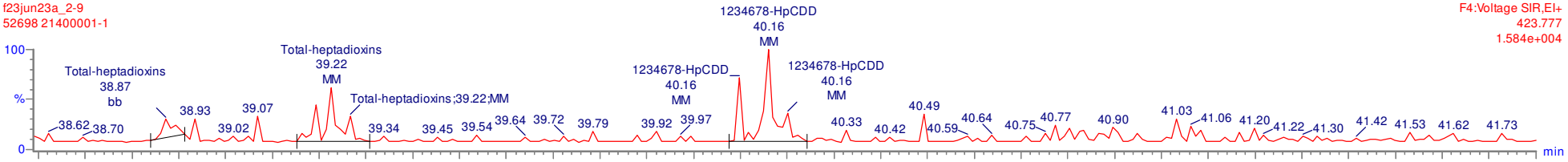
MANUAL INTEGRATION
METHOD 1613
HRP722_2

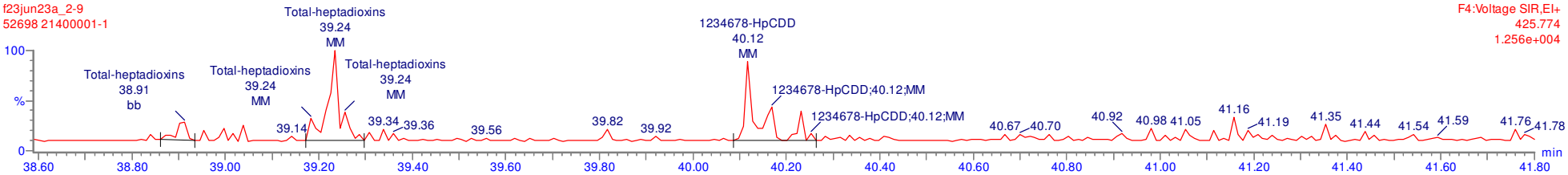




06/28/2023 06/28/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/28/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

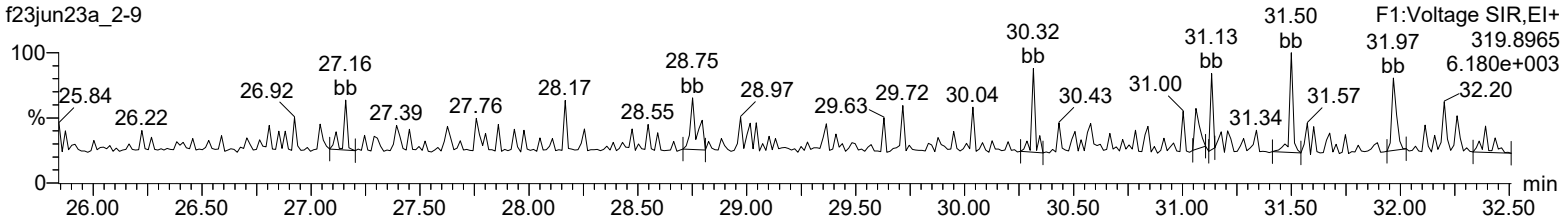
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

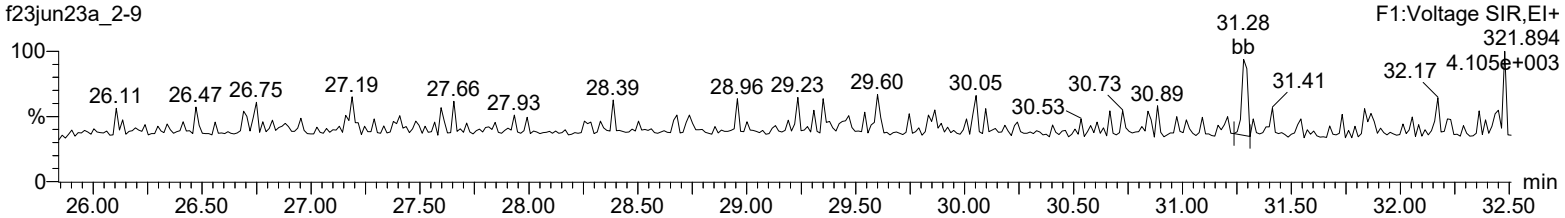
AMA 06/28/2023

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

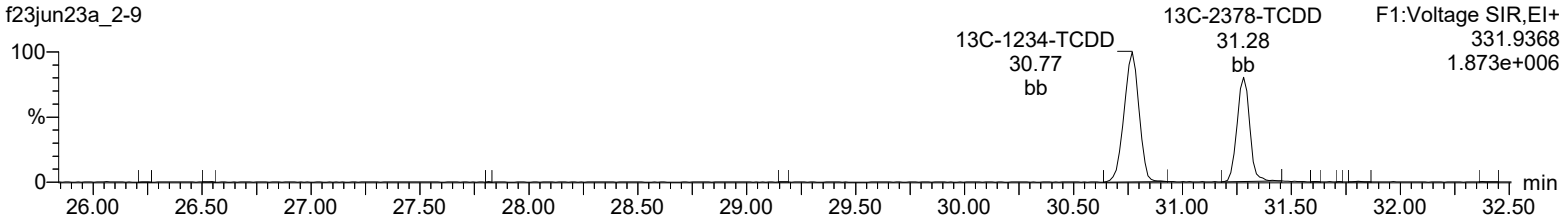
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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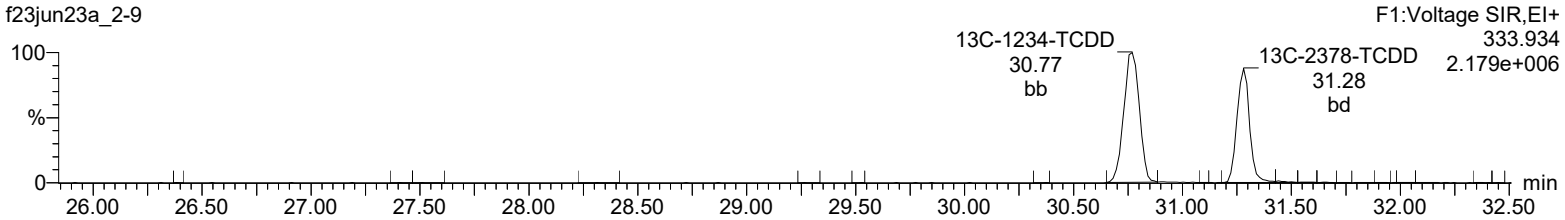
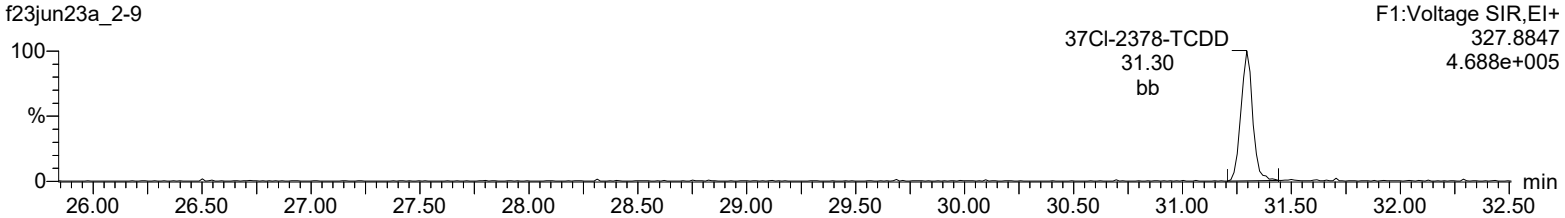
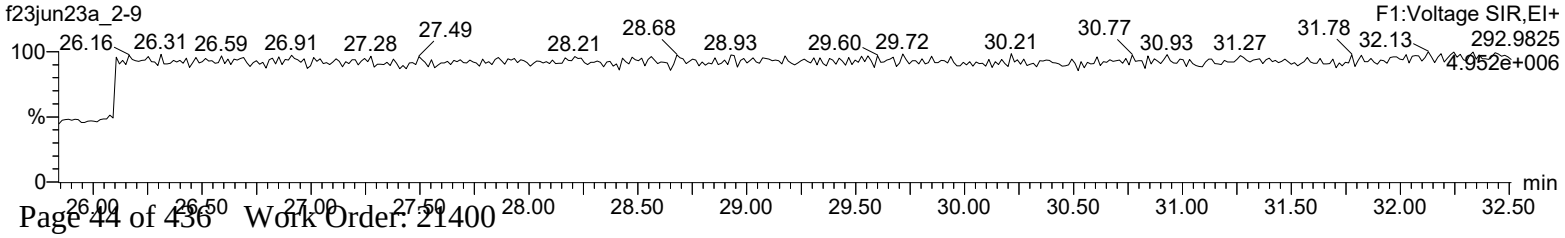


37Cl-2378-TCDD



Lock Mass F1



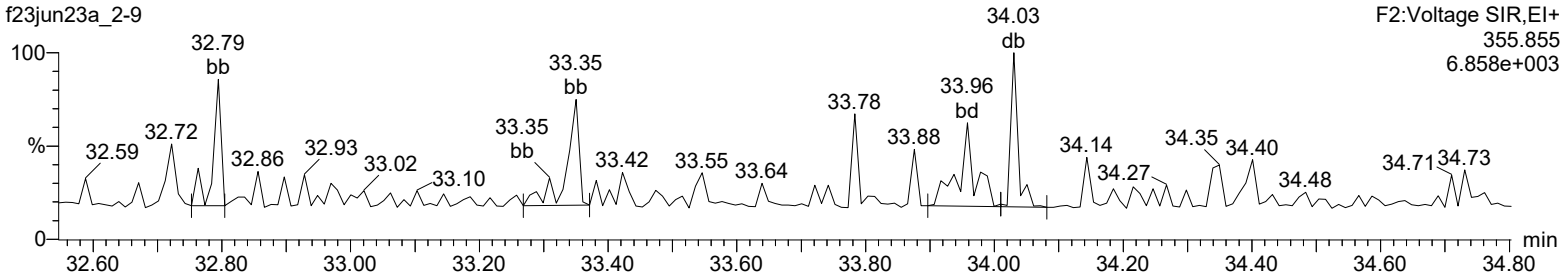
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

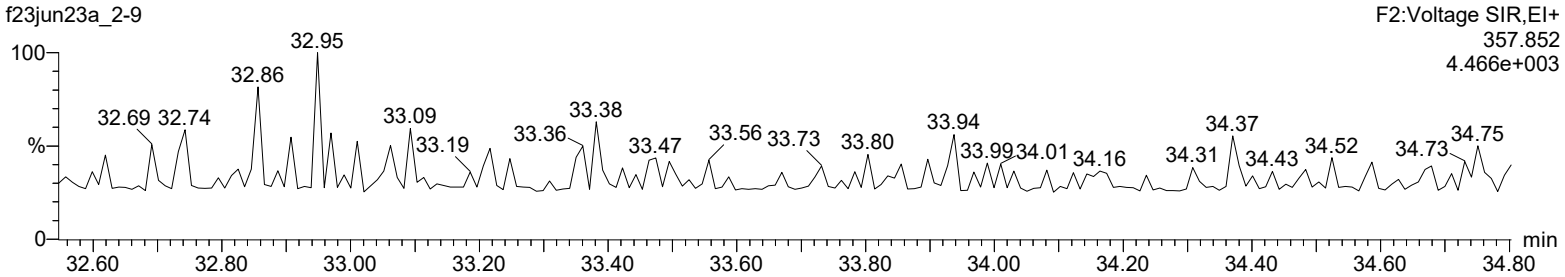
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

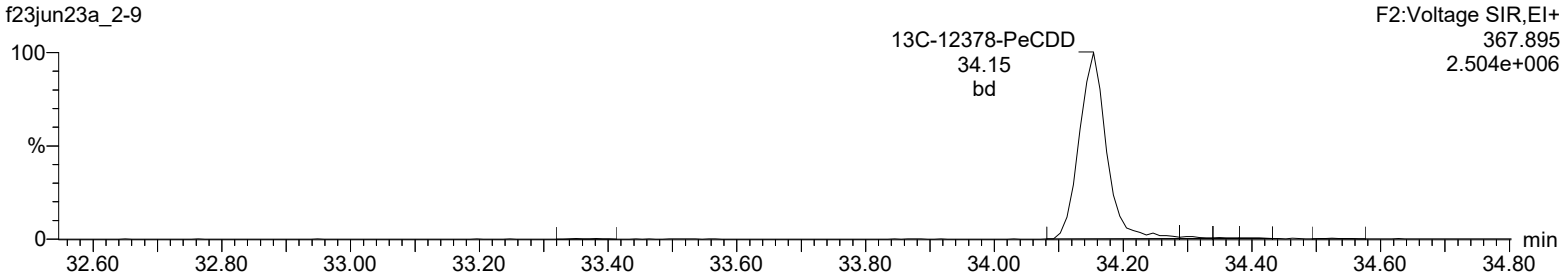
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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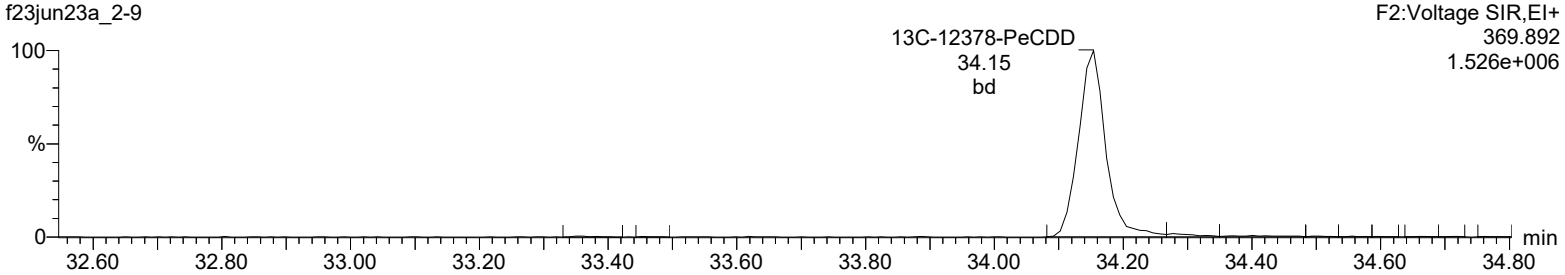
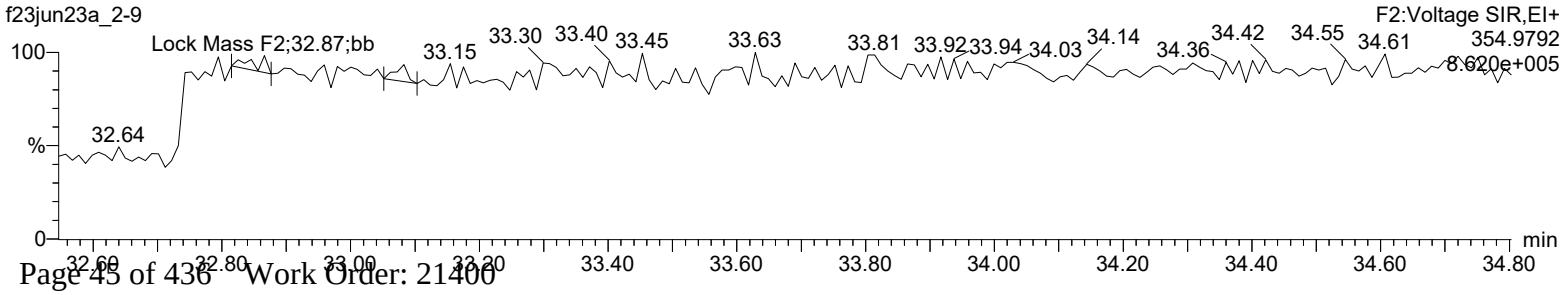


Lock Mass F2



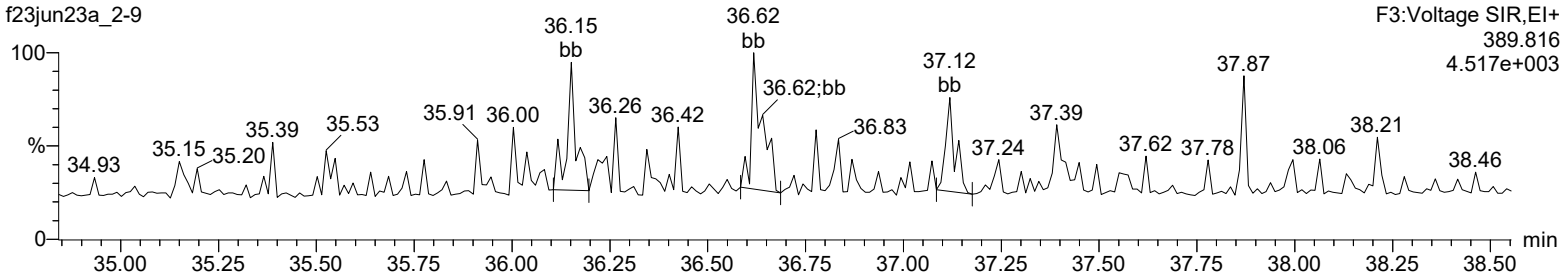
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

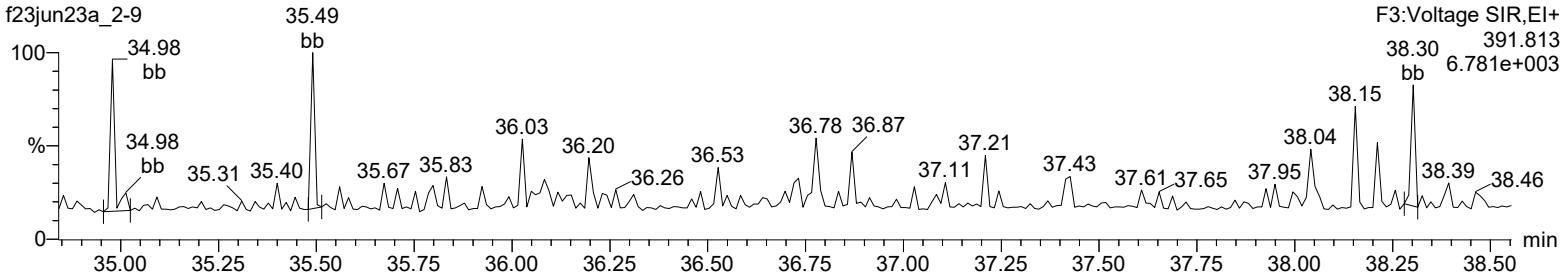
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

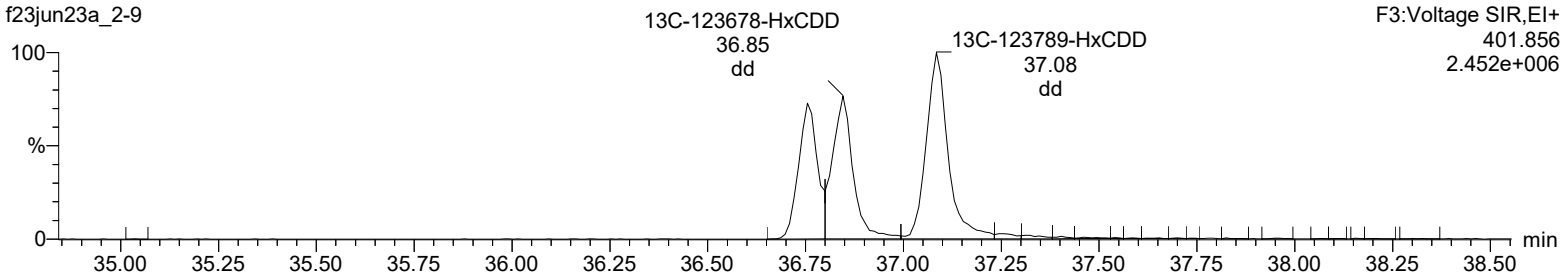
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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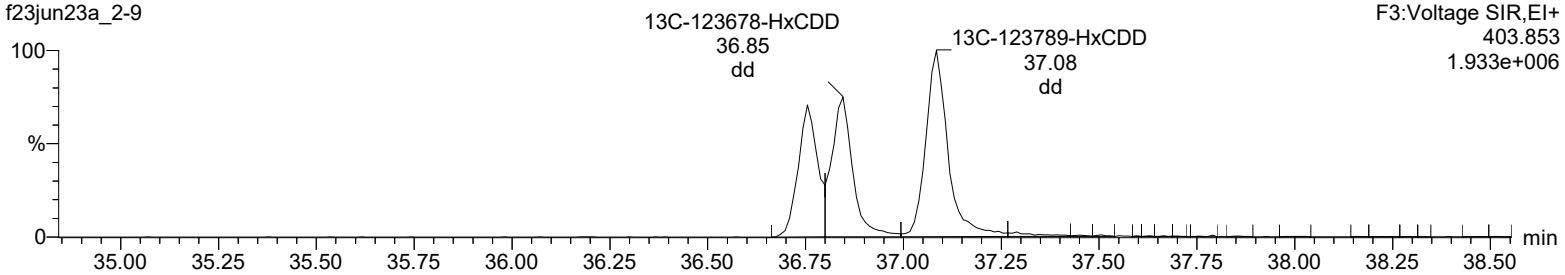
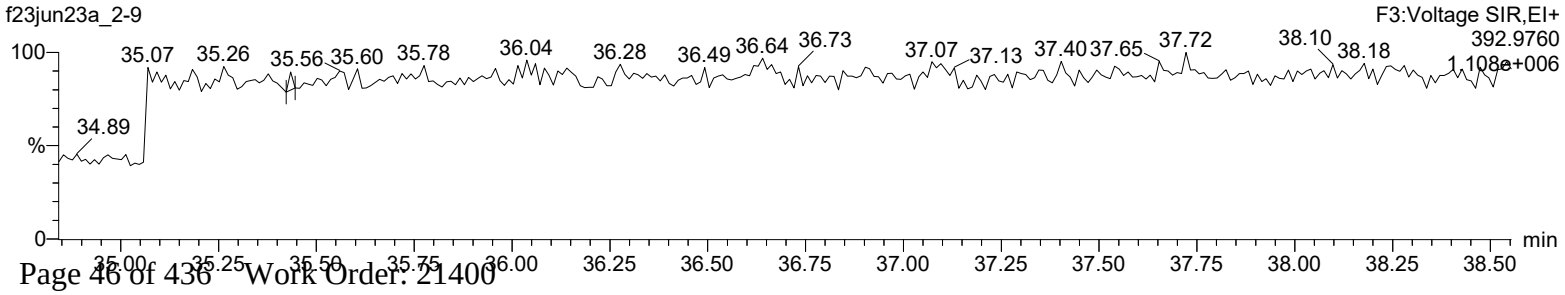


Lock Mass F3



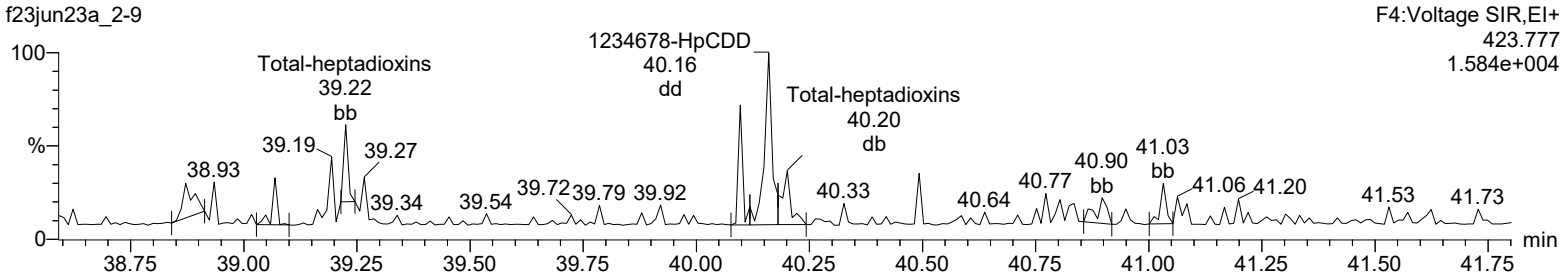
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

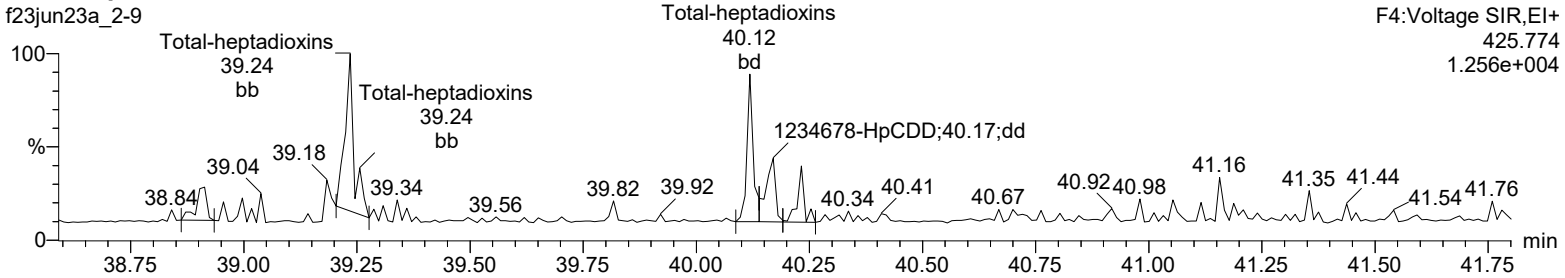
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

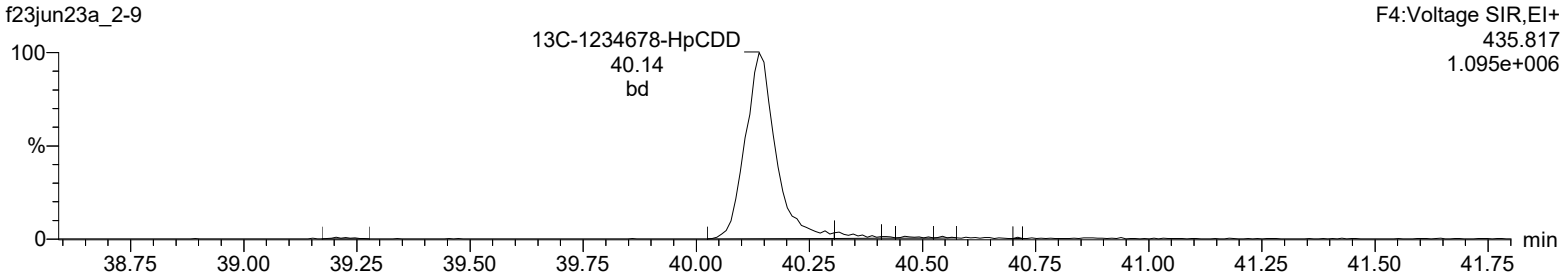
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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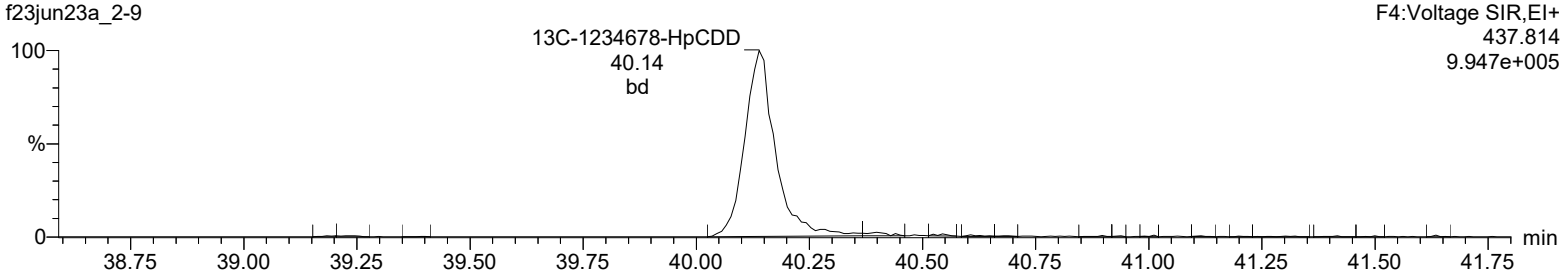
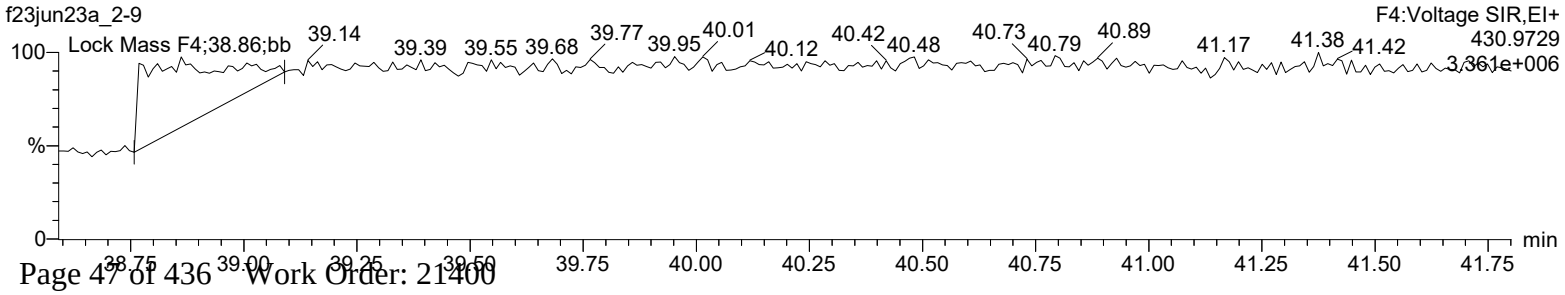


Lock Mass F4



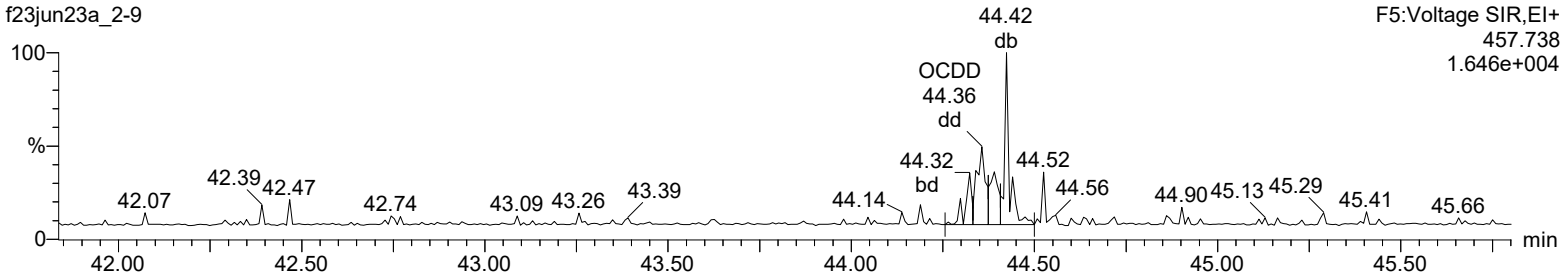
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

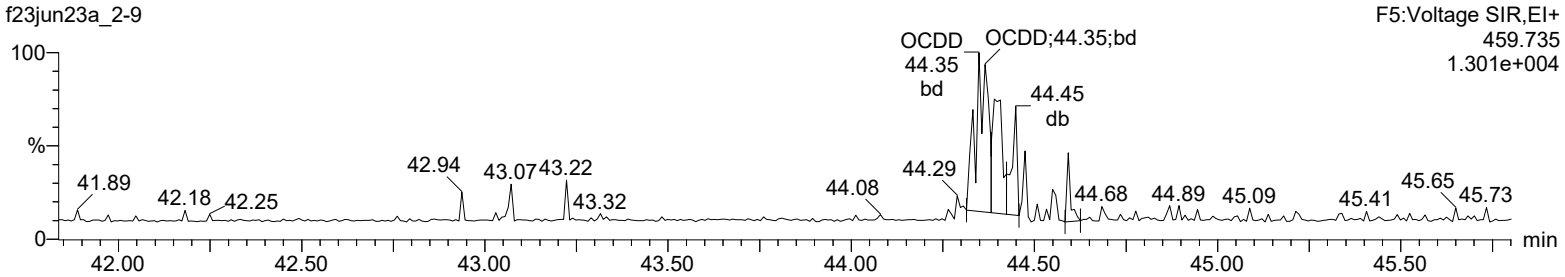
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

OCDD



OCDD



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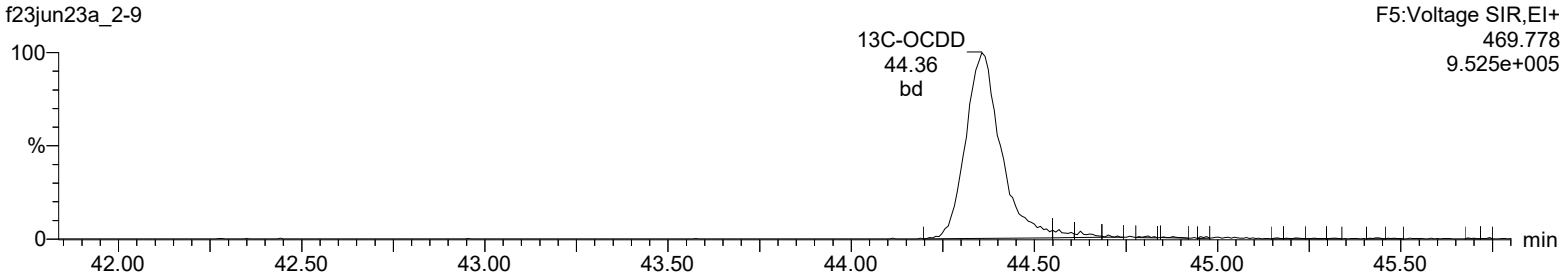
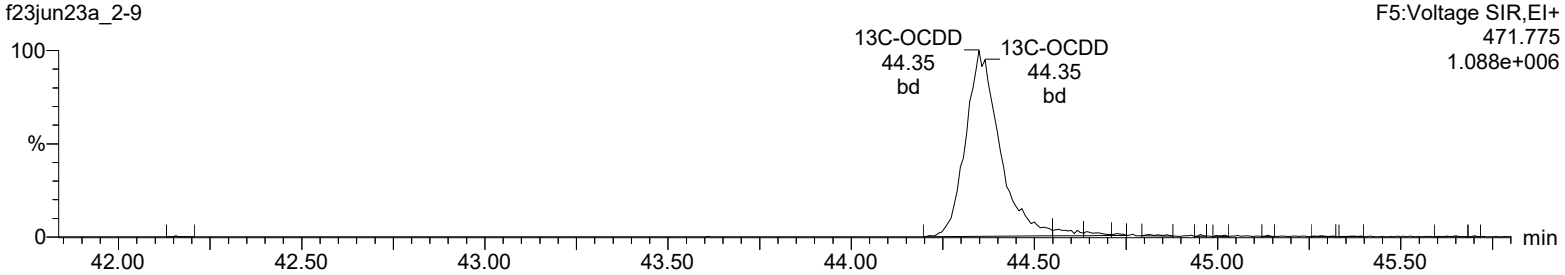
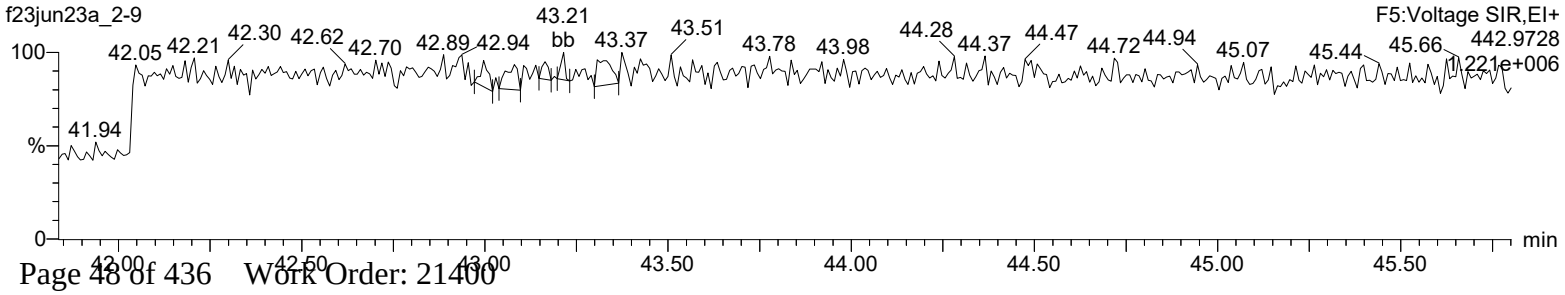


13C-OCDD



Lock Mass F5



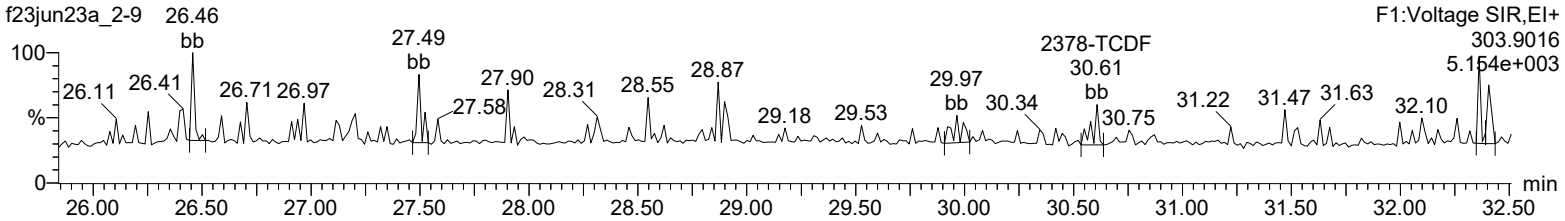
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

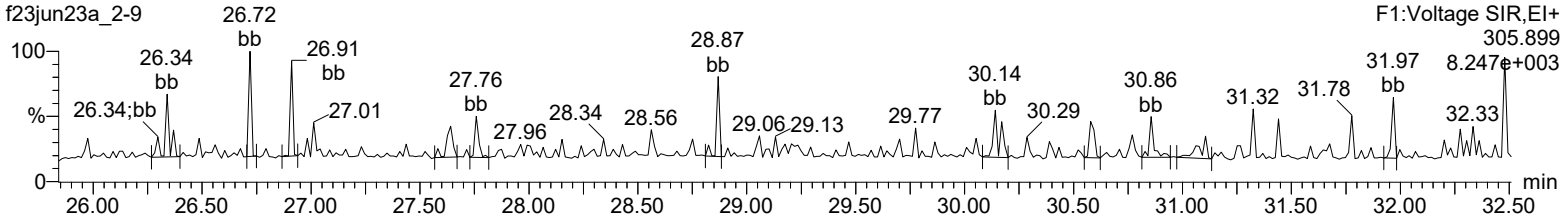
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

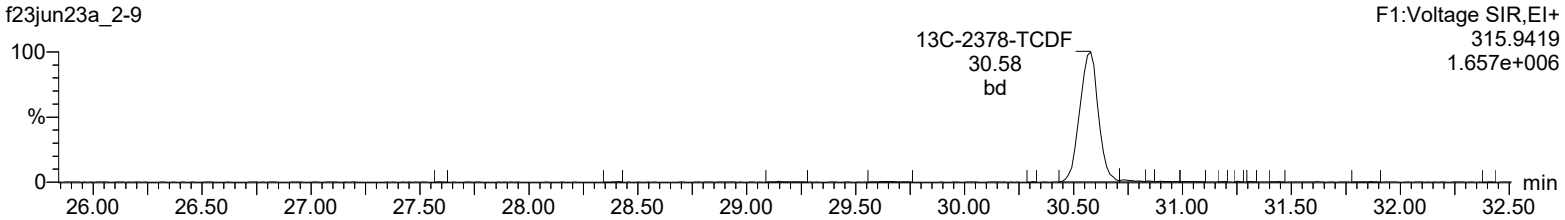
Total-tetrafurans



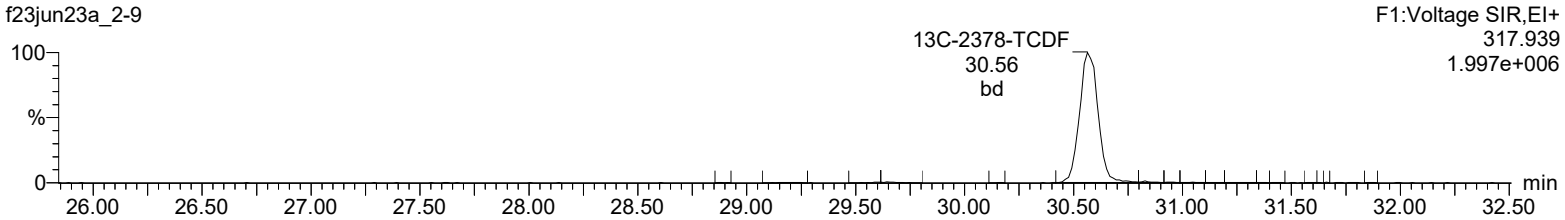
Total-tetrafurans



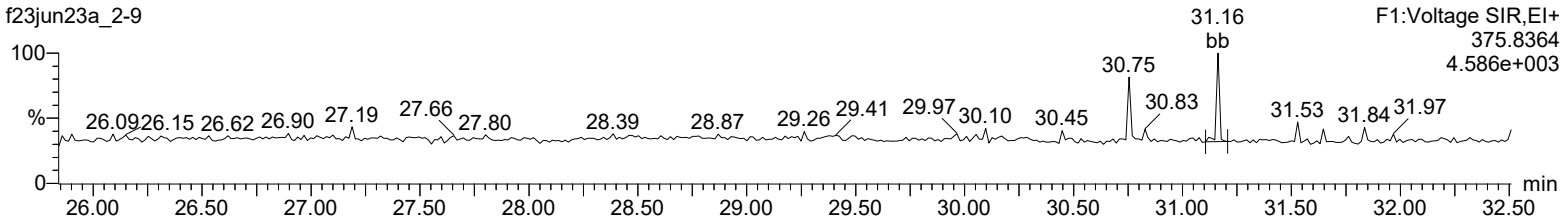
13C-2378-TCDF



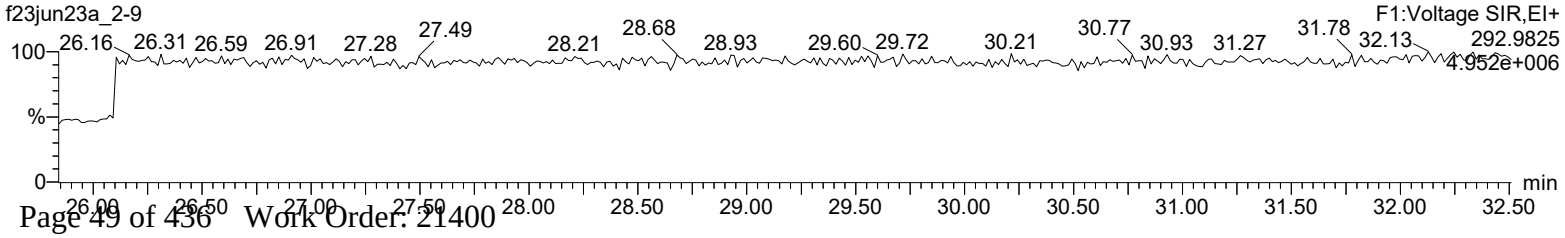
13C-2378-TCDF



HxDPE



Lock Mass F1



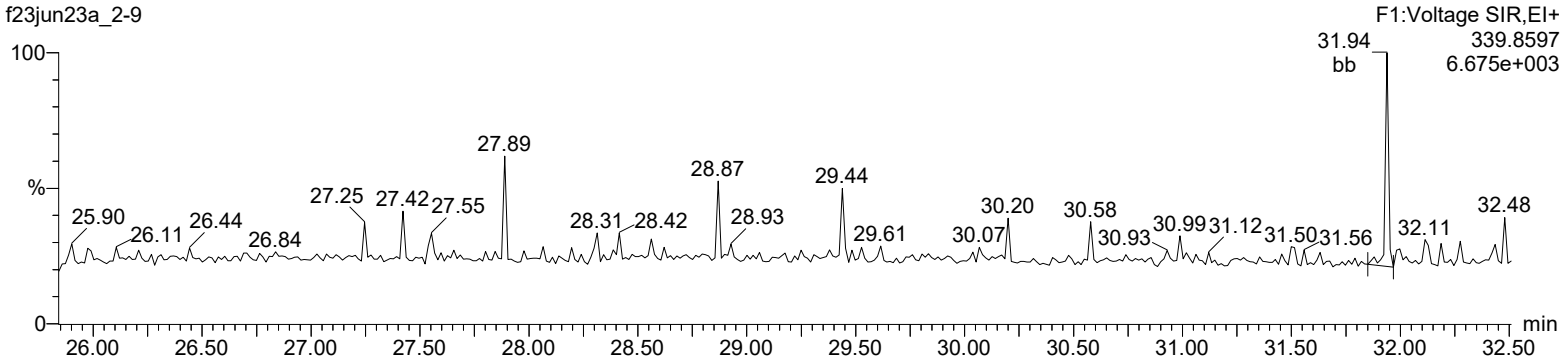
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

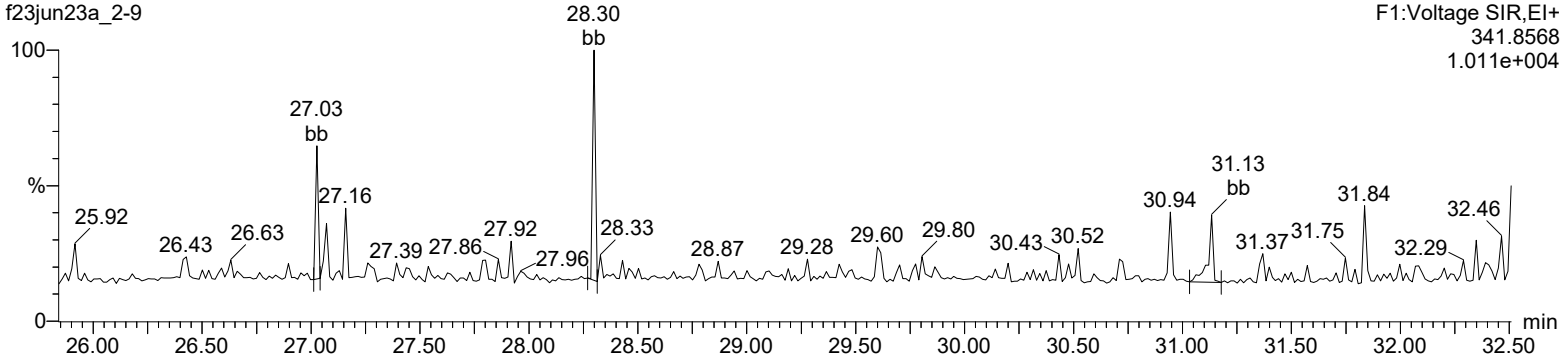
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

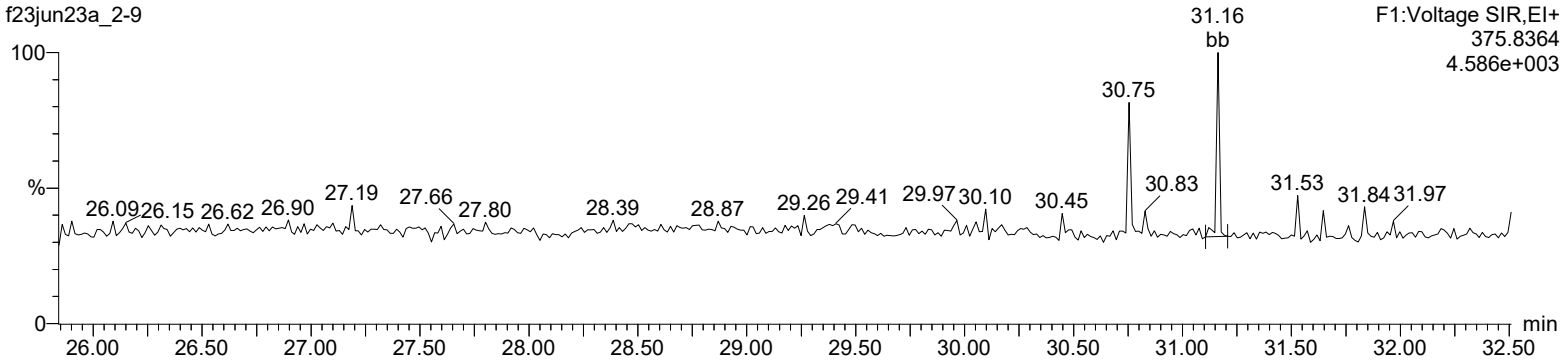
Total-pentafurans (F1)



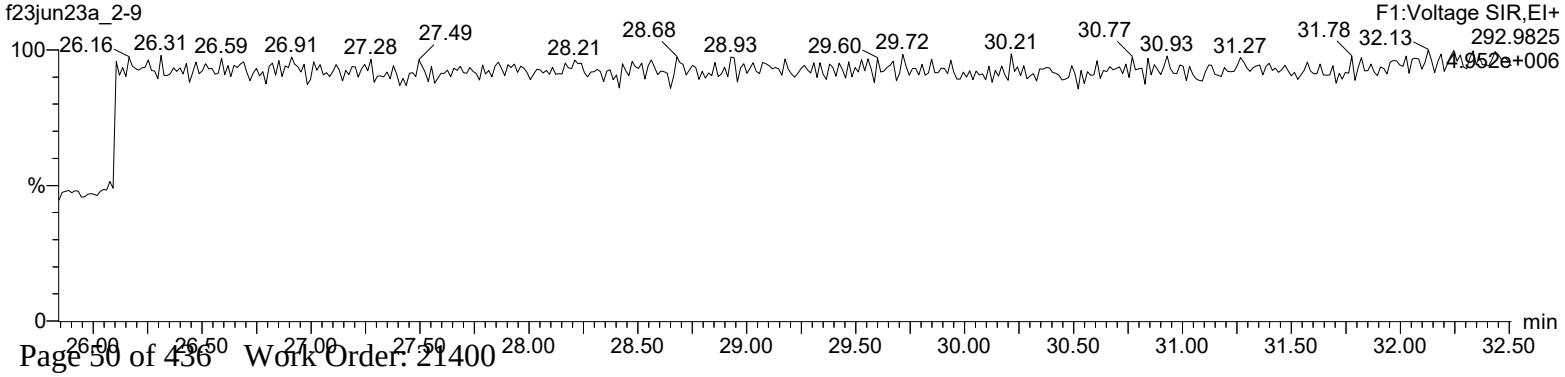
Total-pentafurans (F1)



HxDPE



Lock Mass F1



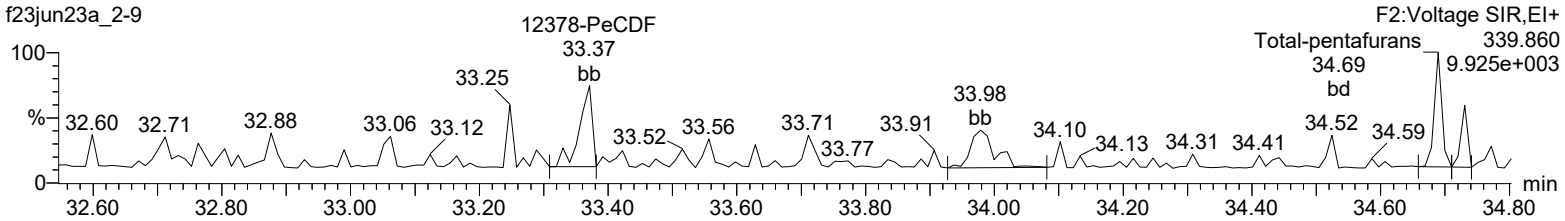
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

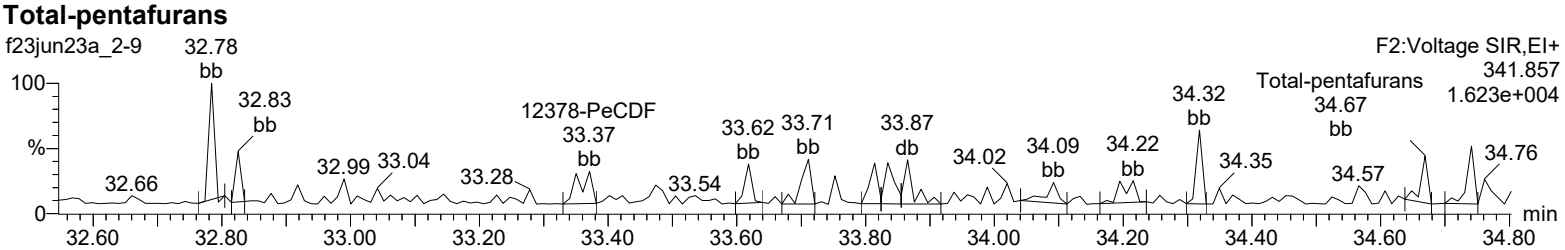
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

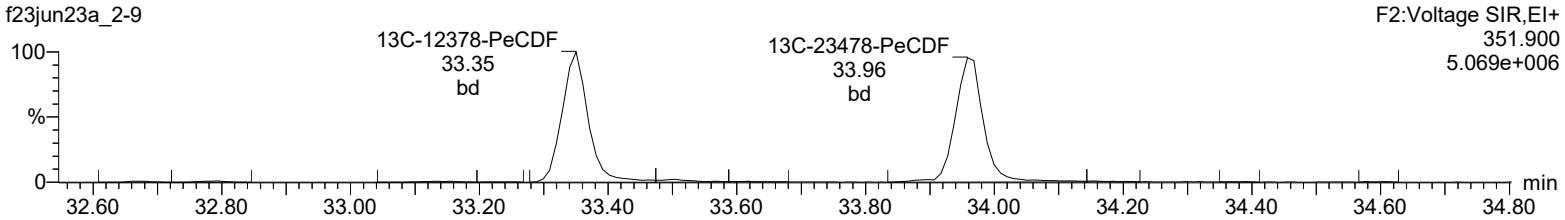
Total-pentafurans



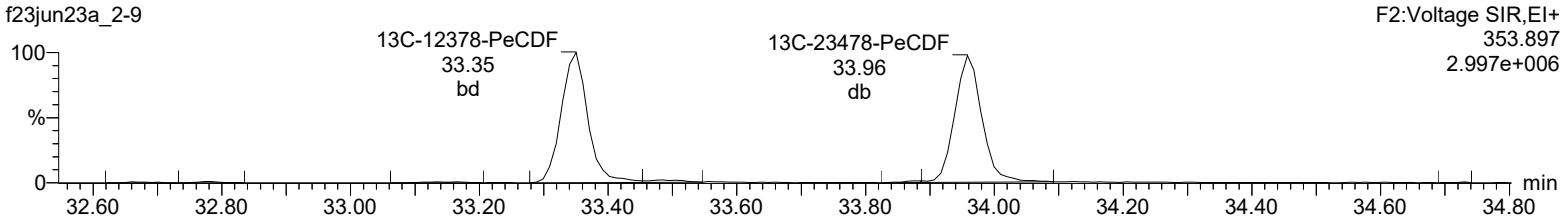
Total-pentafurans



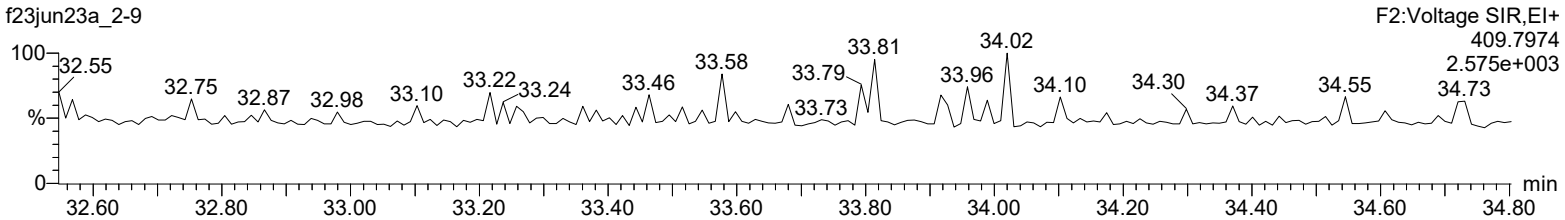
13C-12378-PeCDF



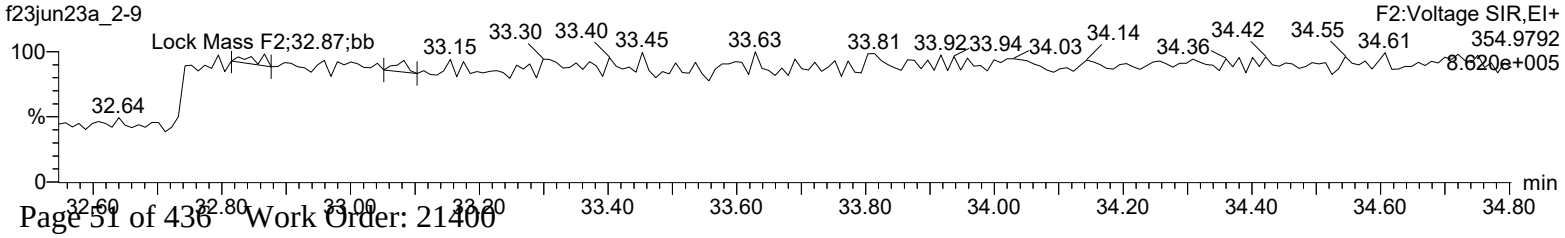
13C-12378-PeCDF



HpDPE



Lock Mass F2



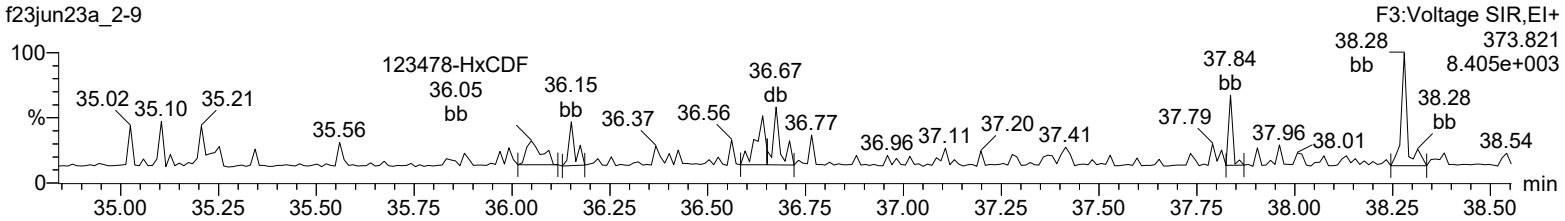
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

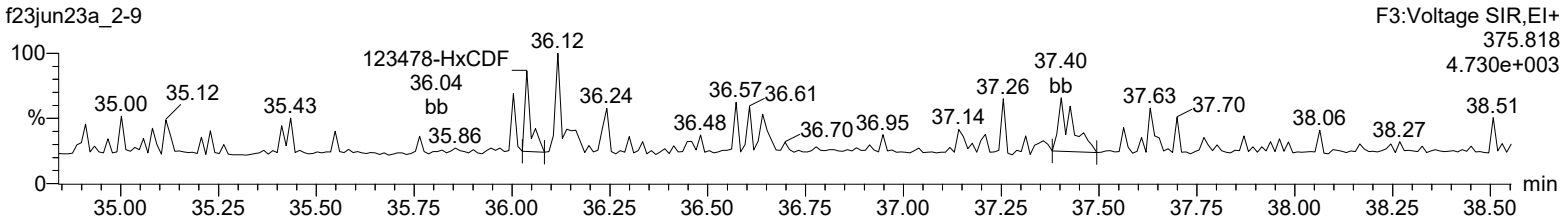
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

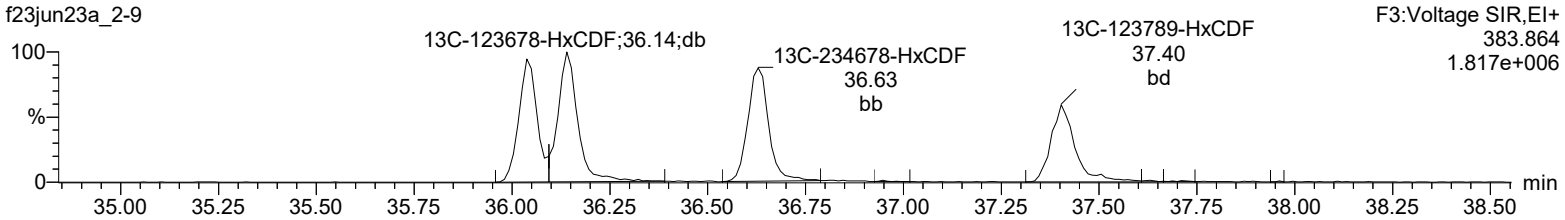
Total-hexafurans



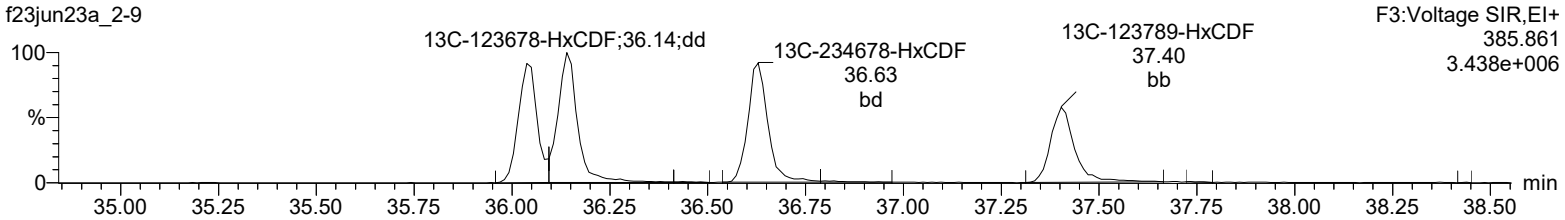
Total-hexafurans



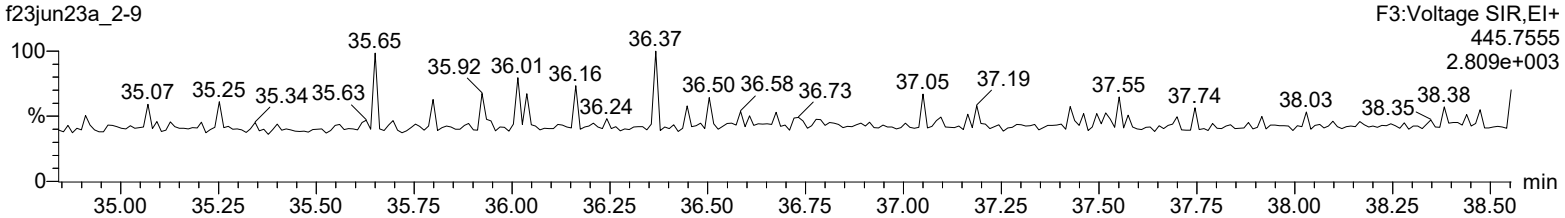
13C-123478-HxCDF



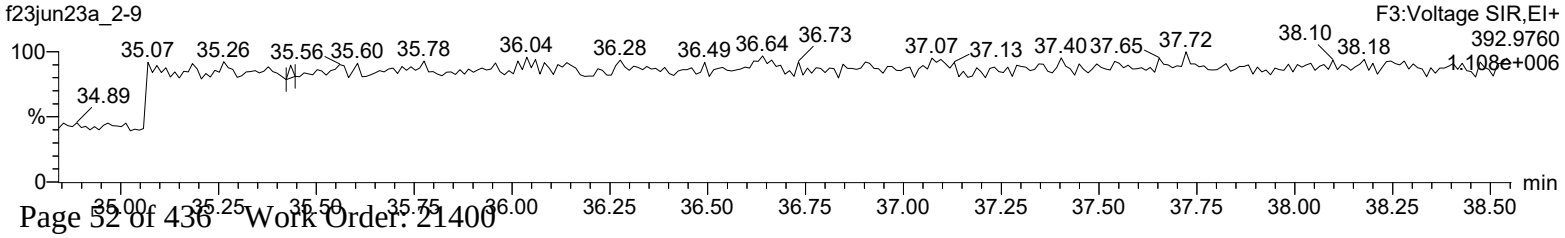
13C-123478-HxCDF



OcDPE



Lock Mass F3



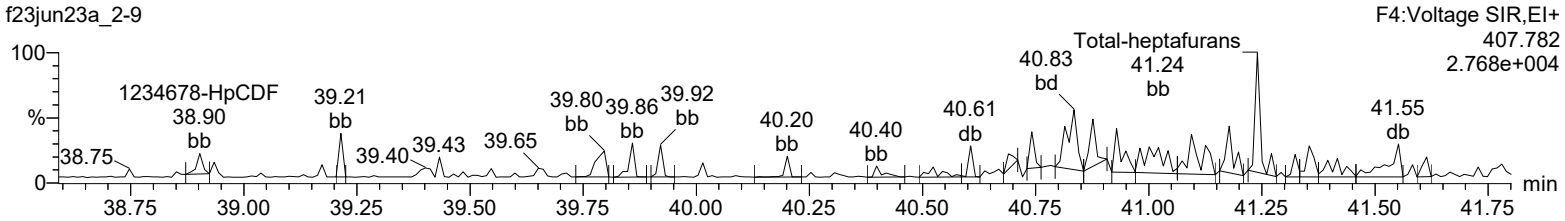
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

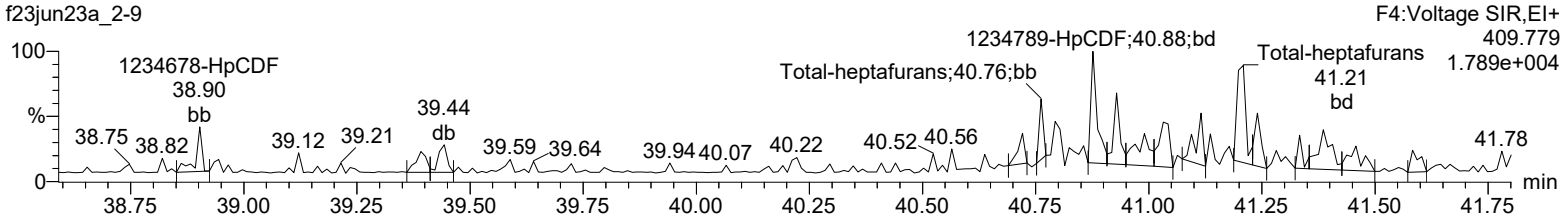
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

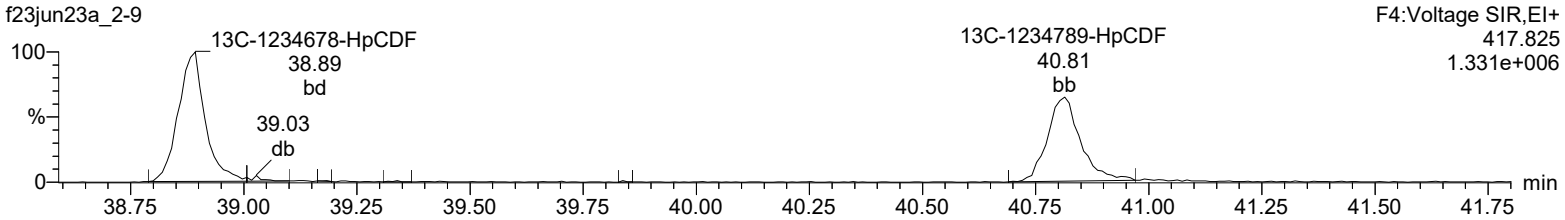
Total-heptafurans



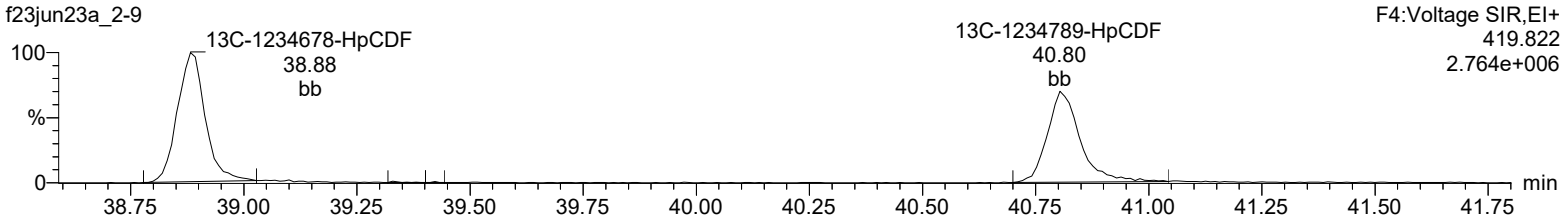
Total-heptafurans



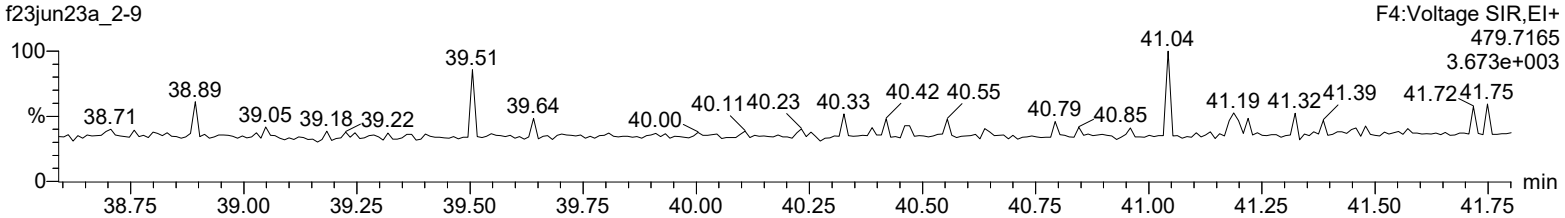
13C-1234678-HpCDF



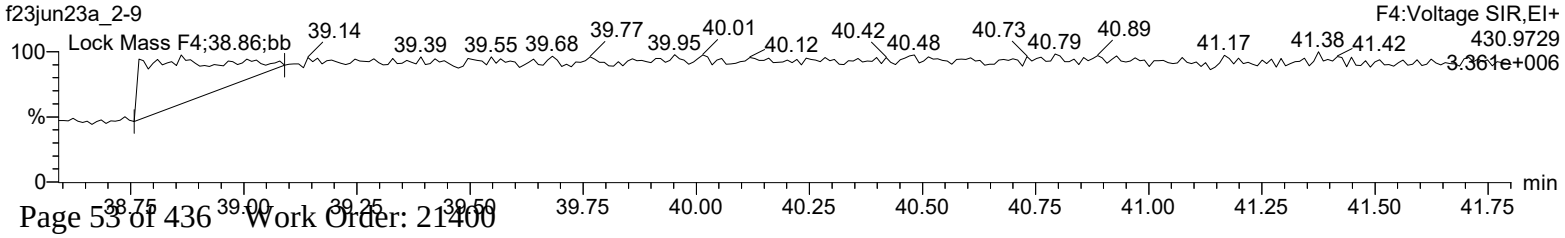
13C-1234678-HpCDF



NoDPE



Lock Mass F4



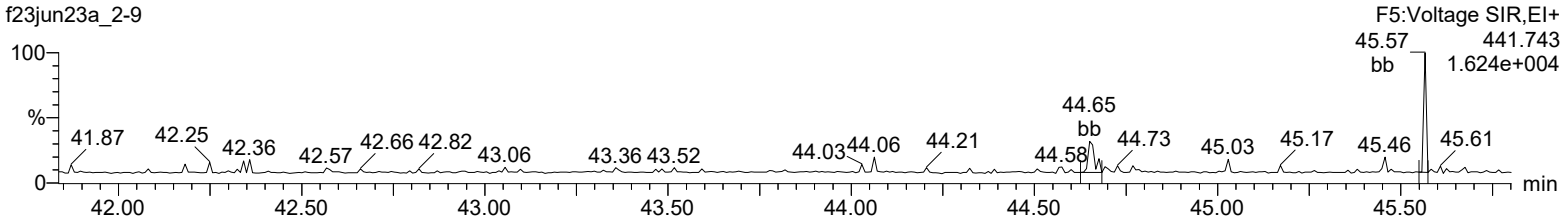
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

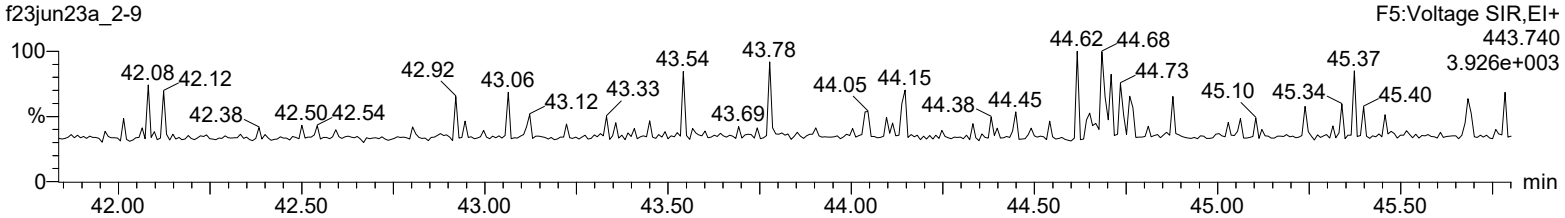
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-9, Date: 24-Jun-2023, Time: 03:47:34, ID: 21400001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

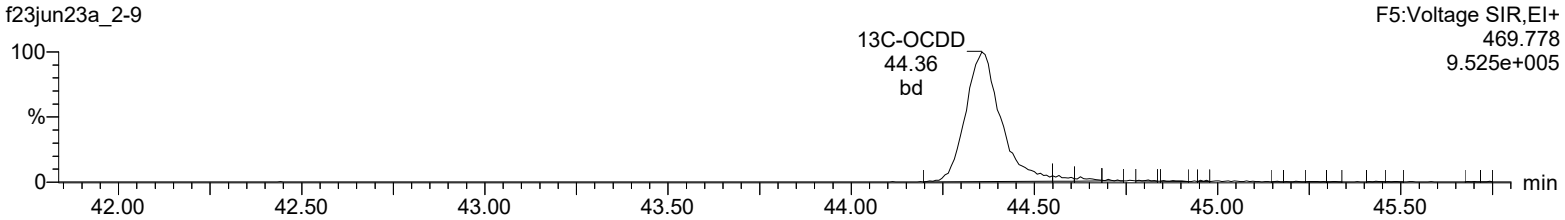
OCDF



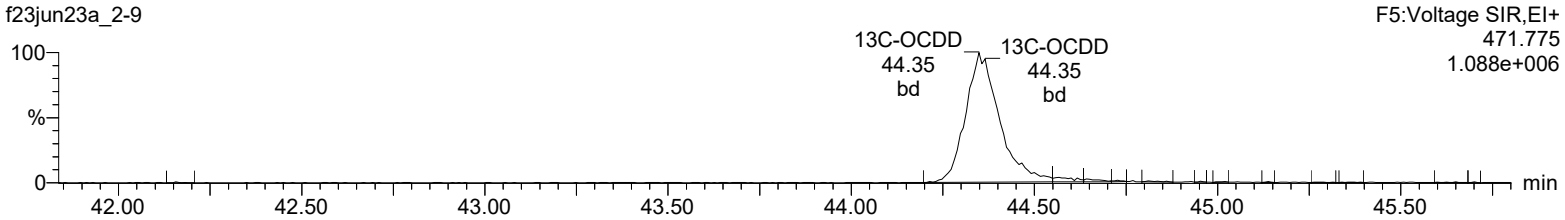
OCDF



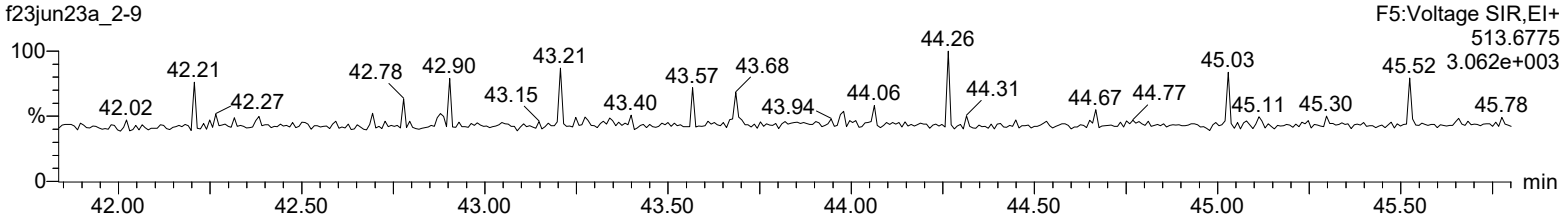
13C-OCDD



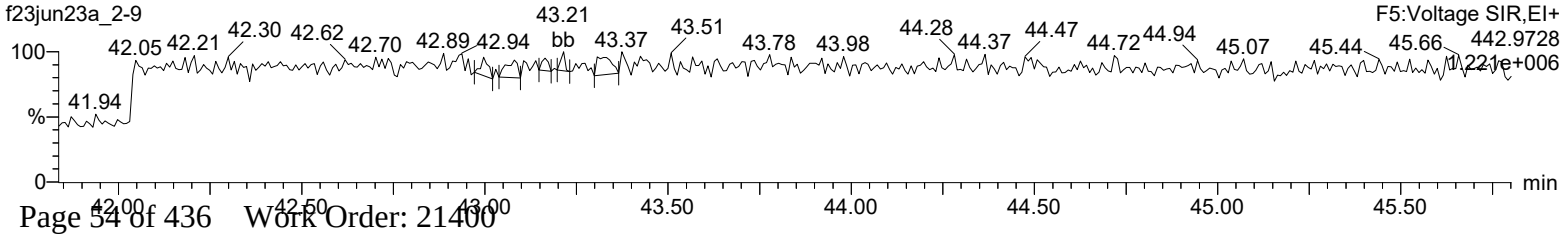
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400002**	**Date Collected:**	**03/09/2023 16:26**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR186-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 04:36**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-10**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1022.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.19	pg/L	2.19	4.89
40321-76-4	1,2,3,7,8-PeCDD	U	2.21	pg/L	2.21	24.5
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.29	pg/L	3.29	48.9
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.13	pg/L	3.13	48.9
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.21	pg/L	3.21	48.9
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	9.10	pg/L	6.75	48.9
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	42.6	pg/L	14.5	97.8
51207-31-9	2,3,7,8-TCDF	U	2.43	pg/L	2.43	9.78
57117-41-6	1,2,3,7,8-PeCDF	U	2.72	pg/L	2.72	48.9
57117-31-4	2,3,4,7,8-PeCDF	U	2.52	pg/L	2.52	48.9
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.46	pg/L	1.46	48.9
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.53	pg/L	1.53	48.9
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.45	pg/L	1.45	48.9
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.62	pg/L	2.62	48.9
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	6.81	pg/L	6.81	48.9
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	10.9	pg/L	10.9	48.9
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.05	pg/L	4.05	97.8
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.19	pg/L	2.19	9.78
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.21	pg/L	2.21	48.9
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.13	pg/L	3.13	48.9
TCDF	Total Tetrachlorodibenzofuran	U	2.43	pg/L	2.43	9.78
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	9.10	pg/L	6.75	48.9
30402-15-4	Total Pentachlorodibenzofuran	U	2.52	pg/L	2.52	48.9
55684-94-1	Total Hexachlorodibenzofuran	U	1.45	pg/L	1.45	48.9
38998-75-3	Total Heptachlorodibenzofuran	U	6.81	pg/L	6.81	48.9
TEQ	TEQ WHO2005 ND=0		0.104	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.77	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1300	1960	pg/L	66.5	(25%-164%)
13C-1,2,3,7,8-PeCDD		1460	1960	pg/L	74.5	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1410	1960	pg/L	72.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1370	1960	pg/L	70.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1350	1960	pg/L	69.2	(23%-140%)
13C-OCDD		2280	3910	pg/L	58.3	(17%-157%)
13C-2,3,7,8-TCDF		1240	1960	pg/L	63.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		1350	1960	pg/L	68.8	(24%-185%)
13C-2,3,4,7,8-PeCDF		1450	1960	pg/L	74.1	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1430	1960	pg/L	73.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1290	1960	pg/L	65.9	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1450	1960	pg/L	74.0	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1270	1960	pg/L	65.1	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400002**	**Date Collected:**	**03/09/2023 16:26**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR186-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 04:36**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-10**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1022.2 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1300	1960	pg/L	66.6	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1340	1960	pg/L	68.5	(26%-138%)
37Cl-2,3,7,8-TCDD		171	196	pg/L	87.6	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-9.qld

Last Altered: Wednesday, June 28, 2023 9:48:58 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:06:21 PM Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.112		911			618			
2	12378-PeCDD							NO		0.113		1083			668			
3	123478-HxCDD							NO		0.168		929			974			
4	123678-HxCDD							NO		0.160		929			974			
5	123789-HxCDD							NO		0.164		929			974			
6	1234678-HpCDD	3.44e2	4.19e2	7.63e2	40.12	0.999	0.82	YES	0.465	0.345	8.43e3	1692	5.0	1.30e4	1135	11.5	MM	MM
7	OCDD	9.95e2	1.22e3	2.21e3	44.37	1.000	0.82	NO	2.176	0.739	1.03e4	1170	8.8	1.76e4	1663	10.6	MM	MM
8	2378-TCDF							NO		0.124		1144			857			
9	12378-PeCDF	1.50e2	8.54e1	2.36e2	33.34	1.000	1.76	NO	0.060	0.139	6.77e3	1944	3.5	3.37e3	2506	1.3	bb	bb
10	23478-PeCDF							NO		0.129		1944			2506			
11	123478-HxCDF							NO		0.0745		923			825			
12	123678-HxCDF							NO		0.0782		923			825			
13	234678-HxCDF							NO		0.0741		923			825			
14	123789-HxCDF							NO		0.134		923			825			
15	1234678-HpCDF							NO		0.348		3638			3158			
16	1234789-HpCDF	1.71e2	2.53e2	4.24e2	40.85	1.001	0.67	YES	0.157	0.555	8.75e3	3638	2.4	8.83e3	3158	2.8	dd	bb
17	OCDF							NO		0.207		596			657			
18	13C-2378-TCDD	8.75e4	1.11e5	1.99e5	31.28	1.017	0.79	NO	66.513	0.319	1.36e6	3101	438.8	1.75e6	1866	935.6	bb	bd
19	13C-12378-PeCDD	9.72e4	6.19e4	1.59e5	34.15	1.110	1.57	NO	74.527	0.558	2.03e6	4077	498.3	1.18e6	2122	556.3	bb	bd
20	13C-123478-HxCDD	8.32e4	6.44e4	1.48e5	36.76	0.991	1.29	NO	72.129	0.578	1.48e6	3632	408.8	1.16e6	3224	360.5	bd	bd
21	13C-123678-HxCDD	9.84e4	7.58e4	1.74e5	36.85	0.994	1.30	NO	70.233	0.477	1.58e6	3632	433.8	1.25e6	3224	386.5	dd	dd
22	13C-1234678-HpCDD	6.81e4	6.56e4	1.34e5	40.15	1.083	1.04	NO	69.163	0.654	8.49e5	3828	221.8	7.81e5	3496	223.3	bd	bd
23	13C-OCDD	8.83e4	9.53e4	1.84e5	44.36	1.196	0.93	NO	116.570	0.761	8.32e5	3223	258.3	8.87e5	3732	237.8	bd	bd
24	13C-2378-TCDF	1.29e5	1.61e5	2.89e5	30.56	0.993	0.80	NO	63.590	0.216	1.32e6	2550	519.5	1.61e6	2574	626.9	bd	bd
25	13C-12378-PeCDF	1.94e5	1.16e5	3.11e5	33.35	1.084	1.67	NO	68.810	0.748	3.93e6	9281	424.0	2.57e6	8262	311.3	bb	bd
26	13C-23478-PeCDF	1.96e5	1.19e5	3.15e5	33.97	1.104	1.65	NO	74.078	0.794	3.84e6	9281	413.3	2.30e6	8262	278.5	bb	bb
27	13C-123478-HxCDF	8.01e4	1.47e5	2.28e5	36.05	0.972	0.54	NO	72.989	0.697	1.46e6	6663	218.6	2.67e6	5936	449.9	bd	bd
28	13C-123678-HxCDF	9.04e4	1.64e5	2.54e5	36.14	0.975	0.55	NO	65.924	0.563	1.44e6	6663	216.3	2.67e6	5936	449.8	dd	db
29	13C-234678-HxCDF	8.28e4	1.56e5	2.39e5	36.63	0.988	0.53	NO	74.026	0.673	1.44e6	6663	215.5	2.61e6	5936	439.7	bd	bb
30	13C-123789-HxCDF	6.42e4	1.23e5	1.87e5	37.40	1.009	0.52	NO	65.095	0.756	8.57e5	6663	128.7	1.73e6	5936	292.0	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-9.qld

Last Altered: Wednesday, June 28, 2023 9:48:58 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:06:21 PM Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	7.67e4	1.70e5	2.47e5	38.88	1.048	0.45	NO	66.552	0.653	1.10e6	5888	186.0	2.49e6	8170	305.0	bd	bb
32	13C-1234789-HpCDF	6.26e4	1.36e5	1.98e5	40.81	1.101	0.46	NO	68.535	0.838	7.08e5	5888	120.3	1.58e6	8170	193.5	bb	bd
33	13C-1234-TCDD	1.19e5	1.44e5	2.63e5	30.77	0.000	0.83	NO	100.000	0.364	1.54e6	3101	498.1	1.78e6	1866	955.1	bb	bb
34	13C-123789-HxCDD	1.34e5	1.07e5	2.41e5	37.08	0.000	1.25	NO	100.000	0.490	1.94e6	3632	534.8	1.47e6	3224	454.4	dd	dd
35	37Cl-2378-TCDD	2.58e4		2.58e4	31.30	1.017			8.759	0.0826	4.08e5	1267	322.2				bb	

Reasons for Analyst Intervention

Name:f23jun23a_2-10, ID:21400002-1, Description: 52698

M	M2
6 1234678-HpCDD 40.12 - AB	6 1234678-HpCDD 40.12 - AB
7 OCDD 44.37 - AB	7 OCDD 44.37 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-9.qld

Last Altered: Wednesday, June 28, 2023 9:48:58 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:06:21 PM Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentadioxins	7.14e1	8.01e1	1.52e2	33.92	0.89	YES	0.082	0.113	3.37e3	1083	3.1	3.26e3	668	4.9	bb	bb

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	2.44e2	1.91e2	4.34e2	39.24	1.28	YES	0.265	0.345	4.56e3	1692	2.7	6.49e3	1135	5.7	bb	MM
2	1234678-HpCDD	3.44e2	4.19e2	7.63e2	40.12	0.82	YES	0.465	0.345	8.43e3	1692	5.0	1.30e4	1135	11.5	MM	MM

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	6.55e1	5.93e1	1.25e2	30.77	1.11	YES	0.032	0.124	2.06e3	1144	1.8	1.80e3	857	2.1	bb	bb
2	Total-tetrafurans	9.90e1	6.15e1	1.61e2	32.00	1.61	YES	0.041	0.124	5.99e3	1144	5.2	2.27e3	857	2.6	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-9.qld

Last Altered: Wednesday, June 28, 2023 9:48:58 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:06:21 PM Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	12378-PeCDF	1.50e2	8.54e1	2.36e2	33.34	1.76	NO	0.060	0.139	6.77e3	1944	3.5	3.37e3	2506	1.3	bb	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	9.27e1	5.78e1	1.51e2	35.21	1.60	YES	0.048	0.0873	4.04e3	923	4.4	1.68e3	825	2.0	bb	bb

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptafurans	1.01e2	7.04e1	1.71e2	39.41	1.43	YES	0.056	0.440	4.69e3	3638	1.3	4.32e3	3158	1.4	bb	bb
2	Total-heptafurans	5.17e1	8.34e1	1.35e2	39.72	0.62	YES	0.044	0.440	5.00e3	3638	1.4	5.45e3	3158	1.7	bb	bb
3	Total-heptafurans	9.18e1	9.22e1	1.84e2	40.05	1.00	NO	0.060	0.440	8.88e3	3638	2.4	3.37e3	3158	1.1	bb	db
4	Total-heptafurans	2.04e2	1.18e2	3.22e2	40.71	1.73	YES	0.105	0.440	8.64e3	3638	2.4	8.65e3	3158	2.7	bb	bd
5	Total-heptafurans	1.90e2	1.36e2	3.26e2	40.79	1.40	YES	0.107	0.440	6.85e3	3638	1.9	6.43e3	3158	2.0	bd	db
6	1234789-HpCDF	1.71e2	2.53e2	4.24e2	40.85	0.67	YES	0.157	0.555	8.75e3	3638	2.4	8.83e3	3158	2.8	dd	bb
7	Total-heptafurans	2.22e2	8.27e1	3.05e2	41.12	2.69	YES	0.100	0.440	1.08e4	3638	3.0	5.37e3	3158	1.7	bd	bb
8	Total-heptafurans	1.95e2	5.35e1	2.49e2	41.17	3.65	YES	0.081	0.440	9.74e3	3638	2.7	4.14e3	3158	1.3	dd	bd
9	Total-heptafurans	2.77e2	1.26e2	4.03e2	41.20	2.21	YES	0.132	0.440	1.18e4	3638	3.2	5.60e3	3158	1.8	dd	dd
10	Total-heptafurans	9.65e1	1.84e2	2.81e2	41.28	0.52	YES	0.092	0.440	4.54e3	3638	1.2	1.21e4	3158	3.8	db	db

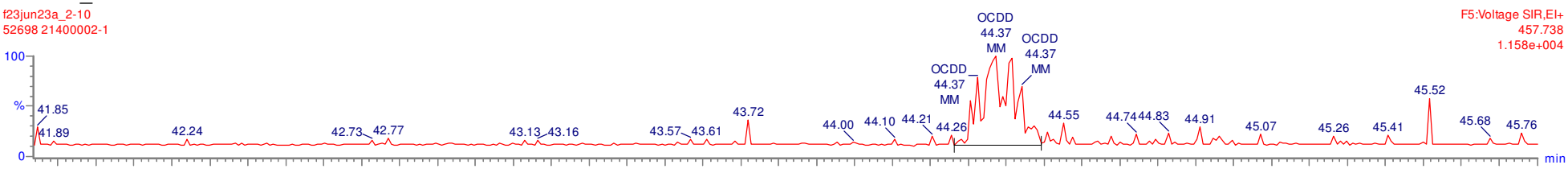
Reasons for Analyst Intervention

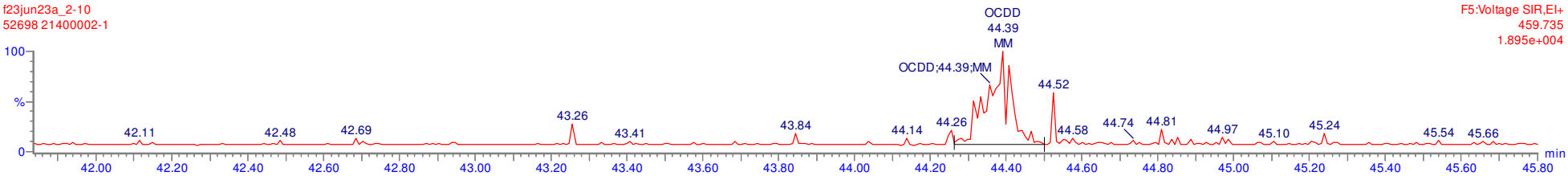
Name:f23jun23a_2-10, ID:21400002-1, Description: 52698

M	M2
	1 Total-heptadioxins 39.24 - AB
2 1234678-HpCDD 40.12 - AB	2 1234678-HpCDD 40.12 - AB

Reason Codes assigned by MW1 on 28-JUN-23

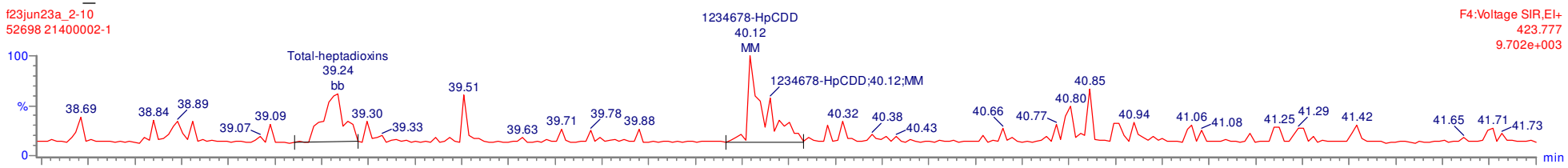
MANUAL INTEGRATION
METHOD 1613
HRP722_2

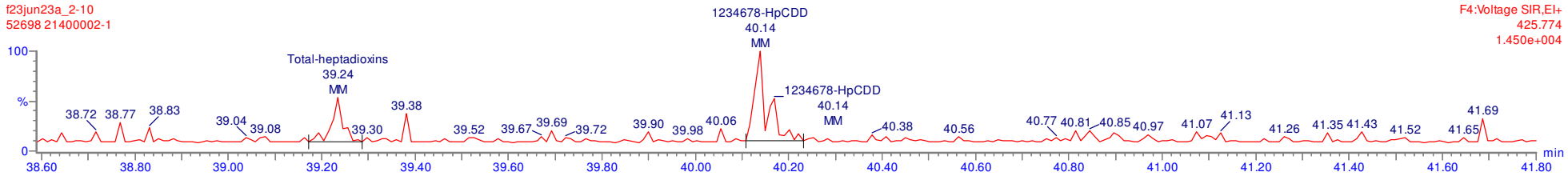




06/28/2023 06/28/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/28/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

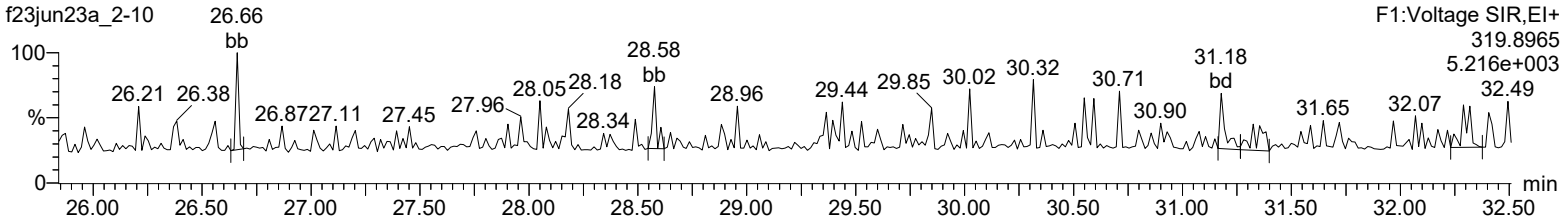
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

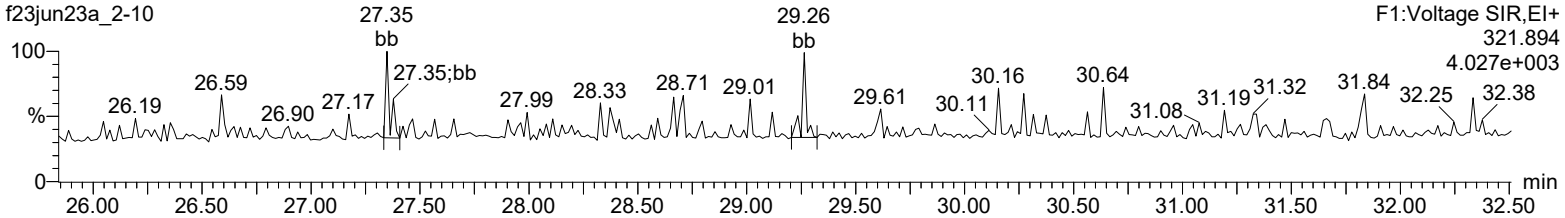
AMA 06/28/2023

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

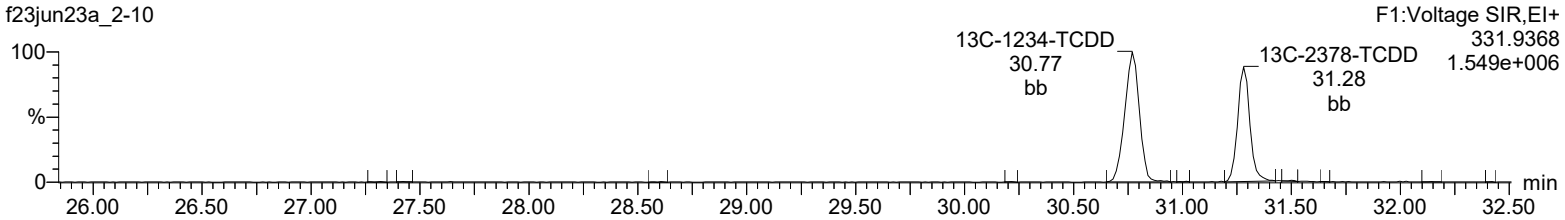
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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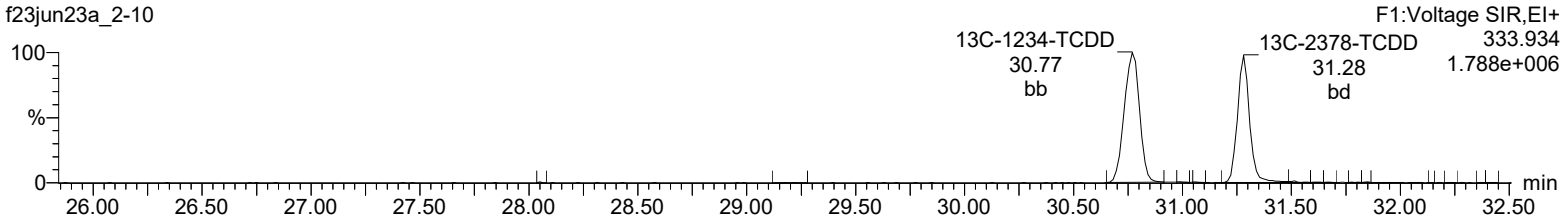
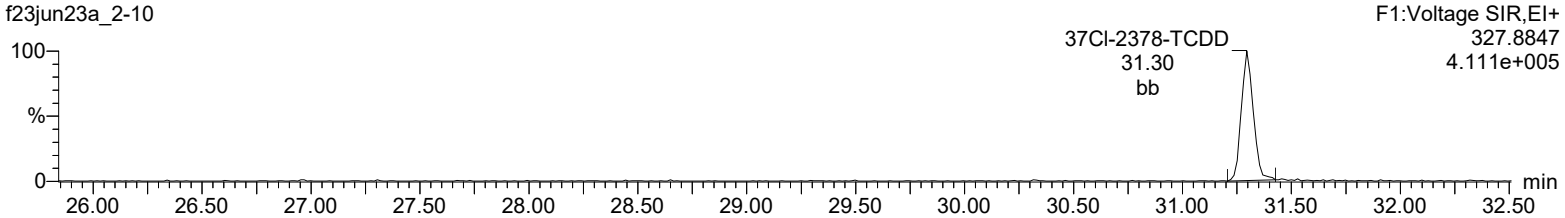
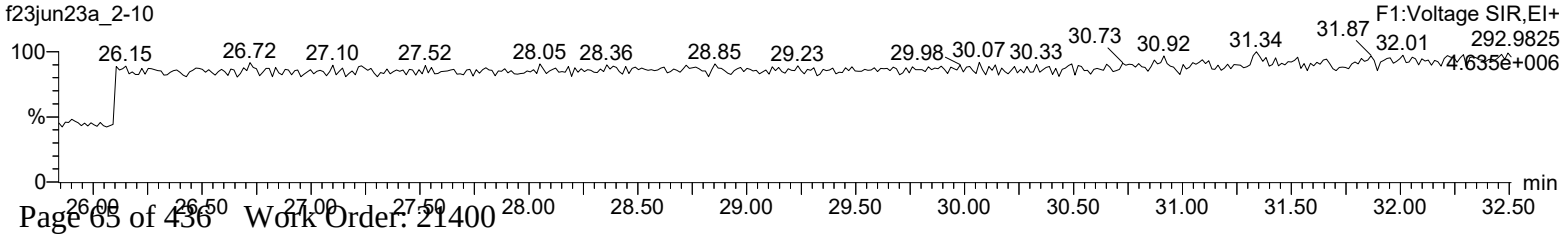


37Cl-2378-TCDD



Lock Mass F1



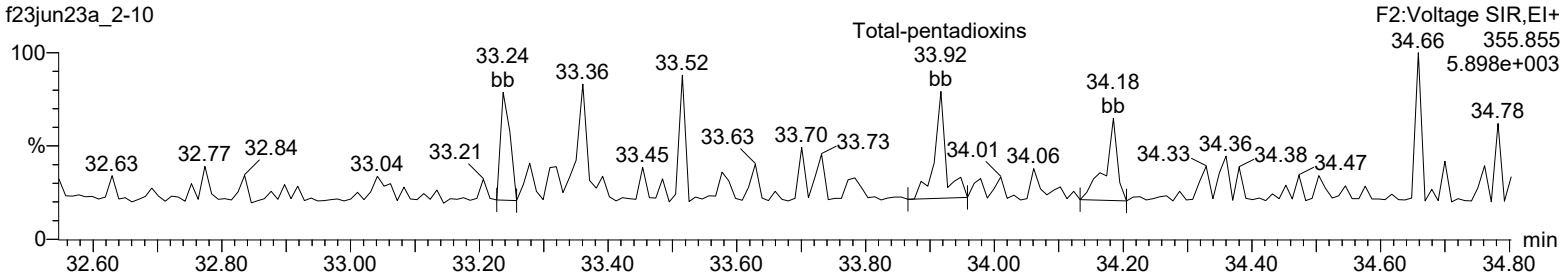
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

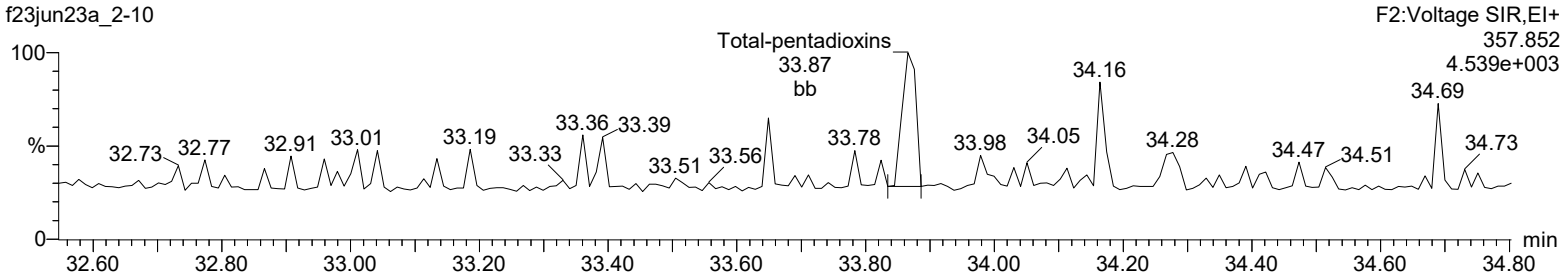
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-pentadioxins



Total-pentadioxins



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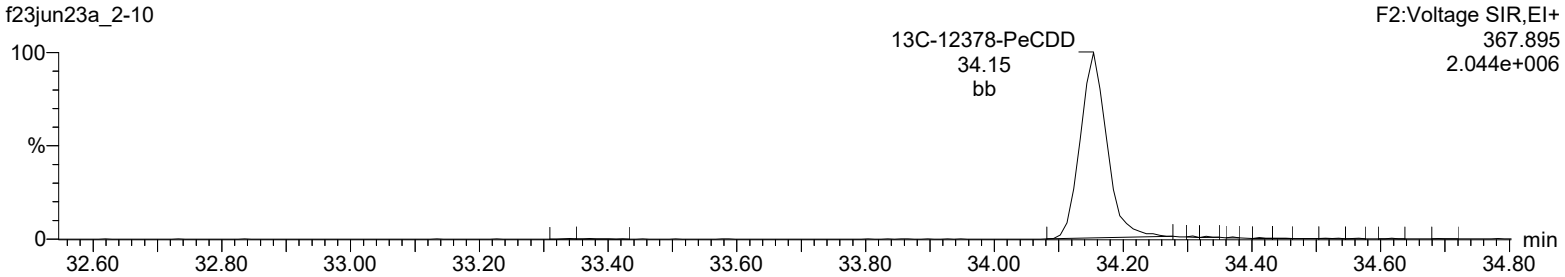

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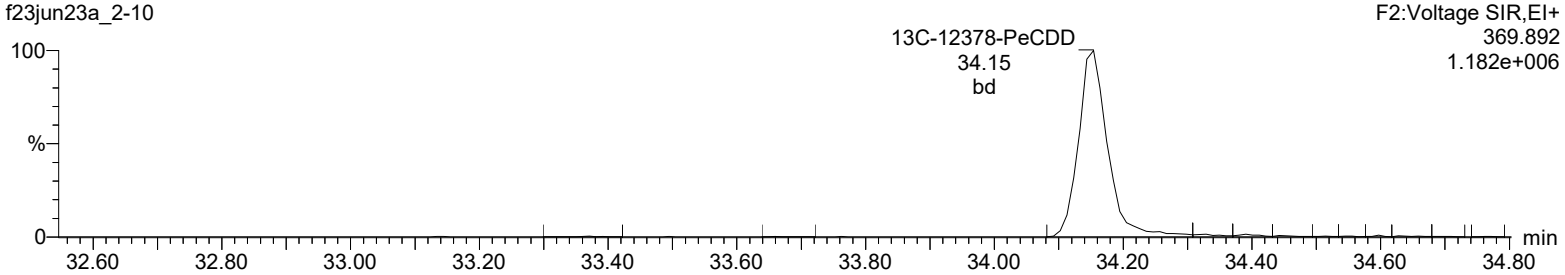
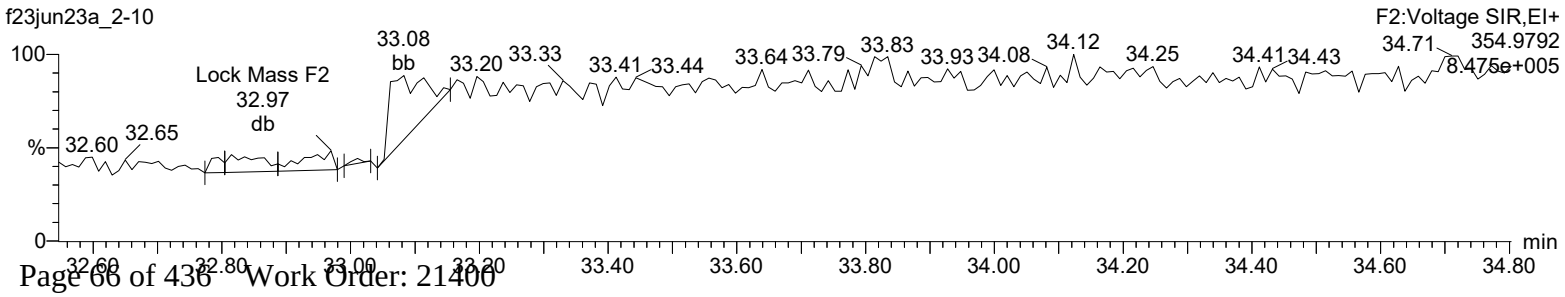


Lock Mass F2



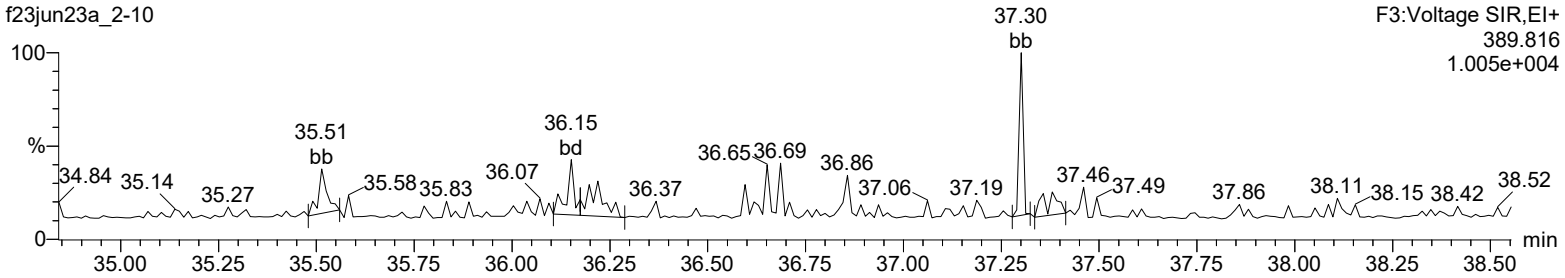
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

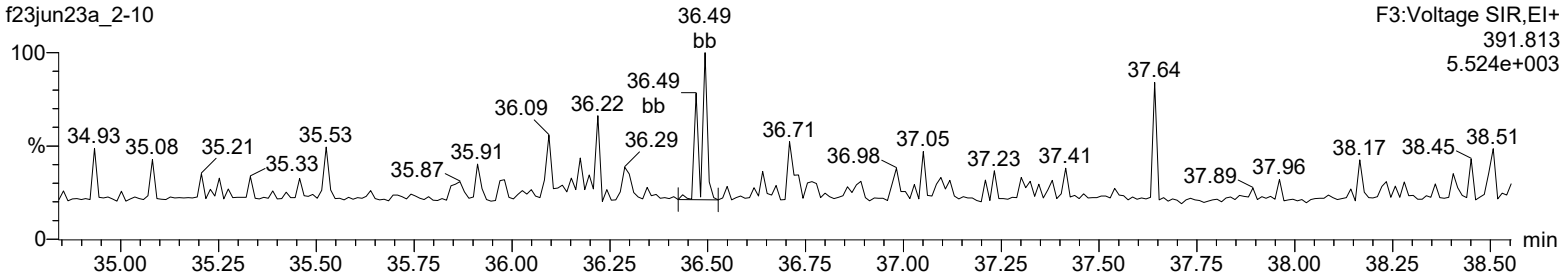
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

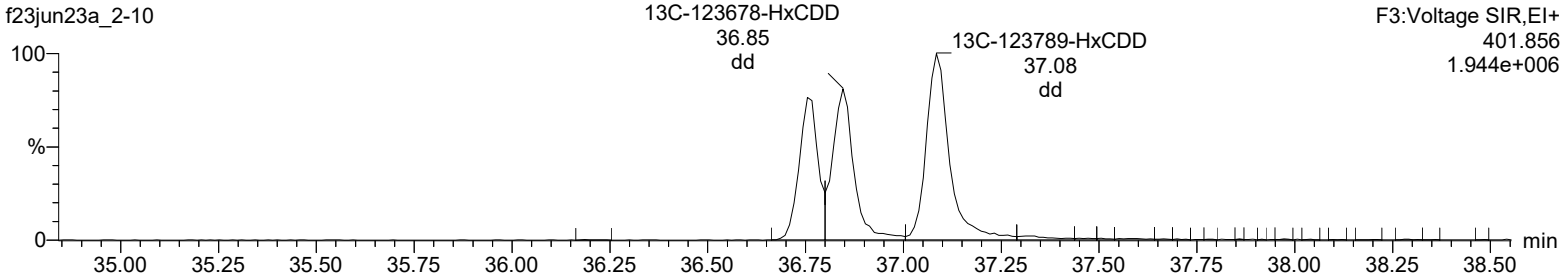
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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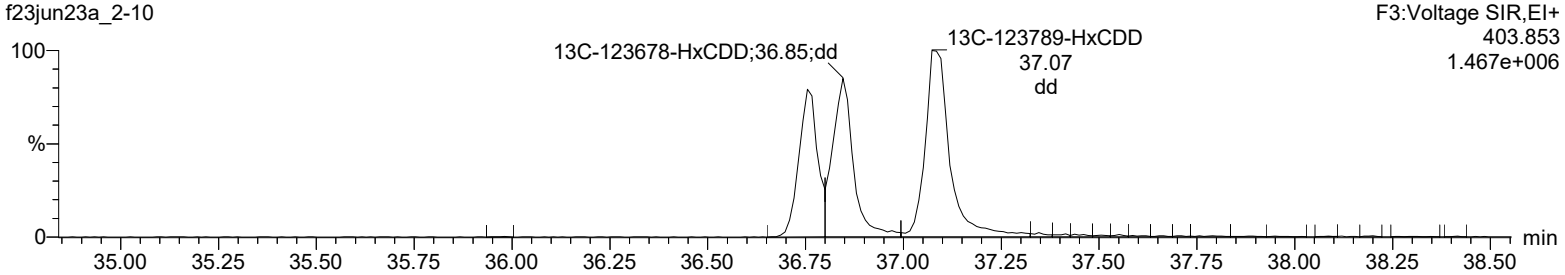
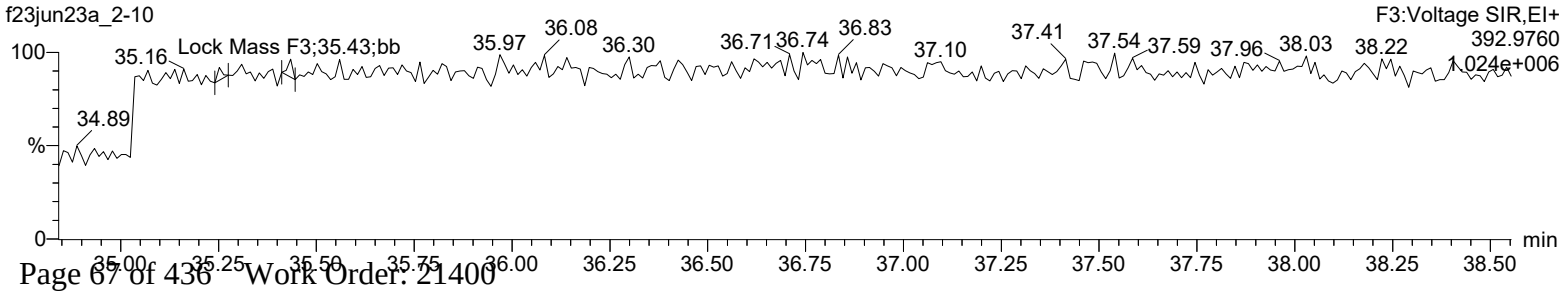


Lock Mass F3



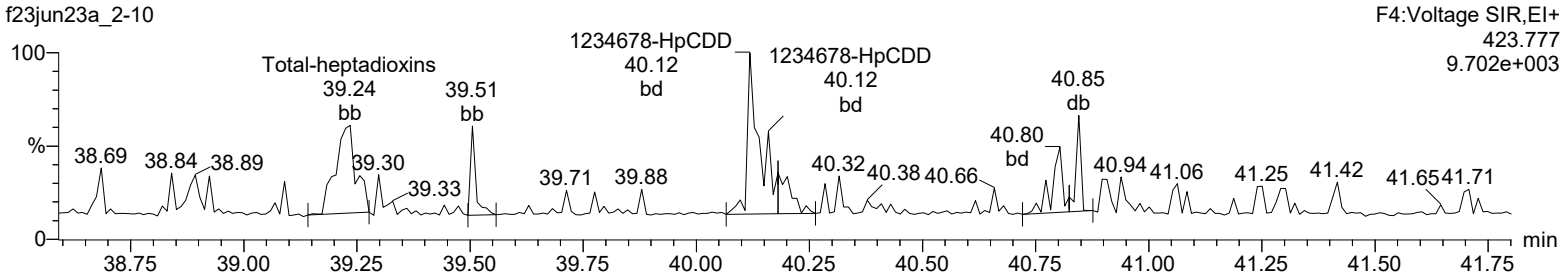
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

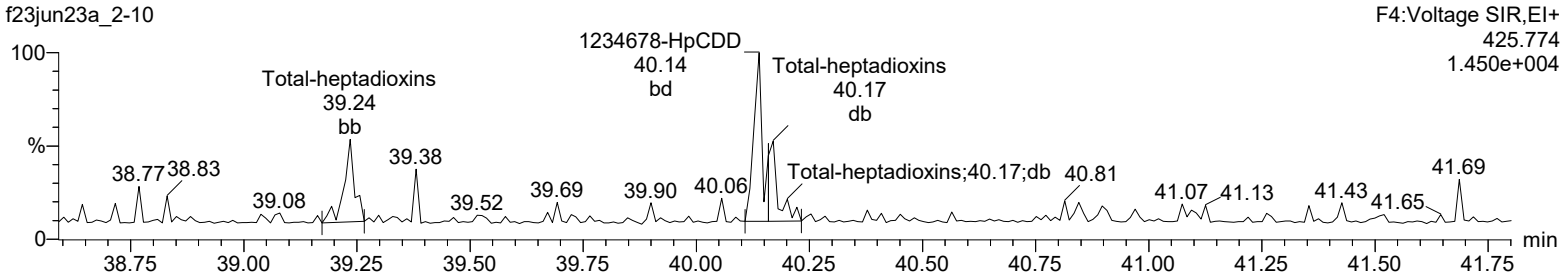
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

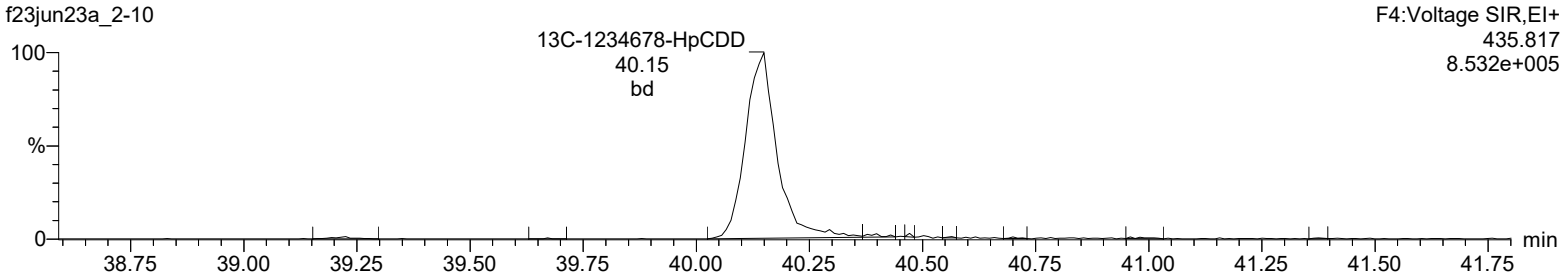
Total-heptadioxins



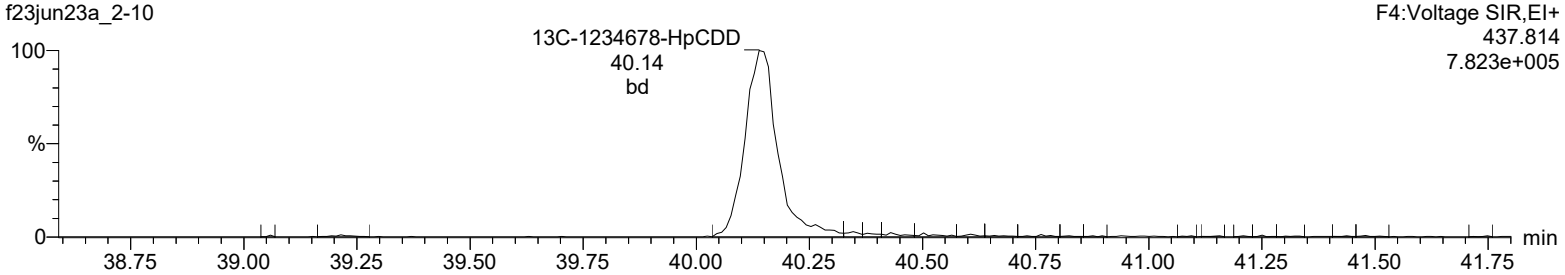
Total-heptadioxins



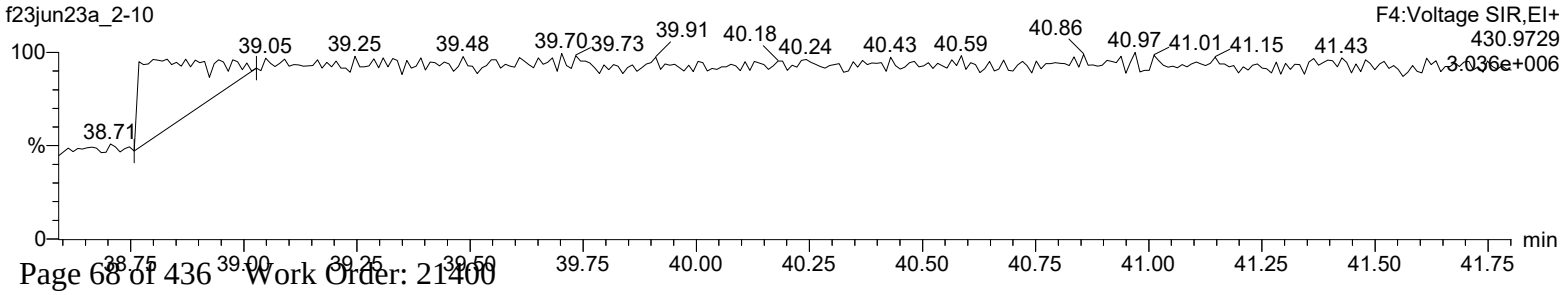
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



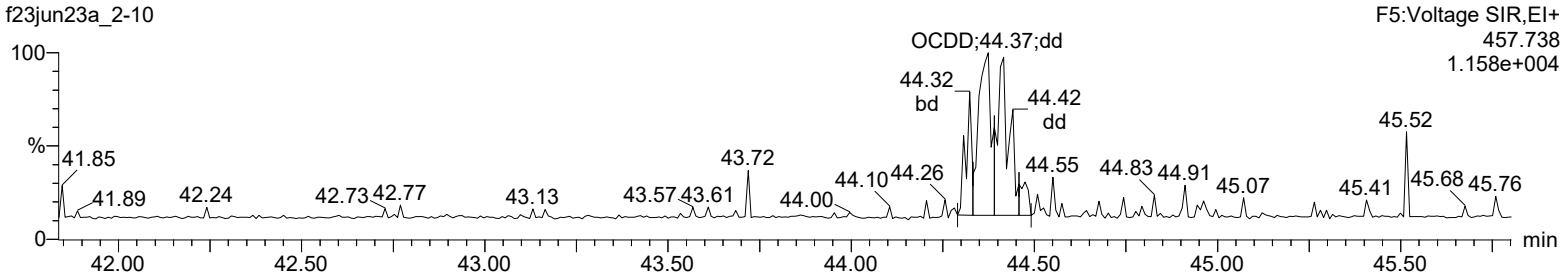
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

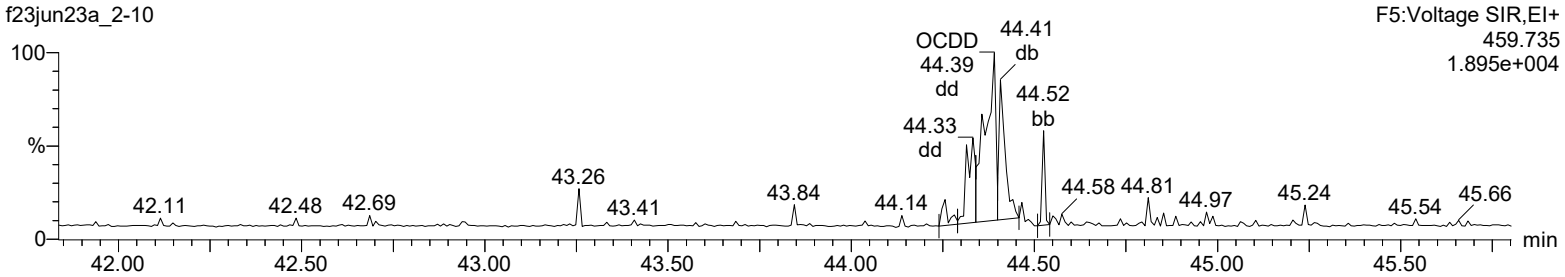
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

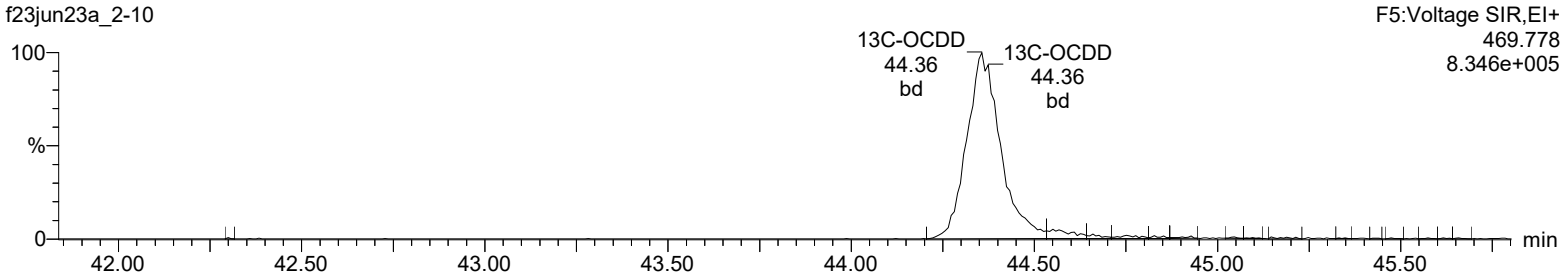
OCDD



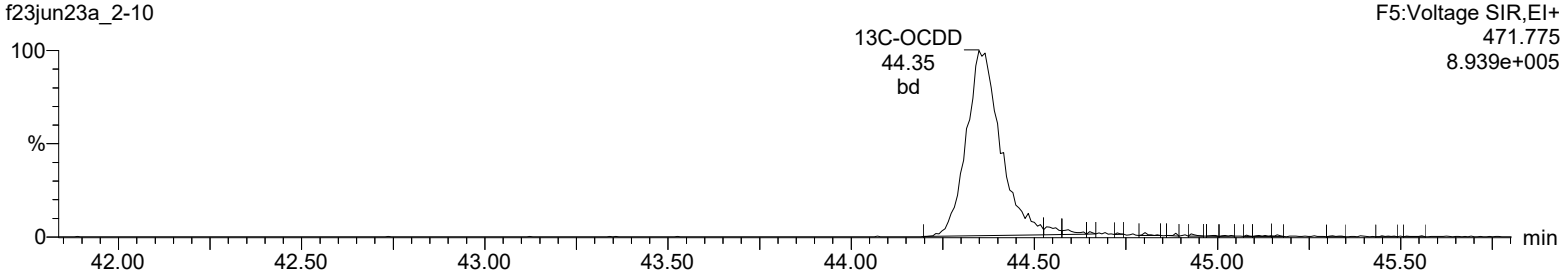
OCDD



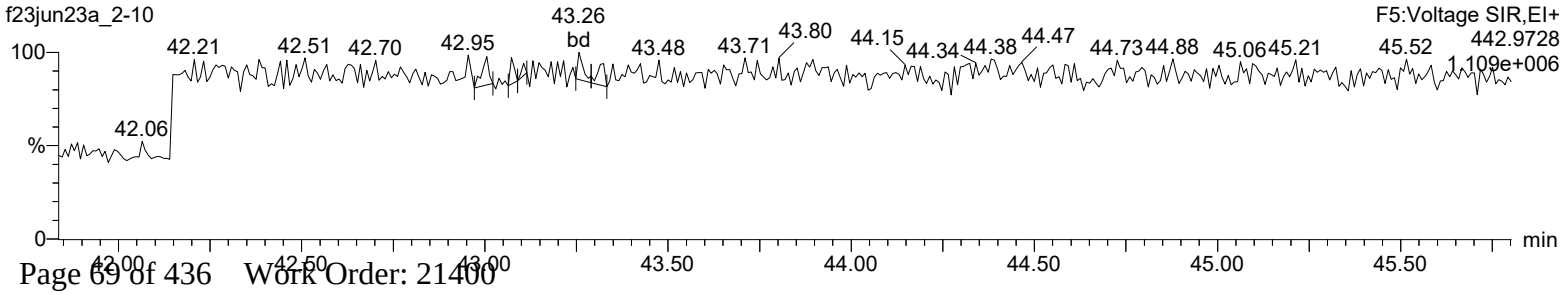
13C-OCDD



13C-OCDD



Lock Mass F5



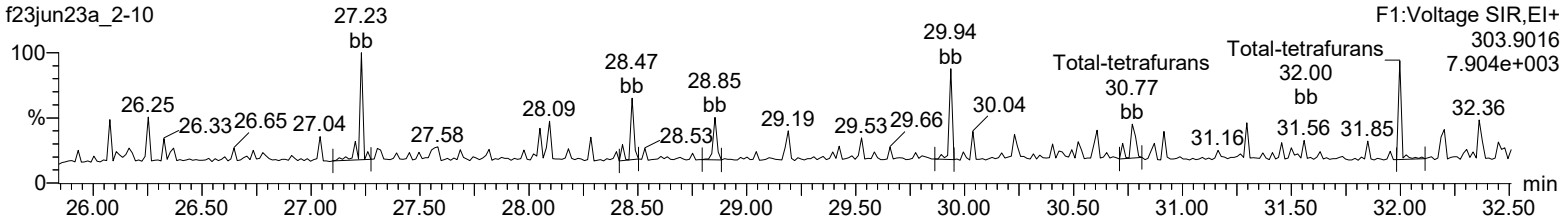
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

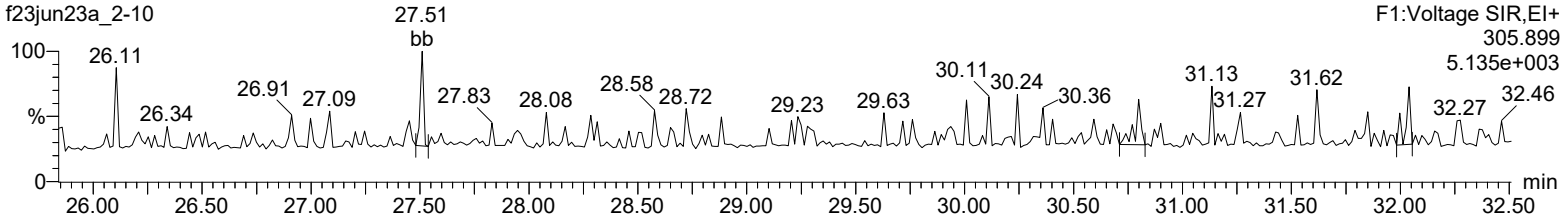
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

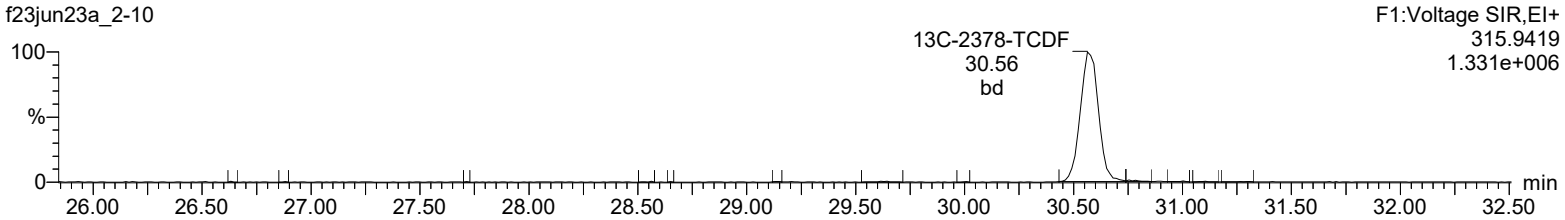
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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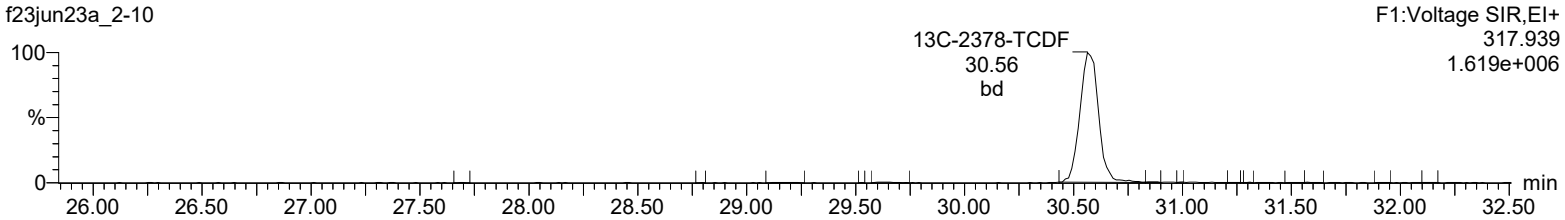
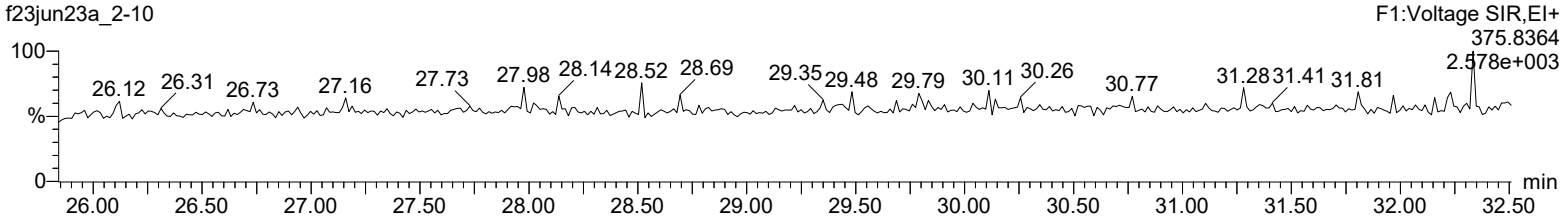
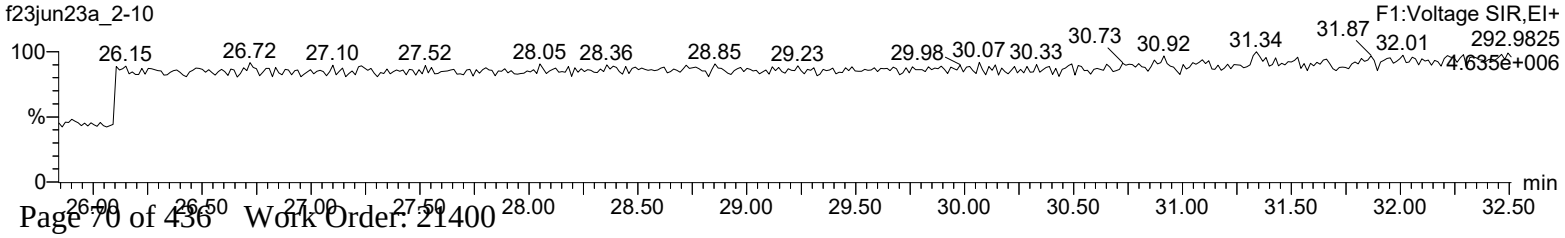


HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
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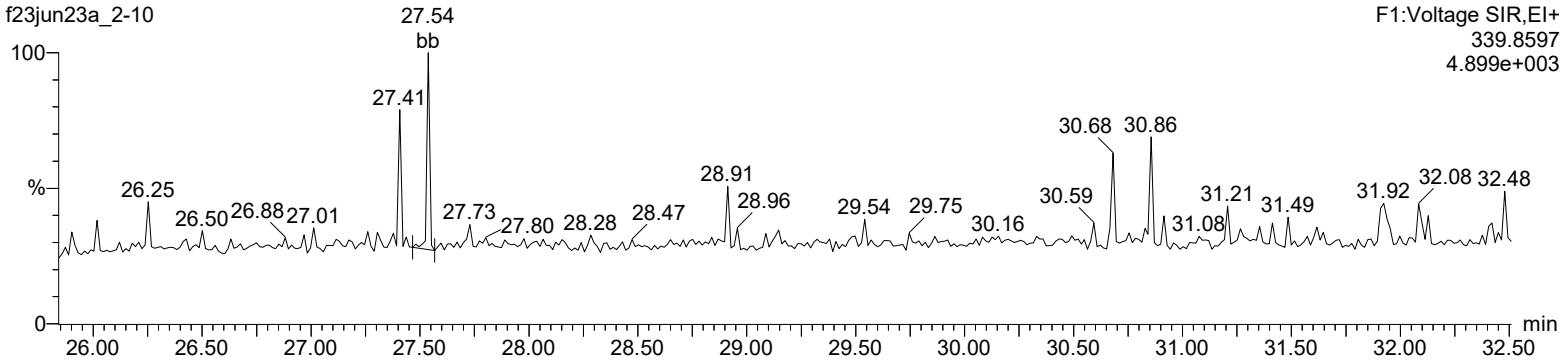
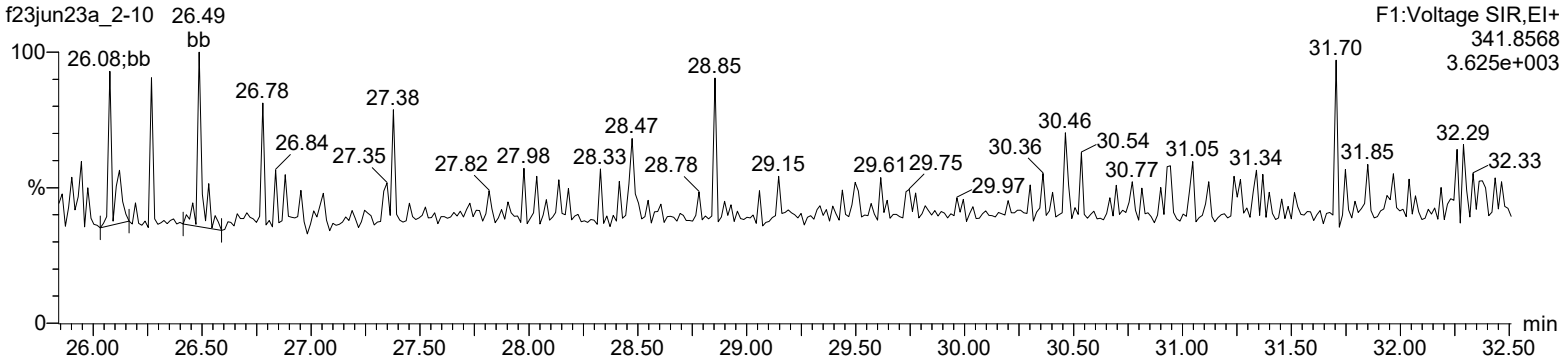
Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-pentafurans (F1)



Total-pentafurans (F1)



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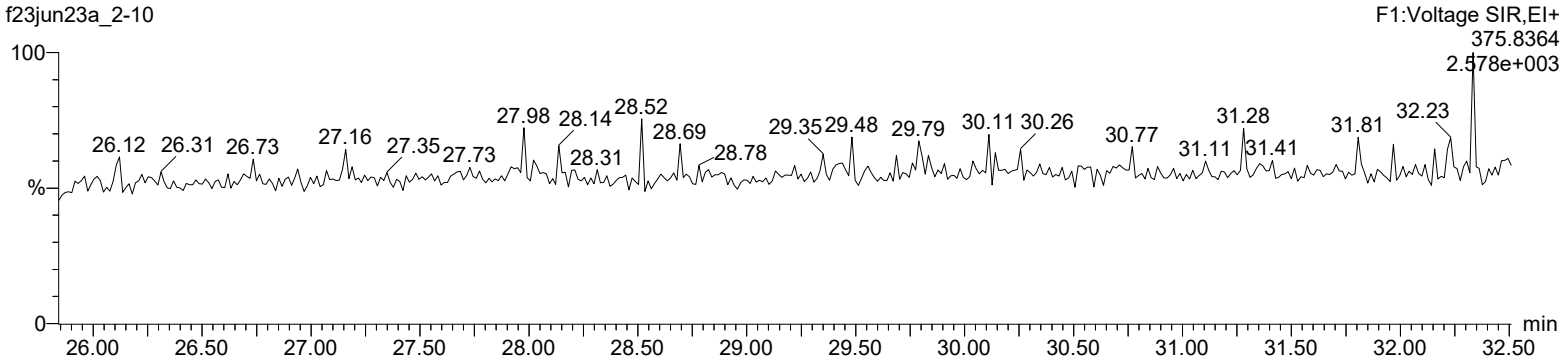
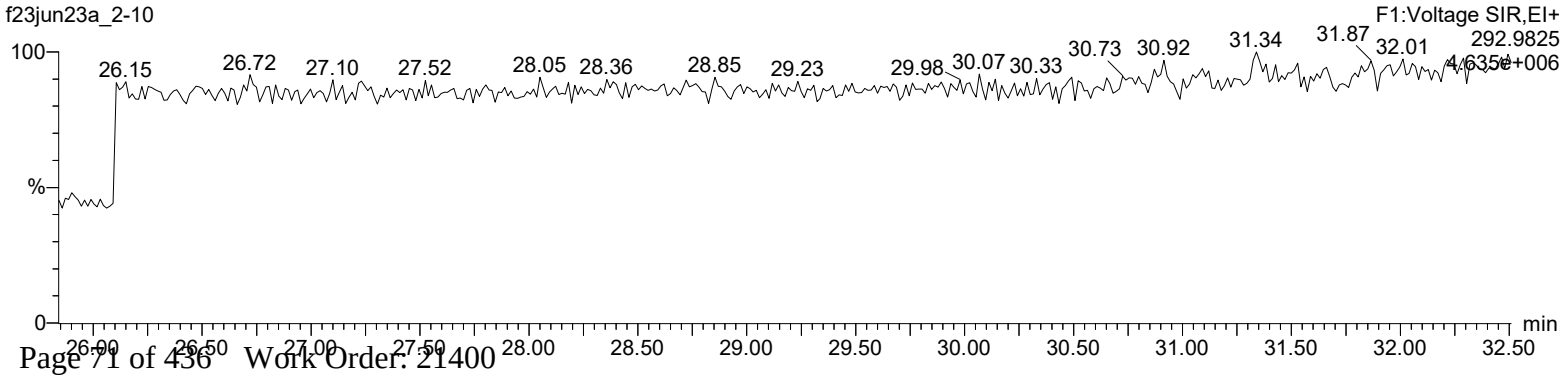


Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
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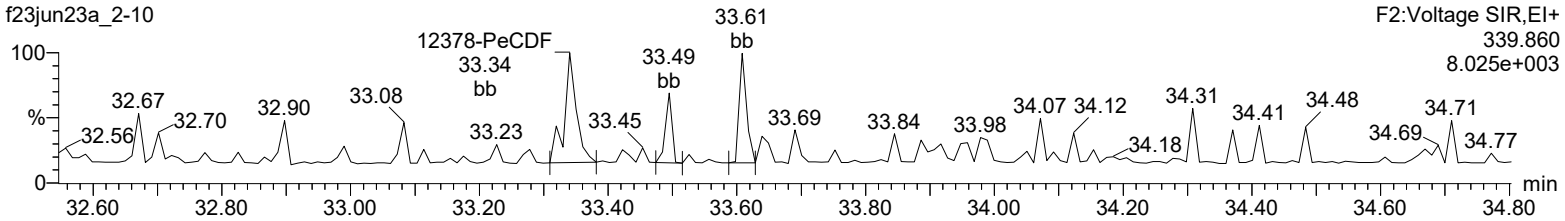
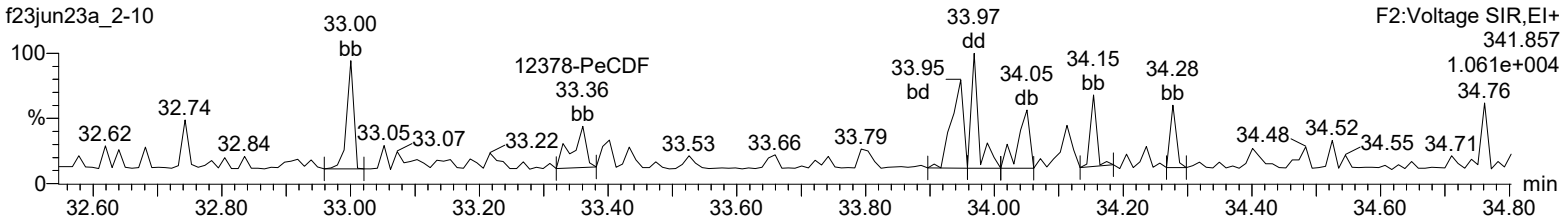
Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

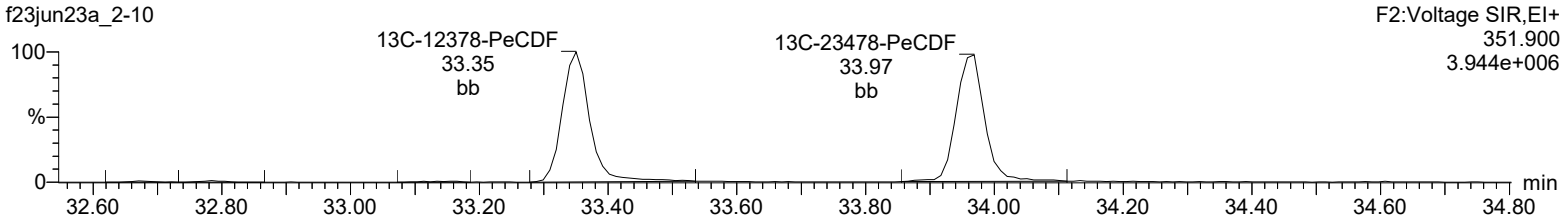
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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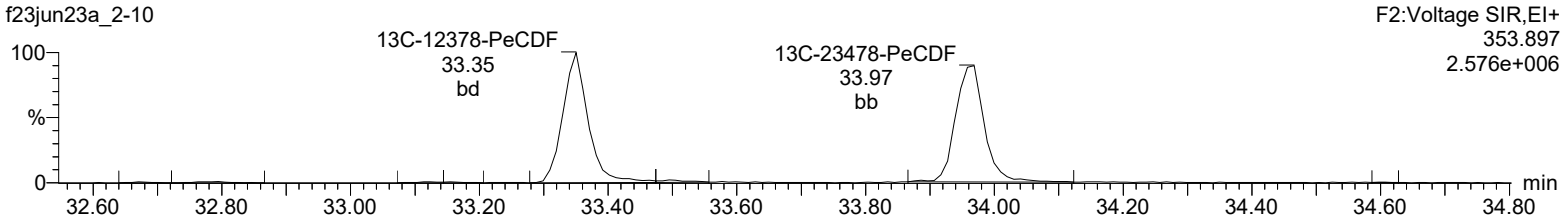
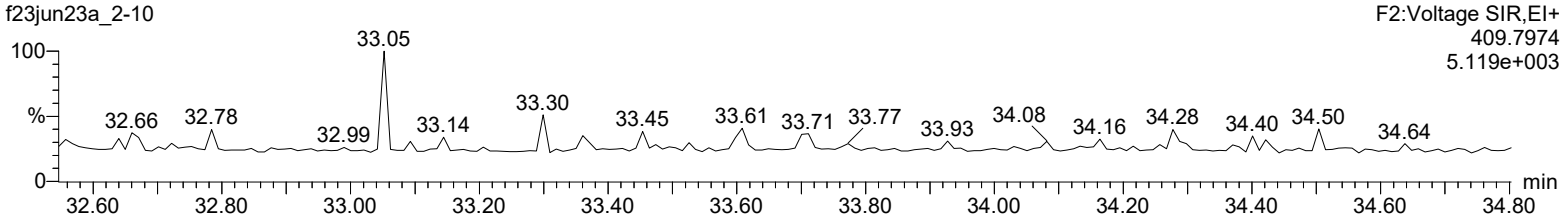
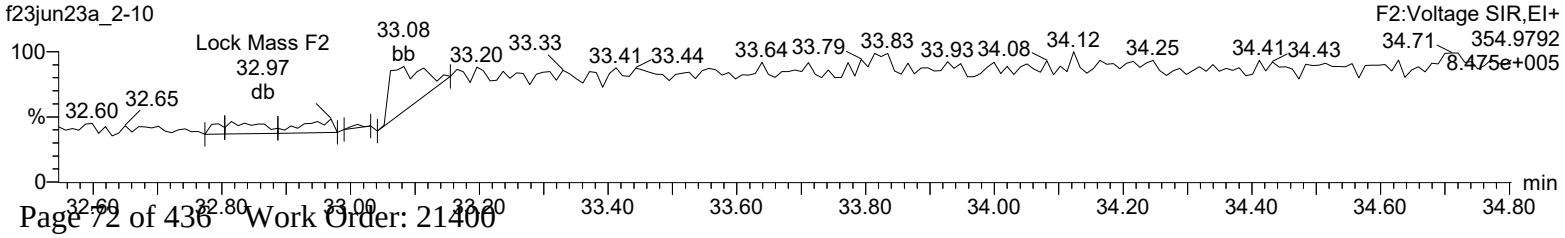


HpDPE



Lock Mass F2



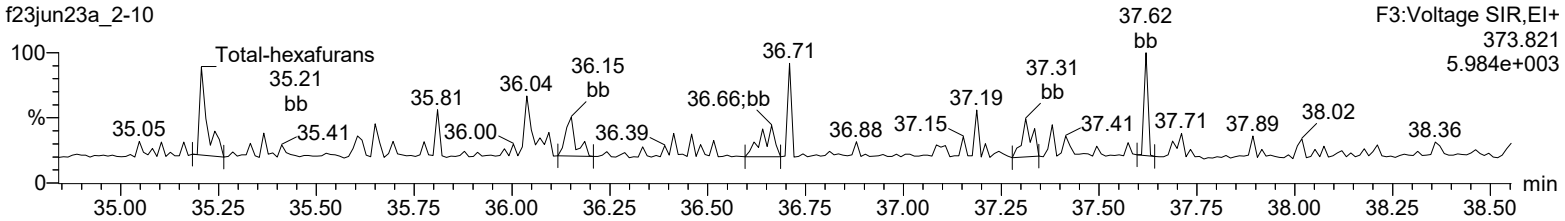
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

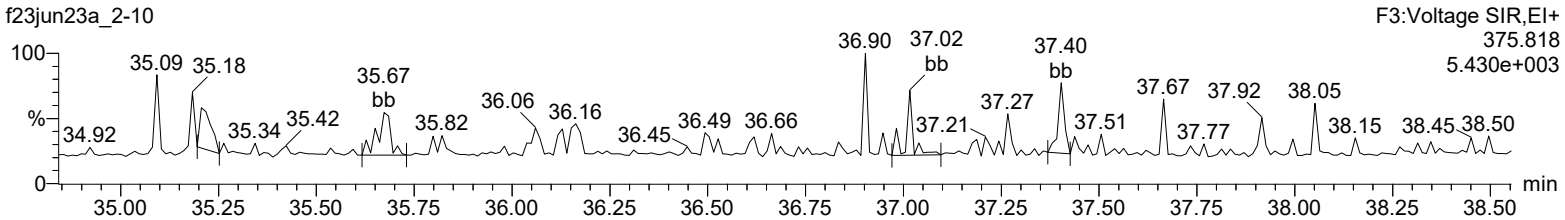
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

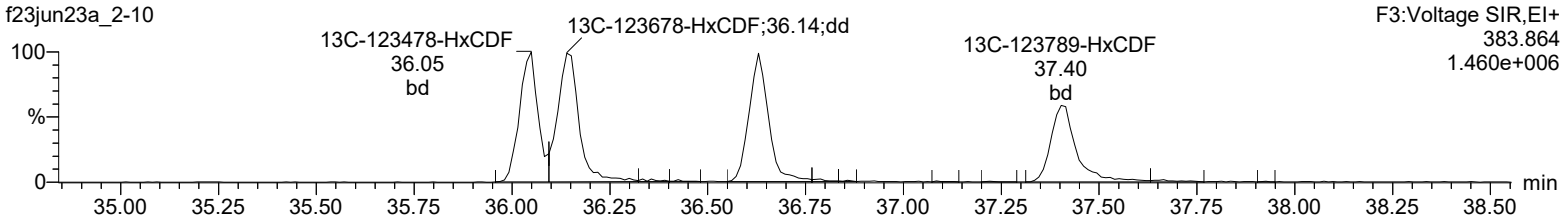
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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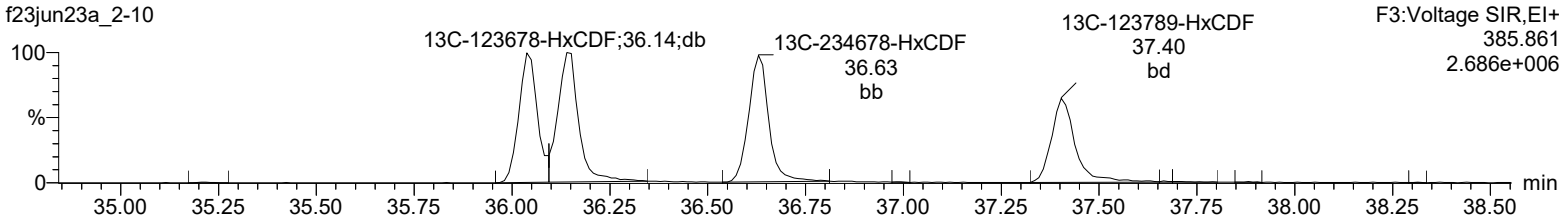
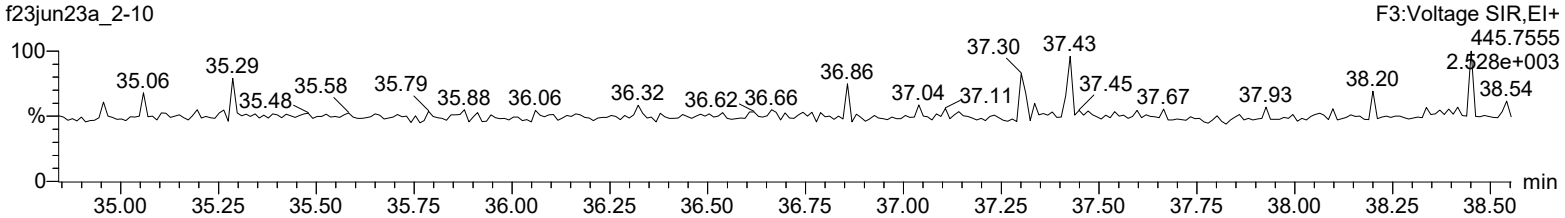
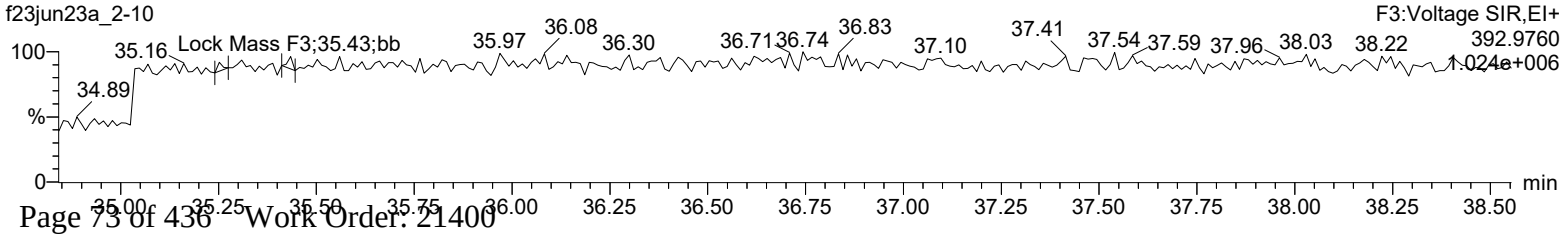


OcDPE



Lock Mass F3



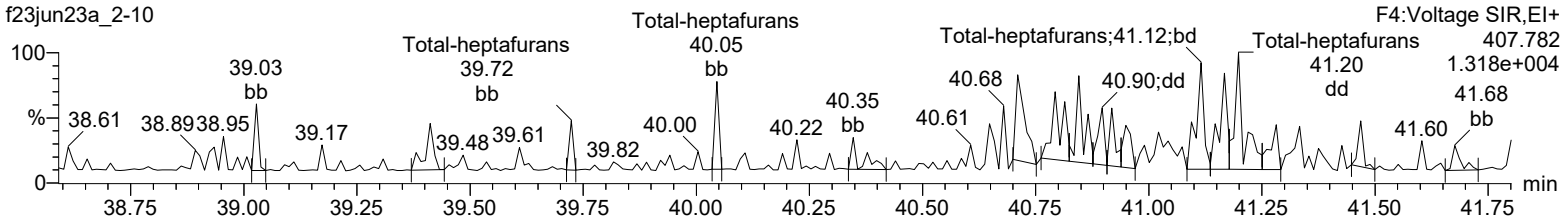
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

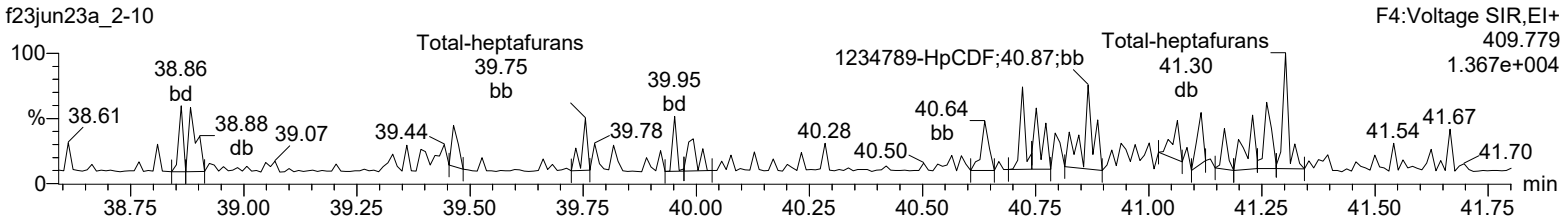
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

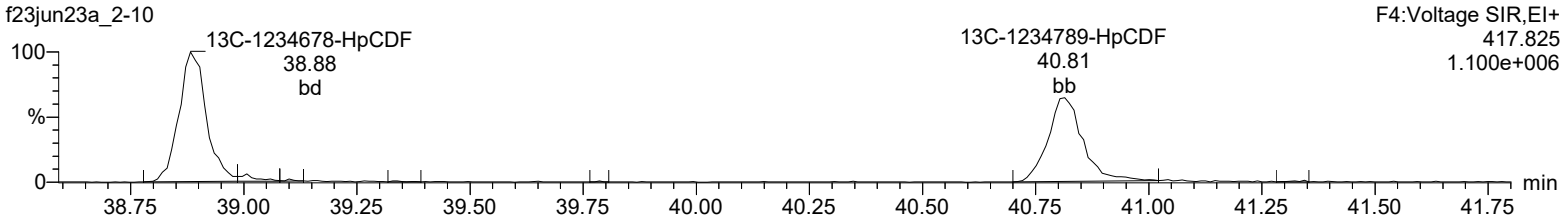
Total-heptafurans



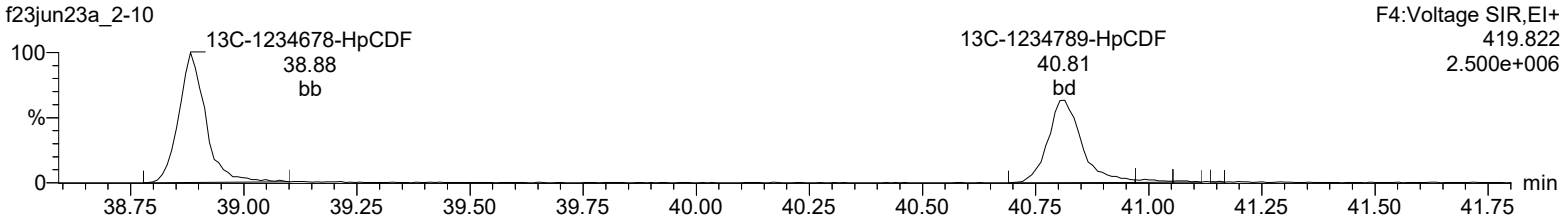
Total-heptafurans



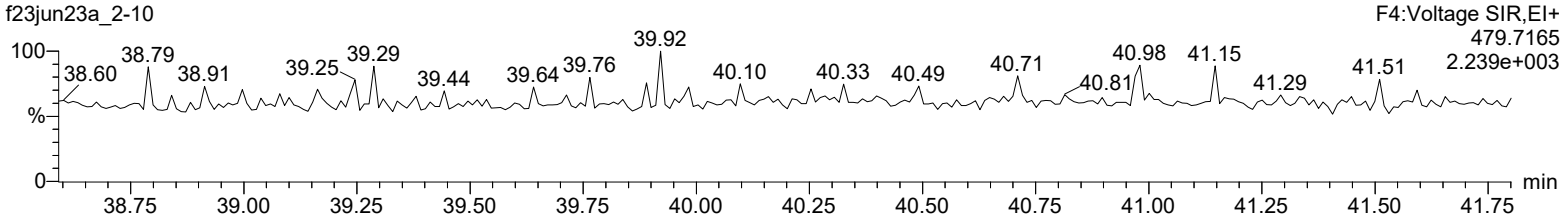
13C-1234678-HpCDF



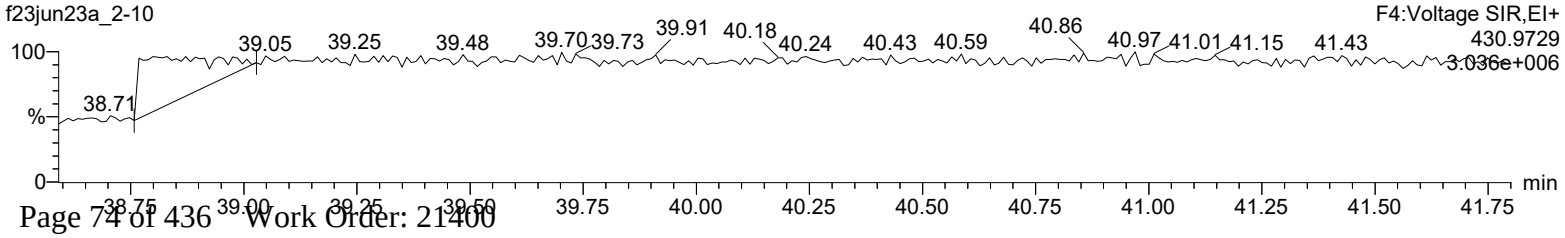
13C-1234678-HpCDF



NoDPE



Lock Mass F4



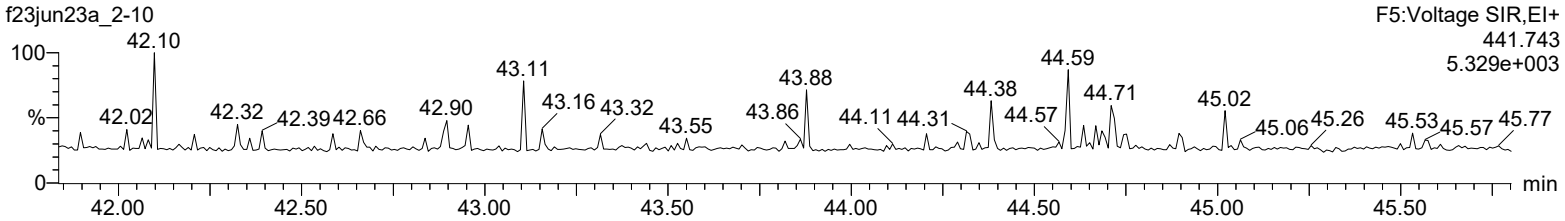
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

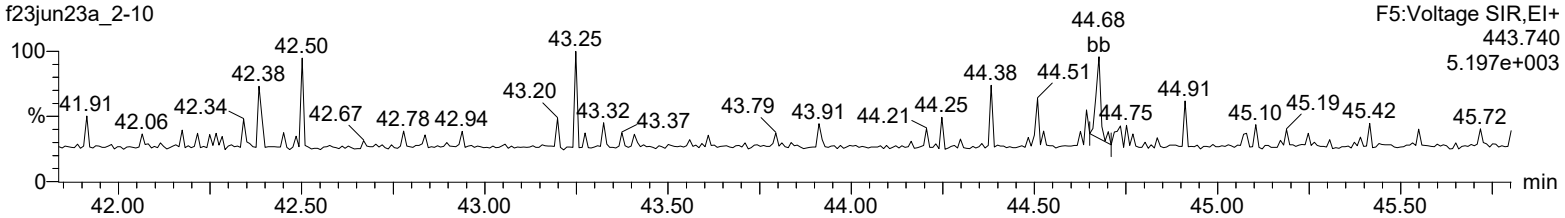
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-10, Date: 24-Jun-2023, Time: 04:36:29, ID: 21400002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

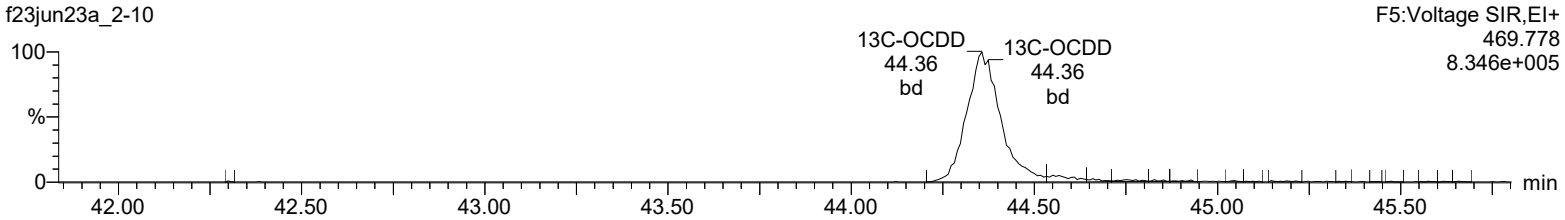
OCDF



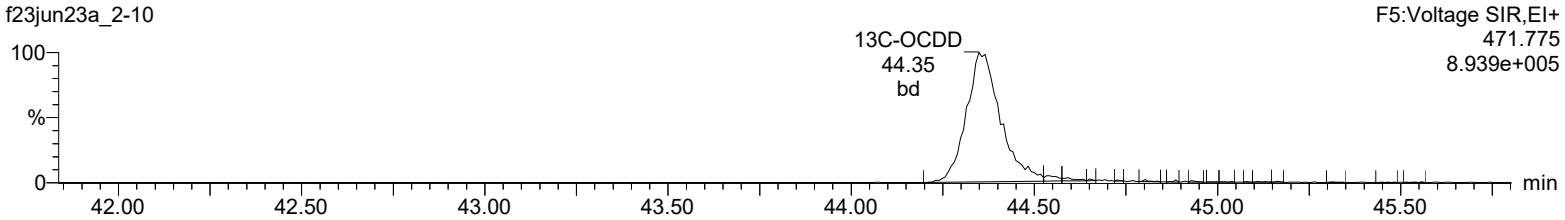
OCDF



13C-OCDD



13C-OCDD



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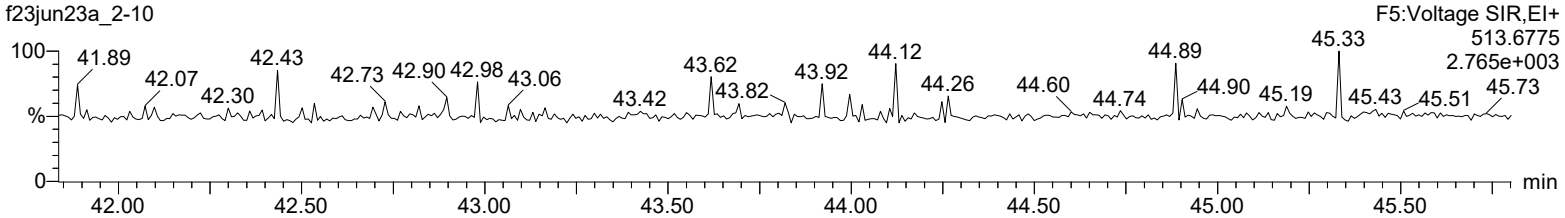
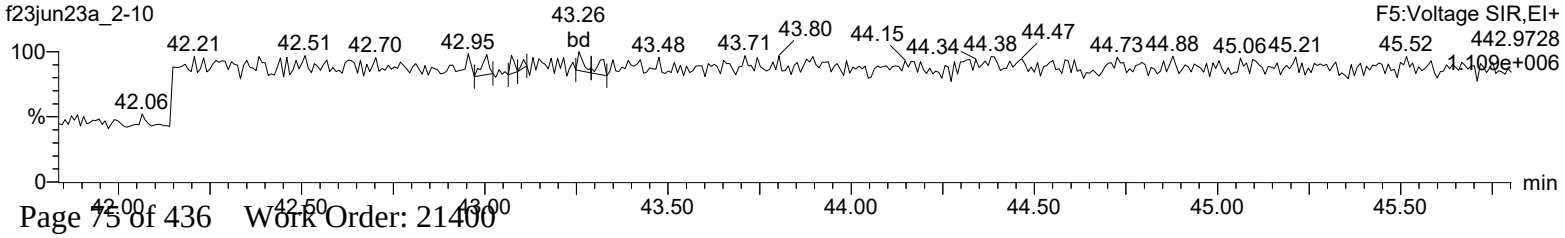


Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400003**	**Date Collected:**	**03/09/2023 16:32**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR15-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 05:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**991.6 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.18	pg/L	2.18	5.04
40321-76-4	1,2,3,7,8-PeCDD	U	2.14	pg/L	2.14	25.2
39227-28-6	1,2,3,4,7,8-HxCDD	U	4.92	pg/L	4.92	50.4
57653-85-7	1,2,3,6,7,8-HxCDD	U	4.60	pg/L	4.60	50.4
19408-74-3	1,2,3,7,8,9-HxCDD	U	4.76	pg/L	4.76	50.4
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	5.87	pg/L	5.83	50.4
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJK	27.3	pg/L	8.73	101
51207-31-9	2,3,7,8-TCDF	U	1.85	pg/L	1.85	10.1
57117-41-6	1,2,3,7,8-PeCDF	U	1.62	pg/L	1.62	50.4
57117-31-4	2,3,4,7,8-PeCDF	U	1.53	pg/L	1.53	50.4
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.78	pg/L	1.78	50.4
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.77	pg/L	1.77	50.4
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.82	pg/L	1.82	50.4
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.99	pg/L	2.99	50.4
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	3.69	pg/L	3.69	50.4
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.54	pg/L	4.54	50.4
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.92	pg/L	4.92	101
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.18	pg/L	2.18	10.1
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.14	pg/L	2.14	50.4
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	4.60	pg/L	4.60	50.4
TCDF	Total Tetrachlorodibenzofuran	U	1.85	pg/L	1.85	10.1
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	5.87	pg/L	5.83	50.4
30402-15-4	Total Pentachlorodibenzofuran	U	1.53	pg/L	1.53	50.4
55684-94-1	Total Hexachlorodibenzofuran	U	1.77	pg/L	1.77	50.4
38998-75-3	Total Heptachlorodibenzofuran	U	3.69	pg/L	3.69	50.4
TEQ	TEQ WHO2005 ND=0		0.0669	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.74	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1330	2020	pg/L	66.0	(25%-164%)
13C-1,2,3,7,8-PeCDD		1480	2020	pg/L	73.4	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1360	2020	pg/L	67.6	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1390	2020	pg/L	68.9	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1440	2020	pg/L	71.4	(23%-140%)
13C-OCDD		2560	4030	pg/L	63.5	(17%-157%)
13C-2,3,7,8-TCDF		1320	2020	pg/L	65.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		1350	2020	pg/L	67.1	(24%-185%)
13C-2,3,4,7,8-PeCDF		1450	2020	pg/L	71.9	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1410	2020	pg/L	70.1	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1320	2020	pg/L	65.5	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1450	2020	pg/L	72.0	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1320	2020	pg/L	65.3	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400003**	**Date Collected:**	**03/09/2023 16:32**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR15-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 05:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**991.6 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1350	2020	pg/L	66.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1470	2020	pg/L	72.7	(26%-138%)
37Cl-2,3,7,8-TCDD		155	202	pg/L	77.0	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-11.qld

Last Altered: Wednesday, June 28, 2023 10:14:39 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:06:59 PM Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.108		1001			552			
2	12378-PeCDD							NO		0.106		974			647			
3	123478-HxCDD							NO		0.244		1300			1403			
4	123678-HxCDD	1.59e2	1.73e2	3.32e2	36.89	1.001	0.92	YES	0.171	0.228	7.33e3	1300	5.6	7.40e3	1403	5.3	MM	MM
5	123789-HxCDD							NO		0.236		1300			1403			
6	1234678-HpCDD	3.28e2	1.98e2	5.26e2	40.17	1.001	1.65	YES	0.291	0.289	8.10e3	1326	6.1	4.75e3	1332	3.6	MM	MM
7	OCDD	8.64e2	7.40e2	1.60e3	44.36	1.000	1.17	YES	1.354	0.433	1.45e4	1128	12.8	1.13e4	858	13.2	MM	MM
8	2378-TCDF							NO		0.0918		690			947			
9	12378-PeCDF							NO		0.0804		1017			1805			
10	23478-PeCDF	1.78e2	5.93e1	2.37e2	33.97	1.000	3.00	YES	0.051	0.0758	1.41e4	1017	13.9	1.88e3	1805	1.0	bb	db
11	123478-HxCDF							NO		0.0882		874			1228			
12	123678-HxCDF							NO		0.0876		874			1228			
13	234678-HxCDF							NO		0.0903		874			1228			
14	123789-HxCDF							NO		0.148		874			1228			
15	1234678-HpCDF	2.16e2	2.01e2	4.17e2	38.87	1.000	1.07	NO	0.114	0.183	6.25e3	1922	3.3	4.33e3	1573	2.7	MM	MM
16	1234789-HpCDF	8.37e1	5.27e1	1.36e2	40.83	1.000	1.59	YES	0.045	0.225	4.72e3	1922	2.5	1.66e3	1573	1.1	bb	bb
17	OCDF	7.22e1	1.07e2	1.79e2	44.66	1.007	0.68	YES	0.095	0.244	7.32e3	429	17.1	1.03e4	1345	7.7	bb	bb
18	13C-2378-TCDD	9.51e4	1.19e5	2.14e5	31.28	1.017	0.80	NO	66.001	0.294	1.45e6	3038	478.8	1.87e6	1944	959.4	bd	bd
19	13C-12378-PeCDD	1.06e5	6.43e4	1.70e5	34.15	1.110	1.64	NO	73.406	0.407	2.04e6	1783	1145.3	1.18e6	3143	377.0	bd	bd
20	13C-123478-HxCDD	8.29e4	6.50e4	1.48e5	36.77	0.991	1.28	NO	67.642	0.786	1.45e6	5441	265.9	1.13e6	4496	250.7	bd	bd
21	13C-123678-HxCDD	1.01e5	8.17e4	1.83e5	36.85	0.994	1.23	NO	68.895	0.649	1.54e6	5441	282.8	1.25e6	4496	278.9	dd	dd
22	13C-1234678-HpCDD	7.57e4	7.18e4	1.47e5	40.14	1.082	1.05	NO	71.429	0.644	9.60e5	4401	218.2	8.49e5	3282	258.5	bd	bd
23	13C-OCDD	1.03e5	1.11e5	2.14e5	44.35	1.196	0.92	NO	127.097	0.645	9.94e5	3534	281.1	1.03e6	2739	375.5	bd	bb
24	13C-2378-TCDF	1.45e5	1.79e5	3.24e5	30.56	0.993	0.81	NO	65.586	0.183	1.48e6	2511	588.2	1.89e6	2221	851.1	bd	bd
25	13C-12378-PeCDF	2.04e5	1.24e5	3.28e5	33.35	1.084	1.64	NO	67.073	0.782	4.28e6	13120	326.0	2.69e6	6909	389.5	bd	bd
26	13C-23478-PeCDF	2.07e5	1.24e5	3.32e5	33.97	1.104	1.67	NO	71.865	0.830	4.17e6	13120	317.8	2.64e6	6909	381.6	bb	bb
27	13C-123478-HxCDF	8.09e4	1.53e5	2.33e5	36.05	0.972	0.53	NO	70.106	0.775	1.46e6	7018	207.5	2.71e6	7904	342.4	bd	bd
28	13C-123678-HxCDF	9.38e4	1.76e5	2.70e5	36.14	0.975	0.53	NO	65.453	0.626	1.51e6	7018	215.6	2.87e6	7904	362.5	dd	dd
29	13C-234678-HxCDF	8.40e4	1.64e5	2.48e5	36.64	0.988	0.51	NO	72.011	0.748	1.38e6	7018	197.0	2.66e6	7904	336.4	bd	dd
30	13C-123789-HxCDF	6.98e4	1.30e5	2.00e5	37.40	1.009	0.54	NO	65.254	0.841	9.53e5	7018	135.8	1.84e6	7904	233.3	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-11.qld

Last Altered: Wednesday, June 28, 2023 10:14:39 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:06:59 PM Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	8.41e4	1.80e5	2.65e5	38.88	1.048	0.47	NO	66.739	0.916	1.10e6	6024	181.9	2.35e6	14973	156.9	bd	bd
32	13C-1234789-HpCDF	7.10e4	1.54e5	2.25e5	40.83	1.101	0.46	NO	72.651	1.17	8.99e5	6024	149.3	1.82e6	14973	121.9	bd	bd
33	13C-1234-TCDD	1.29e5	1.56e5	2.85e5	30.77	0.000	0.83	NO	100.000	0.334	1.68e6	3038	554.5	2.09e6	1944	1076.6	dd	bd
34	13C-123789-HxCDD	1.45e5	1.13e5	2.58e5	37.08	0.000	1.28	NO	100.000	0.666	2.10e6	5441	385.3	1.61e6	4496	357.2	dd	dd
35	37Cl-2378-TCDD	2.46e4		2.46e4	31.30	1.017			7.695	0.0648	3.85e5	1086	354.6				bb	

Reasons for Analyst Intervention

Name:f23jun23a_2-11, ID:21400003-1, Description: 52698

M	M2
4 123678-HxCDD 36.89 - AB	4 123678-HxCDD 36.89 - AB
6 1234678-HpCDD 40.17 - AB	6 1234678-HpCDD 40.17 - AB
7 OCDD 44.36 - AB	7 OCDD 44.36 - AB
15 1234678-HpCDF 38.87 - AB	15 1234678-HpCDF 38.87 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-11.qld

Last Altered: Wednesday, June 28, 2023 10:14:39 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:06:59 PM Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	5.90e1	5.53e1	1.14e2	25.96	1.07	YES	0.049	0.108	1.68e3	1001	1.7	2.71e3	552	4.9	bb	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	8.30e1	5.18e1	1.35e2	37.69	1.60	YES	0.076	0.235	3.56e3	1300	2.7	2.62e3	1403	1.9	bb	bb
2	123678-HxCDD	1.59e2	1.73e2	3.32e2	36.89	0.92	YES	0.171	0.228	7.33e3	1300	5.6	7.40e3	1403	5.3	MM	MM

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDD	3.28e2	1.98e2	5.26e2	40.17	1.65	YES	0.291	0.289	8.10e3	1326	6.1	4.75e3	1332	3.6	MM	MM
2	Total-heptadioxins	1.96e2	2.51e2	4.47e2	39.26	0.78	YES	0.247	0.289	2.88e3	1326	2.2	5.18e3	1332	3.9	MM	MM

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-11.qld

Last Altered: Wednesday, June 28, 2023 10:14:39 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:06:59 PM Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	23478-PeCDF	1.78e2	5.93e1	2.37e2	33.97	3.00	YES	0.051	0.0758	1.41e4	1017	13.9	1.88e3	1805	1.0	bb	db

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234789-HpCDF	8.37e1	5.27e1	1.36e2	40.83	1.59	YES	0.045	0.225	4.72e3	1922	2.5	1.66e3	1573	1.1	bb	bb
2	Total-heptafurans	1.05e2	9.60e1	2.01e2	40.60	1.10	NO	0.060	0.203	7.22e3	1922	3.8	6.20e3	1573	3.9	bb	bb
3	Total-heptafurans	6.05e1	6.10e1	1.21e2	39.44	0.99	NO	0.036	0.203	3.43e3	1922	1.8	2.50e3	1573	1.6	db	bb
4	1234678-HpCDF	2.16e2	2.01e2	4.17e2	38.87	1.07	NO	0.114	0.183	6.25e3	1922	3.3	4.33e3	1573	2.7	MM	MM

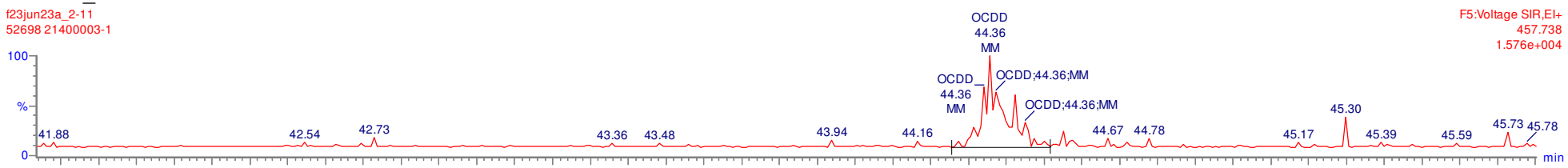
Reasons for Analyst Intervention

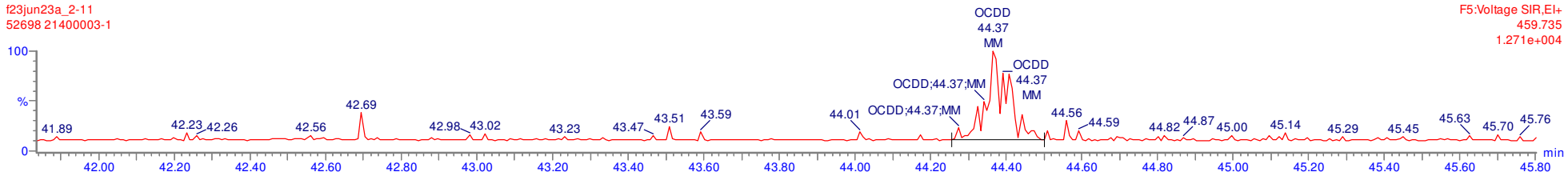
Name:f23jun23a_2-11, ID:21400003-1, Description: 52698

M	M2
2 123678-HxCDD 36.89 - AB	2 123678-HxCDD 36.89 - AB
1 1234678-HpCDD 40.17 - AB	1 1234678-HpCDD 40.17 - AB
2 Total-heptadioxins 39.26 - AB	2 Total-heptadioxins 39.26 - AB
4 1234678-HpCDF 38.87 - AB	4 1234678-HpCDF 38.87 - AB

Reason Codes assigned by MW1 on 28-JUN-23

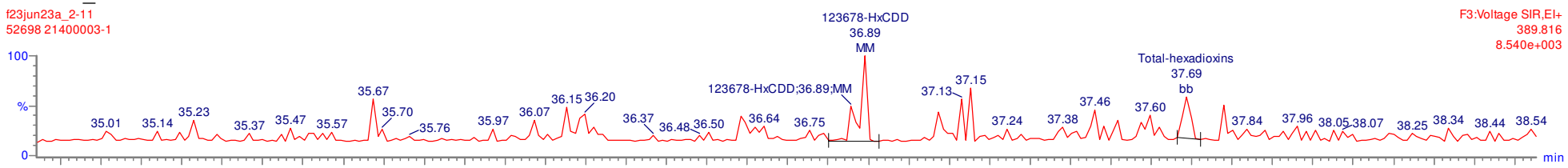
MANUAL INTEGRATION
METHOD 1613
HRP722_2

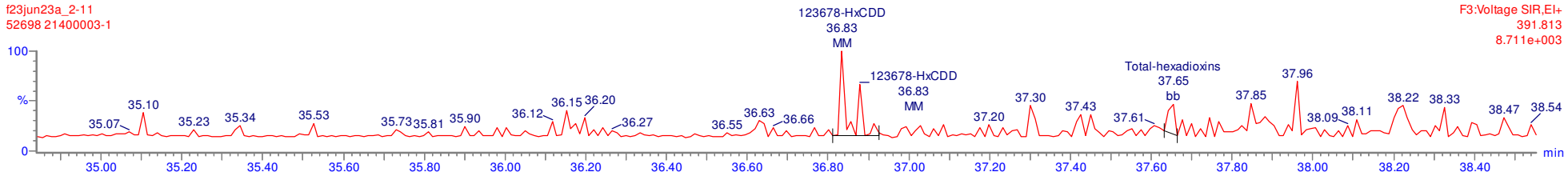




06/28/2023 06/28/2023

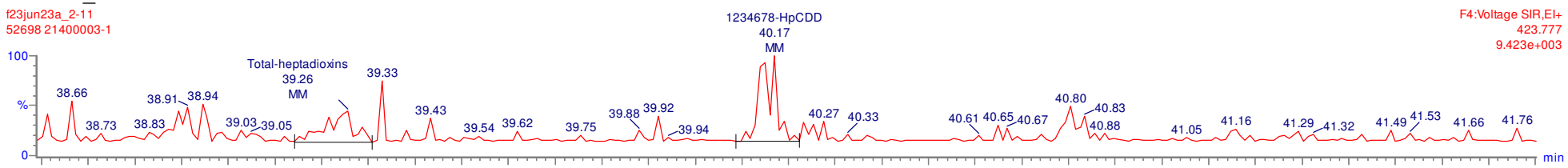
MANUAL INTEGRATION
METHOD 1613
HRP722_2

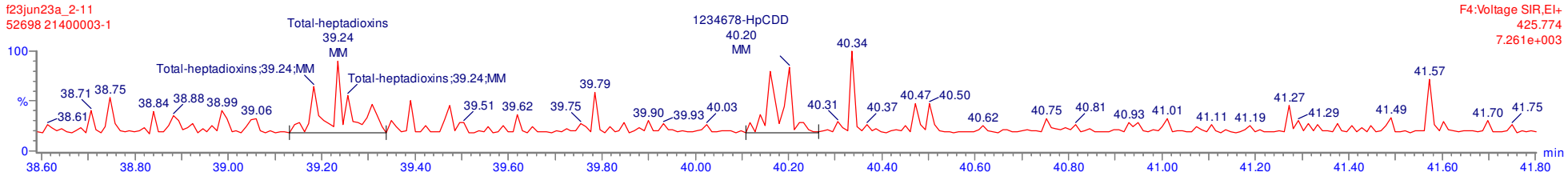




06/28/2023 06/28/2023

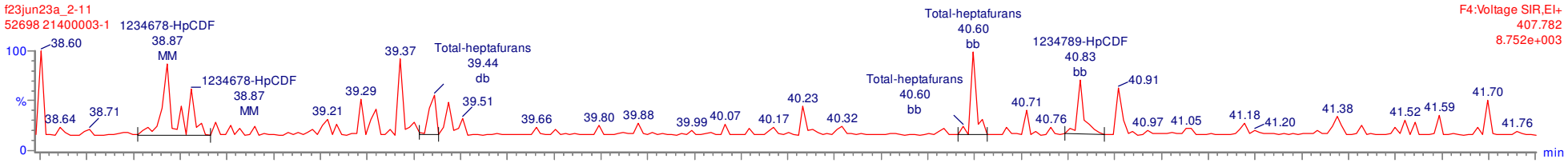
MANUAL INTEGRATION
METHOD 1613
HRP722_2

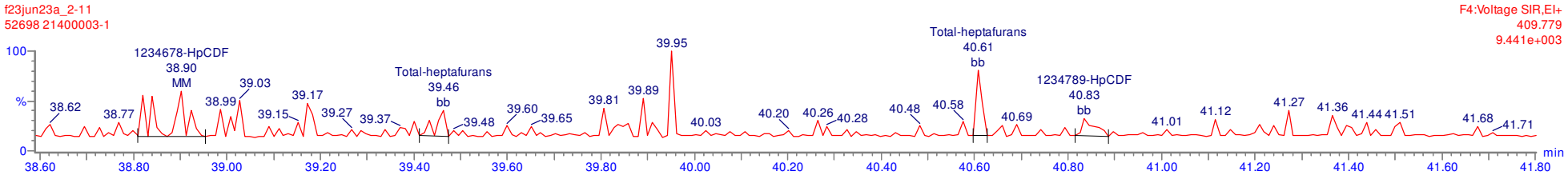




06/28/2023 06/28/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





MW 06/28/2023 AMA 06/28/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

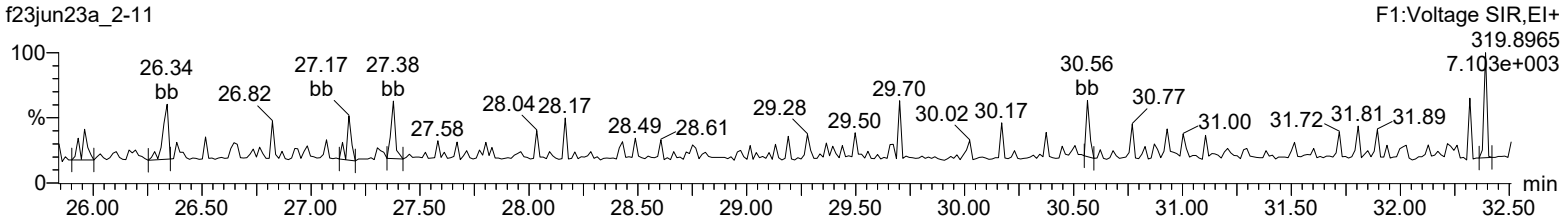
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

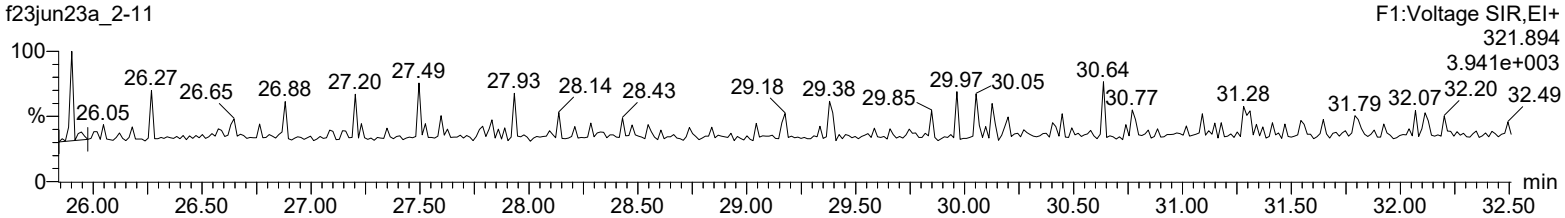
AMA 06/28/2023

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

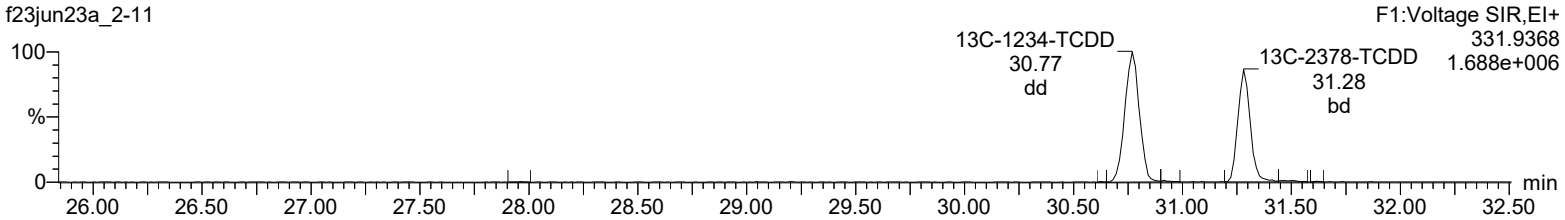
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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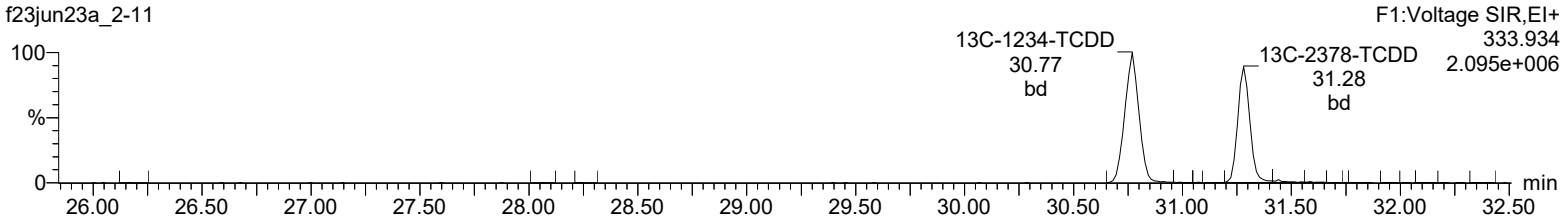
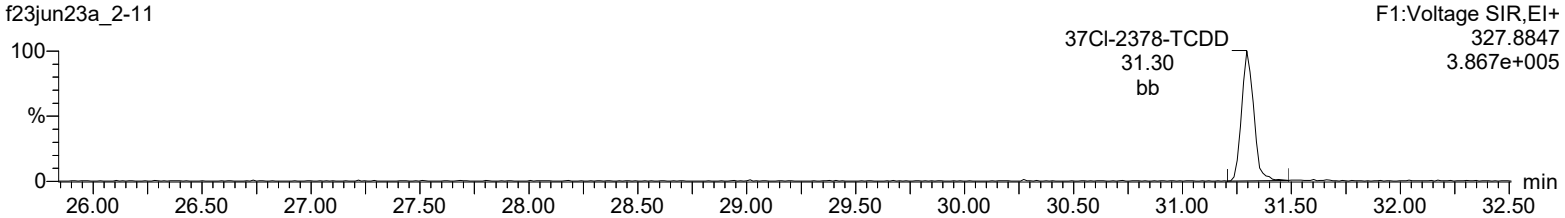
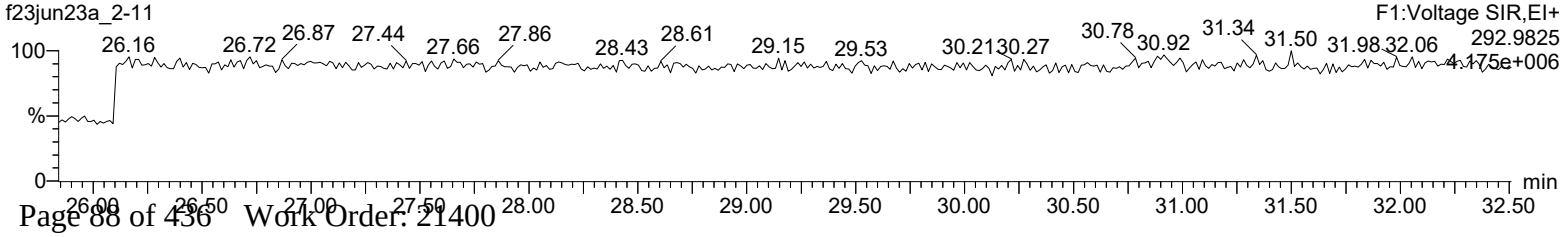


37Cl-2378-TCDD



Lock Mass F1



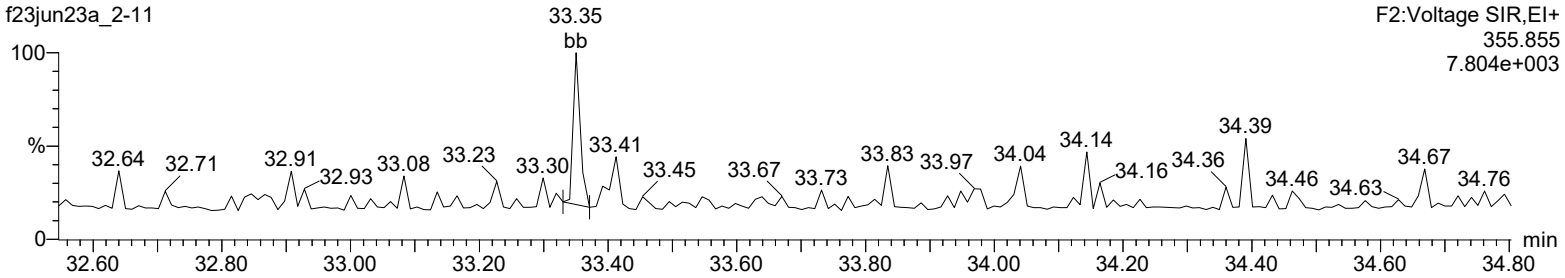
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

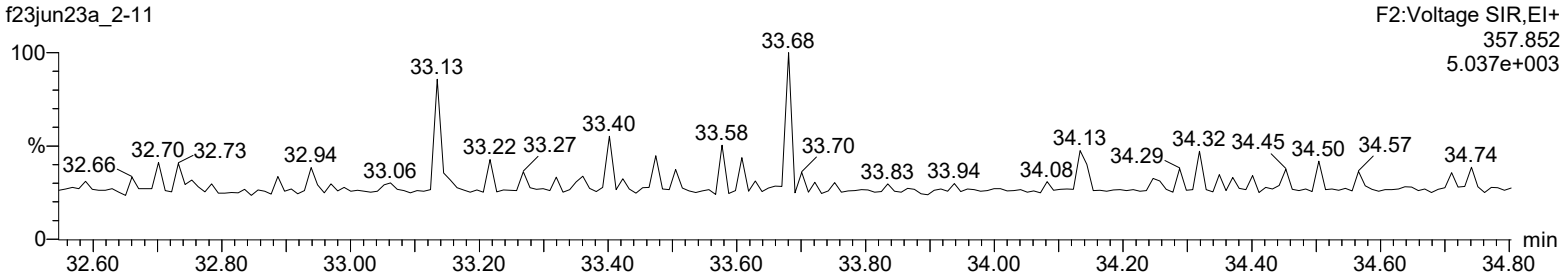
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

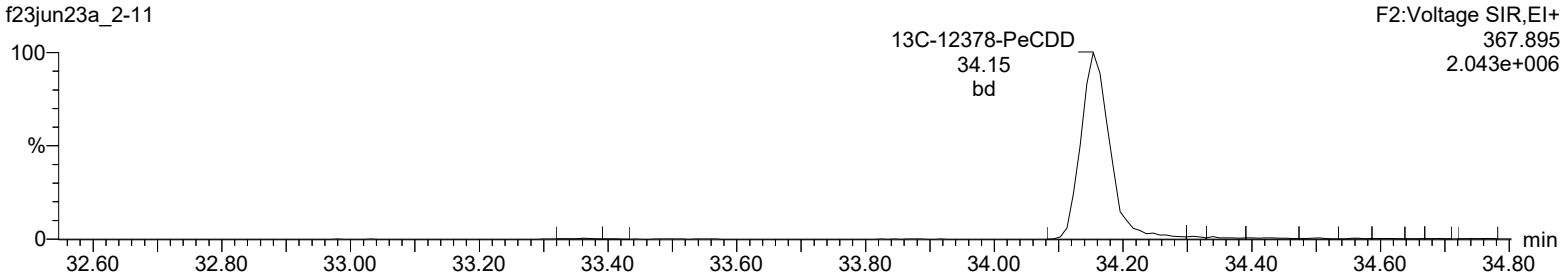
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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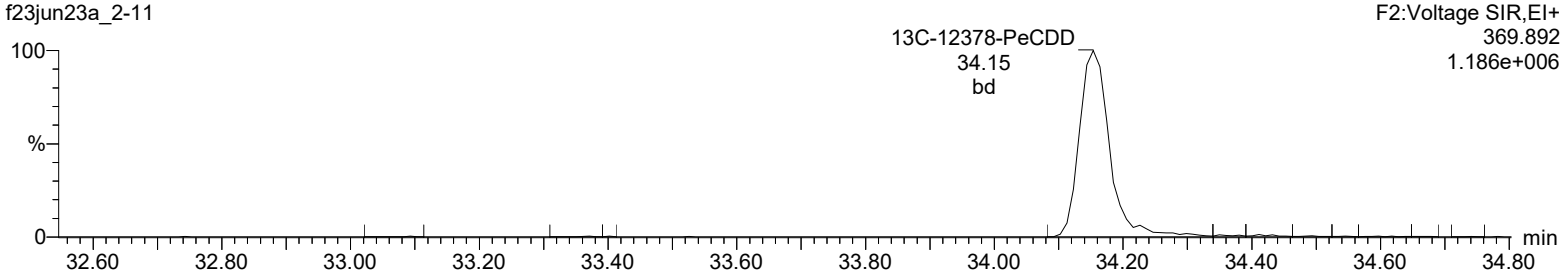
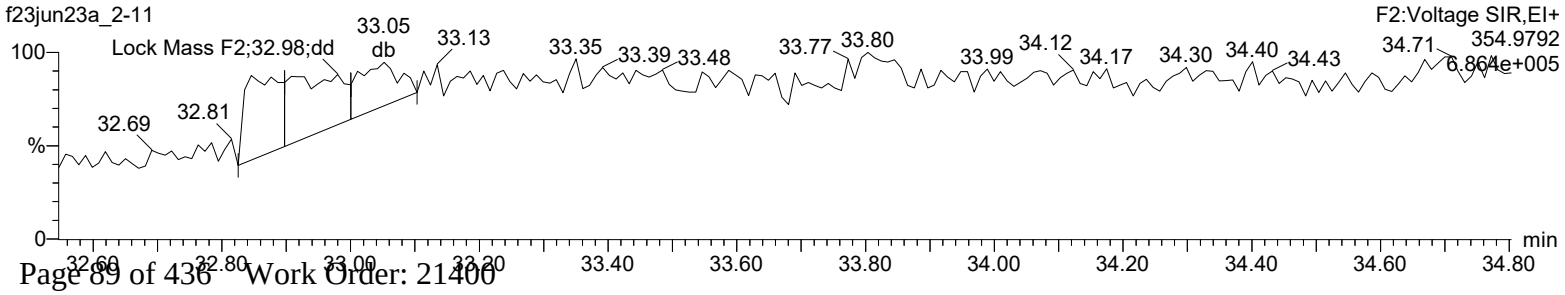


Lock Mass F2



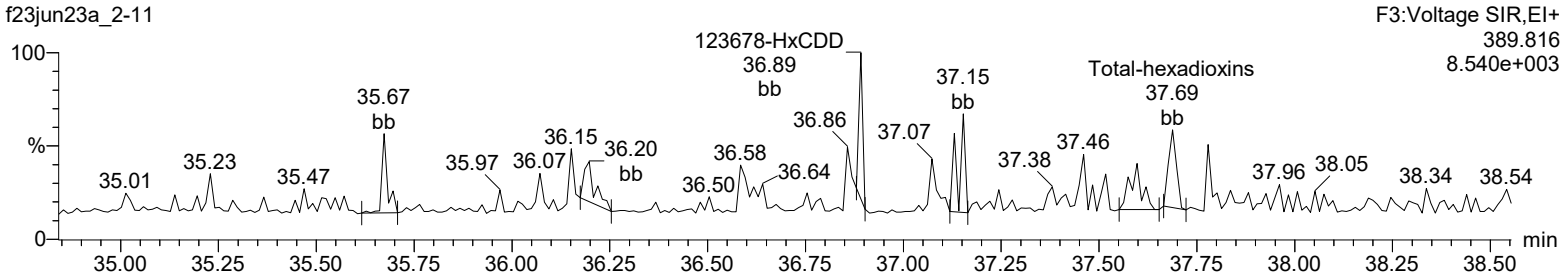
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

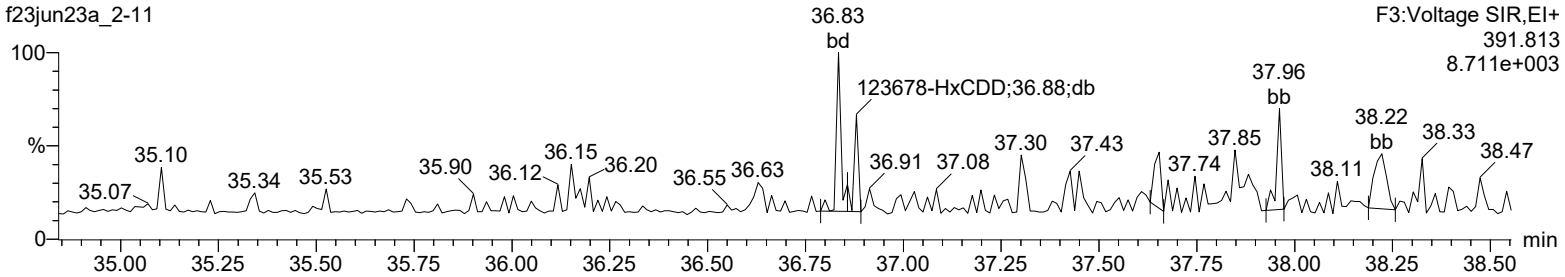
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

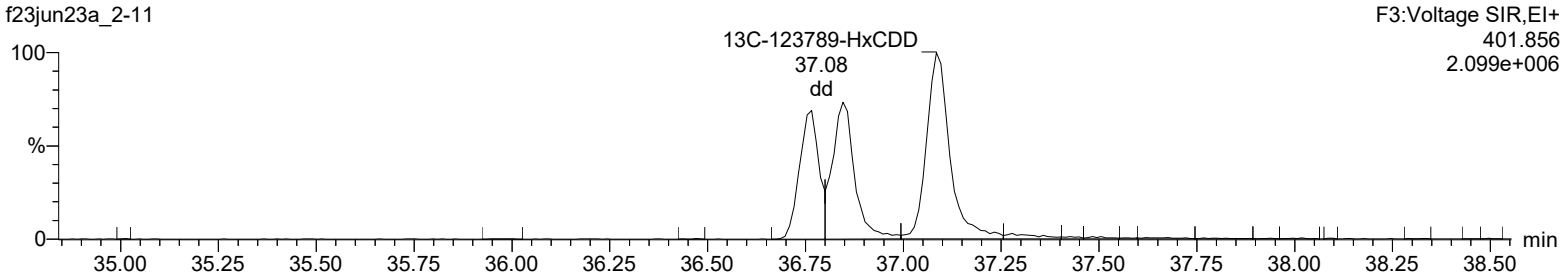
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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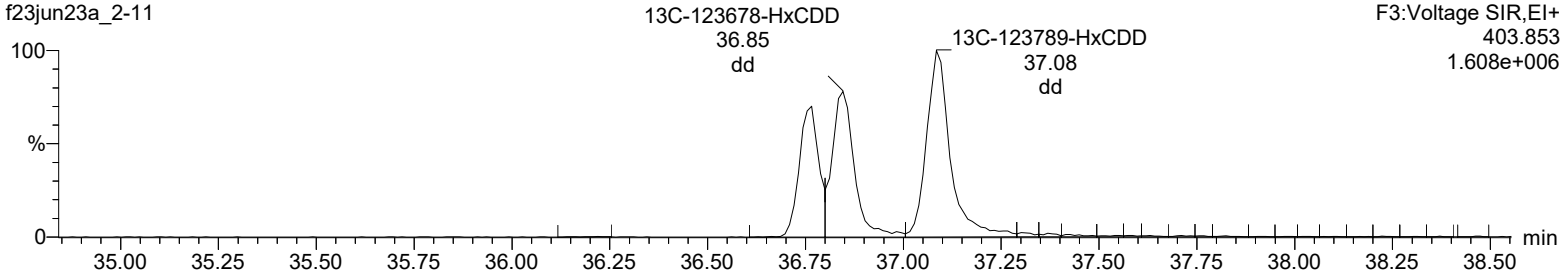
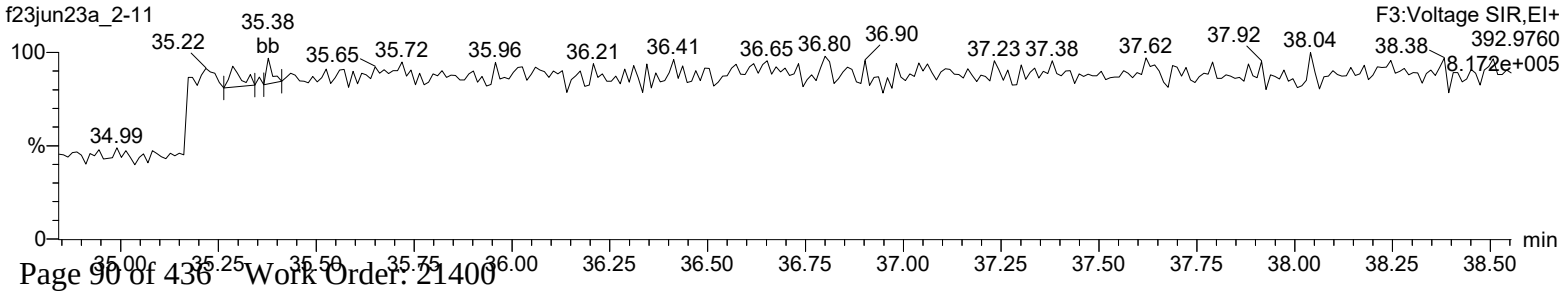


Lock Mass F3



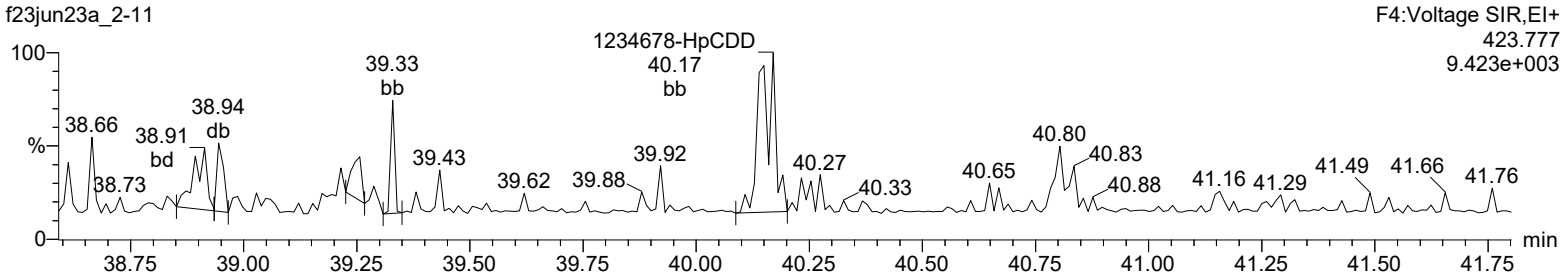
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

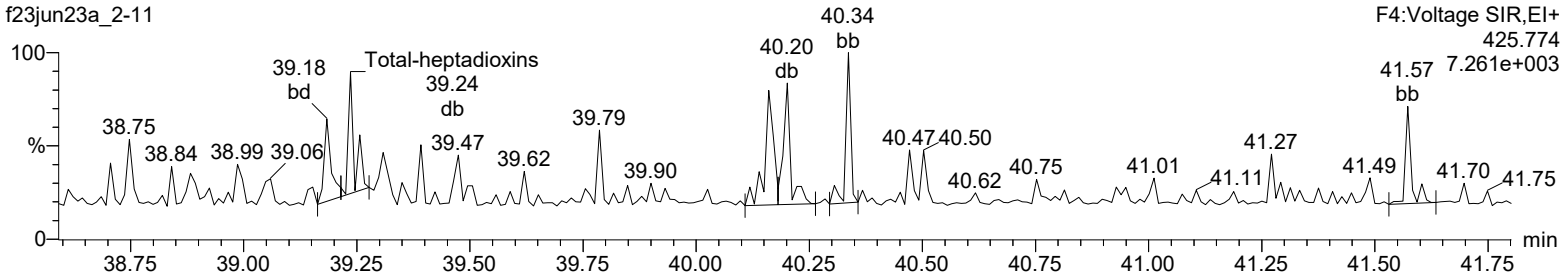
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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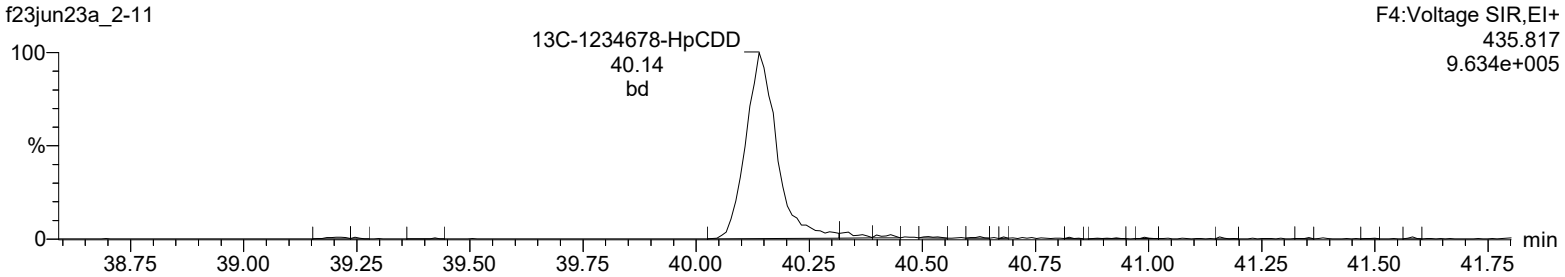

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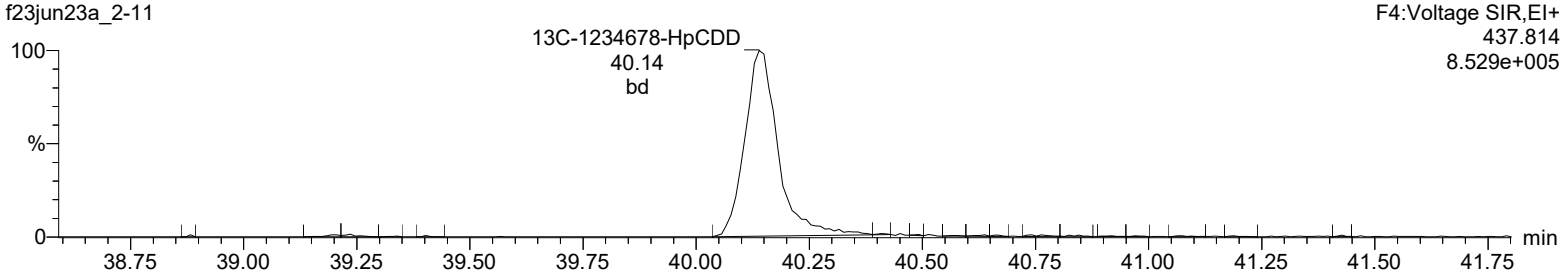
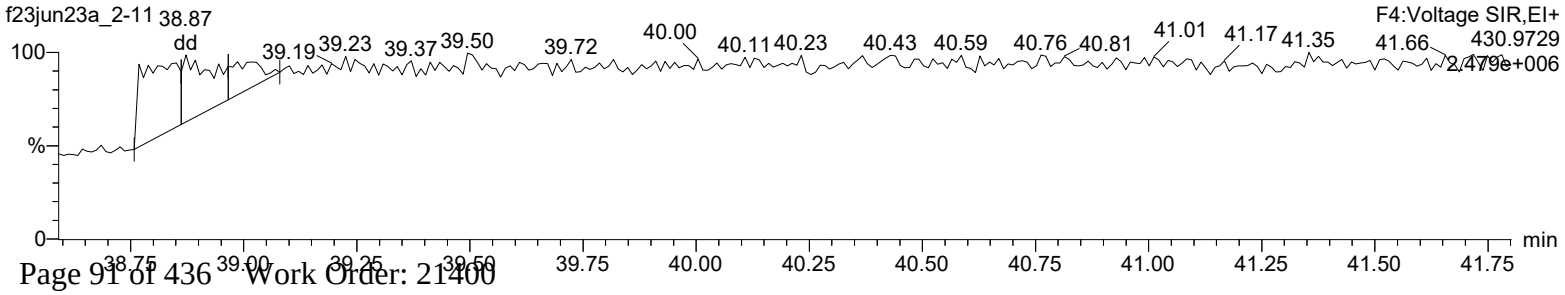


Lock Mass F4



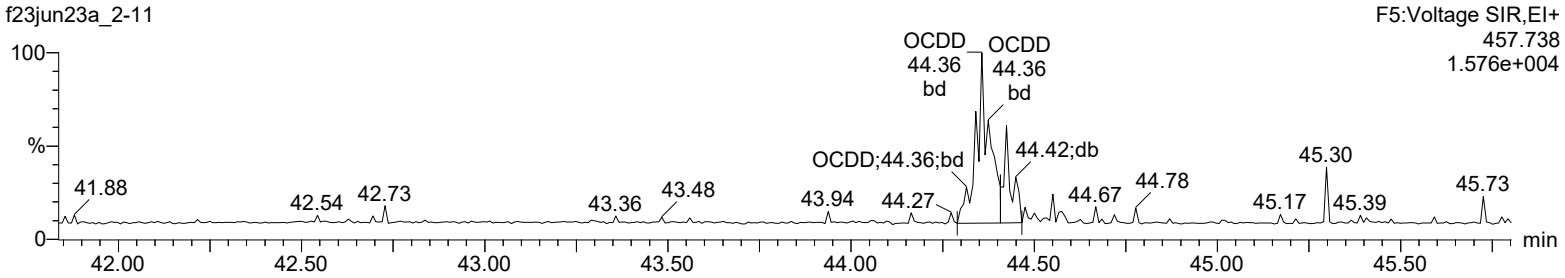
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

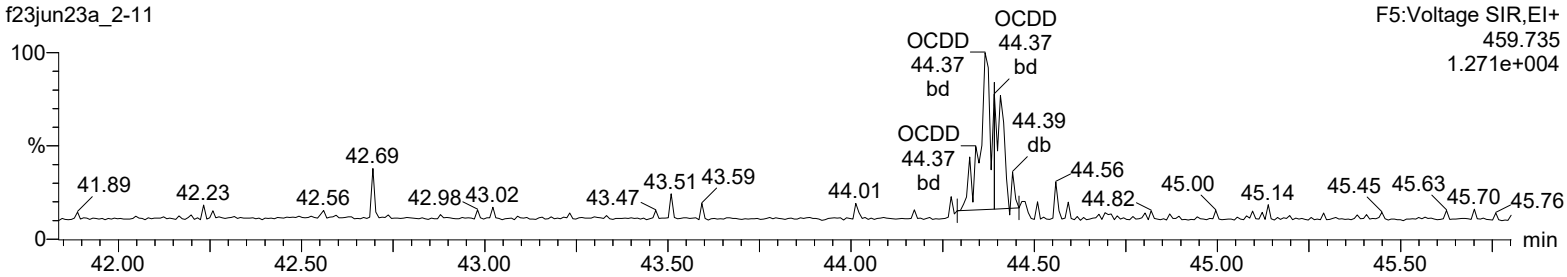
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

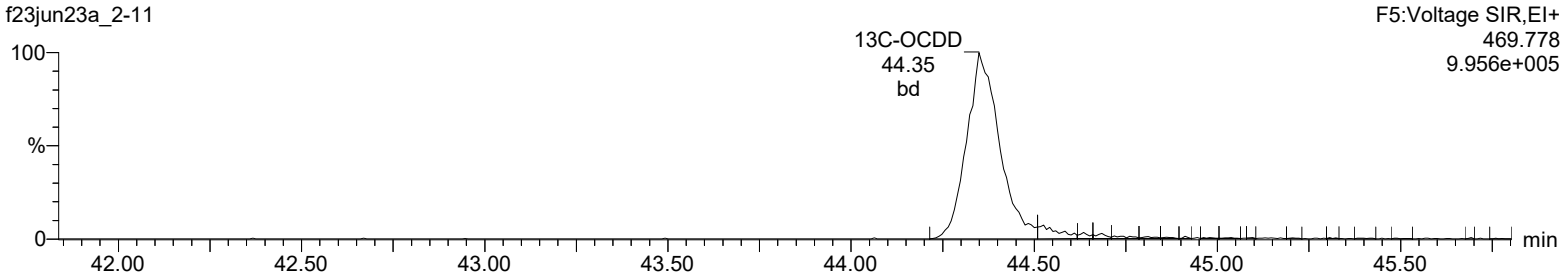
OCDD



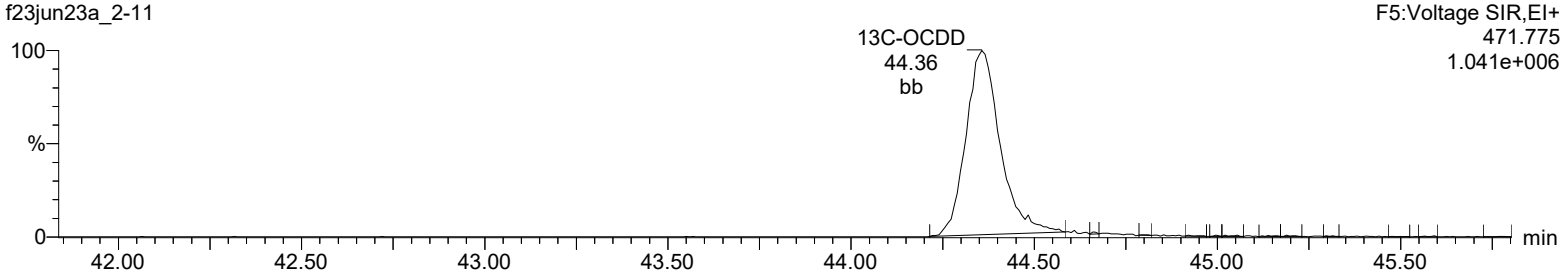
OCDD



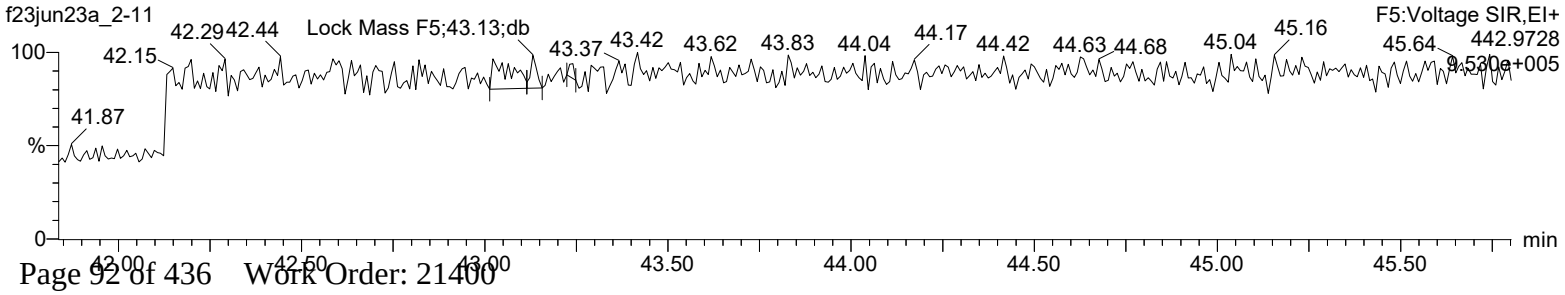
13C-OCDD



13C-OCDD



Lock Mass F5



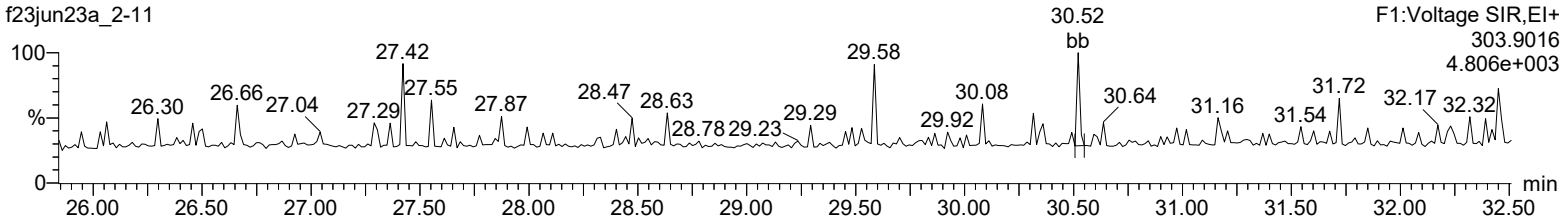
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

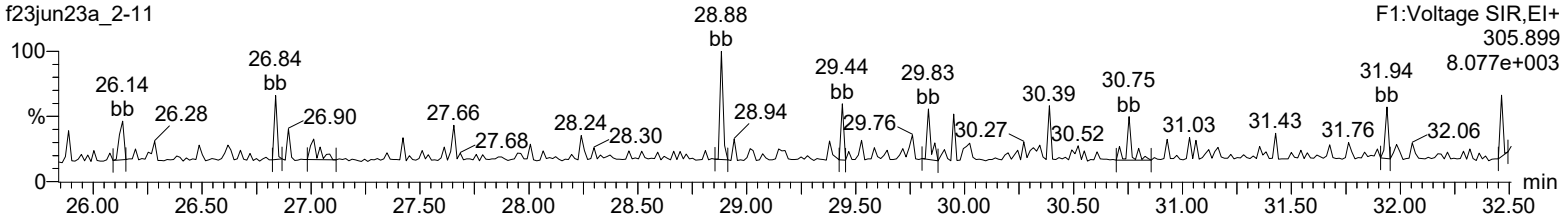
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

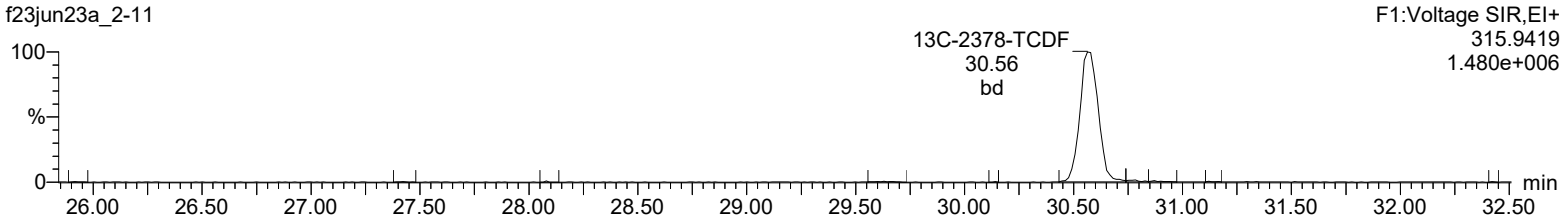
Total-tetrafurans



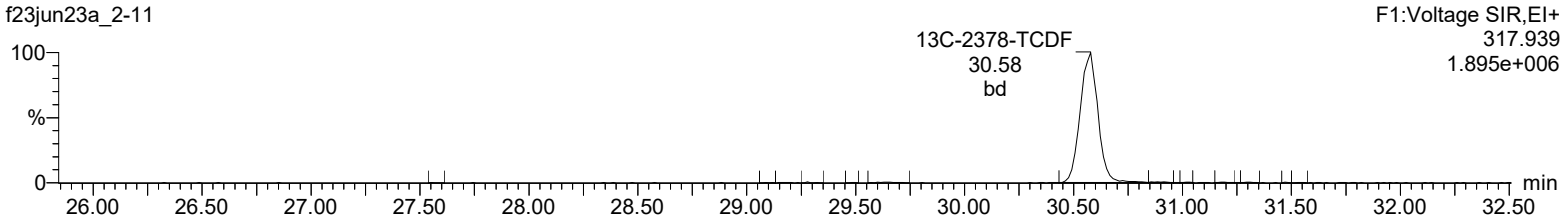
Total-tetrafurans



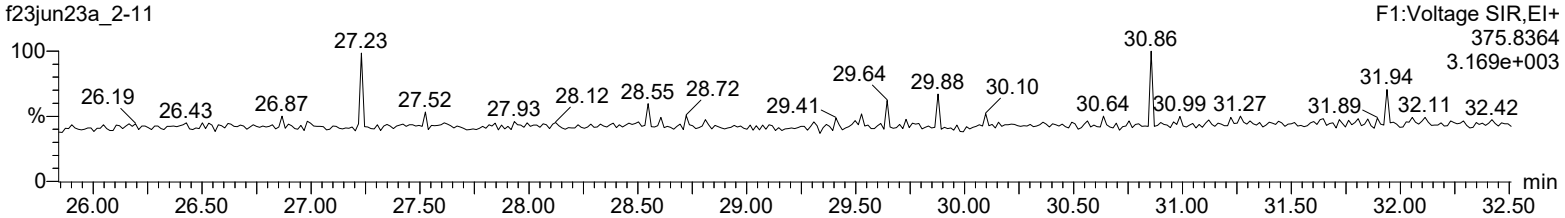
13C-2378-TCDF



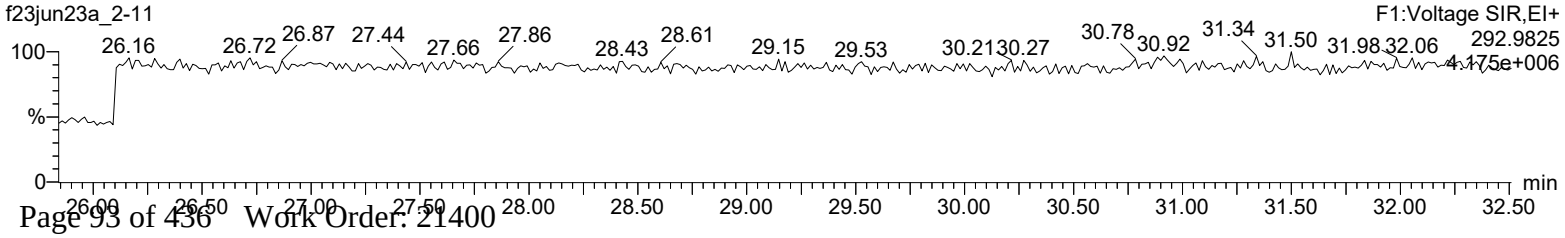
13C-2378-TCDF



HxDPE



Lock Mass F1



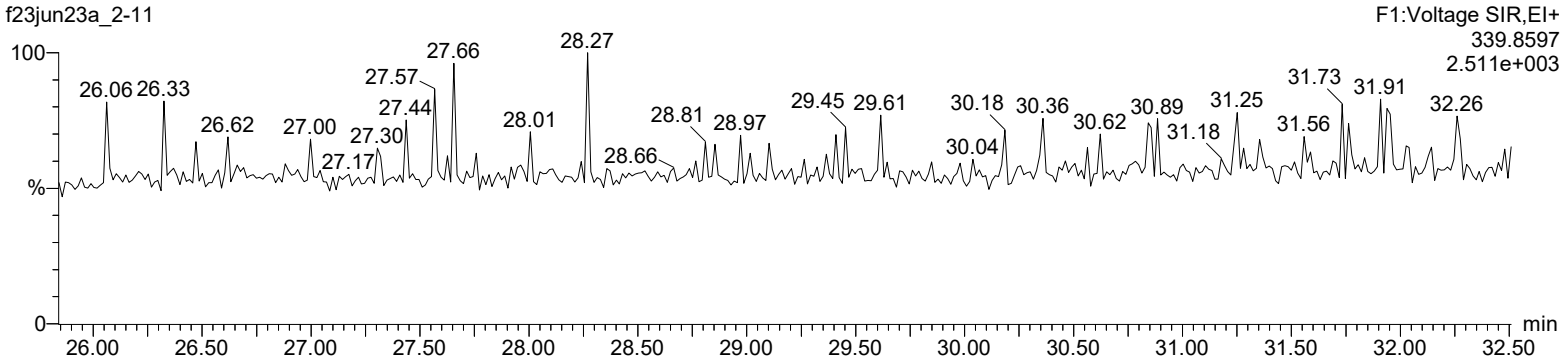
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

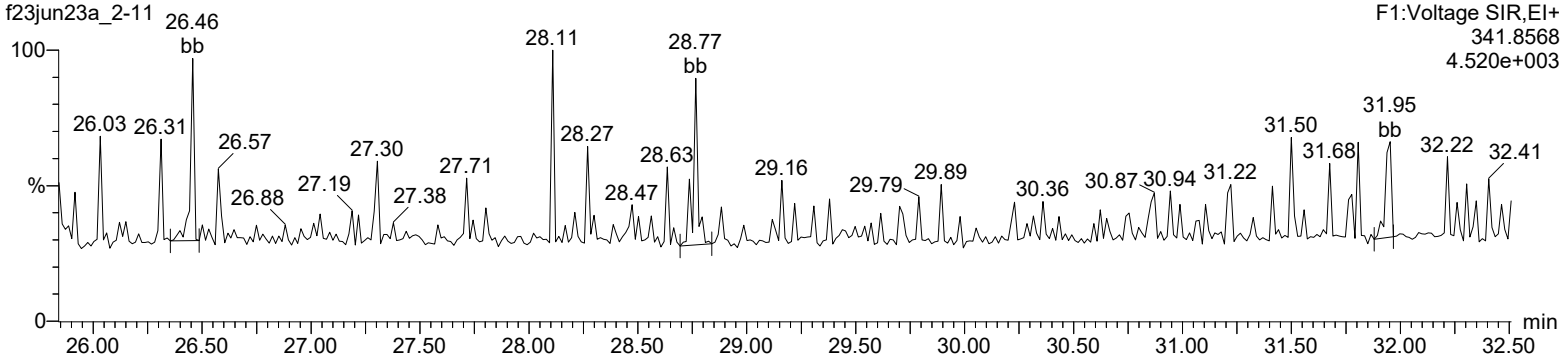
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

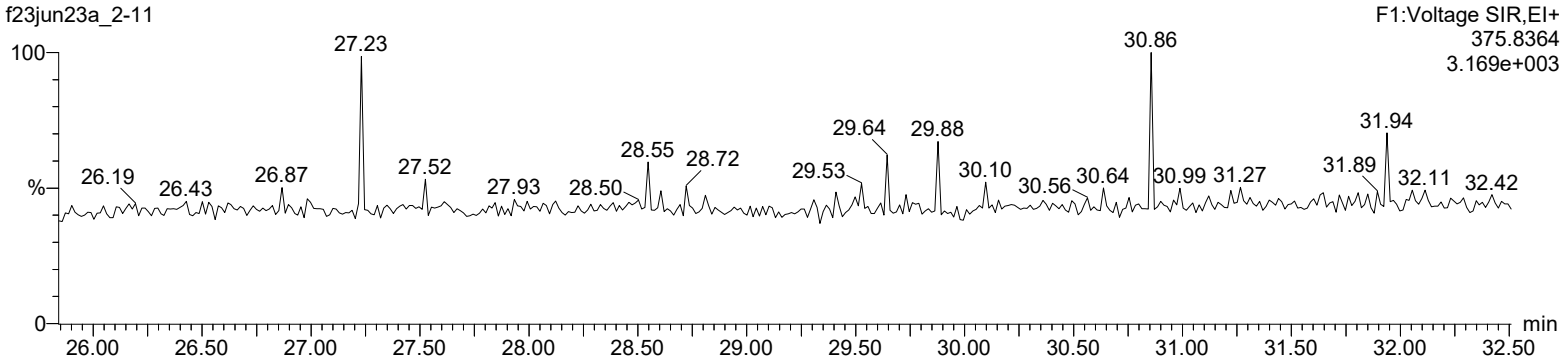
Total-pentafurans (F1)



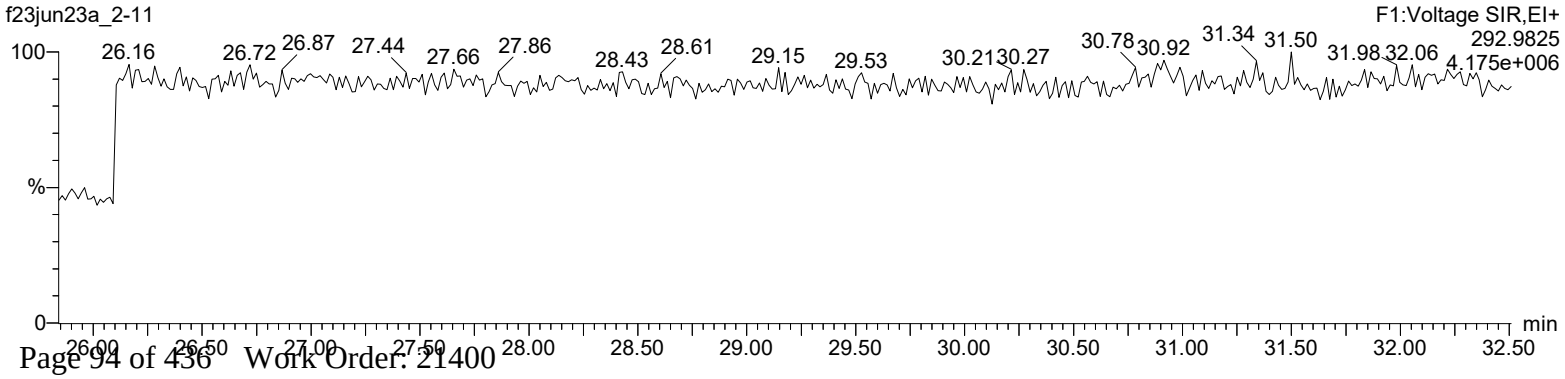
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
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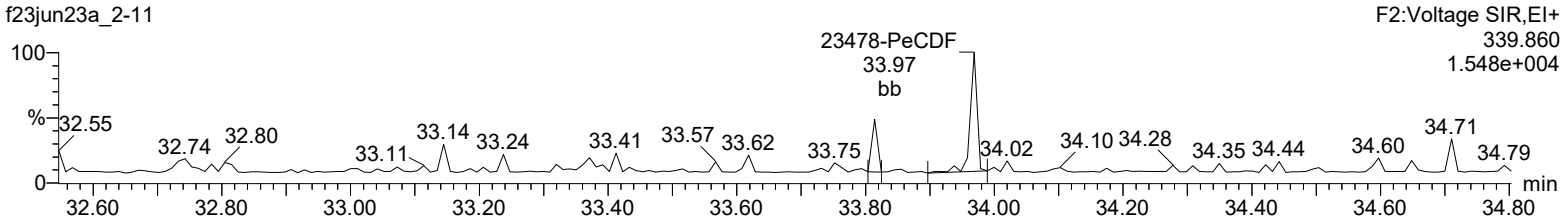
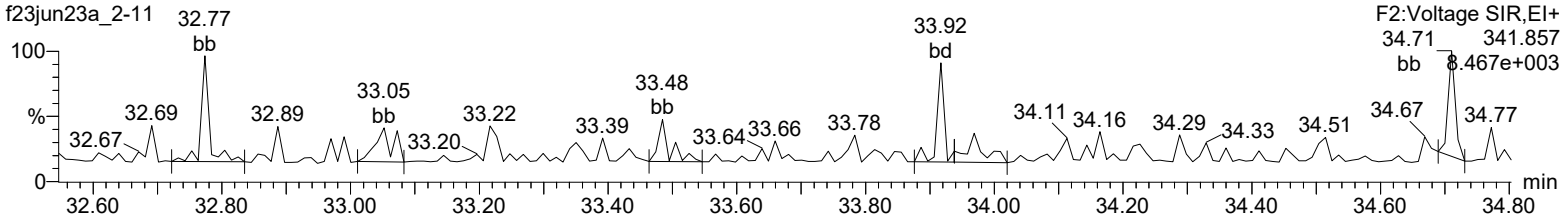
Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

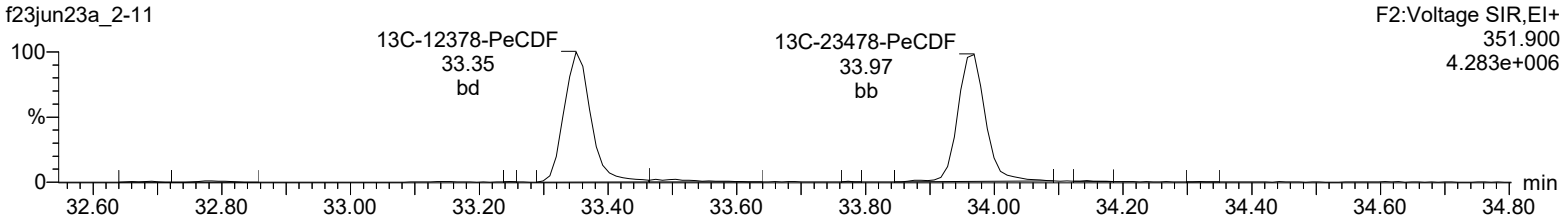
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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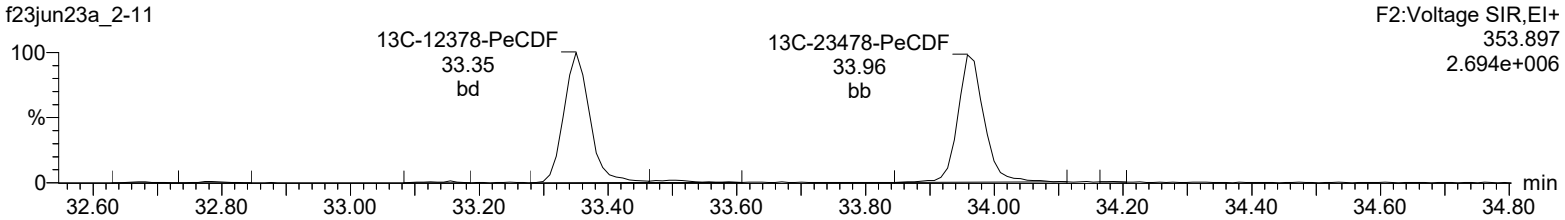
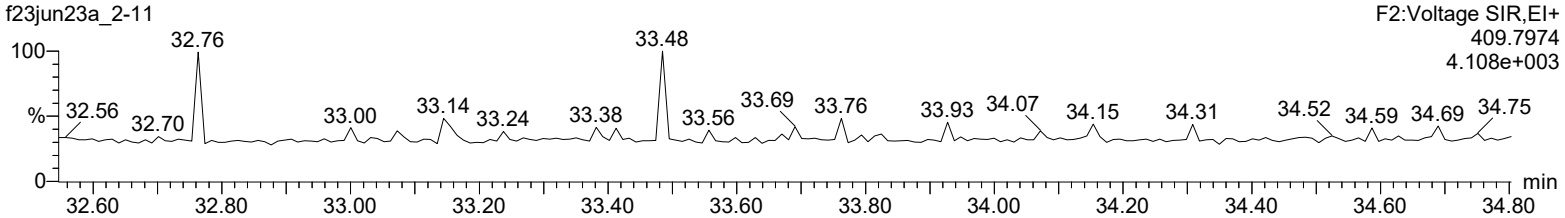
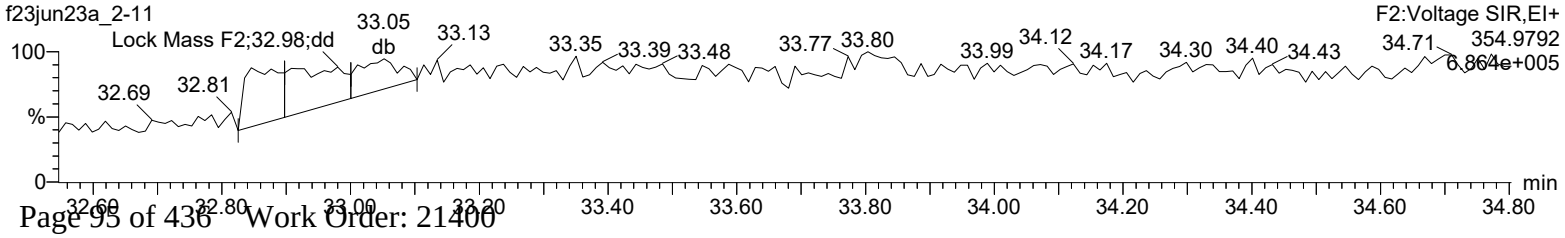


HpDPE



Lock Mass F2



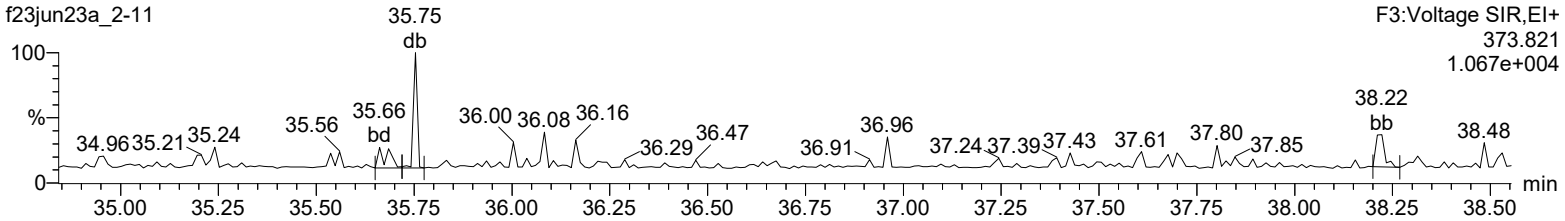
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

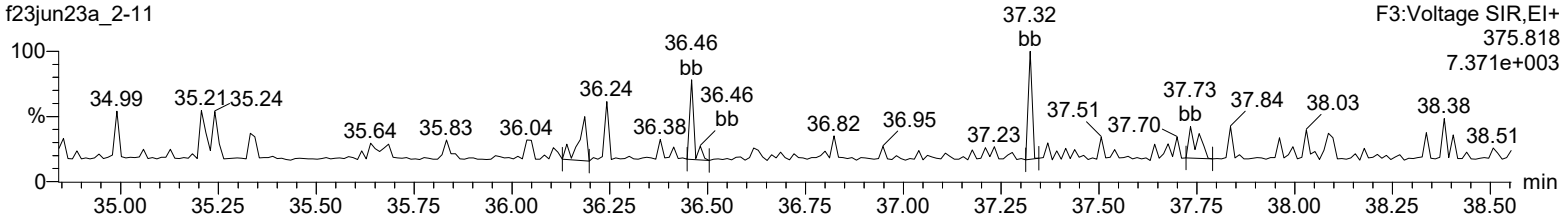
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

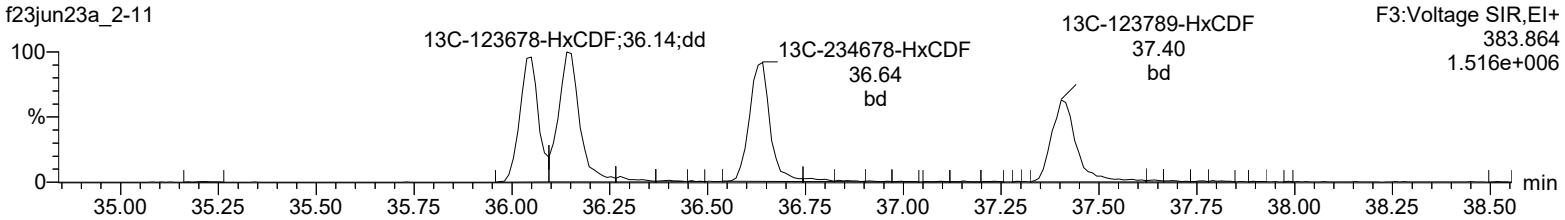
Total-hexafurans



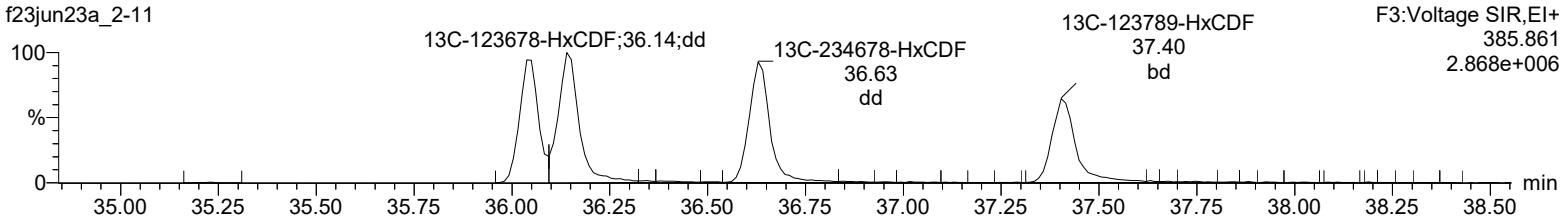
Total-hexafurans



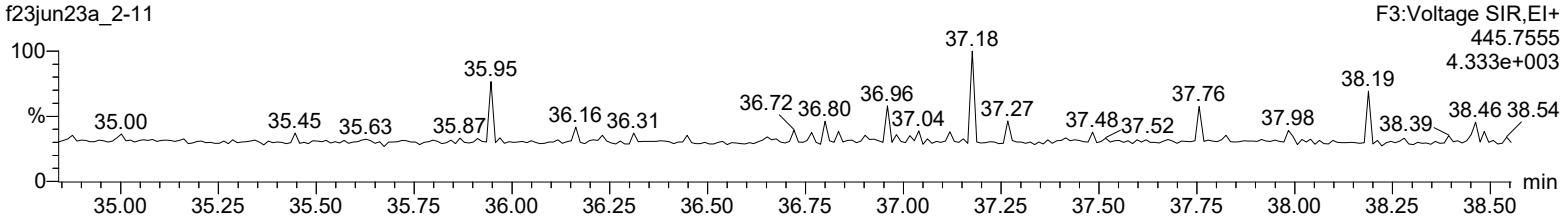
13C-123478-HxCDF



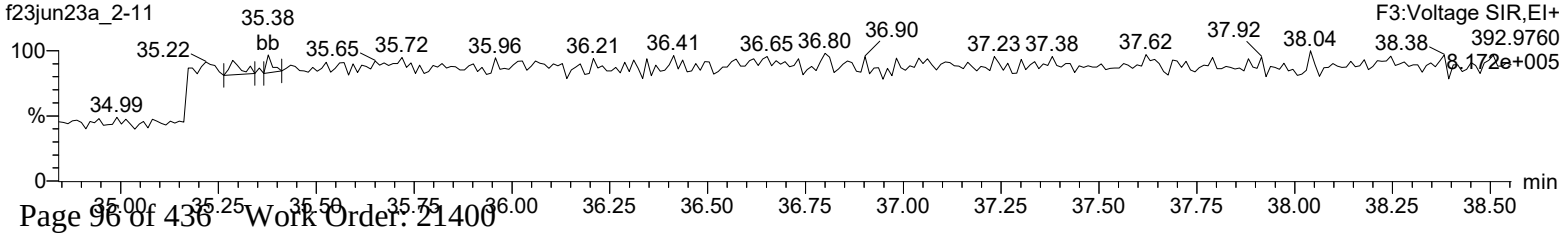
13C-123478-HxCDF



OcDPE



Lock Mass F3



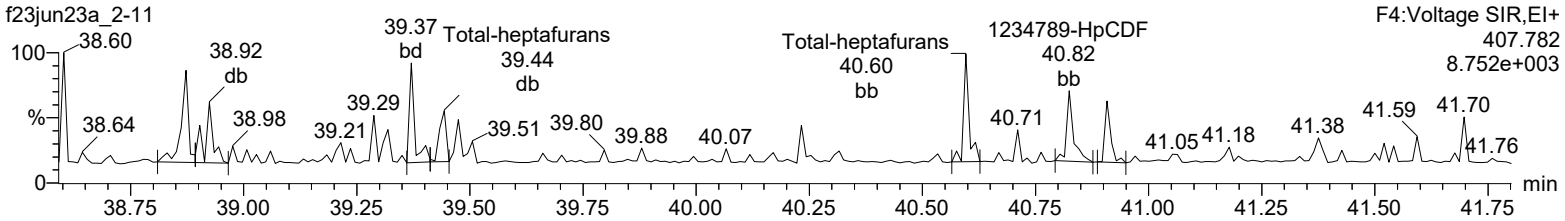
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

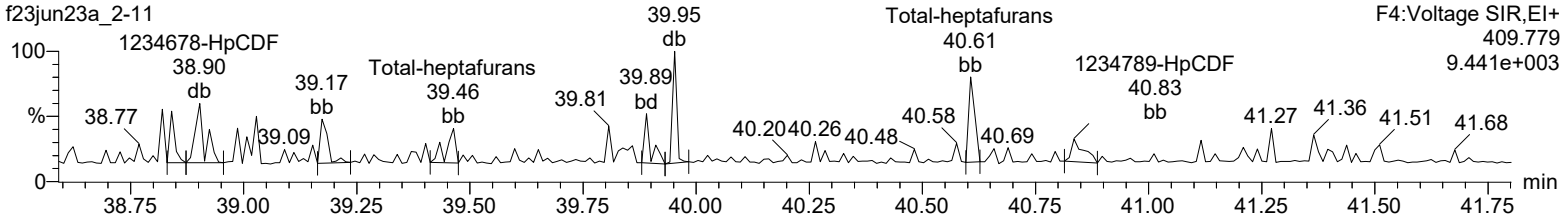
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

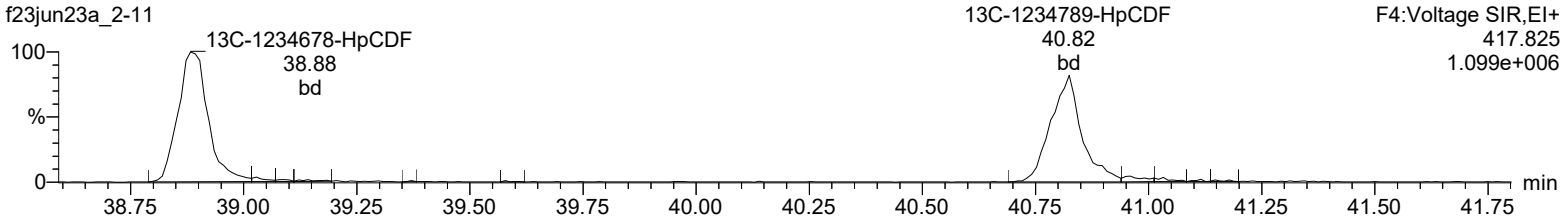
Total-heptafurans



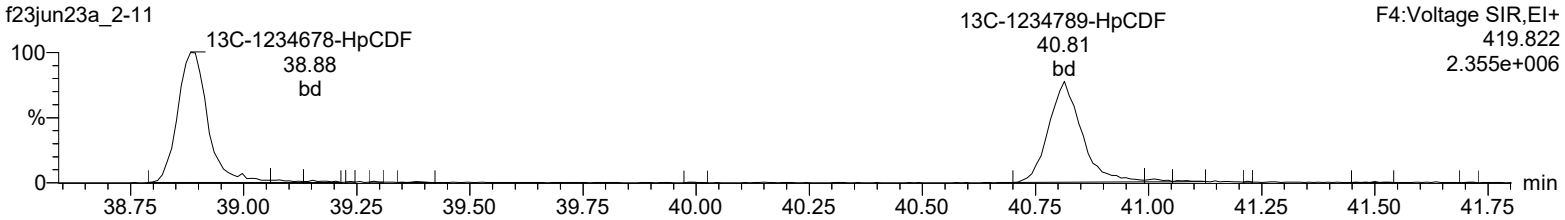
Total-heptafurans



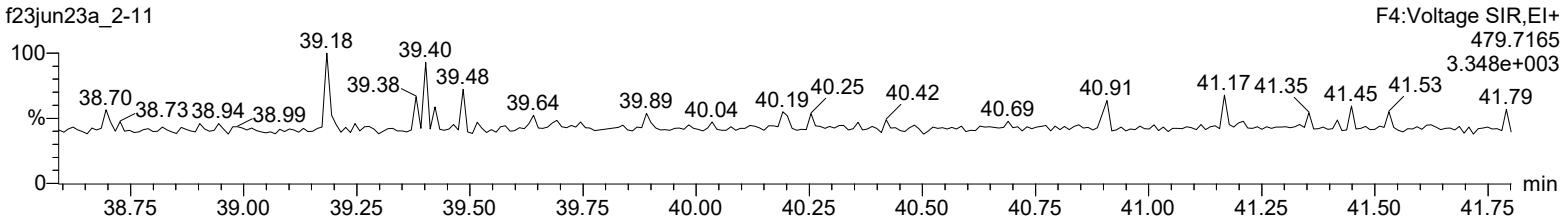
13C-1234678-HpCDF



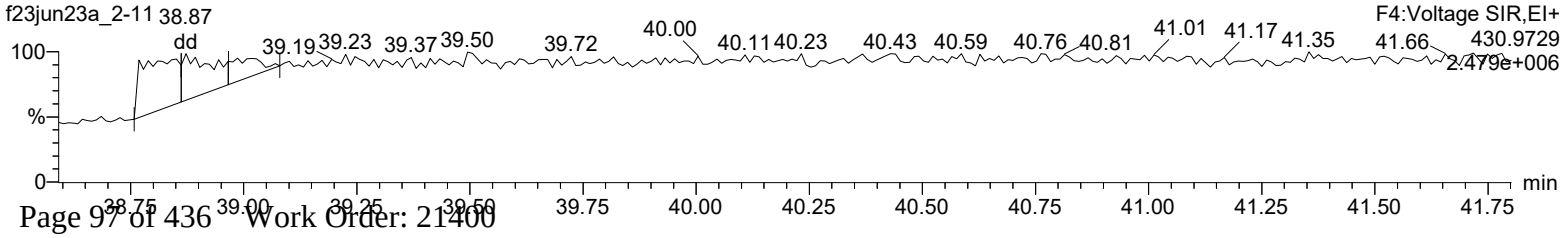
13C-1234678-HpCDF



NoDPE



Lock Mass F4



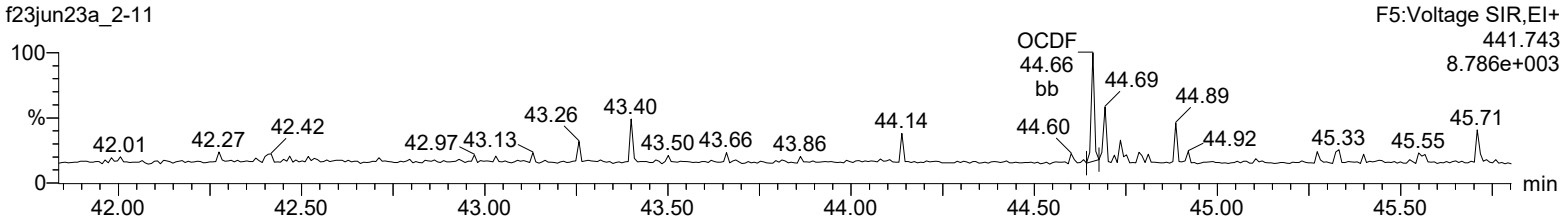
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

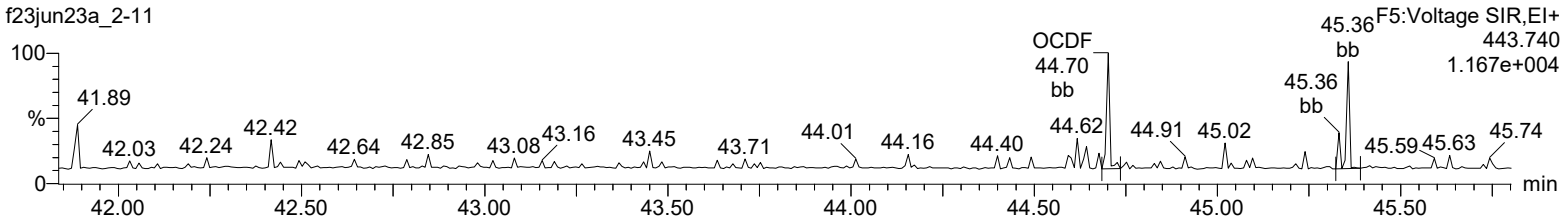
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-11, Date: 24-Jun-2023, Time: 05:25:25, ID: 21400003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

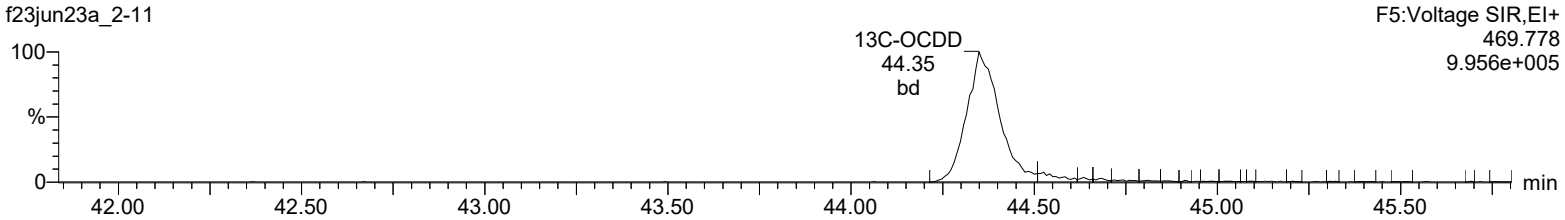
OCDF



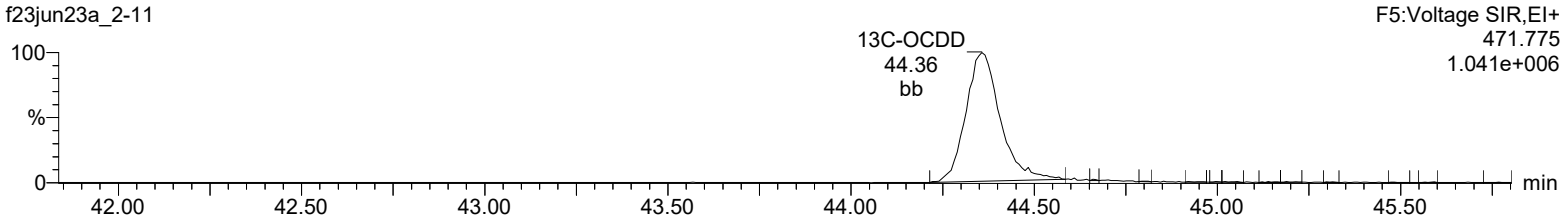
OCDF



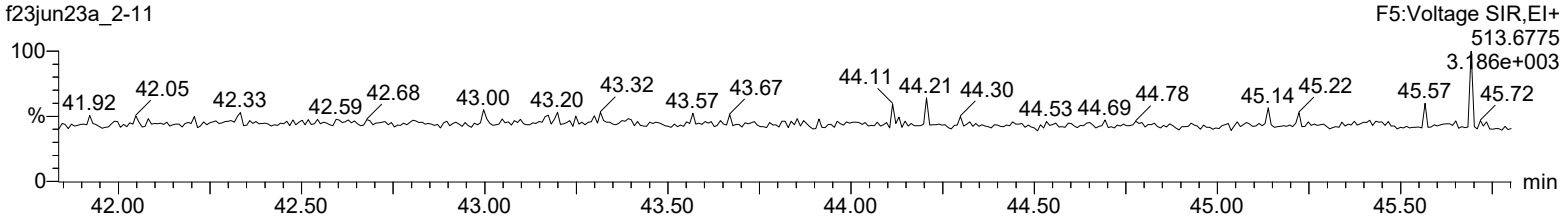
13C-OCDD



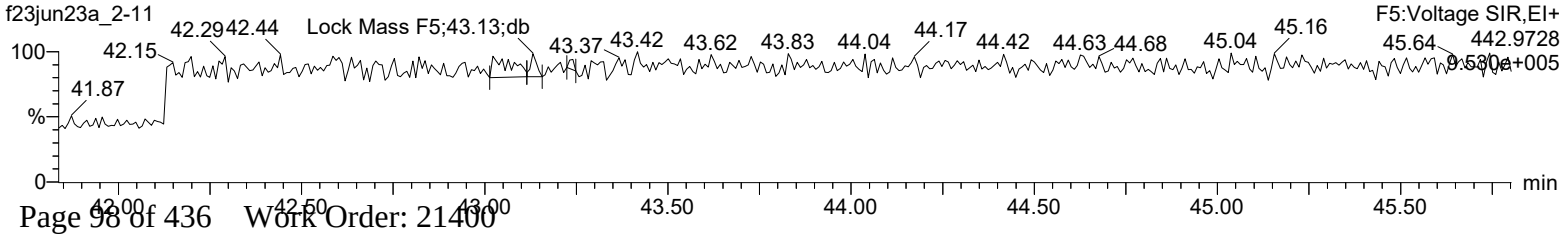
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400004**	**Date Collected:**	**03/09/2023 18:20**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR428-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 06:14**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-12**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**991.4 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.04	pg/L	2.04	5.04
40321-76-4	1,2,3,7,8-PeCDD	U	2.32	pg/L	2.32	25.2
39227-28-6	1,2,3,4,7,8-HxCDD	U	5.45	pg/L	5.45	50.4
57653-85-7	1,2,3,6,7,8-HxCDD	U	5.65	pg/L	5.65	50.4
19408-74-3	1,2,3,7,8,9-HxCDD	U	5.57	pg/L	5.57	50.4
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	17.2	pg/L	9.62	50.4
3268-87-9	1,2,3,4,6,7,8,9-OCDD	B	112	pg/L	17.5	101
51207-31-9	2,3,7,8-TCDF	U	2.72	pg/L	2.72	10.1
57117-41-6	1,2,3,7,8-PeCDF	U	1.91	pg/L	1.91	50.4
57117-31-4	2,3,4,7,8-PeCDF	U	1.99	pg/L	1.99	50.4
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.90	pg/L	1.90	50.4
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.84	pg/L	1.84	50.4
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.95	pg/L	1.95	50.4
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.84	pg/L	2.84	50.4
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	7.67	pg/L	4.86	50.4
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	6.82	pg/L	6.82	50.4
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	13.6	pg/L	5.59	101
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.04	pg/L	2.04	10.1
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.32	pg/L	2.32	50.4
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	5.45	pg/L	5.45	50.4
TCDF	Total Tetrachlorodibenzofuran	U	2.72	pg/L	2.72	10.1
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	38.0	pg/L	9.62	50.4
30402-15-4	Total Pentachlorodibenzofuran	U	1.91	pg/L	1.91	50.4
55684-94-1	Total Hexachlorodibenzofuran	JK	2.44	pg/L	1.84	50.4
38998-75-3	Total Heptachlorodibenzofuran	JK	19.5	pg/L	4.86	50.4
TEQ	TEQ WHO2005 ND=0		0.287	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.22	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1510	2020	pg/L	75.1	(25%-164%)
13C-1,2,3,7,8-PeCDD		1560	2020	pg/L	77.2	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1470	2020	pg/L	72.7	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1360	2020	pg/L	67.3	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1480	2020	pg/L	73.4	(23%-140%)
13C-OCDD		2780	4030	pg/L	68.9	(17%-157%)
13C-2,3,7,8-TCDF		1410	2020	pg/L	69.7	(24%-169%)
13C-1,2,3,7,8-PeCDF		1450	2020	pg/L	71.9	(24%-185%)
13C-2,3,4,7,8-PeCDF		1530	2020	pg/L	75.7	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1380	2020	pg/L	68.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1340	2020	pg/L	66.4	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1450	2020	pg/L	71.8	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1370	2020	pg/L	68.0	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400004**	**Date Collected:**	**03/09/2023 18:20**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR428-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 06:14**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-12**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**991.4 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1400	2020	pg/L	69.5	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1530	2020	pg/L	75.6	(26%-138%)
37Cl-2,3,7,8-TCDD		190	202	pg/L	94.0	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-12.qld

Last Altered: Wednesday, June 28, 2023 10:49:08 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:07:38 PM Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.101		789			663			
2	12378-PeCDD							NO		0.115		933			691			
3	123478-HxCDD							NO		0.270		1397			1494			
4	123678-HxCDD							NO		0.280		1397			1494			
5	123789-HxCDD							NO		0.276		1397			1494			
6	1234678-HpCDD	7.45e2	7.09e2	1.45e3	40.18	1.001	1.05	NO	0.855	0.477	1.11e4	1981	5.6	1.47e4	1966	7.5	MM	MM
7	OCDD	3.06e3	3.43e3	6.50e3	44.39	1.001	0.89	NO	5.544	0.868	4.01e4	1815	22.1	4.00e4	1786	22.4	MM	MM
8	2378-TCDF							NO		0.135		1140			1151			
9	12378-PeCDF							NO		0.0948		1501			1693			
10	23478-PeCDF							NO		0.0987		1501			1693			
11	123478-HxCDF							NO		0.0940		788			1183			
12	123678-HxCDF							NO		0.0912		788			1183			
13	234678-HxCDF							NO		0.0968		788			1183			
14	123789-HxCDF							NO		0.141		788			1183			
15	1234678-HpCDF	5.80e2	7.41e2	1.32e3	38.90	1.000	0.78	YES	0.380	0.241	9.45e3	1965	4.8	1.24e4	2505	5.0	MM	MM
16	1234789-HpCDF							NO		0.338		1965			2505			
17	OCDF	6.28e2	6.27e2	1.25e3	44.71	1.008	1.00	NO	0.676	0.277	1.04e4	795	13.1	9.66e3	1022	9.5	MM	MM
18	13C-2378-TCDD	9.60e4	1.23e5	2.19e5	31.28	1.017	0.78	NO	75.093	0.384	1.43e6	3292	434.8	1.71e6	2053	833.0	bd	bd
19	13C-12378-PeCDD	1.01e5	5.99e4	1.61e5	34.15	1.110	1.68	NO	77.229	0.596	1.89e6	2582	733.4	1.16e6	3345	347.5	bd	bd
20	13C-123478-HxCDD	8.16e4	6.35e4	1.45e5	36.77	0.991	1.28	NO	72.722	1.04	1.40e6	5600	250.3	1.05e6	5673	185.6	bd	bd
21	13C-123678-HxCDD	9.14e4	7.13e4	1.63e5	36.86	0.994	1.28	NO	67.269	0.862	1.36e6	5600	243.5	1.11e6	5673	195.5	dd	dd
22	13C-1234678-HpCDD	7.03e4	6.81e4	1.38e5	40.15	1.082	1.03	NO	73.411	0.681	8.55e5	3986	214.5	8.23e5	2948	279.1	bd	bd
23	13C-OCDD	1.00e5	1.12e5	2.12e5	44.36	1.196	0.89	NO	137.833	0.537	8.86e5	2708	327.1	1.02e6	1750	581.0	bd	bd
24	13C-2378-TCDF	1.39e5	1.70e5	3.09e5	30.58	0.994	0.82	NO	69.659	0.364	1.41e6	4434	317.5	1.72e6	3277	524.7	bd	bb
25	13C-12378-PeCDF	1.97e5	1.19e5	3.16e5	33.36	1.084	1.66	NO	71.906	0.891	4.12e6	11977	344.2	2.37e6	6749	351.6	bd	bd
26	13C-23478-PeCDF	1.95e5	1.18e5	3.13e5	33.97	1.104	1.65	NO	75.707	0.946	3.61e6	11977	301.5	2.18e6	6749	322.6	bb	bd
27	13C-123478-HxCDF	7.27e4	1.35e5	2.08e5	36.05	0.972	0.54	NO	68.424	0.908	1.29e6	6075	212.7	2.38e6	8845	269.6	bd	bd
28	13C-123678-HxCDF	8.93e4	1.60e5	2.50e5	36.15	0.975	0.56	NO	66.366	0.733	1.40e6	6075	230.8	2.51e6	8845	283.3	dd	db
29	13C-234678-HxCDF	8.02e4	1.46e5	2.26e5	36.64	0.988	0.55	NO	71.832	0.876	1.27e6	6075	208.7	2.30e6	8845	260.6	bb	bb
30	13C-123789-HxCDF	6.56e4	1.25e5	1.91e5	37.42	1.009	0.53	NO	68.013	0.985	9.25e5	6075	152.3	1.78e6	8845	200.9	bb	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-12.qld

Last Altered: Wednesday, June 28, 2023 10:49:08 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:07:38 PM Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	8.04e4	1.71e5	2.51e5	38.89	1.048	0.47	NO	69.477	0.990	1.07e6	11403	94.1	2.33e6	7969	291.8	bd	bd
32	13C-1234789-HpCDF	6.83e4	1.45e5	2.13e5	40.83	1.100	0.47	NO	75.598	1.27	7.77e5	11403	68.2	1.62e6	7969	203.6	bb	bd
33	13C-1234-TCDD	1.14e5	1.41e5	2.56e5	30.77	0.000	0.81	NO	100.000	0.437	1.37e6	3292	415.6	1.74e6	2053	847.5	bb	bb
34	13C-123789-HxCDD	1.32e5	1.03e5	2.35e5	37.10	0.000	1.28	NO	100.000	0.886	1.78e6	5600	318.7	1.46e6	5673	257.1	dd	dd
35	37Cl-2378-TCDD	2.70e4		2.70e4	31.31	1.018			9.401	0.122	3.82e5	1681	227.0				bb	

Reasons for Analyst Intervention

Name:f23jun23a_2-12, ID:21400004-1, Description: 52698

M	M2
6 1234678-HpCDD 40.18 - AB	6 1234678-HpCDD 40.18 - AB
7 OCDD 44.39 - AB	7 OCDD 44.39 - AB
15 1234678-HpCDF 38.90 - AB	15 1234678-HpCDF 38.90 - AB
17 OCDF 44.71 - AB	17 OCDF 44.71 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-12.qld

Last Altered: Wednesday, June 28, 2023 10:49:08 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:07:38 PM Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	1.48e2	8.28e1	2.30e2	36.17	1.78	YES	0.140	0.276	3.84e3	1397	2.8	4.70e3	1494	3.1	bd	bb
2	Total-hexadioxins	5.10e1	1.21e2	1.72e2	37.73	0.42	YES	0.105	0.276	2.25e3	1397	1.6	4.24e3	1494	2.8	bb	dd
3	Total-hexadioxins	8.12e1	2.03e2	2.84e2	37.81	0.40	YES	0.173	0.276	2.58e3	1397	1.8	4.23e3	1494	2.8	bb	dd
4	Total-hexadioxins	9.79e1	5.61e1	1.54e2	37.97	1.75	YES	0.094	0.276	2.62e3	1397	1.9	2.88e3	1494	1.9	bb	db
5	Total-hexadioxins	8.37e1	9.40e1	1.78e2	38.11	0.89	YES	0.108	0.276	3.54e3	1397	2.5	4.03e3	1494	2.7	bb	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	7.75e2	9.77e2	1.75e3	39.22	0.79	YES	1.031	0.477	1.17e4	1981	5.9	1.97e4	1966	10.0	MM	bb
2	Total-heptadioxins	5.90e1	9.41e1	1.53e2	39.37	0.63	YES	0.090	0.477	4.08e3	1981	2.1	4.48e3	1966	2.3	bb	bb
3	1234678-HpCDD	7.45e2	7.09e2	1.45e3	40.18	1.05	NO	0.855	0.477	1.11e4	1981	5.6	1.47e4	1966	7.5	MM	MM

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	7.73e1	5.96e1	1.37e2	29.22	1.30	YES	0.033	0.135	2.64e3	1140	2.3	3.88e3	1151	3.4	bb	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-12.qld

Last Altered: Wednesday, June 28, 2023 10:49:08 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:07:38 PM Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	1.81e2	1.84e2	3.65e2	35.25	0.98	YES	0.121	0.104	4.22e3	788	5.4	7.90e3	1183	6.7	bb	bb
2	Total-hexafurans	1.74e2	1.05e2	2.79e2	36.07	1.66	YES	0.093	0.104	4.02e3	788	5.1	5.13e3	1183	4.3	bb	bb

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDF	5.80e2	7.41e2	1.32e3	38.90	0.78	YES	0.380	0.241	9.45e3	1965	4.8	1.24e4	2505	5.0	MM	MM
2	Total-heptafurans	6.95e2	1.18e3	1.87e3	39.42	0.59	YES	0.586	0.285	1.13e4	1965	5.8	2.21e4	2505	8.8	bb	MM
3	Total-heptafurans	1.41e2	6.86e1	2.09e2	40.95	2.05	YES	0.066	0.285	8.87e3	1965	4.5	2.68e3	2505	1.1	bd	bb
4	Total-heptafurans	8.02e1	5.41e1	1.34e2	41.08	1.48	YES	0.042	0.285	6.09e3	1965	3.1	5.20e3	2505	2.1	bb	bb
5	Total-heptafurans	6.28e1	7.00e1	1.33e2	41.39	0.90	NO	0.042	0.285	6.05e3	1965	3.1	4.51e3	2505	1.8	bb	db

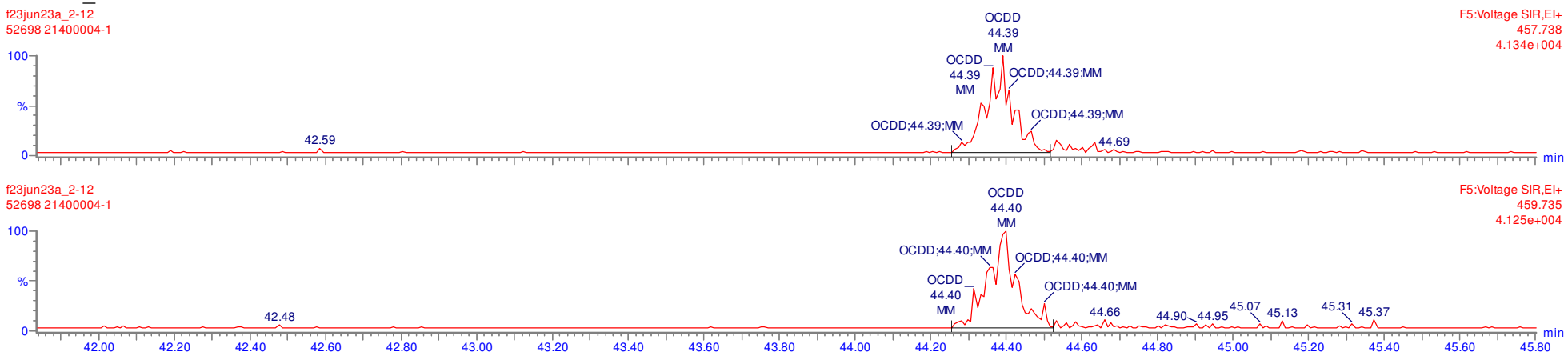
Reasons for Analyst Intervention

Name:f23jun23a_2-12, ID:21400004-1, Description: 52698

M	M2
1 Total-heptadioxins 39.22 - AB	
3 1234678-HpCDD 40.18 - AB	3 1234678-HpCDD 40.18 - AB
1 1234678-HpCDF 38.90 - AB	1 1234678-HpCDF 38.90 - AB
	2 Total-heptafurans 39.42 - AB

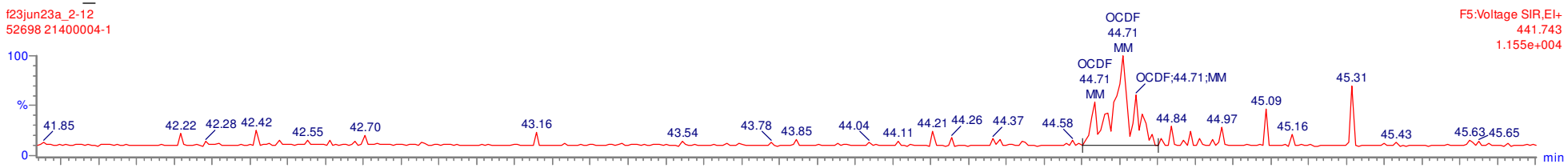
Reason Codes assigned by MW1 on 28-JUN-23

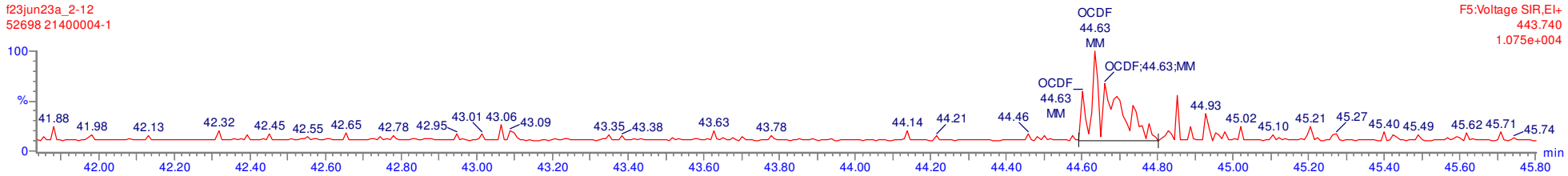
MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/28/2023 06/28/2023

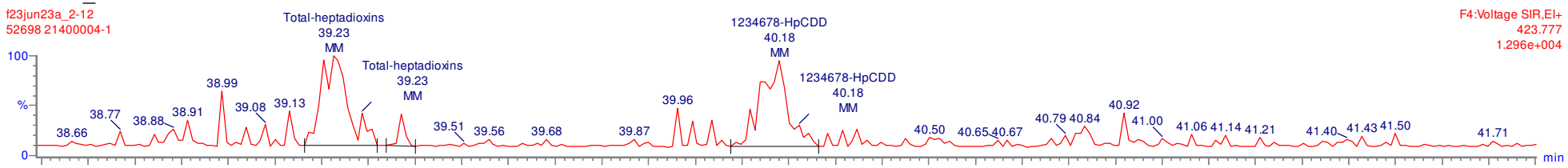
MANUAL INTEGRATION
METHOD 1613
HRP722_2

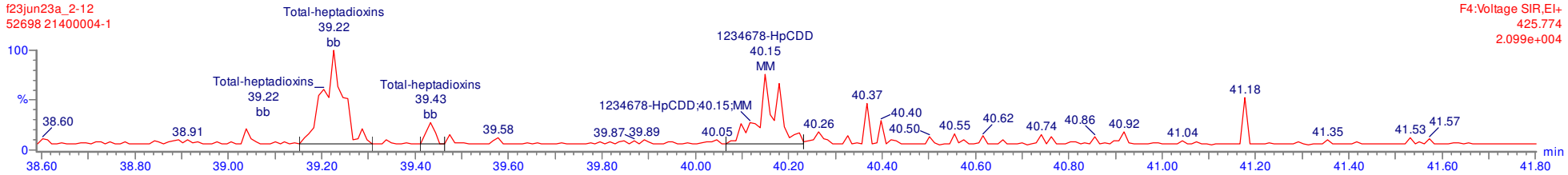




06/28/2023 06/28/2023

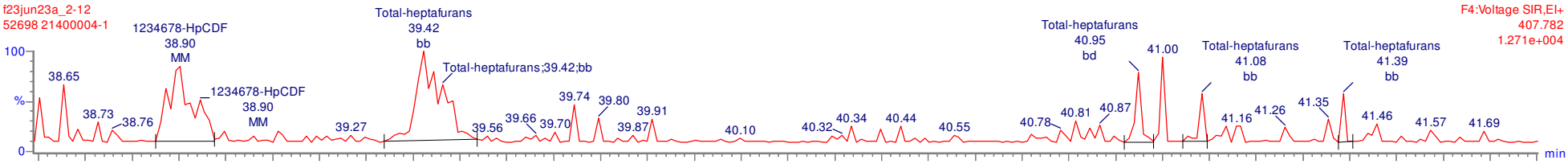
MANUAL INTEGRATION
METHOD 1613
HRP722_2

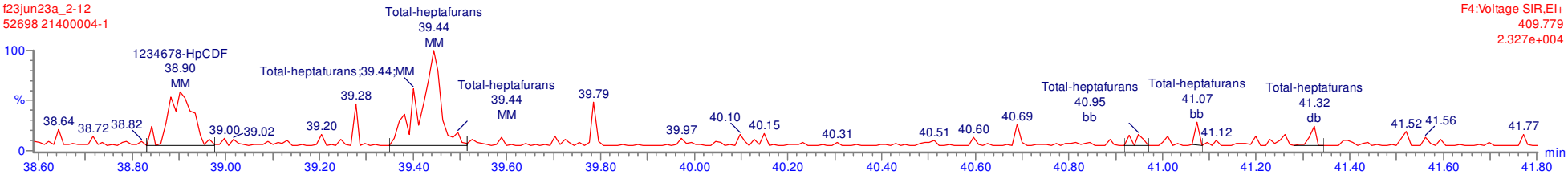




06/28/2023 06/28/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/28/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

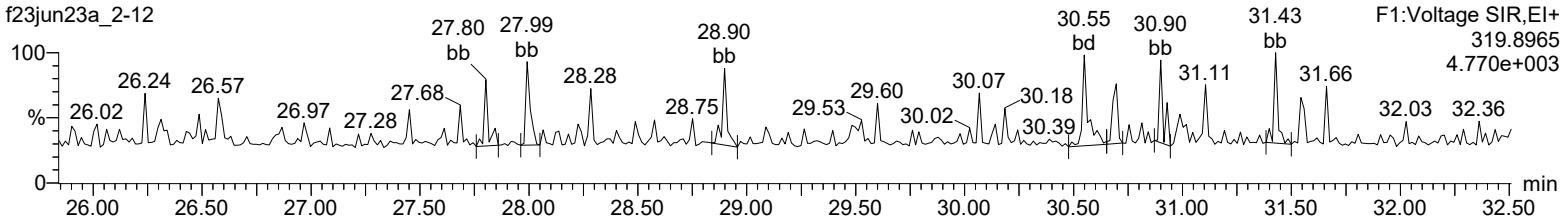
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

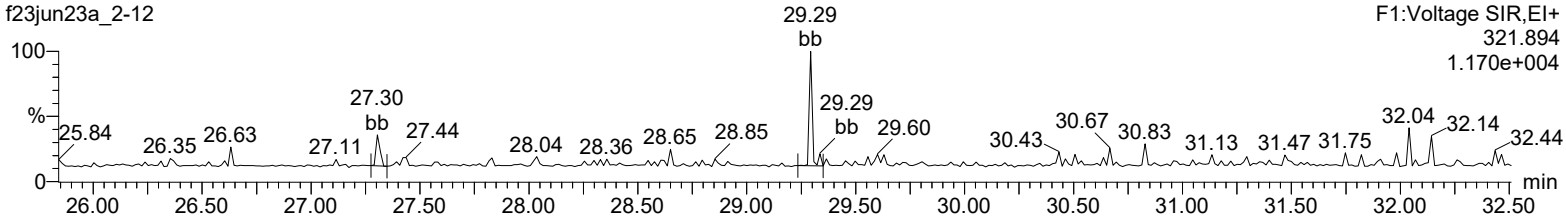
AMA 06/28/2023

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

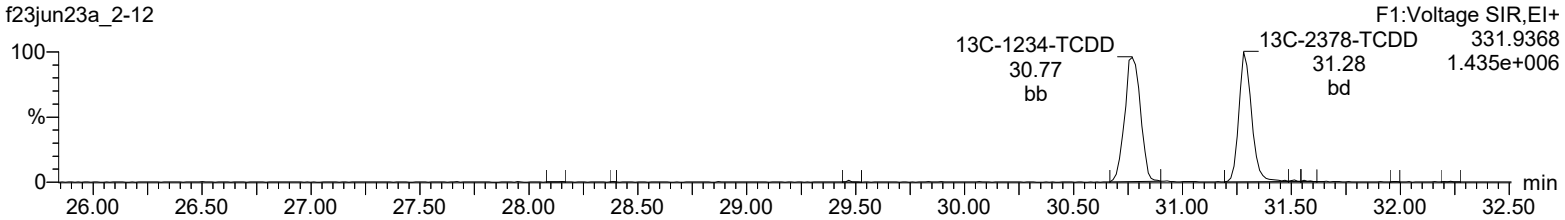
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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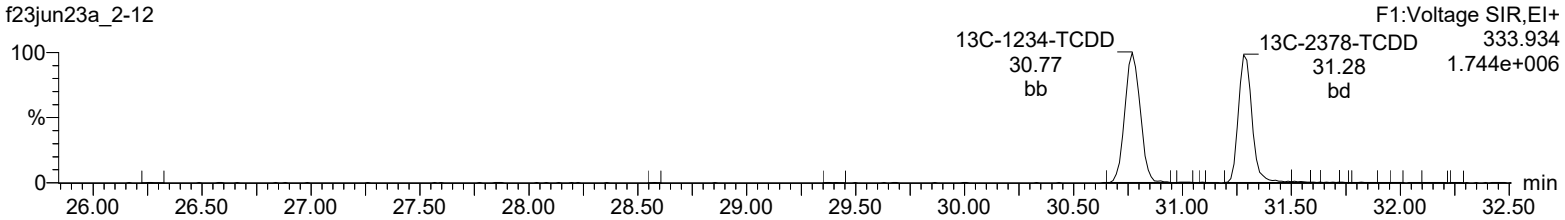

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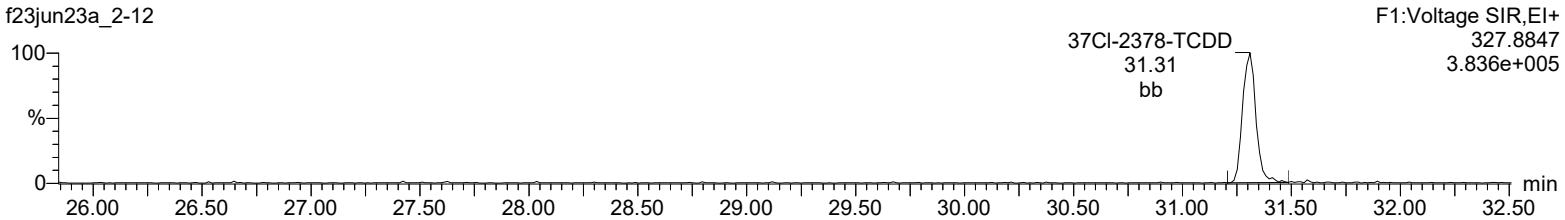

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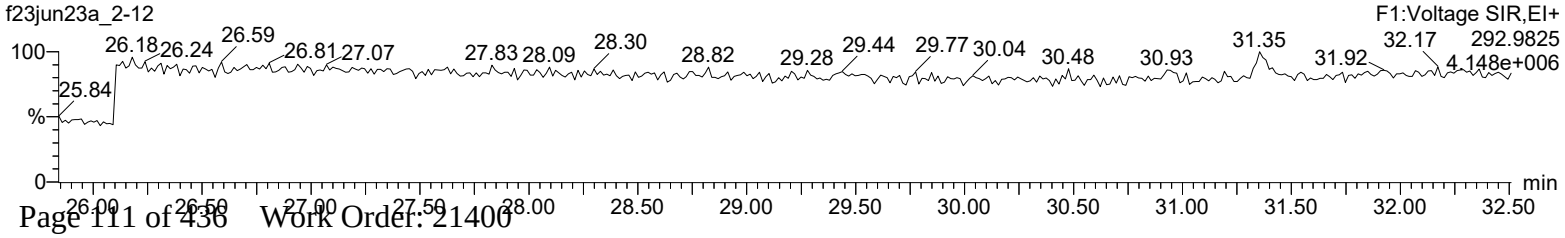


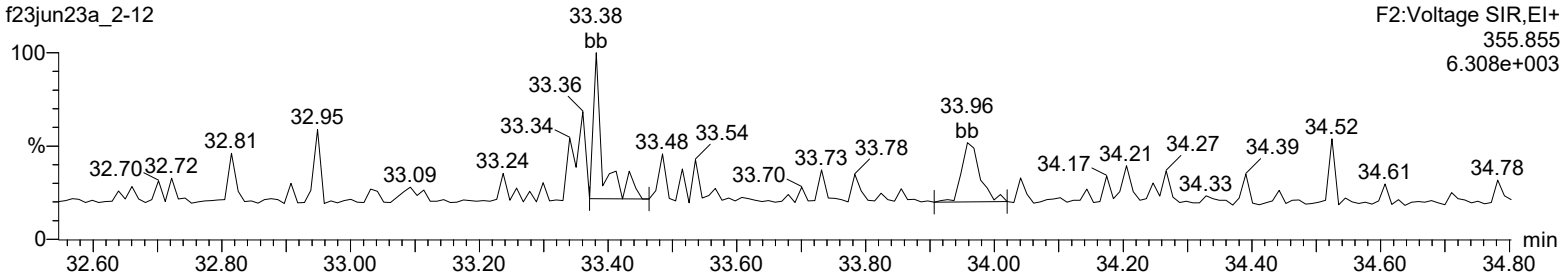
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

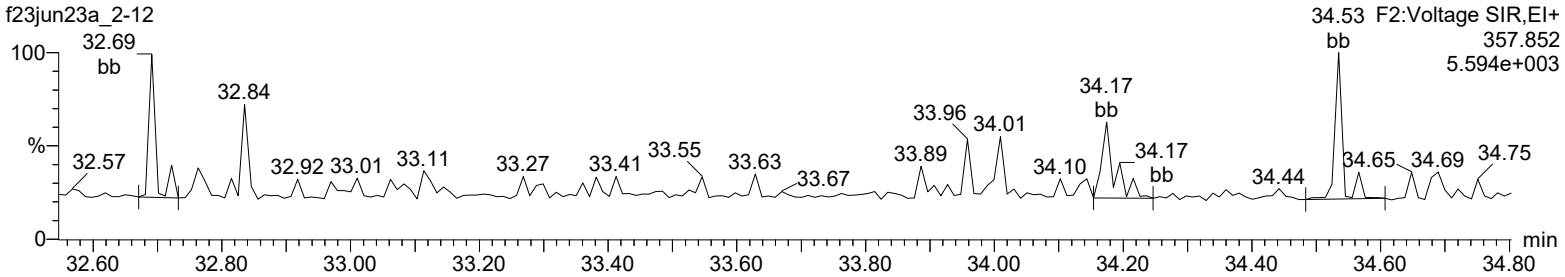
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

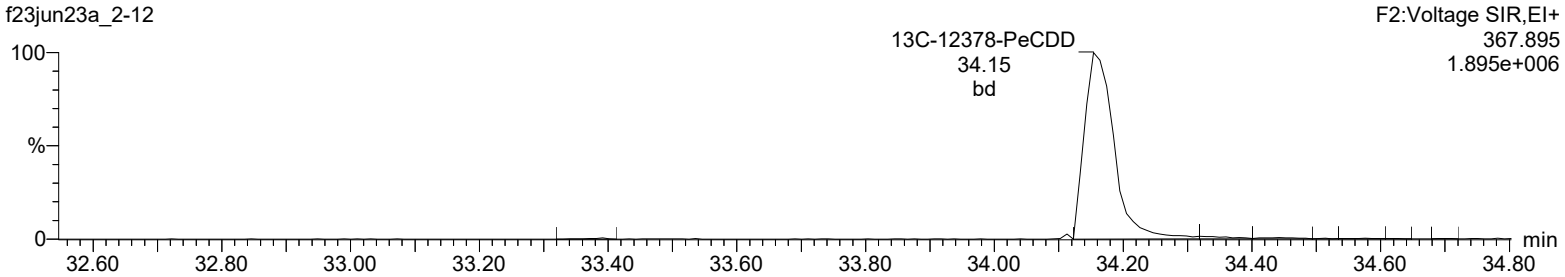
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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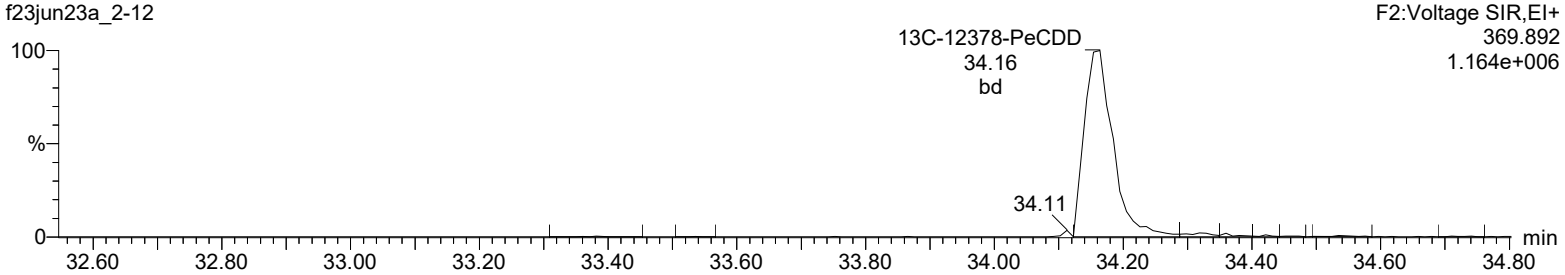

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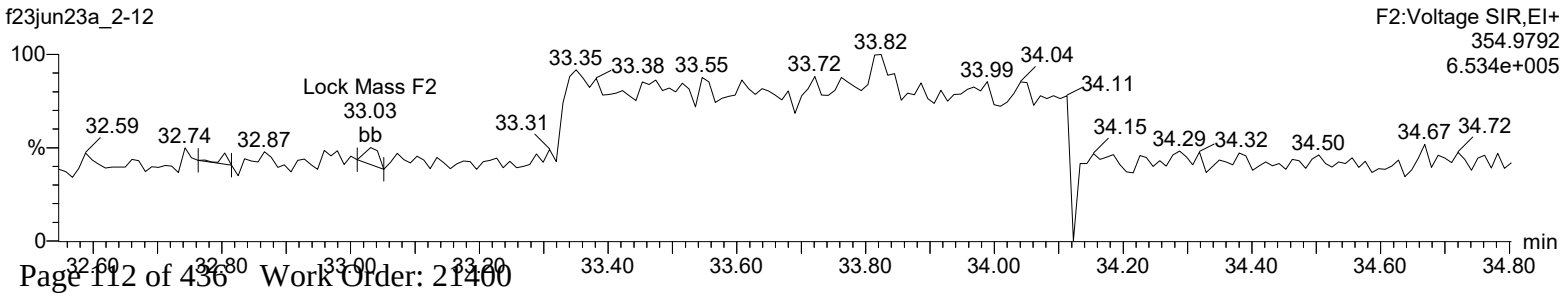


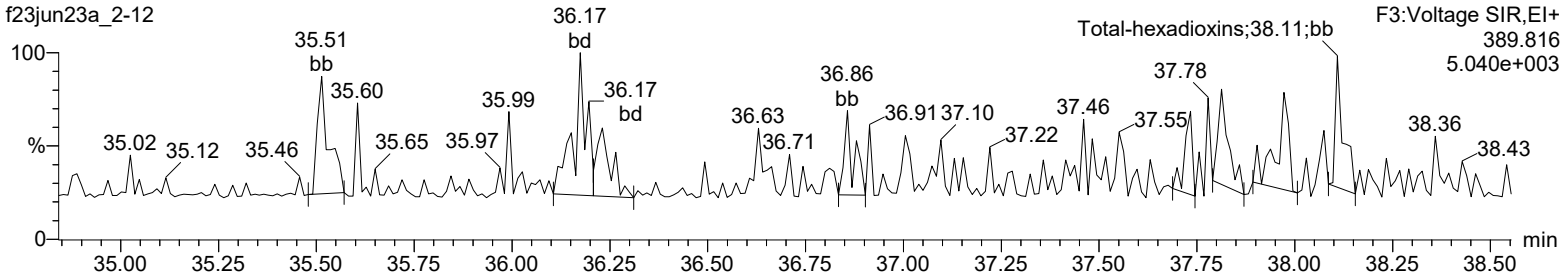
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

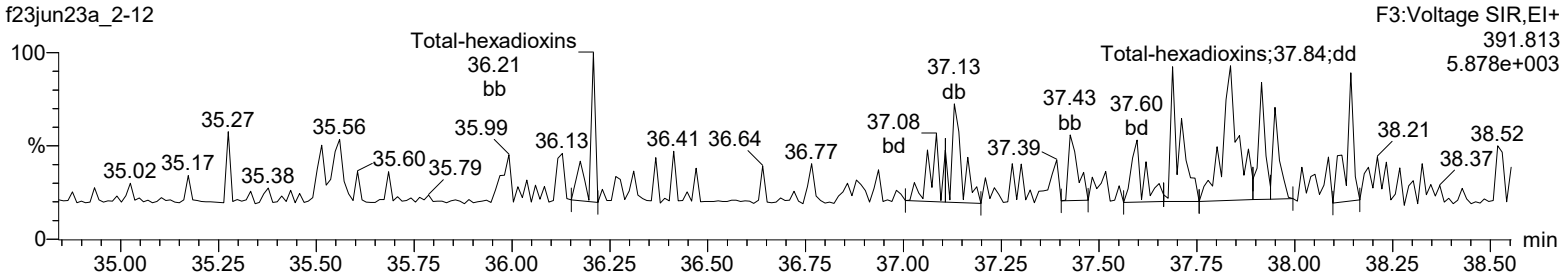
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-hexadioxins



Total-hexadioxins



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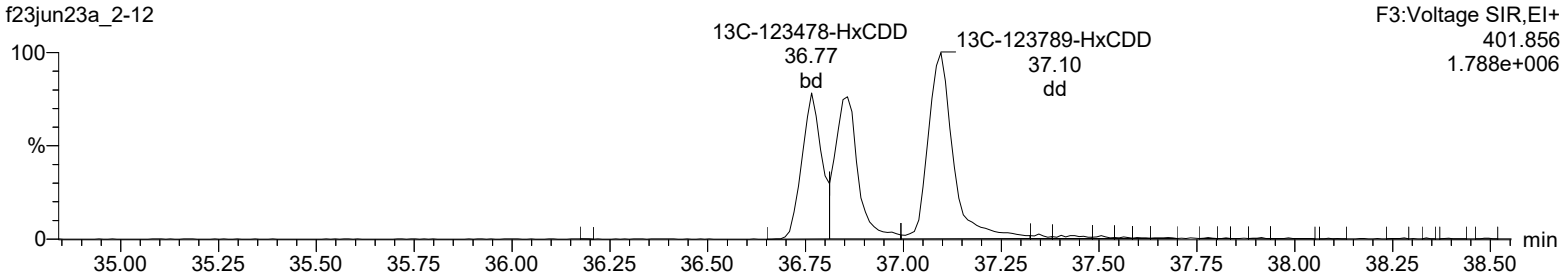

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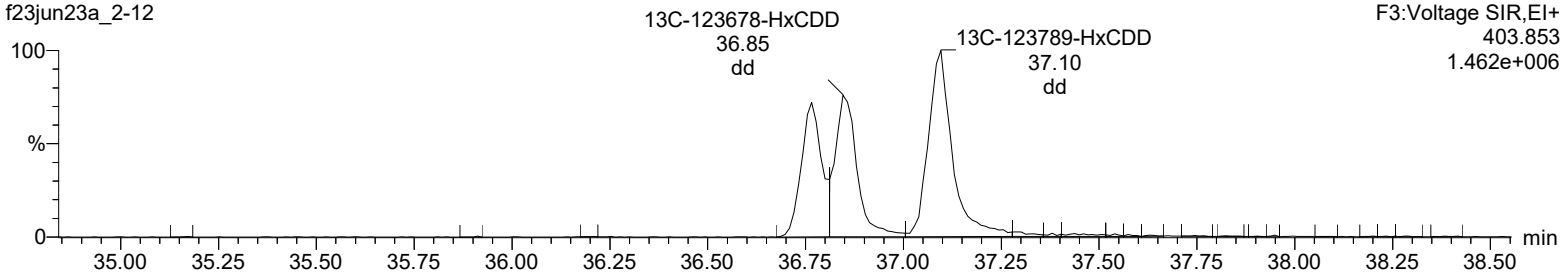

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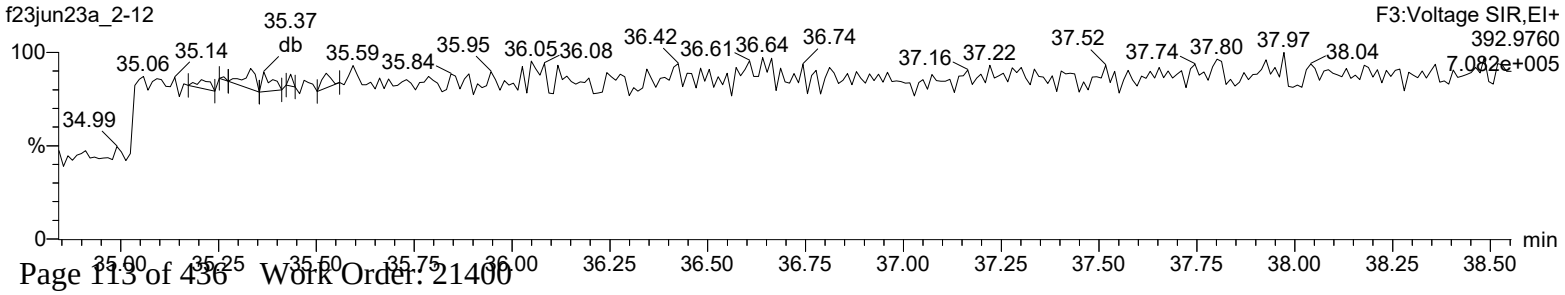


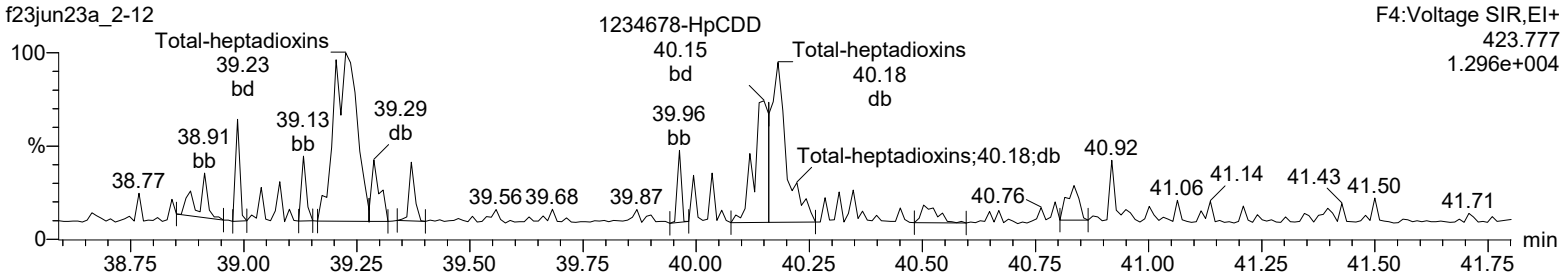
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

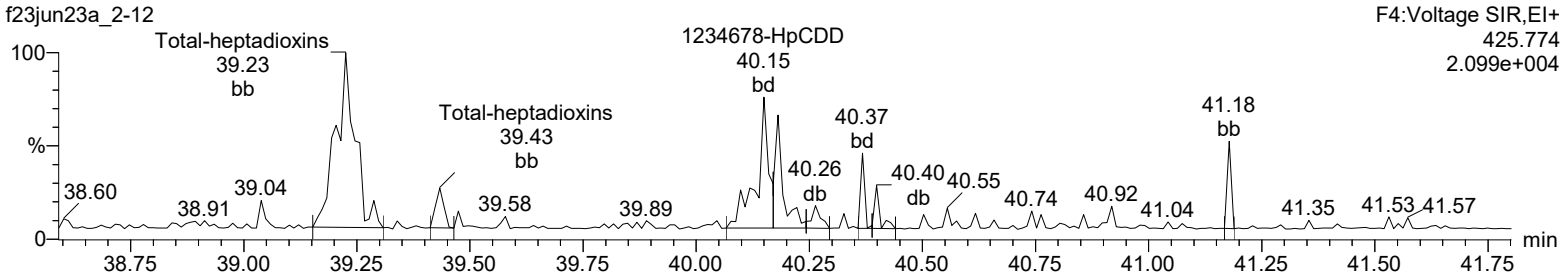
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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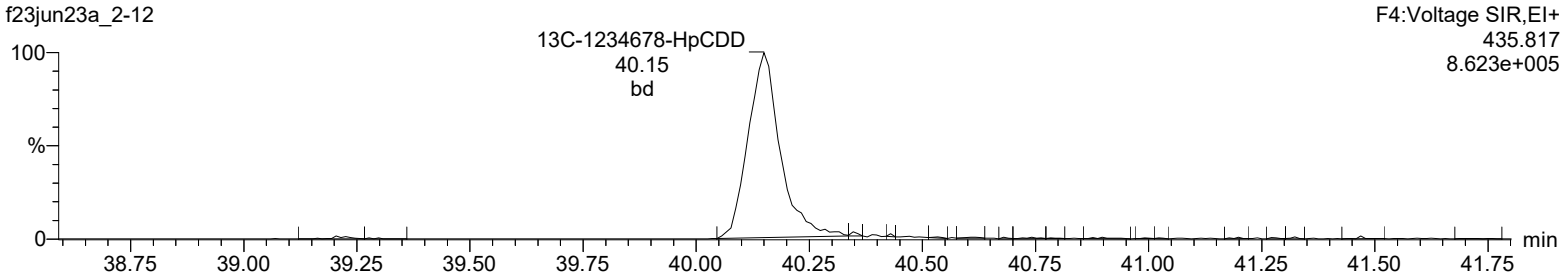

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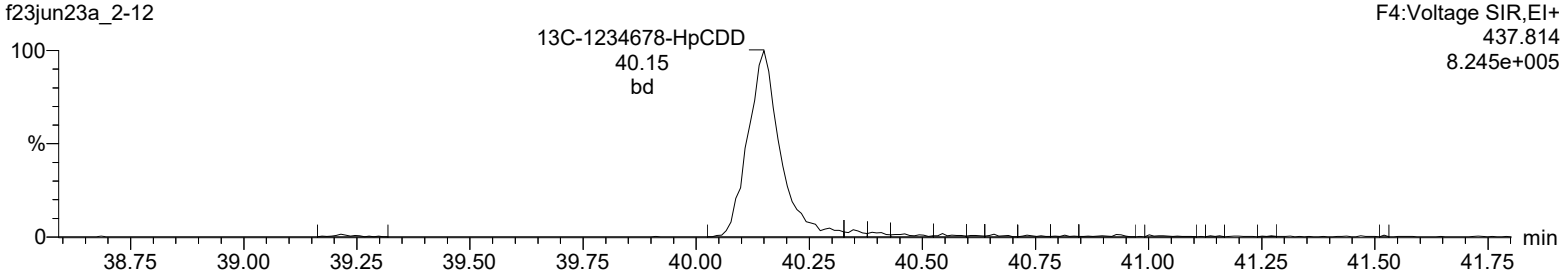
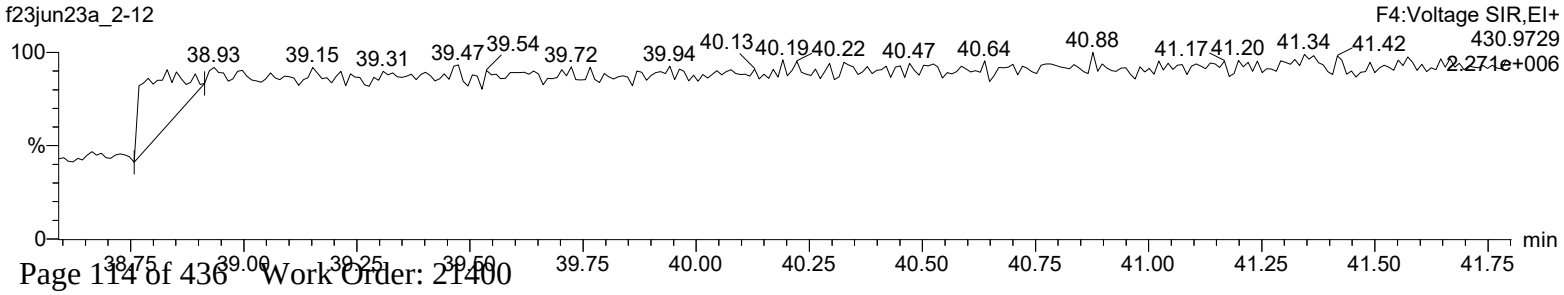


Lock Mass F4



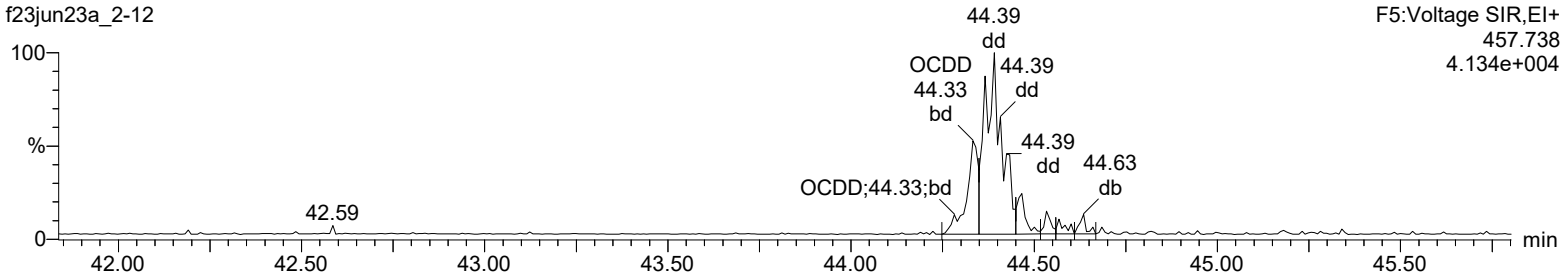
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

OCDD



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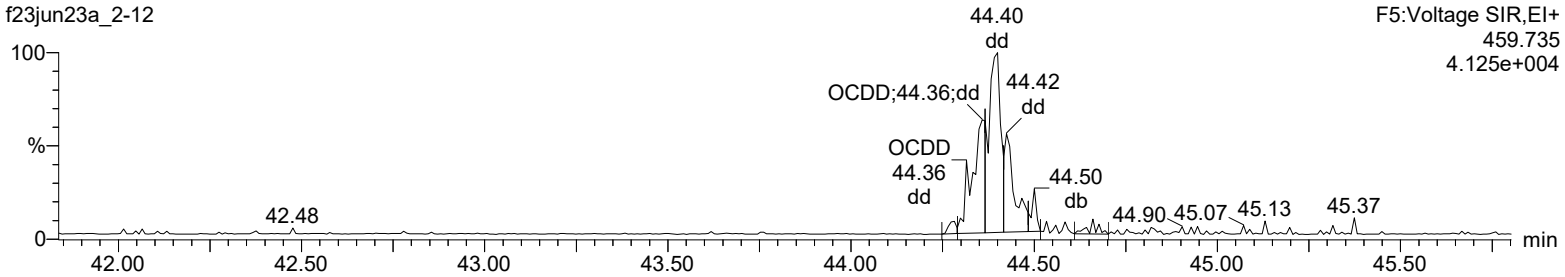
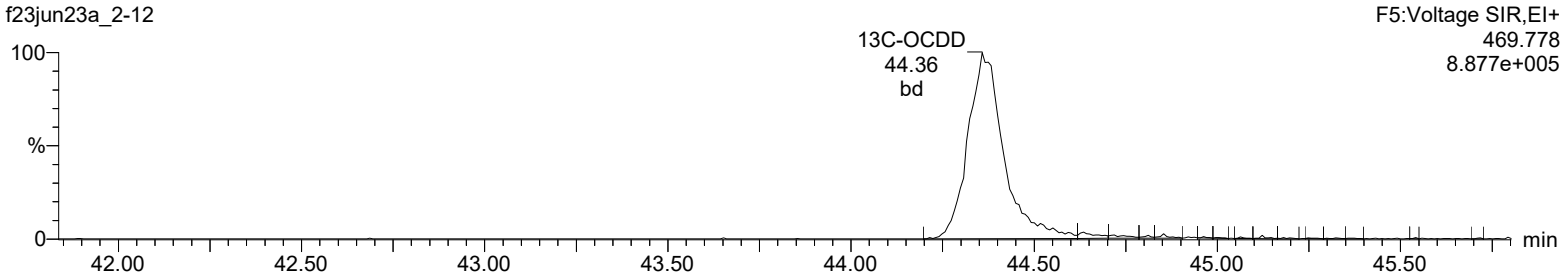


13C-OCDD



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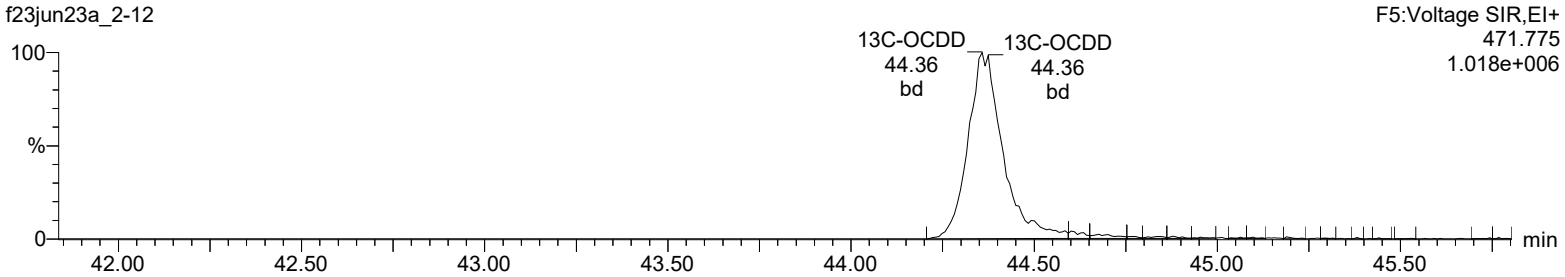
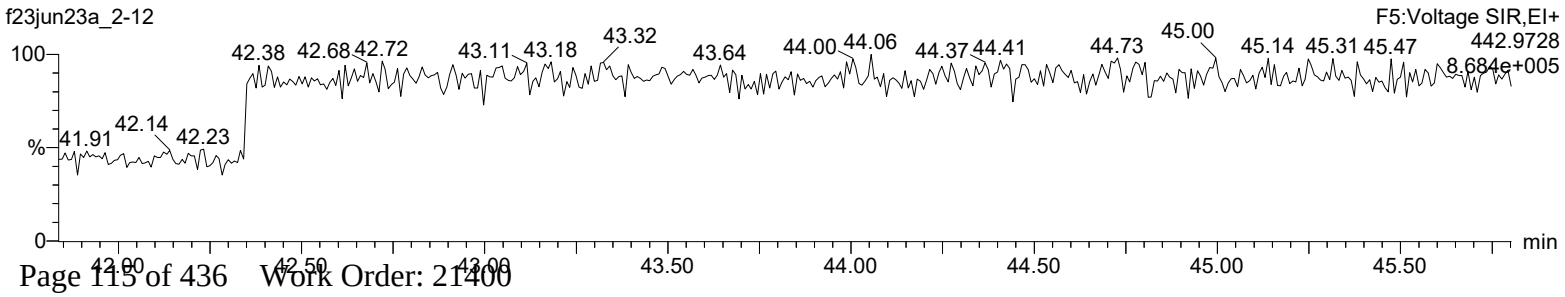


Lock Mass F5



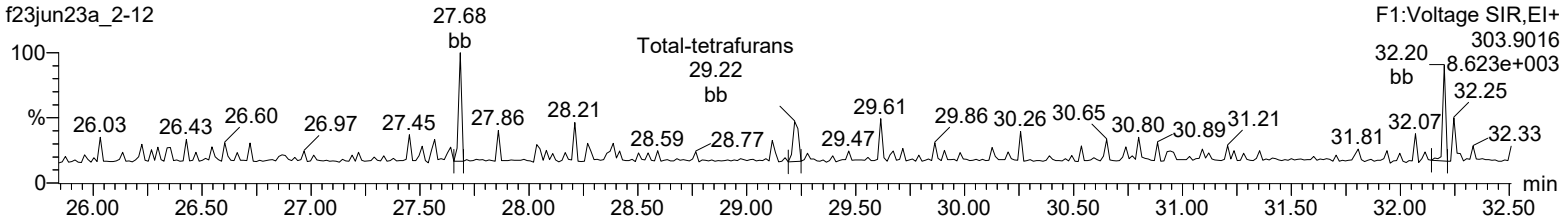
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

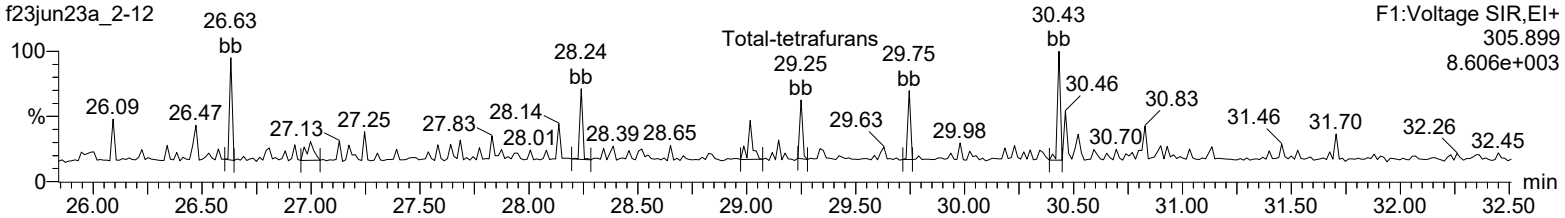
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

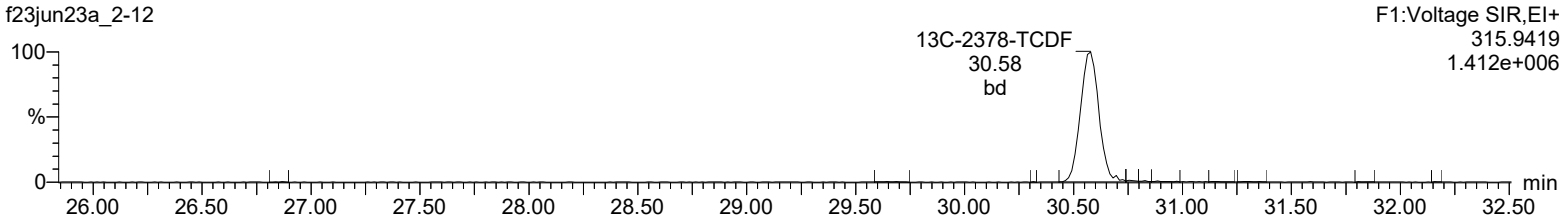
Total-tetrafurans



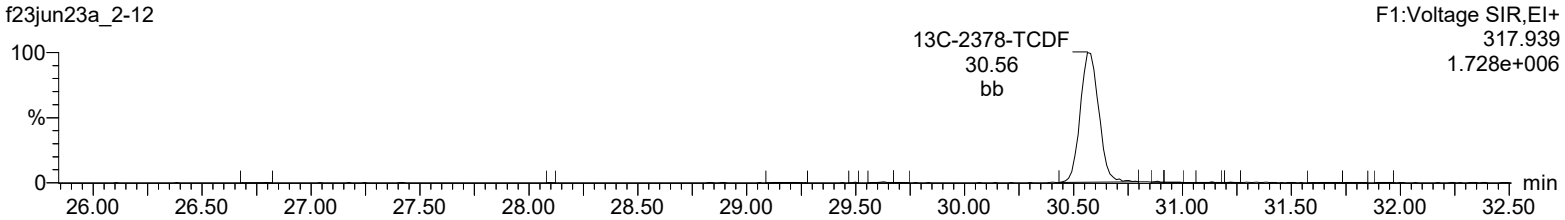
Total-tetrafurans



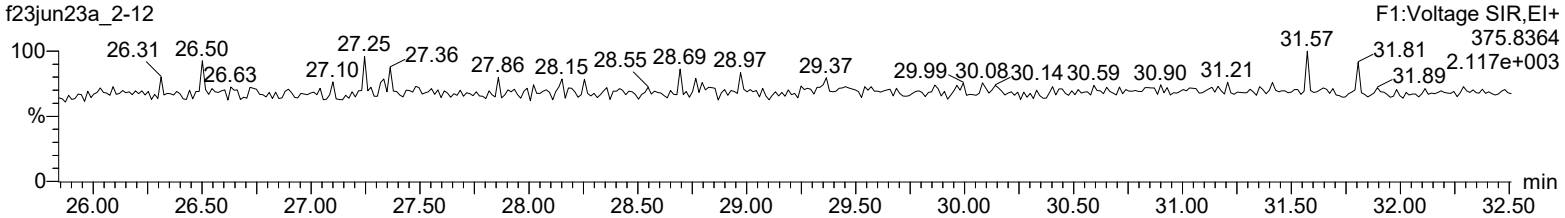
13C-2378-TCDF



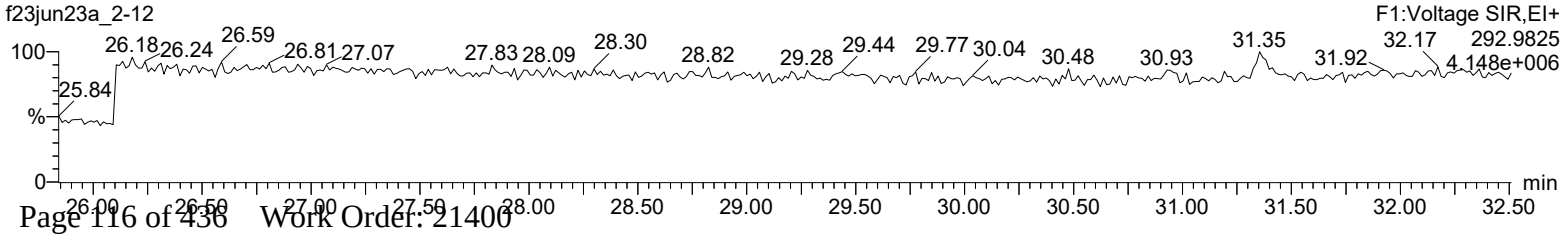
13C-2378-TCDF



HxDPE



Lock Mass F1



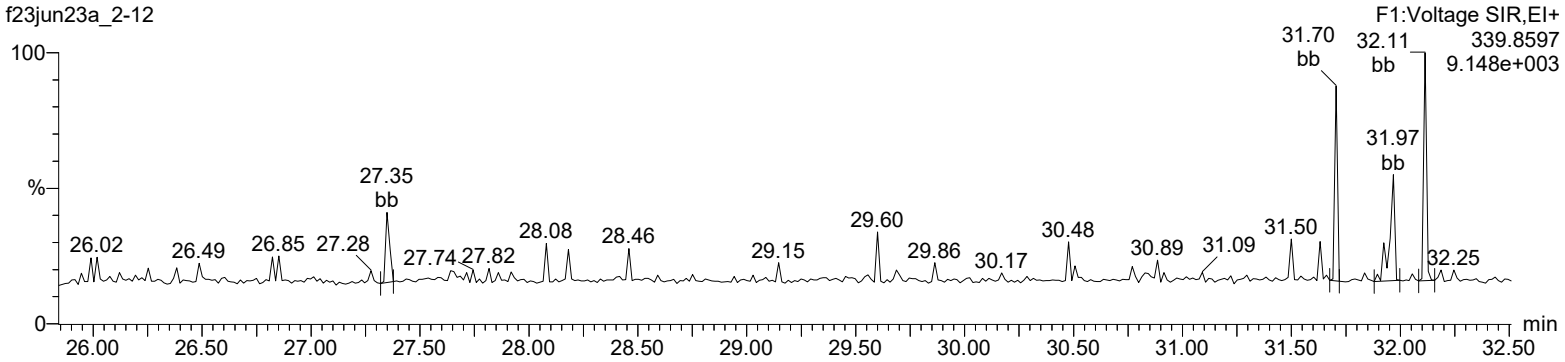
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

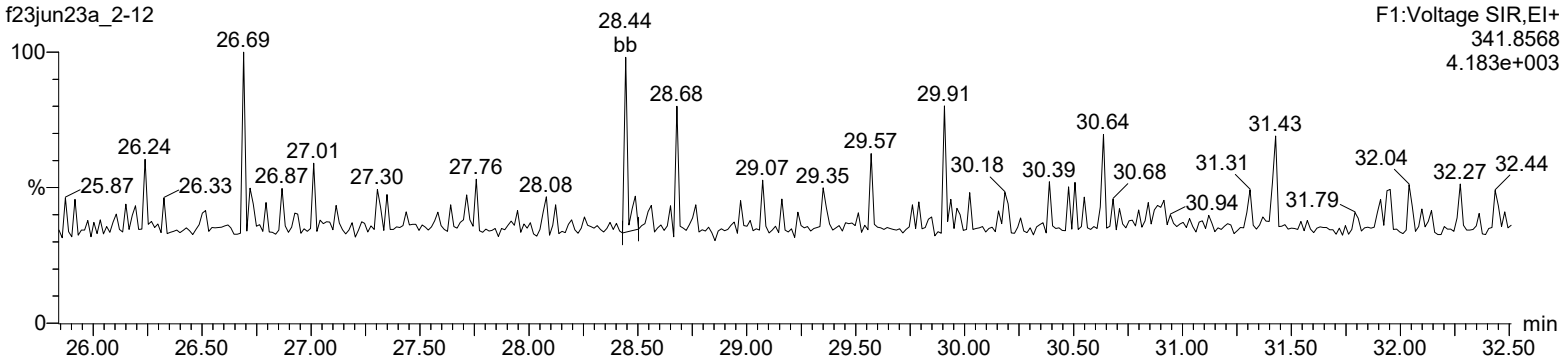
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

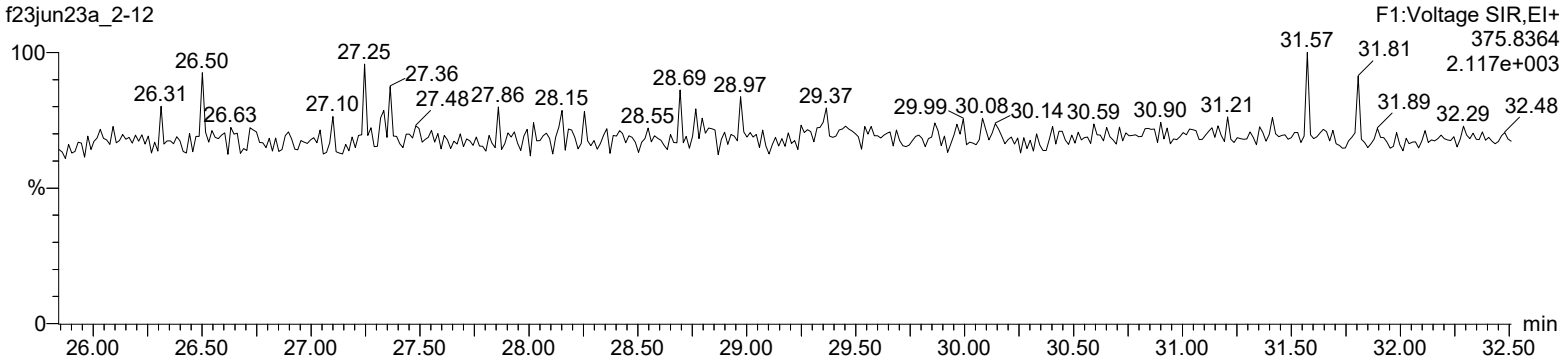
Total-pentafurans (F1)



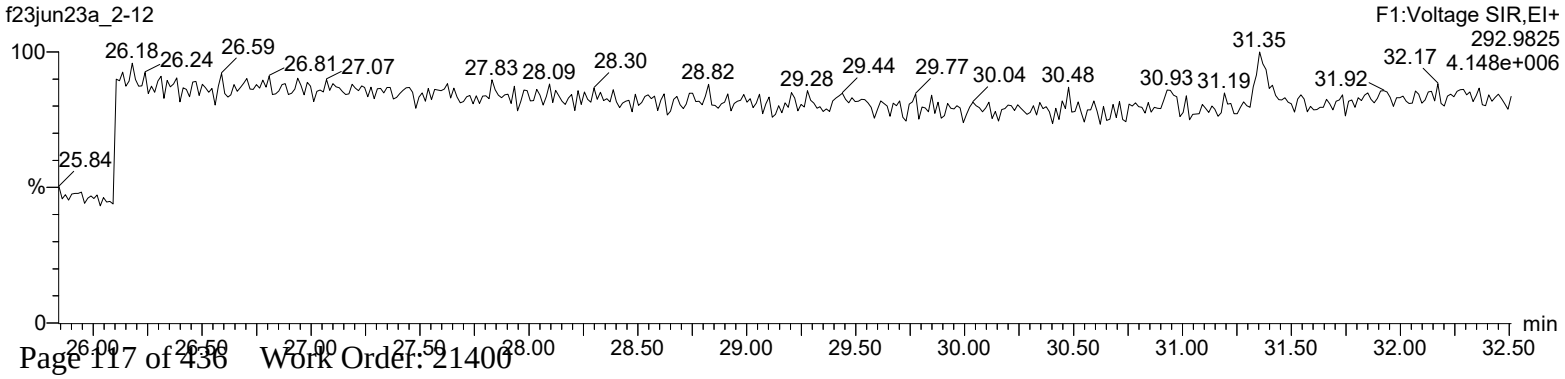
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
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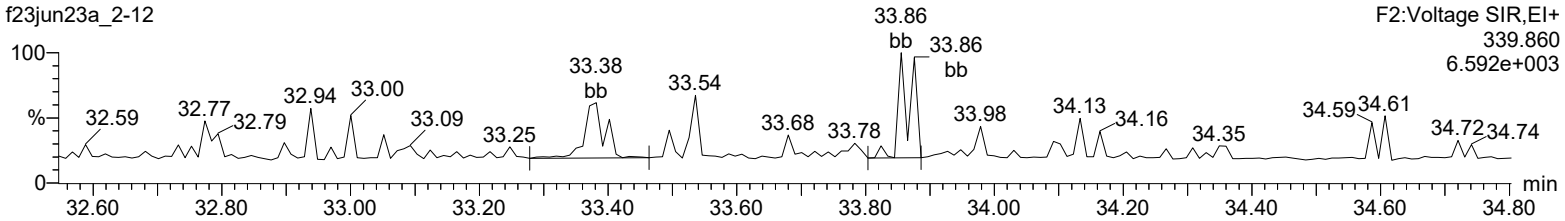
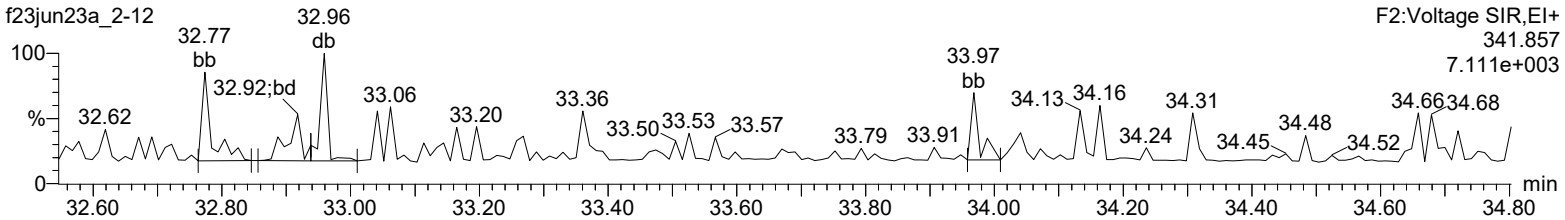
Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

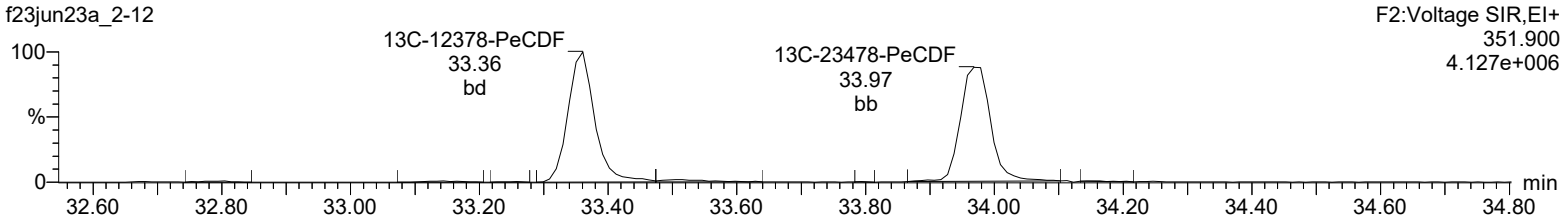
Total-pentafurans



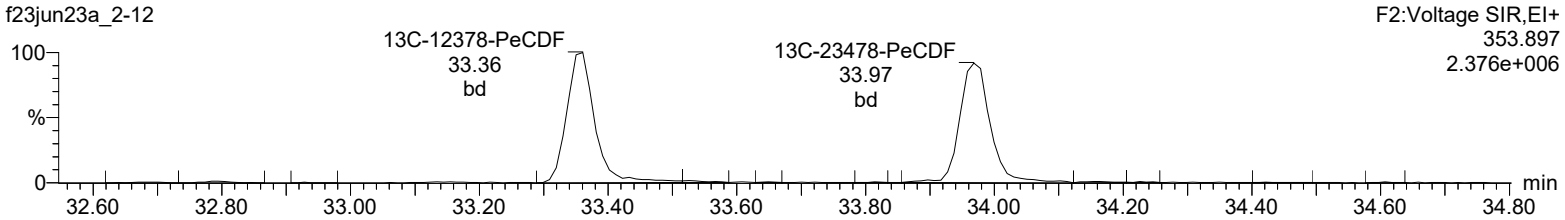
Total-pentafurans



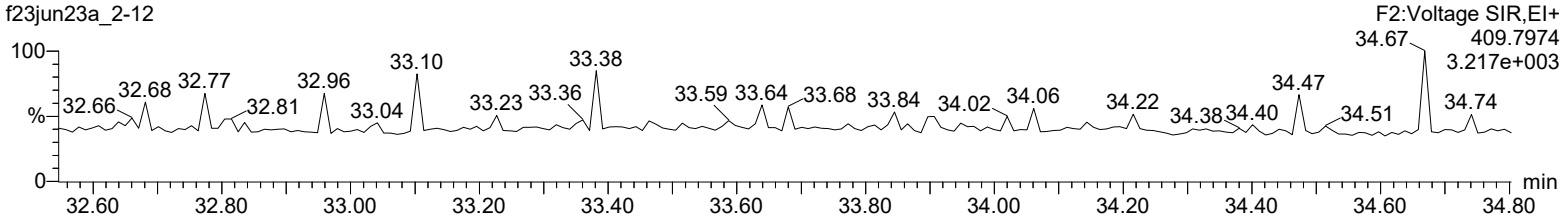
13C-12378-PeCDF



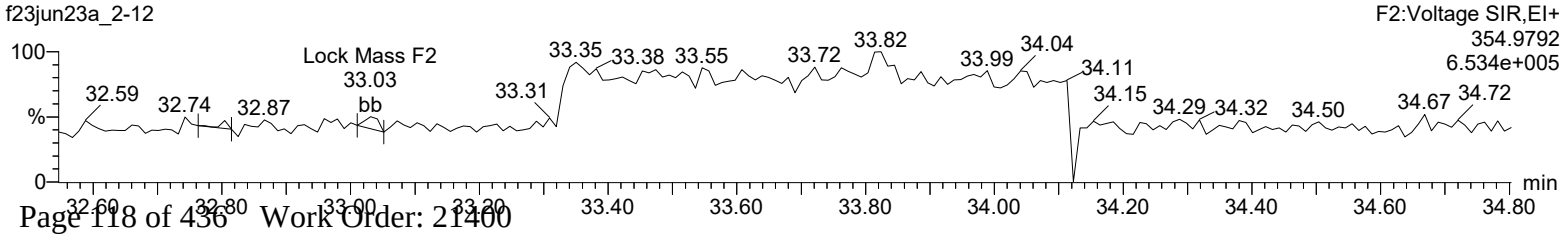
13C-12378-PeCDF



HpDPE



Lock Mass F2



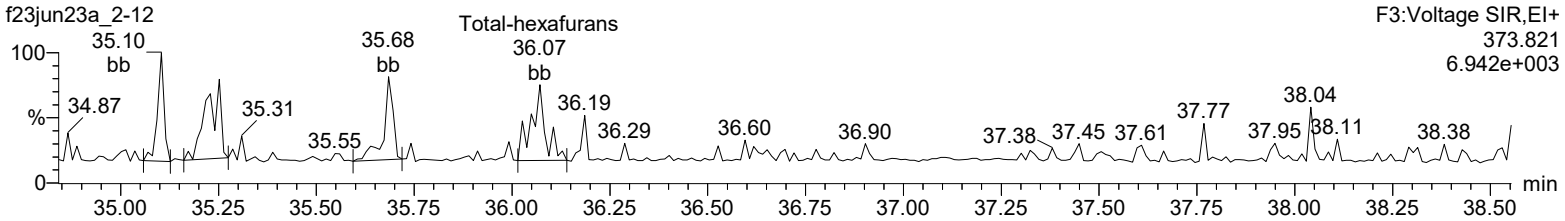
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

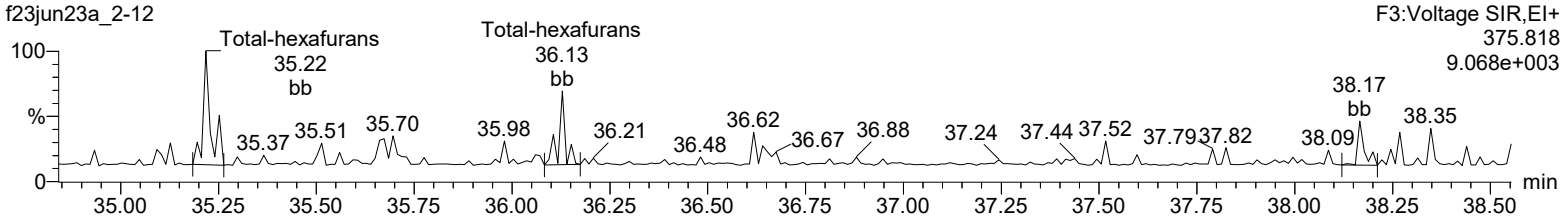
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

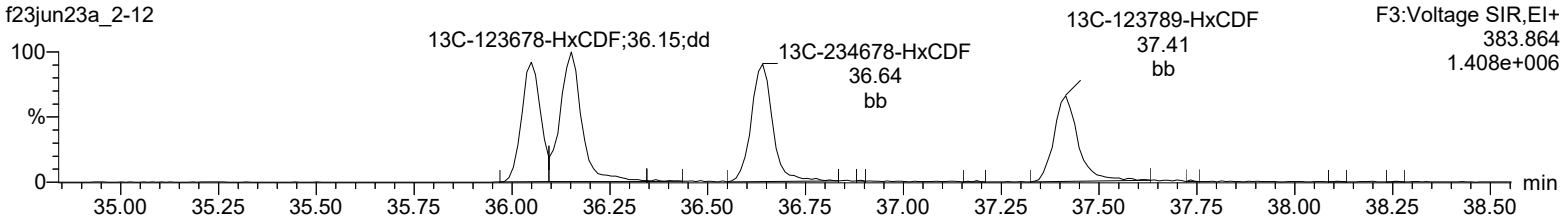
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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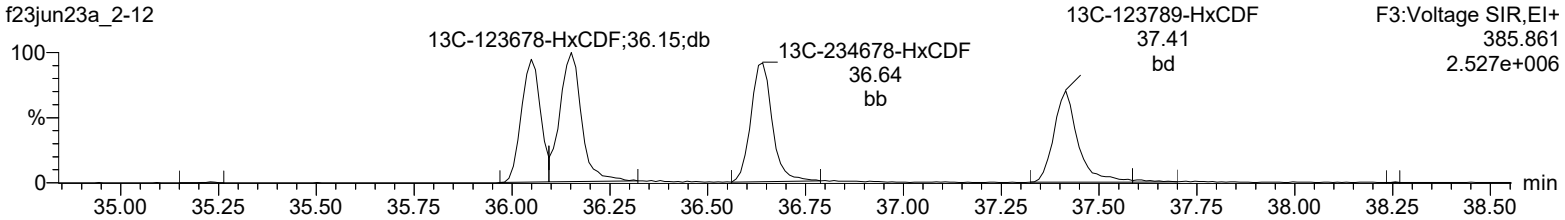
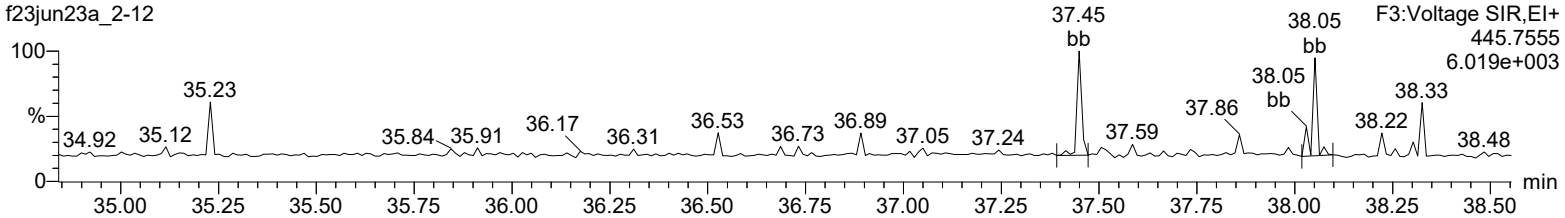
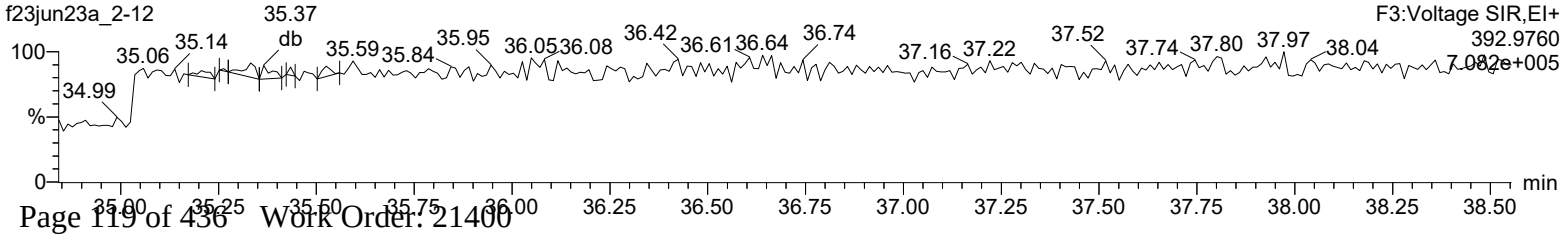


OcDPE



Lock Mass F3



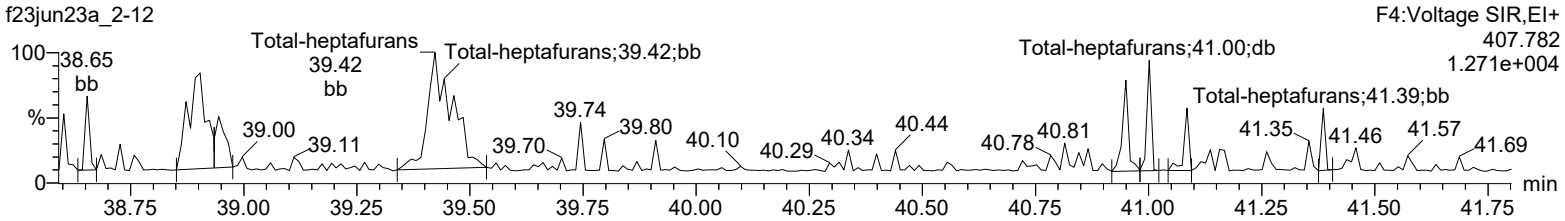
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

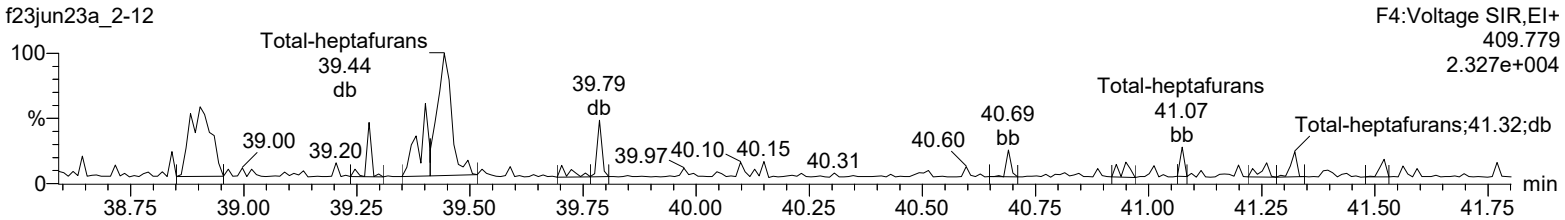
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

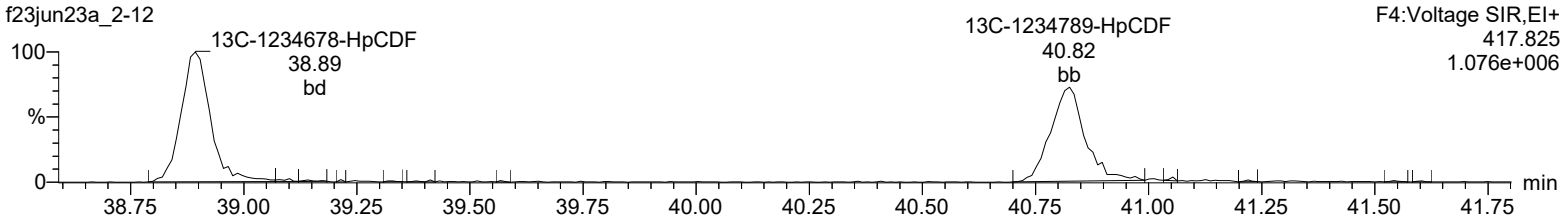
Total-heptafurans



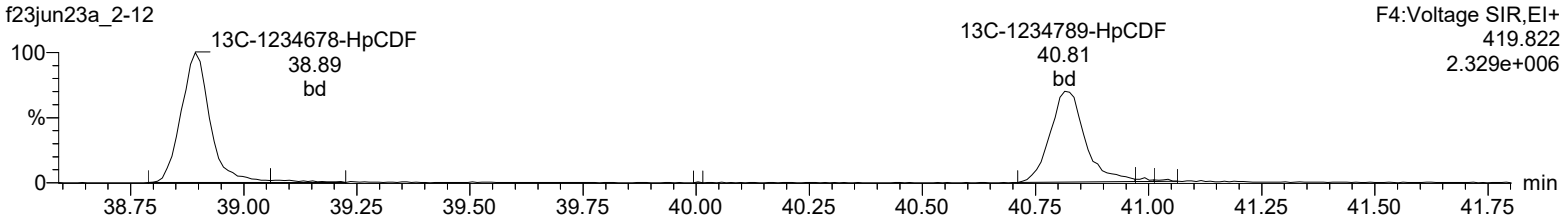
Total-heptafurans



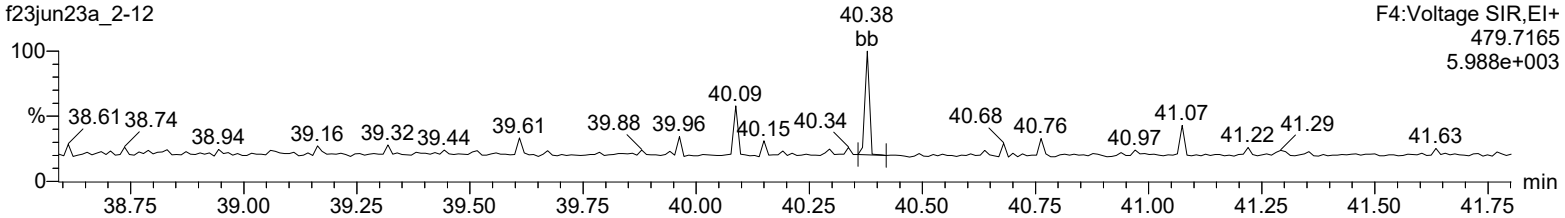
13C-1234678-HpCDF



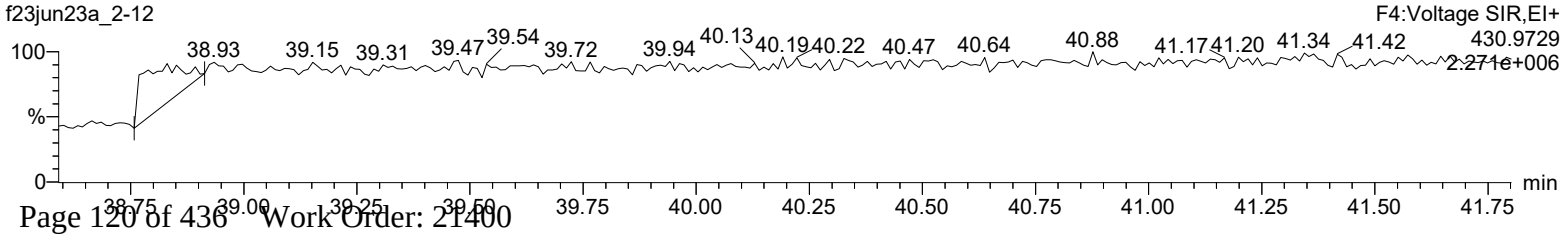
13C-1234678-HpCDF



NoDPE



Lock Mass F4



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
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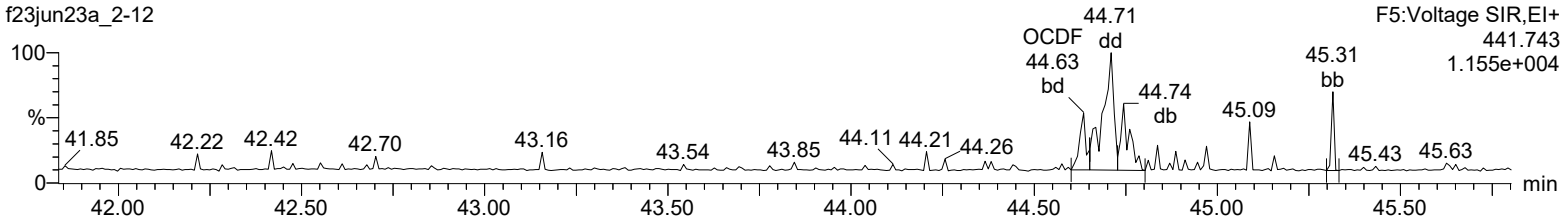
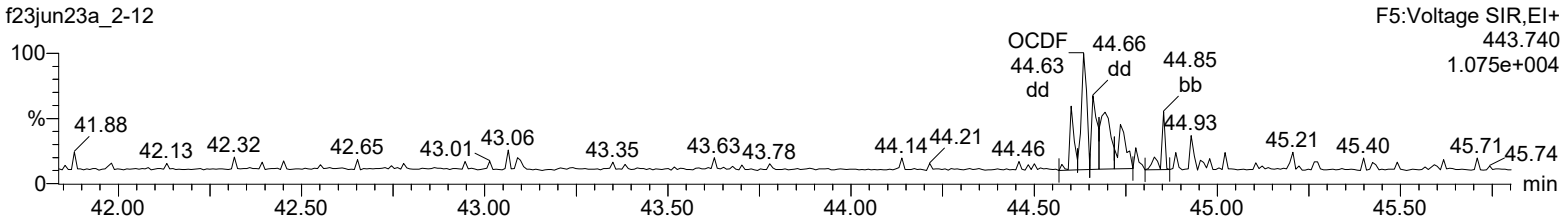
Name: f23jun23a_2-12, Date: 24-Jun-2023, Time: 06:14:18, ID: 21400004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

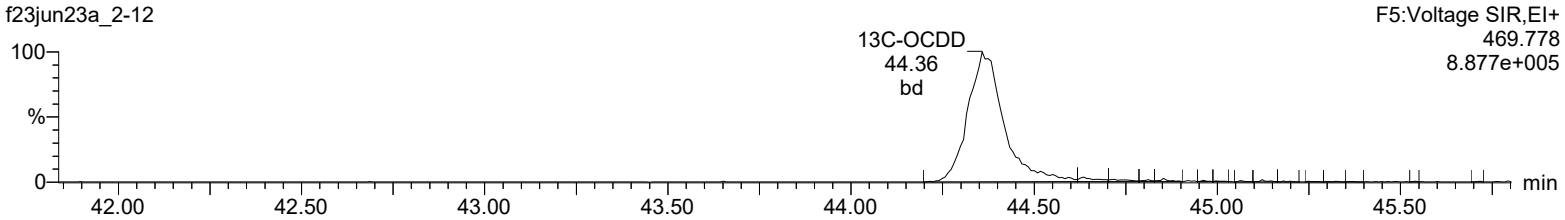
OCDF



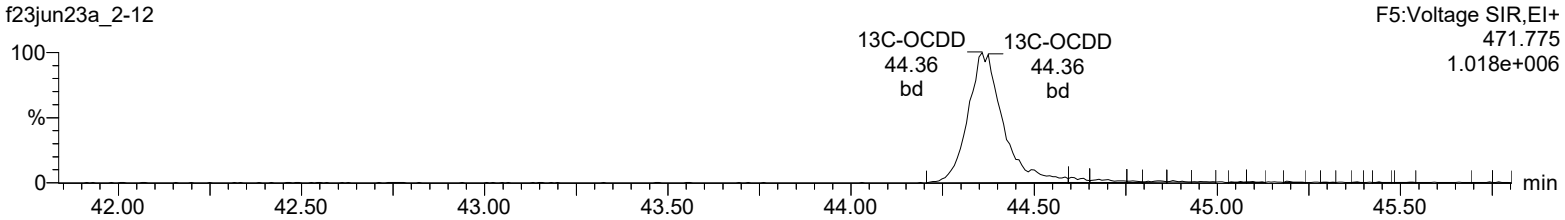
OCDF



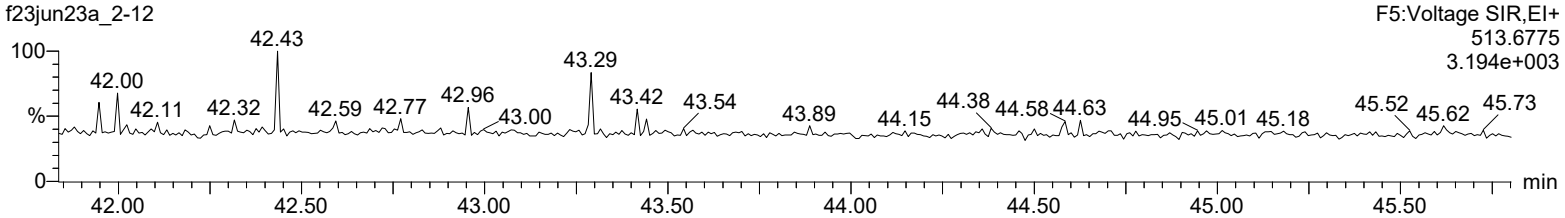
13C-OCDD



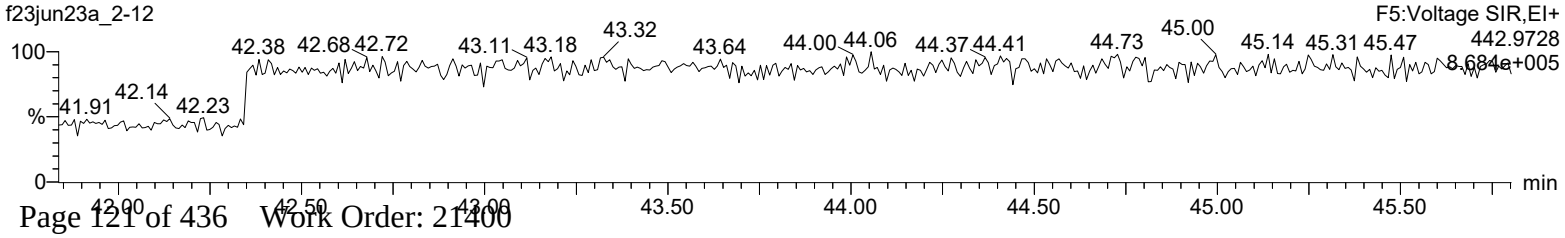
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400005**	**Date Collected:**	**03/09/2023 17:50**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR71-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 07:03**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-13**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1004.3 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.74	pg/L	1.74	4.98
40321-76-4	1,2,3,7,8-PeCDD	U	1.94	pg/L	1.94	24.9
39227-28-6	1,2,3,4,7,8-HxCDD	U	4.28	pg/L	4.28	49.8
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.98	pg/L	3.98	49.8
19408-74-3	1,2,3,7,8,9-HxCDD	U	4.12	pg/L	4.12	49.8
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	30.3	pg/L	11.4	49.8
3268-87-9	1,2,3,4,6,7,8,9-OCDD		201	pg/L	20.3	99.6
51207-31-9	2,3,7,8-TCDF	U	1.75	pg/L	1.75	9.96
57117-41-6	1,2,3,7,8-PeCDF	U	1.99	pg/L	1.99	49.8
57117-31-4	2,3,4,7,8-PeCDF	U	1.82	pg/L	1.82	49.8
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.83	pg/L	1.83	49.8
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.74	pg/L	1.74	49.8
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.82	pg/L	1.82	49.8
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.85	pg/L	2.85	49.8
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	14.1	pg/L	6.69	49.8
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	9.46	pg/L	9.46	49.8
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	46.5	pg/L	11.8	99.6
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	1.74	pg/L	1.74	9.96
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.94	pg/L	1.94	49.8
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.98	pg/L	3.98	49.8
TCDF	Total Tetrachlorodibenzofuran	U	1.75	pg/L	1.75	9.96
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	46.6	pg/L	11.4	49.8
30402-15-4	Total Pentachlorodibenzofuran	U	1.82	pg/L	1.82	49.8
55684-94-1	Total Hexachlorodibenzofuran	JK	2.45	pg/L	1.74	49.8
38998-75-3	Total Heptachlorodibenzofuran	JK	31.8	pg/L	6.69	49.8
TEQ	TEQ WHO2005 ND=0		0.518	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.83	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1360	1990	pg/L	68.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		1610	1990	pg/L	80.8	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1320	1990	pg/L	66.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1360	1990	pg/L	68.5	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1380	1990	pg/L	69.1	(23%-140%)
13C-OCDD		2380	3980	pg/L	59.7	(17%-157%)
13C-2,3,7,8-TCDF		1380	1990	pg/L	69.4	(24%-169%)
13C-1,2,3,7,8-PeCDF		1440	1990	pg/L	72.5	(24%-185%)
13C-2,3,4,7,8-PeCDF		1560	1990	pg/L	78.1	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1340	1990	pg/L	67.2	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1270	1990	pg/L	64.0	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1420	1990	pg/L	71.2	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1300	1990	pg/L	65.4	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400005**	**Date Collected:**	**03/09/2023 17:50**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR71-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 07:03**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_2-13**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1004.3 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1250	1990	pg/L	62.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1390	1990	pg/L	69.6	(26%-138%)
37Cl-2,3,7,8-TCDD		159	199	pg/L	79.7	(35%-197%)

Comments:

J **Value is estimated**

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-12.qld

Last Altered: Wednesday, June 28, 2023 10:49:08 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:08:00 PM Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.0876		774			534			
2	12378-PeCDD							NO		0.0974		854			696			
3	123478-HxCDD							NO		0.215		1445			1059			
4	123678-HxCDD							NO		0.200		1445			1059			
5	123789-HxCDD							NO		0.207		1445			1059			
6	1234678-HpCDD	1.58e3	1.36e3	2.94e3	40.18	1.001	1.16	NO	1.521	0.571	1.70e4	2472	6.9	2.62e4	2804	9.3	MM	MM
7	OCDD	5.70e3	6.67e3	1.24e4	44.37	1.000	0.86	NO	10.093	1.02	5.52e4	1988	27.8	7.10e4	2623	27.1	MM	MM
8	2378-TCDF							NO		0.0879		764			854			
9	12378-PeCDF							NO		0.100		1448			2108			
10	23478-PeCDF							NO		0.0914		1448			2108			
11	123478-HxCDF							NO		0.0917		922			1295			
12	123678-HxCDF							NO		0.0875		922			1295			
13	234678-HxCDF	8.30e1	9.45e1	1.77e2	36.63	1.000	0.88	YES	0.046	0.0916	3.18e3	922	3.4	3.62e3	1295	2.8	bb	bb
14	123789-HxCDF							NO		0.143		922			1295			
15	1234678-HpCDF	1.51e3	1.17e3	2.68e3	38.88	1.000	1.28	YES	0.708	0.336	2.50e4	3965	6.3	1.57e4	2775	5.6	bd	MM
16	1234789-HpCDF							NO		0.475		3965			2775			
17	OCDF	2.03e3	2.50e3	4.53e3	44.67	1.007	0.81	NO	2.334	0.593	2.85e4	2272	12.6	3.44e4	1991	17.3	MM	MM
18	13C-2378-TCDD	9.63e4	1.20e5	2.17e5	31.28	1.017	0.80	NO	68.436	0.300	1.51e6	2874	524.4	1.75e6	1914	915.6	bd	bd
19	13C-12378-PeCDD	1.13e5	6.99e4	1.83e5	34.15	1.110	1.61	NO	80.768	0.881	2.11e6	3277	643.6	1.32e6	6779	195.3	bd	bd
20	13C-123478-HxCDD	8.96e4	6.95e4	1.59e5	36.77	0.991	1.29	NO	66.051	0.682	1.53e6	4978	307.6	1.16e6	3726	312.1	bd	bd
21	13C-123678-HxCDD	1.11e5	8.87e4	2.00e5	36.85	0.994	1.25	NO	68.507	0.563	1.63e6	4978	328.3	1.24e6	3726	332.4	dd	dd
22	13C-1234678-HpCDD	8.23e4	7.49e4	1.57e5	40.14	1.082	1.10	NO	69.099	0.808	9.85e5	5646	174.4	8.50e5	4086	208.0	bd	bd
23	13C-OCDD	1.02e5	1.19e5	2.21e5	44.37	1.196	0.86	NO	119.446	0.969	9.47e5	4314	219.6	1.11e6	5198	214.1	bd	bd
24	13C-2378-TCDF	1.50e5	1.85e5	3.35e5	30.56	0.993	0.81	NO	69.396	0.241	1.53e6	2411	633.3	1.84e6	3444	535.6	bd	bd
25	13C-12378-PeCDF	2.17e5	1.30e5	3.47e5	33.35	1.084	1.67	NO	72.541	0.979	4.35e6	13468	323.3	2.61e6	10142	257.5	bd	bd
26	13C-23478-PeCDF	2.20e5	1.32e5	3.52e5	33.97	1.104	1.67	NO	78.129	1.04	4.37e6	13468	324.2	2.56e6	10142	252.9	bb	bb
27	13C-123478-HxCDF	8.55e4	1.61e5	2.47e5	36.05	0.972	0.53	NO	67.226	0.906	1.48e6	7371	200.3	2.83e6	10230	276.5	bd	bd
28	13C-123678-HxCDF	1.03e5	1.87e5	2.90e5	36.15	0.975	0.55	NO	63.953	0.732	1.63e6	7371	221.6	2.99e6	10230	292.4	dd	dd
29	13C-234678-HxCDF	9.53e4	1.75e5	2.71e5	36.64	0.988	0.54	NO	71.205	0.874	1.50e6	7371	203.3	2.78e6	10230	272.2	bd	bd
30	13C-123789-HxCDF	7.86e4	1.43e5	2.21e5	37.42	1.009	0.55	NO	65.398	0.983	1.06e6	7371	143.3	1.90e6	10230	185.5	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-12.qld

Last Altered: Wednesday, June 28, 2023 10:49:08 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:08:00 PM Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	8.93e4	1.84e5	2.74e5	38.89	1.049	0.48	NO	62.656	0.770	1.18e6	7786	152.0	2.38e6	10015	237.4	bd	bb
32	13C-1234789-HpCDF	7.36e4	1.63e5	2.37e5	40.83	1.101	0.45	NO	69.575	0.987	8.09e5	7786	103.9	1.79e6	10015	178.4	bd	bb
33	13C-1234-TCDD	1.25e5	1.53e5	2.78e5	30.77	0.000	0.82	NO	100.000	0.341	1.58e6	2874	549.8	1.85e6	1914	965.1	bb	bd
34	13C-123789-HxCDD	1.60e5	1.24e5	2.84e5	37.08	0.000	1.28	NO	100.000	0.578	2.11e6	4978	424.7	1.75e6	3726	468.6	dd	dd
35	37Cl-2378-TCDD	2.49e4		2.49e4	31.31	1.018			7.970	0.0555	3.93e5	875	449.5				bb	

Reasons for Analyst Intervention

Name:f23jun23a_2-13, ID:21400005-1, Description: 52698

M	M2
6 1234678-HpCDD 40.18 - AB	6 1234678-HpCDD 40.18 - AB
7 OCDD 44.37 - AB	7 OCDD 44.37 - AB
	15 1234678-HpCDF 38.88 - AB
17 OCDF 44.67 - AB	17 OCDF 44.67 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-12.qld

Last Altered: Wednesday, June 28, 2023 10:49:08 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:08:00 PM Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	8.18e2	7.64e2	1.58e3	39.22	1.07	NO	0.820	0.571	1.64e4	2472	6.7	1.13e4	2804	4.0	bd	MM
2	1234678-HpCDD	1.58e3	1.36e3	2.94e3	40.18	1.16	NO	1.521	0.571	1.70e4	2472	6.9	2.62e4	2804	9.3	MM	MM
3	Total-heptadioxins	5.03e1	8.57e1	1.36e2	40.99	0.59	YES	0.070	0.571	4.83e3	2472	2.0	5.68e3	2804	2.0	bb	bb
4	Total-heptadioxins	6.67e1	5.62e1	1.23e2	41.17	1.19	NO	0.064	0.571	4.97e3	2472	2.0	4.74e3	2804	1.7	bb	bd

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2-12.qld

Last Altered: Wednesday, June 28, 2023 10:49:08 AM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 12:08:00 PM Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	6.83e1	5.12e1	1.20e2	35.13	1.33	NO	0.034	0.101	2.73e3	922	3.0	1.50e3	1295	1.2	bb	bb
2	Total-hexafurans	2.22e2	2.15e2	4.37e2	35.25	1.03	YES	0.123	0.101	7.13e3	922	7.7	6.61e3	1295	5.1	bb	bb
3	Total-hexafurans	5.28e1	7.81e1	1.31e2	35.64	0.68	YES	0.037	0.101	1.63e3	922	1.8	3.25e3	1295	2.5	bb	bb
4	234678-HxCDF	8.30e1	9.45e1	1.77e2	36.63	0.88	YES	0.046	0.0916	3.18e3	922	3.4	3.62e3	1295	2.8	bb	bb

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDF	1.51e3	1.17e3	2.68e3	38.88	1.28	YES	0.708	0.336	2.50e4	3965	6.3	1.57e4	2775	5.6	bd	MM
2	Total-heptafurans	1.74e3	1.37e3	3.11e3	39.42	1.27	YES	0.888	0.400	3.87e4	3965	9.7	2.35e4	2775	8.5	MM	bd
3	Total-heptafurans	1.27e2	6.87e1	1.96e2	39.53	1.85	YES	0.056	0.400	5.66e3	3965	1.4	5.28e3	2775	1.9	db	dd
4	Total-heptafurans	5.01e1	6.84e1	1.18e2	40.10	0.73	YES	0.034	0.400	4.24e3	3965	1.1	6.43e3	2775	2.3	bb	bb

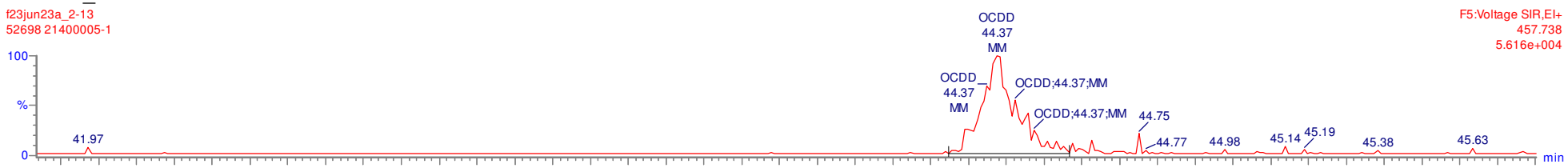
Reasons for Analyst Intervention

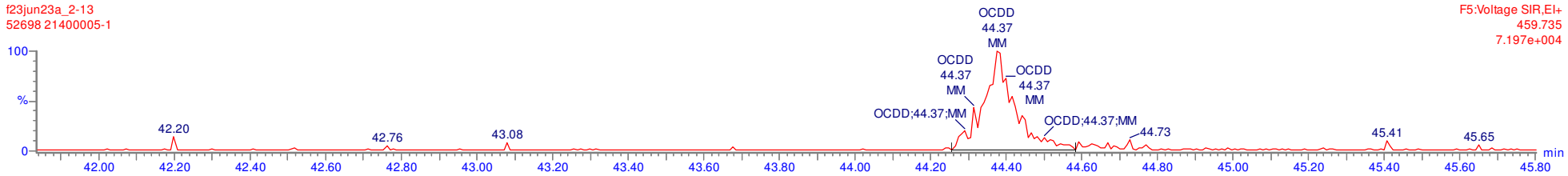
Name:f23jun23a_2-13, ID:21400005-1, Description: 52698

M	M2
	1 Total-heptadioxins 39.22 - AB
2 1234678-HpCDD 40.18 - AB	2 1234678-HpCDD 40.18 - AB
	1 1234678-HpCDF 38.88 - AB
2 Total-heptafurans 39.42 - AB	

Reason Codes assigned by MW1 on 28-JUN-23

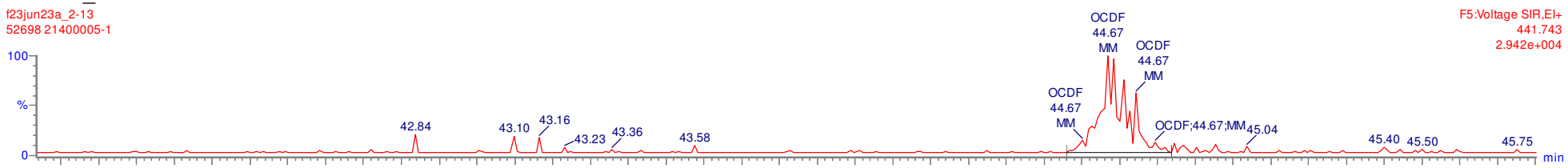
MANUAL INTEGRATION
METHOD 1613
HRP722_2

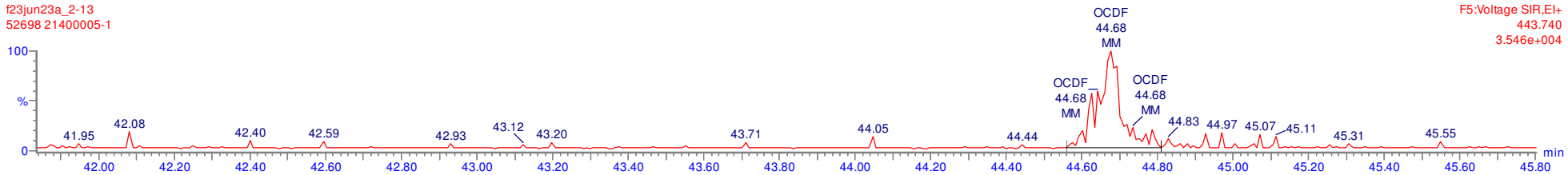




06/28/2023 06/28/2023

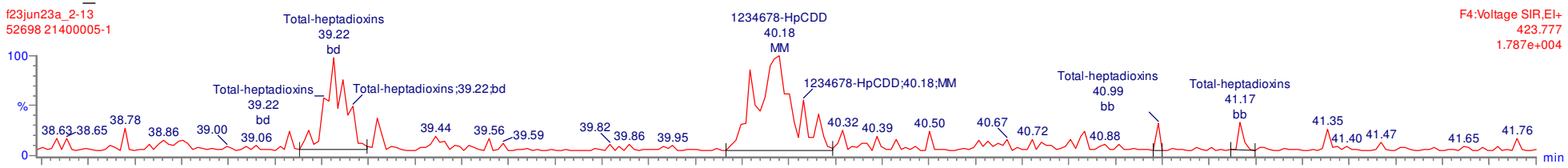
MANUAL INTEGRATION
METHOD 1613
HRP722_2

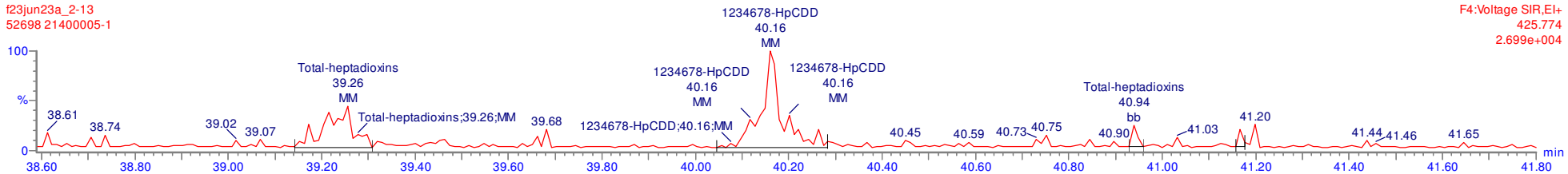




06/28/2023 06/28/2023

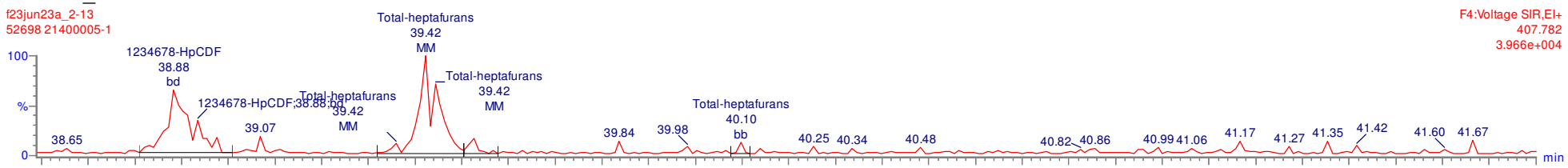
MANUAL INTEGRATION
METHOD 1613
HRP722_2

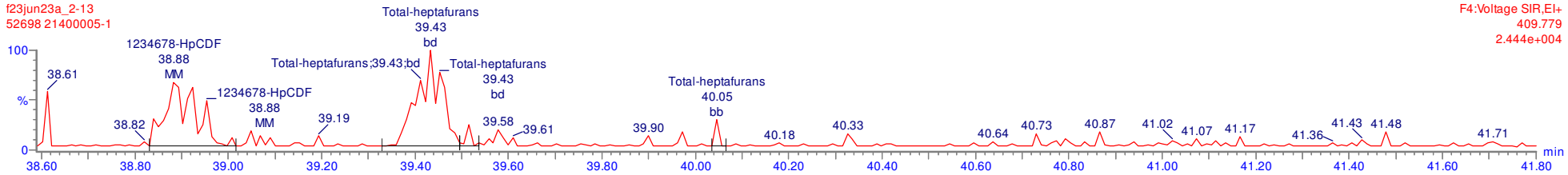




06/28/2023 06/28/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/28/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

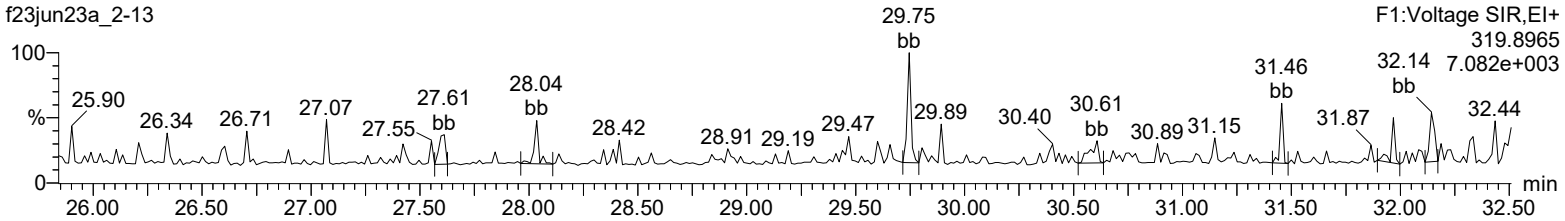
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

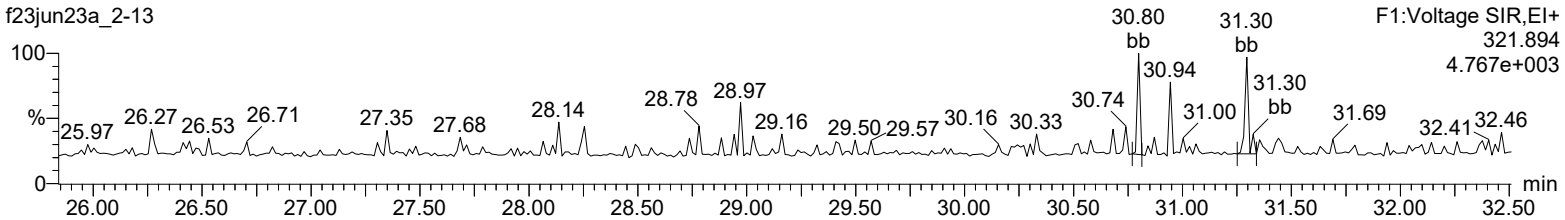
AMA 06/28/2023

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

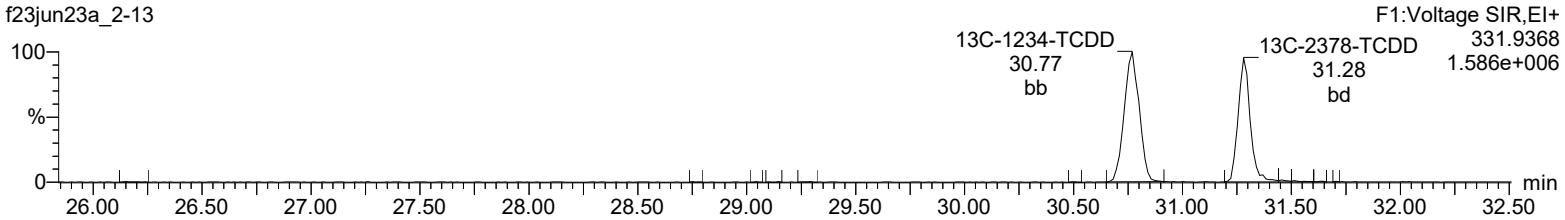
Total-tetradioxins



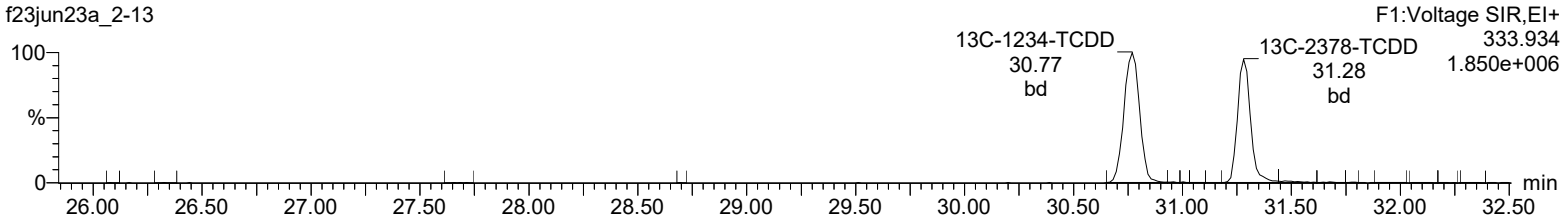
Total-tetradioxins



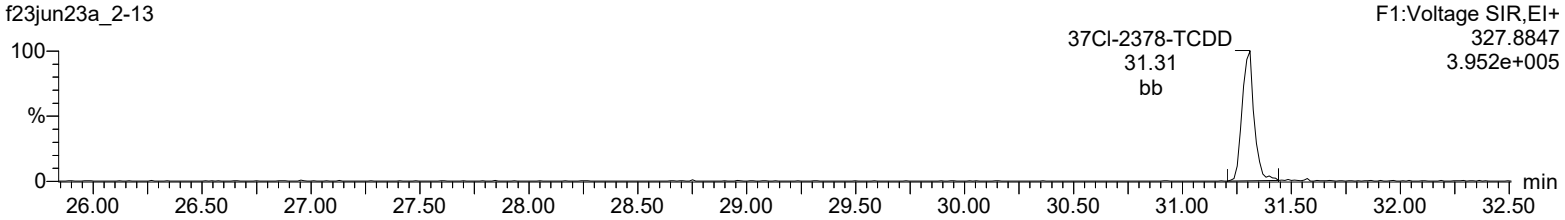
13C-2378-TCDD



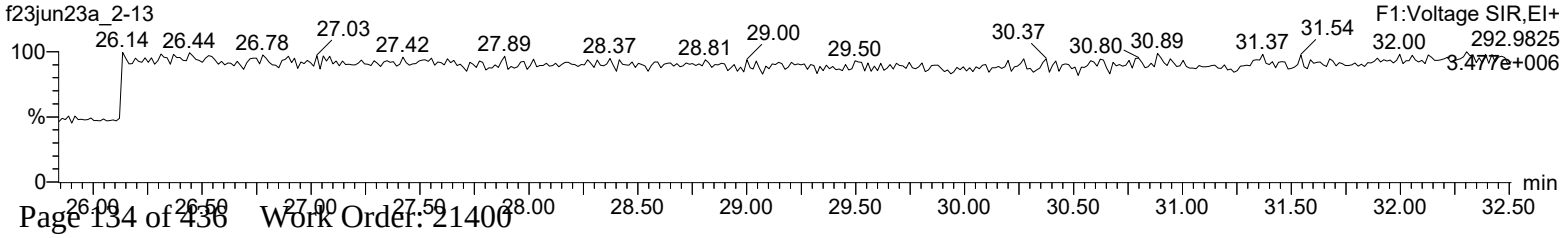
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



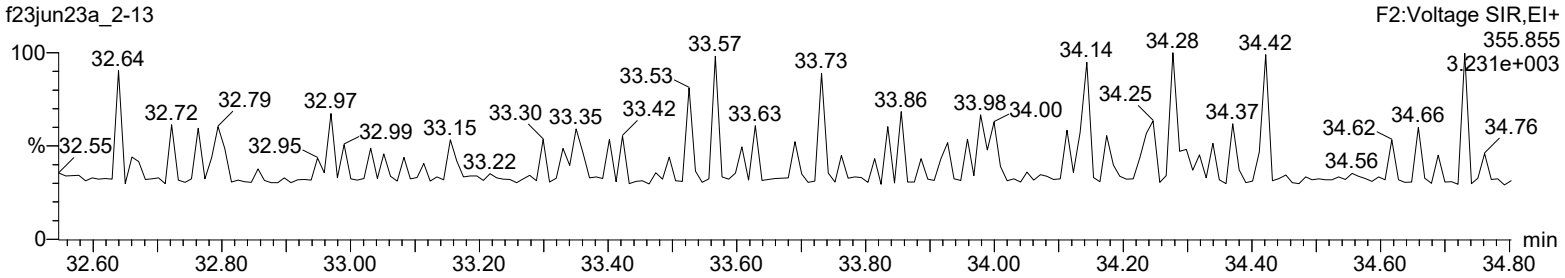
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

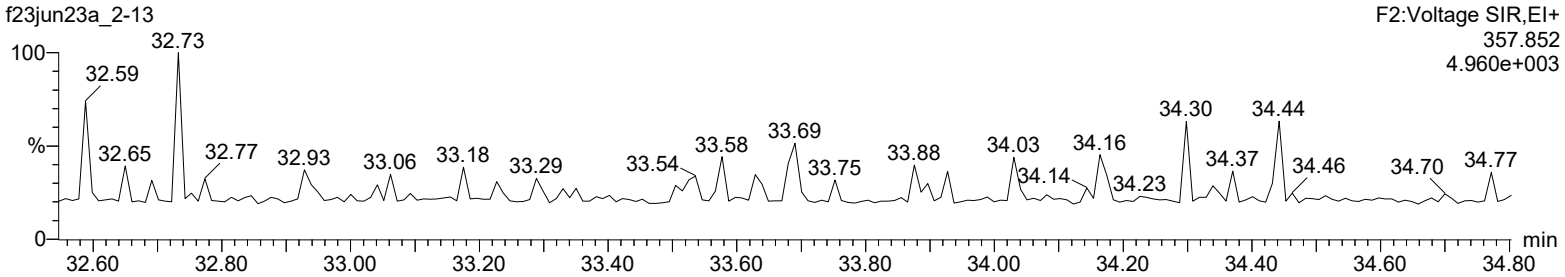
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

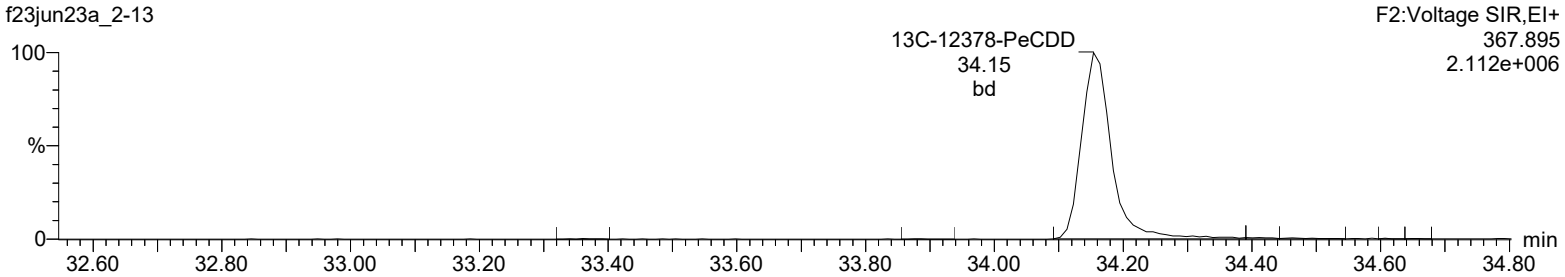
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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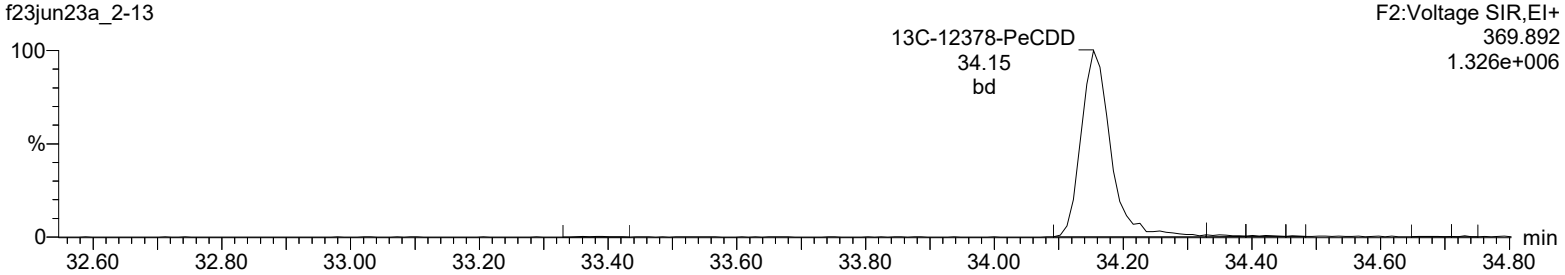
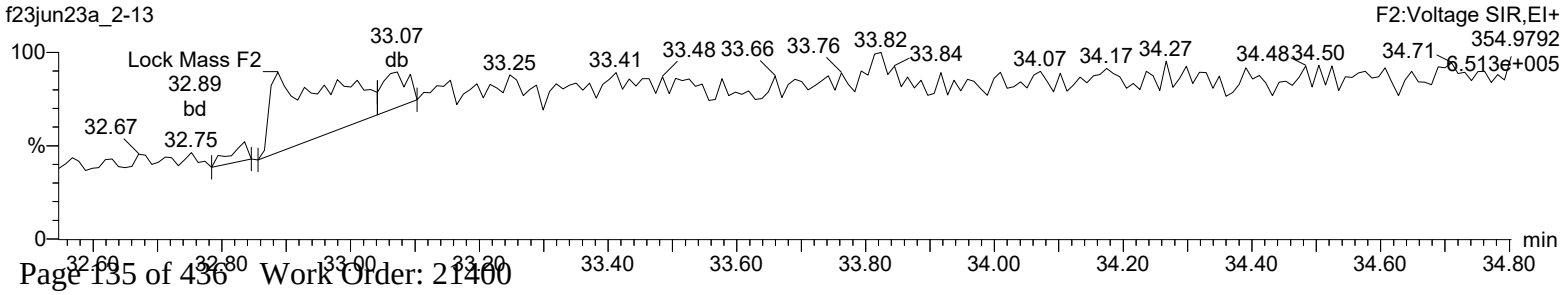


Lock Mass F2



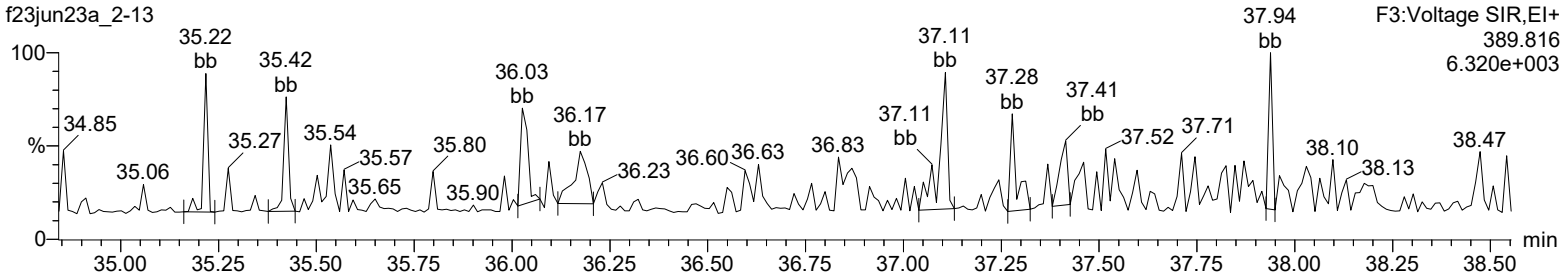
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

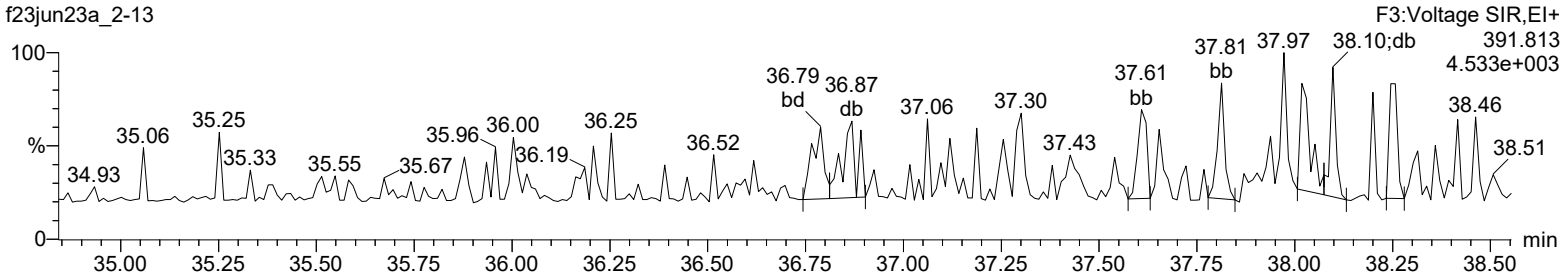
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

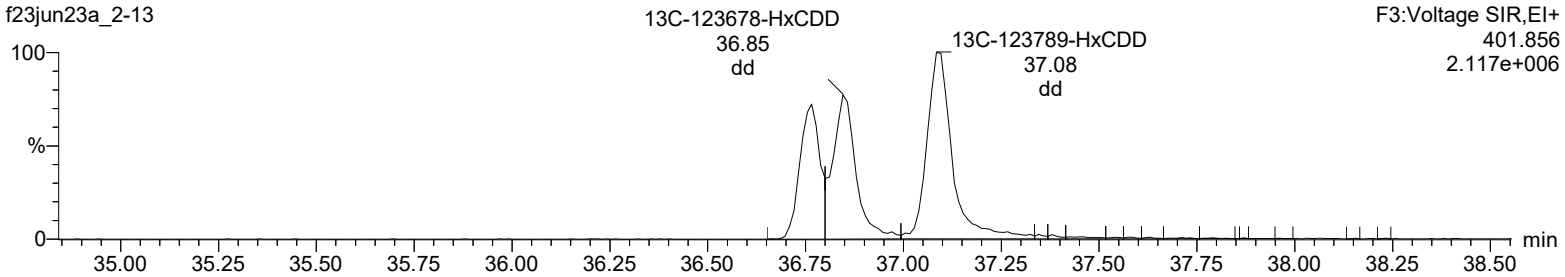
Total-hexadioxins



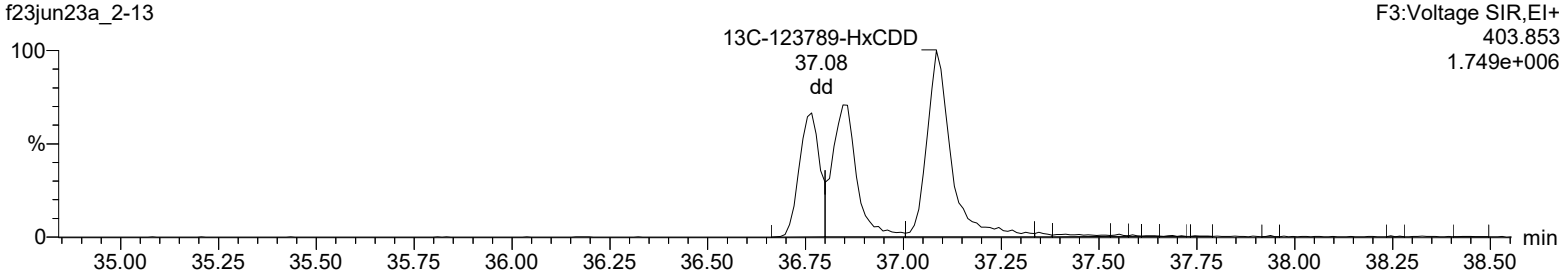
Total-hexadioxins



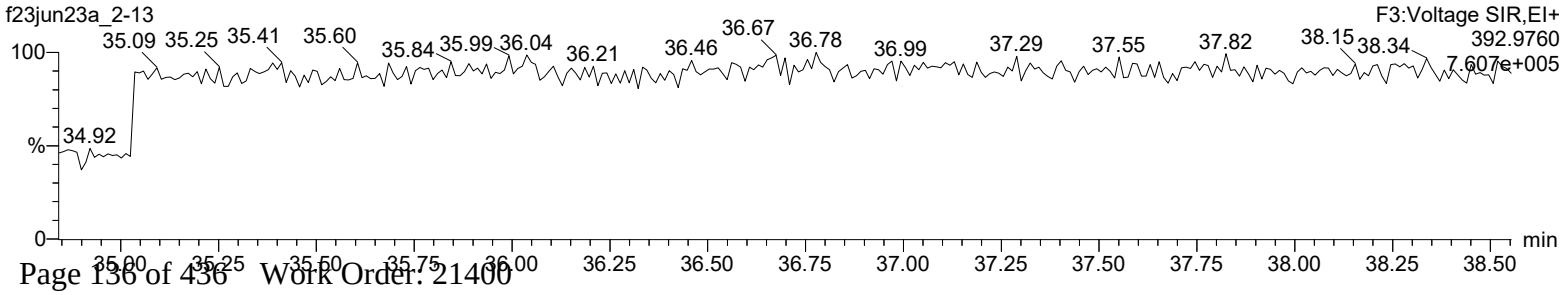
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



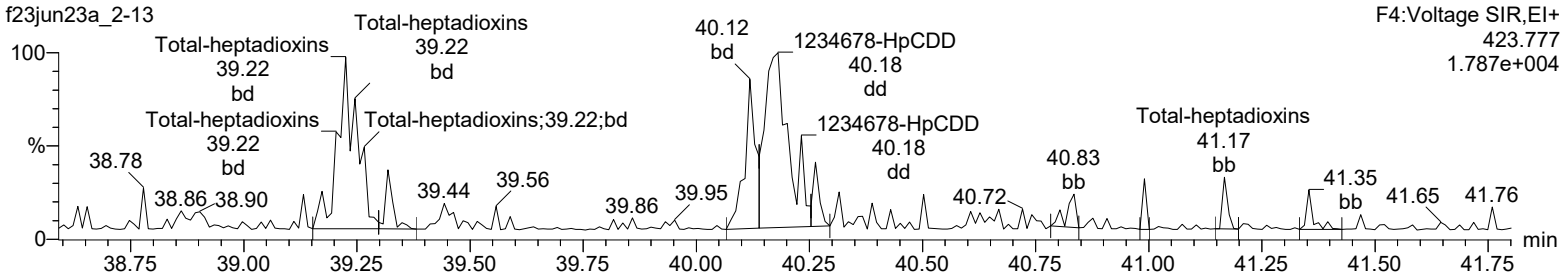
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

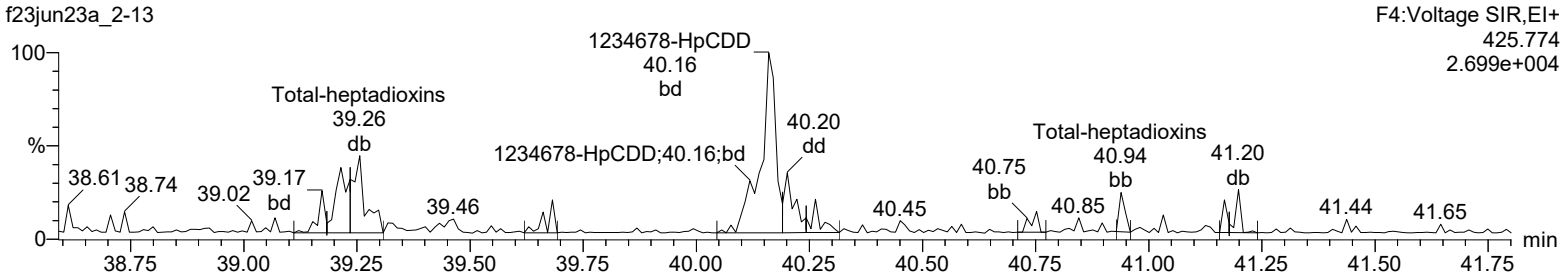
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

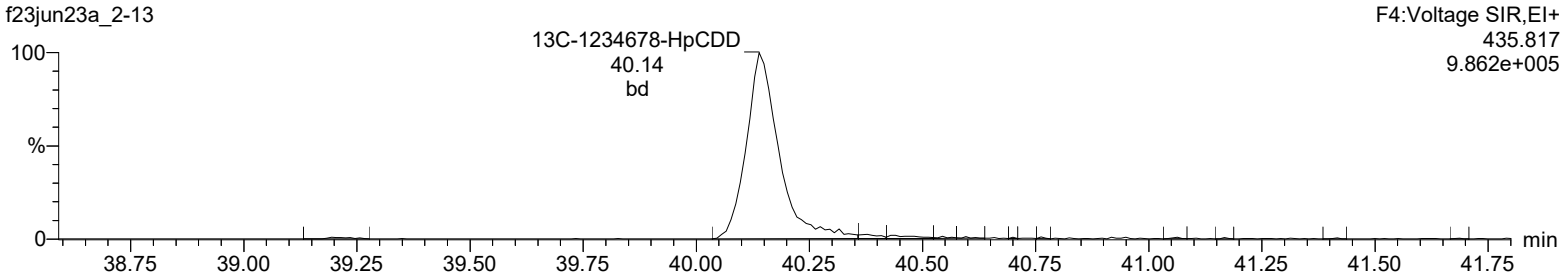
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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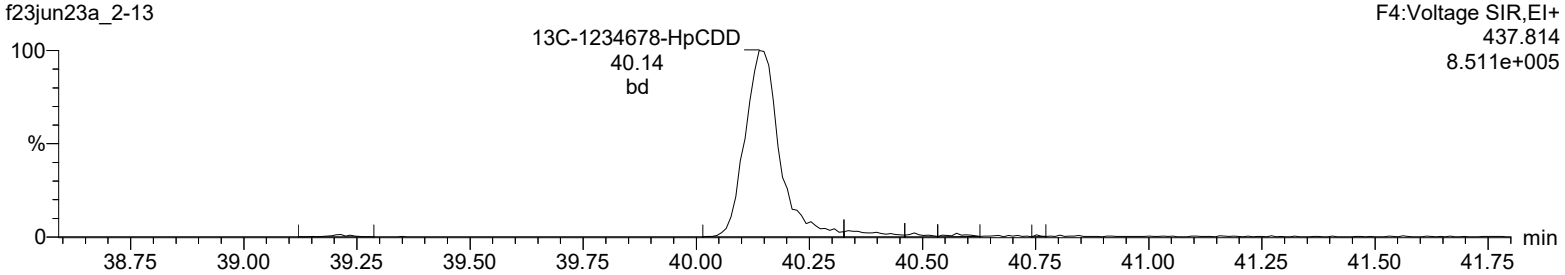
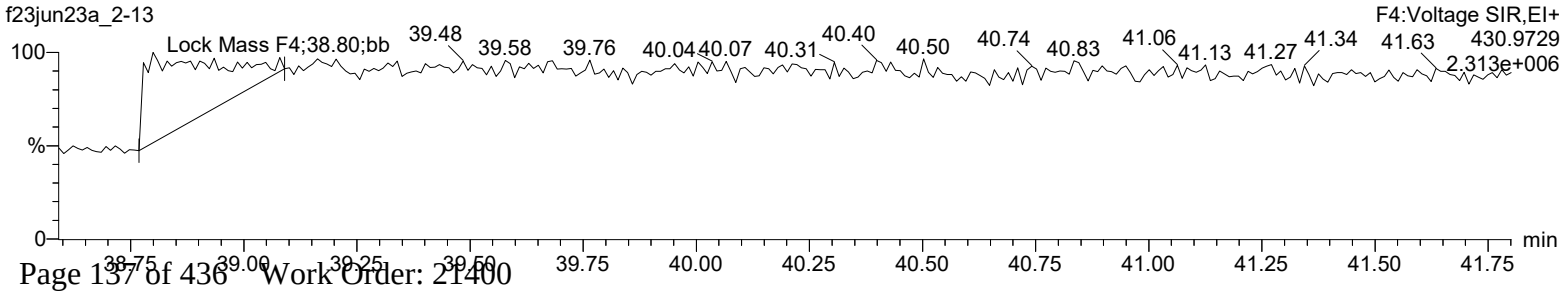


Lock Mass F4



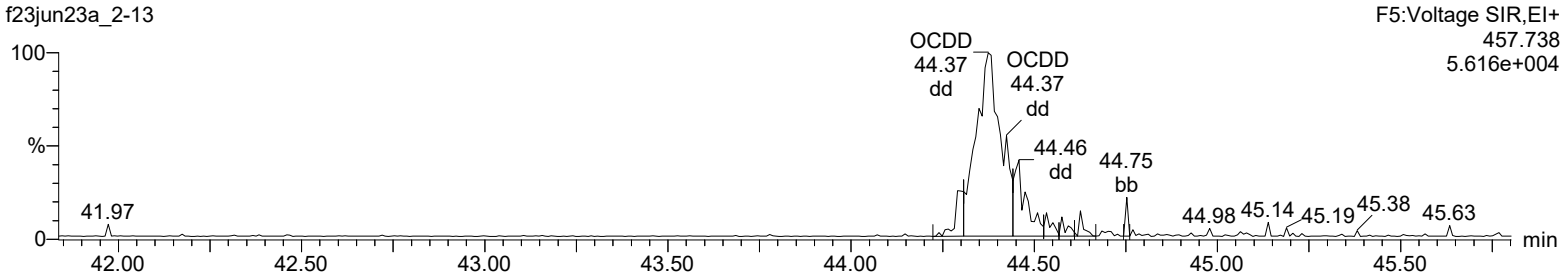
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

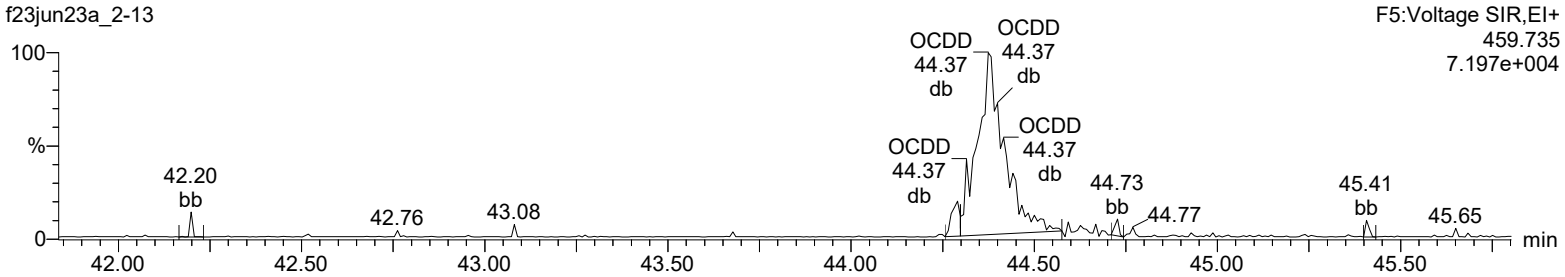
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

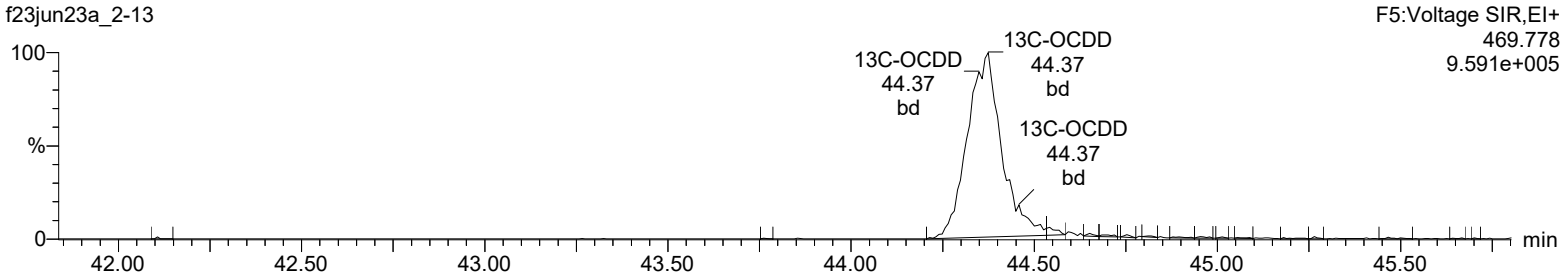
OCDD



OCDD



13C-OCDD



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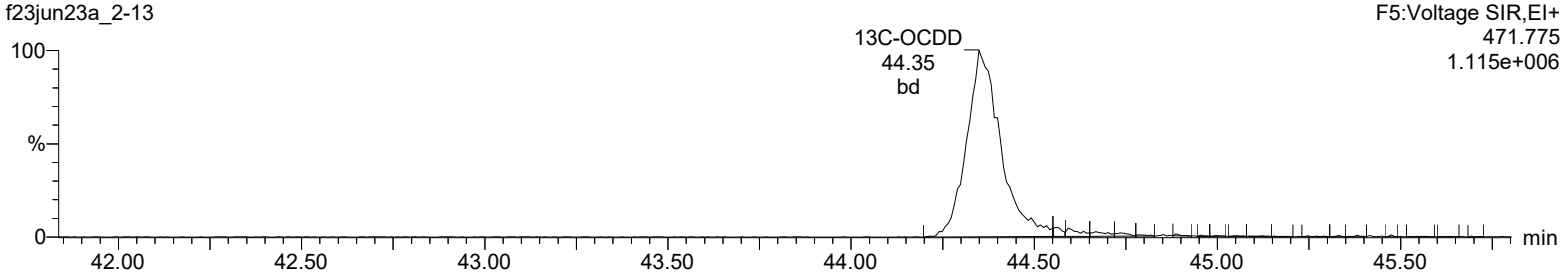
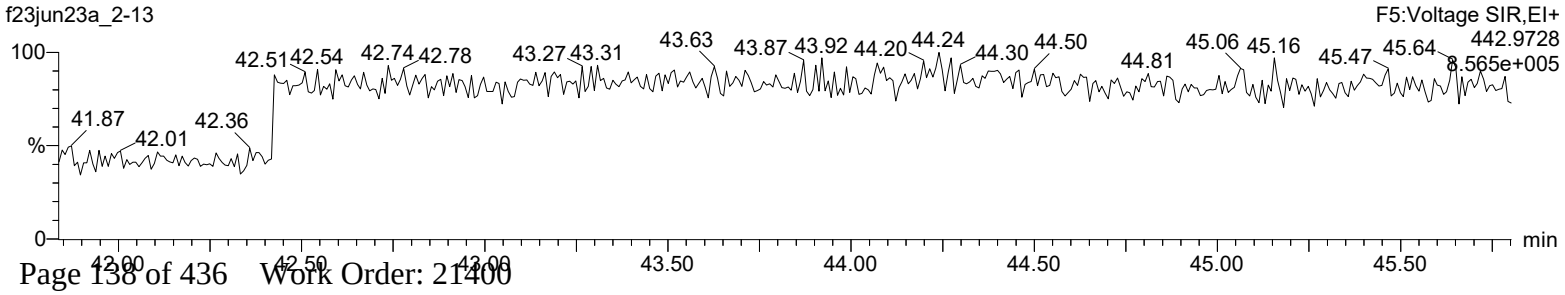


Lock Mass F5



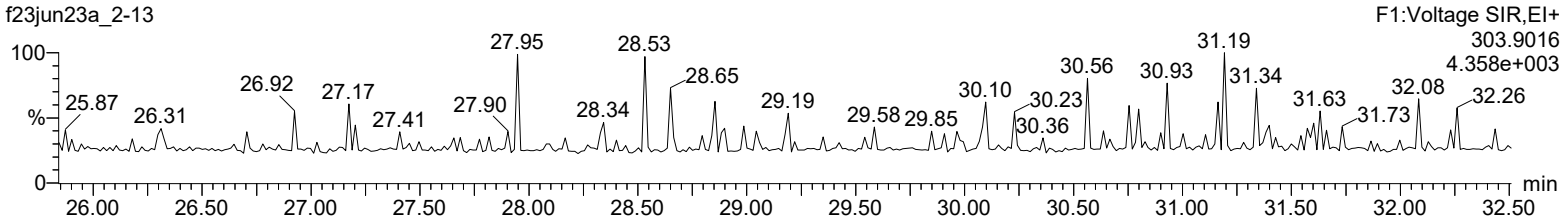
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

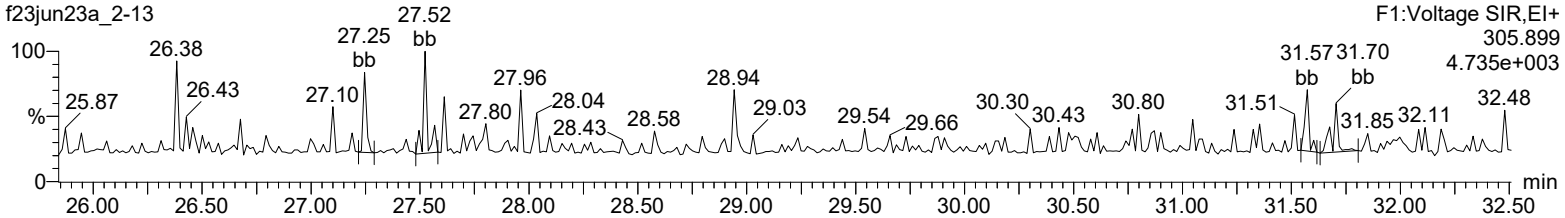
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

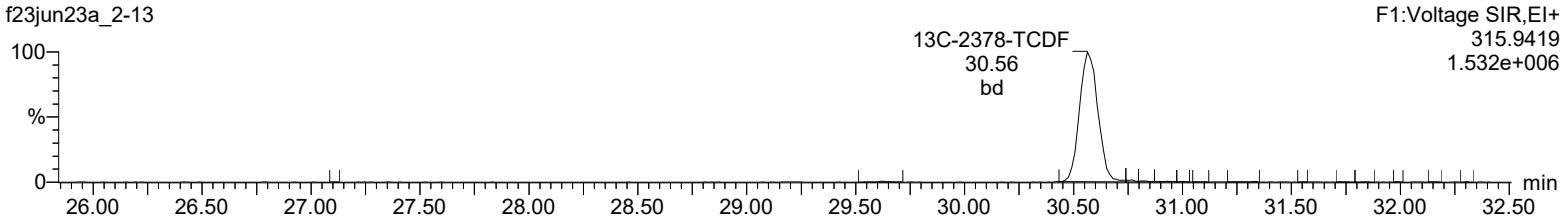
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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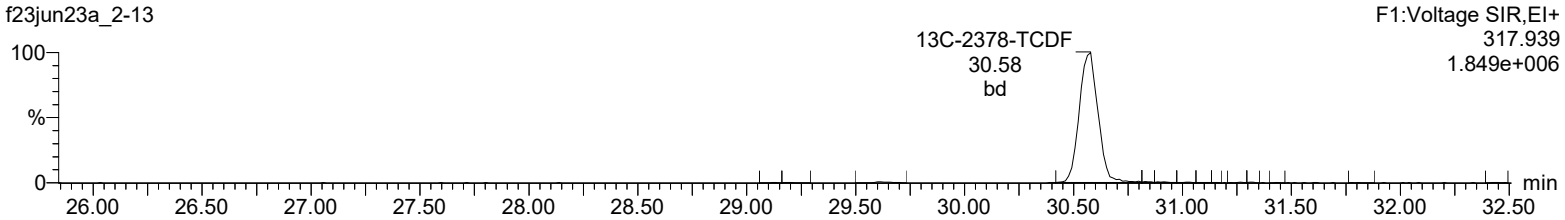

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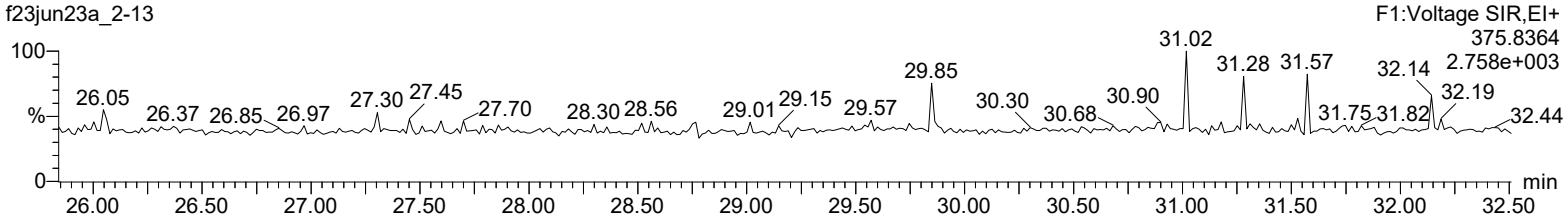
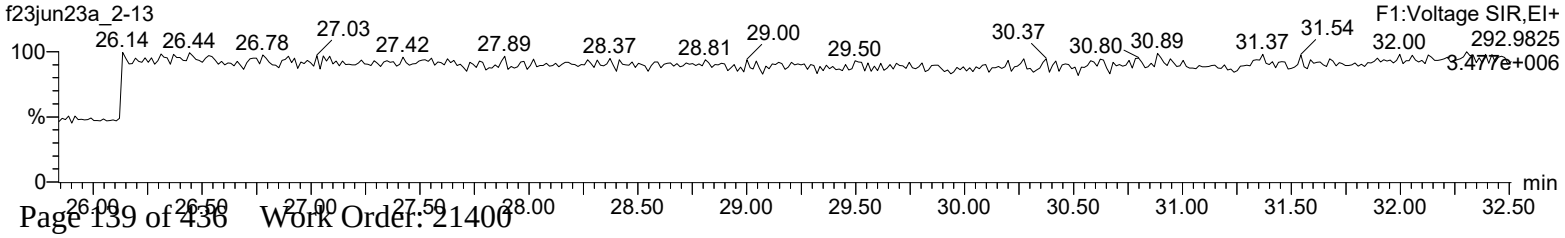


Lock Mass F1



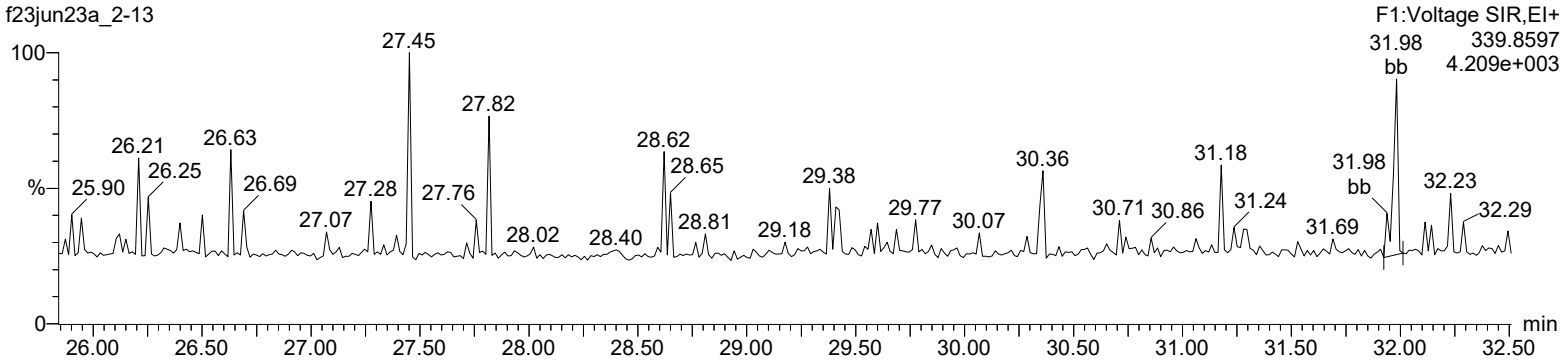
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

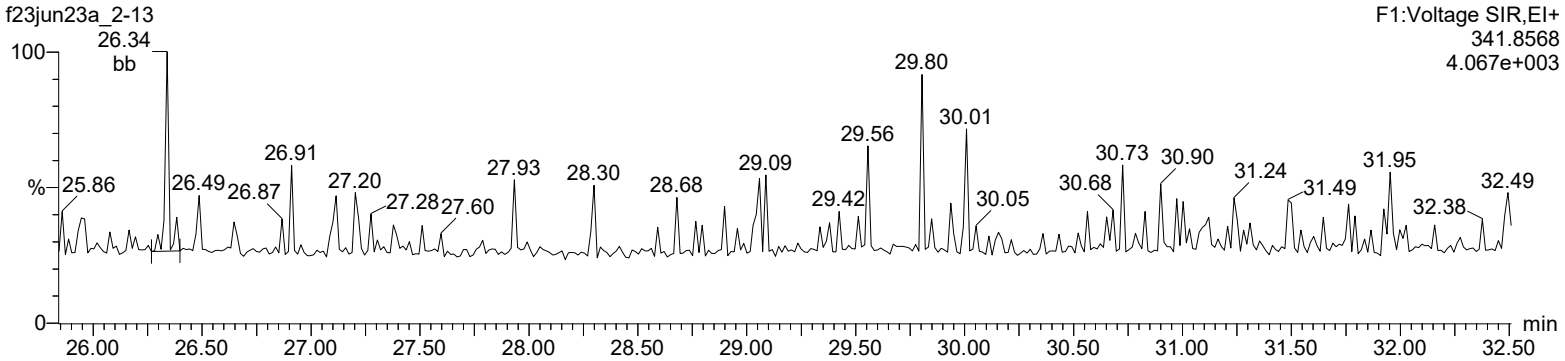
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

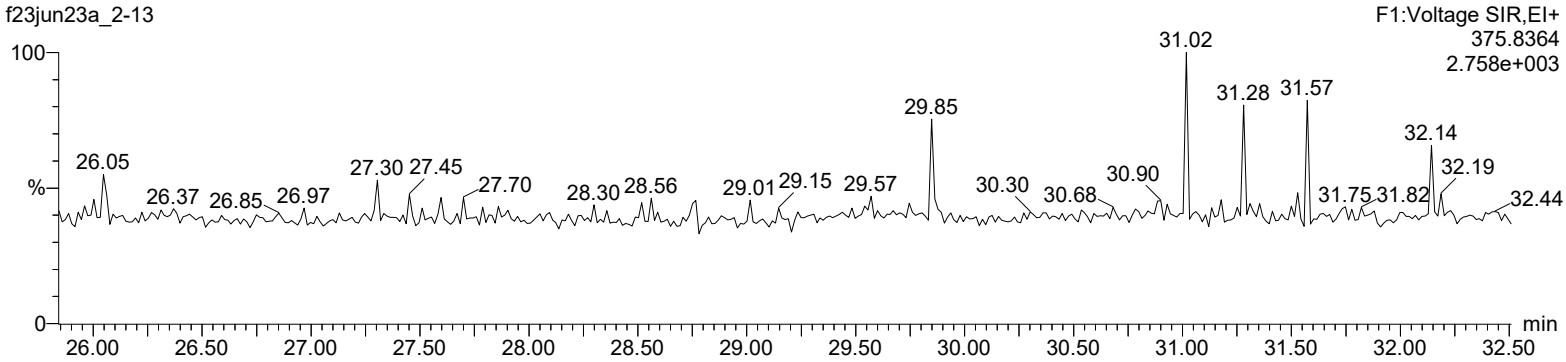
Total-pentafurans (F1)



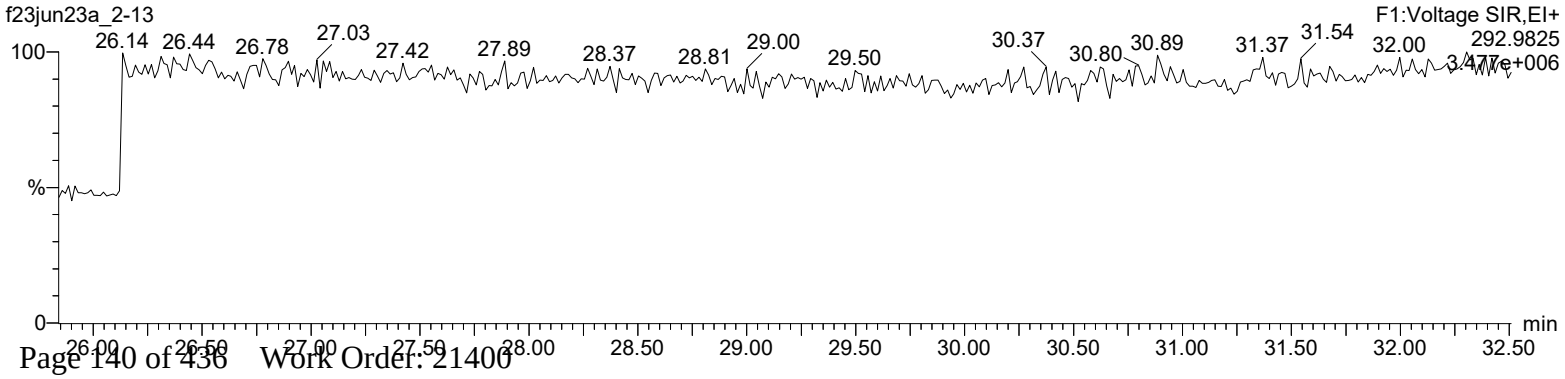
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

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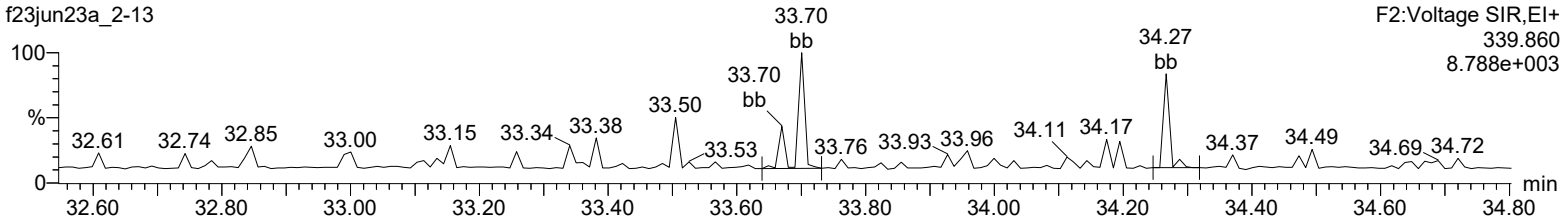
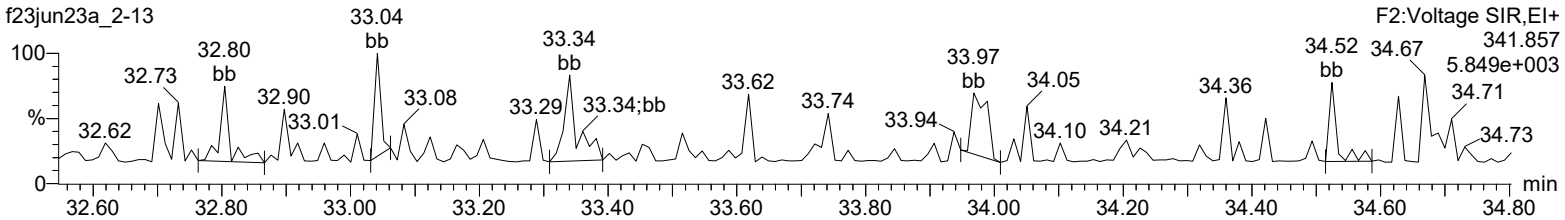
Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

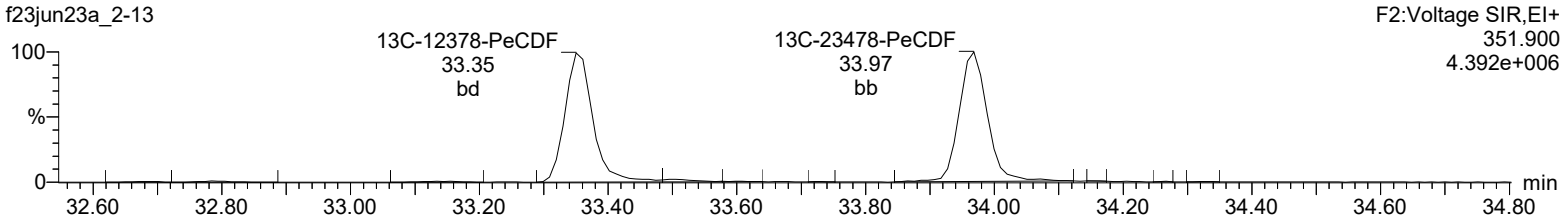
Total-pentafurans



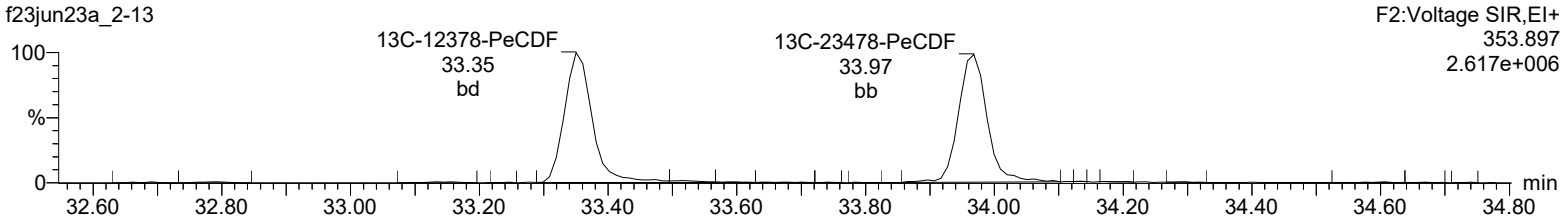
Total-pentafurans



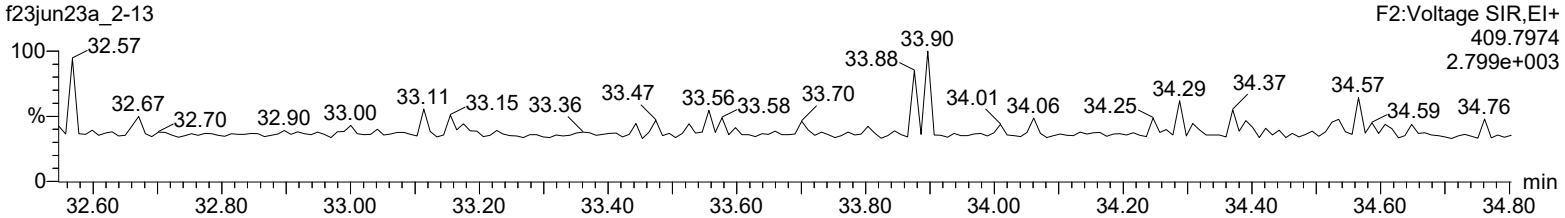
13C-12378-PeCDF



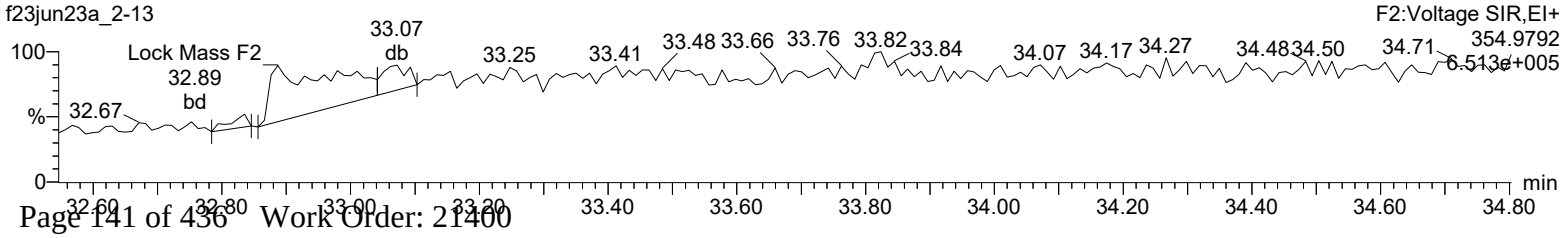
13C-12378-PeCDF



HpDPE



Lock Mass F2



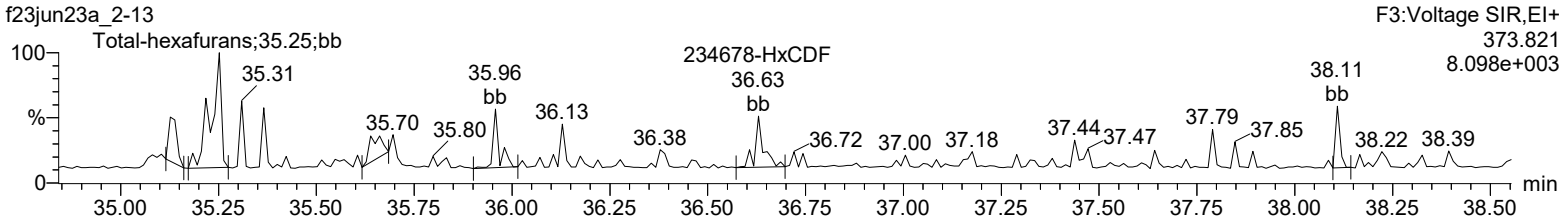
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

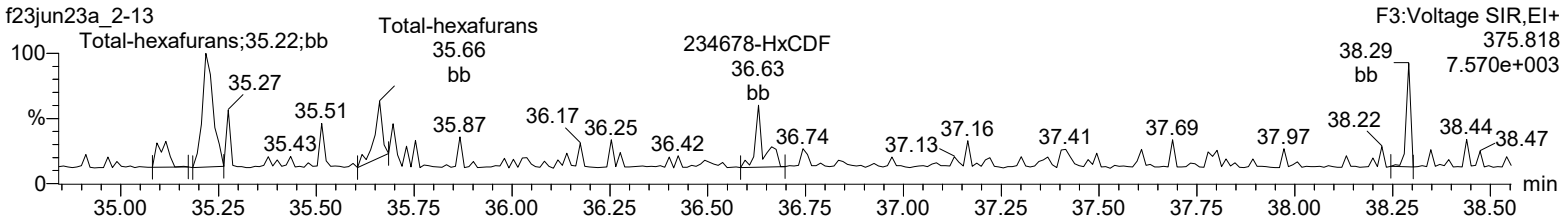
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

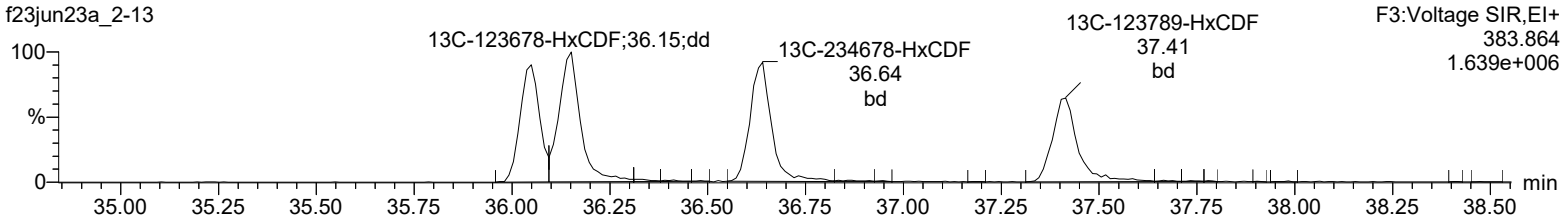
Total-hexafurans



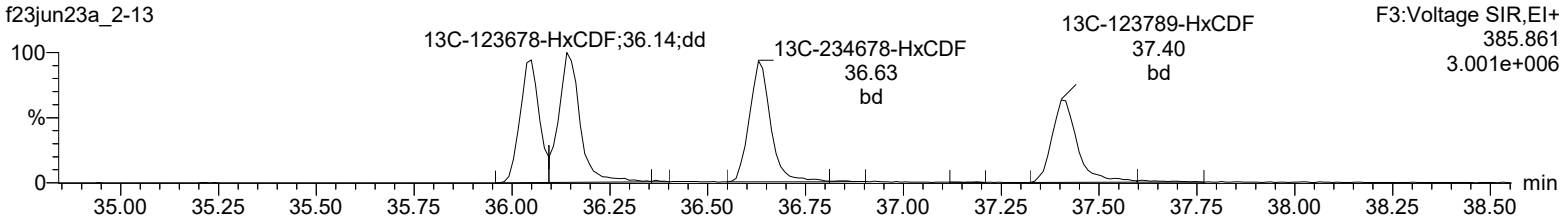
Total-hexafurans



13C-123478-HxCDF



13C-123478-HxCDF



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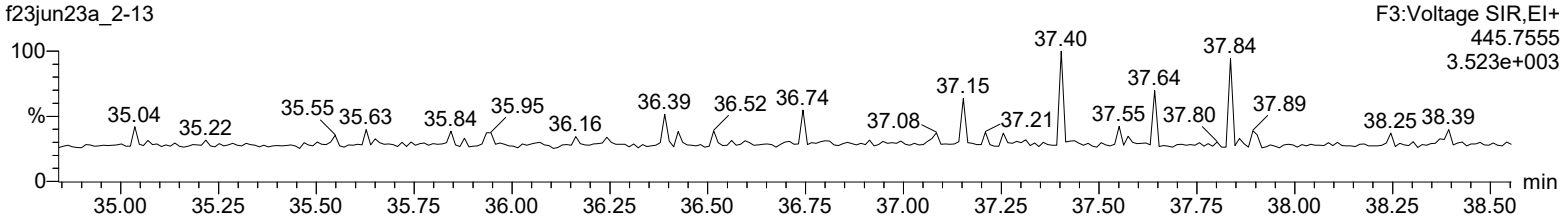
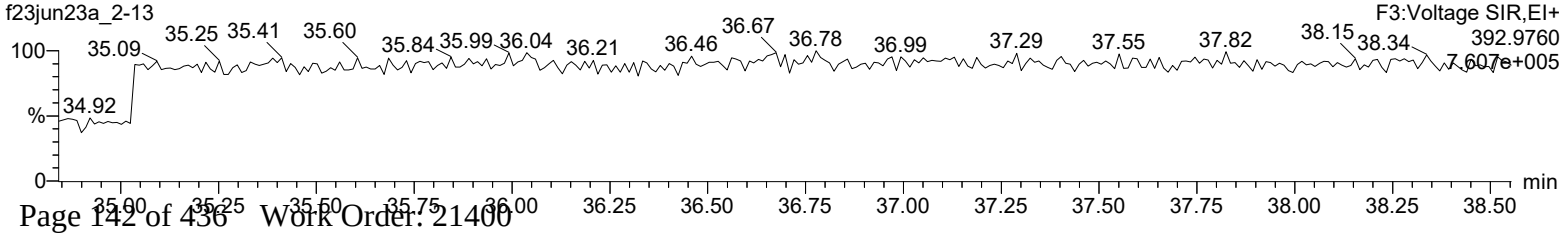


Lock Mass F3



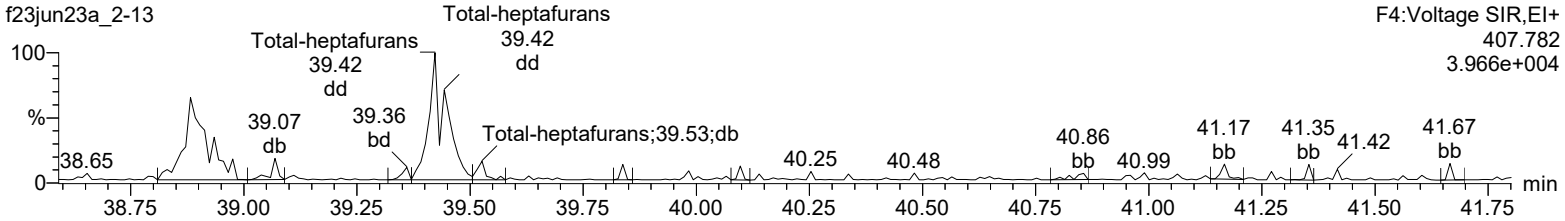
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

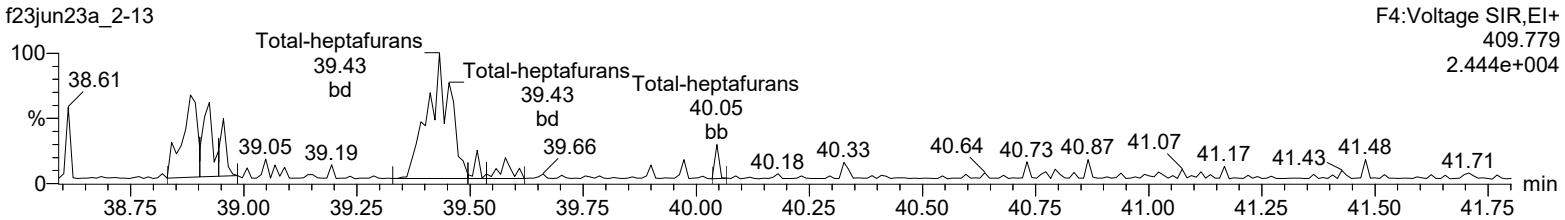
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

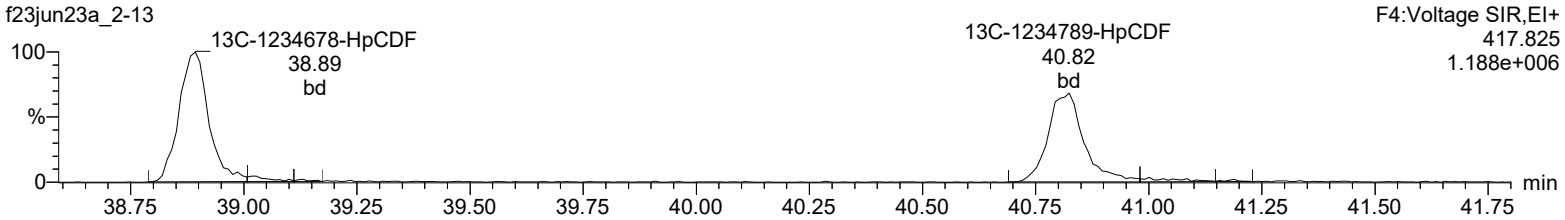
Total-heptafurans



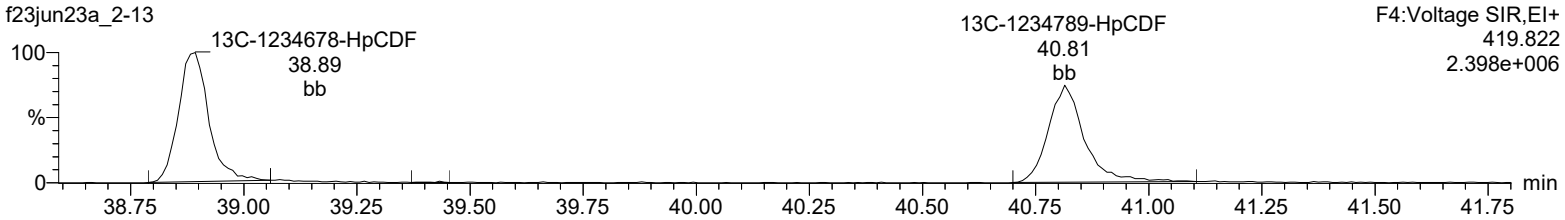
Total-heptafurans



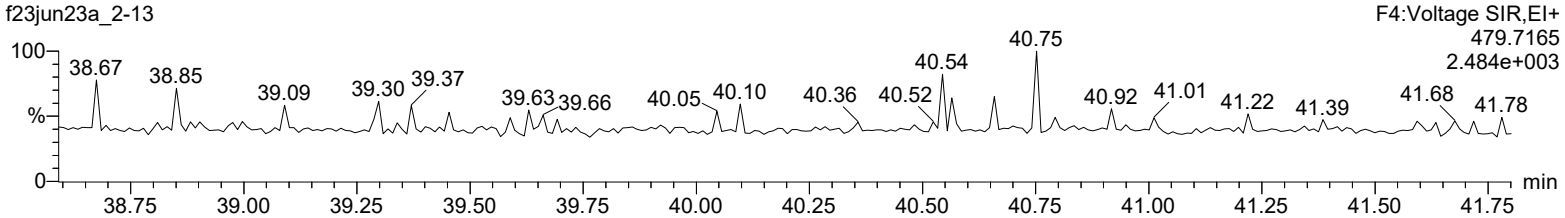
13C-1234678-HpCDF



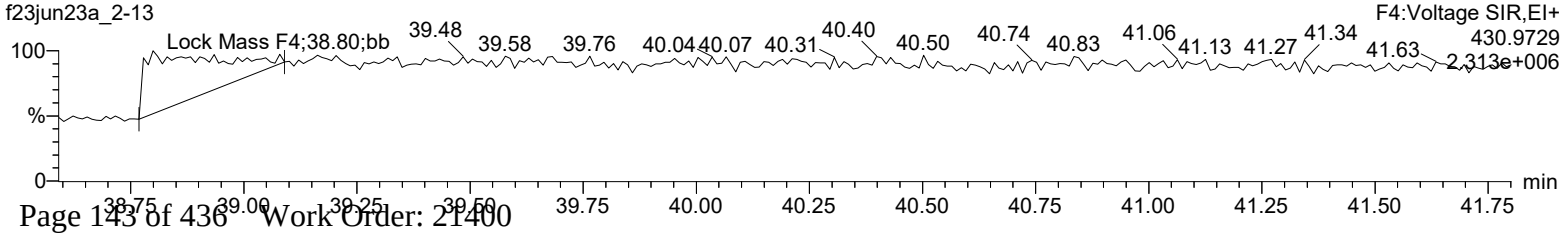
13C-1234678-HpCDF



NoDPE



Lock Mass F4



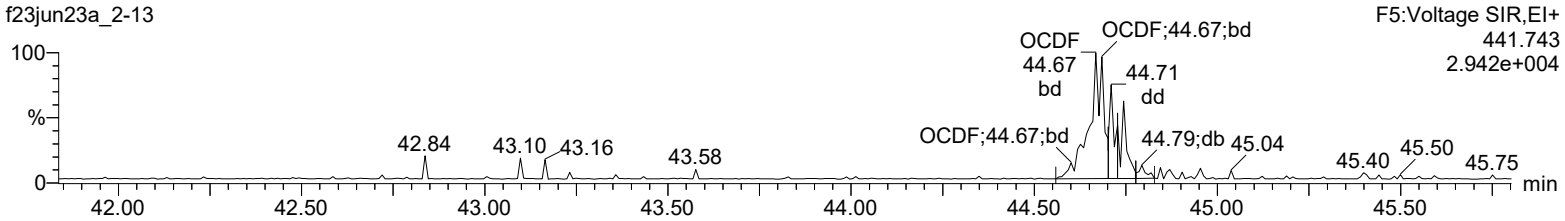
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_2.qld

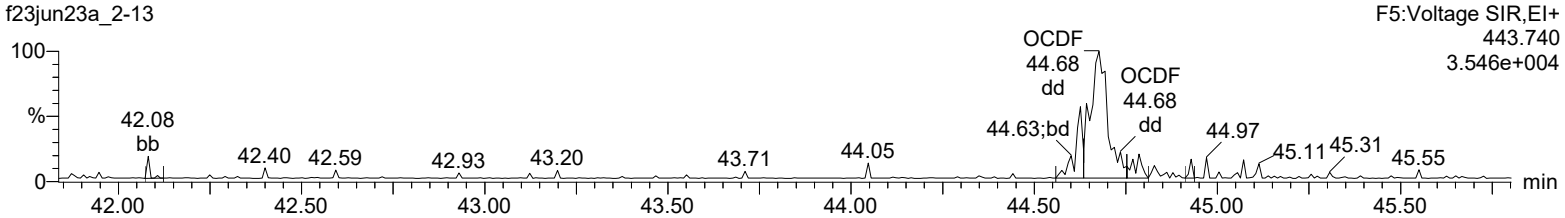
Last Altered: Monday, June 26, 2023 10:39:27 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:45:36 Eastern Daylight Time

Name: f23jun23a_2-13, Date: 24-Jun-2023, Time: 07:03:11, ID: 21400005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

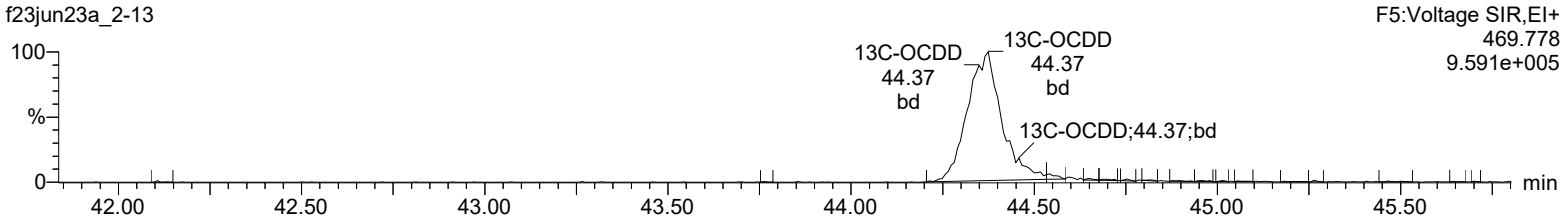
OCDF



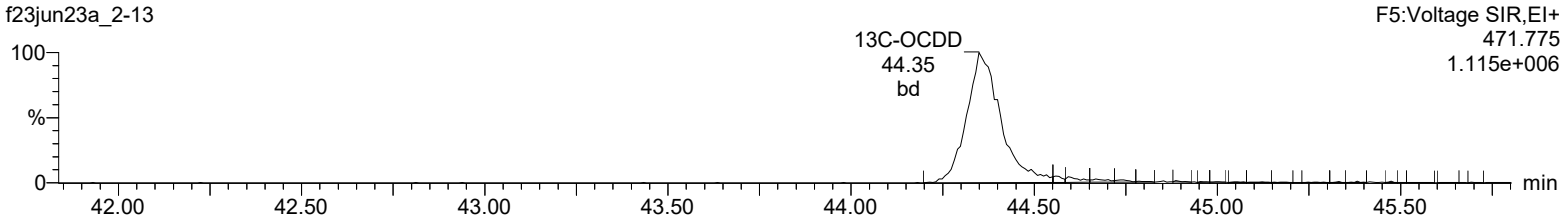
OCDF



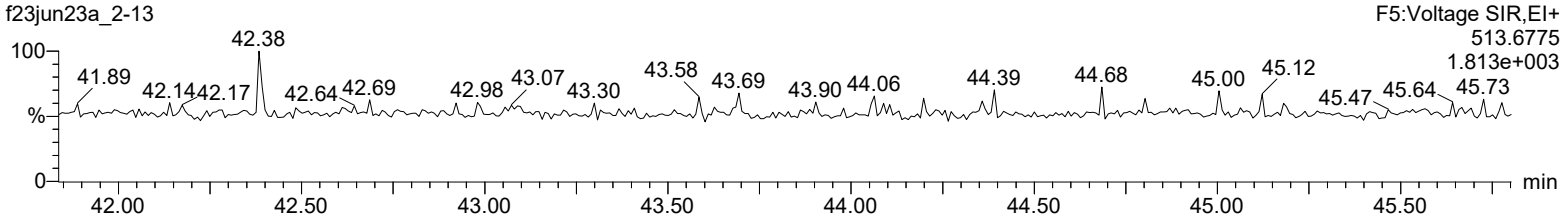
13C-OCDD



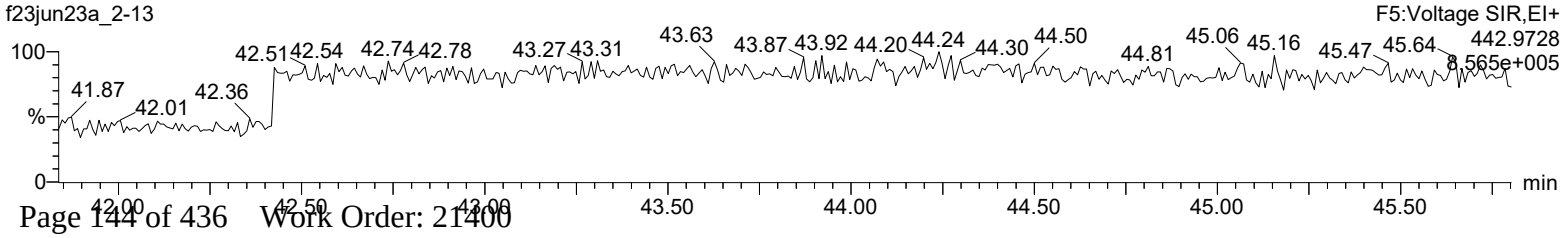
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400006**	**Date Collected:**	**03/09/2023 16:53**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR30-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/25/2023 15:59**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_5-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1007.7 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.74	pg/L	1.74	4.96
40321-76-4	1,2,3,7,8-PeCDD	U	2.62	pg/L	2.62	24.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.95	pg/L	3.95	49.6
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.59	pg/L	3.59	49.6
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.77	pg/L	3.77	49.6
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	26.7	pg/L	7.38	49.6
3268-87-9	1,2,3,4,6,7,8,9-OCDD		135	pg/L	13.9	99.2
51207-31-9	2,3,7,8-TCDF	U	1.98	pg/L	1.98	9.92
57117-41-6	1,2,3,7,8-PeCDF	U	1.95	pg/L	1.95	49.6
57117-31-4	2,3,4,7,8-PeCDF	U	1.85	pg/L	1.85	49.6
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.57	pg/L	1.57	49.6
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.60	pg/L	1.60	49.6
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.67	pg/L	1.67	49.6
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.30	pg/L	2.30	49.6
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	4.27	pg/L	2.88	49.6
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.65	pg/L	3.65	49.6
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	6.21	pg/L	6.21	99.2
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	1.74	pg/L	1.74	9.92
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.62	pg/L	2.62	49.6
34465-46-8	Total Hexachlorodibenzo-p-dioxin	JK	7.46	pg/L	3.59	49.6
TCDF	Total Tetrachlorodibenzofuran	U	1.98	pg/L	1.98	9.92
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	53.4	pg/L	7.38	49.6
30402-15-4	Total Pentachlorodibenzofuran	JK	2.08	pg/L	0.726	49.6
55684-94-1	Total Hexachlorodibenzofuran	J	3.67	pg/L	1.57	49.6
38998-75-3	Total Heptachlorodibenzofuran	JK	9.29	pg/L	2.88	49.6
TEQ	TEQ WHO2005 ND=0		0.350	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.88	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1280	1980	pg/L	64.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		907	1980	pg/L	45.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1340	1980	pg/L	67.5	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1290	1980	pg/L	64.9	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1520	1980	pg/L	76.4	(23%-140%)
13C-OCDD		3110	3970	pg/L	78.2	(17%-157%)
13C-2,3,7,8-TCDF		1490	1980	pg/L	75.2	(24%-169%)
13C-1,2,3,7,8-PeCDF		834	1980	pg/L	42.0	(24%-185%)
13C-2,3,4,7,8-PeCDF		879	1980	pg/L	44.3	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1220	1980	pg/L	61.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1190	1980	pg/L	59.7	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1260	1980	pg/L	63.6	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1300	1980	pg/L	65.7	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21400006**	**Date Collected:**	**03/09/2023 16:53**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**03/29/2023 12:31**		
Client ID:	**SIB-SW-WR30-030923**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/25/2023 15:59**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_5-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1007.7 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1320	1980	pg/L	66.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1570	1980	pg/L	79.2	(26%-138%)
37Cl-2,3,7,8-TCDD		144	198	pg/L	72.6	(35%-197%)

Comments:

J **Value is estimated**

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/27/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5-11.qld

Last Altered: Tuesday, June 27, 2023 11:38:49 Eastern Daylight Time
Printed: Tuesday, June 27, 2023 10:49:26 Eastern Daylight Time

AMM 06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.0876		3063			1560			
2	12378-PeCDD	8.08e1	6.11e1	1.42e2	34.15	1.000	1.32	NO	0.028	0.132	2.43e3	2583	0.9	2.71e3	2010	1.3	bd	bd
3	123478-HxCDD	1.80e2	1.15e2	2.95e2	36.79	1.000	1.57	YES	0.069	0.199	6.03e3	3236	1.9	4.17e3	2230	1.9	bd	dd
4	123678-HxCDD	2.73e2	1.89e2	4.62e2	36.87	1.000	1.44	YES	0.094	0.181	5.00e3	3236	1.5	5.14e3	2230	2.3	db	db
5	123789-HxCDD	1.68e2	1.17e2	2.85e2	37.13	1.007	1.43	YES	0.062	0.190	4.81e3	3236	1.5	2.76e3	2230	1.2	bd	bb
6	1234678-HpCDD	3.82e3	3.19e3	7.01e3	40.17	1.000	1.20	NO	1.344	0.372	5.32e4	4961	10.7	4.18e4	3828	10.9	MM	MM
7	OCDD	1.29e4	1.39e4	2.68e4	44.41	1.000	0.93	NO	6.824	0.698	1.20e5	4712	25.5	1.18e5	4332	27.2	MM	MM
8	2378-TCDF	1.05e2	7.54e1	1.80e2	30.56	0.999	1.39	YES	0.009	0.100	3.95e3	3575	1.1	2.64e3	3914	0.7	dd	bb
9	12378-PeCDF	9.49e1	1.50e2	2.45e2	33.36	1.000	0.63	YES	0.023	0.0984	3.17e3	4223	0.8	4.47e3	3488	1.3	bd	bd
10	23478-PeCDF	2.68e2	1.81e2	4.49e2	33.99	1.000	1.49	NO	0.039	0.0931	1.36e4	4223	3.2	8.33e3	3488	2.4	bb	bd
11	123478-HxCDF							NO		0.0793		2318			1893			
12	123678-HxCDF							NO		0.0805		2318			1893			
13	234678-HxCDF	1.05e2	1.33e2	2.38e2	36.66	1.000	0.79	YES	0.028	0.0840	4.78e3	2318	2.1	5.02e3	1893	2.7	db	bb
14	123789-HxCDF							NO		0.116		2318			1893			
15	1234678-HpCDF	1.27e3	8.52e2	2.12e3	38.88	0.999	1.49	YES	0.215	0.145	2.86e4	4311	6.6	1.65e4	3365	4.9	MM	MM
16	1234789-HpCDF							NO		0.184		4311			3365			
17	OCDF	7.48e2	5.59e2	1.31e3	44.68	1.007	1.34	YES	0.210	0.313	1.15e4	2741	4.2	1.23e4	3677	3.3	MM	MM
18	13C-2378-TCDD	3.74e5	4.71e5	8.45e5	31.30	1.017	0.80	NO	64.424	0.150	5.31e6	6286	845.2	6.48e6	2743	2364.2	bb	bd
19	13C-12378-PeCDD	2.64e5	1.64e5	4.28e5	34.16	1.110	1.61	NO	45.724	0.179	4.60e6	4006	1148.3	2.91e6	3672	791.6	bb	bd
20	13C-123478-HxCDD	2.31e5	1.66e5	3.97e5	36.78	0.991	1.39	NO	67.472	0.485	3.72e6	8752	424.8	2.94e6	5691	516.9	bd	bd
21	13C-123678-HxCDD	2.52e5	2.11e5	4.63e5	36.87	0.994	1.19	NO	64.870	0.400	3.86e6	8752	440.8	2.91e6	5691	511.9	dd	dd
22	13C-1234678-HpCDD	2.20e5	2.04e5	4.25e5	40.17	1.082	1.08	NO	76.378	0.522	2.50e6	7934	314.8	2.38e6	6758	351.7	bb	bd
23	13C-OCDD	3.35e5	3.74e5	7.09e5	44.39	1.196	0.90	NO	156.453	0.760	2.77e6	7818	353.7	2.98e6	9616	310.0	bd	bd
24	13C-2378-TCDF	6.73e5	8.29e5	1.50e6	30.58	0.993	0.81	NO	75.227	0.119	6.19e6	5767	1074.1	7.63e6	5092	1498.2	bd	bd
25	13C-12378-PeCDF	5.17e5	3.14e5	8.32e5	33.36	1.084	1.64	NO	42.019	0.300	9.57e6	11843	807.6	5.79e6	15333	377.8	bd	bd
26	13C-23478-PeCDF	5.18e5	3.08e5	8.26e5	33.98	1.104	1.68	NO	44.283	0.318	9.32e6	11843	786.8	5.72e6	15333	373.0	bd	bb
27	13C-123478-HxCDF	1.91e5	3.60e5	5.51e5	36.06	0.972	0.53	NO	61.430	0.452	3.24e6	5126	631.7	6.09e6	15390	395.6	bd	bd
28	13C-123678-HxCDF	2.35e5	4.29e5	6.63e5	36.16	0.975	0.55	NO	59.730	0.365	3.36e6	5126	655.2	6.24e6	15390	405.2	dd	db
29	13C-234678-HxCDF	2.08e5	3.82e5	5.91e5	36.65	0.988	0.54	NO	63.556	0.436	3.11e6	5126	606.3	5.87e6	15390	381.7	bd	bb
30	13C-123789-HxCDF	1.90e5	3.53e5	5.43e5	37.43	1.009	0.54	NO	65.724	0.490	2.45e6	5126	477.2	4.54e6	15390	295.0	bd	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5-11.qld

Last Altered: Tuesday, June 27, 2023 11:38:49 Eastern Daylight Time
Printed: Tuesday, June 27, 2023 10:49:26 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	2.29e5	4.83e5	7.12e5	38.91	1.049	0.47	NO	66.692	0.536	3.07e6	11514	266.3	6.15e6	17429	352.8	bb	bd
32	13C-1234789-HpCDF	2.10e5	4.49e5	6.59e5	40.85	1.101	0.47	NO	79.166	0.687	2.44e6	11514	211.7	4.87e6	17429	279.2	bd	bd
33	13C-1234-TCDD	5.26e5	6.26e5	1.15e6	30.78	0.000	0.84	NO	100.000	0.171	6.02e6	6286	958.1	7.09e6	2743	2586.0	bd	bb
34	13C-123789-HxCDD	3.89e5	3.06e5	6.95e5	37.11	0.000	1.27	NO	100.000	0.411	4.92e6	8752	562.1	3.91e6	5691	688.0	dd	dd
35	37Cl-2378-TCDD	9.40e4		9.40e4	31.31	1.017			7.262	0.0318	1.32e6	1883	700.4				bb	

Reasons for Analyst Intervention

Name:f23jun23a_5-11, ID:21400006-1, Description: 52698

M	M2
6 1234678-HpCDD 40.17 - AB	6 1234678-HpCDD 40.17 - AB
7 OCDD 44.41 - AB	7 OCDD 44.41 - AB
15 1234678-HpCDF 38.88 - AB	15 1234678-HpCDF 38.88 - AB
17 OCDF 44.68 - AB	17 OCDF 44.68 - AB

Reason Codes assigned by MW1 on 27-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/27/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5-11.qld

Last Altered: Tuesday, June 27, 2023 11:38:49 Eastern Daylight Time
Printed: Tuesday, June 27, 2023 10:49:26 Eastern Daylight Time

06/28/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	1.60e2	6.00e1	2.20e2	29.80	2.66	YES	0.024	0.0876	4.14e3	3063	1.4	2.05e3	1560	1.3	bd	bb
2	Total-tetradioxins	5.34e1	6.07e1	1.14e2	29.47	0.88	NO	0.012	0.0876	2.26e3	3063	0.7	1.37e3	1560	0.9	bb	bb
3	Total-tetradioxins	9.82e1	1.48e2	2.46e2	29.12	0.66	NO	0.026	0.0876	4.65e3	3063	1.5	5.77e3	1560	3.7	bb	db
4	Total-tetradioxins	1.84e2	7.79e1	2.62e2	28.03	2.36	YES	0.028	0.0876	4.54e3	3063	1.5	3.44e3	1560	2.2	bb	bd
5	Total-tetradioxins	8.13e1	1.41e2	2.23e2	27.04	0.58	YES	0.024	0.0876	4.38e3	3063	1.4	2.35e3	1560	1.5	bb	bb
6	Total-tetradioxins	1.72e2	6.96e1	2.42e2	26.06	2.48	YES	0.026	0.0876	6.05e3	3063	2.0	3.12e3	1560	2.0	db	db
7	Total-tetradioxins	2.71e2	5.37e1	3.25e2	25.93	5.05	YES	0.035	0.0876	5.07e3	3063	1.7	2.69e3	1560	1.7	bd	bd
8	Total-tetradioxins	1.05e2	6.74e1	1.72e2	32.41	1.56	YES	0.019	0.0876	5.62e3	3063	1.8	2.52e3	1560	1.6	bb	bb
9	Total-tetradioxins	8.17e1	6.81e1	1.50e2	31.51	1.20	YES	0.016	0.0876	2.68e3	3063	0.9	1.59e3	1560	1.0	bb	bb
10	Total-tetradioxins	2.18e2	6.48e1	2.83e2	30.78	3.36	YES	0.030	0.0876	4.81e3	3063	1.6	2.39e3	1560	1.5	db	bb
11	Total-tetradioxins	1.53e2	1.50e2	3.02e2	30.62	1.02	YES	0.033	0.0876	3.24e3	3063	1.1	2.19e3	1560	1.4	bd	bb
12	Total-tetradioxins	1.93e2	6.02e1	2.53e2	30.40	3.20	YES	0.027	0.0876	4.75e3	3063	1.6	2.00e3	1560	1.3	bb	bb
13	Total-tetradioxins	1.48e2	1.65e2	3.13e2	30.05	0.90	YES	0.034	0.0876	4.27e3	3063	1.4	5.30e3	1560	3.4	bd	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentadioxins	1.14e2	7.31e1	1.87e2	33.53	1.56	NO	0.038	0.132	4.50e3	2583	1.7	4.59e3	2010	2.3	db	db
2	Total-pentadioxins	6.59e1	9.41e1	1.60e2	33.49	0.70	YES	0.032	0.132	3.22e3	2583	1.2	2.58e3	2010	1.3	bd	bd
3	Total-pentadioxins	1.04e2	7.76e1	1.81e2	34.21	1.34	NO	0.036	0.132	2.86e3	2583	1.1	3.02e3	2010	1.5	db	db
4	12378-PeCDD	8.08e1	6.11e1	1.42e2	34.15	1.32	NO	0.028	0.132	2.43e3	2583	0.9	2.71e3	2010	1.3	bd	bd
5	Total-pentadioxins	5.81e1	6.77e1	1.26e2	33.94	0.86	YES	0.025	0.132	3.73e3	2583	1.4	1.75e3	2010	0.9	dd	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5-11.qld

Last Altered: Tuesday, June 27, 2023 11:38:49 Eastern Daylight Time
Printed: Tuesday, June 27, 2023 10:49:26 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	123789-HxCDD	1.68e2	1.17e2	2.85e2	37.13	1.43	YES	0.062	0.190	4.81e3	3236	1.5	2.76e3	2230	1.2	bd	bb
2	123678-HxCDD	2.73e2	1.89e2	4.62e2	36.87	1.44	YES	0.094	0.181	5.00e3	3236	1.5	5.14e3	2230	2.3	db	db
3	123478-HxCDD	1.80e2	1.15e2	2.95e2	36.79	1.57	YES	0.069	0.199	6.03e3	3236	1.9	4.17e3	2230	1.9	bd	dd
4	Total-hexadioxins	2.25e2	1.76e2	4.01e2	36.64	1.28	NO	0.087	0.190	7.55e3	3236	2.3	9.24e3	2230	4.1	bb	bb
5	Total-hexadioxins	1.13e3	6.00e2	1.73e3	36.26	1.88	YES	0.376	0.190	1.27e4	3236	3.9	8.71e3	2230	3.9	MM	bb
6	Total-hexadioxins	2.37e2	8.78e1	3.25e2	36.05	2.70	YES	0.071	0.190	6.79e3	3236	2.1	5.51e3	2230	2.5	db	bb
7	Total-hexadioxins	4.66e2	3.93e2	8.59e2	35.54	1.19	NO	0.187	0.190	7.52e3	3236	2.3	7.46e3	2230	3.3	bb	bb
8	Total-hexadioxins	1.09e2	6.69e1	1.76e2	37.55	1.63	YES	0.038	0.190	4.91e3	3236	1.5	2.58e3	2230	1.2	bb	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDD	3.82e3	3.19e3	7.01e3	40.17	1.20	NO	1.344	0.372	5.32e4	4961	10.7	4.18e4	3828	10.9	MM	MM
2	Total-heptadioxins	9.40e1	2.39e2	3.33e2	39.41	0.39	YES	0.064	0.372	8.32e3	4961	1.7	9.20e3	3828	2.4	bb	bb
3	Total-heptadioxins	3.85e3	3.17e3	7.01e3	39.25	1.22	YES	1.345	0.372	8.23e4	4961	16.6	4.04e4	3828	10.6	MM	MM

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5-11.qld

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Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	5.34e1	1.29e2	1.83e2	25.93	0.41	YES	0.009	0.100	3.18e3	3575	0.9	4.92e3	3914	1.3	bb	bb
2	Total-tetrafurans	6.24e1	1.48e2	2.10e2	28.83	0.42	YES	0.010	0.100	1.86e3	3575	0.5	6.82e3	3914	1.7	bd	bb
3	Total-tetrafurans	8.48e1	9.93e1	1.84e2	28.43	0.85	NO	0.009	0.100	4.32e3	3575	1.2	2.96e3	3914	0.8	bb	bb
4	Total-tetrafurans	6.52e1	1.60e2	2.26e2	28.36	0.41	YES	0.011	0.100	3.66e3	3575	1.0	7.49e3	3914	1.9	db	db
5	Total-tetrafurans	2.33e2	2.24e2	4.57e2	28.31	1.04	YES	0.022	0.100	6.16e3	3575	1.7	5.22e3	3914	1.3	bd	dd
6	Total-tetrafurans	1.54e2	1.25e2	2.79e2	28.11	1.23	YES	0.014	0.100	5.33e3	3575	1.5	7.39e3	3914	1.9	bb	bb
7	Total-tetrafurans	8.72e1	1.48e2	2.36e2	27.31	0.59	YES	0.012	0.100	3.99e3	3575	1.1	3.73e3	3914	1.0	db	db
8	Total-tetrafurans	2.22e2	4.07e2	6.29e2	27.23	0.55	YES	0.031	0.100	4.17e3	3575	1.2	1.10e4	3914	2.8	bd	bd
9	Total-tetrafurans	1.23e2	5.62e1	1.79e2	26.79	2.19	YES	0.009	0.100	2.94e3	3575	0.8	2.87e3	3914	0.7	bb	bb
10	Total-tetrafurans	8.32e1	8.00e1	1.63e2	26.56	1.04	YES	0.008	0.100	4.67e3	3575	1.3	2.65e3	3914	0.7	bb	bb
11	Total-tetrafurans	1.05e2	7.06e1	1.76e2	26.31	1.49	YES	0.009	0.100	4.66e3	3575	1.3	3.18e3	3914	0.8	bb	bb
12	Total-tetrafurans	2.06e2	1.74e2	3.79e2	31.22	1.18	YES	0.019	0.100	6.45e3	3575	1.8	7.61e3	3914	1.9	bb	bb
13	Total-tetrafurans	1.16e2	1.31e2	2.47e2	31.12	0.88	NO	0.012	0.100	3.92e3	3575	1.1	3.51e3	3914	0.9	bb	bb
14	Total-tetrafurans	6.46e1	8.51e1	1.50e2	30.64	0.76	NO	0.007	0.100	2.47e3	3575	0.7	3.47e3	3914	0.9	db	bb
15	2378-TCDF	1.05e2	7.54e1	1.80e2	30.56	1.39	YES	0.009	0.100	3.95e3	3575	1.1	2.64e3	3914	0.7	dd	bb
16	Total-tetrafurans	2.11e2	1.08e2	3.18e2	30.49	1.96	YES	0.016	0.100	5.58e3	3575	1.6	6.91e3	3914	1.8	bd	bb
17	Total-tetrafurans	1.57e2	2.83e2	4.40e2	30.16	0.55	YES	0.022	0.100	5.41e3	3575	1.5	6.13e3	3914	1.6	db	bb
18	Total-tetrafurans	2.72e2	8.44e1	3.56e2	29.86	3.22	YES	0.018	0.100	1.06e4	3575	3.0	2.54e3	3914	0.6	bb	bb
19	Total-tetrafurans	2.99e2	1.77e2	4.76e2	29.63	1.69	YES	0.023	0.100	1.26e4	3575	3.5	8.84e3	3914	2.3	bb	bb
20	Total-tetrafurans	3.57e2	1.53e2	5.09e2	29.35	2.33	YES	0.025	0.100	1.17e4	3575	3.3	7.94e3	3914	2.0	bd	db
21	Total-tetrafurans	6.72e1	3.66e2	4.33e2	29.29	0.18	YES	0.021	0.100	4.61e3	3575	1.3	1.33e4	3914	3.4	bb	dd
22	Total-tetrafurans	1.58e2	5.84e1	2.16e2	32.04	2.70	YES	0.011	0.100	4.74e3	3575	1.3	3.06e3	3914	0.8	db	bb
23	Total-tetrafurans	2.52e2	9.92e1	3.51e2	31.97	2.54	YES	0.017	0.100	1.15e4	3575	3.2	5.03e3	3914	1.3	bd	db

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans (F1)	9.08e1	6.56e1	1.56e2	32.32	1.38	NO	0.014	0.0366	4.12e3	1355	3.0	4.20e3	1599	2.6	bb	bb
2	Total-pentafurans (F1)	7.58e2	3.99e2	1.16e3	31.95	1.90	YES	0.105	0.0366	1.74e4	1355	12.8	7.94e3	1599	5.0	bb	bd
3	Total-pentafurans (F1)	5.22e1	6.24e1	1.15e2	31.49	0.84	YES	0.010	0.0366	2.76e3	1355	2.0	2.29e3	1599	1.4	bb	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5-11.qld

Last Altered: Tuesday, June 27, 2023 11:38:49 Eastern Daylight Time
Printed: Tuesday, June 27, 2023 10:49:26 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	5.71e1	5.21e1	1.09e2	34.15	1.10	YES	0.010	0.0956	5.53e3	4223	1.3	2.63e3	3488	0.8	bb	bd
2	Total-pentafurans	5.38e1	7.00e1	1.24e2	34.05	0.77	YES	0.011	0.0956	5.21e3	4223	1.2	2.68e3	3488	0.8	bb	db
3	23478-PeCDF	2.68e2	1.81e2	4.49e2	33.99	1.49	NO	0.039	0.0931	1.36e4	4223	3.2	8.33e3	3488	2.4	bb	bd
4	Total-pentafurans	9.24e1	1.24e2	2.16e2	33.55	0.75	YES	0.020	0.0956	2.80e3	4223	0.7	3.71e3	3488	1.1	bb	bb
5	Total-pentafurans	6.72e1	9.26e1	1.60e2	33.38	0.73	YES	0.014	0.0956	4.84e3	4223	1.1	3.27e3	3488	0.9	db	db
6	12378-PeCDF	9.49e1	1.50e2	2.45e2	33.36	0.63	YES	0.023	0.0984	3.17e3	4223	0.8	4.47e3	3488	1.3	bd	bd
7	Total-pentafurans	7.53e1	5.49e1	1.30e2	33.25	1.37	NO	0.012	0.0956	2.78e3	4223	0.7	4.71e3	3488	1.4	bb	db
8	Total-pentafurans	9.22e1	9.77e1	1.90e2	33.05	0.94	YES	0.017	0.0956	5.42e3	4223	1.3	8.33e3	3488	2.4	bb	bd
9	Total-pentafurans	1.05e2	1.95e2	3.00e2	32.86	0.54	YES	0.027	0.0956	5.70e3	4223	1.4	7.47e3	3488	2.1	dd	db
10	Total-pentafurans	1.92e2	9.70e1	2.89e2	32.81	1.98	YES	0.026	0.0956	8.86e3	4223	2.1	5.49e3	3488	1.6	dd	dd
11	Total-pentafurans	2.27e2	5.10e1	2.78e2	32.77	4.46	YES	0.025	0.0956	7.32e3	4223	1.7	3.10e3	3488	0.9	dd	bd
12	Total-pentafurans	8.69e1	1.40e2	2.27e2	32.72	0.62	YES	0.021	0.0956	5.09e3	4223	1.2	9.81e3	3488	2.8	bd	db
13	Total-pentafurans	7.77e1	1.93e2	2.70e2	32.60	0.40	YES	0.024	0.0956	4.08e3	4223	1.0	4.51e3	3488	1.3	bb	bd
14	Total-pentafurans	5.79e1	6.94e1	1.27e2	34.53	0.83	YES	0.012	0.0956	4.12e3	4223	1.0	3.23e3	3488	0.9	bd	bb
15	Total-pentafurans	7.02e1	8.52e1	1.55e2	34.37	0.82	YES	0.014	0.0956	3.98e3	4223	0.9	5.21e3	3488	1.5	db	bb
16	Total-pentafurans	5.92e1	6.94e1	1.29e2	34.34	0.85	YES	0.012	0.0956	2.41e3	4223	0.6	2.87e3	3488	0.8	bd	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	5.40e1	5.79e1	1.12e2	36.94	0.93	YES	0.014	0.0889	3.31e3	2318	1.4	4.16e3	1893	2.2	bb	bb
2	234678-HxCDF	1.05e2	1.33e2	2.38e2	36.66	0.79	YES	0.028	0.0840	4.78e3	2318	2.1	5.02e3	1893	2.7	db	bb
3	Total-hexafurans	1.23e2	8.62e1	2.10e2	36.14	1.43	YES	0.026	0.0889	3.70e3	2318	1.6	4.03e3	1893	2.1	bb	bb
4	Total-hexafurans	2.08e2	3.51e2	5.58e2	35.69	0.59	YES	0.069	0.0889	8.72e3	2318	3.8	8.52e3	1893	4.5	db	MM
5	Total-hexafurans	7.76e2	7.19e2	1.50e3	35.26	1.08	NO	0.185	0.0889	1.91e4	2318	8.2	1.37e4	1893	7.2	MM	MM
6	Total-hexafurans	3.92e2	2.21e2	6.13e2	35.13	1.78	YES	0.076	0.0889	6.17e3	2318	2.7	4.29e3	1893	2.3	MM	MM

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5-11.qld

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Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptafurans	1.18e2	5.29e1	1.71e2	40.74	2.24	YES	0.018	0.164	1.04e4	4311	2.4	4.64e3	3365	1.4	bb	bb
2	Total-heptafurans	1.40e3	9.77e2	2.38e3	39.52	1.44	YES	0.253	0.164	1.66e4	4311	3.9	1.41e4	3365	4.2	MM	MM
3	1234678-HpCDF	1.27e3	8.52e2	2.12e3	38.88	1.49	YES	0.215	0.145	2.86e4	4311	6.6	1.65e4	3365	4.9	MM	MM

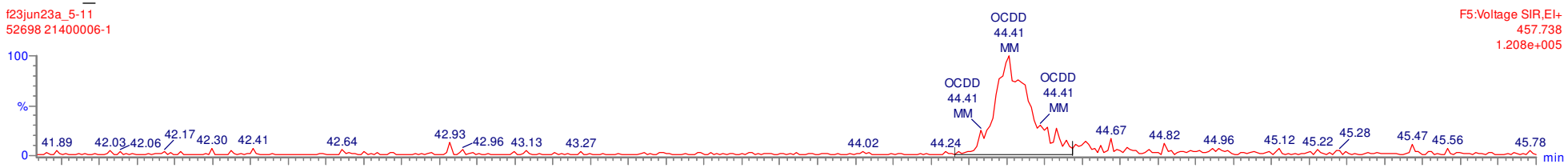
Reasons for Analyst Intervention

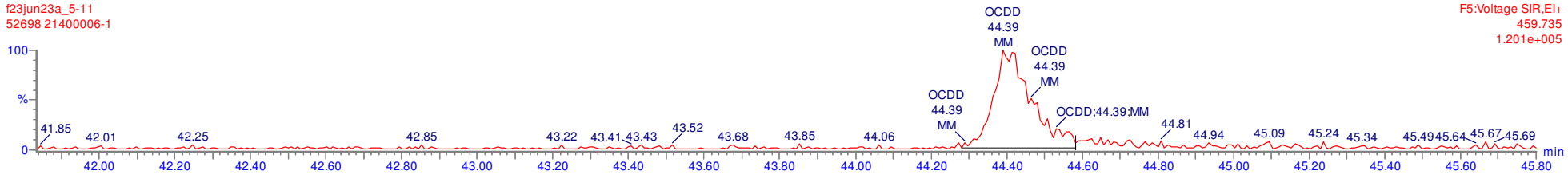
Name:f23jun23a_5-11, ID:21400006-1, Description: 52698

M	M2
5 Total-hexadioxins 36.26 - AB	
1 1234678-HpCDD 40.17 - AB	1 1234678-HpCDD 40.17 - AB
3 Total-heptadioxins 39.25 - AB	3 Total-heptadioxins 39.25 - AB
	4 Total-hexafurans 35.69 - AB
5 Total-hexafurans 35.26 - AB	5 Total-hexafurans 35.26 - AB
6 Total-hexafurans 35.13 - AB	6 Total-hexafurans 35.13 - AB
2 Total-heptafurans 39.52 - AB	2 Total-heptafurans 39.52 - AB
3 1234678-HpCDF 38.88 - AB	3 1234678-HpCDF 38.88 - AB

Reason Codes assigned by MW1 on 27-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2





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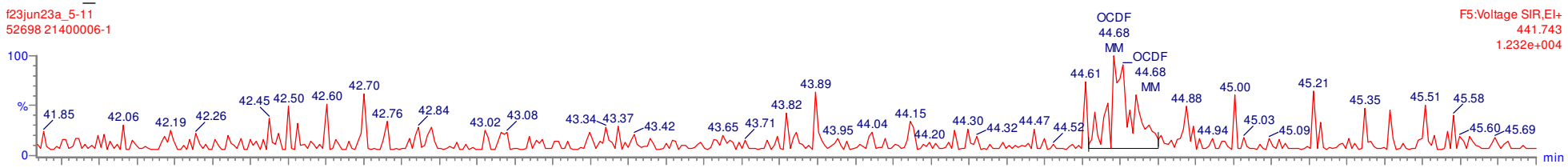
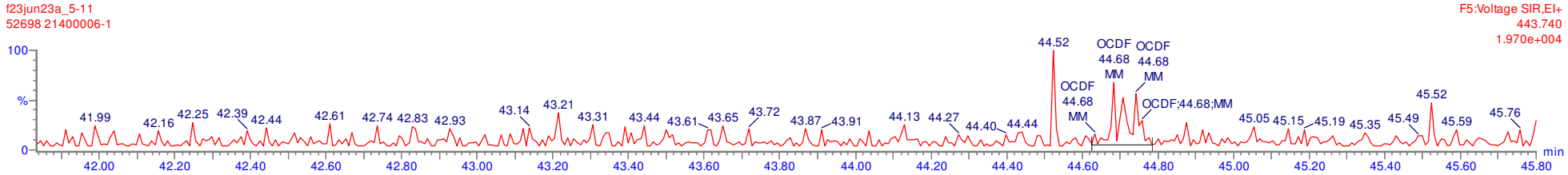
MANUAL INTEGRATION
METHOD 1613
HRP722_2





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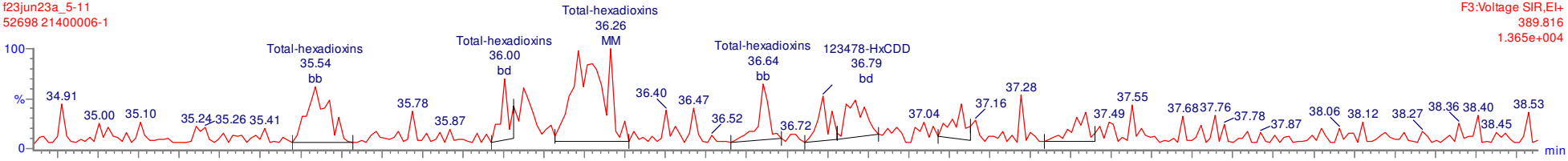
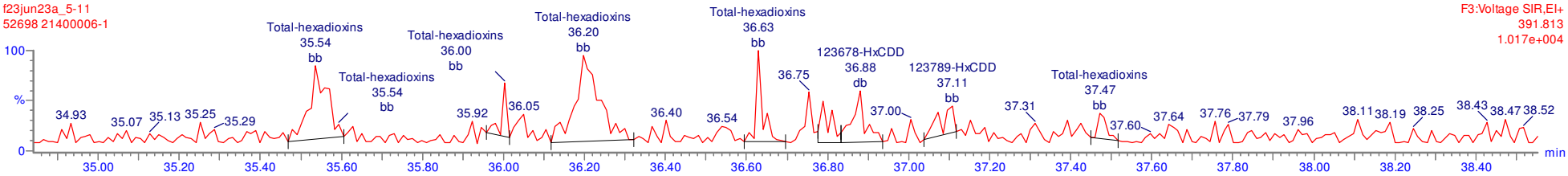
MANUAL INTEGRATION
METHOD 1613
HRP722_2





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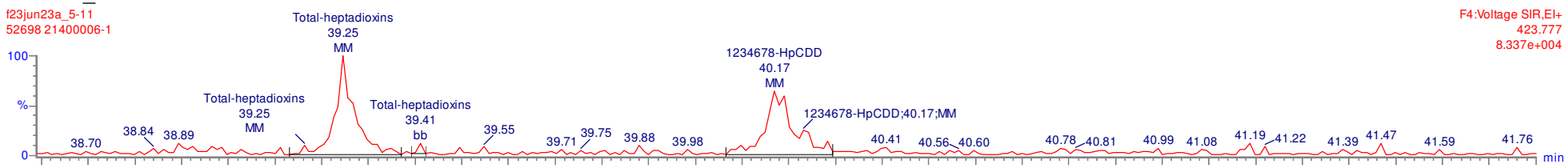
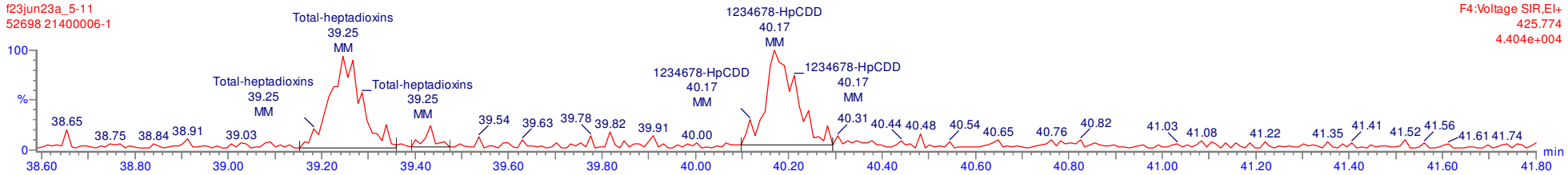
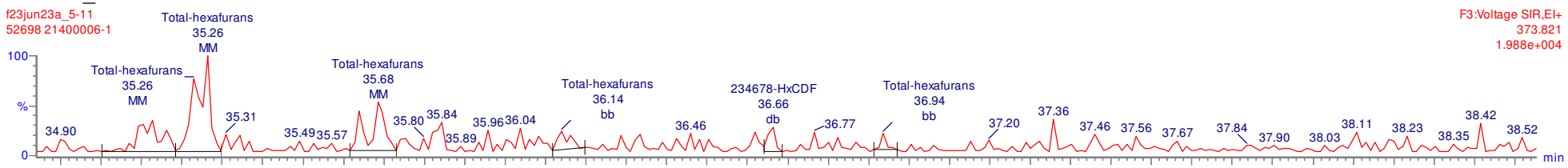
MANUAL INTEGRATION
METHOD 1613
HRP722_2

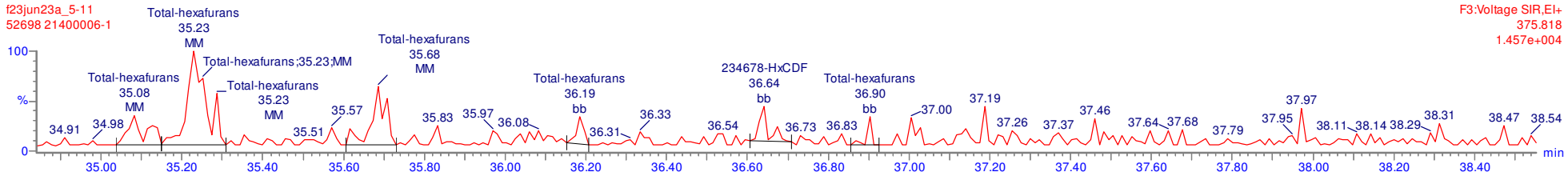




06/27/2023 06/28/2023

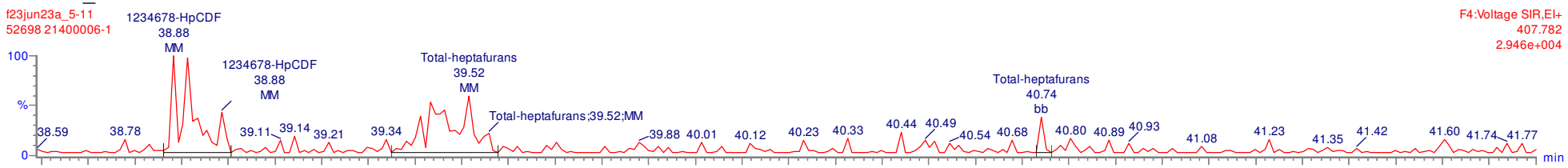
MANUAL INTEGRATION
METHOD 1613
HRP722_2

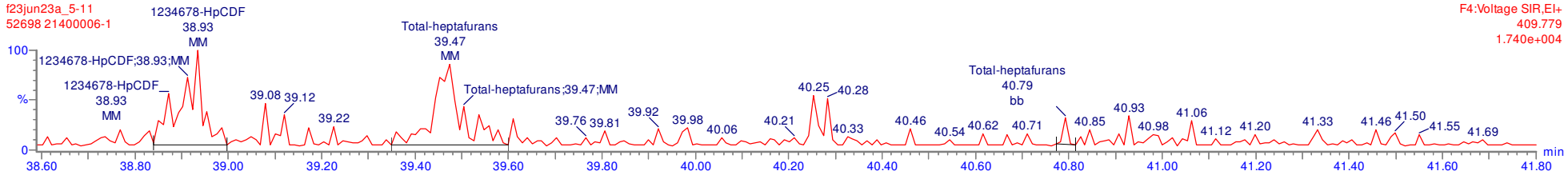




06/27/2023 06/28/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/27/2023 06/28/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW
06/27/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

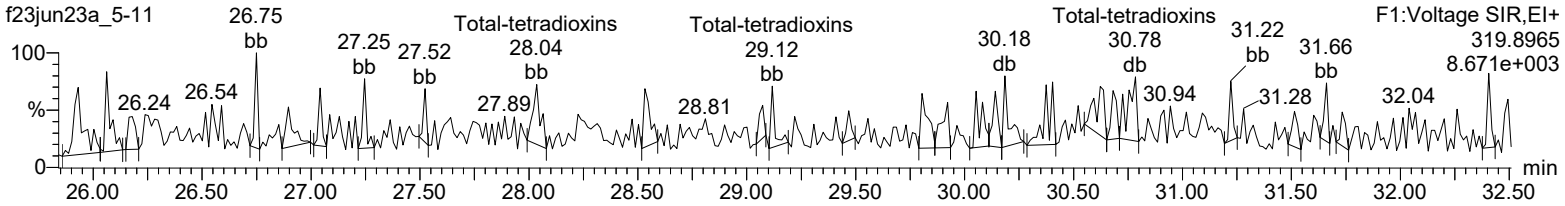
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

AMA
06/28/2023

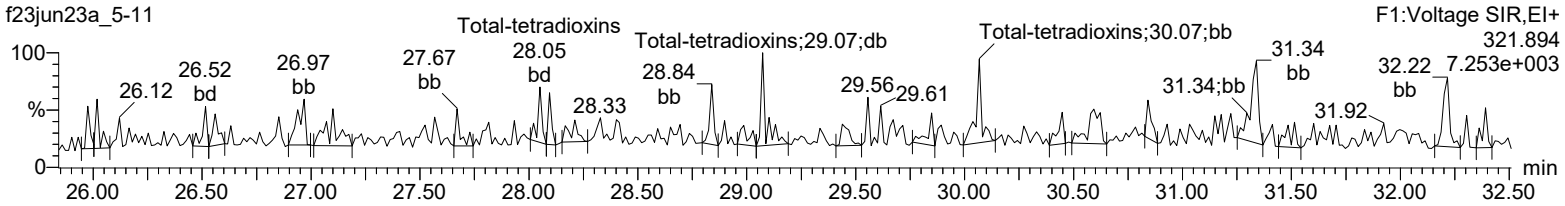
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

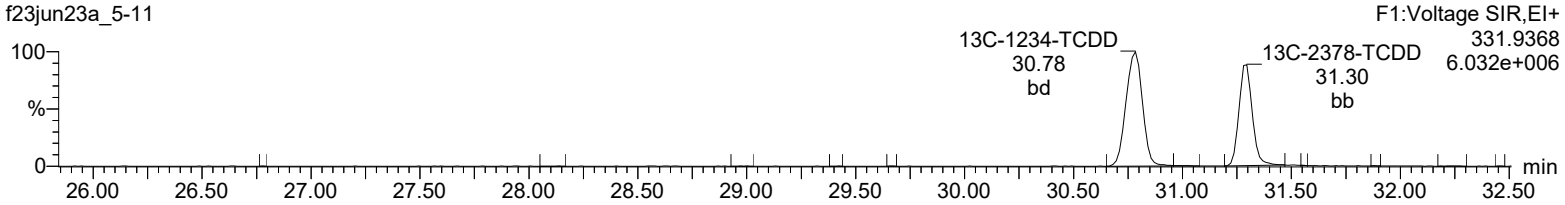
Total-tetradioxins



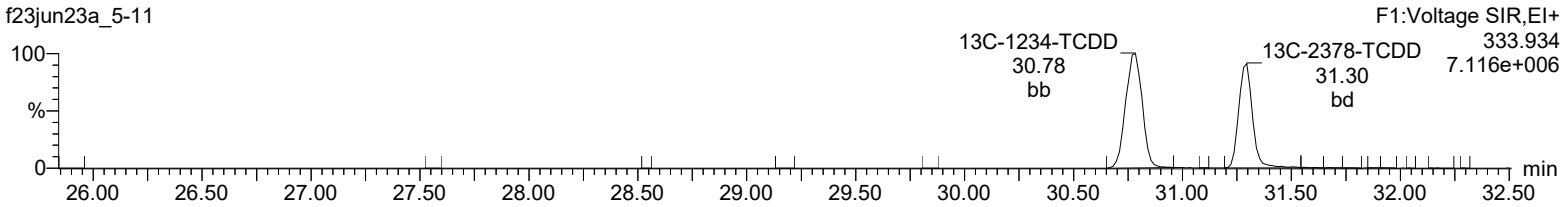
Total-tetradioxins



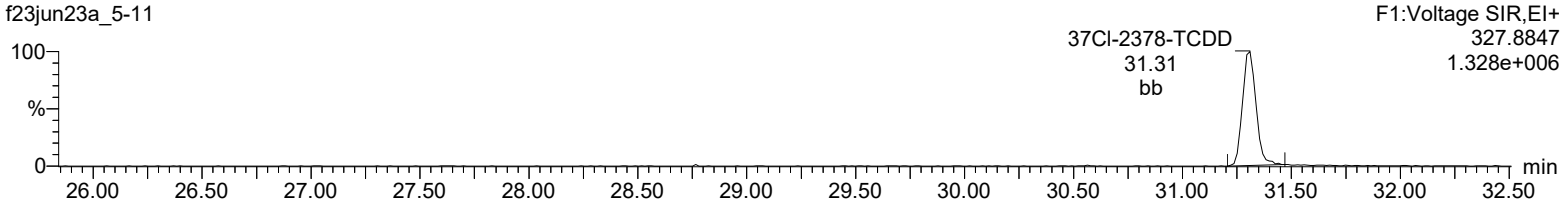
13C-2378-TCDD



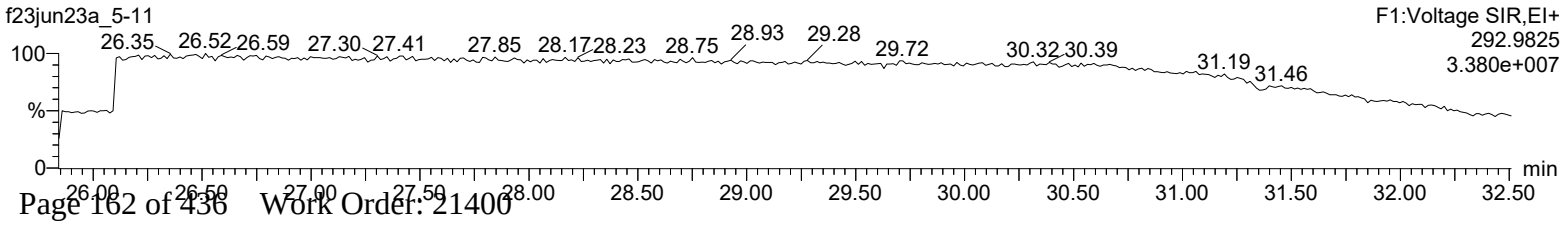
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



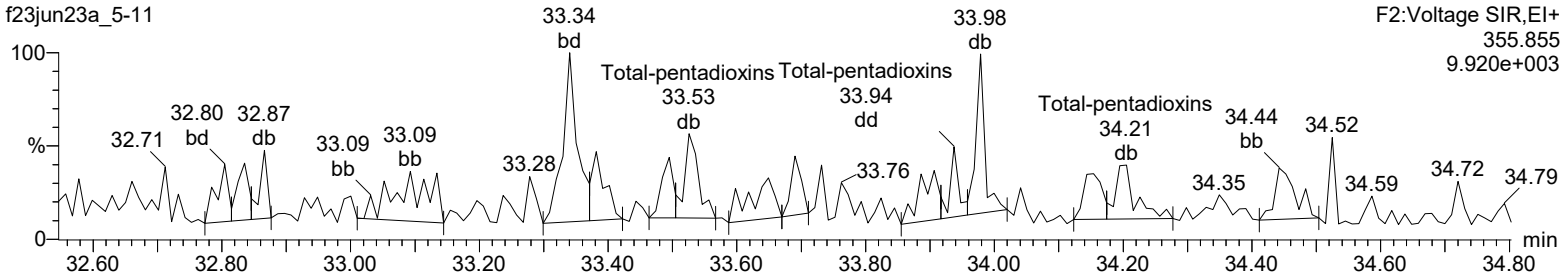
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

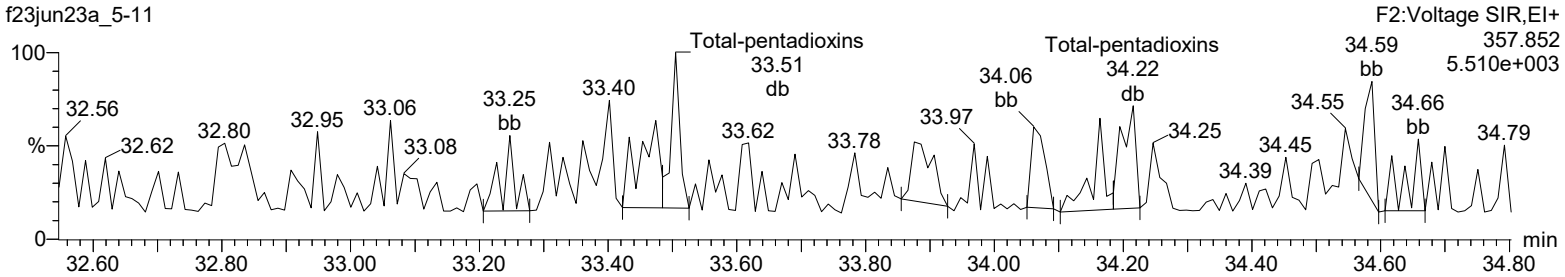
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

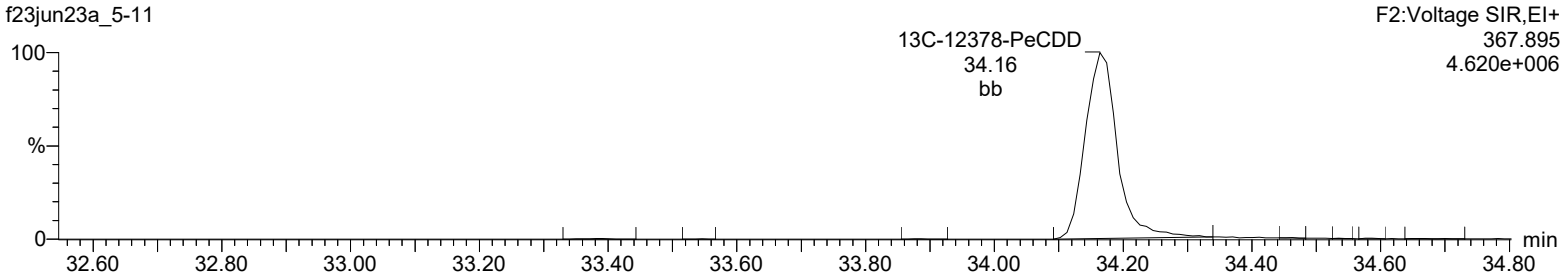
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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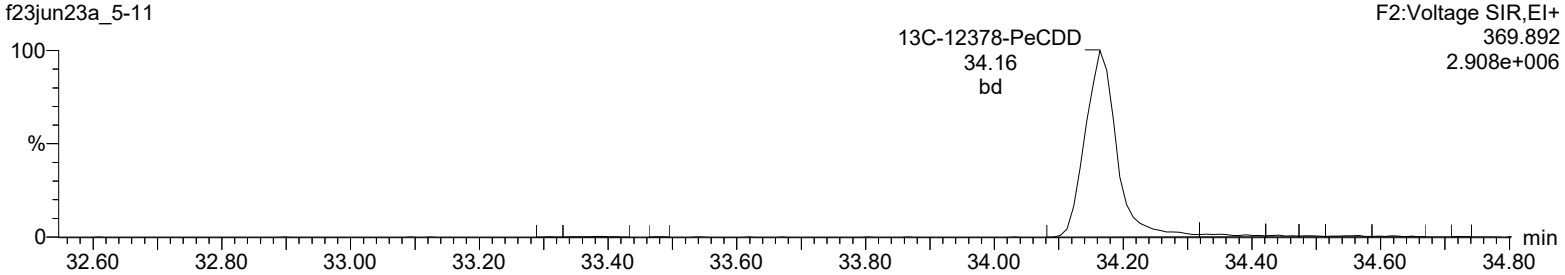
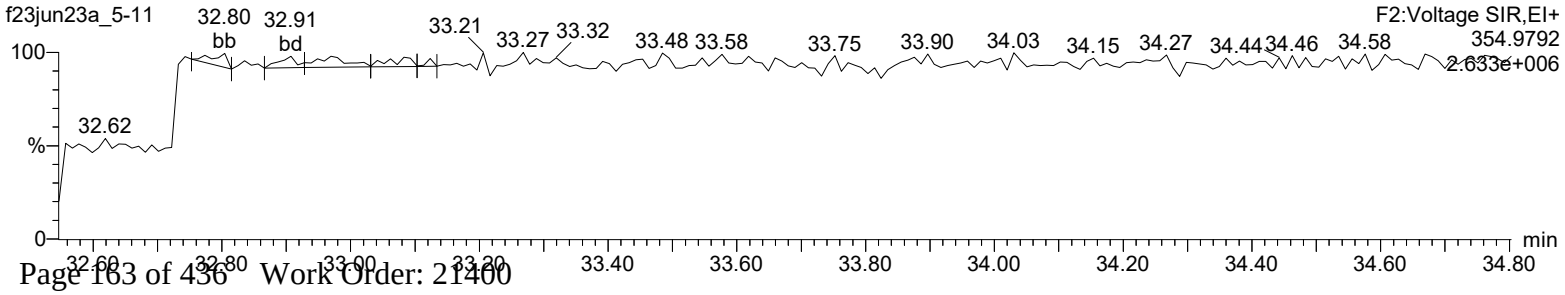


Lock Mass F2



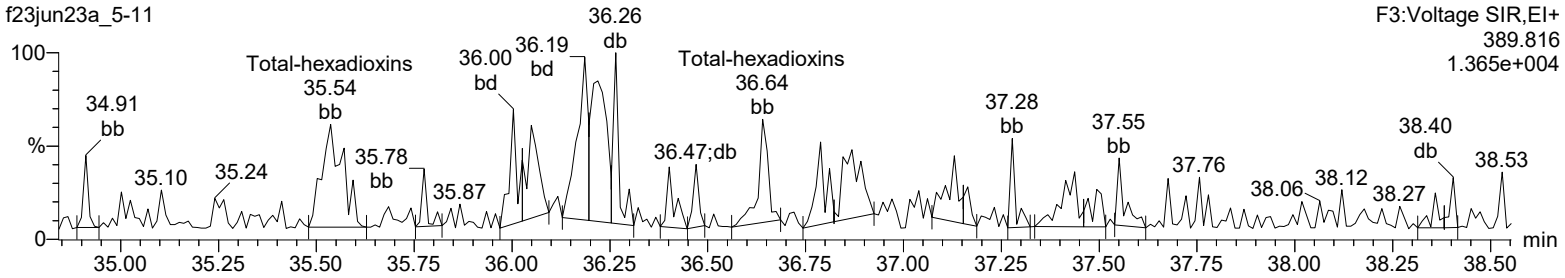
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

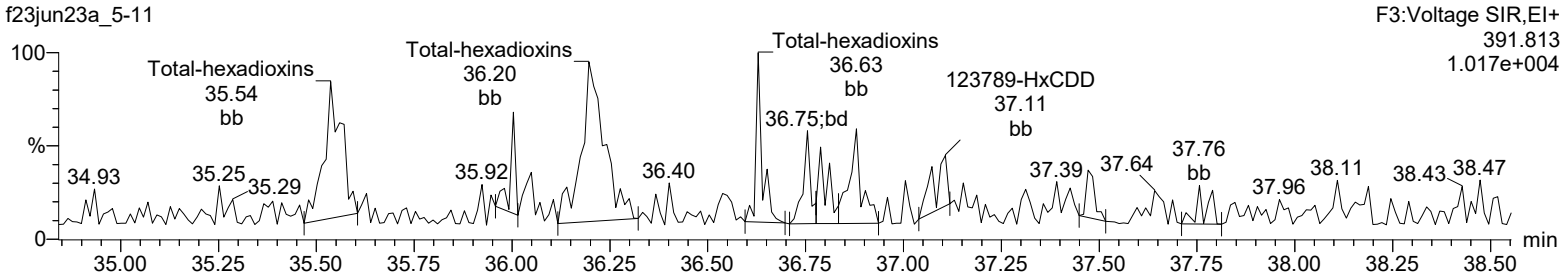
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

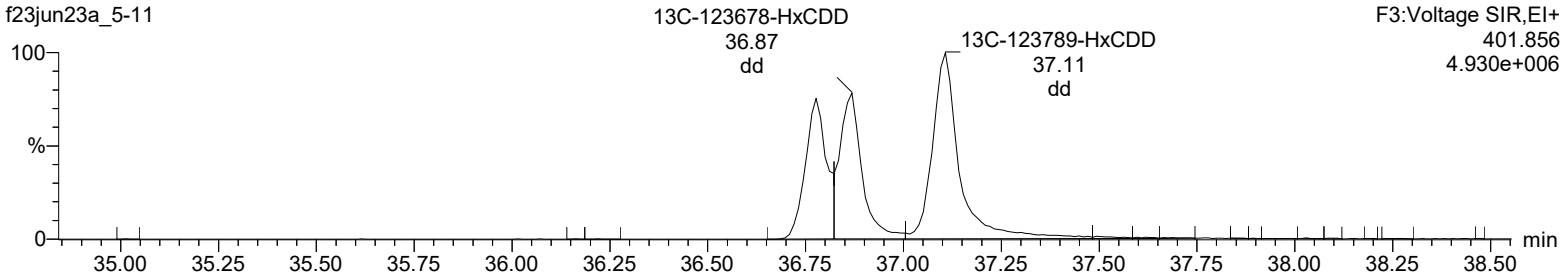
Total-hexadioxins



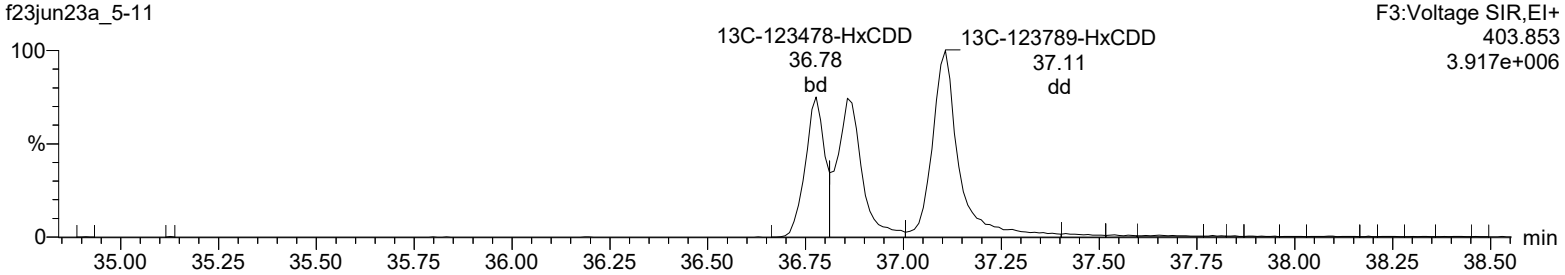
Total-hexadioxins



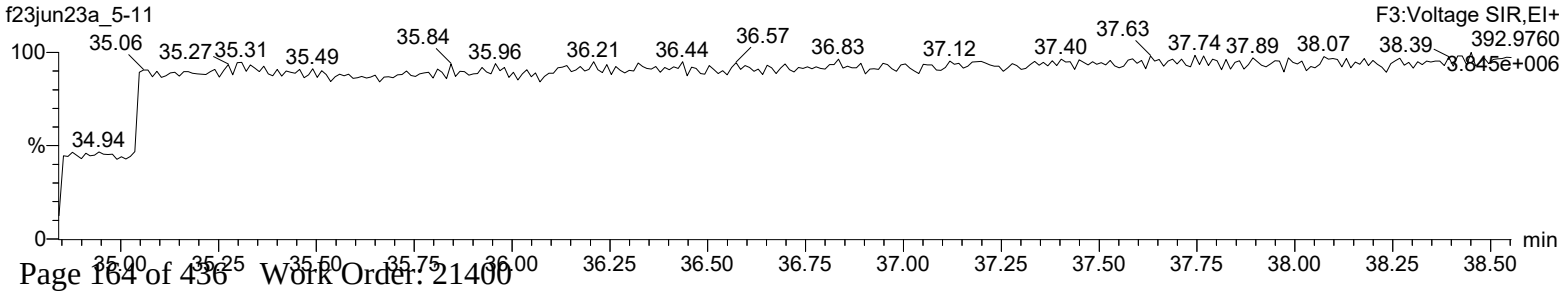
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



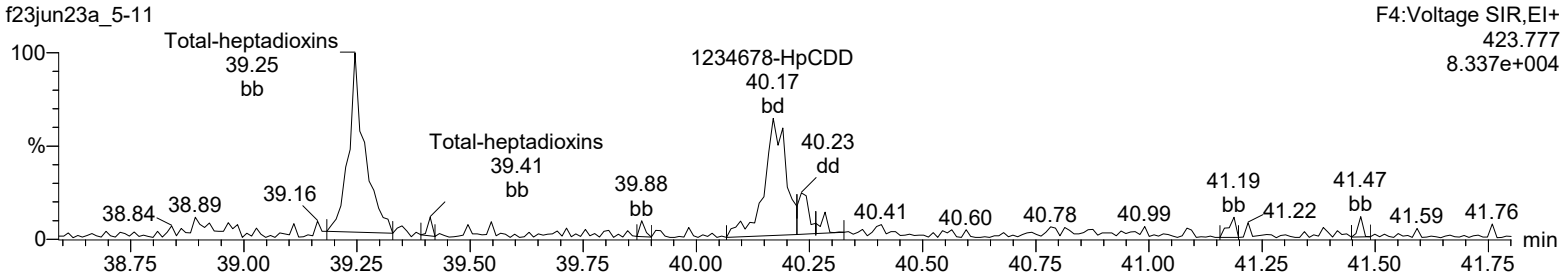
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

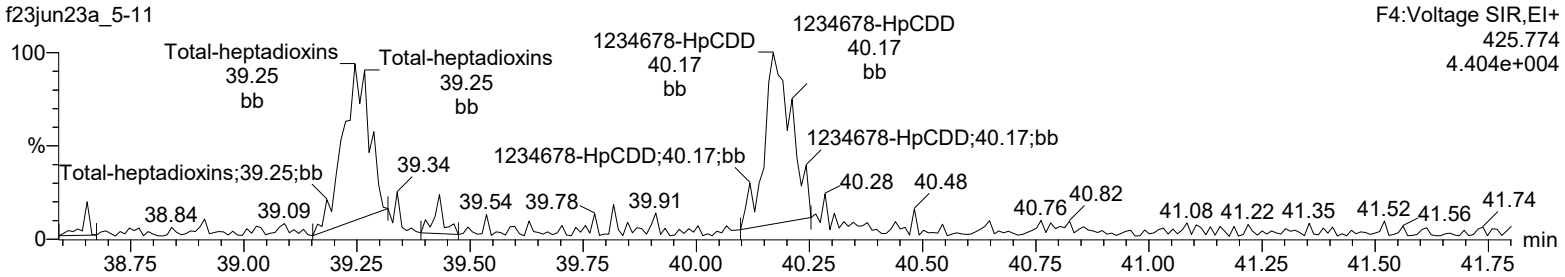
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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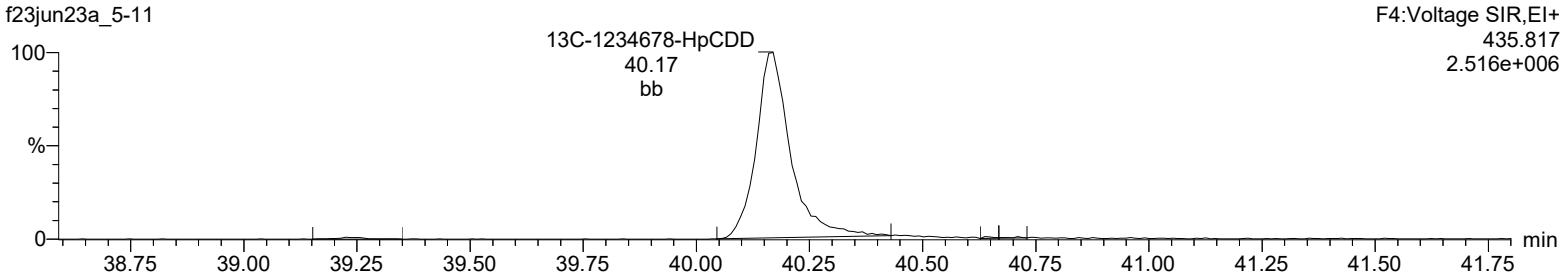

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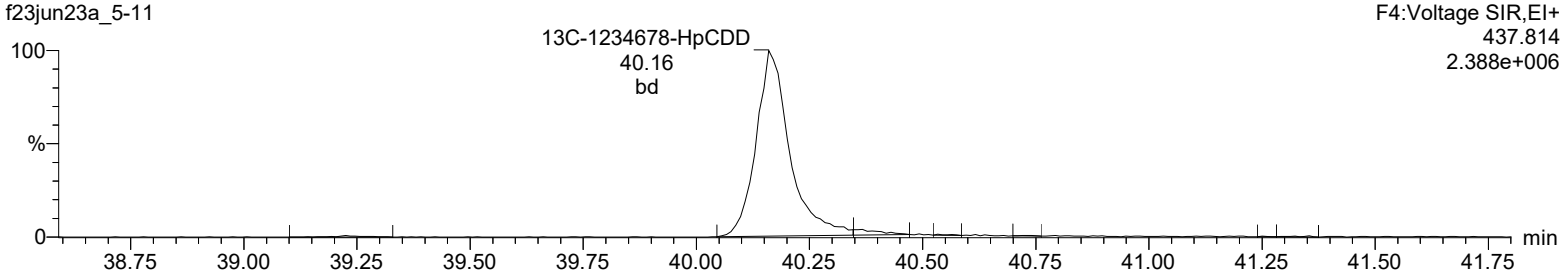
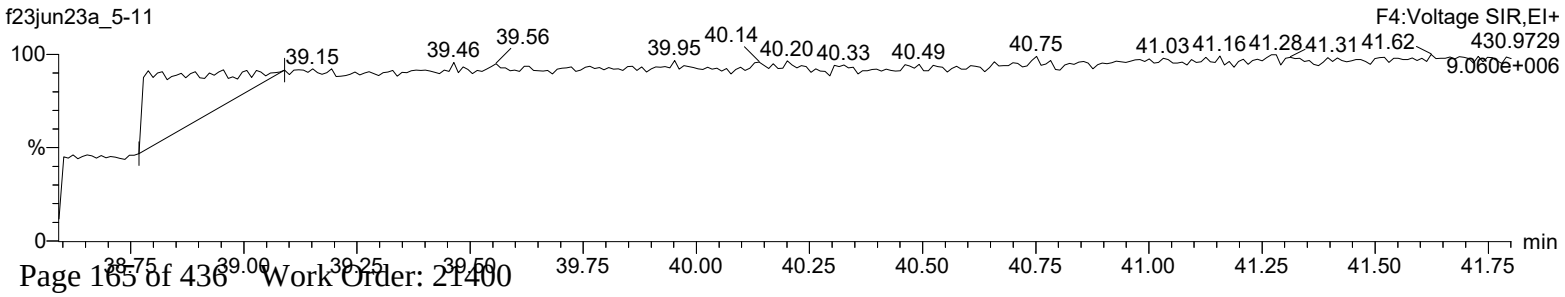


Lock Mass F4



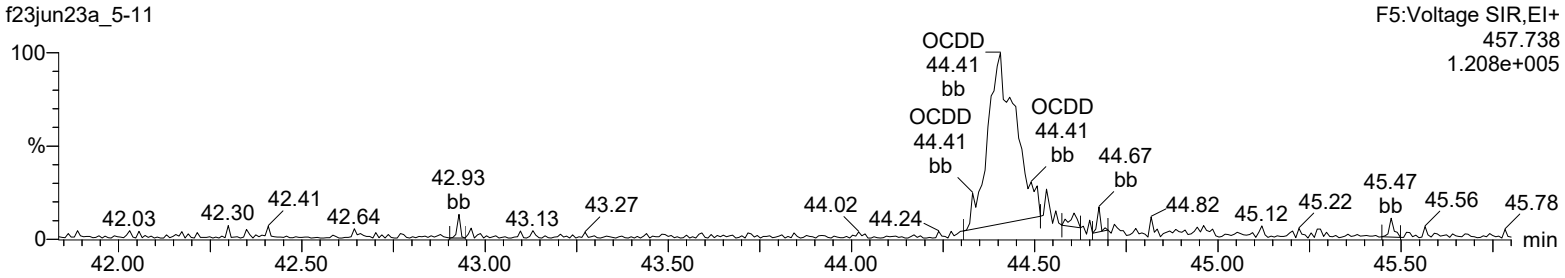
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

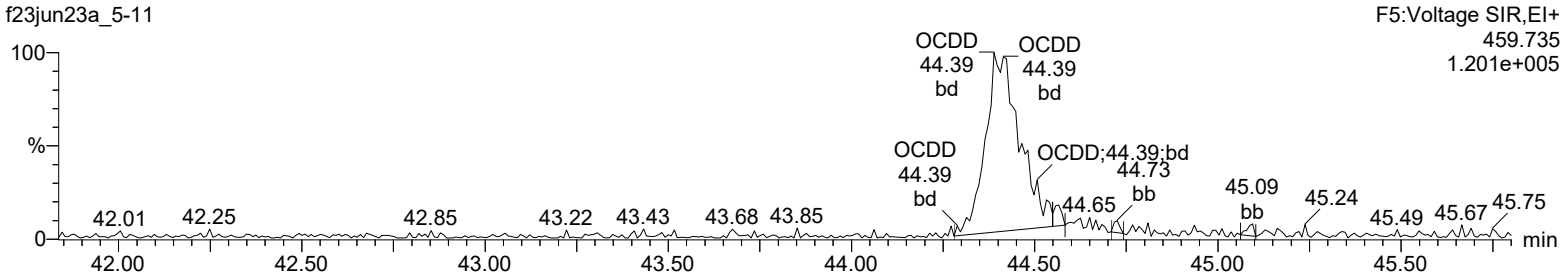
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

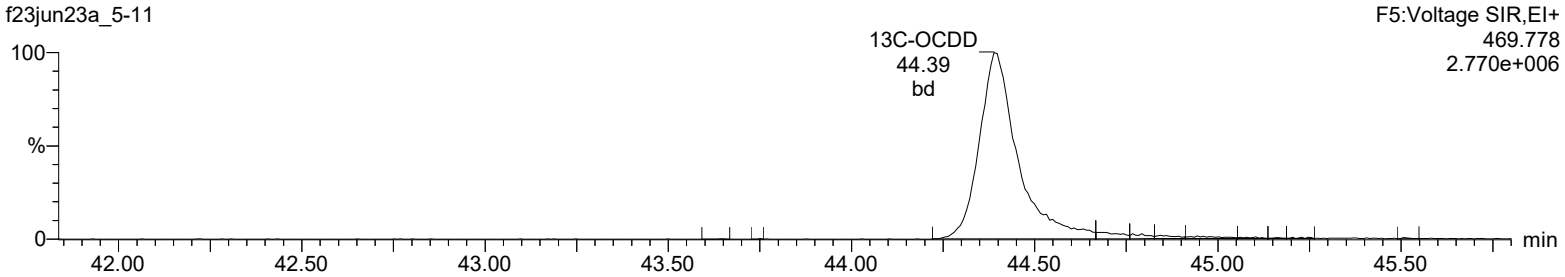
OCDD



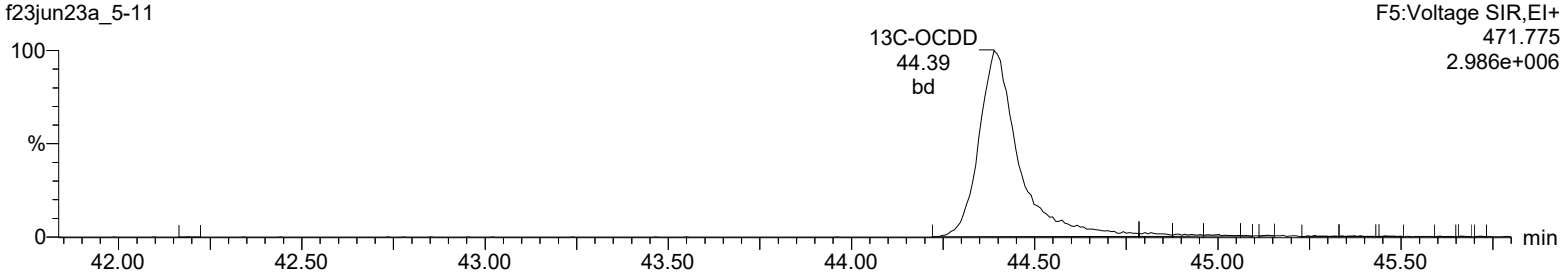
OCDD



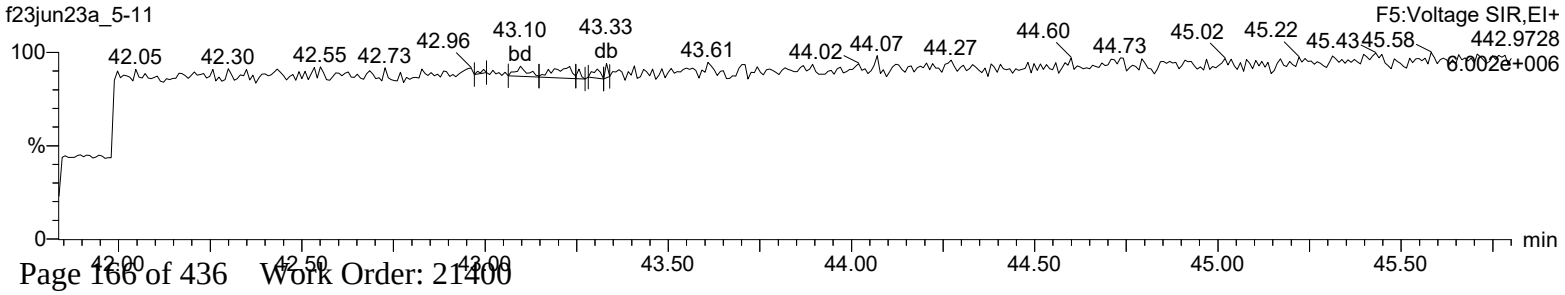
13C-OCDD



13C-OCDD



Lock Mass F5



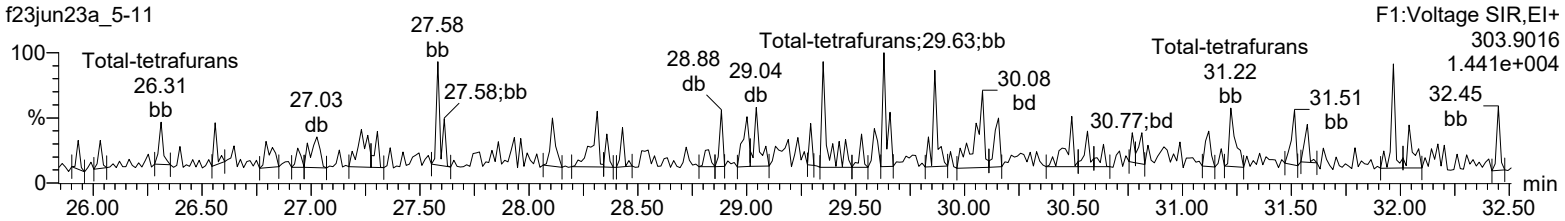
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

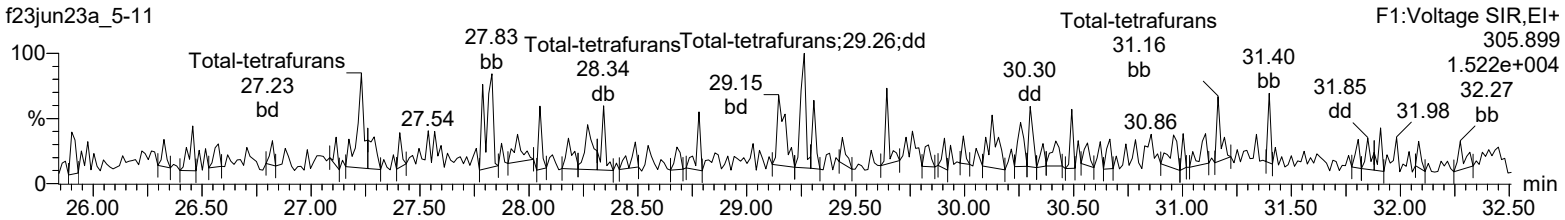
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

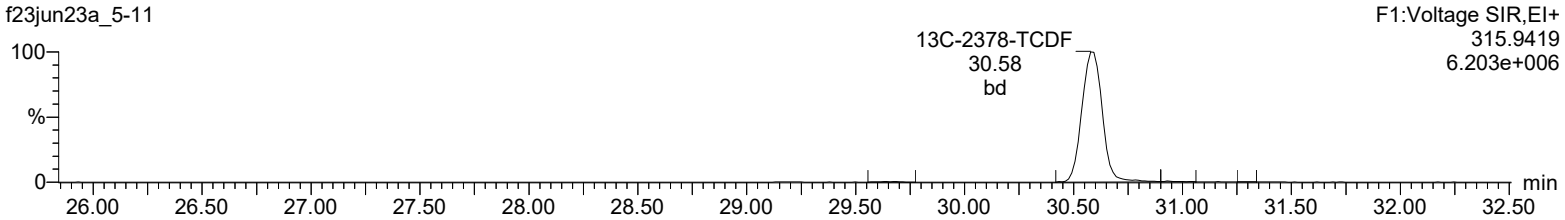
Total-tetrafurans



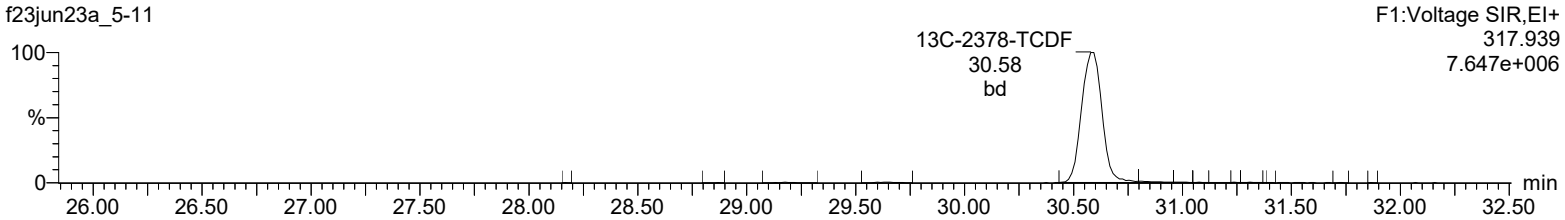
Total-tetrafurans



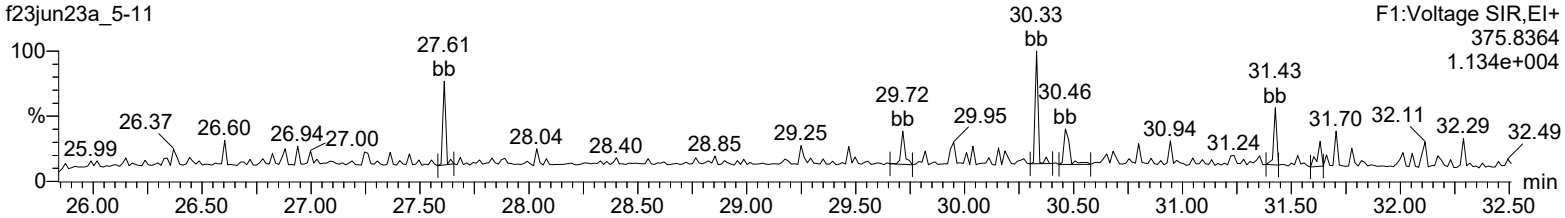
13C-2378-TCDF



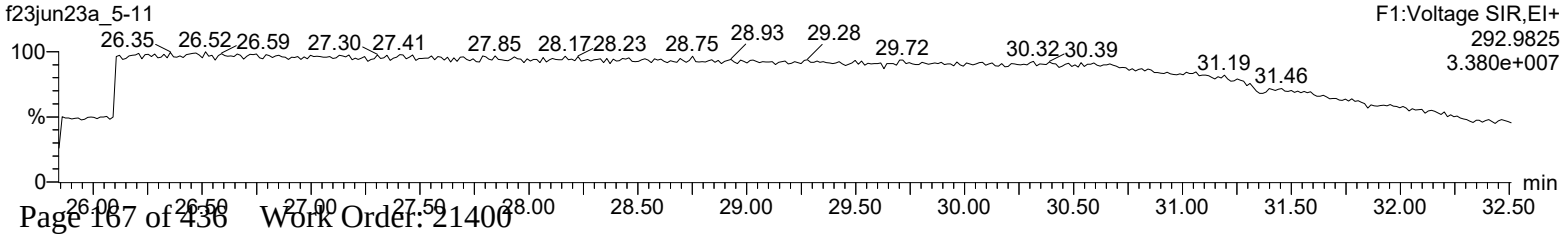
13C-2378-TCDF



HxDPE



Lock Mass F1



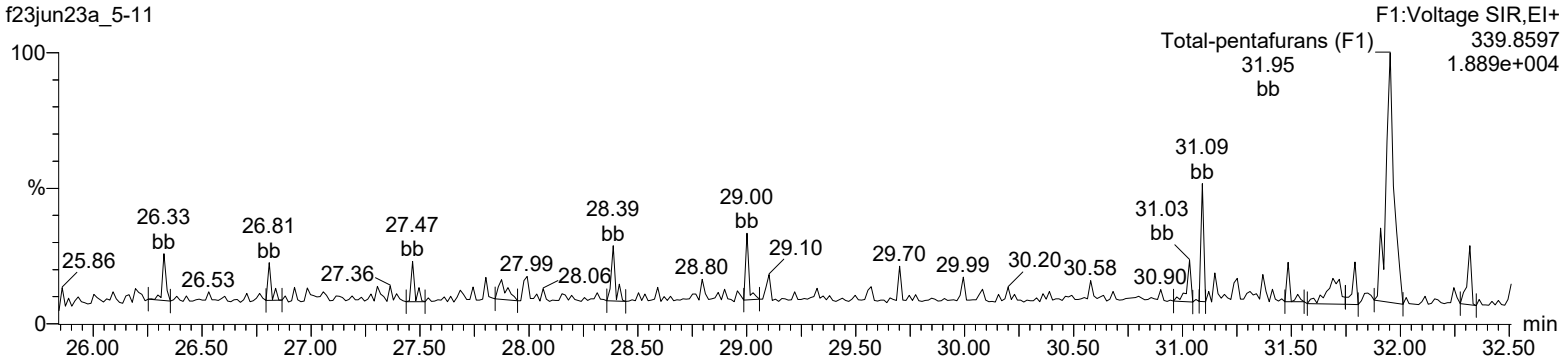
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

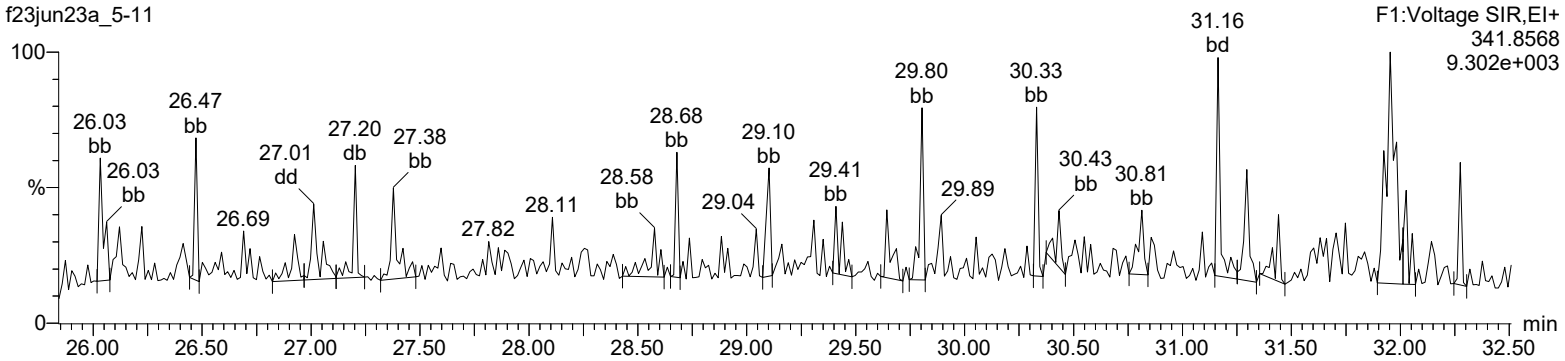
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

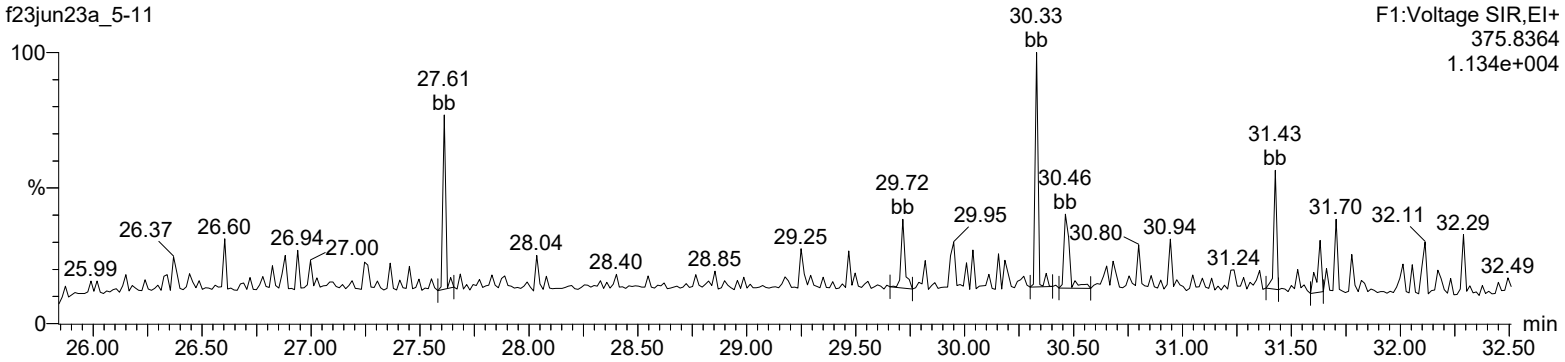
Total-pentafurans (F1)



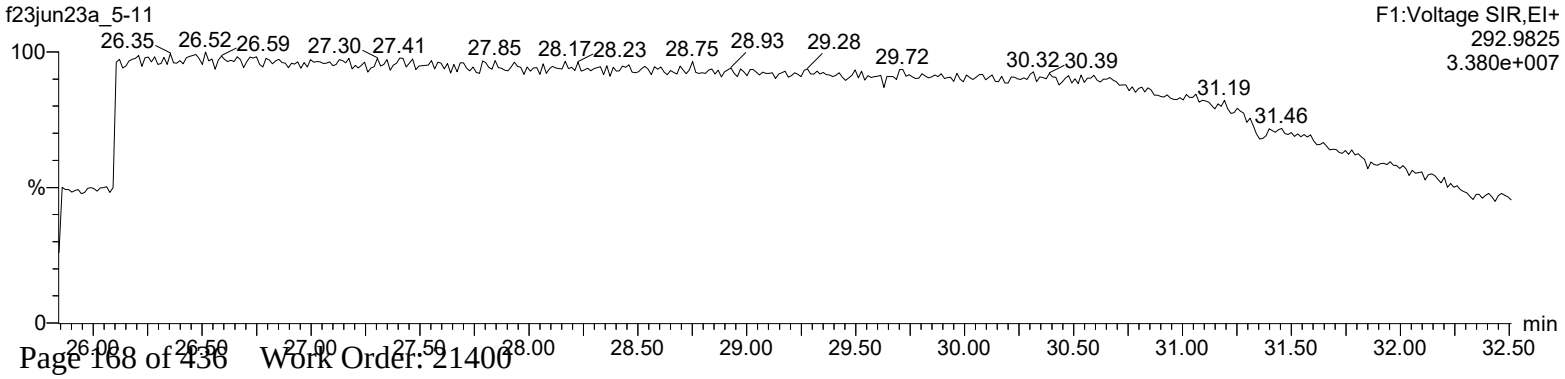
Total-pentafurans (F1)



HxDPE



Lock Mass F1



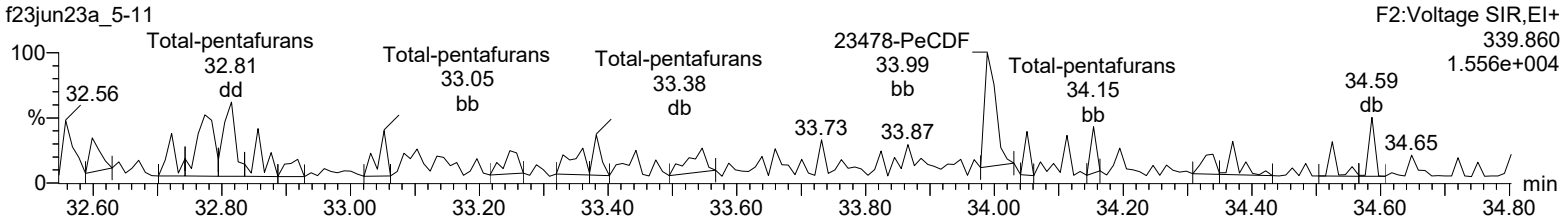
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

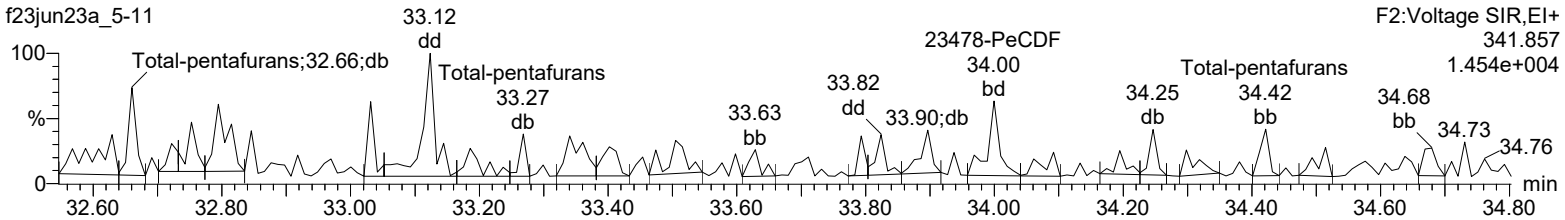
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

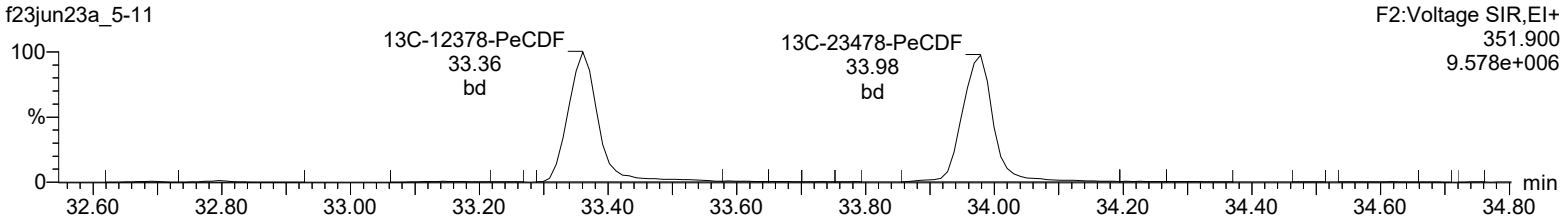
Total-pentafurans



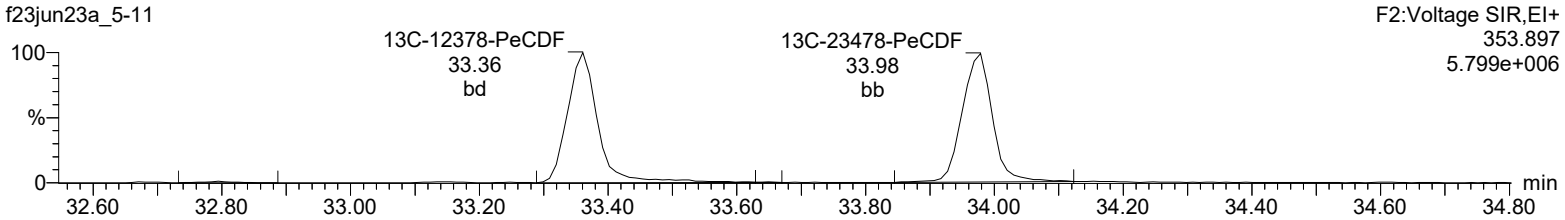
Total-pentafurans



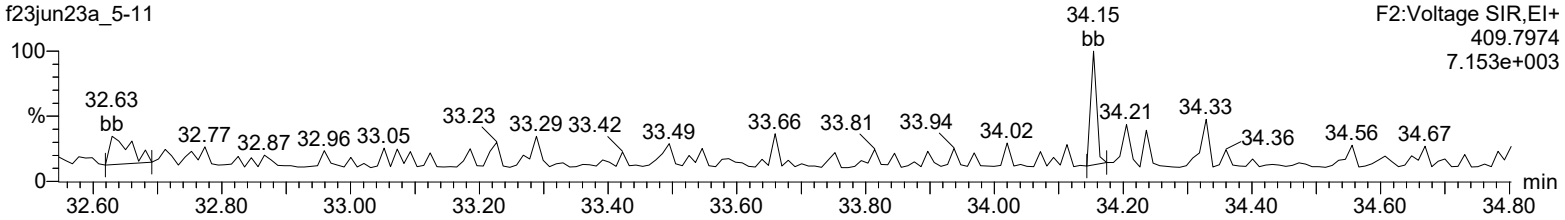
13C-12378-PeCDF



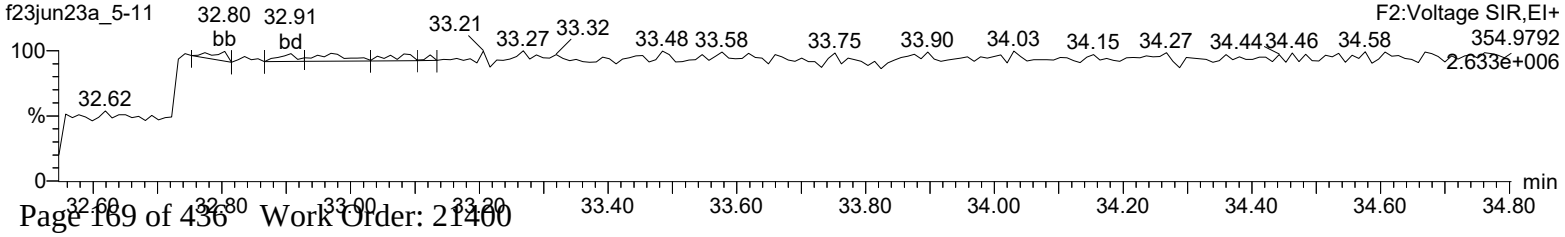
13C-12378-PeCDF



HpDPE



Lock Mass F2



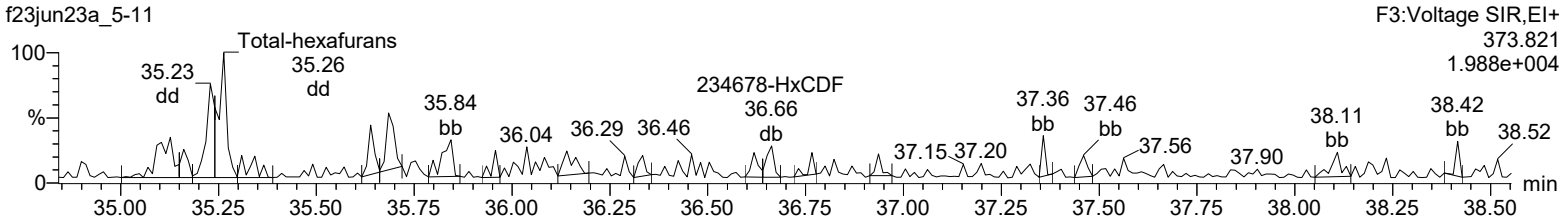
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

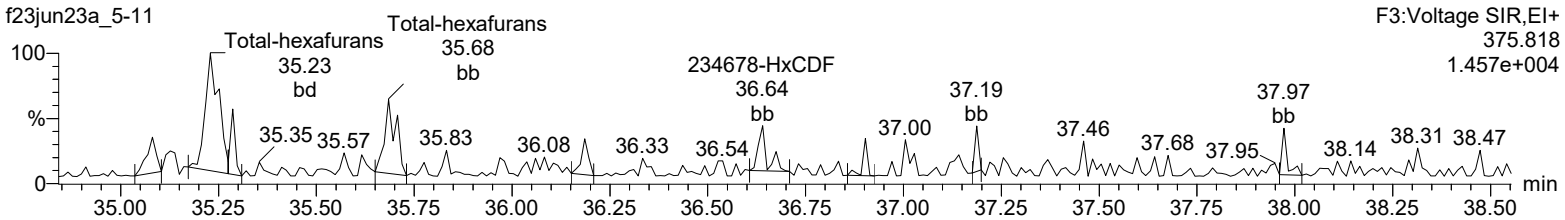
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

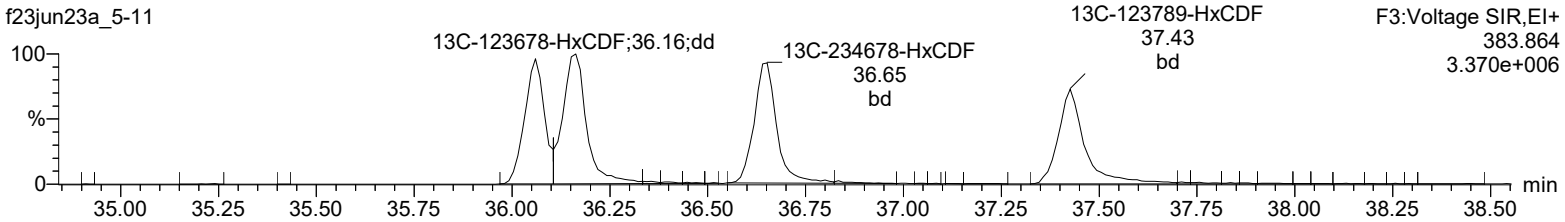
Total-hexafurans



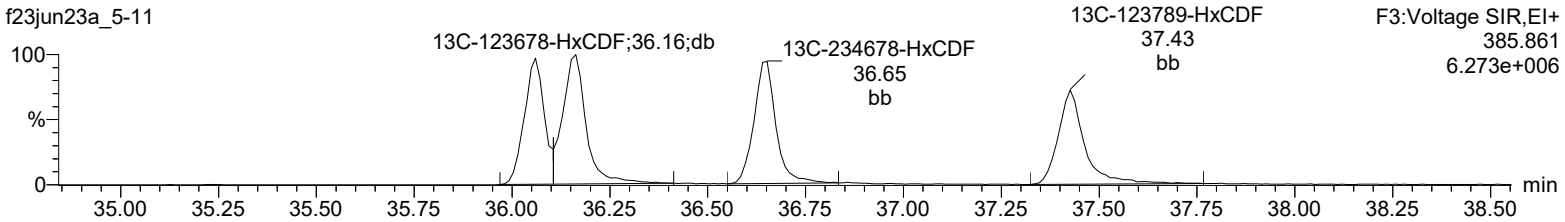
Total-hexafurans



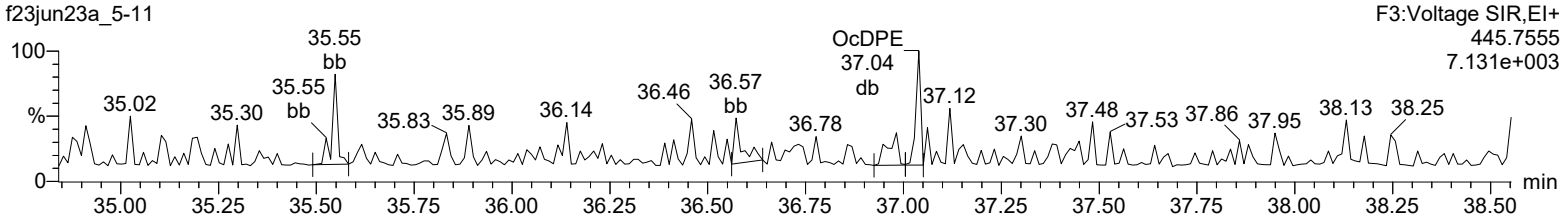
13C-123478-HxCDF



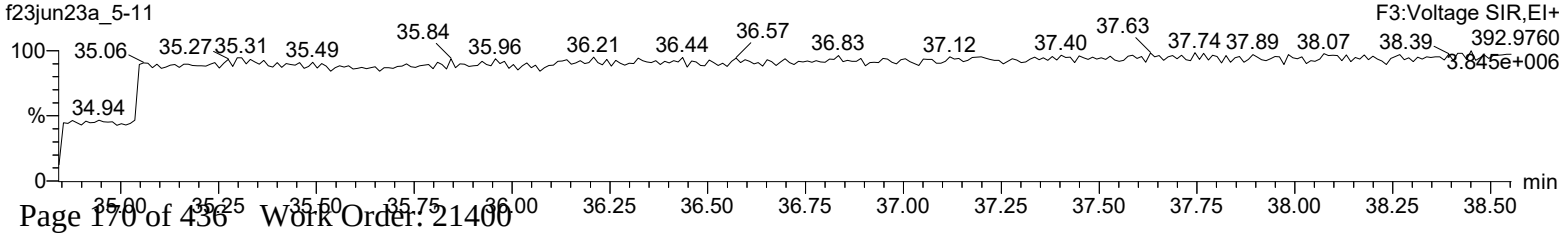
13C-123478-HxCDF



OcDPE



Lock Mass F3



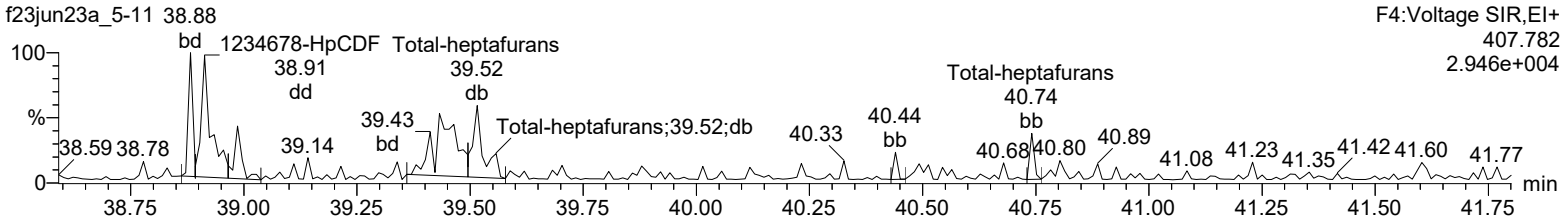
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

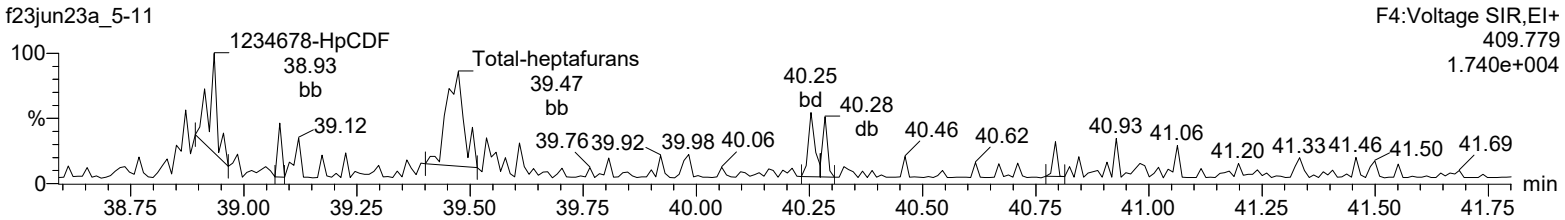
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

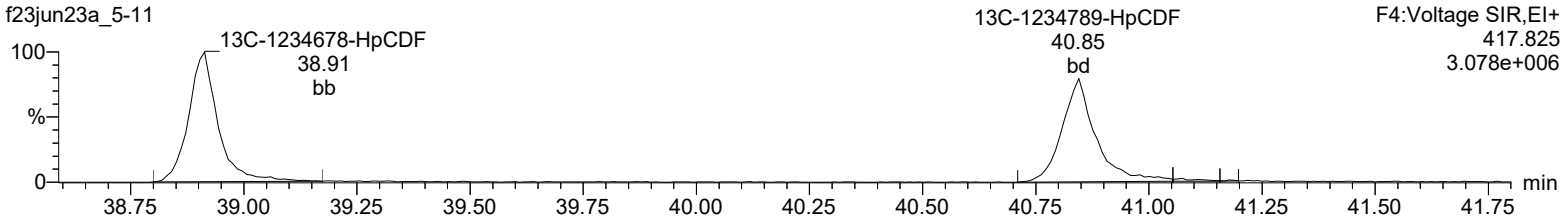
Total-heptafurans



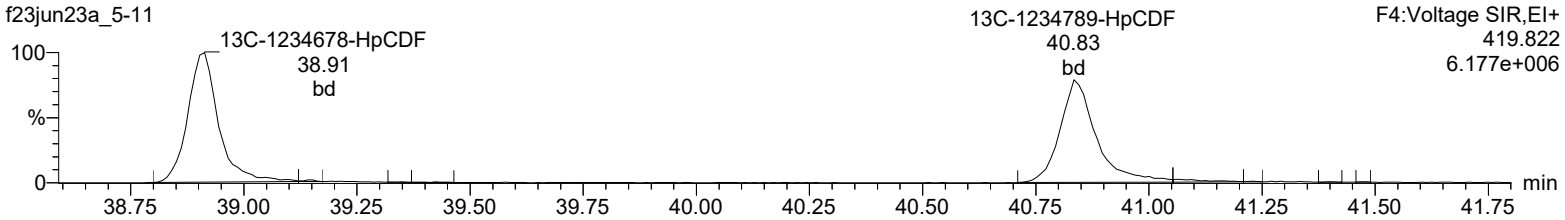
Total-heptafurans



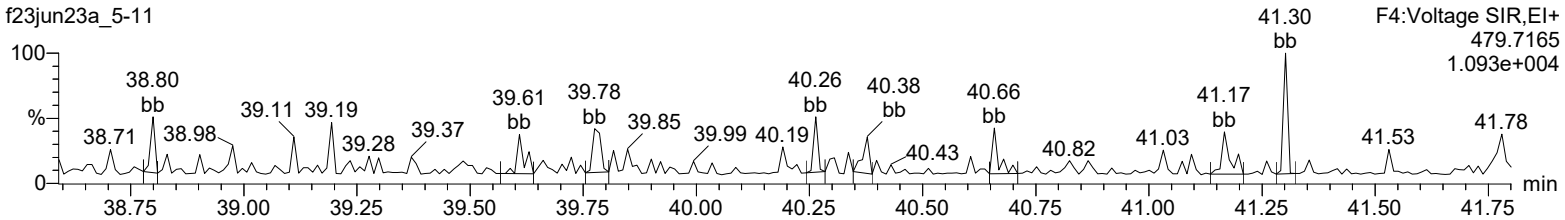
13C-1234678-HpCDF



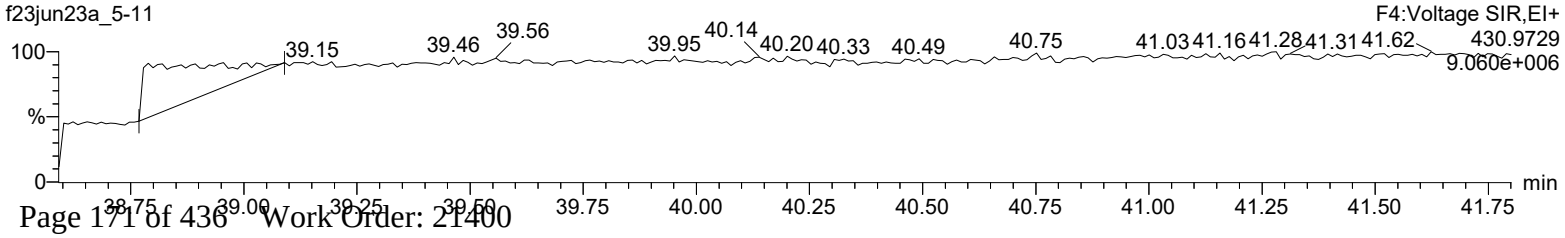
13C-1234678-HpCDF



NoDPE



Lock Mass F4



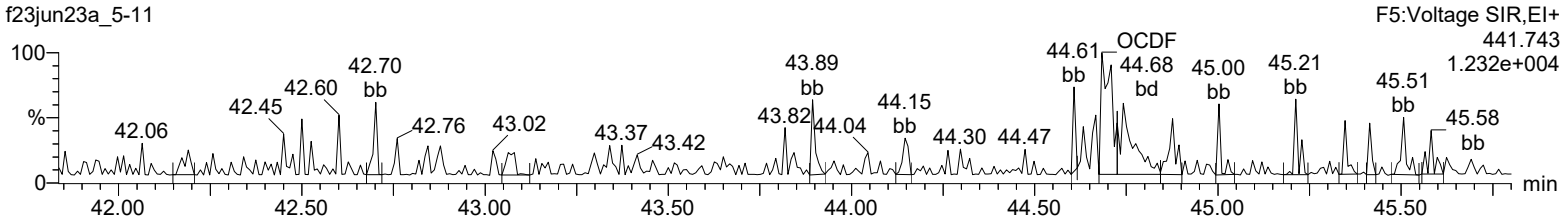
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_5(11-13).qld

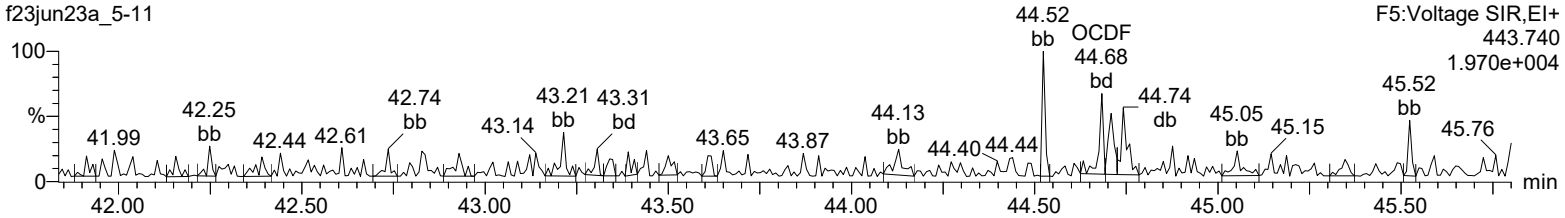
Last Altered: Monday, June 26, 2023 12:00:53 Eastern Daylight Time
Printed: Monday, June 26, 2023 12:03:21 Eastern Daylight Time

Name: f23jun23a_5-11, Date: 25-Jun-2023, Time: 15:59:38, ID: 21400006-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

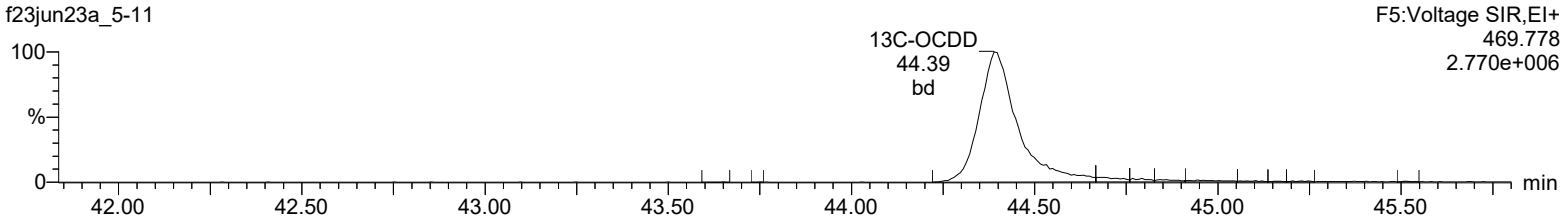
OCDF



OCDF



13C-OCDD



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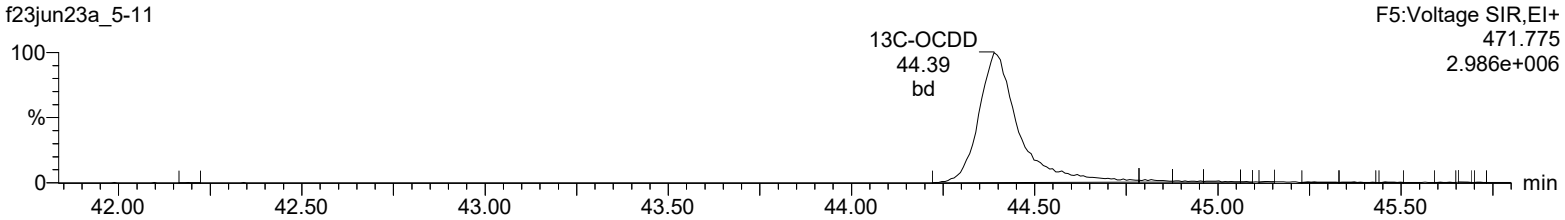
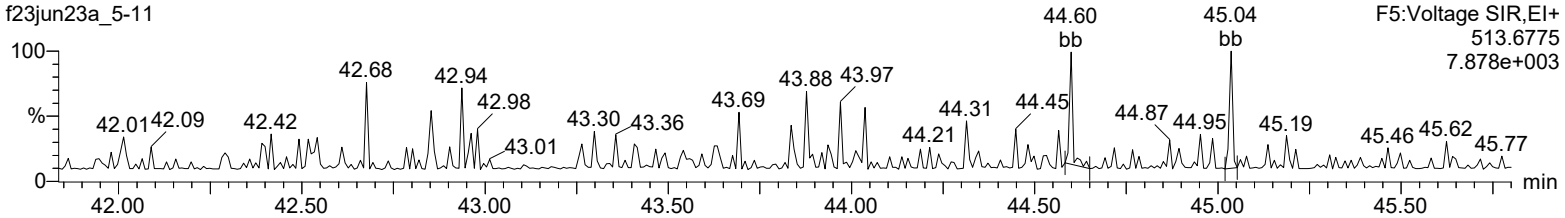
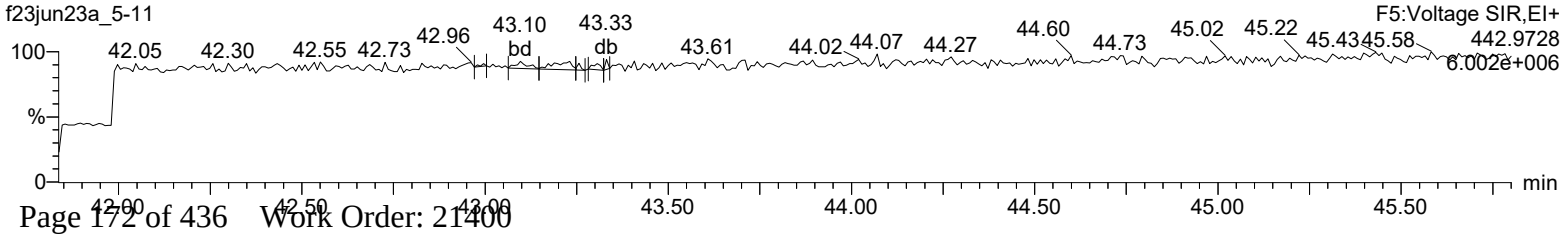


DeDPE



Lock Mass F5



Quality Control Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034325**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**MB for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 10:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-3**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.52	pg/L	3.52	5.00
40321-76-4	1,2,3,7,8-PeCDD	U	2.92	pg/L	2.92	25.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	6.74	pg/L	6.74	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	6.96	pg/L	6.96	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	6.86	pg/L	6.86	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	9.06	pg/L	9.06	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	J	12.1	pg/L	8.88	100
51207-31-9	2,3,7,8-TCDF	U	2.84	pg/L	2.84	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	2.46	pg/L	2.46	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	2.38	pg/L	2.38	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.38	pg/L	1.38	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.39	pg/L	1.39	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.49	pg/L	1.49	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.64	pg/L	2.64	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	2.50	pg/L	2.50	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.44	pg/L	3.44	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.96	pg/L	4.96	100
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.52	pg/L	3.52	10.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.92	pg/L	2.92	50.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	6.74	pg/L	6.74	50.0
TCDF	Total Tetrachlorodibenzofuran	U	2.84	pg/L	2.84	10.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	9.06	pg/L	9.06	50.0
30402-15-4	Total Pentachlorodibenzofuran	U	2.38	pg/L	2.38	50.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.38	pg/L	1.38	50.0
38998-75-3	Total Heptachlorodibenzofuran	U	2.50	pg/L	2.50	50.0
TEQ	TEQ WHO2005 ND=0		0.00362	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		5.21	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1070	2000	pg/L	53.5	(25%-164%)
13C-1,2,3,7,8-PeCDD		1130	2000	pg/L	56.5	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1240	2000	pg/L	62.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1180	2000	pg/L	58.8	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1160	2000	pg/L	57.8	(23%-140%)
13C-OCDD		2000	4000	pg/L	50.0	(17%-157%)
13C-2,3,7,8-TCDF		1050	2000	pg/L	52.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		985	2000	pg/L	49.2	(24%-185%)
13C-2,3,4,7,8-PeCDF		1090	2000	pg/L	54.5	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1220	2000	pg/L	61.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1210	2000	pg/L	60.7	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1250	2000	pg/L	62.4	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1060	2000	pg/L	53.2	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034325**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**MB for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 10:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-3**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1120	2000	pg/L	55.8	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1220	2000	pg/L	60.8	(26%-138%)
37Cl-2,3,7,8-TCDD		147	200	pg/L	73.7	(35%-197%)

Comments:

J **Value is estimated**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.176		904			508			
2	12378-PeCDD							NO		0.146		868			448			
3	123478-HxCDD							NO		0.337		1509			644			
4	123678-HxCDD							NO		0.348		1509			644			
5	123789-HxCDD							NO		0.343		1509			644			
6	1234678-HpCDD							NO		0.453		995			919			
7	OCDD	1.57e2	1.84e2	3.41e2	44.41	1.001	0.85	NO	0.604	0.444	3.12e3	460	6.8	3.27e3	504	6.5	MM	MM
8	2378-TCDF							NO		0.142		669			943			
9	12378-PeCDF							NO		0.123		873			1685			
10	23478-PeCDF	8.59e1	1.17e2	2.02e2	33.96	1.000	0.74	YES	0.076	0.119	1.92e3	873	2.2	4.22e3	1685	2.5	MM	bb
11	123478-HxCDF							NO		0.0692		619			333			
12	123678-HxCDF							NO		0.0695		619			333			
13	234678-HxCDF							NO		0.0746		619			333			
14	123789-HxCDF							NO		0.132		619			333			
15	1234678-HpCDF							NO		0.125		932			344			
16	1234789-HpCDF							NO		0.172		932			344			
17	OCDF							NO		0.248		253			597			
18	13C-2378-TCDD	5.85e4	7.41e4	1.33e5	31.28	1.017	0.79	NO	53.469	0.381	8.05e5	2672	301.2	1.11e6	2032	547.1	bb	bd
19	13C-12378-PeCDD	6.23e4	3.77e4	1.00e5	34.15	1.110	1.65	NO	56.501	0.456	1.20e6	1748	687.9	7.54e5	2274	331.6	bd	bd
20	13C-123478-HxCDD	4.64e4	3.59e4	8.22e4	36.76	0.991	1.29	NO	62.121	1.44	8.40e5	5580	150.6	6.53e5	4888	133.5	bd	bd
21	13C-123678-HxCDD	5.23e4	4.20e4	9.43e4	36.85	0.994	1.25	NO	58.773	1.19	8.06e5	5580	144.5	6.19e5	4888	126.7	dd	dd
22	13C-1234678-HpCDD	3.78e4	3.46e4	7.23e4	40.14	1.082	1.09	NO	57.820	1.25	4.49e5	4410	101.8	4.13e5	4186	98.7	bd	bd
23	13C-OCDD	4.72e4	5.48e4	1.02e5	44.35	1.196	0.86	NO	100.034	1.09	4.54e5	2238	202.8	5.00e5	3890	128.7	bd	bd
24	13C-2378-TCDF	9.12e4	1.08e5	1.99e5	30.56	0.993	0.85	NO	52.630	0.179	9.65e5	1856	520.3	1.21e6	1515	796.8	bd	bb
25	13C-12378-PeCDF	1.13e5	7.09e4	1.84e5	33.35	1.084	1.60	NO	49.242	0.989	2.52e6	11632	216.3	1.38e6	6819	202.0	bb	bd
26	13C-23478-PeCDF	1.19e5	7.34e4	1.92e5	33.96	1.104	1.62	NO	54.486	1.05	2.39e6	11632	205.4	1.48e6	6819	216.9	bb	dd
27	13C-123478-HxCDF	4.25e4	8.04e4	1.23e5	36.04	0.972	0.53	NO	60.950	1.43	8.39e5	7767	108.0	1.49e6	8102	183.4	bd	bd
28	13C-123678-HxCDF	5.15e4	1.00e5	1.52e5	36.14	0.975	0.51	NO	60.707	1.15	8.44e5	7767	108.7	1.58e6	8102	195.3	dd	db
29	13C-234678-HxCDF	4.51e4	8.53e4	1.30e5	36.63	0.988	0.53	NO	62.400	1.38	7.77e5	7767	100.0	1.48e6	8102	182.6	bd	bb
30	13C-123789-HxCDF	3.33e4	6.56e4	9.89e4	37.40	1.009	0.51	NO	53.224	1.55	4.67e5	7767	60.1	9.56e5	8102	118.0	bd	dd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	4.20e4	9.20e4	1.34e5	38.88	1.048	0.46	NO	55.803	1.01	5.77e5	7111	81.1	1.17e6	6180	189.4	bd	bd
32	13C-1234789-HpCDF	3.51e4	7.86e4	1.14e5	40.81	1.101	0.45	NO	60.788	1.29	4.21e5	7111	59.2	8.37e5	6180	135.5	bd	bd
33	13C-1234-TCDD	9.86e4	1.19e5	2.18e5	30.77	0.000	0.83	NO	100.000	0.434	1.23e6	2672	459.9	1.51e6	2032	740.6	bb	bd
34	13C-123789-HxCDD	8.83e4	6.79e4	1.56e5	37.08	0.000	1.30	NO	100.000	1.22	1.22e6	5580	217.8	9.65e5	4888	197.5	dd	dd
35	37Cl-2378-TCDD	1.80e4		1.80e4	31.30	1.017			7.373	0.0974	2.92e5	1188	246.2				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-3, ID:12034325-1 MB, Description:

M	M2
7 OCDD 44.41 - AB	7 OCDD 44.41 - AB
10 23478-PeCDF 33.96 - AB	

Reason Codes assigned by SM1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	5.47e1	8.95e1	1.44e2	32.04	0.61	YES	0.054	0.142	2.78e3	669	4.2	3.79e3	943	4.0	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	23478-PeCDF	8.59e1	1.17e2	2.02e2	33.96	0.74	YES	0.076	0.119	1.92e3	873	2.2	4.22e3	1685	2.5	MM	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

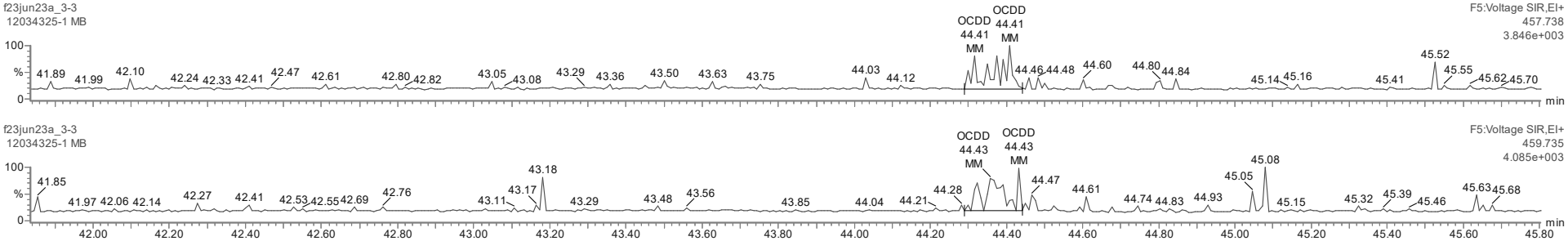
Reasons for Analyst Intervention

Name:f23jun23a_3-3, ID:12034325-1 MB, Description:

M	M2
1 23478-PeCDF 33.96 - AB	

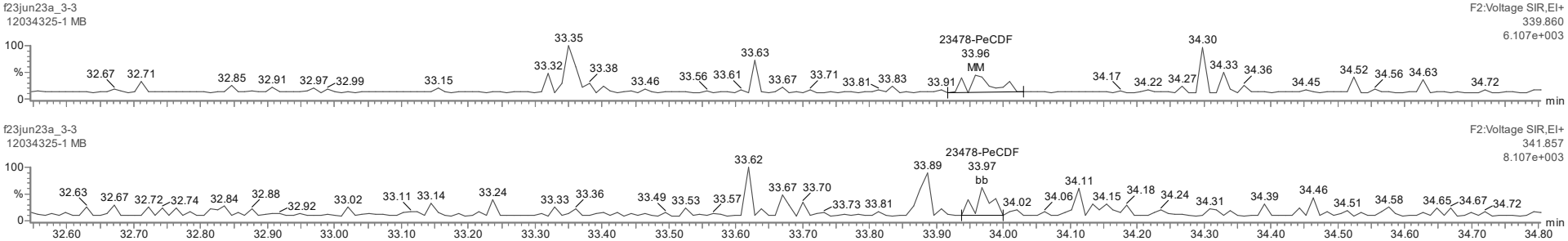
Reason Codes assigned by SM1 on 28-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/28/2023 06/28/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/28/2023 06/28/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

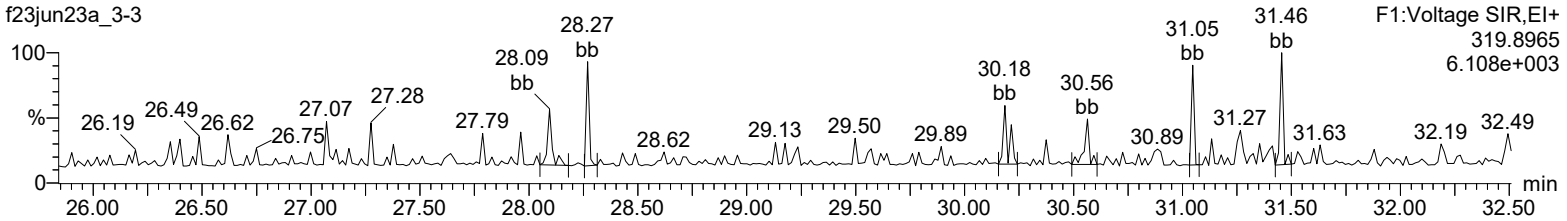
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

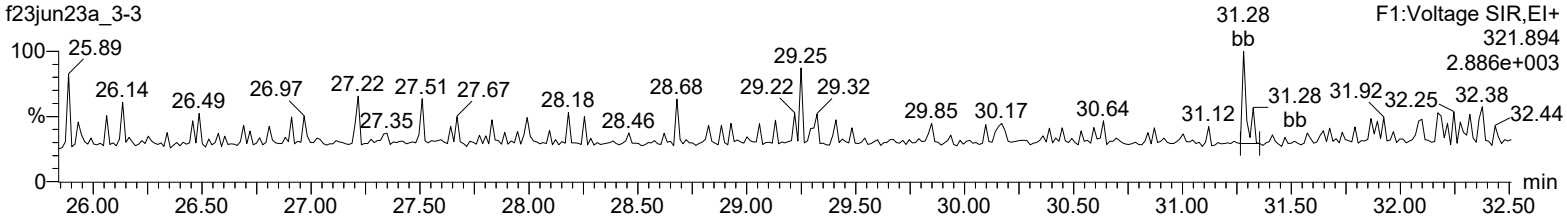
06/28/2023

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

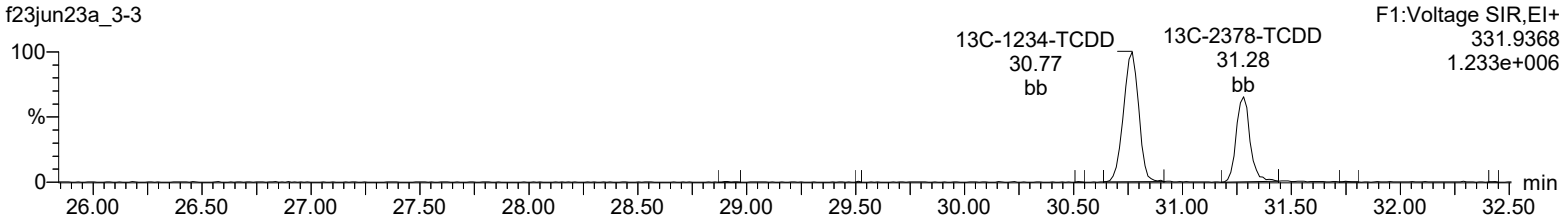
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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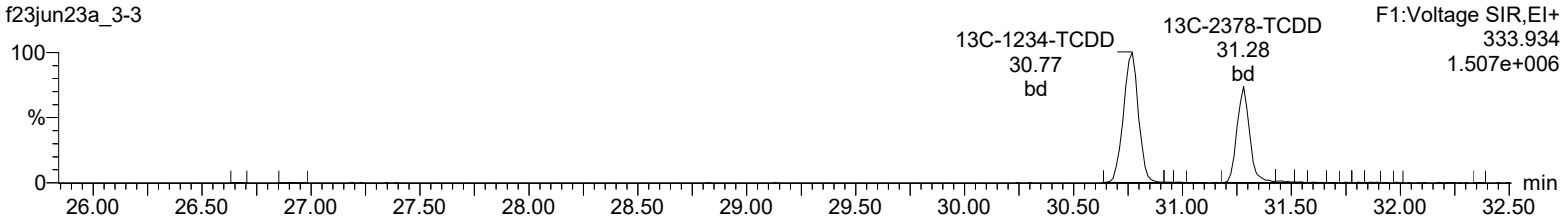
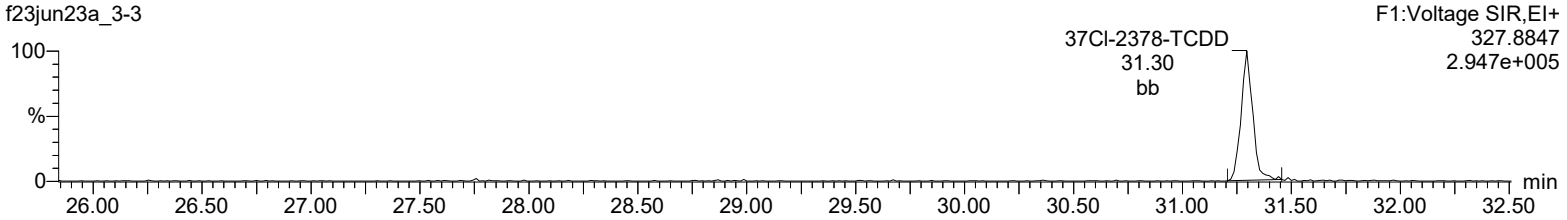
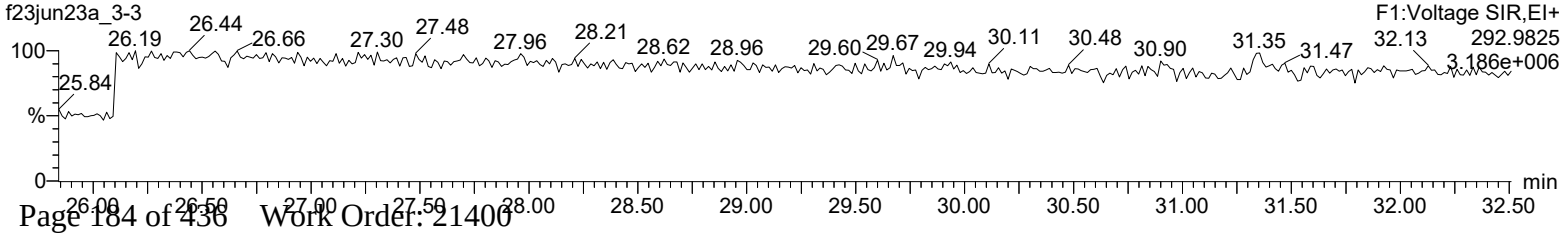


37Cl-2378-TCDD



Lock Mass F1



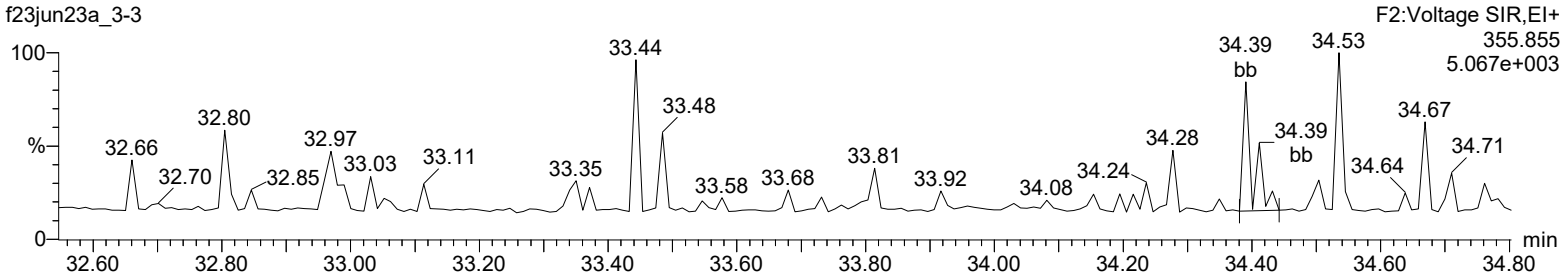
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

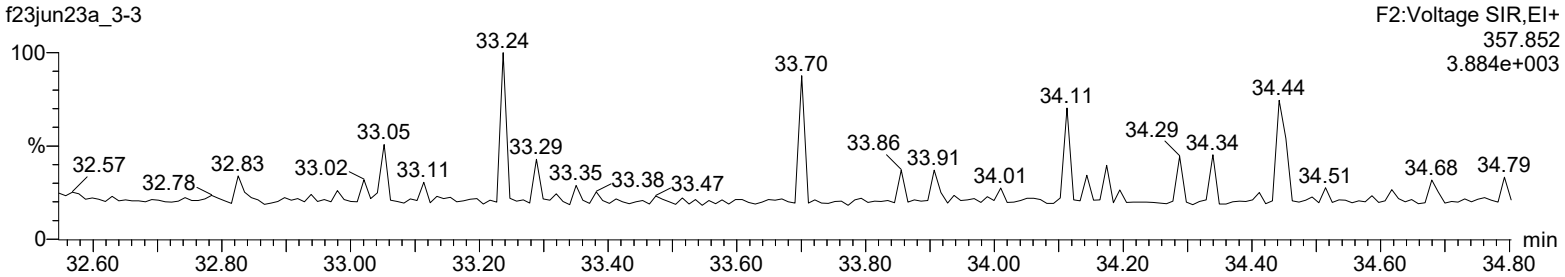
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

Total-pentadioxins



Total-pentadioxins



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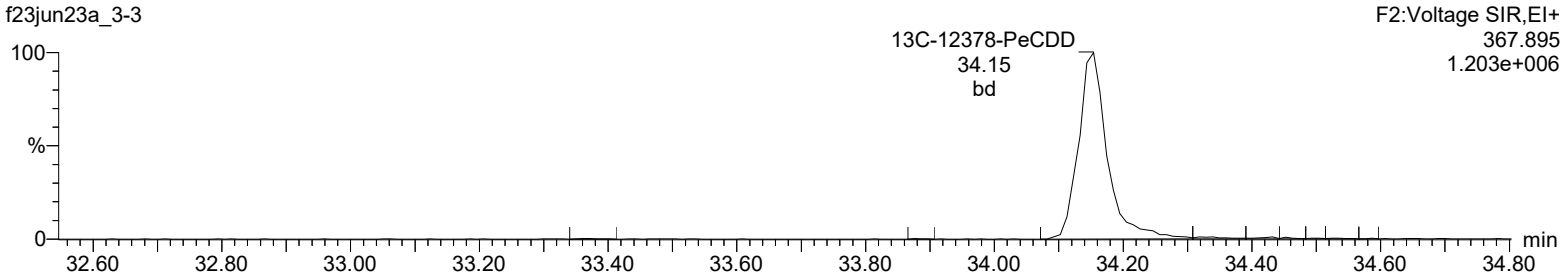

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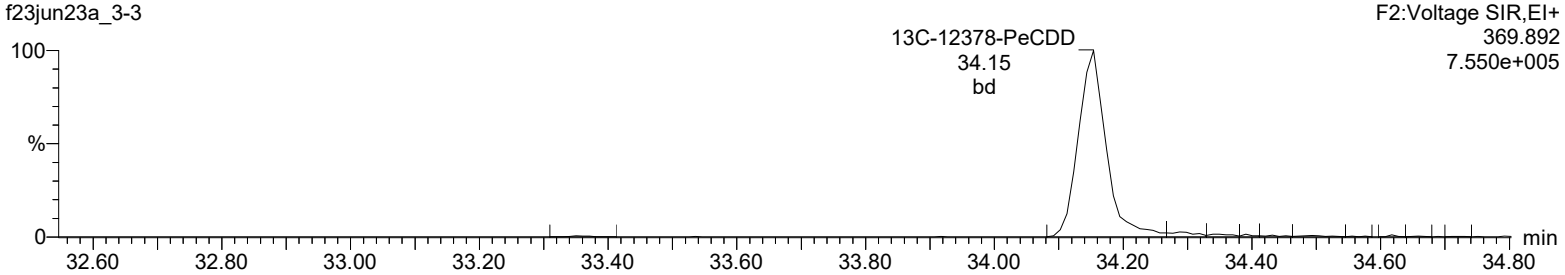
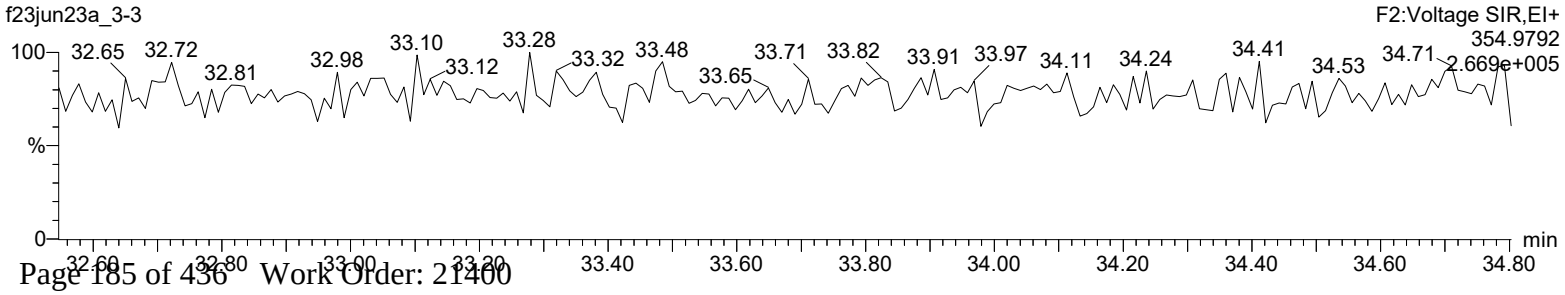


Lock Mass F2



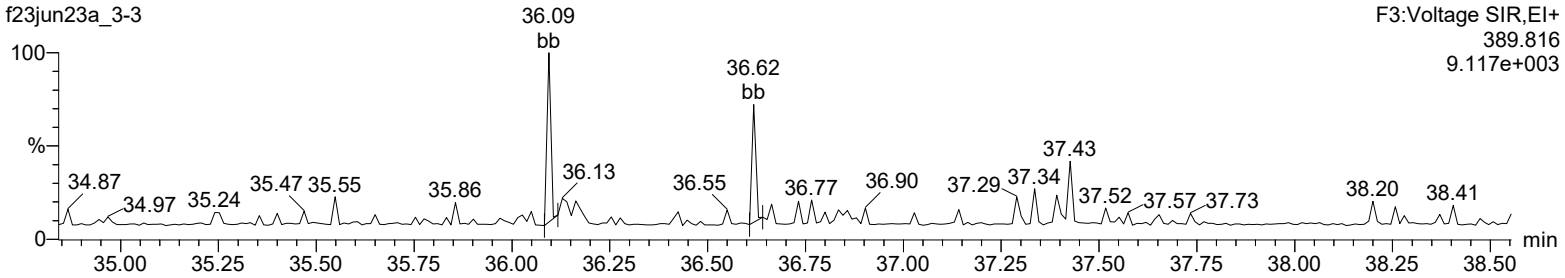
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

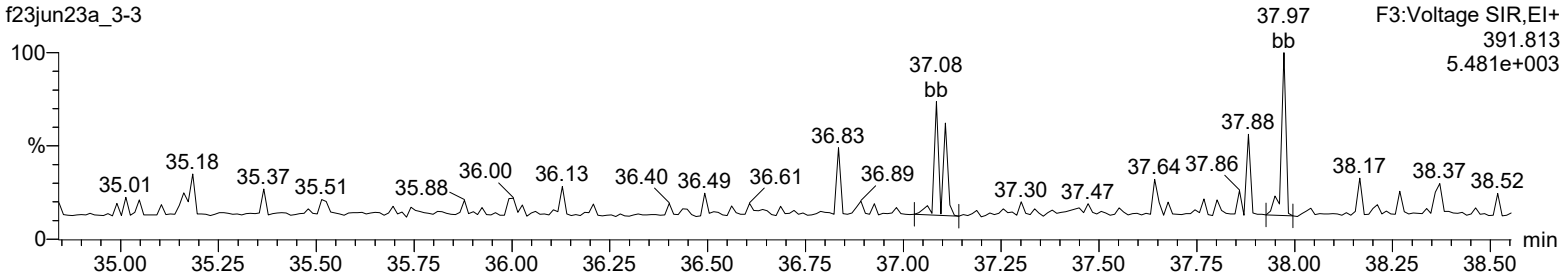
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

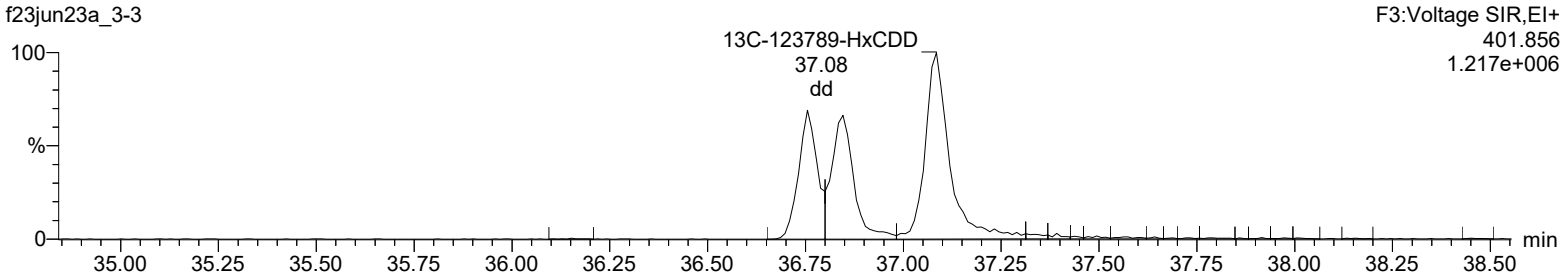
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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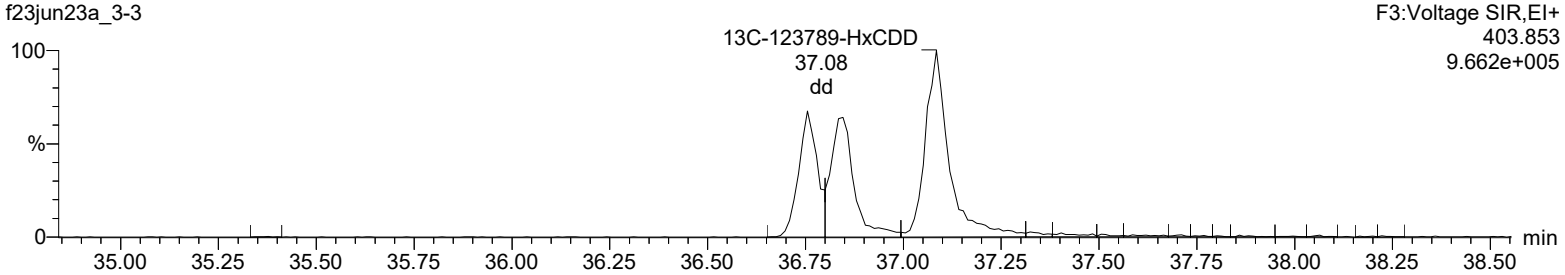
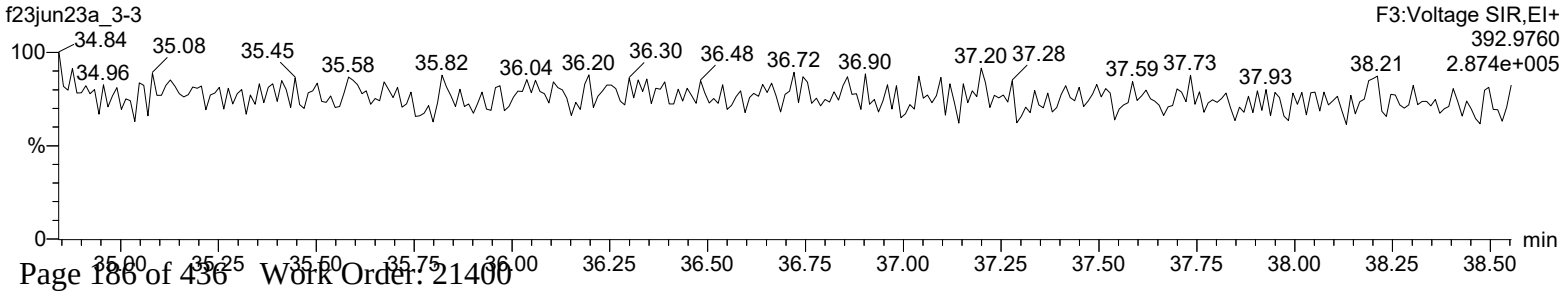


Lock Mass F3



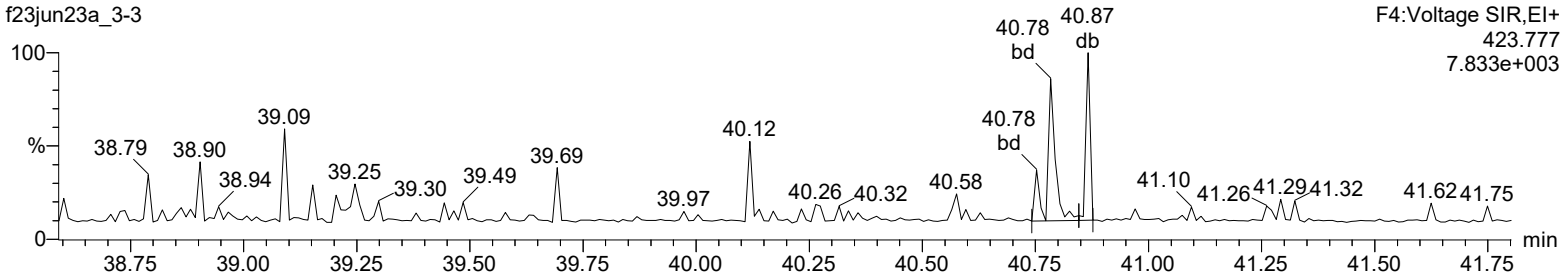
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

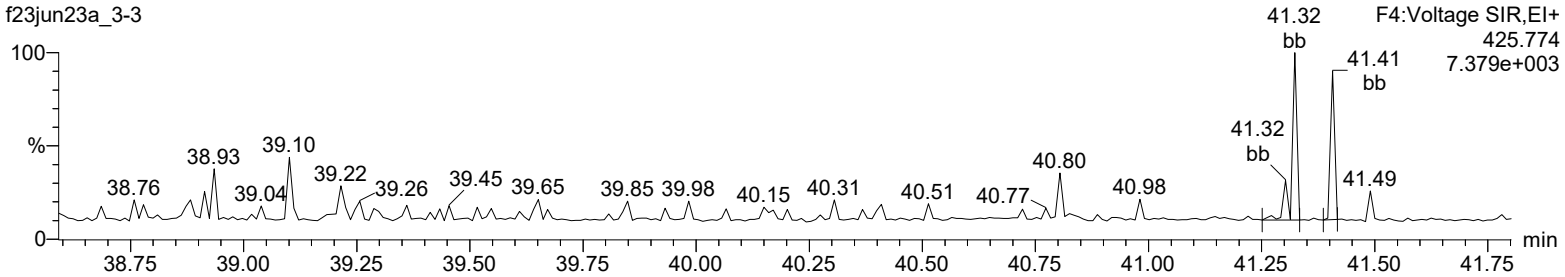
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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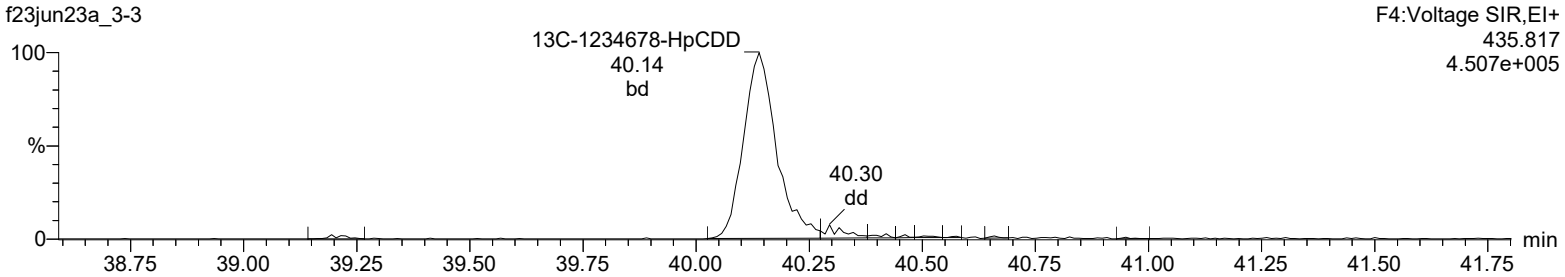

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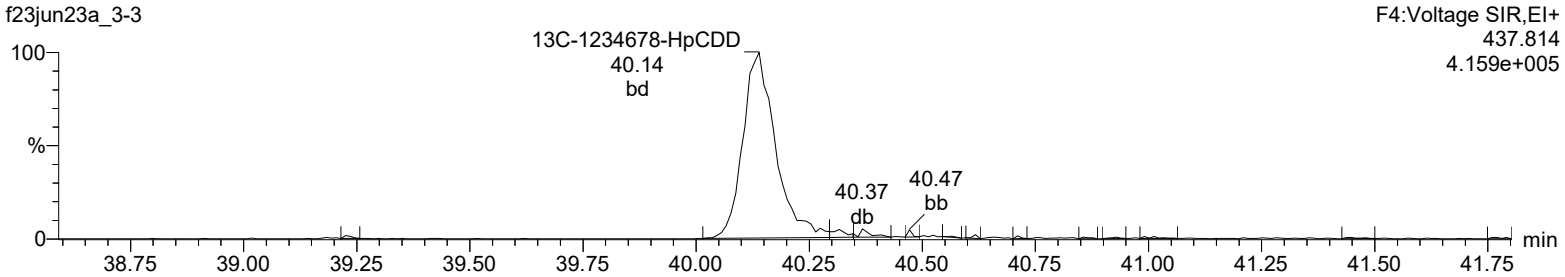
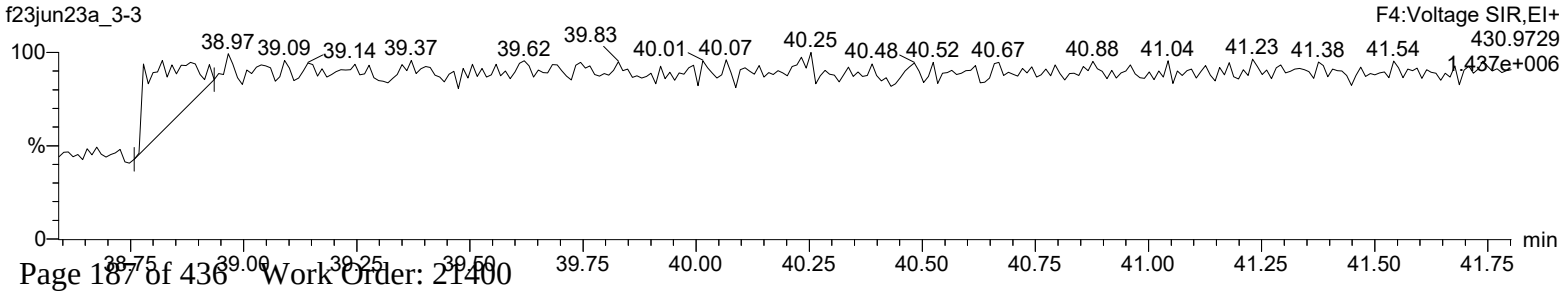


Lock Mass F4



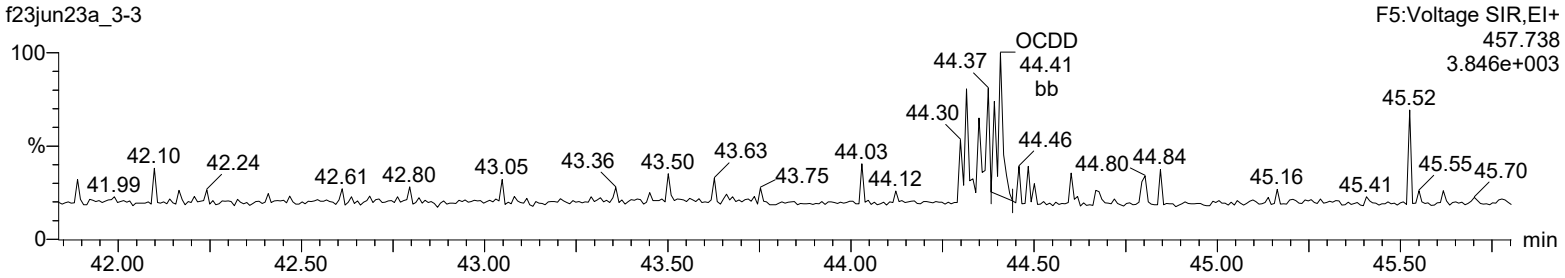
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

OCDD



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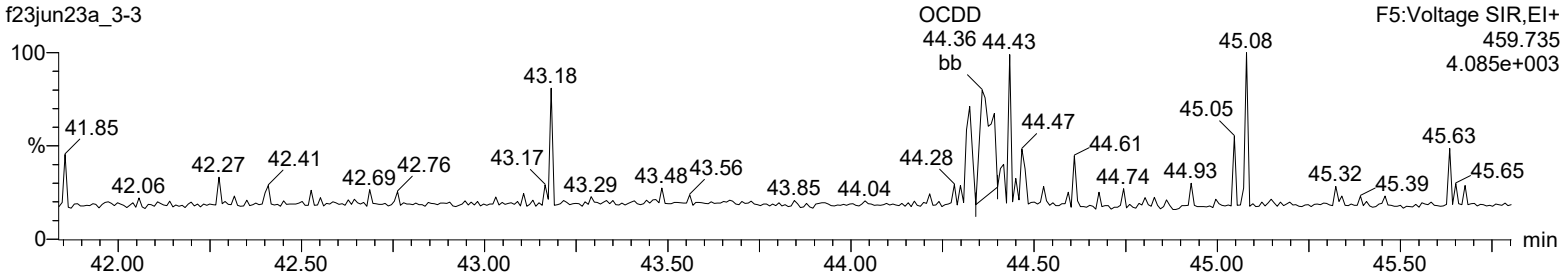

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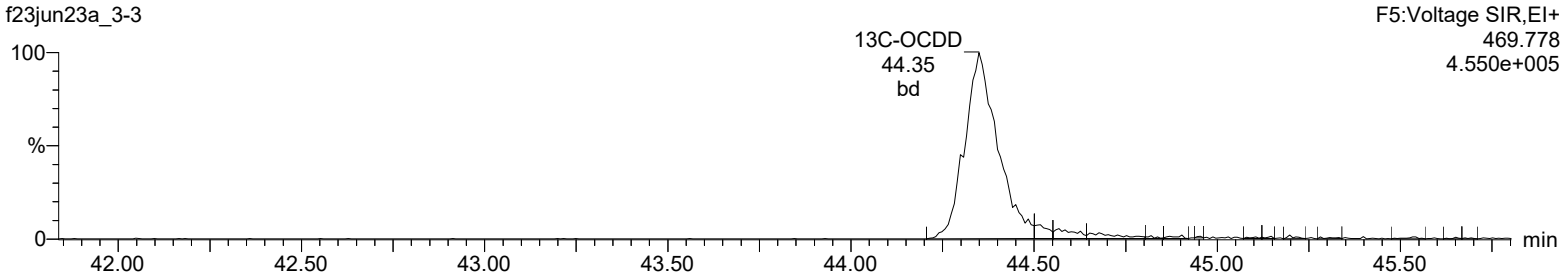

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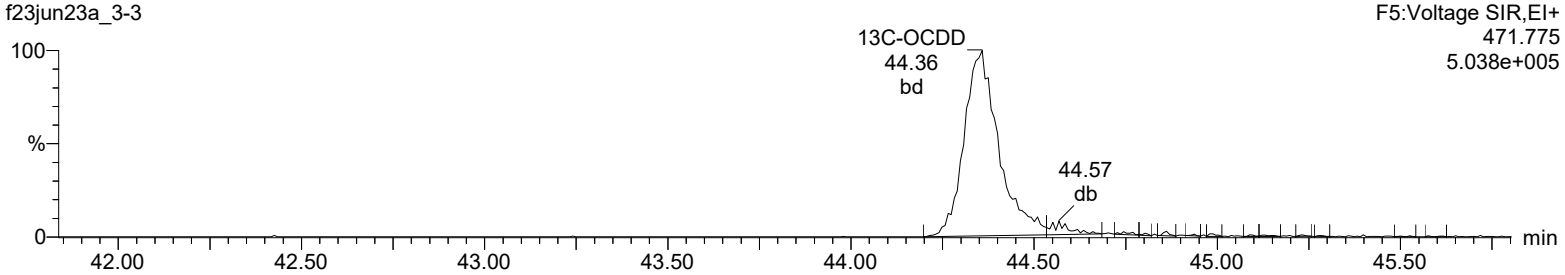
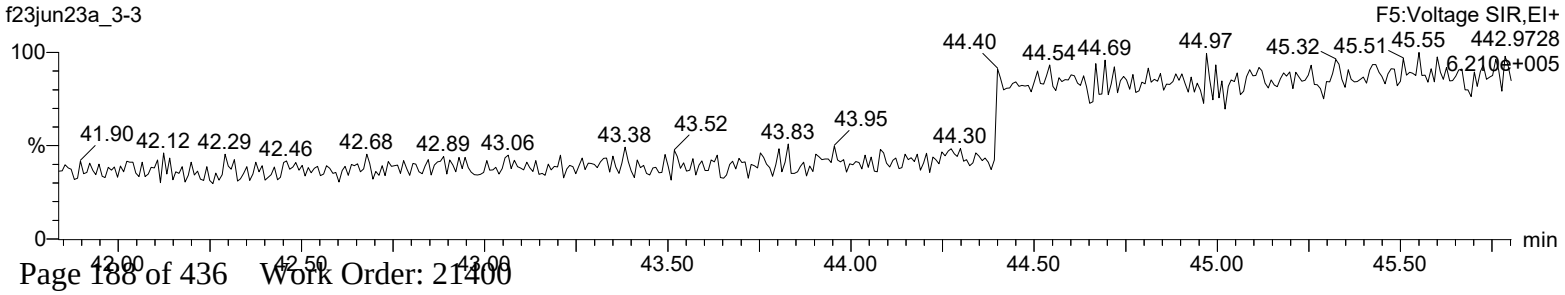


Lock Mass F5



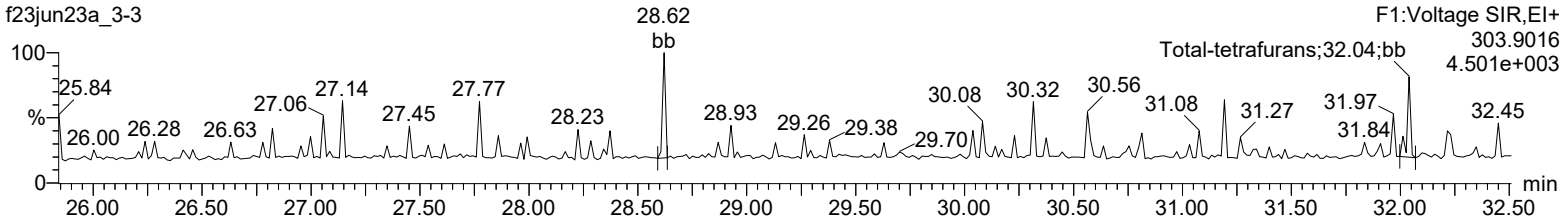
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

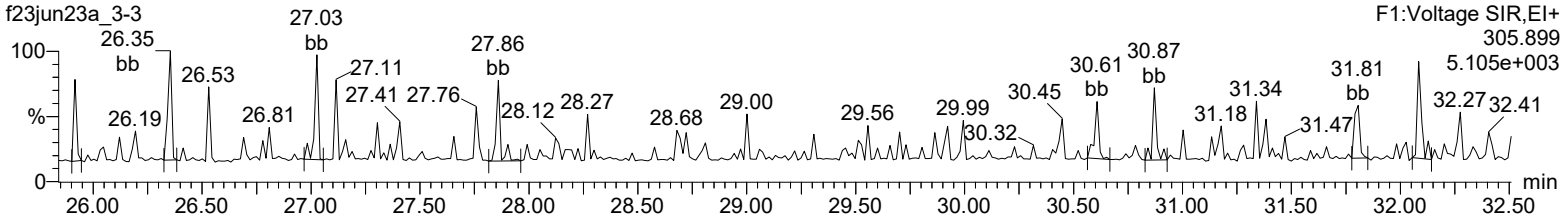
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

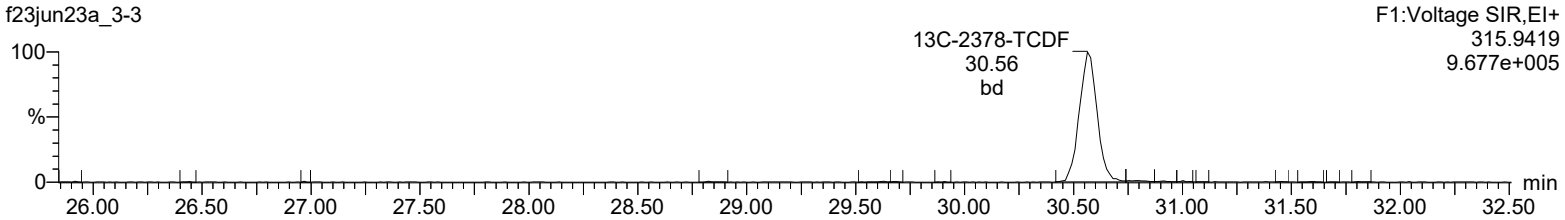
Total-tetrafurans



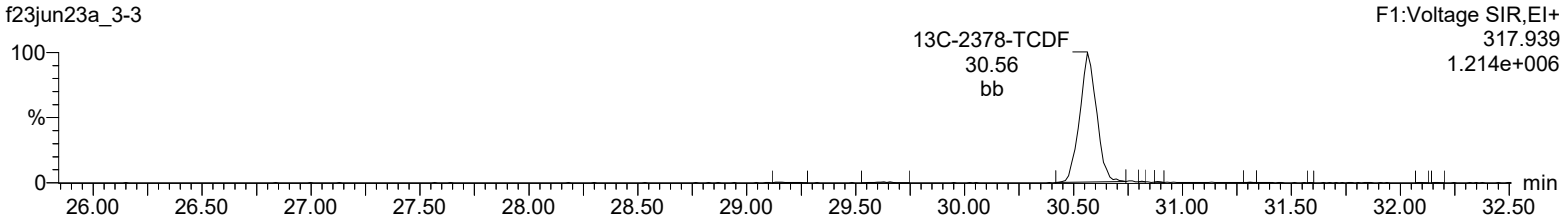
Total-tetrafurans



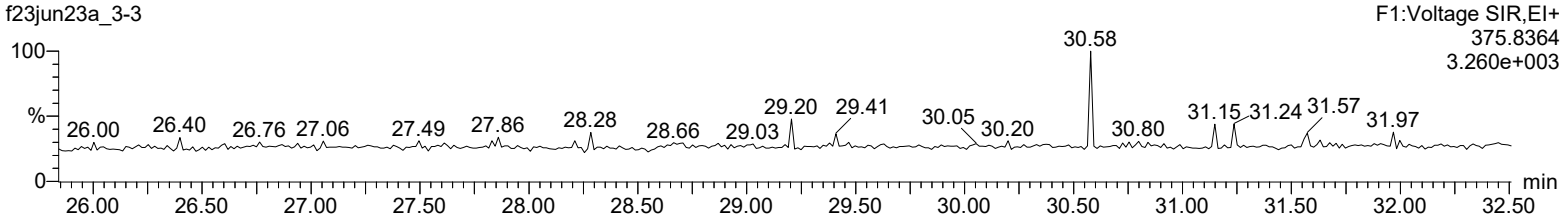
13C-2378-TCDF



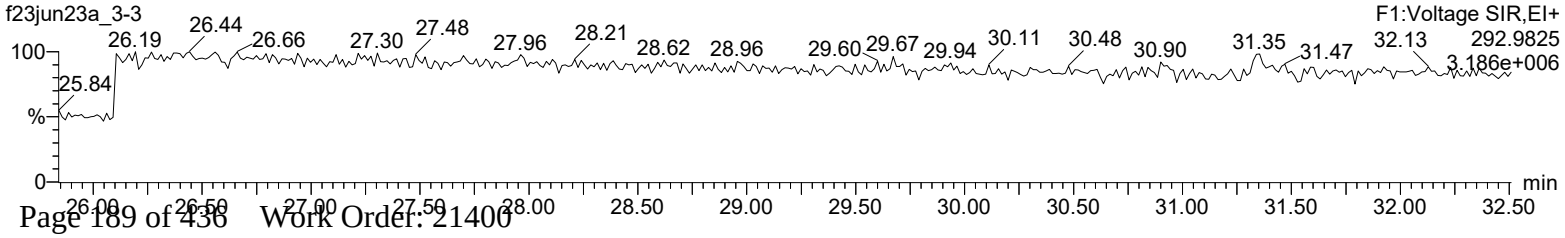
13C-2378-TCDF



HxDPE



Lock Mass F1



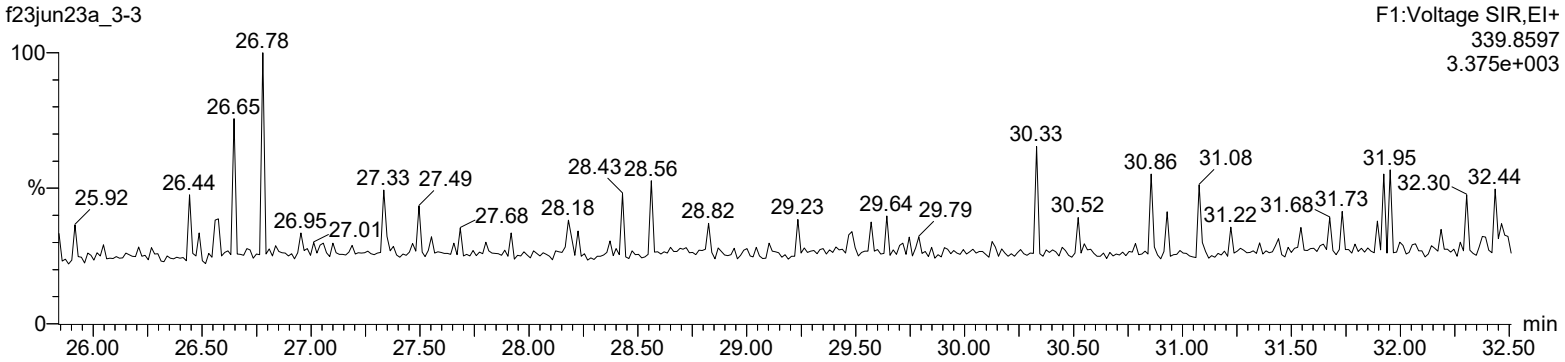
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

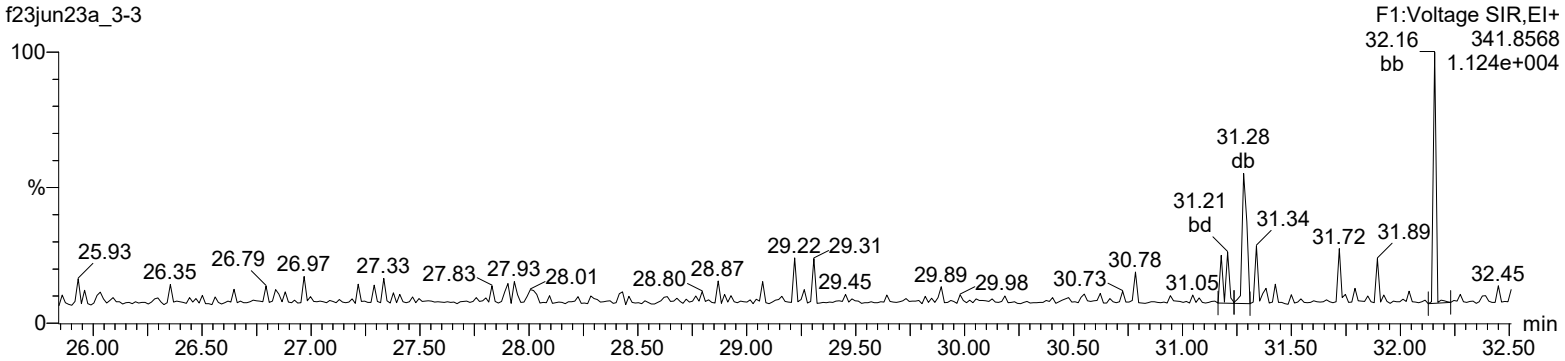
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

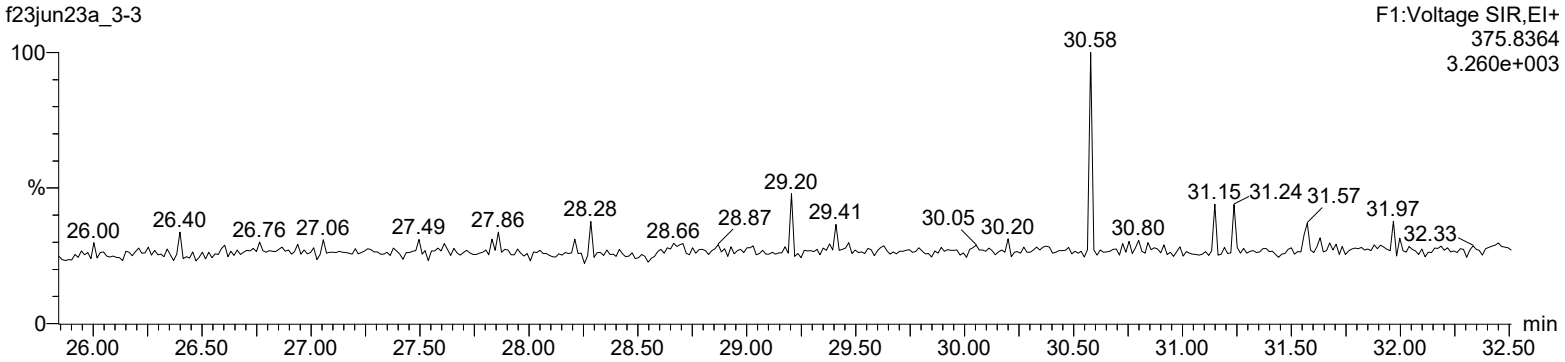
Total-pentafurans (F1)



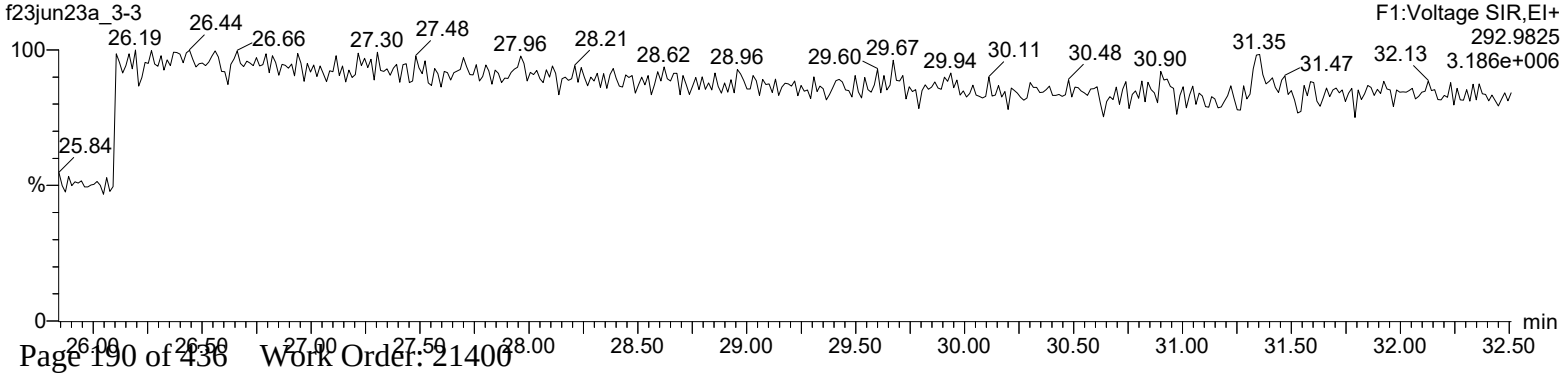
Total-pentafurans (F1)



HxDPE



Lock Mass F1



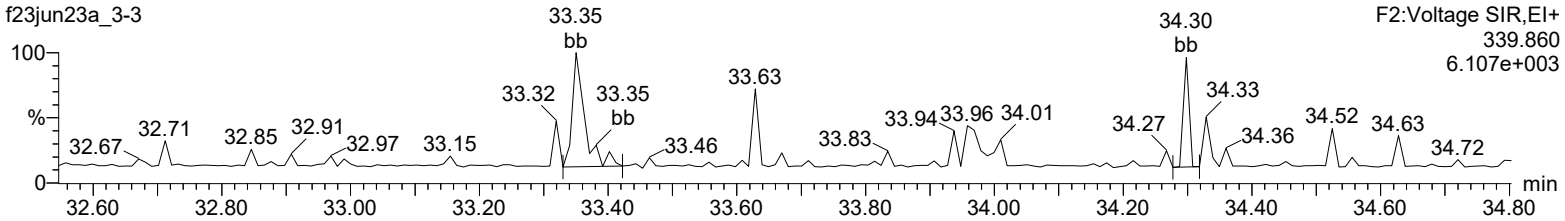
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

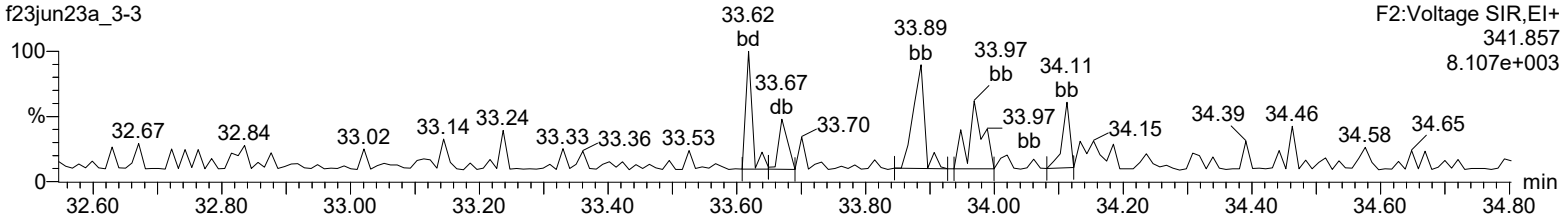
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

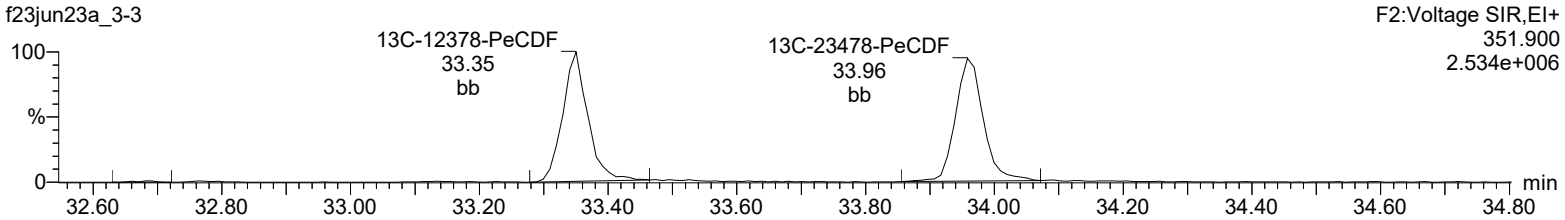
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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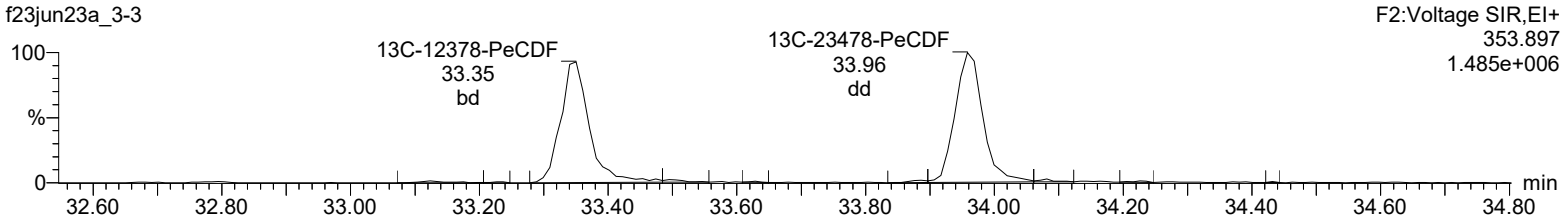
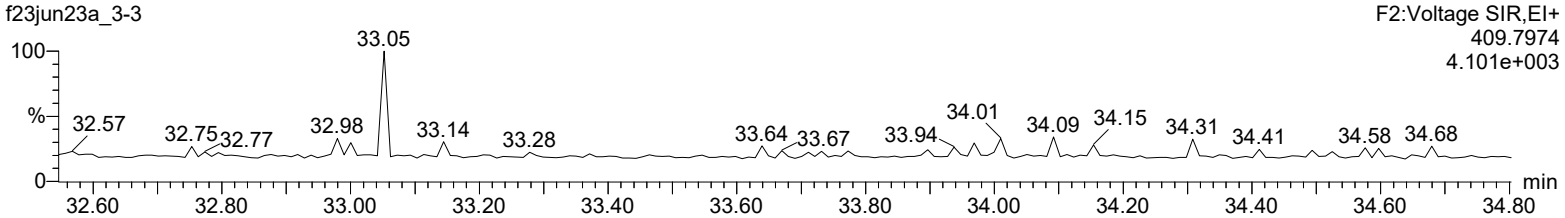
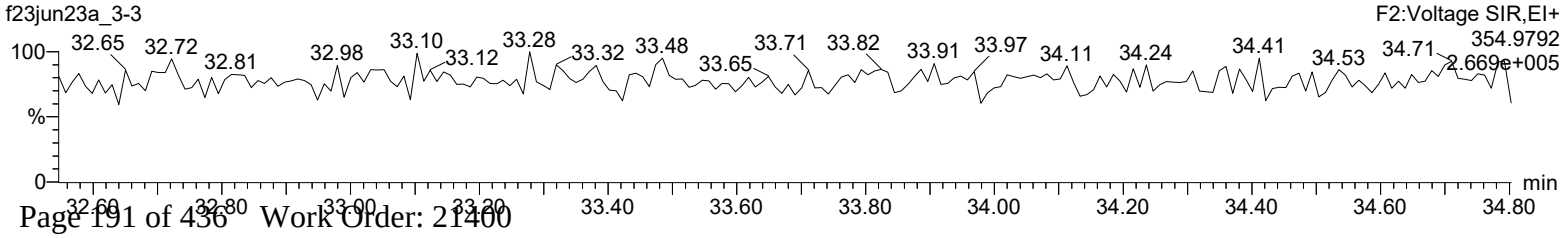


HpDPE



Lock Mass F2



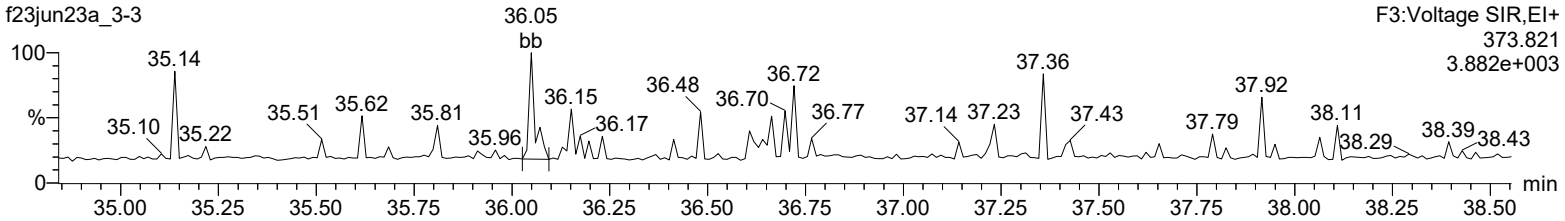
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

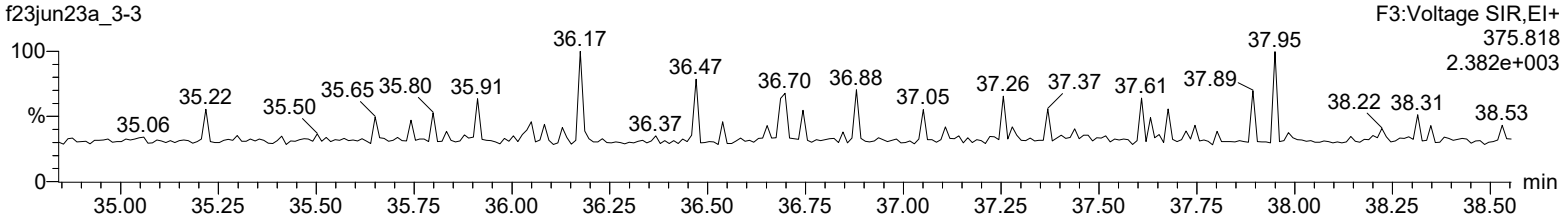
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

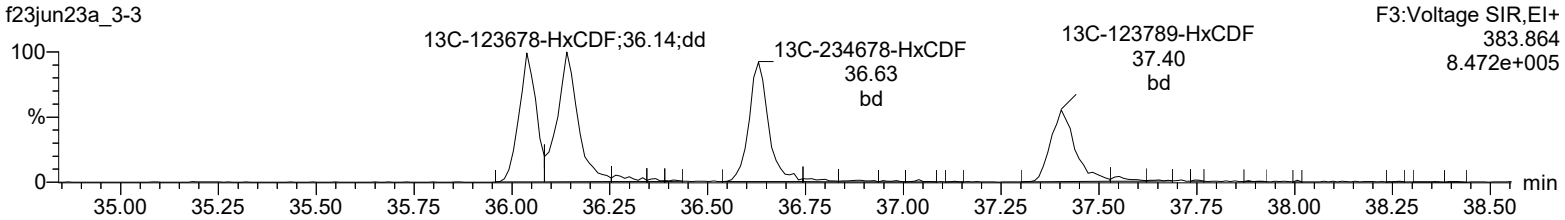
Total-hexafurans



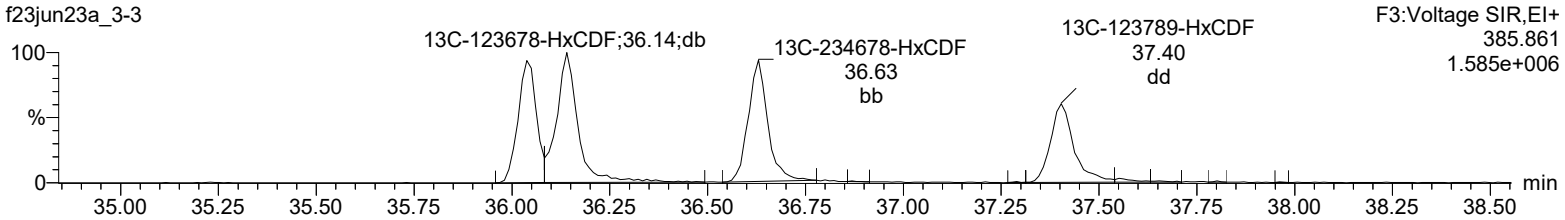
Total-hexafurans



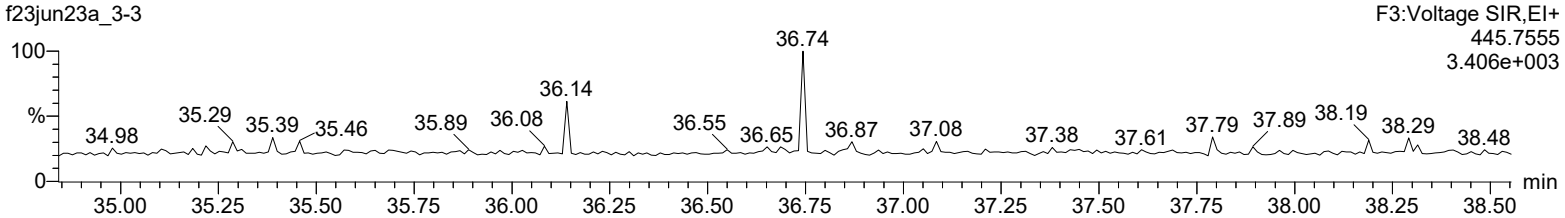
13C-123478-HxCDF



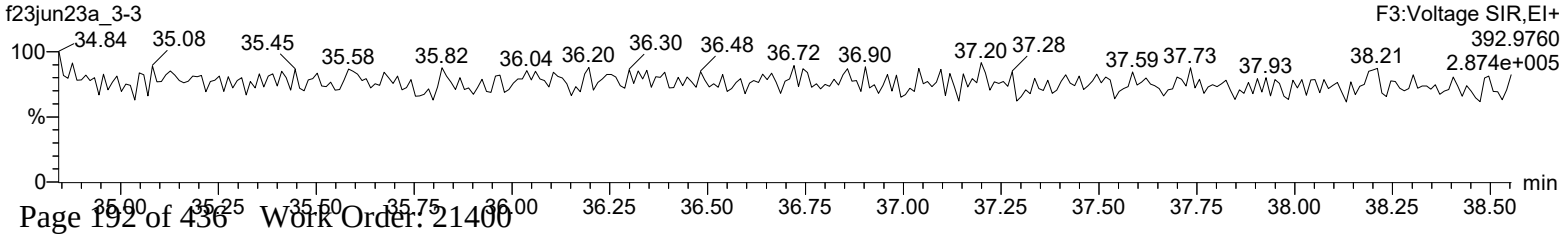
13C-123478-HxCDF



OcDPE



Lock Mass F3



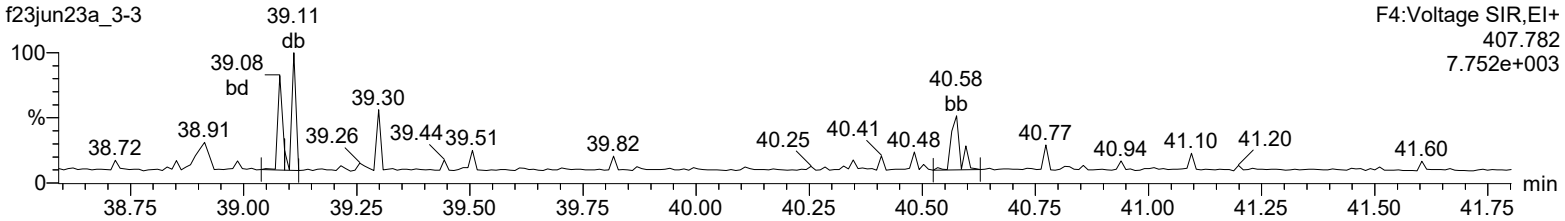
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

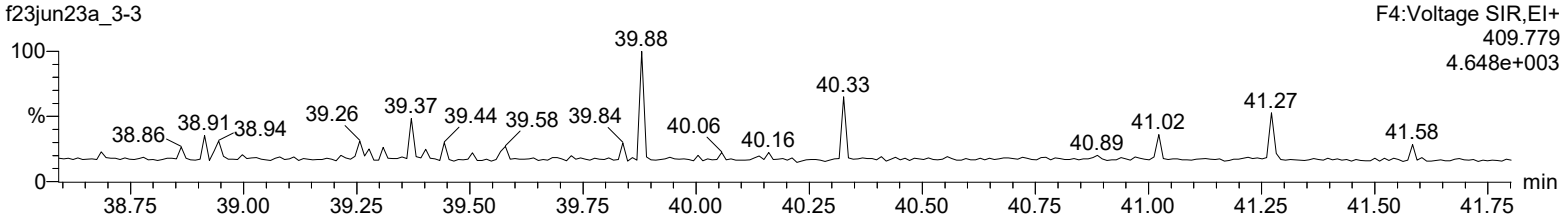
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

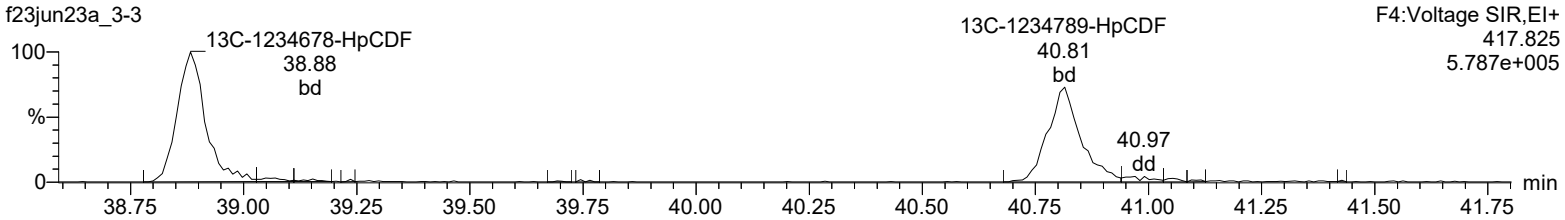
Total-heptafurans



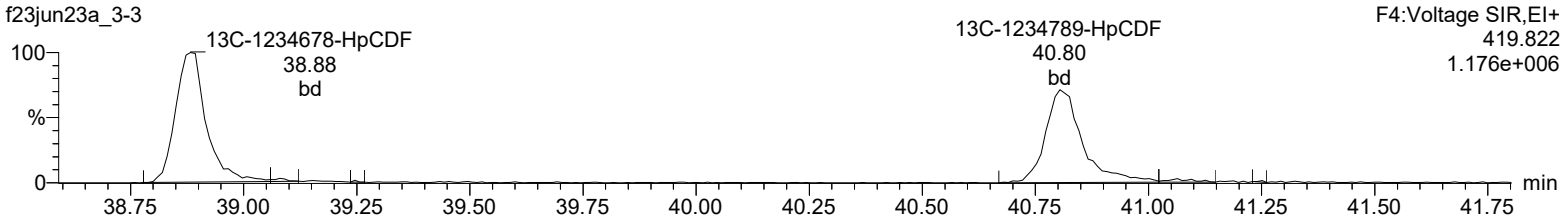
Total-heptafurans



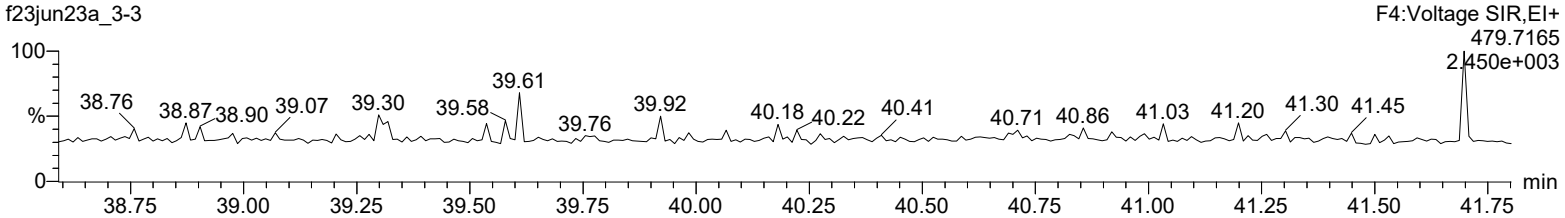
13C-1234678-HpCDF



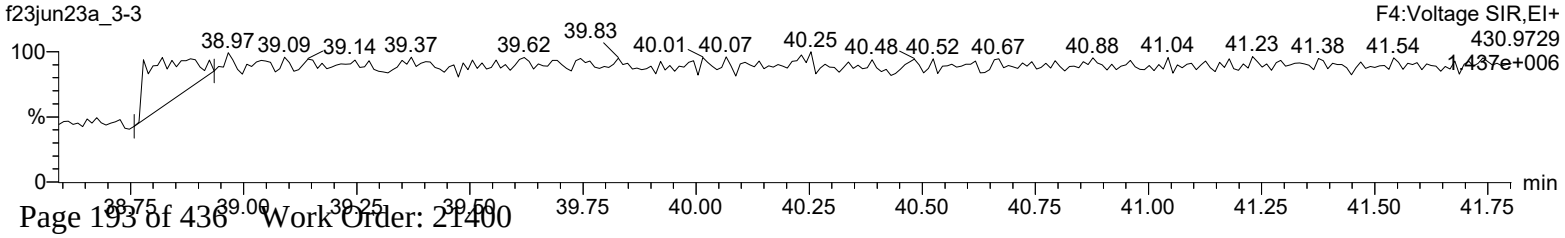
13C-1234678-HpCDF



NoDPE



Lock Mass F4



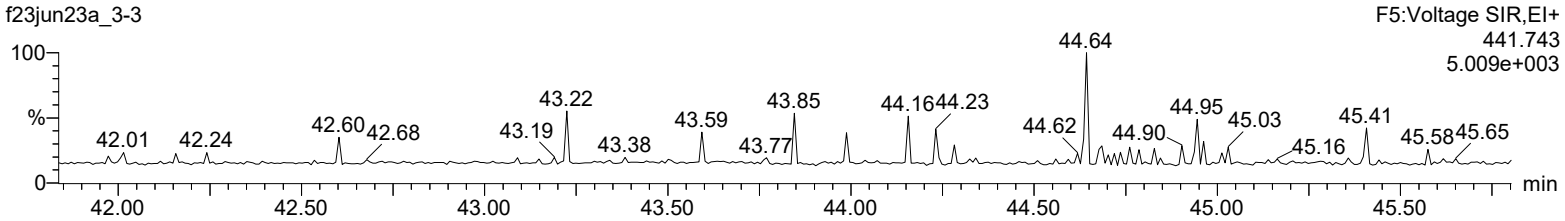
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

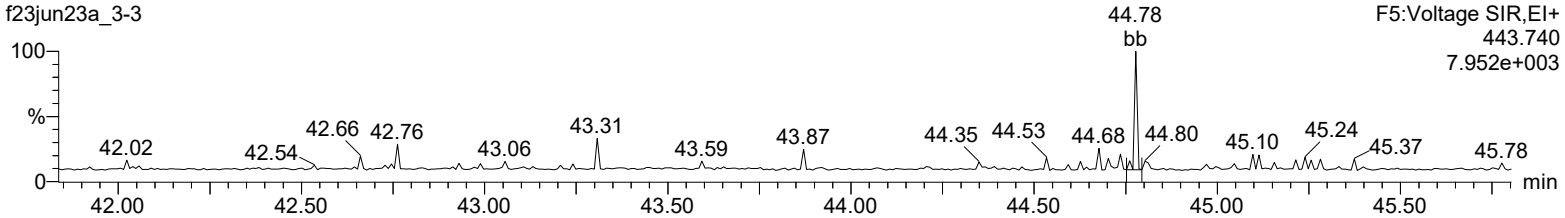
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

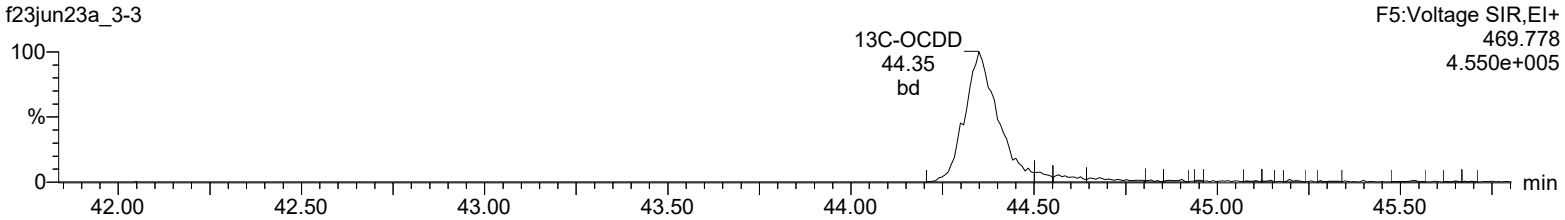
OCDF



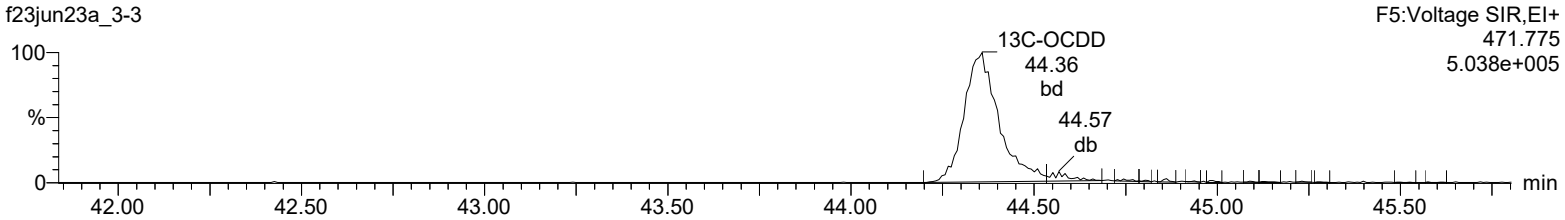
OCDF



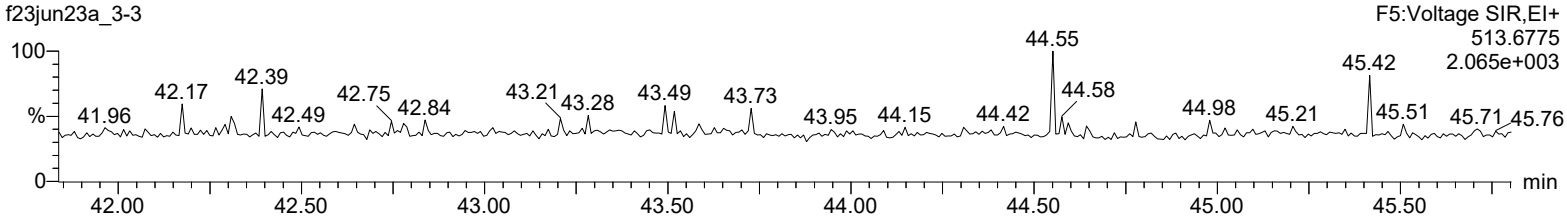
13C-OCDD



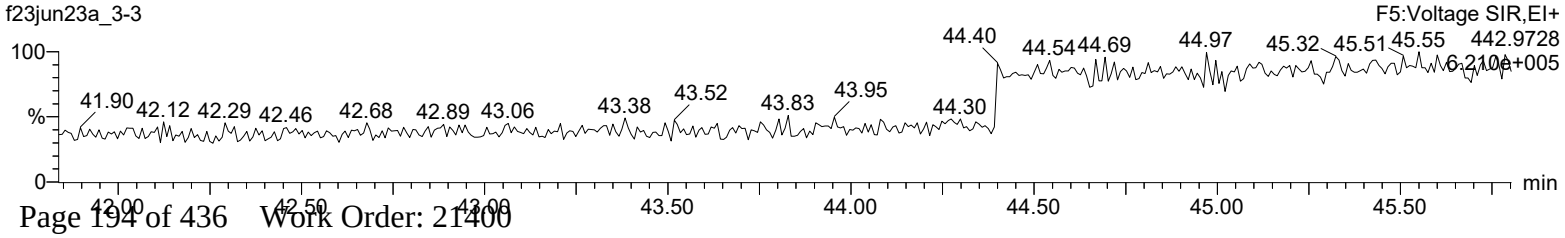
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034326**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**LCS for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 08:48**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-1**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		231	pg/L	3.96	5.00
40321-76-4	1,2,3,7,8-PeCDD		986	pg/L	9.10	25.0
39227-28-6	1,2,3,4,7,8-HxCDD		1130	pg/L	16.1	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		988	pg/L	15.0	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1090	pg/L	15.5	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		1100	pg/L	18.2	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		2150	pg/L	59.8	100
51207-31-9	2,3,7,8-TCDF		224	pg/L	4.22	10.0
57117-41-6	1,2,3,7,8-PeCDF		1080	pg/L	13.2	50.0
57117-31-4	2,3,4,7,8-PeCDF		1090	pg/L	11.4	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1070	pg/L	22.2	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1080	pg/L	20.6	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1090	pg/L	20.8	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1060	pg/L	32.2	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1150	pg/L	24.8	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1160	pg/L	34.0	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		2430	pg/L	79.0	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1250	2000	pg/L	62.5	(20%-175%)
13C-1,2,3,7,8-PeCDD		1430	2000	pg/L	71.4	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1270	2000	pg/L	63.7	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1380	2000	pg/L	68.9	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1330	2000	pg/L	66.6	(22%-166%)
13C-OCDD		2350	4000	pg/L	58.6	(13%-199%)
13C-2,3,7,8-TCDF		1290	2000	pg/L	64.5	(22%-152%)
13C-1,2,3,7,8-PeCDF		1300	2000	pg/L	64.8	(21%-192%)
13C-2,3,4,7,8-PeCDF		1450	2000	pg/L	72.3	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1310	2000	pg/L	65.7	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1290	2000	pg/L	64.6	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1330	2000	pg/L	66.6	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1290	2000	pg/L	64.4	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1250	2000	pg/L	62.6	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1350	2000	pg/L	67.3	(20%-186%)
37Cl-2,3,7,8-TCDD		148	200	pg/L	73.9	(31%-191%)

Comments:

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:18:29 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	8.98e3	1.13e4	2.03e4	31.31	1.001	0.80	NO	11.571	0.198	1.38e5	1328	103.7	1.55e5	782	198.7	bd	bd
2	12378-PeCDD	4.50e4	2.96e4	7.46e4	34.17	1.000	1.52	NO	49.279	0.455	8.72e5	2667	327.1	5.72e5	2498	229.2	bd	bd
3	123478-HxCDD	3.68e4	2.92e4	6.60e4	36.78	1.000	1.26	NO	56.654	0.803	6.19e5	3437	180.1	5.06e5	3307	153.0	bd	bd
4	123678-HxCDD	4.05e4	3.43e4	7.48e4	36.87	1.001	1.18	NO	49.404	0.752	7.00e5	3437	203.7	5.47e5	3307	165.5	db	dd
5	123789-HxCDD	4.00e4	3.30e4	7.29e4	37.11	1.007	1.21	NO	54.523	0.775	5.93e5	3437	172.7	4.71e5	3307	142.3	bd	dd
6	1234678-HpCDD	3.88e4	3.37e4	7.25e4	40.16	1.000	1.15	NO	55.009	0.909	4.44e5	2409	184.2	4.02e5	3511	114.6	bd	bd
7	OCDD	4.39e4	4.75e4	9.14e4	44.37	1.000	0.92	NO	107.263	2.99	4.21e5	3271	128.8	4.69e5	5703	82.2	bd	bd
8	2378-TCDF	1.61e4	2.18e4	3.79e4	30.58	1.000	0.74	NO	11.185	0.211	1.77e5	1310	134.8	2.20e5	1725	127.7	bb	bb
9	12378-PeCDF	1.07e5	6.36e4	1.71e5	33.36	1.000	1.69	NO	53.793	0.658	2.14e6	7025	304.1	1.24e6	9696	127.7	bd	bd
10	23478-PeCDF	1.24e5	7.57e4	2.00e5	33.98	1.000	1.64	NO	54.728	0.568	2.61e6	7025	371.0	1.51e6	9696	155.8	bb	bd
11	123478-HxCDF	7.21e4	5.67e4	1.29e5	36.06	1.000	1.27	NO	53.252	1.11	1.25e6	10043	124.3	1.03e6	8427	121.8	bd	bd
12	123678-HxCDF	8.76e4	6.70e4	1.55e5	36.16	1.000	1.31	NO	53.982	1.03	1.45e6	10043	144.2	1.05e6	8427	124.6	dd	db
13	234678-HxCDF	7.78e4	6.09e4	1.39e5	36.65	1.000	1.28	NO	54.392	1.04	1.35e6	10043	134.6	9.40e5	8427	111.5	bb	bd
14	123789-HxCDF	5.90e4	4.75e4	1.07e5	37.43	1.001	1.24	NO	53.068	1.61	7.77e5	10043	77.3	6.67e5	8427	79.2	bd	bd
15	1234678-HpCDF	7.77e4	7.61e4	1.54e5	38.90	1.000	1.02	NO	57.388	1.24	1.16e6	11743	99.1	1.02e6	5381	189.0	bd	bb
16	1234789-HpCDF	6.54e4	6.28e4	1.28e5	40.83	1.000	1.04	NO	57.964	1.70	7.31e5	11743	62.2	7.35e5	5381	136.6	bb	bd
17	OCDF	7.98e4	8.42e4	1.64e5	44.68	1.007	0.95	NO	121.562	3.95	8.01e5	3918	204.6	8.05e5	14837	54.3	bd	bd
18	13C-2378-TCDD	7.36e4	8.57e4	1.59e5	31.28	1.017	0.86	NO	62.484	0.468	1.12e6	4072	274.9	1.28e6	1985	646.9	bd	bd
19	13C-12378-PeCDD	7.99e4	5.00e4	1.30e5	34.16	1.110	1.60	NO	71.359	0.616	1.50e6	2284	656.8	9.64e5	3404	283.1	bd	bd
20	13C-123478-HxCDD	6.03e4	4.83e4	1.09e5	36.77	0.991	1.25	NO	63.667	0.936	1.09e6	5385	202.0	8.62e5	3466	248.8	bd	bd
21	13C-123678-HxCDD	7.97e4	6.27e4	1.42e5	36.85	0.993	1.27	NO	68.887	0.772	1.18e6	5385	219.2	8.81e5	3466	254.1	dd	dd
22	13C-1234678-HpCDD	5.60e4	5.13e4	1.07e5	40.14	1.082	1.09	NO	66.630	0.711	6.92e5	3529	196.0	6.21e5	2829	219.6	bd	bd
23	13C-OCDD	7.24e4	8.16e4	1.54e5	44.37	1.196	0.89	NO	117.266	1.14	6.37e5	4135	154.0	7.53e5	4145	181.6	bd	bd
24	13C-2378-TCDF	1.12e5	1.38e5	2.50e5	30.58	0.994	0.81	NO	64.459	0.227	1.19e6	2101	567.4	1.47e6	2364	621.9	bd	bd
25	13C-12378-PeCDF	1.55e5	9.47e4	2.49e5	33.36	1.084	1.63	NO	64.814	0.824	3.10e6	9365	330.5	1.86e6	6727	276.1	bd	bd
26	13C-23478-PeCDF	1.63e5	9.96e4	2.62e5	33.97	1.104	1.63	NO	72.329	0.875	3.27e6	9365	349.6	1.96e6	6727	290.8	bb	bd
27	13C-123478-HxCDF	5.93e4	1.11e5	1.71e5	36.05	0.972	0.53	NO	65.653	0.745	1.02e6	4041	252.0	1.98e6	6700	294.8	bd	bd
28	13C-123678-HxCDF	7.38e4	1.34e5	2.08e5	36.15	0.975	0.55	NO	64.642	0.602	1.16e6	4041	287.1	2.01e6	6700	300.3	dd	db
29	13C-234678-HxCDF	6.22e4	1.17e5	1.79e5	36.64	0.988	0.53	NO	66.600	0.719	1.08e6	4041	267.8	1.86e6	6700	278.3	bb	bb
30	13C-123789-HxCDF	5.44e4	9.98e4	1.54e5	37.40	1.008	0.55	NO	64.402	0.809	7.77e5	4041	192.3	1.40e6	6700	208.6	bd	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:18:29 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	6.25e4	1.31e5	1.94e5	38.89	1.048	0.48	NO	62.639	0.780	8.04e5	6042	133.1	1.84e6	7345	250.3	bd	bd
32	13C-1234789-HpCDF	5.21e4	1.10e5	1.62e5	40.83	1.100	0.47	NO	67.274	1.00	5.93e5	6042	98.2	1.22e6	7345	165.9	bd	bd
33	13C-1234-TCDD	1.02e5	1.22e5	2.24e5	30.77	0.000	0.84	NO	100.000	0.533	1.30e6	4072	318.7	1.51e6	1985	761.5	bd	bb
34	13C-123789-HxCDD	1.10e5	9.17e4	2.01e5	37.10	0.000	1.20	NO	100.000	0.793	1.52e6	5385	282.2	1.29e6	3466	373.6	dd	dd
35	37Cl-2378-TCDD	1.86e4		1.86e4	31.31	1.018			7.385	0.0970	2.79e5	1238	225.2				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

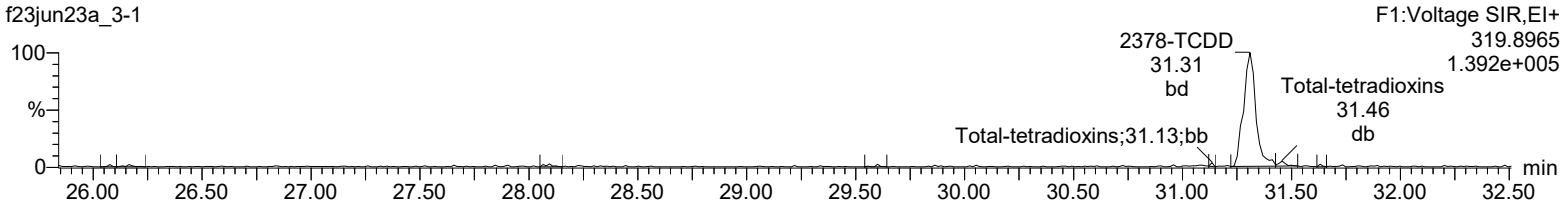
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

06/28/2023

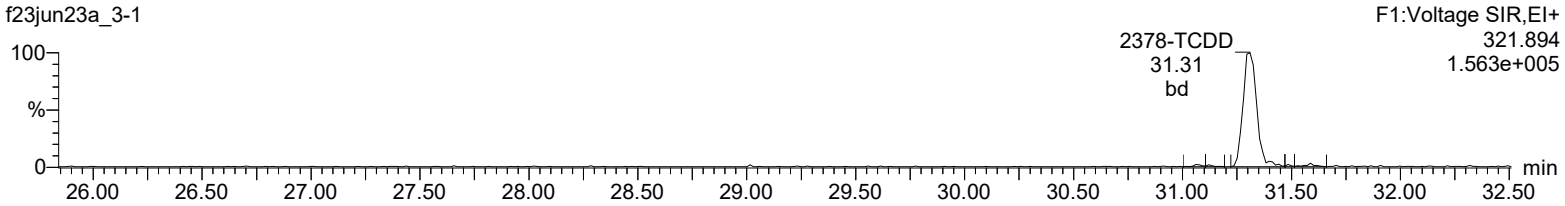
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

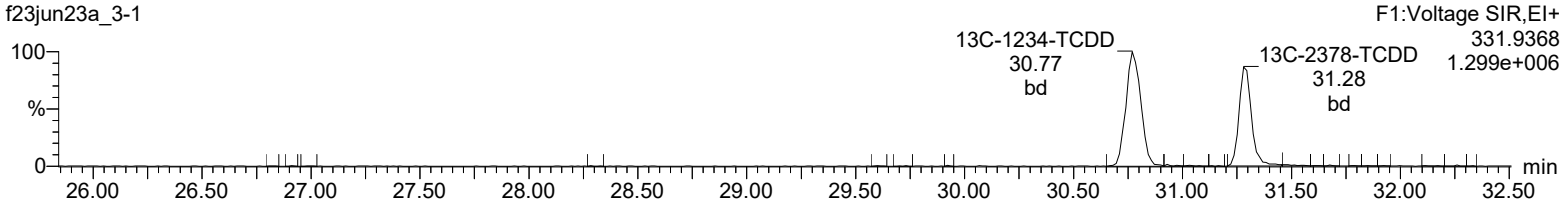
Total-tetradioxins



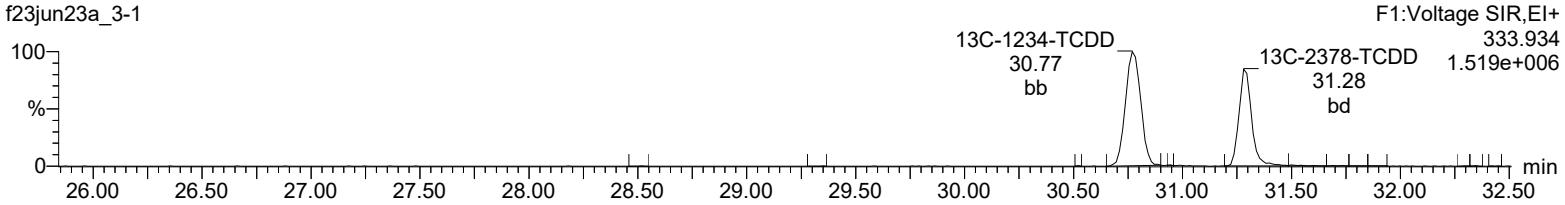
Total-tetradioxins



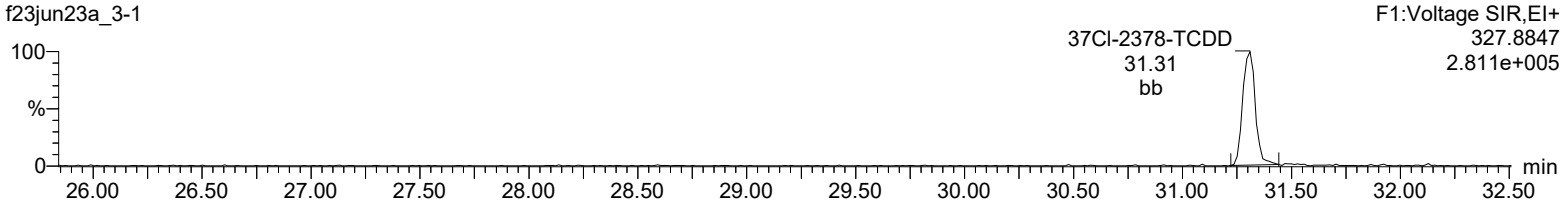
13C-2378-TCDD



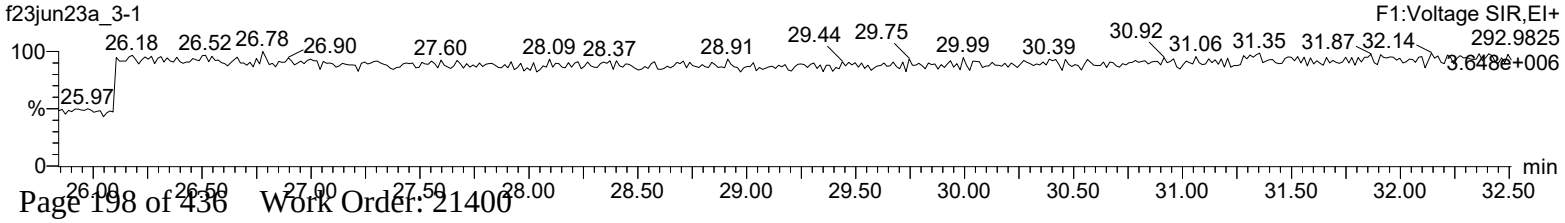
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



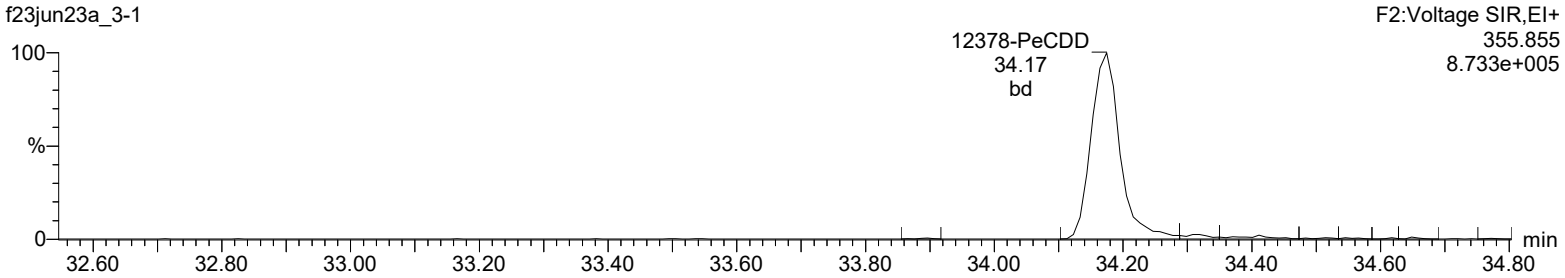
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

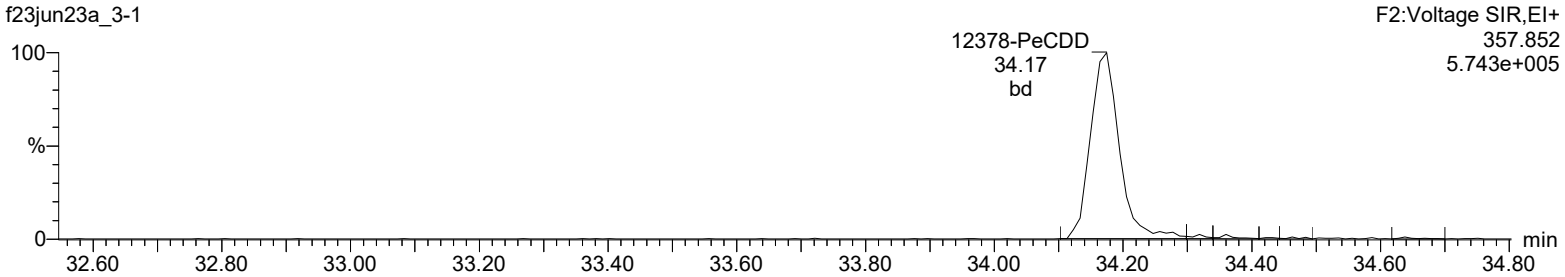
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

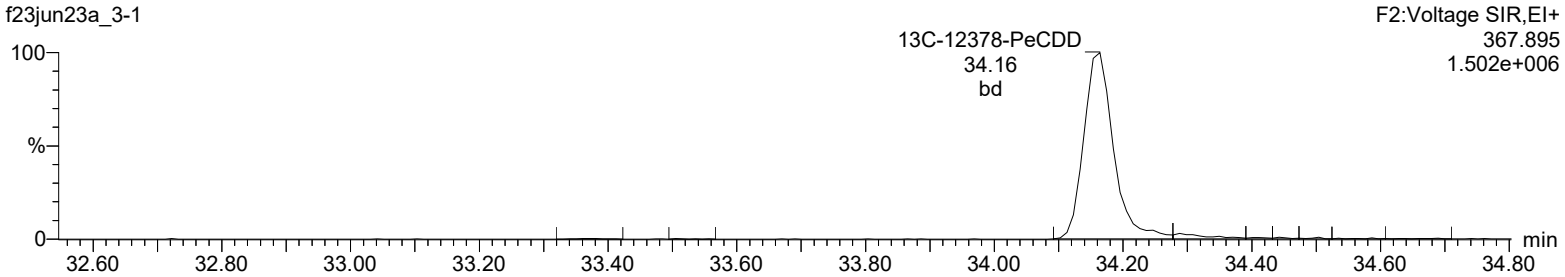
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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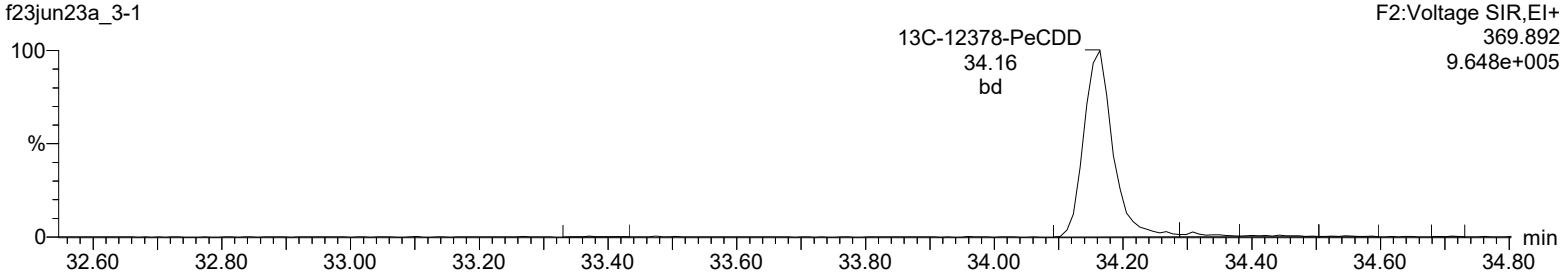
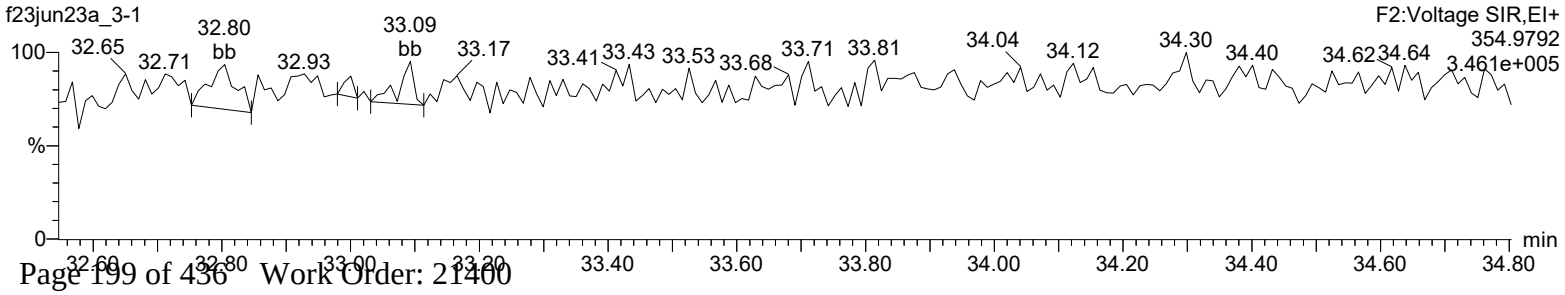


Lock Mass F2



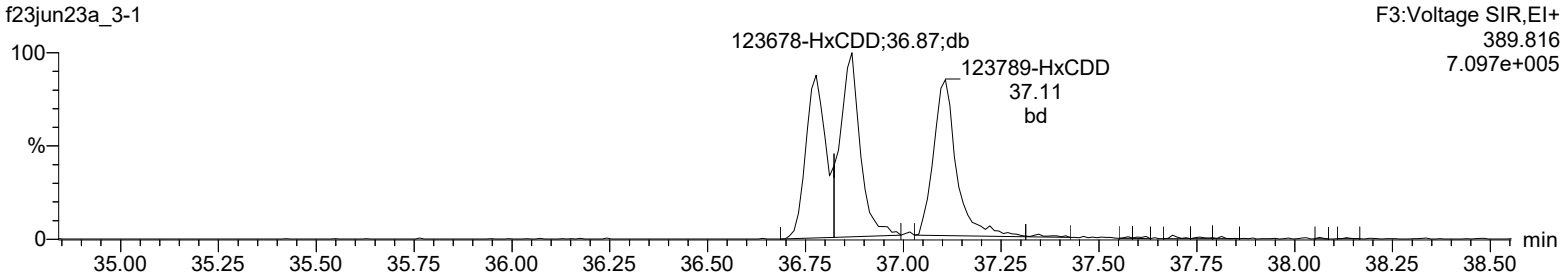
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

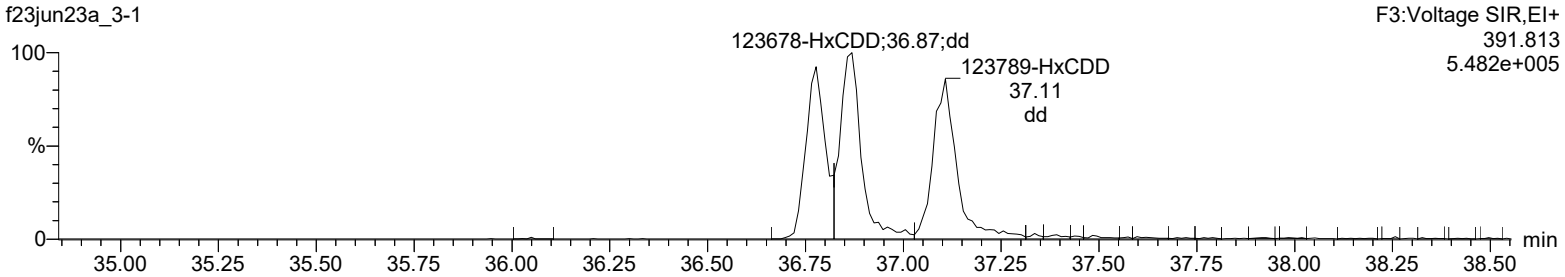
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

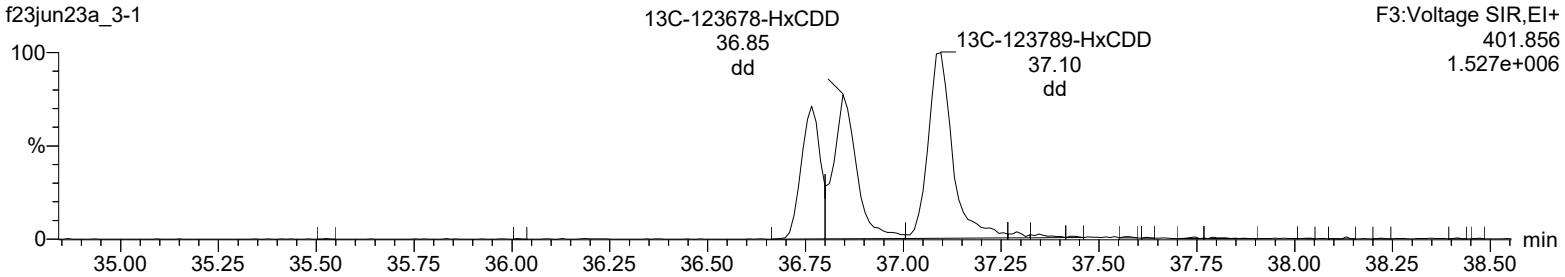
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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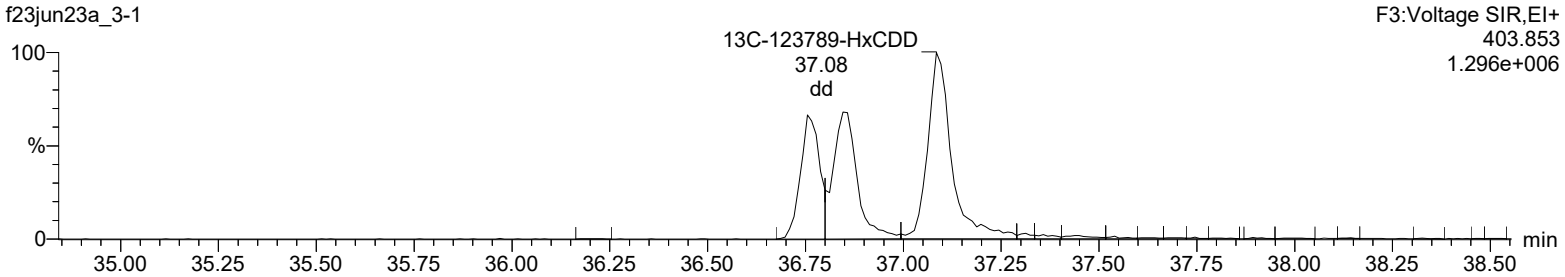
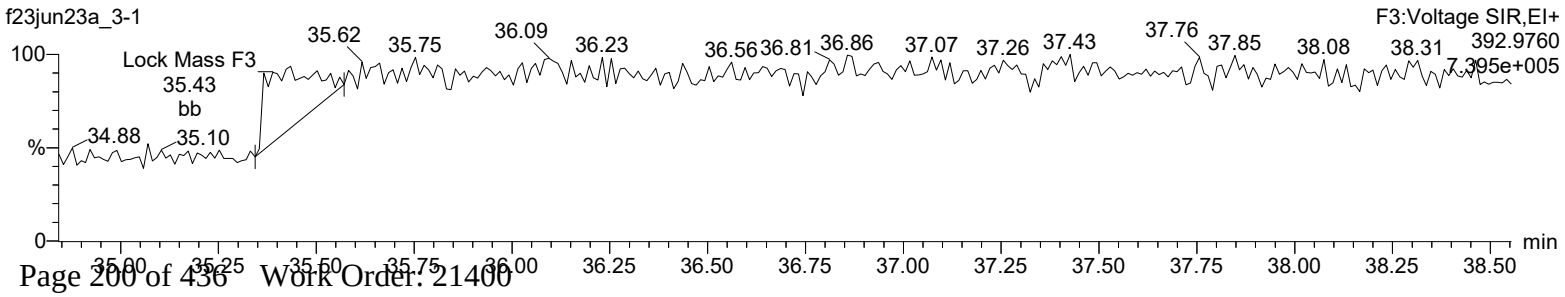


Lock Mass F3



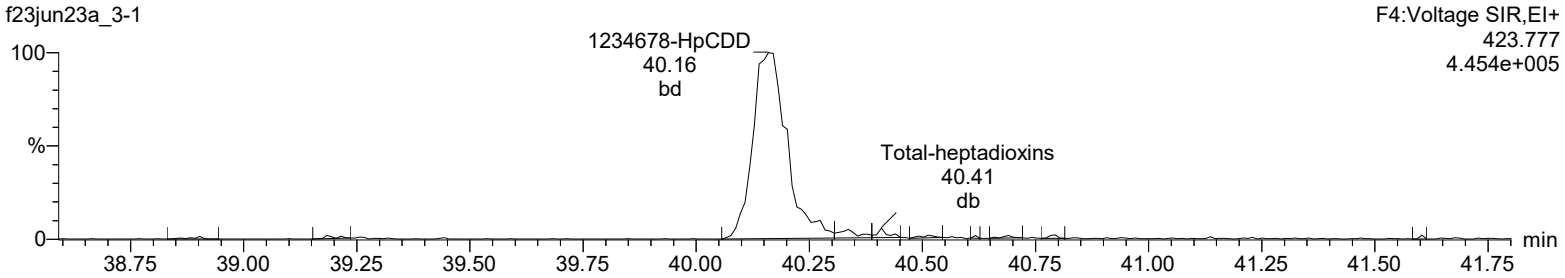
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

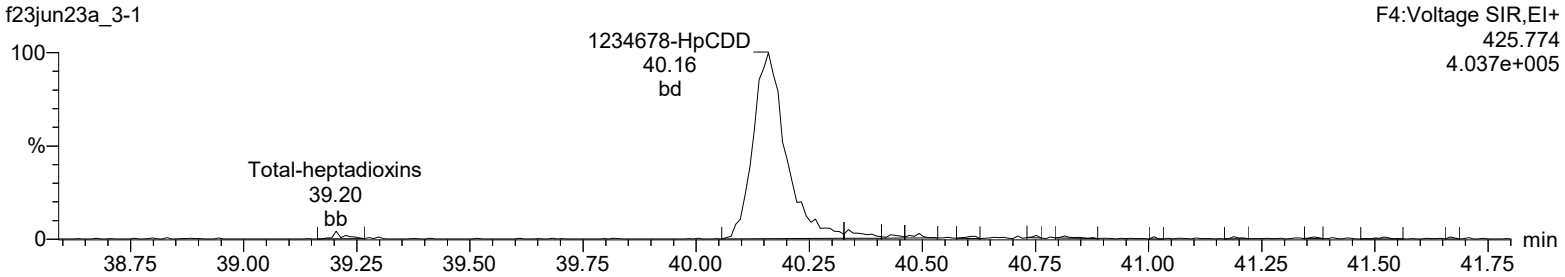
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

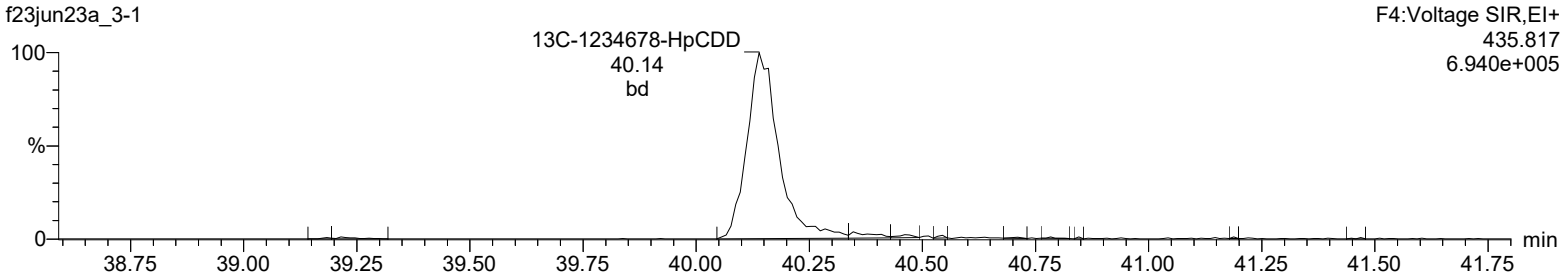
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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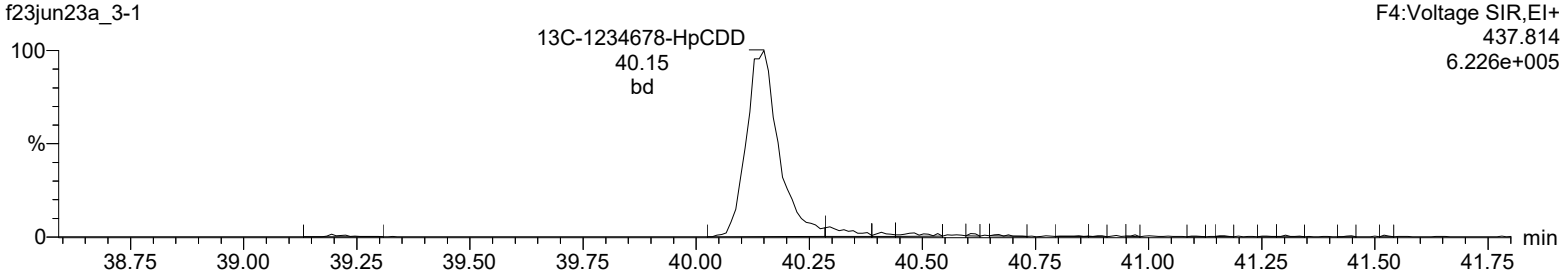
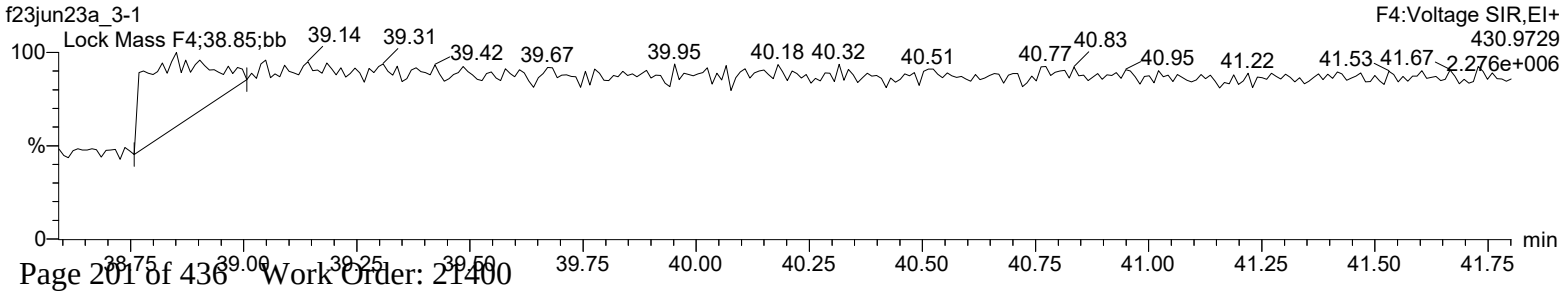


Lock Mass F4



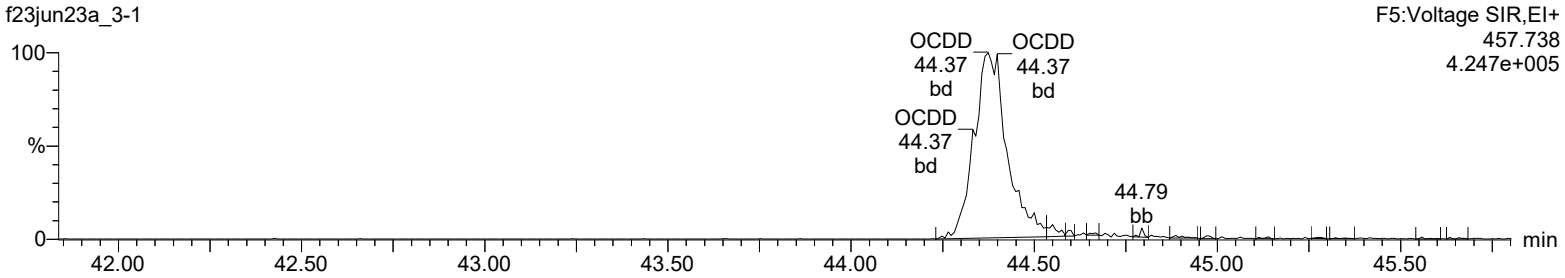
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

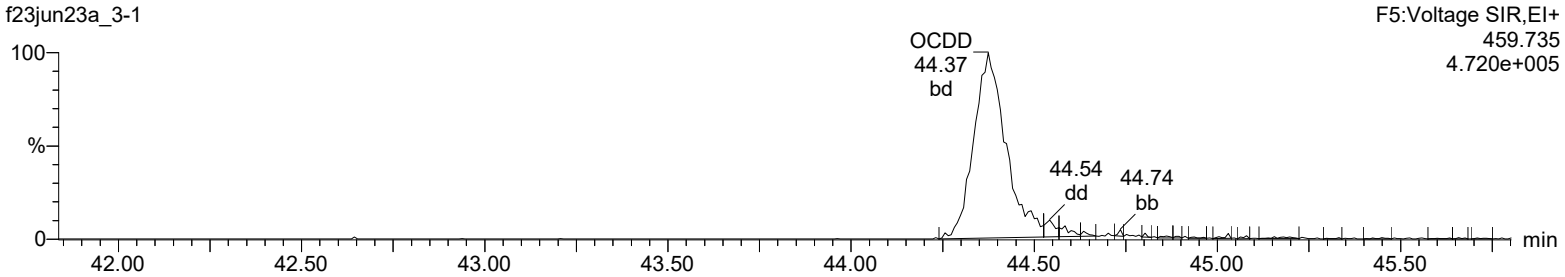
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

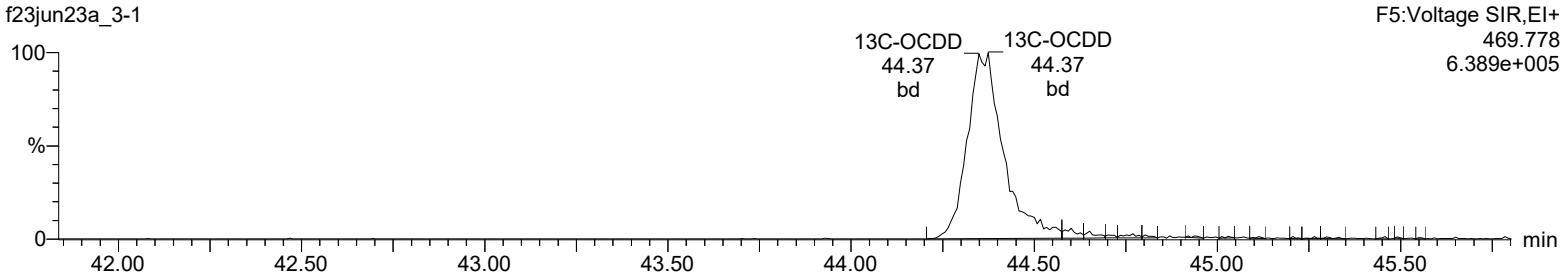
OCDD



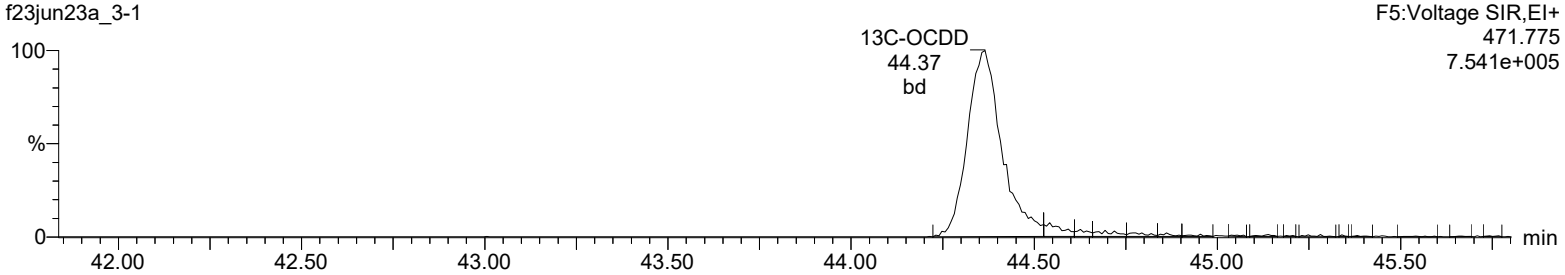
OCDD



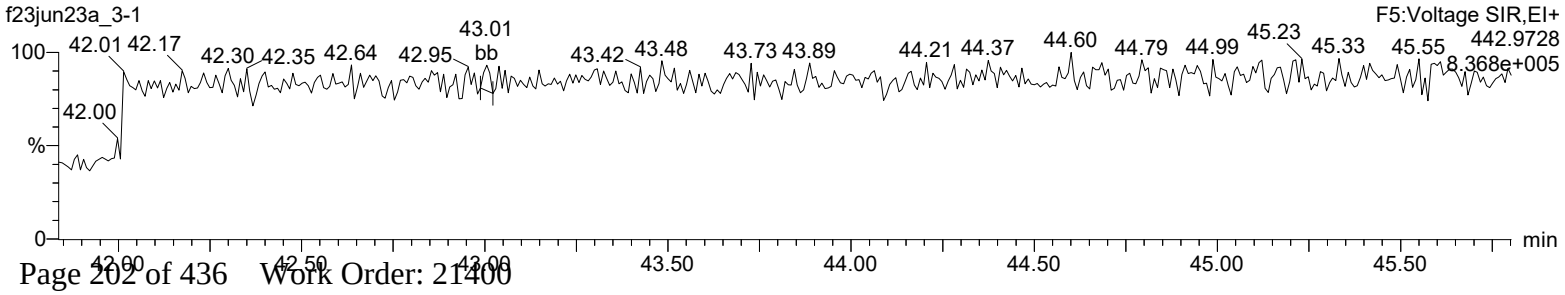
13C-OCDD



13C-OCDD



Lock Mass F5



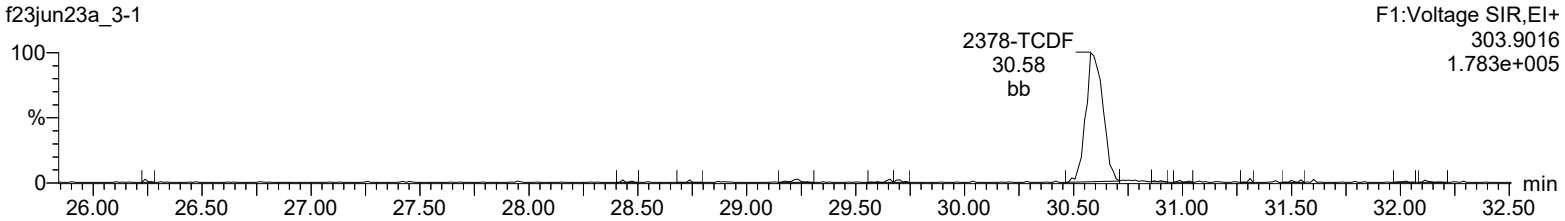
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

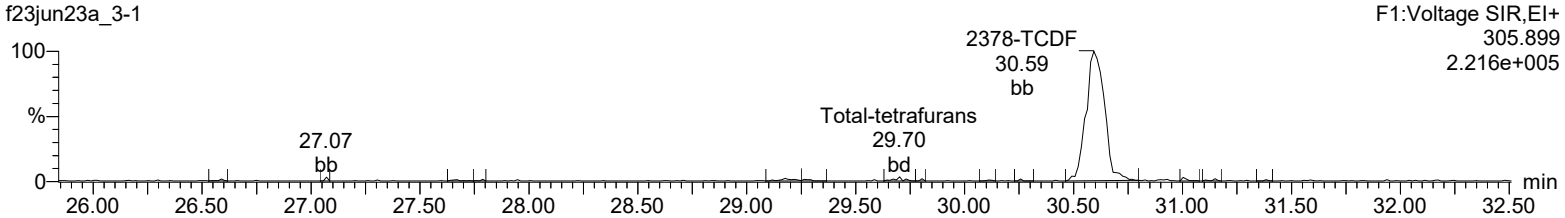
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

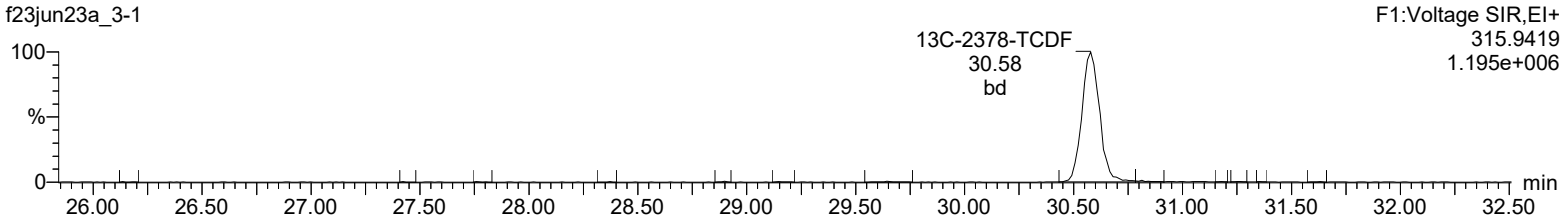
Total-tetrafurans



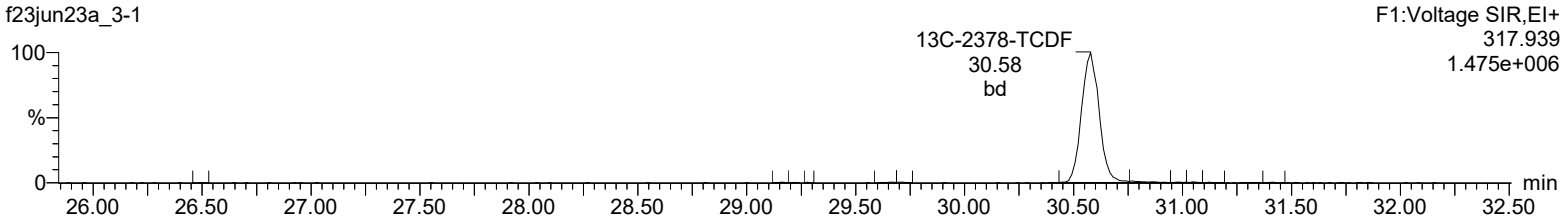
Total-tetrafurans



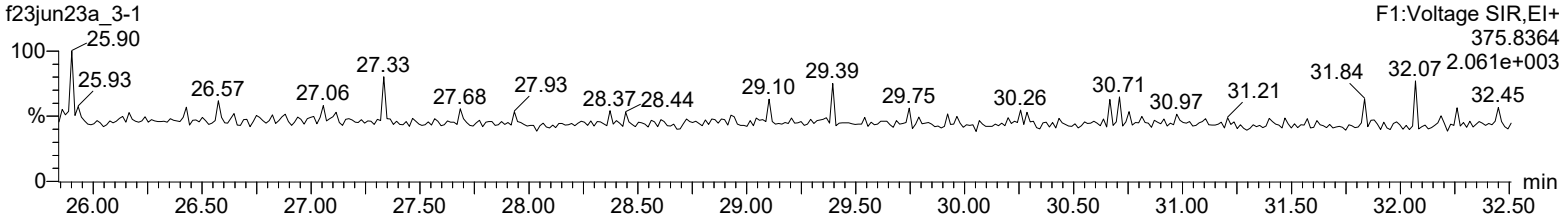
13C-2378-TCDF



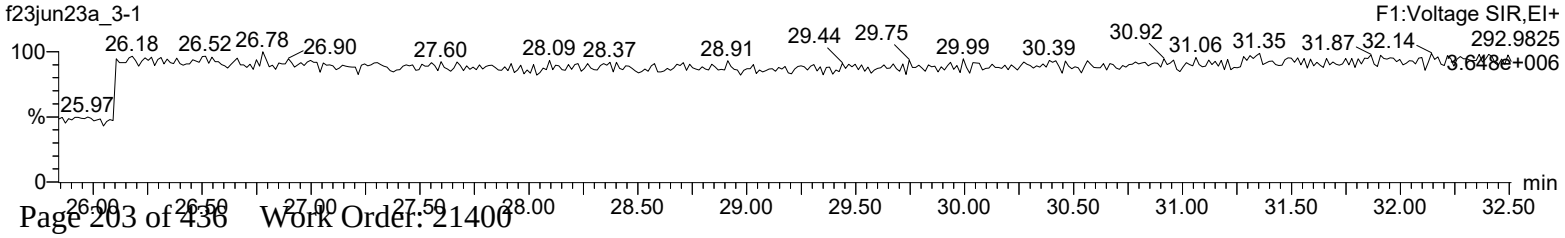
13C-2378-TCDF



HxDPE



Lock Mass F1



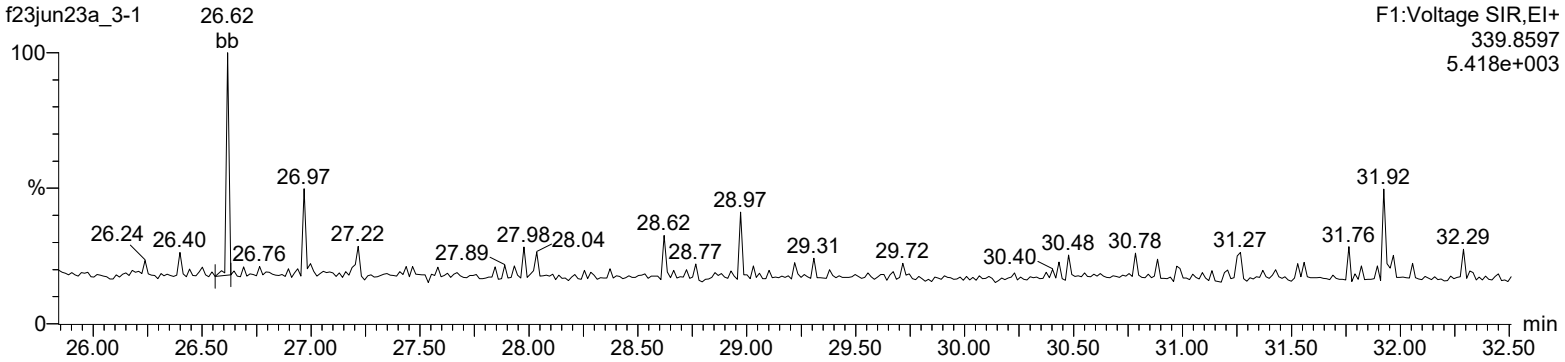
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

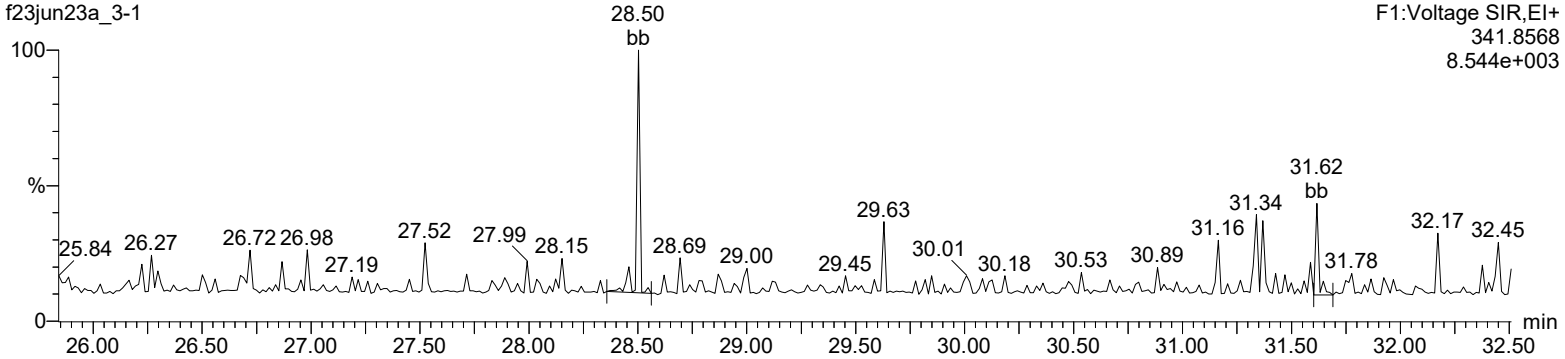
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

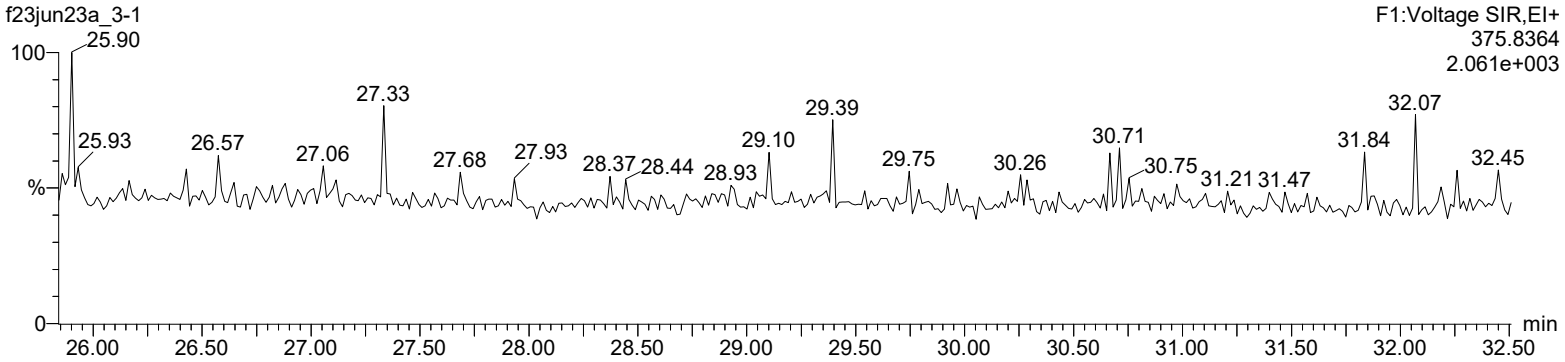
Total-pentafurans (F1)



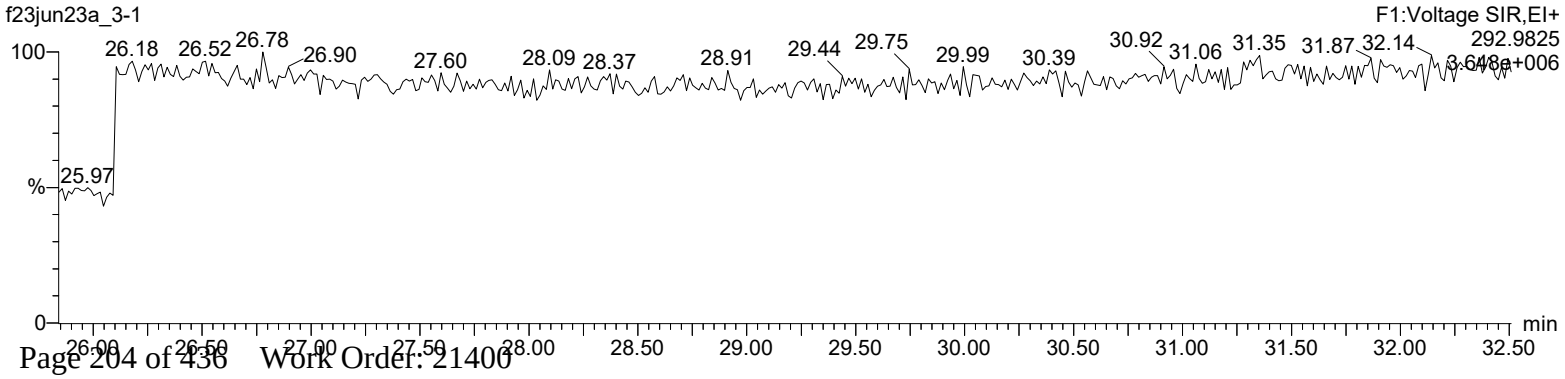
Total-pentafurans (F1)



HxDPE



Lock Mass F1



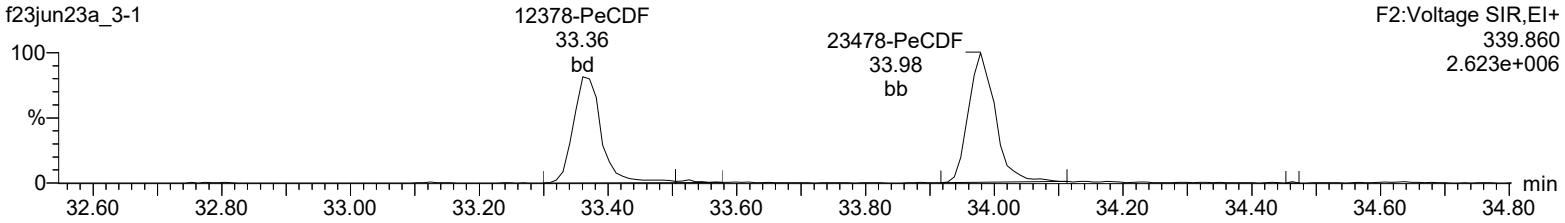
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

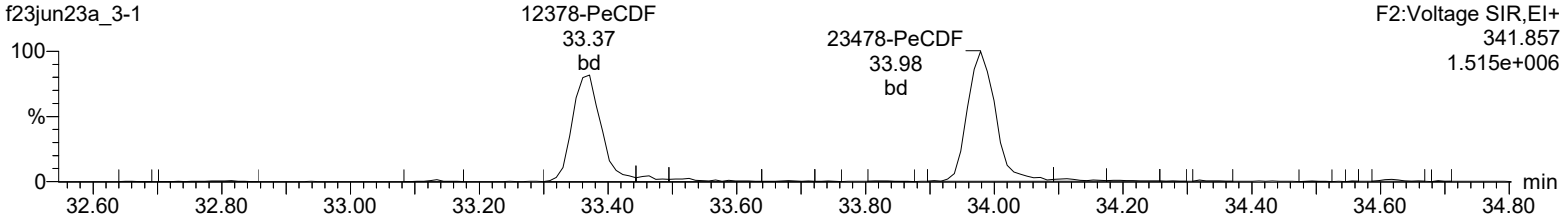
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

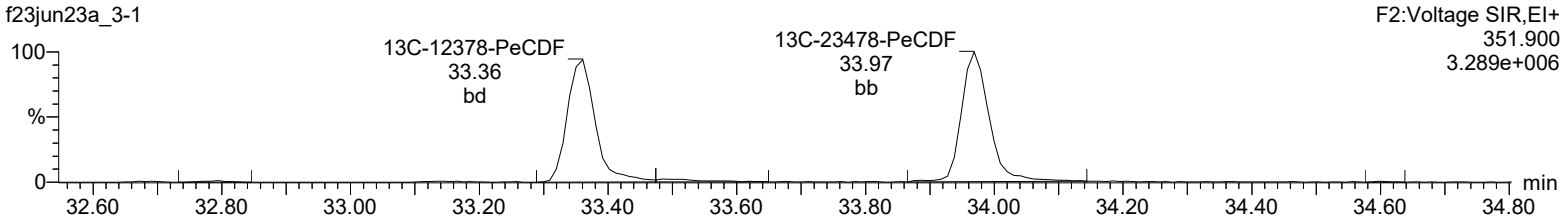
Total-pentafurans



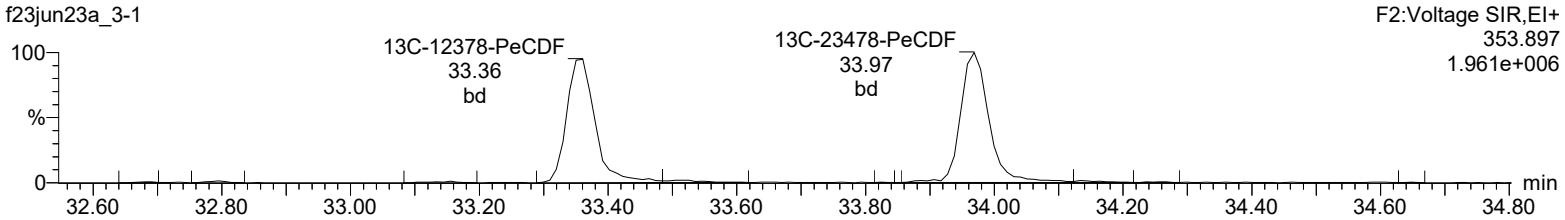
Total-pentafurans



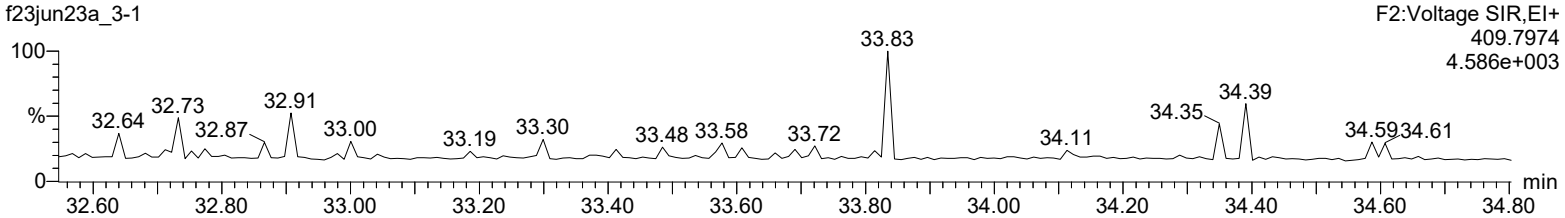
13C-12378-PeCDF



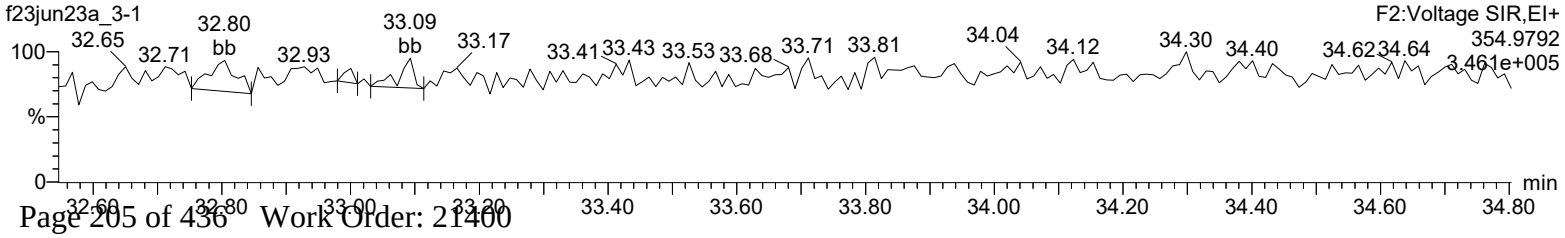
13C-12378-PeCDF



HpDPE



Lock Mass F2



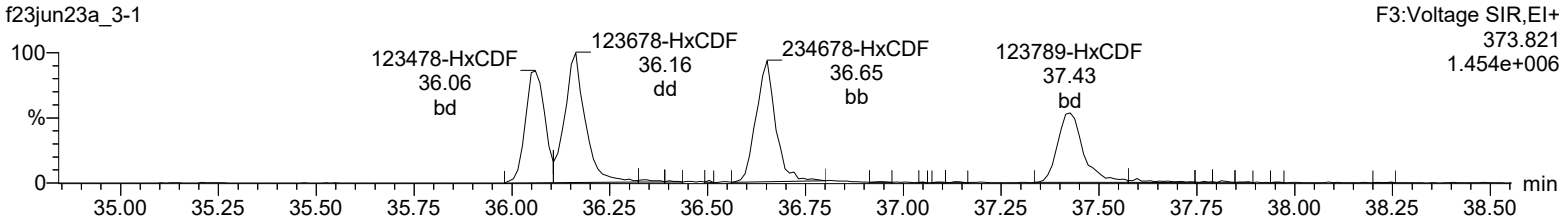
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

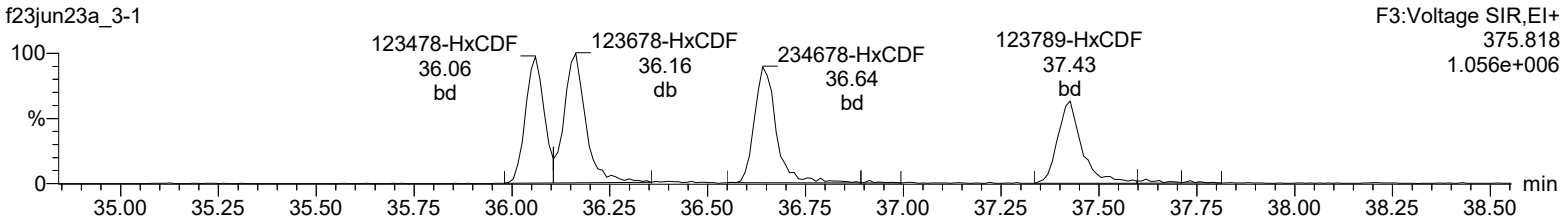
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

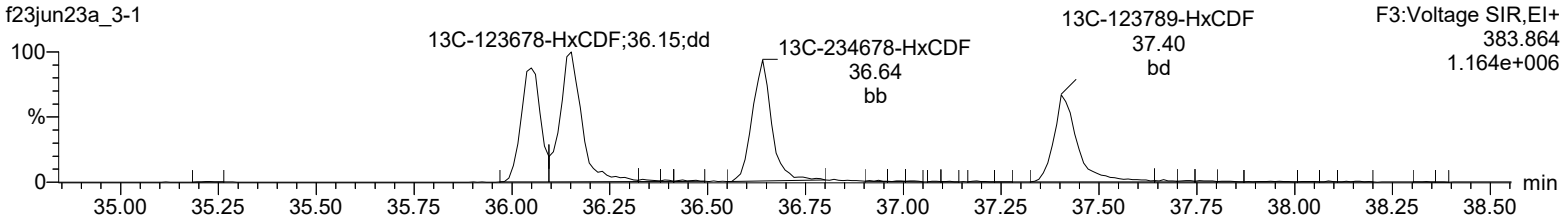
Total-hexafurans



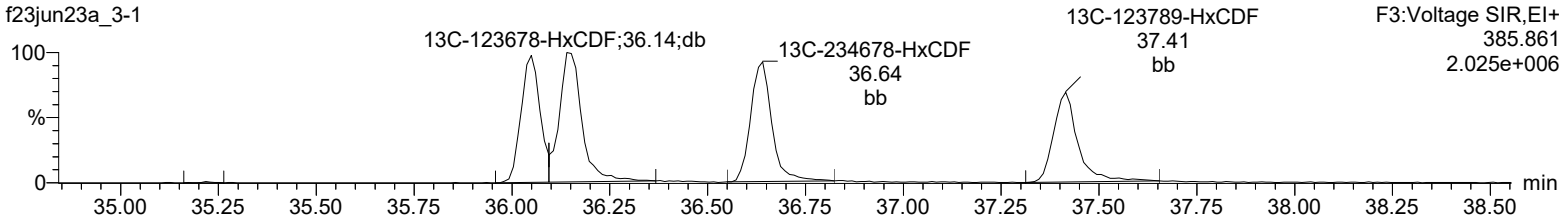
Total-hexafurans



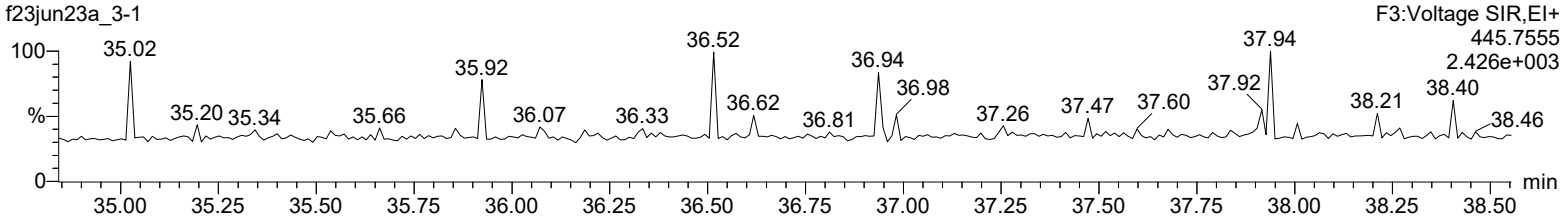
13C-123478-HxCDF



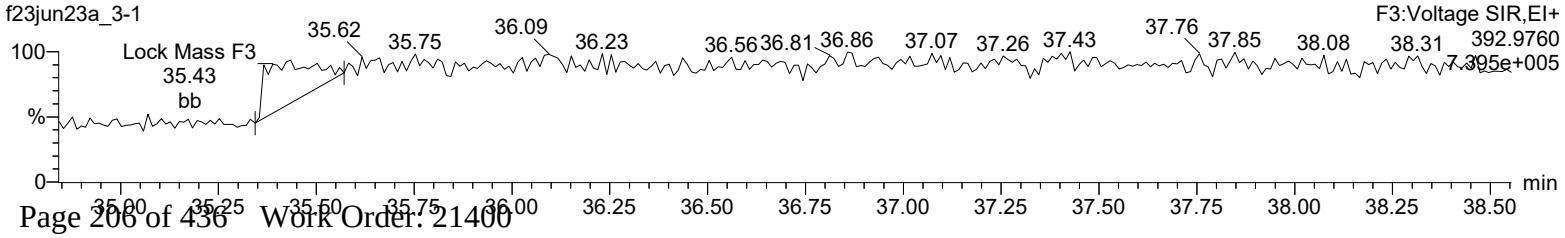
13C-123478-HxCDF



OcDPE



Lock Mass F3



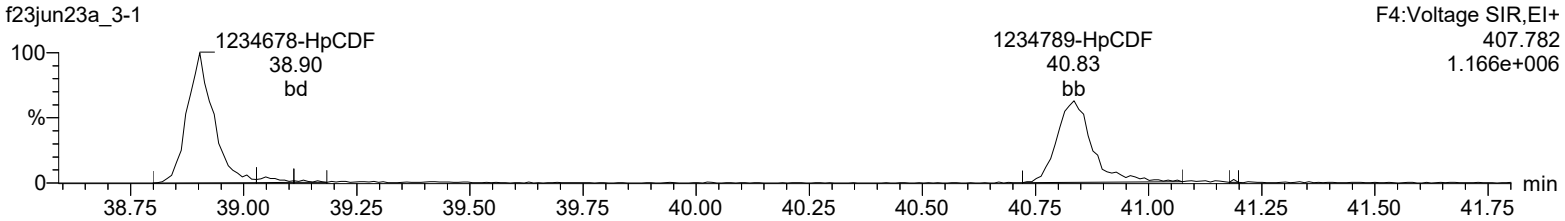
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

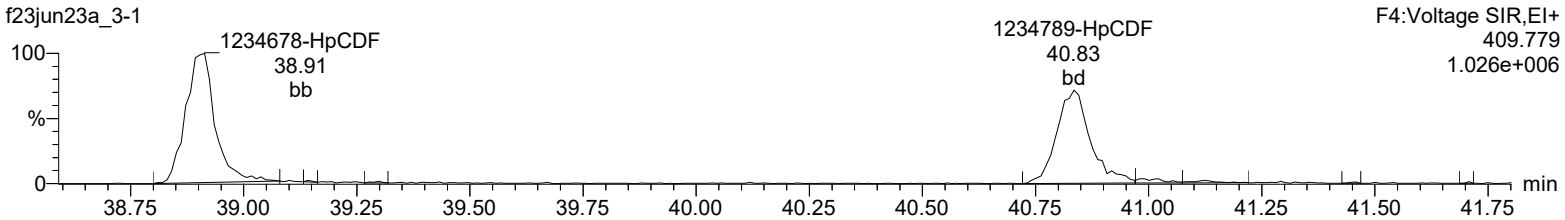
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

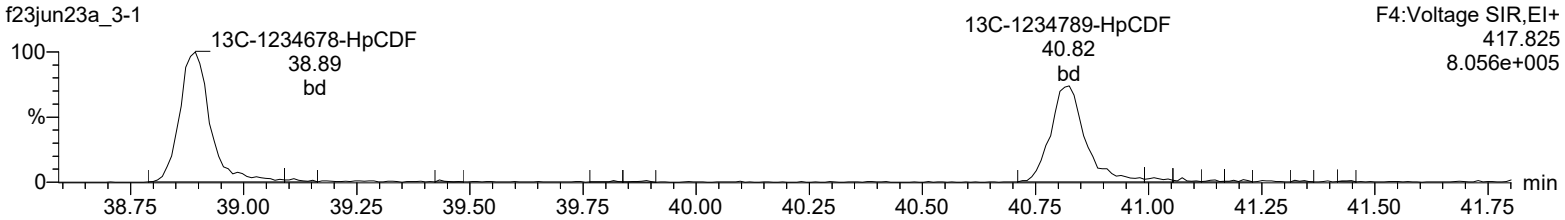
Total-heptafurans



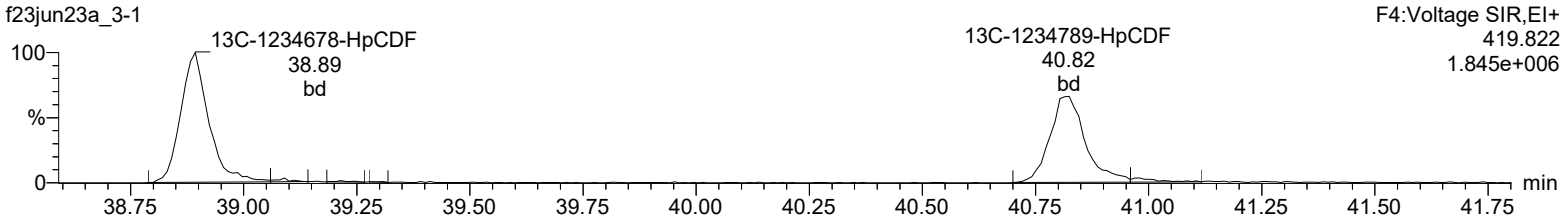
Total-heptafurans



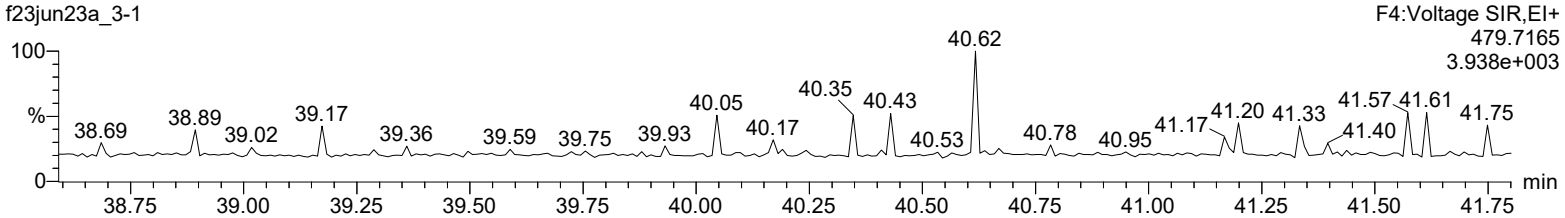
13C-1234678-HpCDF



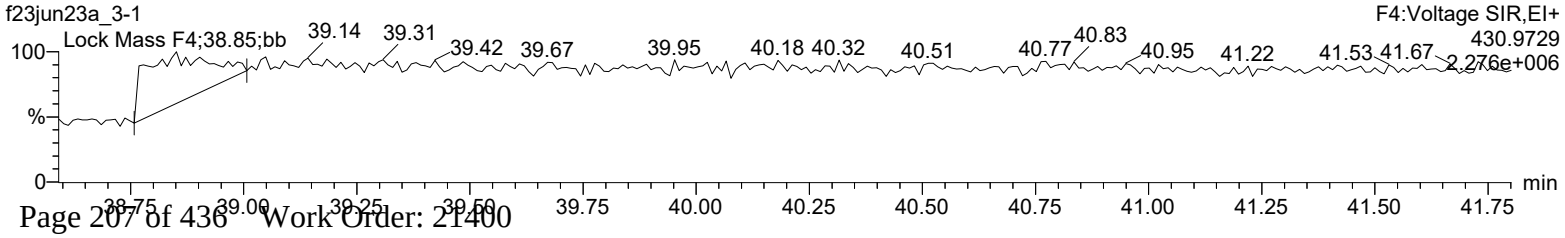
13C-1234678-HpCDF



NoDPE



Lock Mass F4



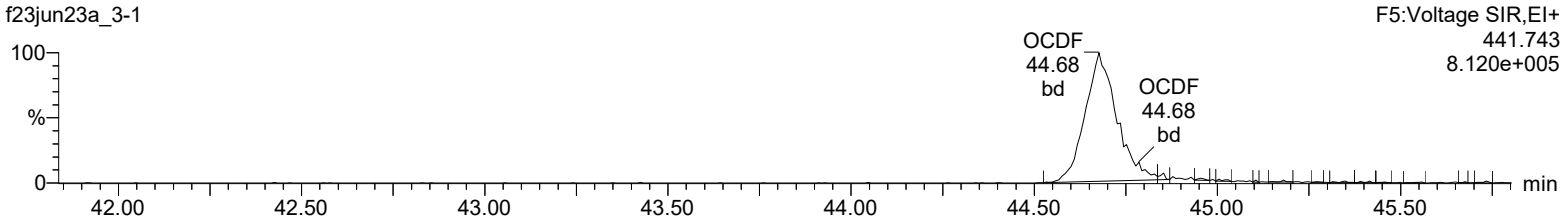
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

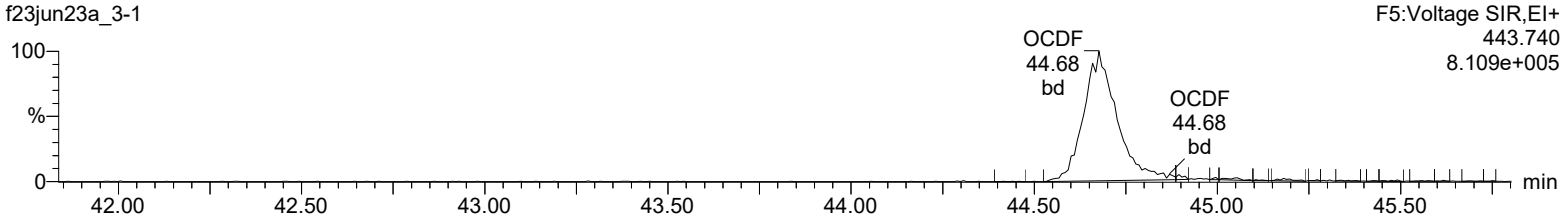
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

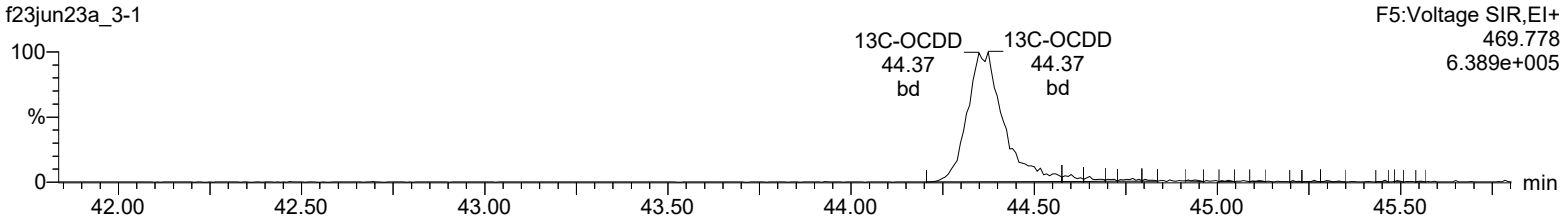
OCDF



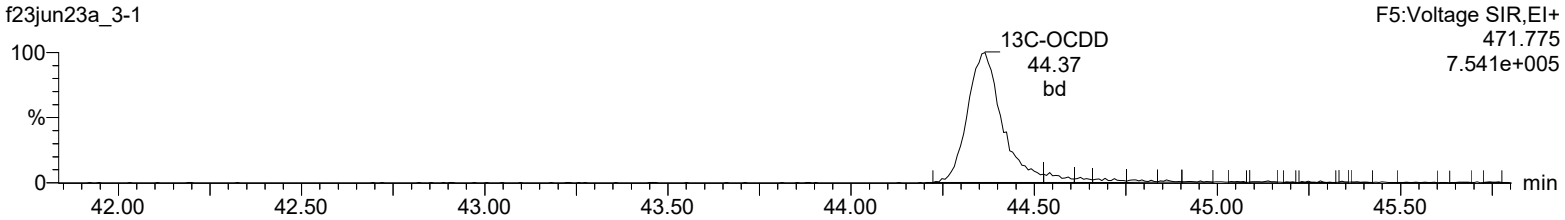
OCDF



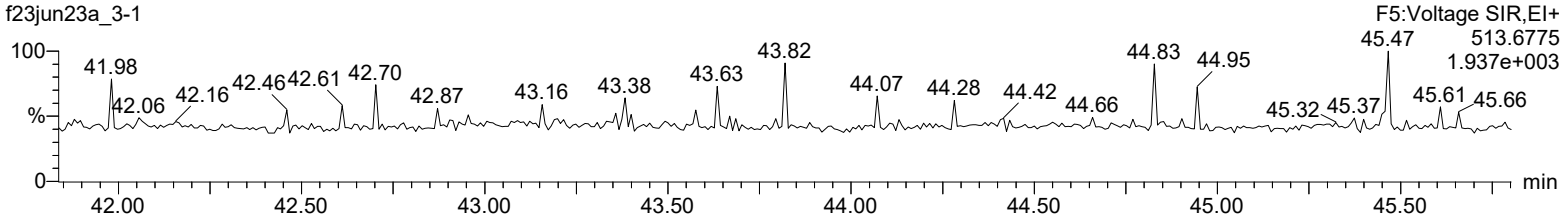
13C-OCDD



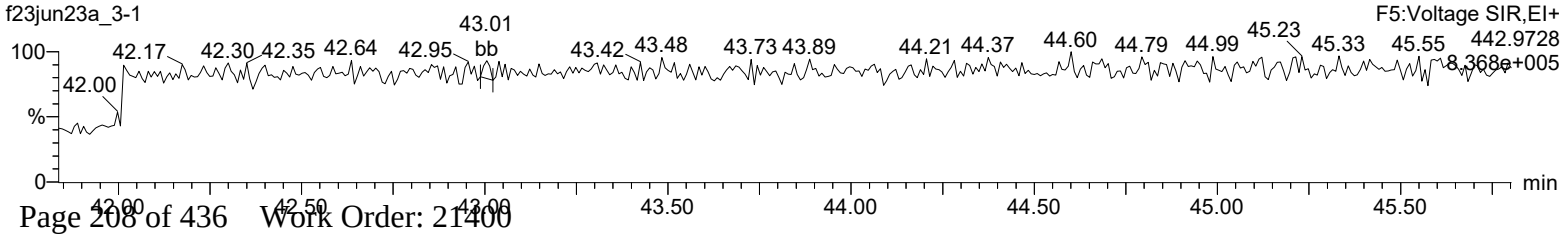
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21400**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034327**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**LCSD for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 09:36**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-2**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		213	pg/L	4.66	5.00
40321-76-4	1,2,3,7,8-PeCDD		998	pg/L	13.5	25.0
39227-28-6	1,2,3,4,7,8-HxCDD		991	pg/L	12.3	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		993	pg/L	11.6	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1050	pg/L	12.0	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		1020	pg/L	17.8	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1980	pg/L	44.8	100
51207-31-9	2,3,7,8-TCDF		224	pg/L	3.36	10.0
57117-41-6	1,2,3,7,8-PeCDF		1040	pg/L	9.86	50.0
57117-31-4	2,3,4,7,8-PeCDF		1080	pg/L	9.38	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1010	pg/L	16.9	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1000	pg/L	15.1	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1030	pg/L	17.2	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1080	pg/L	24.6	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1090	pg/L	17.3	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1070	pg/L	27.2	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		2240	pg/L	31.0	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1320	2000	pg/L	66.2	(20%-175%)
13C-1,2,3,7,8-PeCDD		1380	2000	pg/L	69.2	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1350	2000	pg/L	67.4	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1380	2000	pg/L	69.0	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1310	2000	pg/L	65.3	(22%-166%)
13C-OCDD		2300	4000	pg/L	57.4	(13%-199%)
13C-2,3,7,8-TCDF		1310	2000	pg/L	65.6	(22%-152%)
13C-1,2,3,7,8-PeCDF		1300	2000	pg/L	65.2	(21%-192%)
13C-2,3,4,7,8-PeCDF		1390	2000	pg/L	69.5	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1340	2000	pg/L	67.0	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1300	2000	pg/L	65.1	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1390	2000	pg/L	69.4	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1280	2000	pg/L	63.9	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1260	2000	pg/L	62.9	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1320	2000	pg/L	66.1	(20%-186%)
37Cl-2,3,7,8-TCDD		179	200	pg/L	89.7	(31%-191%)

Comments:

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:19:45 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	8.69e3	1.14e4	2.01e4	31.30	1.001	0.76	NO	10.649	0.233	1.29e5	1116	115.8	1.66e5	1351	122.5	bd	bd
2	12378-PeCDD	4.55e4	2.88e4	7.43e4	34.15	1.000	1.58	NO	49.889	0.674	8.91e5	4136	215.5	5.07e5	3267	155.3	bd	bd
3	123478-HxCDD	3.47e4	2.70e4	6.17e4	36.77	1.001	1.29	NO	49.528	0.617	6.14e5	2057	298.5	4.67e5	3097	150.7	dd	bd
4	123678-HxCDD	4.28e4	3.34e4	7.62e4	36.86	1.001	1.28	NO	49.672	0.581	6.17e5	2057	300.1	4.67e5	3097	150.7	dd	dd
5	123789-HxCDD	4.17e4	3.08e4	7.25e4	37.08	1.007	1.35	NO	52.261	0.598	5.28e5	2057	256.5	4.30e5	3097	138.8	dd	dd
6	1234678-HpCDD	3.59e4	3.05e4	6.64e4	40.14	1.000	1.18	NO	50.927	0.892	4.16e5	2996	138.9	4.07e5	2644	154.0	bd	bb
7	OCDD	4.00e4	4.33e4	8.33e4	44.37	1.000	0.93	NO	98.888	2.24	3.93e5	4012	97.9	4.09e5	2555	160.1	bd	bd
8	2378-TCDF	1.75e4	2.16e4	3.91e4	30.58	1.001	0.81	NO	11.184	0.168	2.18e5	967	225.1	2.29e5	1489	153.9	bd	bd
9	12378-PeCDF	1.03e5	6.54e4	1.68e5	33.35	1.000	1.57	NO	51.803	0.493	2.29e6	8407	272.3	1.31e6	4922	265.5	bb	bd
10	23478-PeCDF	1.19e5	7.41e4	1.93e5	33.96	1.000	1.61	NO	54.198	0.469	2.43e6	8407	289.3	1.49e6	4922	302.0	bb	bb
11	123478-HxCDF	7.11e4	5.46e4	1.26e5	36.05	1.001	1.30	NO	50.414	0.846	1.19e6	7228	165.1	9.29e5	7015	132.4	bd	bd
12	123678-HxCDF	8.25e4	6.35e4	1.46e5	36.15	1.001	1.30	NO	50.121	0.754	1.25e6	7228	173.0	9.35e5	7015	133.3	dd	dd
13	234678-HxCDF	7.81e4	5.96e4	1.38e5	36.63	1.000	1.31	NO	51.345	0.862	1.16e6	7228	159.8	9.27e5	7015	132.1	bd	bd
14	123789-HxCDF	6.00e4	4.82e4	1.08e5	37.40	1.000	1.25	NO	53.809	1.23	7.94e5	7228	109.9	6.73e5	7015	96.0	dd	bd
15	1234678-HpCDF	7.73e4	7.15e4	1.49e5	38.88	1.000	1.08	NO	54.722	0.867	1.01e6	6221	161.7	9.73e5	6950	140.0	bd	bd
16	1234789-HpCDF	5.76e4	5.97e4	1.17e5	40.80	1.000	0.96	NO	53.446	1.36	6.68e5	6221	107.4	7.46e5	6950	107.4	bb	bd
17	OCDF	7.03e4	7.91e4	1.49e5	44.68	1.007	0.89	NO	112.085	1.55	6.50e5	3812	170.4	7.74e5	3355	230.7	bd	bd
18	13C-2378-TCDD	7.71e4	9.42e4	1.71e5	31.27	1.017	0.82	NO	66.198	0.454	1.08e6	2974	363.7	1.33e6	2690	495.7	bd	bd
19	13C-12378-PeCDD	7.79e4	4.99e4	1.28e5	34.14	1.110	1.56	NO	69.163	0.859	1.44e6	3417	420.9	9.41e5	4236	222.2	bb	bd
20	13C-123478-HxCDD	6.49e4	5.12e4	1.16e5	36.74	0.991	1.27	NO	67.415	1.29	1.09e6	5421	200.9	9.09e5	6238	145.8	bd	bd
21	13C-123678-HxCDD	8.14e4	6.27e4	1.44e5	36.83	0.993	1.30	NO	69.041	1.07	1.18e6	5421	217.2	9.04e5	6238	144.9	dd	dd
22	13C-1234678-HpCDD	5.56e4	5.06e4	1.06e5	40.14	1.082	1.10	NO	65.288	0.914	6.75e5	4414	152.8	6.23e5	3369	185.0	bd	bd
23	13C-OCDD	7.18e4	8.03e4	1.52e5	44.36	1.196	0.89	NO	114.760	1.13	6.24e5	3348	186.5	6.96e5	4506	154.5	bd	bd
24	13C-2378-TCDF	1.15e5	1.44e5	2.58e5	30.55	0.993	0.80	NO	65.570	0.214	1.20e6	1794	669.7	1.45e6	2266	640.3	bb	bd
25	13C-12378-PeCDF	1.61e5	9.35e4	2.55e5	33.34	1.084	1.73	NO	65.219	0.947	3.36e6	10457	321.1	1.89e6	7388	255.5	bd	bd
26	13C-23478-PeCDF	1.58e5	9.77e4	2.56e5	33.96	1.104	1.62	NO	69.500	1.01	3.15e6	10457	301.5	1.94e6	7388	263.1	bb	bd
27	13C-123478-HxCDF	6.00e4	1.16e5	1.76e5	36.03	0.971	0.52	NO	67.022	0.937	1.01e6	5923	171.0	1.92e6	6949	277.0	bd	bd
28	13C-123678-HxCDF	7.41e4	1.37e5	2.11e5	36.13	0.974	0.54	NO	65.117	0.757	1.20e6	5923	202.8	2.11e6	6949	303.1	dd	dd
29	13C-234678-HxCDF	6.76e4	1.21e5	1.89e5	36.62	0.987	0.56	NO	69.373	0.904	1.04e6	5923	175.9	1.90e6	6949	273.5	bd	bd
30	13C-123789-HxCDF	5.28e4	1.02e5	1.54e5	37.40	1.009	0.52	NO	63.853	1.02	7.58e5	5923	128.0	1.40e6	6949	201.2	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:19:45 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	6.08e4	1.36e5	1.96e5	38.88	1.048	0.45	NO	62.915	1.00	8.49e5	6956	122.0	1.76e6	9389	187.0	bb	bb
32	13C-1234789-HpCDF	4.93e4	1.12e5	1.61e5	40.81	1.101	0.44	NO	66.115	1.28	5.42e5	6956	78.0	1.27e6	9389	135.5	bd	bb
33	13C-1234-TCDD	1.02e5	1.26e5	2.27e5	30.75	0.000	0.81	NO	100.000	0.517	1.23e6	2974	412.6	1.49e6	2690	555.5	bd	bd
34	13C-123789-HxCDD	1.14e5	8.93e4	2.03e5	37.08	0.000	1.27	NO	100.000	1.10	1.49e6	5421	275.0	1.15e6	6238	185.1	dd	dd
35	37Cl-2378-TCDD	2.29e4		2.29e4	31.30	1.018			8.965	0.103	3.25e5	1268	256.1				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

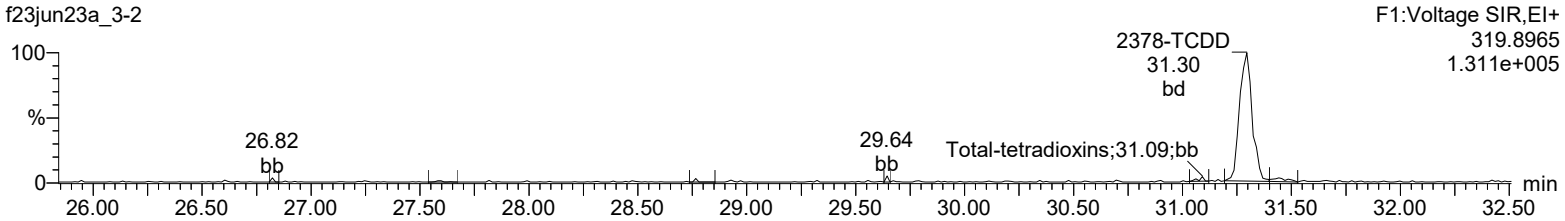
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

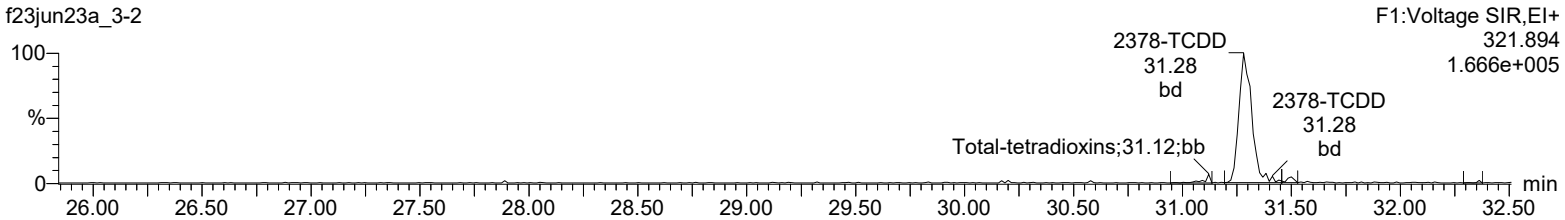
06/28/2023

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

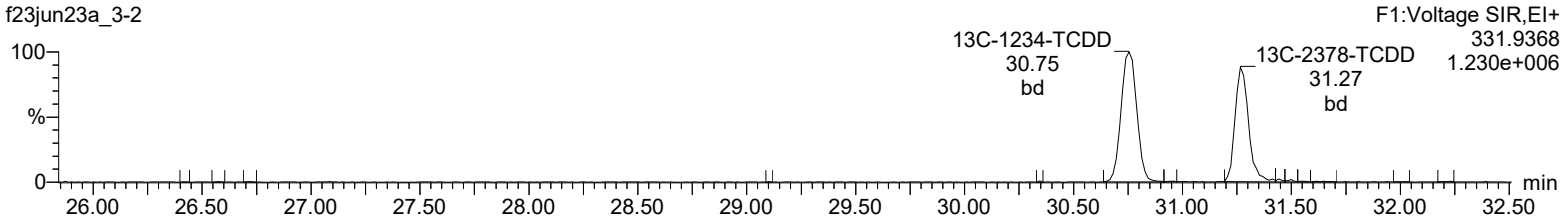
Total-tetradioxins



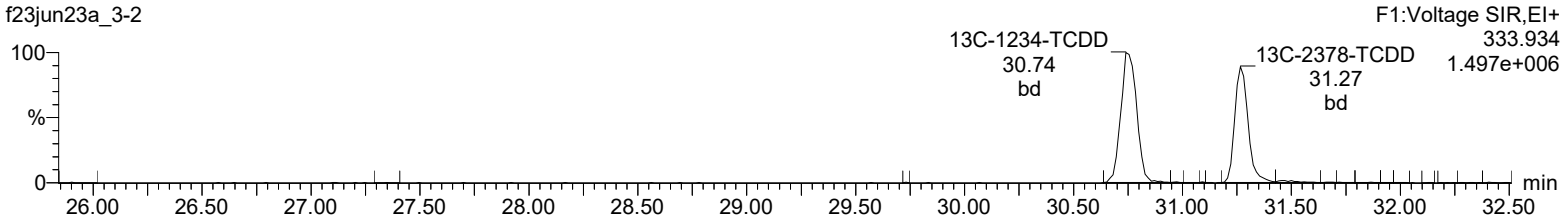
Total-tetradioxins



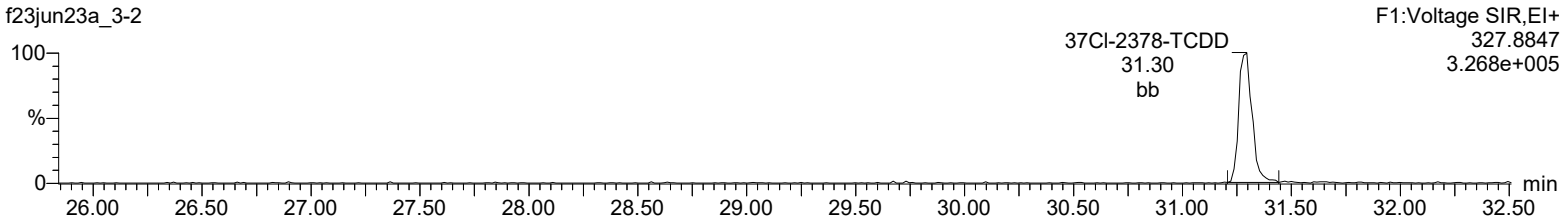
13C-2378-TCDD



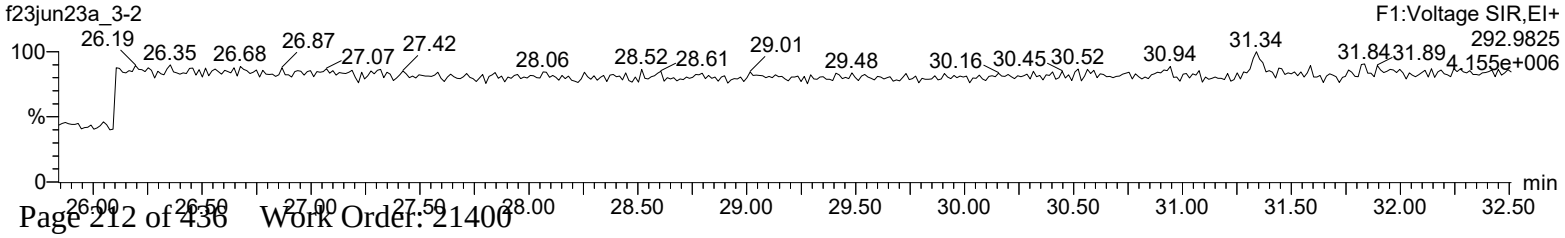
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



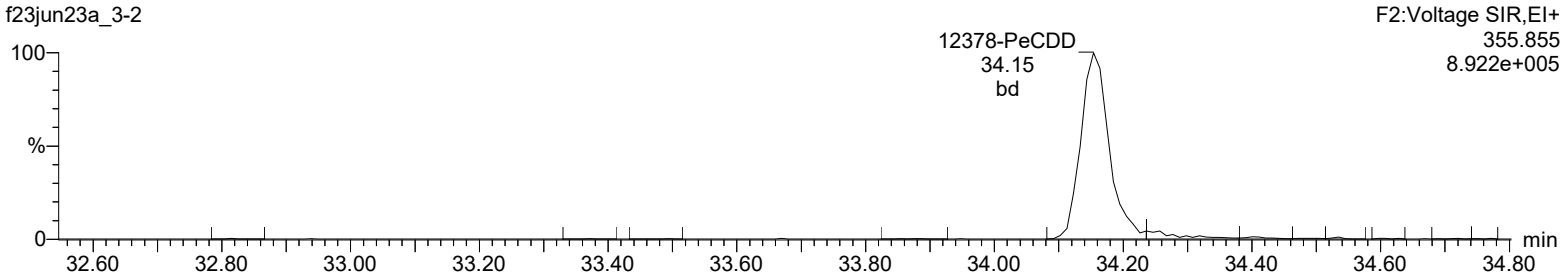
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

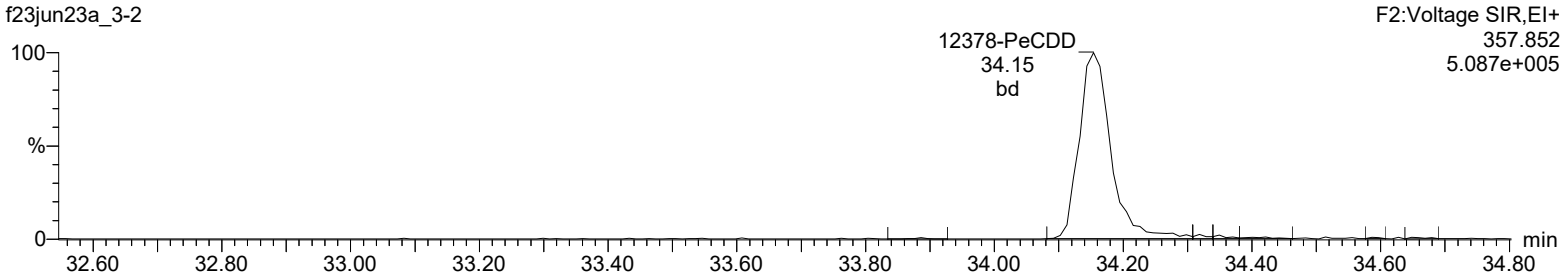
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

Total-pentadioxins



Total-pentadioxins



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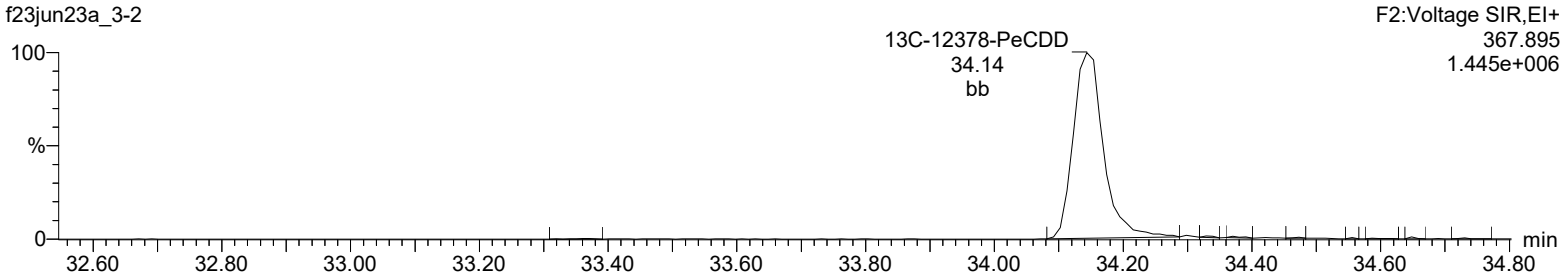

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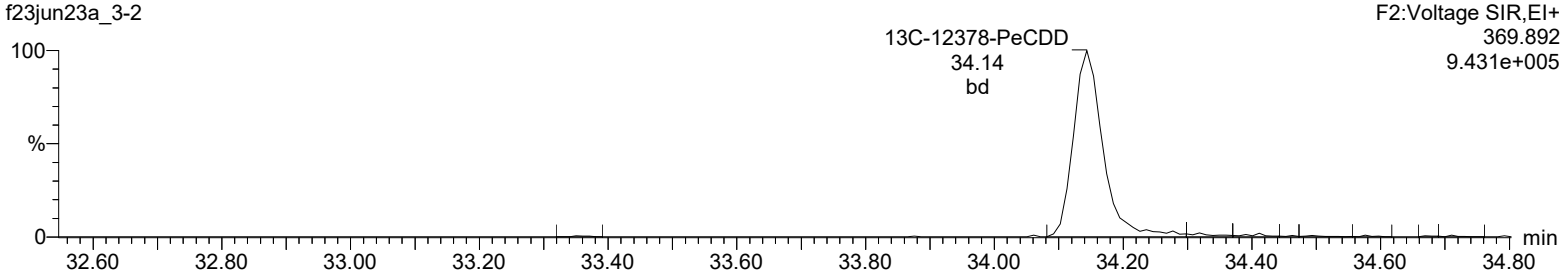
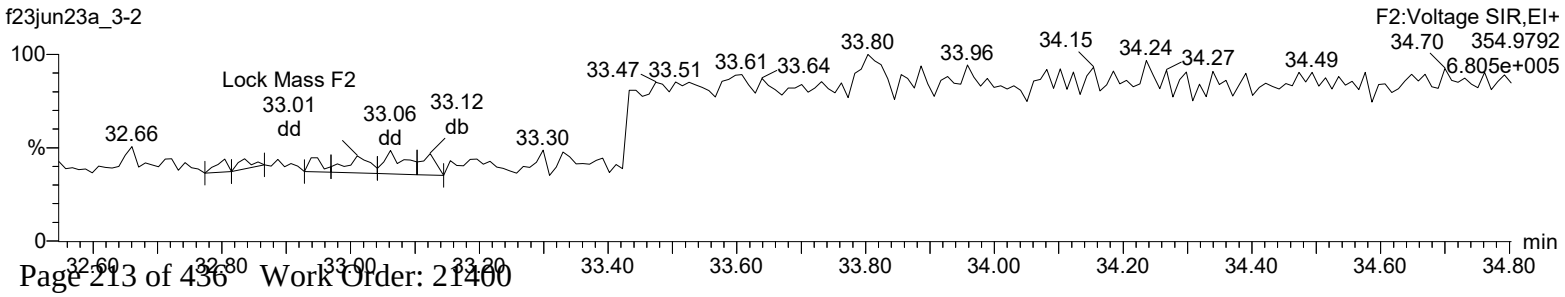


Lock Mass F2



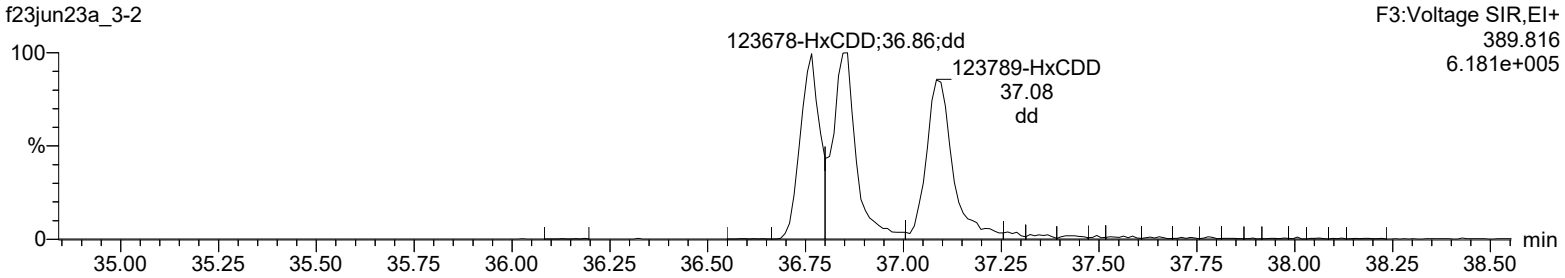
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

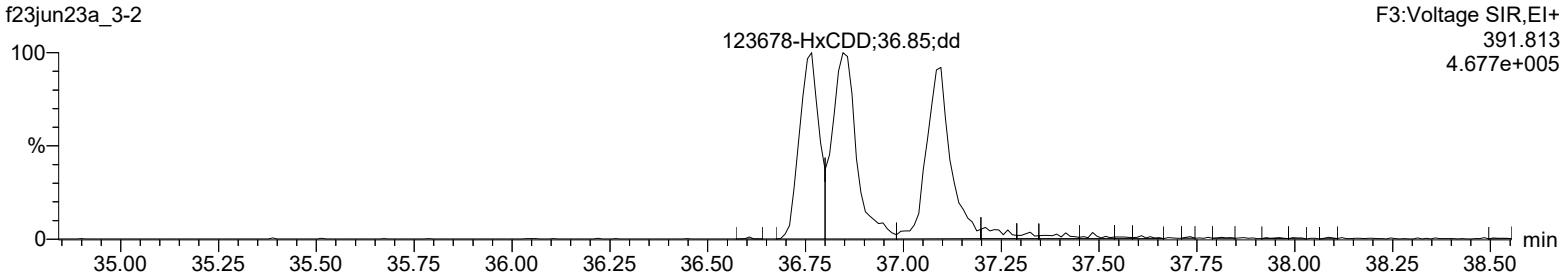
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

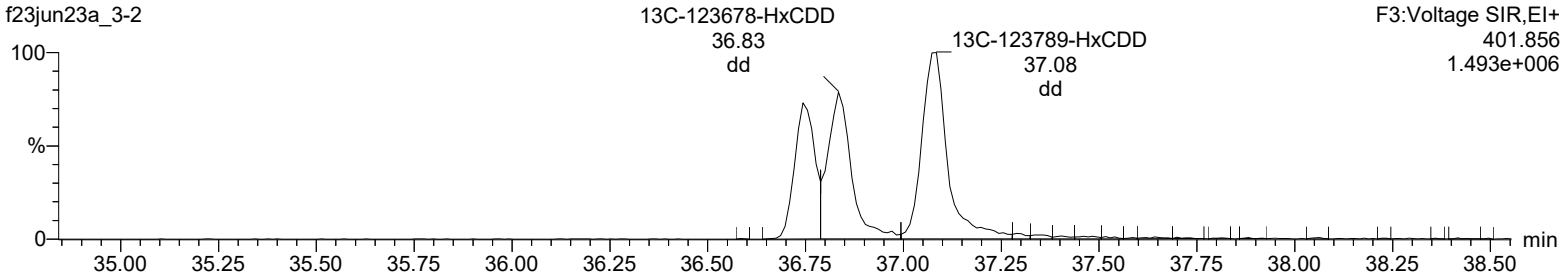
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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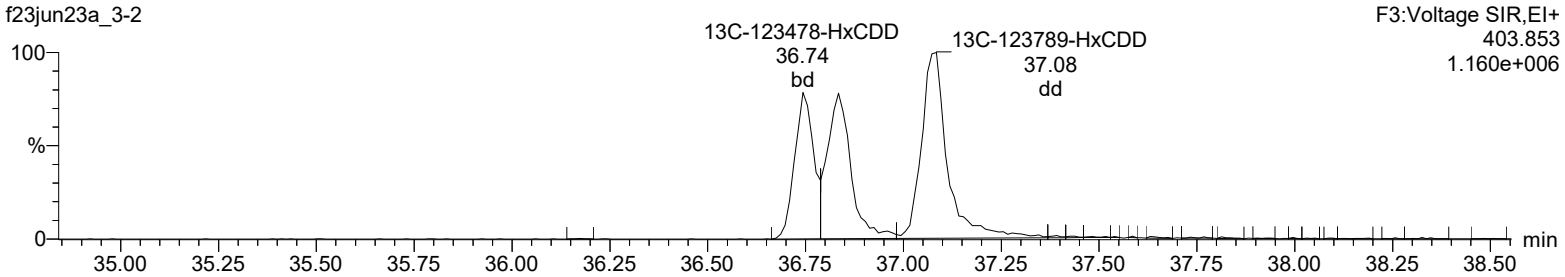
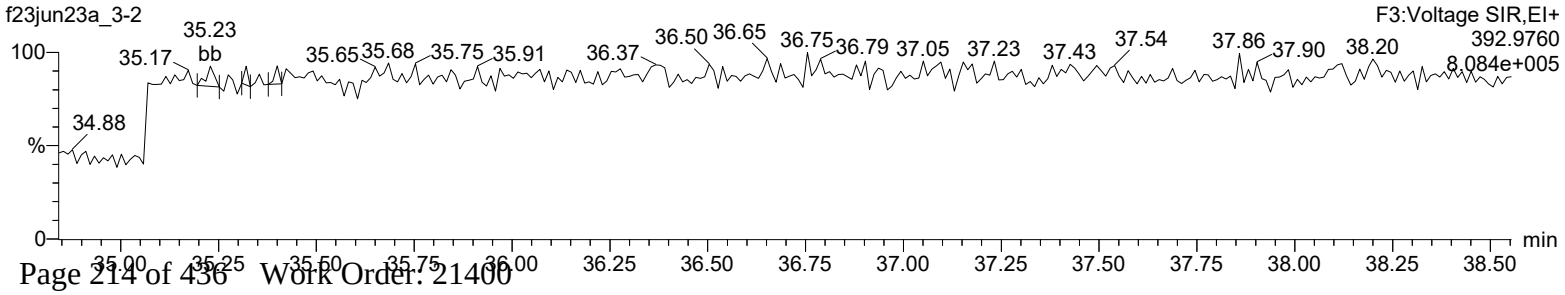


Lock Mass F3



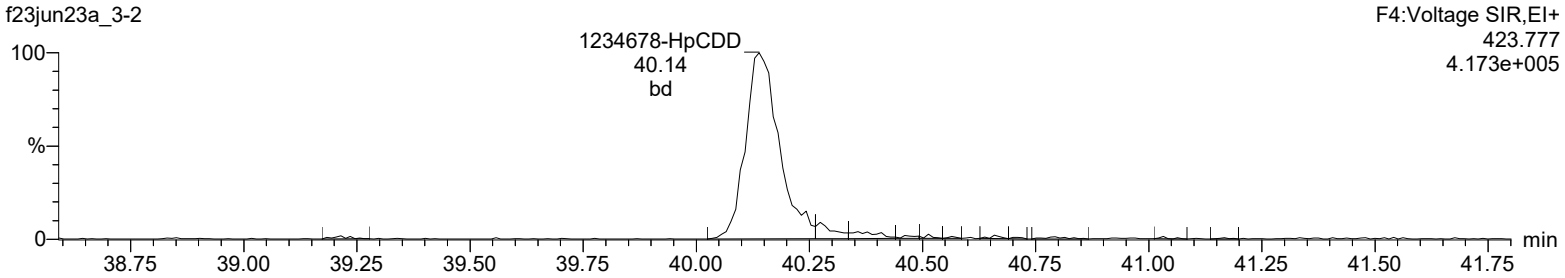
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

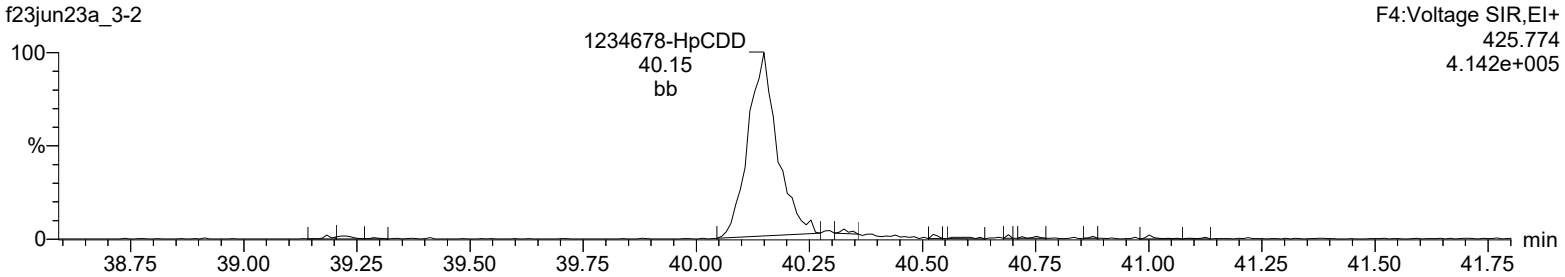
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

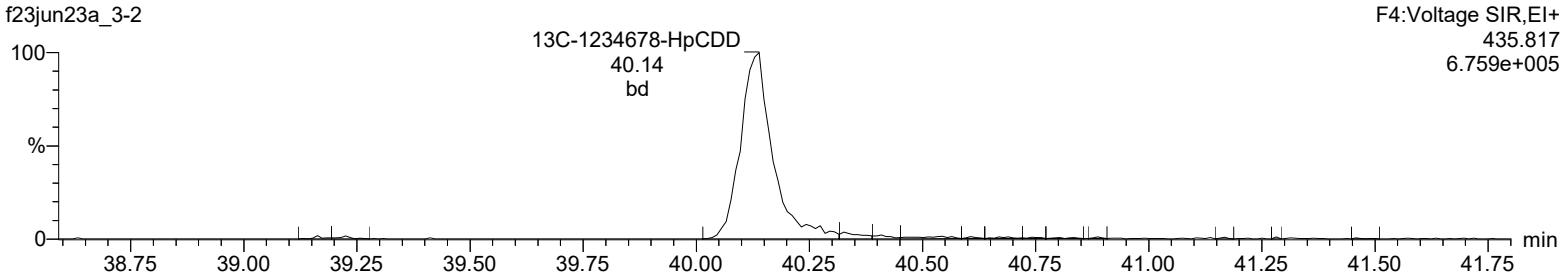
Total-heptadioxins



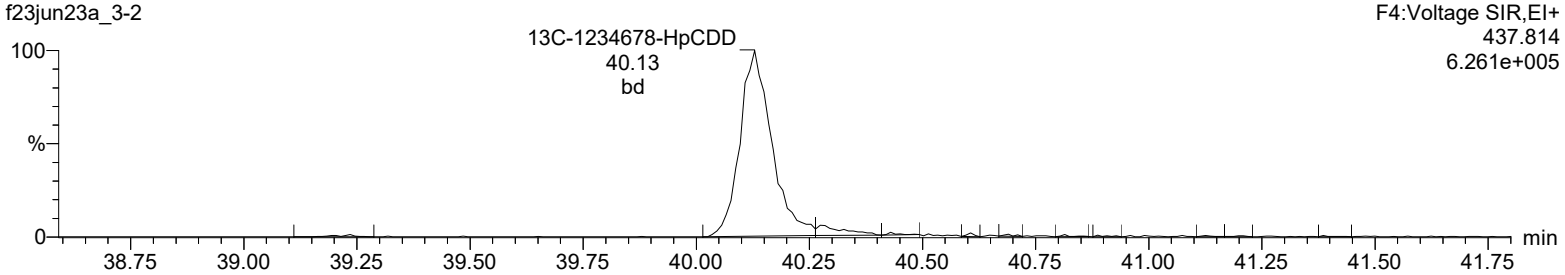
Total-heptadioxins



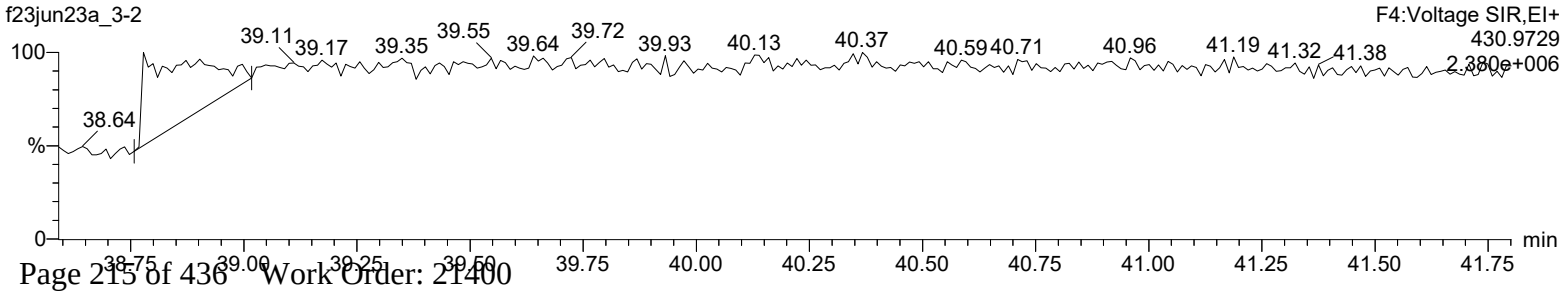
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



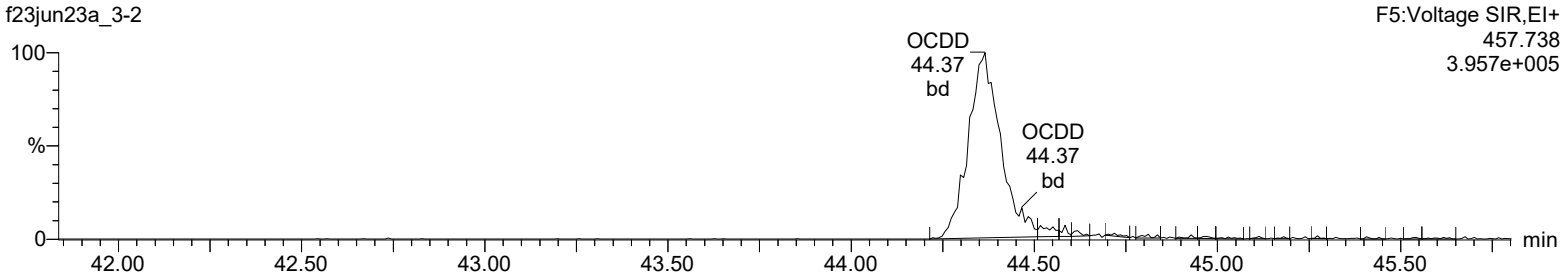
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

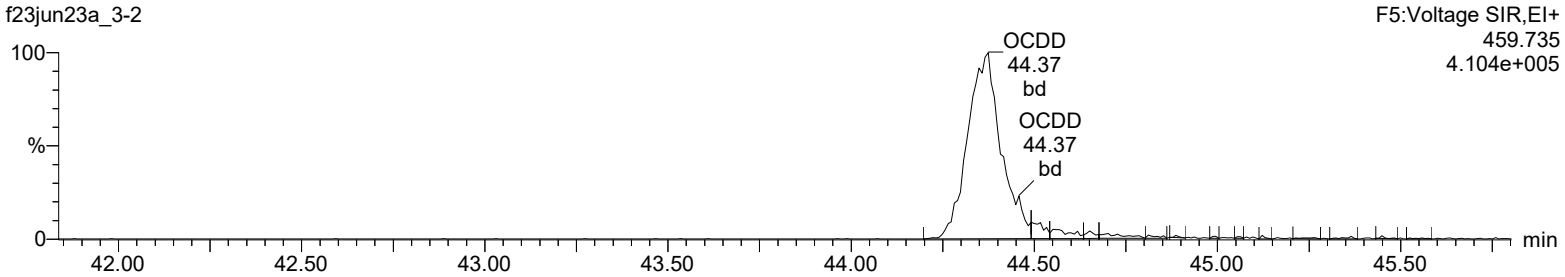
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

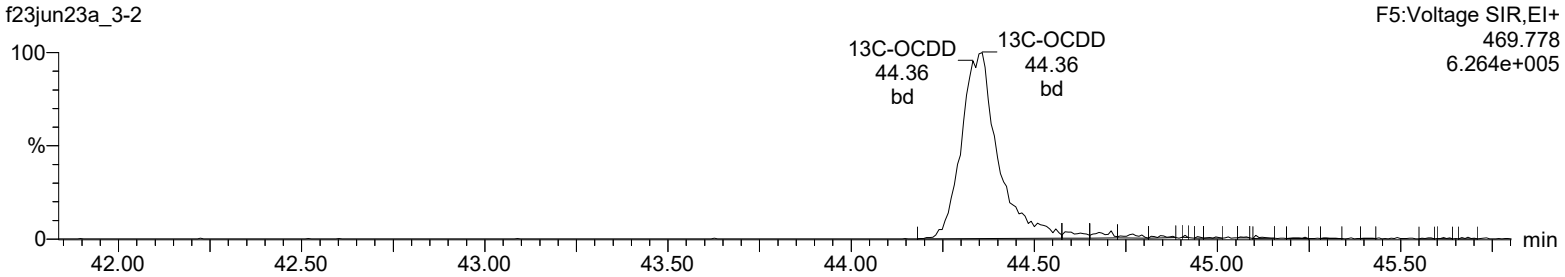
OCDD



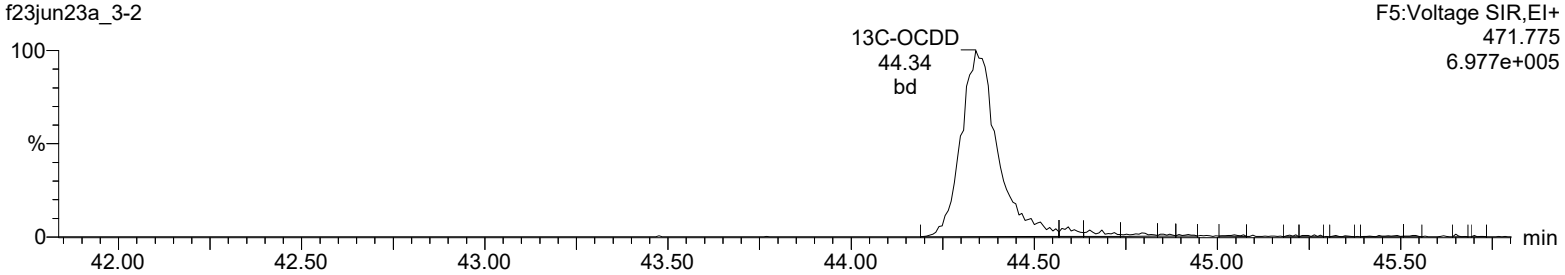
OCDD



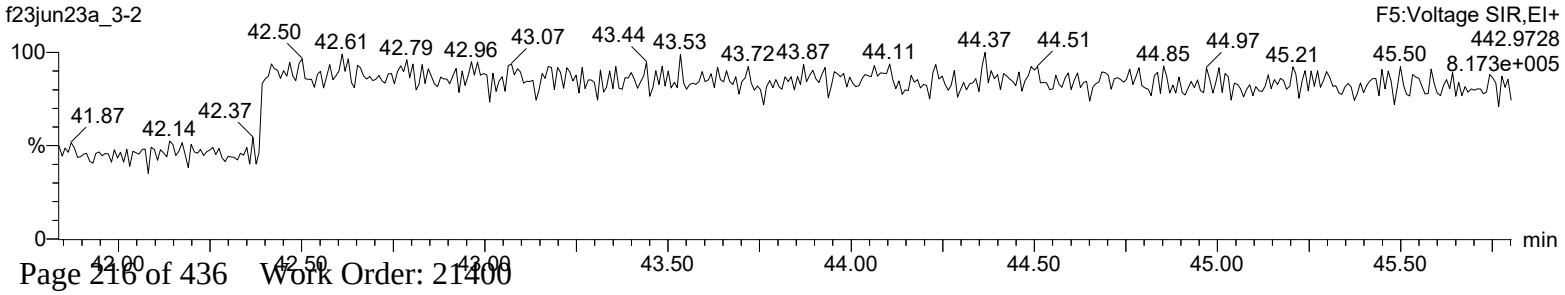
13C-OCDD



13C-OCDD



Lock Mass F5



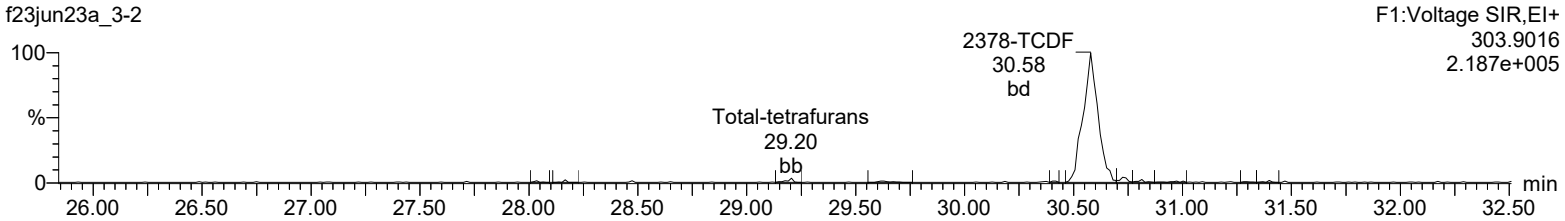
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

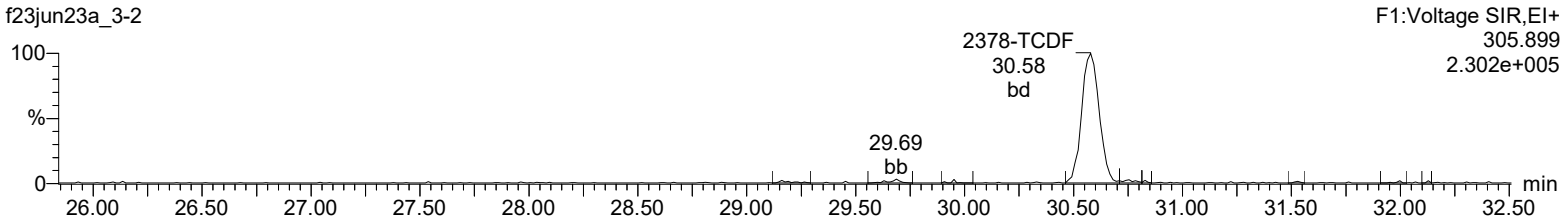
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

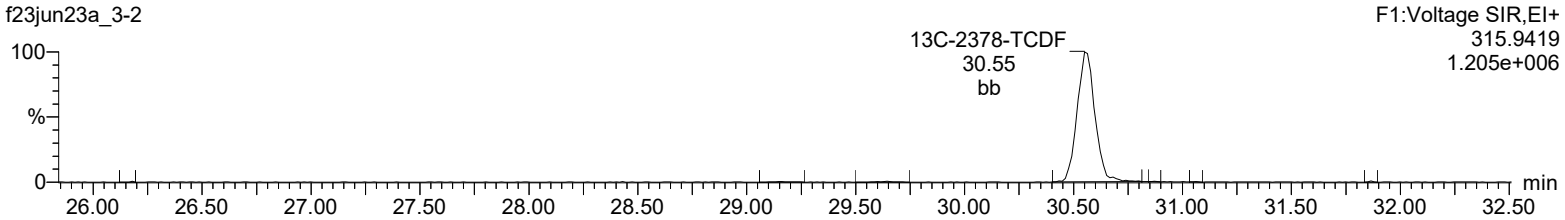
Total-tetrafurans



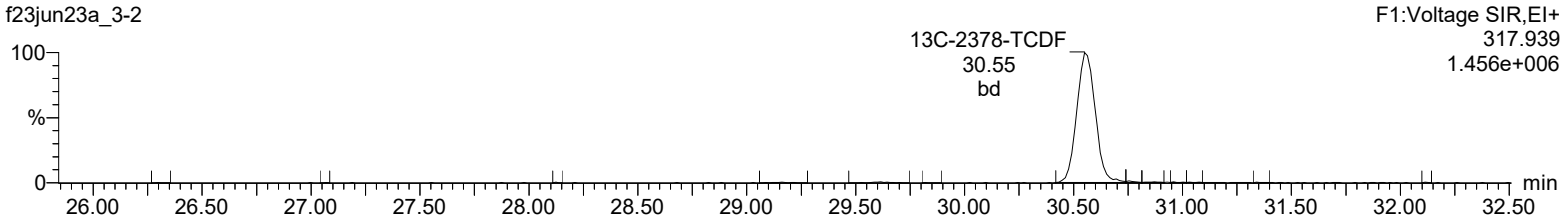
Total-tetrafurans



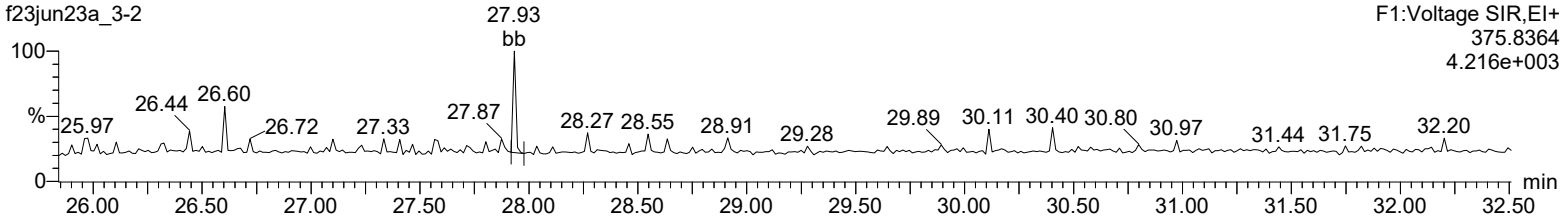
13C-2378-TCDF



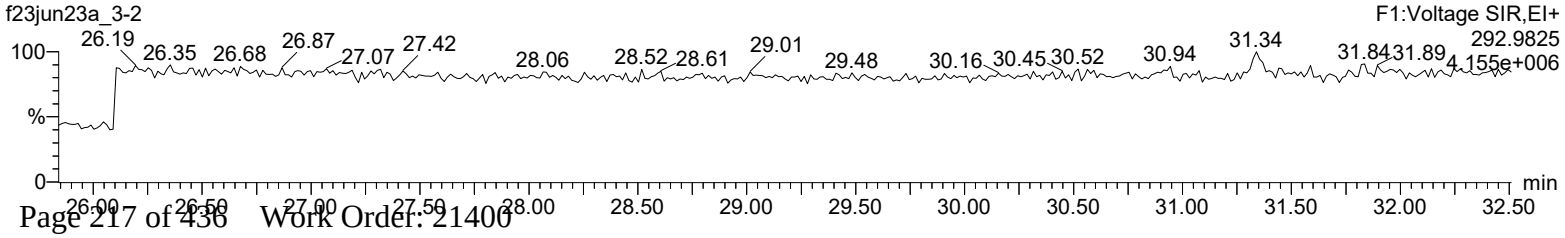
13C-2378-TCDF



HxDPE



Lock Mass F1



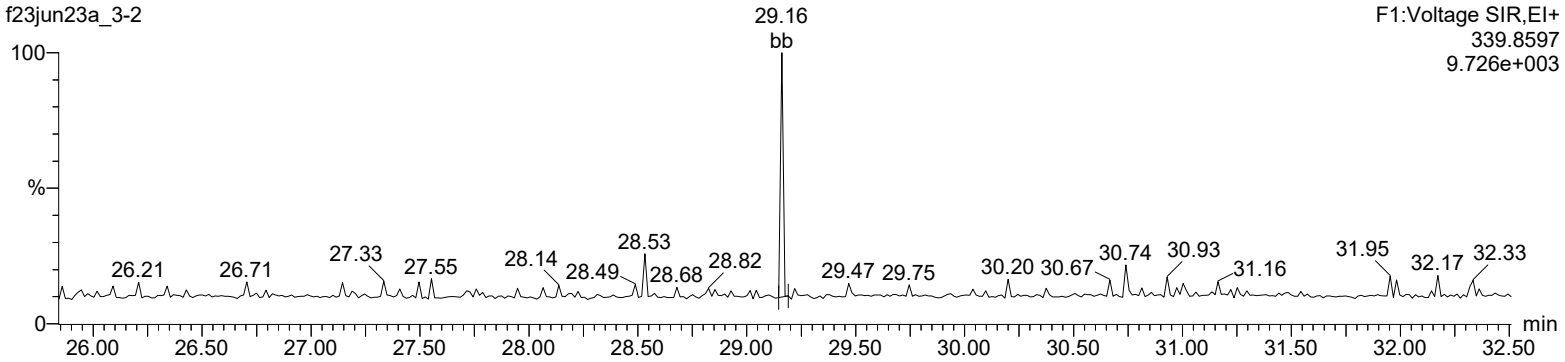
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

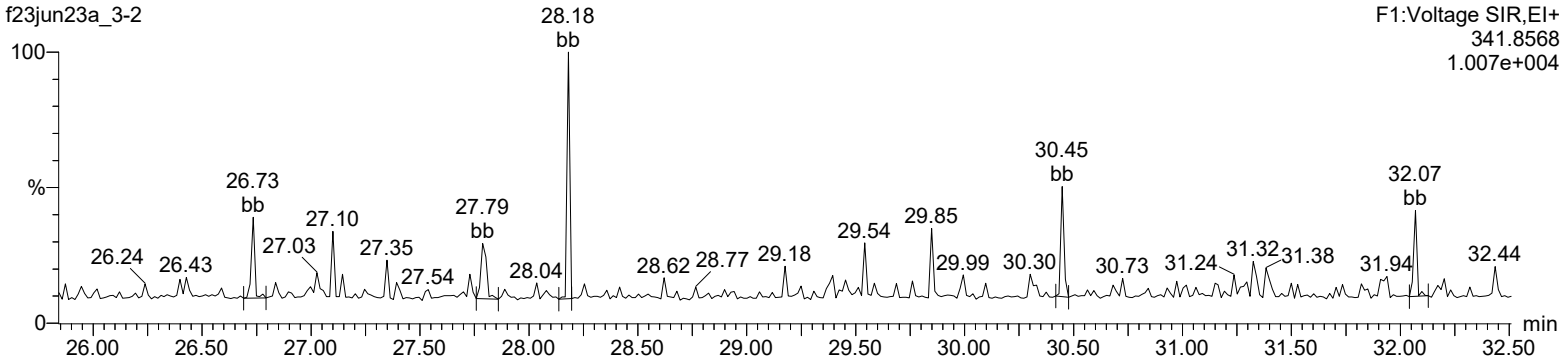
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

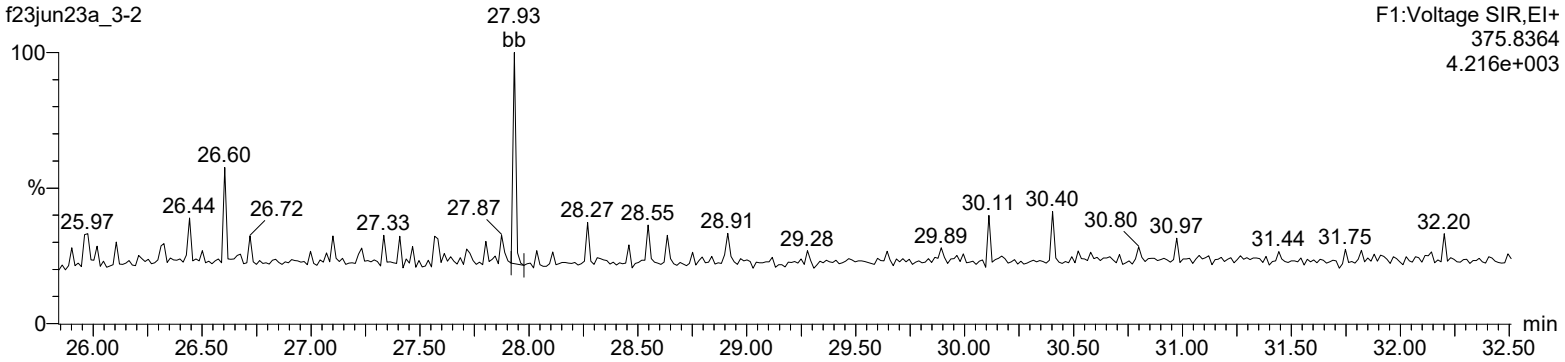
Total-pentafurans (F1)



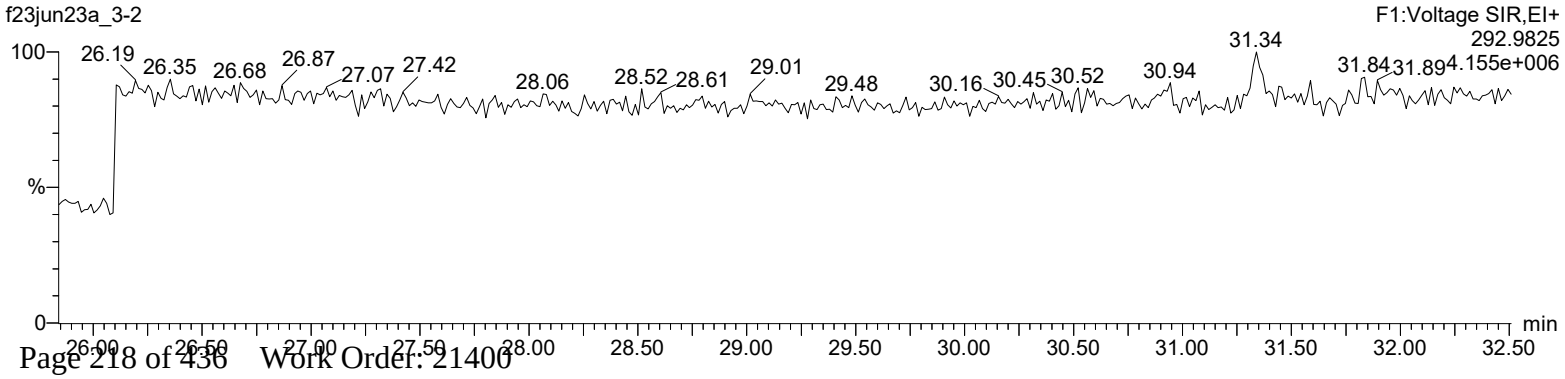
Total-pentafurans (F1)



HxDPE



Lock Mass F1



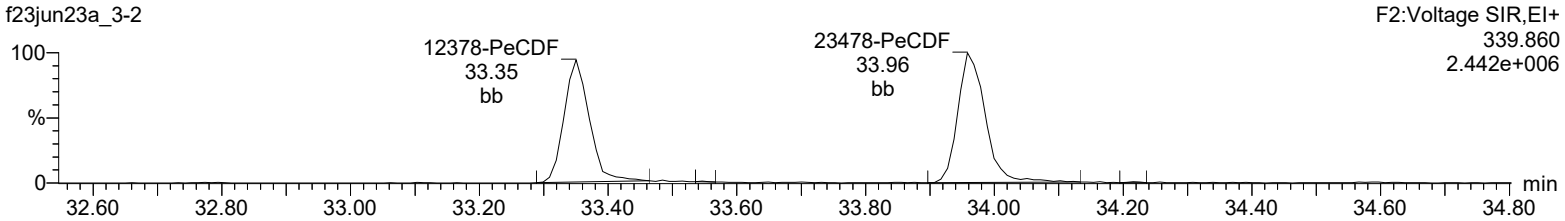
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

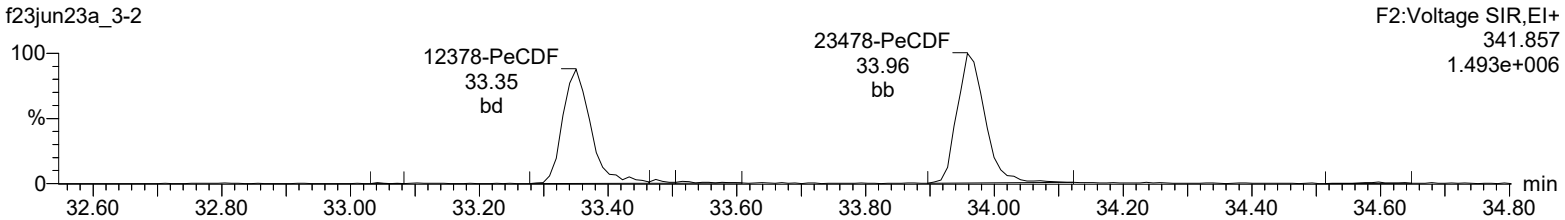
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

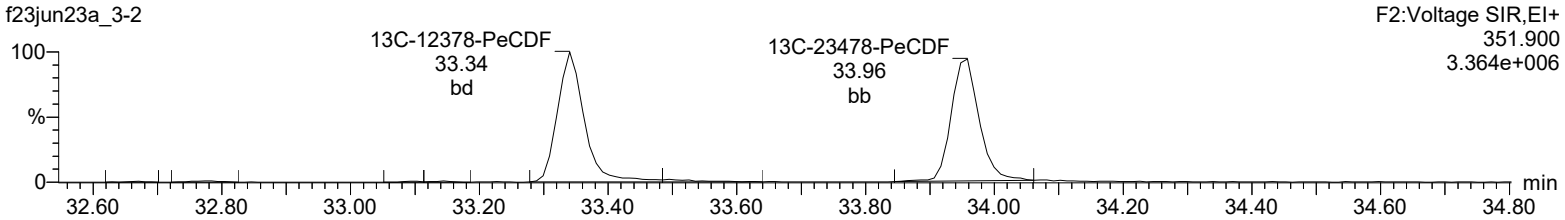
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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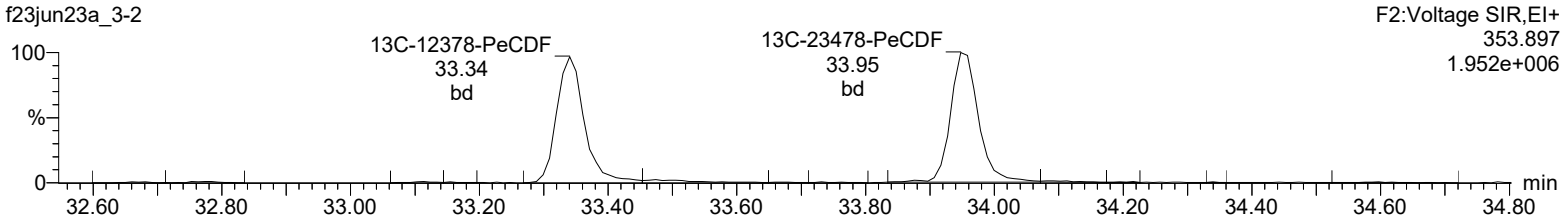
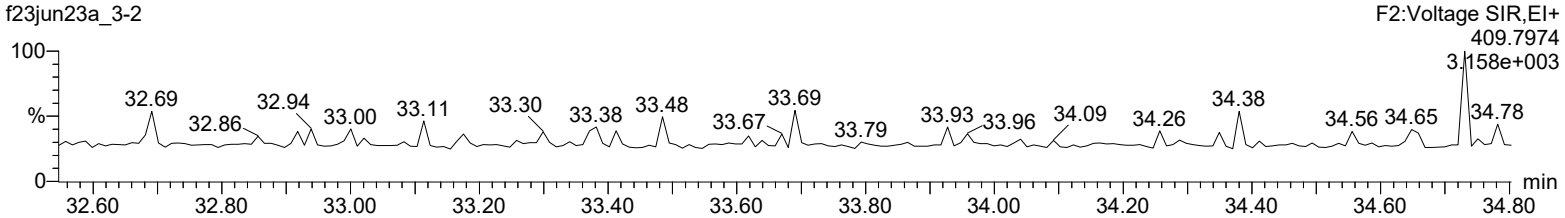
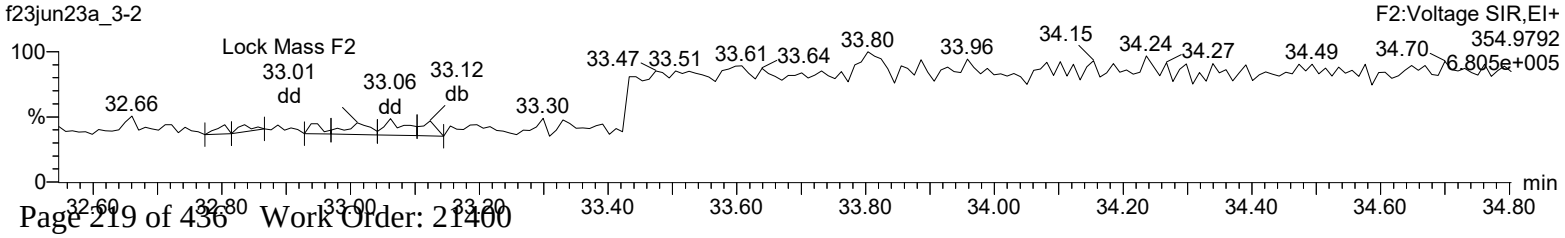


HpDPE



Lock Mass F2



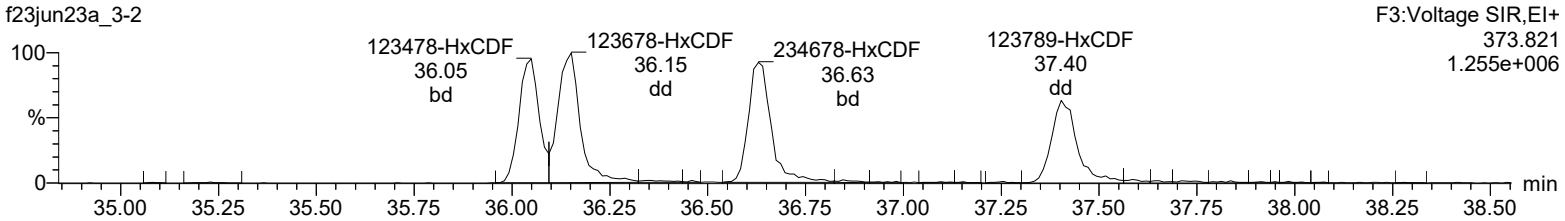
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

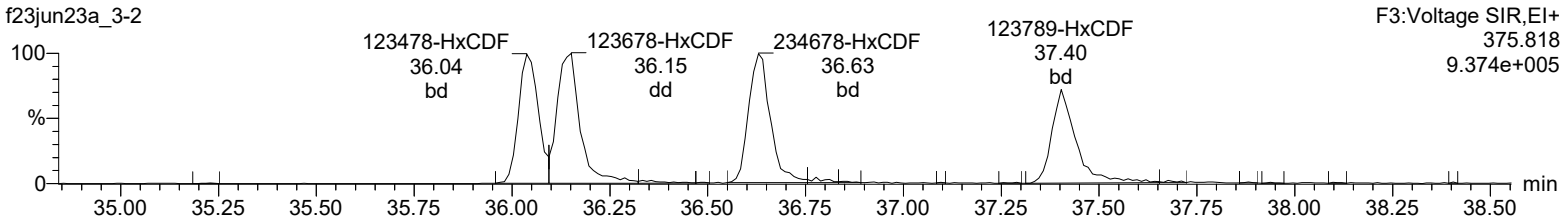
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

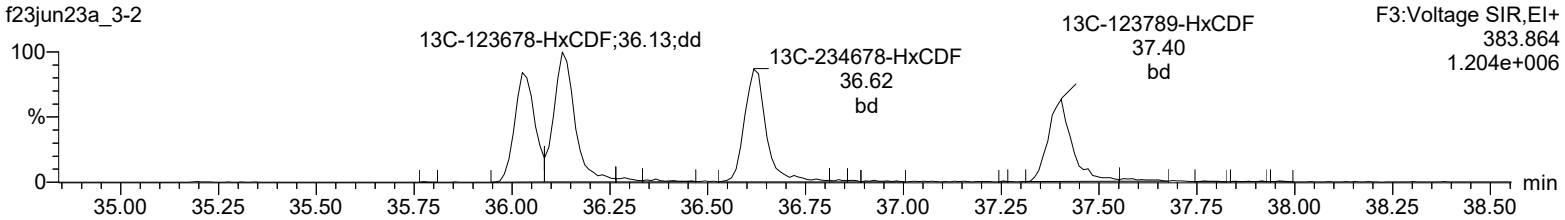
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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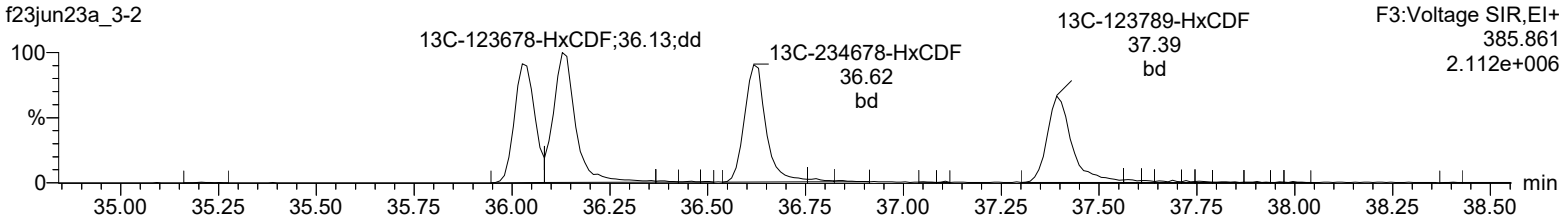
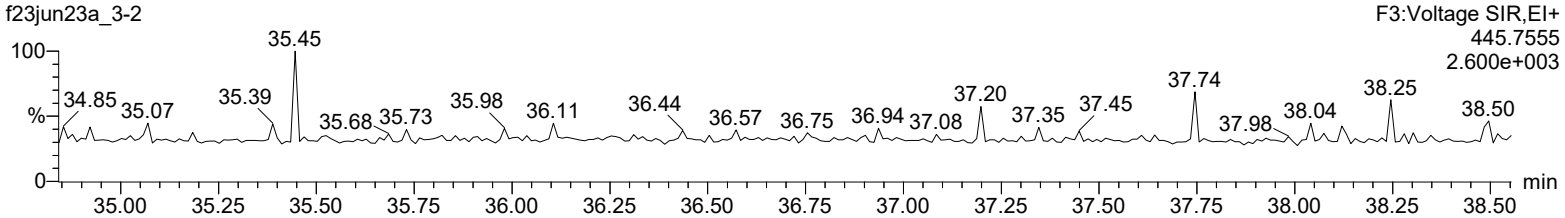
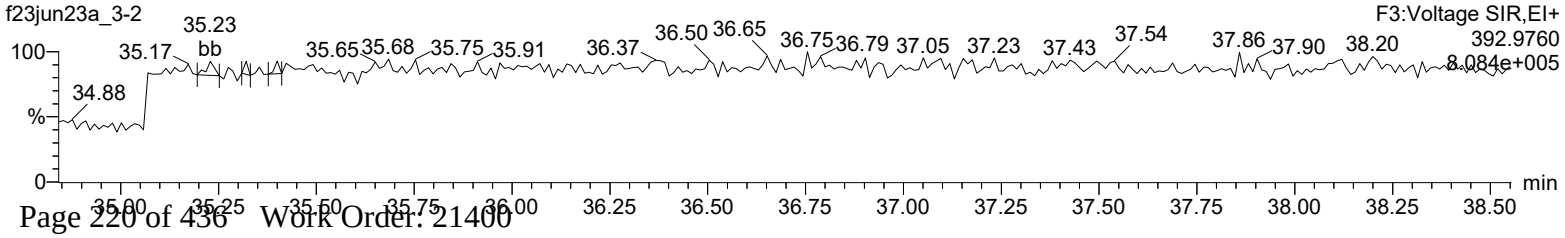


OcDPE



Lock Mass F3



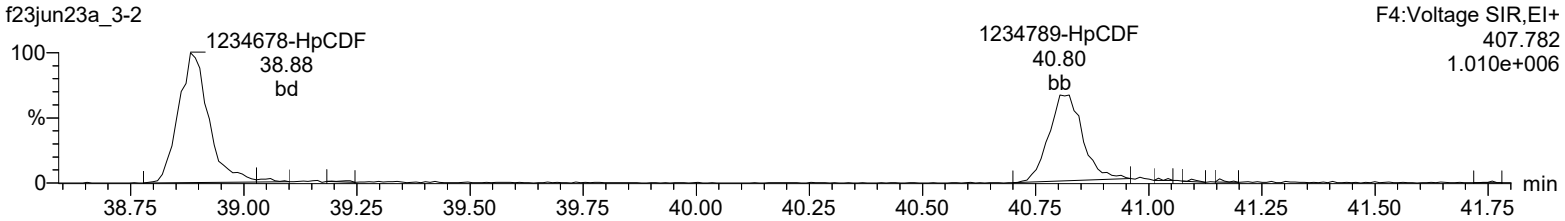
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

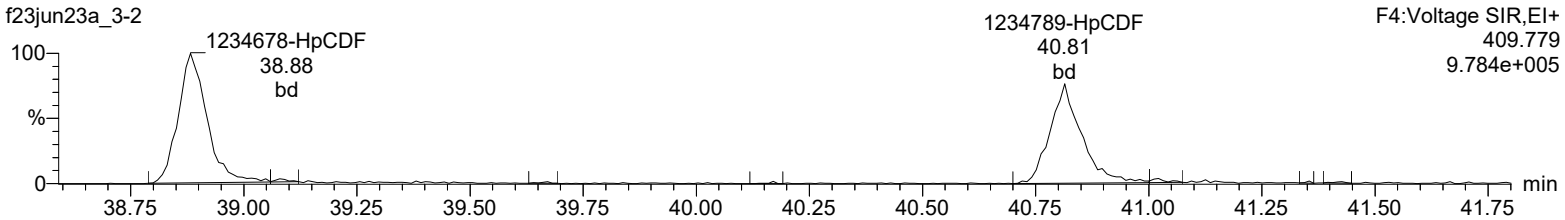
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

Total-heptafurans



Total-heptafurans



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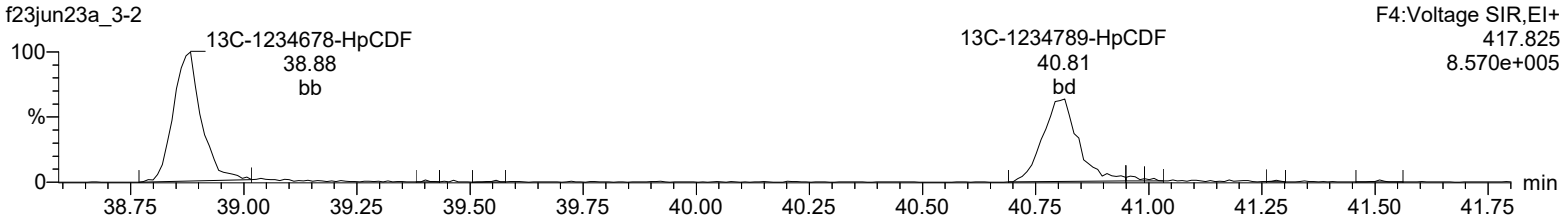

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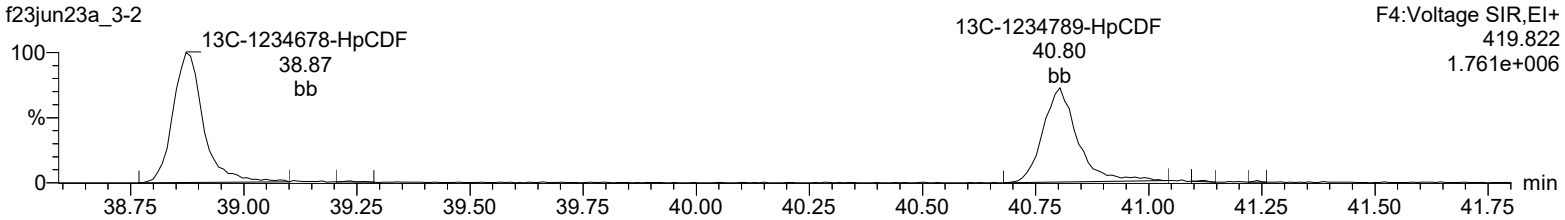

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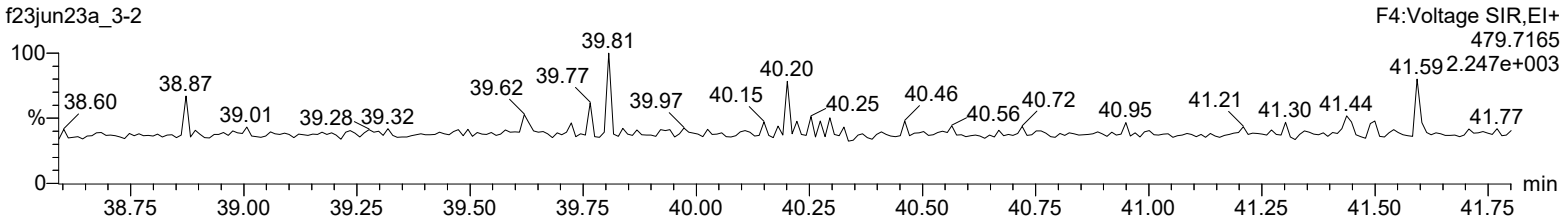
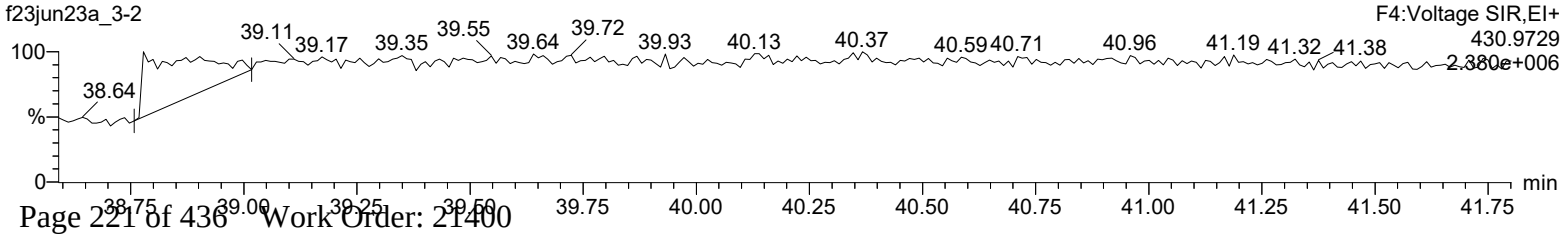


Lock Mass F4



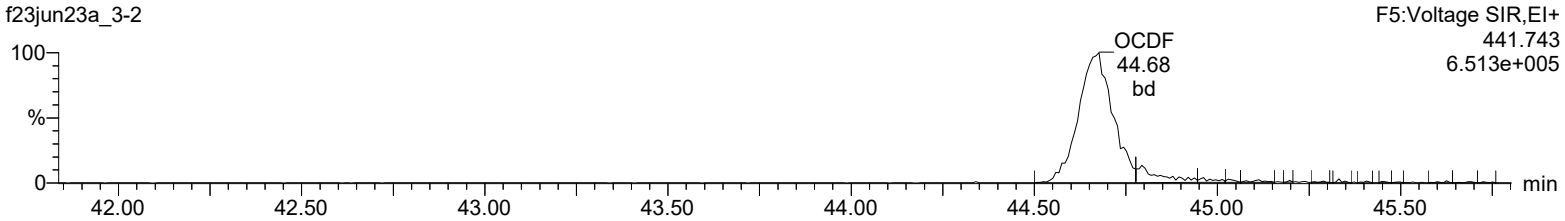
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

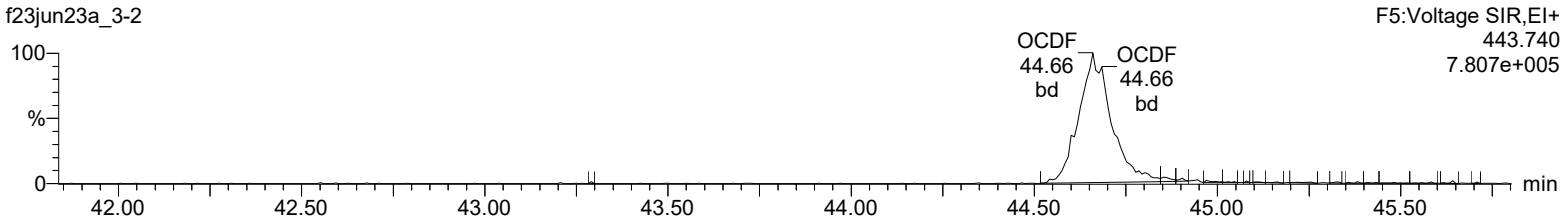
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

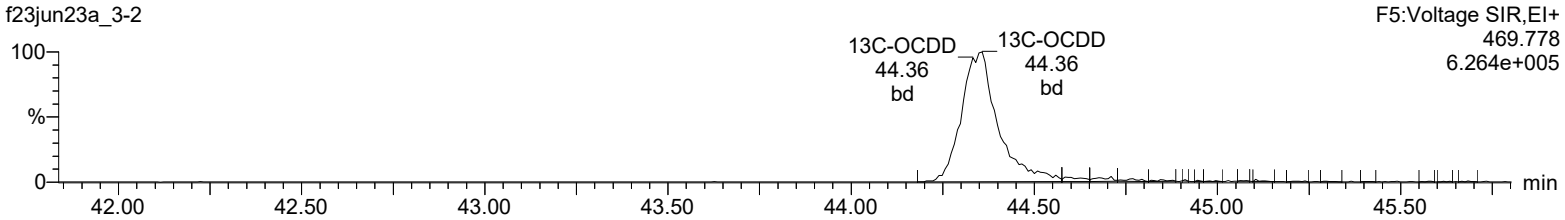
OCDF



OCDF



13C-OCDD



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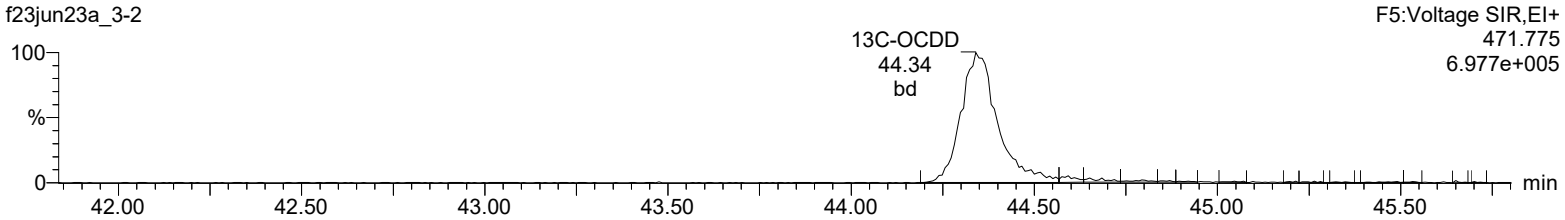

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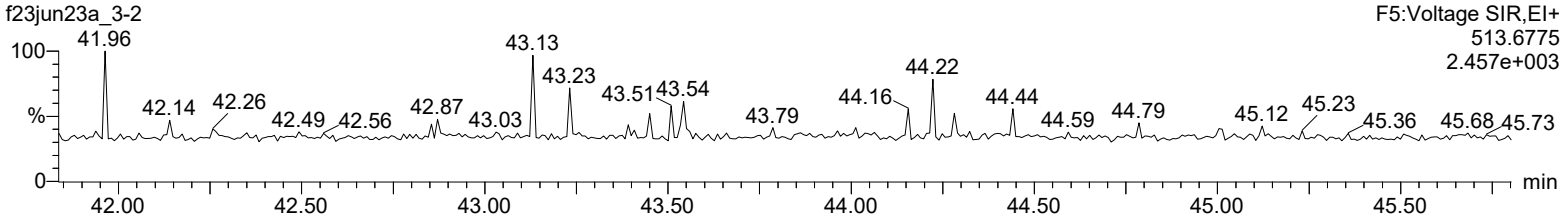
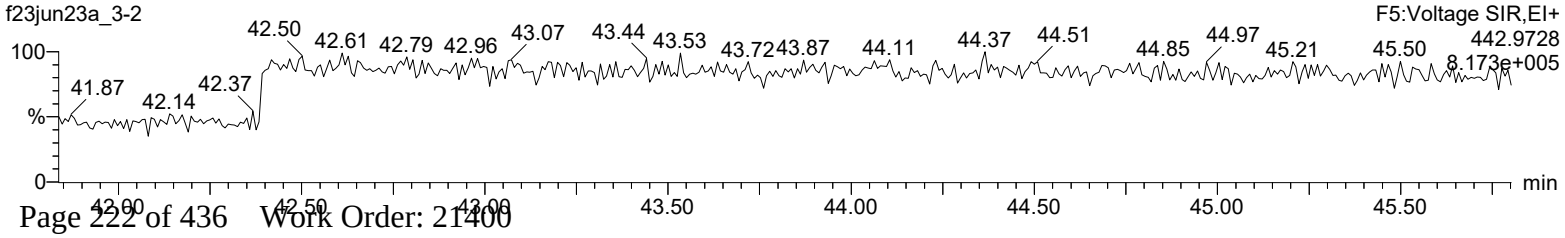


Lock Mass F5



Initial Calibration Data

RUN LOG

06/06/2023 06/06/2023

Instrument: HRP722_2

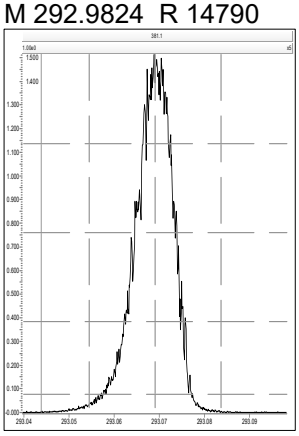
Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f01jun23d-1	01-JUN-2023 19:02:31	Skye McKinnon	CS3WT UD230328-04.1 CPSZS		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-2	01-JUN-2023 19:50:39	Skye McKinnon	SB DIBLKCJ		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-3	01-JUN-2023 20:39:34	Skye McKinnon	CS0.5 UD230407-01.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-4	01-JUN-2023 21:28:29	Skye McKinnon	CS1 UD220929-05 CS153		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-5	01-JUN-2023 22:17:23	Skye McKinnon	CS2 UD220929-06 CS254		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-6	01-JUN-2023 23:06:18	Skye McKinnon	CS3 UD220929-07 CS3AF		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-7	01-JUN-2023 23:55:11	Skye McKinnon	CS4 UD220929-08 CS453		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-8	02-JUN-2023 00:44:05	Skye McKinnon	CS5 UD220929-09 CS553		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-9	02-JUN-2023 01:33:00	Skye McKinnon	SB DIBLKCK		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-10	02-JUN-2023 02:21:55	Skye McKinnon	CS3WT UD230328-04.1 CPSZT		1 uL	dioxin_db5ms-hrp722_2	10K_DX

File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

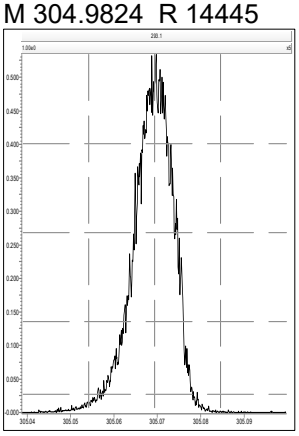
Printed: Thursday, June 01, 2023 18:42:07 Eastern Daylight Time

06/02/2023 06/02/2023

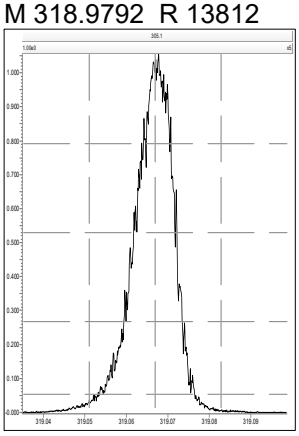
M 292.9824 R 14790



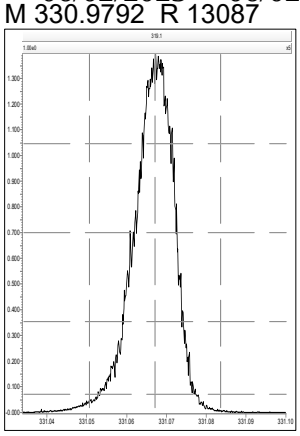
M 304.9824 R 14445



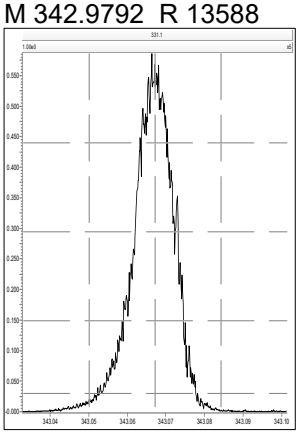
M 318.9792 R 13812



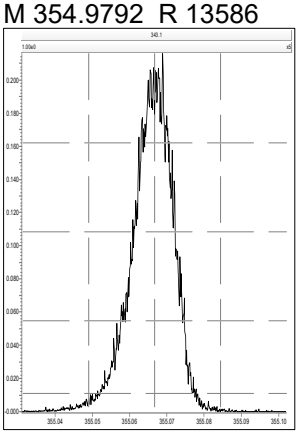
M 330.9792 R 13087



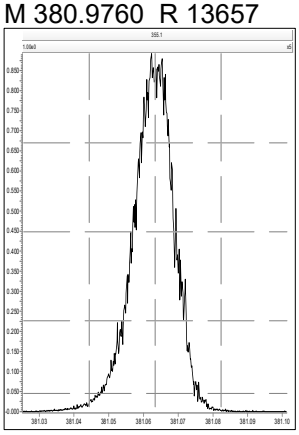
M 342.9792 R 13588



M 354.9792 R 13586



M 380.9760 R 13657

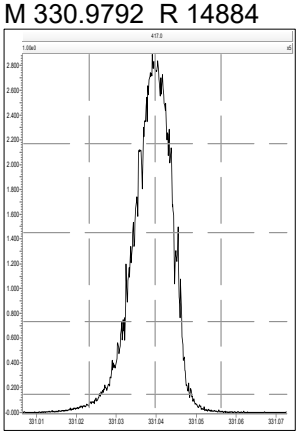


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

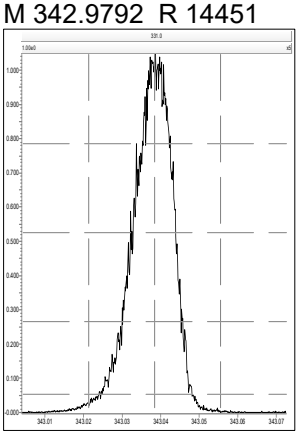
Printed: Thursday, June 01, 2023 18:43:07 Eastern Daylight Time

06/02/2023 06/02/2023

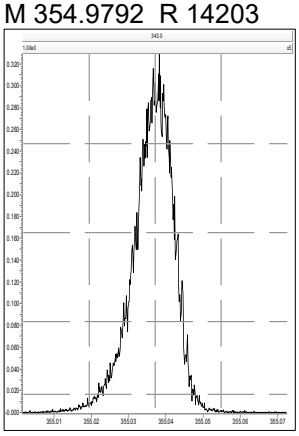
M 330.9792 R 14884



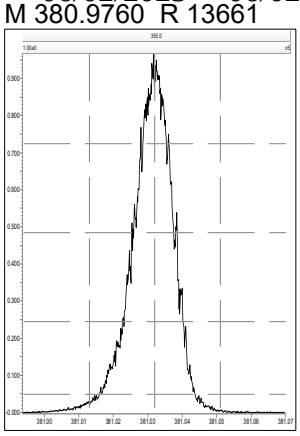
M 342.9792 R 14451



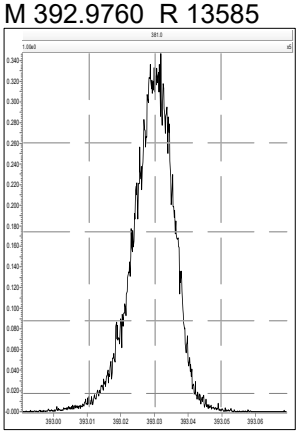
M 354.9792 R 14203



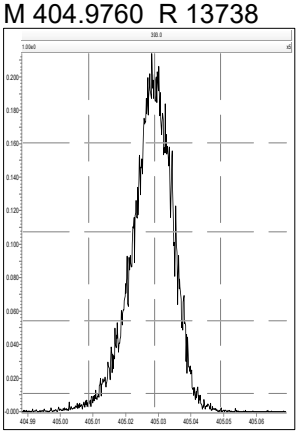
M 380.9760 R 13661



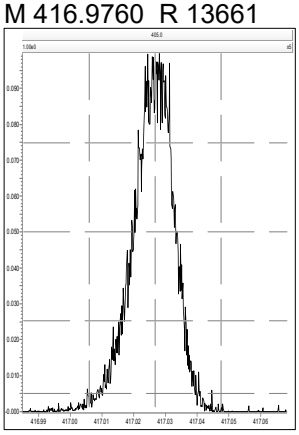
M 392.9760 R 13585



M 404.9760 R 13738



M 416.9760 R 13661

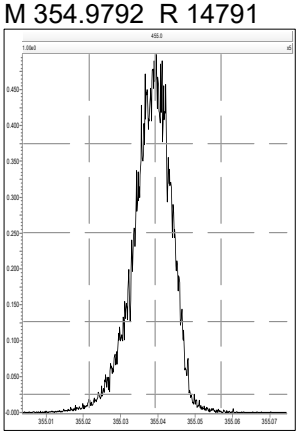


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

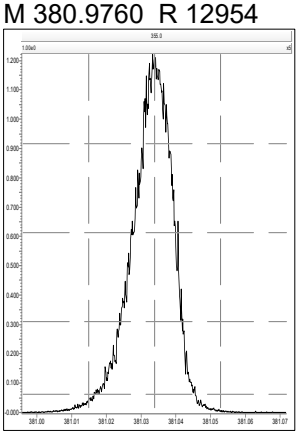
Printed: Thursday, June 01, 2023 18:43:59 Eastern Daylight Time

06/02/2023 06/02/2023

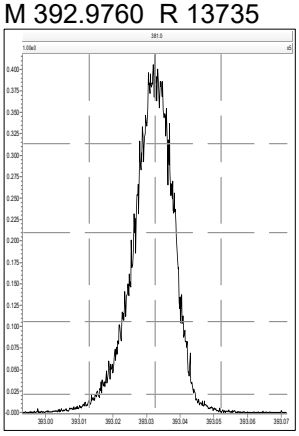
M 354.9792 R 14791



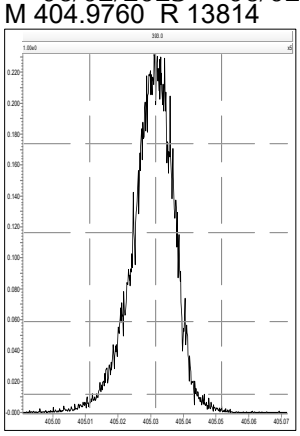
M 380.9760 R 12954



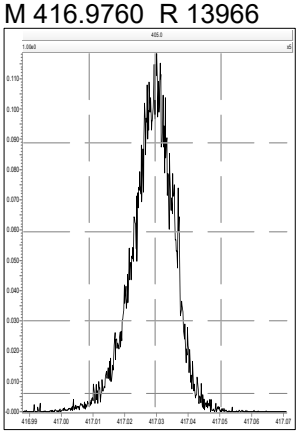
M 392.9760 R 13735



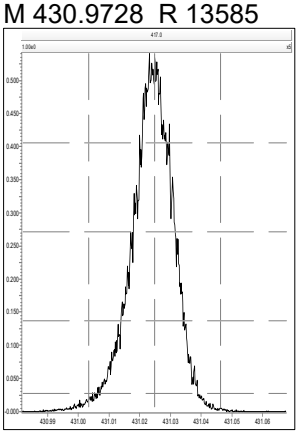
M 404.9760 R 13814



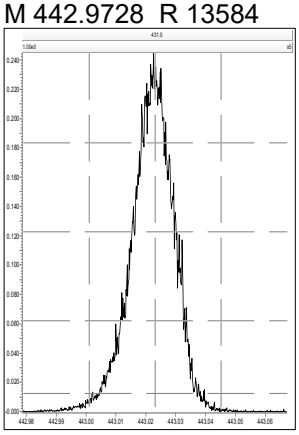
M 416.9760 R 13966



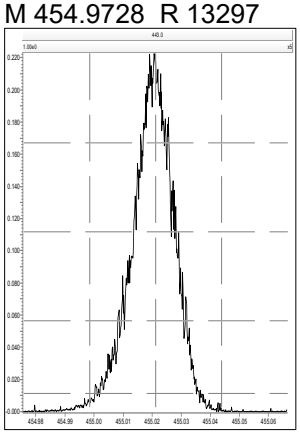
M 430.9728 R 13585



M 442.9728 R 13584



M 454.9728 R 13297



File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, June 01, 2023 18:44:20 Eastern Daylight Time

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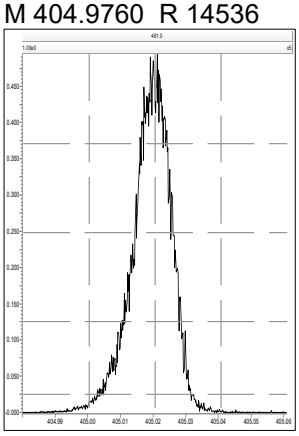
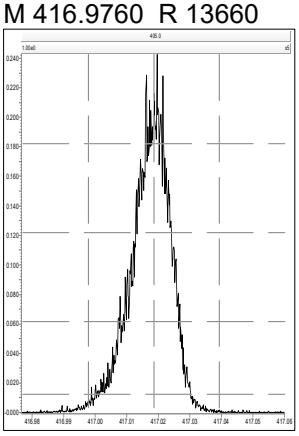
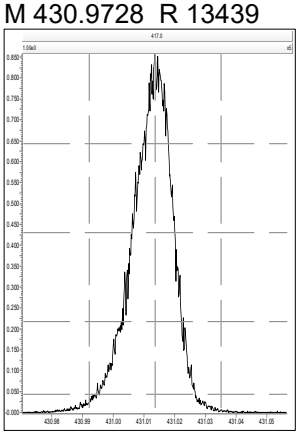
M 404.9760 R 14536



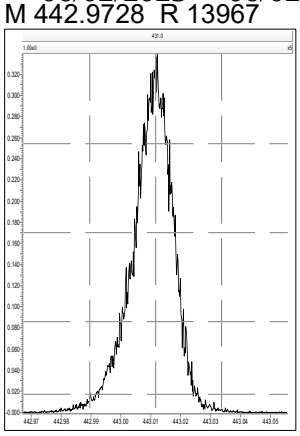
M 416.9760 R 13660



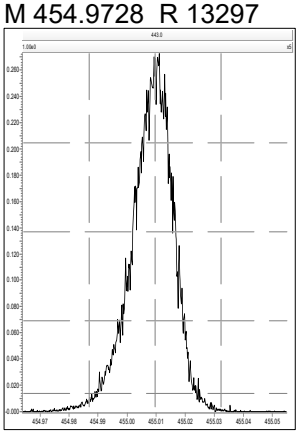
M 430.9728 R 13439



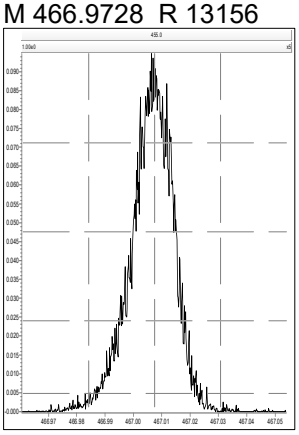
M 442.9728 R 13967



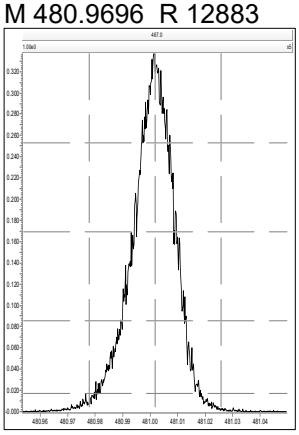
M 454.9728 R 13297



M 466.9728 R 13156



M 480.9696 R 12883



File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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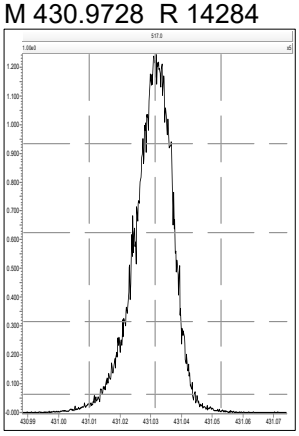
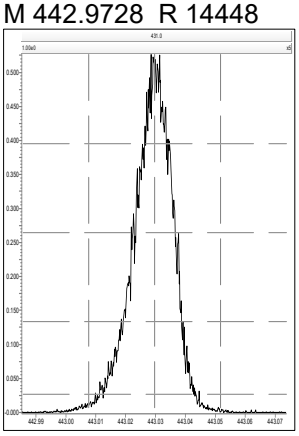
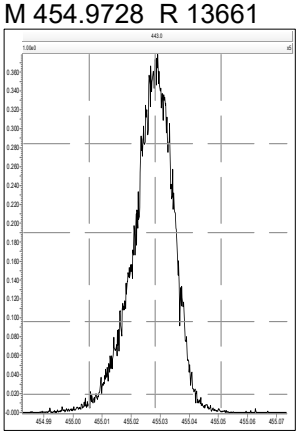
M 430.9728 R 14284



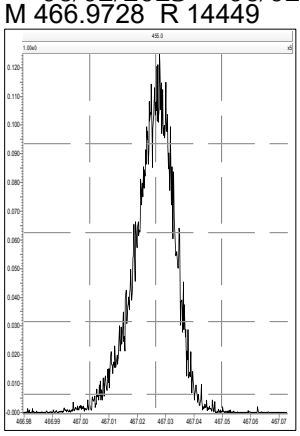
M 442.9728 R 14448



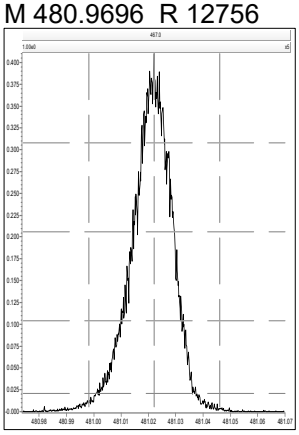
M 454.9728 R 13661



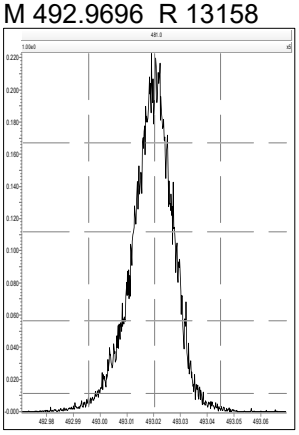
M 466.9728 R 14449



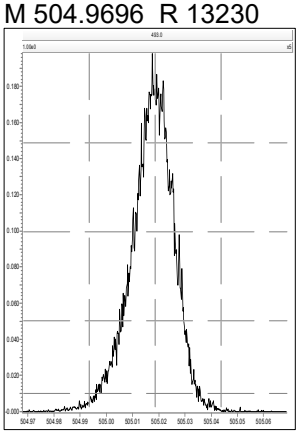
M 480.9696 R 12756



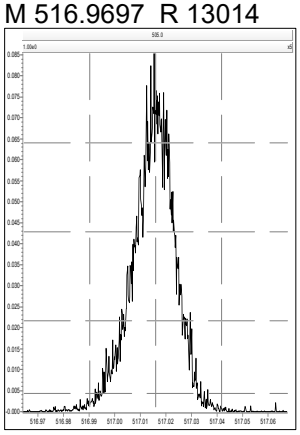
M 492.9696 R 13158



M 504.9696 R 13230



M 516.9697 R 13014



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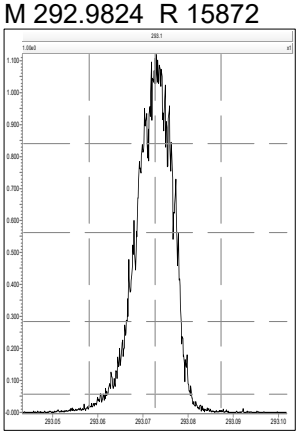
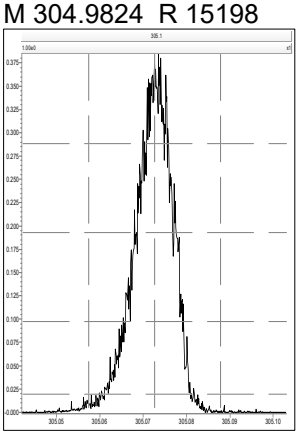
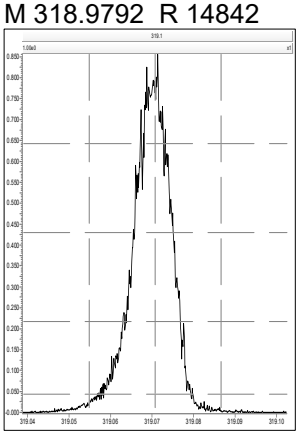
M 292.9824 R 15872



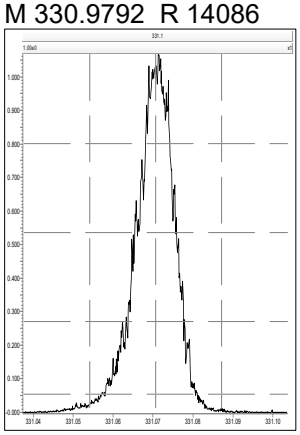
M 304.9824 R 15198



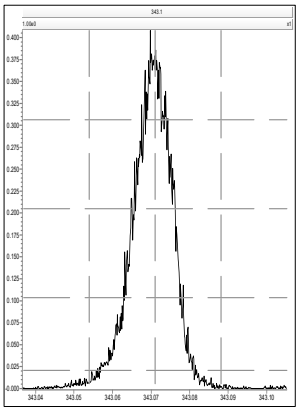
M 318.9792 R 14842



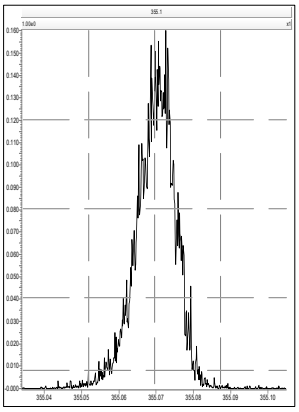
M 330.9792 R 14086



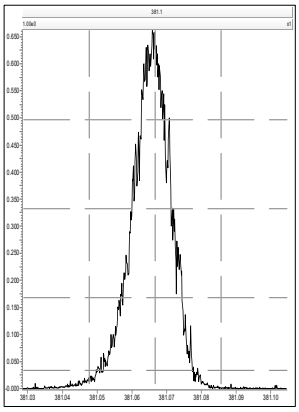
M 342.9792 R 14335



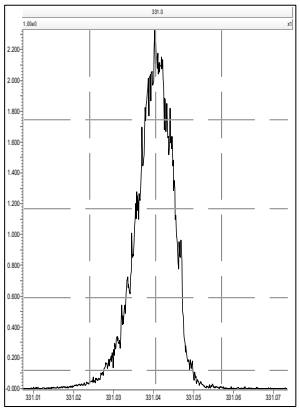
M 354.9792 R 15145



M 380.9760 R 14748



M 330.9792 R 14974



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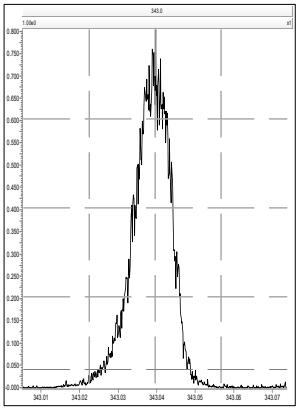

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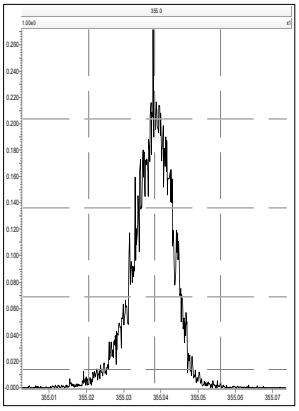
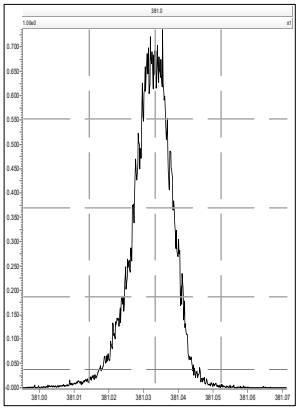
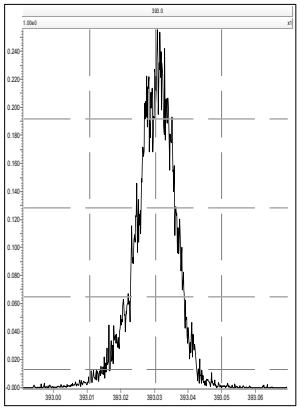


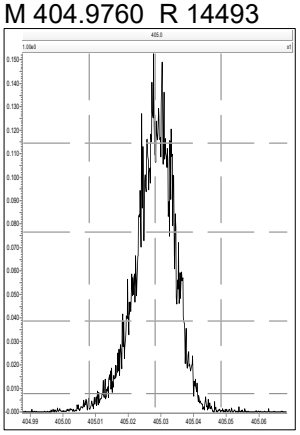
M 380.9760 R 13700



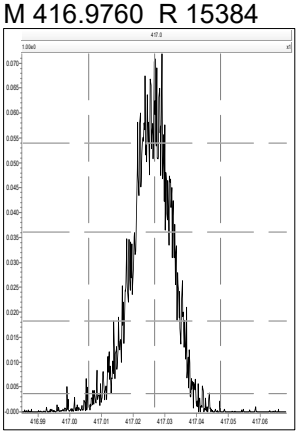
M 392.9760 R 14493



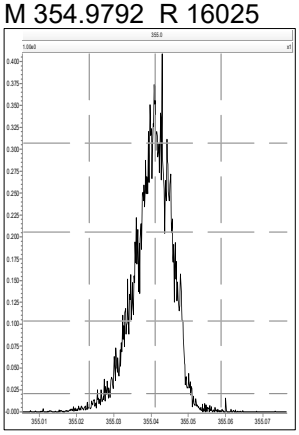
M 404.9760 R 14493



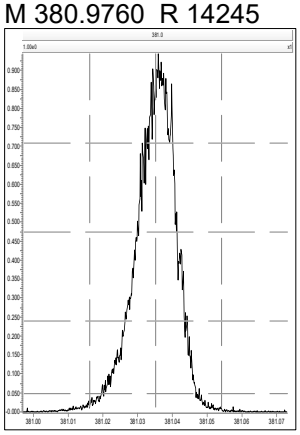
M 416.9760 R 15384



M 354.9792 R 16025



M 380.9760 R 14245



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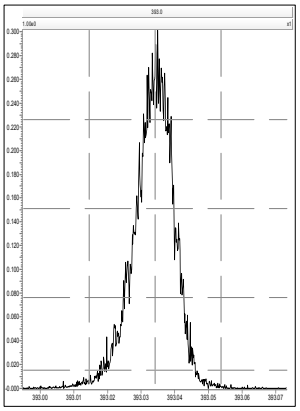
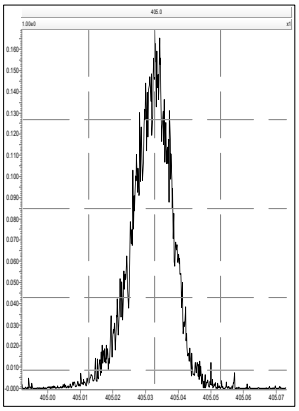
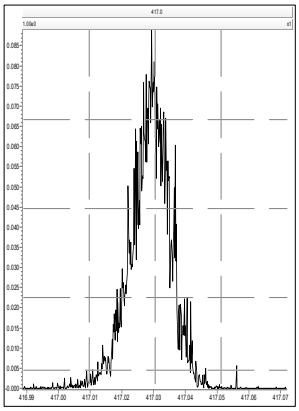
M 392.9760 R 13970



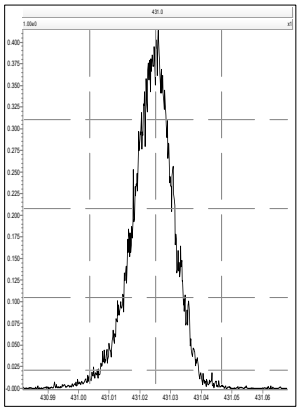
M 404.9760 R 14705



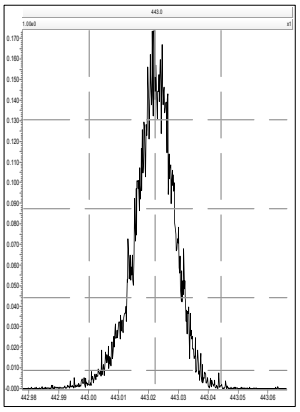
M 416.9760 R 16096



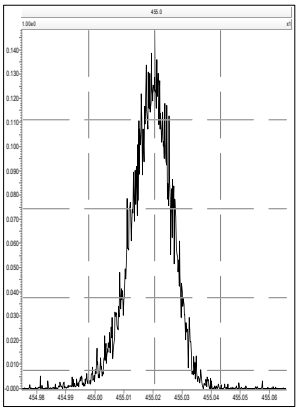
M 430.9728 R 13298



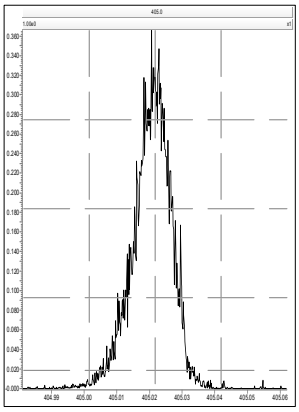
M 442.9728 R 14084



M 454.9728 R 14124



M 404.9760 R 15480



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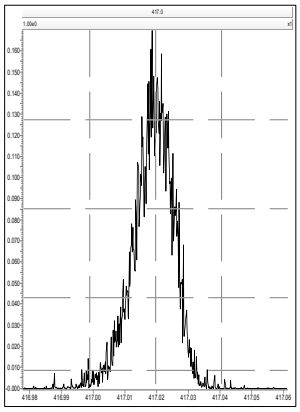
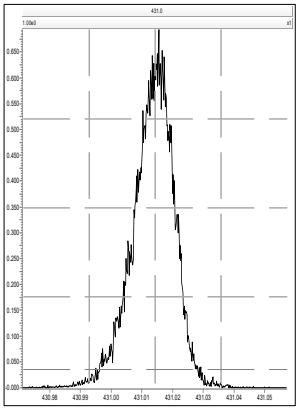
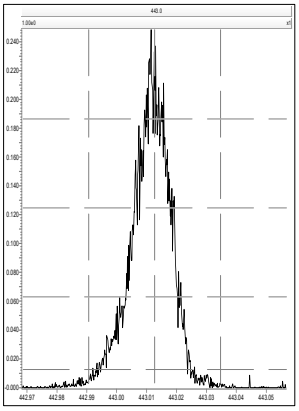


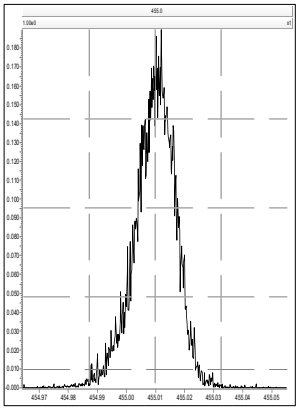
M 430.9728 R 13297



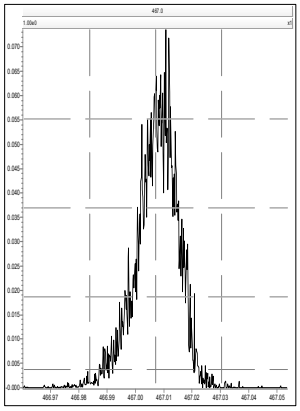
M 442.9728 R 14384



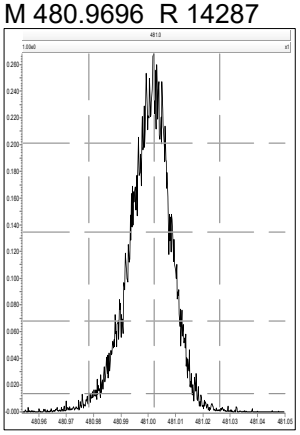
M 454.9728 R 14800



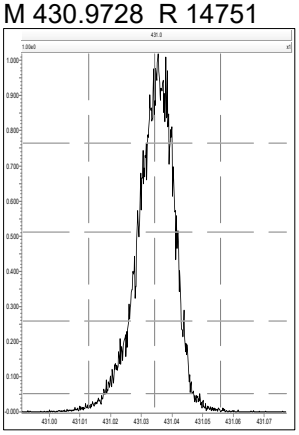
M 466.9728 R 14454



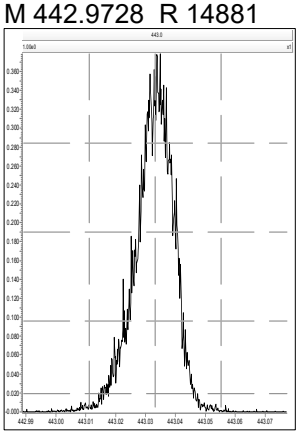
M 480.9696 R 14287



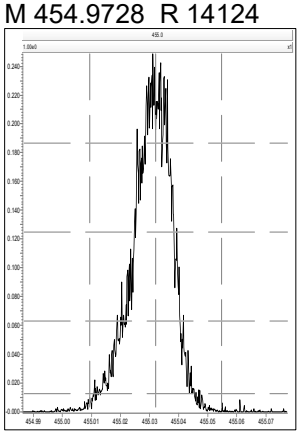
M 430.9728 R 14751



M 442.9728 R 14881



M 454.9728 R 14124



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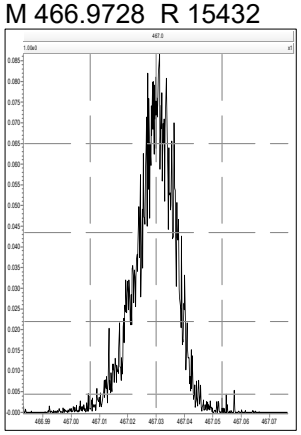
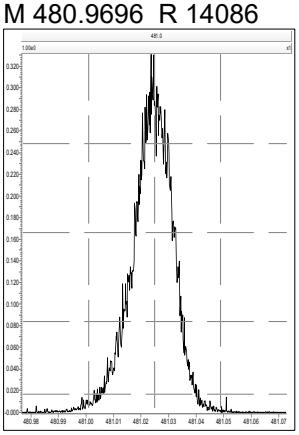
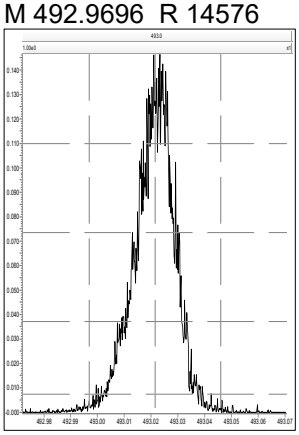


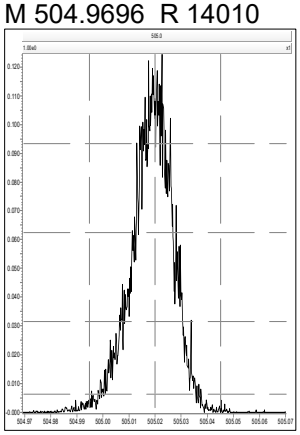
M 480.9696 R 14086



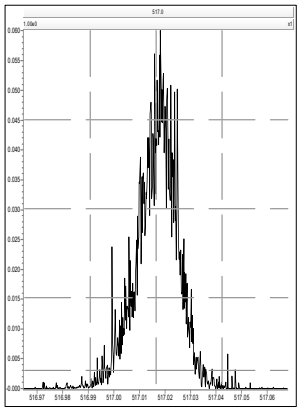
M 492.9696 R 14576



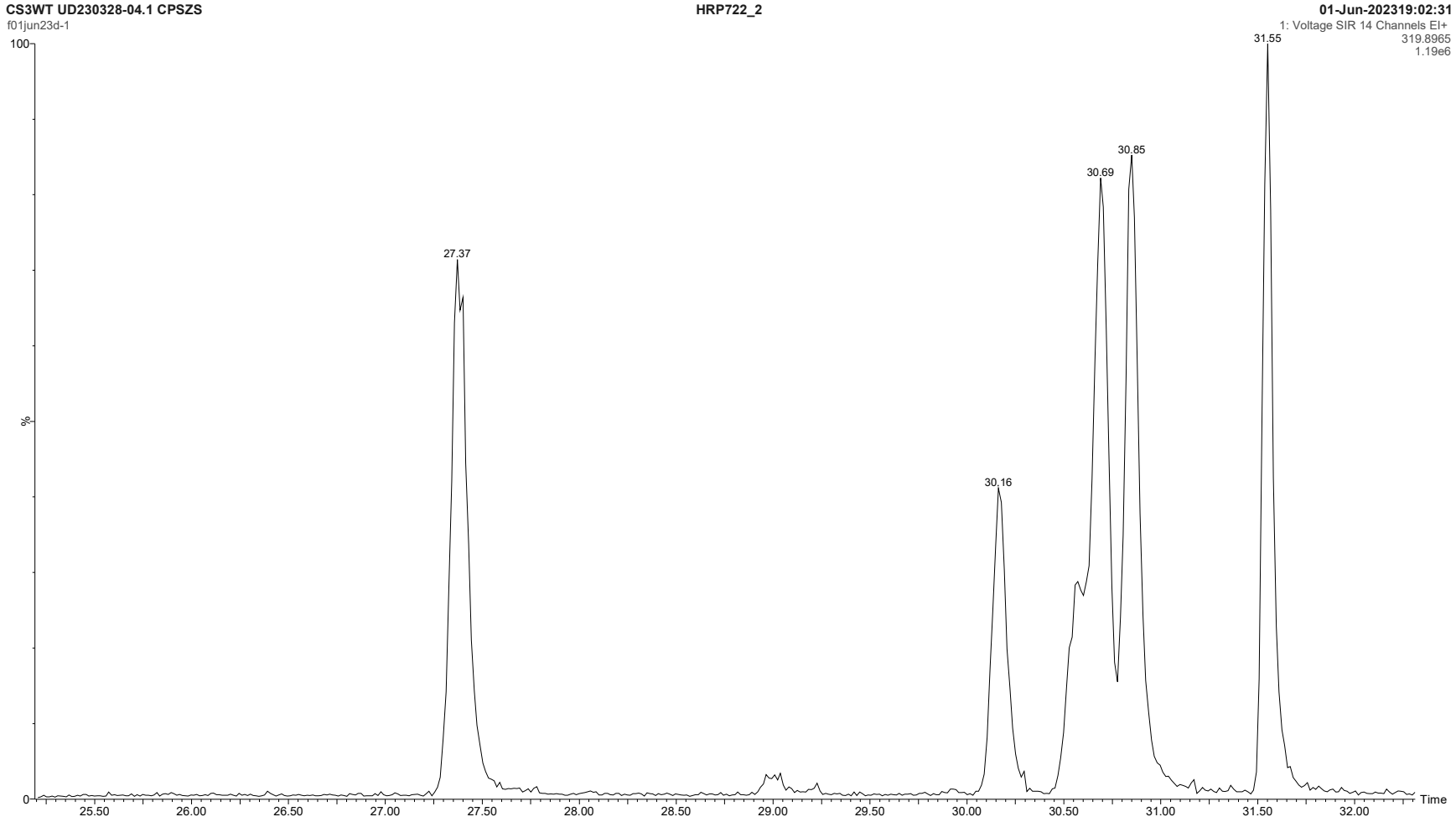
M 504.9696 R 14010



M 516.9697 R 14880

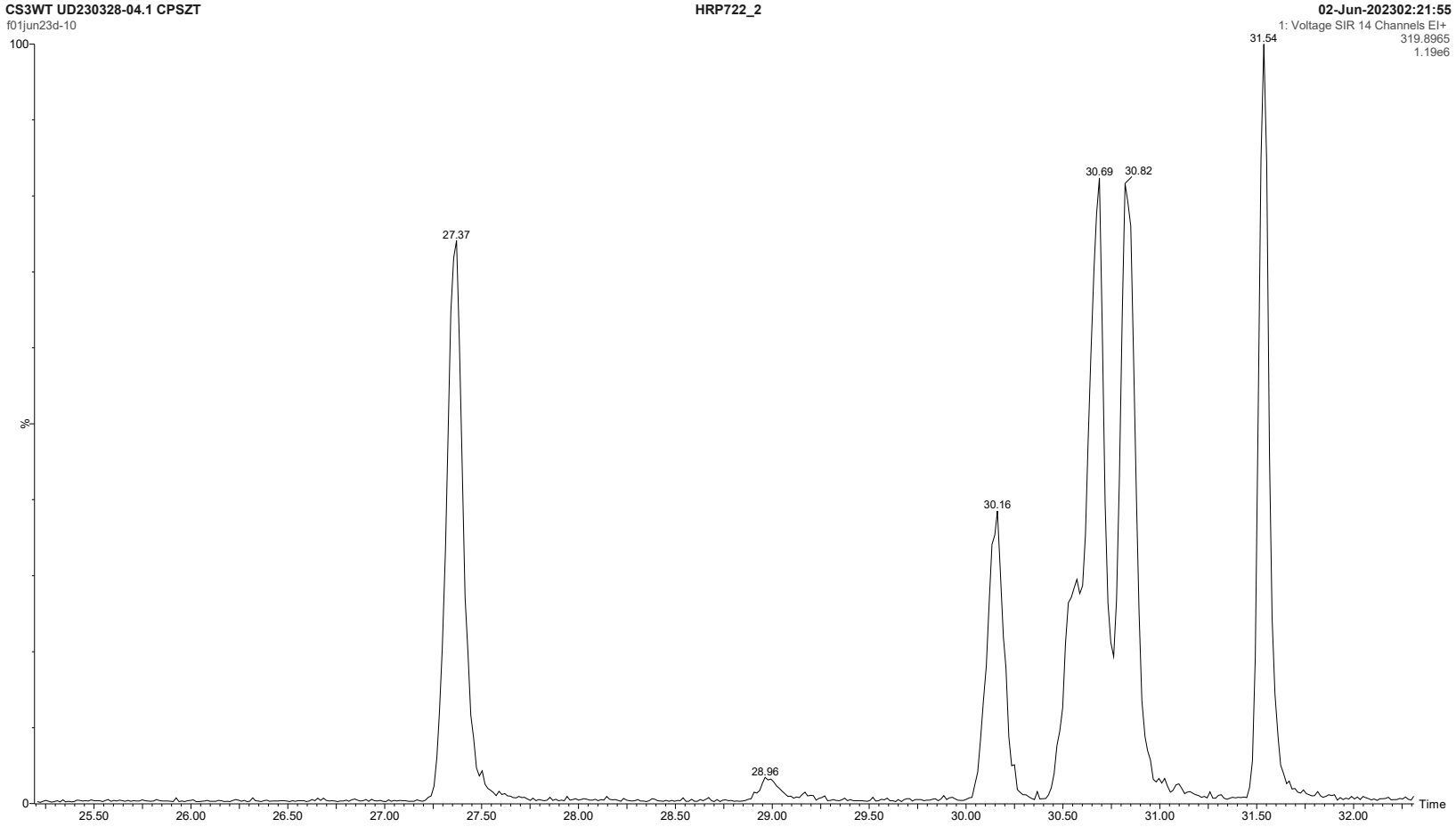


COLUMN CHECK (2378-TCDD 17%)



06/02/2023 06/02/2023

COLUMN CHECK (2378-TCDD 22%)



06/02/2023 06/02/2023

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

06/06/2023

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Compound name: 2378-TCDD
Response Factor: 1.09967
RRF SD: 0.0648097, Relative SD: 5.89356
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	0.250	30.81	0.26	1.158	1.100	bb	MM	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	0.500	30.83	0.45	0.998	1.100	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	2.000	30.82	1.91	1.048	1.100	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	10.000	30.82	10.06	1.106	1.100	bd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	40.000	30.83	40.89	1.124	1.100	bd	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	30.82	211.45	1.163	1.100	bb	bb	HRP722_2

Compound name: 12378-PeCDD
Response Factor: 1.16447
RRF SD: 0.0502668, Relative SD: 4.31671
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	33.88	1.23	1.144	1.164	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	33.86	2.32	1.082	1.164	bb	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	33.86	9.85	1.147	1.164	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	33.86	52.08	1.213	1.164	bb	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	33.88	206.88	1.204	1.164	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	33.86	1028.15	1.197	1.164	bb	bb	HRP722_2

Compound name: 123478-HxCDD
Response Factor: 1.07257
RRF SD: 0.0458007, Relative SD: 4.27018
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.39	1.15	0.989	1.073	dd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.38	2.50	1.070	1.073	dd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.38	9.90	1.061	1.073	dd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.39	50.87	1.091	1.073	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.39	207.13	1.111	1.073	bd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.39	1037.19	1.112	1.073	bd	bd	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 123678-HxCDD
Response Factor: 1.06416
RRF SD: 0.0610233, Relative SD: 5.73439
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.46	1.19	1.017	1.064	dd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.46	2.28	0.971	1.064	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.47	9.91	1.054	1.064	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.47	51.99	1.107	1.064	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.48	209.87	1.117	1.064	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.47	1052.03	1.120	1.064	dd	dd	HRP722_2

Compound name: 123789-HxCDD
Response Factor: 1.06631
RRF SD: 0.0734334, Relative SD: 6.88669
Response type: Internal Std (Ref Multiple), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.69	1.12	0.959	1.066	dd	db	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.68	2.33	0.993	1.066	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.69	10.06	1.073	1.066	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.69	52.63	1.122	1.066	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.71	210.57	1.123	1.066	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.69	1057.72	1.128	1.066	dd	dd	HRP722_2

Compound name: 1234678-HpCDD
Response Factor: 1.22797
RRF SD: 0.0884953, Relative SD: 7.20665
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	39.62	1.11	1.092	1.228	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	39.62	2.36	1.159	1.228	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	39.63	9.93	1.219	1.228	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	39.63	52.99	1.302	1.228	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	39.63	214.27	1.316	1.228	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	39.63	1042.97	1.281	1.228	bb	bb	HRP722_2

Compound name: OCDD
Response Factor: 1.10705
RRF SD: 0.0666494, Relative SD: 6.02046
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	2.500	43.65	2.37	1.050	1.107	MM	MM	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	5.000	43.65	4.72	1.044	1.107	MM	MM	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: OCDD

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	20.000	43.64	18.90	1.046	1.107	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	43.65	104.24	1.154	1.107	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	400.000	43.65	426.92	1.182	1.107	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	2000.000	43.66	2107.45	1.167	1.107	bd	bd	HRP722_2

Compound name: 2378-TCDF
Response Factor: 1.35236
RRF SD: 0.0653155, Relative SD: 4.82973
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	0.250	29.91	0.24	1.277	1.352	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	0.500	29.91	0.47	1.274	1.352	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	2.000	29.91	1.99	1.349	1.352	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	10.000	29.93	10.24	1.385	1.352	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	40.000	29.94	41.34	1.398	1.352	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	29.91	211.79	1.432	1.352	bb	bb	HRP722_2

Compound name: 12378-PeCDF
Response Factor: 1.27379
RRF SD: 0.0883789, Relative SD: 6.93827
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	33.07	1.19	1.214	1.274	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	33.06	2.26	1.151	1.274	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	33.07	9.86	1.256	1.274	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	33.07	50.30	1.282	1.274	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	33.08	210.61	1.341	1.274	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	33.07	1097.92	1.399	1.274	bd	bb	HRP722_2

Compound name: 23478-PeCDF
Response Factor: 1.39417
RRF SD: 0.0578353, Relative SD: 4.14838
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	33.68	1.23	1.368	1.394	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	33.68	2.37	1.322	1.394	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	33.68	9.61	1.339	1.394	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	33.68	51.60	1.439	1.394	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	33.69	207.94	1.450	1.394	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	33.68	1037.83	1.447	1.394	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 123478-HxCDF
Response Factor: 1.41809
RRF SD: 0.0582147, Relative SD: 4.10513
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	35.68	1.20	1.361	1.418	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	35.68	2.38	1.353	1.418	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	35.69	9.81	1.391	1.418	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	35.69	51.27	1.454	1.418	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	35.70	204.79	1.452	1.418	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	35.69	1055.77	1.497	1.418	bd	bd	HRP722_2

Compound name: 123678-HxCDF
Response Factor: 1.37798
RRF SD: 0.0572412, Relative SD: 4.15398
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	35.78	1.22	1.341	1.378	db	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	35.78	2.39	1.315	1.378	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	35.78	9.60	1.323	1.378	db	db	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	35.78	51.91	1.430	1.378	db	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	35.79	206.90	1.426	1.378	db	db	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	35.78	1039.78	1.433	1.378	db	db	HRP722_2

Compound name: 234678-HxCDF
Response Factor: 1.42194
RRF SD: 0.0847991, Relative SD: 5.96364
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.25	1.17	1.331	1.422	bd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.25	2.41	1.368	1.422	bb	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.25	9.46	1.345	1.422	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.26	51.23	1.457	1.422	bb	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.26	213.78	1.520	1.422	bd	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.26	1062.74	1.511	1.422	bd	bd	HRP722_2

Compound name: 123789-HxCDF
Response Factor: 1.30221
RRF SD: 0.070686, Relative SD: 5.42814
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	37.00	1.15	1.202	1.302	bd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	37.00	2.44	1.273	1.302	bb	MM	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 123789-HxCDF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	10.000	37.00	9.67	1.259	1.302	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	37.00	50.95	1.327	1.302	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	37.00	208.62	1.358	1.302	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	37.00	1070.51	1.394	1.302	bb	bb	HRP722_2

Compound name: 1234678-HpCDF
Response Factor: 1.38391
RRF SD: 0.0630964, Relative SD: 4.55929
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	38.41	1.17	1.295	1.384	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	38.41	2.48	1.375	1.384	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	38.42	9.63	1.332	1.384	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	38.41	51.44	1.424	1.384	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	38.42	203.72	1.410	1.384	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	38.42	1060.45	1.468	1.384	bb	bb	HRP722_2

Compound name: 1234789-HpCDF
Response Factor: 1.36358
RRF SD: 0.116204, Relative SD: 8.52199
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	40.25	1.10	1.203	1.364	bb	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	40.26	2.30	1.255	1.364	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	40.27	9.86	1.345	1.364	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	40.26	52.32	1.427	1.364	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	40.27	217.55	1.483	1.364	bd	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	40.26	1077.43	1.469	1.364	bb	bb	HRP722_2

Compound name: OCDF
Response Factor: 1.7522
RRF SD: 0.29471, Relative SD: 16.8194
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	2.500	43.96	2.01	1.411	1.752	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	5.000	43.93	4.30	1.508	1.752	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	20.000	43.94	17.84	1.563	1.752	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	43.93	107.80	1.889	1.752	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	400.000	43.94	474.32	2.078	1.752	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	2000.000	43.95	2356.78	2.065	1.752	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 13C-2378-TCDD
Response Factor: 1.13864
RRF SD: 0.0319578, Relative SD: 2.80667
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	30.81	97.47	1.110	1.139	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	30.81	97.99	1.116	1.139	bb	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	30.81	100.03	1.139	1.139	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	30.81	99.60	1.134	1.139	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	30.82	99.56	1.134	1.139	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	30.81	105.35	1.200	1.139	bb	bb	HRP722_2

Compound name: 13C-12378-PeCDD
Response Factor: 0.813147
RRF SD: 0.0496779, Relative SD: 6.10934
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	33.85	95.01	0.773	0.813	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	33.85	97.94	0.796	0.813	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	33.85	99.13	0.806	0.813	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	33.85	96.07	0.781	0.813	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	33.86	99.97	0.813	0.813	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	33.85	111.89	0.910	0.813	bb	bb	HRP722_2

Compound name: 13C-123478-HxCDD
Response Factor: 0.847482
RRF SD: 0.029141, Relative SD: 3.43854
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.38	96.00	0.814	0.847	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.36	97.47	0.826	0.847	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.36	99.44	0.843	0.847	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.38	98.75	0.837	0.847	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.38	104.28	0.884	0.847	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.38	104.06	0.882	0.847	bd	bd	HRP722_2

Compound name: 13C-123678-HxCDD
Response Factor: 1.02718
RRF SD: 0.0100553, Relative SD: 0.97892
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.46	101.81	1.046	1.027	dd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.44	99.18	1.019	1.027	dd	dd	HRP722_2

Compound name: 13C-123678-HxCDD

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.46	99.50	1.022	1.027	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.46	99.30	1.020	1.027	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.47	100.30	1.030	1.027	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.46	99.91	1.026	1.027	dd	dd	HRP722_2

Compound name: 13C-1234678-HpCDD
Response Factor: 0.800489
RRF SD: 0.0176475, Relative SD: 2.20459
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	39.61	97.28	0.779	0.800	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	39.61	99.83	0.799	0.800	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	39.61	103.34	0.827	0.800	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	39.61	98.59	0.789	0.800	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	39.62	99.20	0.794	0.800	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	39.62	101.76	0.815	0.800	bd	bb	HRP722_2

Compound name: 13C-OCDD
Response Factor: 0.652502
RRF SD: 0.0281295, Relative SD: 4.31103
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	200.000	43.64	189.67	0.619	0.653	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	200.000	43.63	194.36	0.634	0.653	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	200.000	43.63	205.25	0.670	0.653	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	200.000	43.63	196.89	0.642	0.653	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	43.64	199.84	0.652	0.653	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	43.65	214.00	0.698	0.653	bd	bd	HRP722_2

Compound name: 13C-2378-TCDF
Response Factor: 1.73398
RRF SD: 0.0262921, Relative SD: 1.51628
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	29.90	98.57	1.709	1.734	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	29.89	98.62	1.710	1.734	bb	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	29.90	99.54	1.726	1.734	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	29.90	100.64	1.745	1.734	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	29.91	100.00	1.734	1.734	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	29.90	102.63	1.780	1.734	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 13C-12378-PeCDF
Response Factor: 1.71872
RRF SD: 0.0685337, Relative SD: 3.98748
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	33.06	95.67	1.644	1.719	dd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	33.06	98.47	1.693	1.719	db	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	33.06	98.93	1.700	1.719	bb	db	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	33.06	98.98	1.701	1.719	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	33.07	100.46	1.727	1.719	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	33.06	107.49	1.847	1.719	bb	bd	HRP722_2

Compound name: 13C-23478-PeCDF
Response Factor: 1.61906
RRF SD: 0.113554, Relative SD: 7.0136
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	33.67	94.74	1.534	1.619	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	33.66	94.72	1.534	1.619	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	33.67	100.02	1.619	1.619	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	33.67	96.39	1.561	1.619	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	33.68	100.82	1.632	1.619	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	33.67	113.30	1.834	1.619	bb	bb	HRP722_2

Compound name: 13C-123478-HxCDF
Response Factor: 1.29127
RRF SD: 0.04042, Relative SD: 3.13026
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	35.68	96.39	1.245	1.291	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	35.67	95.99	1.240	1.291	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	35.68	101.19	1.307	1.291	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	35.68	100.39	1.296	1.291	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	35.69	102.77	1.327	1.291	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	35.68	103.27	1.333	1.291	bd	bd	HRP722_2

Compound name: 13C-123678-HxCDF
Response Factor: 1.59829
RRF SD: 0.0276943, Relative SD: 1.73275
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	35.77	100.06	1.599	1.598	db	db	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	35.77	102.38	1.636	1.598	dd	db	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 13C-123678-HxCDF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	100.000	35.77	100.91	1.613	1.598	db	db	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	35.77	99.20	1.585	1.598	db	db	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	35.78	100.25	1.602	1.598	dd	db	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	35.77	97.21	1.554	1.598	db	db	HRP722_2

Compound name: 13C-234678-HxCDF
Response Factor: 1.33772
RRF SD: 0.0172676, Relative SD: 1.29082
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.25	97.96	1.310	1.338	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.24	98.91	1.323	1.338	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.25	100.54	1.345	1.338	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.25	100.71	1.347	1.338	bb	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.25	100.50	1.344	1.338	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.25	101.39	1.356	1.338	bd	bd	HRP722_2

Compound name: 13C-123789-HxCDF
Response Factor: 1.18984
RRF SD: 0.0308055, Relative SD: 2.58904
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.99	96.35	1.146	1.190	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.98	97.27	1.157	1.190	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.99	102.97	1.225	1.190	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.99	100.95	1.201	1.190	bb	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	37.00	101.33	1.206	1.190	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.99	101.12	1.203	1.190	bd	bb	HRP722_2

Compound name: 13C-1234678-HpCDF
Response Factor: 1.53684
RRF SD: 0.031116, Relative SD: 2.02467
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	38.40	98.20	1.509	1.537	bb	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	38.40	98.02	1.506	1.537	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	38.41	102.00	1.568	1.537	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	38.40	101.35	1.558	1.537	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	38.41	102.14	1.570	1.537	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	38.41	98.29	1.511	1.537	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 13C-1234789-HpCDF
Response Factor: 1.19821
RRF SD: 0.0266865, Relative SD: 2.22719
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	40.25	96.97	1.162	1.198	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	40.25	97.35	1.166	1.198	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	40.25	101.87	1.221	1.198	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	40.25	101.03	1.211	1.198	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	40.26	101.08	1.211	1.198	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	40.25	101.70	1.219	1.198	bb	bb	HRP722_2

Compound name: 13C-1234-TCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	30.12	100.00	1.000	1.000	bb	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	30.13	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2

Compound name: 13C-123789-HxCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.69	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2

Compound name: 37Cl-2378-TCDD
Response Factor: 1.1239
RRF SD: 0.0721847, Relative SD: 6.42271
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	0.250	30.82	0.24	1.079	1.124	bb		HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	0.500	30.82	0.47	1.062	1.124	bb		HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 37Cl-2378-TCDD

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	2.000	30.83	1.89	1.061	1.124	bb		HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	10.000	30.83	10.12	1.138	1.124	bb		HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	40.000	30.83	41.22	1.158	1.124	bb		HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	30.82	221.68	1.246	1.124	bb		HRP722_2

ICAL Calculation

Inst ID: HRP722_2
ICAL: 06Jun23d

amq
06Jun2023

478 HxD
CS0.5 RRF

$$\frac{(2.15e4)}{(1.74e4)}\frac{(100)}{(1.25)} = 0.9885$$

478 HxD
RRF SD

$$(0.989-1.073)^2+(1.070-1.073)^2+(1.061-1.073)^2+(1.091-1.073)^2+(1.111-1.073)^2+(1.112-1.073)^2 =$$

$$\sqrt{\frac{0.010498}{5}} = 0.04582$$

478 HxD
Relative SD

$$\frac{0.04582}{1.073} \times 100 = 4.27027$$

AVG RRF

$$\frac{6.434}{6} = 1.0723$$

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-1.qld

Last Altered: Friday, June 02, 2023 12:39:01 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:40:14 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-1, Date: 01-Jun-2023, Time: 19:02:31, ID: CS3WT UD230328-04.1 CPSZS, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

	Name	RT
1	First TCDF	25.66
2	Last TCDF	31.64
3	First PeCDF	31.61
4	Last PeCDF	34.31
5	First HxCDF	34.78
6	Last HxCDF	37.01
7	First HpCDF	38.43
8	Last HpCDF	40.28
9	OCDF	43.95
10	First TCDD	27.37
11	2378-TCDD	30.85
12	Last TCDD	31.55
13	First PeCDD	32.56
14	Last PeCDD	34.13
15	First HxCDD	35.20
16	Last HxCDD	36.70
17	First HpCDD	38.75
18	Last HpCDD	39.64
19	OCDD	43.65

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-1.qld

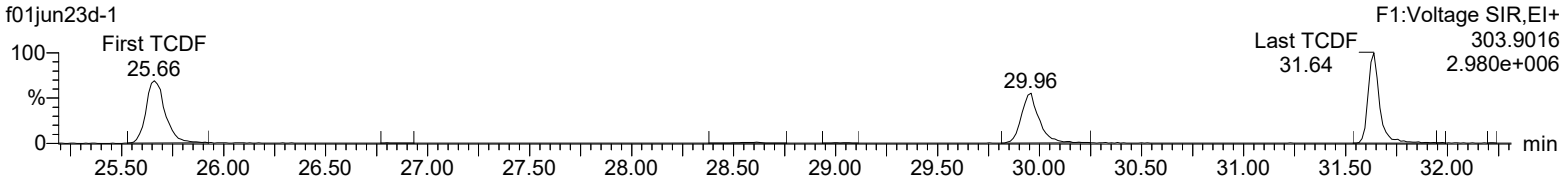
Last Altered: Friday, June 02, 2023 12:39:01 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:40:14 Eastern Daylight Time

06/02/2023

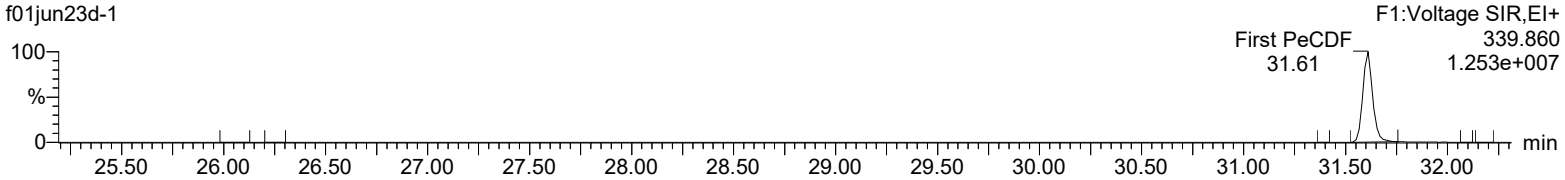
Method: C:\MassLynx\Default.pro\Methdb\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-1, Date: 01-Jun-2023, Time: 19:02:31, ID: CS3WT UD230328-04.1 CPSZS, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

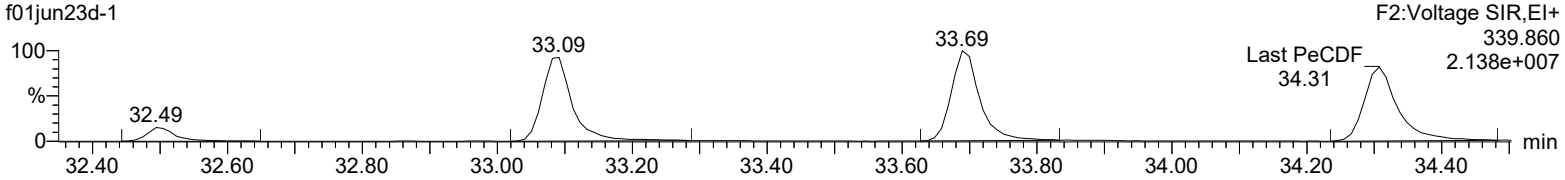
First TCDF



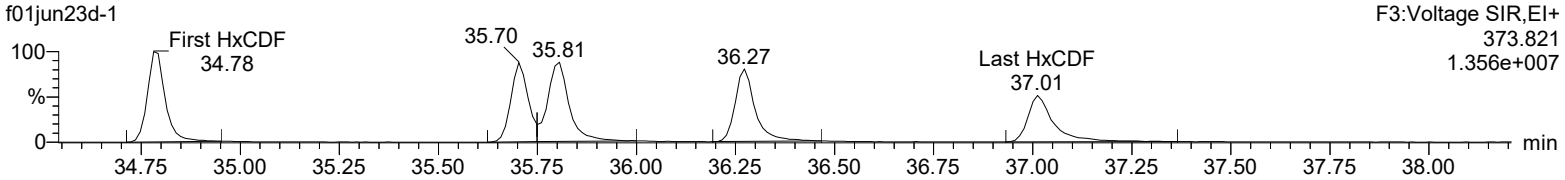
First PeCDF



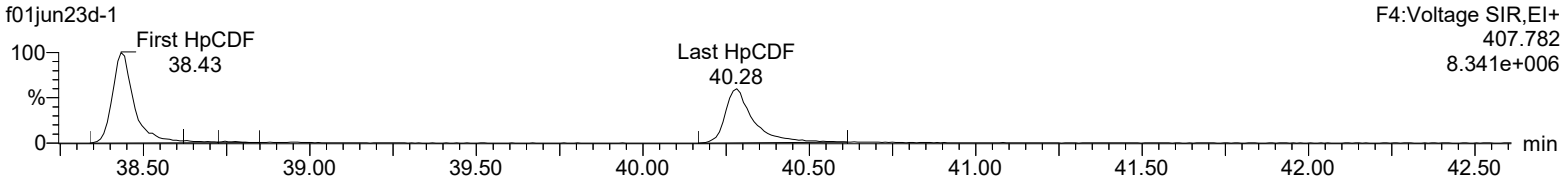
Last PeCDF



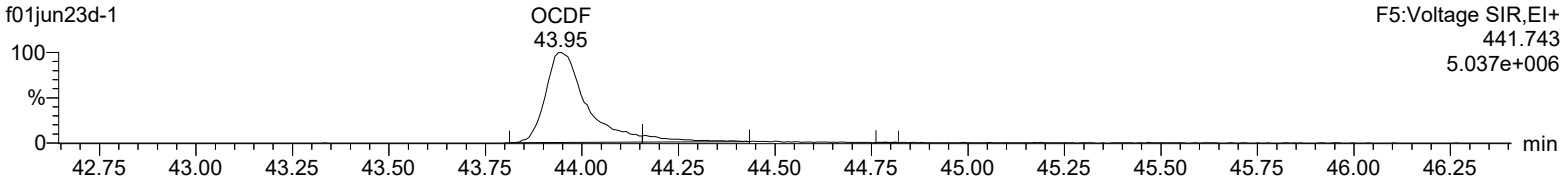
First HxCDF



First HpCDF



OCDF



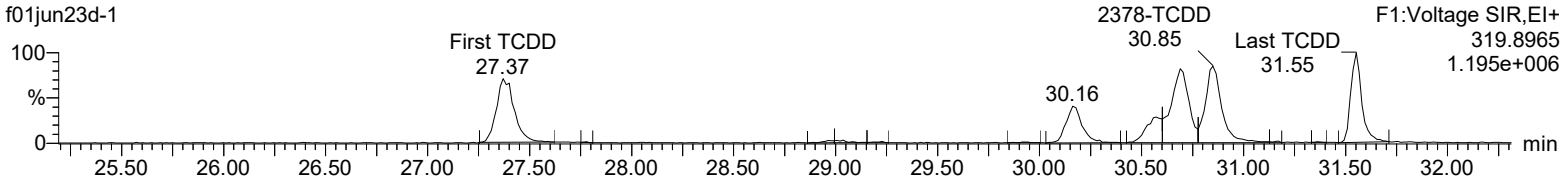
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-1.qld

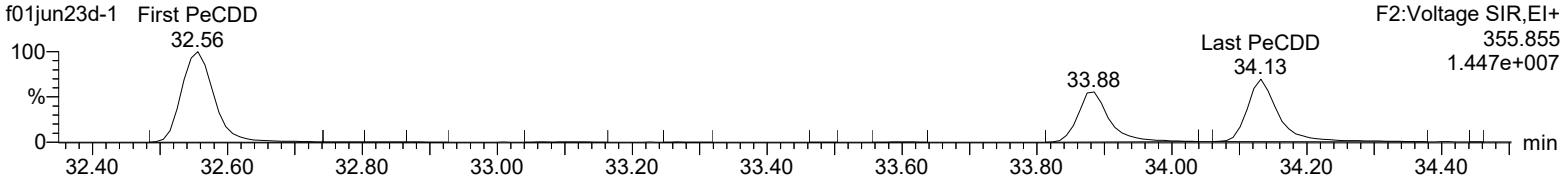
Last Altered: Friday, June 02, 2023 12:39:01 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:40:14 Eastern Daylight Time

Name: f01jun23d-1, Date: 01-Jun-2023, Time: 19:02:31, ID: CS3WT UD230328-04.1 CPSZS, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

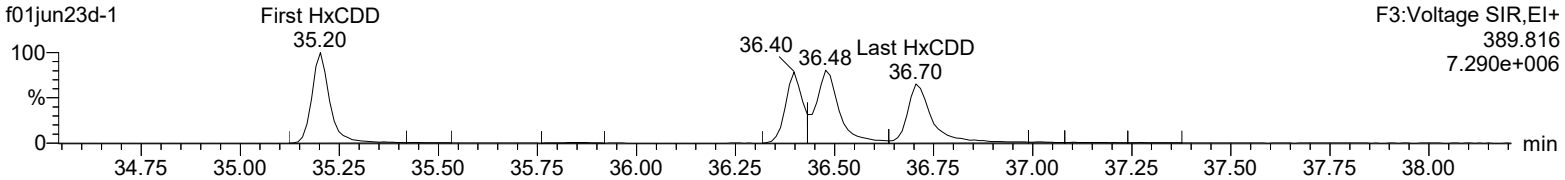
First TCDD



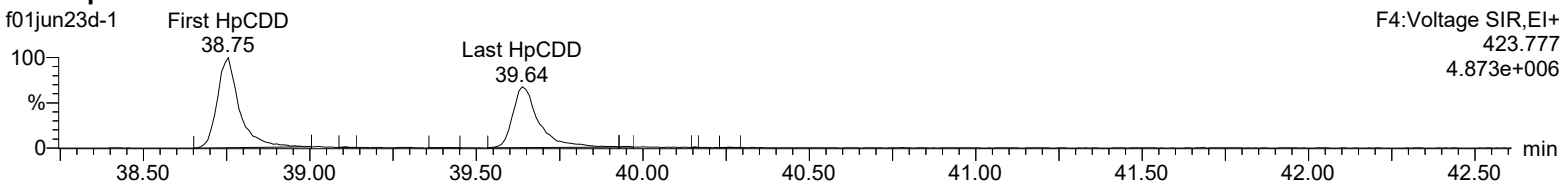
First PeCDD



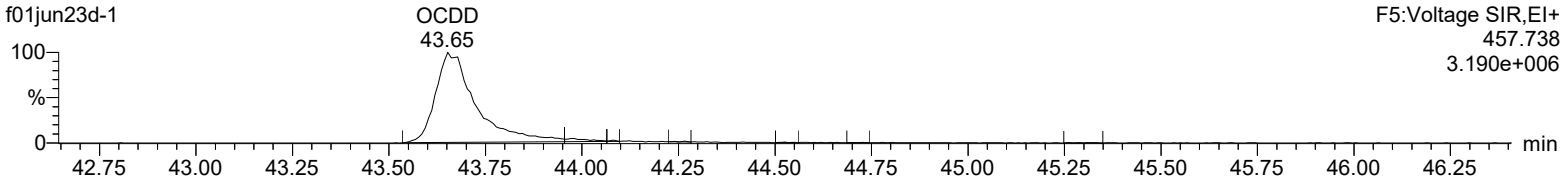
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:18 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	3.99e3	4.82e3	8.81e3	30.81	1.000	0.83	NO	0.263	1.158	1.100	5.89	0.00933	4.40e4	255	172.7	5.45e4	1100	49.6	bb	MM
2	12378-PeCDD	1.86e4	1.17e4	3.03e4	33.88	1.001	1.59	NO	1.228	1.144	1.164	4.32	0.0237	3.23e5	2547	126.8	2.37e5	1577	150.3	bd	bd
3	123478-HxCDD	1.22e4	9.31e3	2.15e4	36.39	1.000	1.31	NO	1.153	0.989	1.073	4.27	0.0639	2.09e5	3209	65.2	1.90e5	4994	38.0	dd	bd
4	123678-HxCDD	1.60e4	1.24e4	2.84e4	36.46	1.000	1.29	NO	1.195	1.017	1.064	5.73	0.0576	2.27e5	3209	70.9	2.09e5	4994	41.9	dd	dd
5	123789-HxCDD	1.31e4	1.07e4	2.38e4	36.69	1.007	1.22	NO	1.125	0.959	1.066	6.89	0.0605	2.24e5	3209	69.8	1.47e5	4994	29.4	dd	db
6	1234678-HpCDD	1.16e4	1.11e4	2.27e4	39.62	1.000	1.04	NO	1.112	1.092	1.228	7.21	0.138	1.51e5	3479	43.3	1.23e5	8177	15.1	bd	bd
7	OCDD	1.68e4	1.80e4	3.47e4	43.65	1.000	0.93	NO	2.371	1.050	1.107	6.02	0.153	1.46e5	4118	35.5	1.67e5	2563	65.0	MM	MM
8	2378-TCDF	6.88e3	8.09e3	1.50e4	29.91	1.000	0.85	NO	0.236	1.277	1.352	4.83	0.0410	7.09e4	2379	29.8	8.14e4	6786	12.0	bd	bb
9	12378-PeCDF	4.13e4	2.71e4	6.84e4	33.07	1.000	1.53	NO	1.191	1.214	1.274	6.94	0.0297	7.84e5	6293	124.5	4.85e5	6481	74.8	bd	bd
10	23478-PeCDF	4.49e4	2.71e4	7.19e4	33.68	1.000	1.66	NO	1.227	1.368	1.394	4.15	0.0283	8.39e5	6293	133.3	5.75e5	6481	88.7	bd	bb
11	123478-HxCDF	2.57e4	1.96e4	4.53e4	35.68	1.000	1.31	NO	1.200	1.361	1.418	4.11	0.0372	4.72e5	6472	72.9	3.28e5	3716	88.3	bd	bd
12	123678-HxCDF	3.35e4	2.39e4	5.74e4	35.78	1.000	1.40	NO	1.217	1.341	1.378	4.15	0.0355	5.59e5	6472	86.4	3.72e5	3716	100.2	db	dd
13	234678-HxCDF	2.55e4	2.12e4	4.66e4	36.25	1.000	1.20	NO	1.170	1.331	1.422	5.96	0.0403	4.37e5	6472	67.6	3.73e5	3716	100.3	bd	dd
14	123789-HxCDF	2.13e4	1.56e4	3.68e4	37.00	1.000	1.36	NO	1.154	1.202	1.302	5.43	0.0596	2.87e5	6472	44.4	2.21e5	3716	59.4	bd	dd
15	1234678-HpCDF	2.68e4	2.54e4	5.23e4	38.41	1.000	1.06	NO	1.170	1.295	1.384	4.56	0.0538	3.52e5	7827	44.9	3.47e5	4579	75.9	bd	bb
16	1234789-HpCDF	1.78e4	1.95e4	3.74e4	40.25	1.000	0.92	NO	1.102	1.203	1.364	8.52	0.0980	2.06e5	7827	26.3	1.95e5	4579	42.6	bb	bd
17	OCDF	2.09e4	2.58e4	4.67e4	43.96	1.007	0.81	NO	2.013	1.411	1.752	16.82	0.213	1.78e5	7974	22.3	2.21e5	6812	32.4	bd	bd
18	13C-2378-TCDD	1.35e6	1.69e6	3.04e6	30.81	1.023	0.80	NO	97.471	1.110	1.139	2.81	0.130	1.47e7	8948	1638.4	1.81e7	6703	2704.5	bb	bb
19	13C-12378-PeCDD	1.30e6	8.14e5	2.12e6	33.85	1.124	1.60	NO	95.012	0.773	0.813	6.11	0.153	2.30e7	4806	4791.6	1.45e7	8318	1748.8	bb	bb
20	13C-123478-HxCDD	9.76e5	7.64e5	1.74e6	36.38	0.992	1.28	NO	95.996	0.814	0.847	3.44	0.224	1.68e7	7674	2188.1	1.32e7	13419	982.2	bd	bd
21	13C-123678-HxCDD	1.26e6	9.77e5	2.24e6	36.46	0.994	1.29	NO	101.810	1.046	1.027	0.98	0.185	1.88e7	7674	2454.2	1.48e7	13419	1102.3	dd	dd
22	13C-1234678-HpCDD	8.60e5	8.05e5	1.67e6	39.61	1.080	1.07	NO	97.282	0.779	0.800	2.20	0.313	8.91e6	14518	613.6	8.25e6	13339	618.6	bd	bd
23	13C-OCDD	1.28e6	1.36e6	2.65e6	43.64	1.190	0.94	NO	189.670	0.619	0.653	4.31	0.401	9.60e6	13346	719.1	1.05e7	15754	668.9	bd	bd
24	13C-2378-TCDF	2.13e6	2.56e6	4.69e6	29.90	0.993	0.83	NO	98.574	1.709	1.734	1.52	0.110	1.88e7	10447	1795.6	2.30e7	9788	2348.4	bd	bb
25	13C-12378-PeCDF	2.78e6	1.73e6	4.51e6	33.06	1.098	1.61	NO	95.671	1.644	1.719	3.99	0.361	5.20e7	30446	1707.0	3.13e7	35022	893.6	dd	bb
26	13C-23478-PeCDF	2.61e6	1.59e6	4.21e6	33.67	1.118	1.64	NO	94.743	1.534	1.619	7.01	0.383	5.02e7	30446	1648.7	3.02e7	35022	861.4	bb	bb
27	13C-123478-HxCDF	9.30e5	1.73e6	2.66e6	35.68	0.973	0.54	NO	96.389	1.245	1.291	3.13	0.249	1.69e7	17160	982.7	3.15e7	18671	1685.7	bd	bd
28	13C-123678-HxCDF	1.21e6	2.21e6	3.42e6	35.77	0.975	0.55	NO	100.061	1.599	1.598	1.73	0.202	1.85e7	17160	1075.4	3.42e7	18671	1829.7	db	db
29	13C-234678-HxCDF	9.92e5	1.81e6	2.80e6	36.25	0.988	0.55	NO	97.959	1.310	1.338	1.29	0.241	1.57e7	17160	916.1	2.83e7	18671	1516.4	bb	bb
30	13C-123789-HxCDF	8.53e5	1.60e6	2.45e6	36.99	1.008	0.53	NO	96.350	1.146	1.190	2.59	0.271	1.14e7	17160	665.2	2.07e7	18671	1106.6	bb	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:18 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	9.91e5	2.24e6	3.23e6	38.40	1.047	0.44	NO	98.196	1.509	1.537	2.02	0.271	1.28e7	18387	695.8	2.74e7	27953	979.8	bb	bd
32	13C-1234789-HpCDF	7.81e5	1.70e6	2.49e6	40.25	1.097	0.46	NO	96.969	1.162	1.198	2.23	0.348	7.30e6	18387	396.8	1.60e7	27953	573.8	bd	bb
33	13C-1234-TCDD	1.22e6	1.53e6	2.74e6	30.12	0.000	0.80	NO	100.000	1.000	1.000	0.00	0.148	1.17e7	8948	1309.0	1.46e7	6703	2179.4	bb	bd
34	13C-123789-HxCDD	1.21e6	9.30e5	2.14e6	36.68	0.000	1.30	NO	100.000	1.000	1.000	0.00	0.190	1.57e7	7674	2048.5	1.20e7	13419	892.9	dd	dd
35	37Cl-2378-TCDD	7.40e3		7.40e3	30.82	1.023			0.240	1.079	1.124	6.42	0.0130	8.72e4	1545	56.4				bb	

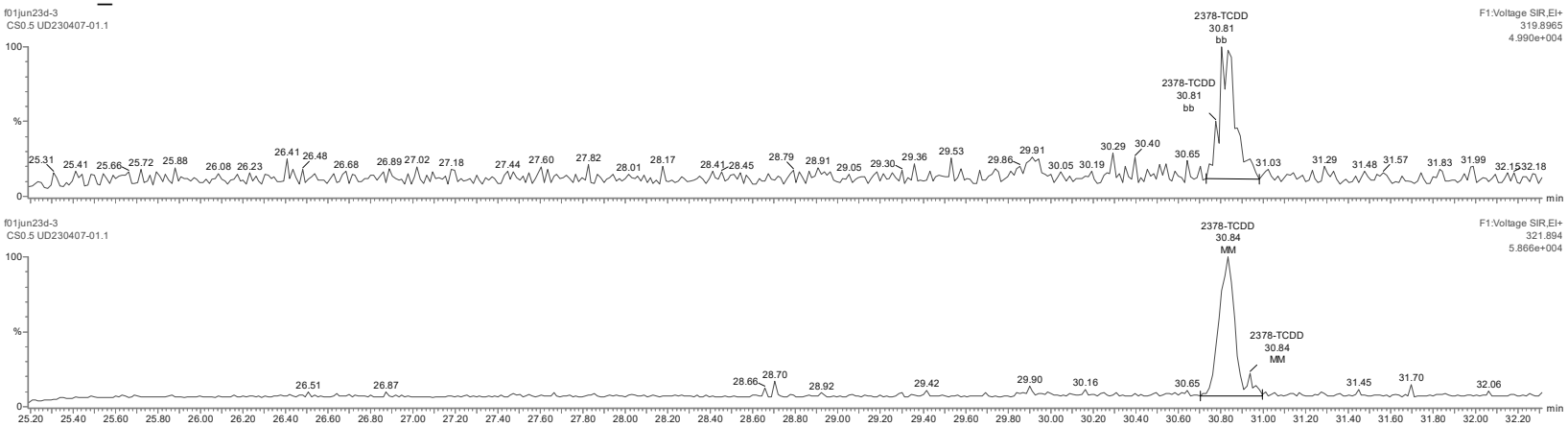
Reasons for Analyst Intervention

Name:f01jun23d-3, ID:

M	M2
	1 2378-TCDD 30.81 - AB
7 OCDD 43.65 - AB	7 OCDD 43.65 - AB

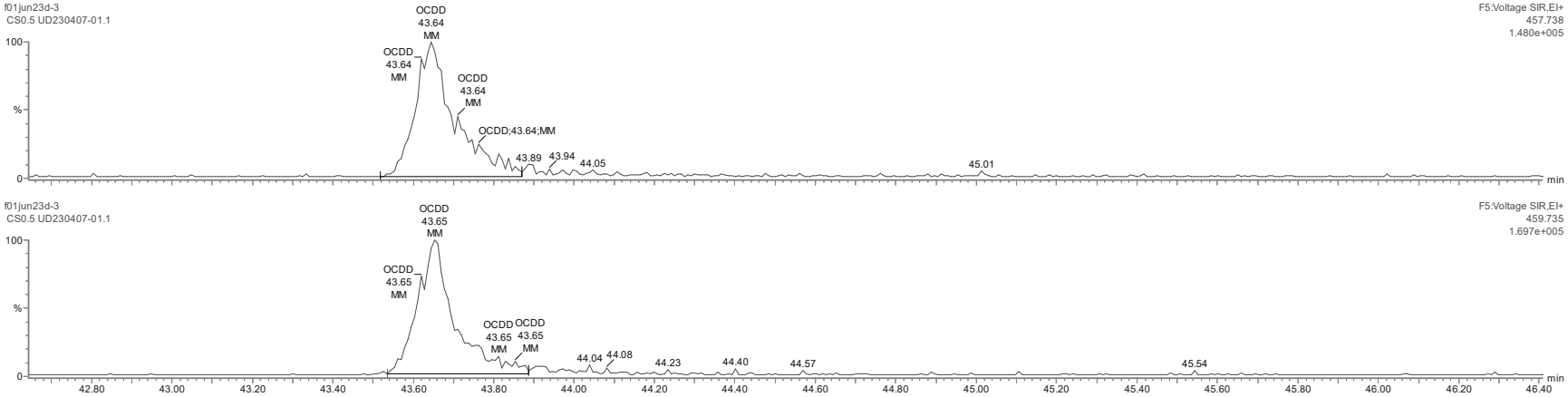
Reason Codes assigned by SM1 on 06-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/02/2023 06/05/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2

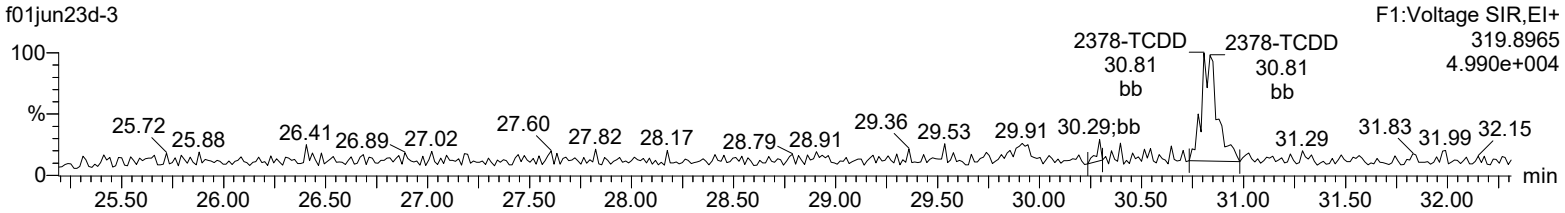


06/05/2023 06/05/2023

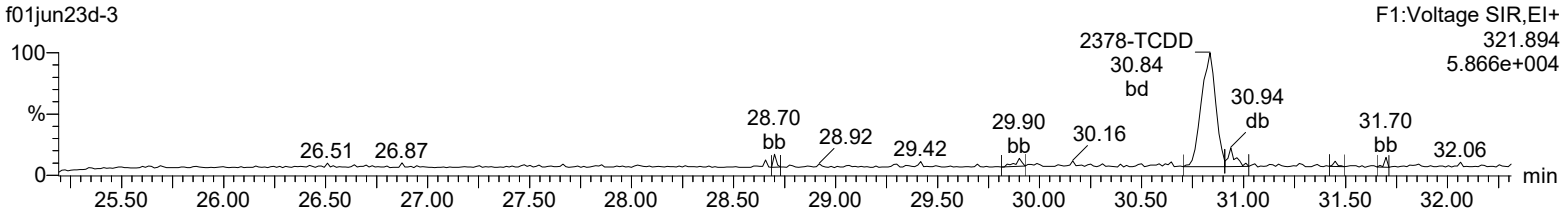
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 02 Jun 2023 15:27:46

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

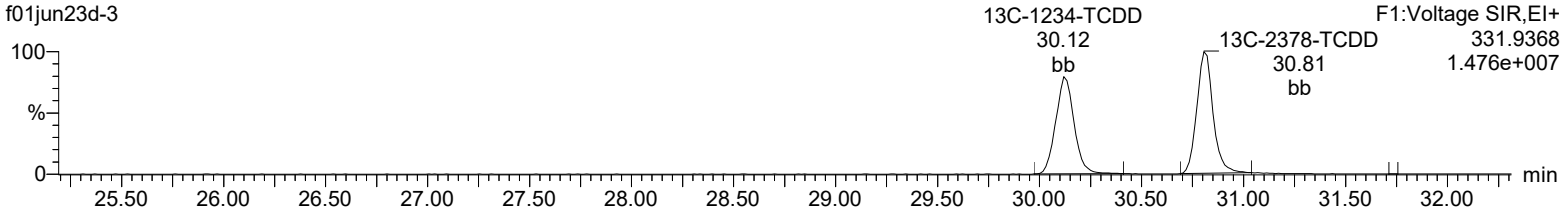
Total-tetradioxins



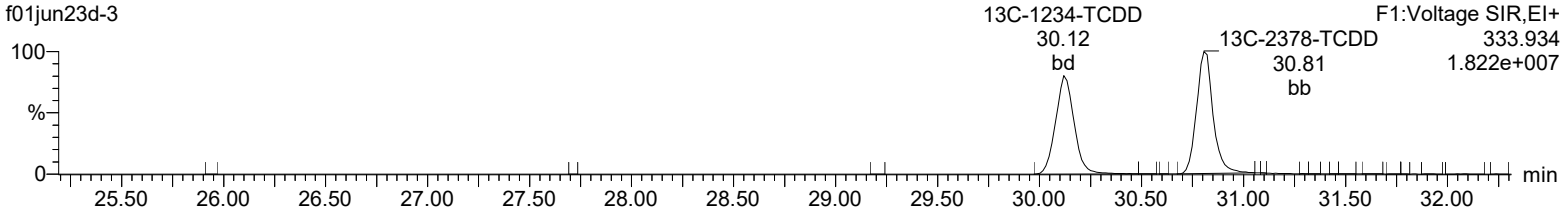
Total-tetradioxins



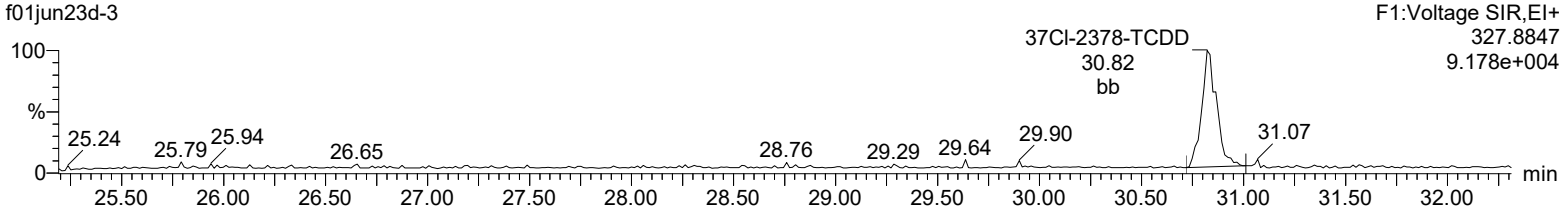
13C-2378-TCDD



13C-2378-TCDD



37Cl-2378-TCDD



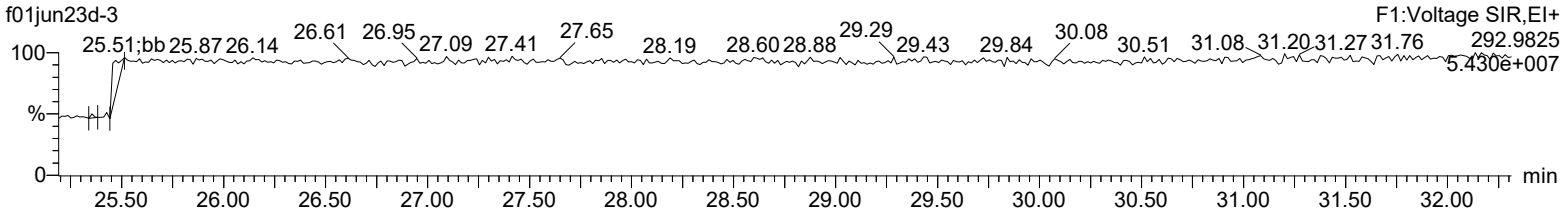
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

Lock Mass F1



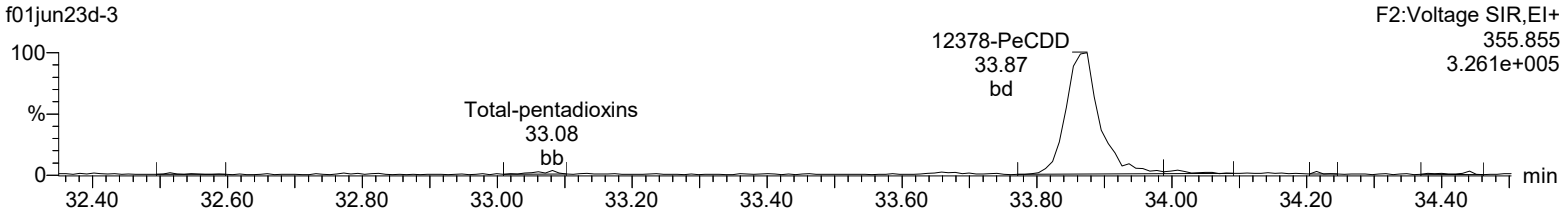
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

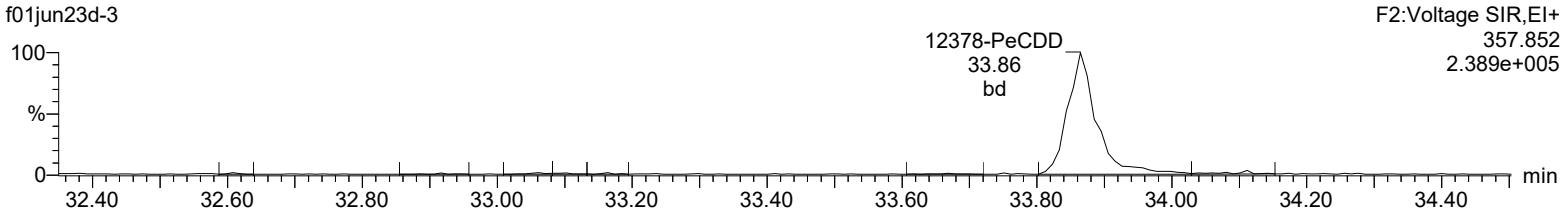
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

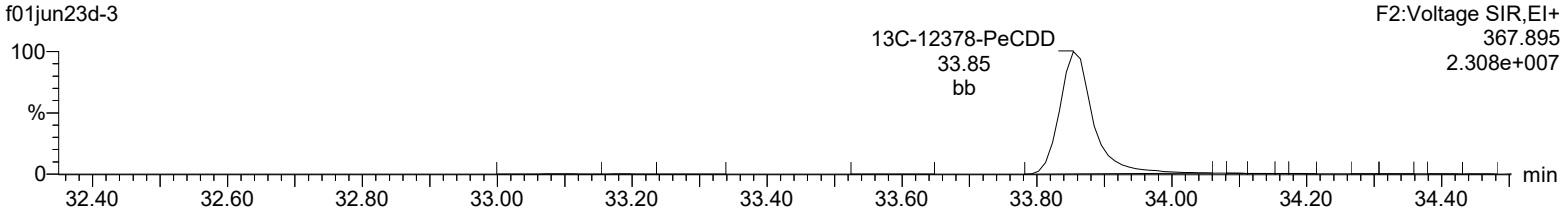
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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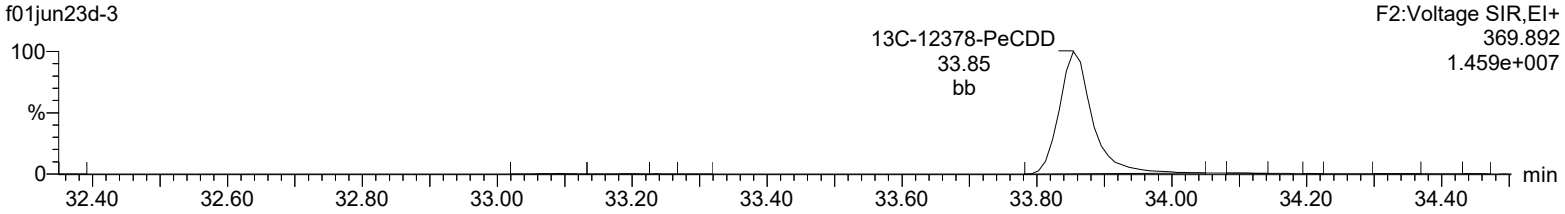
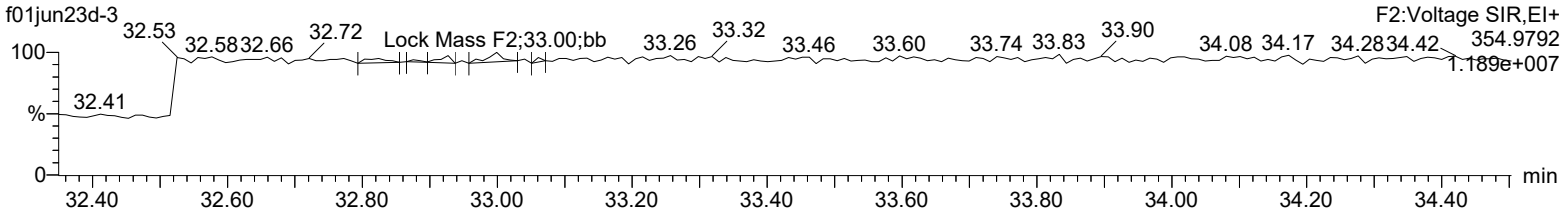


Lock Mass F2



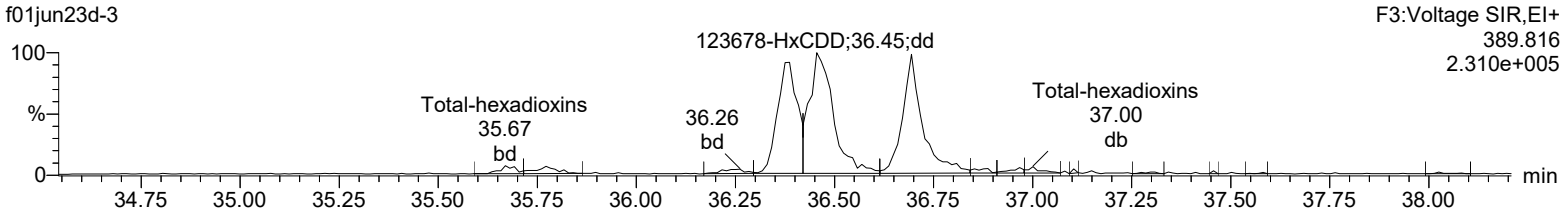
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

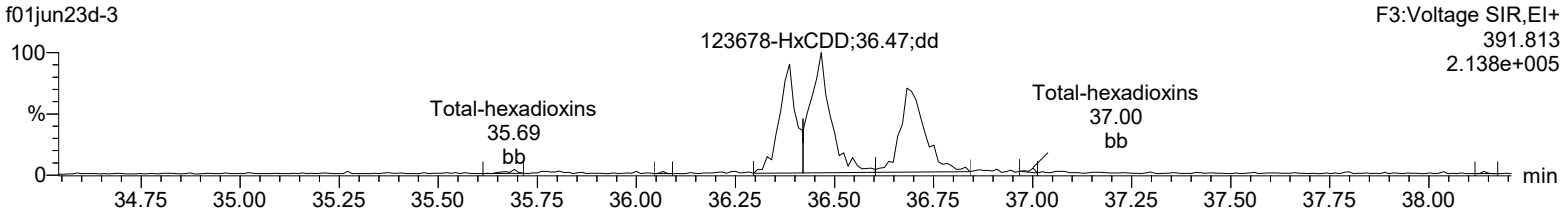
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

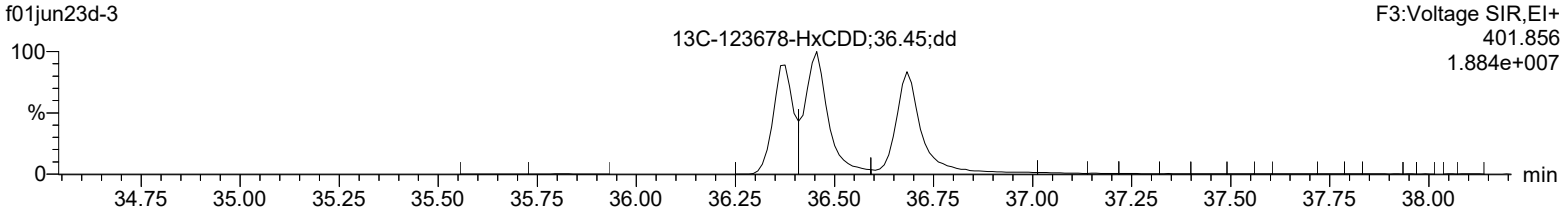
Total-hexadioxins



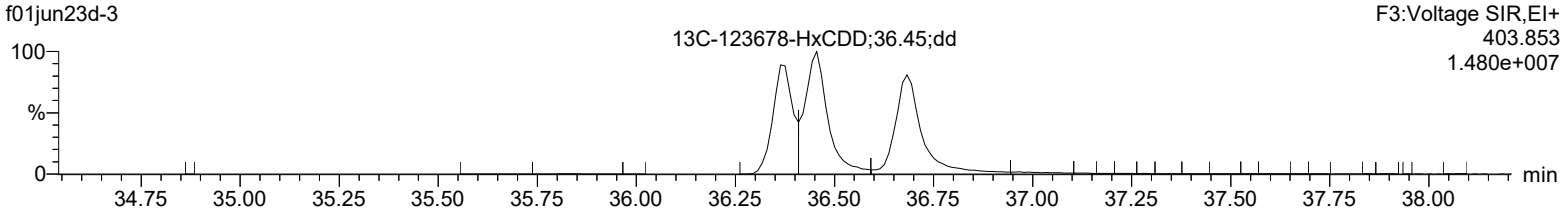
Total-hexadioxins



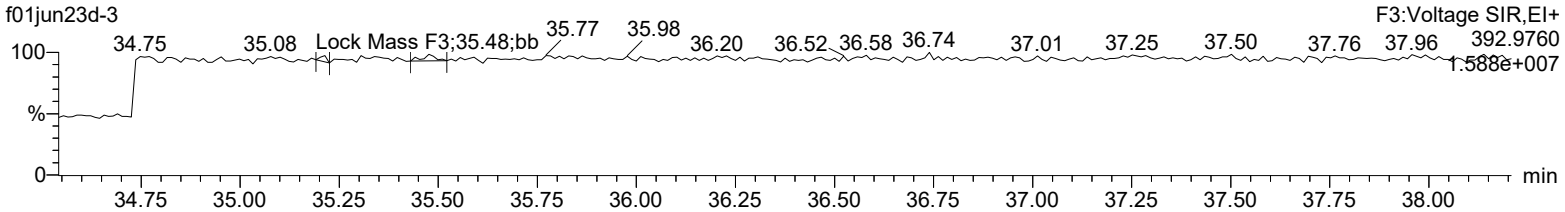
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



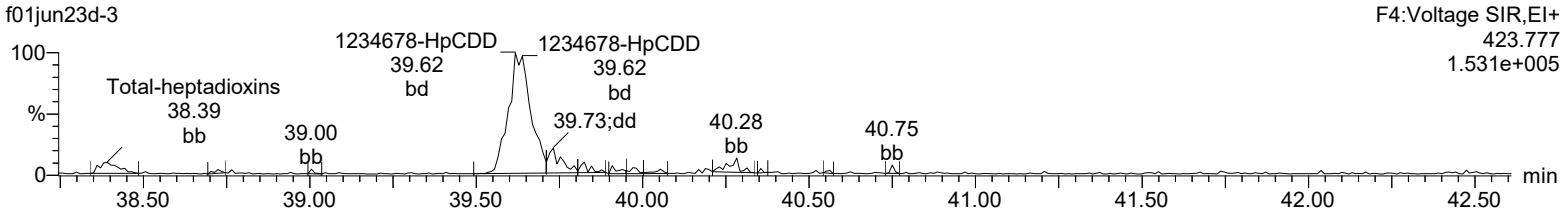
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

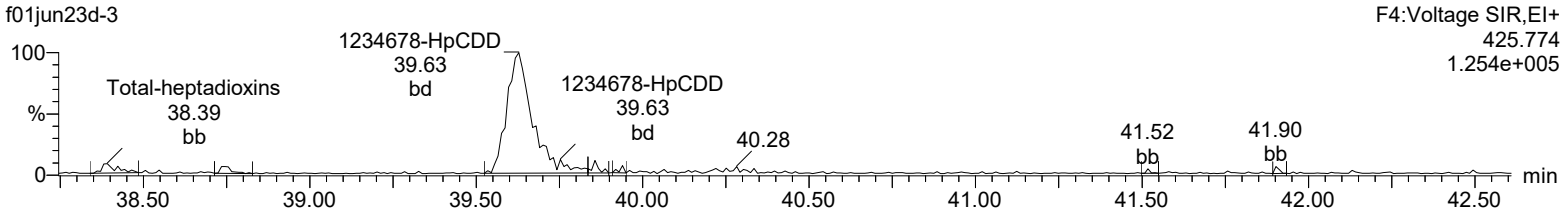
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

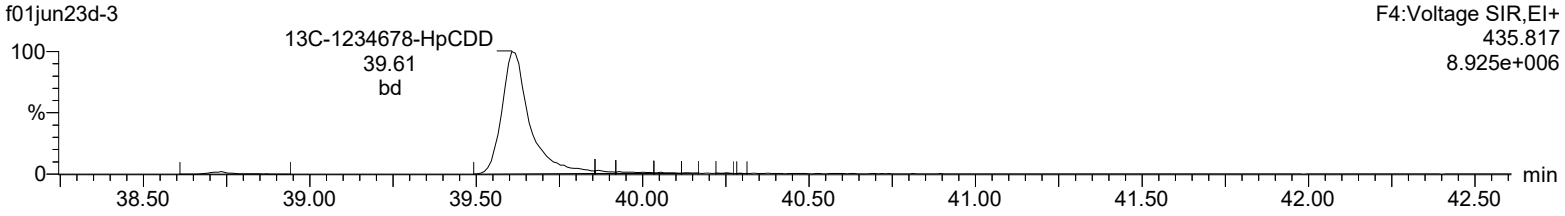
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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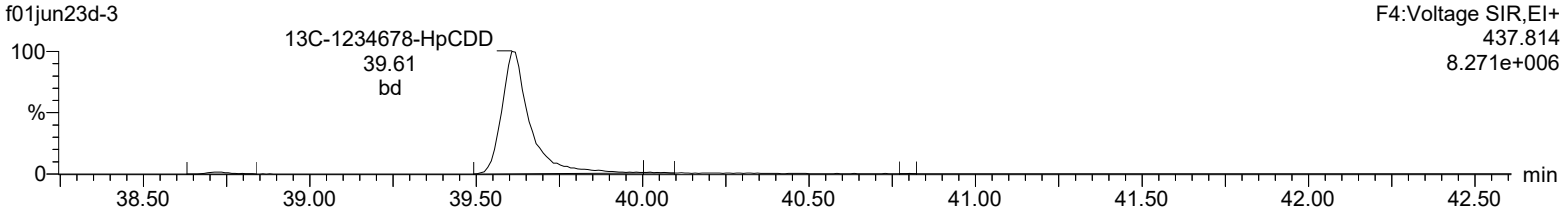
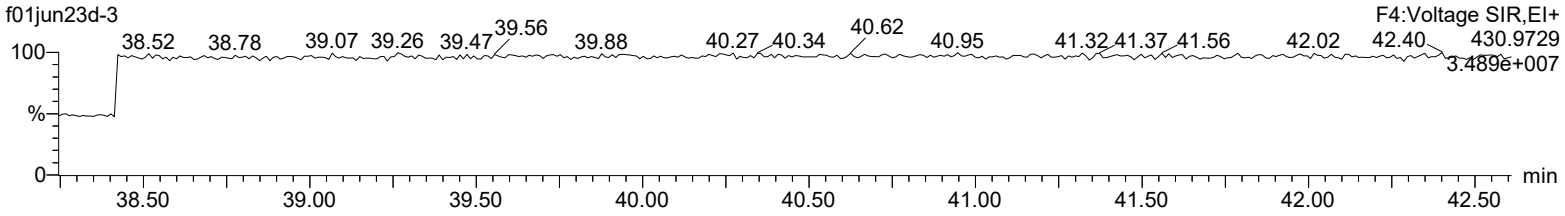


Lock Mass F4



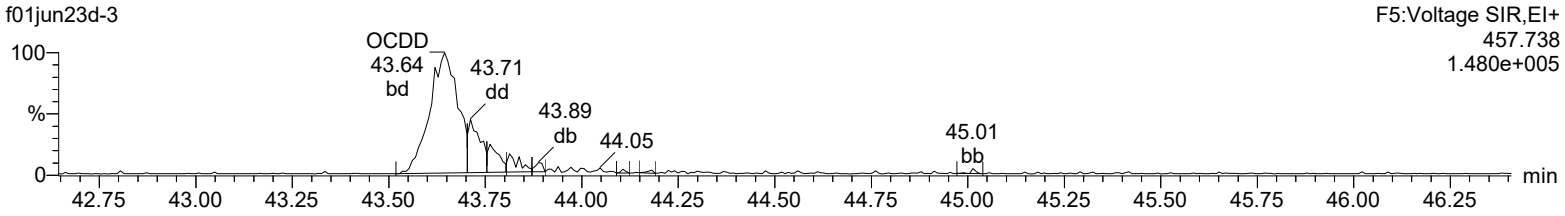
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

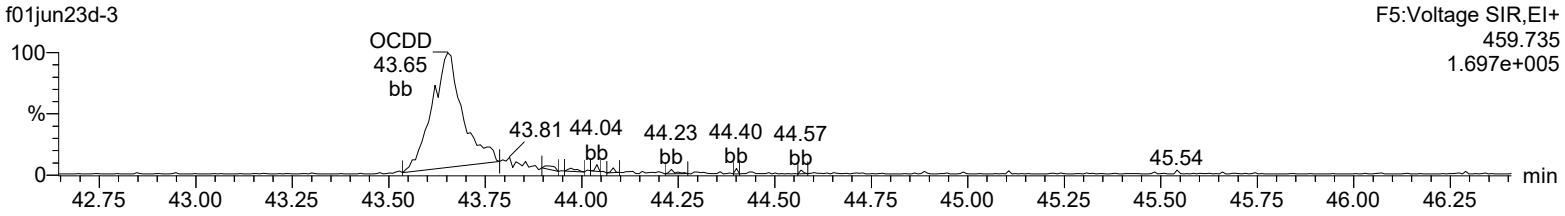
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

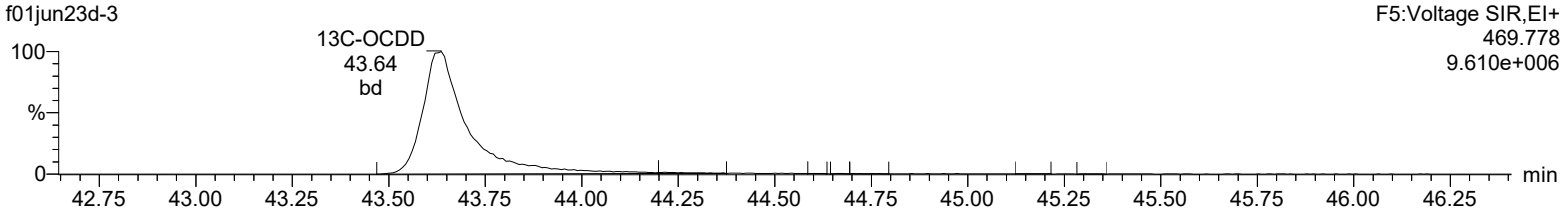
OCDD



OCDD



13C-OCDD



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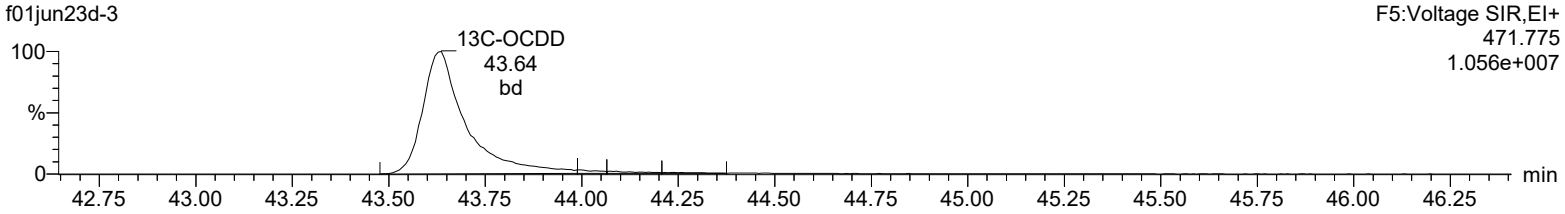
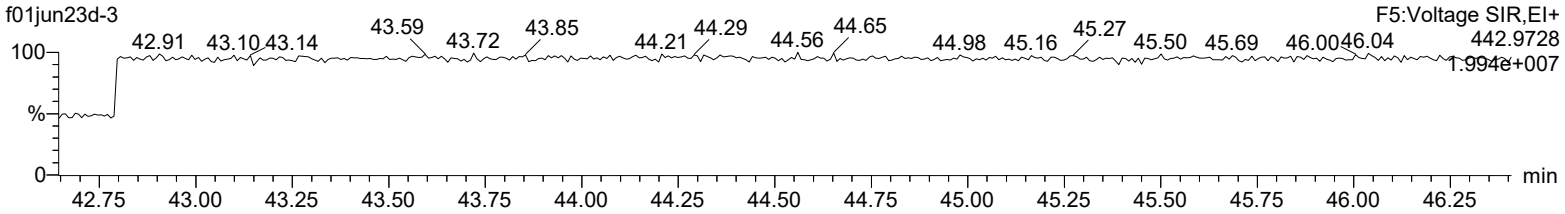


Lock Mass F5



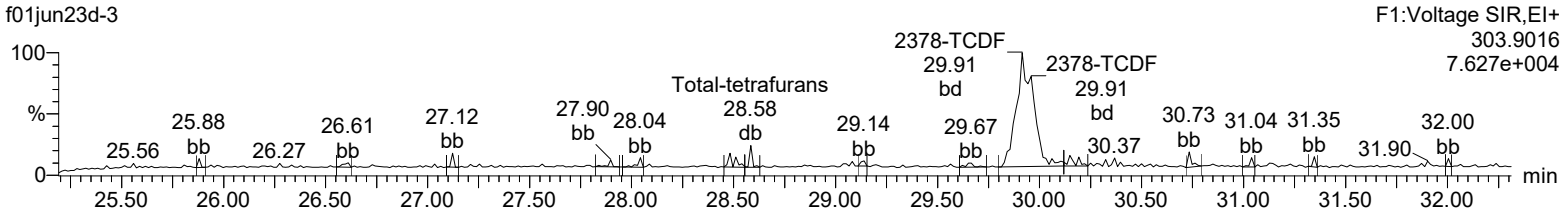
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

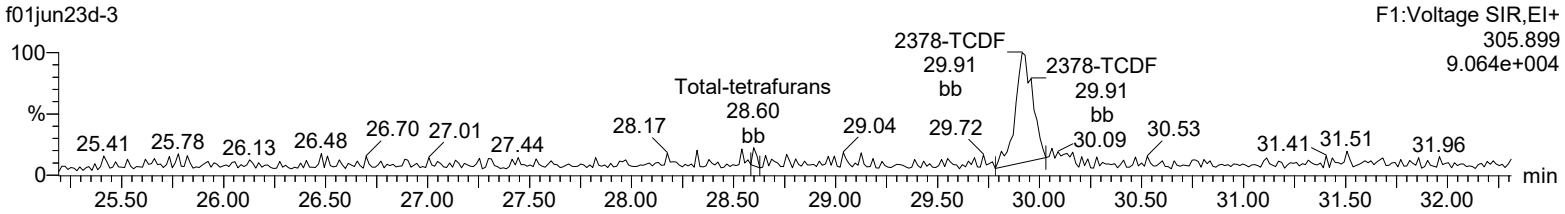
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

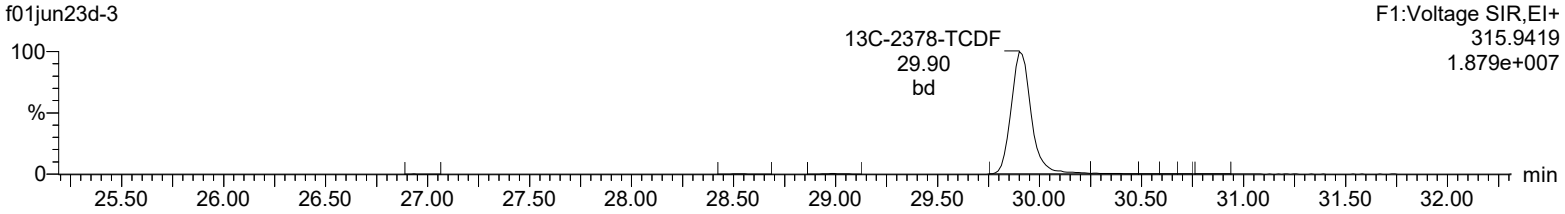
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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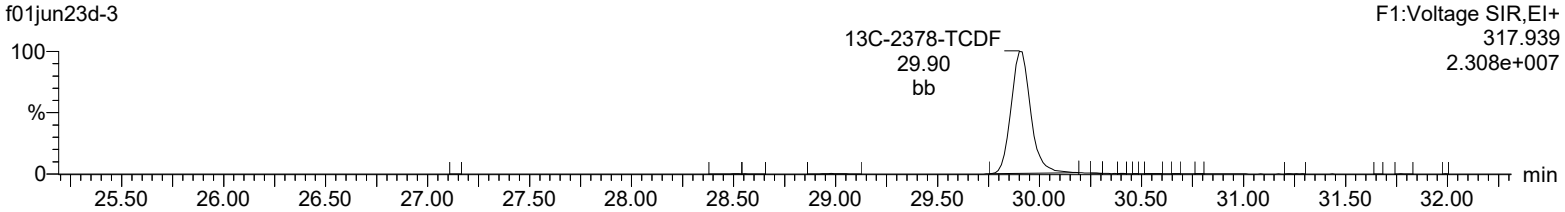
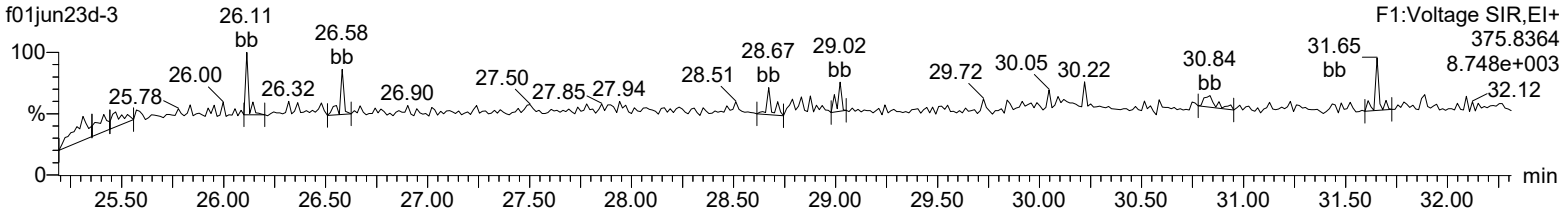
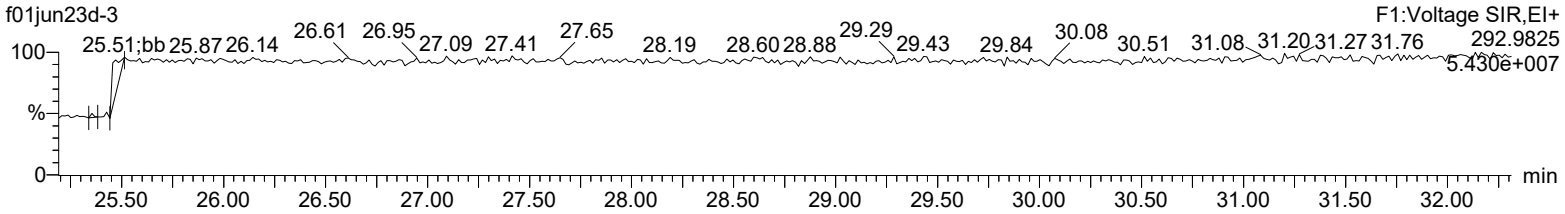


HxDPE



Lock Mass F1



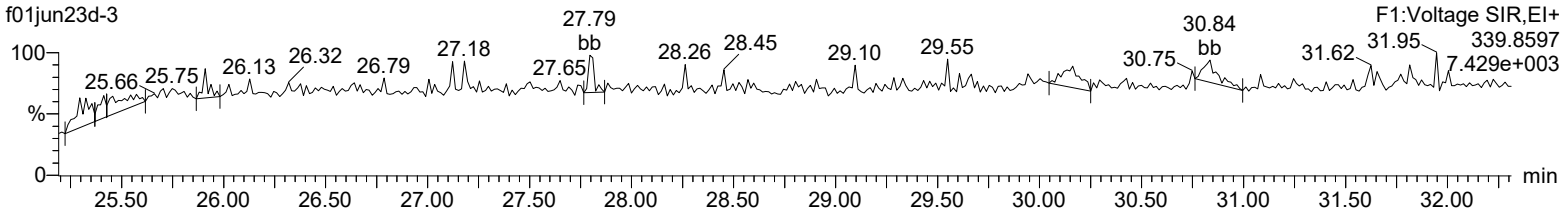
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

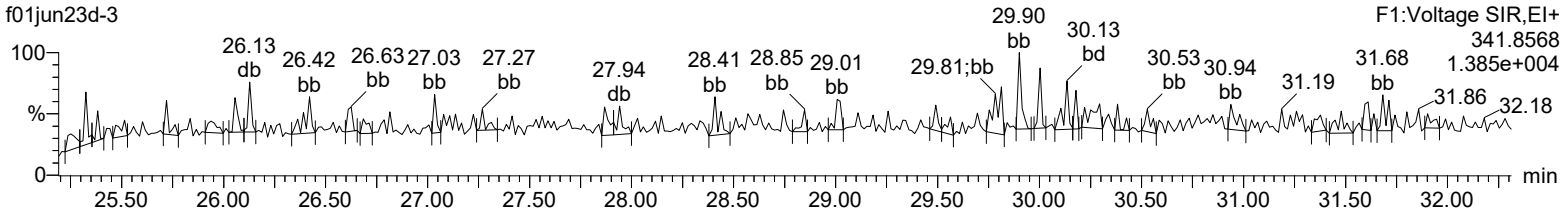
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

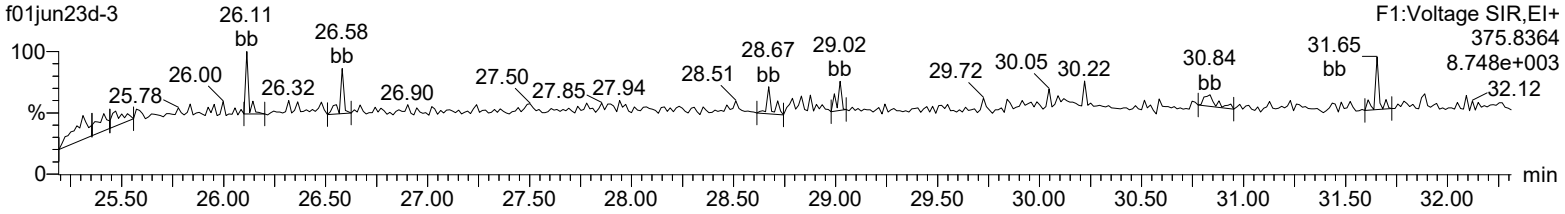
Total-pentafurans (F1)



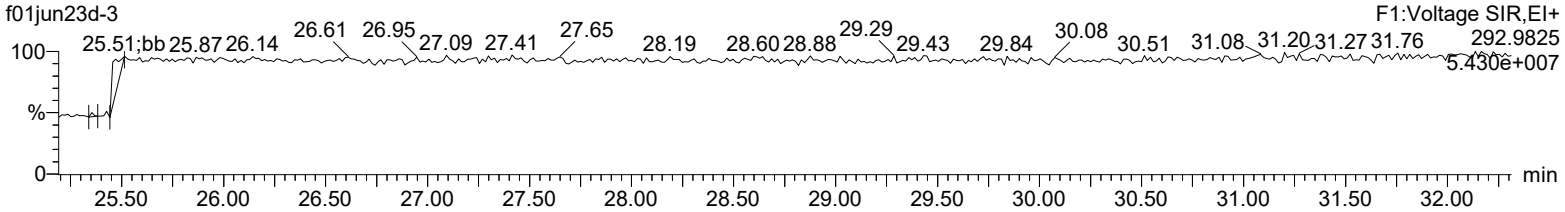
Total-pentafurans (F1)



HxDPE



Lock Mass F1



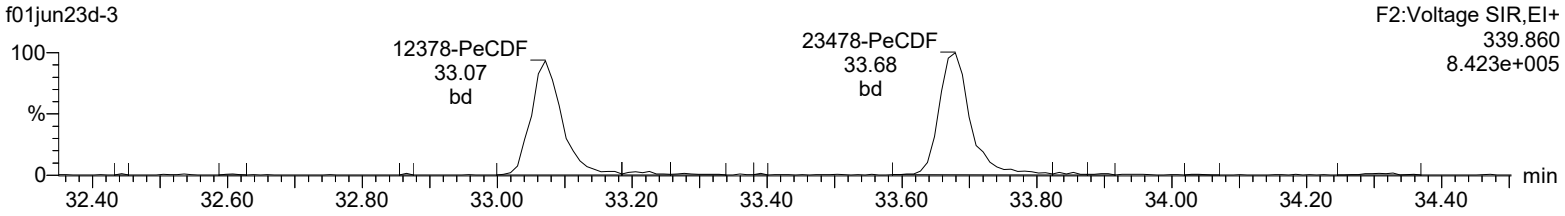
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

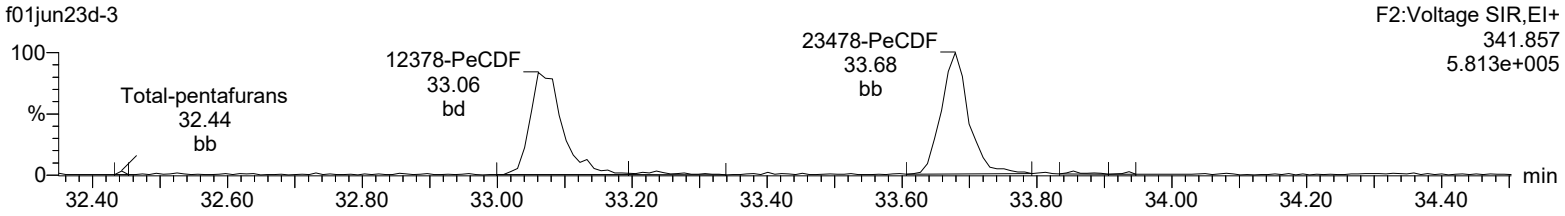
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

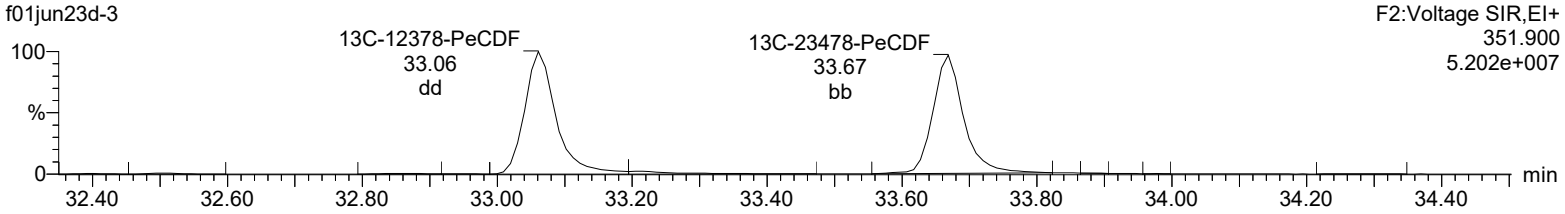
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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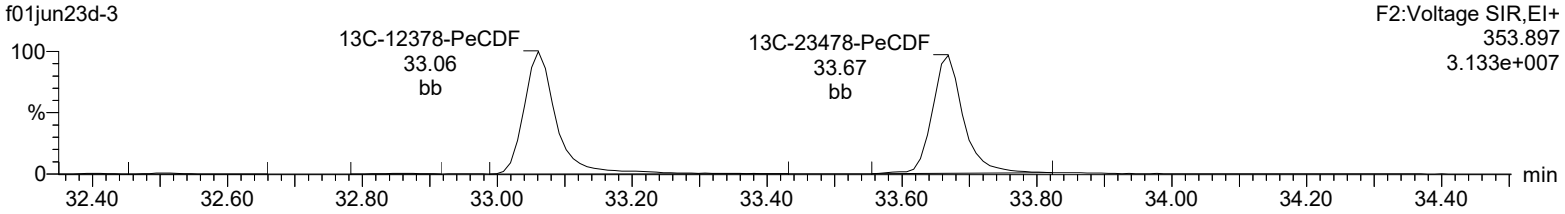
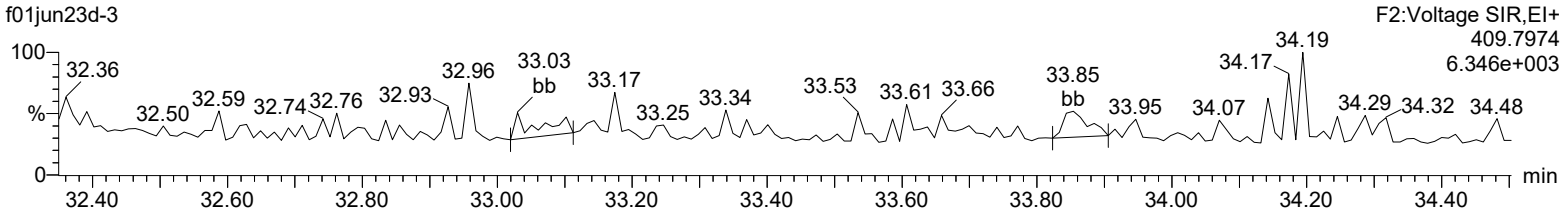
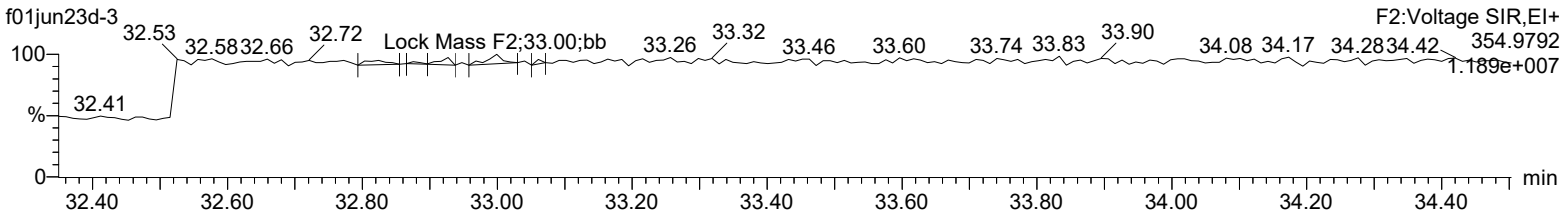


HpDPE



Lock Mass F2



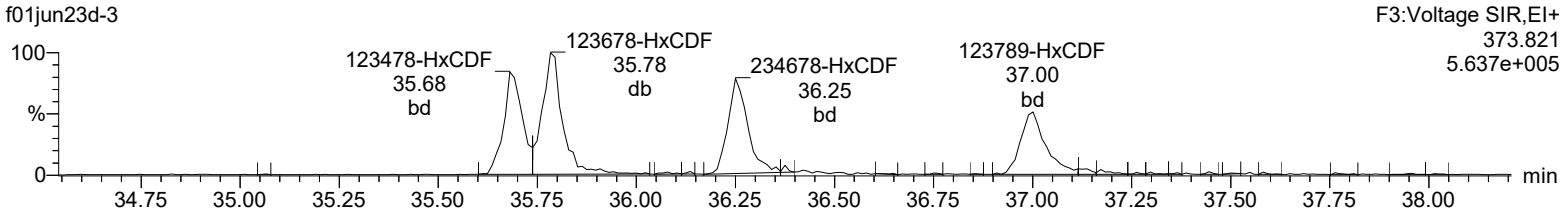
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

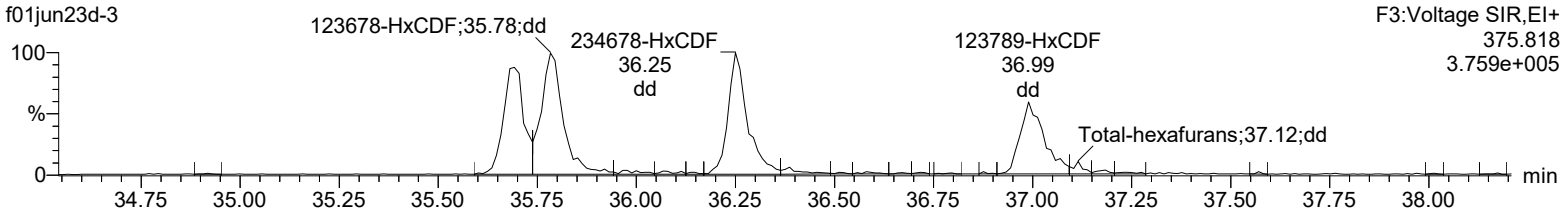
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

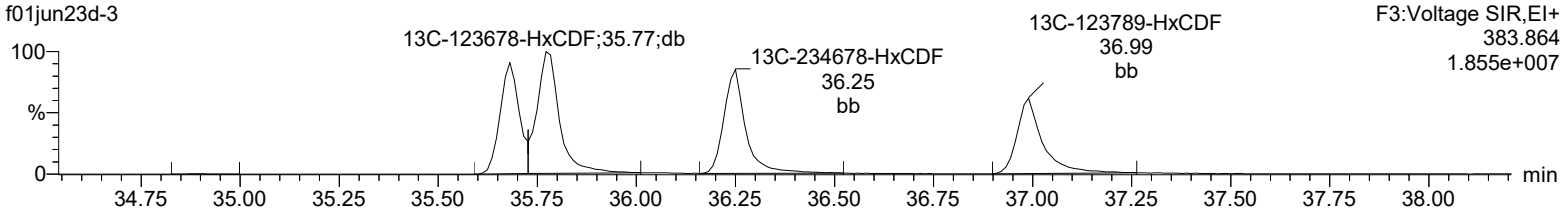
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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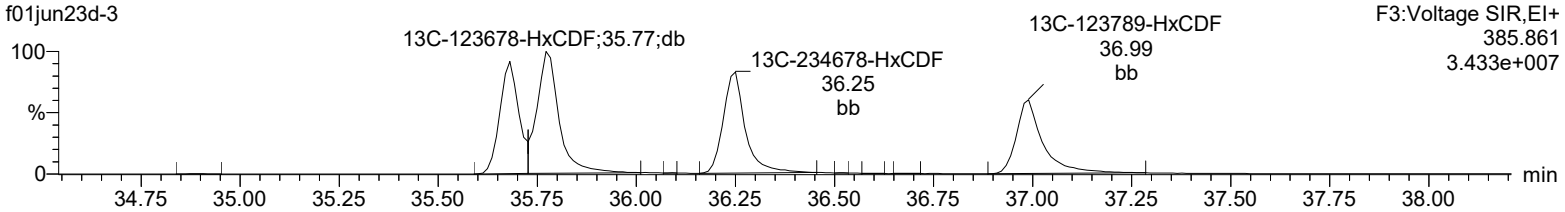

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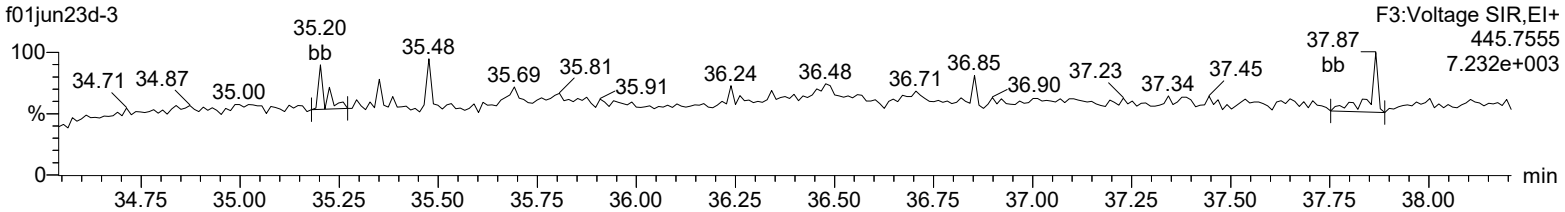
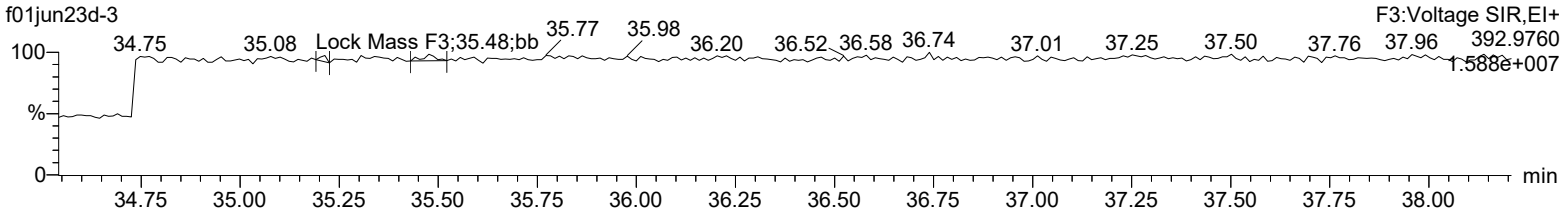


Lock Mass F3



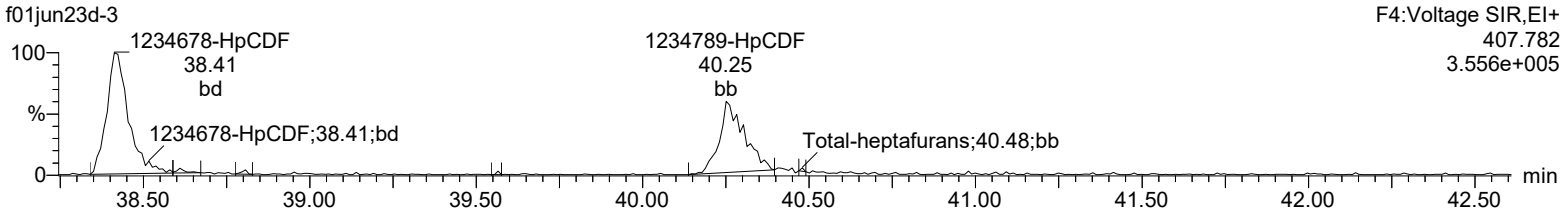
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

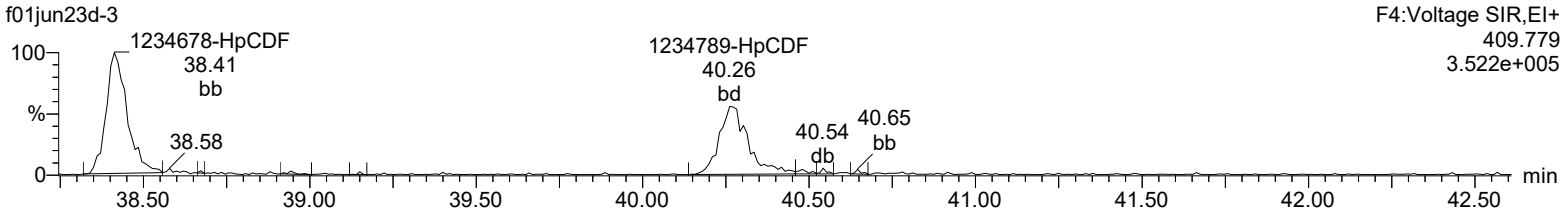
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

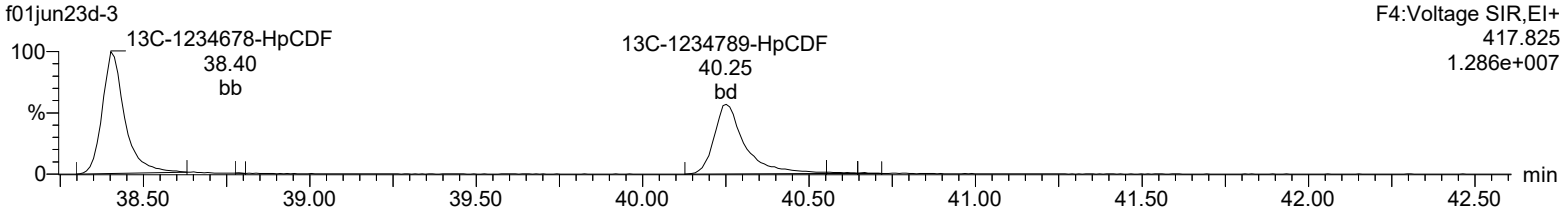
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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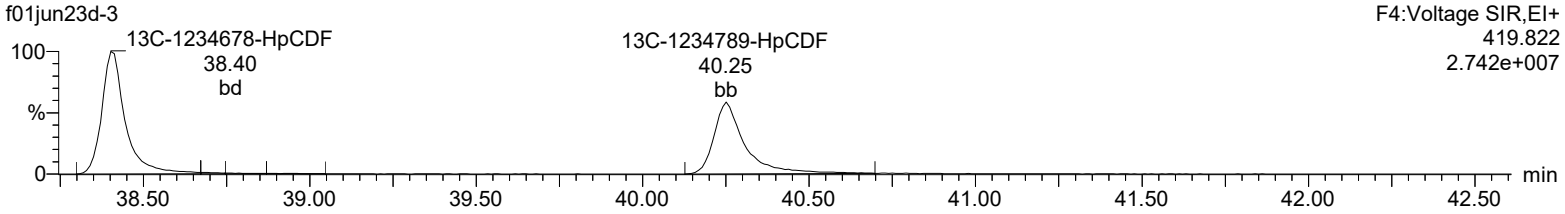

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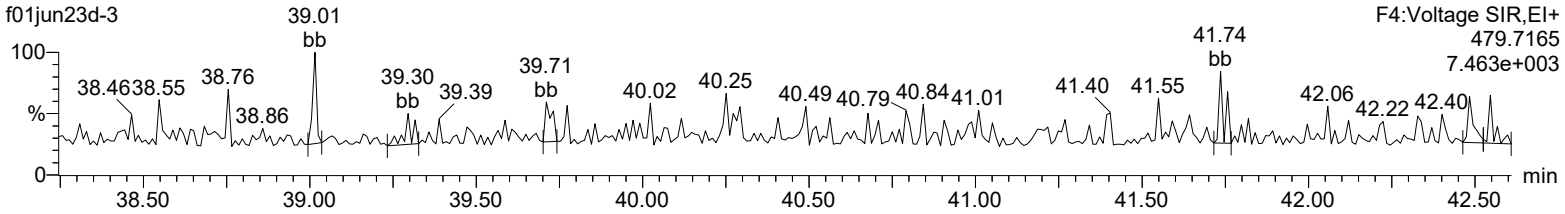
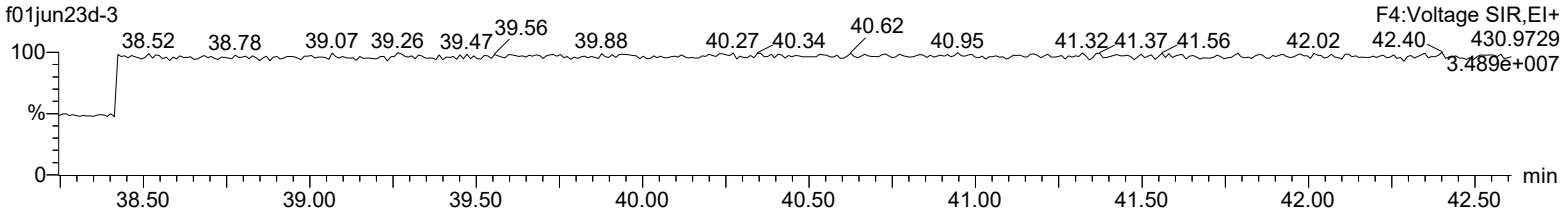


Lock Mass F4



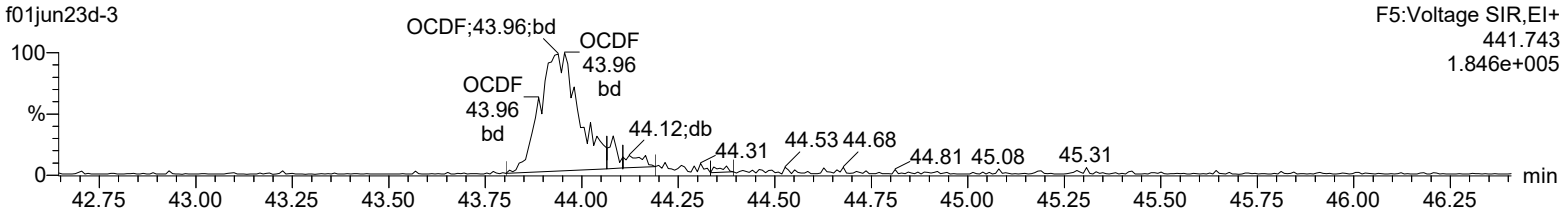
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

OCDF



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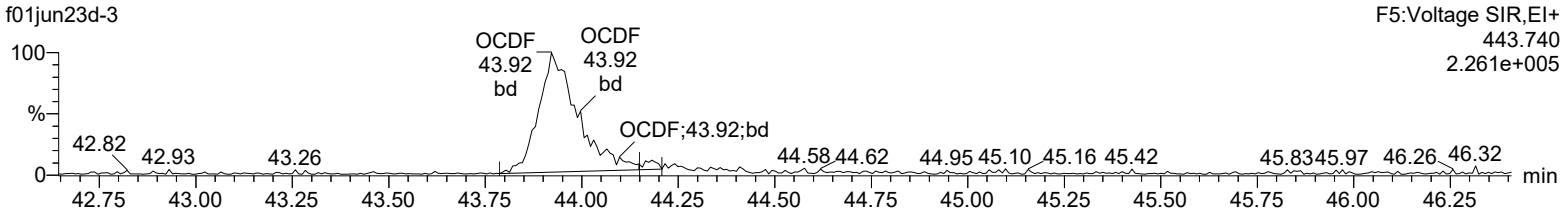

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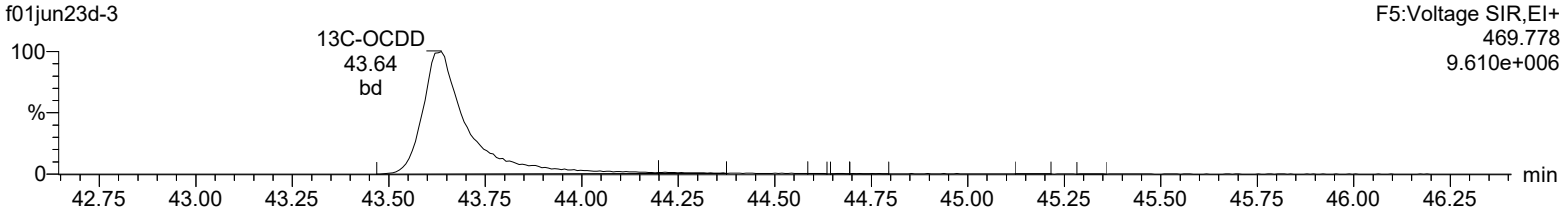

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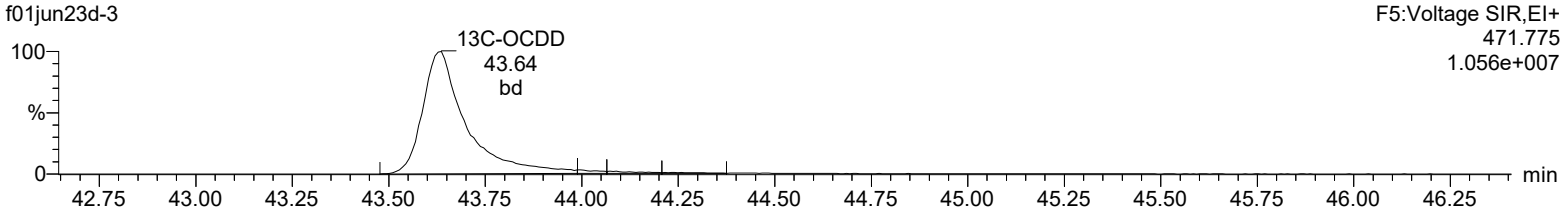
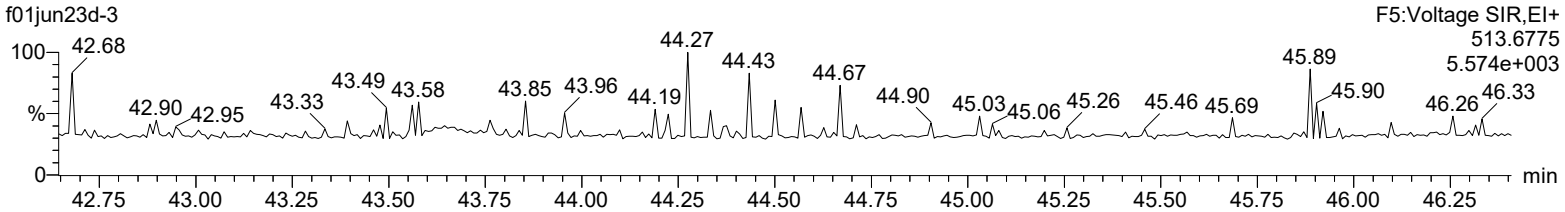
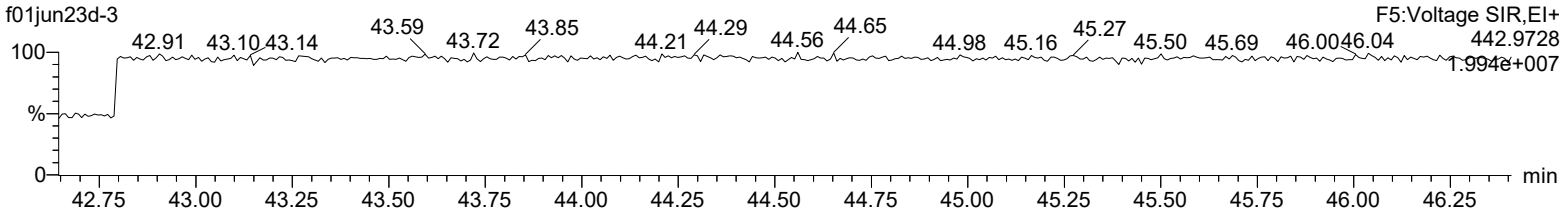


DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:30 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	6.71e3	7.85e3	1.46e4	30.83	1.001	0.86	NO	0.454	0.998	1.100	5.89	0.0262	7.91e4	2606	30.4	8.54e4	765	111.6	bb	bb
2	12378-PeCDD	3.55e4	2.08e4	5.63e4	33.86	1.000	1.71	NO	2.322	1.082	1.164	4.32	0.0408	6.03e5	4443	135.8	3.48e5	2145	162.3	bb	bd
3	123478-HxCDD	2.52e4	2.04e4	4.57e4	36.38	1.000	1.23	NO	2.495	1.070	1.073	4.27	0.0645	4.07e5	4354	93.5	3.11e5	2850	109.3	dd	bd
4	123678-HxCDD	2.83e4	2.27e4	5.11e4	36.46	1.000	1.25	NO	2.281	0.971	1.064	5.73	0.0541	4.30e5	4354	98.8	3.67e5	2850	128.9	dd	dd
5	123789-HxCDD	2.63e4	2.10e4	4.73e4	36.68	1.007	1.25	NO	2.328	0.993	1.066	6.89	0.0589	3.48e5	4354	79.9	2.85e5	2850	99.8	dd	dd
6	1234678-HpCDD	2.57e4	2.21e4	4.78e4	39.62	1.000	1.16	NO	2.359	1.159	1.228	7.21	0.104	2.82e5	4584	61.5	2.39e5	4491	53.2	bd	bb
7	OCDD	3.37e4	3.47e4	6.84e4	43.65	1.001	0.97	NO	4.717	1.044	1.107	6.02	0.266	2.82e5	8069	34.9	3.10e5	3528	87.8	MM	MM
8	2378-TCDF	1.34e4	1.51e4	2.85e4	29.91	1.001	0.88	NO	0.471	1.274	1.352	4.83	0.0500	1.16e5	4412	26.4	1.48e5	5805	25.5	bd	bb
9	12378-PeCDF	8.05e4	4.69e4	1.27e5	33.06	1.000	1.72	NO	2.260	1.151	1.274	6.94	0.0402	1.38e6	7770	177.1	8.24e5	7550	109.2	bd	bb
10	23478-PeCDF	8.20e4	5.06e4	1.33e5	33.68	1.001	1.62	NO	2.371	1.322	1.394	4.15	0.0406	1.44e6	7770	185.9	8.87e5	7550	117.4	bd	bb
11	123478-HxCDF	4.91e4	3.75e4	8.66e4	35.68	1.000	1.31	NO	2.385	1.353	1.418	4.11	0.0515	8.80e5	6656	132.3	6.38e5	6159	103.5	bd	bd
12	123678-HxCDF	6.37e4	4.74e4	1.11e5	35.78	1.000	1.34	NO	2.386	1.315	1.378	4.15	0.0481	9.61e5	6656	144.4	6.76e5	6159	109.8	dd	dd
13	234678-HxCDF	5.08e4	4.26e4	9.35e4	36.25	1.000	1.19	NO	2.406	1.368	1.422	5.96	0.0569	7.61e5	6656	114.4	6.58e5	6159	106.9	bb	dd
14	123789-HxCDF	4.35e4	3.26e4	7.60e4	37.00	1.001	1.34	NO	2.443	1.273	1.302	5.43	0.0837	5.40e5	6656	81.1	3.73e5	6159	60.6	bb	MM
15	1234678-HpCDF	5.80e4	4.90e4	1.07e5	38.41	1.000	1.18	NO	2.484	1.375	1.384	4.56	0.0545	6.76e5	5792	116.7	6.80e5	5644	120.4	bb	bb
16	1234789-HpCDF	3.81e4	3.75e4	7.56e4	40.26	1.000	1.02	NO	2.301	1.255	1.364	8.52	0.0917	4.20e5	5792	72.4	3.94e5	5644	69.8	bd	bd
17	OCDF	4.65e4	5.22e4	9.87e4	43.93	1.007	0.89	NO	4.303	1.508	1.752	16.82	0.172	3.79e5	6494	58.3	4.23e5	5395	78.4	bd	bd
18	13C-2378-TCDD	1.28e6	1.64e6	2.92e6	30.81	1.023	0.78	NO	97.987	1.116	1.139	2.81	0.140	1.28e7	9897	1291.5	1.61e7	4815	3337.1	bb	bd
19	13C-12378-PeCDD	1.29e6	7.90e5	2.08e6	33.85	1.124	1.63	NO	97.937	0.796	0.813	6.11	0.210	2.15e7	7387	2910.7	1.32e7	8366	1583.7	bd	bb
20	13C-123478-HxCDD	1.00e6	7.06e5	1.71e6	36.36	0.991	1.42	NO	97.466	0.826	0.847	3.44	0.219	1.53e7	10881	1401.6	1.21e7	8680	1399.2	bd	bd
21	13C-123678-HxCDD	1.14e6	9.66e5	2.10e6	36.44	0.993	1.18	NO	99.179	1.019	1.027	0.98	0.181	1.69e7	10881	1555.1	1.35e7	8680	1553.3	dd	dd
22	13C-1234678-HpCDD	8.66e5	7.84e5	1.65e6	39.61	1.080	1.10	NO	99.829	0.799	0.800	2.20	0.288	9.31e6	11537	807.1	8.45e6	12721	664.3	bd	bd
23	13C-OCDD	1.27e6	1.35e6	2.62e6	43.63	1.189	0.94	NO	194.356	0.634	0.653	4.31	0.418	9.55e6	13402	712.4	1.06e7	15270	691.7	bd	bd
24	13C-2378-TCDF	1.99e6	2.49e6	4.47e6	29.89	0.992	0.80	NO	98.617	1.710	1.734	1.52	0.104	1.68e7	9319	1798.0	2.06e7	7377	2799.2	bb	bd
25	13C-12378-PeCDF	2.76e6	1.66e6	4.43e6	33.06	1.098	1.66	NO	98.474	1.693	1.719	3.99	0.368	4.67e7	29968	1559.8	2.84e7	28321	1001.7	db	dd
26	13C-23478-PeCDF	2.50e6	1.51e6	4.01e6	33.66	1.117	1.65	NO	94.723	1.534	1.619	7.01	0.391	4.22e7	29968	1407.3	2.54e7	28321	895.9	bb	bb
27	13C-123478-HxCDF	8.92e5	1.67e6	2.56e6	35.67	0.972	0.54	NO	95.994	1.240	1.291	3.13	0.275	1.53e7	18604	821.3	2.92e7	18731	1556.3	bd	bd
28	13C-123678-HxCDF	1.19e6	2.19e6	3.38e6	35.77	0.975	0.55	NO	102.380	1.636	1.598	1.73	0.222	1.71e7	18604	917.1	3.13e7	18731	1672.4	dd	db
29	13C-234678-HxCDF	9.60e5	1.77e6	2.73e6	36.24	0.988	0.54	NO	98.906	1.323	1.338	1.29	0.265	1.39e7	18604	747.6	2.56e7	18731	1368.3	bd	bb
30	13C-123789-HxCDF	8.38e5	1.55e6	2.39e6	36.98	1.008	0.54	NO	97.274	1.157	1.190	2.59	0.298	1.03e7	18604	553.8	1.89e7	18731	1006.9	bb	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:30 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	9.82e5	2.13e6	3.11e6	38.40	1.047	0.46	NO	98.019	1.506	1.537	2.02	0.287	1.20e7	20024	597.9	2.51e7	26349	953.2	bd	bb
32	13C-1234789-HpCDF	7.70e5	1.64e6	2.41e6	40.25	1.097	0.47	NO	97.353	1.166	1.198	2.23	0.368	7.31e6	20024	365.2	1.56e7	26349	590.8	bd	bb
33	13C-1234-TCDD	1.17e6	1.45e6	2.62e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.160	1.03e7	9897	1041.1	1.28e7	4815	2666.6	bb	bb
34	13C-123789-HxCDD	1.15e6	9.11e5	2.07e6	36.68	0.000	1.27	NO	100.000	1.000	1.000	0.00	0.186	1.47e7	10881	1350.8	1.13e7	8680	1298.4	dd	dd
35	37Cl-2378-TCDD	1.39e4		1.39e4	30.82	1.023			0.472	1.062	1.124	6.42	0.0191	1.42e5	1983	71.6				bb	

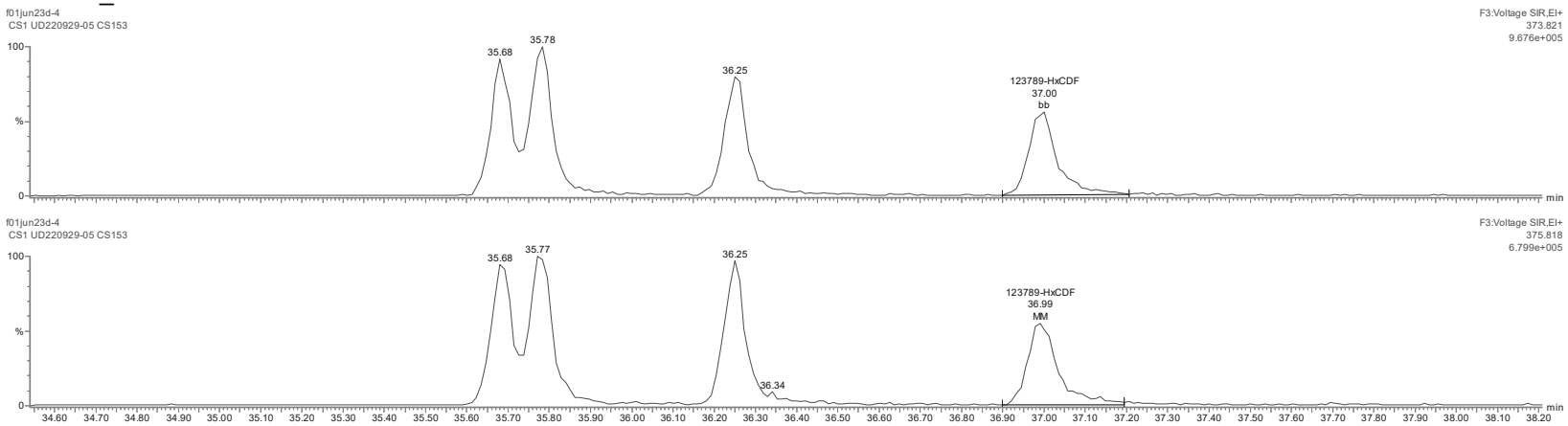
Reasons for Analyst Intervention

Name:f01jun23d-4, ID:

M	M2
7 OCDD 43.65 - AB	7 OCDD 43.65 - AB
	14 123789-HxCDF 37.00 - AB

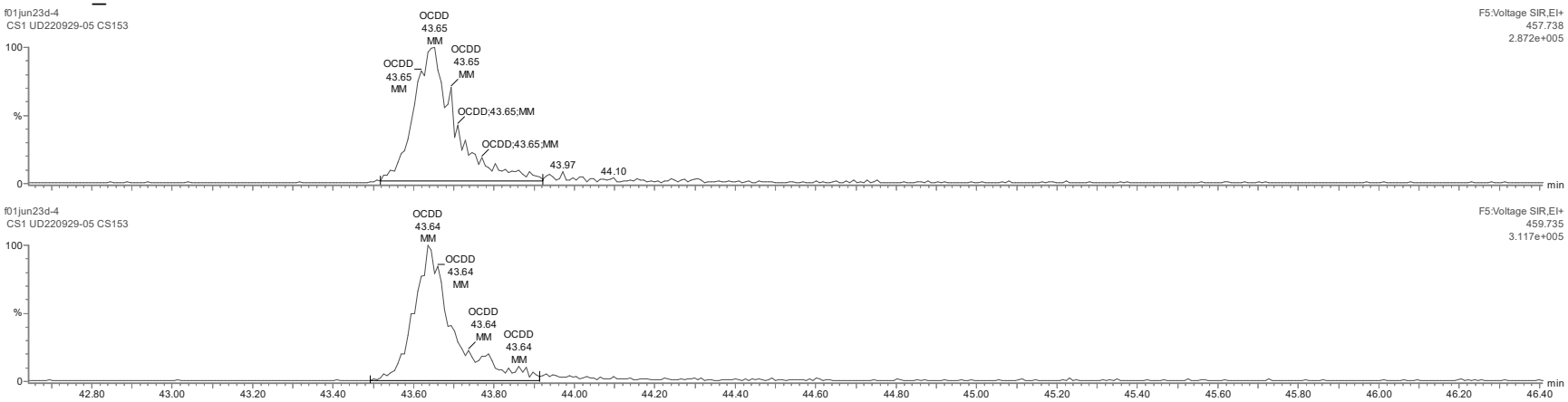
Reason Codes assigned by SM1 on 06-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/02/2023 06/06/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/05/2023 06/06/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

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Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

06/06/2023

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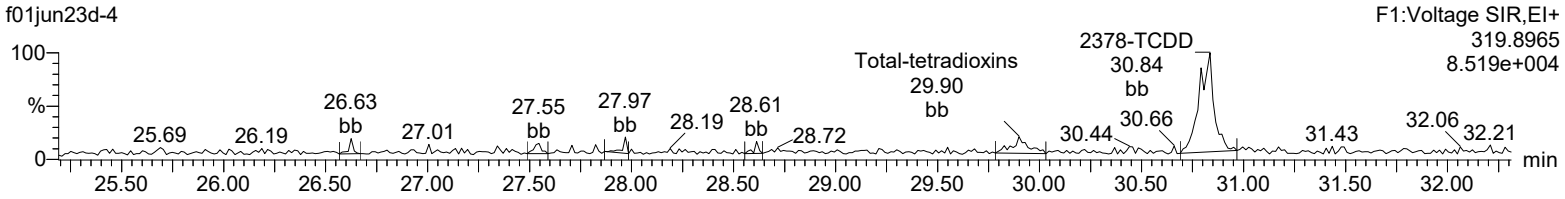
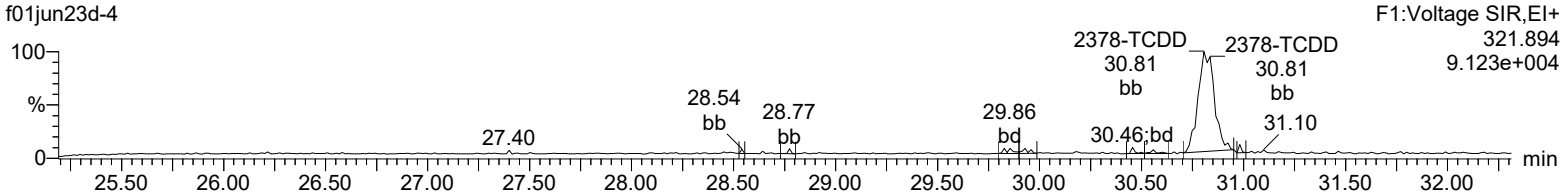
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

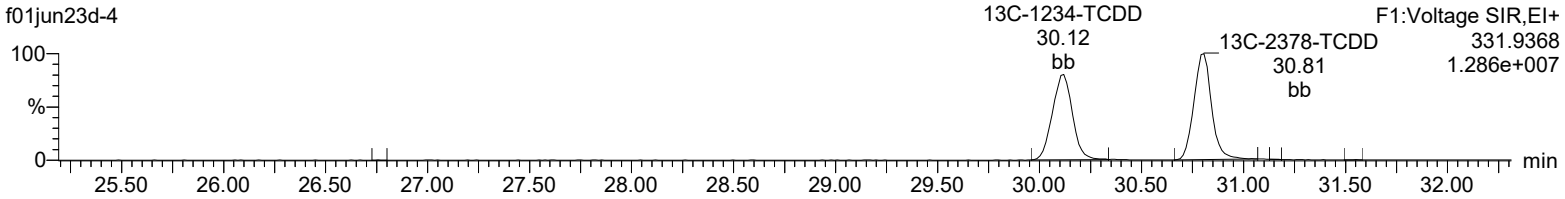
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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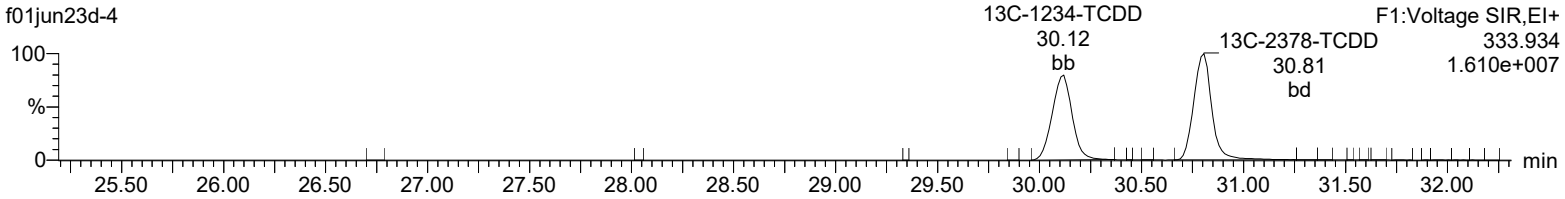
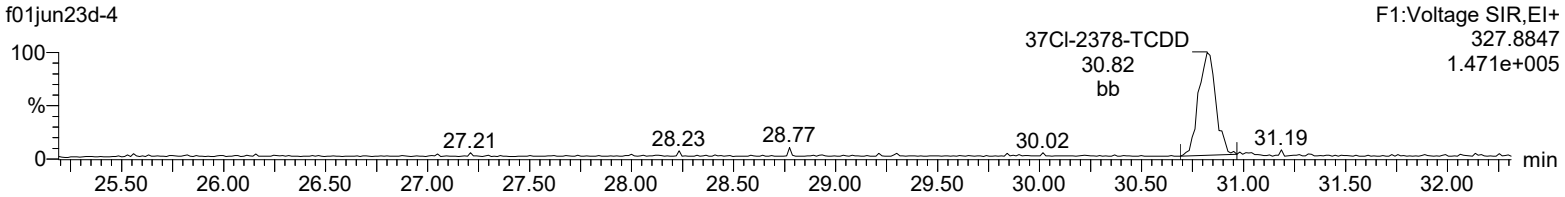
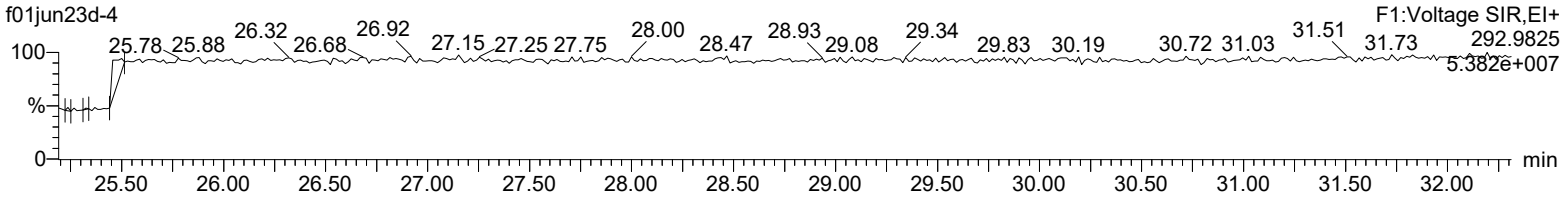


37Cl-2378-TCDD



Lock Mass F1



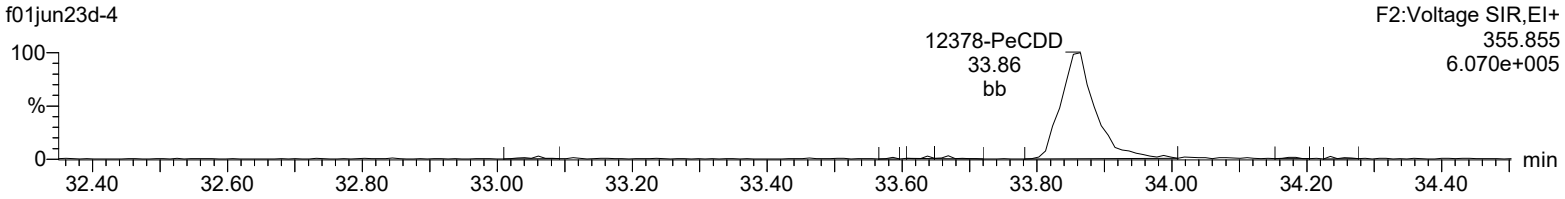
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

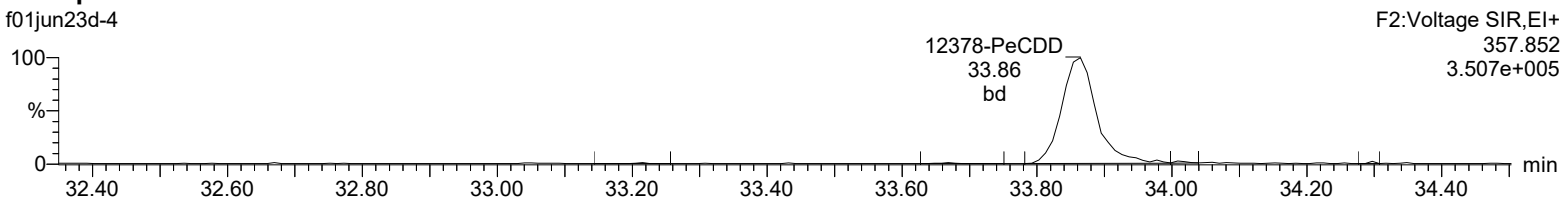
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

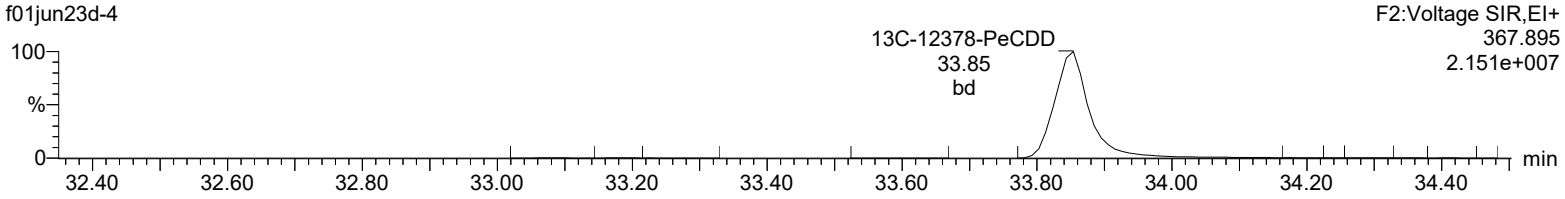
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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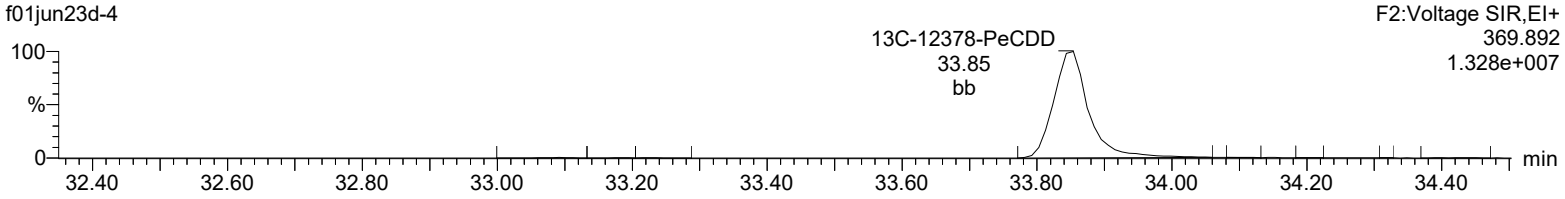
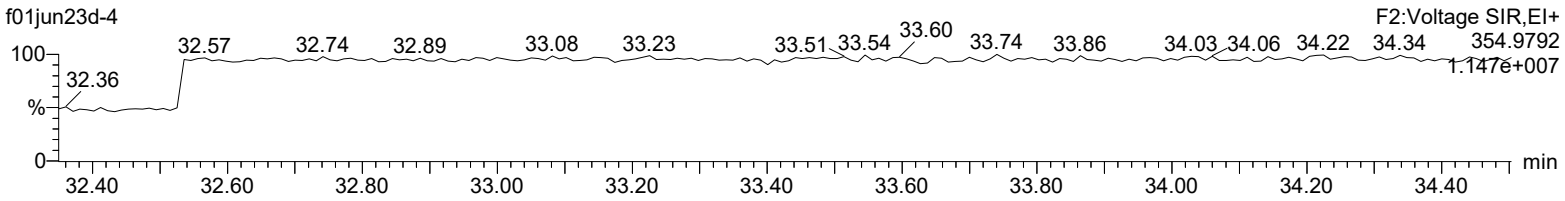


Lock Mass F2



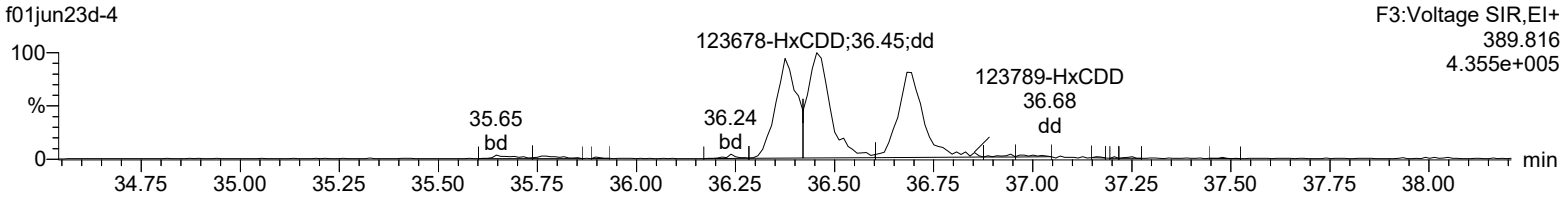
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

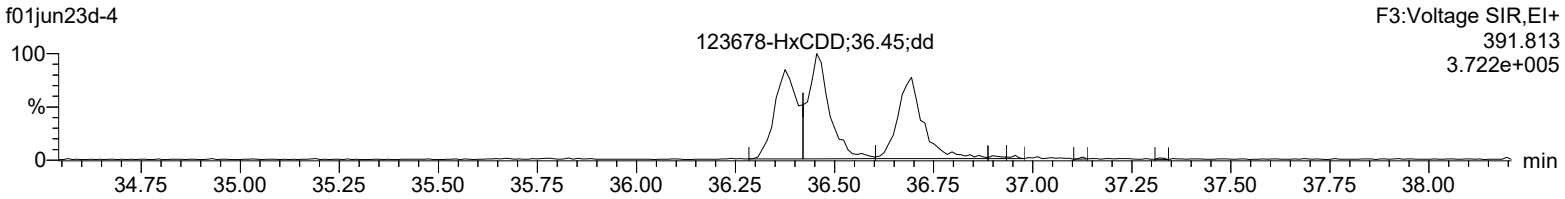
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

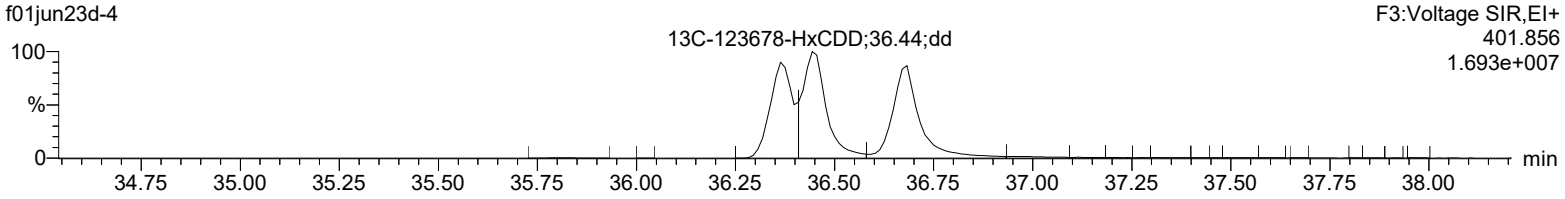
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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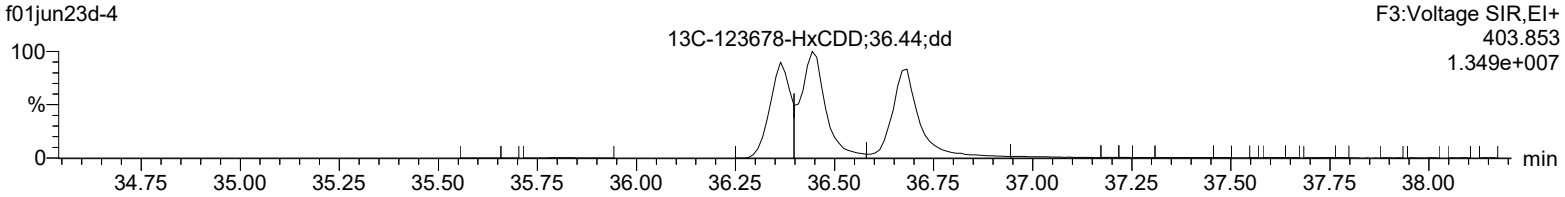
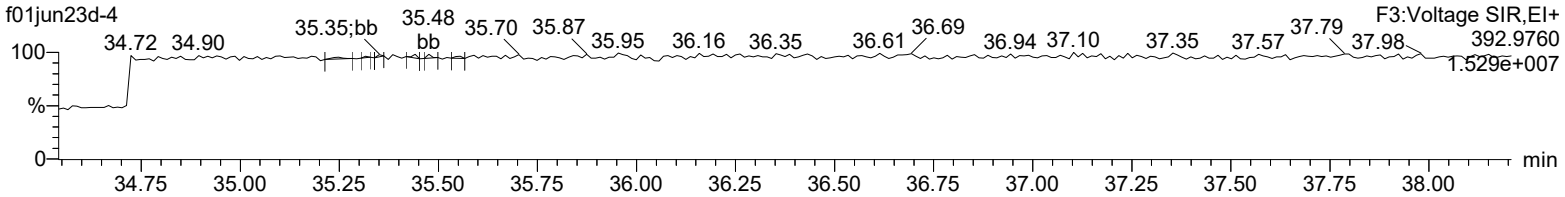


Lock Mass F3



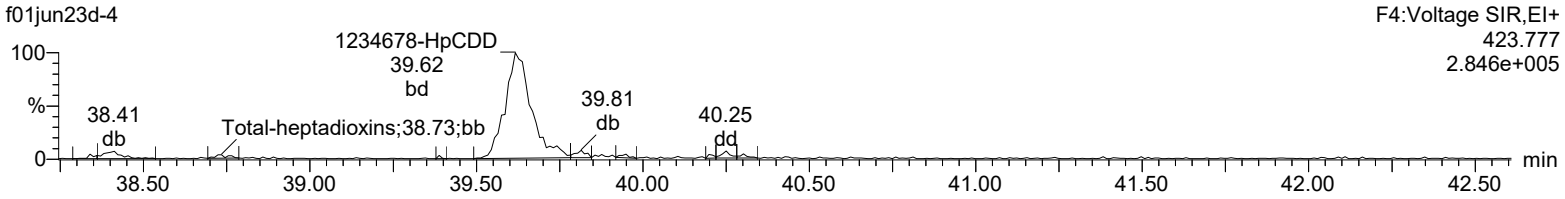
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

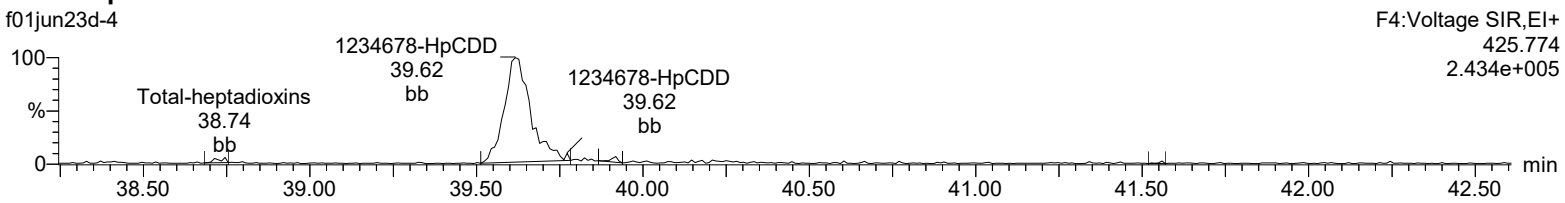
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

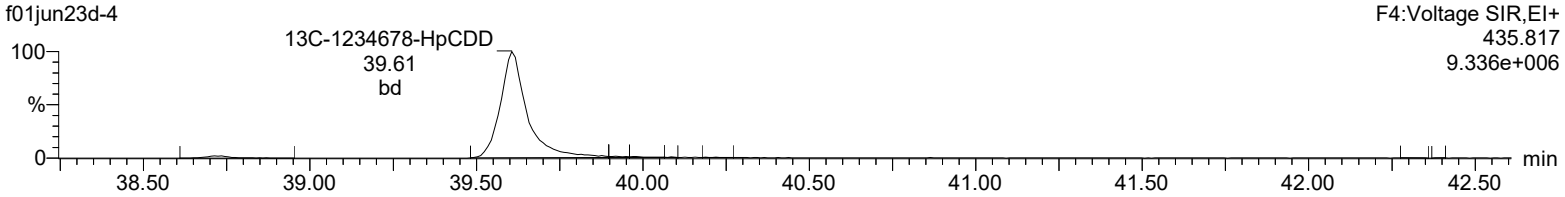
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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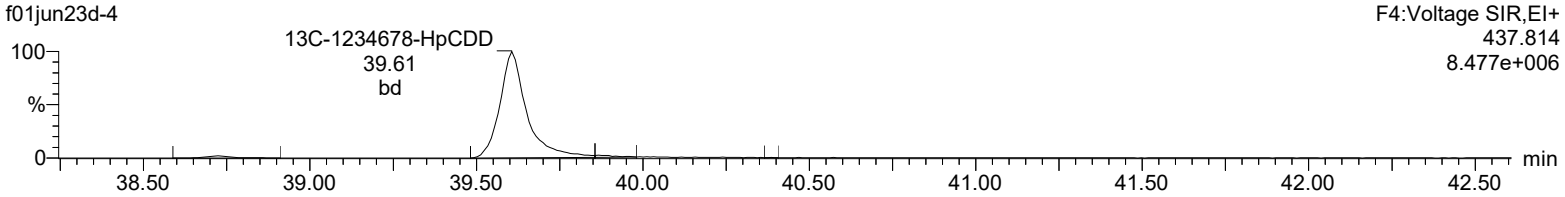
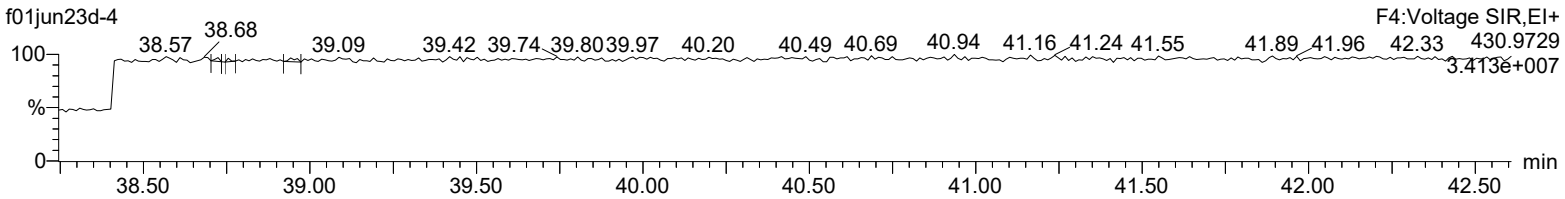


Lock Mass F4



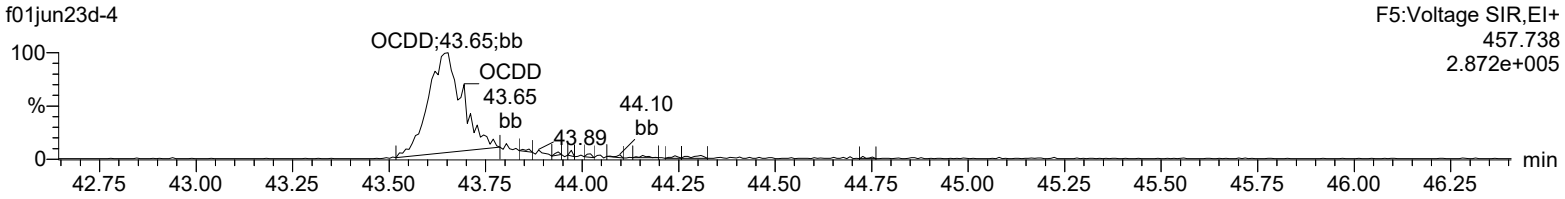
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

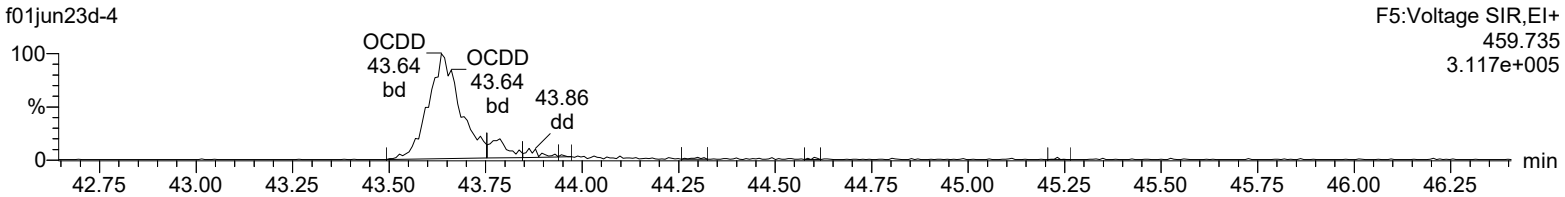
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

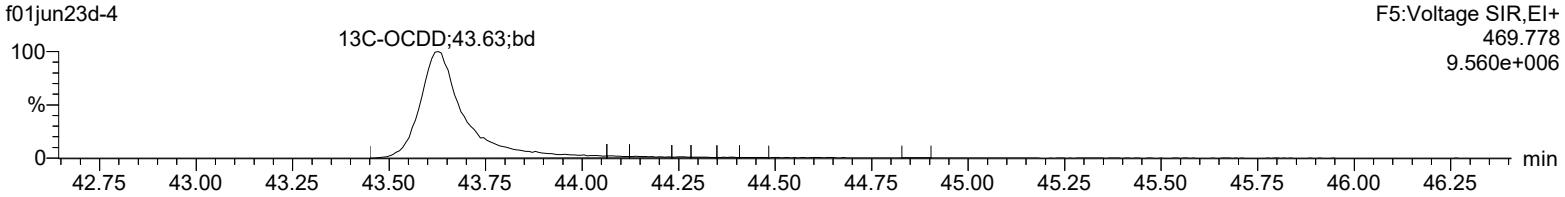
OCDD



OCDD



13C-OCDD



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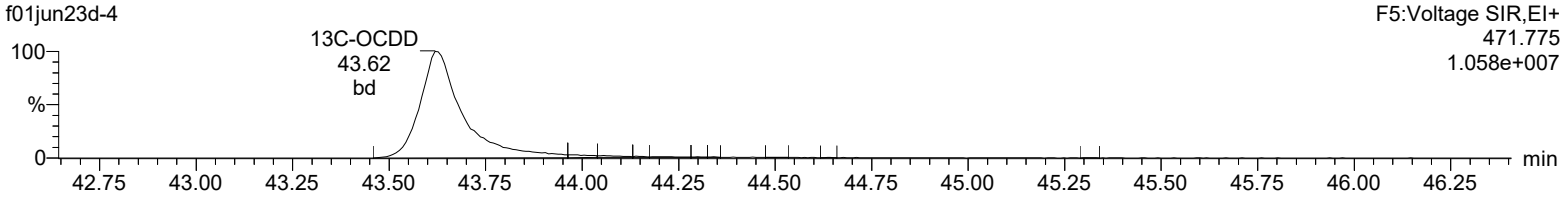
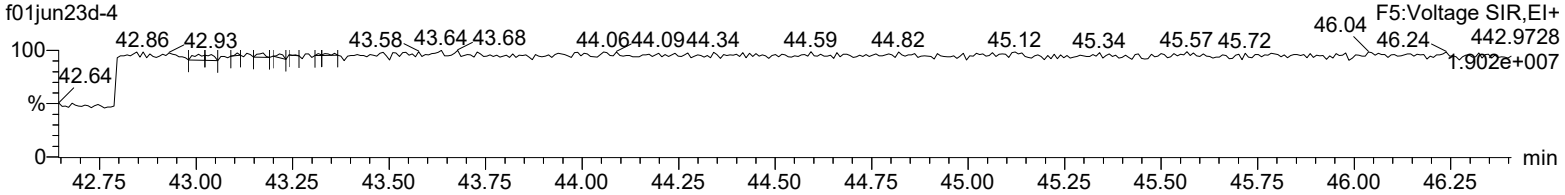


Lock Mass F5



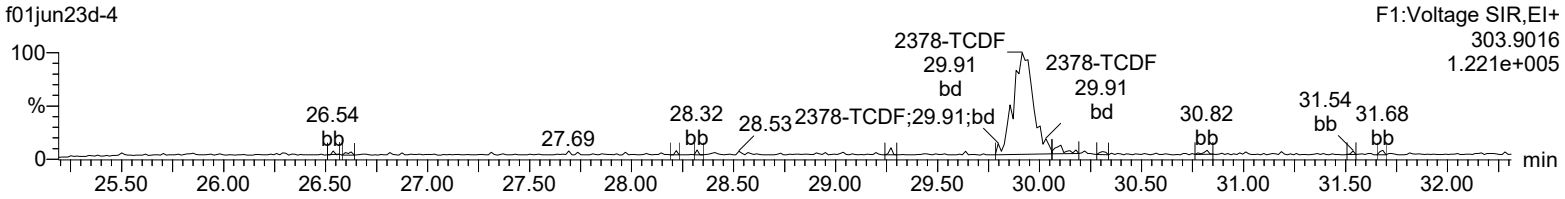
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

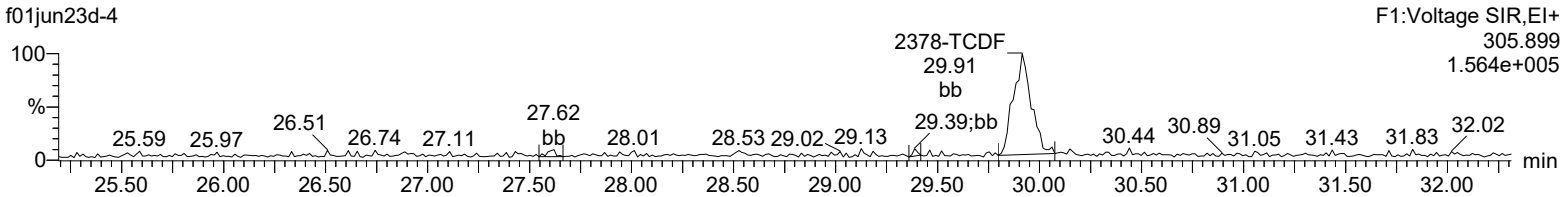
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

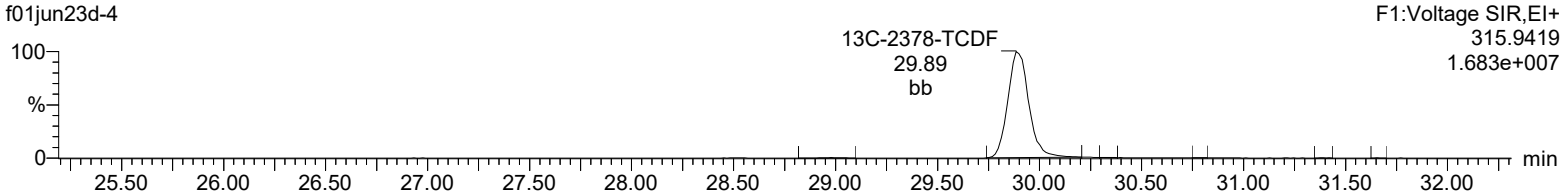
Total-tetrafurans



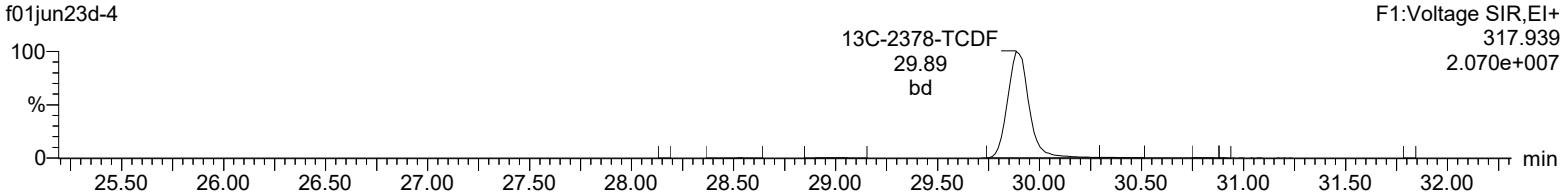
Total-tetrafurans



13C-2378-TCDF



13C-2378-TCDF



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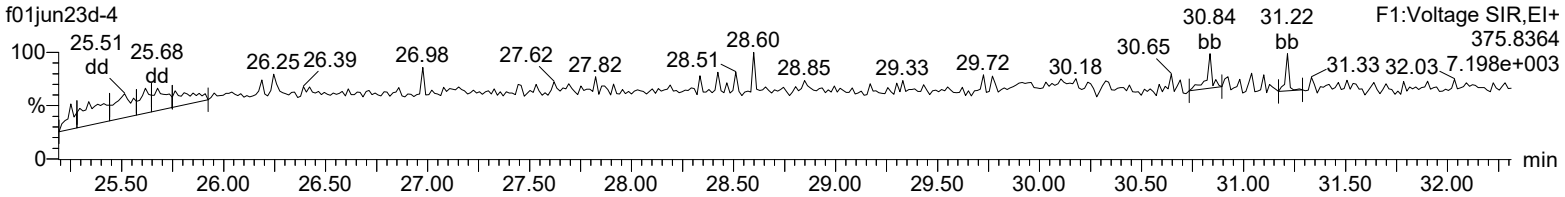
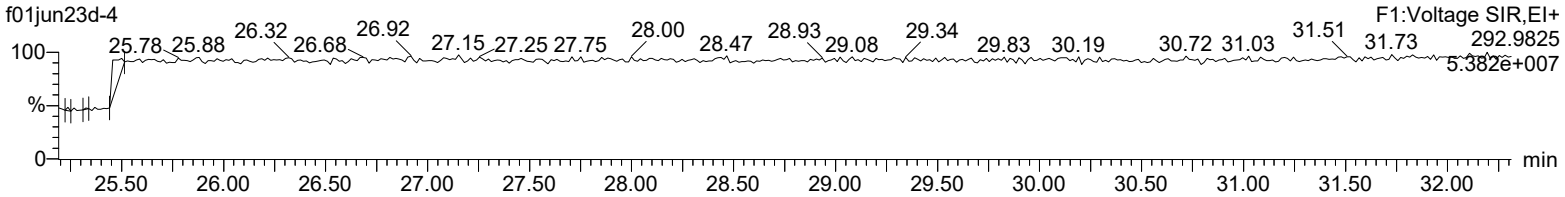


Lock Mass F1



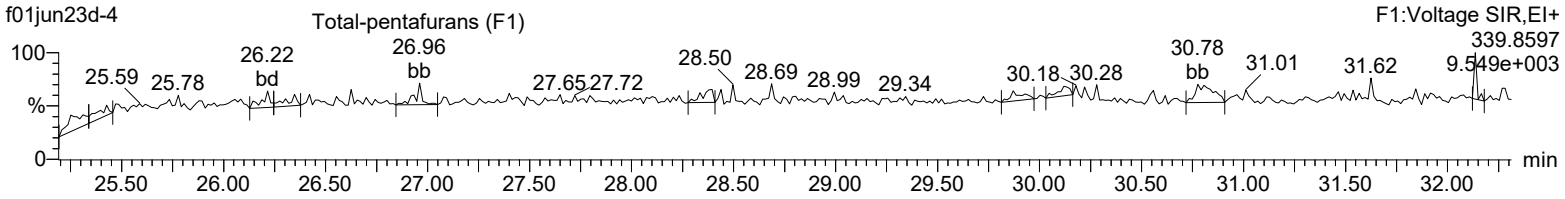
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

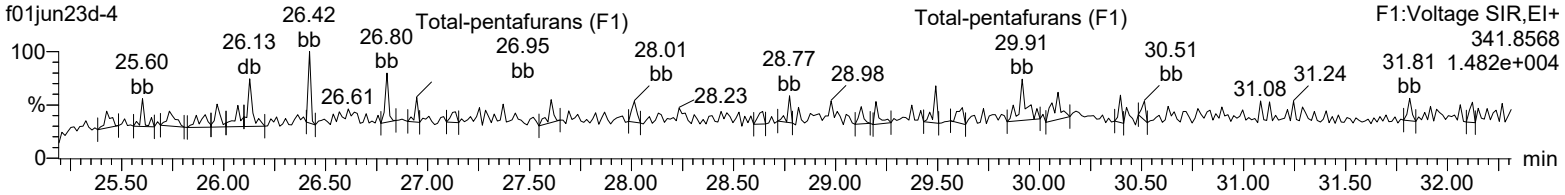
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

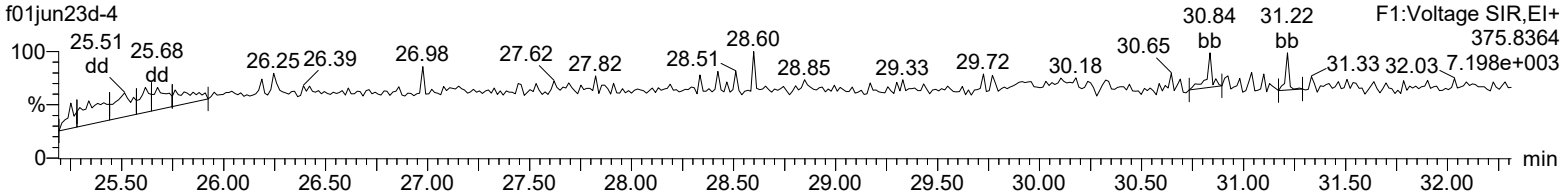
Total-pentafurans (F1)



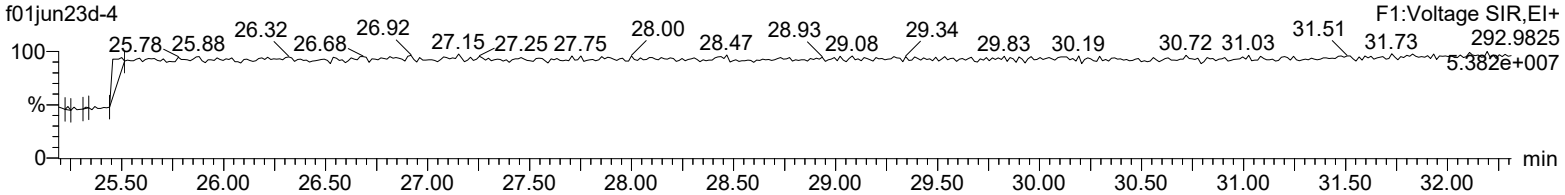
Total-pentafurans (F1)



HxDPE



Lock Mass F1



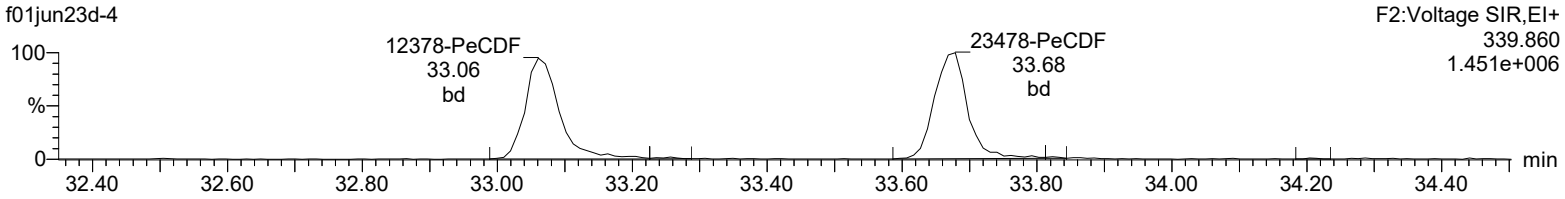
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

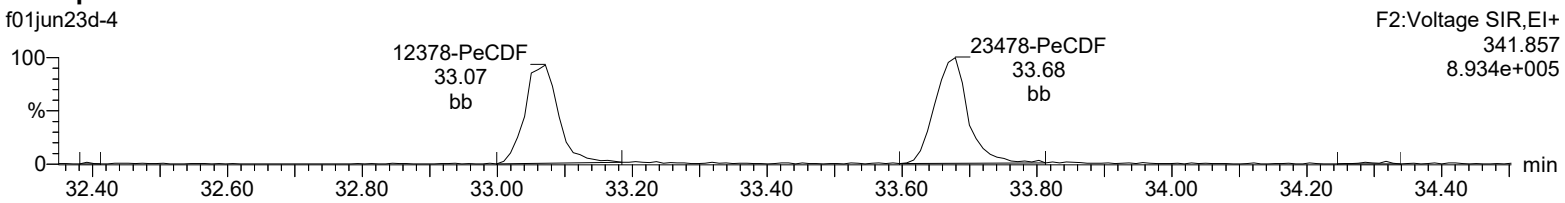
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

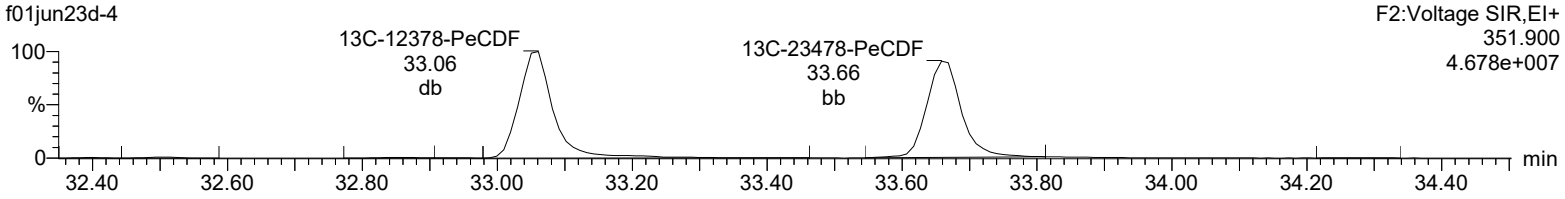
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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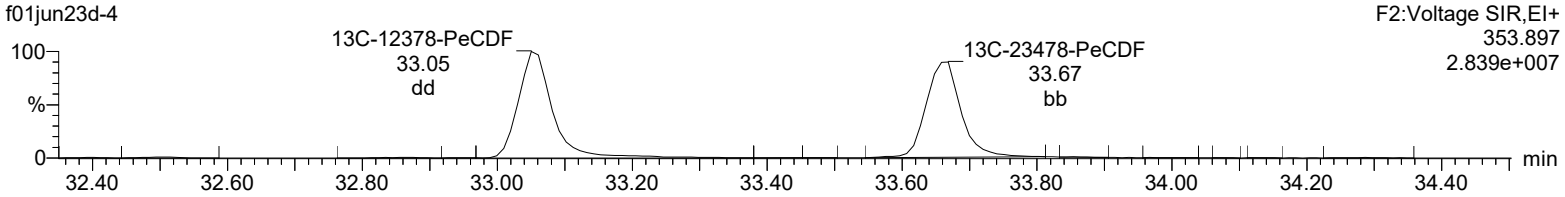

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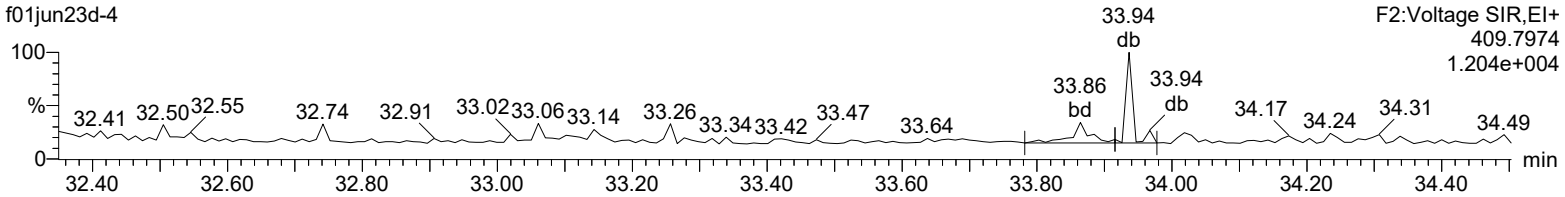
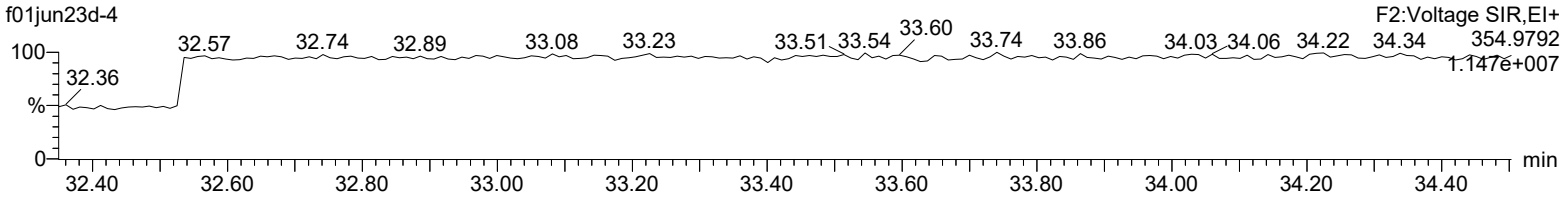


Lock Mass F2



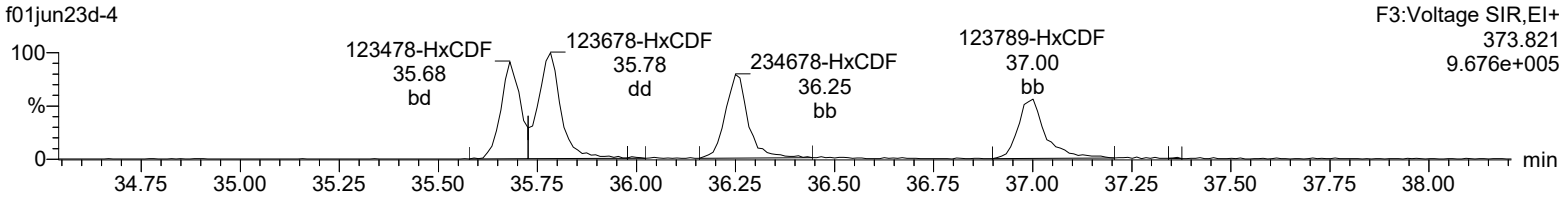
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

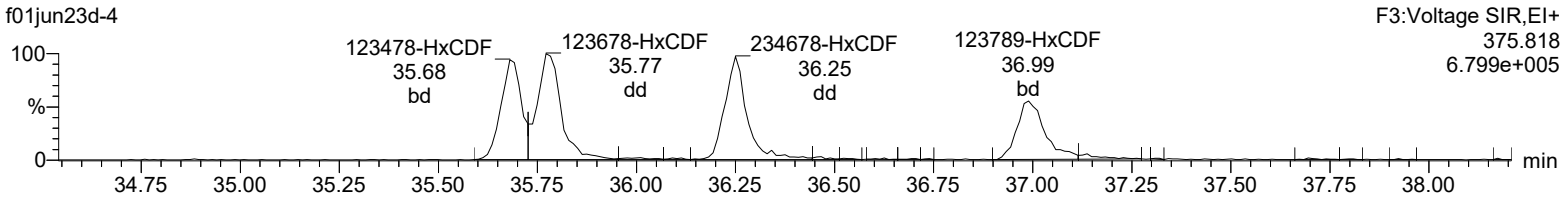
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

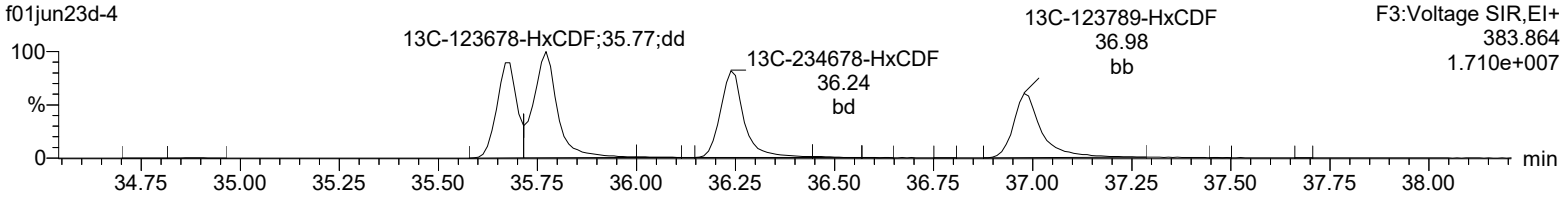
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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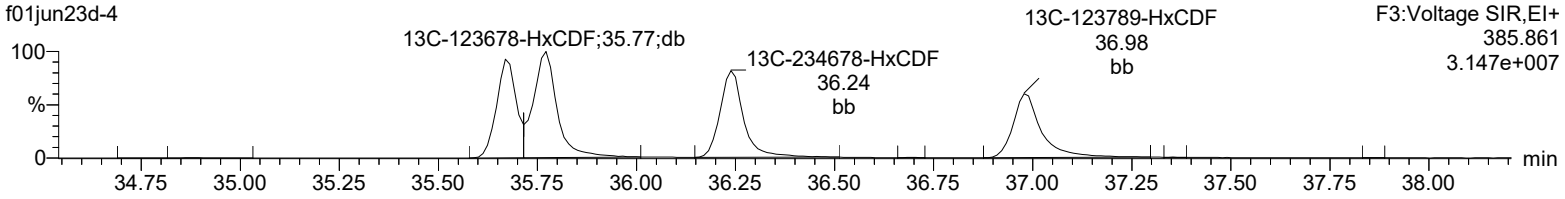

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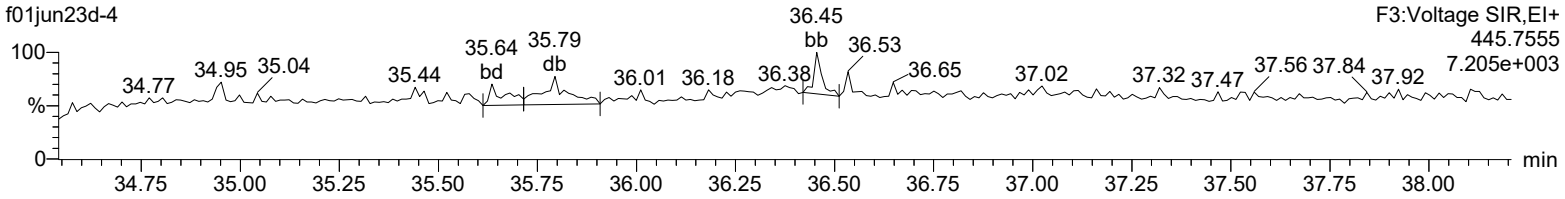
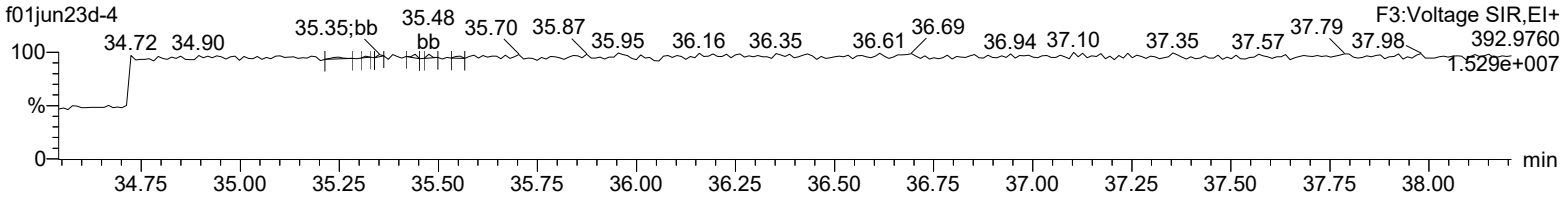


Lock Mass F3



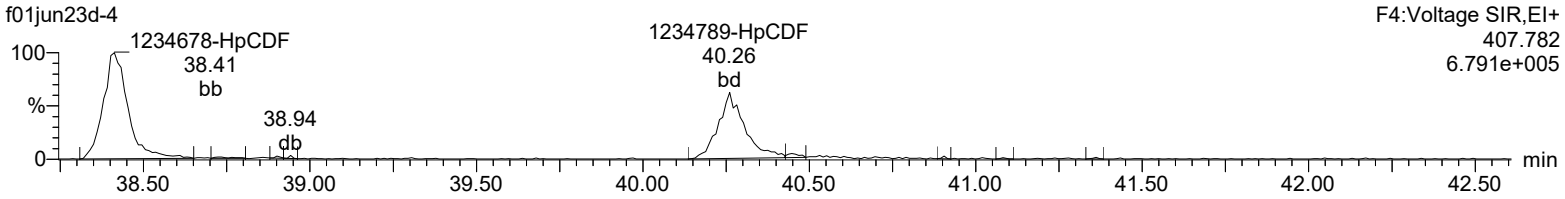
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

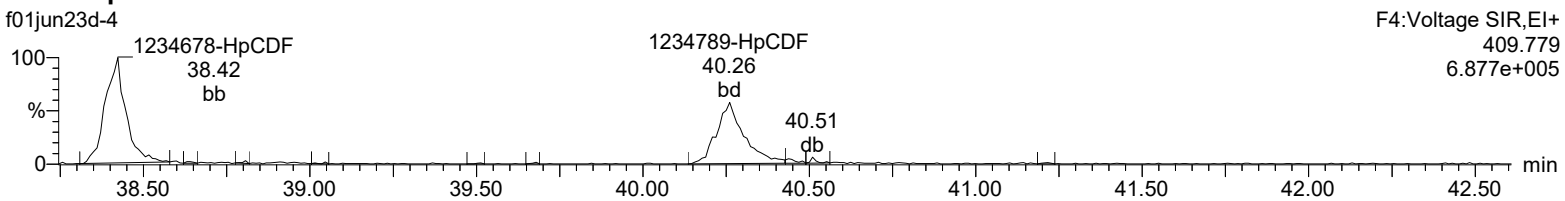
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

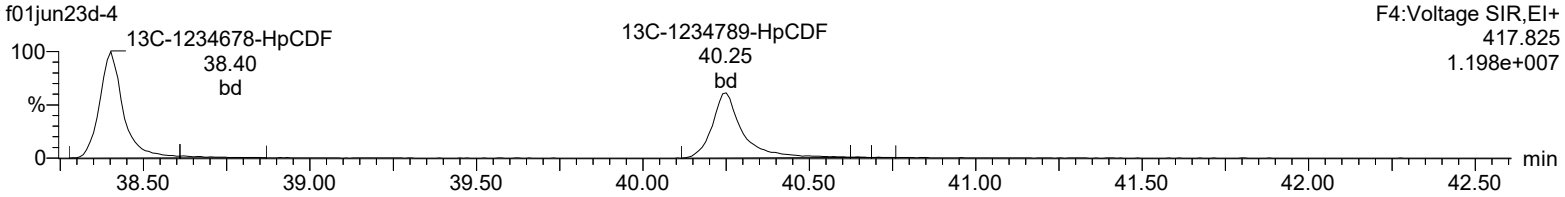
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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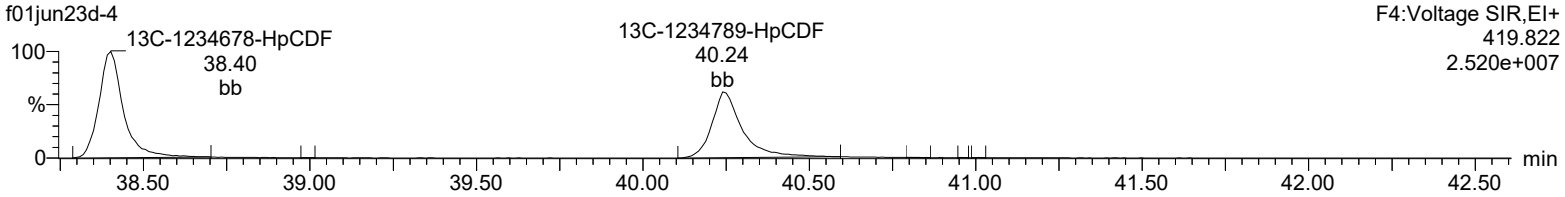

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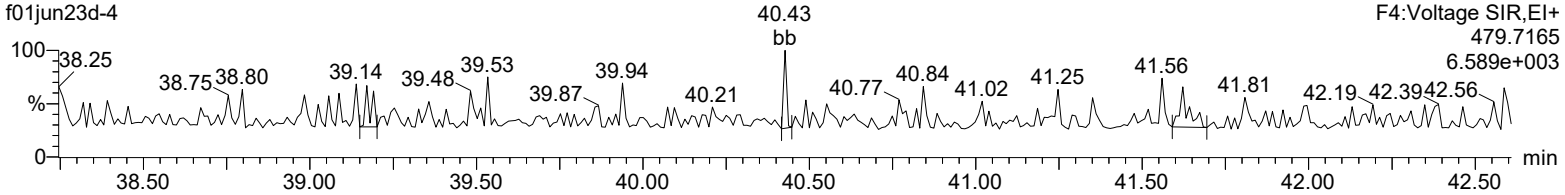
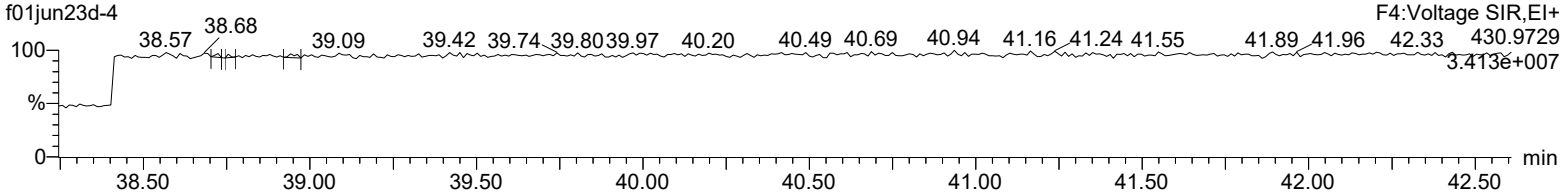


Lock Mass F4



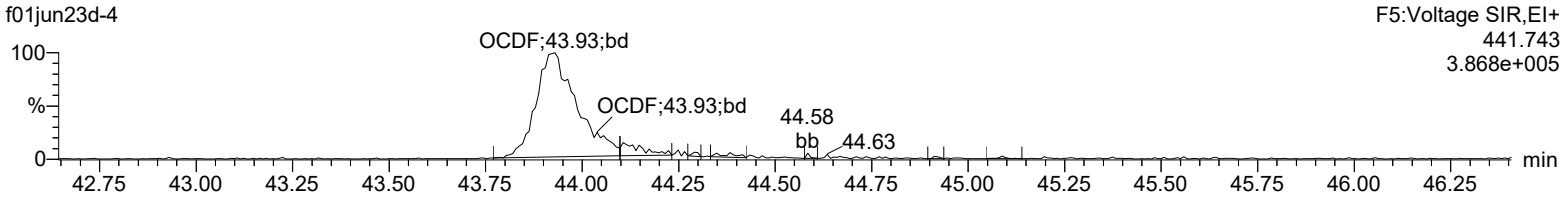
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

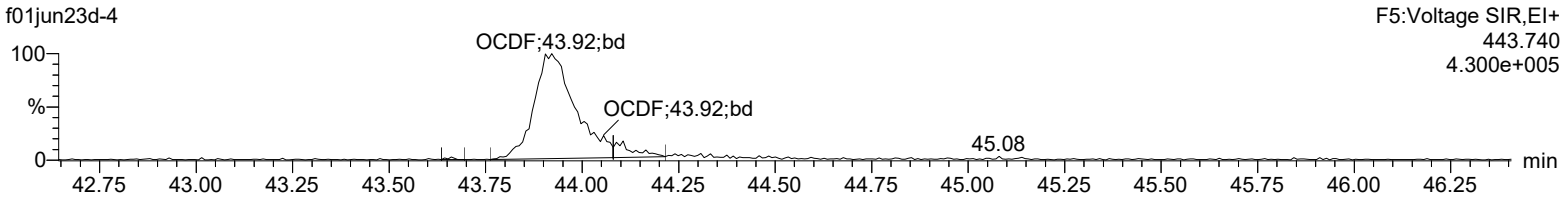
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

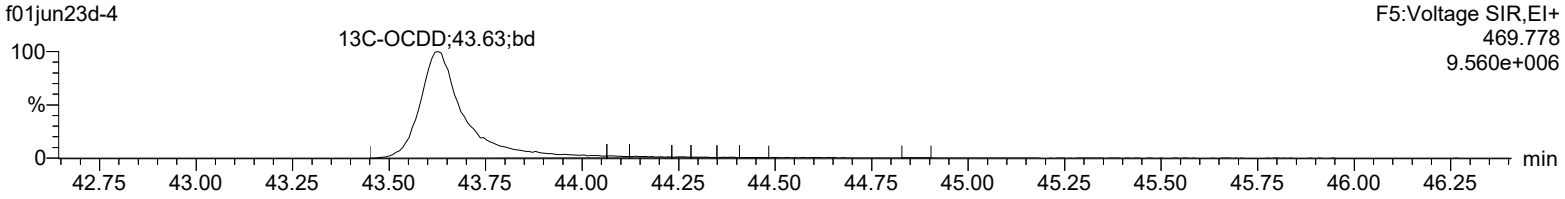
OCDF



OCDF



13C-OCDD



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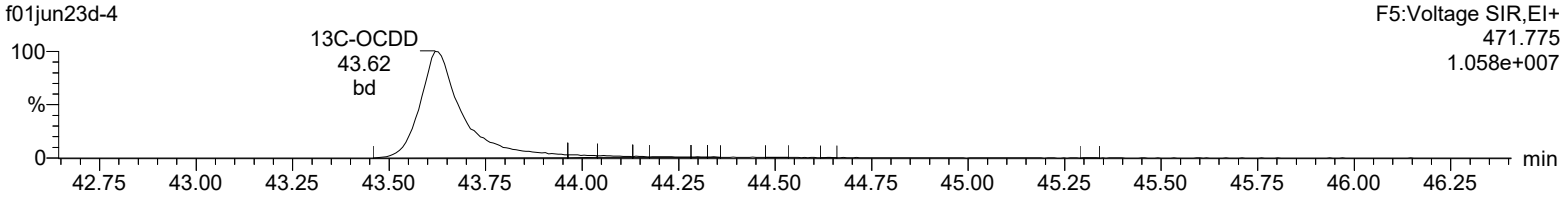

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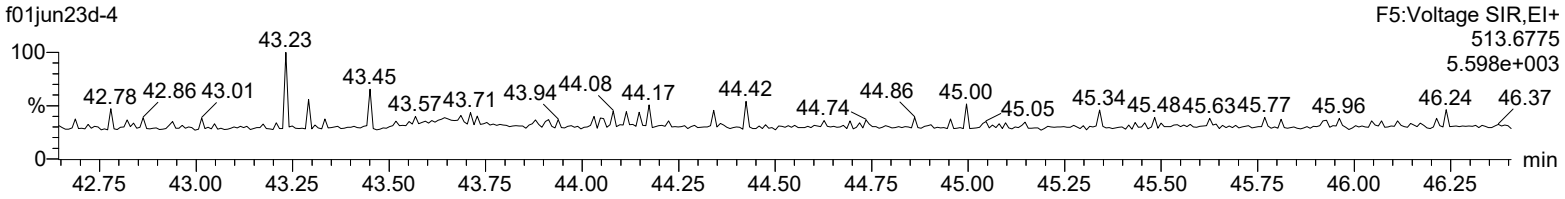
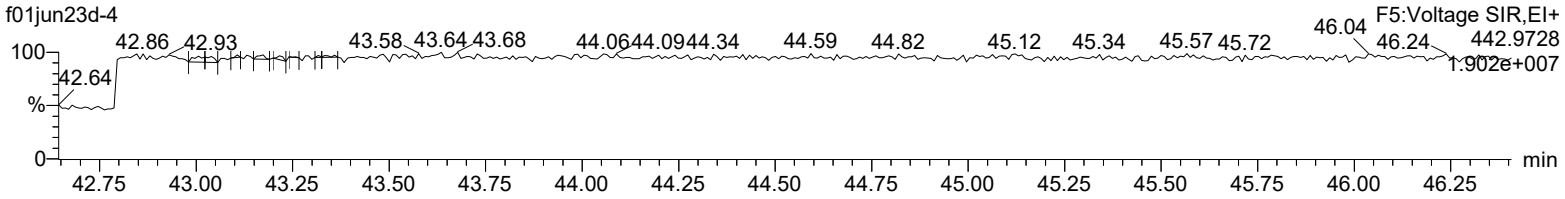


Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:48:57 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	2.88e4	3.46e4	6.34e4	30.82	1.000	0.83	NO	1.906	1.048	1.100	5.89	0.0158	3.09e5	1575	196.4	3.81e5	273	1395.9	bb	bb
2	12378-PeCDD	1.54e5	9.14e4	2.46e5	33.86	1.000	1.69	NO	9.849	1.147	1.164	4.32	0.0676	2.89e6	6232	463.3	1.68e6	3397	495.1	bd	bb
3	123478-HxCDD	1.08e5	8.34e4	1.92e5	36.38	1.000	1.30	NO	9.895	1.061	1.073	4.27	0.101	1.83e6	6176	296.4	1.39e6	4443	313.9	dd	bd
4	123678-HxCDD	1.30e5	1.01e5	2.31e5	36.47	1.000	1.28	NO	9.905	1.054	1.064	5.73	0.0925	1.92e6	6176	311.1	1.55e6	4443	349.6	dd	dd
5	123789-HxCDD	1.23e5	9.15e4	2.14e5	36.69	1.007	1.34	NO	10.059	1.073	1.066	6.89	0.0966	1.68e6	6176	272.1	1.26e6	4443	283.2	dd	dd
6	1234678-HpCDD	1.16e5	1.00e5	2.16e5	39.63	1.000	1.16	NO	9.927	1.219	1.228	7.21	0.179	1.22e6	7696	159.1	1.12e6	6203	180.3	bd	bb
7	OCDD	1.44e5	1.56e5	3.00e5	43.64	1.000	0.93	NO	18.896	1.046	1.107	6.02	0.356	1.24e6	5748	215.0	1.40e6	9265	151.3	bd	bd
8	2378-TCDF	5.68e4	6.69e4	1.24e5	29.91	1.000	0.85	NO	1.995	1.349	1.352	4.83	0.0549	5.45e5	3188	171.1	6.16e5	6665	92.4	bd	bb
9	12378-PeCDF	3.55e5	2.13e5	5.67e5	33.07	1.000	1.67	NO	9.861	1.256	1.274	6.94	0.0664	6.60e6	9243	714.1	4.00e6	13388	298.8	bb	bd
10	23478-PeCDF	3.57e5	2.19e5	5.76e5	33.68	1.000	1.63	NO	9.607	1.339	1.394	4.15	0.0616	6.88e6	9243	744.6	4.07e6	13388	304.4	bd	bb
11	123478-HxCDF	2.19e5	1.70e5	3.90e5	35.69	1.000	1.29	NO	9.809	1.391	1.418	4.11	0.0944	3.77e6	10066	375.0	2.92e6	11324	257.9	bd	bd
12	123678-HxCDF	2.62e5	1.96e5	4.57e5	35.78	1.000	1.34	NO	9.599	1.323	1.378	4.15	0.0891	4.14e6	10066	411.1	3.18e6	11324	281.1	db	db
13	234678-HxCDF	2.21e5	1.67e5	3.88e5	36.25	1.000	1.33	NO	9.457	1.345	1.422	5.96	0.102	3.67e6	10066	364.3	2.73e6	11324	241.3	bb	bb
14	123789-HxCDF	1.88e5	1.42e5	3.31e5	37.00	1.000	1.32	NO	9.671	1.259	1.302	5.43	0.151	2.34e6	10066	232.8	1.86e6	11324	164.0	bb	bb
15	1234678-HpCDF	2.28e5	2.20e5	4.48e5	38.42	1.000	1.04	NO	9.626	1.332	1.384	4.56	0.143	2.99e6	14106	211.8	2.89e6	12946	223.3	bb	bd
16	1234789-HpCDF	1.82e5	1.70e5	3.52e5	40.27	1.000	1.07	NO	9.862	1.345	1.364	8.52	0.230	1.92e6	14106	135.9	1.78e6	12946	137.3	bd	bd
17	OCDF	2.25e5	2.23e5	4.49e5	43.94	1.007	1.01	NO	17.840	1.563	1.752	16.82	0.287	1.86e6	8013	232.2	1.97e6	11162	176.7	bd	bd
18	13C-2378-TCDD	1.35e6	1.67e6	3.03e6	30.81	1.023	0.81	NO	100.033	1.139	1.139	2.81	0.171	1.42e7	9073	1569.7	1.77e7	6809	2598.9	bd	bb
19	13C-12378-PeCDD	1.34e6	8.02e5	2.14e6	33.85	1.124	1.67	NO	99.127	0.806	0.813	6.11	0.316	2.29e7	11132	2061.6	1.45e7	9870	1473.8	bd	bb
20	13C-123478-HxCDD	1.02e6	7.91e5	1.81e6	36.36	0.991	1.28	NO	99.444	0.843	0.847	3.44	0.213	1.65e7	8647	1907.5	1.29e7	8462	1518.8	bd	bd
21	13C-123678-HxCDD	1.22e6	9.67e5	2.19e6	36.46	0.994	1.26	NO	99.503	1.022	1.027	0.98	0.175	1.81e7	8647	2090.5	1.45e7	8462	1716.2	dd	dd
22	13C-1234678-HpCDD	9.25e5	8.49e5	1.77e6	39.61	1.080	1.09	NO	103.341	0.827	0.800	2.20	0.388	9.91e6	17042	581.5	9.00e6	12460	722.4	bd	bd
23	13C-OCDD	1.36e6	1.51e6	2.87e6	43.63	1.189	0.90	NO	205.248	0.670	0.653	4.31	0.411	1.08e7	13952	777.1	1.18e7	11501	1030.3	bd	bd
24	13C-2378-TCDF	2.05e6	2.53e6	4.59e6	29.90	0.993	0.81	NO	99.536	1.726	1.734	1.52	0.122	1.78e7	8314	2143.3	2.22e7	9017	2458.6	bb	bb
25	13C-12378-PeCDF	2.81e6	1.71e6	4.52e6	33.06	1.098	1.65	NO	98.926	1.700	1.719	3.99	0.392	4.99e7	31531	1582.9	3.04e7	23543	1291.1	bb	db
26	13C-23478-PeCDF	2.73e6	1.58e6	4.30e6	33.67	1.118	1.73	NO	100.021	1.619	1.619	7.01	0.417	5.01e7	31531	1587.7	2.99e7	23543	1271.2	bb	bb
27	13C-123478-HxCDF	9.85e5	1.82e6	2.80e6	35.68	0.973	0.54	NO	101.189	1.307	1.291	3.13	0.327	1.69e7	16190	1041.4	3.09e7	23881	1292.2	bd	bd
28	13C-123678-HxCDF	1.24e6	2.22e6	3.46e6	35.77	0.975	0.56	NO	100.909	1.613	1.598	1.73	0.264	1.87e7	16190	1154.2	3.49e7	23881	1460.1	db	db
29	13C-234678-HxCDF	9.95e5	1.89e6	2.88e6	36.25	0.988	0.53	NO	100.545	1.345	1.338	1.29	0.315	1.53e7	16190	946.4	2.82e7	23881	1182.9	bb	bd
30	13C-123789-HxCDF	9.11e5	1.71e6	2.63e6	36.99	1.008	0.53	NO	102.971	1.225	1.190	2.59	0.355	1.13e7	16190	699.3	2.12e7	23881	888.4	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:48:57 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.05e6	2.31e6	3.36e6	38.41	1.047	0.46	NO	102.001	1.568	1.537	2.02	0.283	1.28e7	17646	727.7	2.81e7	23644	1188.4	bb	bd
32	13C-1234789-HpCDF	8.22e5	1.79e6	2.62e6	40.25	1.097	0.46	NO	101.868	1.221	1.198	2.23	0.363	8.13e6	17646	460.8	1.75e7	23644	739.2	bd	bb
33	13C-1234-TCDD	1.19e6	1.47e6	2.66e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.195	1.09e7	9073	1204.6	1.36e7	6809	1998.6	bb	bb
34	13C-123789-HxCDD	1.19e6	9.54e5	2.14e6	36.68	0.000	1.25	NO	100.000	1.000	1.000	0.00	0.180	1.58e7	8647	1828.1	1.25e7	8462	1473.3	dd	dd
35	37Cl-2378-TCDD	5.64e4		5.64e4	30.83	1.024			1.888	1.061	1.124	6.42	0.0231	5.85e5	2121	276.0				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

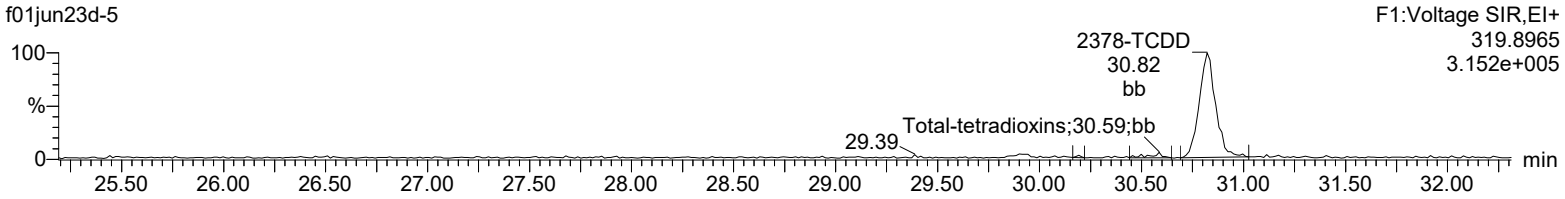
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

06/06/2023

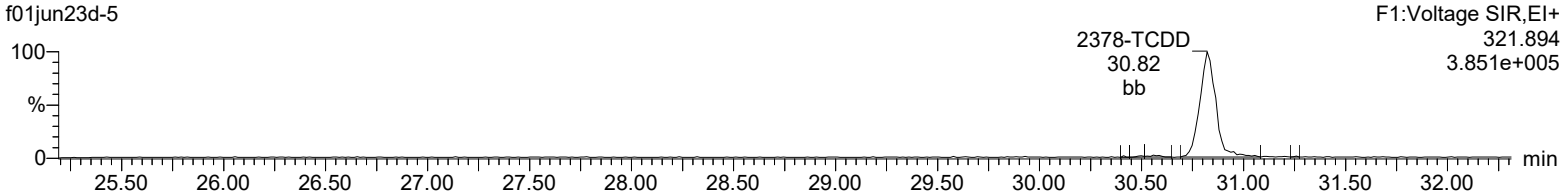
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

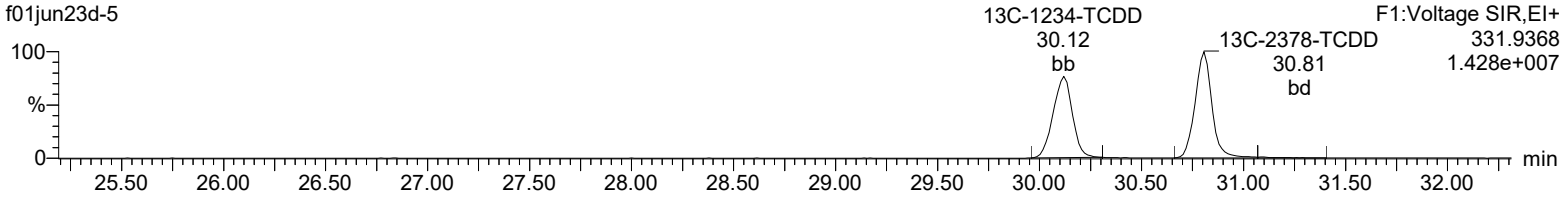
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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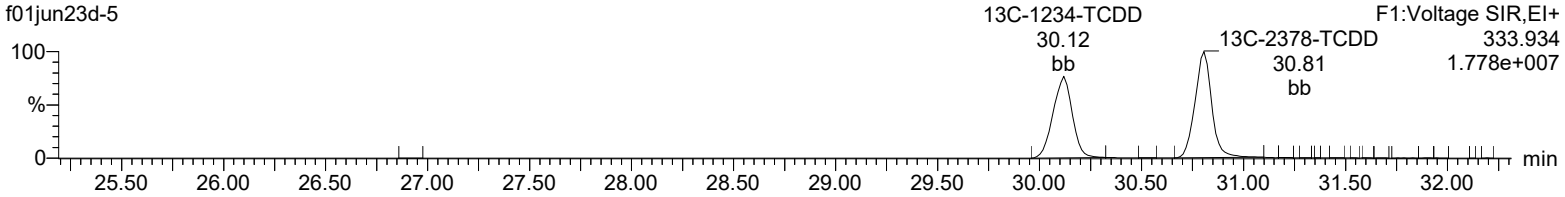

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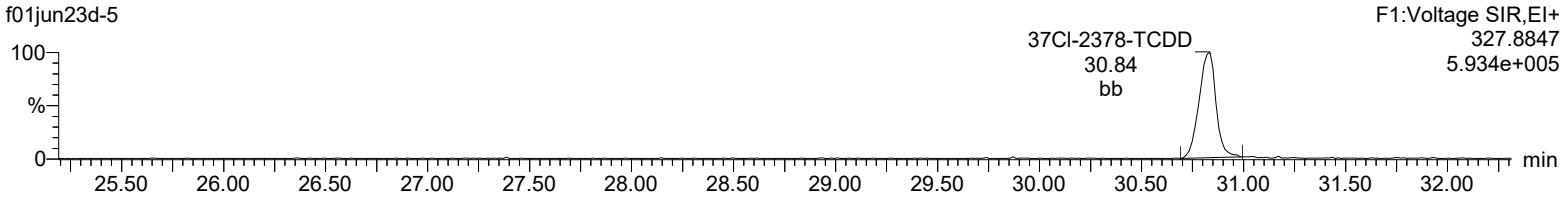
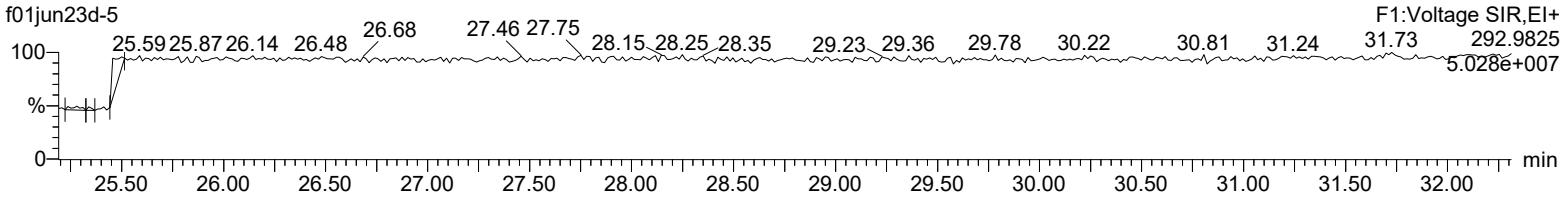


Lock Mass F1



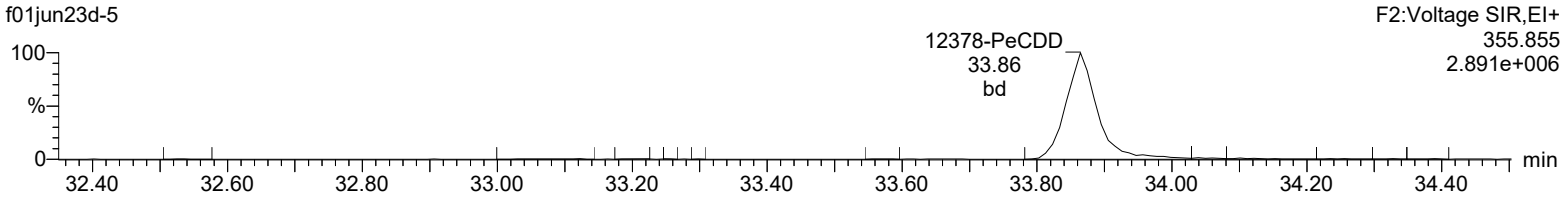
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

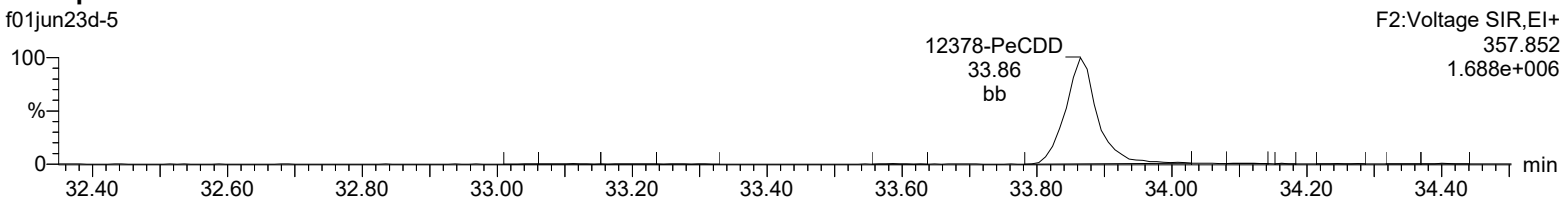
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

Total-pentadioxins



Total-pentadioxins



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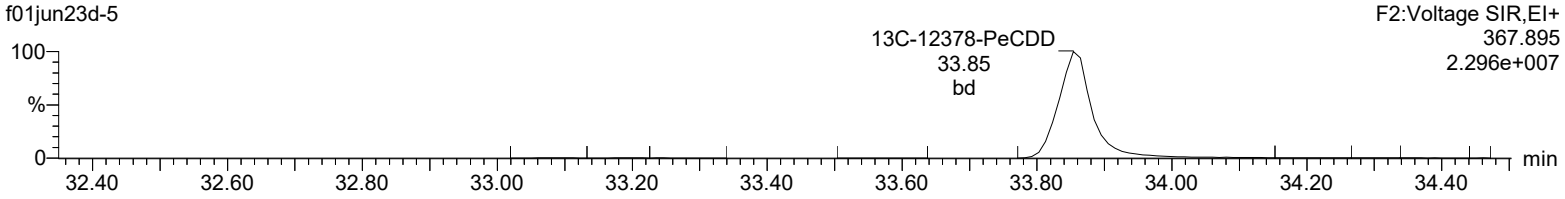

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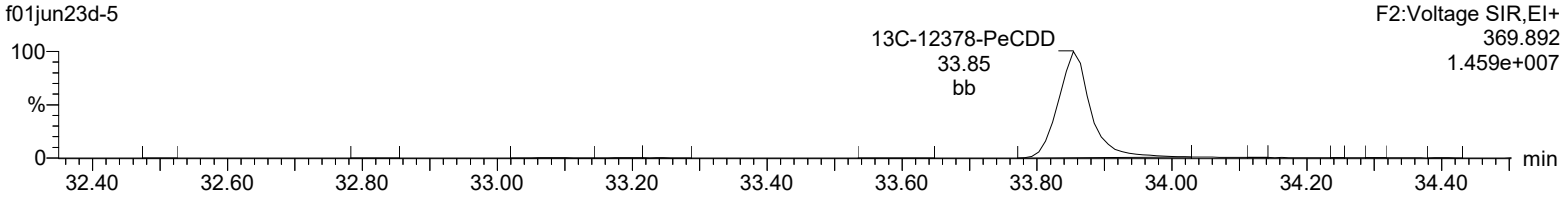
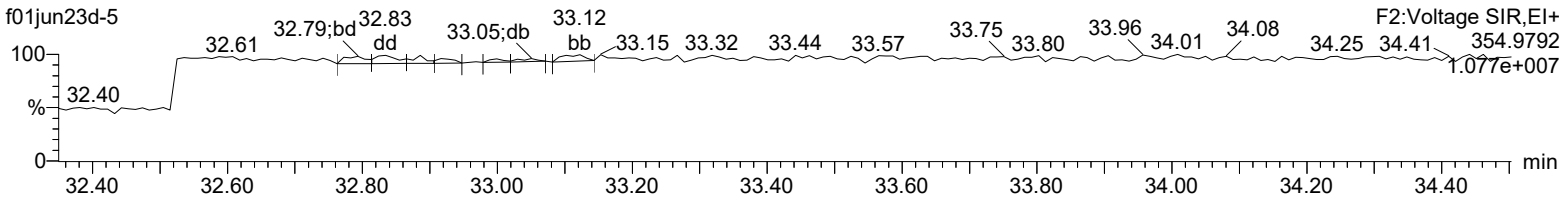


Lock Mass F2



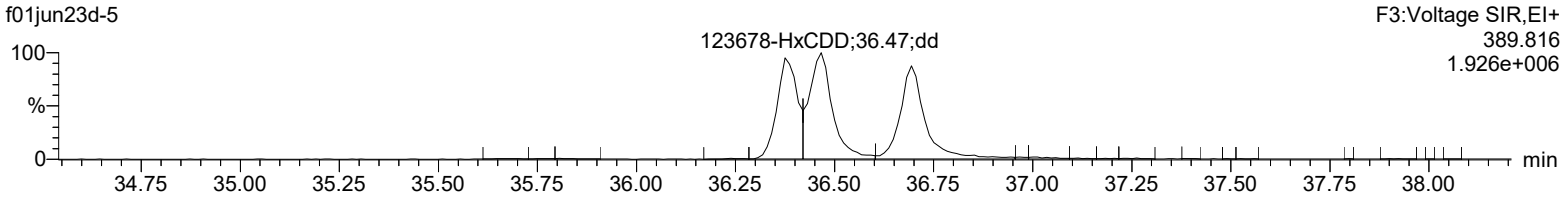
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

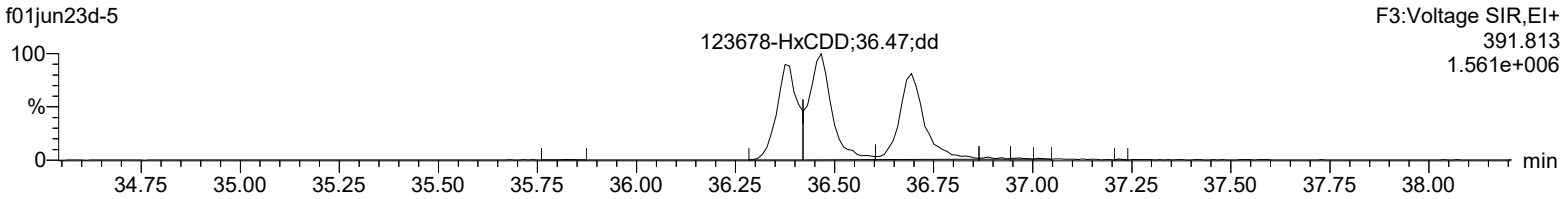
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

Total-hexadioxins



Total-hexadioxins



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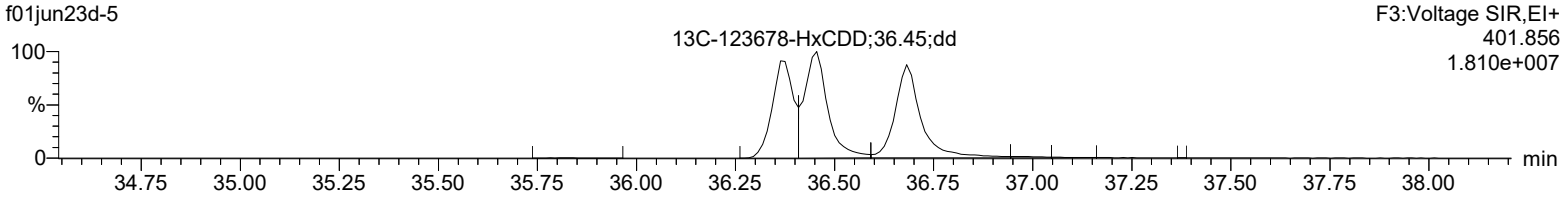

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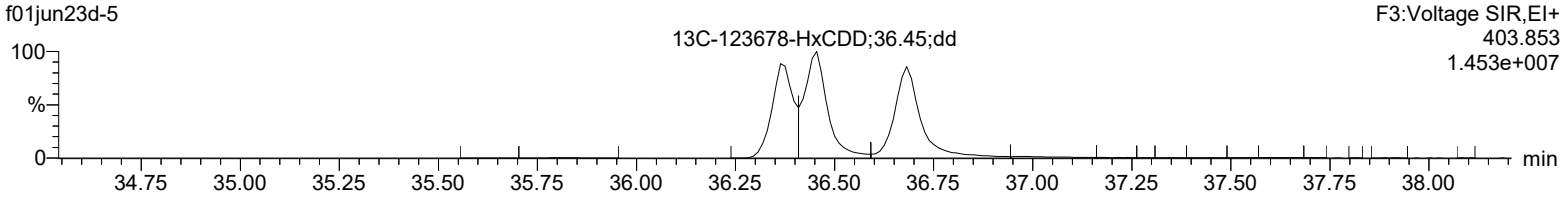
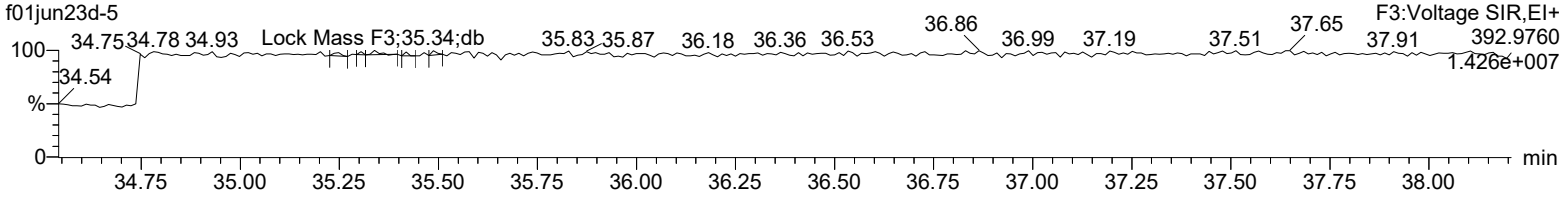


Lock Mass F3



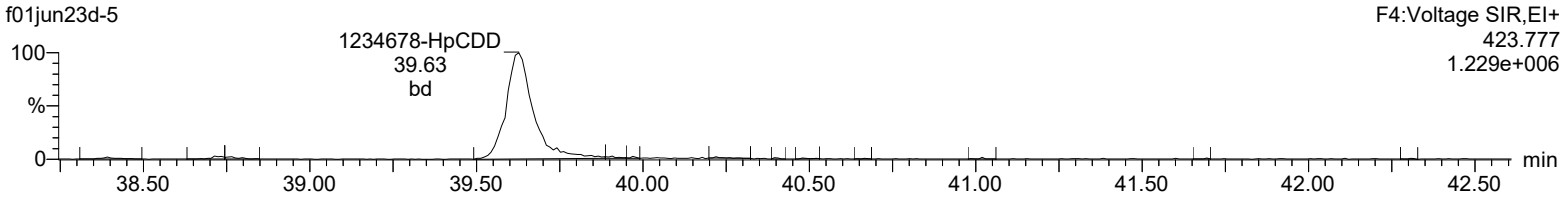
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

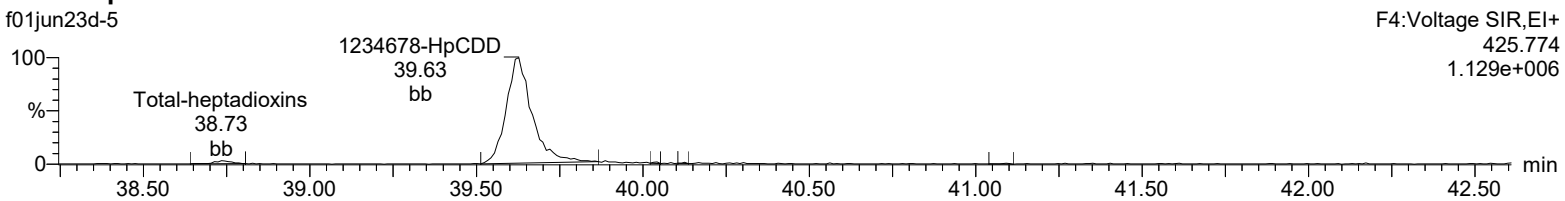
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

Total-heptadioxins



Total-heptadioxins



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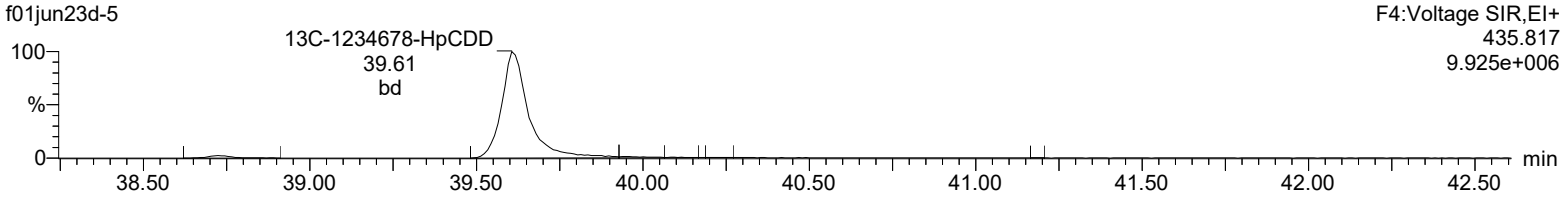
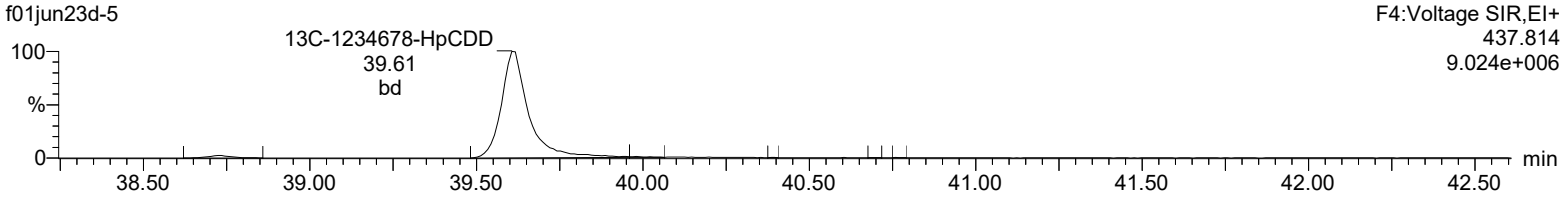
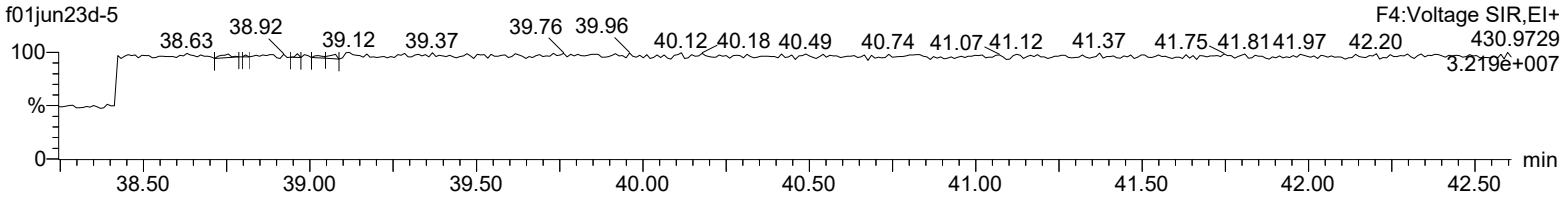


13C-1234678-HpCDD



Lock Mass F4



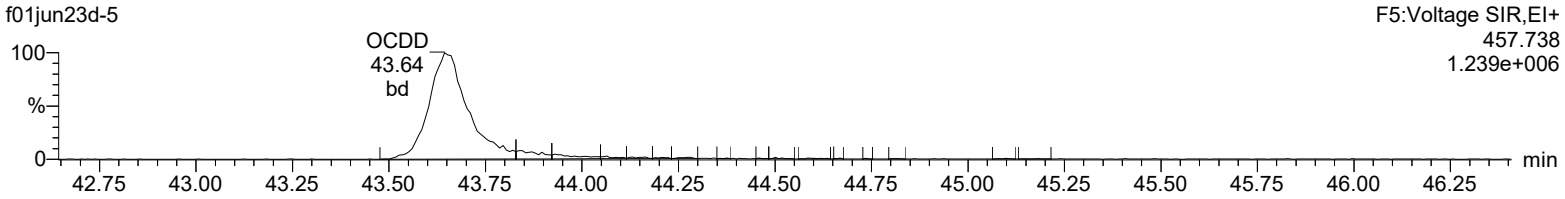
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

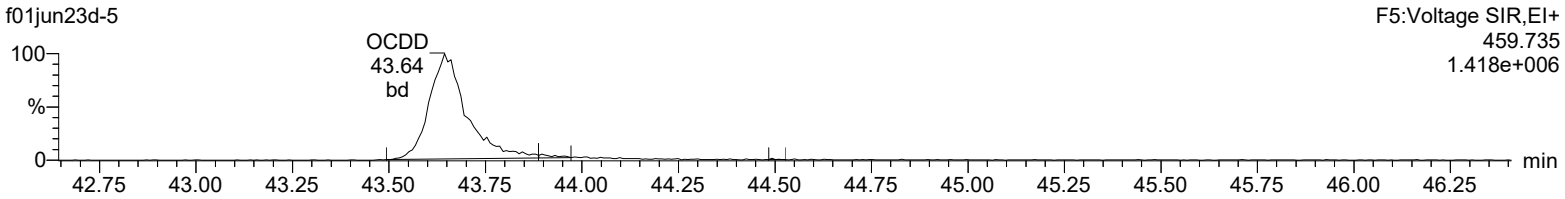
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

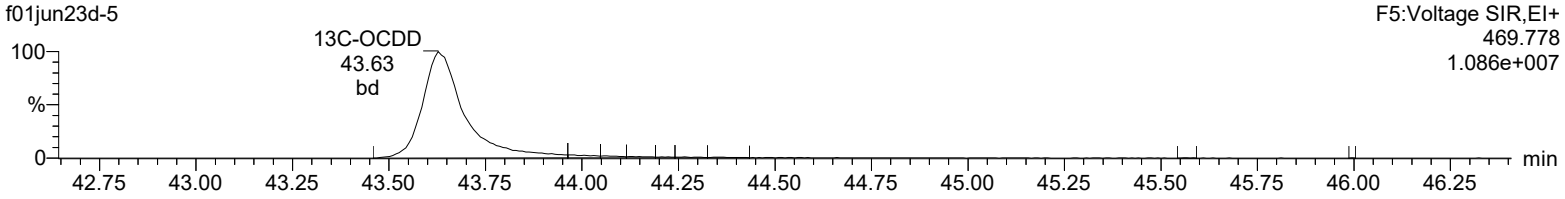
OCDD



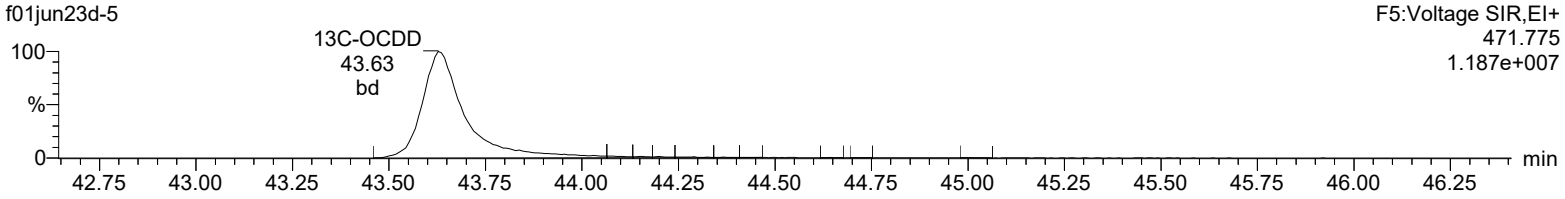
OCDD



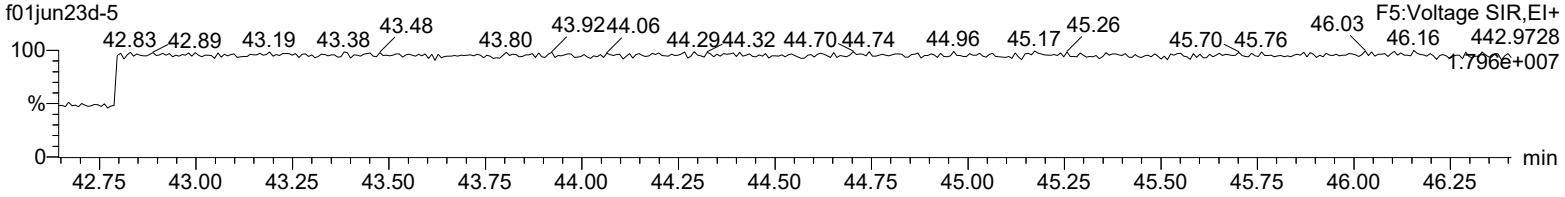
13C-OCDD



13C-OCDD



Lock Mass F5



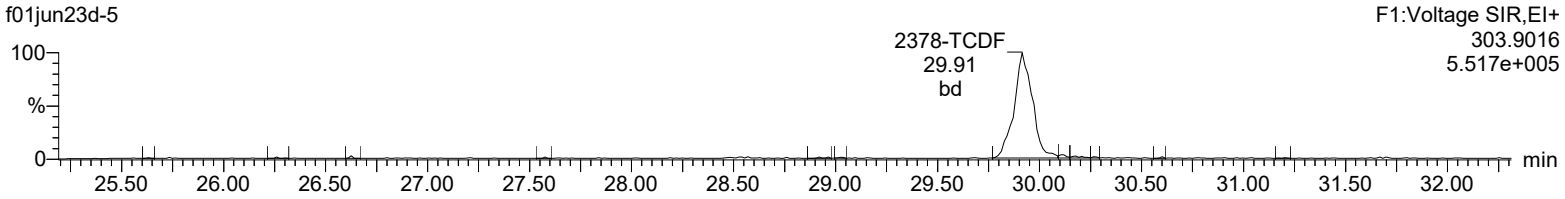
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

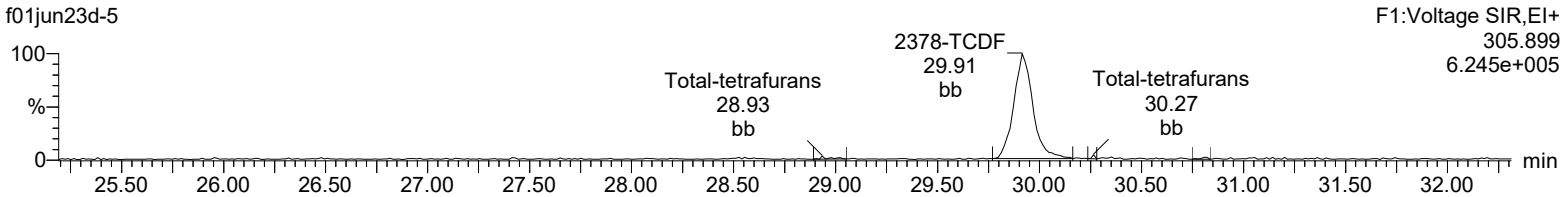
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

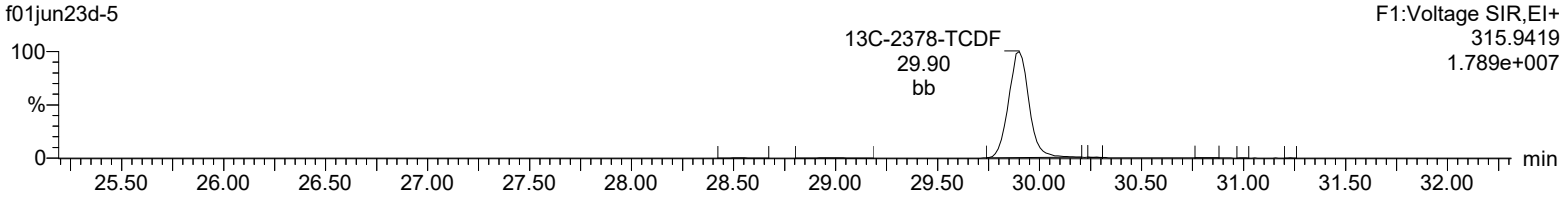
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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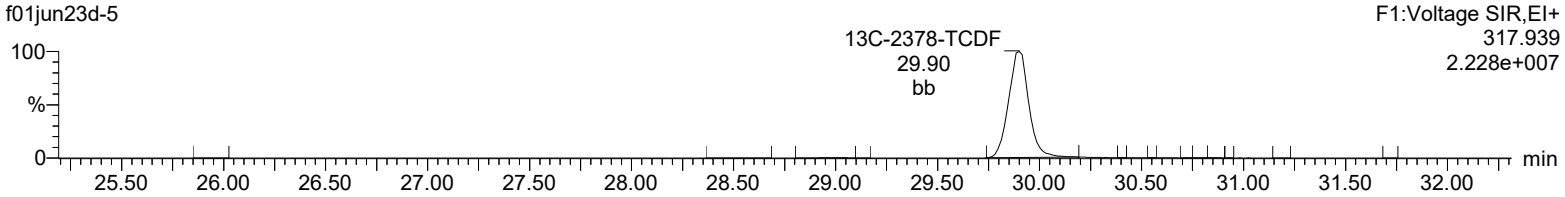
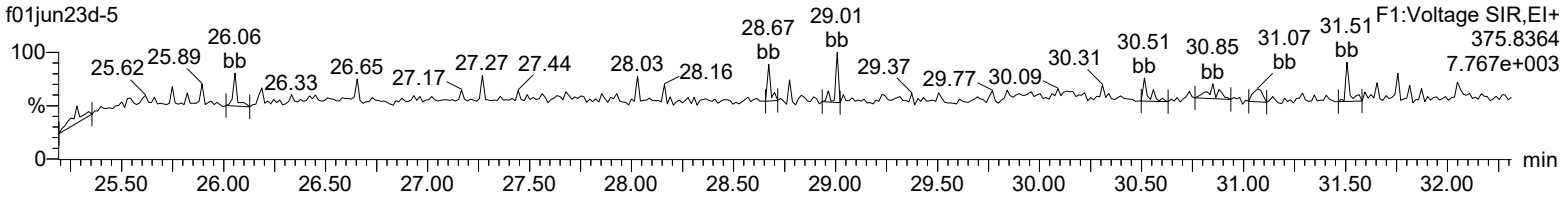
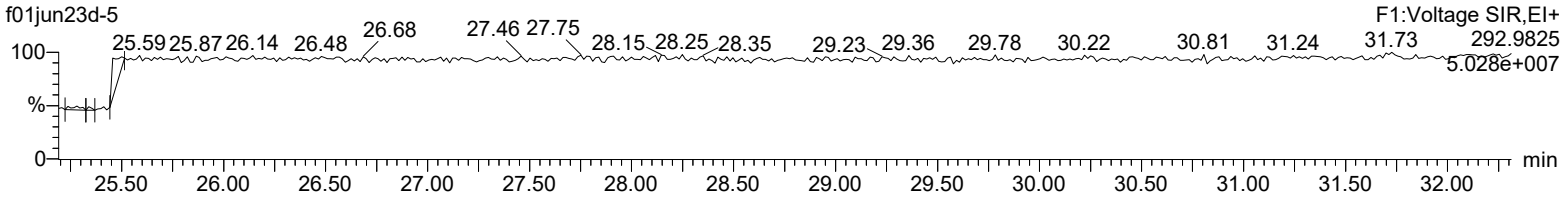


HxDPE



Lock Mass F1



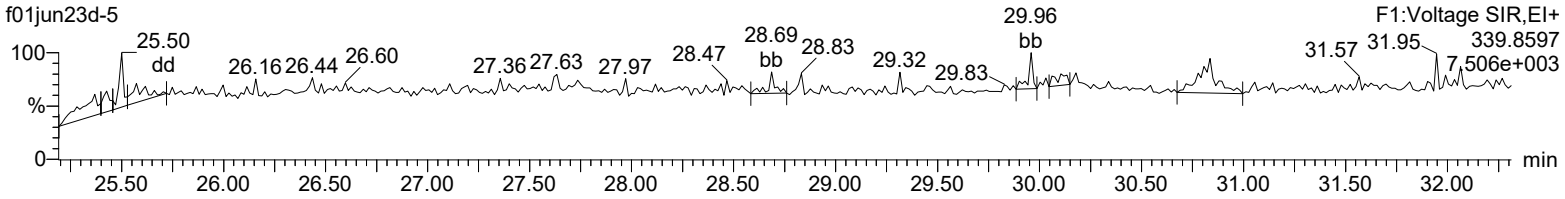
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

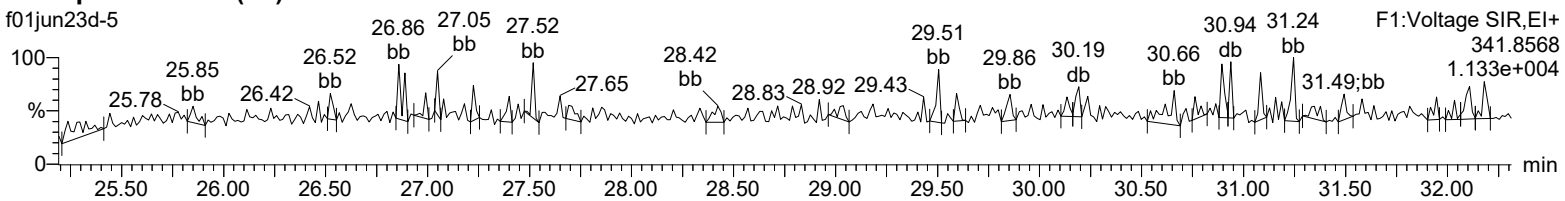
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

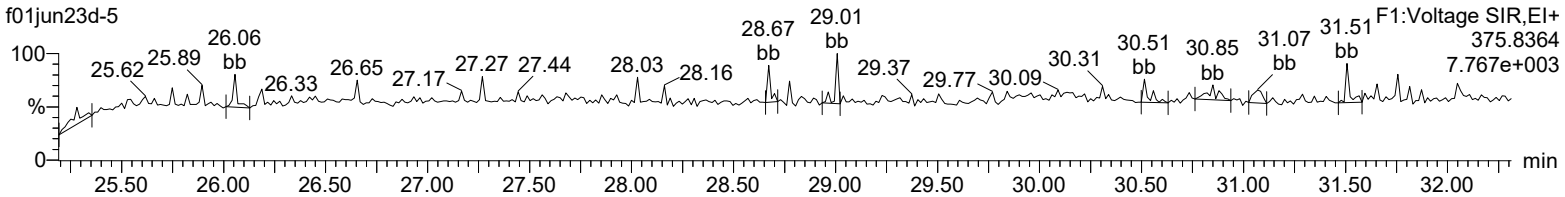
Total-pentafurans (F1)



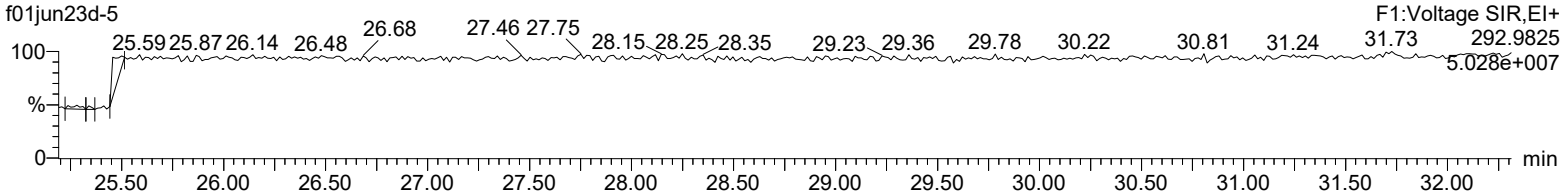
Total-pentafurans (F1)



HxDPE



Lock Mass F1



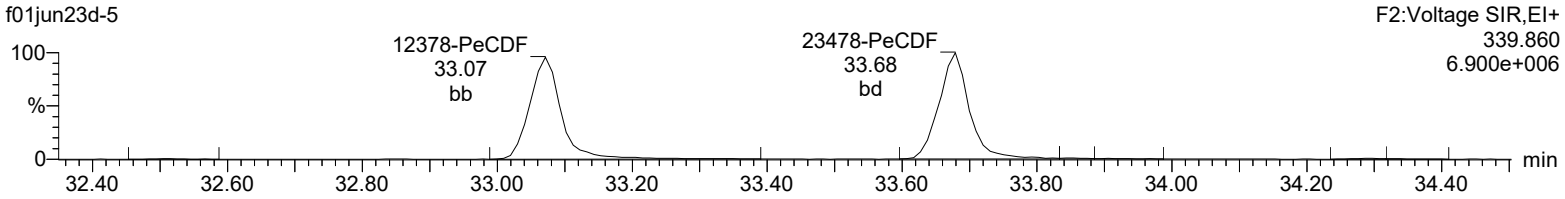
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

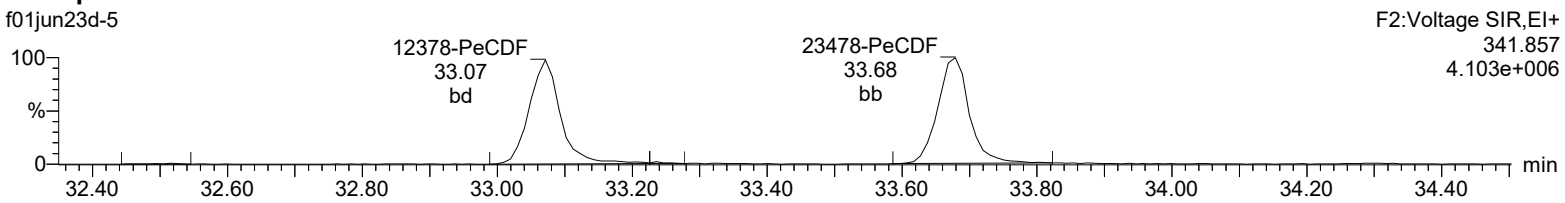
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

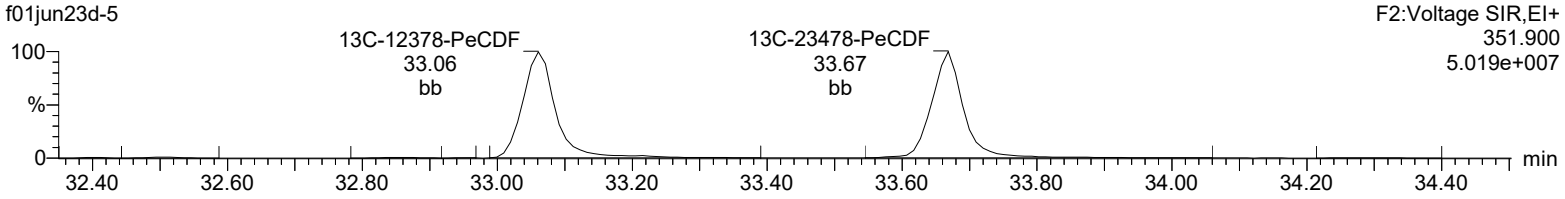
Total-pentafurans



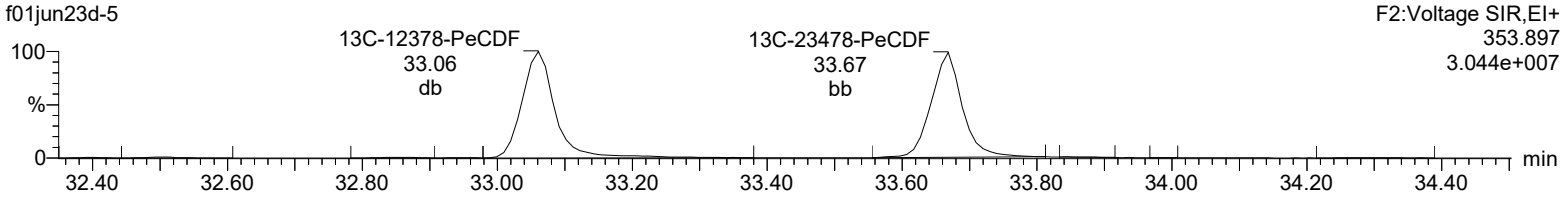
Total-pentafurans



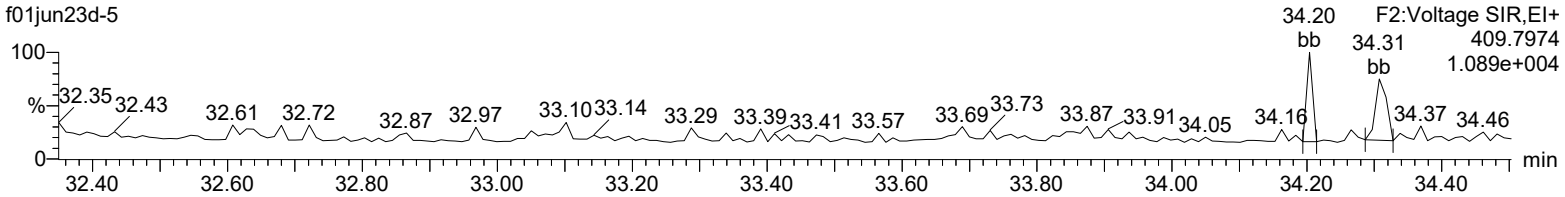
13C-12378-PeCDF



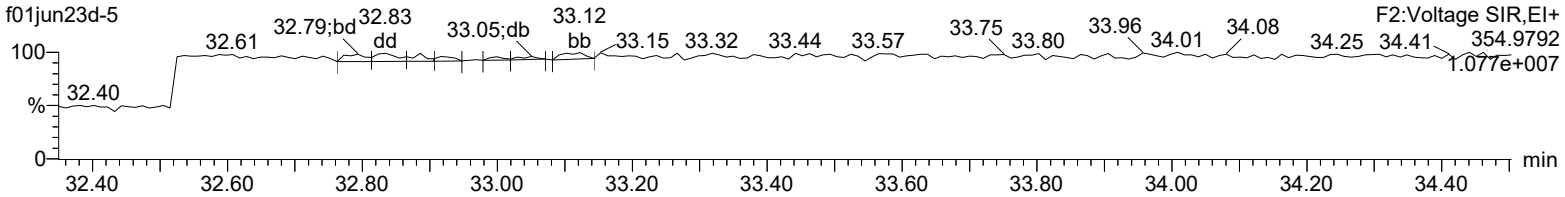
13C-12378-PeCDF



HpDPE



Lock Mass F2



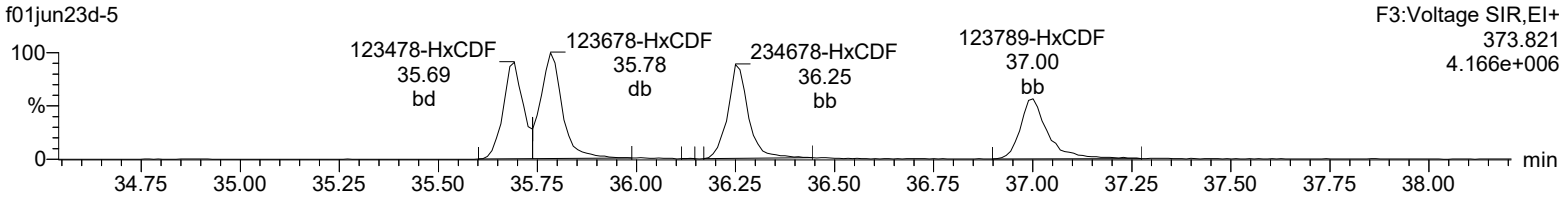
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

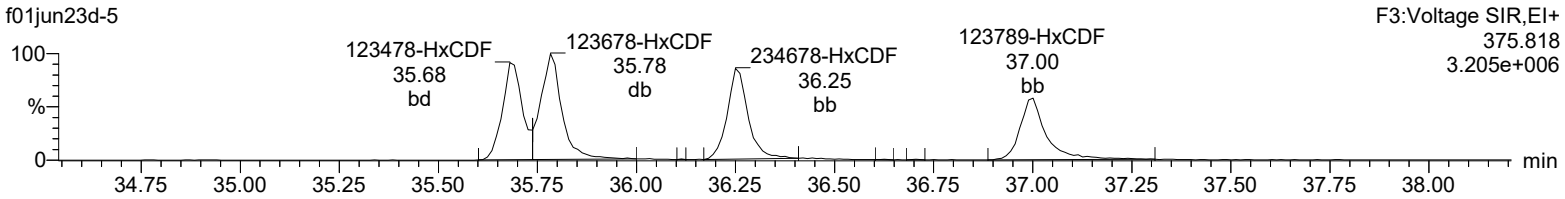
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

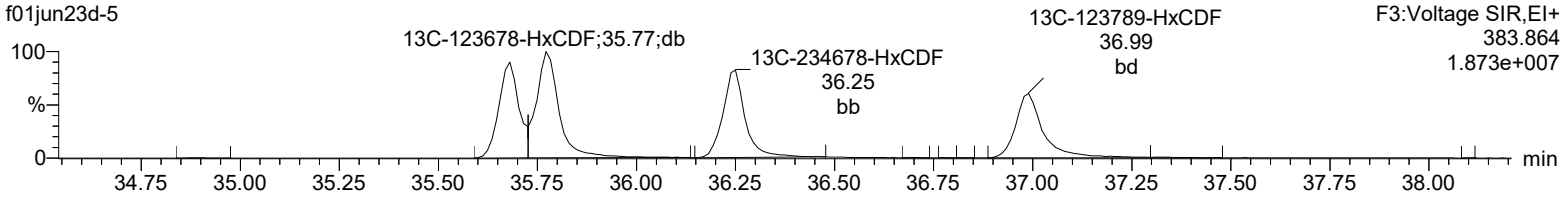
Total-hexafurans



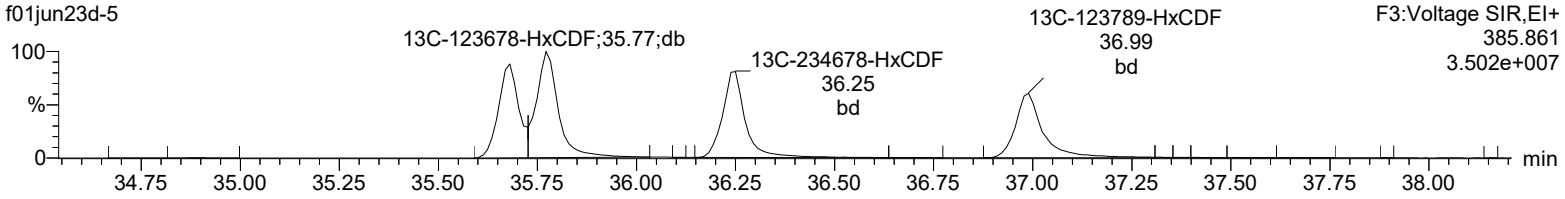
Total-hexafurans



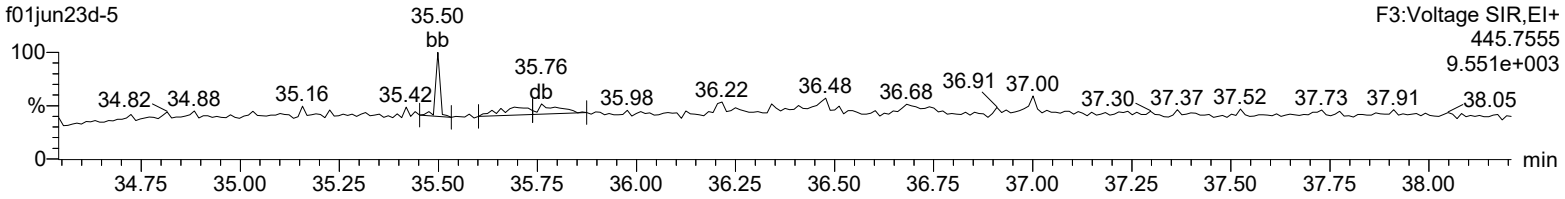
13C-123478-HxCDF



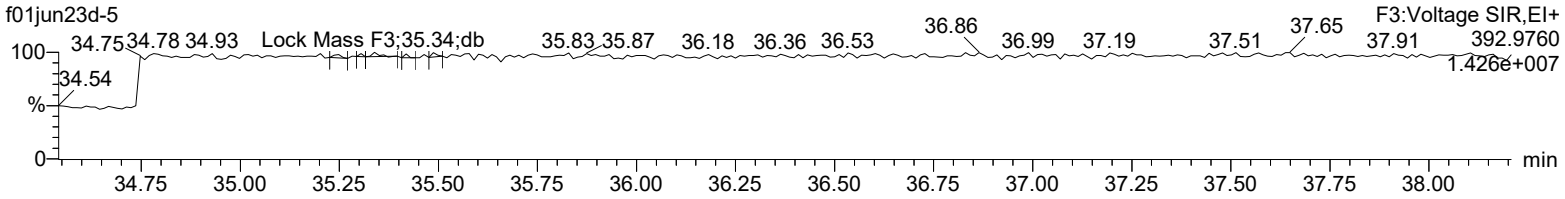
13C-123478-HxCDF



OcDPE



Lock Mass F3



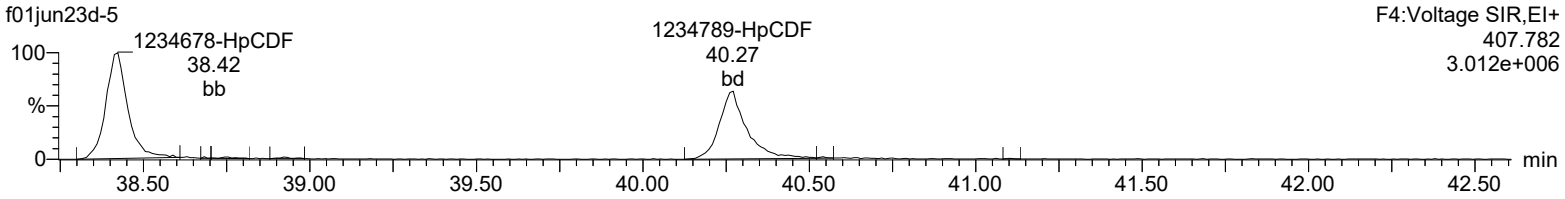
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

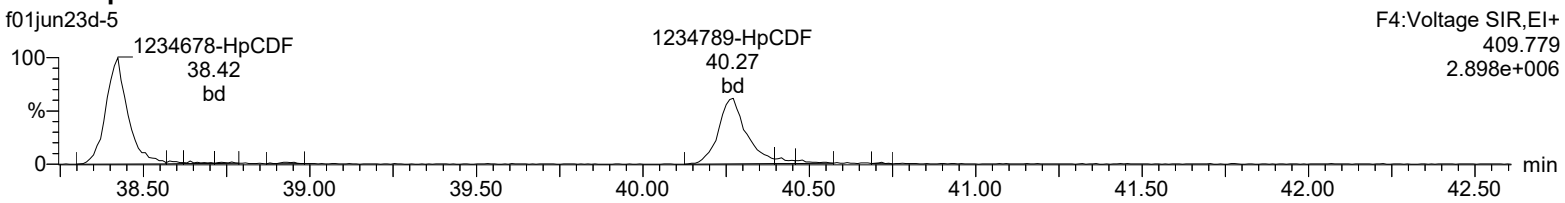
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

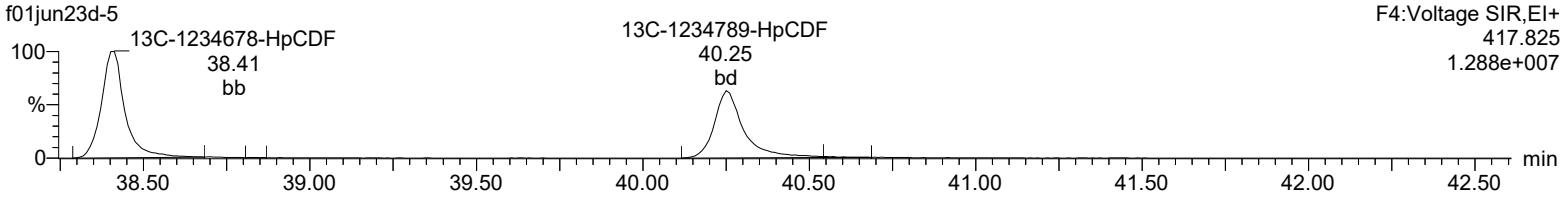
Total-heptafurans



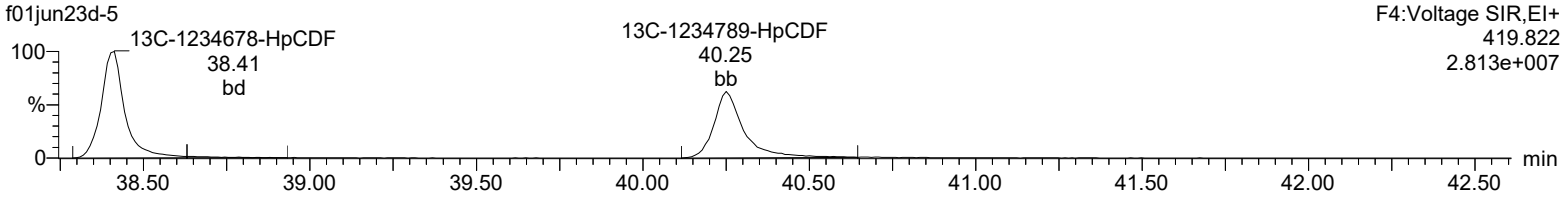
Total-heptafurans



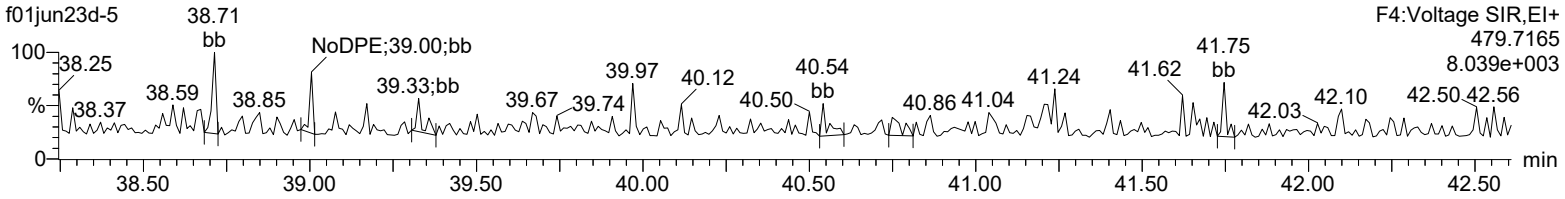
13C-1234678-HpCDF



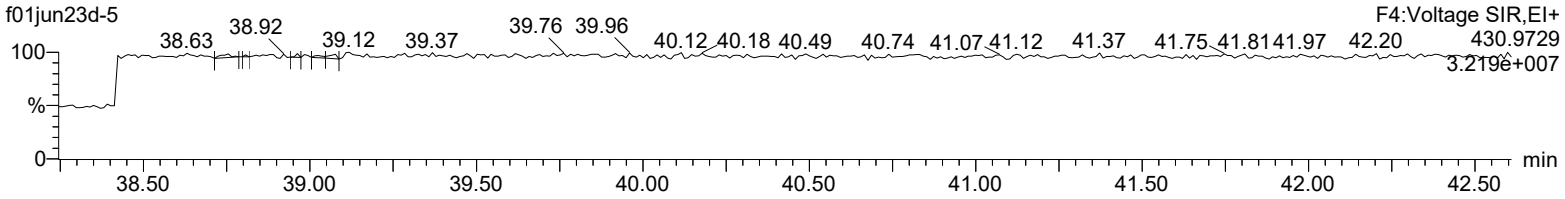
13C-1234678-HpCDF



NoDPE



Lock Mass F4



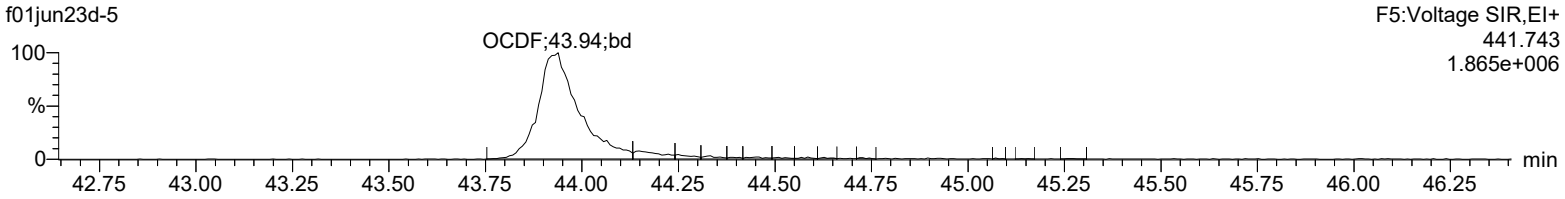
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

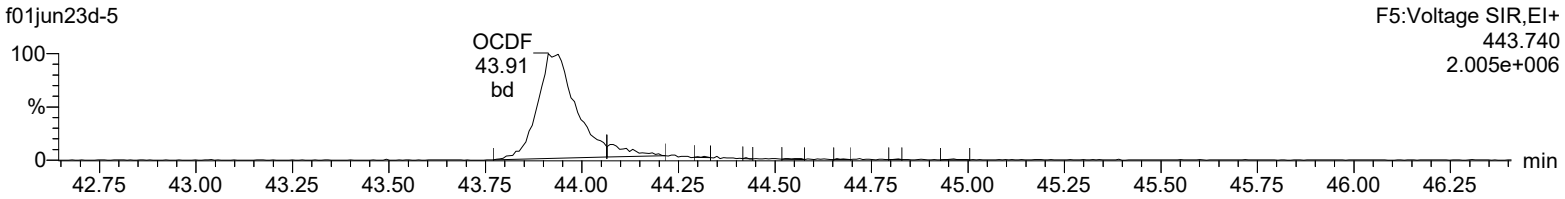
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

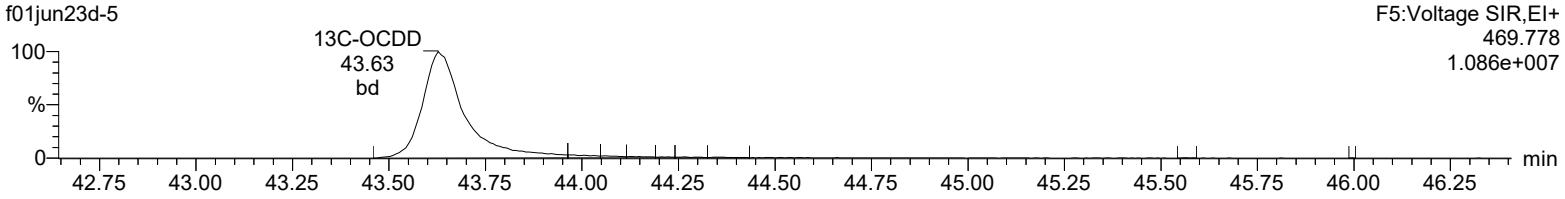
OCDF



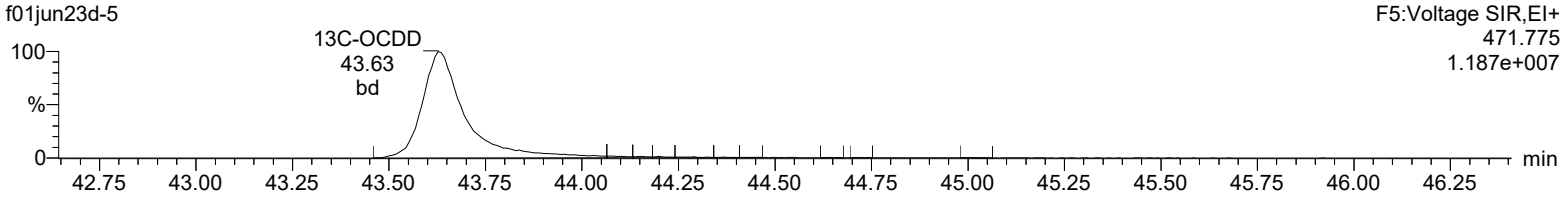
OCDF



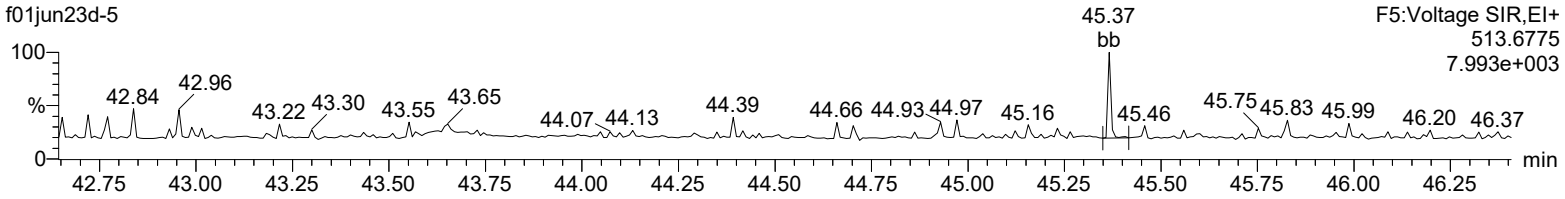
13C-OCDD



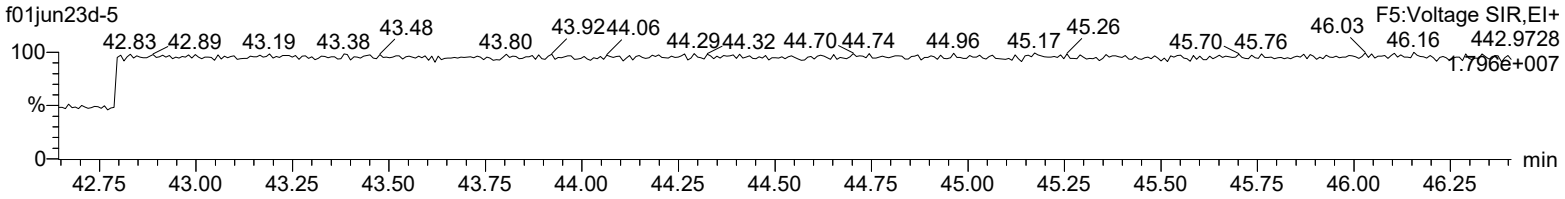
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:11 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	1.25e5	1.57e5	2.82e5	30.82	1.000	0.79	NO	10.061	1.106	1.100	5.89	0.0753	1.31e6	4107	317.8	1.64e6	3339	492.5	bd	dd
2	12378-PeCDD	6.60e5	4.05e5	1.06e6	33.86	1.000	1.63	NO	52.078	1.213	1.164	4.32	0.139	1.12e7	12670	886.6	7.03e6	4064	1729.7	bb	bd
3	123478-HxCDD	4.55e5	3.57e5	8.11e5	36.39	1.000	1.27	NO	50.870	1.091	1.073	4.27	0.240	7.68e6	9520	806.8	5.93e6	11453	517.5	bd	bd
4	123678-HxCDD	5.66e5	4.37e5	1.00e6	36.47	1.000	1.29	NO	51.990	1.107	1.064	5.73	0.222	8.25e6	9520	866.8	6.63e6	11453	578.9	dd	dd
5	123789-HxCDD	5.23e5	4.02e5	9.26e5	36.69	1.007	1.30	NO	52.629	1.122	1.066	6.89	0.231	6.95e6	9520	730.1	5.39e6	11453	470.3	dd	dd
6	1234678-HpCDD	4.81e5	4.31e5	9.12e5	39.63	1.000	1.12	NO	52.995	1.302	1.228	7.21	0.376	5.41e6	11926	453.7	4.70e6	10953	429.4	bd	bd
7	OCDD	6.39e5	6.78e5	1.32e6	43.65	1.001	0.94	NO	104.237	1.154	1.107	6.02	0.680	5.19e6	11063	469.5	5.50e6	11567	475.8	bd	bd
8	2378-TCDF	2.47e5	2.96e5	5.43e5	29.93	1.001	0.83	NO	10.240	1.385	1.352	4.83	0.0812	2.19e6	5916	370.6	2.60e6	6861	379.5	bd	bb
9	12378-PeCDF	1.54e6	9.15e5	2.45e6	33.07	1.000	1.68	NO	50.304	1.282	1.274	6.94	0.160	2.76e7	28214	977.7	1.68e7	18864	891.9	bb	bb
10	23478-PeCDF	1.55e6	9.76e5	2.52e6	33.68	1.000	1.59	NO	51.604	1.439	1.394	4.15	0.156	2.87e7	28214	1018.1	1.78e7	18864	946.1	bb	bb
11	123478-HxCDF	9.41e5	7.34e5	1.67e6	35.69	1.000	1.28	NO	51.274	1.454	1.418	4.11	0.205	1.66e7	19775	837.7	1.28e7	19524	653.9	bd	bd
12	123678-HxCDF	1.13e6	8.87e5	2.01e6	35.78	1.000	1.27	NO	51.905	1.430	1.378	4.15	0.202	1.72e7	19775	871.2	1.31e7	19524	671.8	db	dd
13	234678-HxCDF	9.66e5	7.77e5	1.74e6	36.26	1.000	1.24	NO	51.232	1.457	1.422	5.96	0.228	1.47e7	19775	745.9	1.16e7	19524	592.9	bb	dd
14	123789-HxCDF	8.03e5	6.13e5	1.42e6	37.00	1.000	1.31	NO	50.954	1.327	1.302	5.43	0.343	1.01e7	19775	509.0	7.73e6	19524	395.9	bd	bd
15	1234678-HpCDF	1.03e6	9.37e5	1.97e6	38.41	1.000	1.10	NO	51.441	1.424	1.384	4.56	0.290	1.27e7	22122	573.2	1.17e7	23280	503.6	bd	bb
16	1234789-HpCDF	8.06e5	7.28e5	1.53e6	40.26	1.000	1.11	NO	52.317	1.427	1.364	8.52	0.474	7.91e6	22122	357.5	7.16e6	23280	307.7	bb	bb
17	OCDF	1.03e6	1.13e6	2.16e6	43.93	1.007	0.91	NO	107.799	1.889	1.752	16.82	0.797	8.29e6	20300	408.4	8.93e6	21646	412.5	bd	bd
18	13C-2378-TCDD	1.13e6	1.42e6	2.55e6	30.81	1.023	0.79	NO	99.603	1.134	1.139	2.81	0.191	1.19e7	9284	1284.4	1.49e7	5268	2834.8	bd	bd
19	13C-12378-PeCDD	1.08e6	6.72e5	1.76e6	33.85	1.124	1.61	NO	96.071	0.781	0.813	6.11	0.224	1.91e7	5373	3561.7	1.19e7	6817	1743.4	bb	bb
20	13C-123478-HxCDD	8.35e5	6.52e5	1.49e6	36.38	0.992	1.28	NO	98.754	0.837	0.847	3.44	0.418	1.37e7	14778	928.0	1.06e7	12575	841.8	bd	bd
21	13C-123678-HxCDD	1.02e6	7.97e5	1.81e6	36.46	0.994	1.27	NO	99.296	1.020	1.027	0.98	0.344	1.49e7	14778	1009.6	1.19e7	12575	946.9	dd	dd
22	13C-1234678-HpCDD	7.28e5	6.74e5	1.40e6	39.61	1.080	1.08	NO	98.587	0.789	0.800	2.20	0.412	7.72e6	12301	627.9	7.41e6	13219	560.5	bd	bd
23	13C-OCDD	1.11e6	1.17e6	2.28e6	43.63	1.189	0.95	NO	196.889	0.642	0.653	4.31	0.507	8.77e6	15310	572.9	9.48e6	10268	923.7	bd	bd
24	13C-2378-TCDF	1.76e6	2.16e6	3.92e6	29.90	0.993	0.81	NO	100.638	1.745	1.734	1.52	0.156	1.56e7	10087	1550.7	1.88e7	8071	2333.8	bd	bd
25	13C-12378-PeCDF	2.38e6	1.44e6	3.82e6	33.06	1.098	1.65	NO	98.984	1.701	1.719	3.99	0.493	4.30e7	29482	1458.2	2.64e7	27336	965.6	bd	bb
26	13C-23478-PeCDF	2.19e6	1.32e6	3.51e6	33.67	1.118	1.66	NO	96.395	1.561	1.619	7.01	0.523	4.06e7	29482	1378.2	2.50e7	27336	914.2	bb	bb
27	13C-123478-HxCDF	8.00e5	1.50e6	2.30e6	35.68	0.973	0.53	NO	100.391	1.296	1.291	3.13	0.432	1.41e7	22167	634.9	2.61e7	21002	1244.7	bd	bd
28	13C-123678-HxCDF	9.88e5	1.83e6	2.82e6	35.77	0.975	0.54	NO	99.196	1.585	1.598	1.73	0.349	1.48e7	22167	669.6	2.82e7	21002	1343.9	db	db
29	13C-234678-HxCDF	8.25e5	1.57e6	2.39e6	36.25	0.988	0.53	NO	100.706	1.347	1.338	1.29	0.417	1.26e7	22167	566.7	2.33e7	21002	1108.5	bb	bd
30	13C-123789-HxCDF	7.42e5	1.39e6	2.13e6	36.99	1.008	0.53	NO	100.954	1.201	1.190	2.59	0.469	9.17e6	22167	413.8	1.70e7	21002	809.3	bb	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:11 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	8.51e5	1.92e6	2.77e6	38.40	1.047	0.44	NO	101.350	1.558	1.537	2.02	0.326	1.04e7	17586	592.7	2.25e7	21106	1065.7	bd	bb
32	13C-1234789-HpCDF	6.58e5	1.49e6	2.15e6	40.25	1.097	0.44	NO	101.026	1.211	1.198	2.23	0.418	6.44e6	17586	366.4	1.39e7	21106	658.1	bd	bb
33	13C-1234-TCDD	1.00e6	1.24e6	2.25e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.217	8.99e6	9284	968.2	1.13e7	5268	2147.3	bb	bb
34	13C-123789-HxCDD	9.99e5	7.78e5	1.78e6	36.68	0.000	1.28	NO	100.000	1.000	1.000	0.00	0.354	1.30e7	14778	882.4	1.04e7	12575	823.5	dd	dd
35	37Cl-2378-TCDD	2.56e5		2.56e5	30.83	1.024			10.125	1.138	1.124	6.42	0.0314	2.65e6	2368	1120.0				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

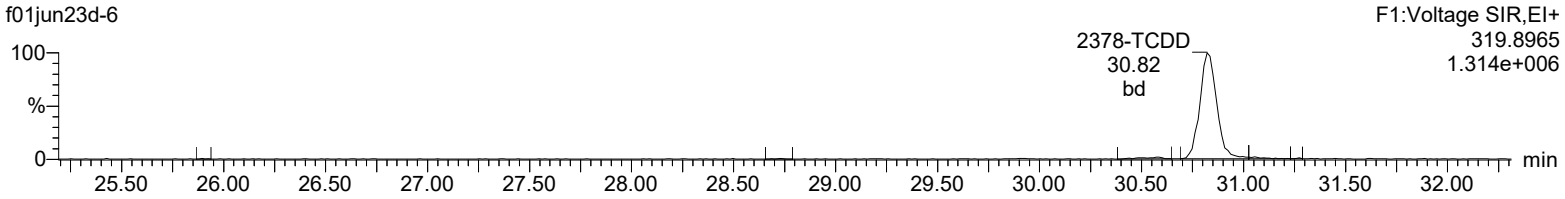
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

06/06/2023

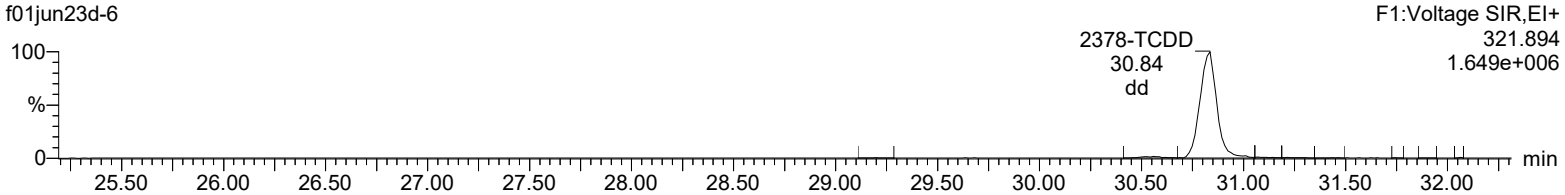
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

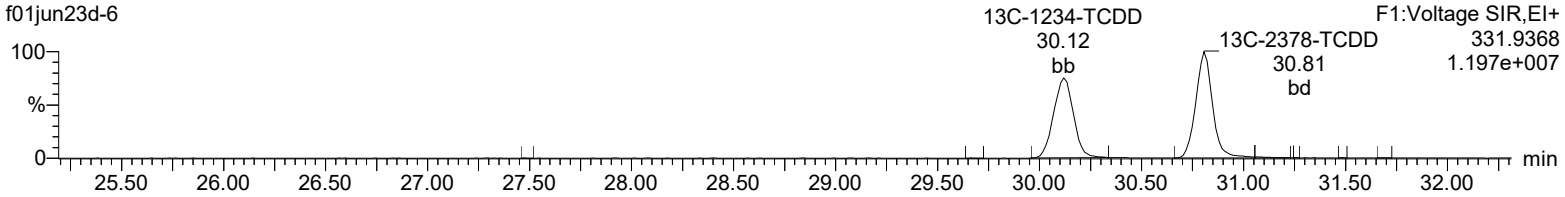
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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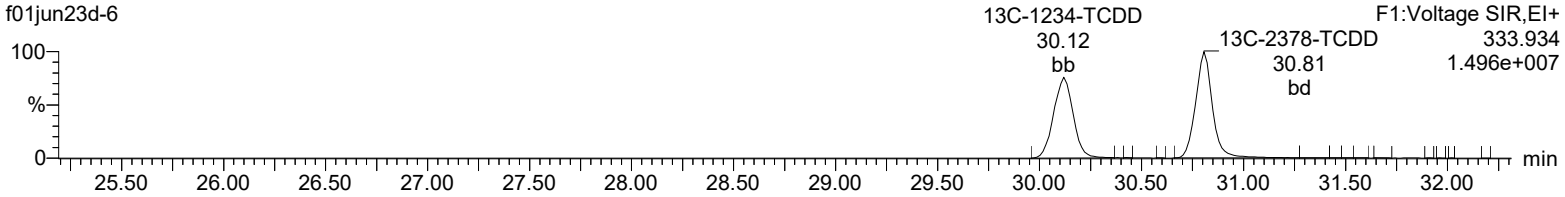

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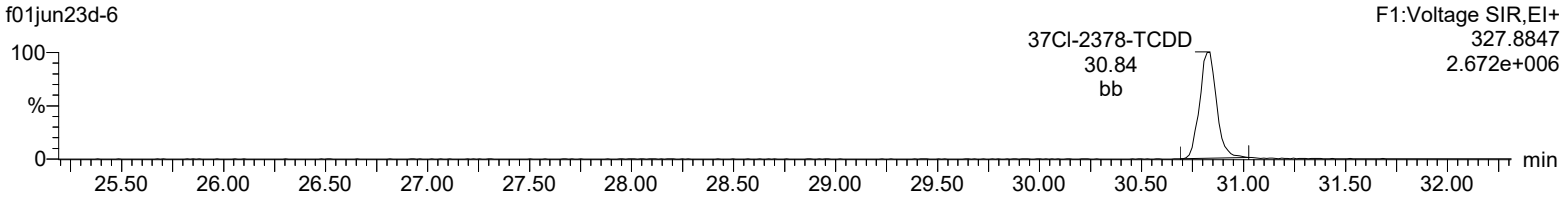
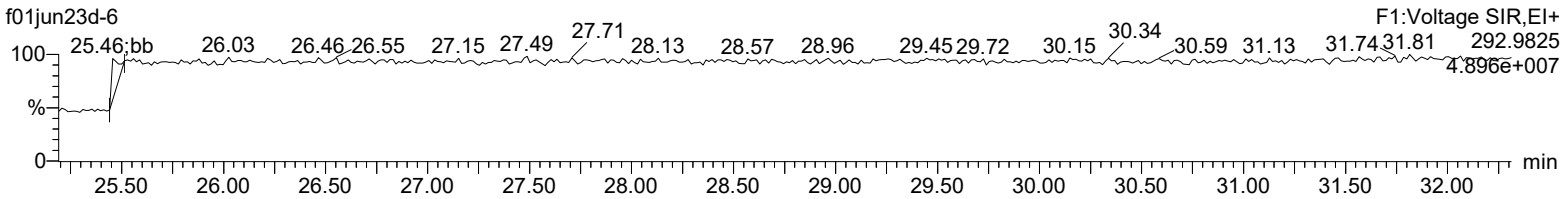


Lock Mass F1



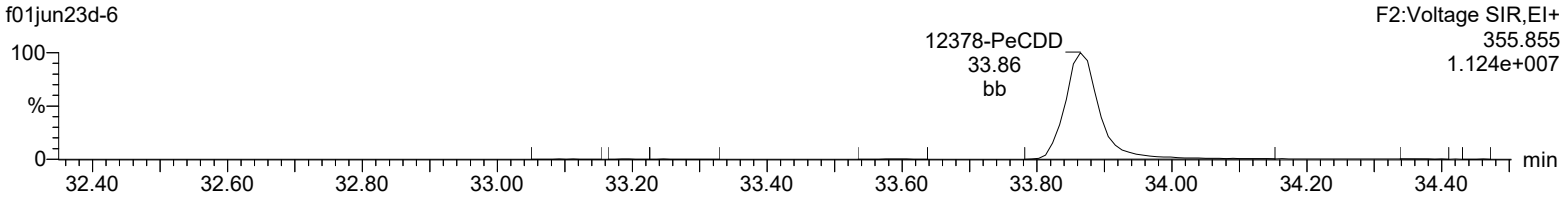
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

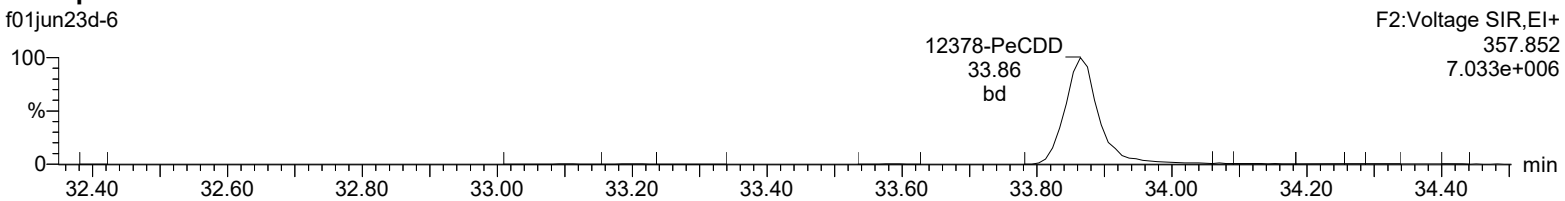
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

Total-pentadioxins



Total-pentadioxins



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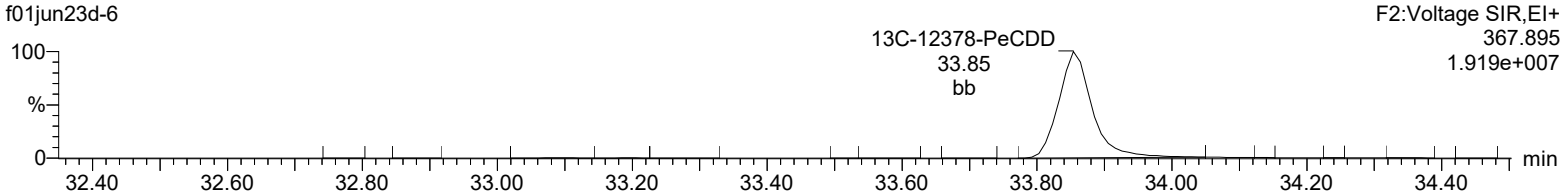

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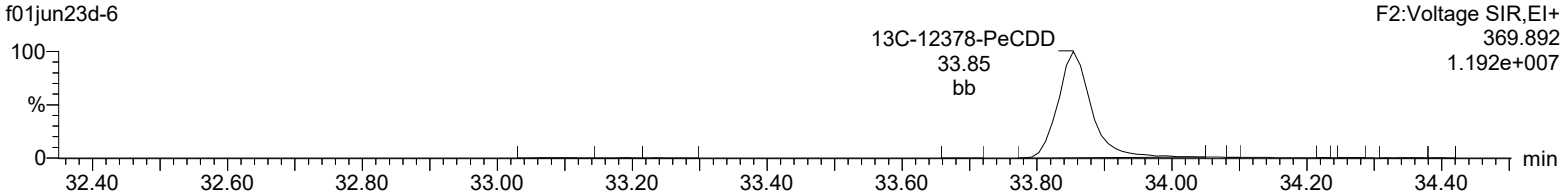

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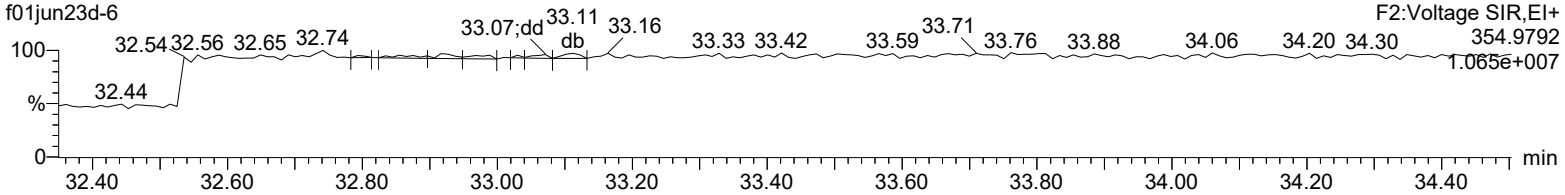


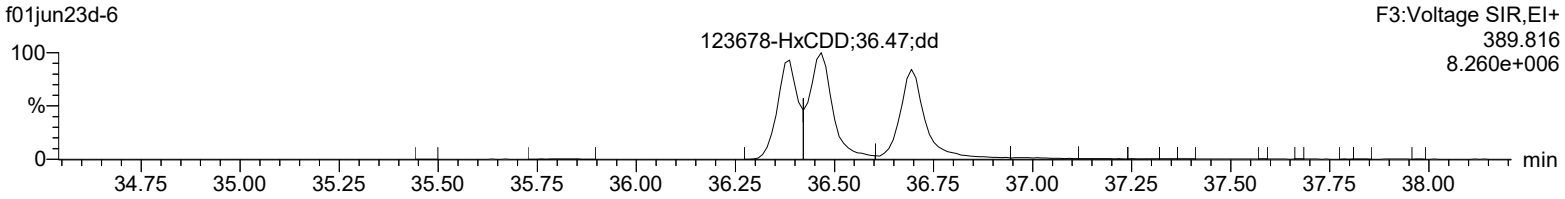
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

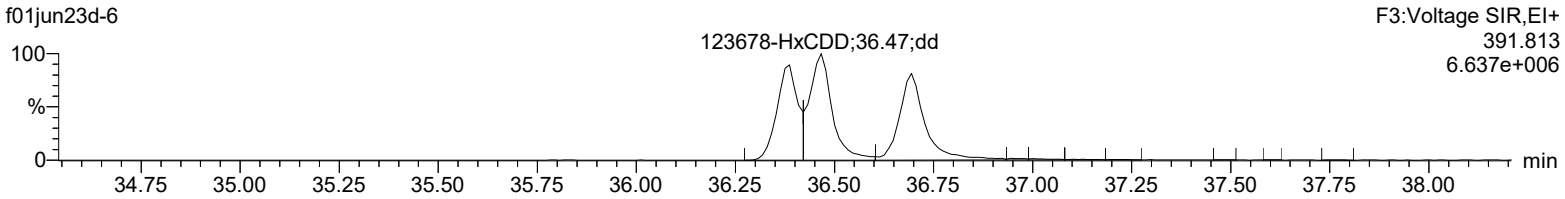
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

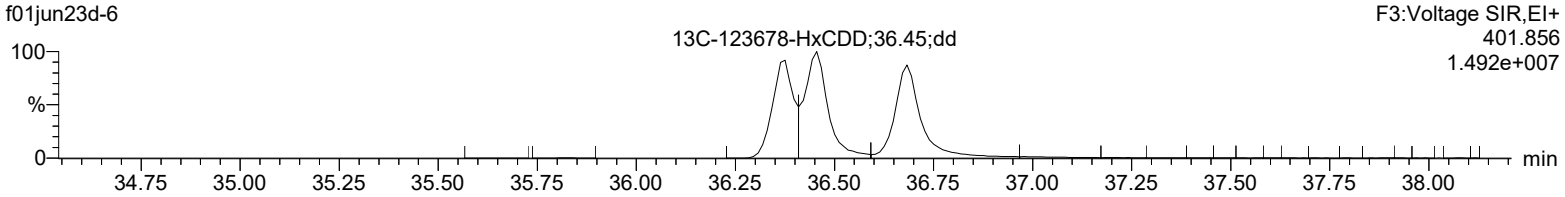
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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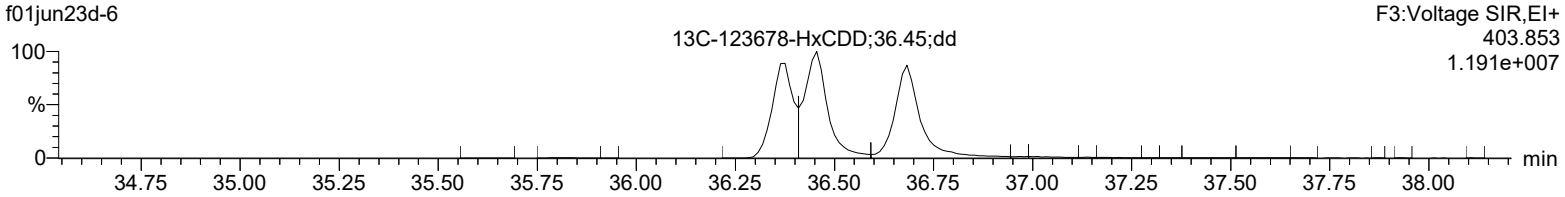
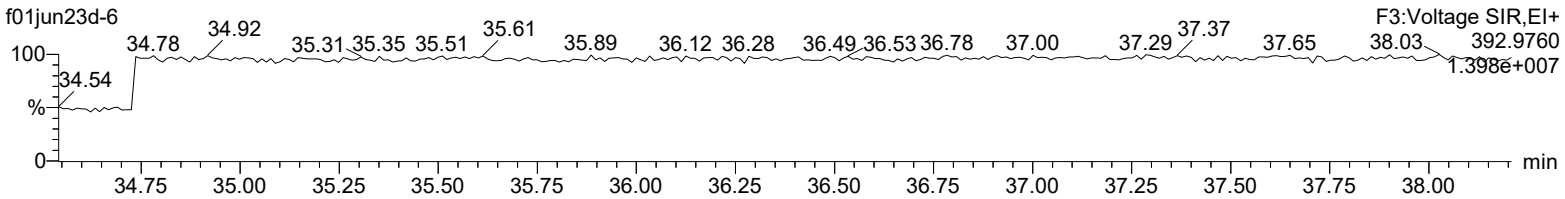


Lock Mass F3



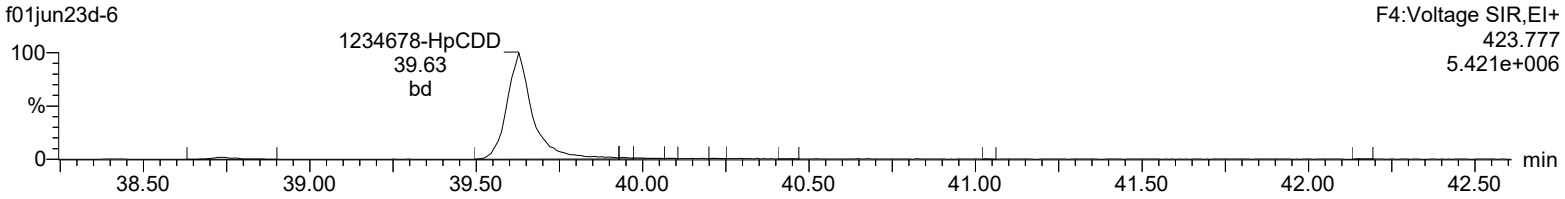
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

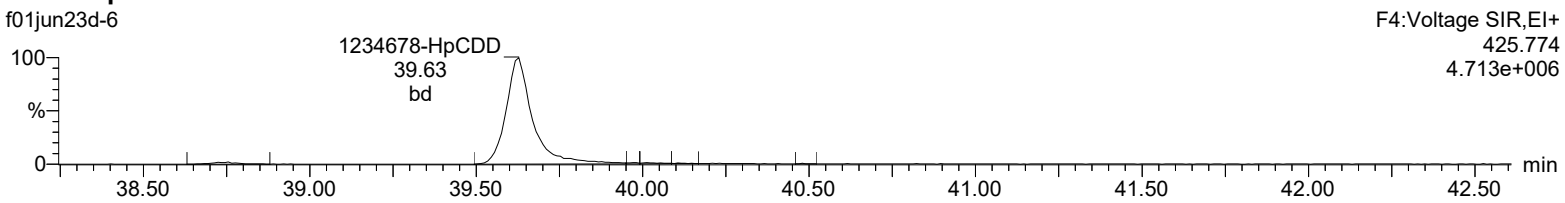
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

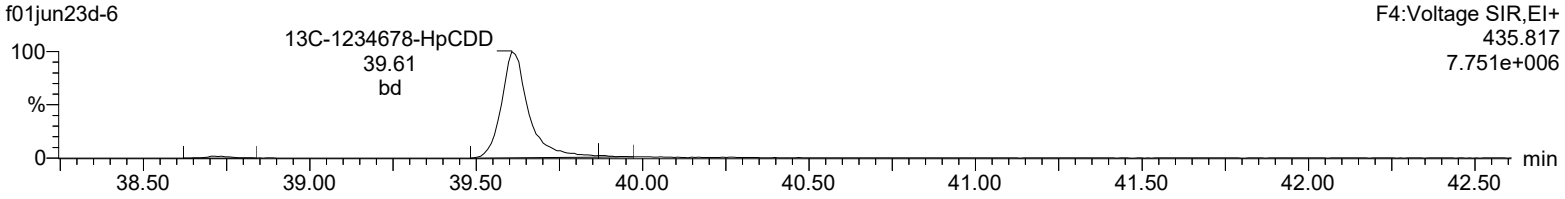
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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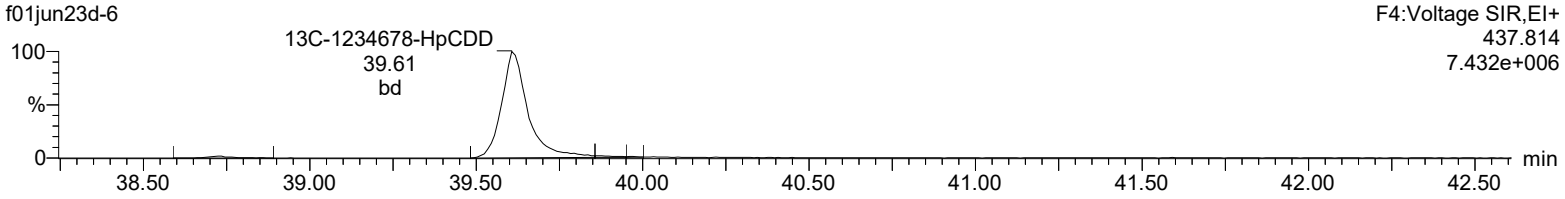

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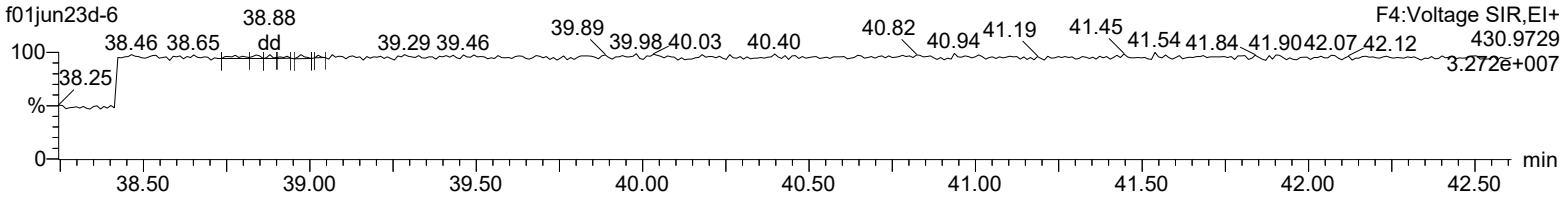


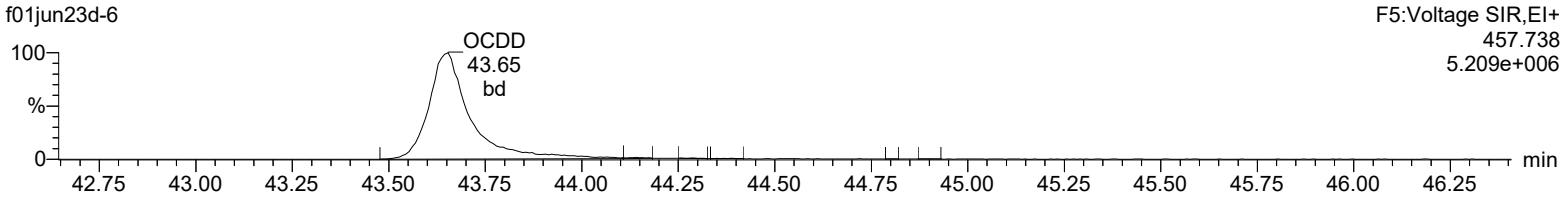
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

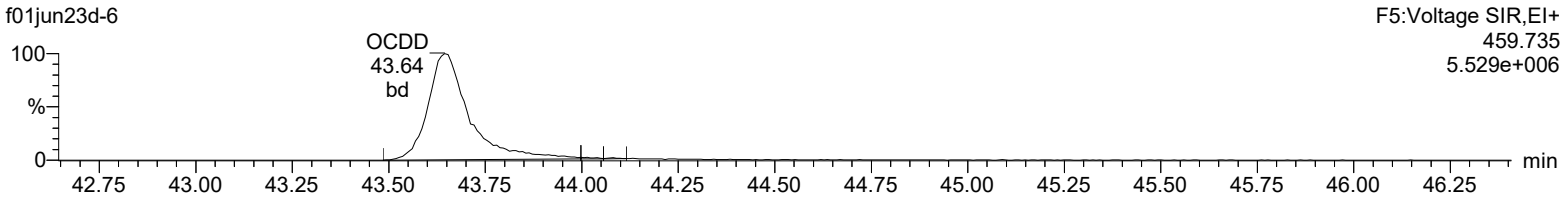
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

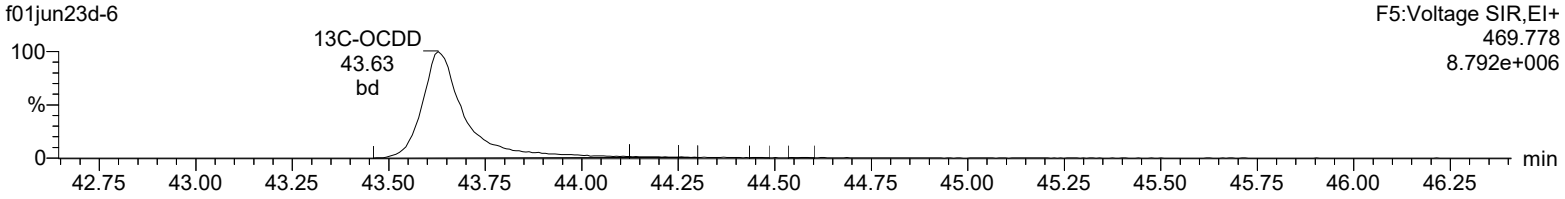
OCDD



OCDD



13C-OCDD



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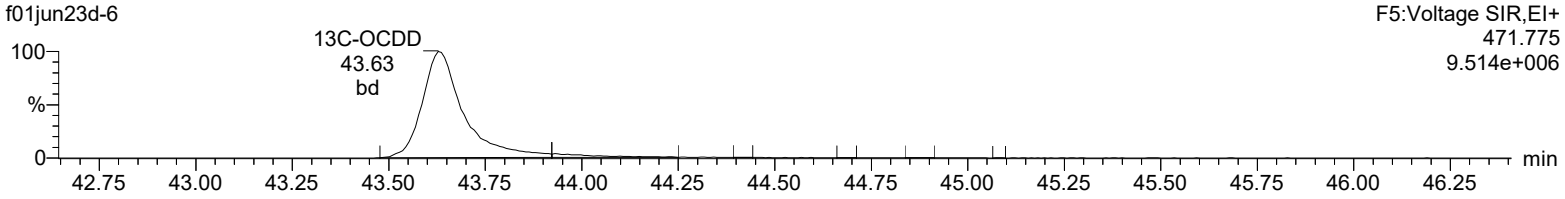
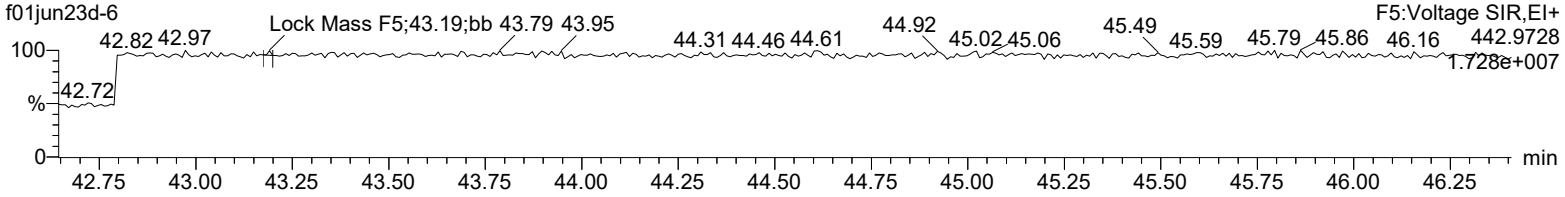


Lock Mass F5



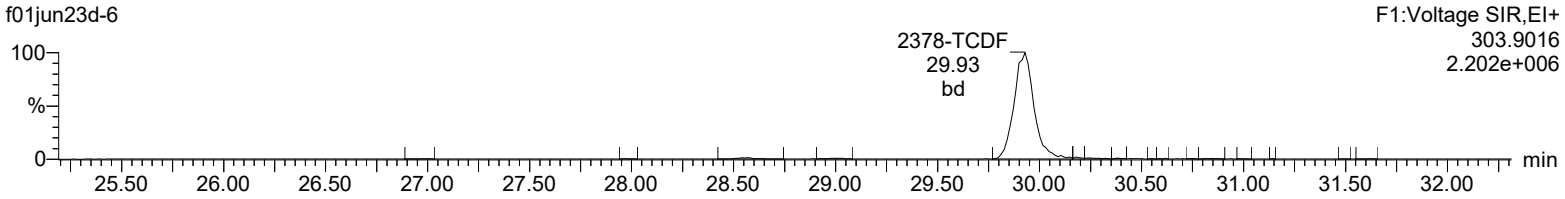
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

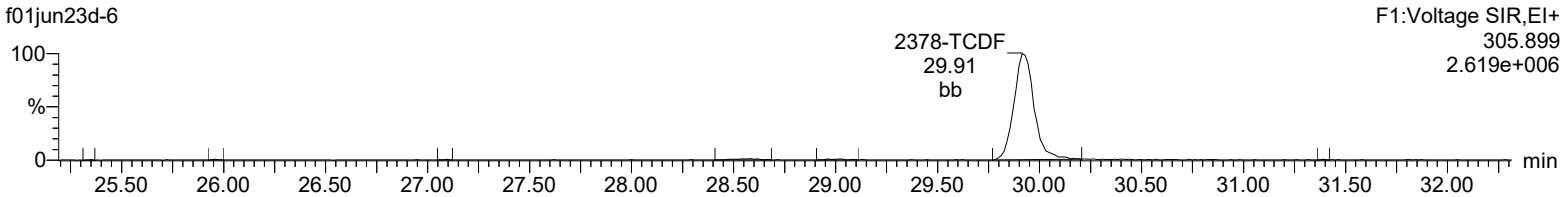
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

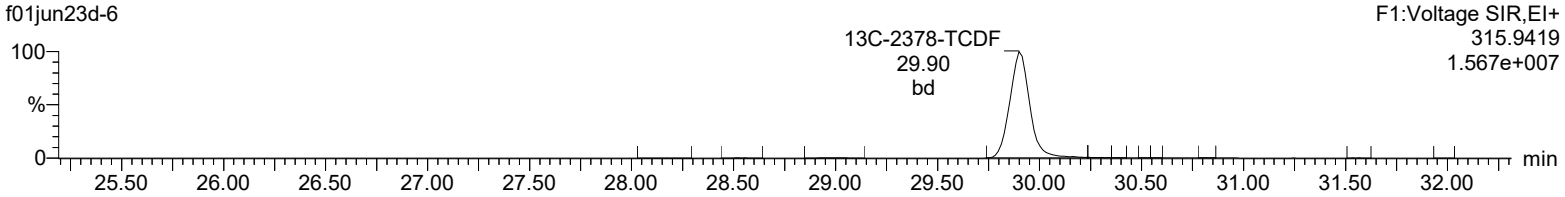
Total-tetrafurans



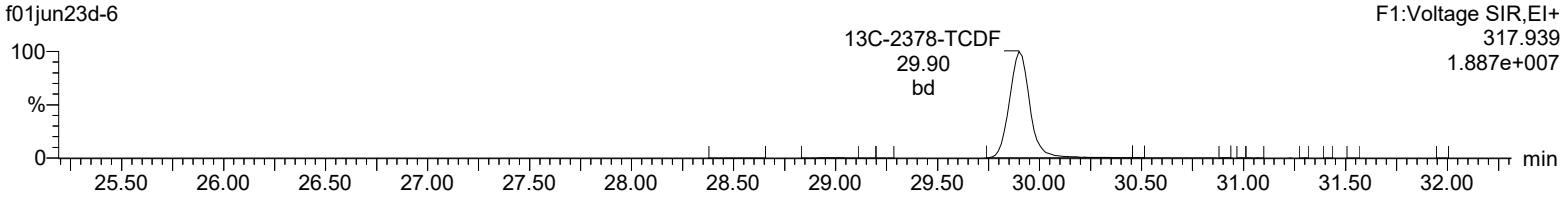
Total-tetrafurans



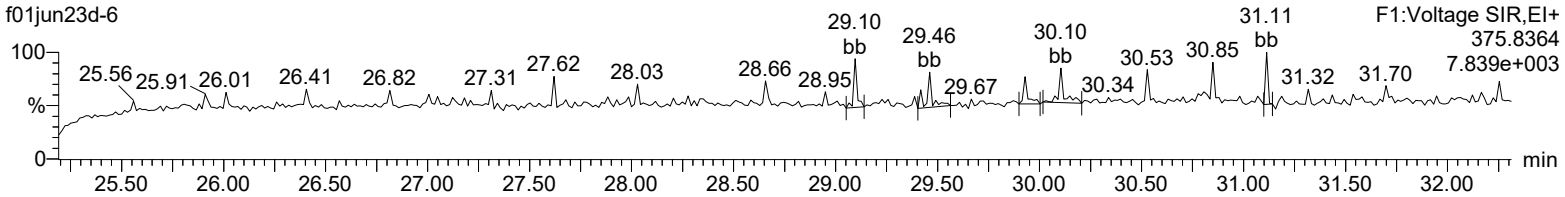
13C-2378-TCDF



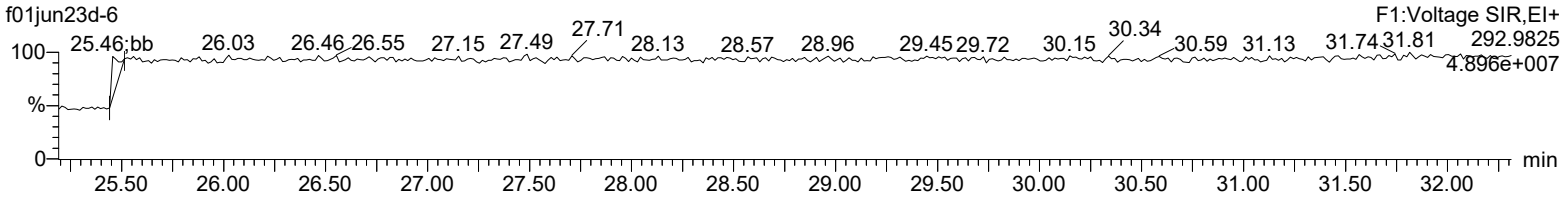
13C-2378-TCDF



HxDPE



Lock Mass F1



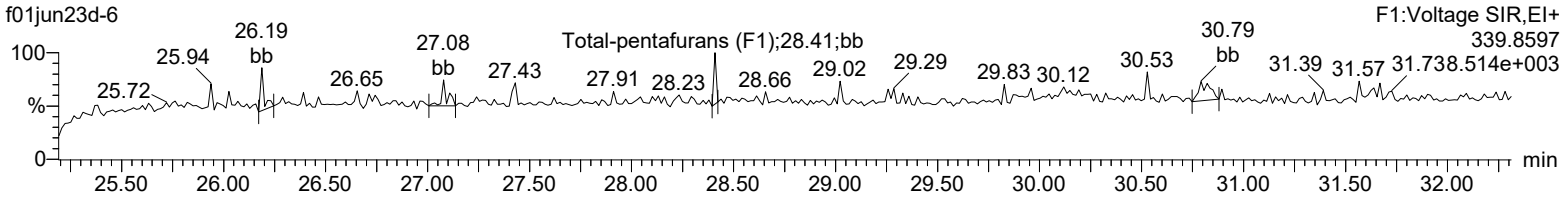
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

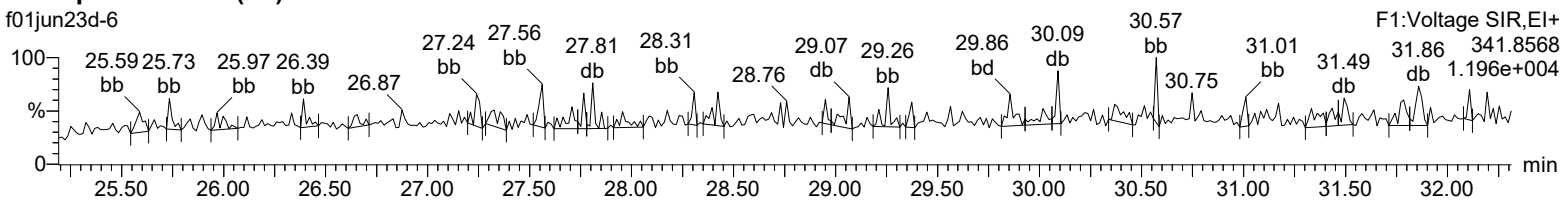
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

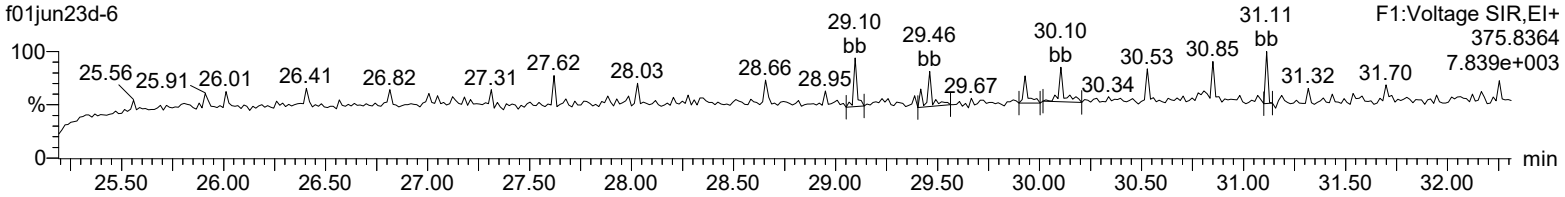
Total-pentafurans (F1)



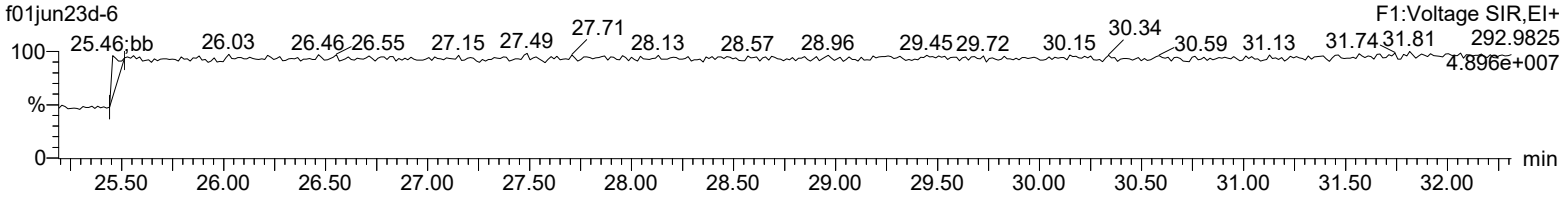
Total-pentafurans (F1)



HxDPE



Lock Mass F1



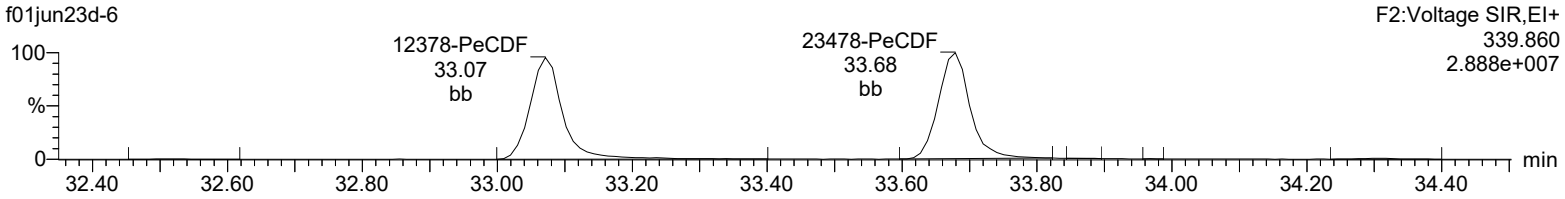
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

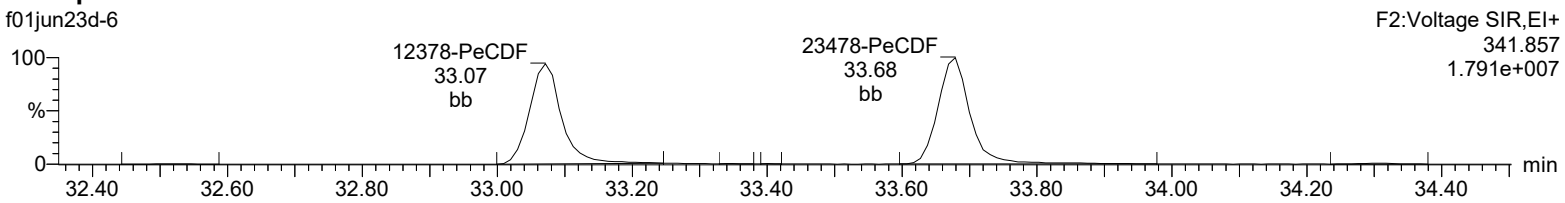
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

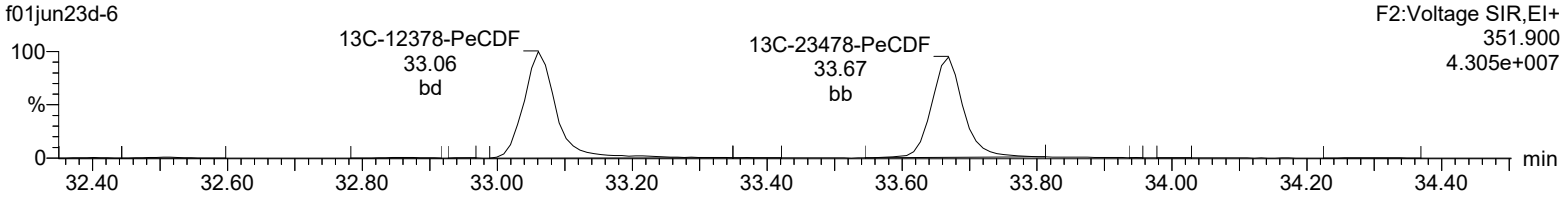
Total-pentafurans



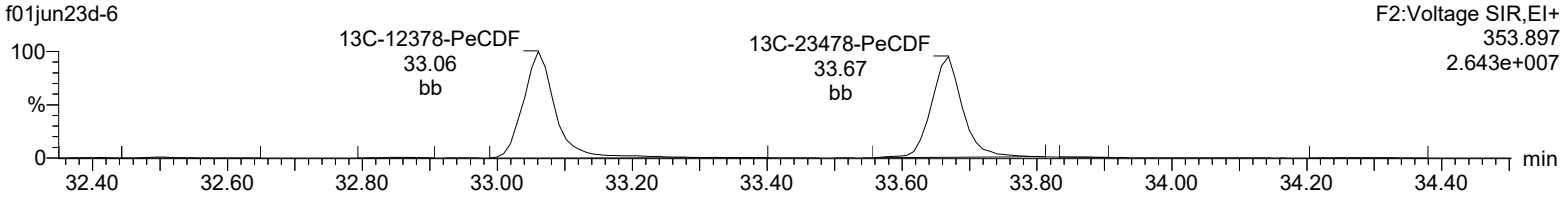
Total-pentafurans



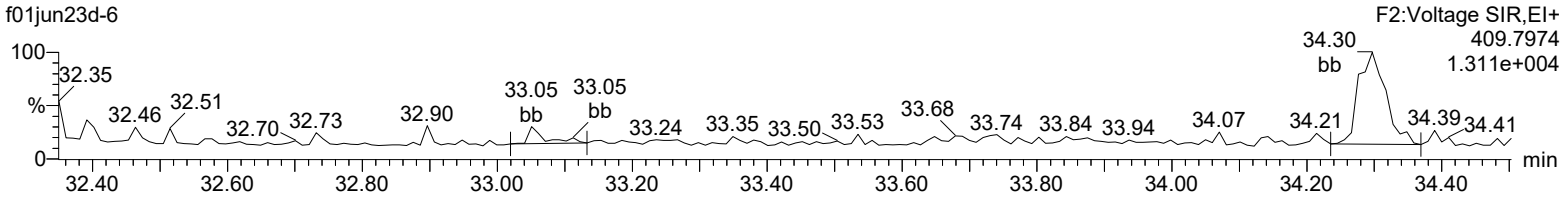
13C-12378-PeCDF



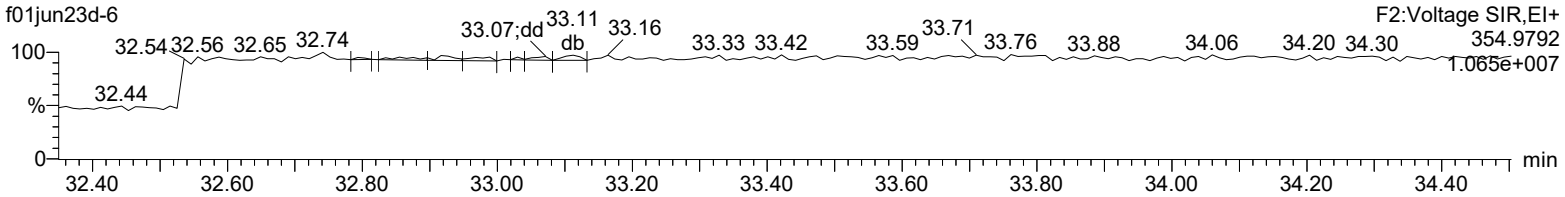
13C-12378-PeCDF



HpDPE



Lock Mass F2



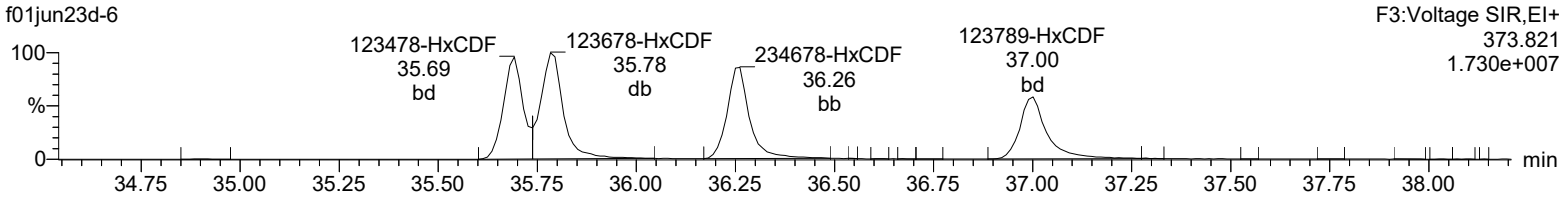
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

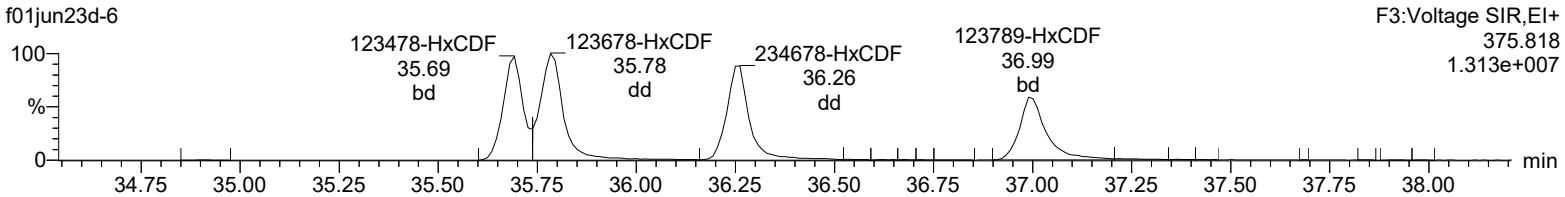
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

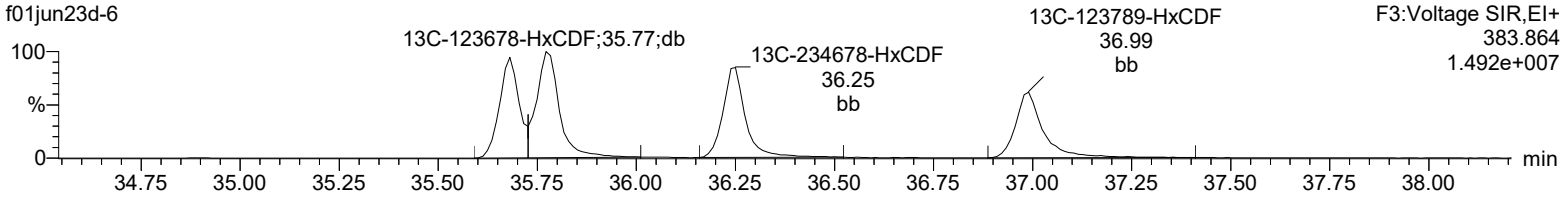
Total-hexafurans



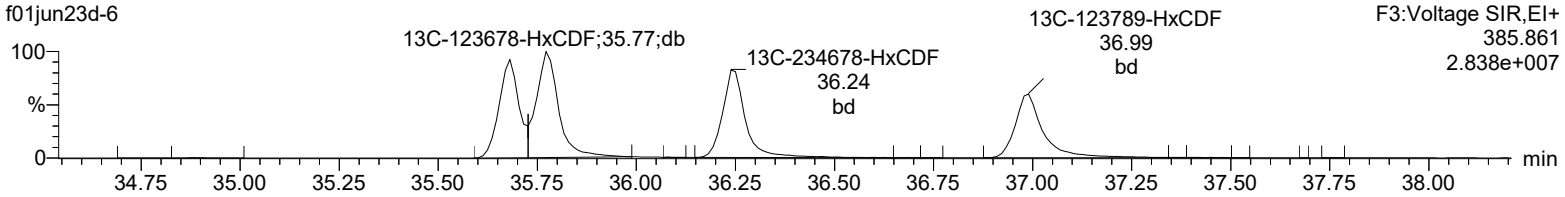
Total-hexafurans



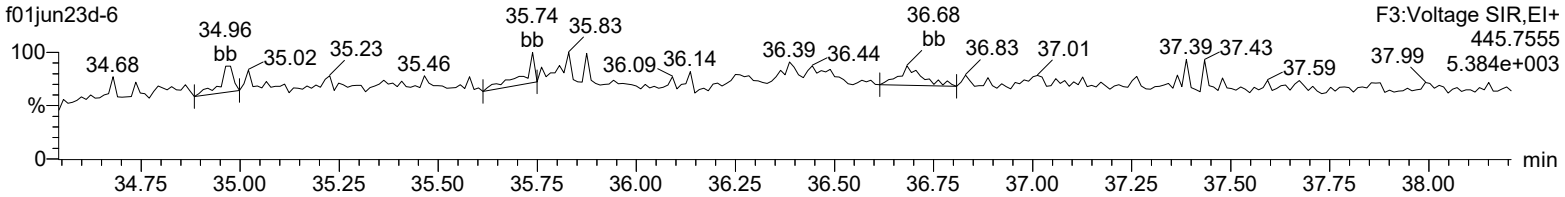
13C-123478-HxCDF



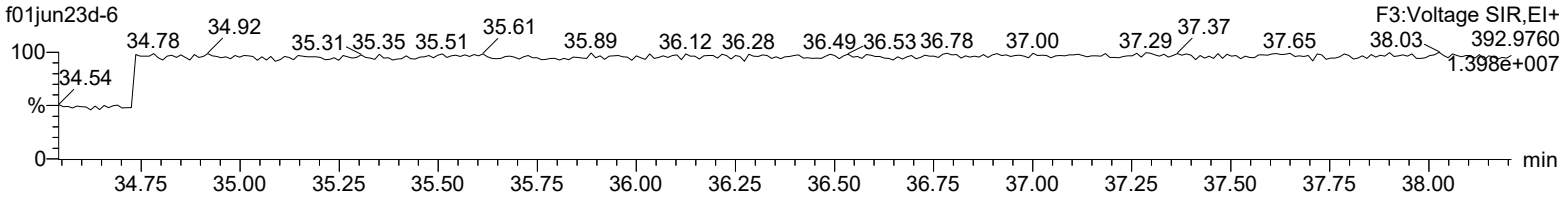
13C-123478-HxCDF



OcDPE



Lock Mass F3



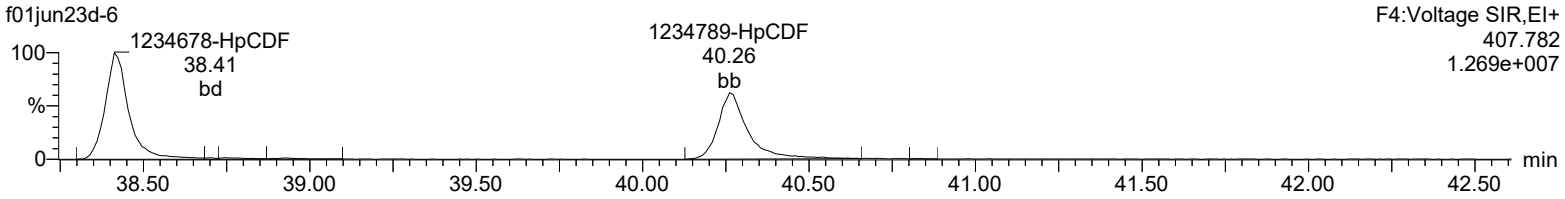
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

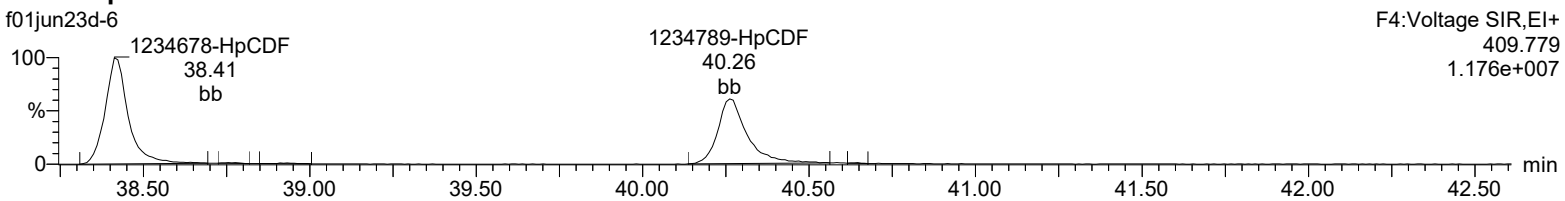
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

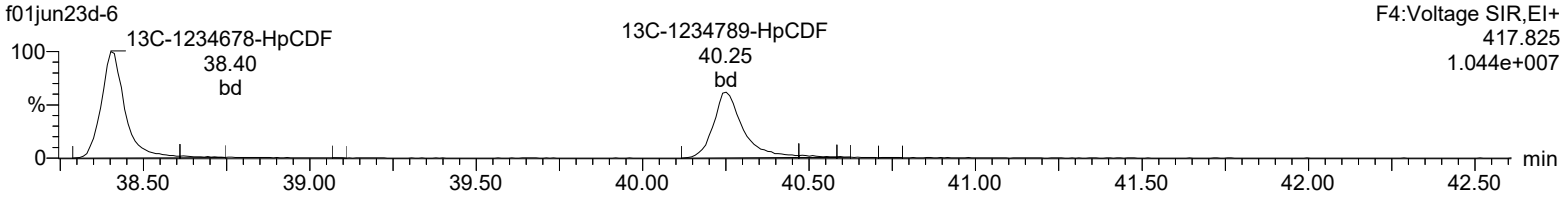
Total-heptafurans



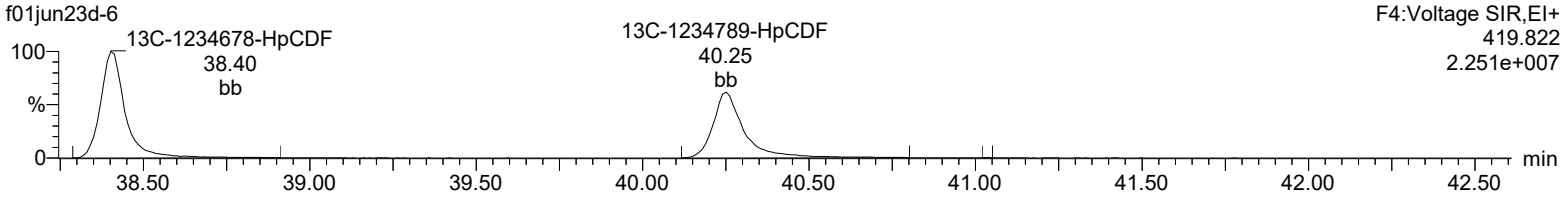
Total-heptafurans



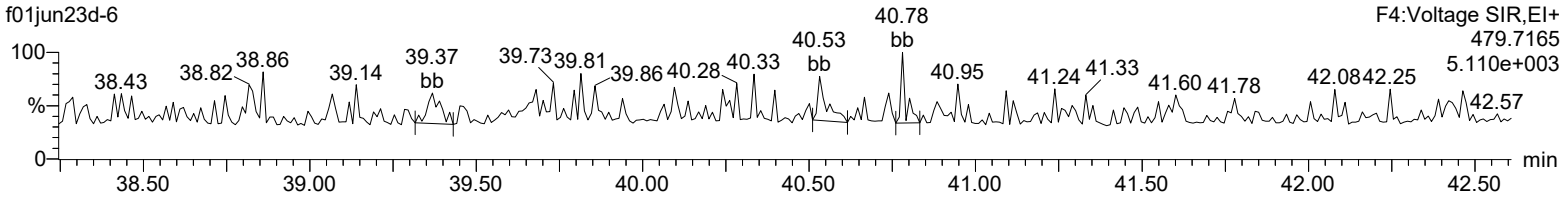
13C-1234678-HpCDF



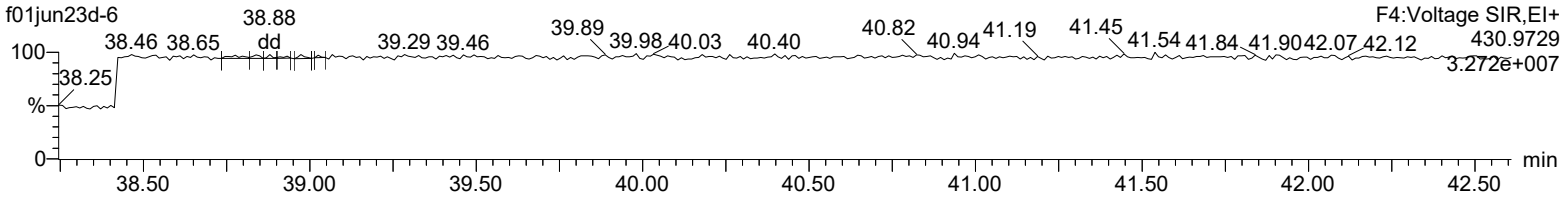
13C-1234678-HpCDF



NoDPE



Lock Mass F4



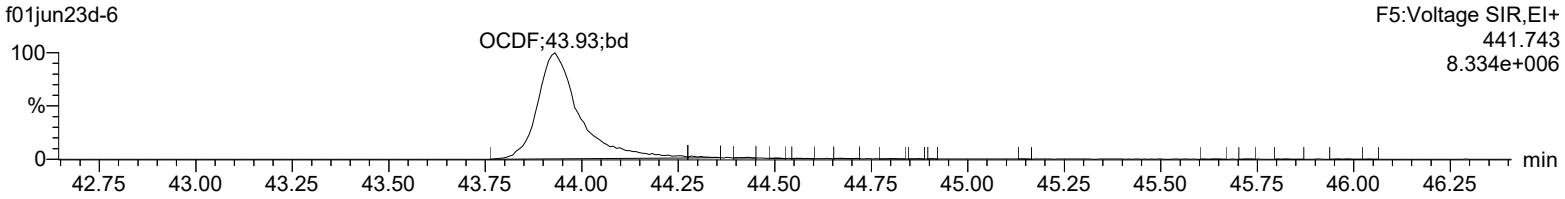
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

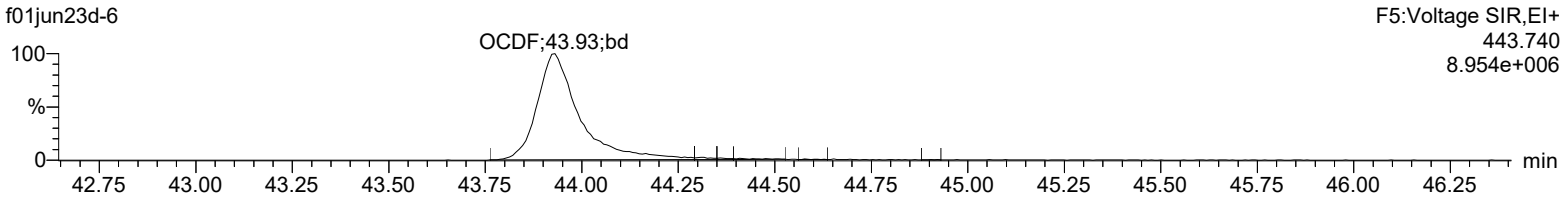
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

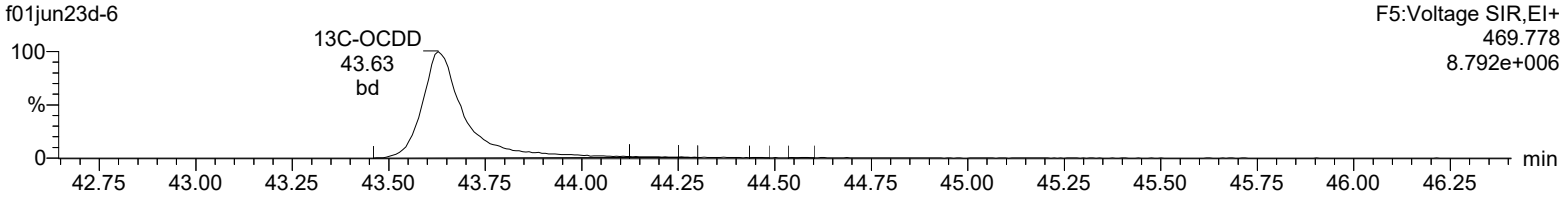
OCDF



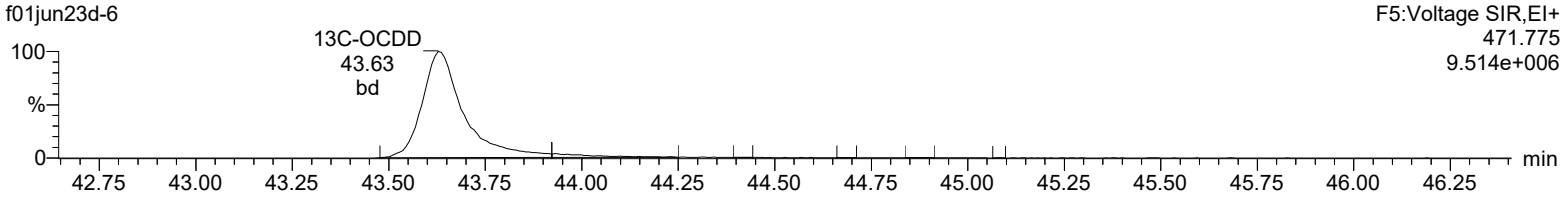
OCDF



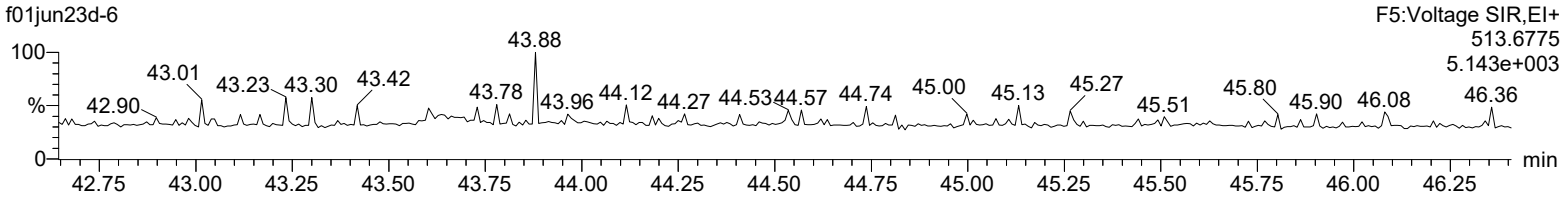
13C-OCDD



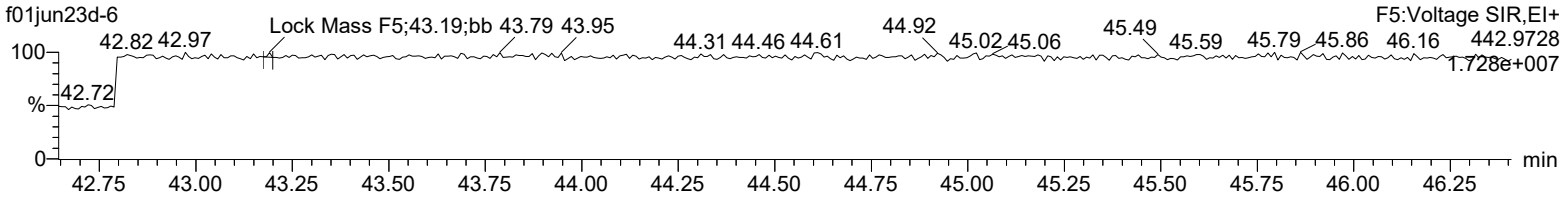
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:51 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	4.68e5	5.58e5	1.03e6	30.83	1.000	0.84	NO	40.895	1.124	1.100	5.89	0.0650	5.52e6	3152	1751.2	6.59e6	3048	2162.8	bd	bb
2	12378-PeCDD	2.45e6	1.49e6	3.94e6	33.88	1.000	1.65	NO	206.875	1.204	1.164	4.32	0.179	4.83e7	13987	3454.3	2.91e7	7872	3695.9	bb	bb
3	123478-HxCDD	1.78e6	1.40e6	3.18e6	36.39	1.000	1.27	NO	207.126	1.111	1.073	4.27	0.271	3.20e7	13737	2332.9	2.53e7	10047	2521.7	bd	dd
4	123678-HxCDD	2.10e6	1.63e6	3.73e6	36.48	1.000	1.29	NO	209.874	1.117	1.064	5.73	0.254	3.35e7	13737	2439.2	2.61e7	10047	2596.0	dd	dd
5	123789-HxCDD	1.95e6	1.53e6	3.48e6	36.71	1.007	1.27	NO	210.570	1.123	1.066	6.89	0.263	2.85e7	13737	2073.8	2.22e7	10047	2210.8	dd	dd
6	1234678-HpCDD	1.77e6	1.62e6	3.38e6	39.63	1.000	1.10	NO	214.270	1.316	1.228	7.21	0.653	2.06e7	25069	819.9	1.93e7	15600	1239.6	bb	bd
7	OCDD	2.39e6	2.60e6	4.99e6	43.65	1.000	0.92	NO	426.920	1.182	1.107	6.02	0.933	2.15e7	12123	1775.2	2.38e7	20604	1156.6	bd	bd
8	2378-TCDF	8.77e5	1.07e6	1.95e6	29.94	1.001	0.82	NO	41.340	1.398	1.352	4.83	0.118	8.11e6	6942	1168.9	1.02e7	10040	1012.2	bb	bd
9	12378-PeCDF	5.79e6	3.53e6	9.33e6	33.08	1.000	1.64	NO	210.607	1.341	1.274	6.94	0.205	1.17e8	37071	3161.2	7.18e7	21846	3286.6	bd	bd
10	23478-PeCDF	5.90e6	3.63e6	9.53e6	33.69	1.000	1.63	NO	207.944	1.450	1.394	4.15	0.190	1.19e8	37071	3206.9	7.25e7	21846	3316.9	bb	bb
11	123478-HxCDF	3.63e6	2.61e6	6.24e6	35.70	1.000	1.39	NO	204.791	1.452	1.418	4.11	0.456	6.44e7	43109	1492.8	4.78e7	38489	1241.7	bd	bd
12	123678-HxCDF	4.15e6	3.25e6	7.40e6	35.79	1.000	1.28	NO	206.904	1.426	1.378	4.15	0.414	6.97e7	43109	1616.7	5.21e7	38489	1353.4	db	db
13	234678-HxCDF	3.77e6	2.85e6	6.62e6	36.26	1.000	1.32	NO	213.776	1.520	1.422	5.96	0.473	6.47e7	43109	1500.0	4.89e7	38489	1269.3	bd	bb
14	123789-HxCDF	3.03e6	2.28e6	5.31e6	37.00	1.000	1.33	NO	208.623	1.358	1.302	5.43	0.725	4.12e7	43109	954.9	3.11e7	38489	807.6	bb	bb
15	1234678-HpCDF	3.69e6	3.48e6	7.17e6	38.42	1.000	1.06	NO	203.717	1.410	1.384	4.56	0.498	5.07e7	37116	1365.5	4.84e7	39680	1218.6	bb	bb
16	1234789-HpCDF	3.05e6	2.77e6	5.82e6	40.27	1.000	1.10	NO	217.547	1.483	1.364	8.52	0.791	3.20e7	37116	863.3	3.02e7	39680	761.5	bd	bb
17	OCDF	4.23e6	4.55e6	8.78e6	43.94	1.007	0.93	NO	474.318	2.078	1.752	16.82	0.811	3.76e7	16122	2335.1	3.92e7	28896	1357.6	bd	bd
18	13C-2378-TCDD	1.01e6	1.27e6	2.28e6	30.82	1.023	0.80	NO	99.560	1.134	1.139	2.81	0.166	1.15e7	7112	1621.7	1.45e7	5251	2758.9	bd	bd
19	13C-12378-PeCDD	1.01e6	6.25e5	1.64e6	33.86	1.124	1.62	NO	99.966	0.813	0.813	6.11	0.185	1.95e7	5725	3403.1	1.20e7	4132	2892.6	bb	bb
20	13C-123478-HxCDD	8.01e5	6.30e5	1.43e6	36.38	0.991	1.27	NO	104.279	0.884	0.847	3.44	0.306	1.37e7	9290	1477.5	1.10e7	10291	1066.7	bd	bd
21	13C-123678-HxCDD	9.34e5	7.35e5	1.67e6	36.47	0.994	1.27	NO	100.302	1.030	1.027	0.98	0.253	1.48e7	9290	1587.8	1.17e7	10291	1136.9	dd	dd
22	13C-1234678-HpCDD	6.66e5	6.20e5	1.29e6	39.62	1.080	1.08	NO	99.201	0.794	0.800	2.20	0.420	7.88e6	12212	645.2	7.39e6	13180	560.8	bb	bd
23	13C-OCDD	9.86e5	1.13e6	2.11e6	43.64	1.189	0.88	NO	199.840	0.652	0.653	4.31	0.496	8.87e6	13108	676.8	9.75e6	11326	860.8	bd	bd
24	13C-2378-TCDF	1.54e6	1.95e6	3.49e6	29.91	0.993	0.79	NO	100.003	1.734	1.734	1.52	0.142	1.41e7	7065	1998.0	1.73e7	9048	1914.9	bb	bd
25	13C-12378-PeCDF	2.18e6	1.29e6	3.48e6	33.07	1.097	1.69	NO	100.458	1.727	1.719	3.99	0.444	4.26e7	26029	1638.3	2.60e7	23988	1083.9	bd	bd
26	13C-23478-PeCDF	2.05e6	1.23e6	3.29e6	33.68	1.118	1.67	NO	100.822	1.632	1.619	7.01	0.471	4.17e7	26029	1602.7	2.45e7	23988	1019.9	bb	bb
27	13C-123478-HxCDF	7.56e5	1.39e6	2.15e6	35.69	0.973	0.54	NO	102.769	1.327	1.291	3.13	0.361	1.33e7	17884	745.3	2.41e7	17337	1389.6	bd	bd
28	13C-123678-HxCDF	9.26e5	1.67e6	2.60e6	35.78	0.975	0.55	NO	100.247	1.602	1.598	1.73	0.292	1.53e7	17884	856.5	2.79e7	17337	1607.2	dd	db
29	13C-234678-HxCDF	7.78e5	1.40e6	2.18e6	36.25	0.988	0.56	NO	100.495	1.344	1.338	1.29	0.349	1.30e7	17884	726.9	2.42e7	17337	1398.6	bb	bb
30	13C-123789-HxCDF	6.90e5	1.26e6	1.95e6	37.00	1.008	0.55	NO	101.332	1.206	1.190	2.59	0.392	9.17e6	17884	512.7	1.68e7	17337	969.1	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:51 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	8.08e5	1.73e6	2.54e6	38.41	1.047	0.47	NO	102.141	1.570	1.537	2.02	0.360	1.06e7	19223	553.2	2.30e7	22541	1019.2	bd	bd
32	13C-1234789-HpCDF	6.08e5	1.35e6	1.96e6	40.26	1.097	0.45	NO	101.082	1.211	1.198	2.23	0.462	6.62e6	19223	344.4	1.42e7	22541	628.9	bb	bd
33	13C-1234-TCDD	9.02e5	1.11e6	2.01e6	30.13	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.189	8.80e6	7112	1237.7	1.05e7	5251	2006.0	bb	bb
34	13C-123789-HxCDD	9.05e5	7.15e5	1.62e6	36.69	0.000	1.26	NO	100.000	1.000	1.000	0.00	0.259	1.26e7	9290	1360.9	9.83e6	10291	954.9	dd	dd
35	37Cl-2378-TCDD	9.33e5		9.33e5	30.83	1.023			41.219	1.158	1.124	6.42	0.0343	1.10e7	2523	4358.1				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

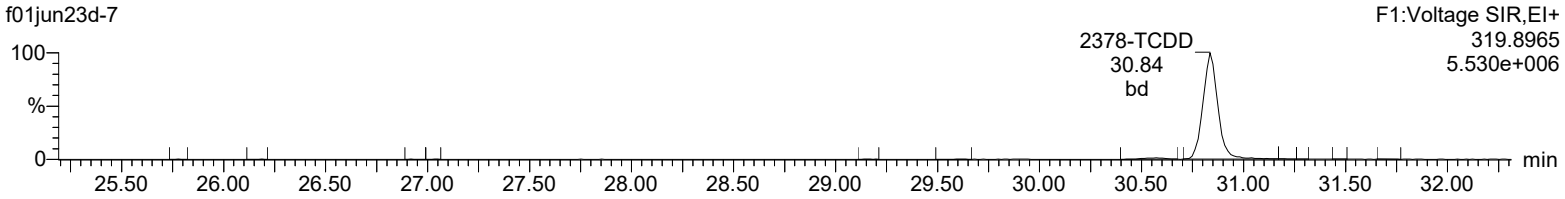
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

06/06/2023

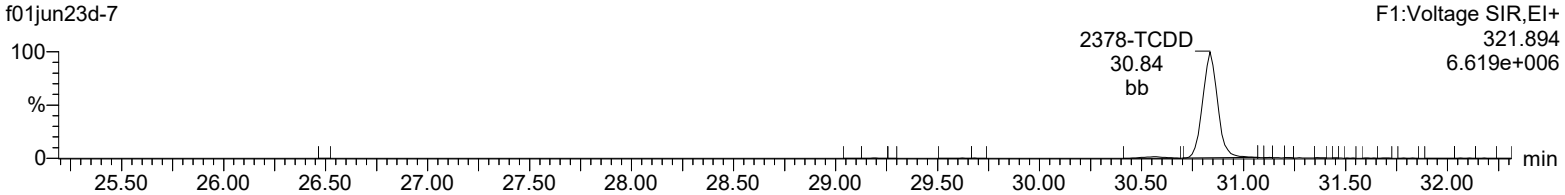
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

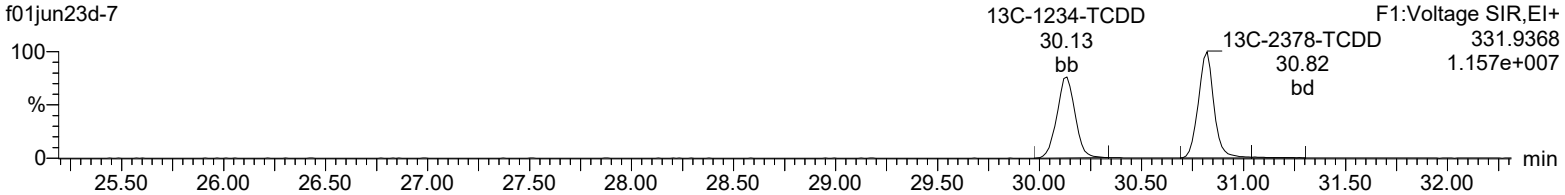
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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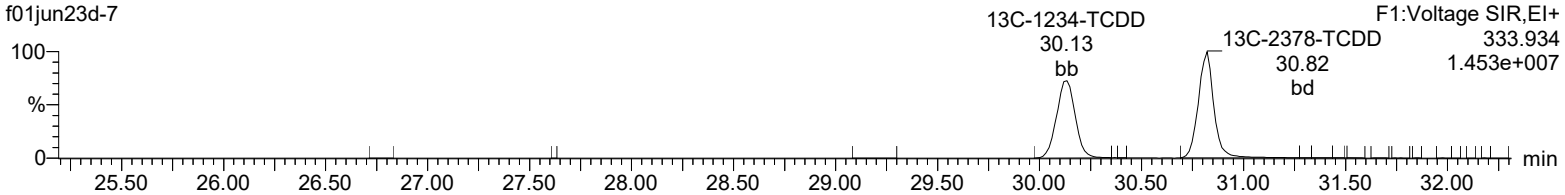

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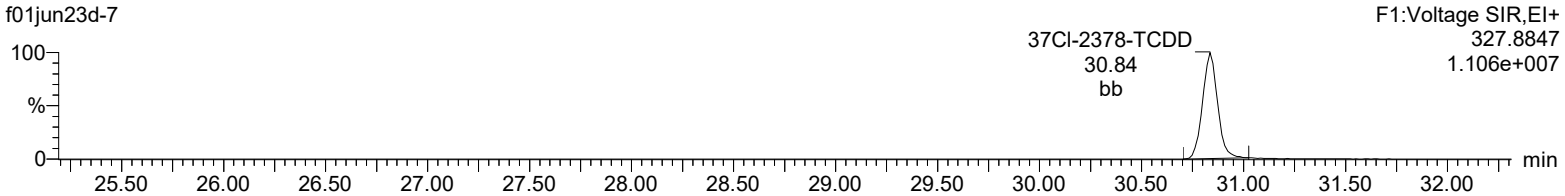
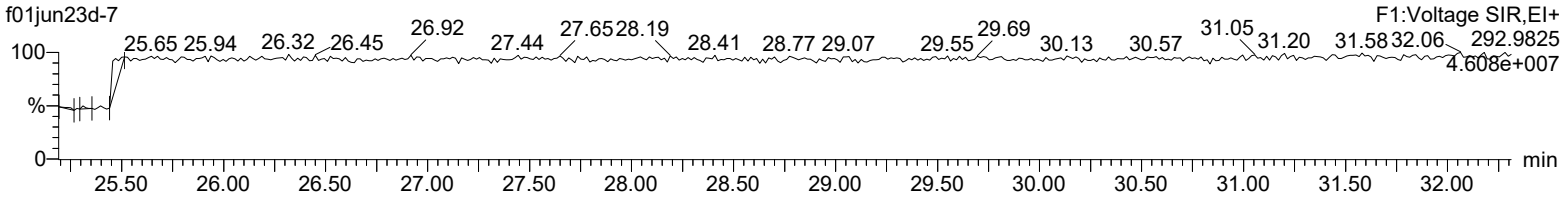


Lock Mass F1



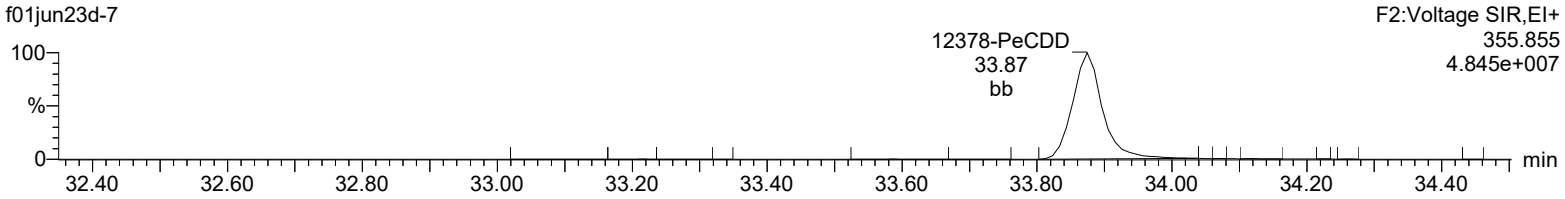
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

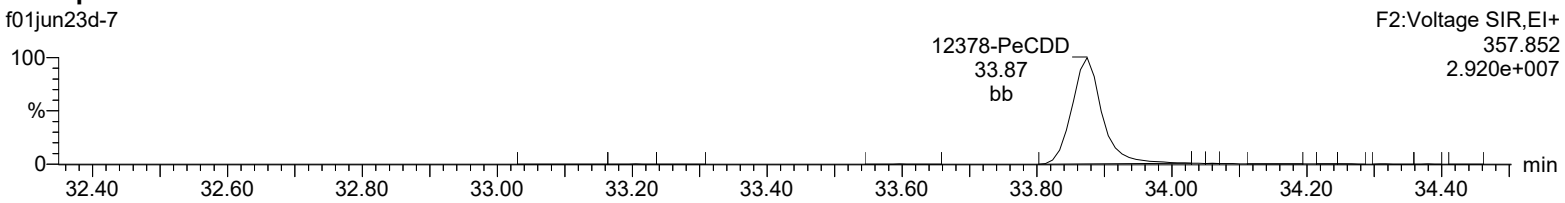
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

Total-pentadioxins



Total-pentadioxins



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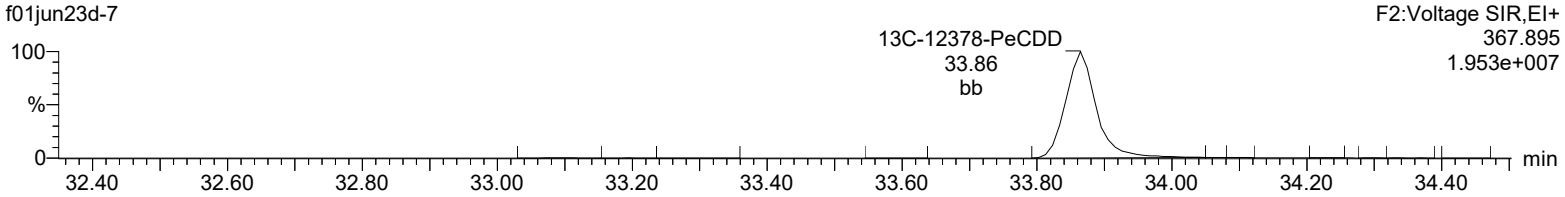

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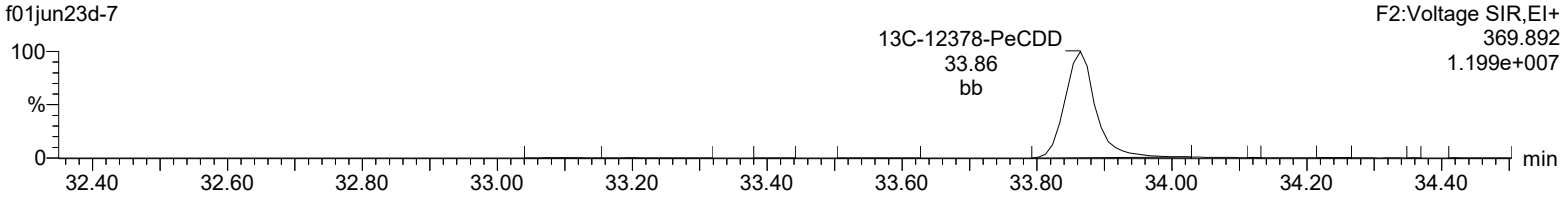
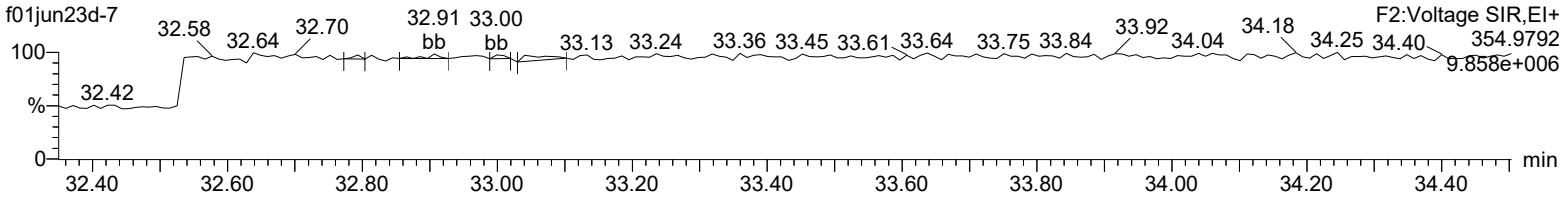


Lock Mass F2



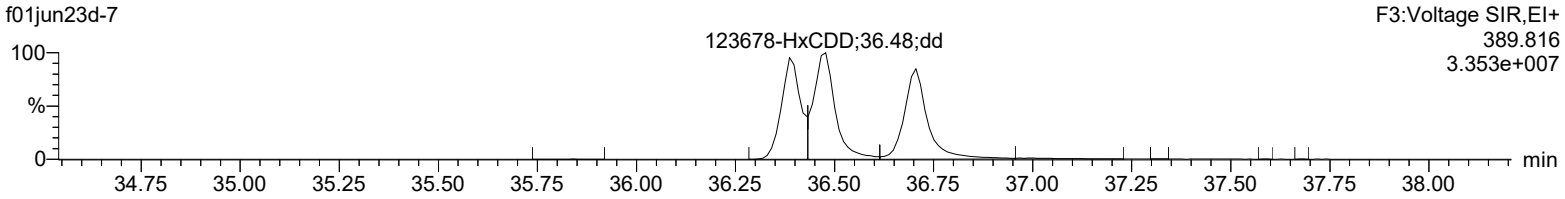
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

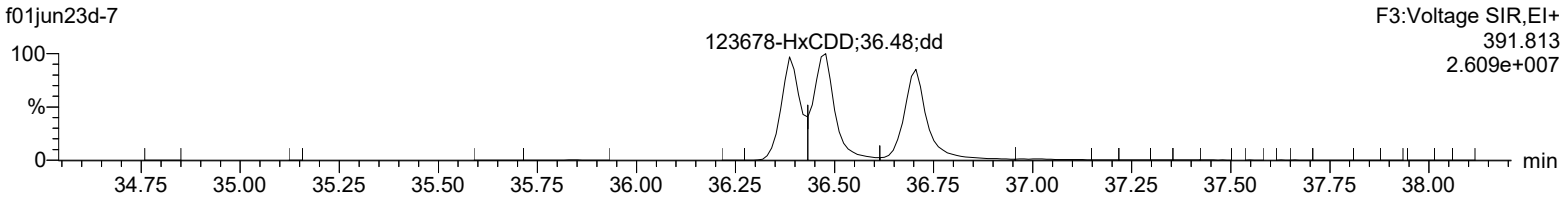
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

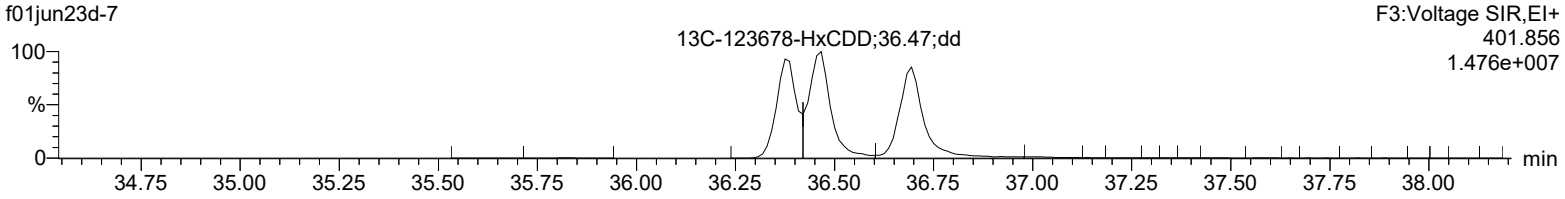
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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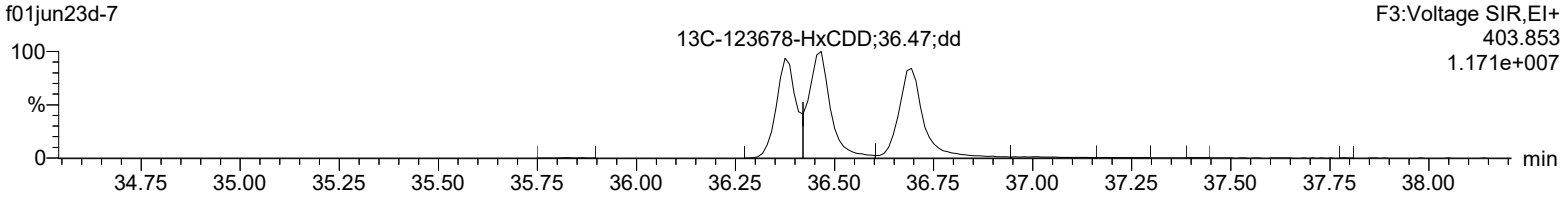
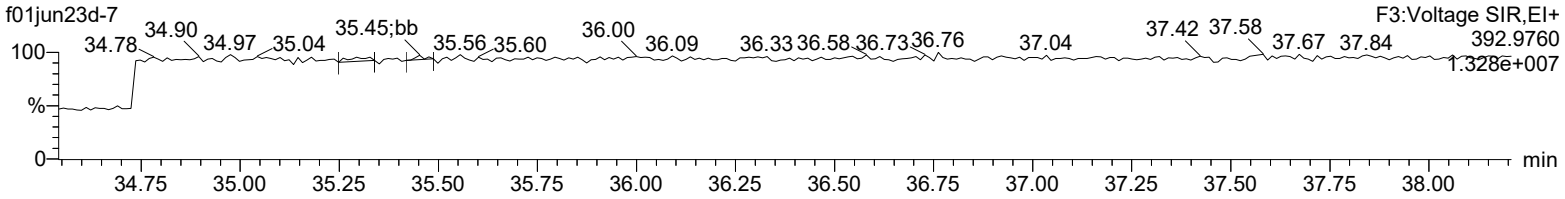


Lock Mass F3



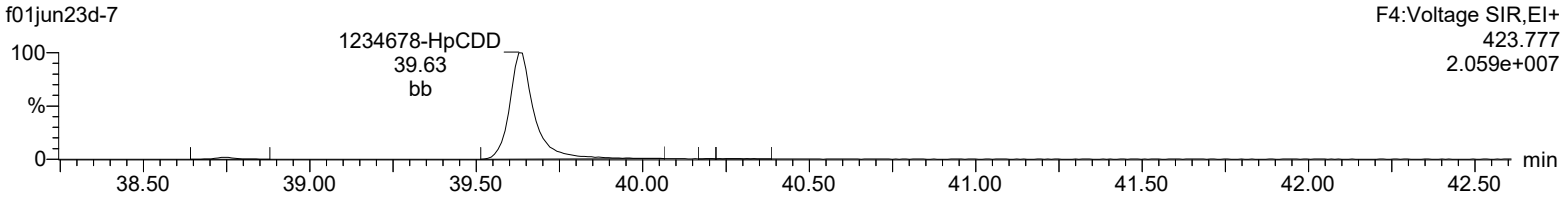
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

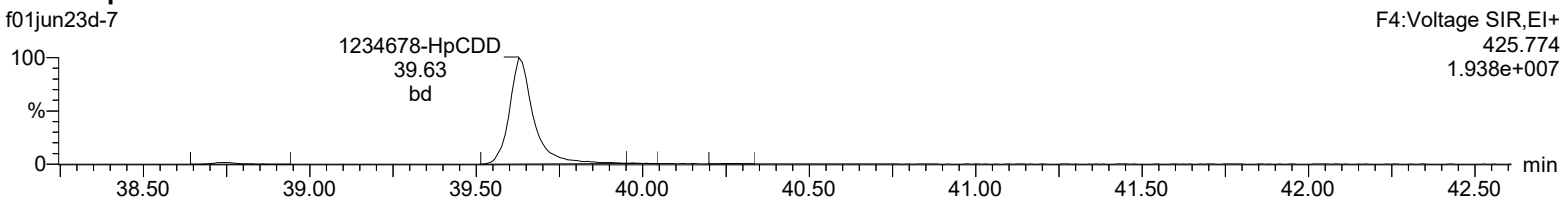
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

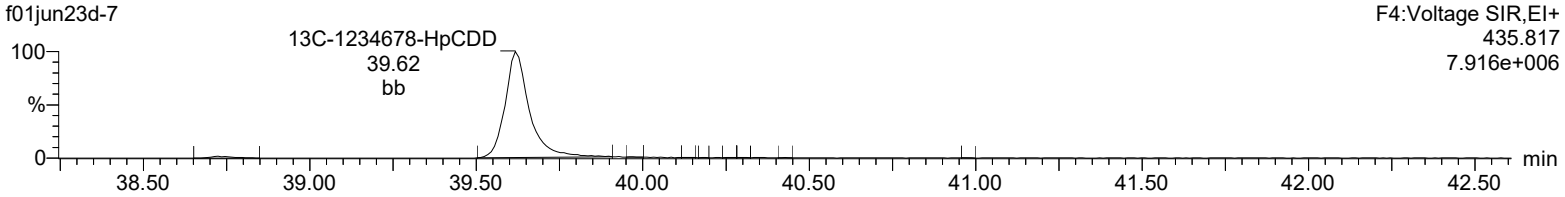
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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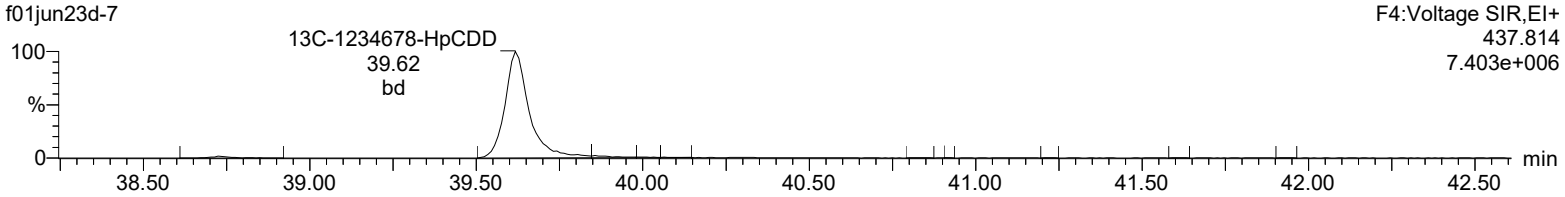
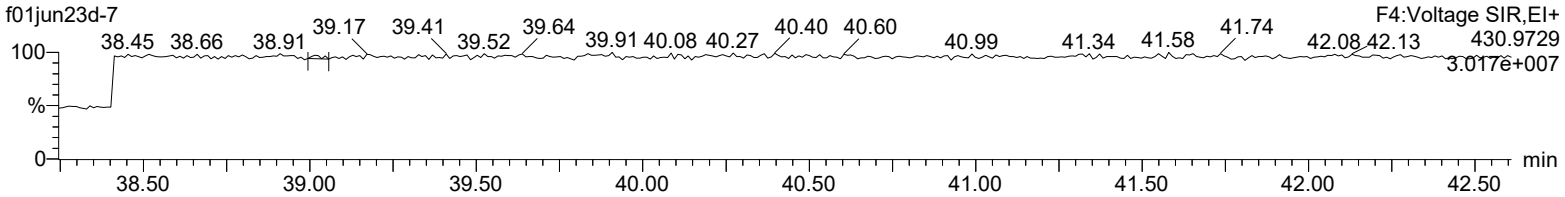


Lock Mass F4



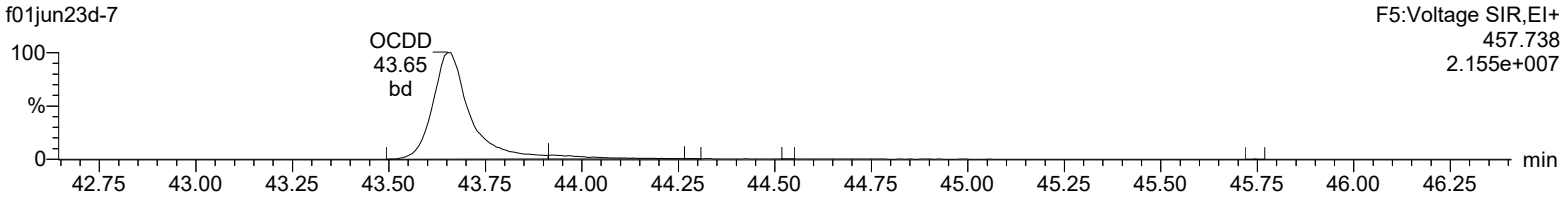
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

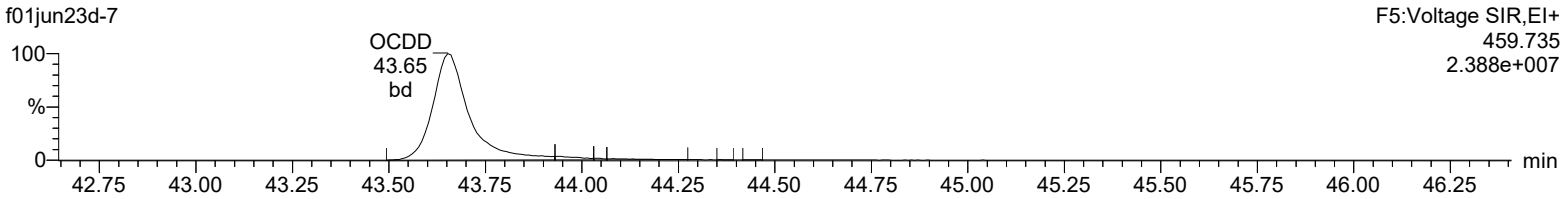
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

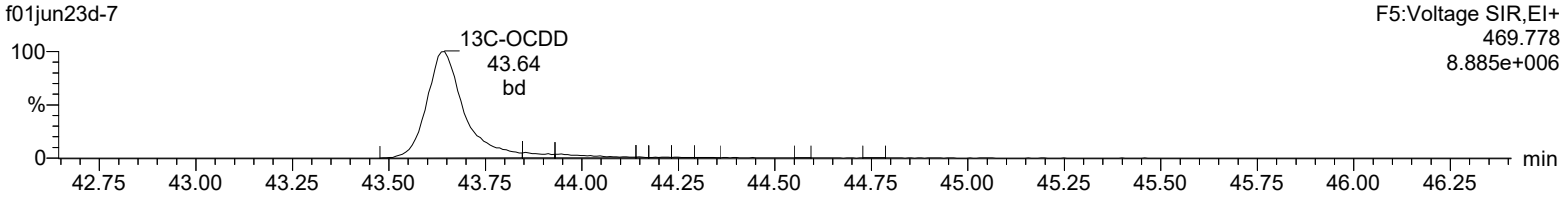
OCDD



OCDD



13C-OCDD



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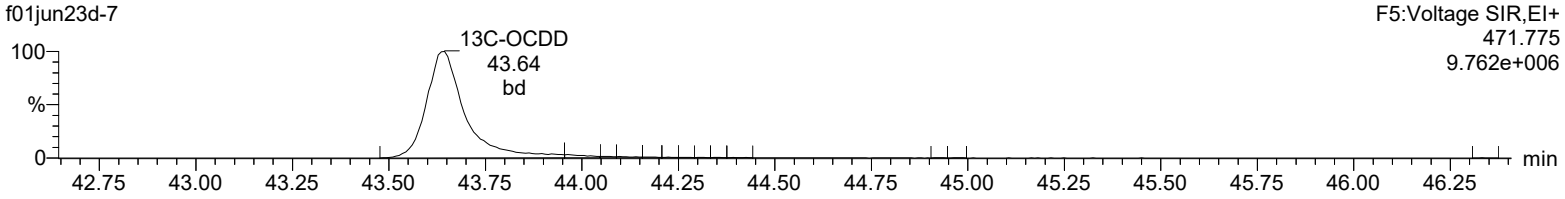
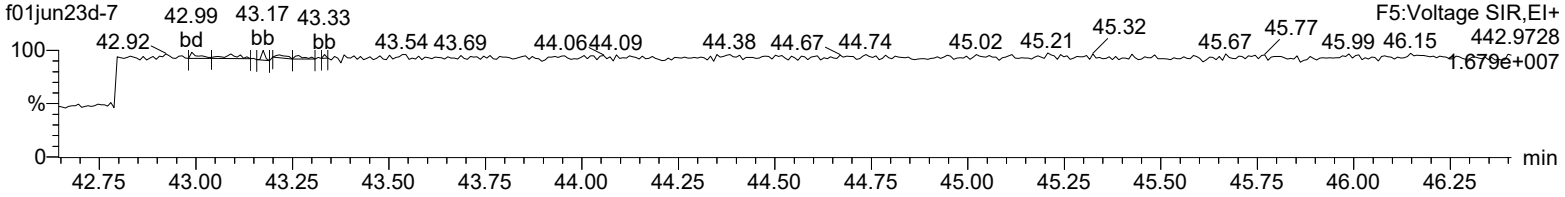


Lock Mass F5



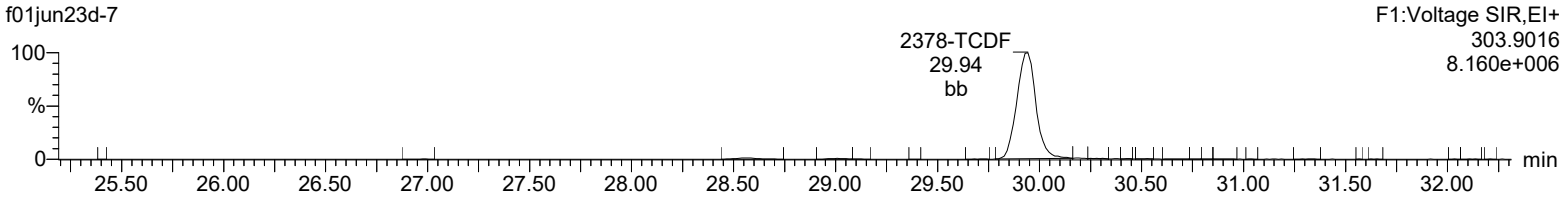
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

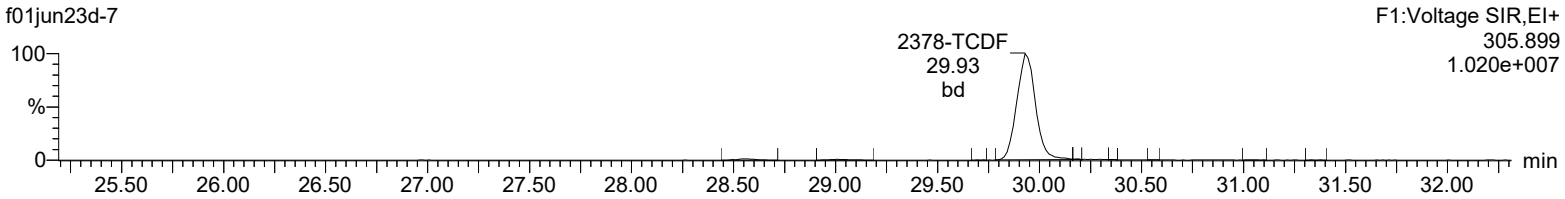
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

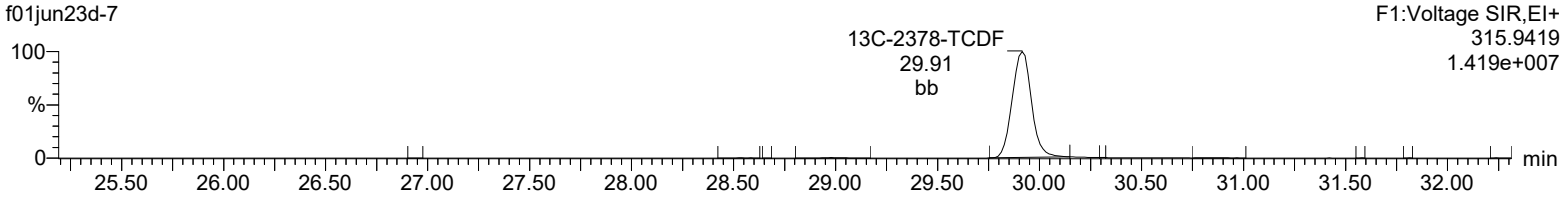
Total-tetrafurans



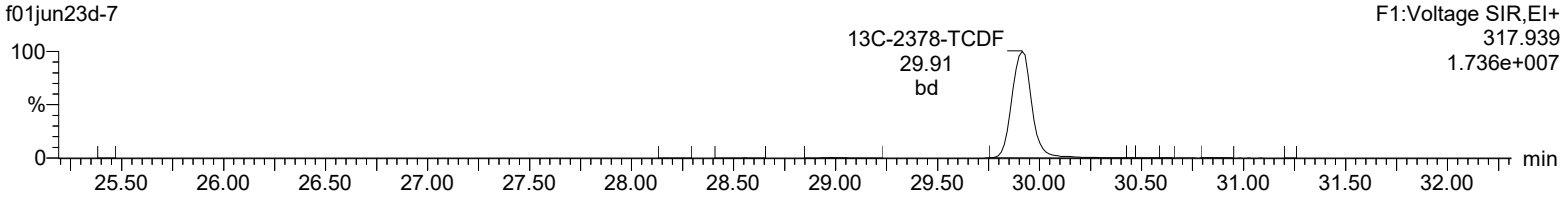
Total-tetrafurans



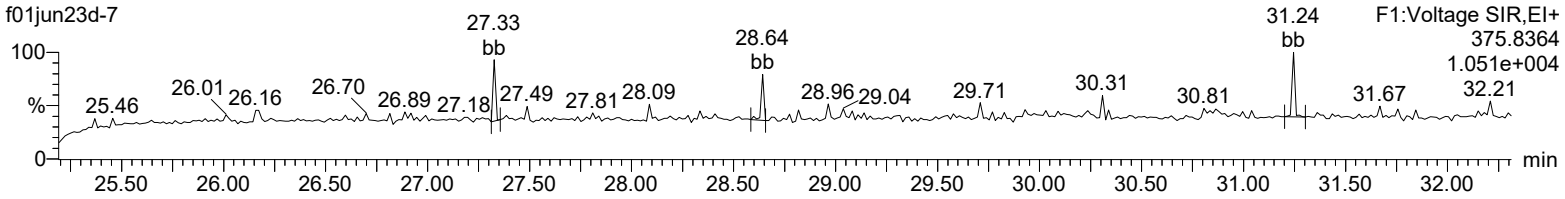
13C-2378-TCDF



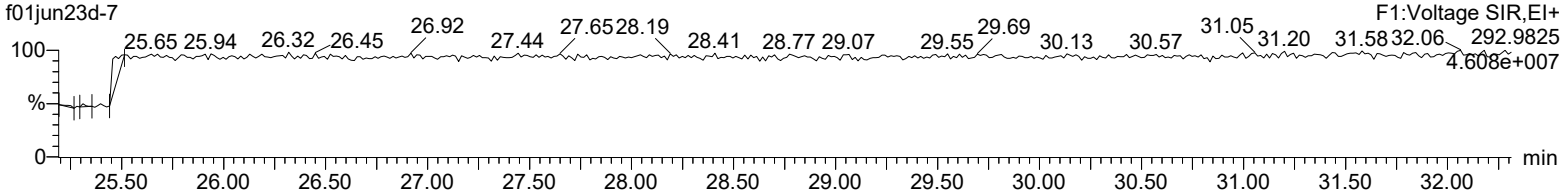
13C-2378-TCDF



HxDPE



Lock Mass F1



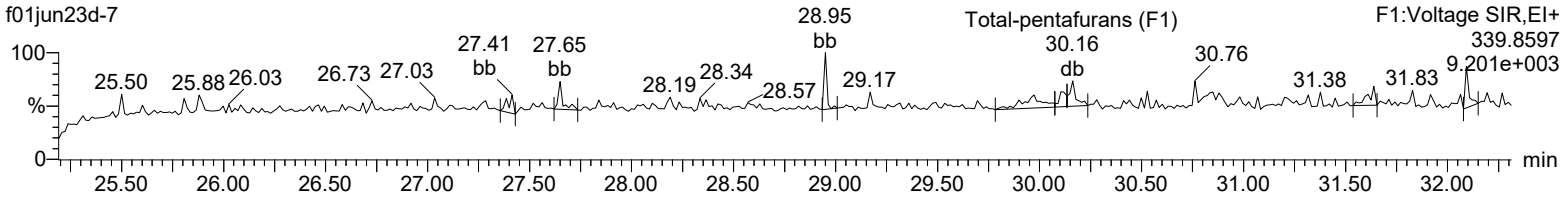
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

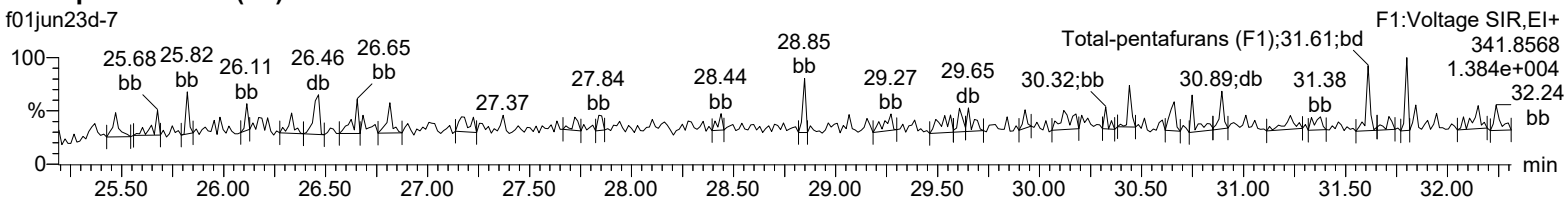
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

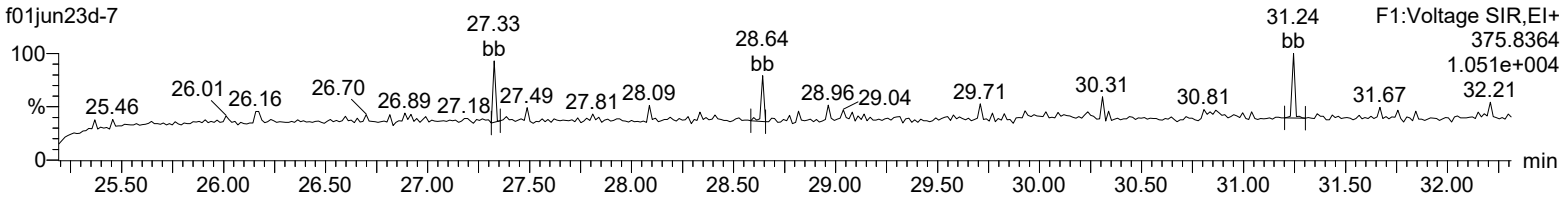
Total-pentafurans (F1)



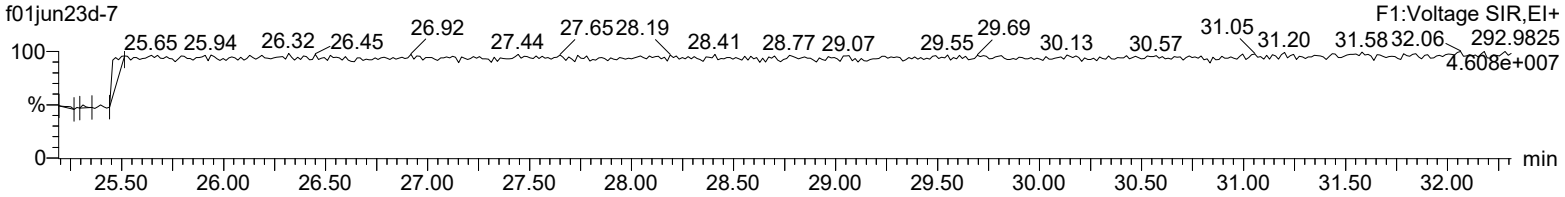
Total-pentafurans (F1)



HxDPE



Lock Mass F1



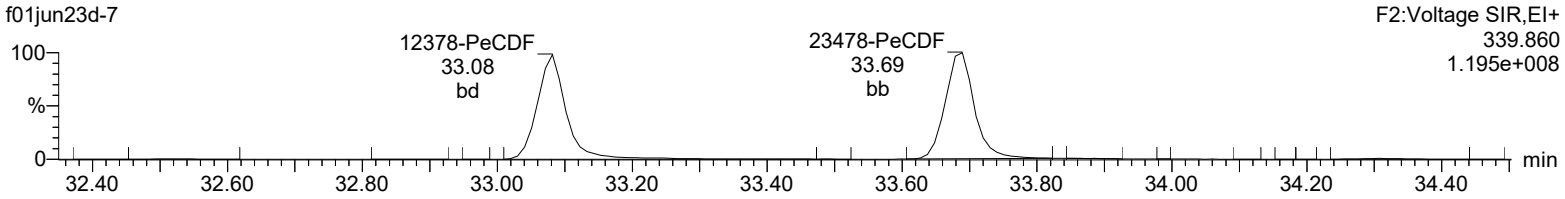
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

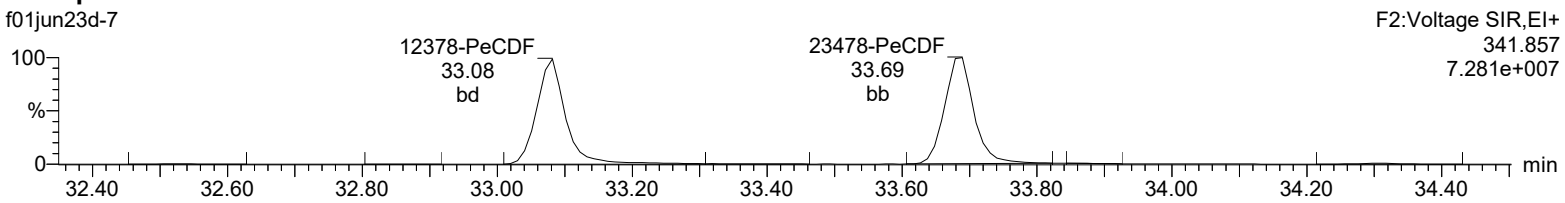
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

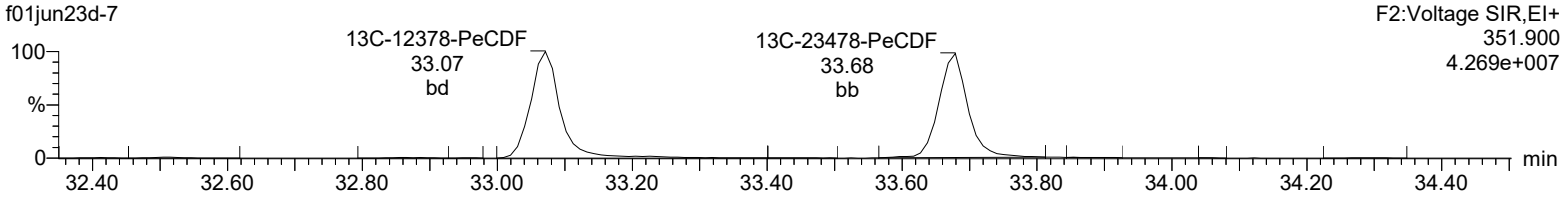
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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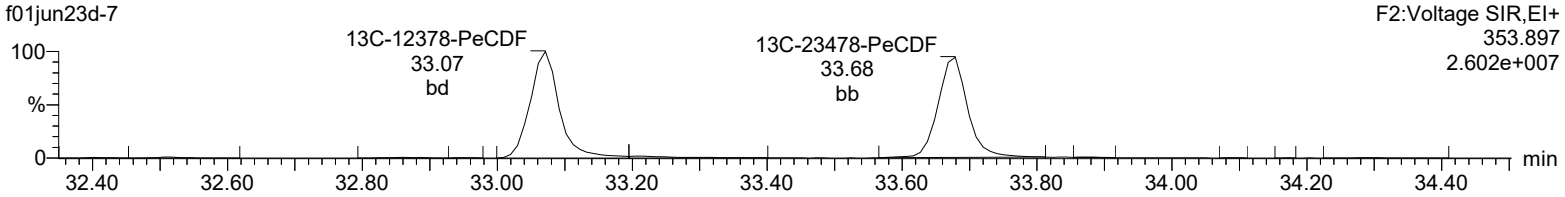
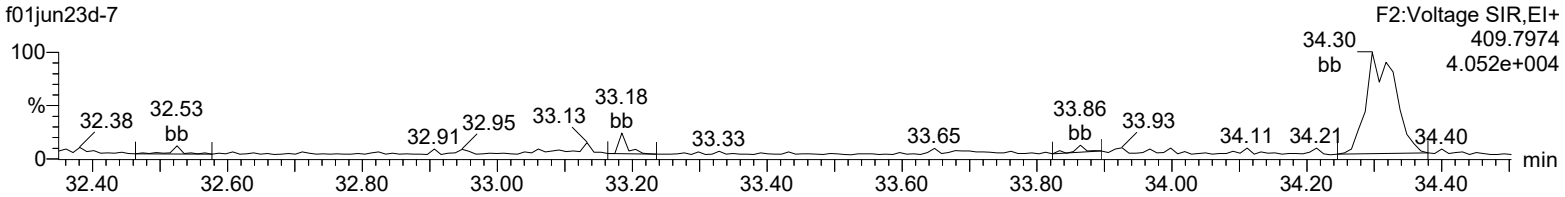
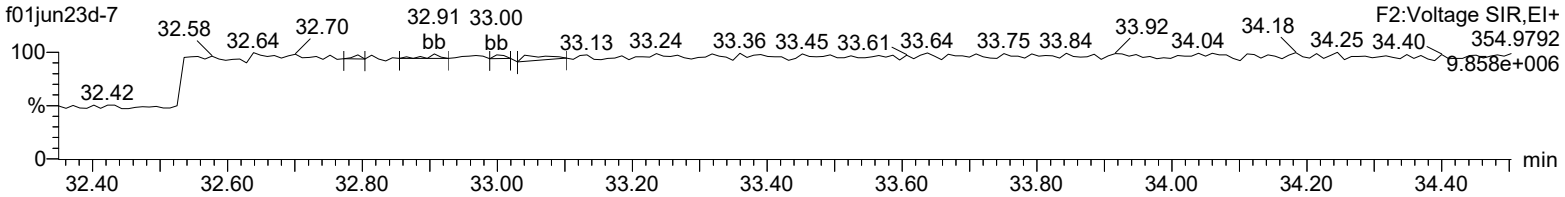


HpDPE



Lock Mass F2



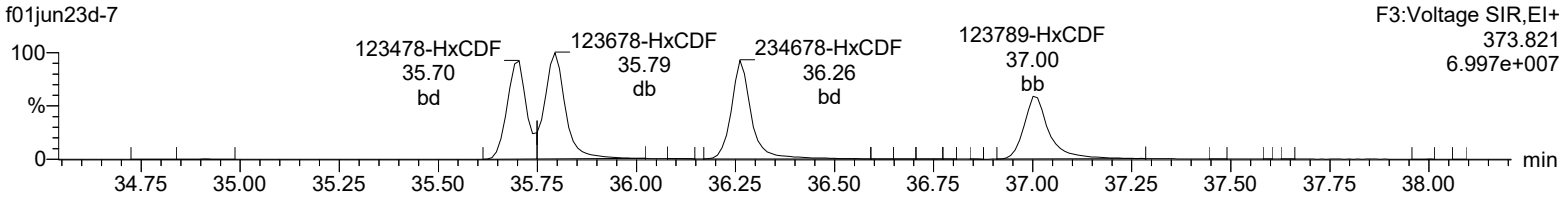
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

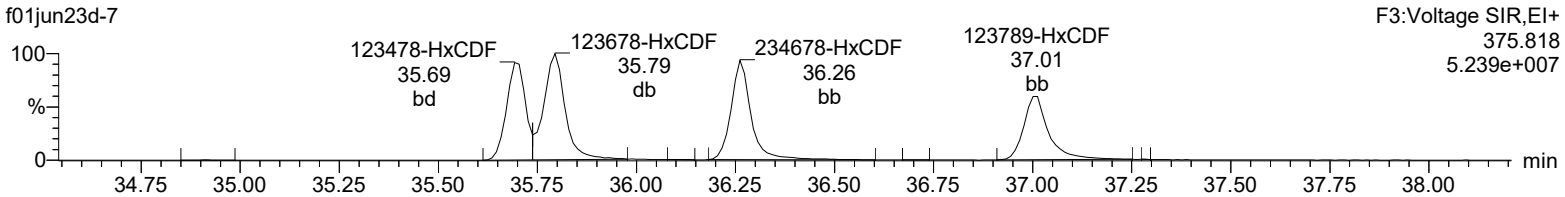
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

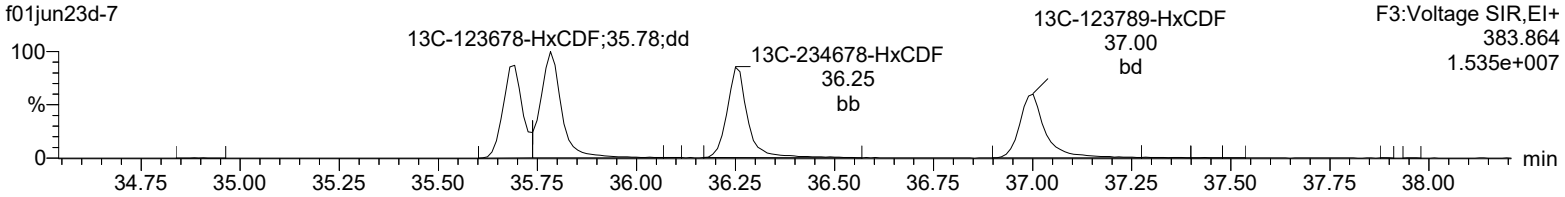
Total-hexafurans



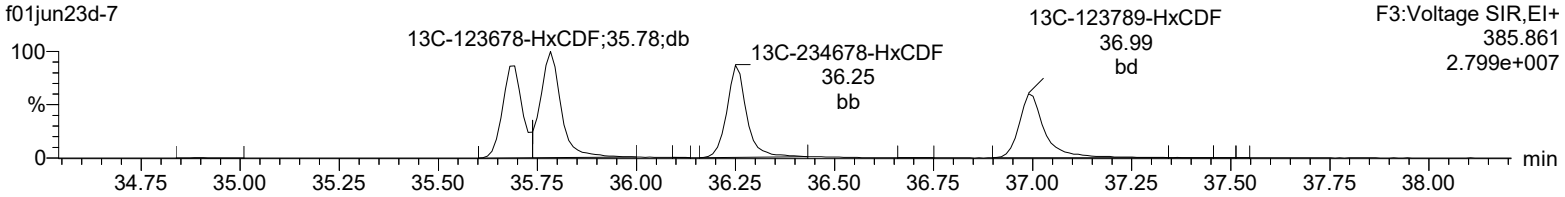
Total-hexafurans



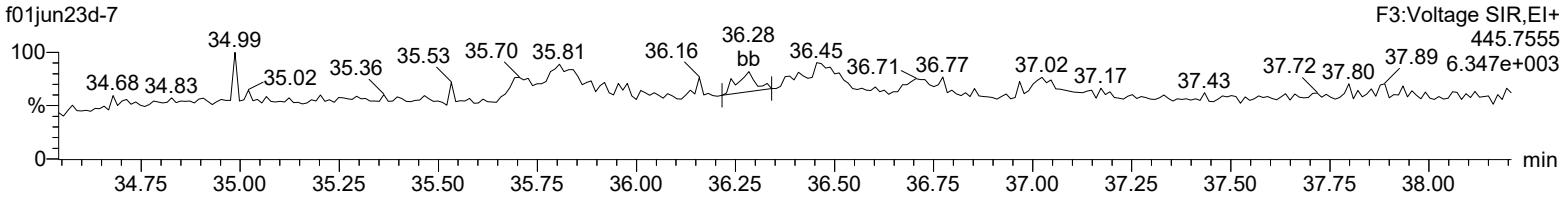
13C-123478-HxCDF



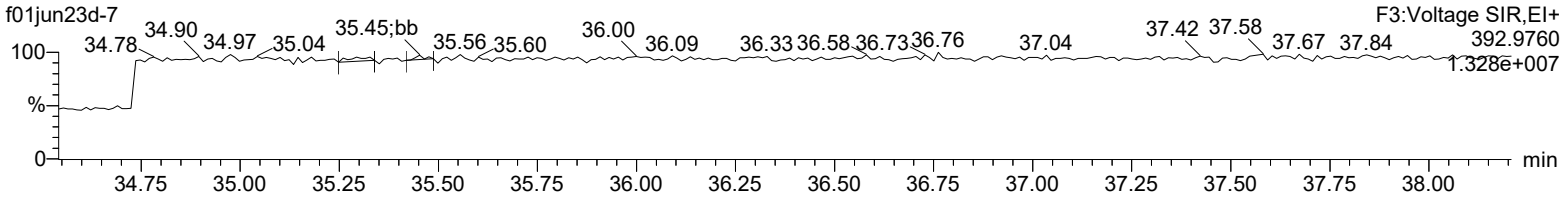
13C-123478-HxCDF



OcDPE



Lock Mass F3



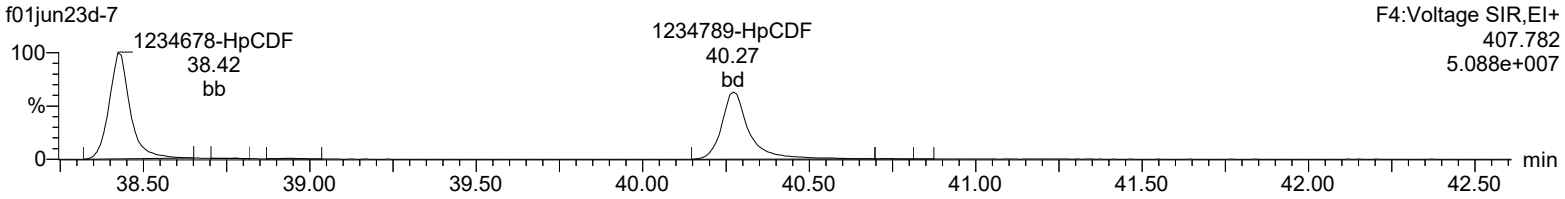
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

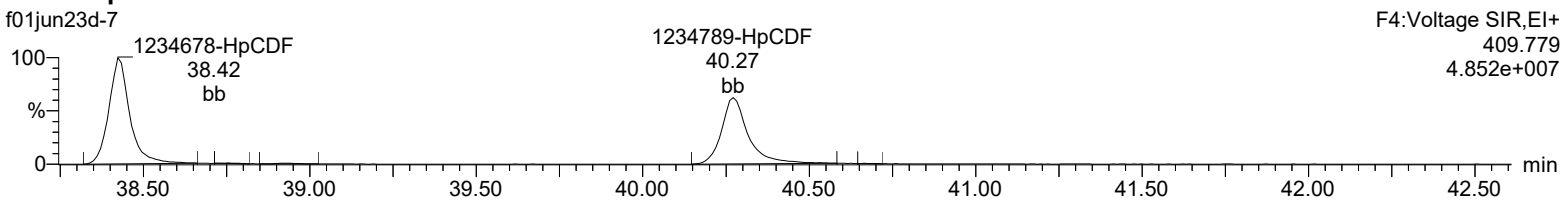
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

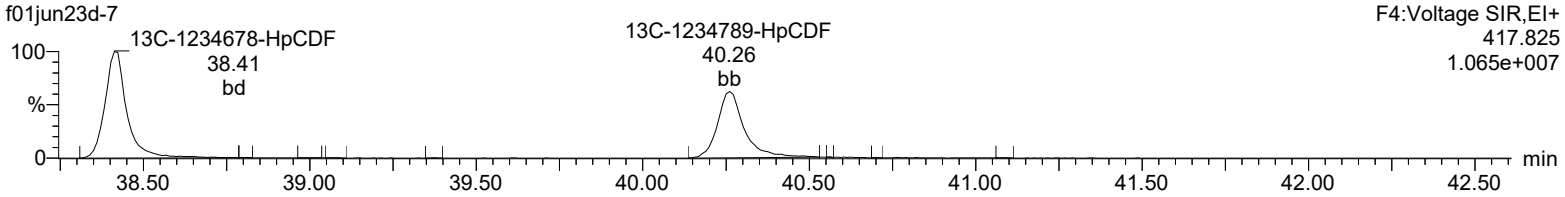
Total-heptafurans



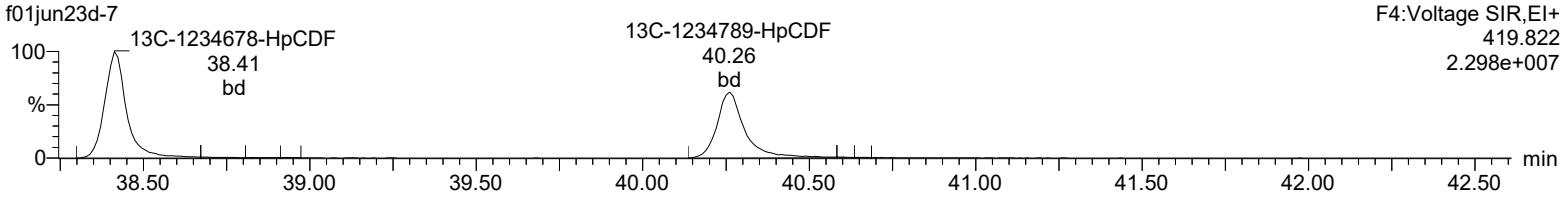
Total-heptafurans



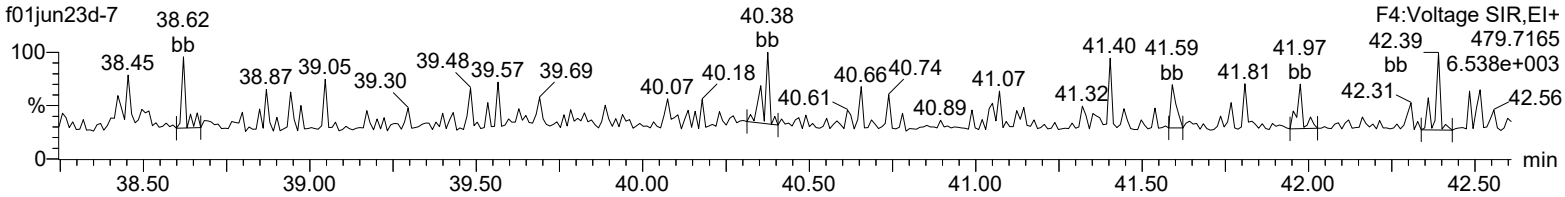
13C-1234678-HpCDF



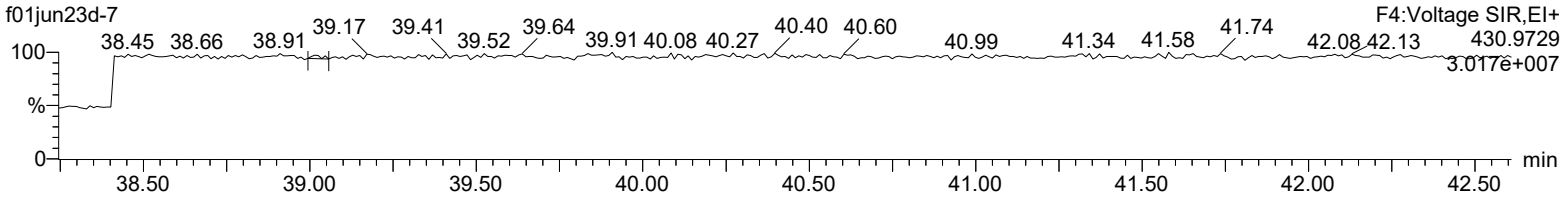
13C-1234678-HpCDF



NoDPE



Lock Mass F4



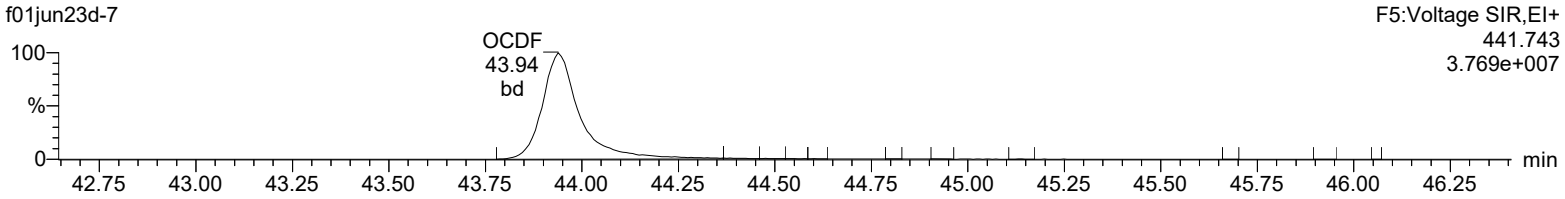
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

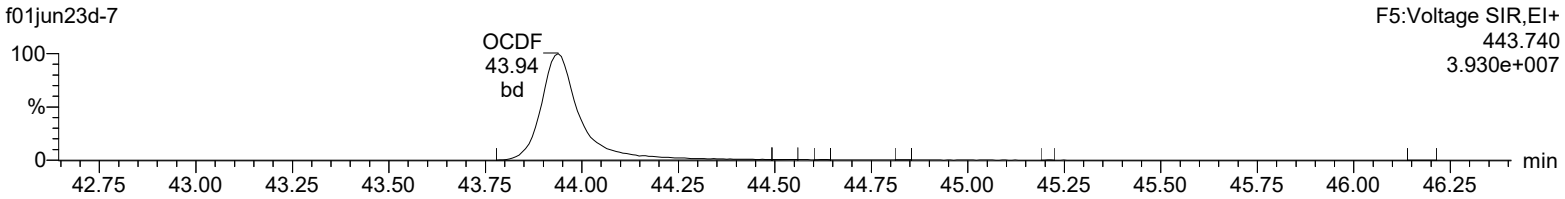
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

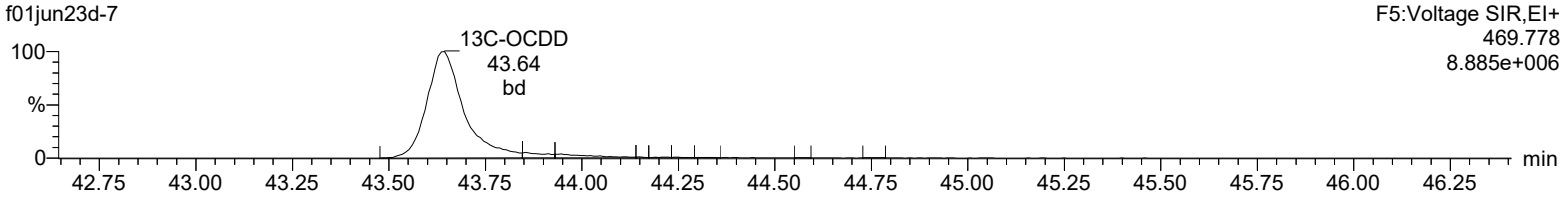
OCDF



OCDF



13C-OCDD



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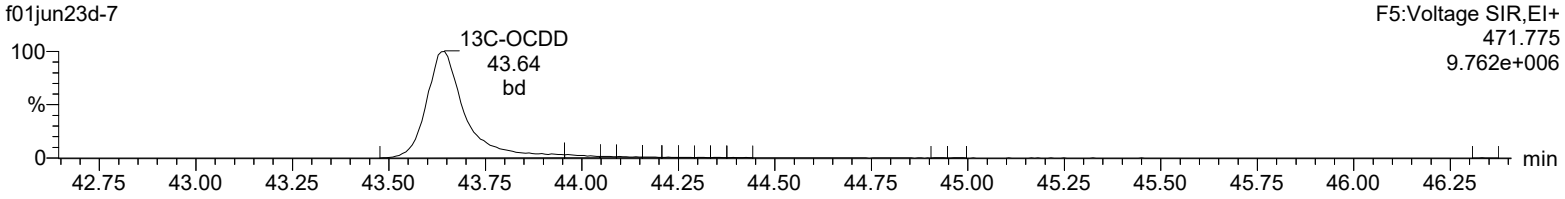
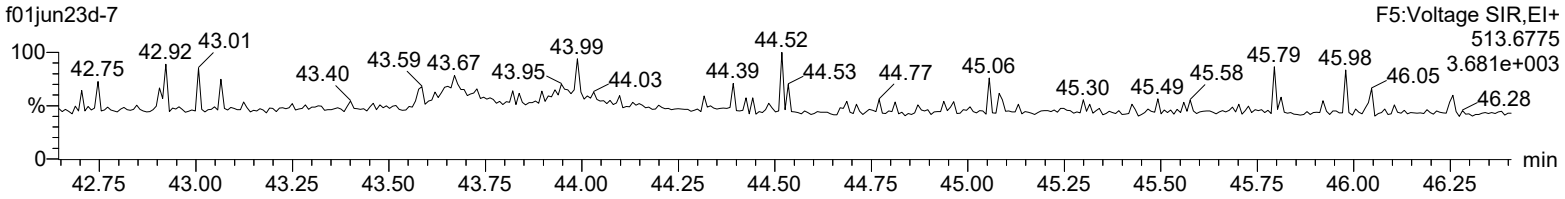
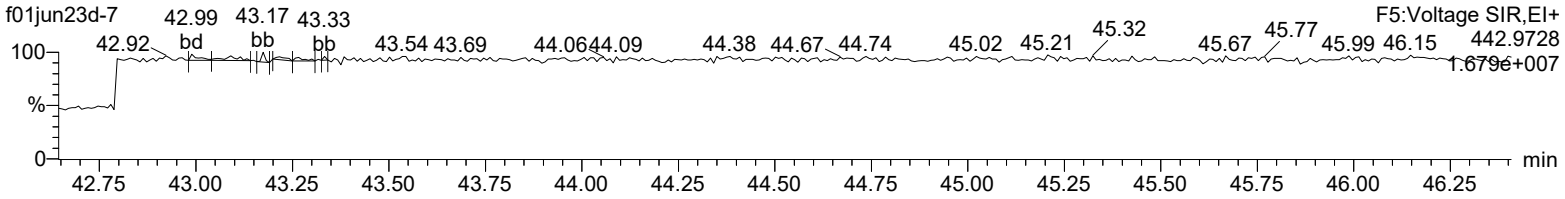


DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:59 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	2.90e6	3.58e6	6.48e6	30.82	1.000	0.81	NO	211.450	1.163	1.100	5.89	0.0788	3.55e7	7018	5061.3	4.45e7	2865	15523.4	bb	bb
2	12378-PeCDD	1.56e7	9.71e6	2.53e7	33.86	1.000	1.61	NO	1028.146	1.197	1.164	4.32	0.240	3.43e8	19365	17727.0	2.11e8	23323	9048.2	bb	bb
3	123478-HxCDD	1.16e7	9.05e6	2.07e7	36.39	1.000	1.28	NO	1037.193	1.112	1.073	4.27	0.336	2.16e8	22125	9746.4	1.68e8	18210	9217.4	bd	bd
4	123678-HxCDD	1.36e7	1.06e7	2.42e7	36.47	1.000	1.28	NO	1052.031	1.120	1.064	5.73	0.316	2.28e8	22125	10284.7	1.79e8	18210	9830.0	dd	dd
5	123789-HxCDD	1.27e7	9.94e6	2.27e7	36.69	1.007	1.28	NO	1057.720	1.128	1.066	6.89	0.326	2.05e8	22125	9256.6	1.61e8	18210	8821.9	dd	dd
6	1234678-HpCDD	1.15e7	1.05e7	2.20e7	39.63	1.000	1.09	NO	1042.965	1.281	1.228	7.21	0.832	1.56e8	41168	3779.4	1.42e8	33961	4179.9	bb	bb
7	OCDD	1.65e7	1.78e7	3.43e7	43.66	1.000	0.92	NO	2107.450	1.167	1.107	6.02	0.986	1.65e8	26864	6125.3	1.78e8	25879	6862.7	bd	bd
8	2378-TCDF	5.35e6	6.50e6	1.18e7	29.91	1.000	0.82	NO	211.795	1.432	1.352	4.83	0.123	5.40e7	11795	4582.3	6.59e7	11684	5638.7	bb	bb
9	12378-PeCDF	3.73e7	2.28e7	6.00e7	33.07	1.000	1.64	NO	1097.924	1.399	1.274	6.94	0.347	7.91e8	77219	10245.2	4.83e8	59248	8154.7	bd	bb
10	23478-PeCDF	3.83e7	2.34e7	6.17e7	33.68	1.000	1.63	NO	1037.829	1.447	1.394	4.15	0.314	8.17e8	77219	10574.5	5.03e8	59248	8490.1	bb	bb
11	123478-HxCDF	2.39e7	1.82e7	4.20e7	35.69	1.000	1.31	NO	1055.767	1.497	1.418	4.11	0.317	4.61e8	48330	9536.7	3.51e8	34375	10204.7	bd	bd
12	123678-HxCDF	2.66e7	2.02e7	4.69e7	35.78	1.000	1.32	NO	1039.777	1.433	1.378	4.15	0.317	4.80e8	48330	9931.0	3.70e8	34375	10771.1	db	db
13	234678-HxCDF	2.46e7	1.85e7	4.31e7	36.26	1.000	1.33	NO	1062.737	1.511	1.422	5.96	0.361	4.24e8	48330	8765.5	3.18e8	34375	9257.0	bd	bd
14	123789-HxCDF	2.01e7	1.53e7	3.53e7	37.00	1.000	1.32	NO	1070.509	1.394	1.302	5.43	0.489	3.13e8	48330	6468.9	2.39e8	34375	6951.1	bb	bb
15	1234678-HpCDF	2.41e7	2.26e7	4.67e7	38.42	1.000	1.07	NO	1060.446	1.468	1.384	4.56	0.625	3.66e8	73371	4988.6	3.40e8	63822	5323.3	bb	bb
16	1234789-HpCDF	1.96e7	1.81e7	3.77e7	40.26	1.000	1.09	NO	1077.434	1.469	1.364	8.52	0.952	2.45e8	73371	3335.8	2.26e8	63822	3534.1	bb	bb
17	OCDF	2.93e7	3.14e7	6.07e7	43.95	1.007	0.94	NO	2356.775	2.065	1.752	16.82	0.836	3.06e8	30372	10059.4	3.26e8	40358	8088.1	bb	bb
18	13C-2378-TCDD	1.24e6	1.55e6	2.79e6	30.81	1.023	0.80	NO	105.346	1.200	1.139	2.81	0.142	1.52e7	7888	1929.5	1.88e7	4876	3848.0	bb	bb
19	13C-12378-PeCDD	1.30e6	8.16e5	2.11e6	33.85	1.124	1.59	NO	111.887	0.910	0.813	6.11	0.210	2.82e7	7462	3776.1	1.79e7	6079	2949.2	bb	bb
20	13C-123478-HxCDD	1.04e6	8.12e5	1.86e6	36.38	0.992	1.29	NO	104.061	0.882	0.847	3.44	0.156	1.89e7	8114	2329.3	1.44e7	6457	2235.5	bd	bd
21	13C-123678-HxCDD	1.22e6	9.45e5	2.16e6	36.46	0.994	1.29	NO	99.911	1.026	1.027	0.98	0.129	2.02e7	8114	2493.2	1.58e7	6457	2449.5	dd	dd
22	13C-1234678-HpCDD	8.92e5	8.23e5	1.71e6	39.62	1.080	1.08	NO	101.759	0.815	0.800	2.20	0.229	1.15e7	11338	1011.8	1.07e7	8880	1200.2	bd	bb
23	13C-OCDD	1.39e6	1.55e6	2.94e6	43.65	1.190	0.90	NO	213.996	0.698	0.653	4.31	0.308	1.37e7	11985	1146.0	1.51e7	10179	1483.2	bd	bd
24	13C-2378-TCDF	1.85e6	2.29e6	4.14e6	29.90	0.993	0.81	NO	102.632	1.780	1.734	1.52	0.103	1.90e7	7480	2538.7	2.34e7	6690	3500.8	bb	bb
25	13C-12378-PeCDF	2.66e6	1.63e6	4.29e6	33.06	1.098	1.63	NO	107.486	1.847	1.719	3.99	0.338	5.73e7	25484	2249.1	3.44e7	20477	1681.6	bb	bd
26	13C-23478-PeCDF	2.67e6	1.60e6	4.26e6	33.67	1.118	1.67	NO	113.296	1.834	1.619	7.01	0.359	5.84e7	25484	2292.7	3.40e7	20477	1659.8	bb	bb
27	13C-123478-HxCDF	9.85e5	1.82e6	2.81e6	35.68	0.973	0.54	NO	103.268	1.333	1.291	3.13	0.200	1.93e7	12559	1540.3	3.58e7	15932	2249.2	bd	bd
28	13C-123678-HxCDF	1.15e6	2.12e6	3.27e6	35.77	0.975	0.54	NO	97.206	1.554	1.598	1.73	0.162	2.00e7	12559	1592.7	3.70e7	15932	2325.3	db	db
29	13C-234678-HxCDF	1.01e6	1.85e6	2.86e6	36.25	0.988	0.55	NO	101.389	1.356	1.338	1.29	0.193	1.71e7	12559	1360.8	3.13e7	15932	1965.8	bd	bd
30	13C-123789-HxCDF	9.17e5	1.62e6	2.53e6	36.99	1.008	0.57	NO	101.119	1.203	1.190	2.59	0.217	1.41e7	12559	1122.7	2.53e7	15932	1588.0	bd	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:59 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.00e6	2.18e6	3.18e6	38.41	1.047	0.46	NO	98.294	1.511	1.537	2.02	0.157	1.50e7	12453	1203.2	3.26e7	14113	2308.3	bb	bb
32	13C-1234789-HpCDF	8.26e5	1.74e6	2.57e6	40.25	1.097	0.47	NO	101.701	1.219	1.198	2.23	0.201	1.02e7	12453	820.0	2.20e7	14113	1562.2	bb	bb
33	13C-1234-TCDD	1.04e6	1.28e6	2.32e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.161	1.06e7	7888	1346.4	1.34e7	4876	2752.4	bb	bb
34	13C-123789-HxCDD	1.17e6	9.34e5	2.11e6	36.68	0.000	1.25	NO	100.000	1.000	1.000	0.00	0.132	1.84e7	8114	2269.4	1.49e7	6457	2306.3	dd	dd
35	37Cl-2378-TCDD	5.79e6		5.79e6	30.82	1.023			221.675	1.246	1.124	6.42	0.0791	7.15e7	7037	10161.9				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

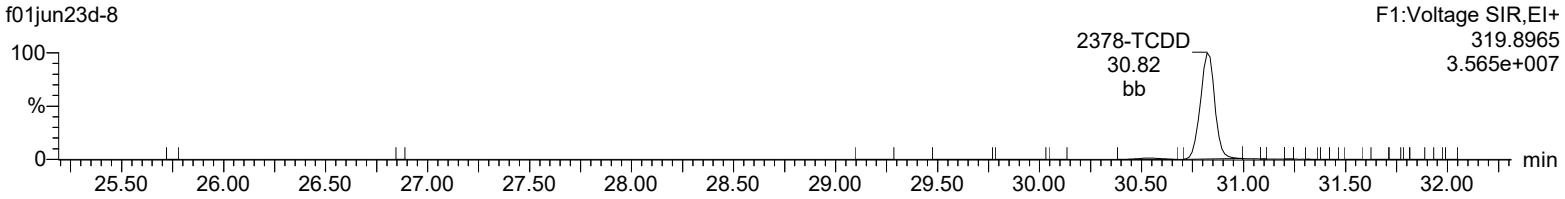
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

06/06/2023

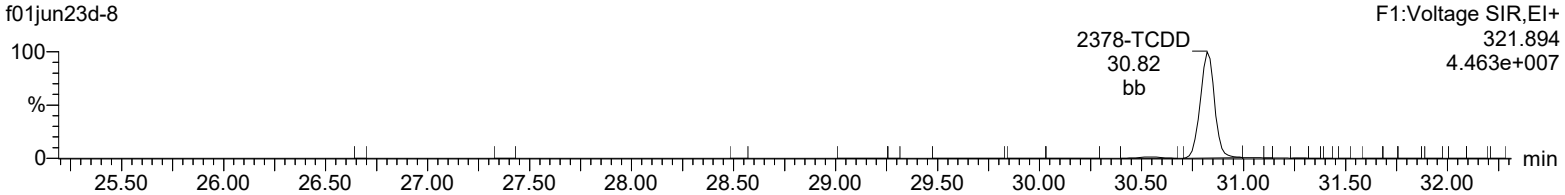
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

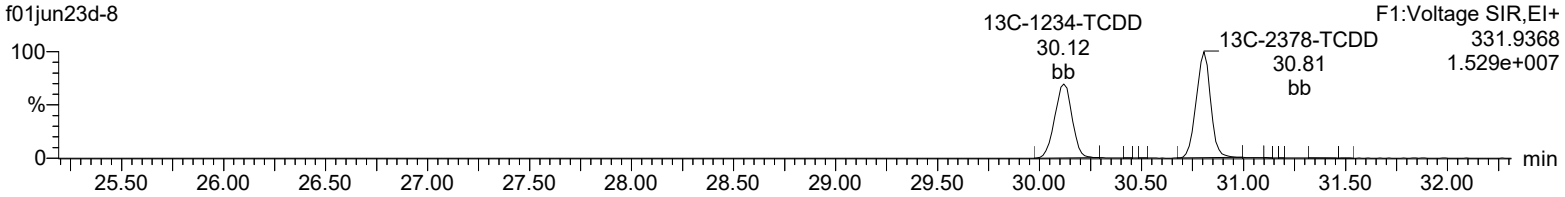
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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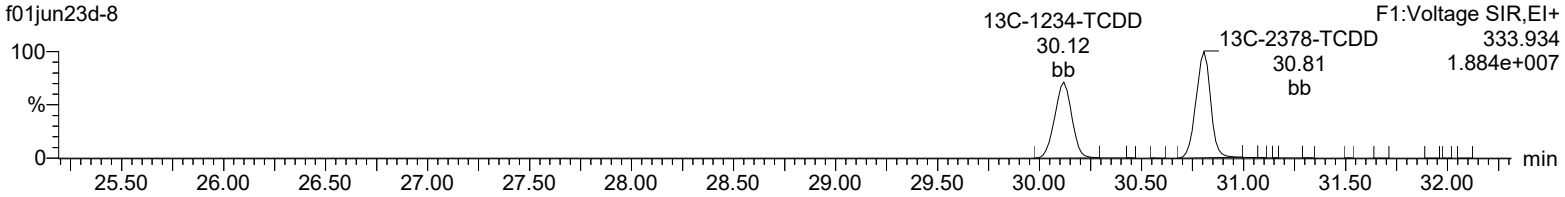

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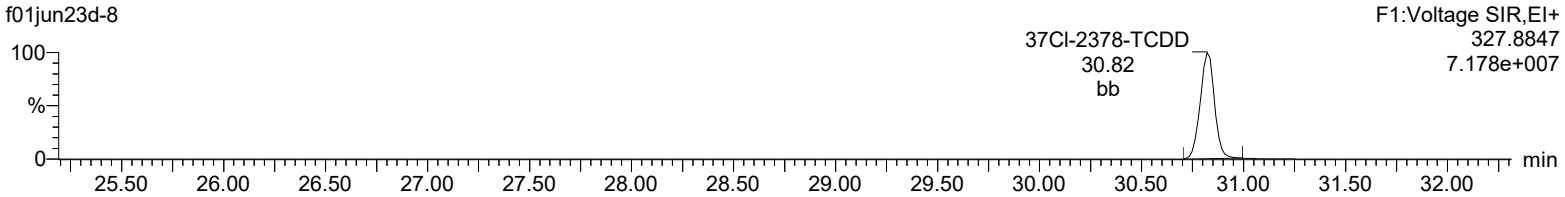
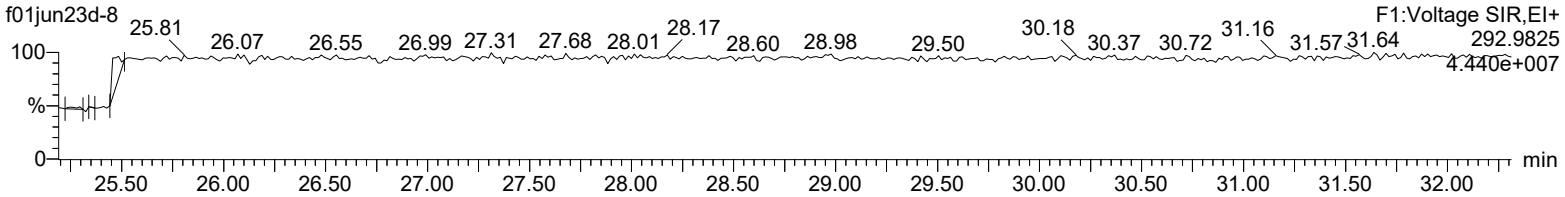


Lock Mass F1



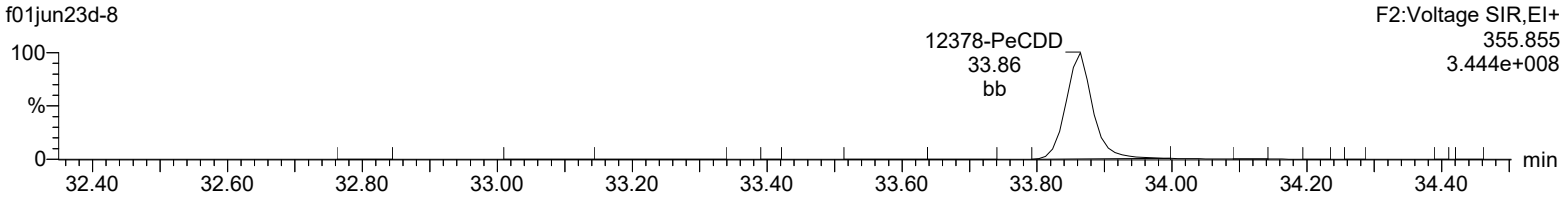
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

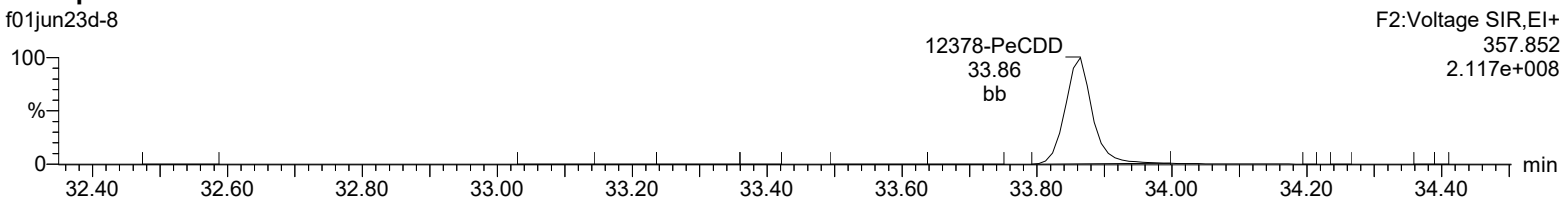
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

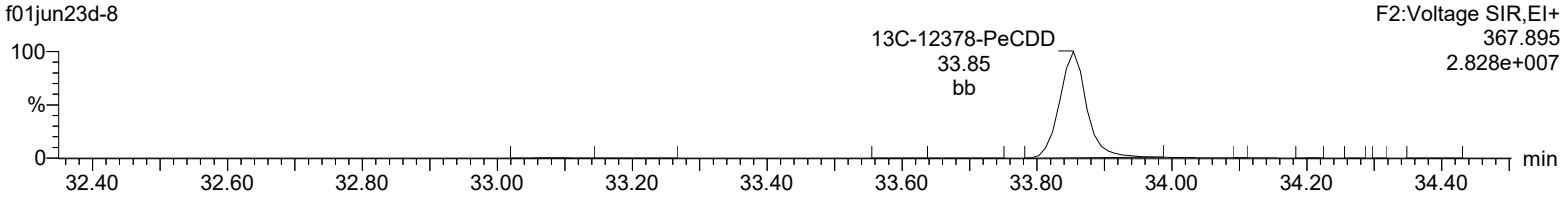
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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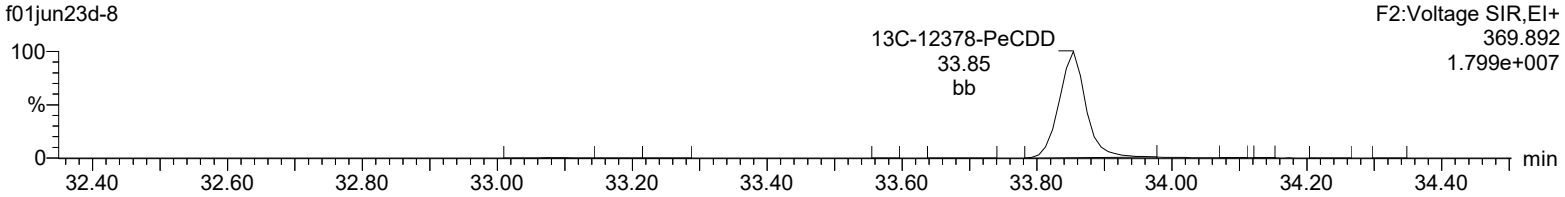
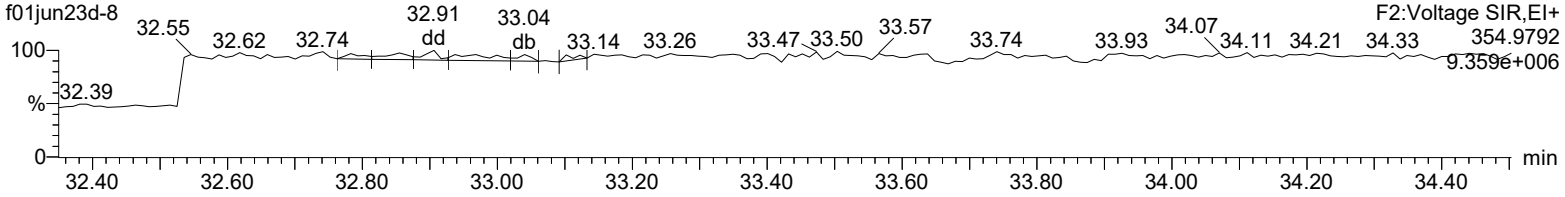


Lock Mass F2



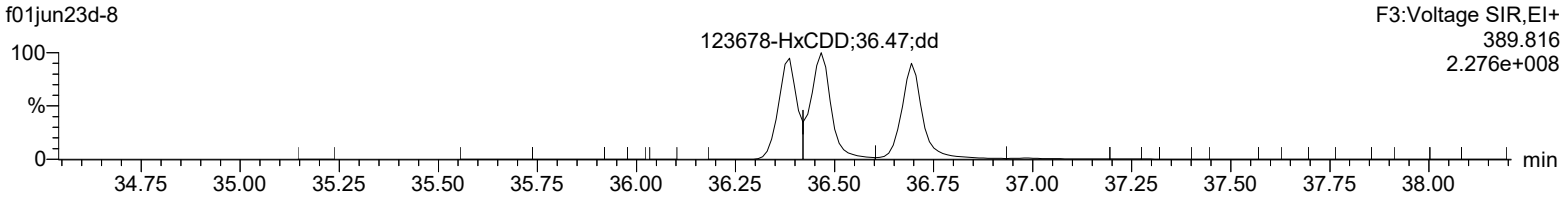
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

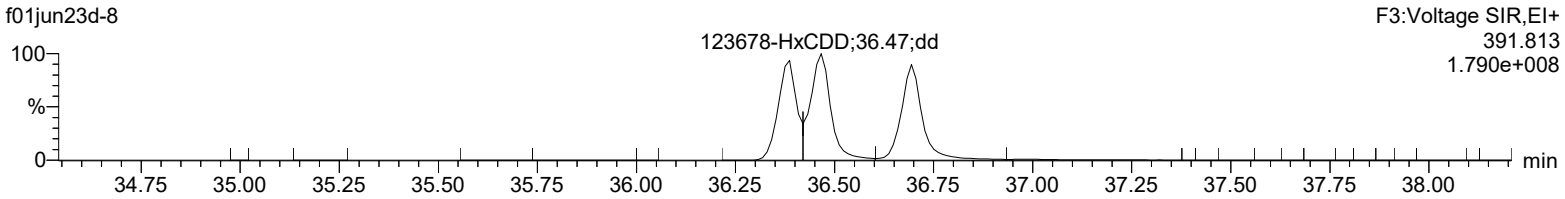
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

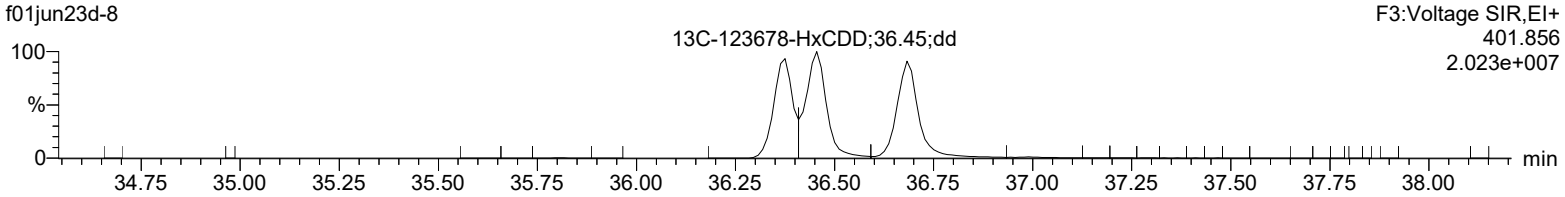
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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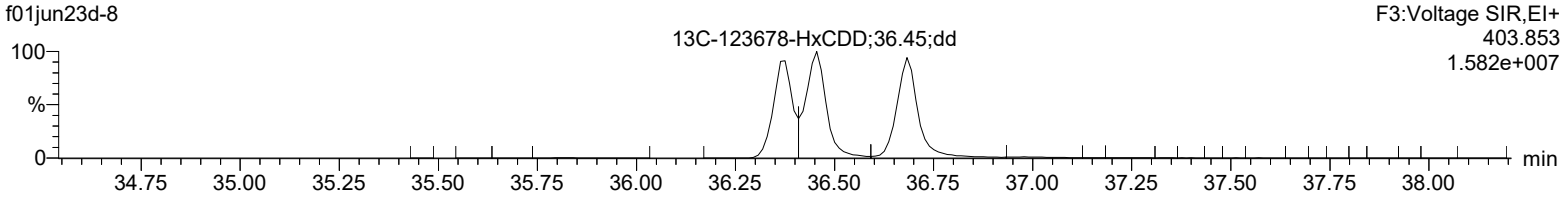
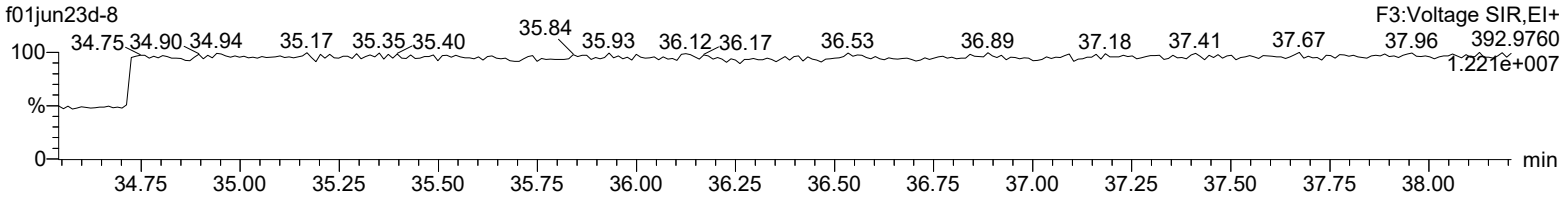


Lock Mass F3



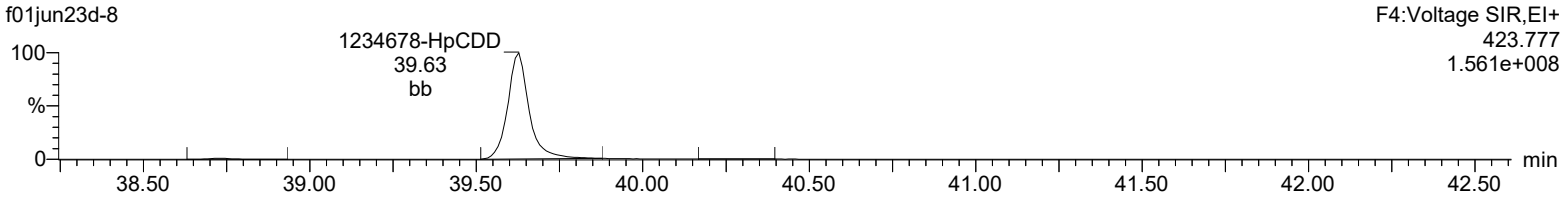
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

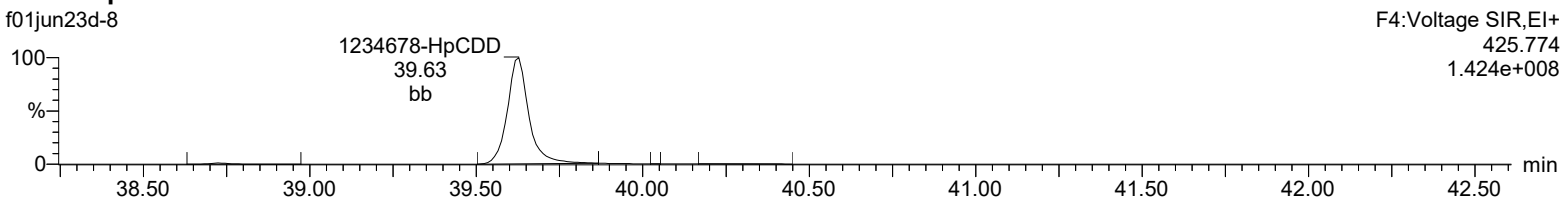
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

Total-heptadioxins



Total-heptadioxins



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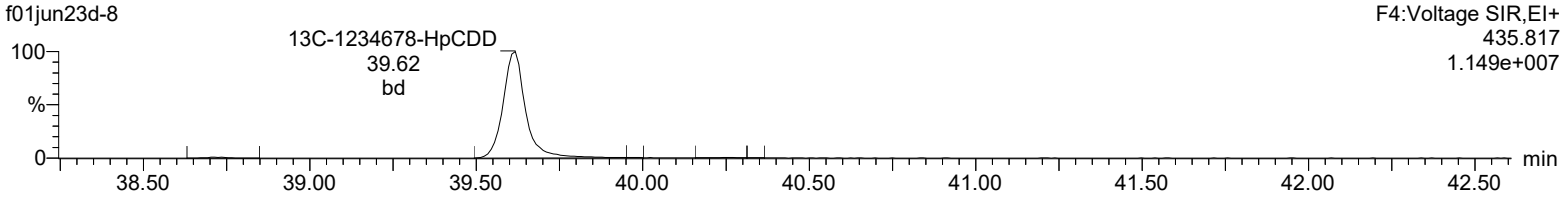

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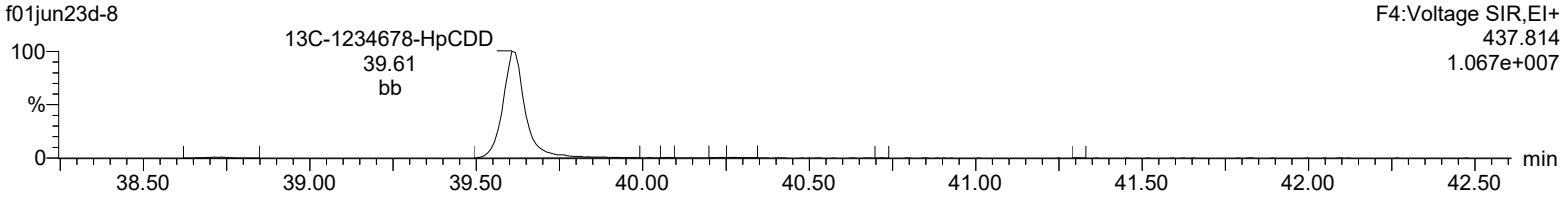
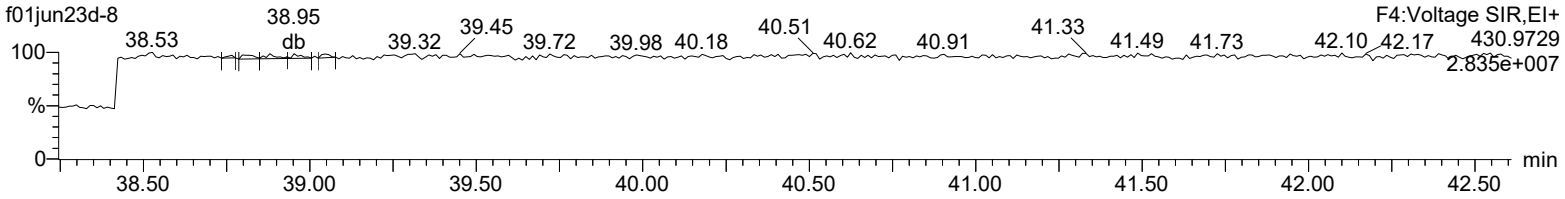


Lock Mass F4



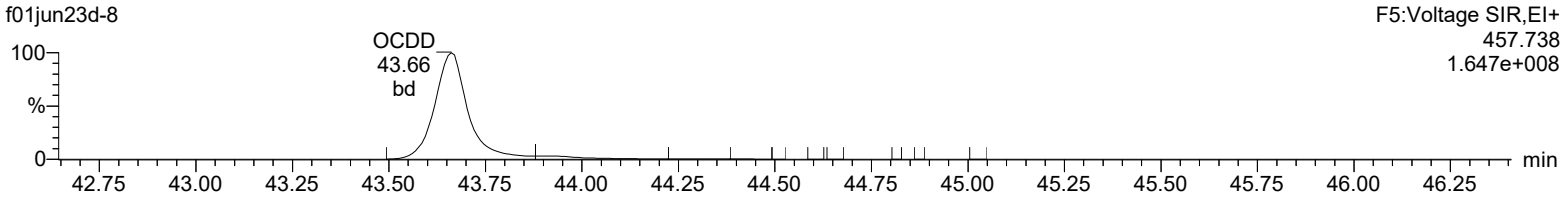
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

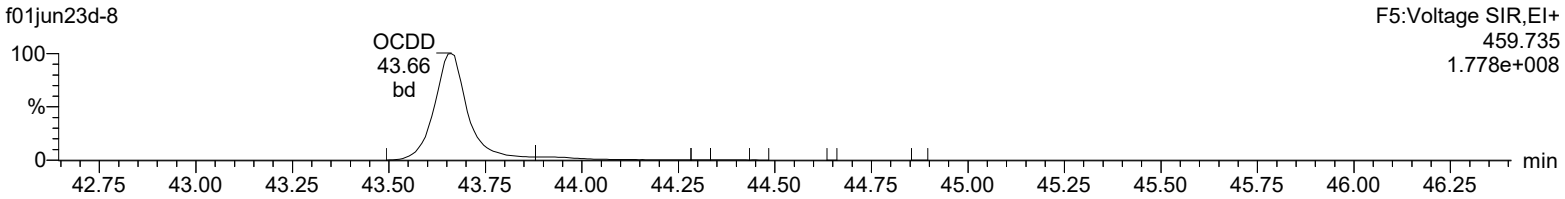
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

OCDD



OCDD



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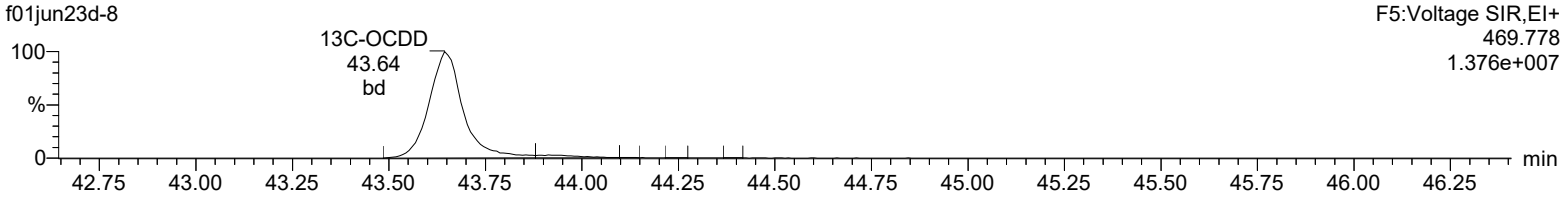

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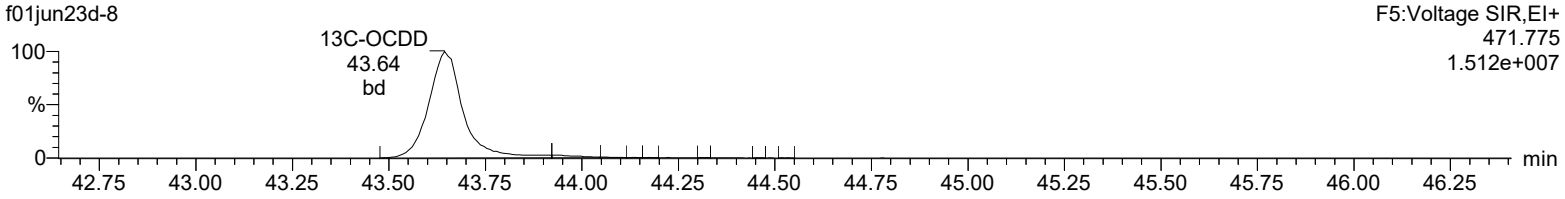
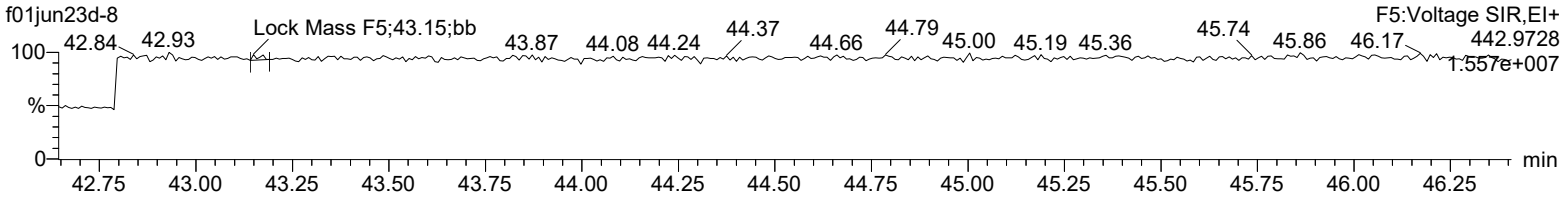


Lock Mass F5



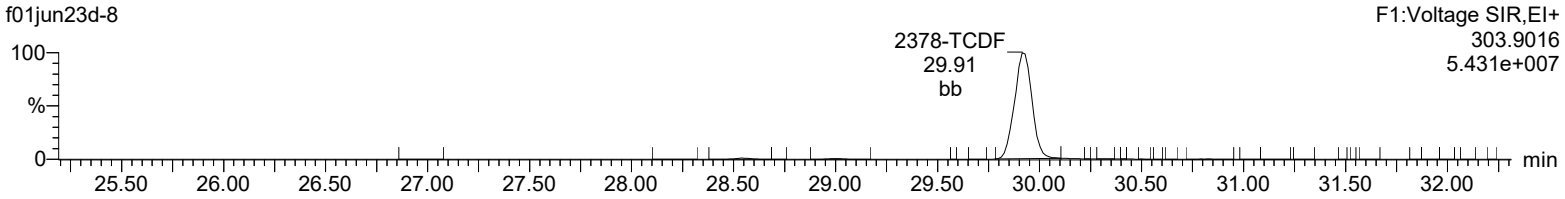
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

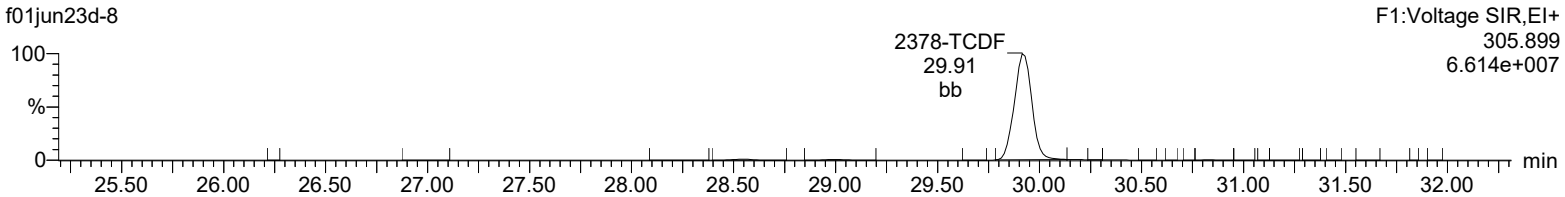
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

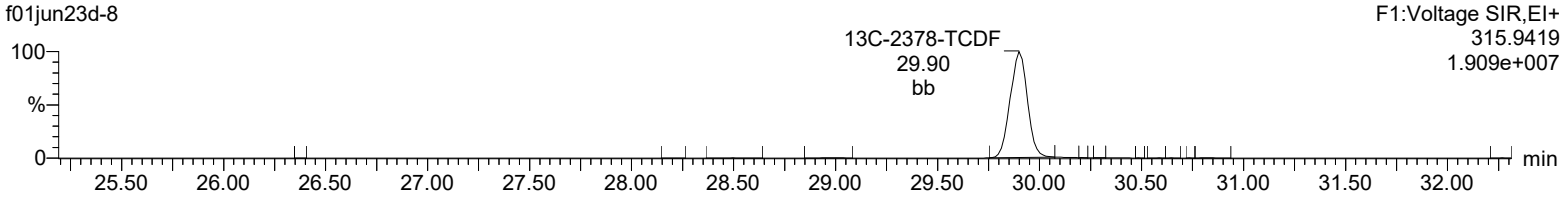
Total-tetrafurans



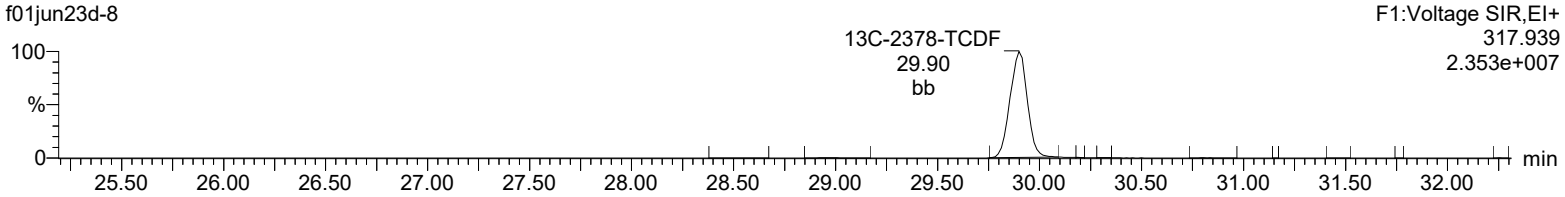
Total-tetrafurans



13C-2378-TCDF



13C-2378-TCDF



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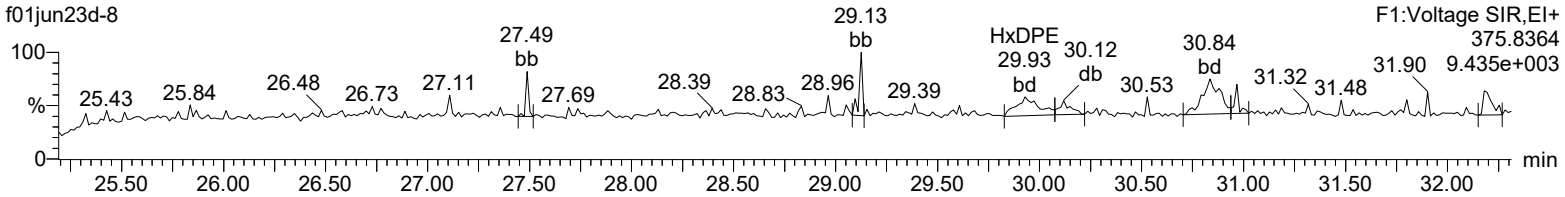
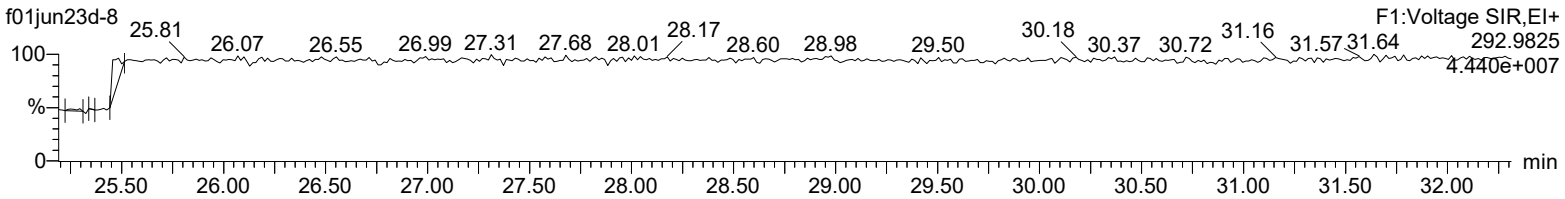


Lock Mass F1



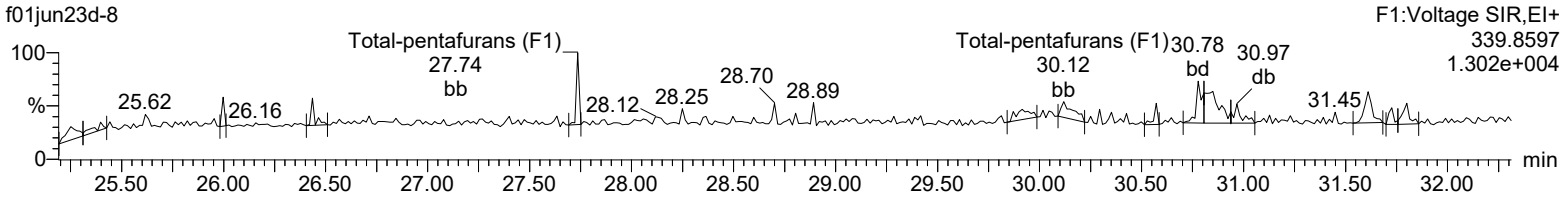
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

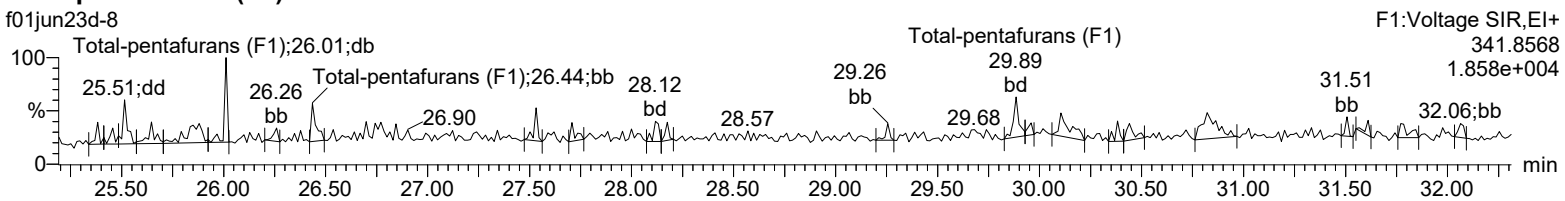
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

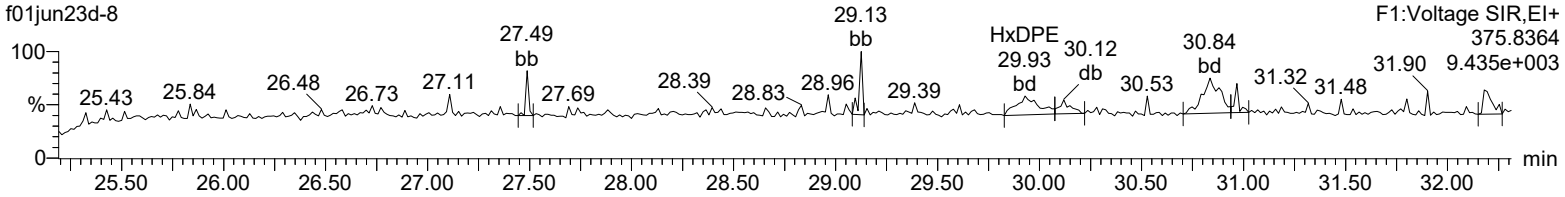
Total-pentafurans (F1)



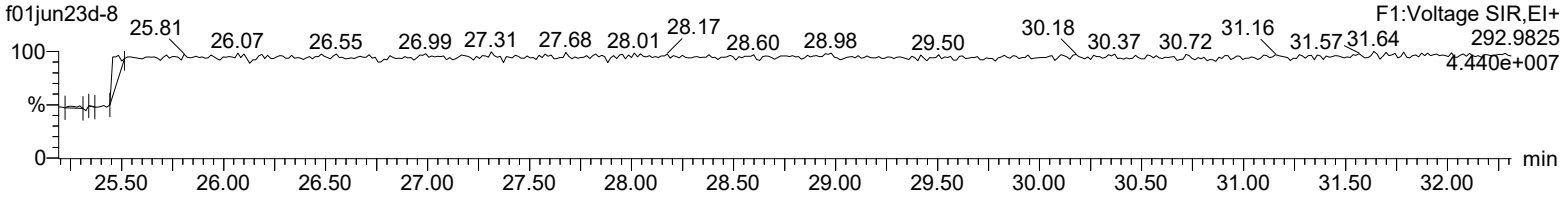
Total-pentafurans (F1)



HxDPE



Lock Mass F1



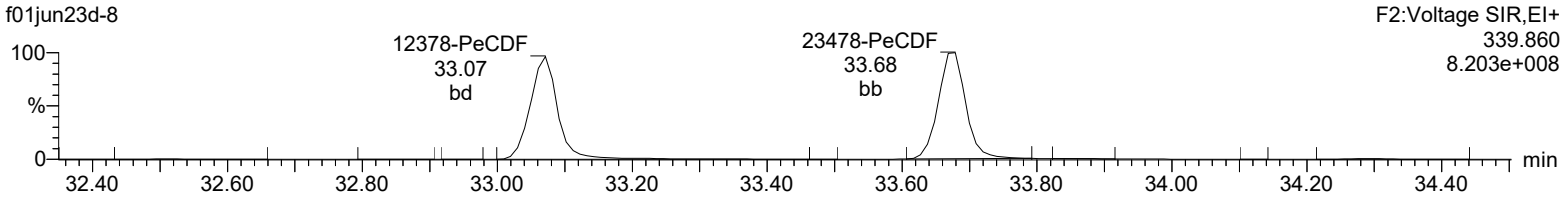
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

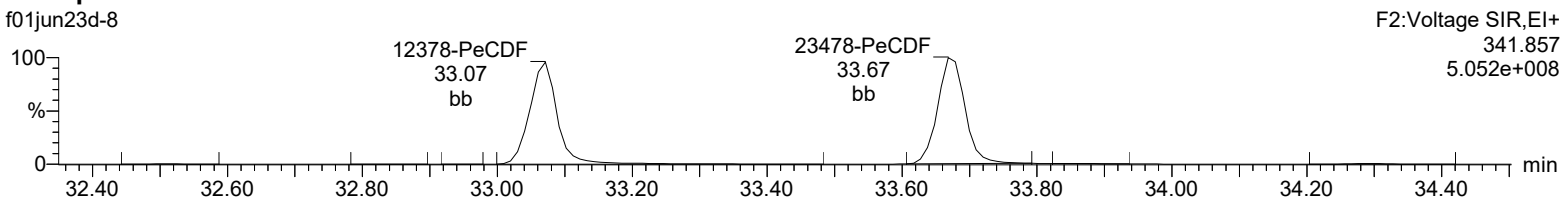
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

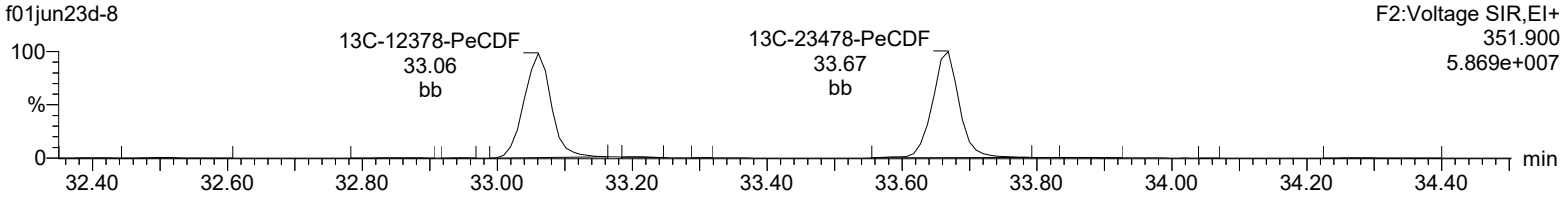
Total-pentafurans



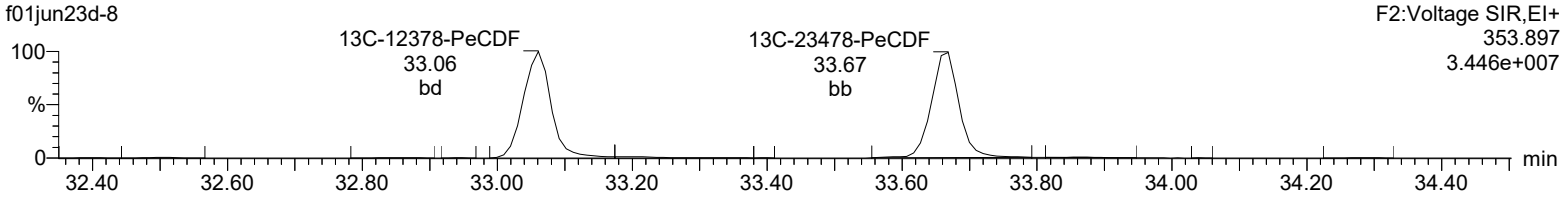
Total-pentafurans



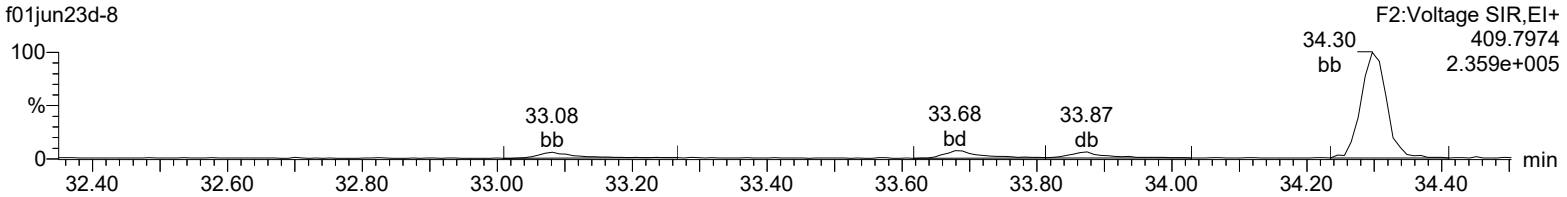
13C-12378-PeCDF



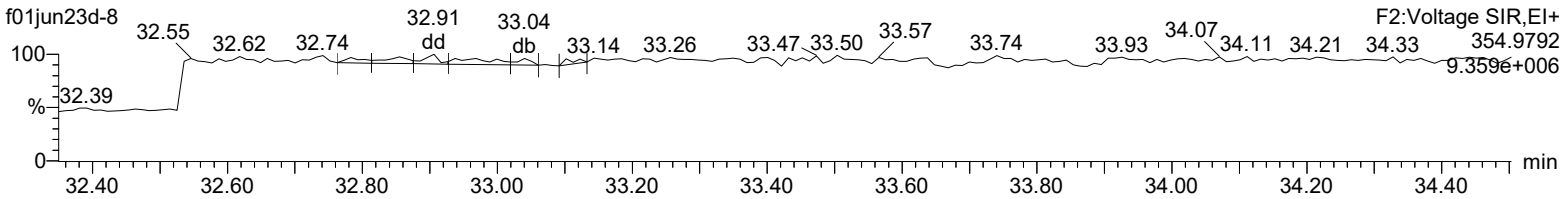
13C-12378-PeCDF



HpDPE



Lock Mass F2



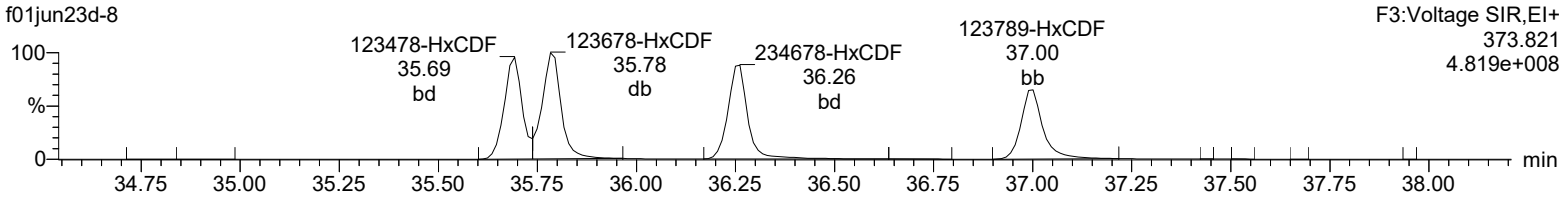
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

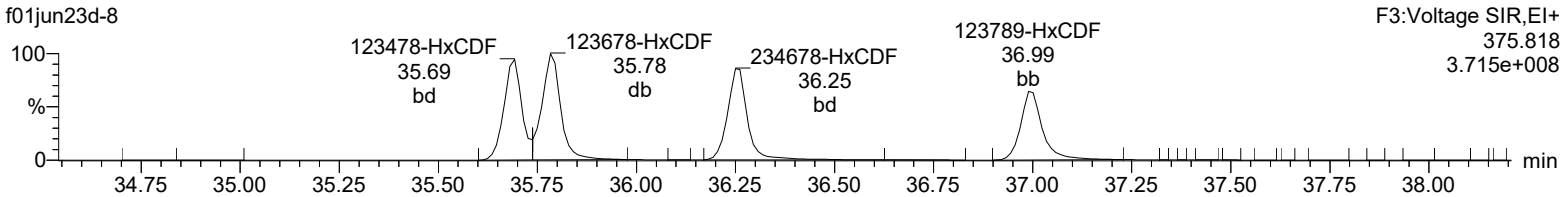
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

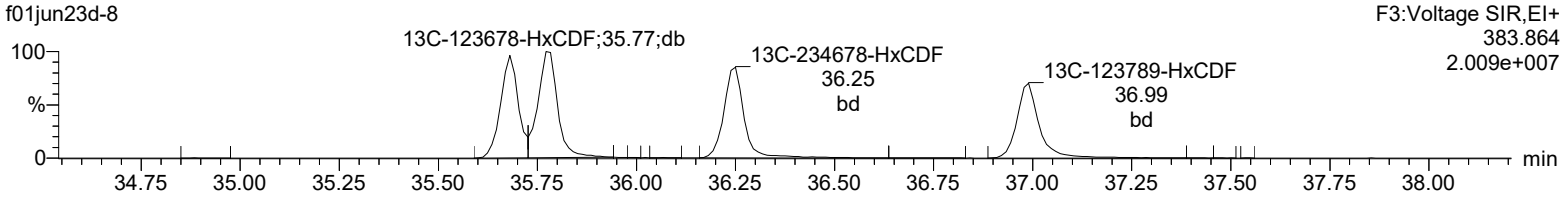
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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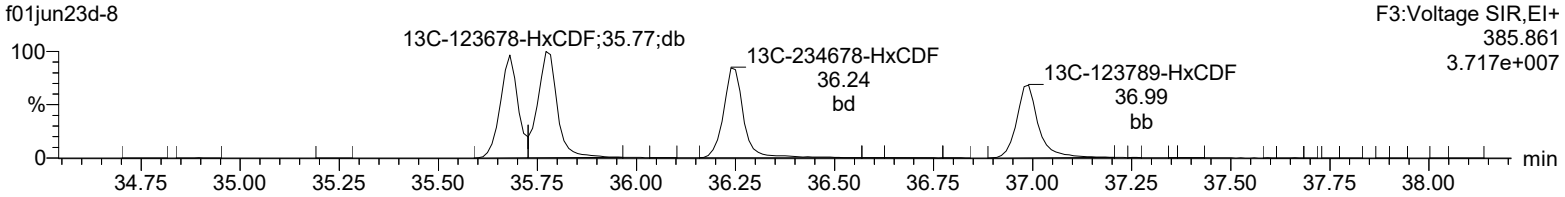
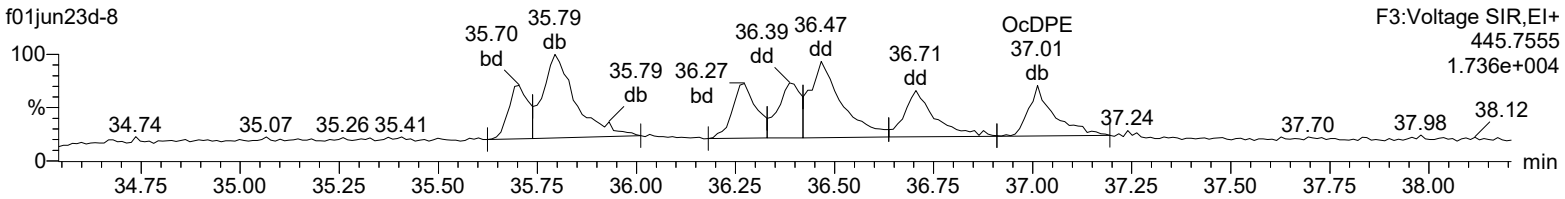
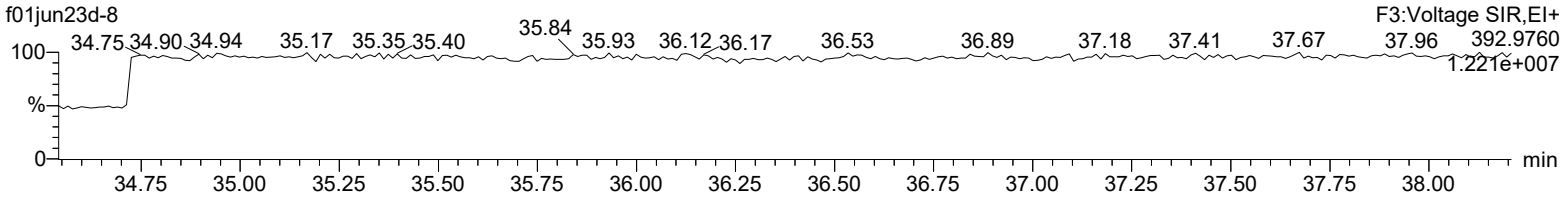


OcDPE



Lock Mass F3



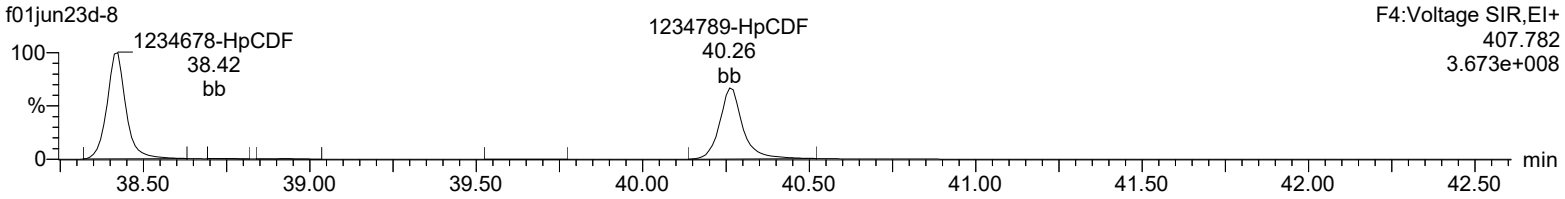
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

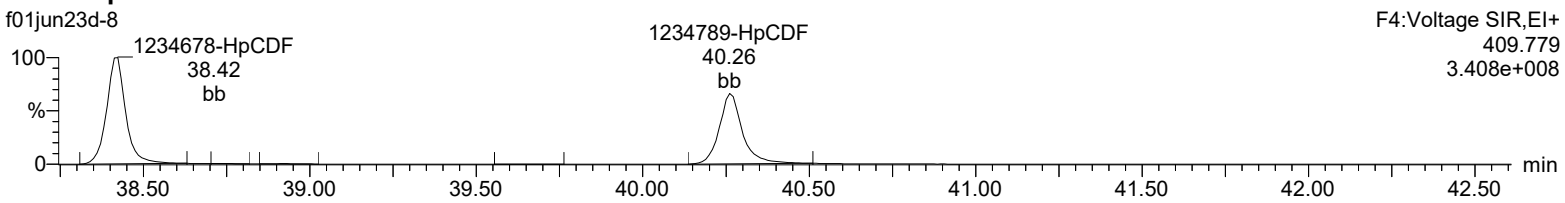
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

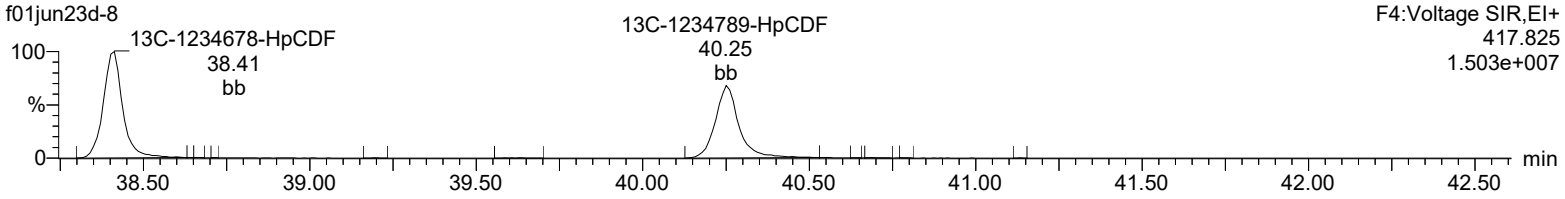
Total-heptafurans



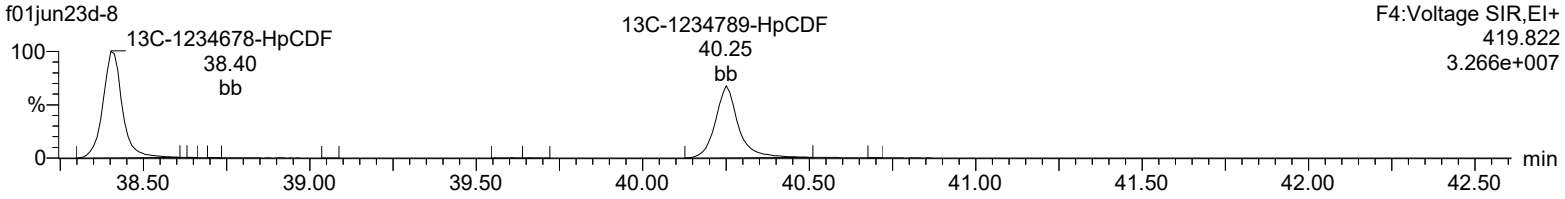
Total-heptafurans



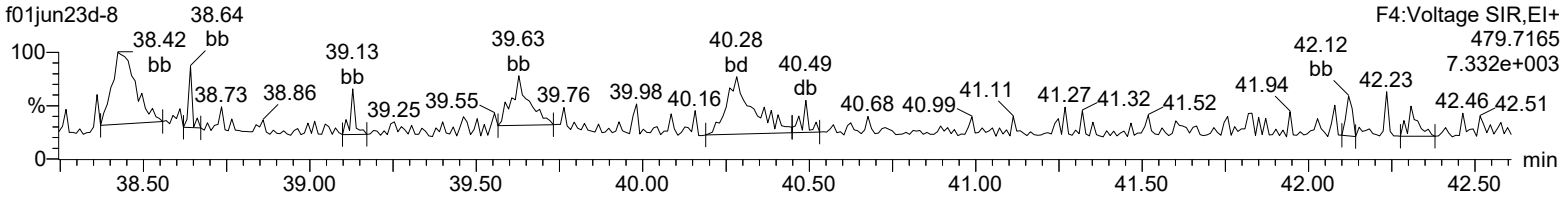
13C-1234678-HpCDF



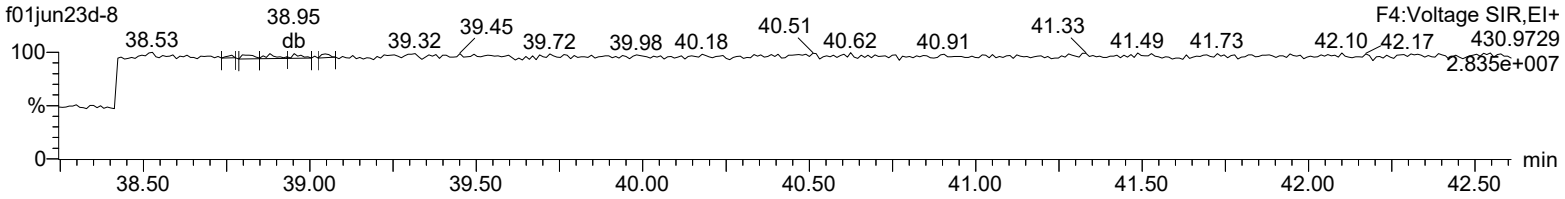
13C-1234678-HpCDF



NoDPE



Lock Mass F4



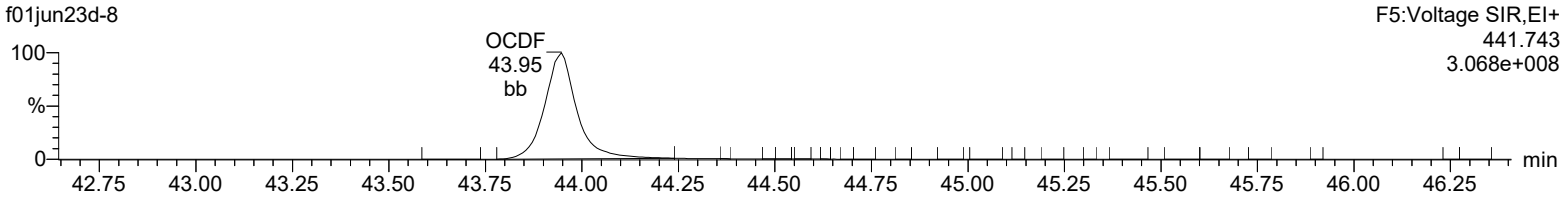
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

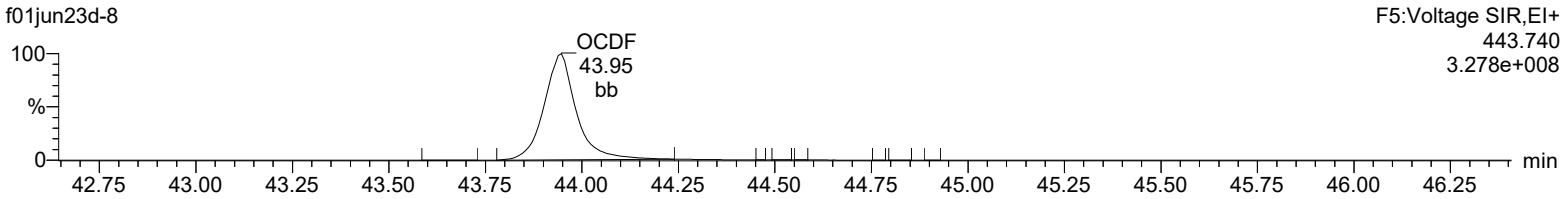
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

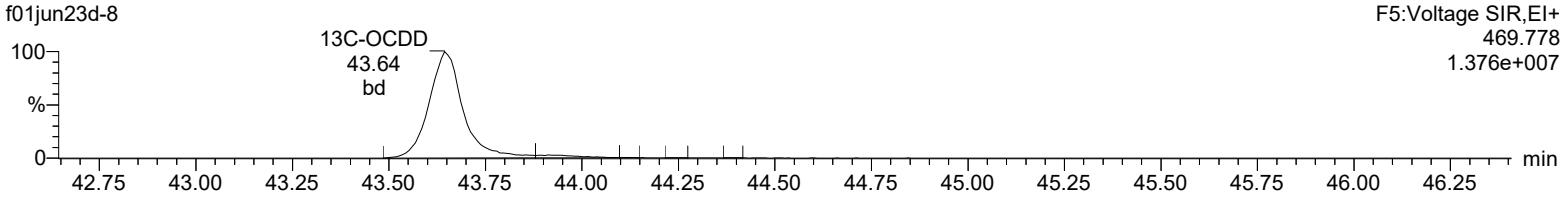
OCDF



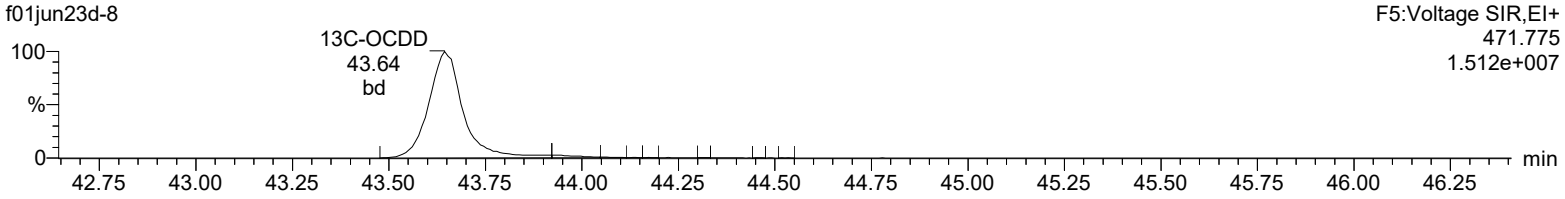
OCDF



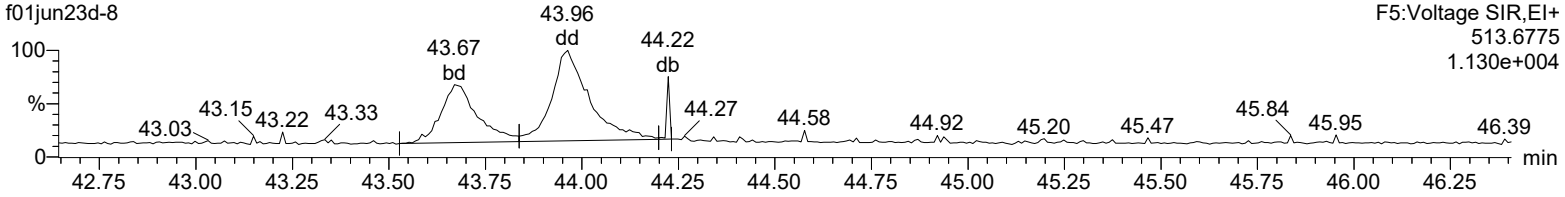
13C-OCDD



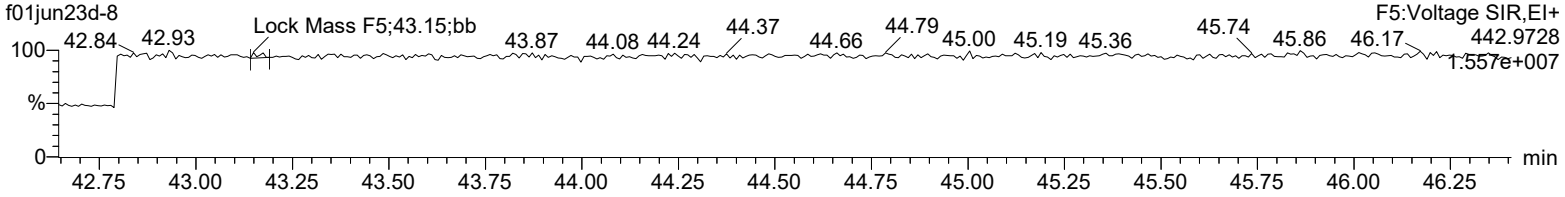
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-10.qld

06/02/2023

Last Altered: Friday, June 02, 2023 12:42:10 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:43:19 Eastern Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

	Name	RT
1	First TCDF	25.65
2	Last TCDF	31.62
3	First PeCDF	31.60
4	Last PeCDF	34.30
5	First HxCDF	34.77
6	Last HxCDF	37.00
7	First HpCDF	38.42
8	Last HpCDF	40.27
9	OCDF	43.93
10	First TCDD	27.37
11	2378-TCDD	30.82
12	Last TCDD	31.54
13	First PeCDD	32.55
14	Last PeCDD	34.12
15	First HxCDD	35.19
16	Last HxCDD	36.69
17	First HpCDD	38.73
18	Last HpCDD	39.63
19	OCDD	43.66

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-10.qld

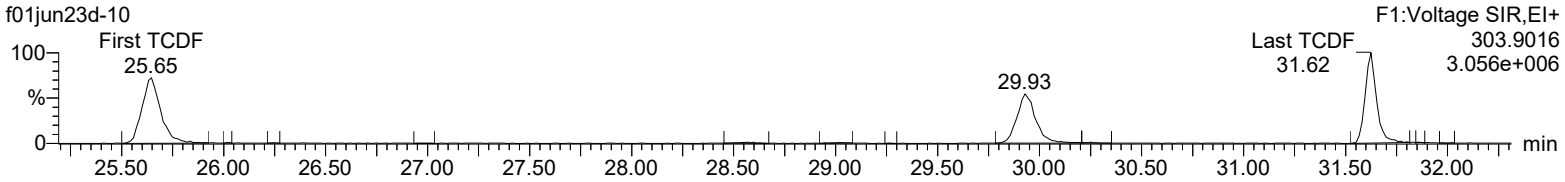
Last Altered: Friday, June 02, 2023 12:42:10 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:43:19 Eastern Daylight Time

06/02/2023

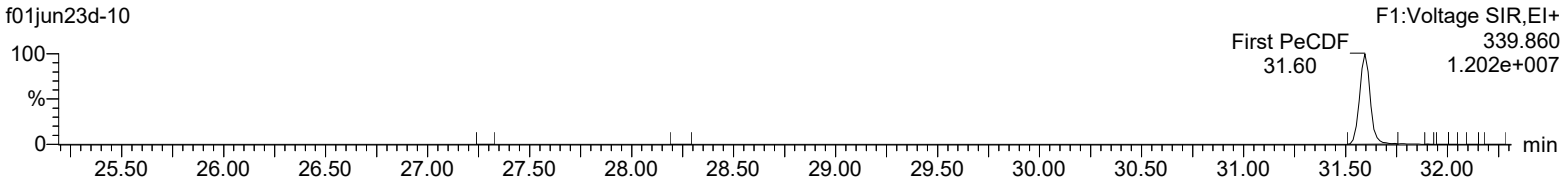
Method: C:\MassLynx\DEFAULT.PRO\MethDB\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

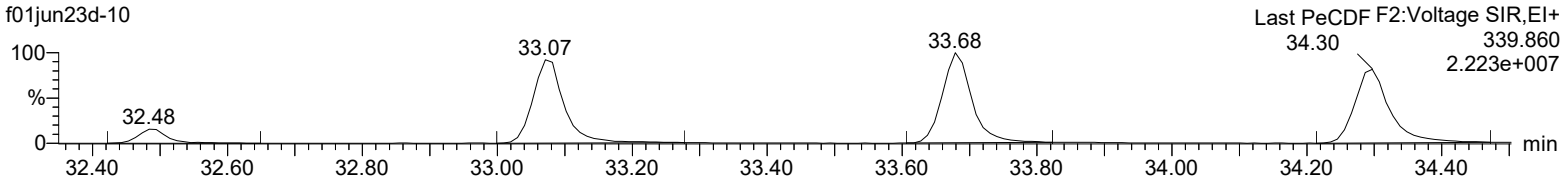
First TCDF



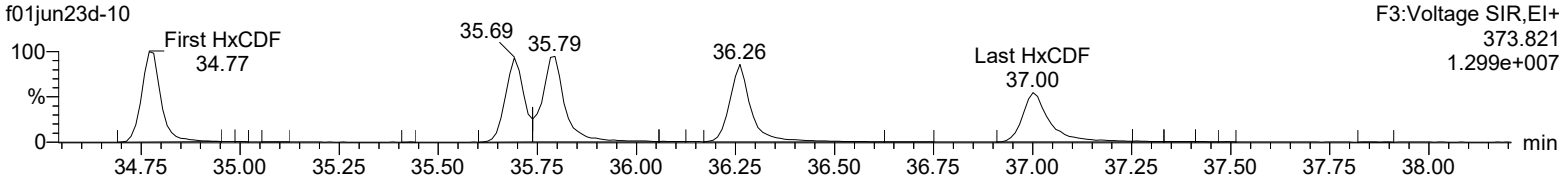
First PeCDF



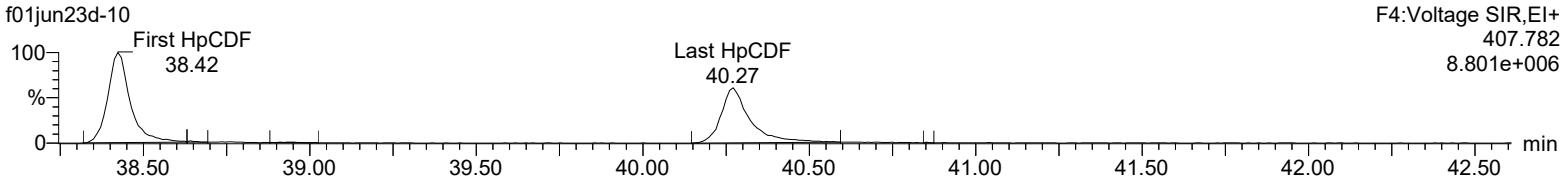
Last PeCDF



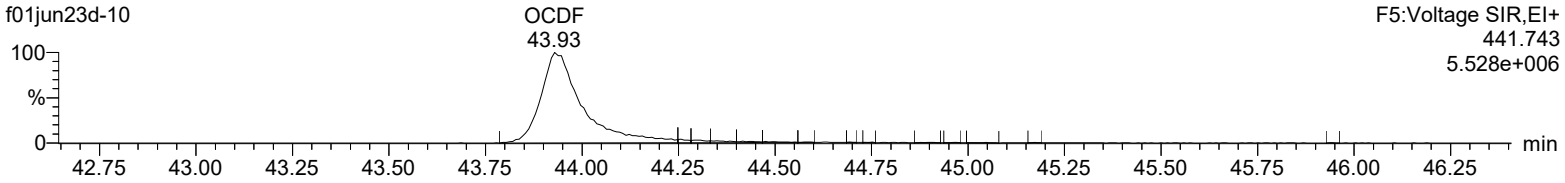
First HxCDF



First HpCDF



OCDF



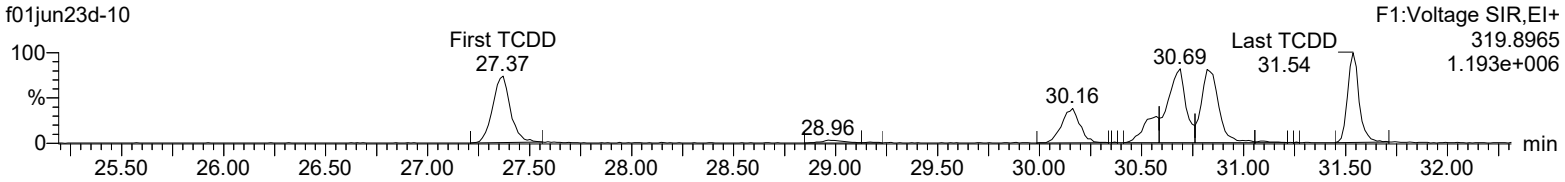
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-10.qld

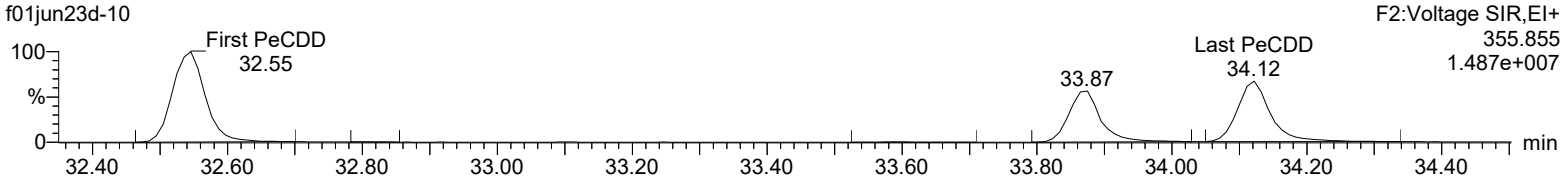
Last Altered: Friday, June 02, 2023 12:42:10 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:43:19 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

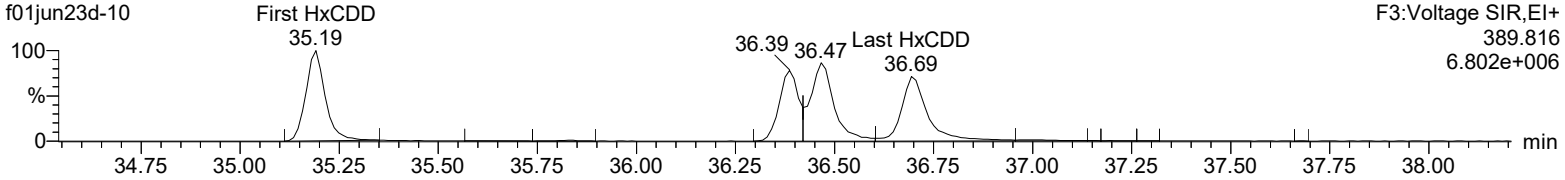
First TCDD



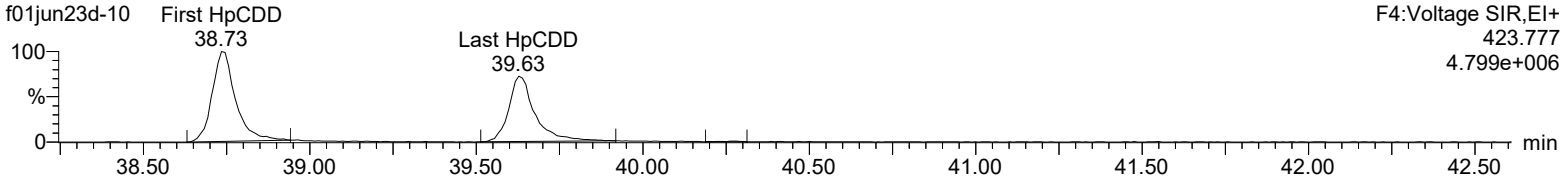
First PeCDD



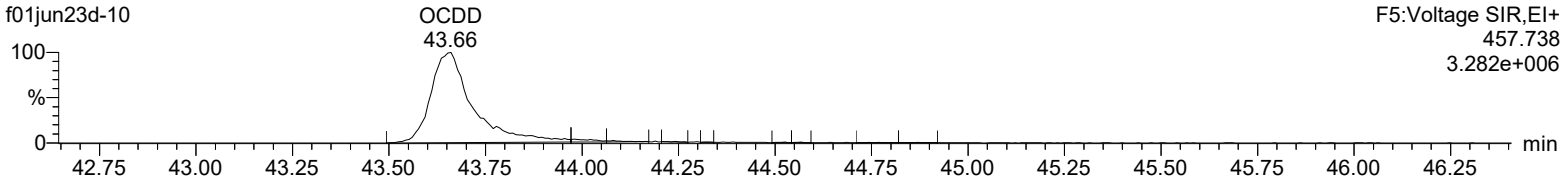
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/05/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

Last Altered: Monday, June 05, 2023 15:40:00 Eastern Daylight Time
Printed: Monday, June 05, 2023 15:41:05 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\Old Methods\CFA_1613_f01jun23.mdb 02 Jun 2023 15:57:41
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	9.45e4	1.14e5	2.09e5	30.82	1.000	0.83	NO	10.150	0.0504	1.116	1.100	1.5	9.64e5	2193	439.6	1.19e6	2104	567.6	dd	dd
2	12378-PeCDD	4.55e5	2.80e5	7.35e5	33.87	1.001	1.63	NO	50.045	0.244	1.166	1.164	0.1	8.37e6	11623	720.5	5.12e6	14168	361.3	bb	bb
3	123478-HxCDD	2.92e5	2.30e5	5.22e5	36.39	1.000	1.27	NO	50.381	0.281	1.081	1.073	0.8	5.31e6	11918	445.8	4.02e6	8924	450.5	bd	bd
4	123678-HxCDD	4.02e5	3.18e5	7.20e5	36.47	1.000	1.26	NO	51.460	0.261	1.095	1.064	2.9	5.88e6	11918	493.8	4.75e6	8924	532.5	dd	dd
5	123789-HxCDD	3.67e5	2.73e5	6.40e5	36.69	1.007	1.34	NO	52.651	0.270	1.123	1.066	5.3	4.85e6	11918	407.3	3.59e6	8924	402.0	dd	dd
6	1234678-HpCDD	3.15e5	2.89e5	6.04e5	39.63	1.000	1.09	NO	51.742	0.514	1.271	1.228	3.5	3.47e6	13302	260.9	3.13e6	13878	225.3	bb	bb
7	OCDD	4.10e5	4.35e5	8.46e5	43.66	1.001	0.94	NO	103.013	0.876	1.140	1.107	3.0	3.27e6	10919	299.4	3.56e6	11315	315.0	bd	bd
8	2378-TCDF	1.77e5	2.18e5	3.96e5	29.93	1.000	0.81	NO	10.096	0.128	1.365	1.352	1.0	1.67e6	9111	182.9	2.15e6	9327	231.0	bd	bb
9	12378-PeCDF	1.09e6	6.82e5	1.77e6	33.07	1.000	1.60	NO	49.833	0.196	1.270	1.274	-0.3	2.04e7	23625	865.5	1.24e7	26599	464.4	bb	bb
10	23478-PeCDF	1.11e6	6.87e5	1.80e6	33.68	1.000	1.62	NO	49.644	0.184	1.384	1.394	-0.7	2.21e7	23625	935.7	1.44e7	26599	540.7	bb	bb
11	123478-HxCDF	6.43e5	5.00e5	1.14e6	35.69	1.000	1.29	NO	51.660	0.239	1.465	1.418	3.3	1.21e7	20791	580.6	9.22e6	18069	510.2	bd	bd
12	123678-HxCDF	8.16e5	6.15e5	1.43e6	35.79	1.000	1.33	NO	50.927	0.228	1.404	1.378	1.9	1.23e7	20791	590.4	9.51e6	18069	526.5	dd	db
13	234678-HxCDF	6.92e5	5.04e5	1.20e6	36.26	1.000	1.37	NO	51.638	0.265	1.469	1.422	3.3	1.11e7	20791	533.5	8.16e6	18069	451.5	bd	bb
14	123789-HxCDF	5.61e5	4.23e5	9.84e5	37.00	1.000	1.33	NO	51.262	0.408	1.335	1.302	2.5	7.09e6	20791	341.2	5.34e6	18069	295.5	bd	bb
15	1234678-HpCDF	6.82e5	6.54e5	1.34e6	38.42	1.000	1.04	NO	51.875	0.287	1.436	1.384	3.8	8.76e6	19953	439.1	8.39e6	18392	456.4	bd	bb
16	1234789-HpCDF	5.31e5	5.04e5	1.04e6	40.27	1.001	1.05	NO	52.200	0.496	1.424	1.364	4.4	5.35e6	19953	268.0	4.97e6	18392	270.5	bb	bd
17	OCDF	6.80e5	7.26e5	1.41e6	43.93	1.007	0.94	NO	108.172	1.13	1.895	1.752	8.2	5.52e6	19577	281.7	5.78e6	26003	222.2	bd	bd
18	13C-2378-TCDD	8.32e5	1.04e6	1.87e6	30.81	1.022	0.80	NO	97.246	0.171	1.107	1.139	-2.8	8.63e6	7615	1133.2	1.09e7	5236	2073.9	bd	bd
19	13C-12378-PeCDD	7.71e5	4.90e5	1.26e6	33.85	1.123	1.57	NO	91.807	0.237	0.747	0.813	-8.2	1.38e7	6928	1998.7	8.74e6	5782	1511.9	bb	bd
20	13C-123478-HxCDD	5.39e5	4.27e5	9.66e5	36.38	0.992	1.26	NO	94.473	0.326	0.801	0.847	-5.5	9.64e6	8610	1119.8	7.54e6	8511	886.5	bd	bd
21	13C-123678-HxCDD	7.39e5	5.77e5	1.32e6	36.45	0.994	1.28	NO	106.178	0.269	1.091	1.027	6.2	1.05e7	8610	1223.5	8.37e6	8511	983.8	dd	dd
22	13C-1234678-HpCDD	4.95e5	4.56e5	9.51e5	39.62	1.080	1.09	NO	98.435	0.424	0.788	0.800	-1.6	5.61e6	10727	522.9	4.96e6	10327	480.2	bd	bd
23	13C-OCDD	7.18e5	7.65e5	1.48e6	43.64	1.190	0.94	NO	188.410	0.587	0.615	0.653	-5.8	5.55e6	12951	428.5	6.26e6	10807	579.7	bd	bd
24	13C-2378-TCDF	1.30e6	1.60e6	2.90e6	29.91	0.993	0.81	NO	98.927	0.134	1.715	1.734	-1.1	1.19e7	7867	1512.7	1.43e7	7479	1910.2	bd	bd
25	13C-12378-PeCDF	1.75e6	1.05e6	2.79e6	33.06	1.097	1.67	NO	96.274	0.401	1.655	1.719	-3.7	3.14e7	28354	1107.5	1.92e7	16990	1131.0	dd	bb
26	13C-23478-PeCDF	1.64e6	9.63e5	2.60e6	33.67	1.117	1.70	NO	95.144	0.425	1.540	1.619	-4.9	3.08e7	28354	1085.9	1.89e7	16990	1114.8	bb	bb
27	13C-123478-HxCDF	5.45e5	1.01e6	1.56e6	35.68	0.973	0.54	NO	100.138	0.452	1.293	1.291	0.1	1.00e7	16291	614.0	1.90e7	19894	954.6	bd	bd
28	13C-123678-HxCDF	7.36e5	1.30e6	2.04e6	35.78	0.975	0.56	NO	105.769	0.365	1.690	1.598	5.8	1.11e7	16291	683.9	2.02e7	19894	1017.8	dd	db
29	13C-234678-HxCDF	5.82e5	1.05e6	1.63e6	36.25	0.988	0.56	NO	100.963	0.436	1.351	1.338	1.0	9.20e6	16291	564.4	1.67e7	19894	840.1	bd	bb
30	13C-123789-HxCDF	5.01e5	9.73e5	1.47e6	36.99	1.008	0.52	NO	102.707	0.490	1.222	1.190	2.7	6.22e6	16291	381.8	1.17e7	19894	589.6	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

Last Altered: Monday, June 05, 2023 15:40:00 Eastern Daylight Time
Printed: Monday, June 05, 2023 15:41:05 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	5.97e5	1.26e6	1.86e6	38.41	1.047	0.47	NO	100.347	0.360	1.542	1.537	0.3	7.75e6	12387	625.5	1.60e7	21893	731.0	bd	bb
32	13C-1234789-HpCDF	4.48e5	1.01e6	1.45e6	40.25	1.097	0.45	NO	100.620	0.461	1.206	1.198	0.6	4.36e6	12387	352.2	9.53e6	21893	435.1	bd	bd
33	13C-1234-TCDD	7.49e5	9.40e5	1.69e6	30.13	0.000	0.80	NO	100.000	0.195	1.000	1.000	0.0	7.29e6	7615	957.9	9.06e6	5236	1730.9	bb	bd
34	13C-123789-HxCDD	6.77e5	5.29e5	1.21e6	36.68	0.000	1.28	NO	100.000	0.276	1.000	1.000	0.0	8.70e6	8610	1011.0	6.90e6	8511	811.1	dd	dd
35	37Cl-2378-TCDD	1.75e5		1.75e5	30.84	1.023			9.218	0.0399	1.036	1.124	-7.8	1.90e6	2949	643.3				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/05/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

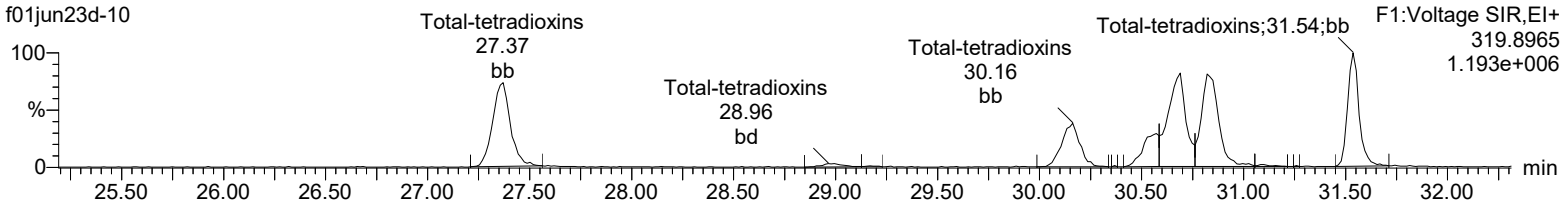
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

06/06/2023

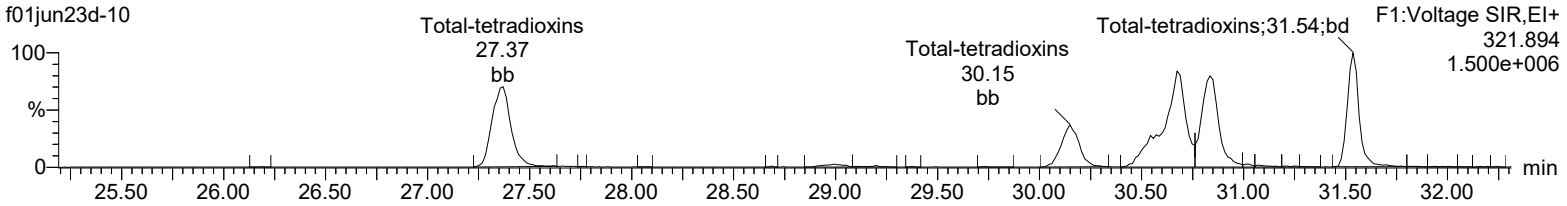
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

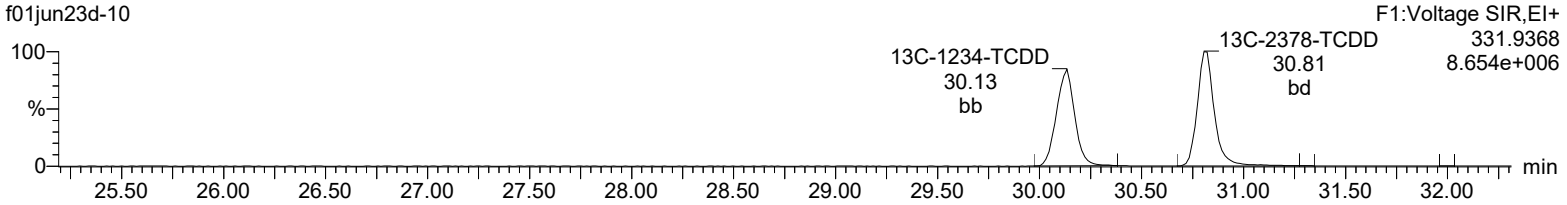
Total-tetradioxins



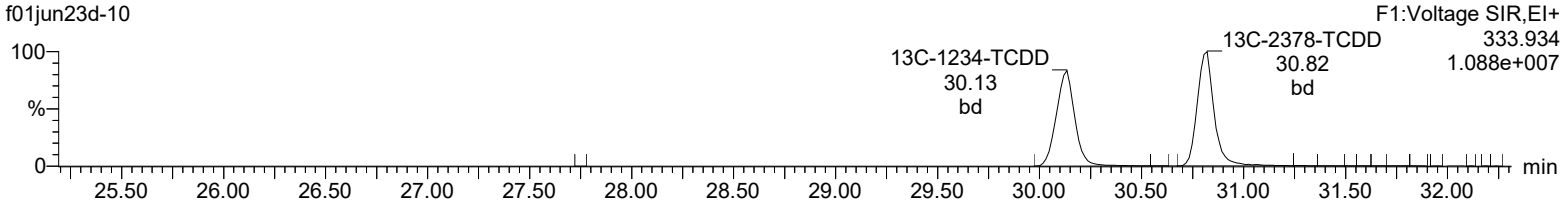
Total-tetradioxins



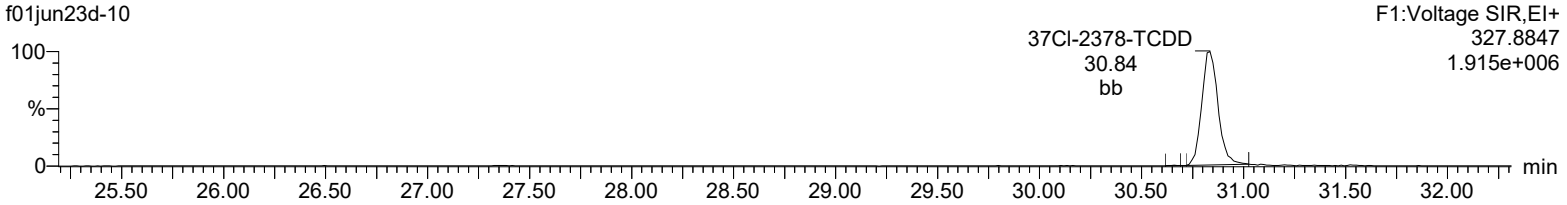
13C-2378-TCDD



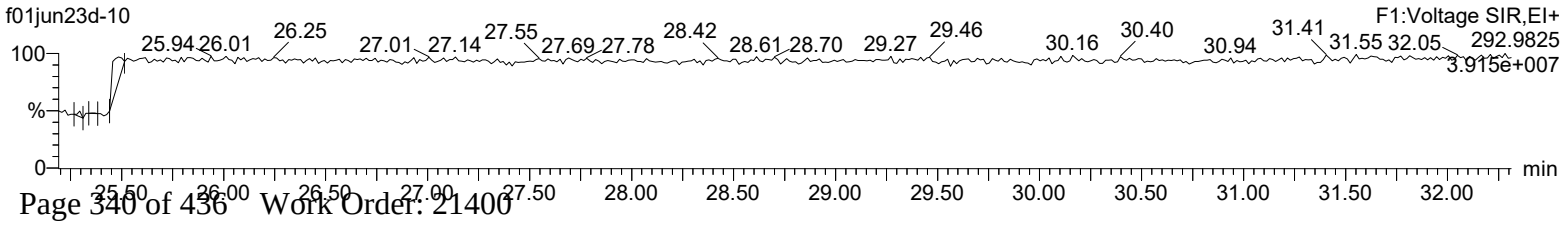
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



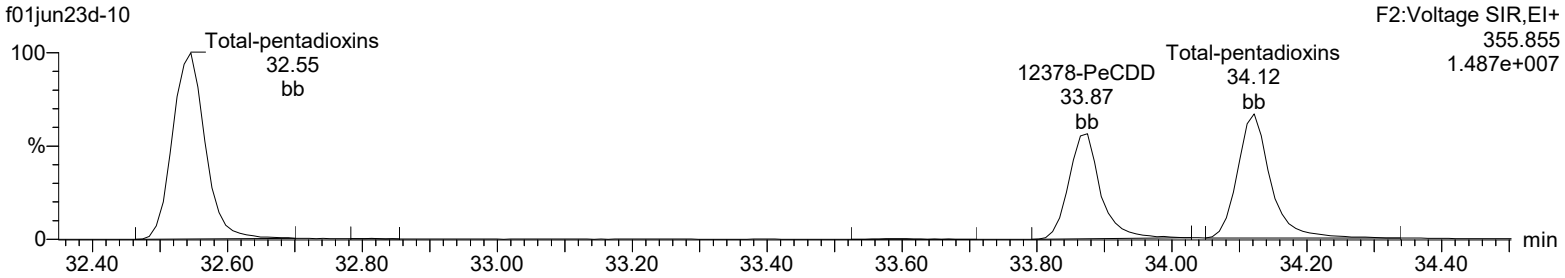
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

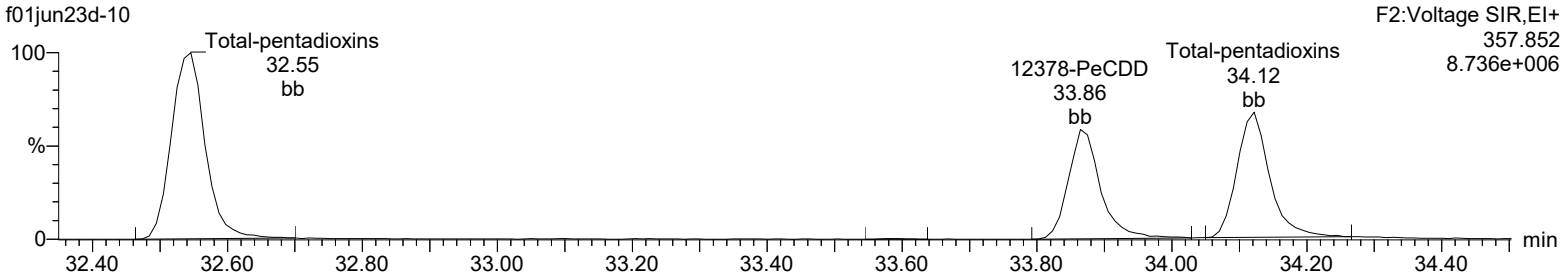
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

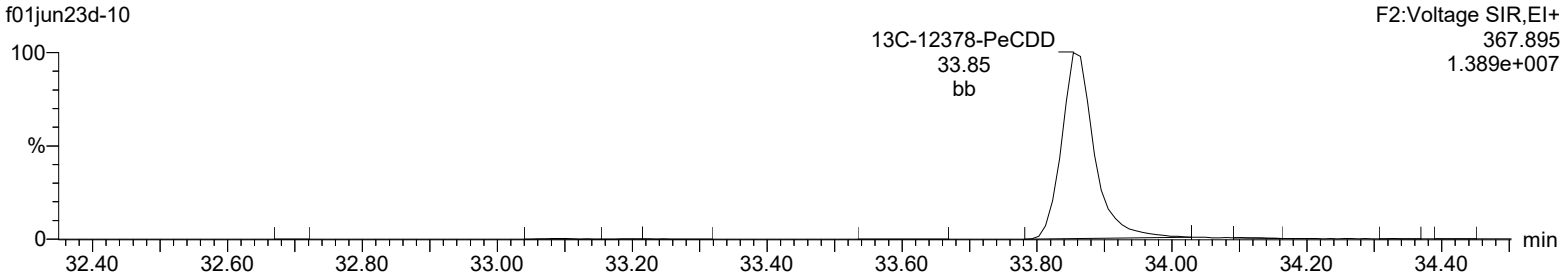
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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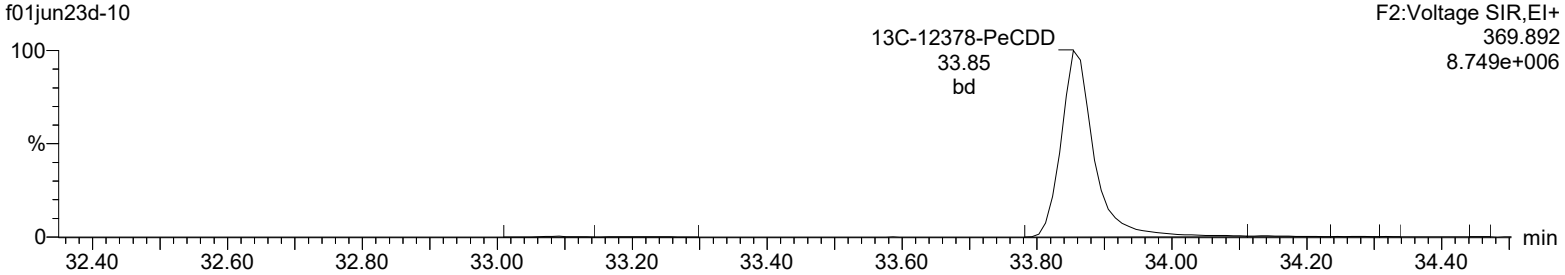
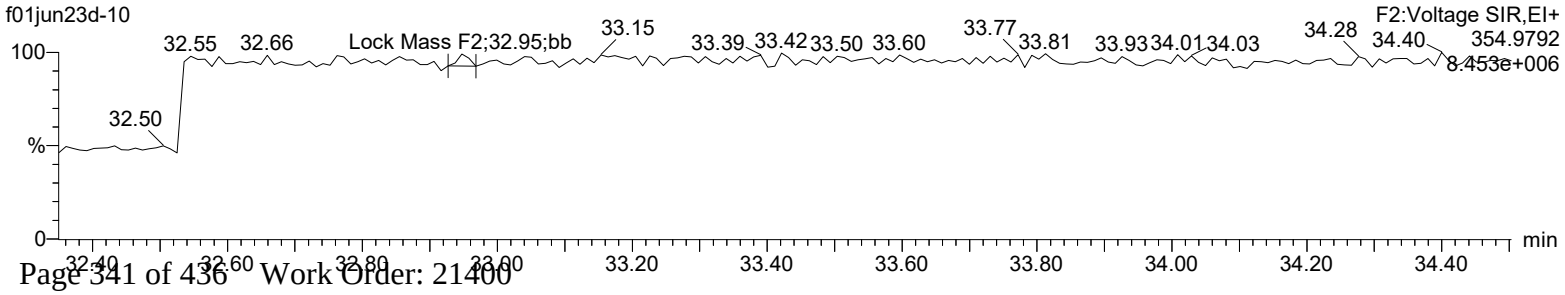


Lock Mass F2



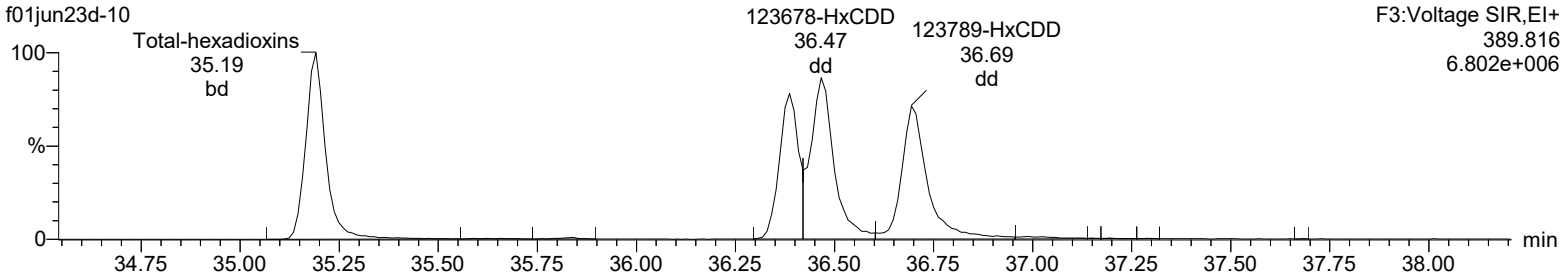
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

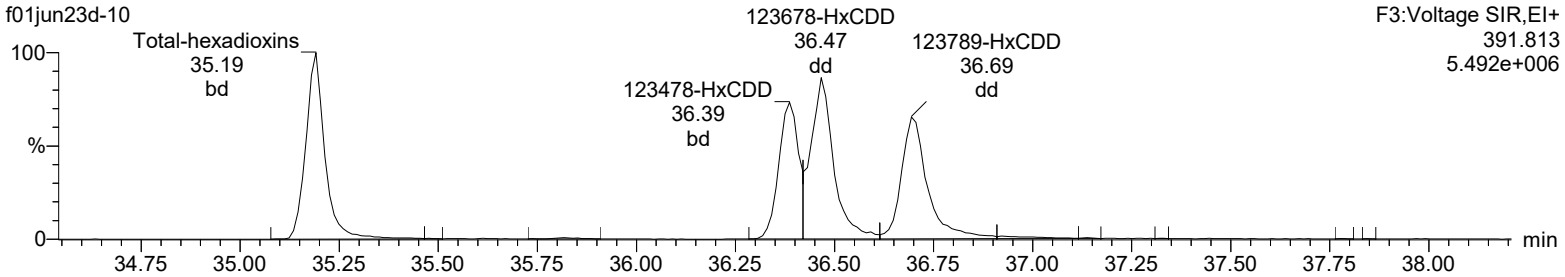
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

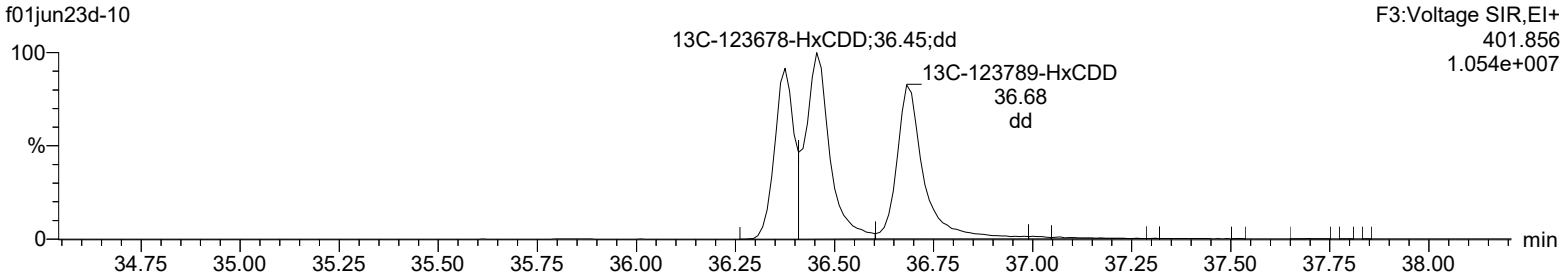
Total-hexadioxins



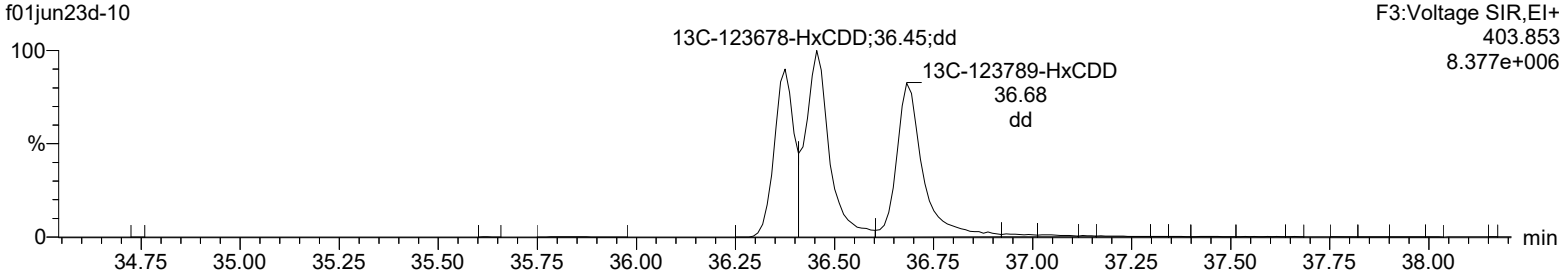
Total-hexadioxins



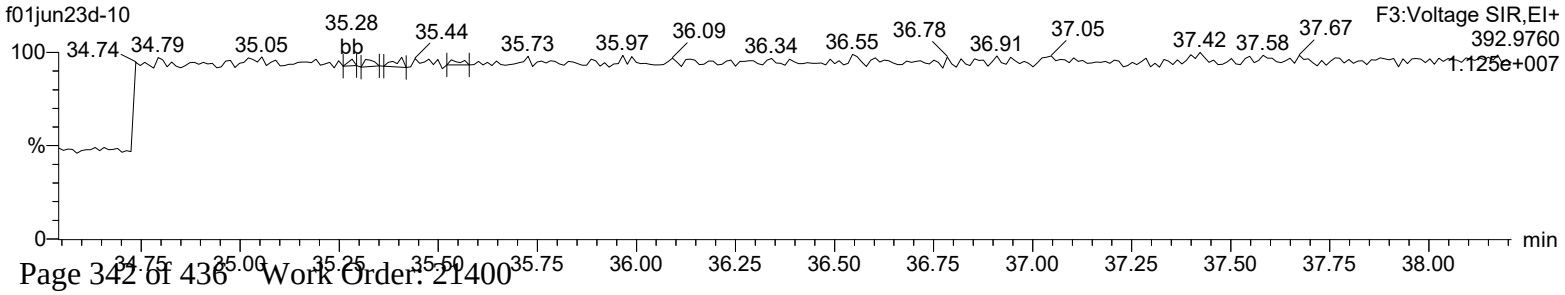
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



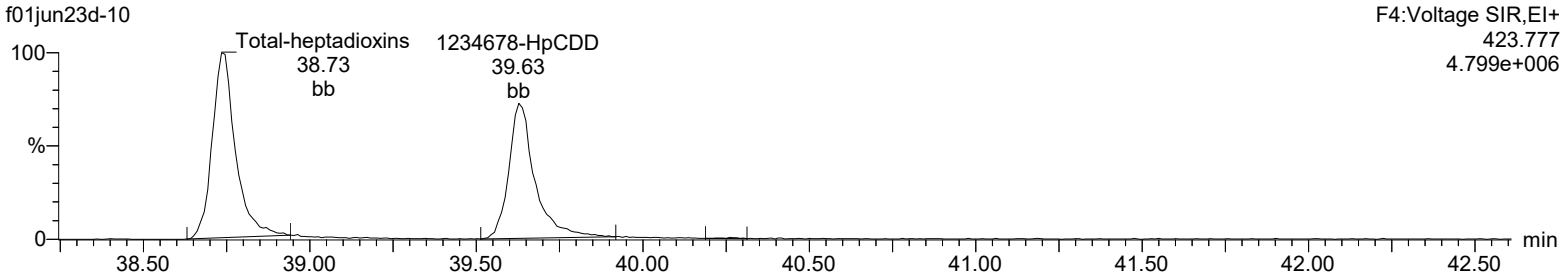
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

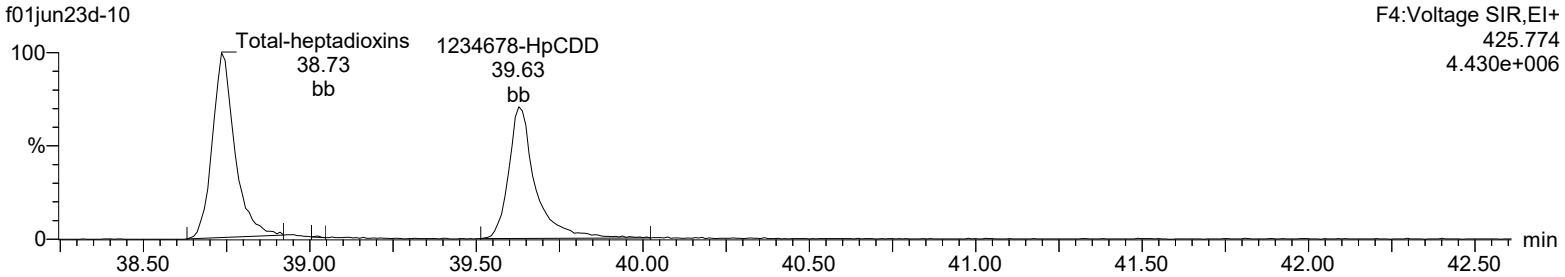
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

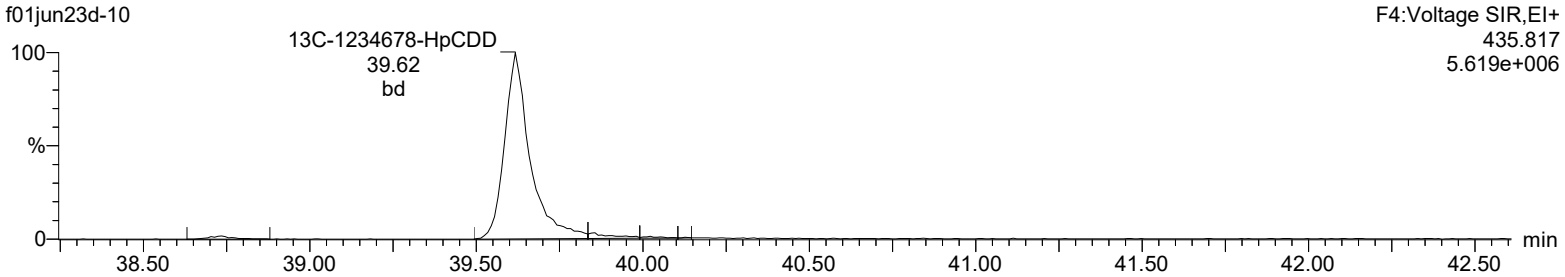
Total-heptadioxins



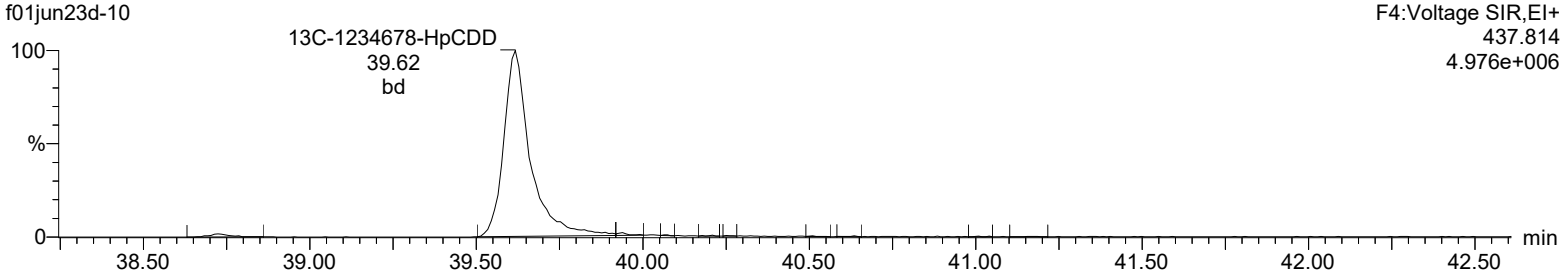
Total-heptadioxins



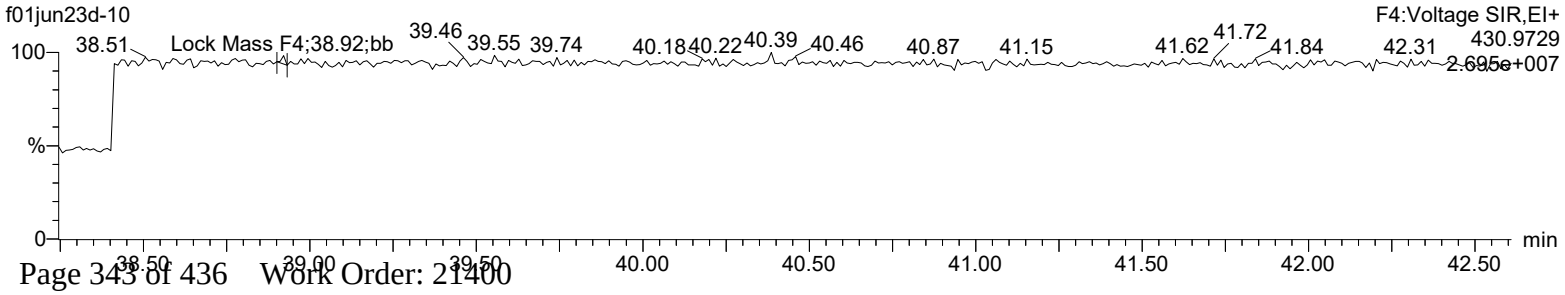
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



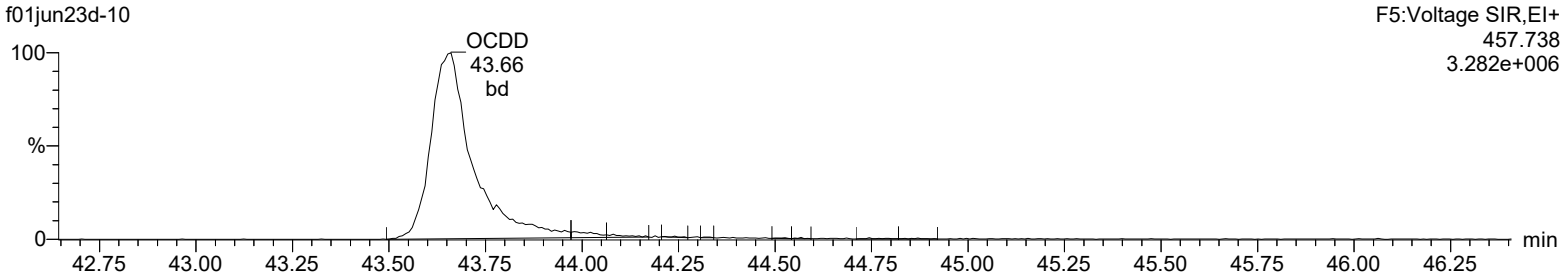
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

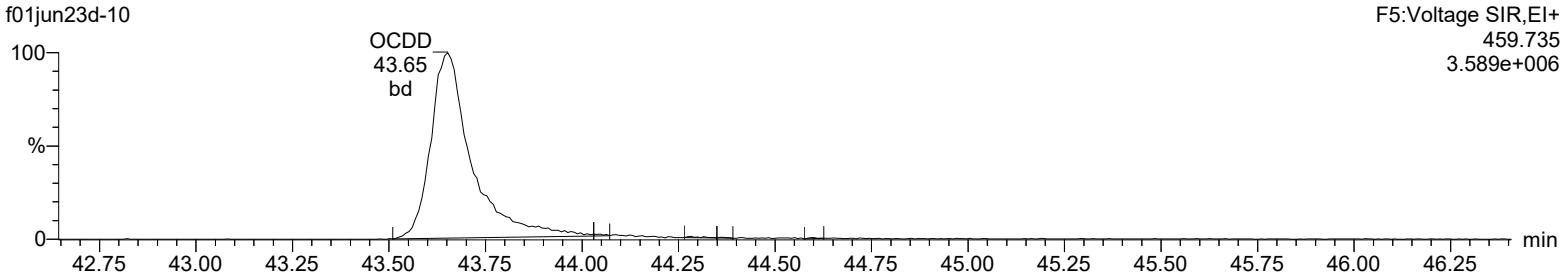
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

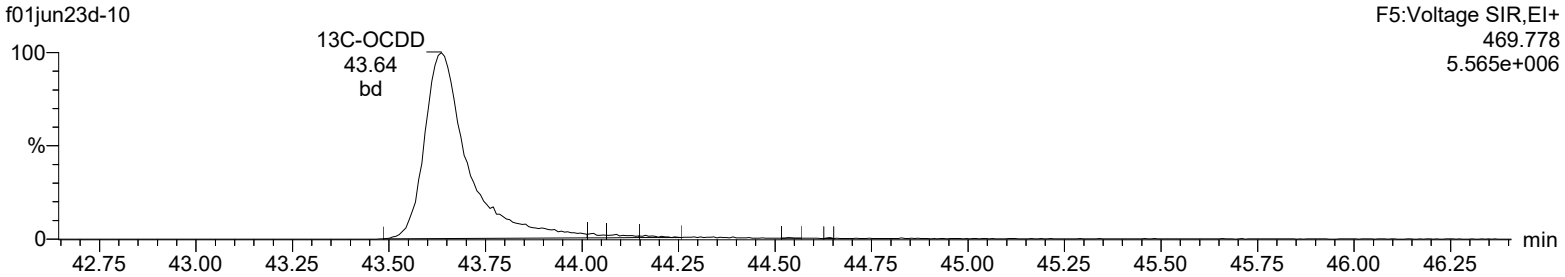
OCDD



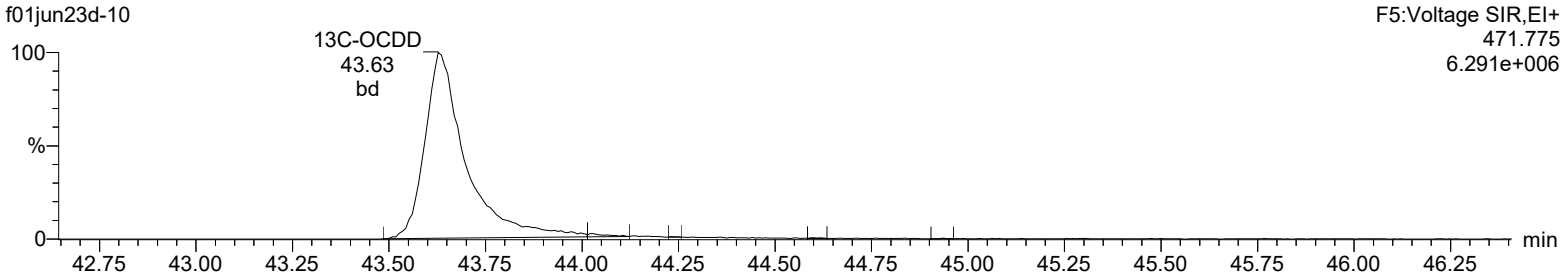
OCDD



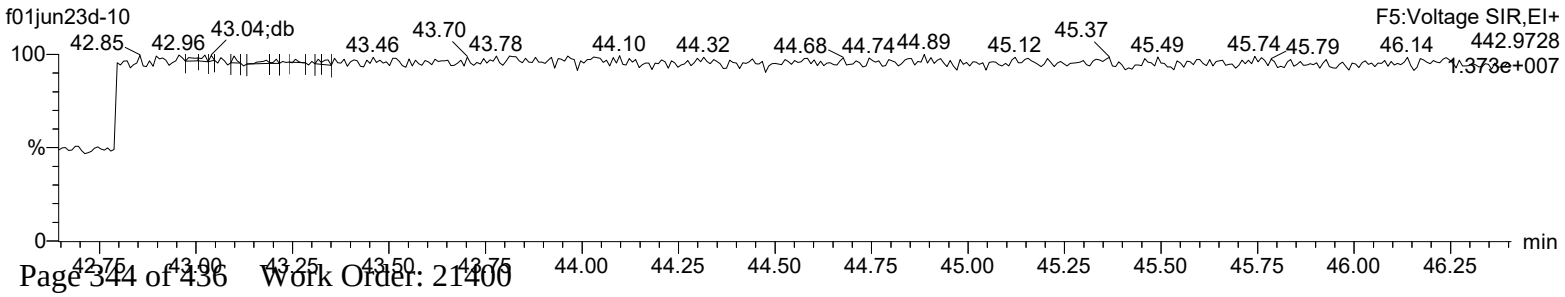
13C-OCDD



13C-OCDD



Lock Mass F5



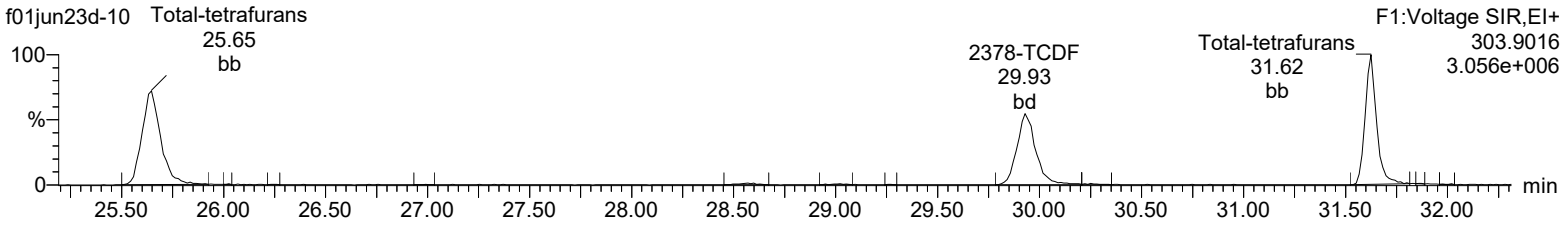
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

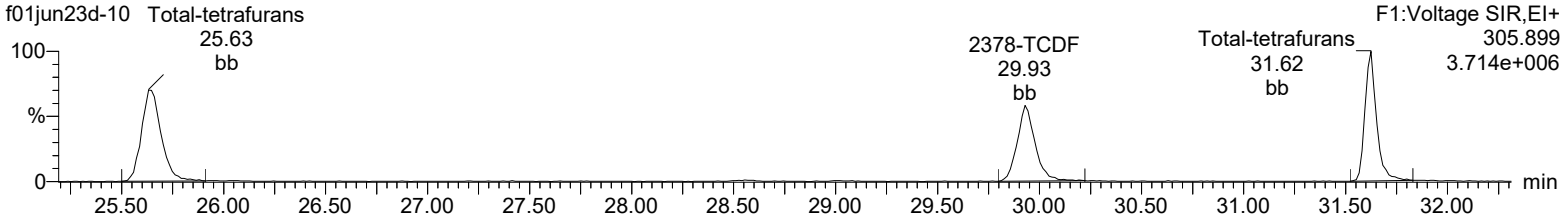
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

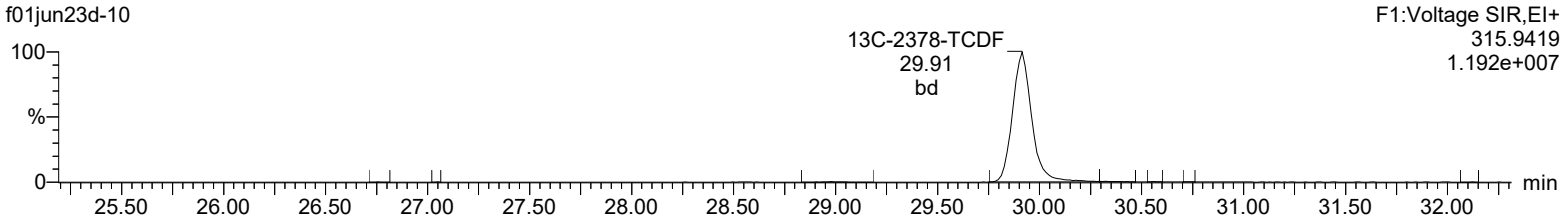
Total-tetrafurans



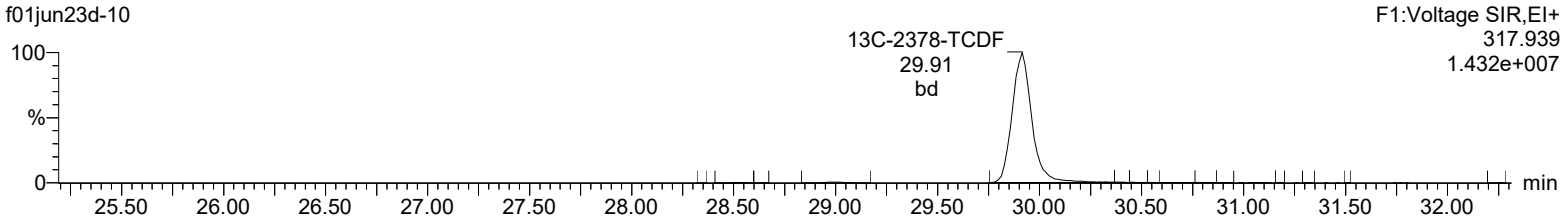
Total-tetrafurans



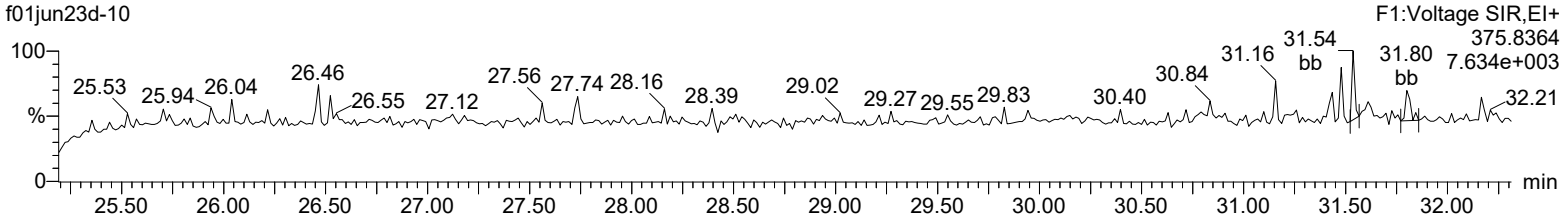
13C-2378-TCDF



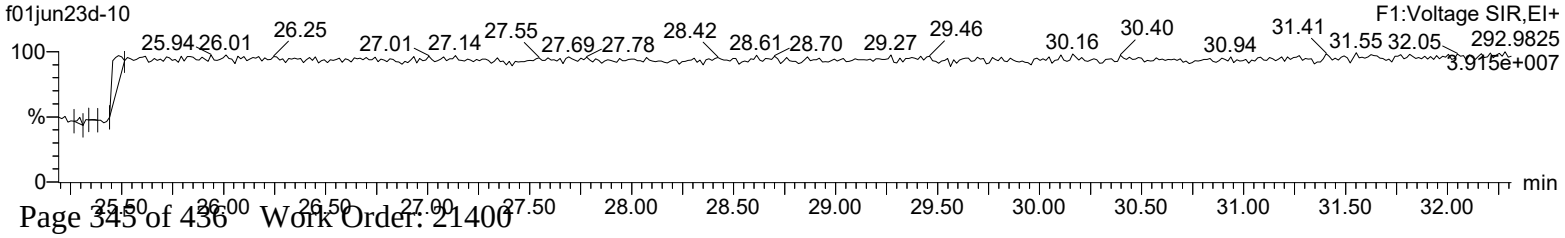
13C-2378-TCDF



HxDPE



Lock Mass F1



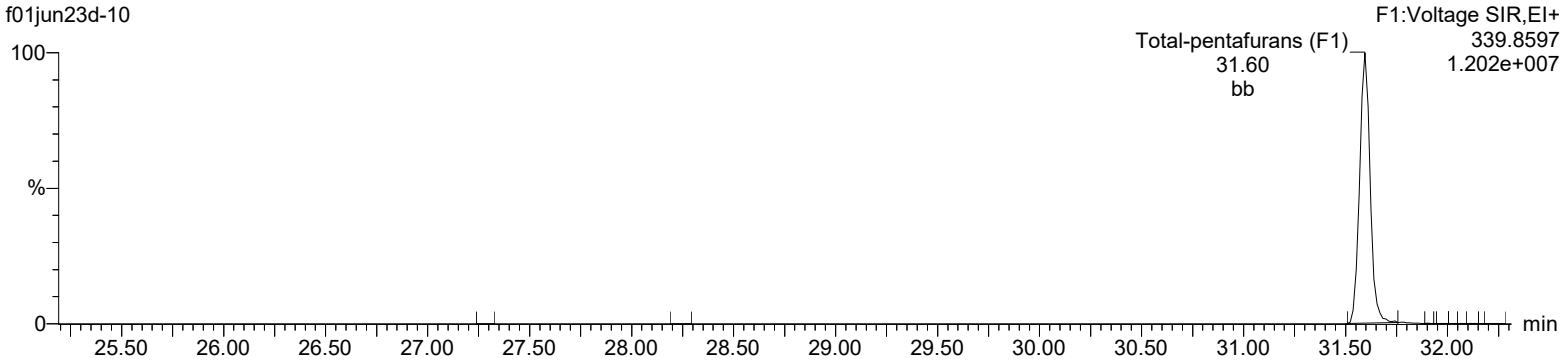
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

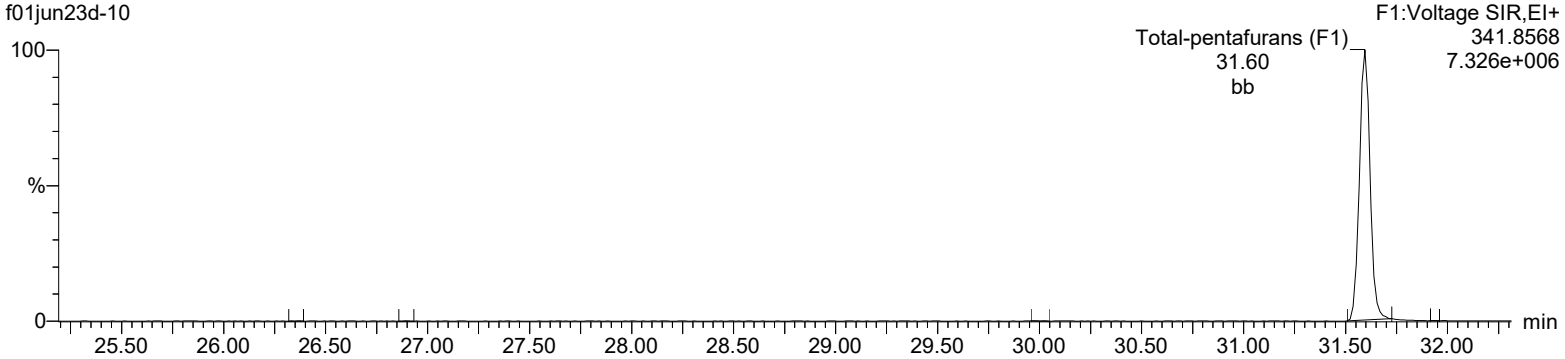
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

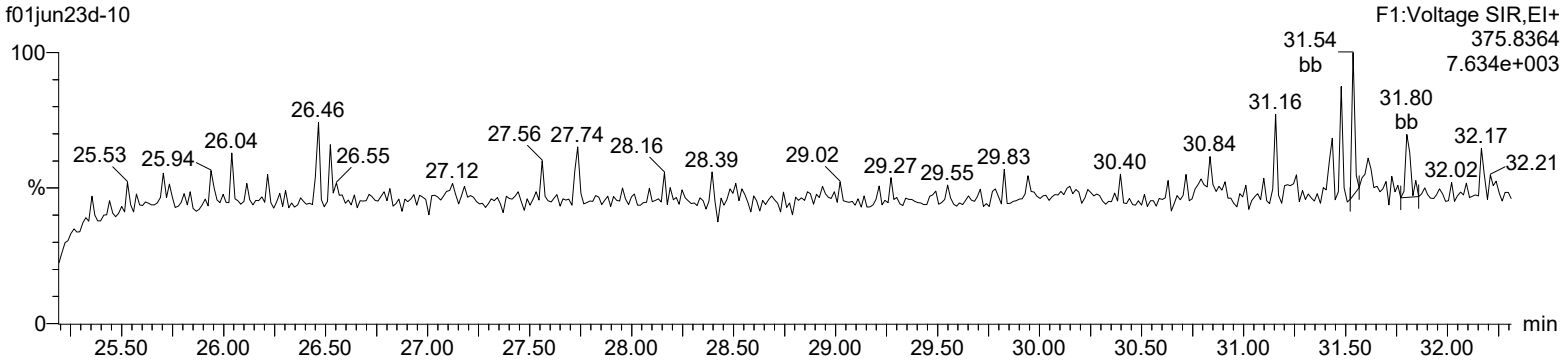
Total-pentafurans (F1)



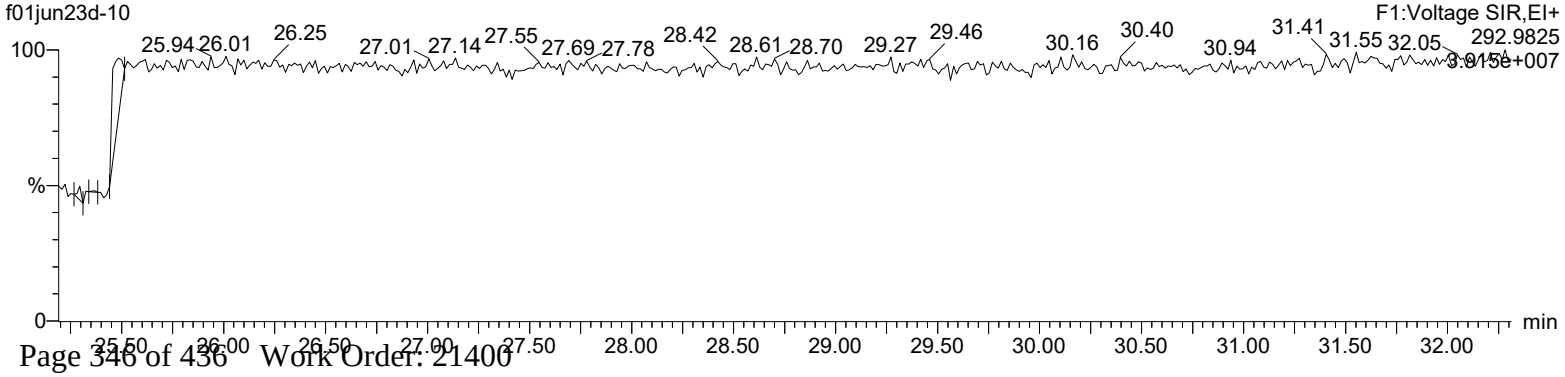
Total-pentafurans (F1)



HxDPE



Lock Mass F1



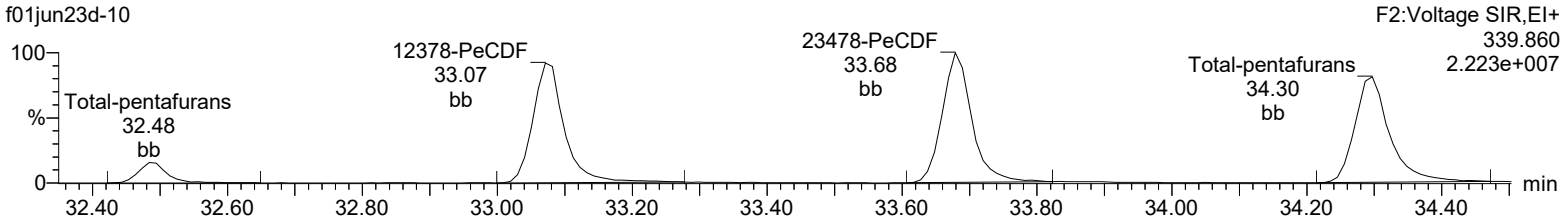
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

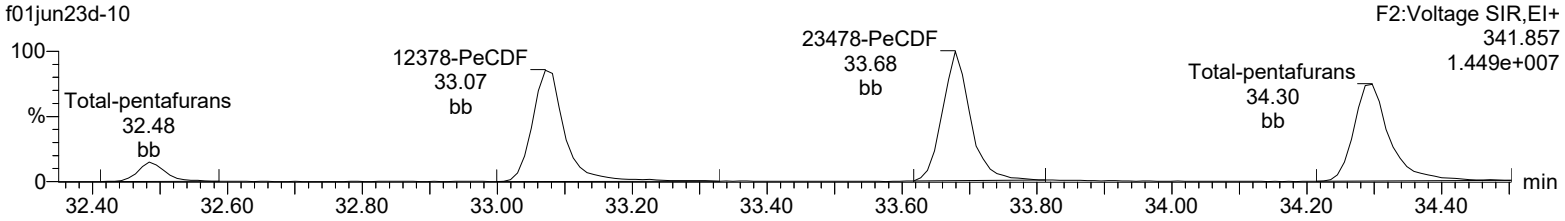
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

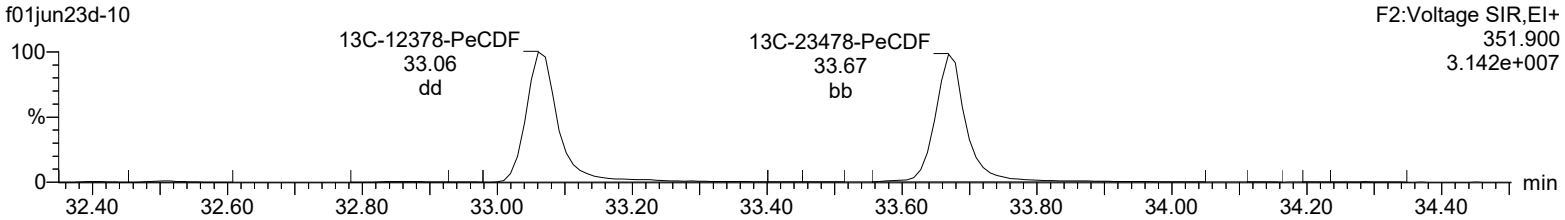
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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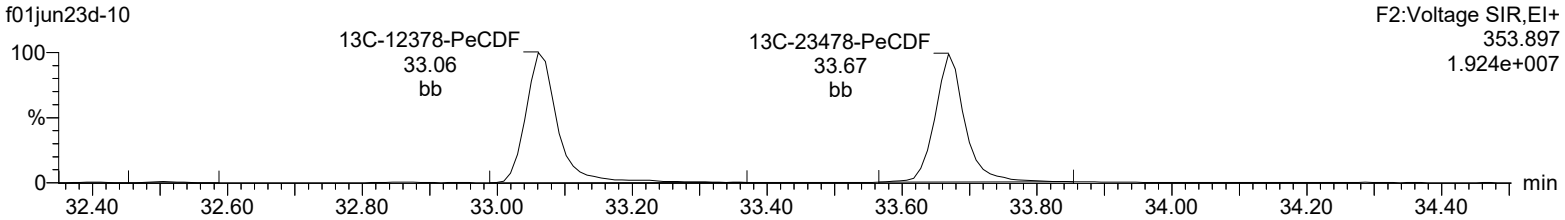
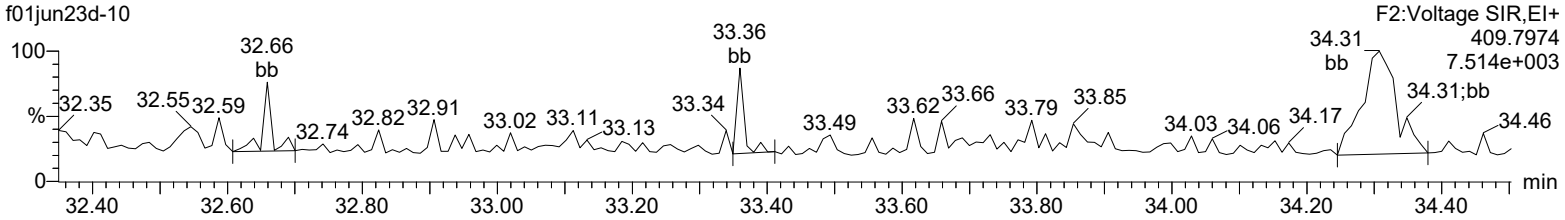
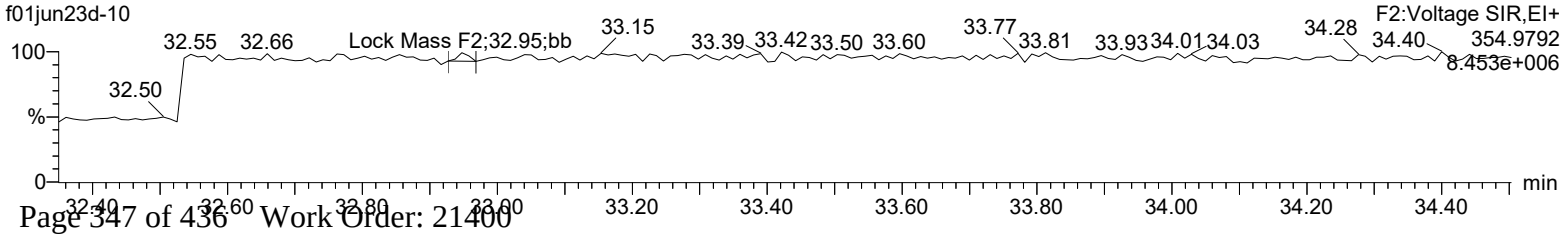


HpDPE



Lock Mass F2



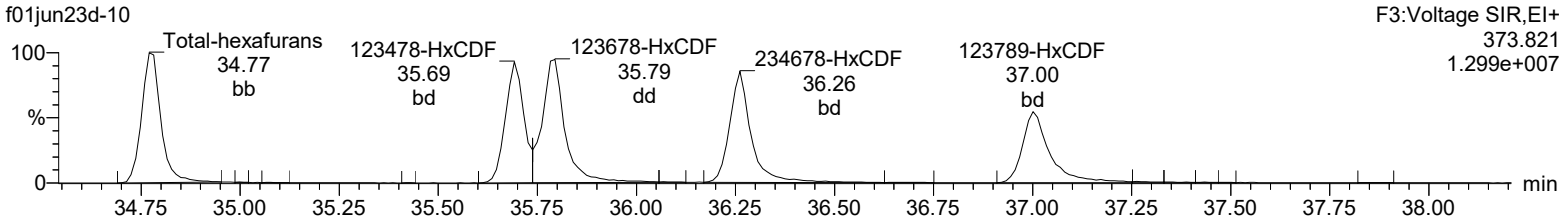
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

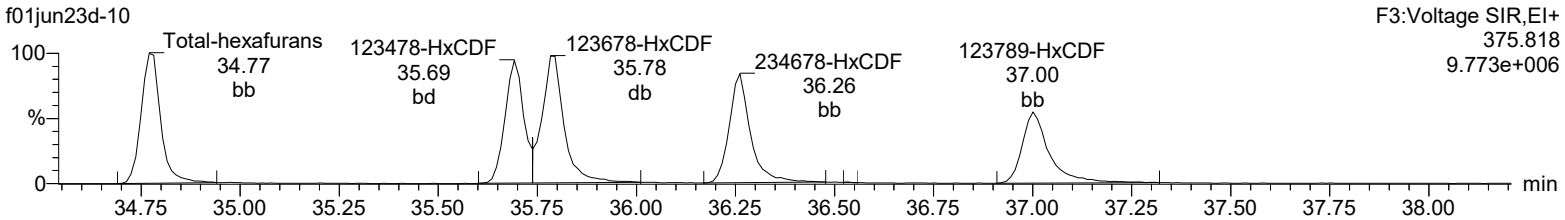
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

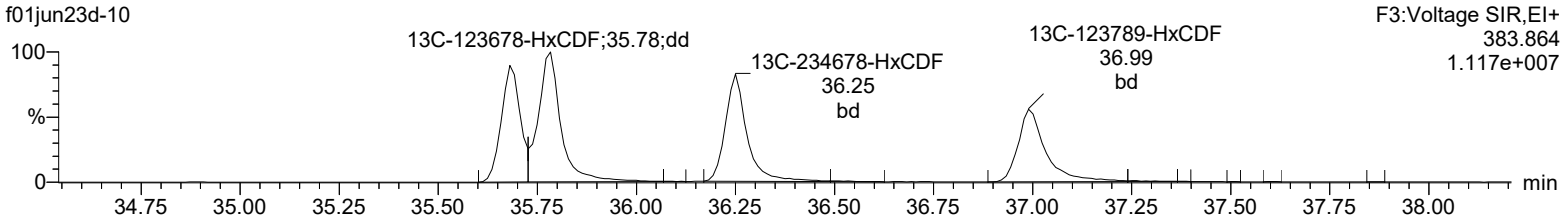
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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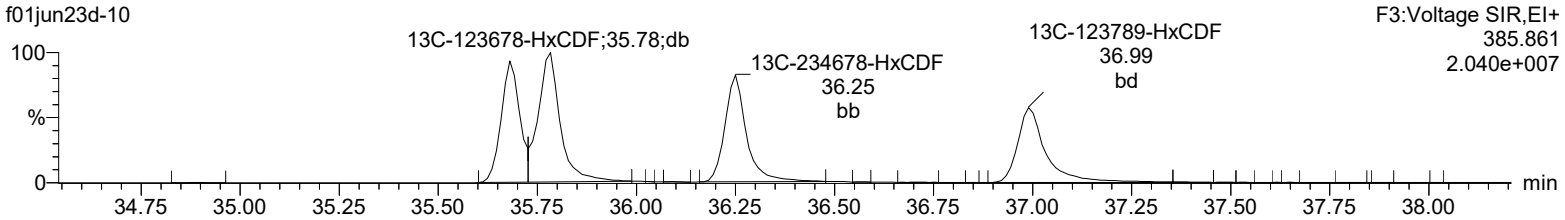
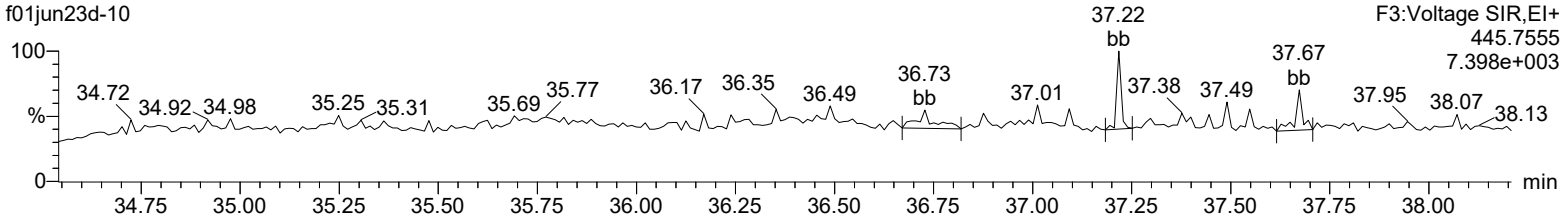
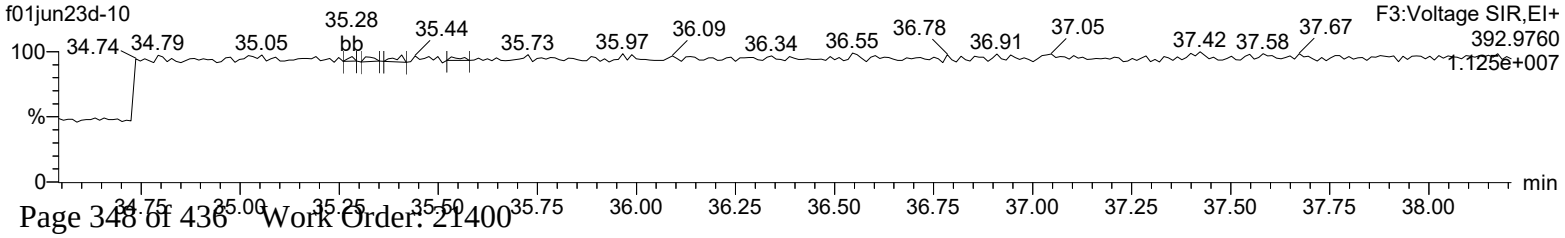


OcDPE



Lock Mass F3



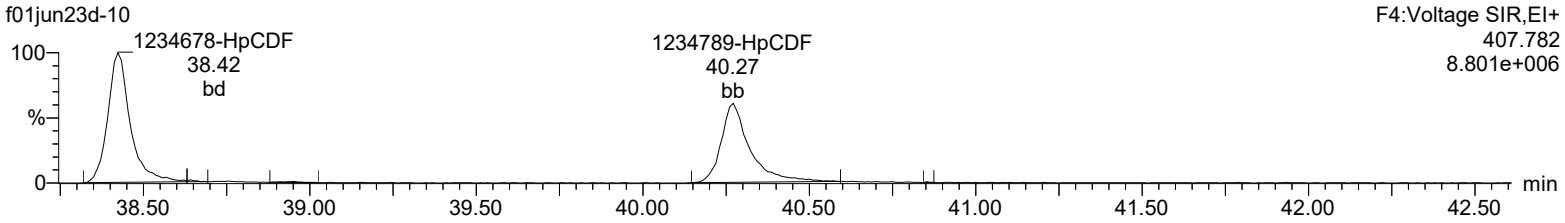
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

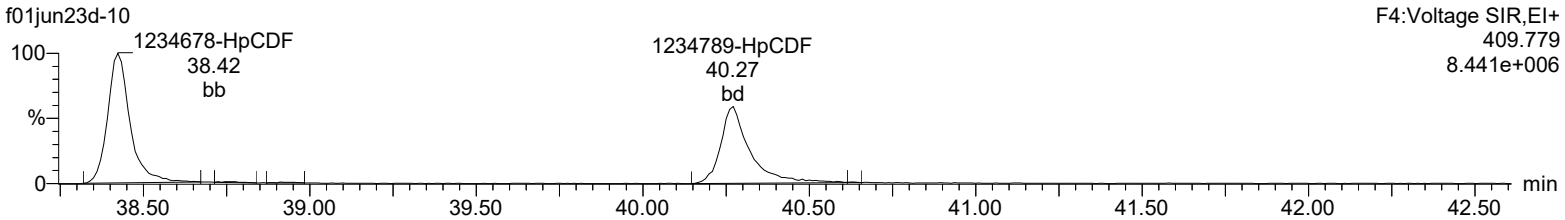
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

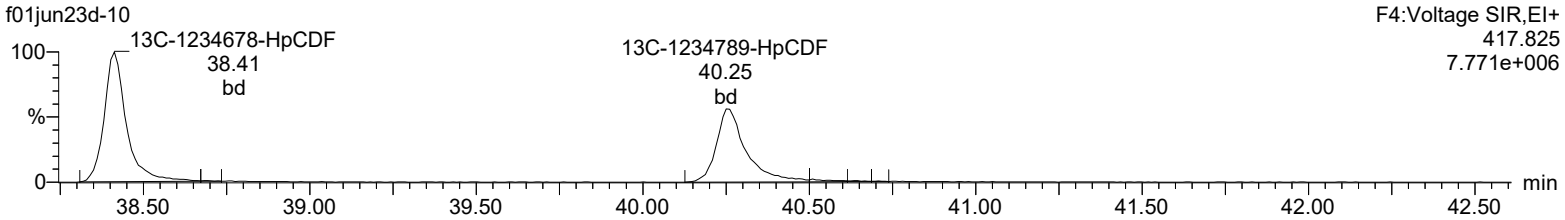
Total-heptafurans



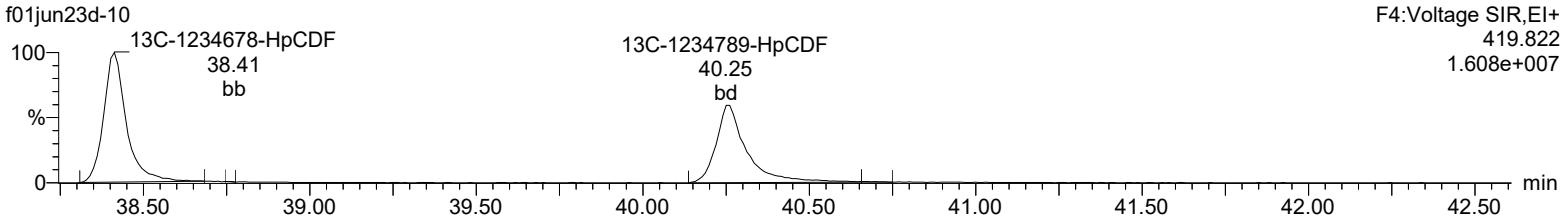
Total-heptafurans



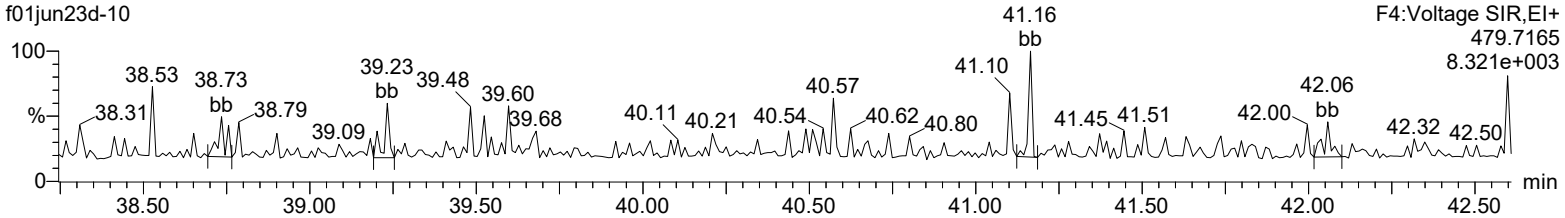
13C-1234678-HpCDF



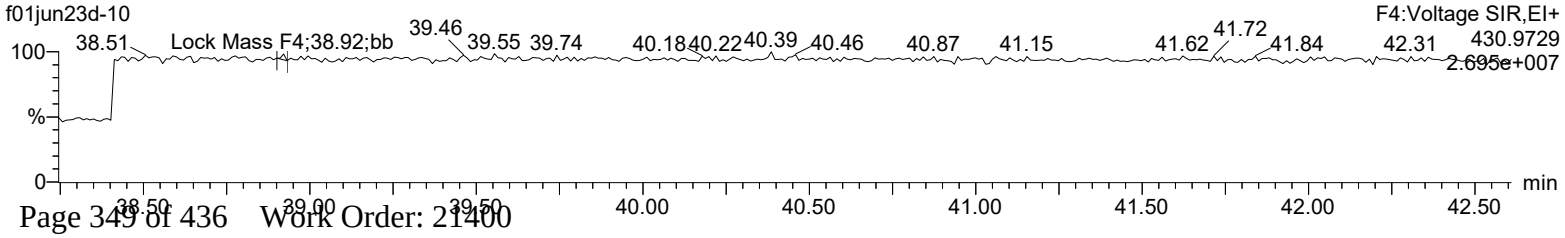
13C-1234678-HpCDF



NoDPE



Lock Mass F4



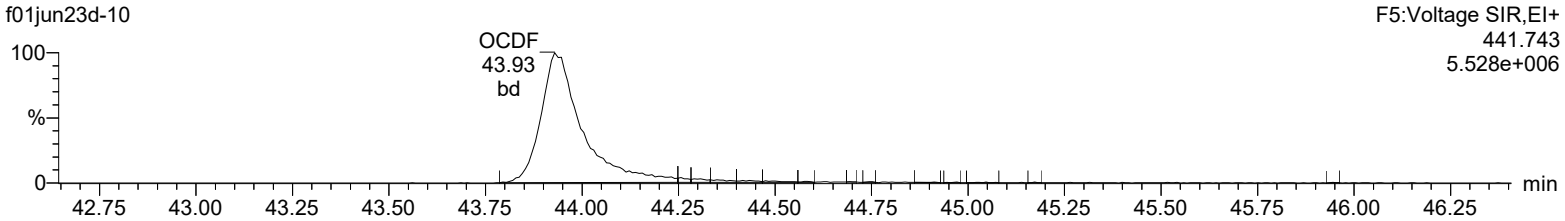
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

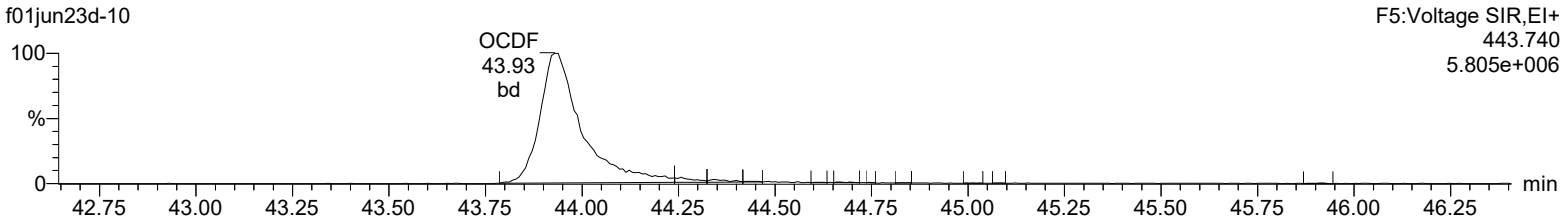
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

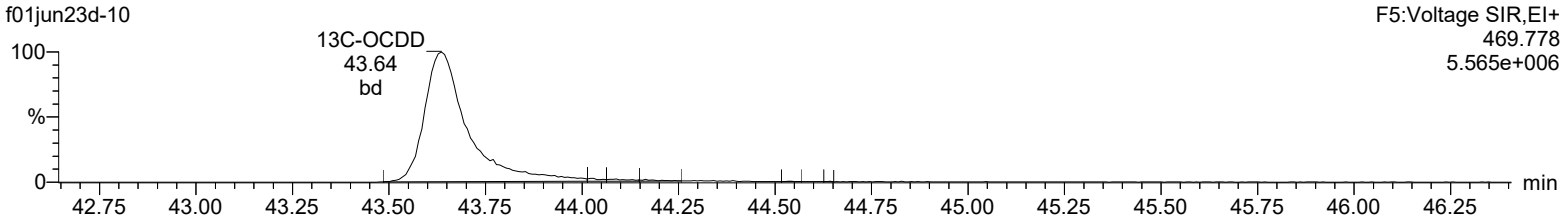
OCDF



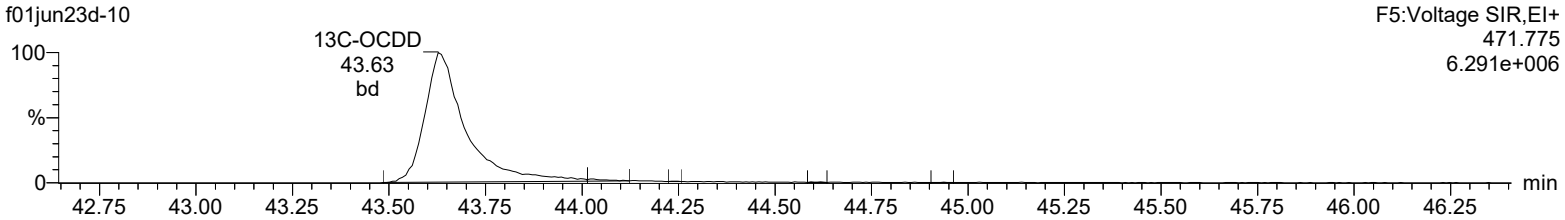
OCDF



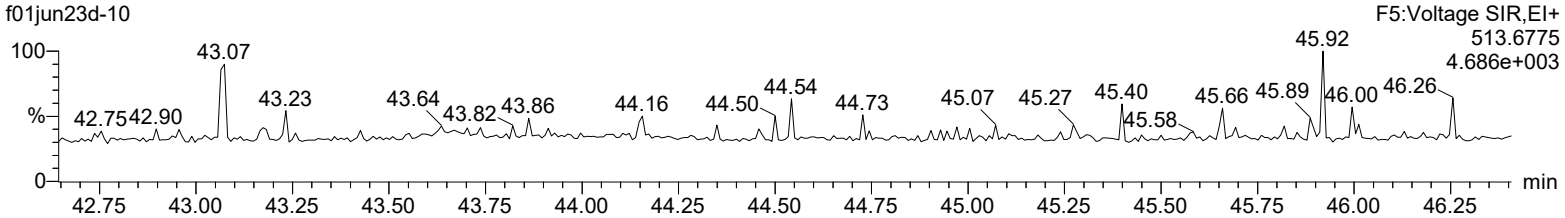
13C-OCDD



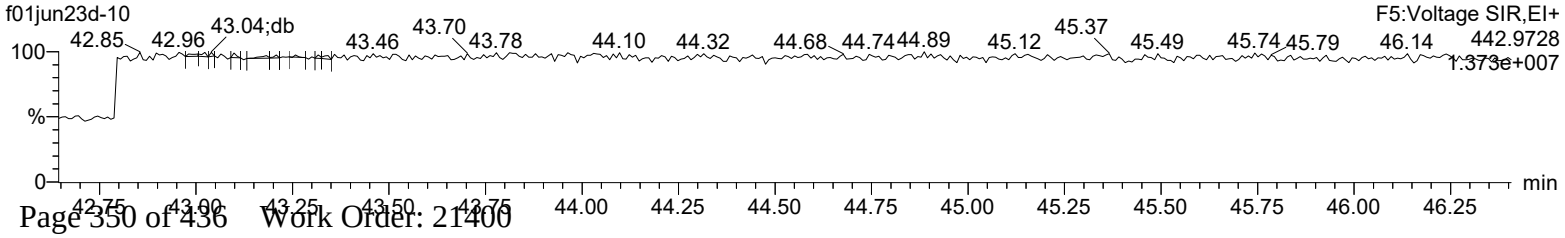
13C-OCDD



DeDPE



Lock Mass F5



Continuing Calibration Data

RUN LOG

Instrument: HRP722_2

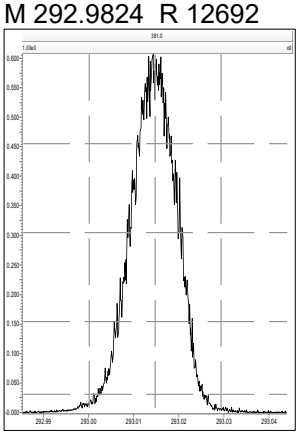
Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f23jun23a-1	23-JUN-2023 08:57:17	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-2	23-JUN-2023 09:45:28	Mallory Walton	12034318-1 LCSD	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-3	23-JUN-2023 10:33:37	Mallory Walton	21192013-1	52548	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-4	23-JUN-2023 11:22:34	Mallory Walton	21266003-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-5	23-JUN-2023 12:11:28	Mallory Walton	21266004-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-6	23-JUN-2023 13:00:22	Mallory Walton	21266005-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-7	23-JUN-2023 13:49:21	Mallory Walton	21266006-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-8	23-JUN-2023 14:38:16	Mallory Walton	21266007-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-9	23-JUN-2023 15:27:09	Mallory Walton	21266008-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-10	23-JUN-2023 16:16:04	Mallory Walton	21266009-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-11	23-JUN-2023 17:04:59	Mallory Walton	21266010-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-12	23-JUN-2023 17:53:59	Mallory Walton	21266011-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-13	23-JUN-2023 18:42:57	Mallory Walton	21266012-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-14	23-JUN-2023 19:31:53	Mallory Walton	21266013-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a-15	23-JUN-2023 20:20:48	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX

File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

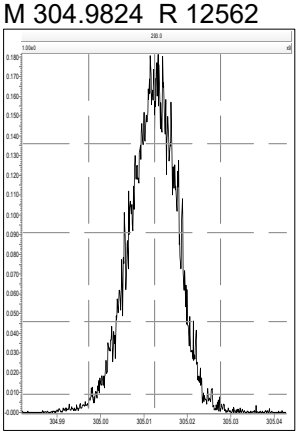
Printed: Friday, June 23, 2023 08:54:34 Eastern Daylight Time

06/23/2023 06/23/2023

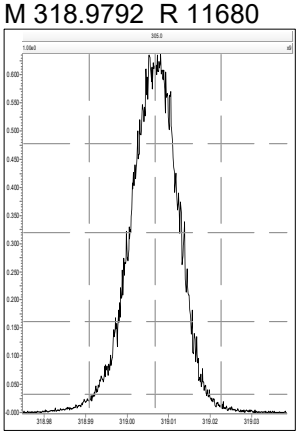
M 292.9824 R 12692



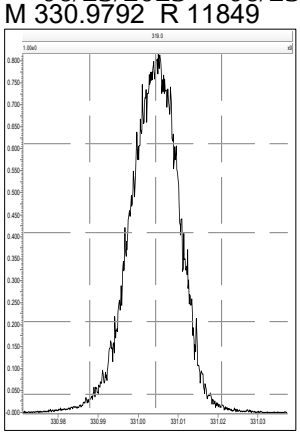
M 304.9824 R 12562



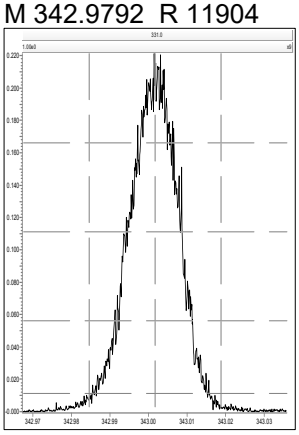
M 318.9792 R 11680



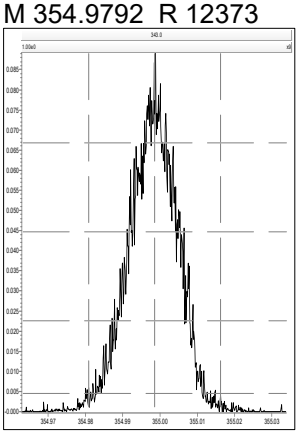
M 330.9792 R 11849



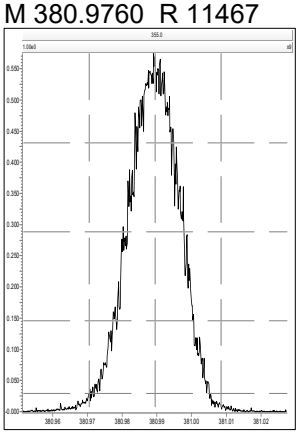
M 342.9792 R 11904



M 354.9792 R 12373



M 380.9760 R 11467

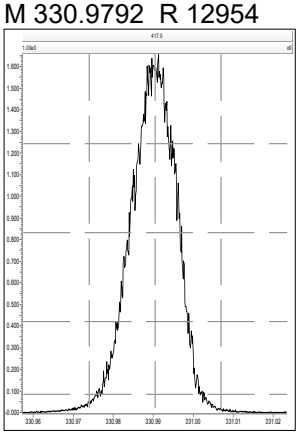


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

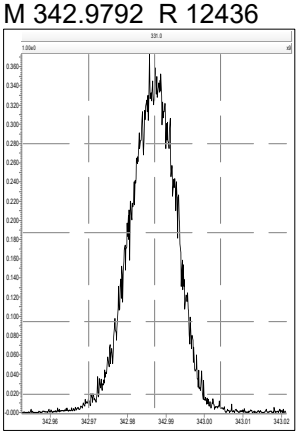
Printed: Friday, June 23, 2023 08:54:57 Eastern Daylight Time

06/23/2023 06/23/2023

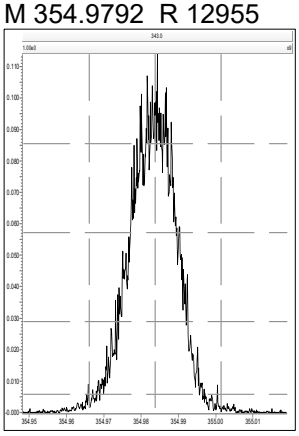
M 330.9792 R 12954



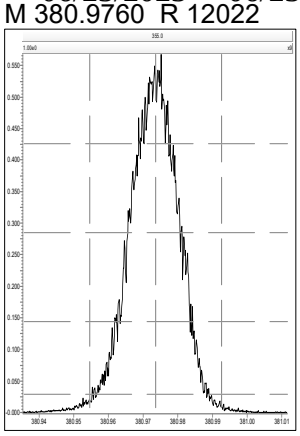
M 342.9792 R 12436



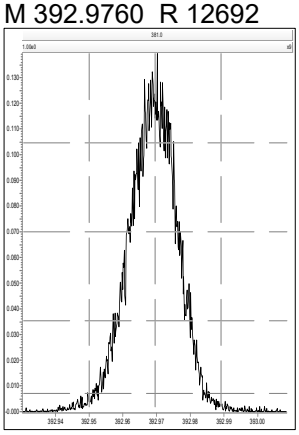
M 354.9792 R 12955



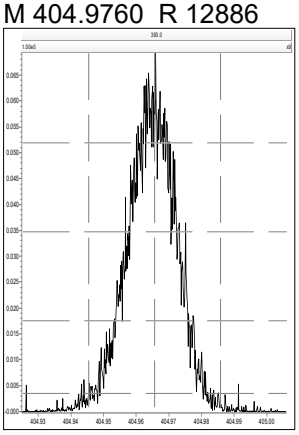
M 380.9760 R 12022



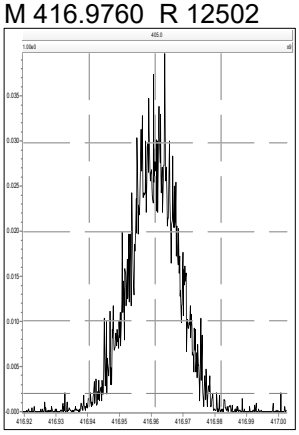
M 392.9760 R 12692



M 404.9760 R 12886



M 416.9760 R 12502

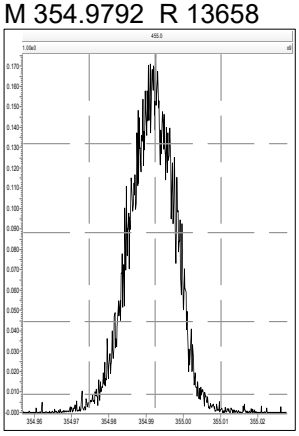


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

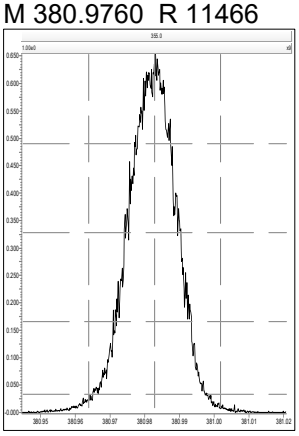
Printed: Friday, June 23, 2023 08:55:20 Eastern Daylight Time

06/23/2023 06/23/2023

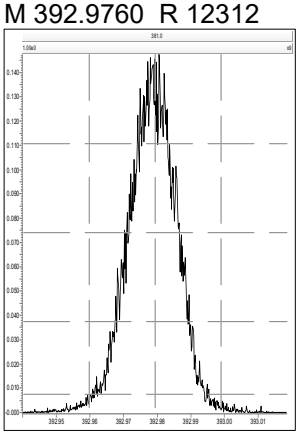
M 354.9792 R 13658



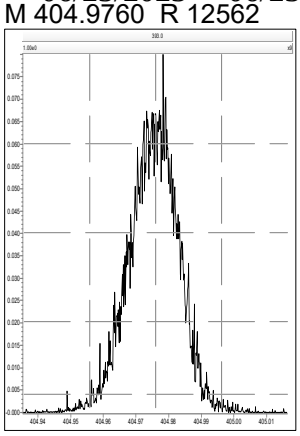
M 380.9760 R 11466



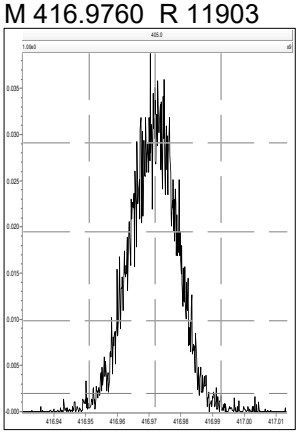
M 392.9760 R 12312



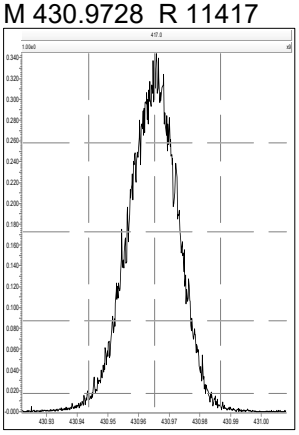
M 404.9760 R 12562



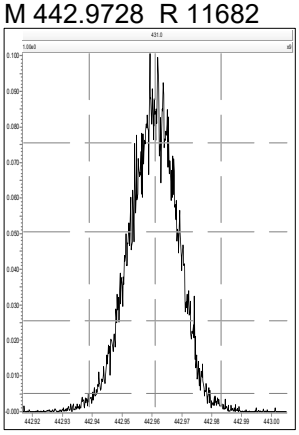
M 416.9760 R 11903



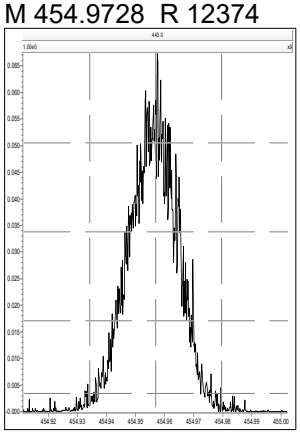
M 430.9728 R 11417



M 442.9728 R 11682



M 454.9728 R 12374



File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, June 23, 2023 08:55:44 Eastern Daylight Time

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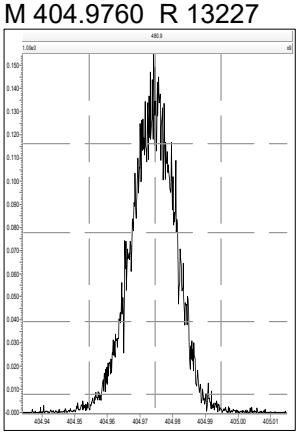
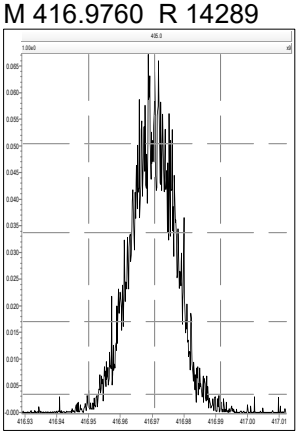
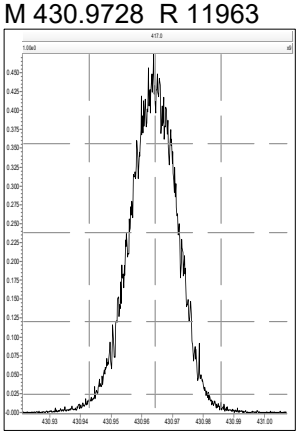
M 404.9760 R 13227



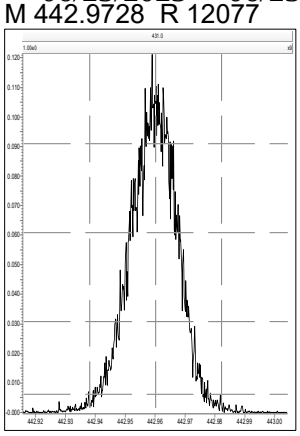
M 416.9760 R 14289



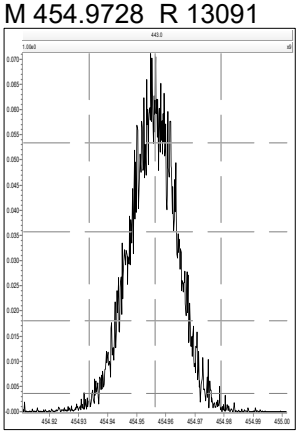
M 430.9728 R 11963



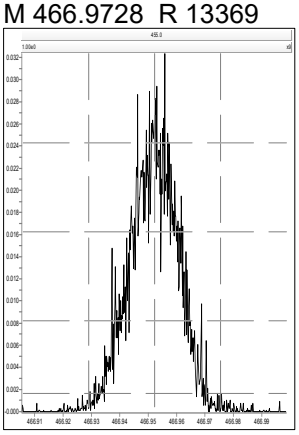
M 442.9728 R 12077



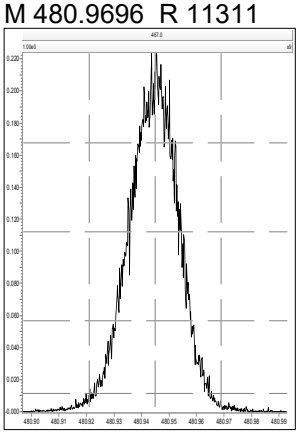
M 454.9728 R 13091



M 466.9728 R 13369



M 480.9696 R 11311



File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

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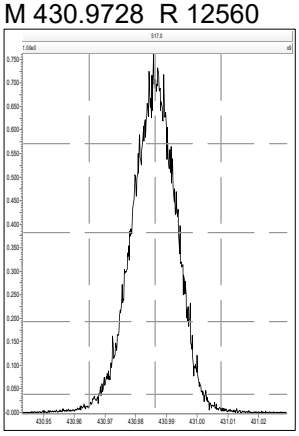
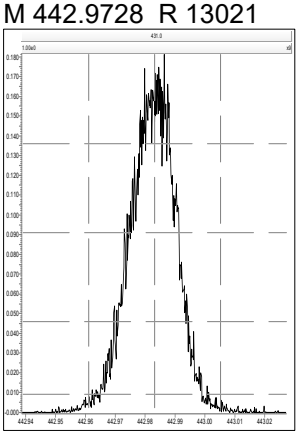
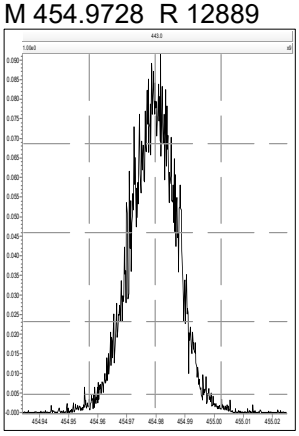
M 430.9728 R 12560



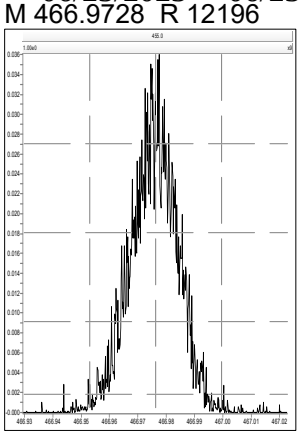
M 442.9728 R 13021



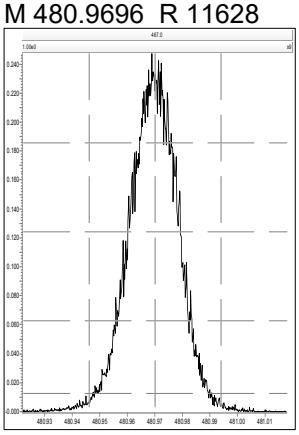
M 454.9728 R 12889



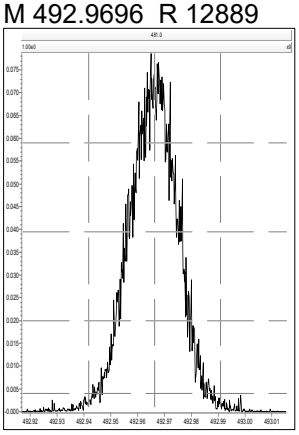
M 466.9728 R 12196



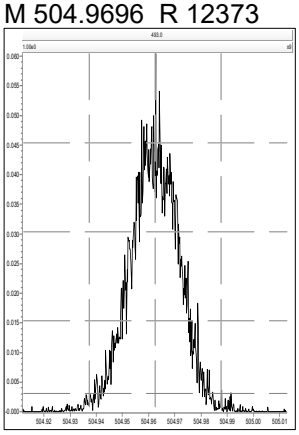
M 480.9696 R 11628



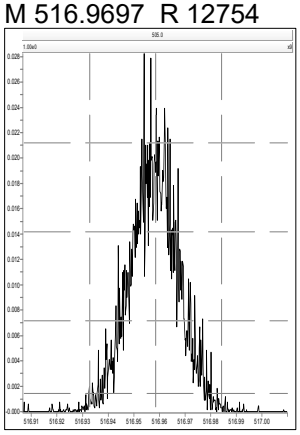
M 492.9696 R 12889



M 504.9696 R 12373



M 516.9697 R 12754



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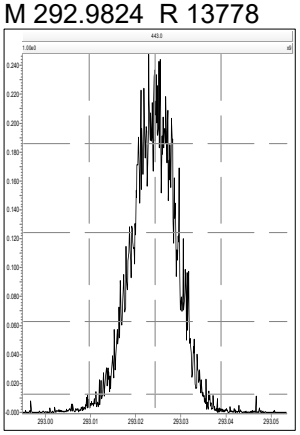
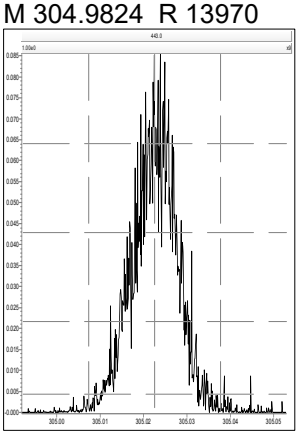
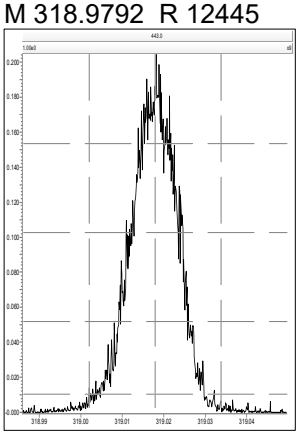
M 292.9824 R 13778



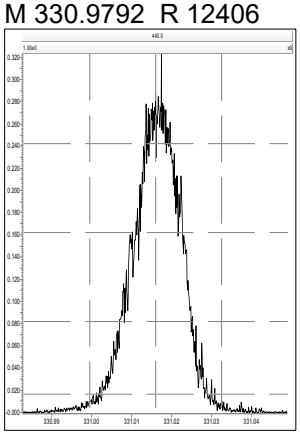
M 304.9824 R 13970



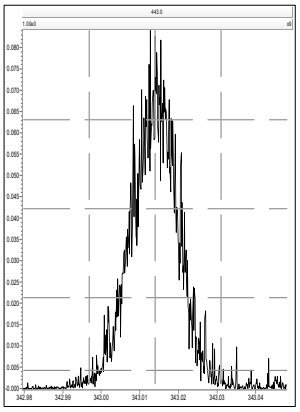
M 318.9792 R 12445



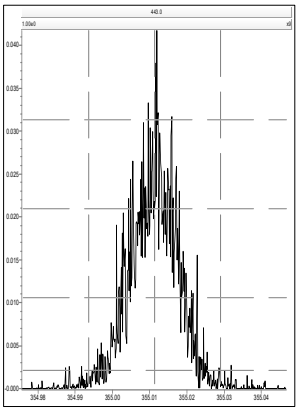
M 330.9792 R 12406



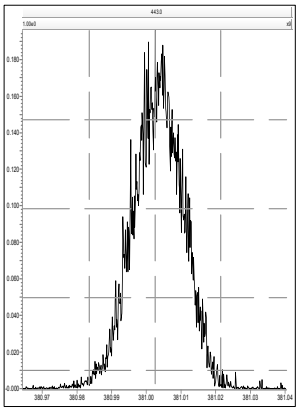
M 342.9792 R 12921



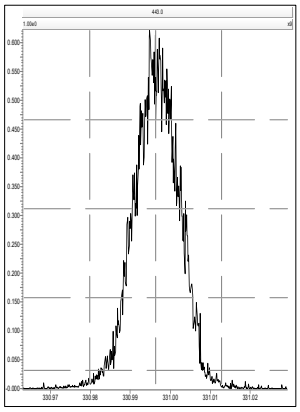
M 354.9792 R 14247



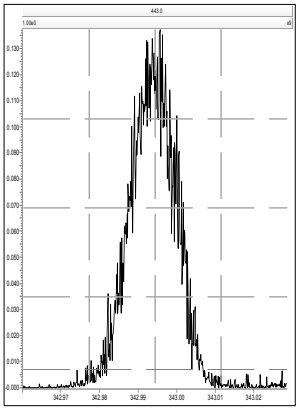
M 380.9760 R 12167



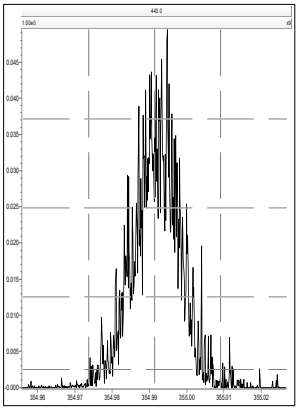
M 330.9792 R 13158



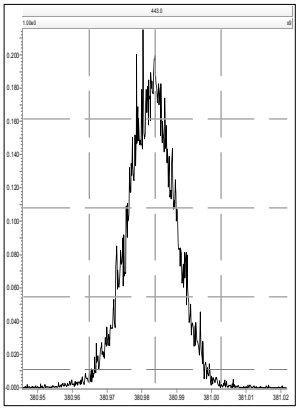
M 342.9792 R 13273



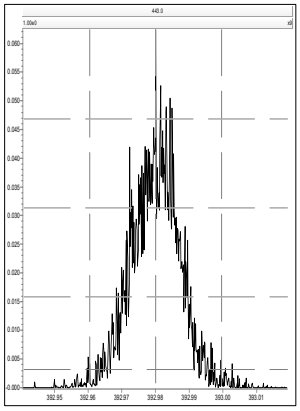
M 354.9792 R 13889



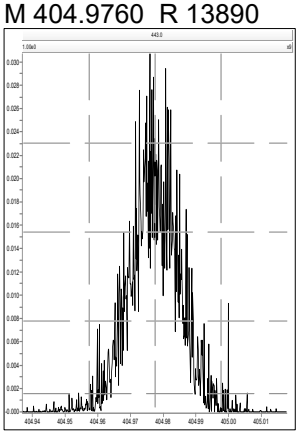
M 380.9760 R 12106



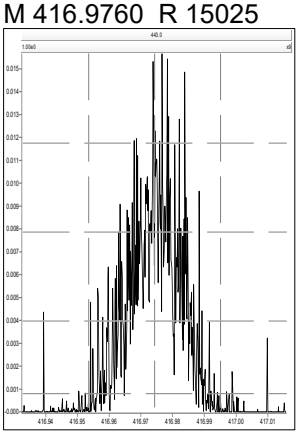
M 392.9760 R 14029



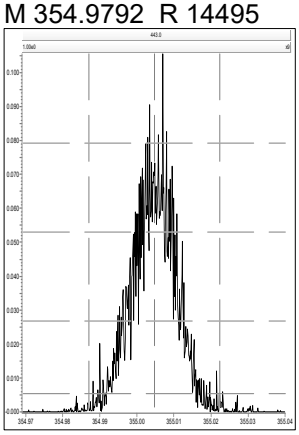
M 404.9760 R 13890



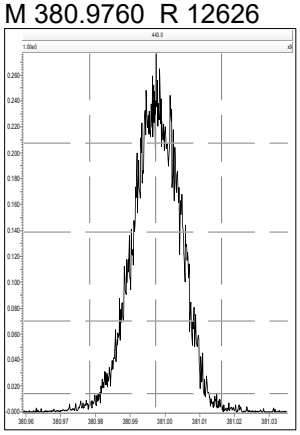
M 416.9760 R 15025



M 354.9792 R 14495



M 380.9760 R 12626



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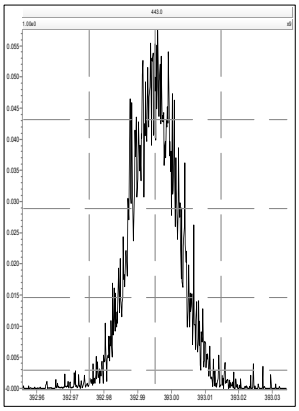
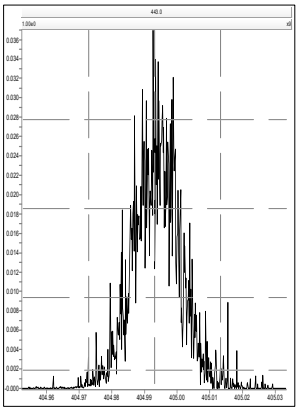
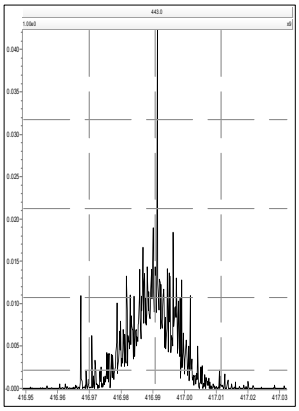
M 392.9760 R 13378



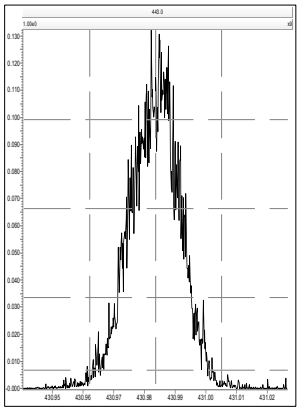
M 404.9760 R 14018



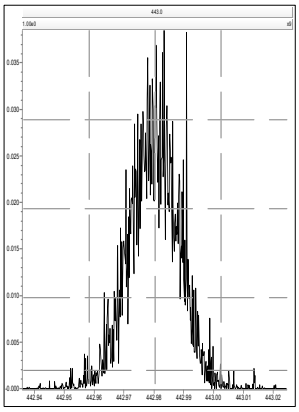
M 416.9760 R 16244



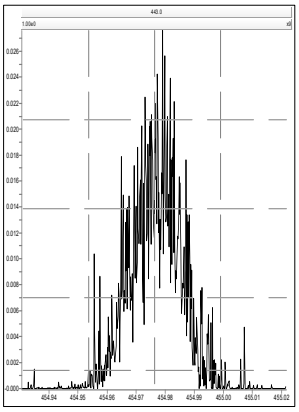
M 430.9728 R 12315



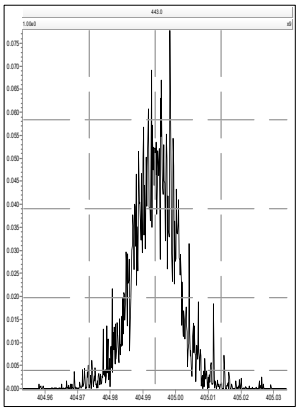
M 442.9728 R 13049



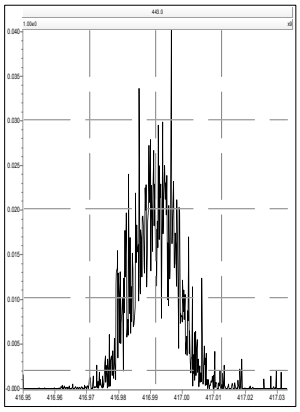
M 454.9728 R 14792



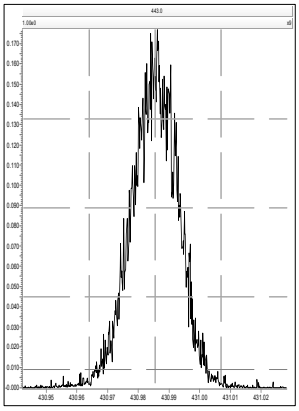
M 404.9760 R 15728



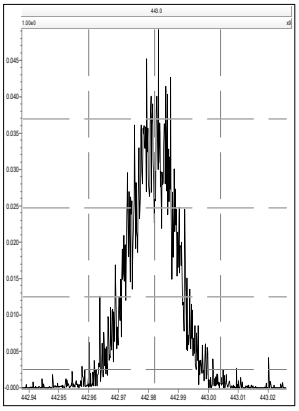
M 416.9760 R 16345



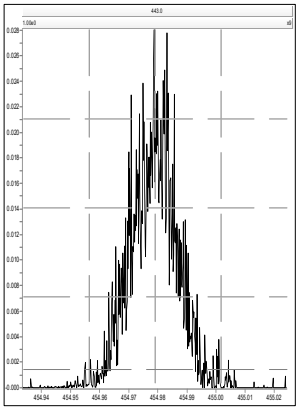
M 430.9728 R 12481



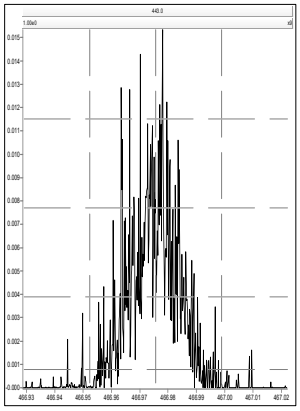
M 442.9728 R 14253



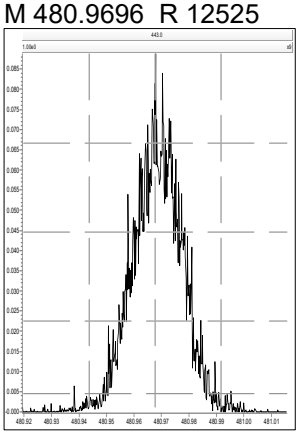
M 454.9728 R 15228



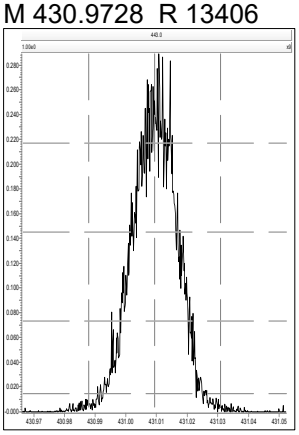
M 466.9728 R 17733



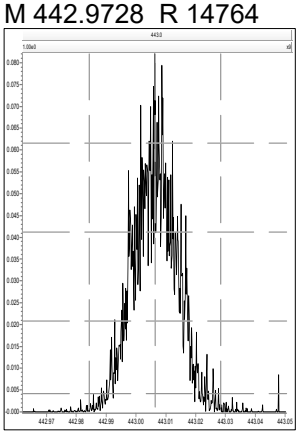
M 480.9696 R 12525



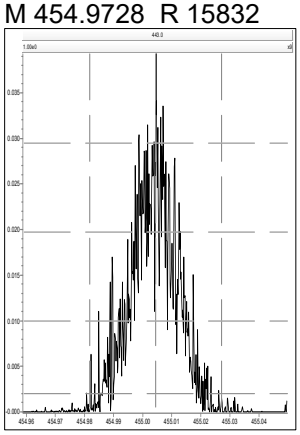
M 430.9728 R 13406



M 442.9728 R 14764



M 454.9728 R 15832



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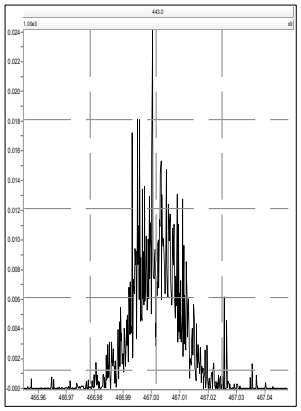
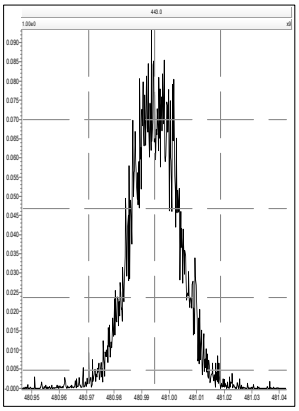
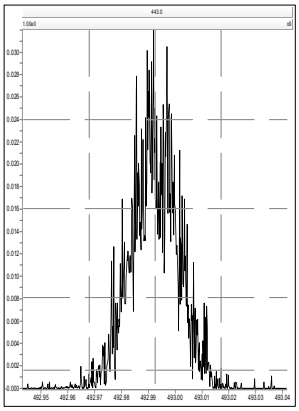
M 466.9728 R 16124



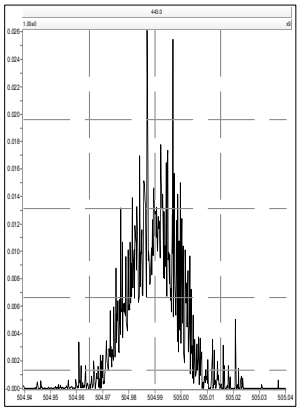
M 480.9696 R 12886



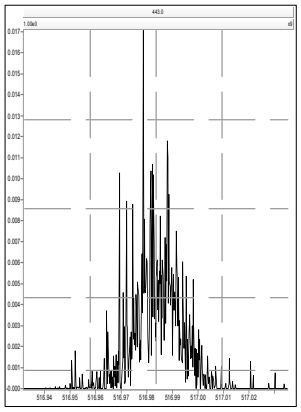
M 492.9696 R 15812



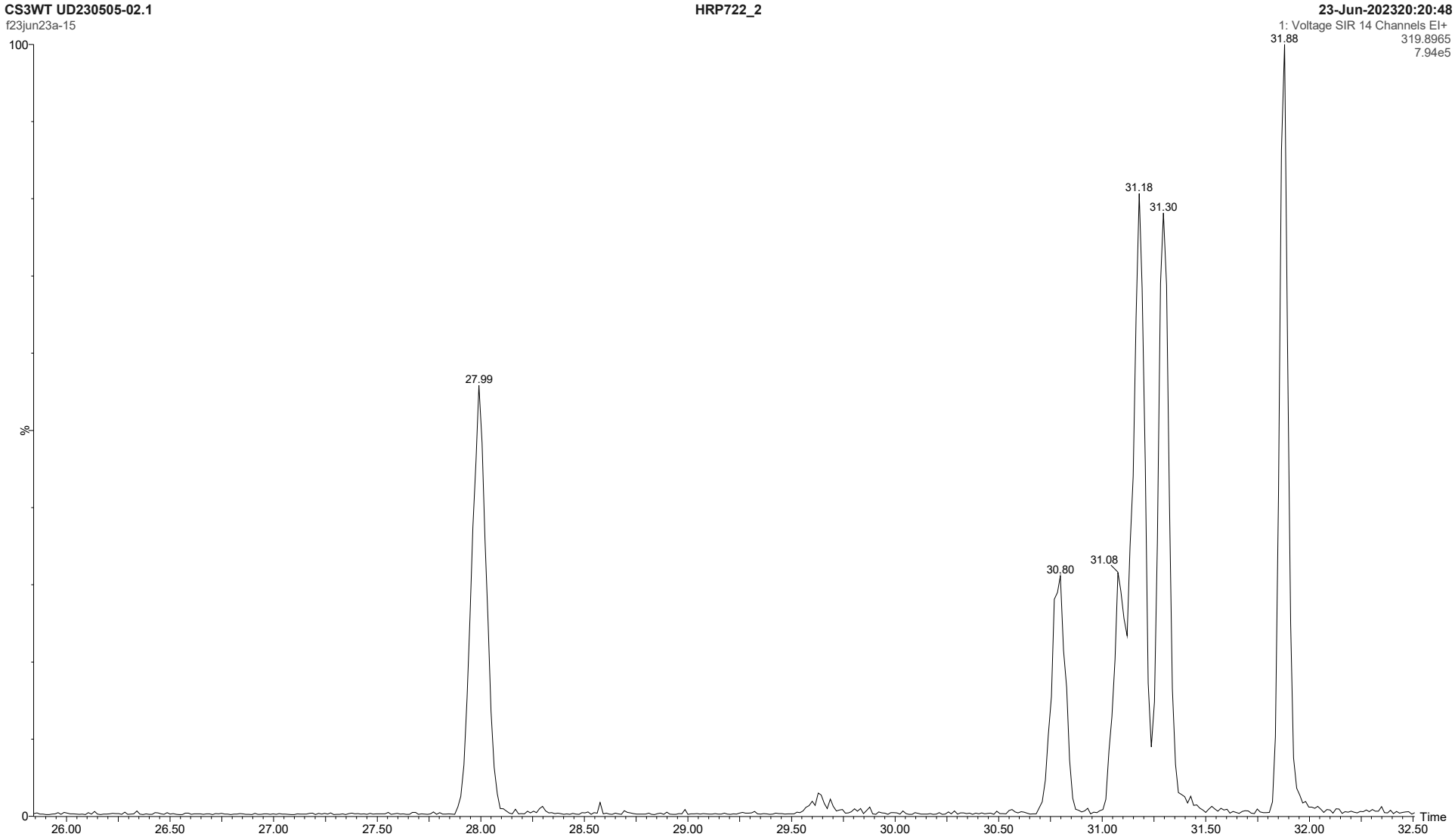
M 504.9696 R 14498



M 516.9697 R 18495



COLUMN CHECK (2378-TCDD 11%)



06/26/2023 06/26/2023

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a-15.qld

Last Altered: Monday, June 26, 2023 09:53:18 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:57:22 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_f21jun23.mdb 21 Jun 2023 15:32:13
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

	Name	RT
1	First TCDF	26.25
2	Last TCDF	31.95
3	First PeCDF	31.92
4	Last PeCDF	34.61
5	First HxCDF	35.09
6	Last HxCDF	37.41
7	First HpCDF	38.89
8	Last HpCDF	40.82
9	OCDF	44.68
10	First TCDD	27.99
11	2378-TCDD	31.30
12	Last TCDD	31.88
13	First PeCDD	32.81
14	Last PeCDD	34.42
15	First HxCDD	35.53
16	Last HxCDD	37.10
17	First HpCDD	39.22
18	Last HpCDD	40.15
19	OCDD	44.37

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a-15.qld

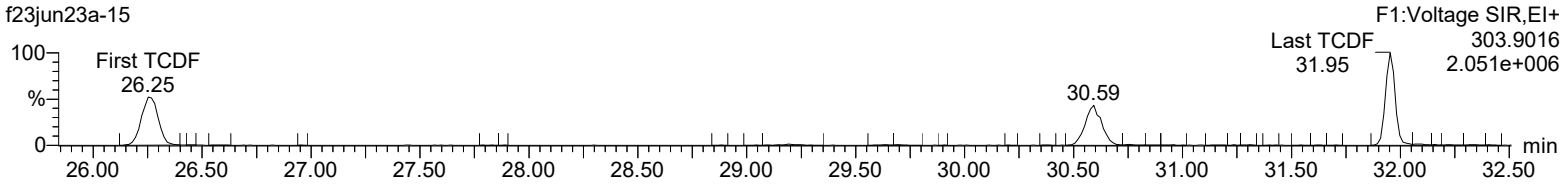
Last Altered: Monday, June 26, 2023 09:53:18 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:57:01 Eastern Daylight Time

06/26/2023

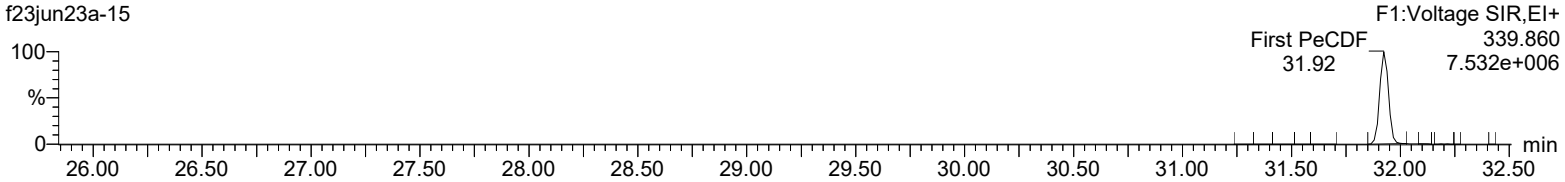
Method: C:\MassLynx\Default.pro\Methdb\WDM_f21jun23.mdb 21 Jun 2023 15:32:13
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

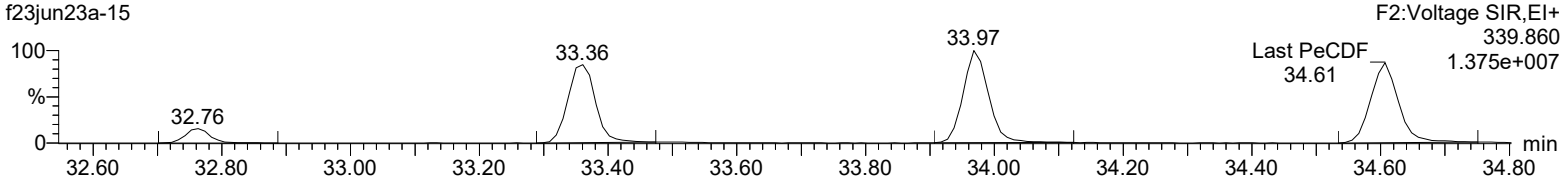
First TCDF



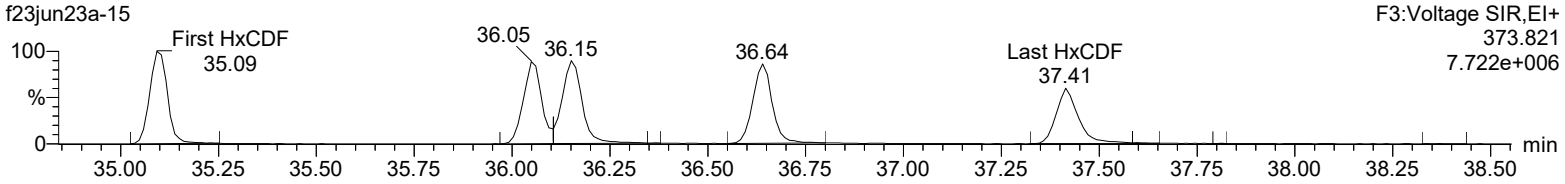
First PeCDF



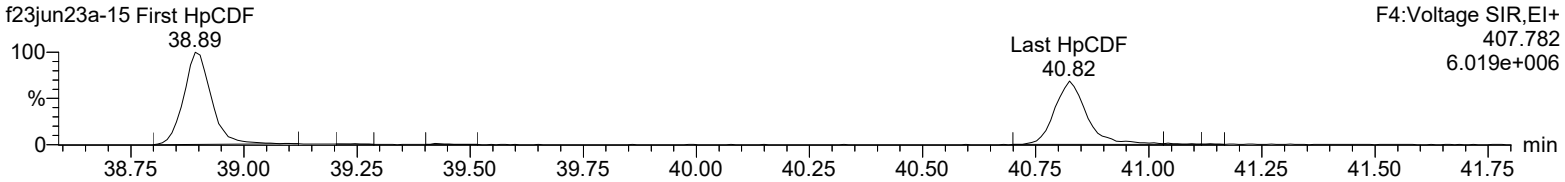
Last PeCDF



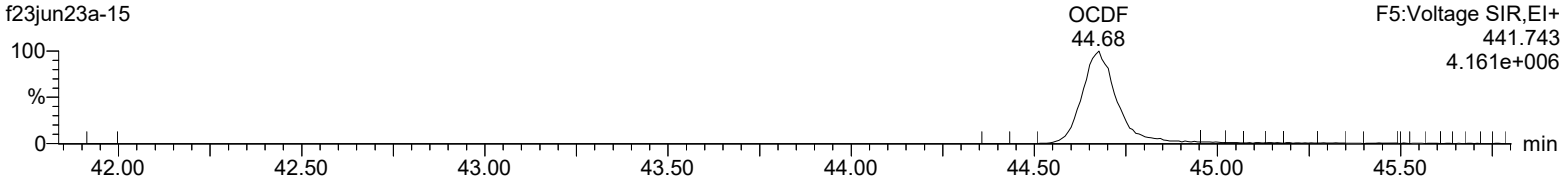
First HxCDF



First HpCDF



OCDF



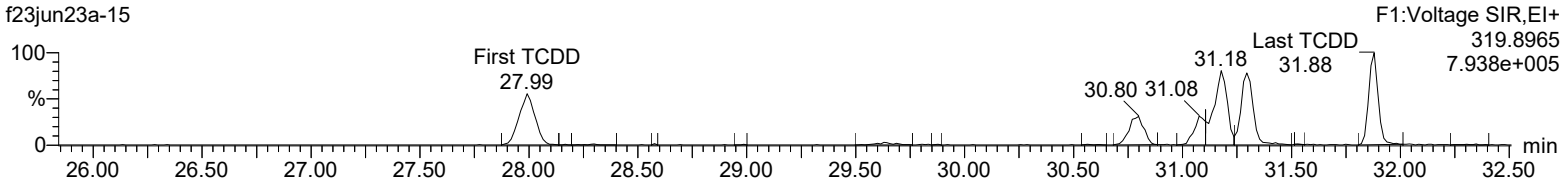
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a-15.qld

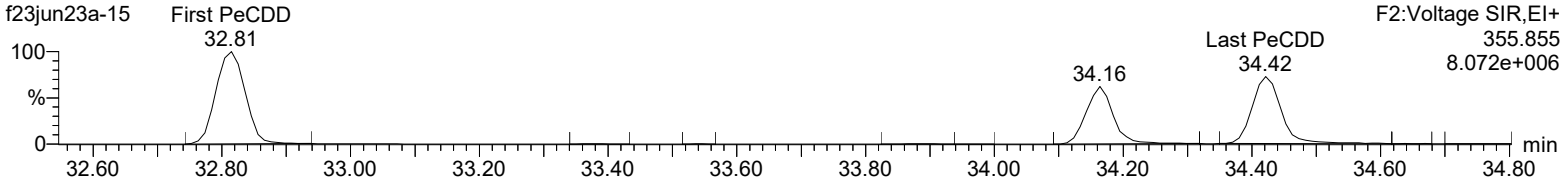
Last Altered: Monday, June 26, 2023 09:53:18 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:57:01 Eastern Daylight Time

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

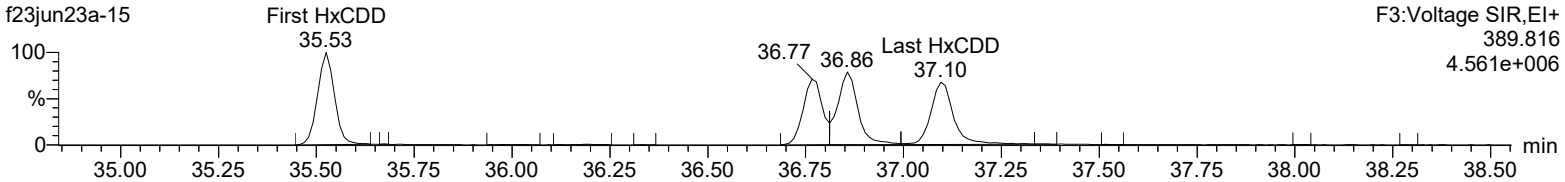
First TCDD



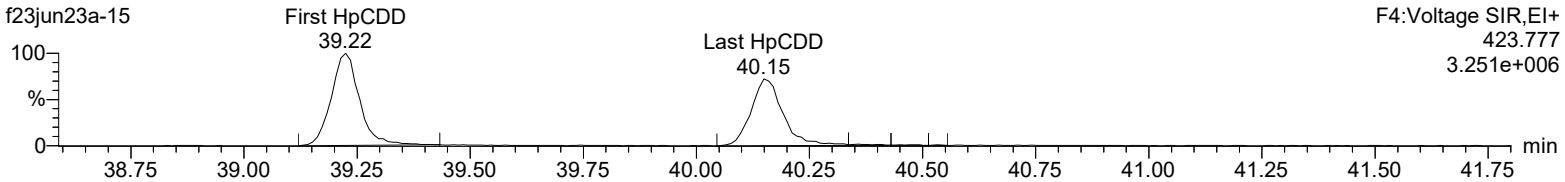
First PeCDD



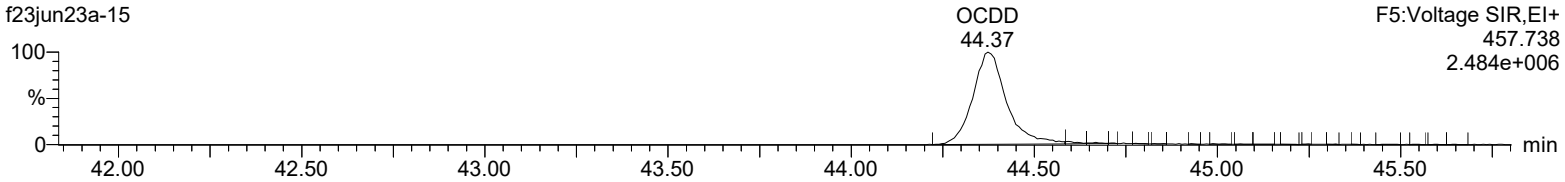
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:52:16 Eastern Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	3.99e4	5.26e4	9.25e4	31.30	1.000	0.76	NO	10.257	0.101	1.128	1.100	2.6	6.17e5	3336	184.9	8.63e5	2480	347.9	db	db
2	12378-PeCDD	2.42e5	1.47e5	3.88e5	34.16	1.000	1.65	NO	47.509	0.421	1.106	1.164	-5.0	5.00e6	10681	468.5	3.08e6	16714	184.1	bb	bb
3	123478-HxCDD	1.83e5	1.46e5	3.29e5	36.77	1.000	1.26	NO	49.939	0.279	1.071	1.073	-0.1	3.24e6	7074	457.5	2.59e6	5849	442.6	bd	bd
4	123678-HxCDD	2.13e5	1.68e5	3.82e5	36.86	1.000	1.27	NO	50.900	0.261	1.083	1.064	1.8	3.58e6	7074	506.4	2.89e6	5849	493.8	dd	dd
5	123789-HxCDD	2.08e5	1.64e5	3.71e5	37.10	1.007	1.27	NO	52.745	0.270	1.125	1.066	5.5	3.08e6	7074	435.6	2.45e6	5849	419.6	dd	dd
6	1234678-HpCDD	1.89e5	1.72e5	3.61e5	40.15	1.000	1.10	NO	50.000	0.502	1.228	1.228	-0.0	2.34e6	9674	242.1	2.18e6	8504	256.9	bd	bb
7	OCDD	2.62e5	2.84e5	5.46e5	44.37	1.000	0.92	NO	100.982	0.626	1.118	1.107	1.0	2.47e6	6876	359.7	2.64e6	5839	451.5	bd	bd
8	2378-TCDF	7.72e4	9.05e4	1.68e5	30.59	1.000	0.85	NO	10.285	0.125	1.391	1.352	2.8	8.84e5	4043	218.7	9.77e5	4645	210.3	bd	bb
9	12378-PeCDF	5.70e5	3.45e5	9.15e5	33.36	1.000	1.65	NO	52.933	0.160	1.349	1.274	5.9	1.16e7	13134	881.6	7.12e6	10238	695.4	bb	bb
10	23478-PeCDF	6.21e5	3.76e5	9.97e5	33.97	1.000	1.65	NO	52.032	0.144	1.451	1.394	4.1	1.37e7	13134	1043.0	8.24e6	10238	805.1	bb	bb
11	123478-HxCDF	3.74e5	2.70e5	6.44e5	36.05	1.000	1.38	NO	50.103	0.303	1.421	1.418	0.2	6.85e6	15095	454.1	4.85e6	12865	377.3	bd	bd
12	123678-HxCDF	4.05e5	3.22e5	7.28e5	36.15	1.000	1.26	NO	48.479	0.282	1.336	1.378	-3.0	6.92e6	15095	458.2	5.36e6	12865	416.9	dd	db
13	234678-HxCDF	3.79e5	2.97e5	6.76e5	36.64	1.000	1.28	NO	50.004	0.293	1.422	1.422	0.0	6.62e6	15095	438.4	5.21e6	12865	405.2	bb	bd
14	123789-HxCDF	3.00e5	2.33e5	5.33e5	37.41	1.000	1.29	NO	50.096	0.429	1.305	1.302	0.2	4.64e6	15095	307.1	3.38e6	12865	262.7	bd	bd
15	1234678-HpCDF	4.23e5	4.01e5	8.24e5	38.89	1.000	1.06	NO	53.587	0.286	1.483	1.384	7.2	6.00e6	12538	478.3	5.76e6	12794	450.3	bb	bb
16	1234789-HpCDF	3.39e5	3.24e5	6.63e5	40.82	1.000	1.05	NO	54.906	0.447	1.497	1.364	9.8	4.14e6	12538	329.9	3.84e6	12794	300.0	bd	bb
17	OCDF	4.56e5	4.86e5	9.43e5	44.68	1.007	0.94	NO	110.156	0.622	1.930	1.752	10.2	4.16e6	8678	479.0	4.44e6	11326	391.7	bd	bd
18	13C-2378-TCDD	3.66e5	4.54e5	8.20e5	31.28	1.017	0.81	NO	103.469	0.226	1.178	1.139	3.5	5.87e6	4877	1203.4	7.43e6	4159	1785.5	bb	bb
19	13C-12378-PeCDD	4.36e5	2.66e5	7.02e5	34.15	1.110	1.64	NO	124.036	0.245	1.009	0.813	24.0	8.69e6	2019	4303.1	5.40e6	4974	1085.0	bd	bb
20	13C-123478-HxCDD	3.43e5	2.72e5	6.15e5	36.75	0.991	1.26	NO	100.016	0.269	0.848	0.847	0.0	6.03e6	5089	1184.7	5.00e6	4513	1106.9	bd	bd
21	13C-123678-HxCDD	3.95e5	3.10e5	7.05e5	36.85	0.994	1.27	NO	94.574	0.222	0.971	1.027	-5.4	6.53e6	5089	1282.4	5.12e6	4513	1133.9	dd	dd
22	13C-1234678-HpCDD	3.05e5	2.84e5	5.88e5	40.14	1.082	1.07	NO	101.311	0.421	0.811	0.800	1.3	3.82e6	8340	457.7	3.50e6	5859	598.0	bb	bd
23	13C-OCDD	4.63e5	5.14e5	9.77e5	44.36	1.196	0.90	NO	206.379	0.418	0.673	0.653	3.2	4.35e6	6068	716.9	4.67e6	5405	863.7	bd	bd
24	13C-2378-TCDF	5.39e5	6.67e5	1.21e6	30.58	0.994	0.81	NO	99.914	0.122	1.732	1.734	-0.1	5.74e6	3700	1550.4	7.22e6	3738	1930.8	bb	bd
25	13C-12378-PeCDF	8.44e5	5.14e5	1.36e6	33.35	1.084	1.64	NO	113.466	0.501	1.950	1.719	13.5	1.78e7	16350	1086.9	1.07e7	13830	770.2	bd	bd
26	13C-23478-PeCDF	8.59e5	5.16e5	1.37e6	33.96	1.104	1.67	NO	121.965	0.532	1.975	1.619	22.0	1.82e7	16350	1112.4	1.12e7	13830	808.6	bd	bb
27	13C-123478-HxCDF	3.24e5	5.83e5	9.07e5	36.04	0.972	0.56	NO	96.827	0.582	1.250	1.291	-3.2	5.82e6	12466	466.5	1.09e7	19157	568.8	bd	bd
28	13C-123678-HxCDF	3.73e5	7.16e5	1.09e6	36.14	0.975	0.52	NO	93.967	0.470	1.502	1.598	-6.0	6.15e6	12466	493.7	1.14e7	19157	597.4	dd	dd
29	13C-234678-HxCDF	3.27e5	6.23e5	9.50e5	36.63	0.988	0.53	NO	97.916	0.562	1.310	1.338	-2.1	5.78e6	12466	463.3	1.07e7	19157	557.8	bb	bd
30	13C-123789-HxCDF	2.77e5	5.40e5	8.17e5	37.40	1.009	0.51	NO	94.681	0.632	1.127	1.190	-5.3	4.25e6	12466	340.9	7.81e6	19157	407.5	bb	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:52:16 Eastern Daylight Time

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	3.55e5	7.57e5	1.11e6	38.88	1.048	0.47	NO	99.703	0.336	1.532	1.537	-0.3	5.10e6	9833	519.1	1.06e7	11866	890.2	bd	bb
32	13C-1234789-HpCDF	2.75e5	6.09e5	8.85e5	40.81	1.101	0.45	NO	101.808	0.430	1.220	1.198	1.8	3.23e6	9833	328.9	6.98e6	11866	587.9	bd	bb
33	13C-1234-TCDD	3.08e5	3.88e5	6.96e5	30.77	0.000	0.79	NO	100.000	0.258	1.000	1.000	0.0	3.87e6	4877	794.1	4.97e6	4159	1194.5	bb	bd
34	13C-123789-HxCDD	4.03e5	3.22e5	7.25e5	37.08	0.000	1.25	NO	100.000	0.228	1.000	1.000	0.0	5.85e6	5089	1149.0	4.62e6	4513	1024.0	dd	dd
35	37Cl-2378-TCDD	8.41e4		8.41e4	31.30	1.017			10.749	0.0682	1.208	1.124	7.5	1.36e6	2686	505.6				db	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

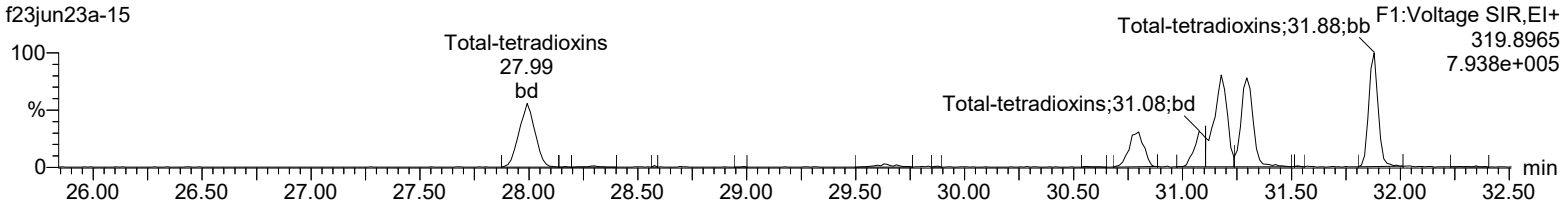
Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:51:50 Eastern Daylight Time

06/26/2023

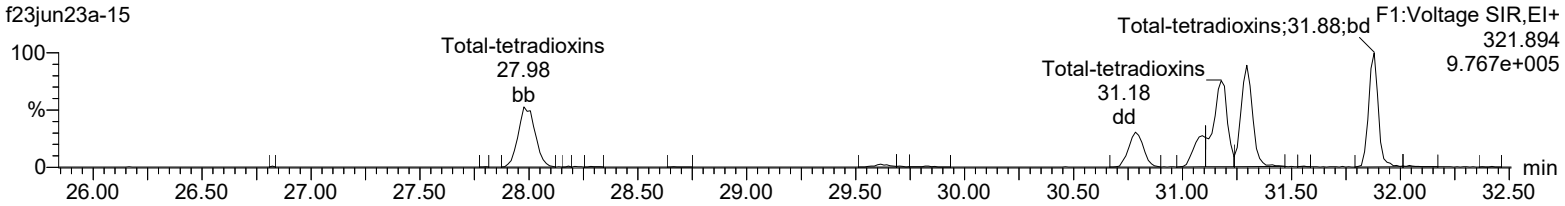
Method: C:\MassLynx\Default.PRO\MethDB\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

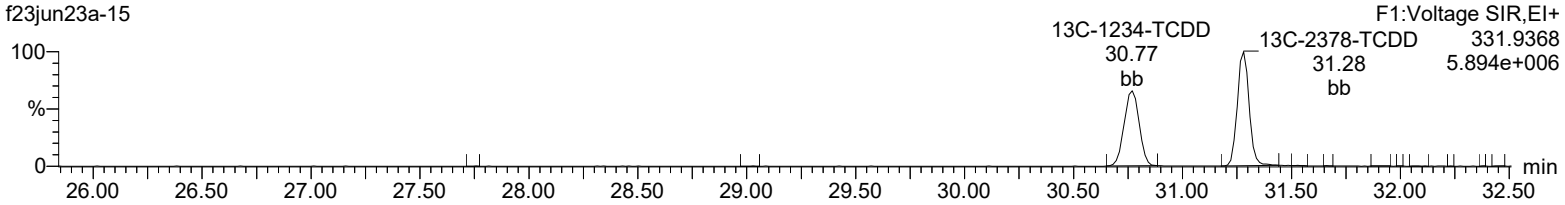
Total-tetradioxins



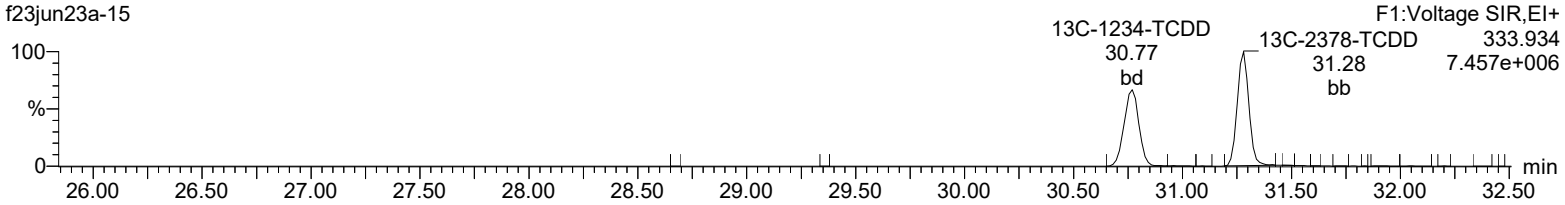
Total-tetradioxins



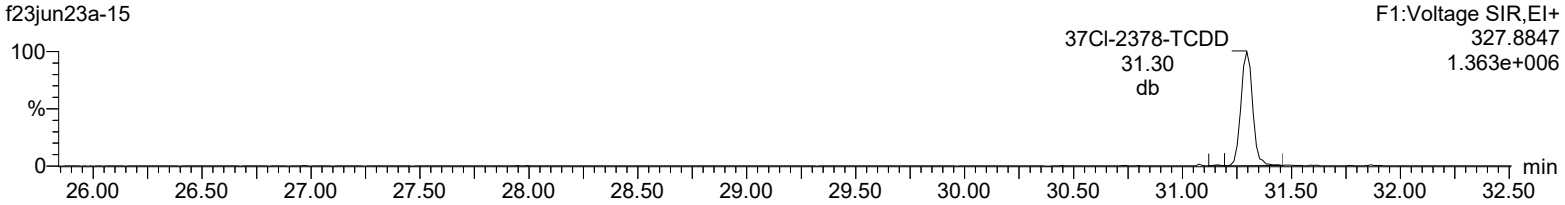
13C-2378-TCDD



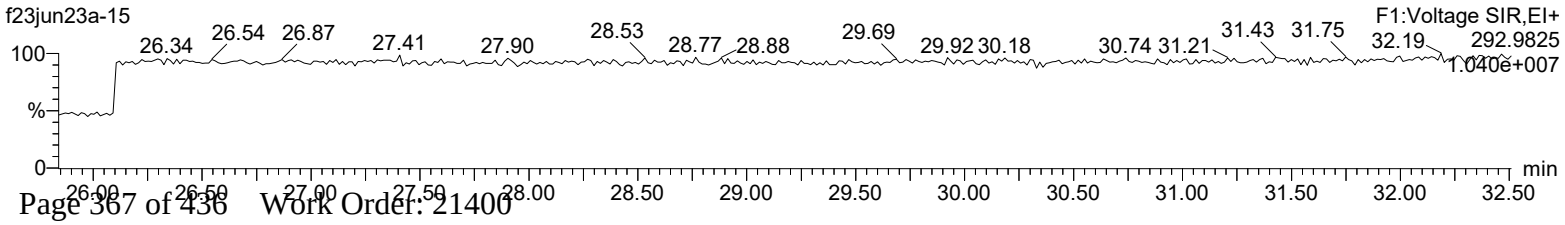
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



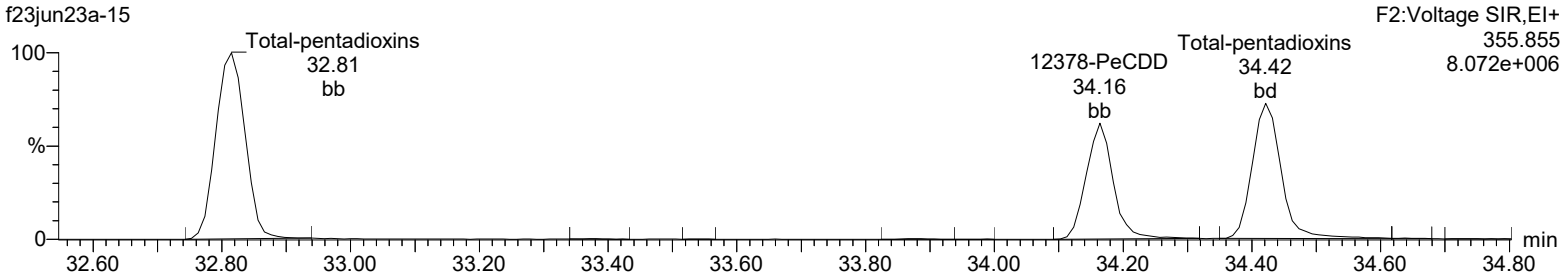
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

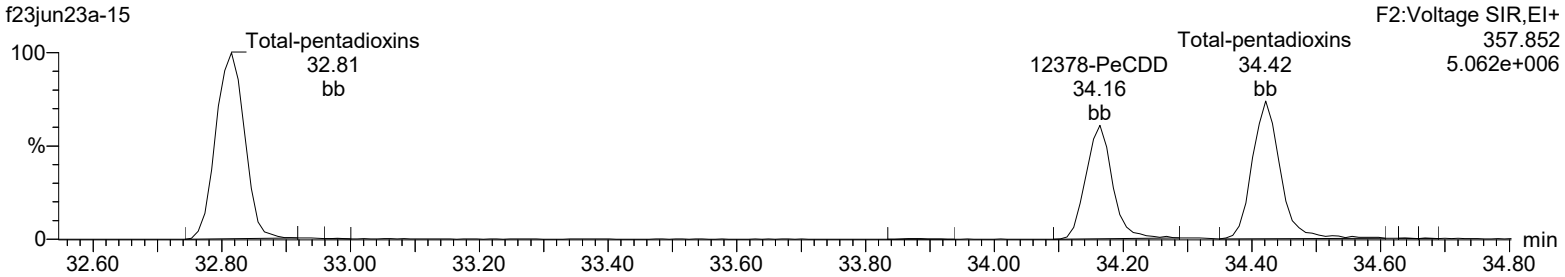
Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:51:50 Eastern Daylight Time

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

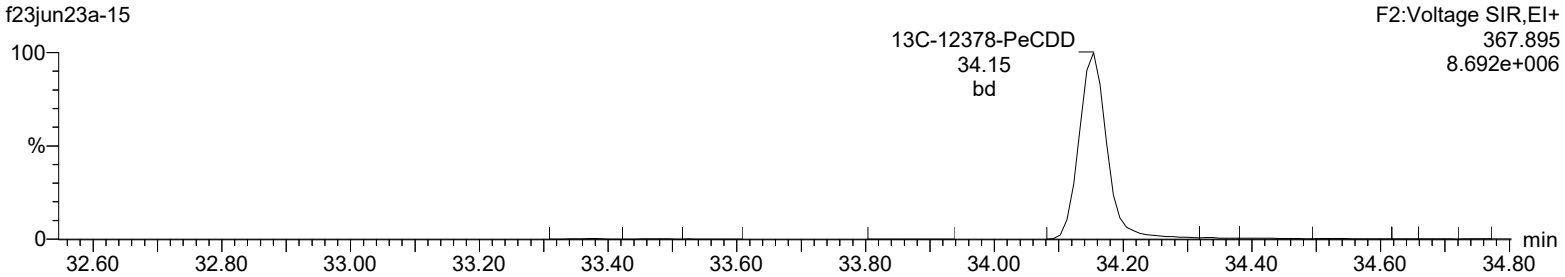
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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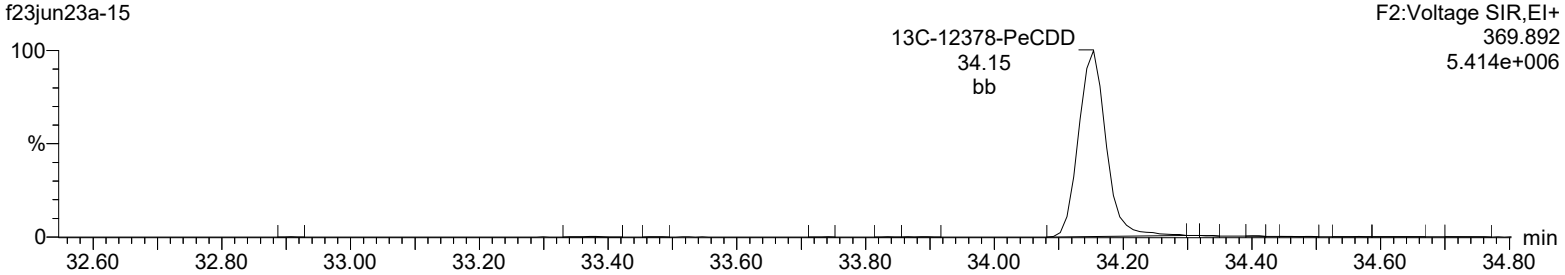
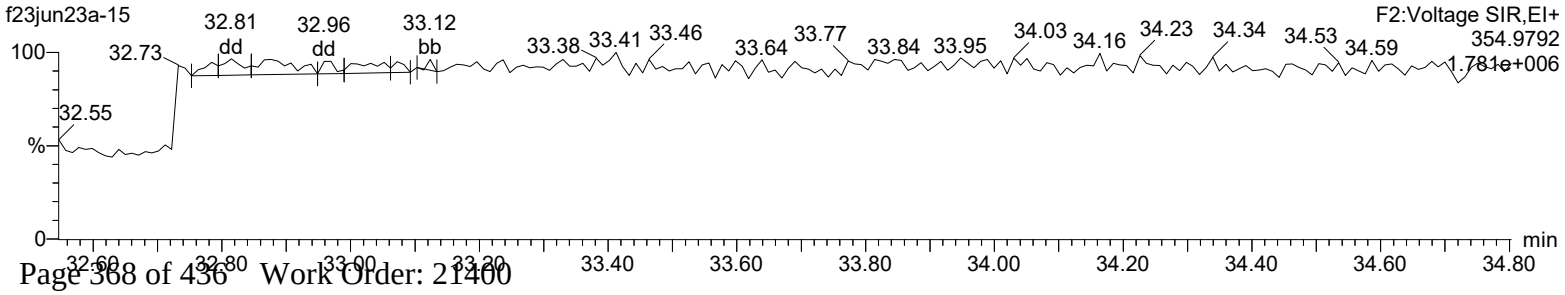


Lock Mass F2



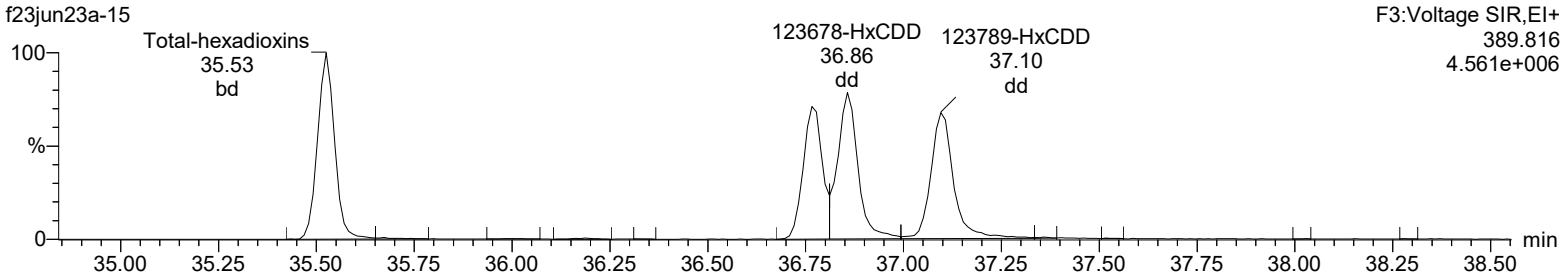
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

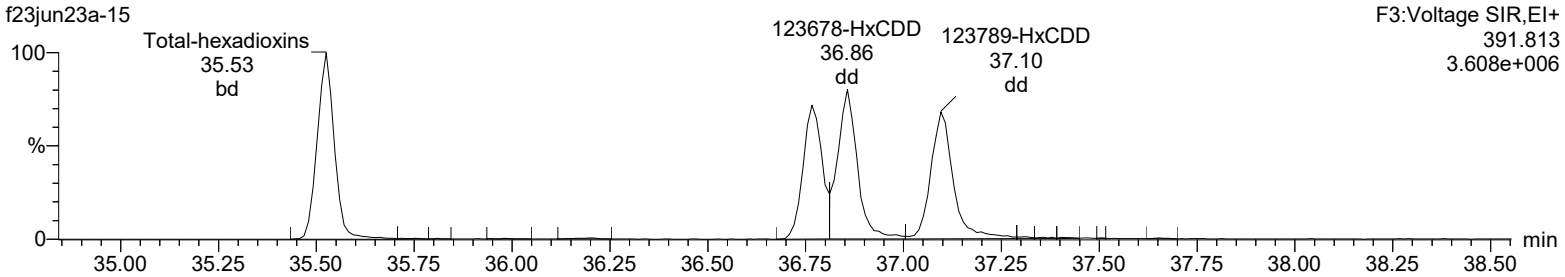
Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:51:50 Eastern Daylight Time

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

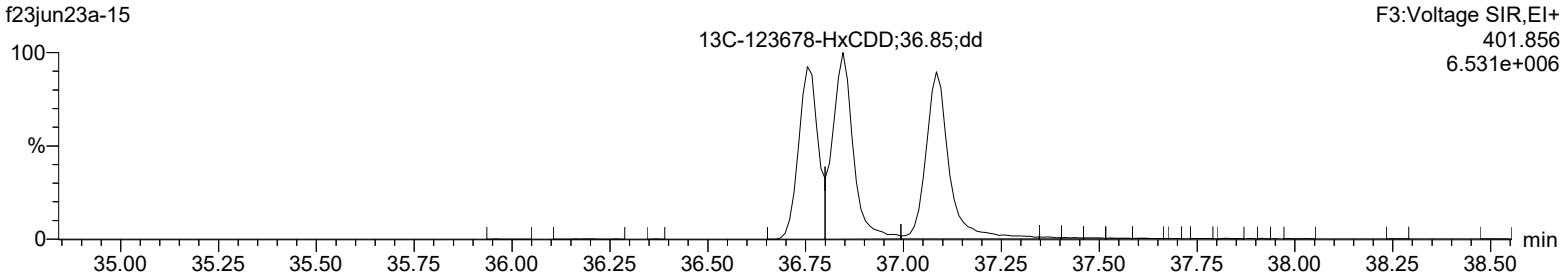
Total-hexadioxins



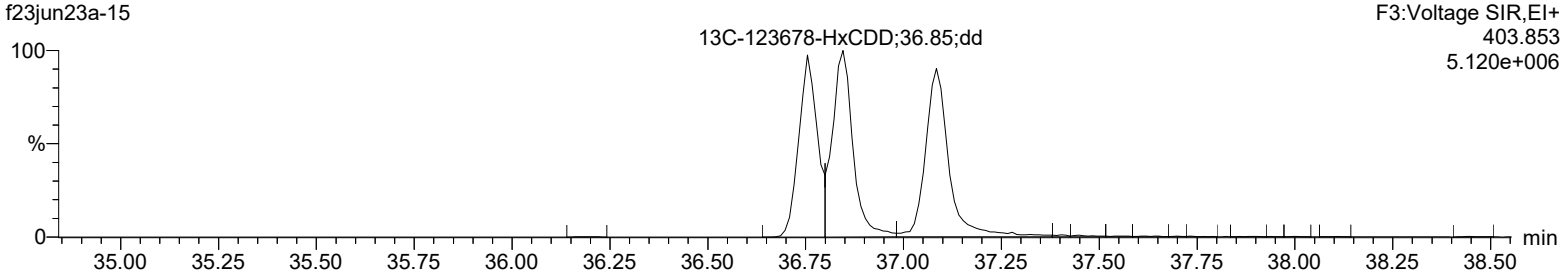
Total-hexadioxins



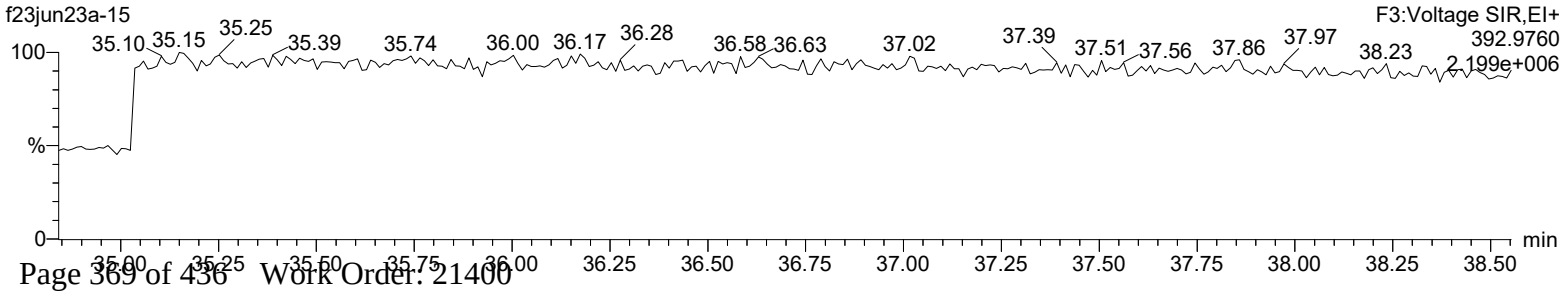
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



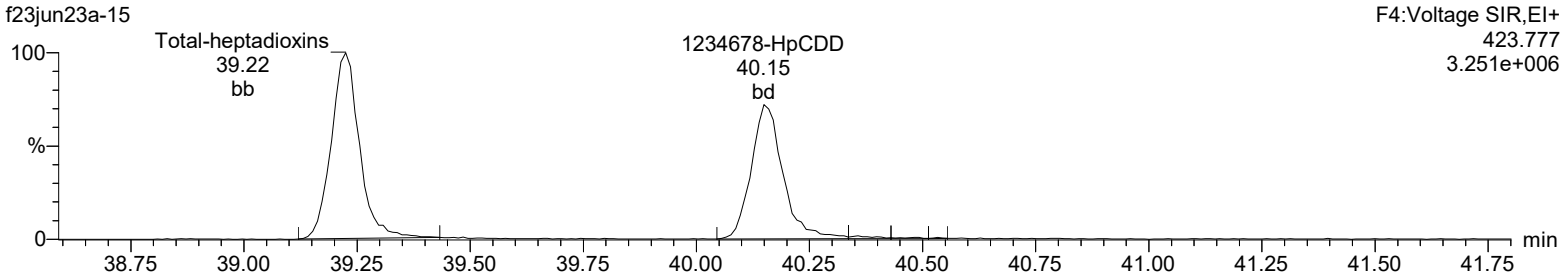
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

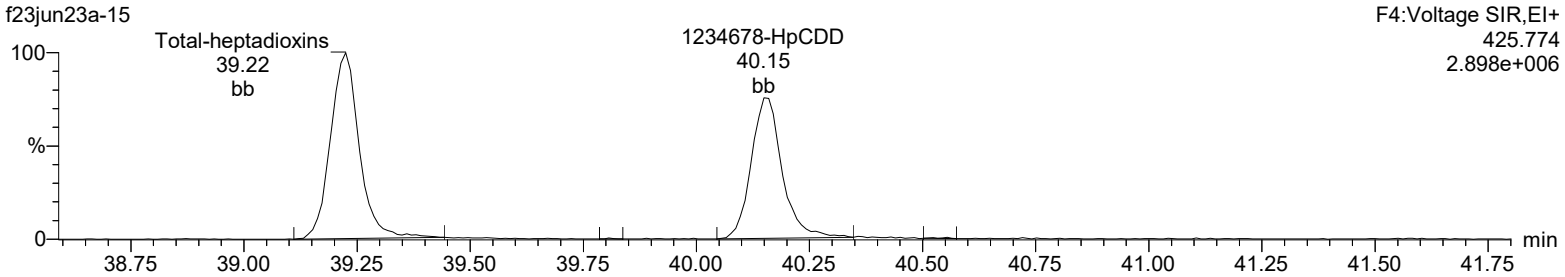
Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:51:50 Eastern Daylight Time

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

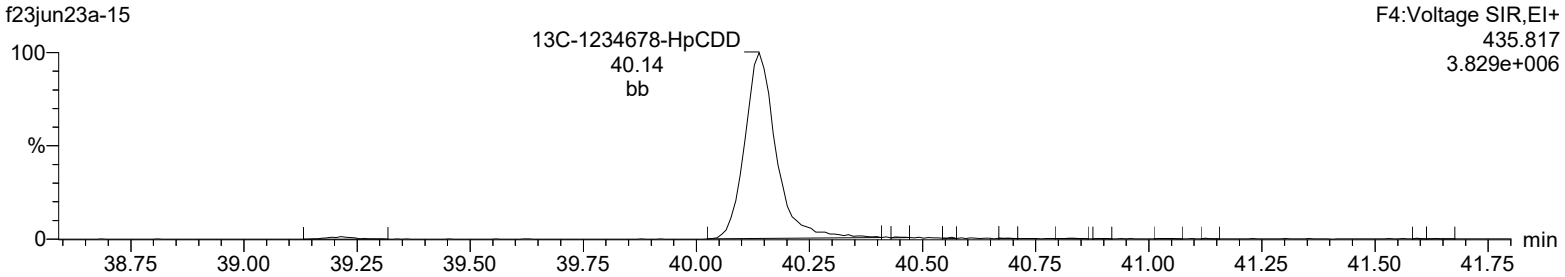
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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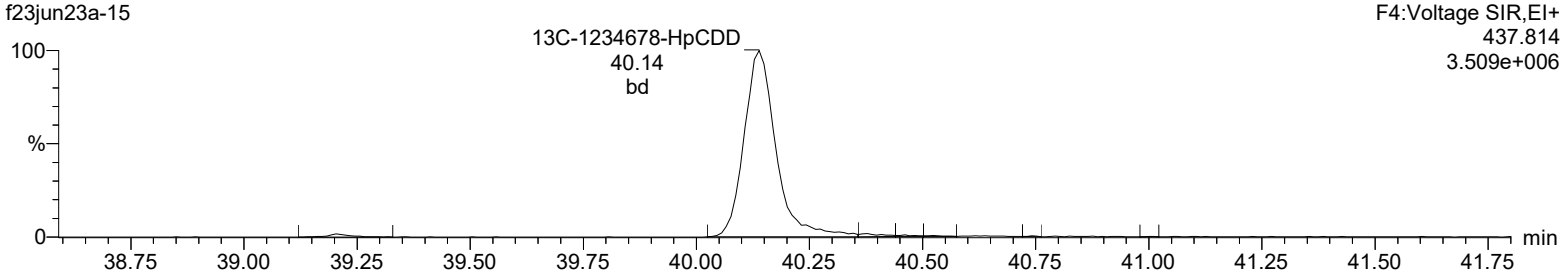
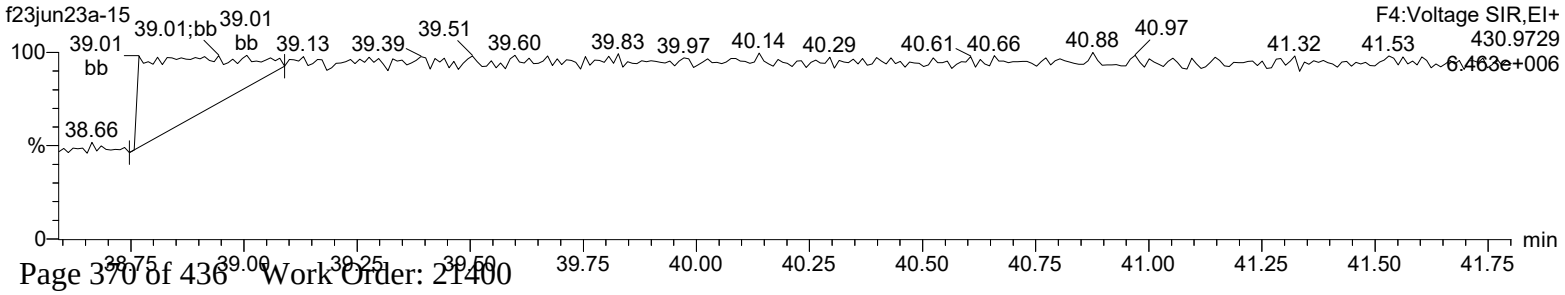


Lock Mass F4



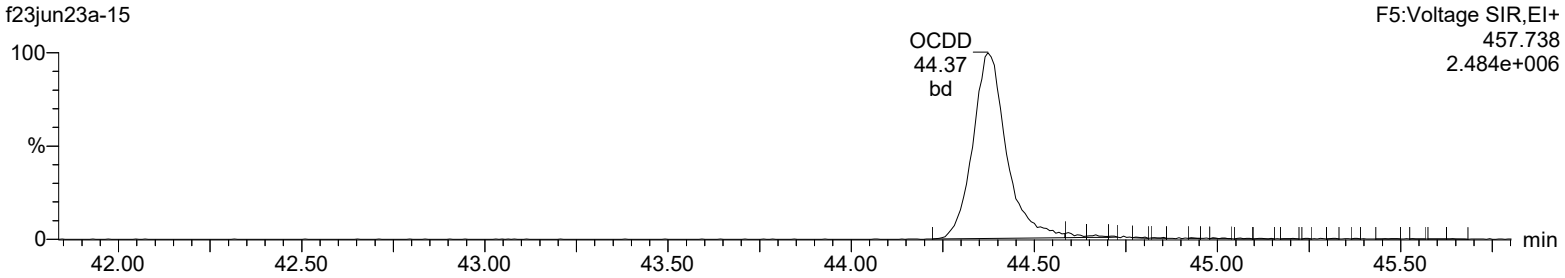
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

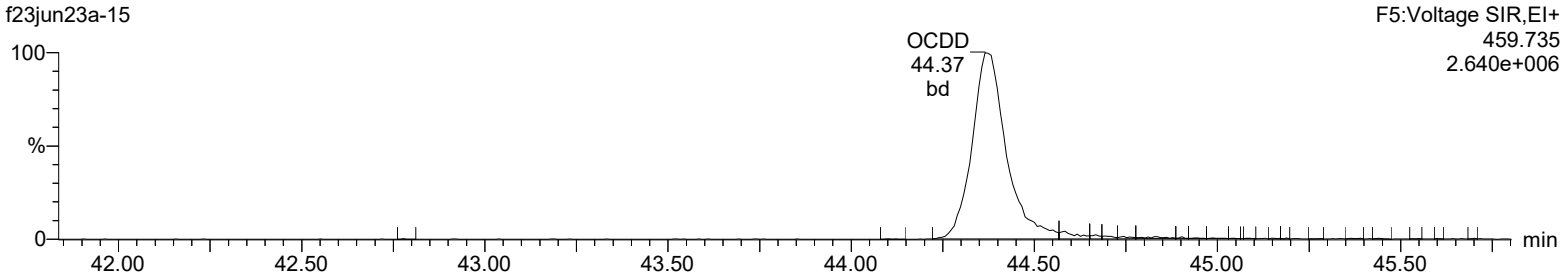
Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:51:50 Eastern Daylight Time

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

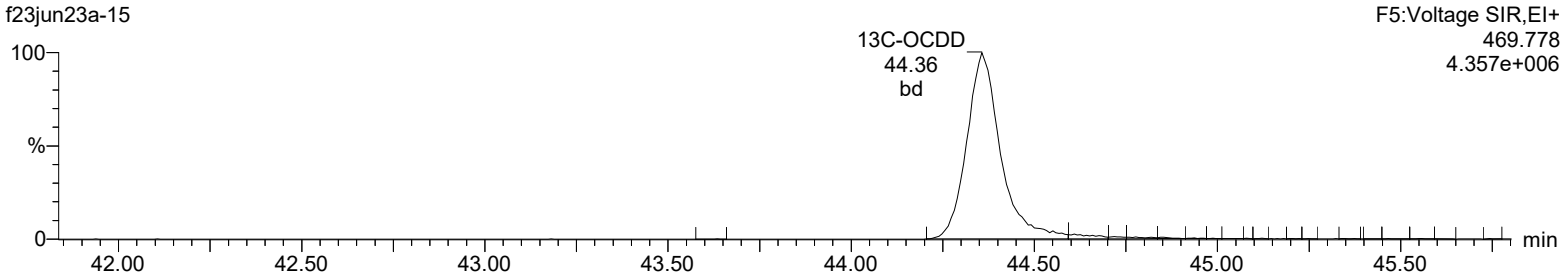
OCDD



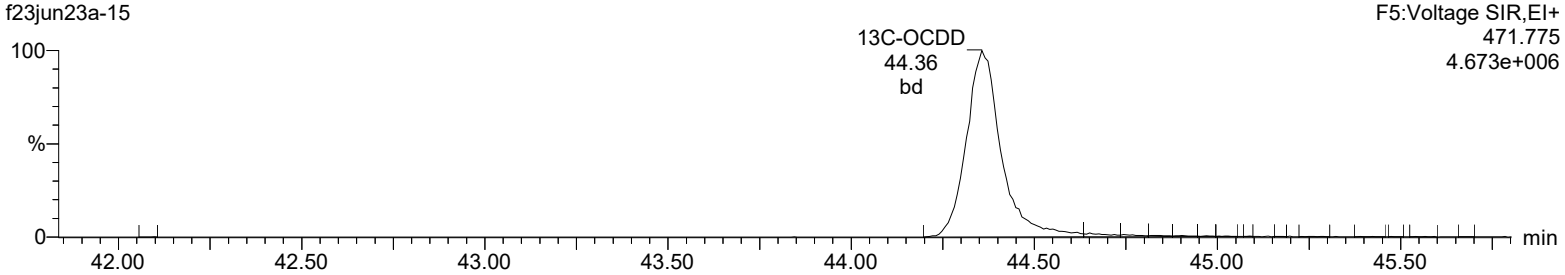
OCDD



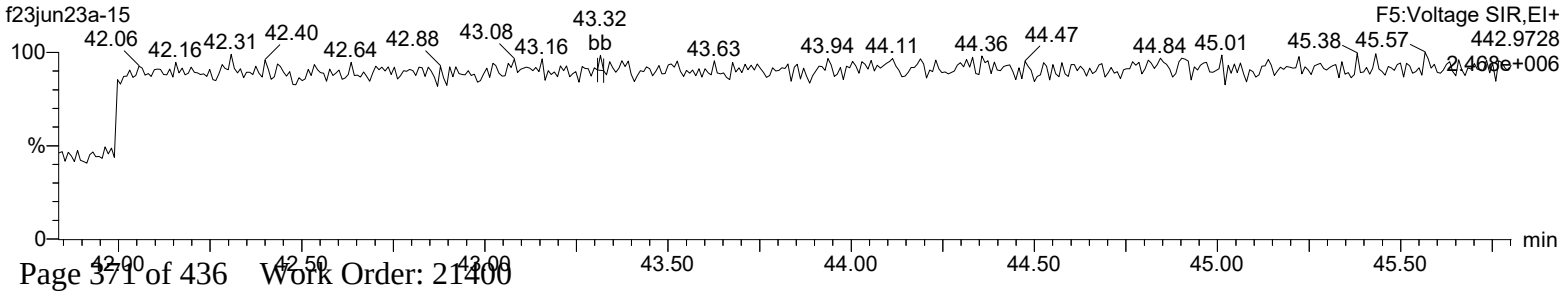
13C-OCDD



13C-OCDD



Lock Mass F5



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
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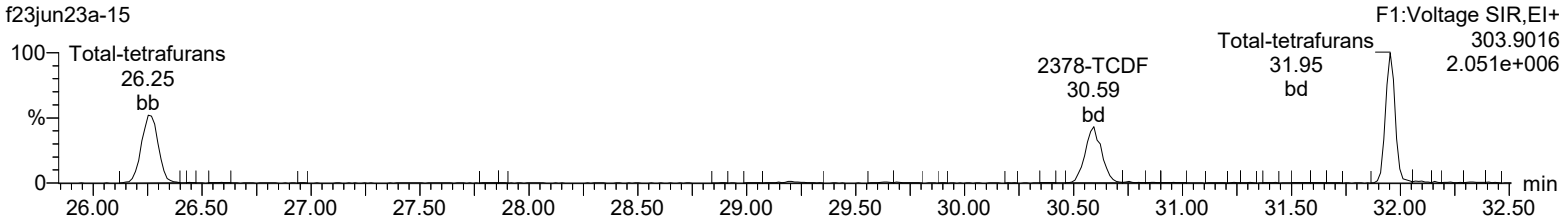
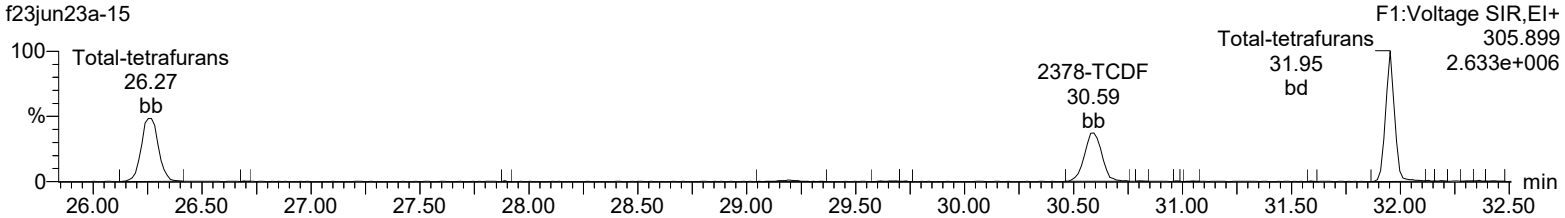
Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

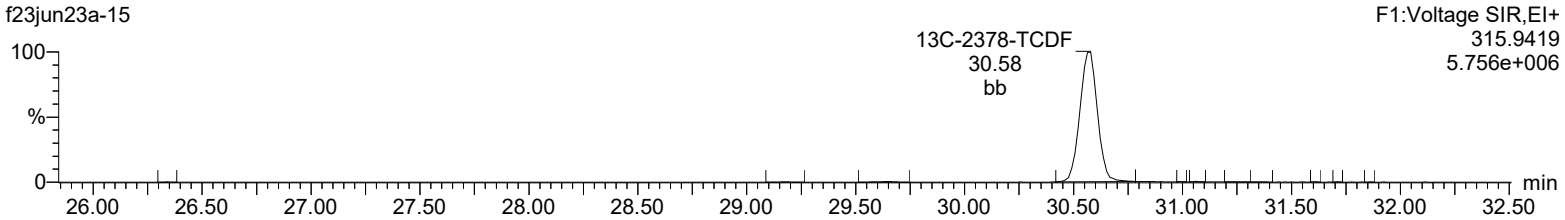
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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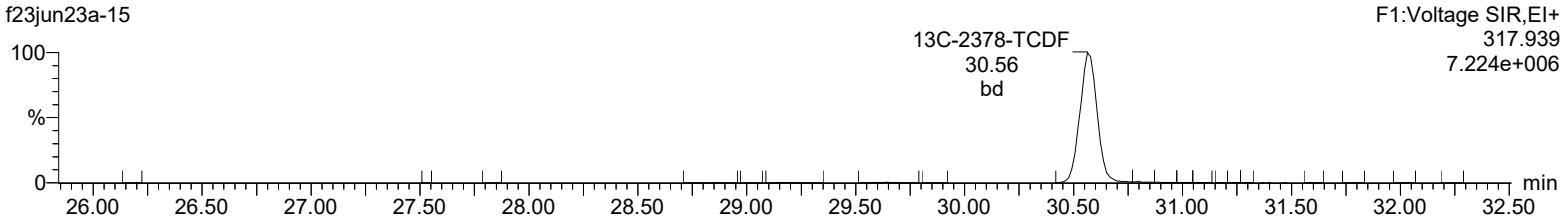

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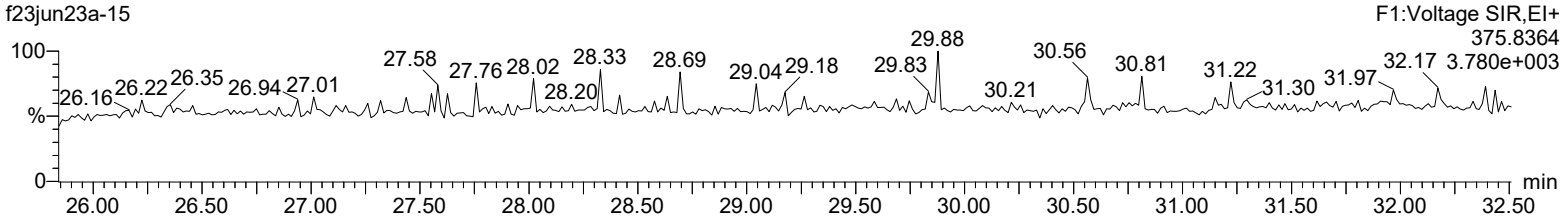
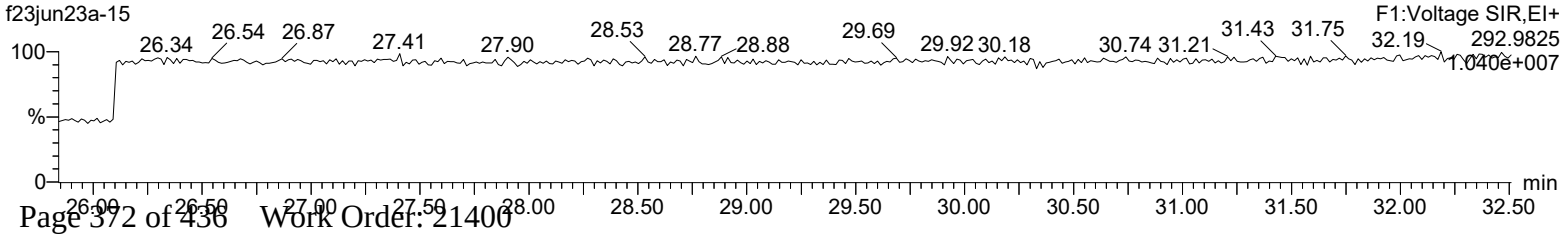


Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
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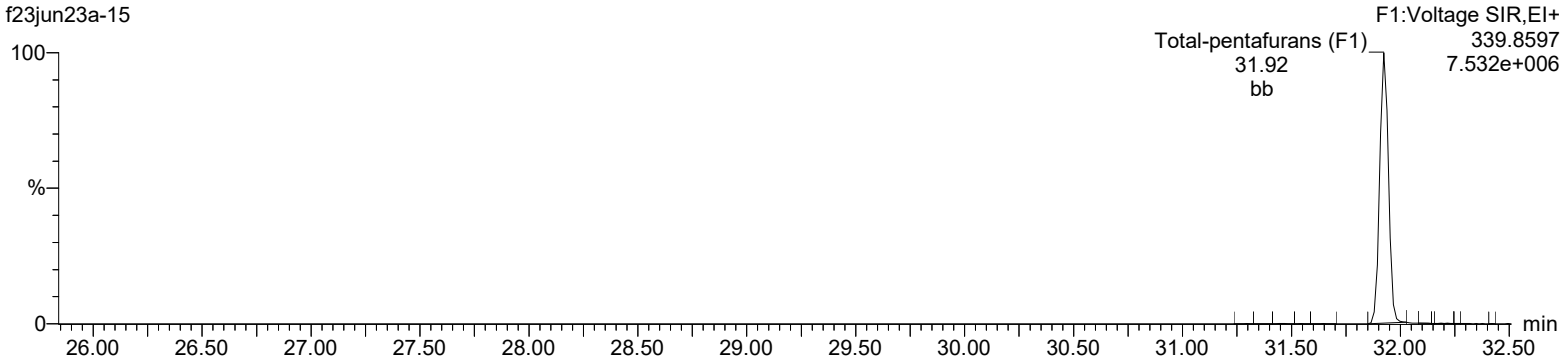
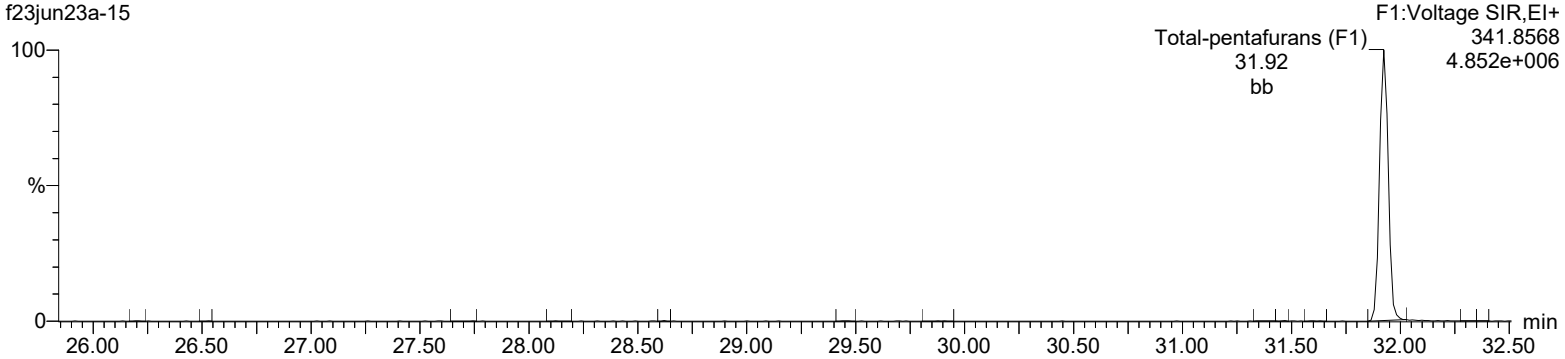
Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

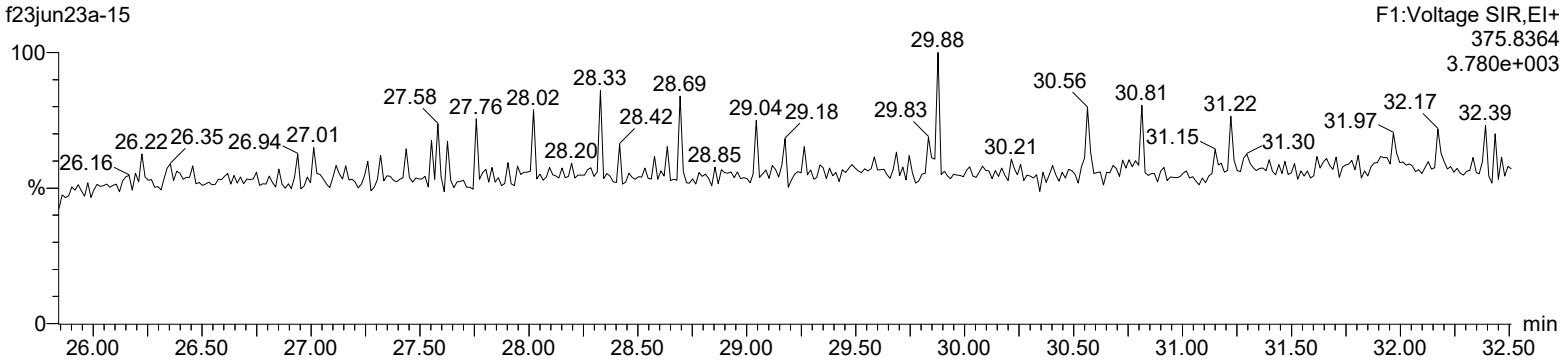
Total-pentafurans (F1)



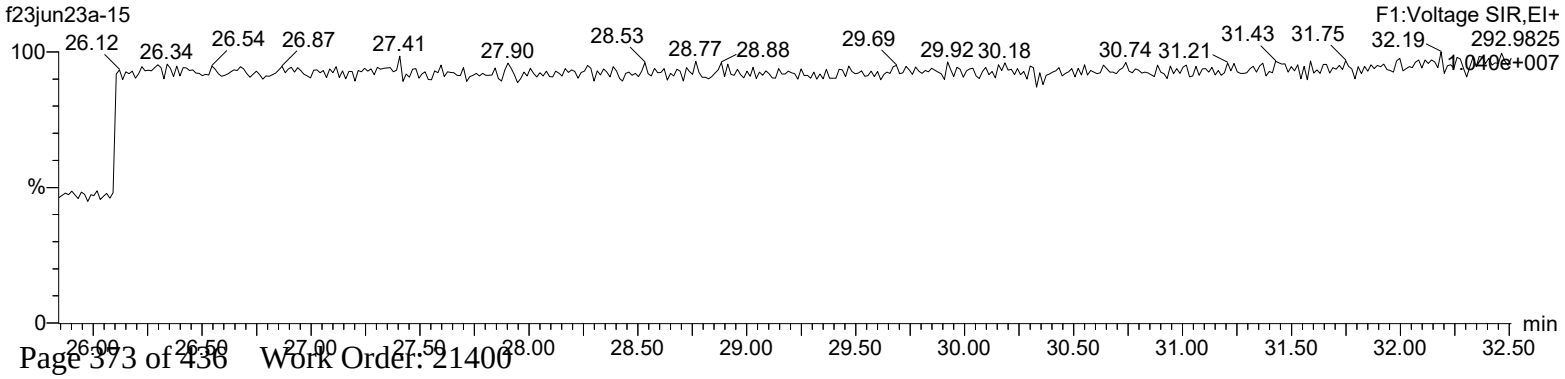
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
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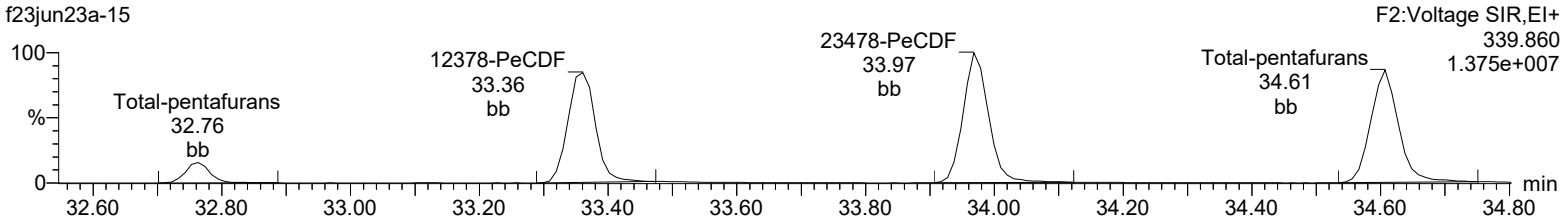
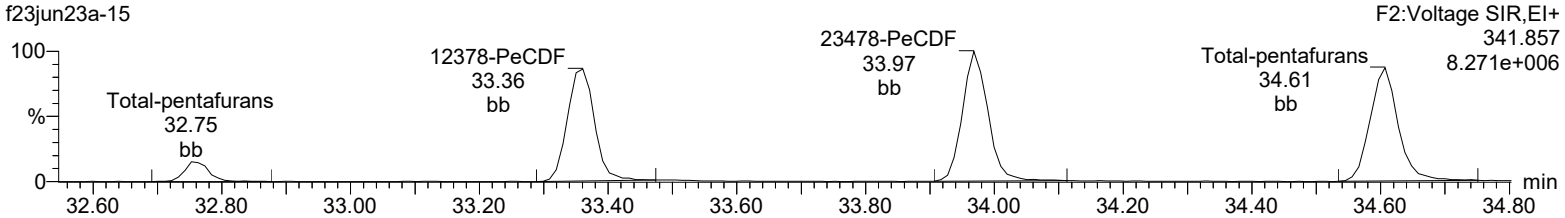
Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

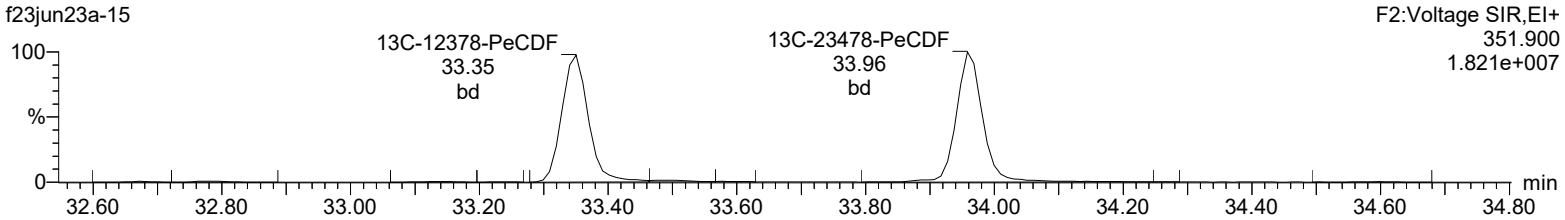
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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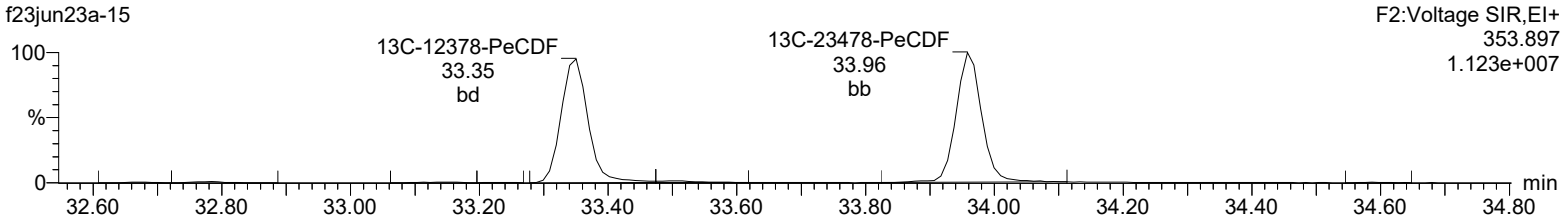

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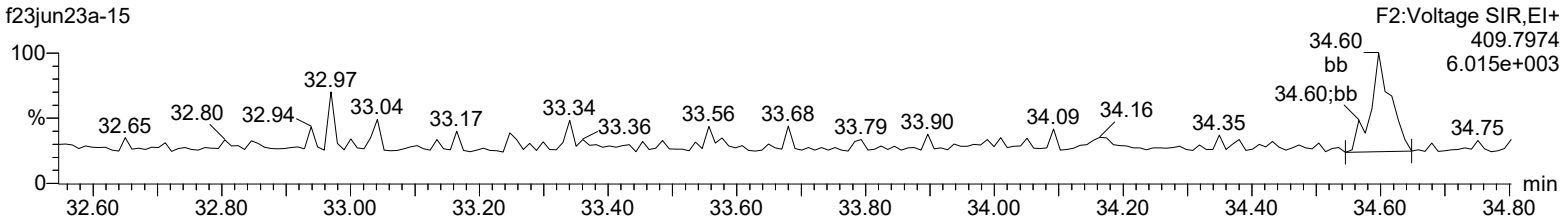
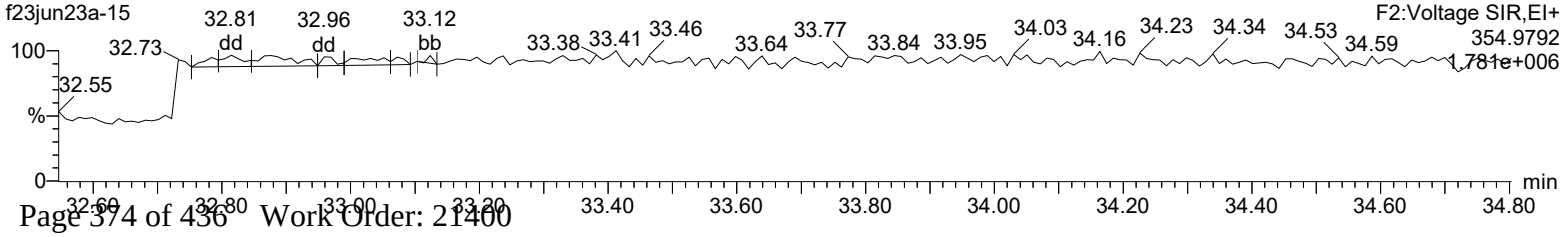


Lock Mass F2



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
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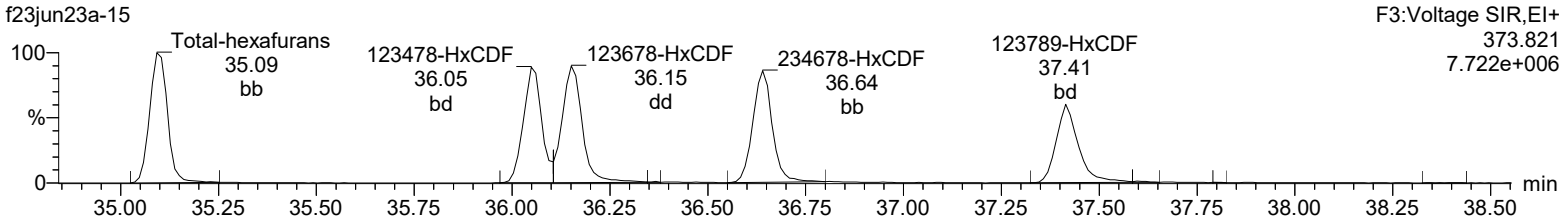
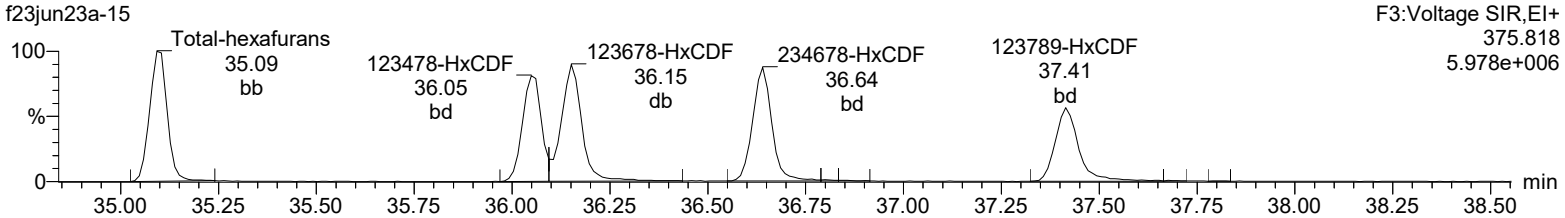
Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

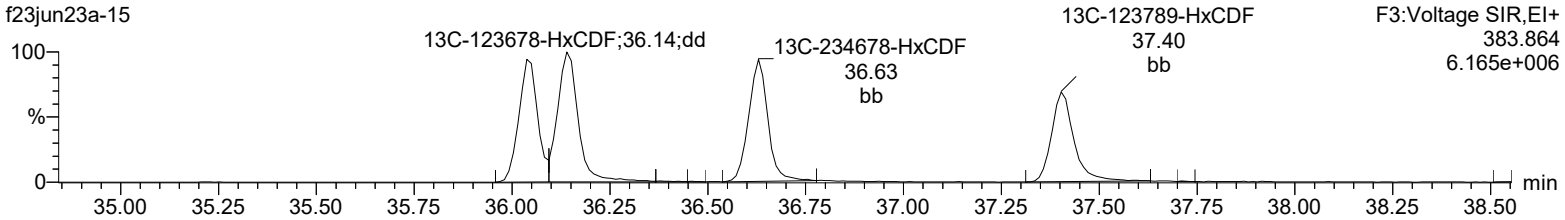
Total-hexafurans



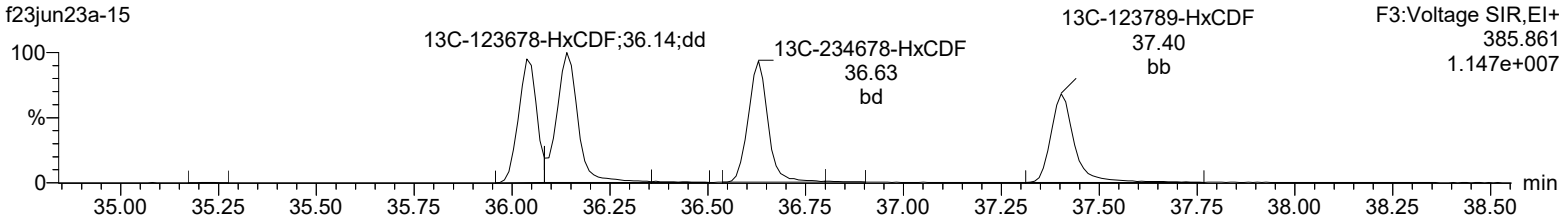
Total-hexafurans



13C-123478-HxCDF



13C-123478-HxCDF



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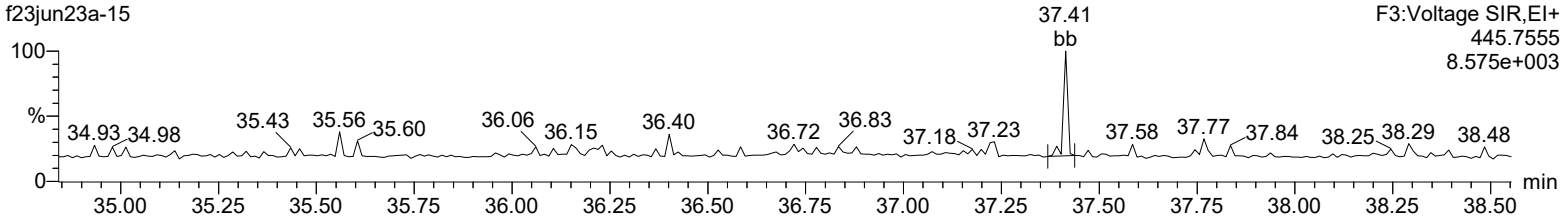
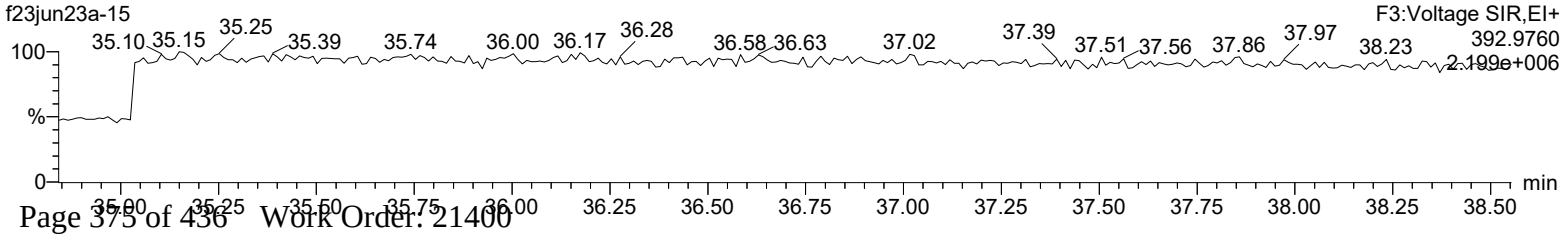


Lock Mass F3



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
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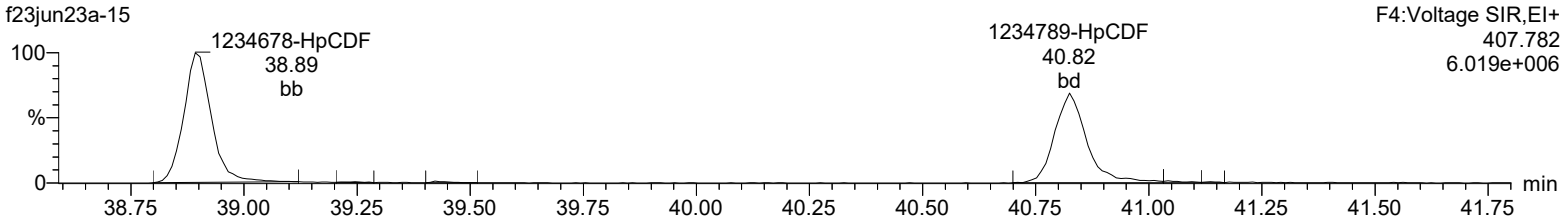
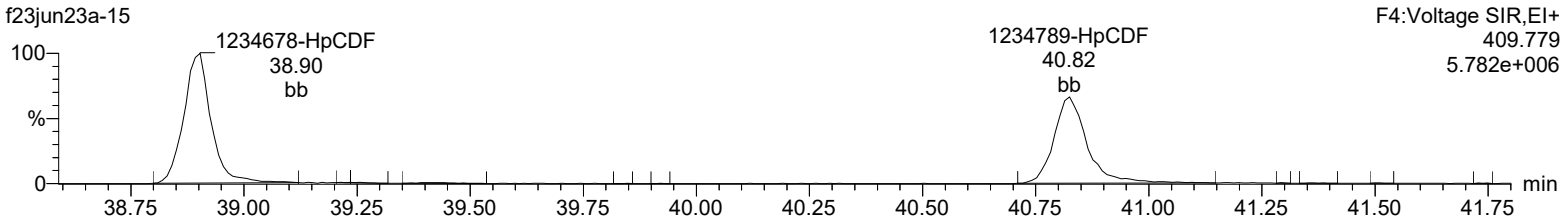
Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

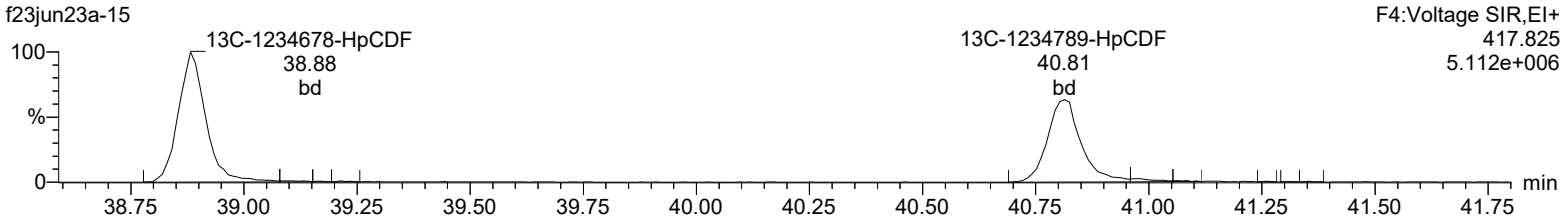
Total-heptafurans



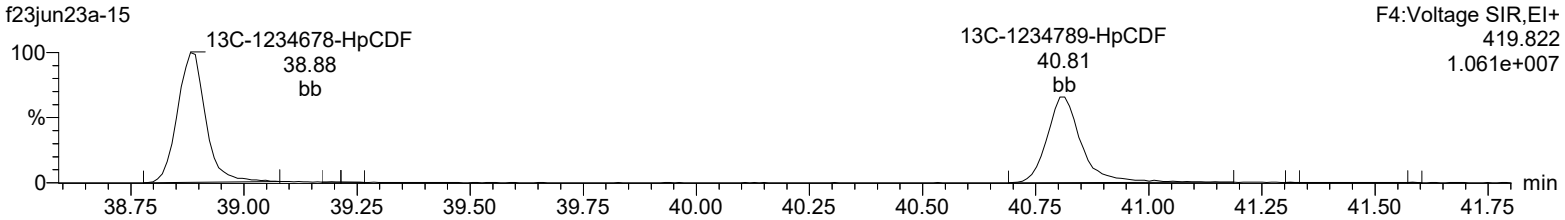
Total-heptafurans



13C-1234678-HpCDF



13C-1234678-HpCDF



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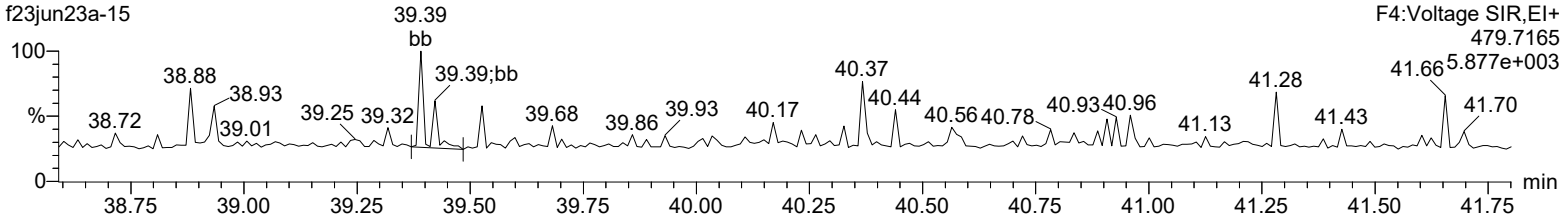
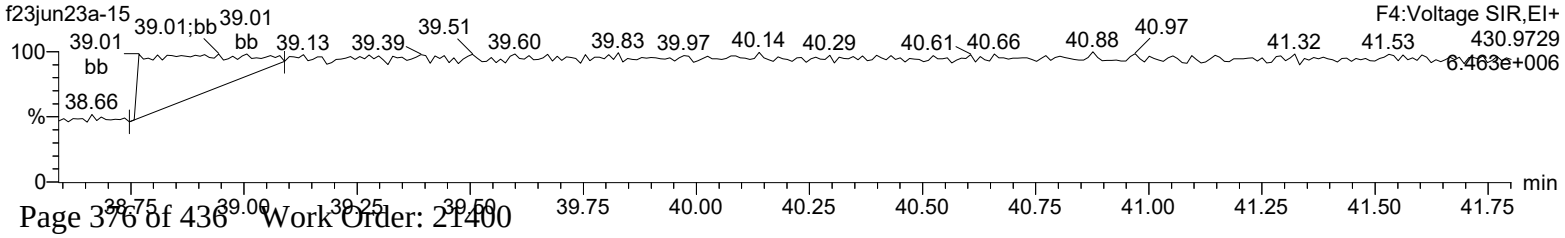


Lock Mass F4



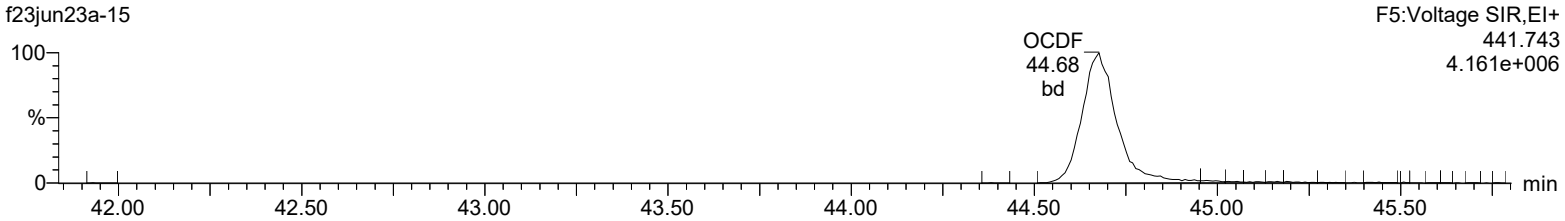
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a-15.qld

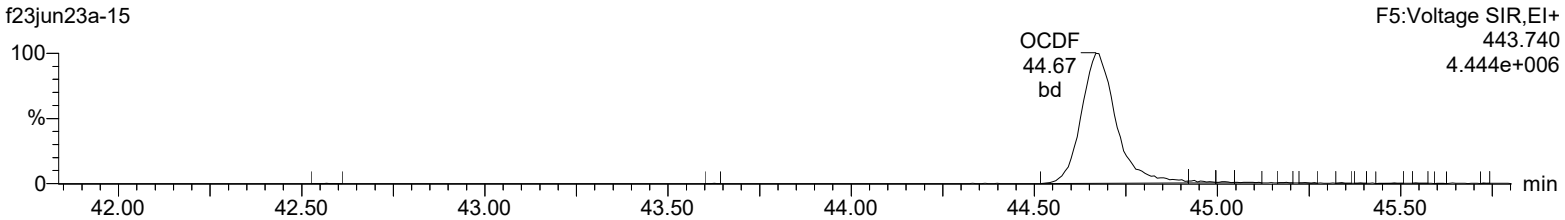
Last Altered: Monday, June 26, 2023 09:47:43 Eastern Daylight Time
Printed: Monday, June 26, 2023 09:51:50 Eastern Daylight Time

Name: f23jun23a-15, Date: 23-Jun-2023, Time: 20:20:48, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a, Task: HRP722_2, User: MW1

OCDF



OCDF



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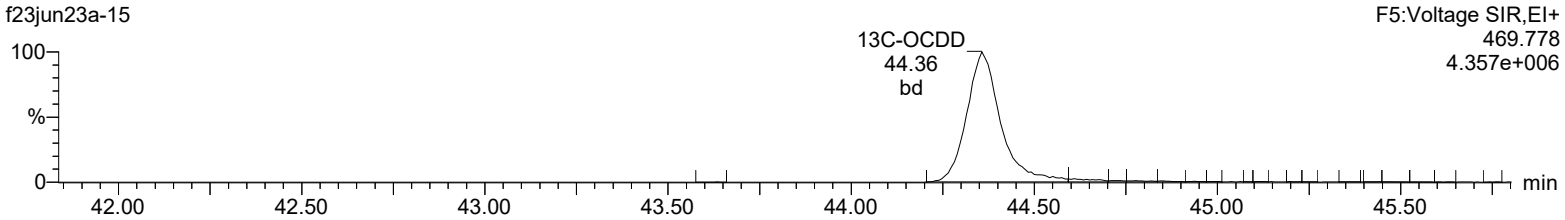

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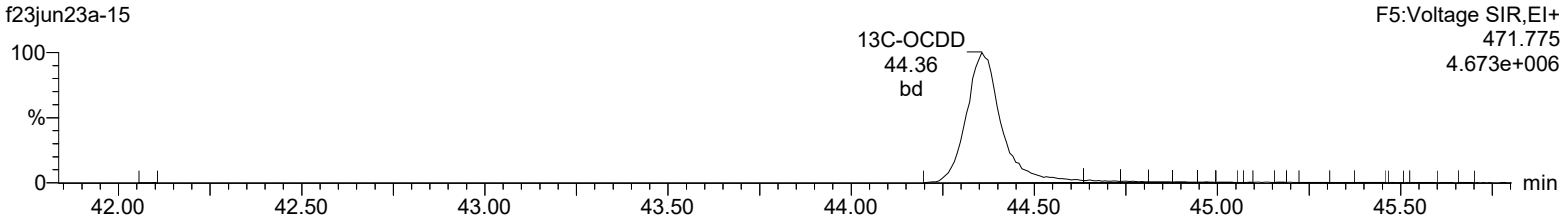

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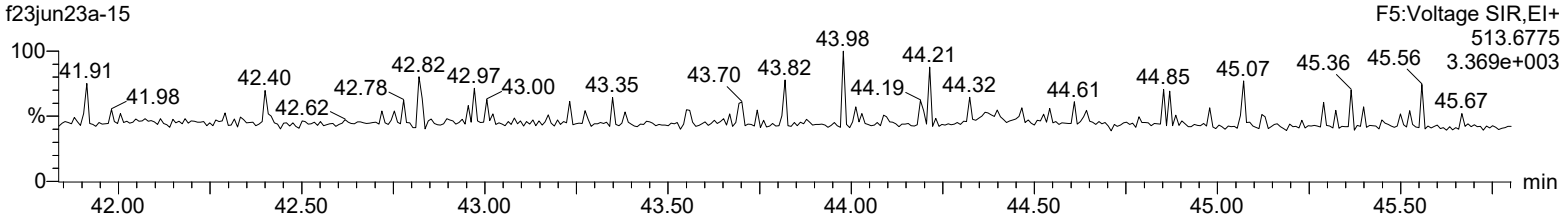

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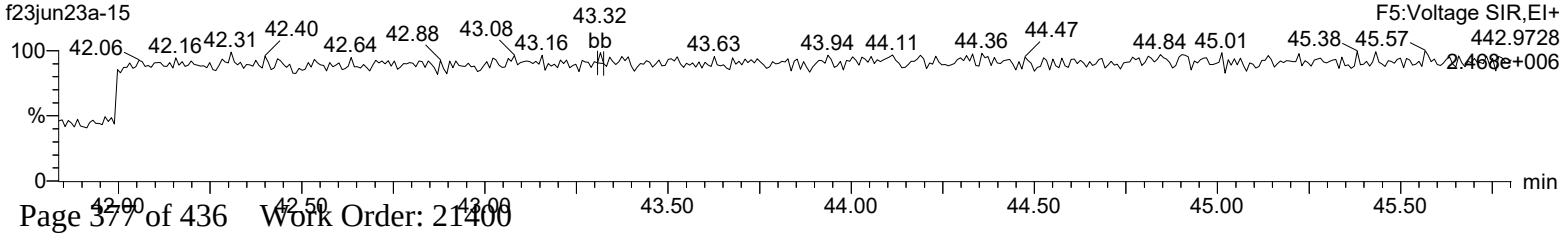


RUN LOG

Instrument: HRP722_2

Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f23jun23a_2-1	23-JUN-2023 21:17:40	Mallory Walton	SB		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-2	23-JUN-2023 22:05:15	Mallory Walton	21266014-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-3	23-JUN-2023 22:54:09	Mallory Walton	21266015-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-4	23-JUN-2023 23:43:03	Mallory Walton	21266016-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-5 RR c/o	24-JUN-2023 00:31:58	Mallory Walton	21266017-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-6	24-JUN-2023 01:20:52	Mallory Walton	21266018-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-7	24-JUN-2023 02:09:46	Mallory Walton	21266019-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-8	24-JUN-2023 02:58:40	Mallory Walton	21266020-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-9	24-JUN-2023 03:47:34	Mallory Walton	21400001-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-10	24-JUN-2023 04:36:29	Mallory Walton	21400002-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-11	24-JUN-2023 05:25:25	Mallory Walton	21400003-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-12	24-JUN-2023 06:14:18	Mallory Walton	21400004-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-13	24-JUN-2023 07:03:11	Mallory Walton	21400005-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-14	24-JUN-2023 07:52:07	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX

RUN LOG

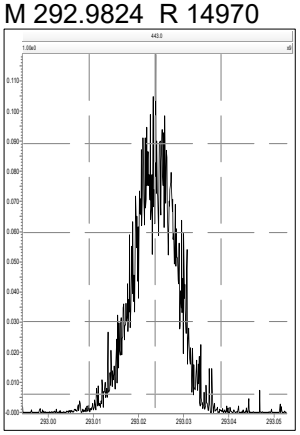
Instrument: HRP722_2

Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f23jun23a_3-1	24-JUN-2023 08:48:51	Mallory Walton	12034326-1 LCS		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-2	24-JUN-2023 09:36:20	Mallory Walton	12034327-1 LCSD		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-3	24-JUN-2023 10:25:15	Mallory Walton	12034325-1 MB		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-4	24-JUN-2023 11:14:10	Mallory Walton	21423001-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-5	24-JUN-2023 12:03:04	Mallory Walton	21423002-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-6	24-JUN-2023 12:52:04	Mallory Walton	21423003-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-7	24-JUN-2023 13:41:03	Mallory Walton	21423004-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-8	24-JUN-2023 14:29:57	Mallory Walton	21423005-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-9	24-JUN-2023 15:18:53	Mallory Walton	21309001-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-10	24-JUN-2023 16:07:53	Mallory Walton	21309002-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-11	24-JUN-2023 16:56:51	Mallory Walton	21309003-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-12	24-JUN-2023 17:45:46	Mallory Walton	21309004-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-13	24-JUN-2023 18:34:41	Mallory Walton	21309005-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-14	24-JUN-2023 19:23:35	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX

Printed: Saturday, June 24, 2023 08:48:47 Eastern Daylight Time

06/26/2023 06/26/2023

M 292.9824 R 14970



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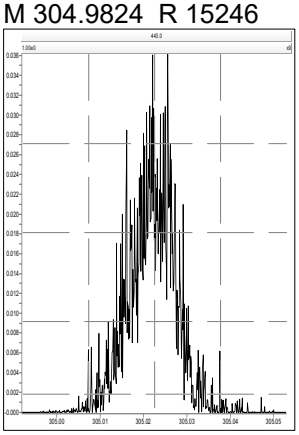

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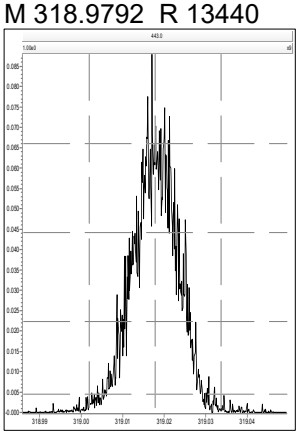

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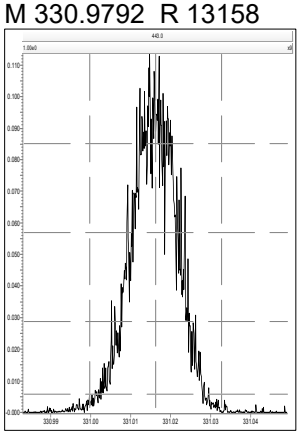
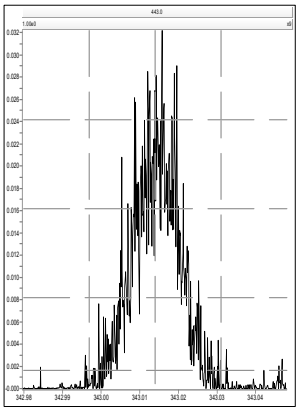


M 342.9792 R 14270



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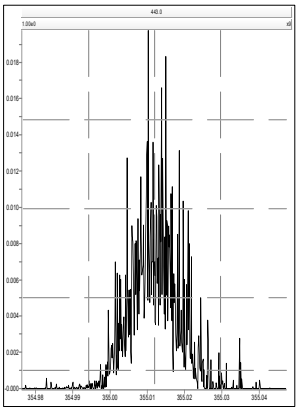
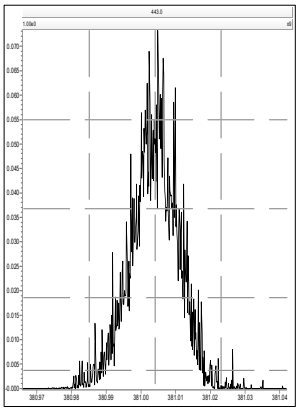


M 380.9760 R 12958



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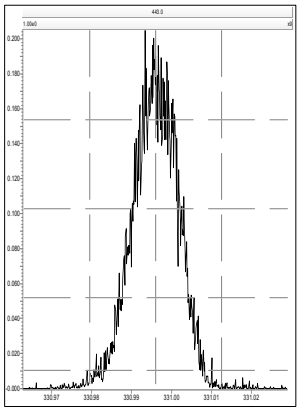

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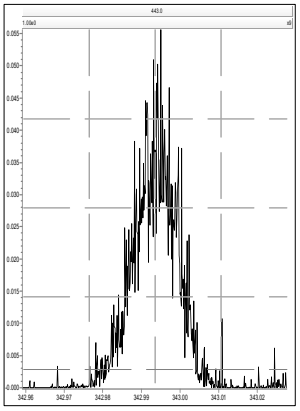
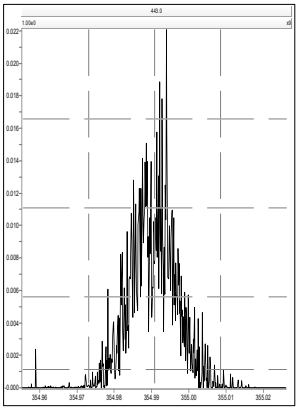


M 354.9792 R 15331



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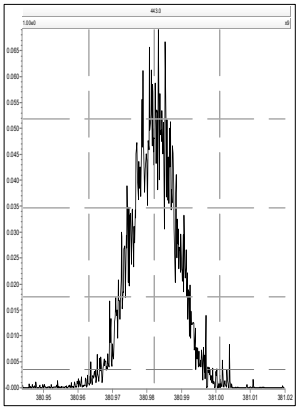
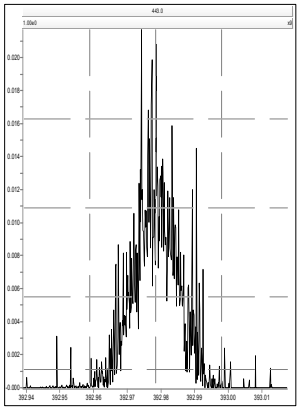
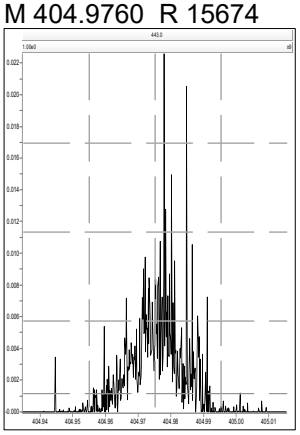


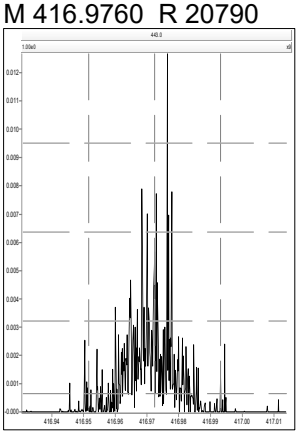
M 392.9760 R 17353



M 404.9760 R 15674



M 416.9760 R 20790



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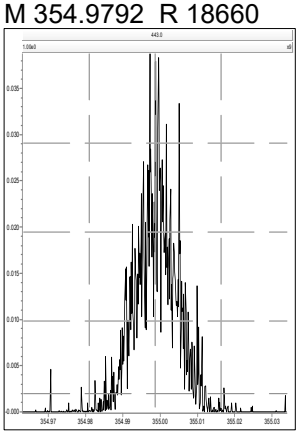
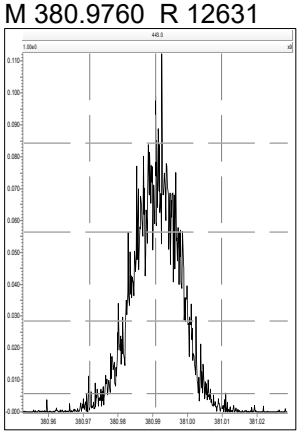


M 380.9760 R 12631



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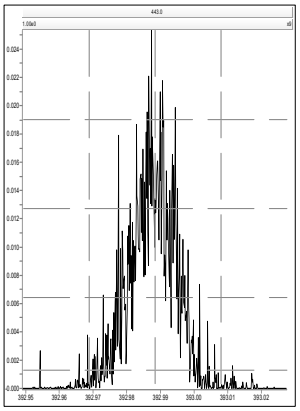
M 392.9760 R 15704



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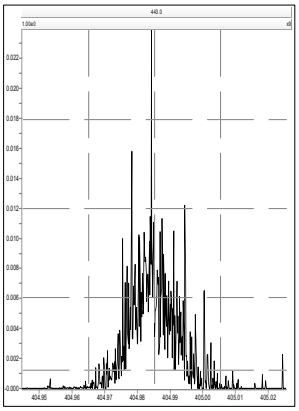

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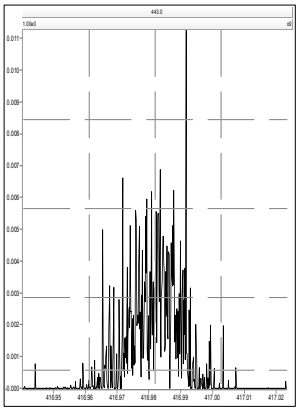

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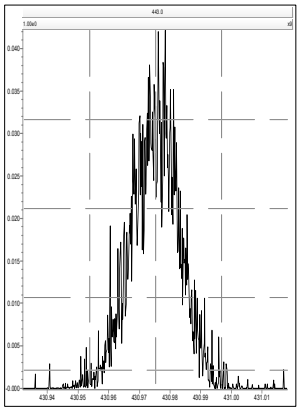

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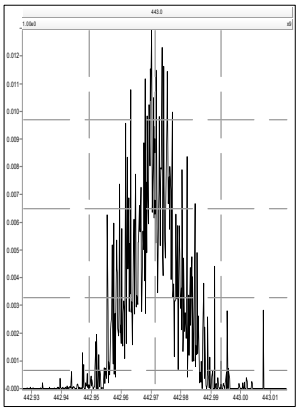

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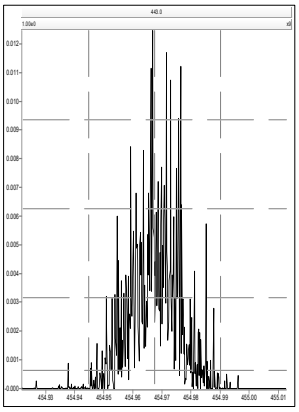

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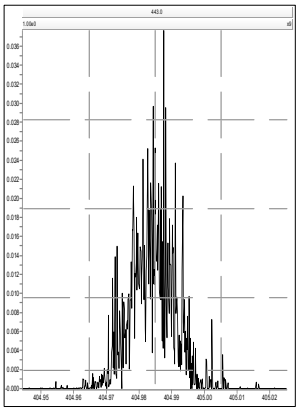

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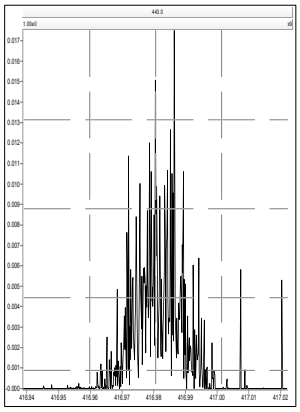

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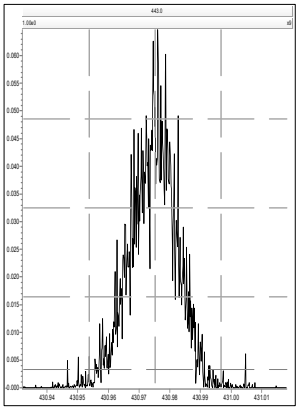

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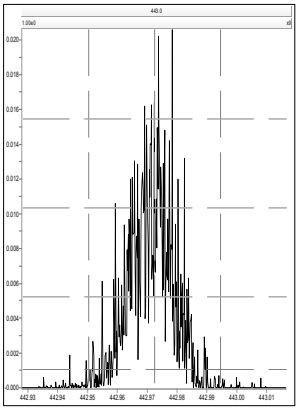
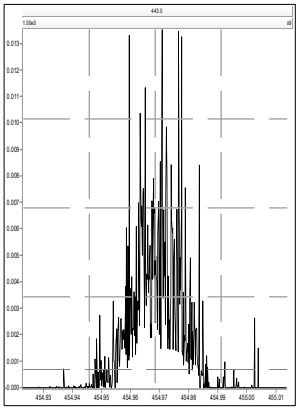


M 454.9728 R 20031



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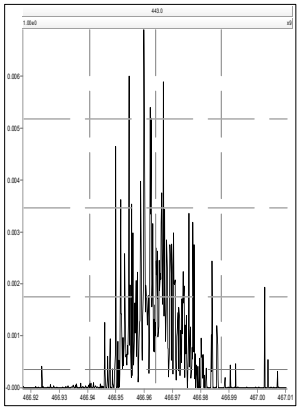

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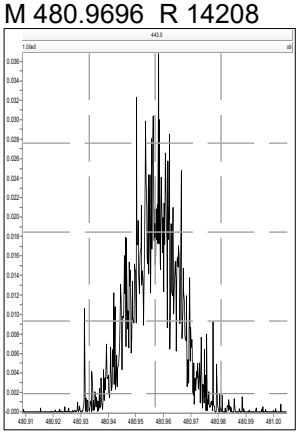
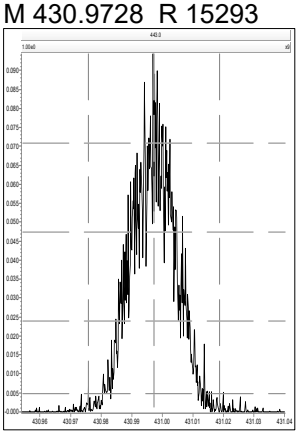
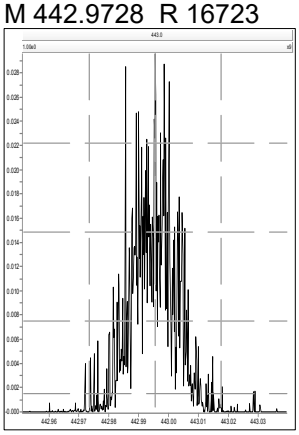


M 430.9728 R 15293



M 442.9728 R 16723



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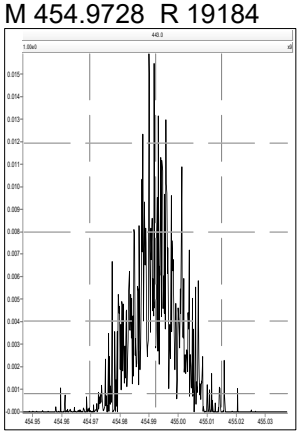

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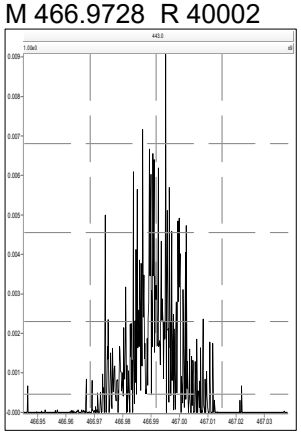
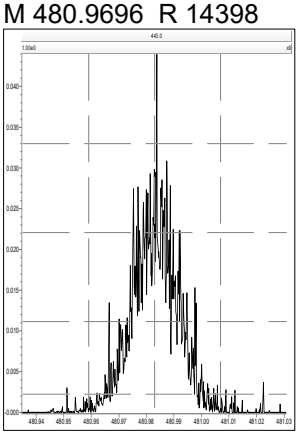
M 466.9728 R 40002



M 480.9696 R 14398



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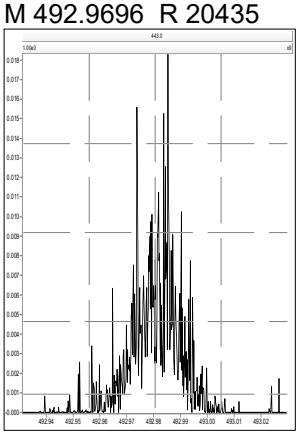
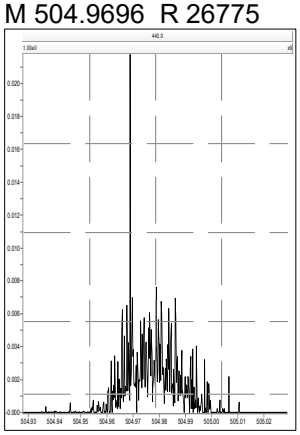


M 504.9696 R 26775



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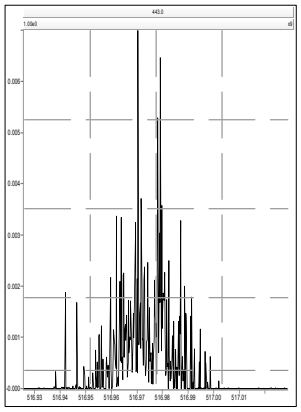

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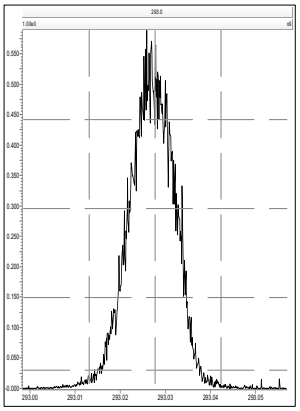
M 292.9824 R 13297



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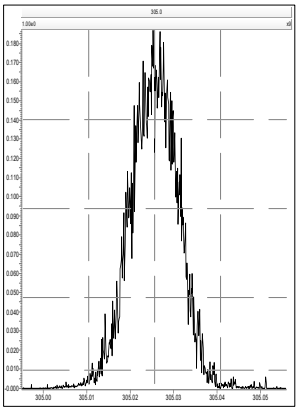

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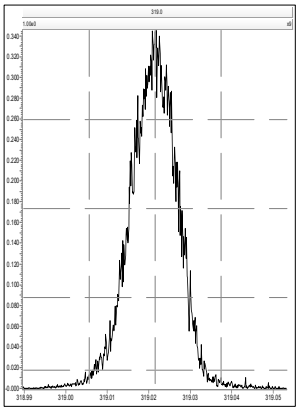

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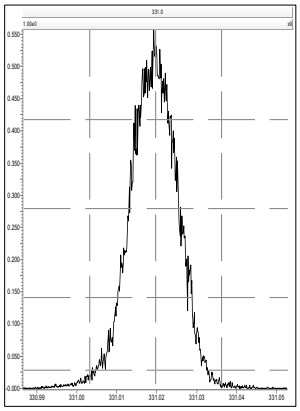

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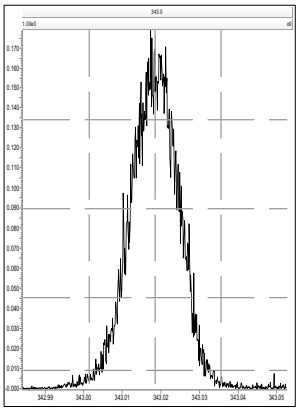

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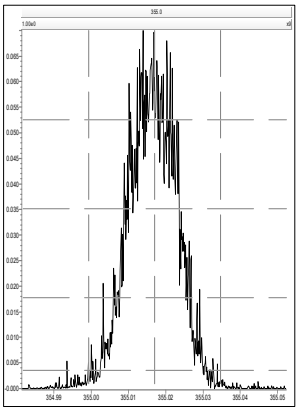

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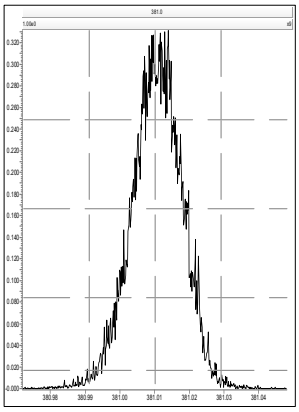

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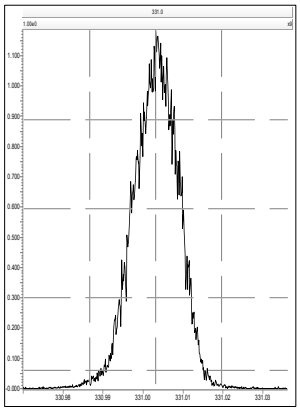
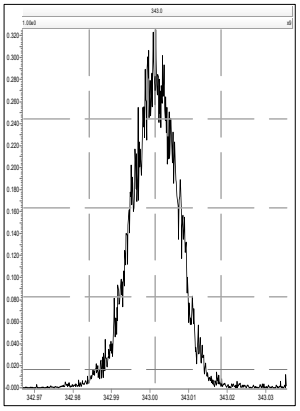


M 342.9792 R 13094



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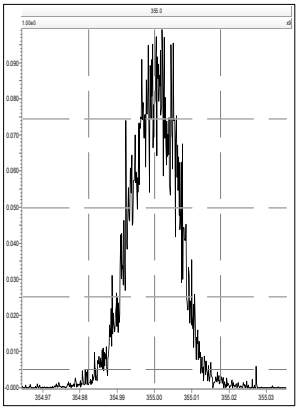

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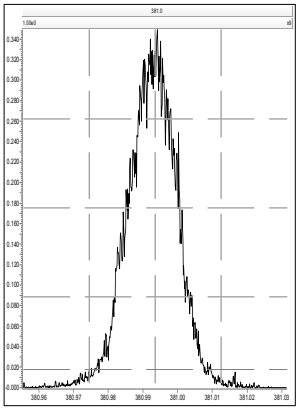

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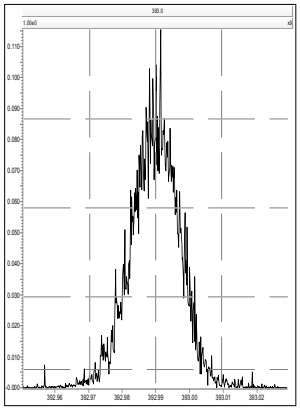

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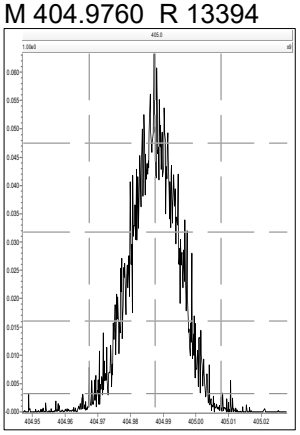

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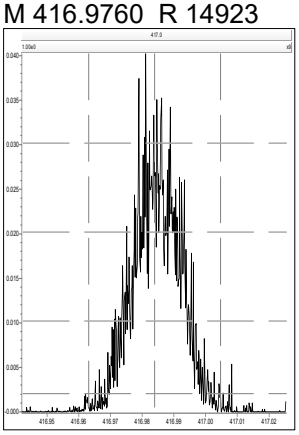

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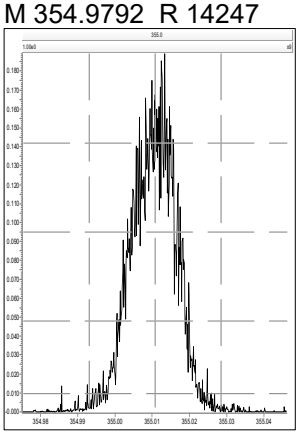

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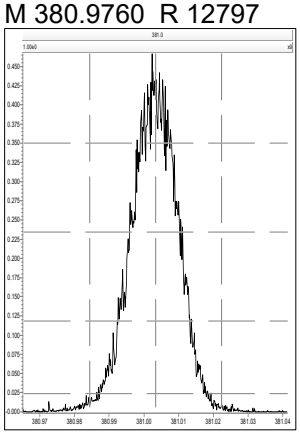

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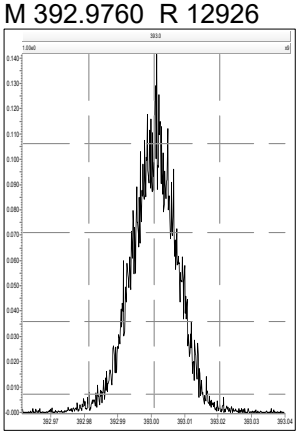

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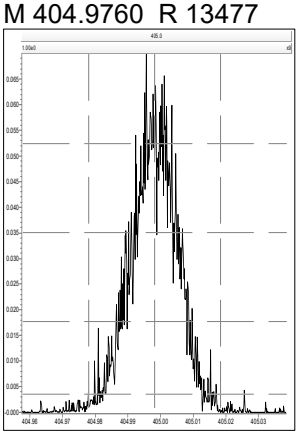

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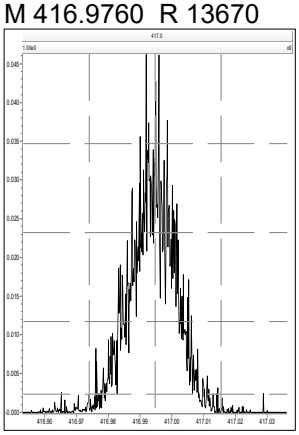
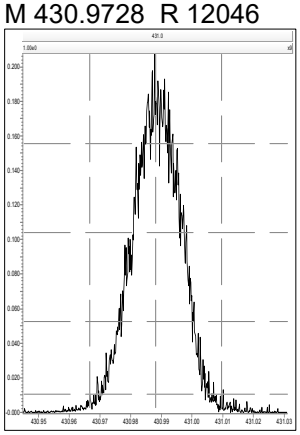
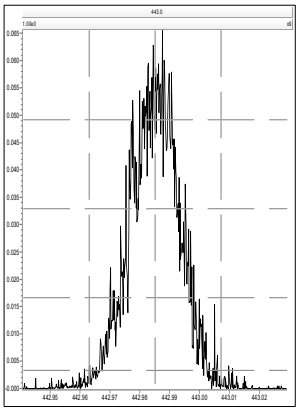


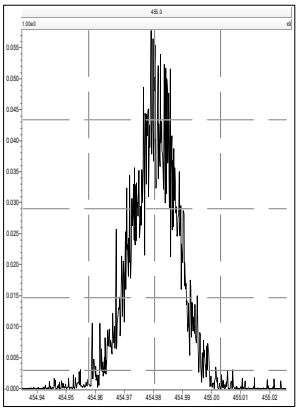
M 430.9728 R 12046



M 442.9728 R 12354



M 454.9728 R 13240



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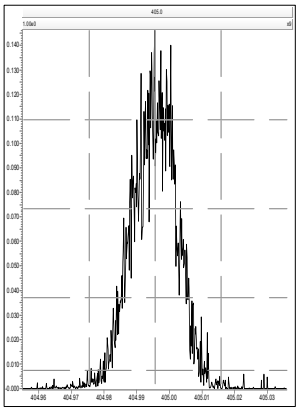

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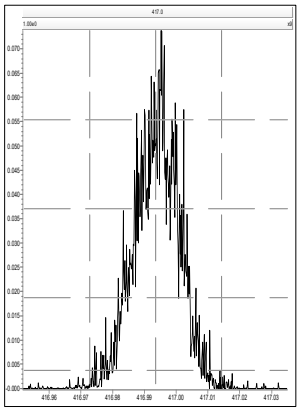
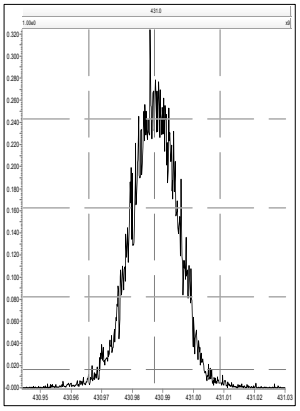
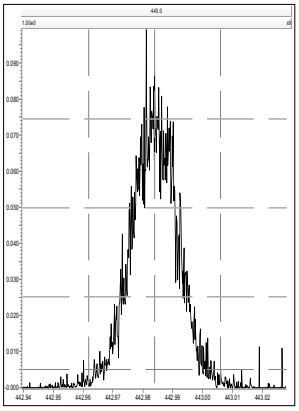


M 430.9728 R 12535



M 442.9728 R 13132



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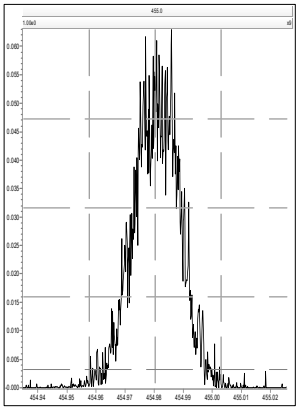

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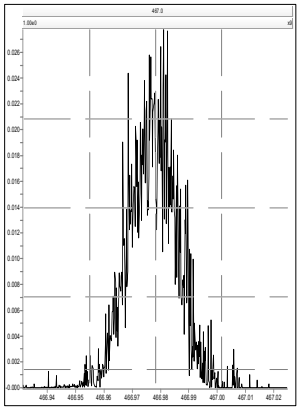
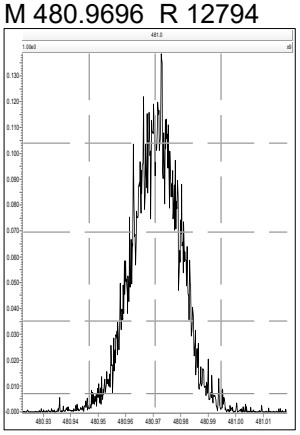


M 480.9696 R 12794



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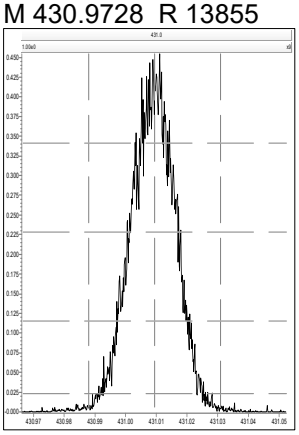

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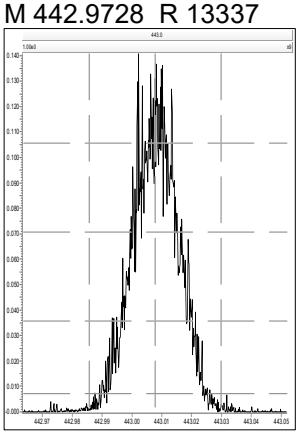

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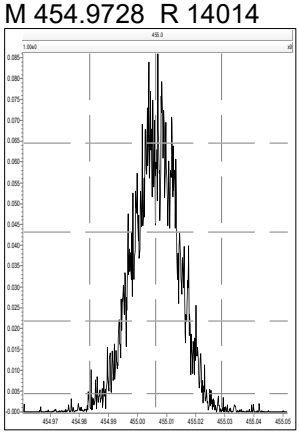

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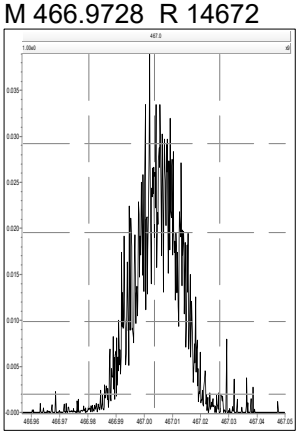

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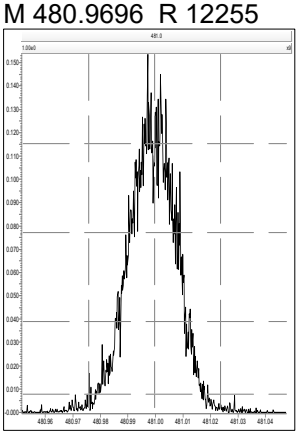

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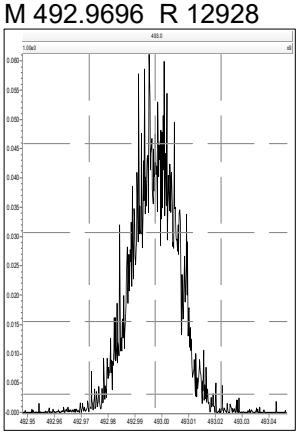

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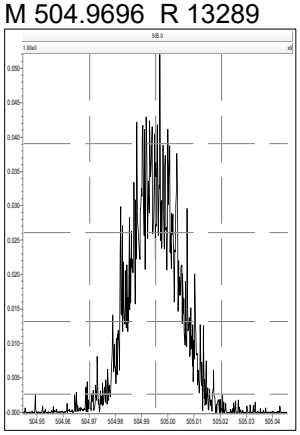

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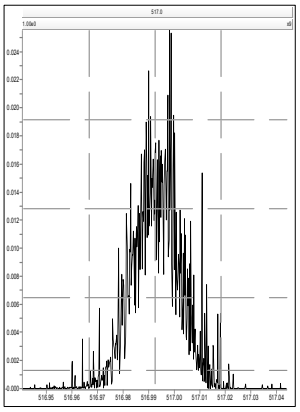
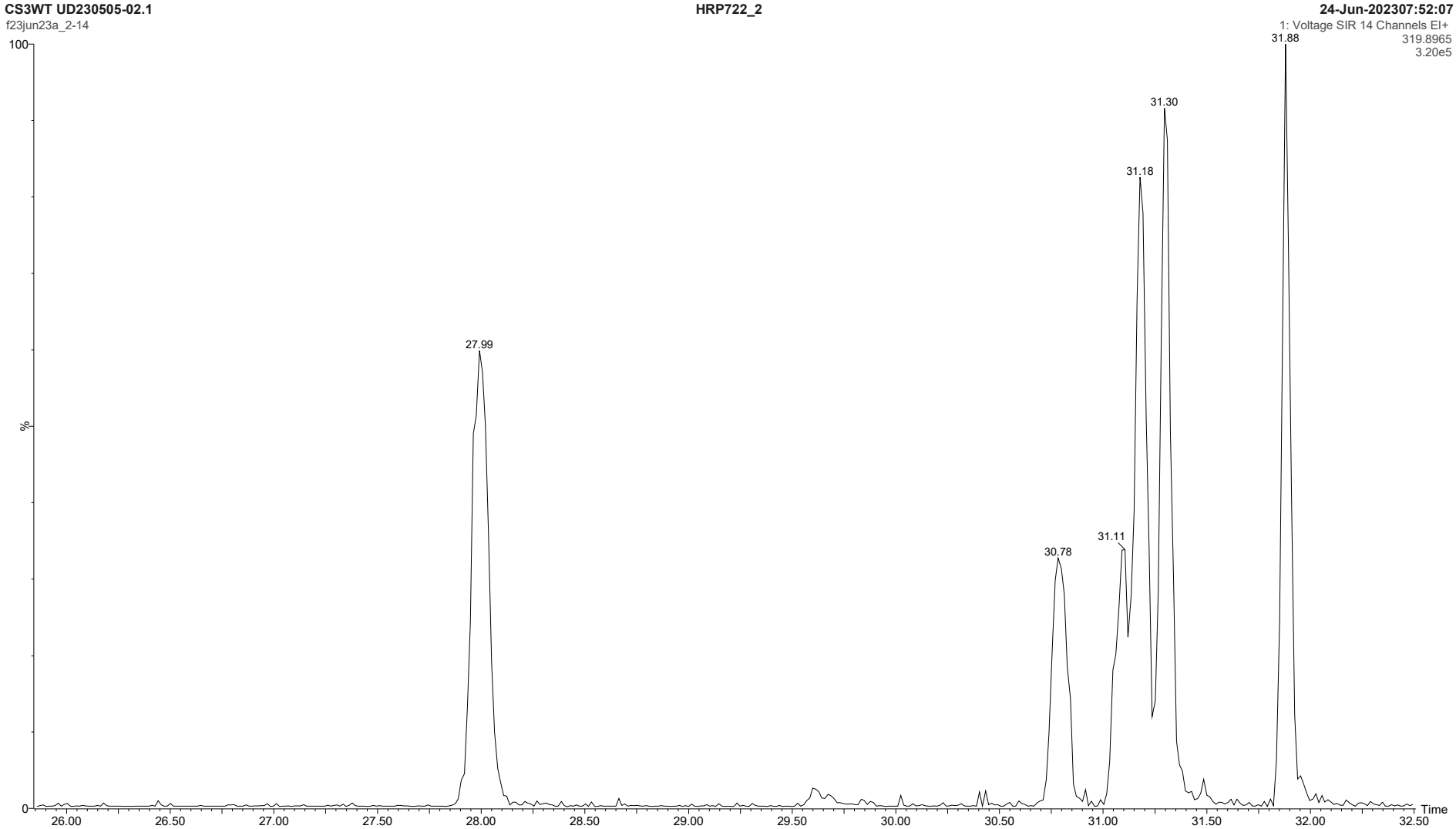


COLUMN CHECK (2378-TCDD 13%)



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Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_2-14.qld

06/26/2023

Last Altered: Monday, June 26, 2023 10:01:08 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:02:07 Eastern Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\WDM_f21jun23.mdb 21 Jun 2023 15:32:13
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

	Name	RT
1	First TCDF	26.27
2	Last TCDF	31.97
3	First PeCDF	31.94
4	Last PeCDF	34.62
5	First HxCDF	35.10
6	Last HxCDF	37.43
7	First HpCDF	38.90
8	Last HpCDF	40.83
9	OCDF	44.68
10	First TCDD	27.99
11	2378-TCDD	31.30
12	Last TCDD	31.88
13	First PeCDD	32.81
14	Last PeCDD	34.42
15	First HxCDD	35.53
16	Last HxCDD	37.10
17	First HpCDD	39.23
18	Last HpCDD	40.16
19	OCDD	44.38

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:01:08 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:02:28 Eastern Daylight Time

06/26/2023

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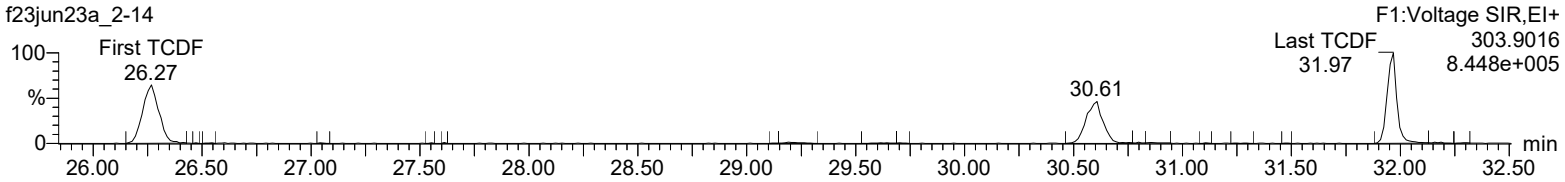
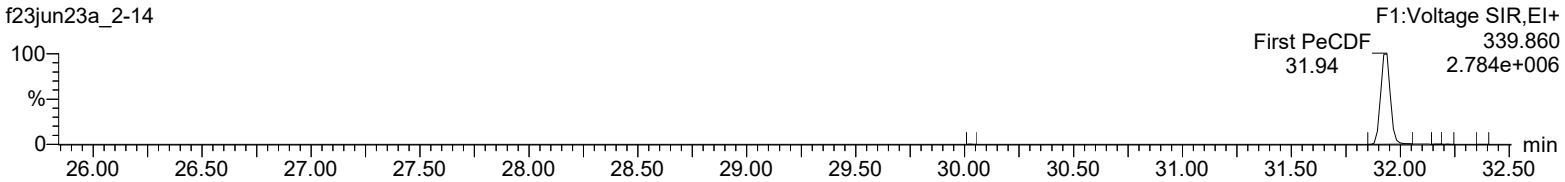
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

First TCDF



First PeCDF



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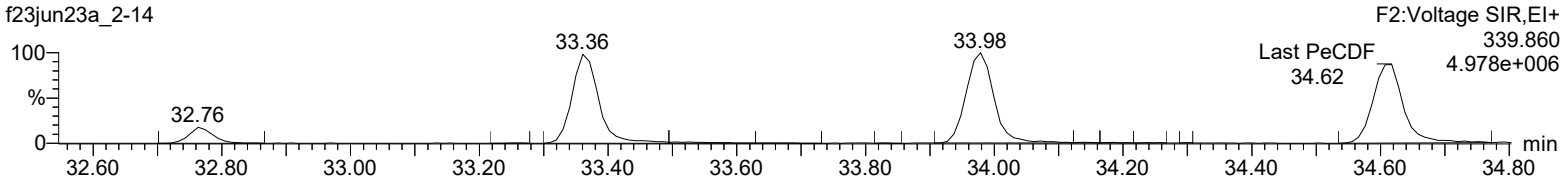
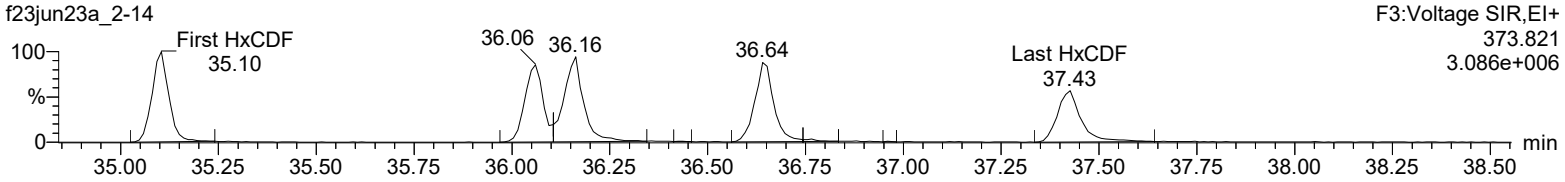
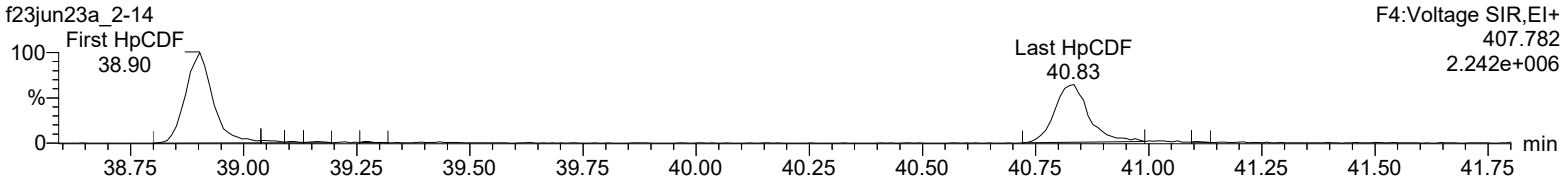


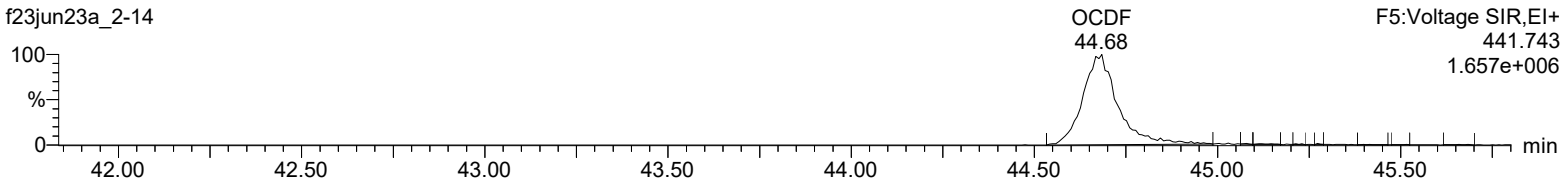
First HxCDF



First HpCDF



OCDF



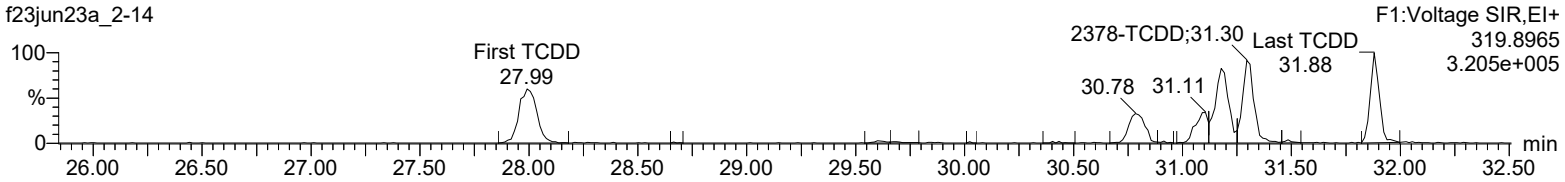
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_2-14.qld

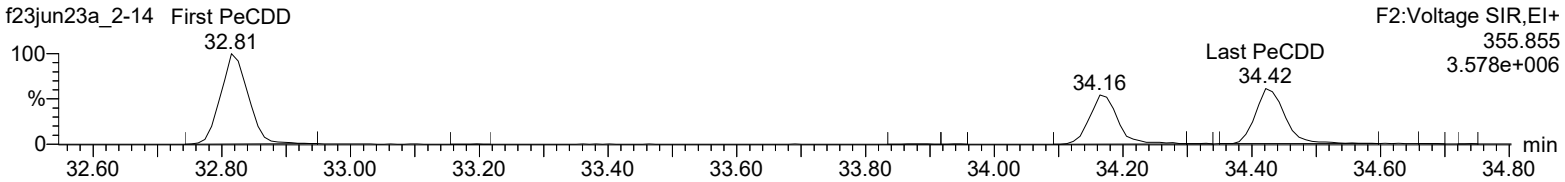
Last Altered: Monday, June 26, 2023 10:01:08 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:02:28 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

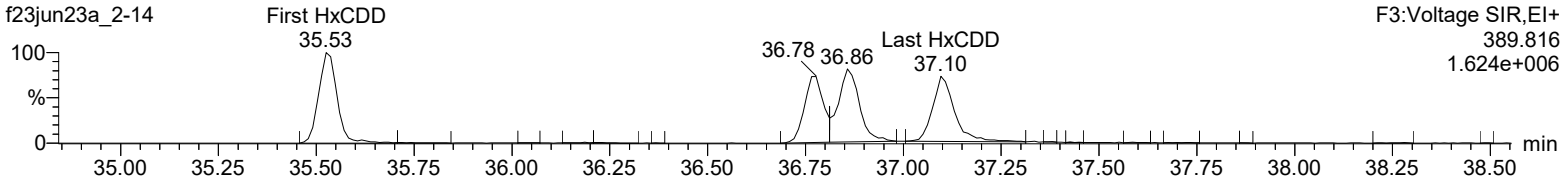
First TCDD



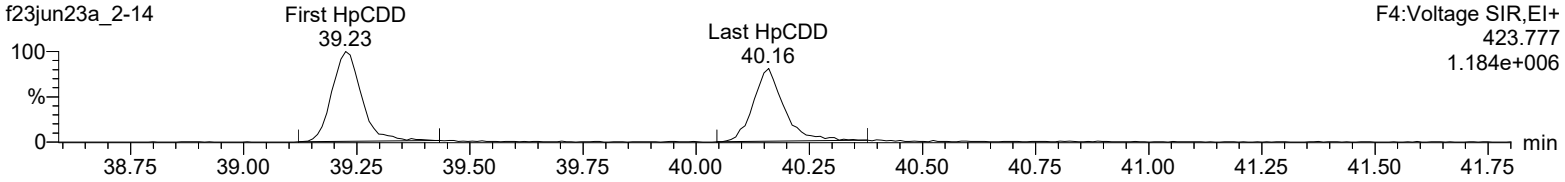
First PeCDD



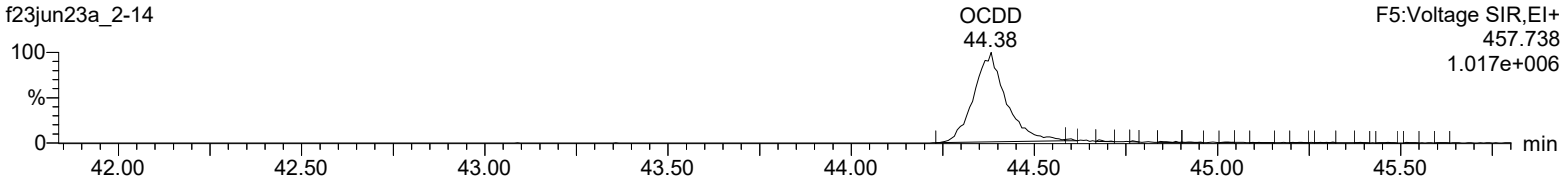
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:47 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	1.76e4	2.33e4	4.09e4	31.30	1.000	0.75	NO	10.683	0.144	1.175	1.100	6.8	2.92e5	1873	156.0	3.60e5	1588	226.4	dd	dd
2	12378-PeCDD	9.84e4	5.77e4	1.56e5	34.16	1.000	1.70	NO	49.179	0.624	1.145	1.164	-1.6	1.94e6	7931	244.8	1.11e6	7205	154.6	bd	bd
3	123478-HxCDD	6.71e4	5.39e4	1.21e5	36.78	1.000	1.25	NO	49.110	0.572	1.053	1.073	-1.8	1.19e6	5099	233.7	9.45e5	4898	193.0	bd	bd
4	123678-HxCDD	8.49e4	7.04e4	1.55e5	36.86	1.000	1.21	NO	50.570	0.511	1.076	1.064	1.1	1.33e6	5099	259.9	1.05e6	4898	213.6	dd	dd
5	123789-HxCDD	7.94e4	6.32e4	1.43e5	37.10	1.007	1.26	NO	51.601	0.539	1.100	1.066	3.2	1.19e6	5099	232.9	8.95e5	4898	182.8	db	dd
6	1234678-HpCDD	7.45e4	6.46e4	1.39e5	40.16	1.001	1.15	NO	49.634	1.07	1.219	1.228	-0.7	9.55e5	7380	129.3	8.26e5	7105	116.3	bb	bb
7	OCDD	1.02e5	1.12e5	2.14e5	44.38	1.001	0.92	NO	100.217	1.36	1.109	1.107	0.2	1.00e6	4049	248.2	1.02e6	6612	154.6	bd	bd
8	2378-TCDF	3.50e4	4.33e4	7.83e4	30.61	1.001	0.81	NO	10.401	0.174	1.407	1.352	4.0	3.90e5	2447	159.5	4.43e5	2973	148.9	bd	bd
9	12378-PeCDF	2.33e5	1.42e5	3.75e5	33.36	1.000	1.64	NO	53.395	0.396	1.360	1.274	6.8	4.89e6	11430	427.9	2.85e6	11658	244.9	bd	bd
10	23478-PeCDF	2.47e5	1.48e5	3.96e5	33.98	1.000	1.67	NO	51.596	0.370	1.439	1.394	3.2	4.96e6	11430	434.0	3.14e6	11658	269.8	bd	bb
11	123478-HxCDF	1.43e5	1.08e5	2.51e5	36.06	1.000	1.32	NO	49.038	0.445	1.391	1.418	-1.9	2.63e6	8750	300.0	1.94e6	7817	247.7	bd	bd
12	123678-HxCDF	1.65e5	1.28e5	2.94e5	36.16	1.000	1.29	NO	48.941	0.426	1.349	1.378	-2.1	2.89e6	8750	330.3	2.16e6	7817	275.8	db	db
13	234678-HxCDF	1.51e5	1.12e5	2.64e5	36.64	1.000	1.35	NO	48.111	0.471	1.368	1.422	-3.8	2.70e6	8750	308.0	1.99e6	7817	254.2	bd	bb
14	123789-HxCDF	1.20e5	8.73e4	2.07e5	37.43	1.000	1.37	NO	50.722	0.683	1.321	1.302	1.4	1.74e6	8750	198.8	1.25e6	7817	159.5	bb	bd
15	1234678-HpCDF	1.56e5	1.56e5	3.12e5	38.90	1.001	1.00	NO	51.885	0.528	1.436	1.384	3.8	2.24e6	9736	230.0	2.19e6	8260	265.6	bd	bd
16	1234789-HpCDF	1.25e5	1.22e5	2.46e5	40.83	1.001	1.02	NO	52.252	0.837	1.425	1.364	4.5	1.43e6	9736	147.1	1.43e6	8260	173.6	bb	bb
17	OCDF	1.81e5	1.95e5	3.76e5	44.68	1.007	0.93	NO	111.040	0.933	1.946	1.752	11.0	1.65e6	7700	214.2	1.71e6	3911	438.5	bb	bd
18	13C-2378-TCDD	1.57e5	1.91e5	3.48e5	31.28	1.017	0.82	NO	96.507	0.292	1.099	1.139	-3.5	2.47e6	2468	1002.7	3.07e6	2721	1128.9	bd	bd
19	13C-12378-PeCDD	1.70e5	1.03e5	2.73e5	34.15	1.110	1.65	NO	105.719	0.684	0.860	0.813	5.7	3.24e6	5614	577.6	2.00e6	3069	651.0	bd	bd
20	13C-123478-HxCDD	1.28e5	1.01e5	2.30e5	36.77	0.991	1.26	NO	96.209	0.661	0.815	0.847	-3.8	2.28e6	5266	432.1	1.86e6	3455	538.0	bd	bd
21	13C-123678-HxCDD	1.61e5	1.27e5	2.89e5	36.85	0.994	1.27	NO	99.723	0.546	1.024	1.027	-0.3	2.57e6	5266	487.7	1.98e6	3455	574.1	dd	dd
22	13C-1234678-HpCDD	1.19e5	1.09e5	2.28e5	40.14	1.082	1.09	NO	101.217	0.783	0.810	0.800	1.2	1.44e6	5267	273.0	1.32e6	4492	293.6	bd	bd
23	13C-OCDD	1.83e5	2.03e5	3.86e5	44.36	1.196	0.90	NO	210.036	1.02	0.685	0.653	5.0	1.68e6	5114	329.4	1.91e6	5285	361.5	bd	bd
24	13C-2378-TCDF	2.52e5	3.05e5	5.57e5	30.58	0.994	0.82	NO	101.262	0.238	1.756	1.734	1.3	2.61e6	4345	600.7	3.15e6	2094	1506.4	bd	bd
25	13C-12378-PeCDF	3.43e5	2.08e5	5.51e5	33.35	1.084	1.65	NO	101.177	0.964	1.739	1.719	1.2	7.13e6	15320	465.2	4.33e6	10554	410.4	bd	bd
26	13C-23478-PeCDF	3.46e5	2.04e5	5.50e5	33.97	1.104	1.69	NO	107.181	1.02	1.735	1.619	7.2	7.04e6	15320	459.6	4.25e6	10554	402.7	bd	db
27	13C-123478-HxCDF	1.24e5	2.38e5	3.62e5	36.05	0.972	0.52	NO	99.408	0.849	1.284	1.291	-0.6	2.25e6	8503	264.5	4.33e6	8555	506.0	bd	bd
28	13C-123678-HxCDF	1.52e5	2.83e5	4.35e5	36.15	0.975	0.54	NO	96.678	0.686	1.545	1.598	-3.3	2.47e6	8503	290.3	4.61e6	8555	539.3	dd	dd
29	13C-234678-HxCDF	1.34e5	2.51e5	3.86e5	36.64	0.988	0.53	NO	102.312	0.819	1.369	1.338	2.3	2.15e6	8503	253.1	4.10e6	8555	479.1	bd	bd
30	13C-123789-HxCDF	1.05e5	2.09e5	3.14e5	37.41	1.009	0.50	NO	93.610	0.921	1.114	1.190	-6.4	1.56e6	8503	183.0	2.90e6	8555	339.5	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:47 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.35e5	2.99e5	4.34e5	38.88	1.048	0.45	NO	100.345	0.789	1.542	1.537	0.3	1.92e6	7322	261.9	4.09e6	11558	353.5	bb	bd
32	13C-1234789-HpCDF	1.11e5	2.35e5	3.46e5	40.81	1.101	0.47	NO	102.489	1.01	1.228	1.198	2.5	1.27e6	7322	172.9	2.67e6	11558	231.3	bd	bd
33	13C-1234-TCDD	1.43e5	1.74e5	3.17e5	30.77	0.000	0.82	NO	100.000	0.332	1.000	1.000	0.0	1.76e6	2468	713.4	2.15e6	2721	790.2	bd	bd
34	13C-123789-HxCDD	1.56e5	1.25e5	2.82e5	37.08	0.000	1.25	NO	100.000	0.560	1.000	1.000	0.0	2.16e6	5266	410.3	1.65e6	3455	478.1	dd	dd
35	37Cl-2378-TCDD	3.63e4		3.63e4	31.30	1.017			10.192	0.105	1.146	1.124	1.9	5.81e5	1848	314.5				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

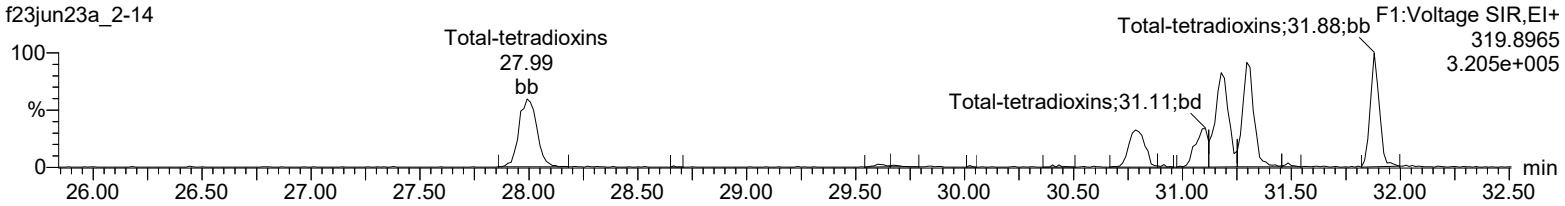
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

06/26/2023

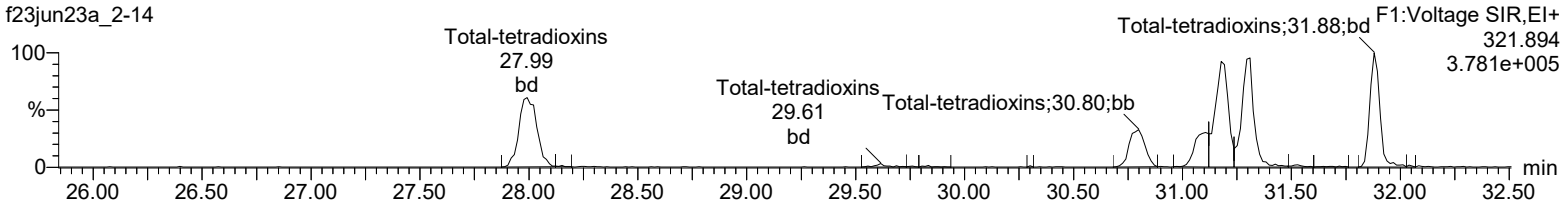
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

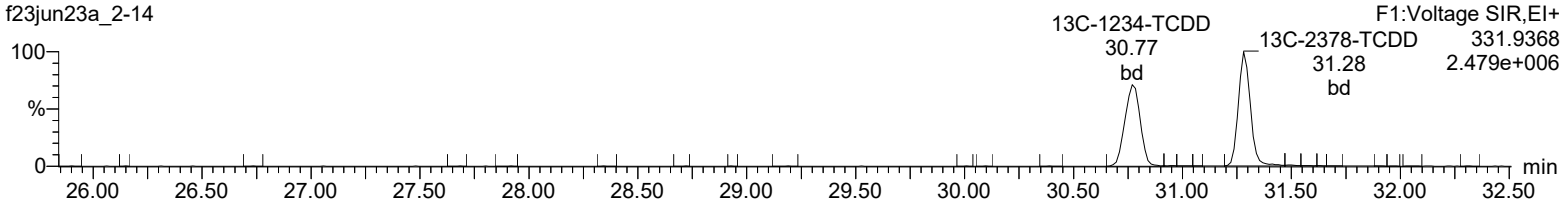
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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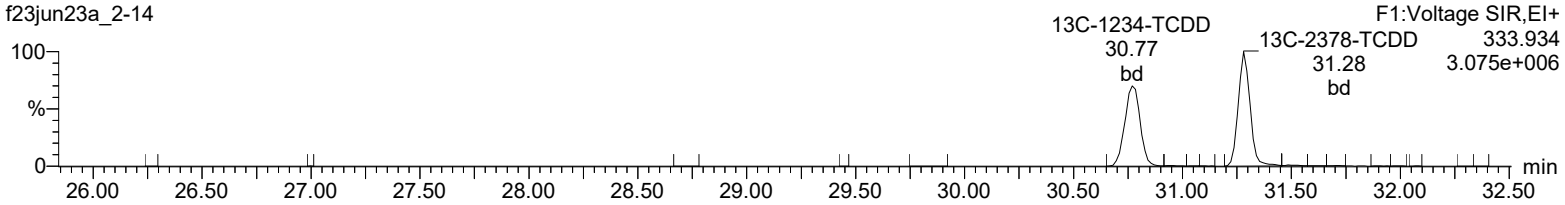
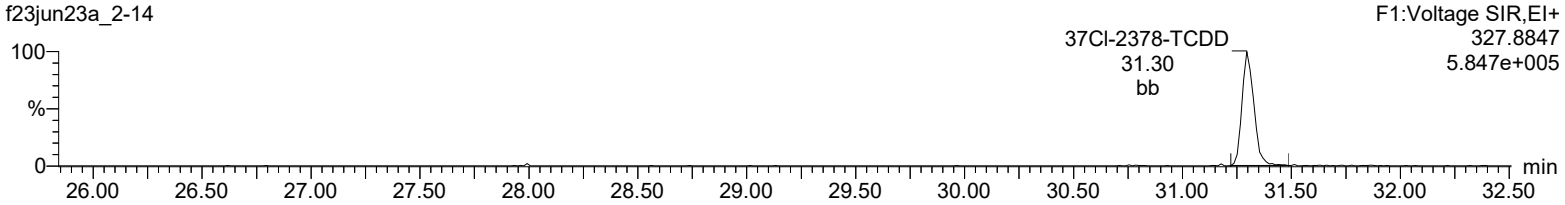
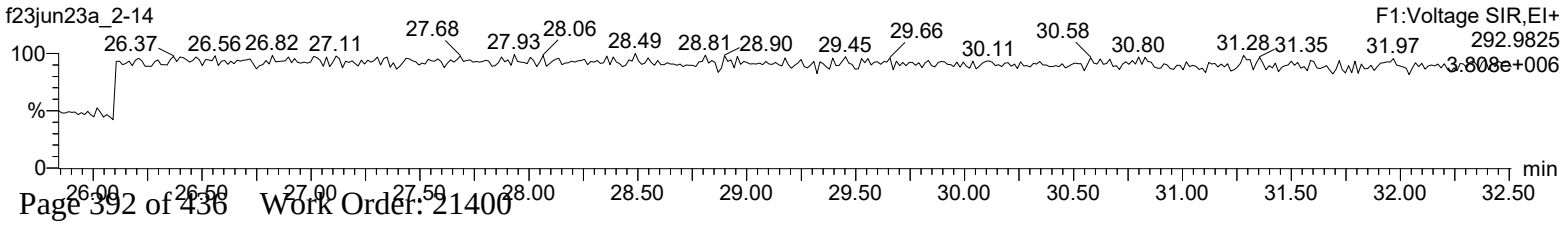


37Cl-2378-TCDD



Lock Mass F1



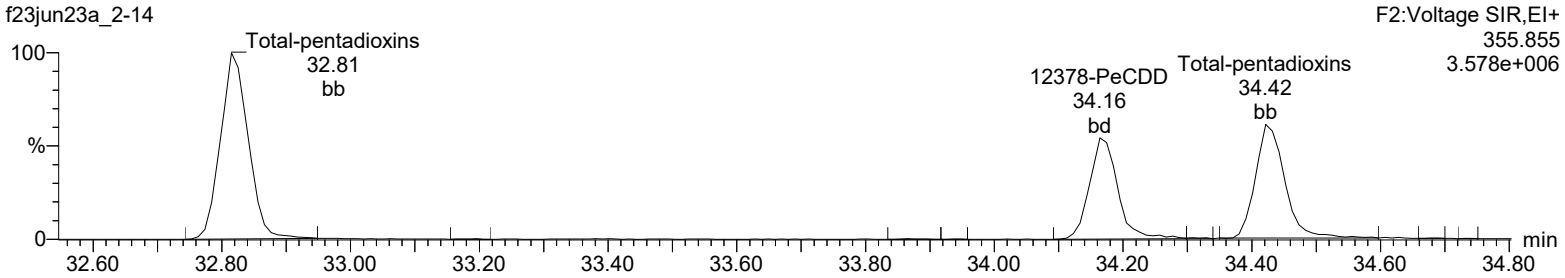
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

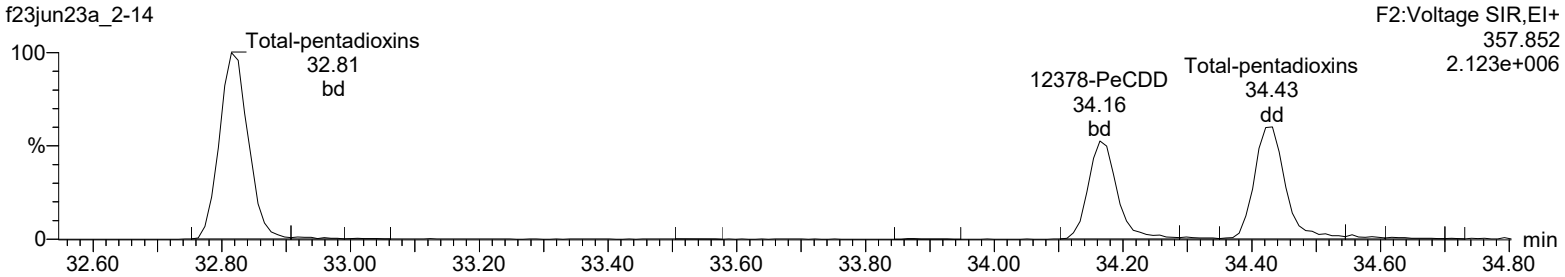
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

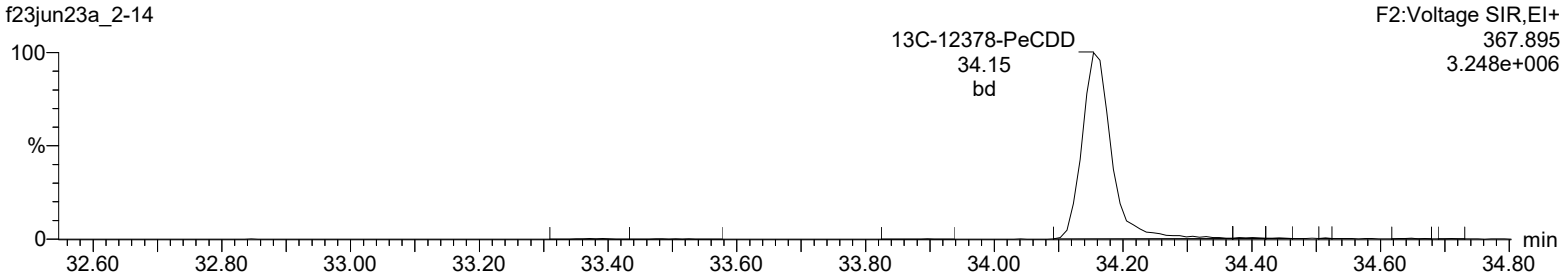
Total-pentadioxins



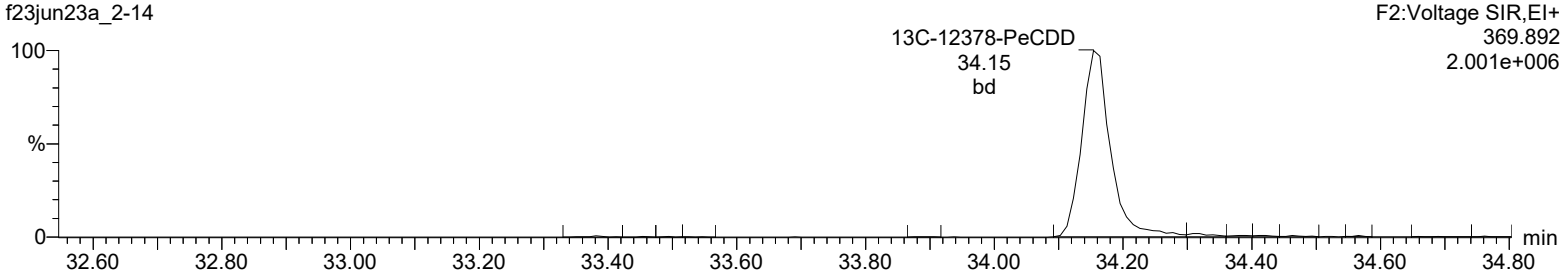
Total-pentadioxins



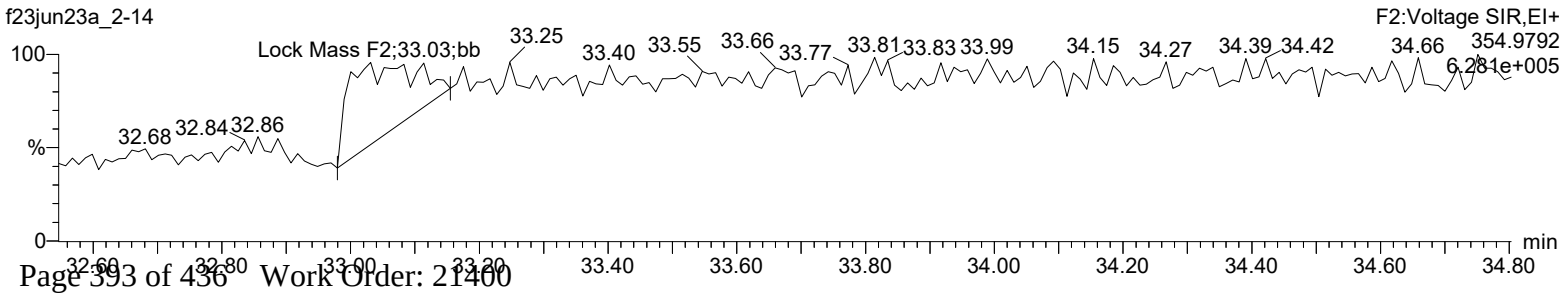
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



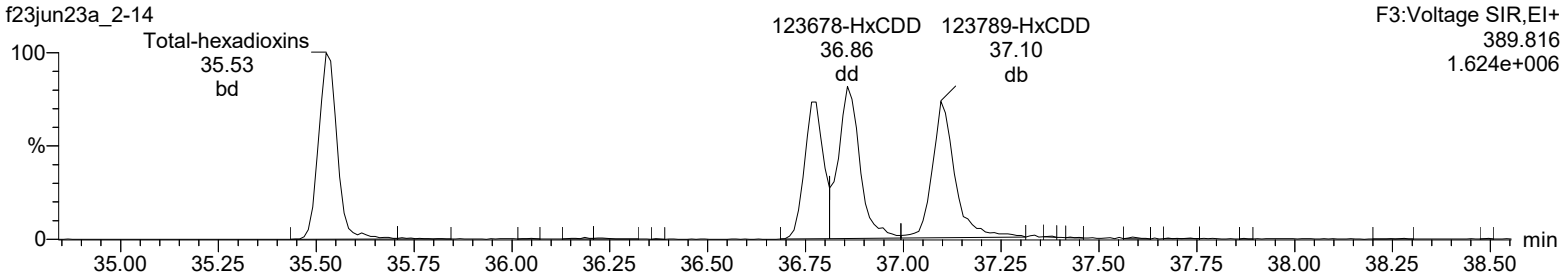
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

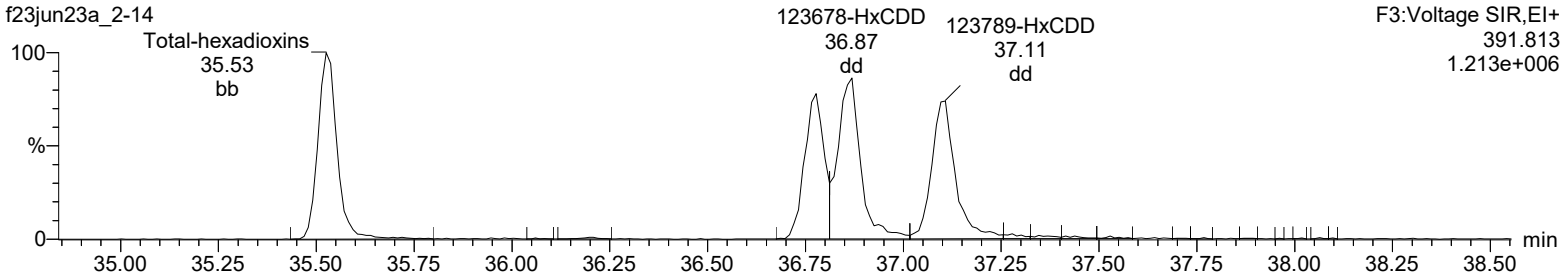
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

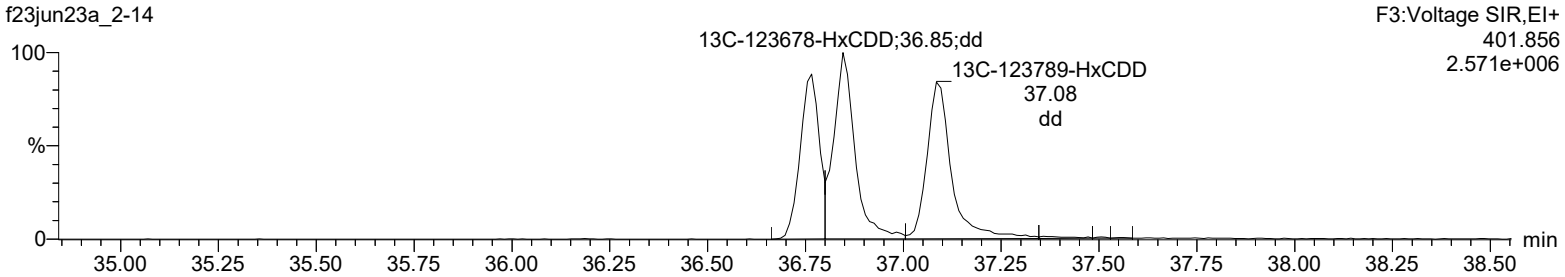
Total-hexadioxins



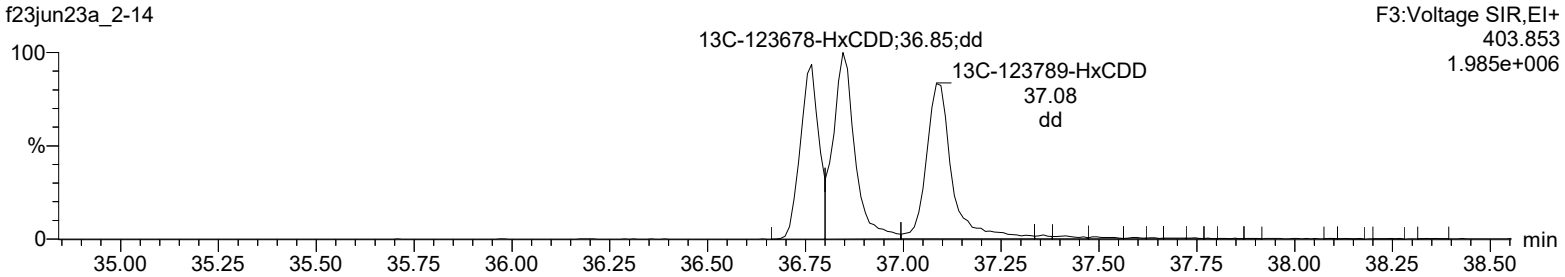
Total-hexadioxins



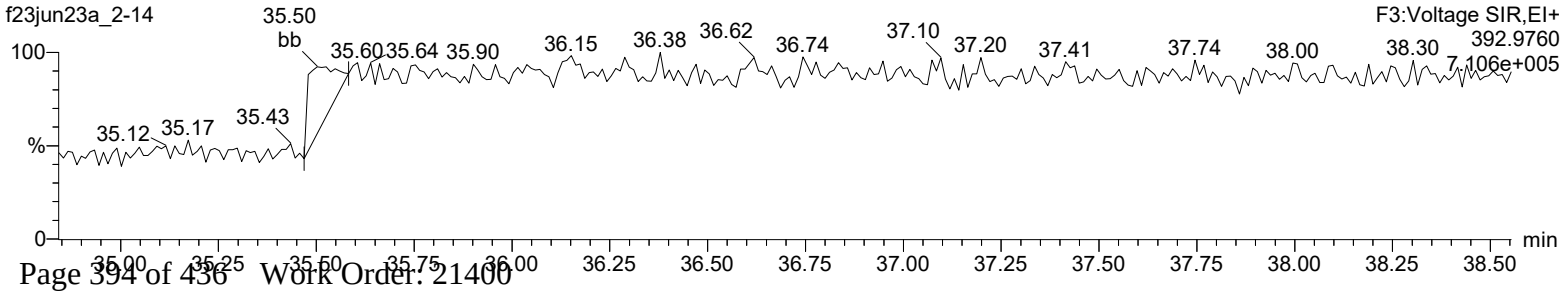
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



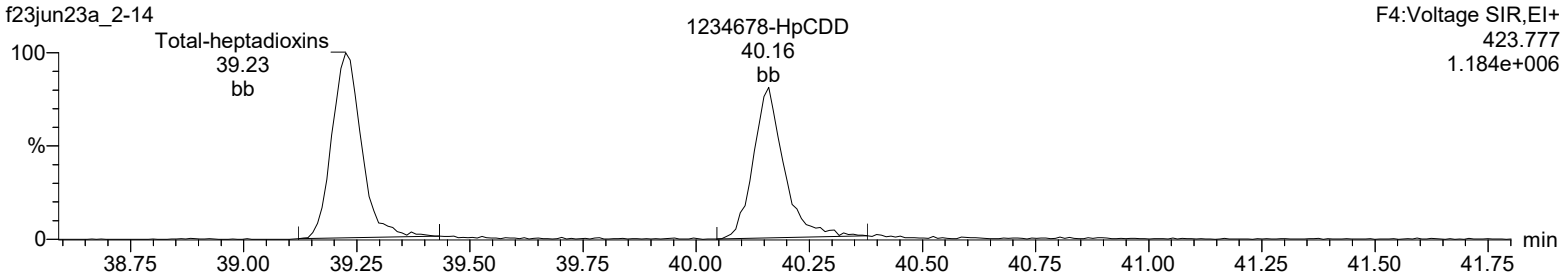
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

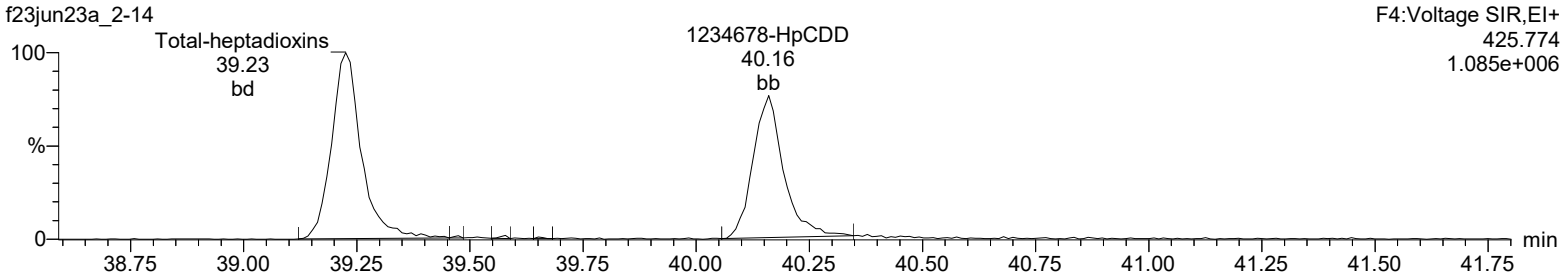
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

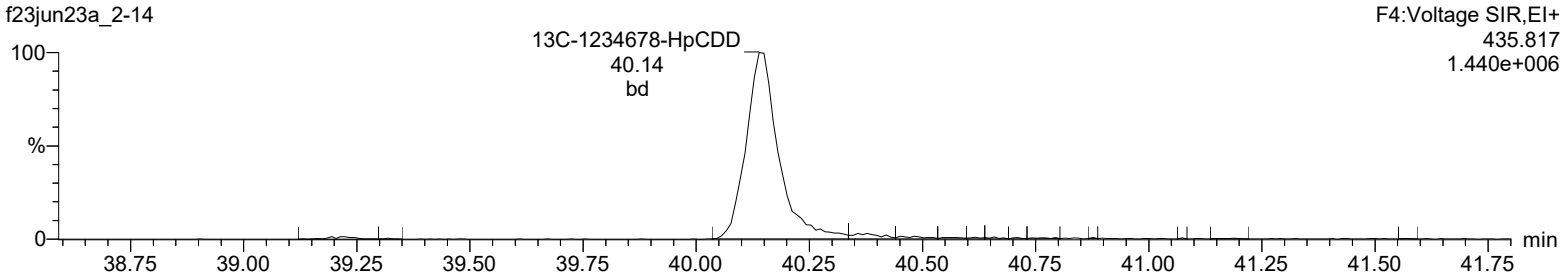
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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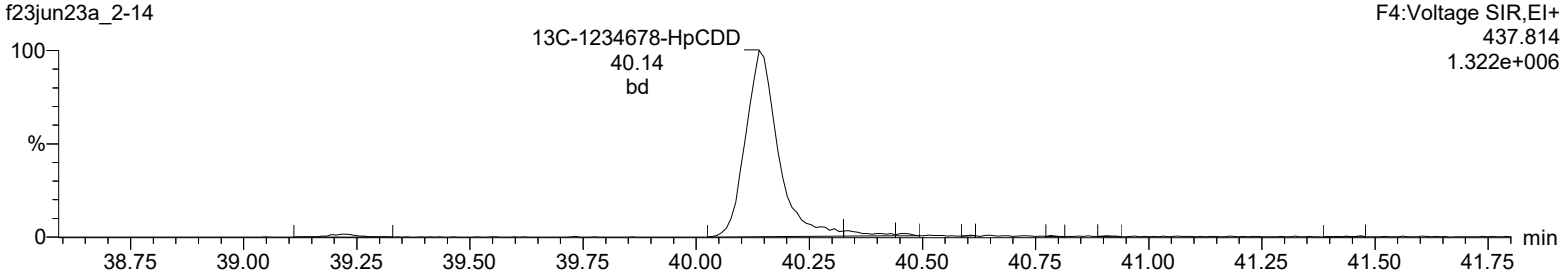
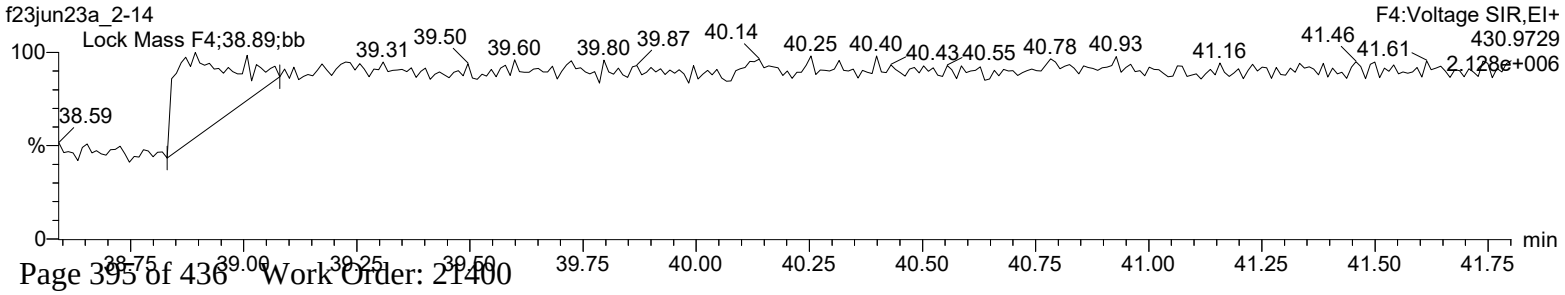


Lock Mass F4



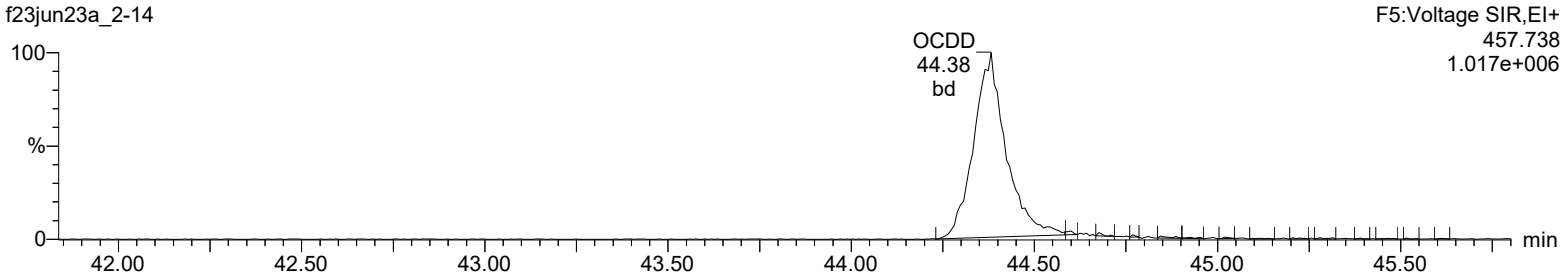
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

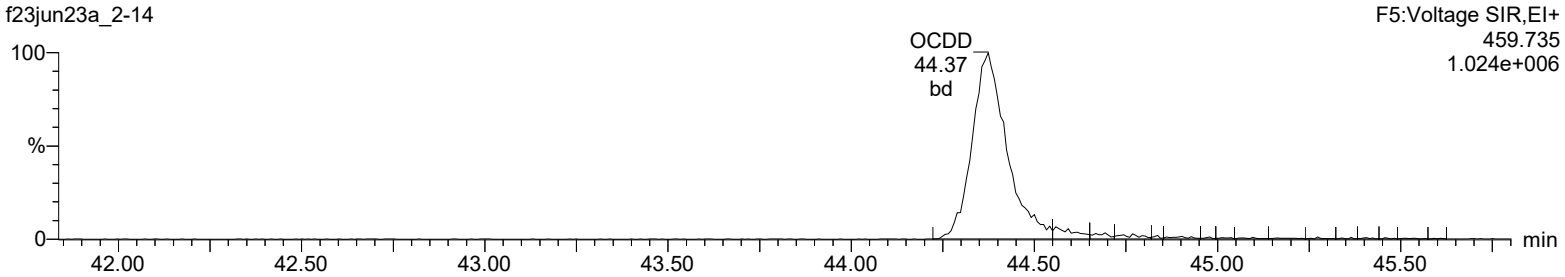
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

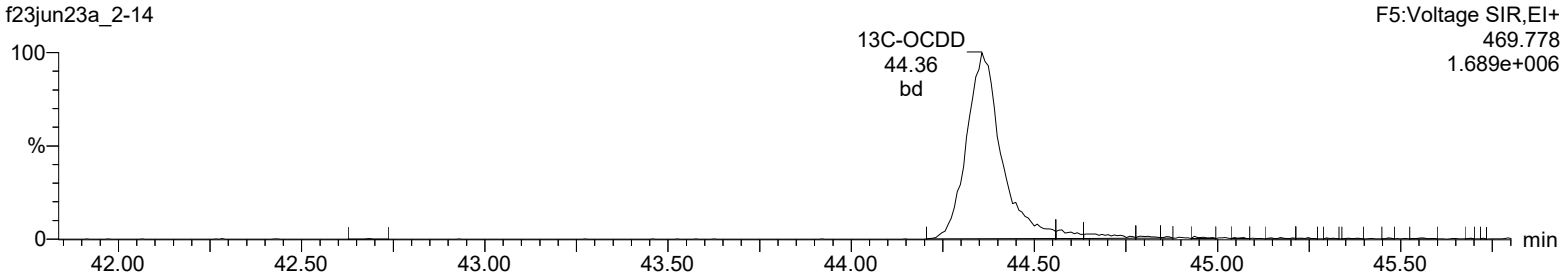
OCDD



OCDD



13C-OCDD



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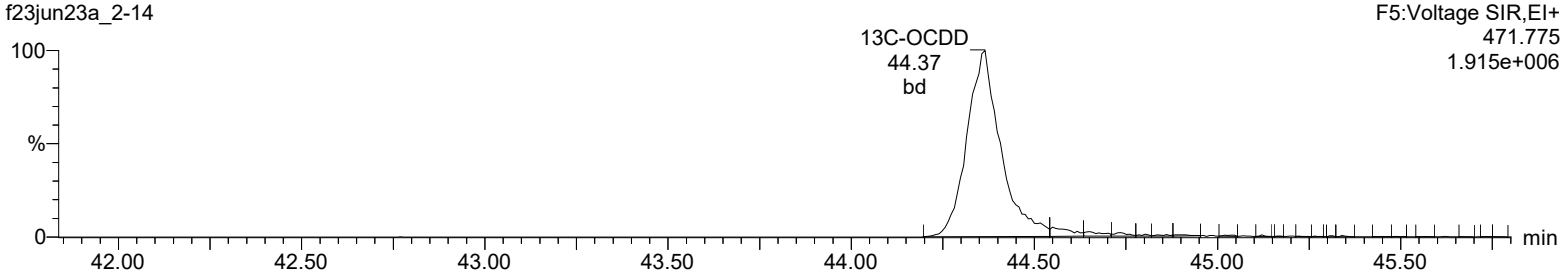
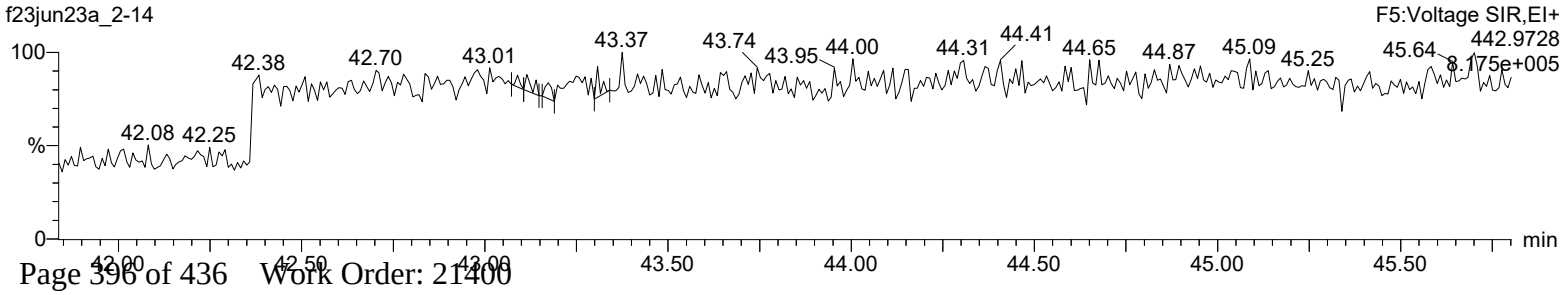


Lock Mass F5



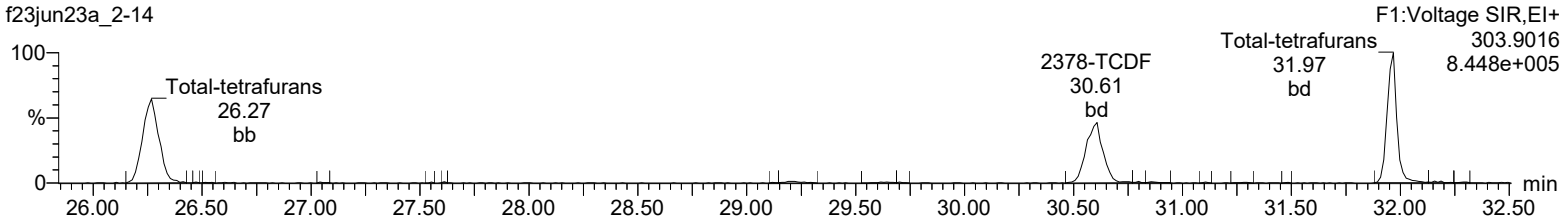
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

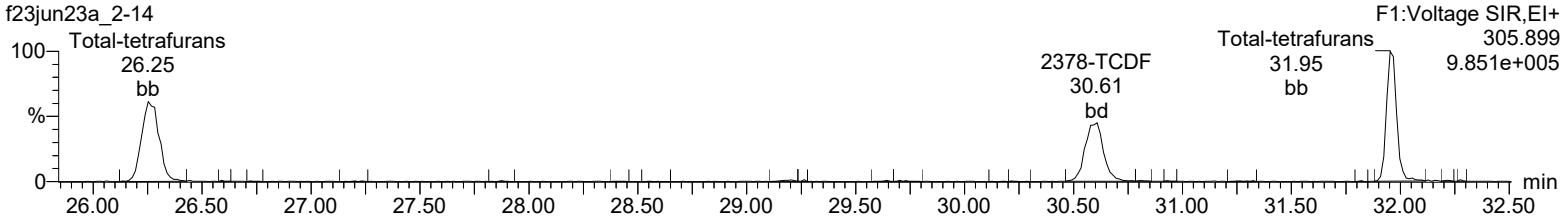
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

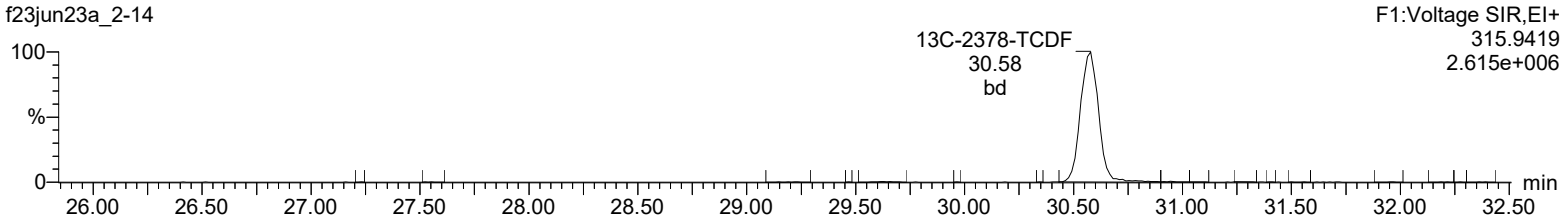
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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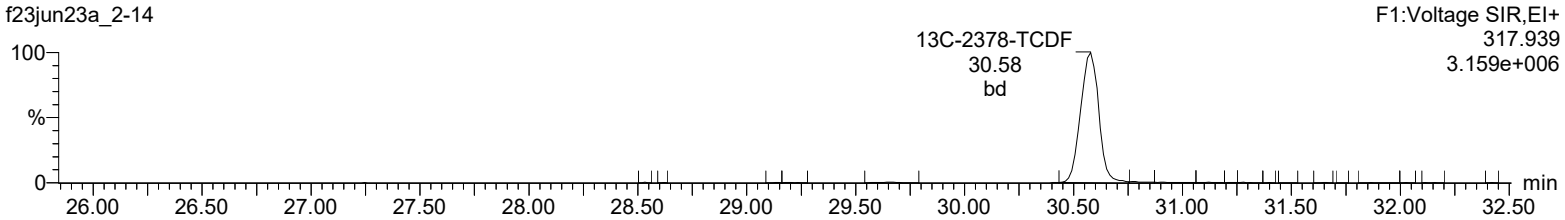
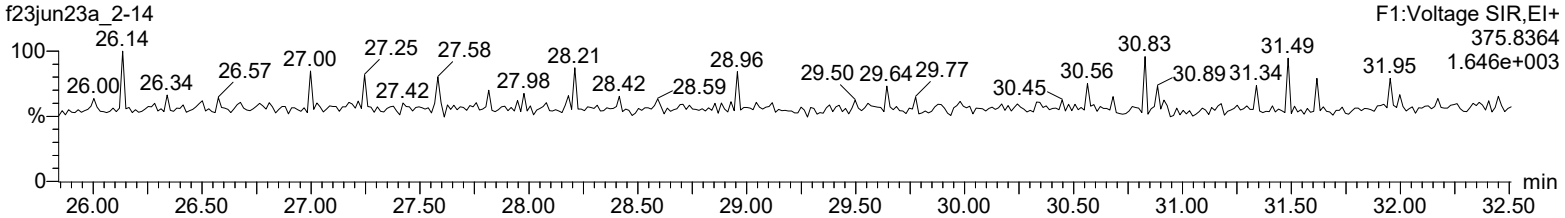
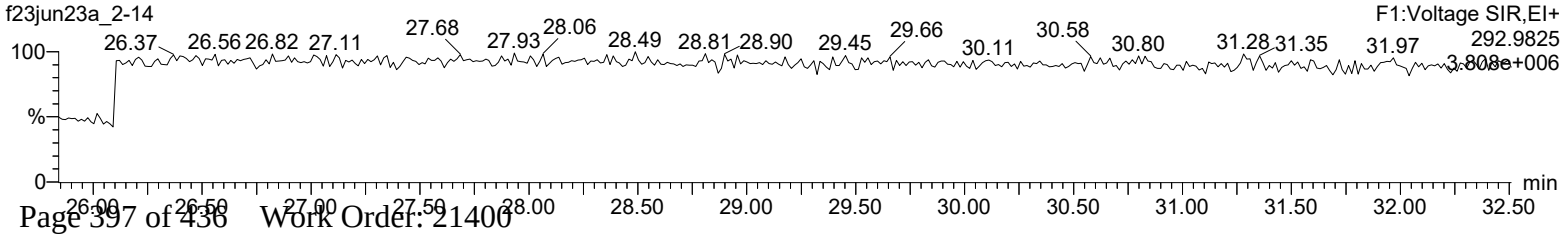


HxDPE



Lock Mass F1



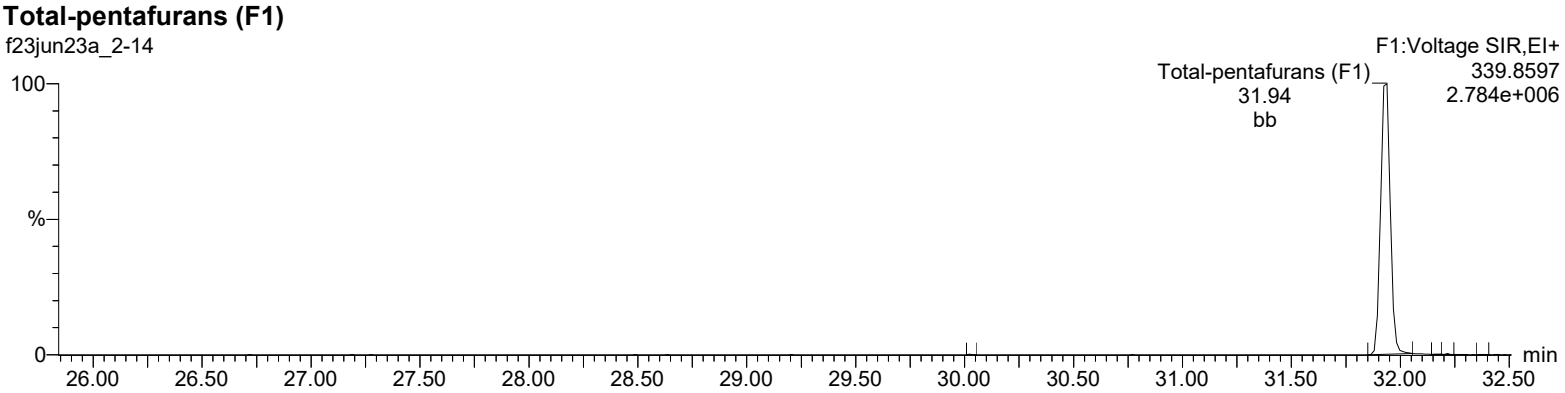
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

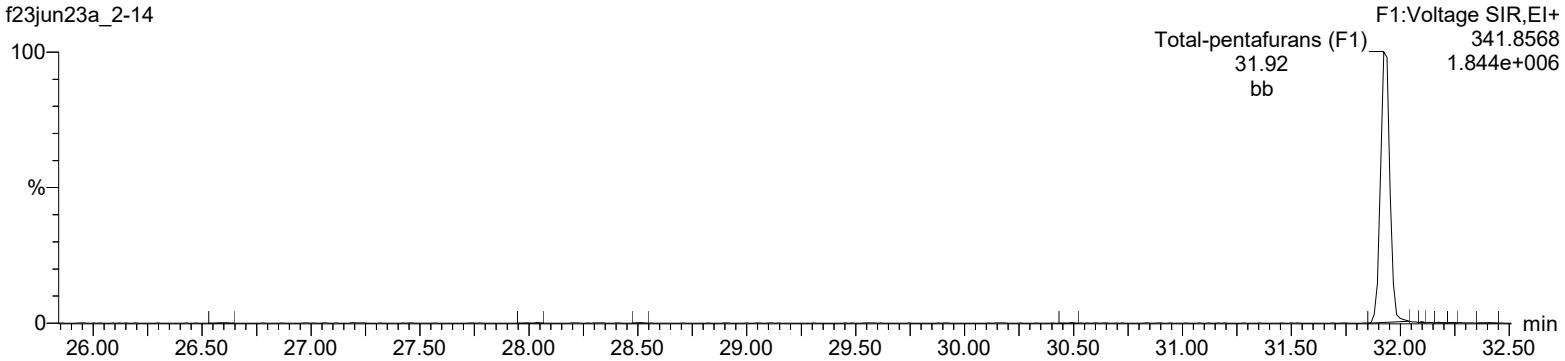
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

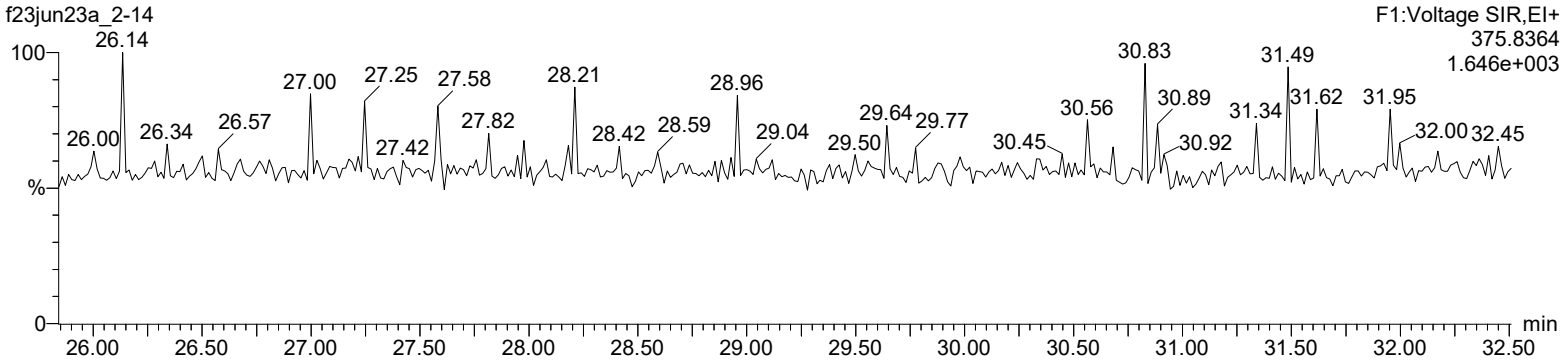
Total-pentafurans (F1)



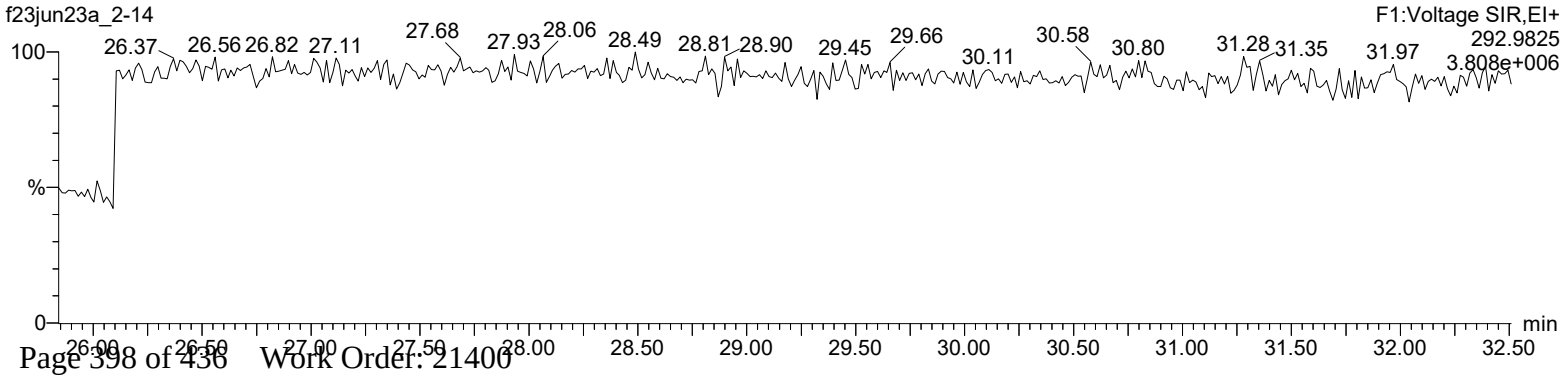
Total-pentafurans (F1)



HxDPE



Lock Mass F1



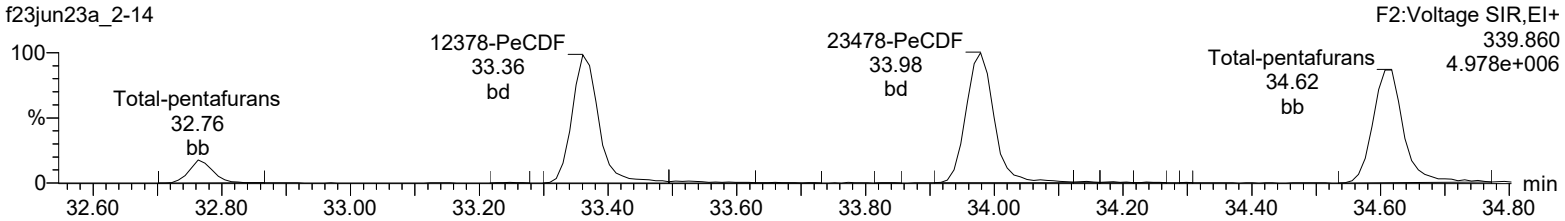
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

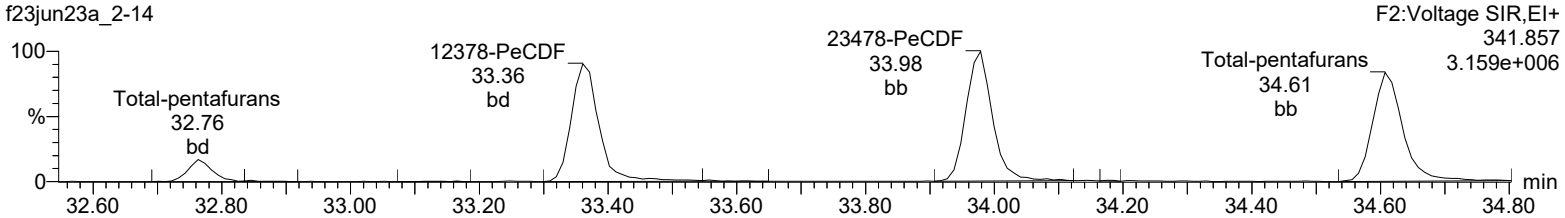
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

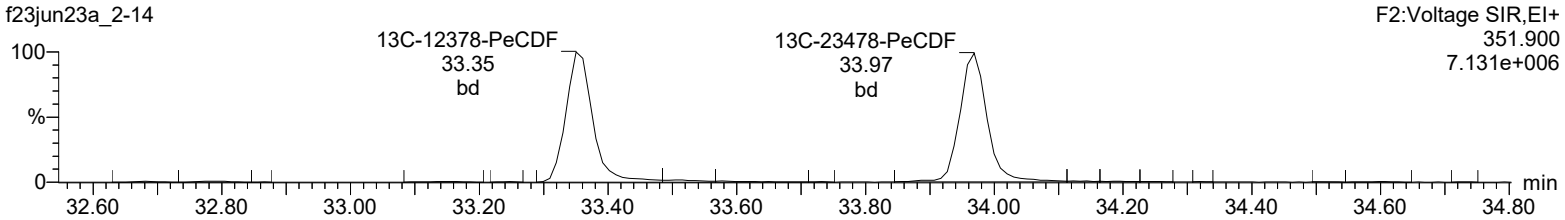
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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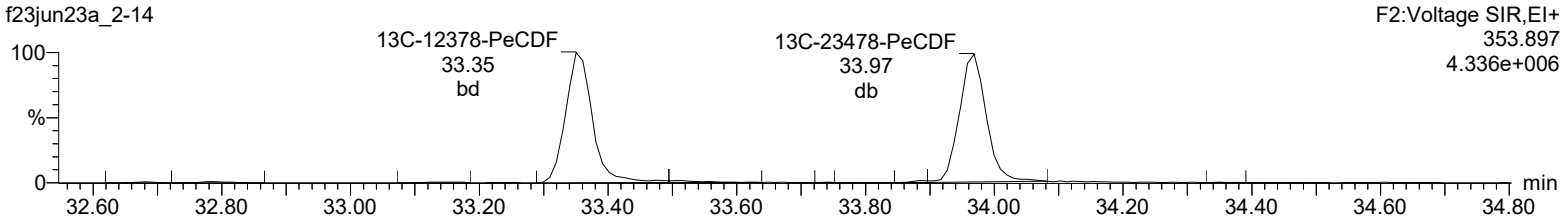
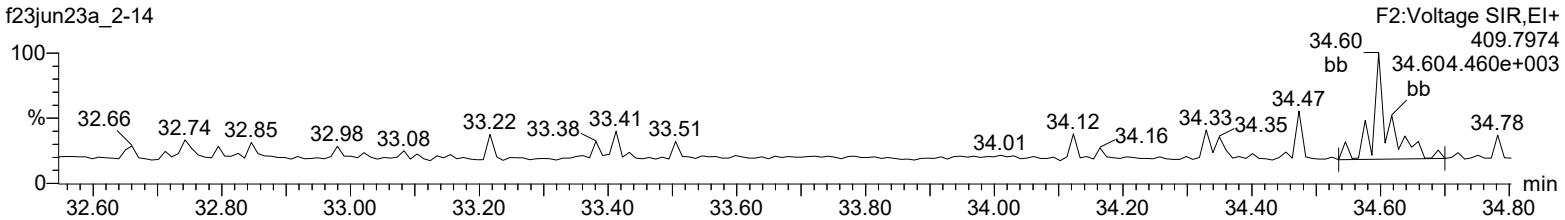
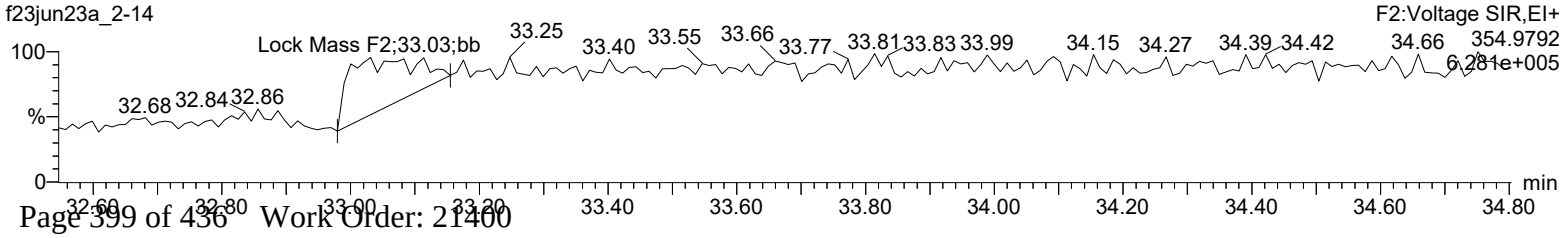


HpDPE



Lock Mass F2



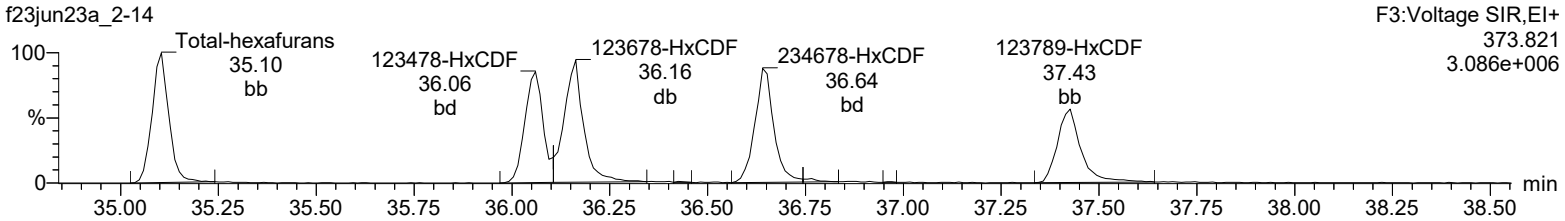
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

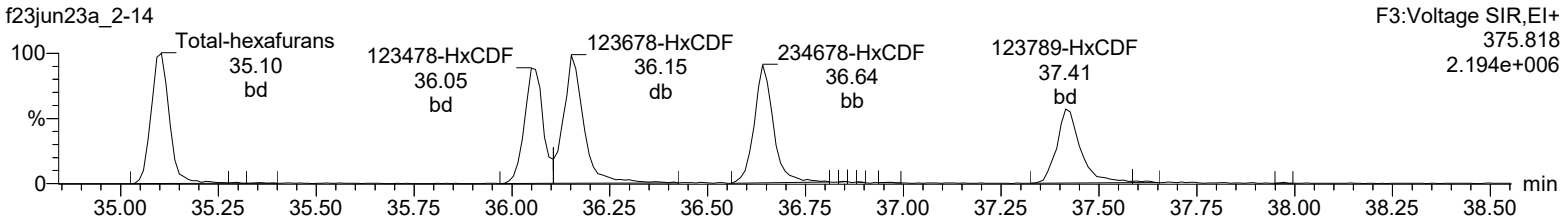
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

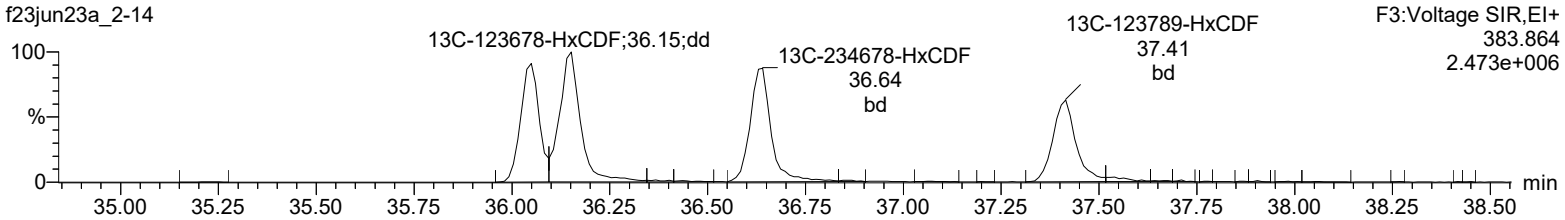
Total-hexafurans



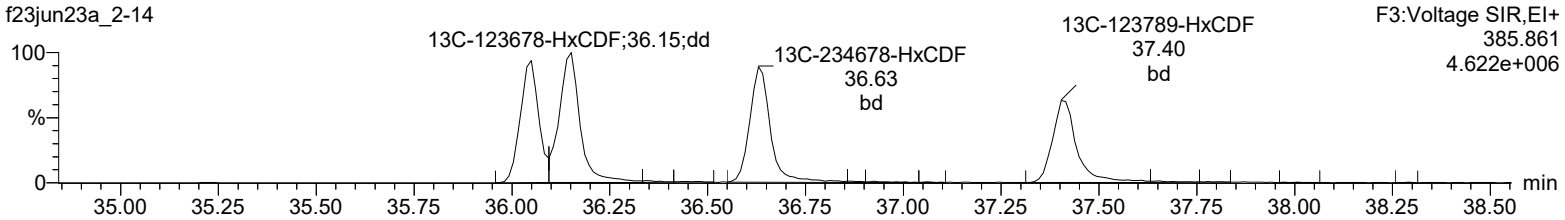
Total-hexafurans



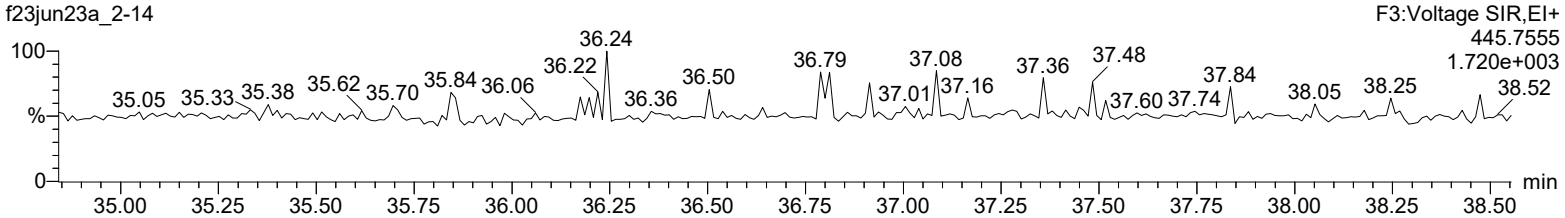
13C-123478-HxCDF



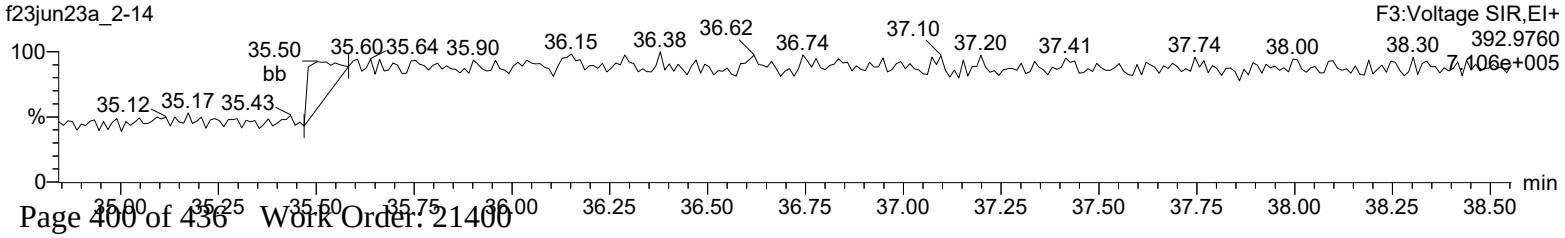
13C-123478-HxCDF



OcDPE



Lock Mass F3



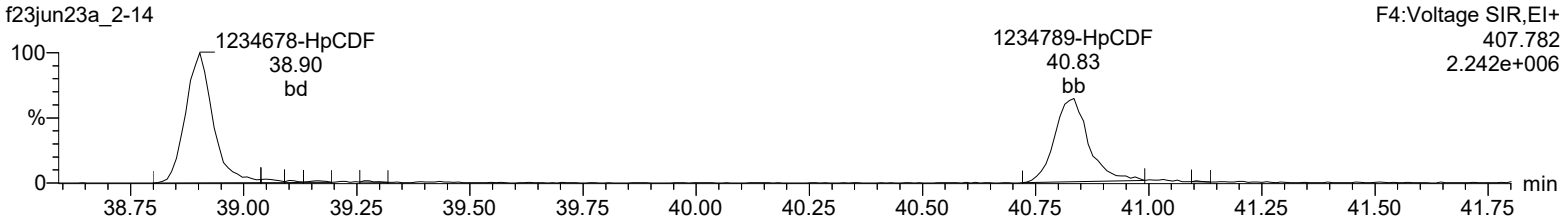
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

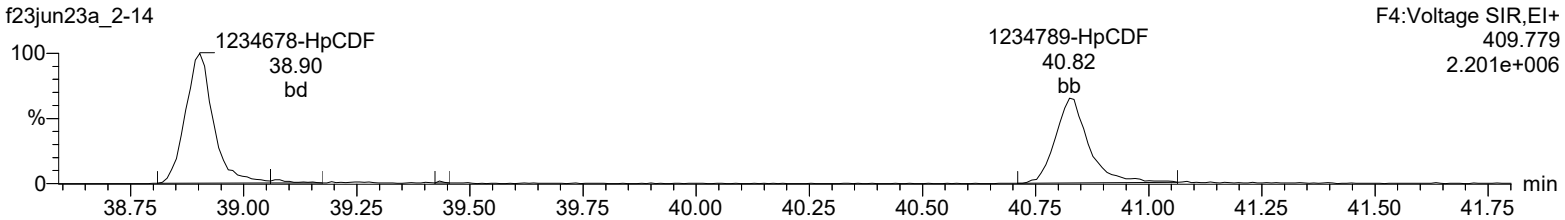
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

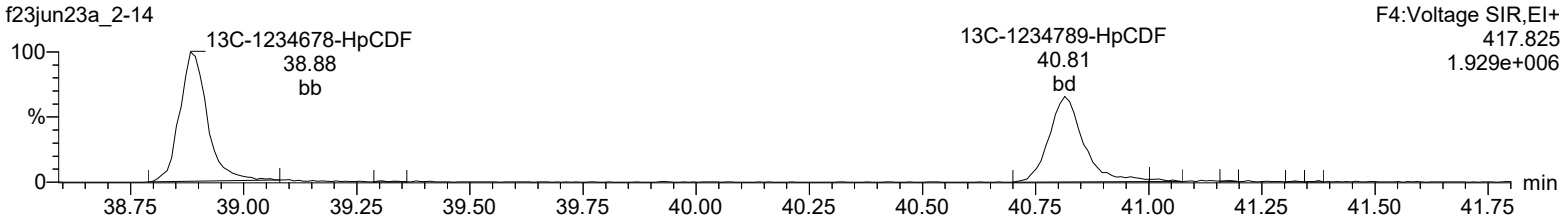
Total-heptafurans



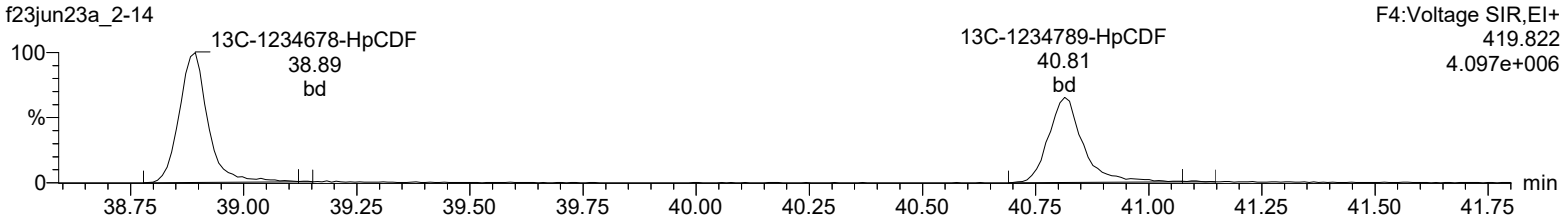
Total-heptafurans



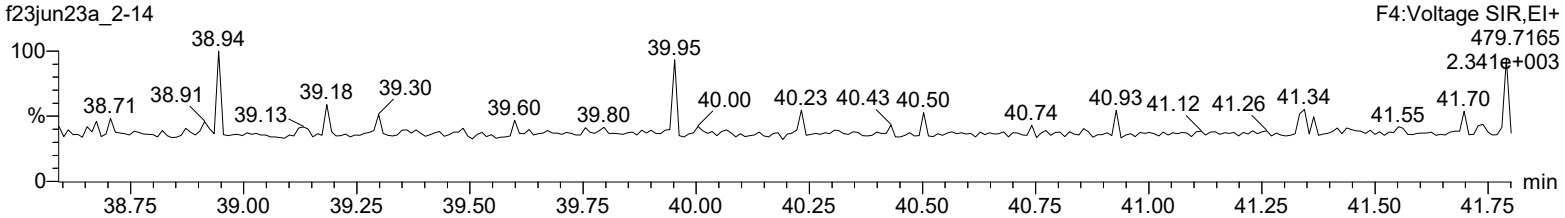
13C-1234678-HpCDF



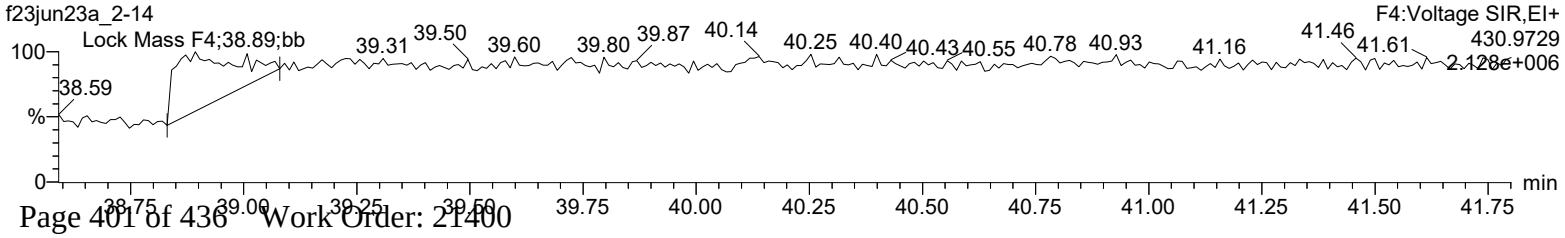
13C-1234678-HpCDF



NoDPE



Lock Mass F4



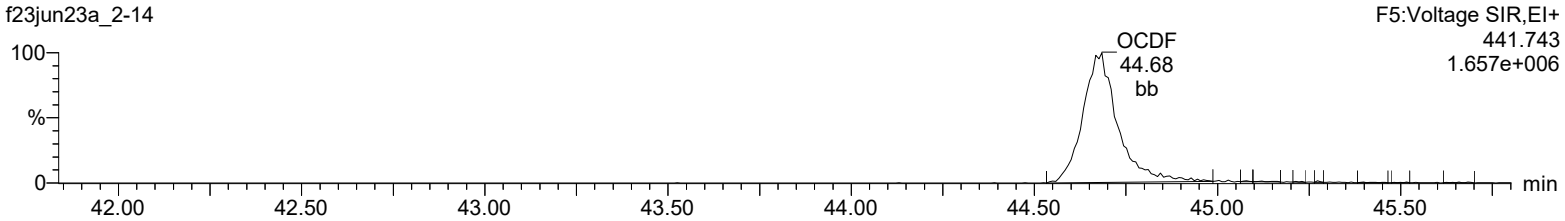
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

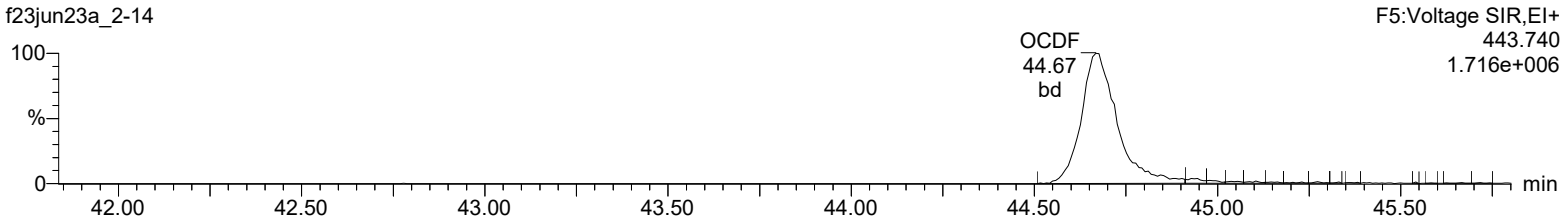
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

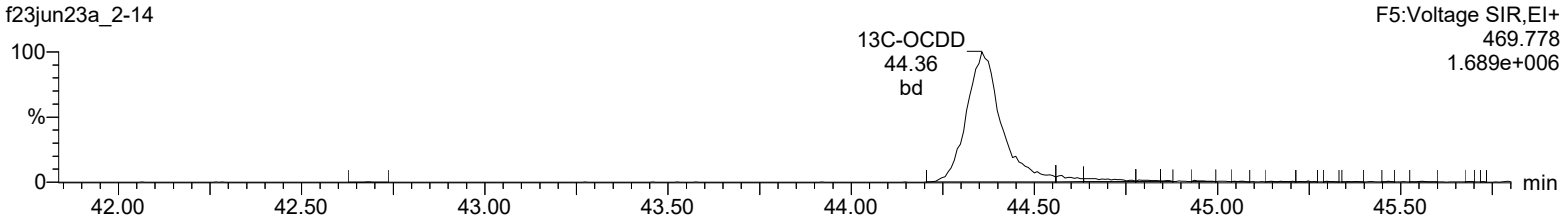
OCDF



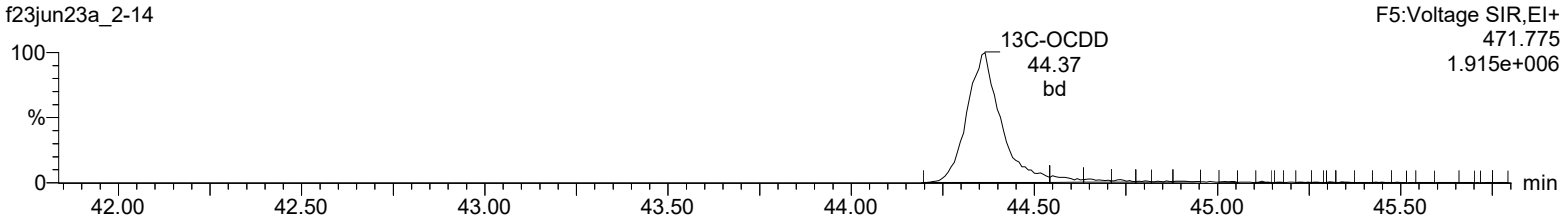
OCDF



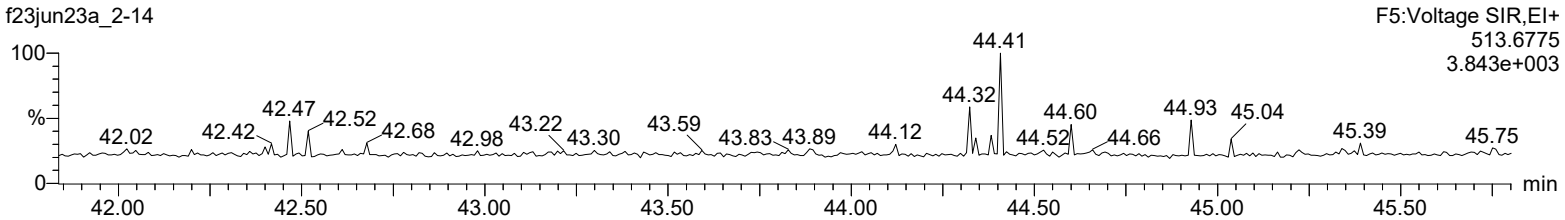
13C-OCDD



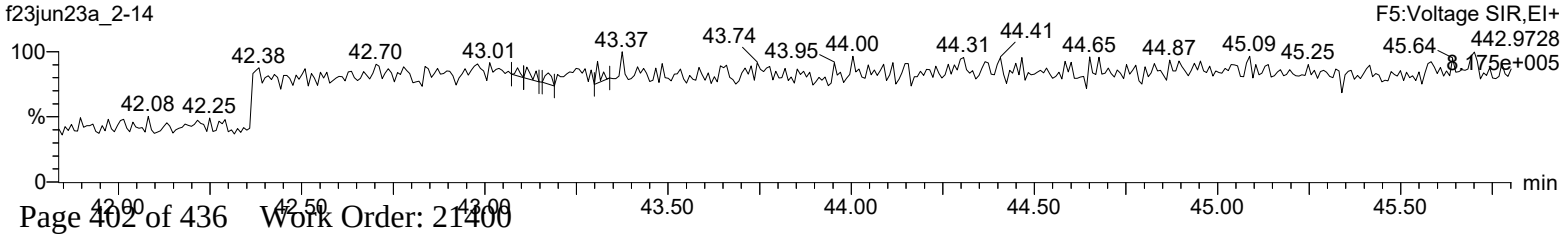
13C-OCDD



DeDPE



Lock Mass F5



RUN LOG

Instrument: HRP722_2

Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f23jun23a_4-1	24-JUN-2023 20:20:19	Mallory Walton	12034443-1 LCS		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-2	24-JUN-2023 21:07:48	Mallory Walton	12034444-1 LCSD		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-3	24-JUN-2023 21:56:41	Mallory Walton	12034442-1 MB		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-4	24-JUN-2023 22:45:36	Mallory Walton	21207001-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-5	24-JUN-2023 23:34:32	Mallory Walton	21207002-2 MS	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-6	25-JUN-2023 00:23:26	Mallory Walton	21207003-2 MSD	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-7	25-JUN-2023 01:12:19	Mallory Walton	21207004-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-8	25-JUN-2023 02:01:15	Mallory Walton	21207005-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-9	25-JUN-2023 02:50:09	Mallory Walton	21207019-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-10	25-JUN-2023 03:39:04	Mallory Walton	21207020-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-11	25-JUN-2023 04:27:58	Mallory Walton	21207021-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-12	25-JUN-2023 05:16:54	Mallory Walton	21207022-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
	Corrected Sample ID from 21207002-2 to 21207022-2						
f23jun23a_4-13	25-JUN-2023 06:05:52	Mallory Walton	21207023-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_4-14	25-JUN-2023 06:54:46	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX

RUN LOG

Instrument: HRP722_2

Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f23jun23a_5-1	25-JUN-2023 07:51:37	Mallory Walton	SB		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-2	25-JUN-2023 08:39:11	Mallory Walton	21207024-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-3	25-JUN-2023 09:28:04	Mallory Walton	21211001-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-4	25-JUN-2023 10:17:00	Mallory Walton	21211002-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-5	25-JUN-2023 11:05:52	Mallory Walton	21211003-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-6 RR c/o	25-JUN-2023 11:54:48	Mallory Walton	21211004-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-7	25-JUN-2023 12:43:49	Mallory Walton	21211005-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-8	25-JUN-2023 13:32:47	Mallory Walton	21211006-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-9	25-JUN-2023 14:21:42	Mallory Walton	21211007-2	52812	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-10 RR c/o	25-JUN-2023 15:10:38	Mallory Walton	21282001-2	52813	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-11	25-JUN-2023 15:59:38	Mallory Walton	21400006-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-12	25-JUN-2023 16:48:37	Mallory Walton	21177001-1	52697	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-13	25-JUN-2023 17:37:37	Mallory Walton	21297001-1	52697	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_5-14	25-JUN-2023 18:26:36	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX

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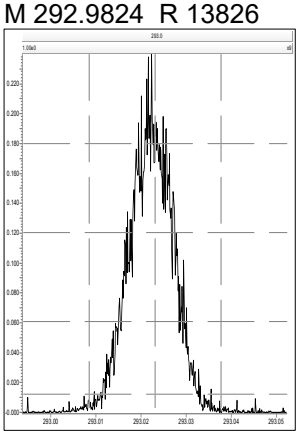
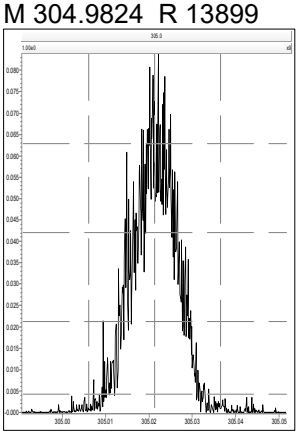
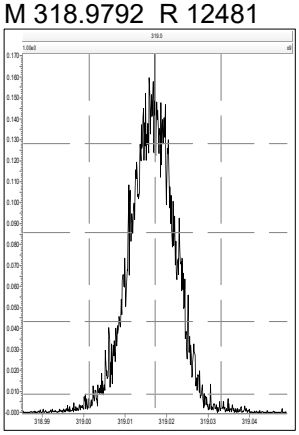
M 292.9824 R 13826



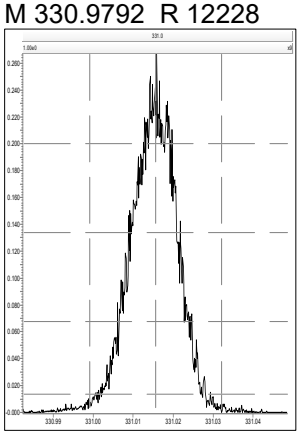
M 304.9824 R 13899



M 318.9792 R 12481



M 330.9792 R 12228



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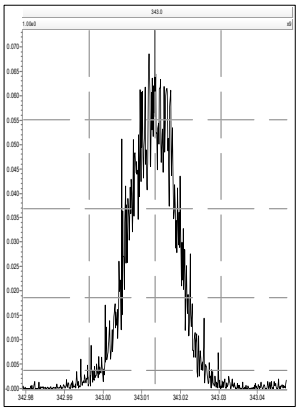

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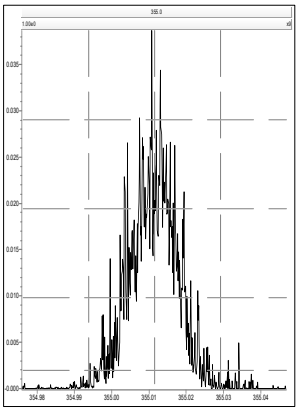

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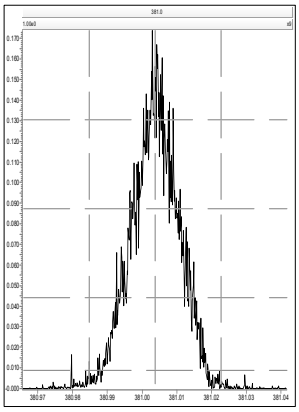

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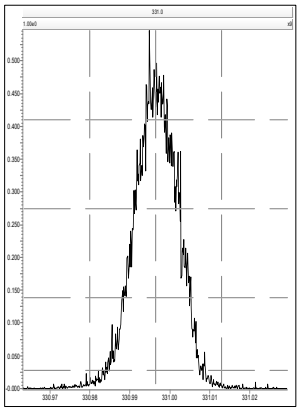

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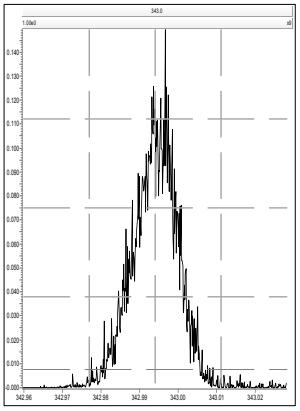

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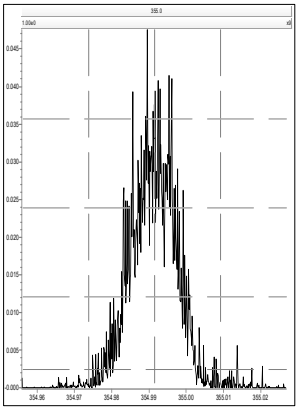

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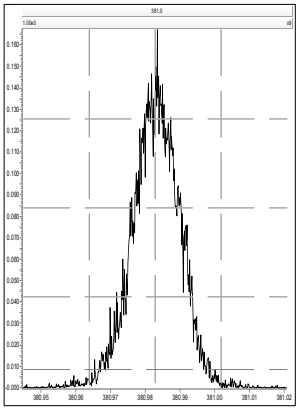
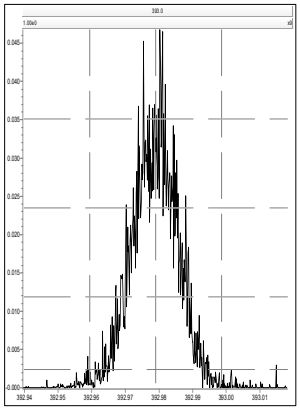


M 392.9760 R 13890



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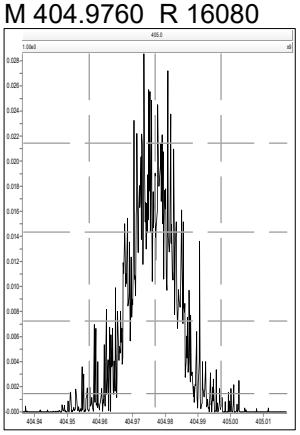

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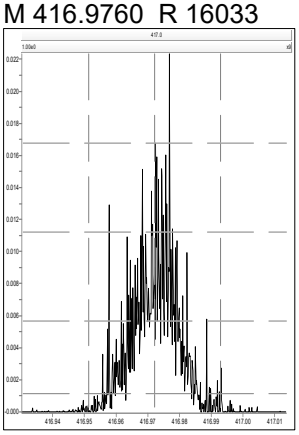

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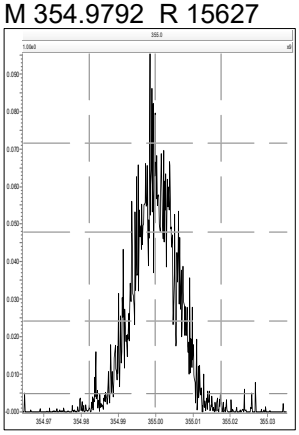
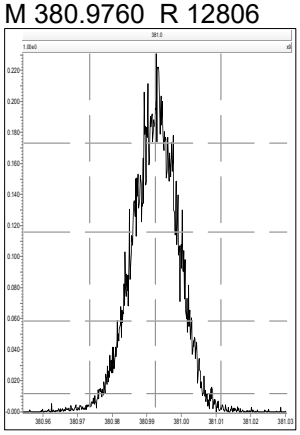


M 380.9760 R 12806



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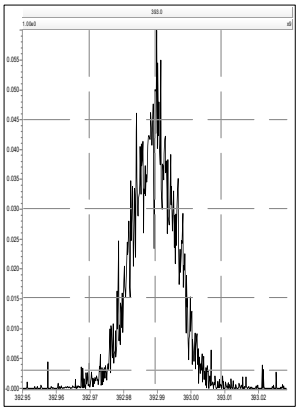
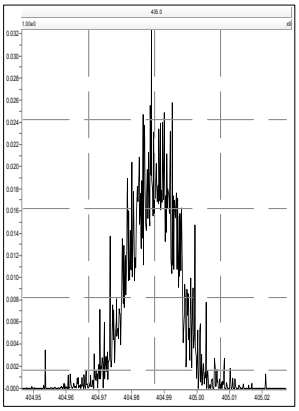
M 392.9760 R 13774



M 404.9760 R 14710



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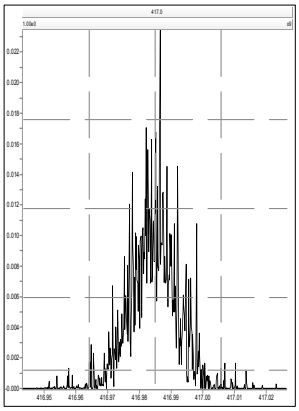
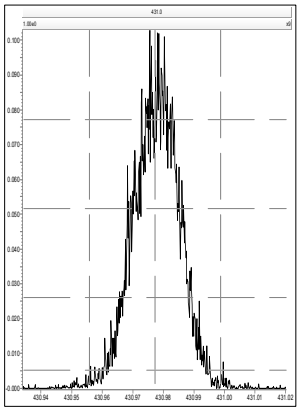


M 430.9728 R 12567



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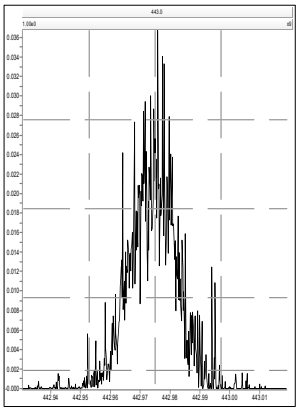
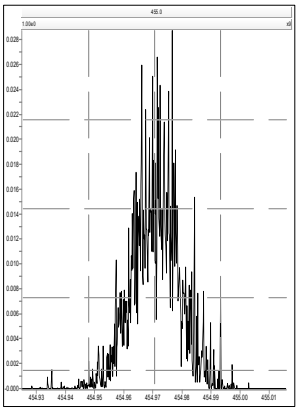


M 454.9728 R 13163



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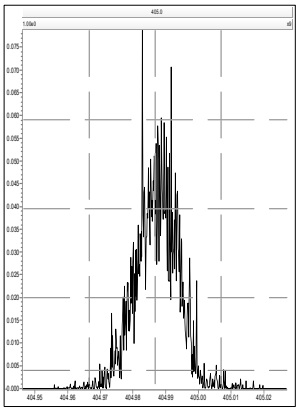
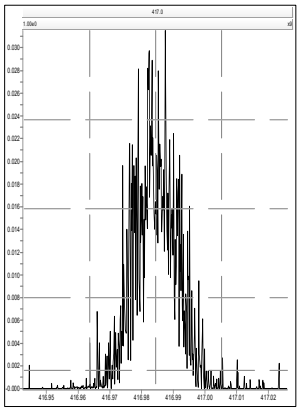
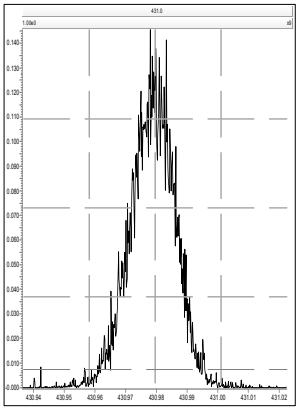


M 416.9760 R 17069



M 430.9728 R 13311



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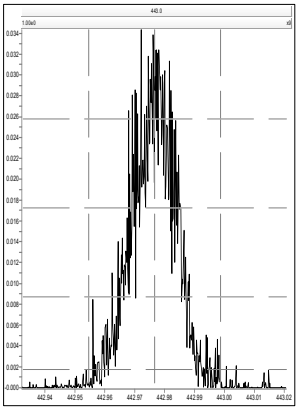

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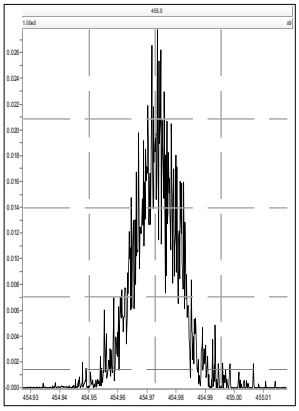

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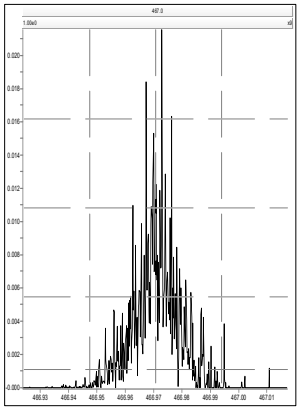
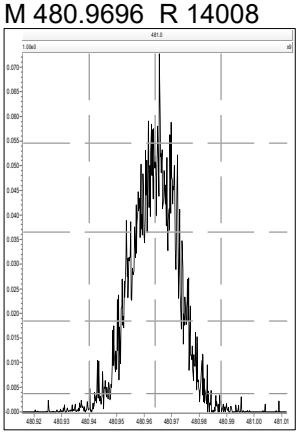
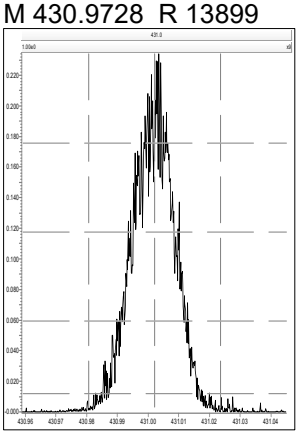


M 480.9696 R 14008



M 430.9728 R 13899



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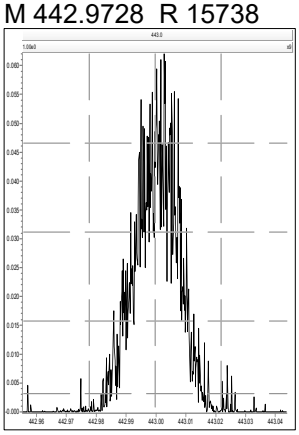
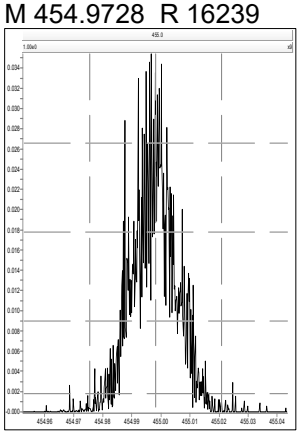


M 454.9728 R 16239



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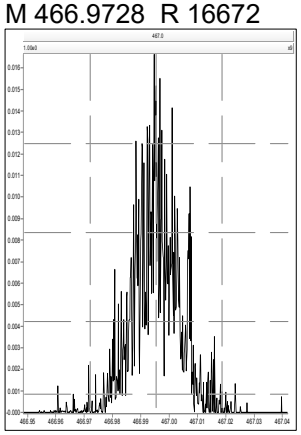

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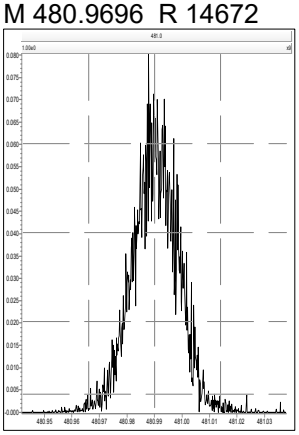

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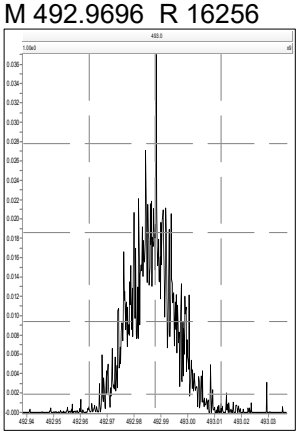
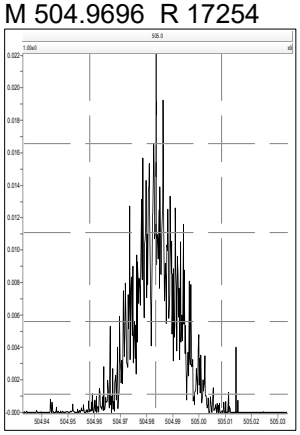


M 504.9696 R 17254



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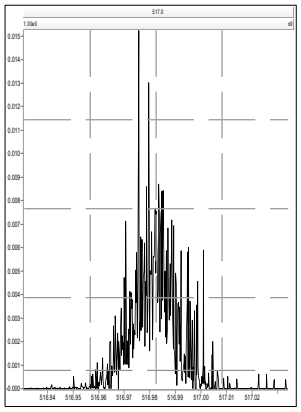

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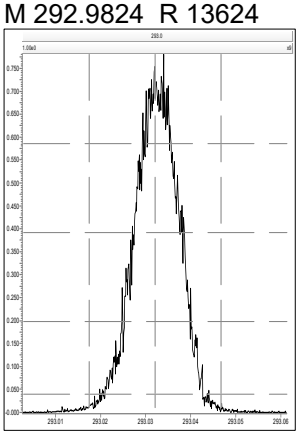

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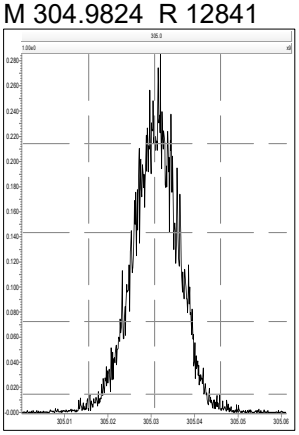
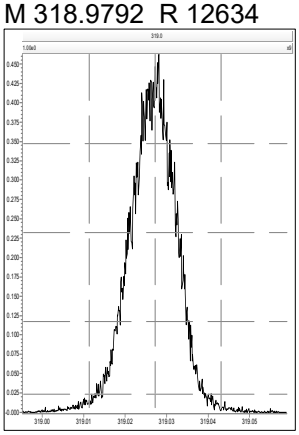


M 318.9792 R 12634



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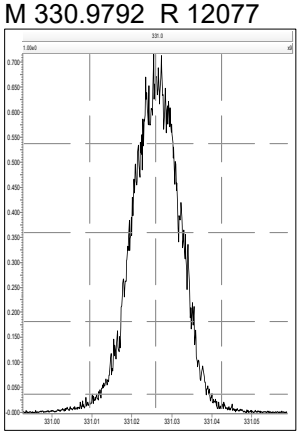

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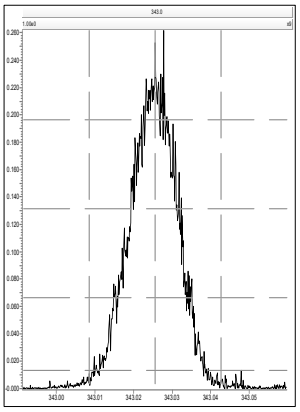

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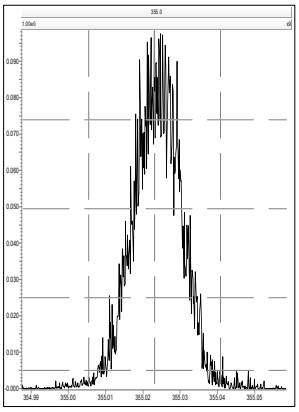

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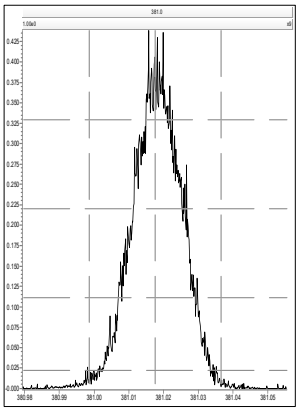

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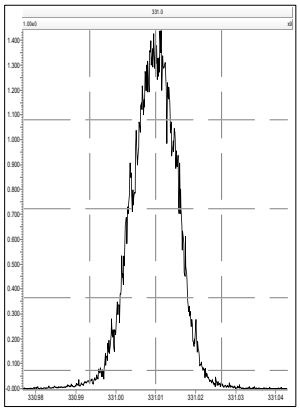

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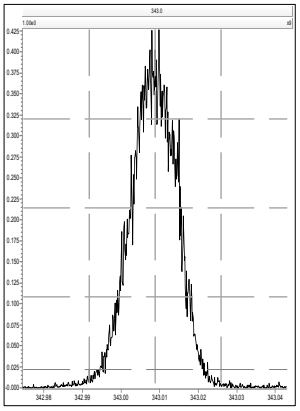
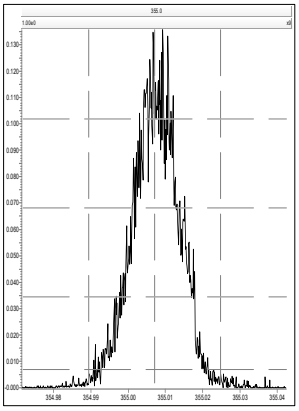


M 354.9792 R 12965



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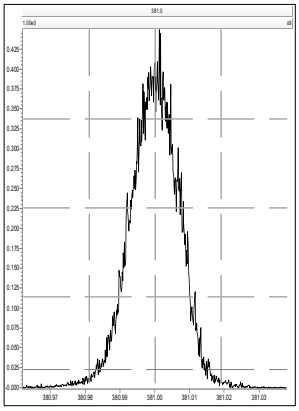

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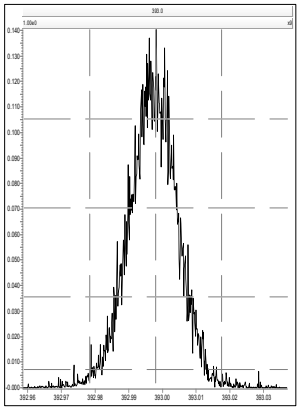

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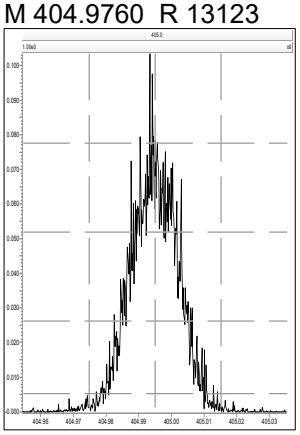

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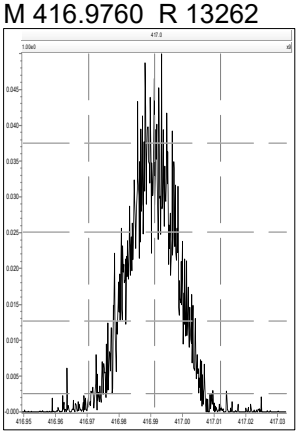

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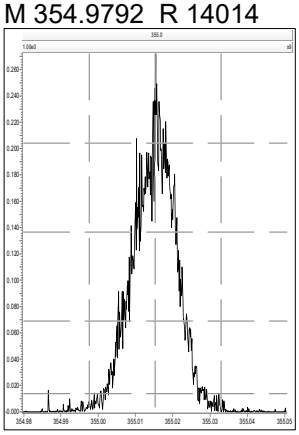

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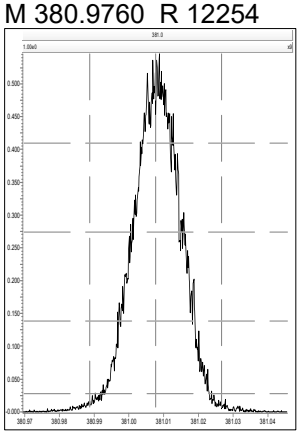

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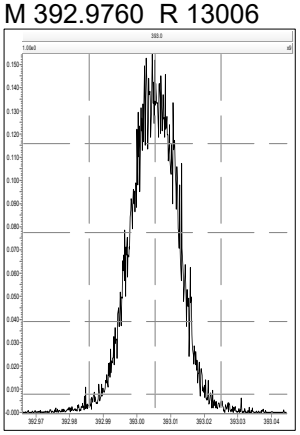
M 392.9760 R 13006



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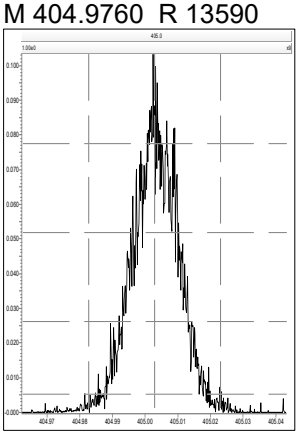

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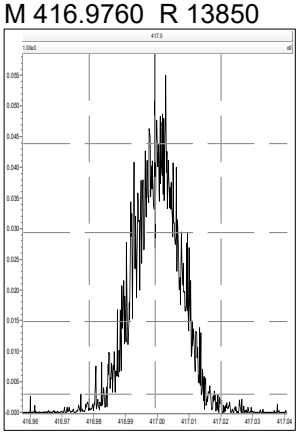

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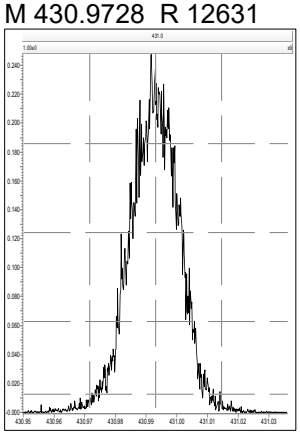

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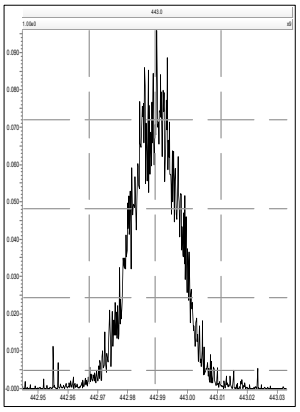
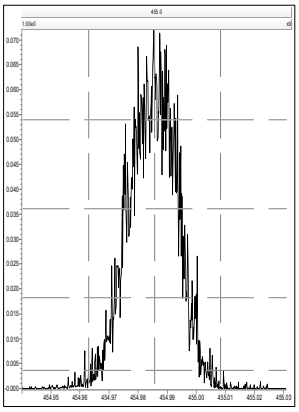


M 454.9728 R 13409



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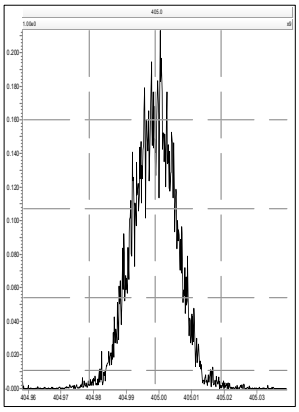

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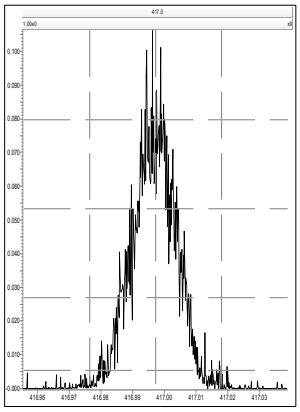

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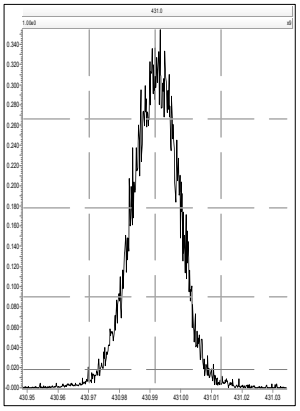
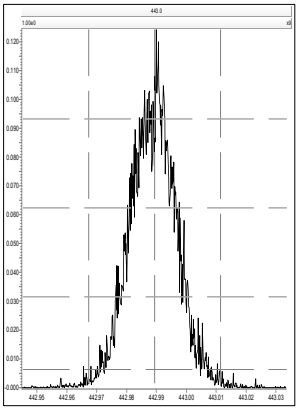


M 442.9728 R 13412



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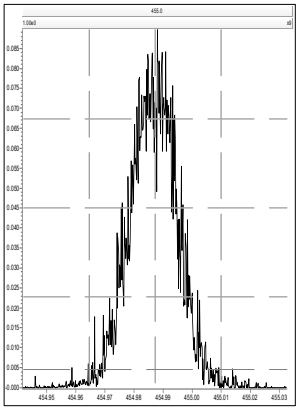
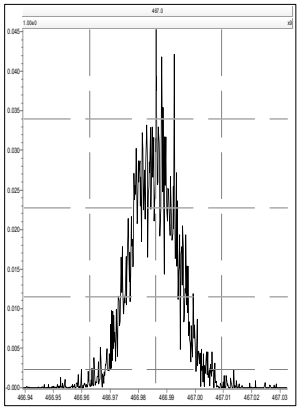


M 466.9728 R 14315



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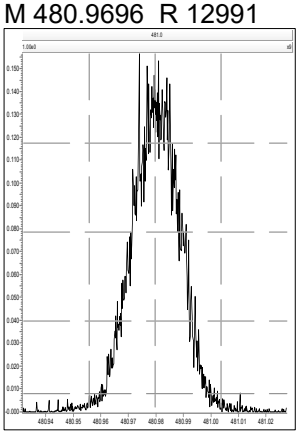

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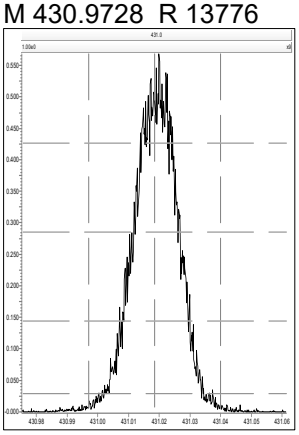

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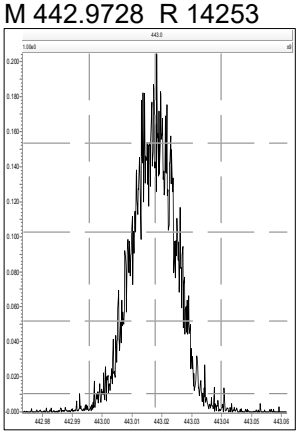

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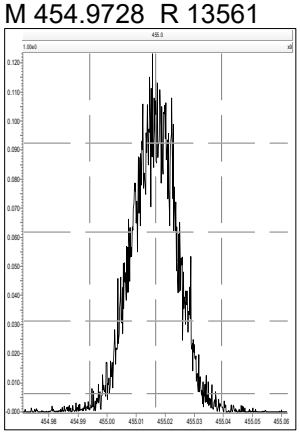

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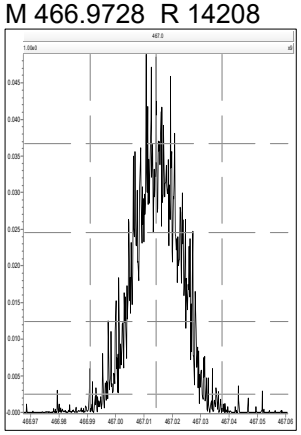

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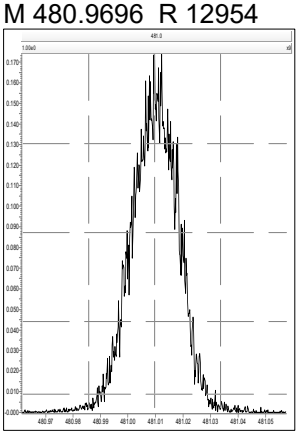
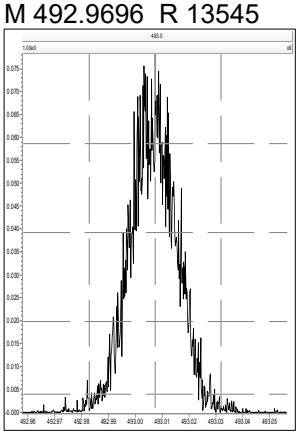


M 492.9696 R 13545



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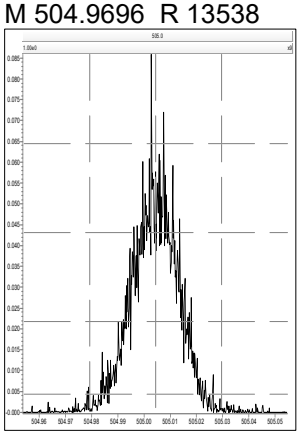

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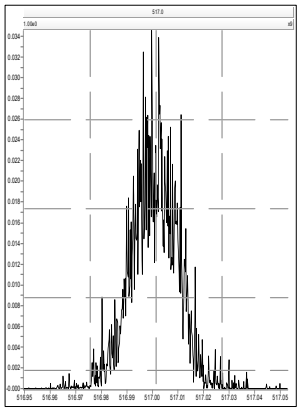
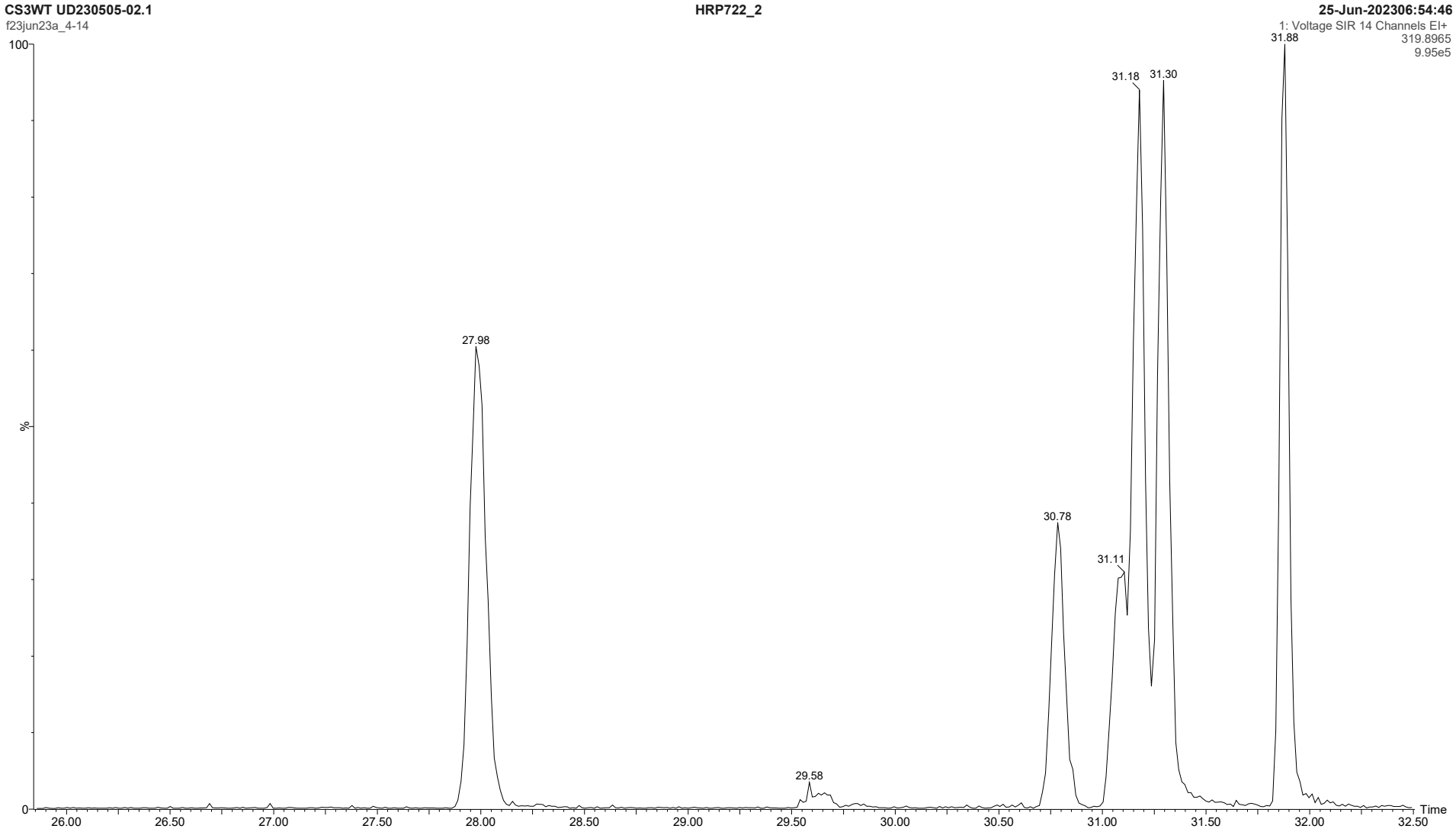


COLUMN CHECK (2378-TCDD 17%)



06/26/2023 06/26/2023

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_4-14.qld

Last Altered: Monday, June 26, 2023 11:09:51 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:10:50 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_f21jun23.mdb 21 Jun 2023 15:32:13
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

	Name	RT
1	First TCDF	26.27
2	Last TCDF	31.95
3	First PeCDF	31.92
4	Last PeCDF	34.61
5	First HxCDF	35.09
6	Last HxCDF	37.41
7	First HpCDF	38.90
8	Last HpCDF	40.82
9	OCDF	44.68
10	First TCDD	27.98
11	2378-TCDD	31.30
12	Last TCDD	31.88
13	First PeCDD	32.81
14	Last PeCDD	34.42
15	First HxCDD	35.53
16	Last HxCDD	37.10
17	First HpCDD	39.22
18	Last HpCDD	40.15
19	OCDD	44.37

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_4-14.qld

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Printed: Monday, June 26, 2023 11:10:33 Eastern Daylight Time

06/26/2023

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Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

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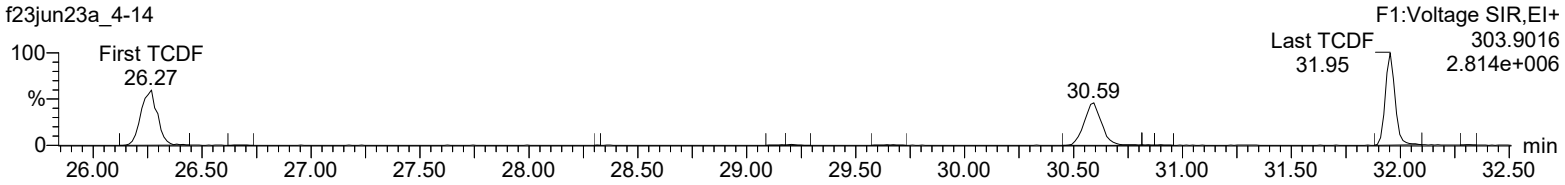
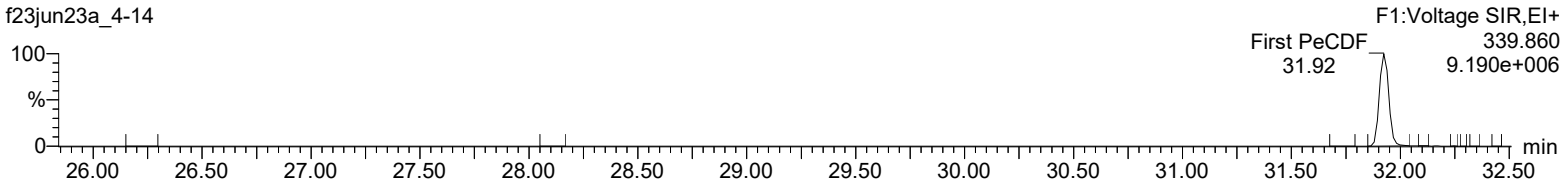
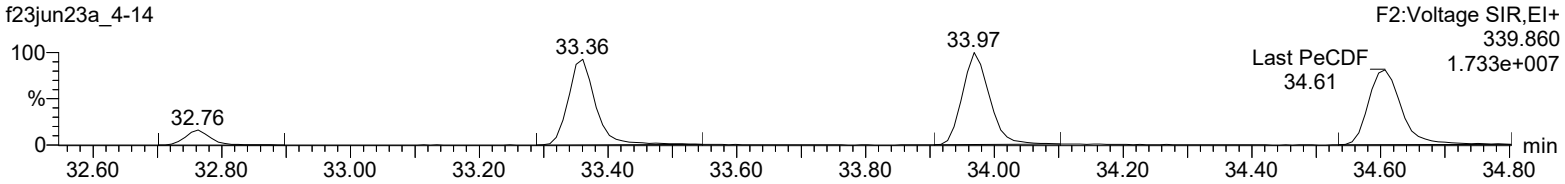


First PeCDF



Last PeCDF



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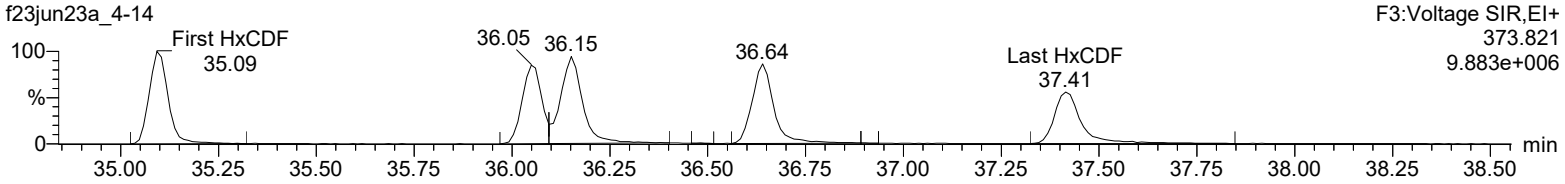

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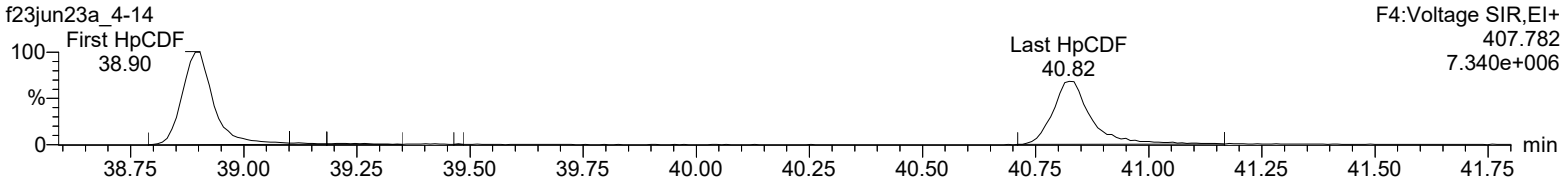
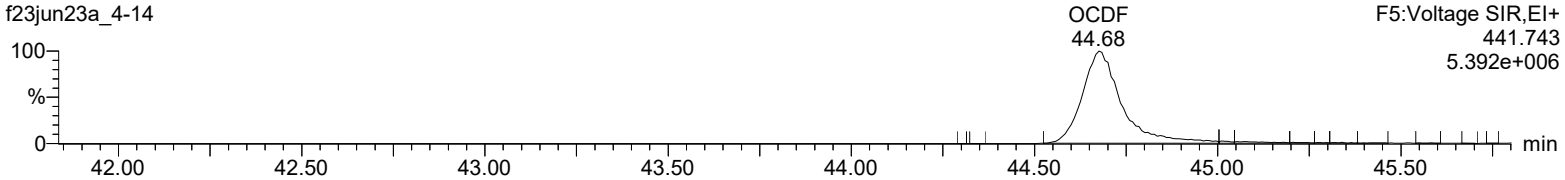


OCDF



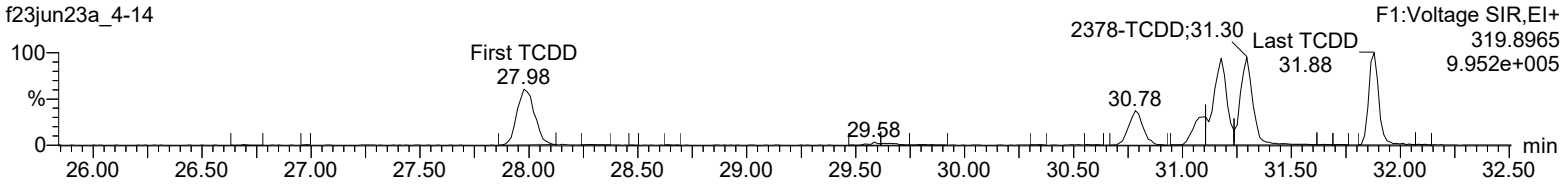
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_4-14.qld

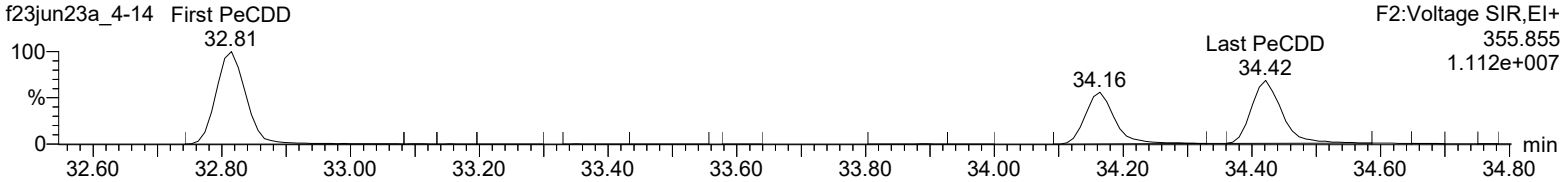
Last Altered: Monday, June 26, 2023 11:09:51 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:10:33 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

First TCDD



First PeCDD



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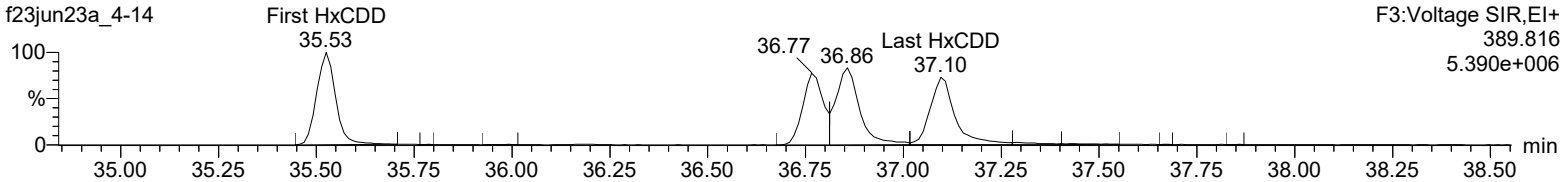
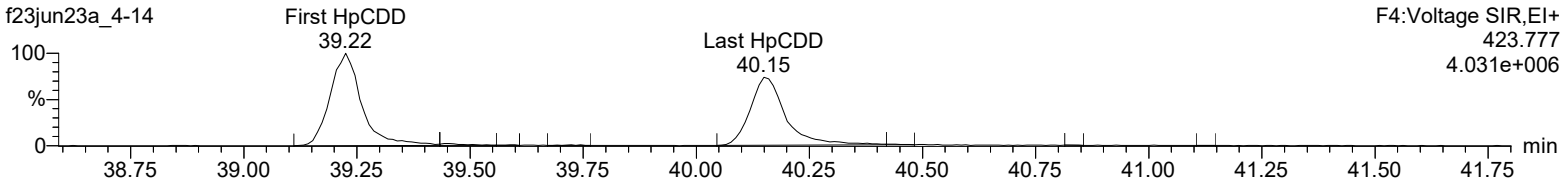


First HpCDD



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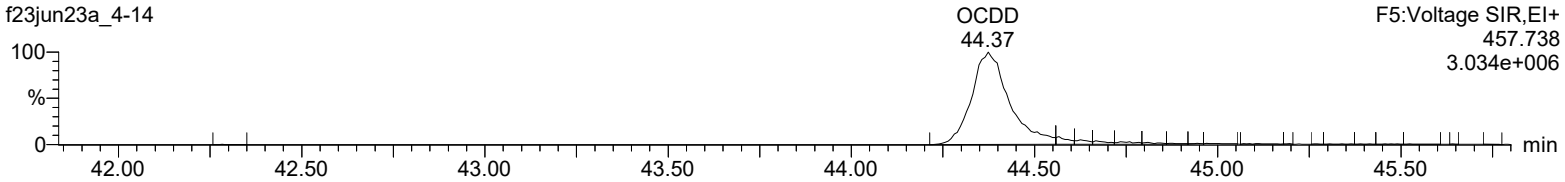


Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:09:04 Eastern Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	6.29e4	7.65e4	1.39e5	31.30	1.000	0.82	NO	10.931	0.0820	1.202	1.100	9.3	9.46e5	3392	278.7	1.16e6	3010	385.4	dd	db
2	12378-PeCDD	3.26e5	2.05e5	5.31e5	34.16	1.000	1.59	NO	48.074	0.264	1.120	1.164	-3.9	6.19e6	11005	562.8	3.84e6	11318	338.9	bb	bd
3	123478-HxCDD	2.50e5	1.96e5	4.46e5	36.77	1.000	1.28	NO	50.243	0.340	1.078	1.073	0.5	4.18e6	11543	362.1	3.25e6	8241	393.9	bd	bd
4	123678-HxCDD	3.11e5	2.43e5	5.54e5	36.86	1.000	1.28	NO	51.864	0.321	1.104	1.064	3.7	4.48e6	11543	388.6	3.50e6	8241	425.0	dd	dd
5	123789-HxCDD	2.87e5	2.34e5	5.21e5	37.10	1.007	1.23	NO	53.293	0.330	1.137	1.066	6.6	3.93e6	11543	340.3	3.03e6	8241	367.7	dd	dd
6	1234678-HpCDD	2.69e5	2.44e5	5.13e5	40.15	1.000	1.10	NO	50.753	0.507	1.246	1.228	1.5	2.96e6	11859	249.9	2.65e6	10205	259.4	bd	bd
7	OCDD	3.60e5	3.95e5	7.54e5	44.37	1.000	0.91	NO	100.153	0.804	1.109	1.107	0.2	3.03e6	7898	383.3	3.29e6	12181	270.3	bd	bd
8	2378-TCDF	1.20e5	1.43e5	2.63e5	30.59	1.001	0.84	NO	10.516	0.0842	1.422	1.352	5.2	1.30e6	5005	258.9	1.56e6	3606	433.8	bd	bd
9	12378-PeCDF	7.79e5	4.78e5	1.26e6	33.36	1.000	1.63	NO	53.361	0.198	1.359	1.274	6.7	1.60e7	18949	844.8	9.47e6	18923	500.5	bb	bb
10	23478-PeCDF	8.33e5	5.17e5	1.35e6	33.97	1.000	1.61	NO	52.583	0.195	1.466	1.394	5.2	1.72e7	18949	910.0	1.04e7	18923	550.5	bb	bd
11	123478-HxCDF	4.81e5	3.66e5	8.47e5	36.05	1.000	1.31	NO	48.138	0.357	1.365	1.418	-3.7	8.38e6	26556	315.5	6.45e6	15787	408.7	bd	bd
12	123678-HxCDF	6.07e5	4.60e5	1.07e6	36.15	1.000	1.32	NO	49.274	0.328	1.358	1.378	-1.5	9.30e6	26556	350.3	7.02e6	15787	444.5	db	dd
13	234678-HxCDF	5.48e5	4.16e5	9.64e5	36.64	1.000	1.32	NO	49.156	0.360	1.398	1.422	-1.7	8.51e6	26556	320.5	6.45e6	15787	408.7	bd	bb
14	123789-HxCDF	4.37e5	3.27e5	7.64e5	37.41	1.000	1.34	NO	50.576	0.538	1.317	1.302	1.2	5.49e6	26556	206.7	4.27e6	15787	270.3	bb	bd
15	1234678-HpCDF	5.87e5	5.67e5	1.15e6	38.90	1.001	1.03	NO	52.114	0.396	1.442	1.384	4.2	7.33e6	22529	325.2	7.33e6	20513	357.2	bd	bd
16	1234789-HpCDF	4.89e5	4.70e5	9.59e5	40.82	1.000	1.04	NO	54.844	0.573	1.496	1.364	9.7	4.99e6	22529	221.4	5.00e6	20513	243.7	bb	bd
17	OCDF	6.68e5	7.19e5	1.39e6	44.68	1.007	0.93	NO	116.393	0.676	2.039	1.752	16.4	5.38e6	11802	455.9	6.01e6	14922	403.0	bd	bd
18	13C-2378-TCDD	5.14e5	6.45e5	1.16e6	31.28	1.017	0.80	NO	102.152	0.145	1.163	1.139	2.2	7.87e6	4418	1781.1	9.74e6	3513	2772.6	bd	bd
19	13C-12378-PeCDD	5.78e5	3.70e5	9.48e5	34.15	1.111	1.56	NO	116.940	0.264	0.951	0.813	16.9	1.11e7	4544	2432.0	6.79e6	5732	1184.4	bb	bd
20	13C-123478-HxCDD	4.65e5	3.63e5	8.28e5	36.75	0.991	1.28	NO	98.828	0.478	0.838	0.847	-1.2	7.61e6	10483	726.2	6.02e6	9122	660.0	bd	bd
21	13C-123678-HxCDD	5.68e5	4.36e5	1.00e6	36.85	0.994	1.30	NO	98.923	0.395	1.016	1.027	-1.1	8.21e6	10483	782.8	6.43e6	9122	704.8	dd	dd
22	13C-1234678-HpCDD	4.33e5	3.90e5	8.23e5	40.14	1.082	1.11	NO	103.981	0.554	0.832	0.800	4.0	4.67e6	9483	492.0	4.15e6	11965	346.7	bd	bd
23	13C-OCDD	6.41e5	7.19e5	1.36e6	44.36	1.196	0.89	NO	210.975	0.655	0.688	0.653	5.5	5.32e6	10360	513.2	5.70e6	10313	552.3	bd	bd
24	13C-2378-TCDF	8.22e5	1.03e6	1.85e6	30.56	0.994	0.80	NO	107.131	0.101	1.858	1.734	7.1	8.40e6	4380	1918.2	1.03e7	4001	2564.3	bd	bd
25	13C-12378-PeCDF	1.15e6	7.01e5	1.85e6	33.35	1.084	1.64	NO	107.996	0.438	1.856	1.719	8.0	2.33e7	21044	1107.7	1.38e7	15070	917.1	bd	bd
26	13C-23478-PeCDF	1.18e6	6.66e5	1.84e6	33.96	1.104	1.77	NO	114.173	0.465	1.849	1.619	14.2	2.22e7	21044	1056.9	1.35e7	15070	895.8	bd	bb
27	13C-123478-HxCDF	4.46e5	7.94e5	1.24e6	36.04	0.972	0.56	NO	97.182	0.448	1.255	1.291	-2.8	7.53e6	12385	607.6	1.41e7	15591	906.6	bd	bd
28	13C-123678-HxCDF	5.47e5	1.02e6	1.57e6	36.14	0.975	0.53	NO	99.426	0.362	1.589	1.598	-0.6	8.16e6	12385	658.5	1.52e7	15591	976.5	db	db
29	13C-234678-HxCDF	4.82e5	8.97e5	1.38e6	36.63	0.988	0.54	NO	104.273	0.432	1.395	1.338	4.3	7.23e6	12385	583.5	1.37e7	15591	879.5	bd	bb
30	13C-123789-HxCDF	4.02e5	7.58e5	1.16e6	37.40	1.009	0.53	NO	98.634	0.486	1.174	1.190	-1.4	5.24e6	12385	422.9	9.80e6	15591	628.8	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:09:04 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	5.02e5	1.10e6	1.60e6	38.88	1.048	0.46	NO	105.342	0.519	1.619	1.537	5.3	6.16e6	19544	315.1	1.36e7	19052	713.6	bd	bb
32	13C-1234789-HpCDF	4.07e5	8.75e5	1.28e6	40.81	1.101	0.46	NO	108.225	0.666	1.297	1.198	8.2	4.37e6	19544	223.4	9.08e6	19052	476.5	bd	bb
33	13C-1234-TCDD	4.44e5	5.53e5	9.97e5	30.75	0.000	0.80	NO	100.000	0.166	1.000	1.000	0.0	5.33e6	4418	1207.0	6.57e6	3513	1870.2	bb	bd
34	13C-123789-HxCDD	5.74e5	4.14e5	9.89e5	37.08	0.000	1.39	NO	100.000	0.405	1.000	1.000	-0.0	7.02e6	10483	670.0	5.62e6	9122	616.6	dd	db
35	37Cl-2378-TCDD	1.19e5		1.19e5	31.30	1.018			10.633	0.0486	1.195	1.124	6.3	1.78e6	2619	680.5				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

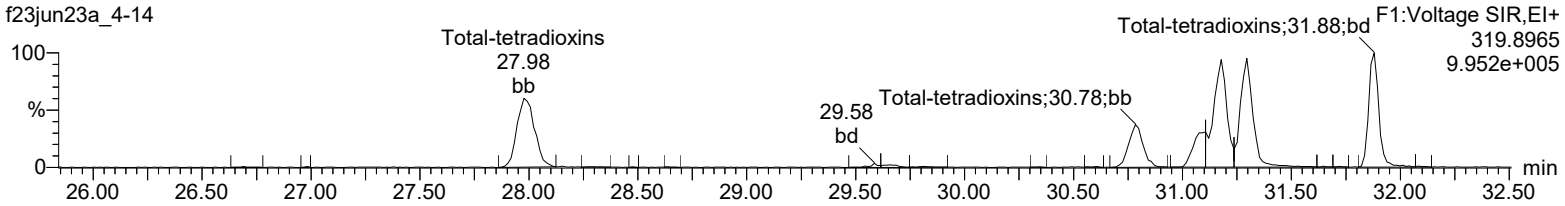
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

06/26/2023

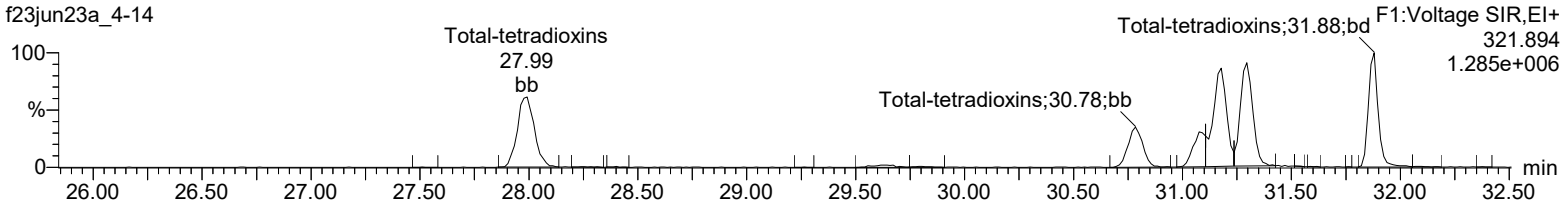
Method: C:\MassLynx\Default.PRO\MethDB\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

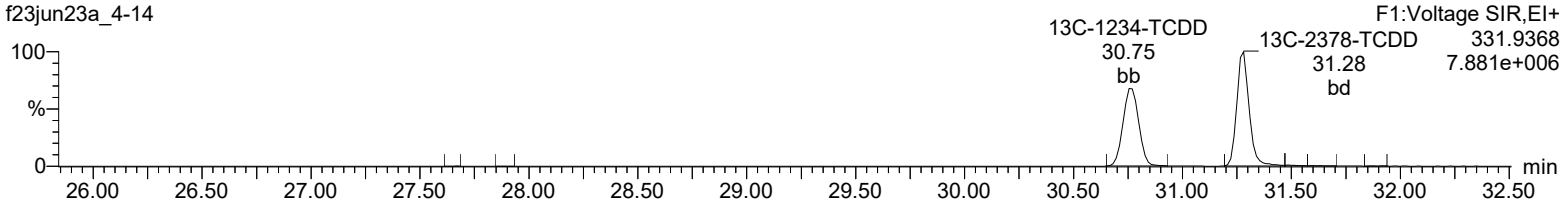
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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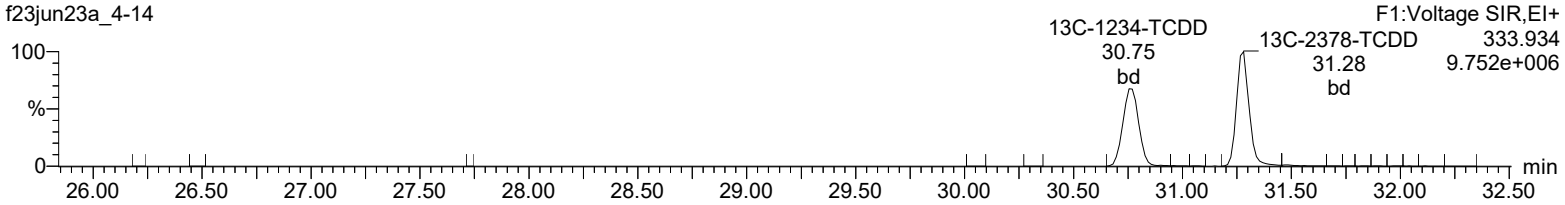

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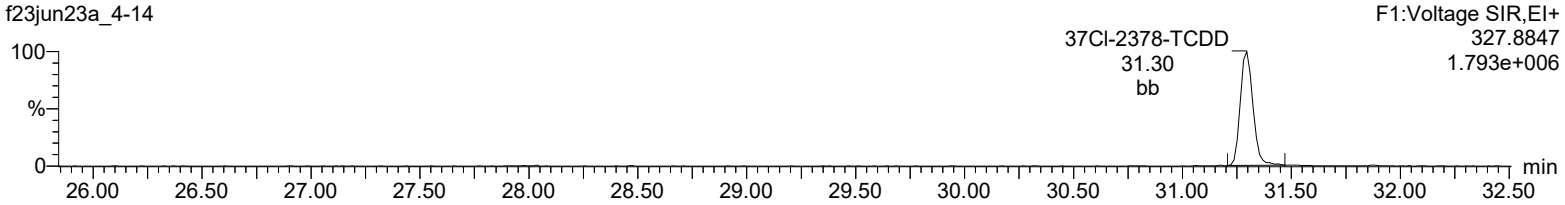
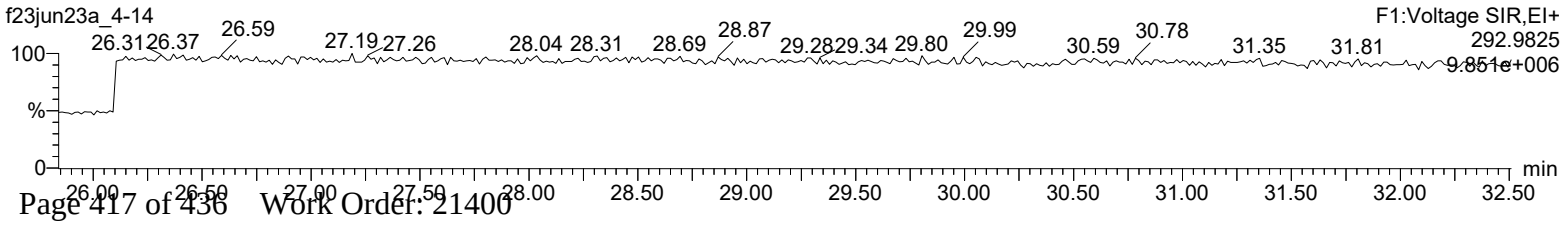


Lock Mass F1



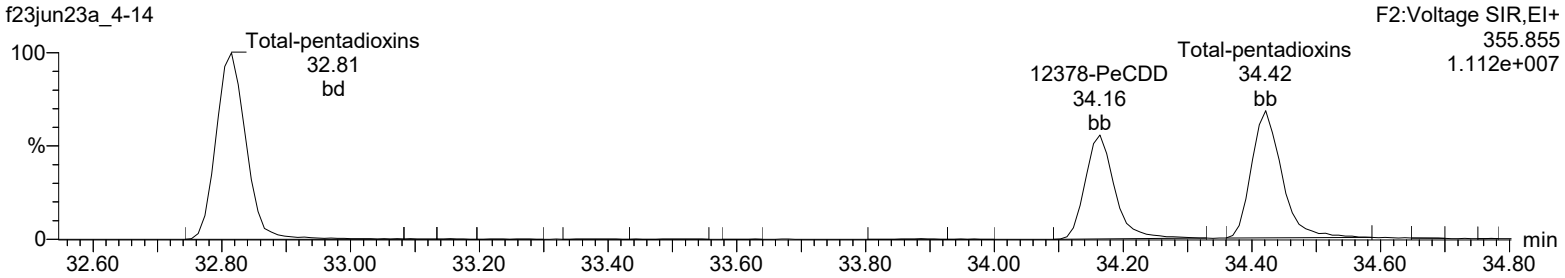
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

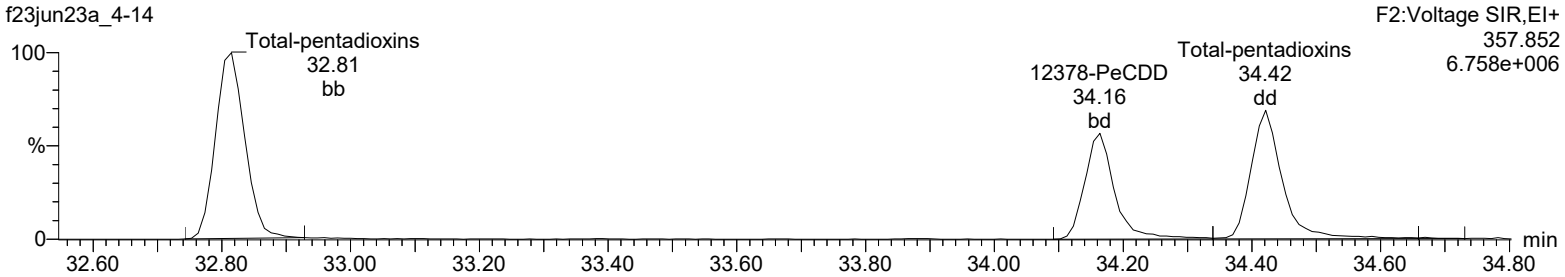
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

Total-pentadioxins



Total-pentadioxins



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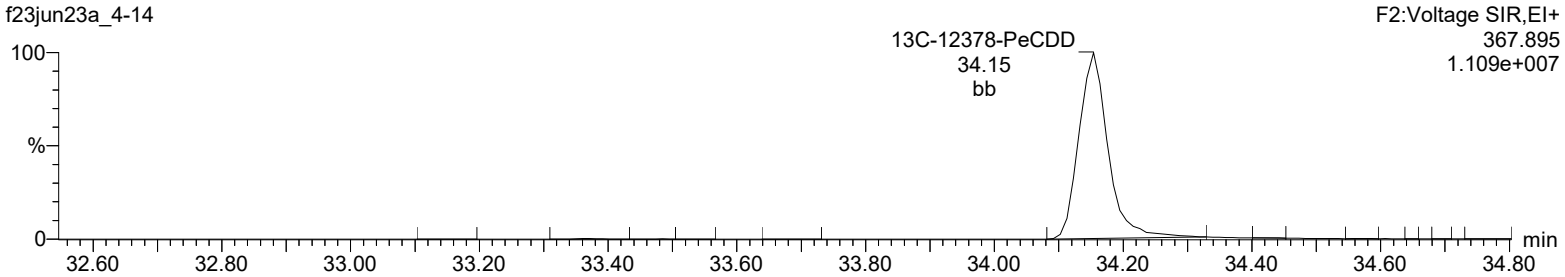

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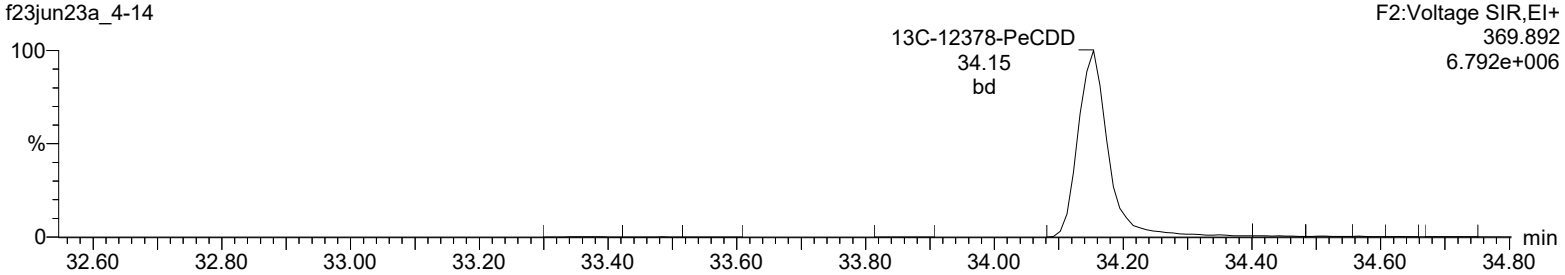

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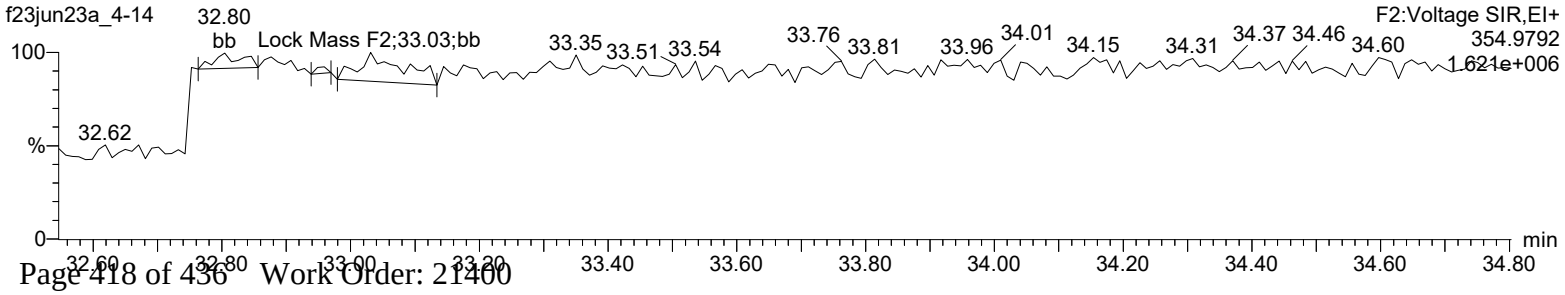


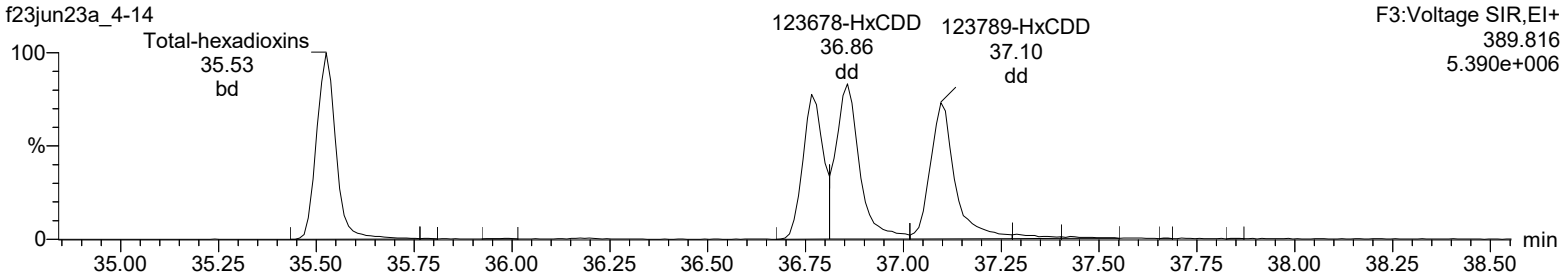
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

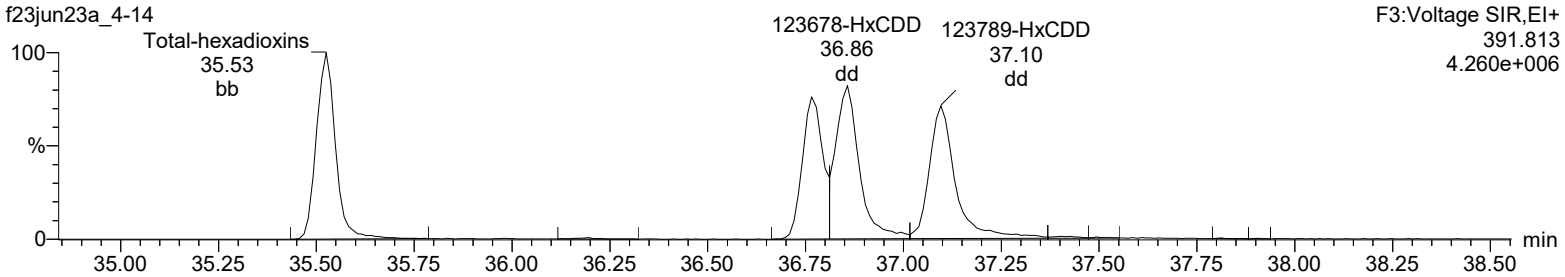
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

Total-hexadioxins



Total-hexadioxins



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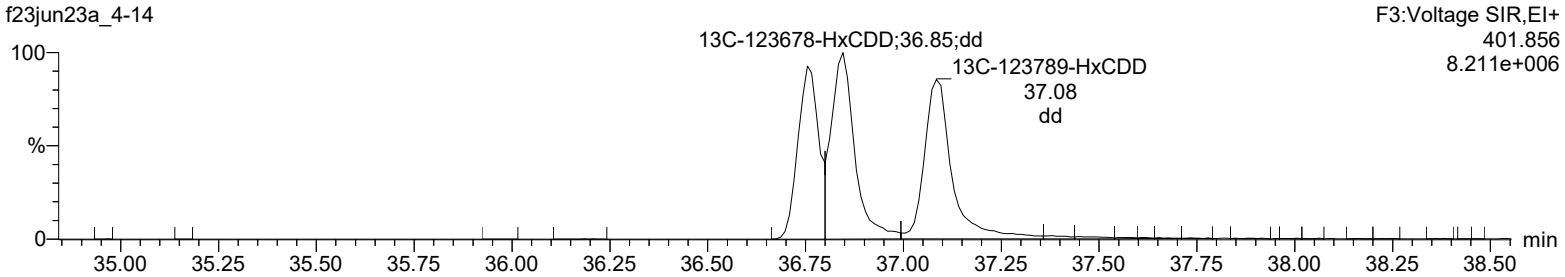

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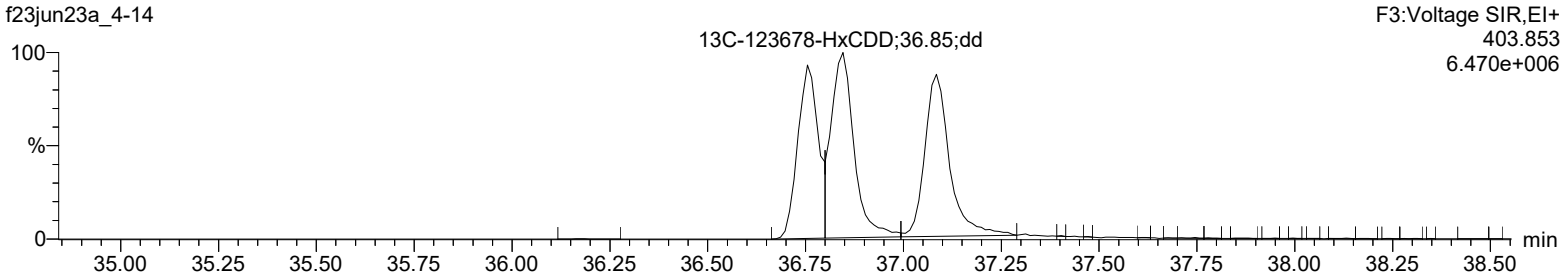
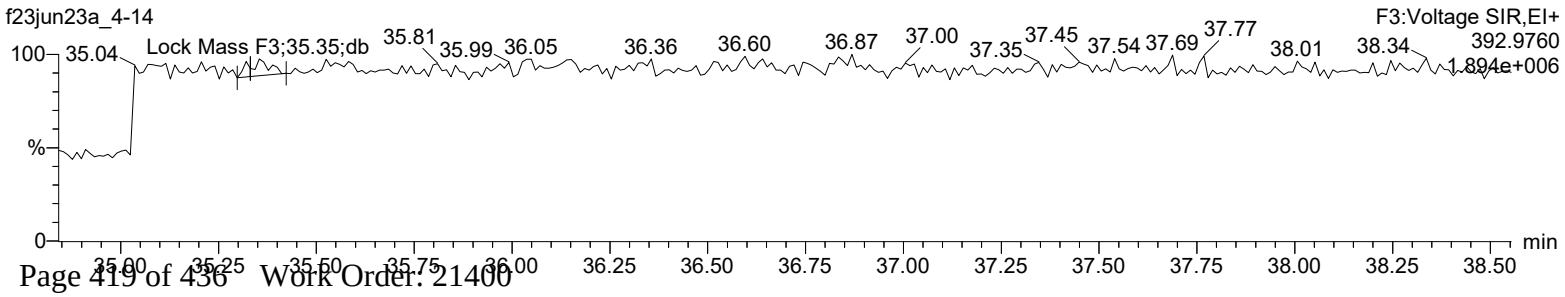


Lock Mass F3



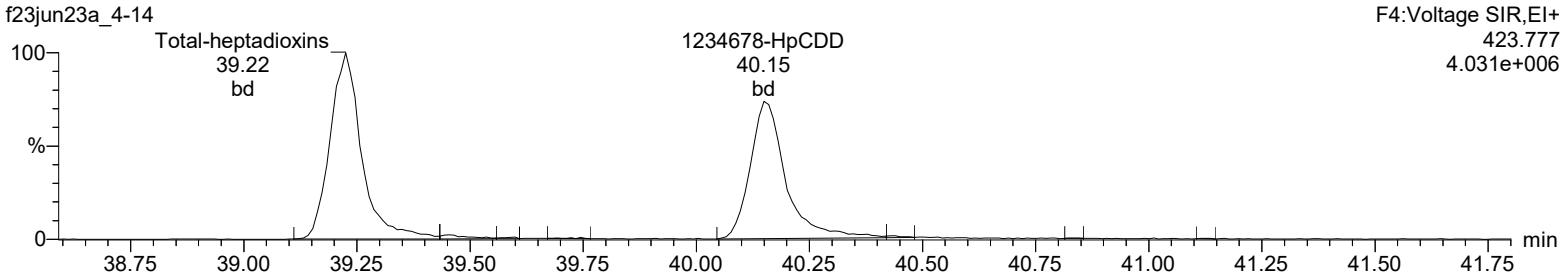
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

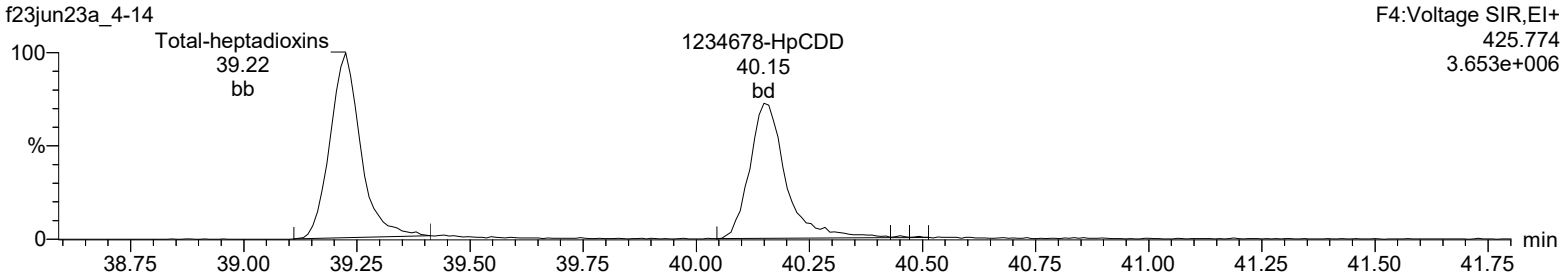
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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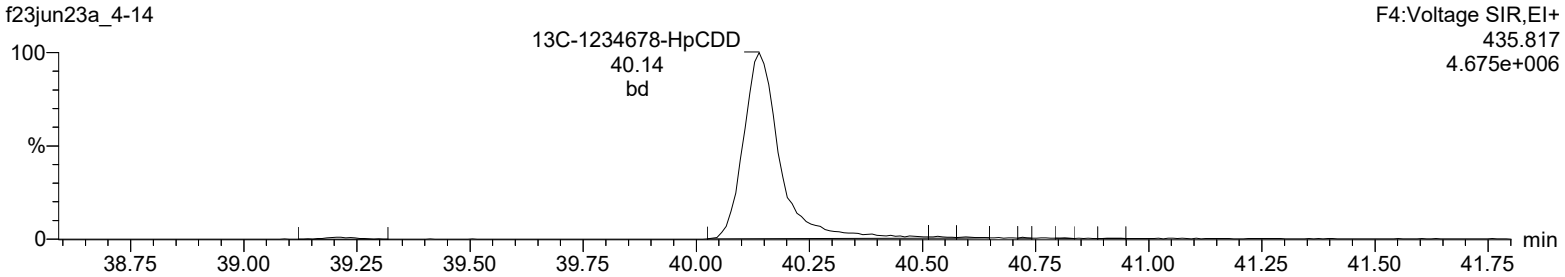

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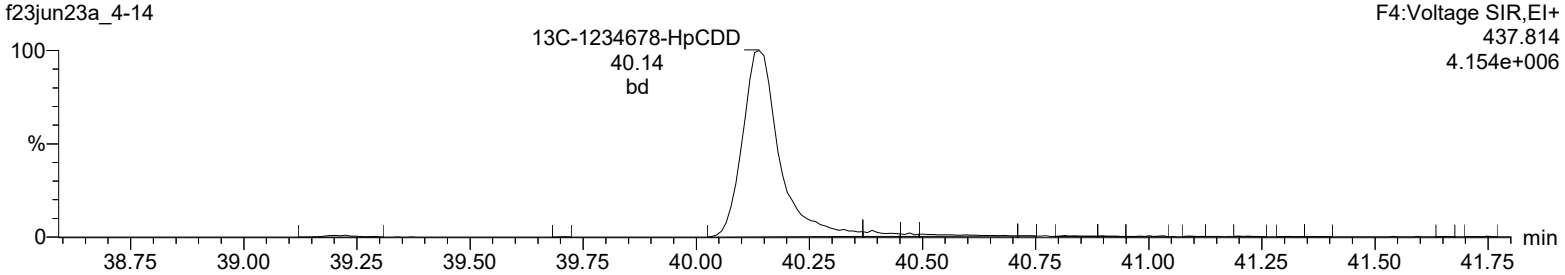
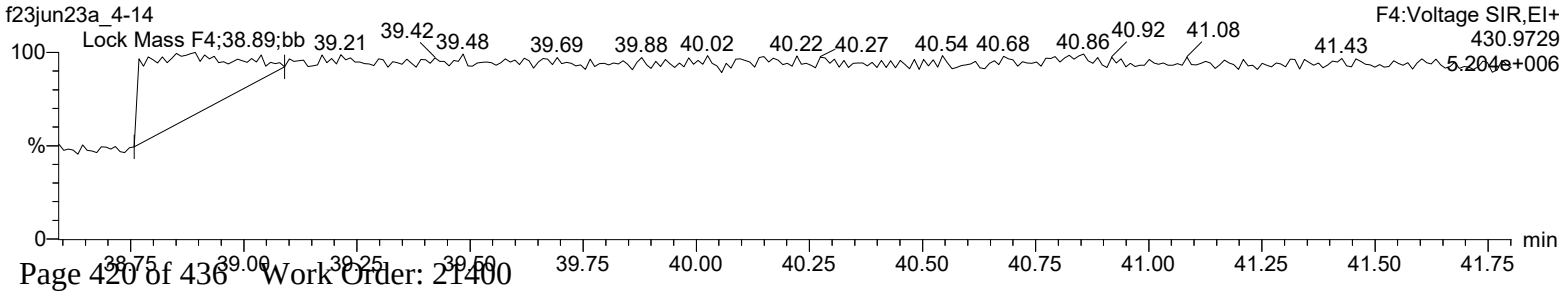


Lock Mass F4



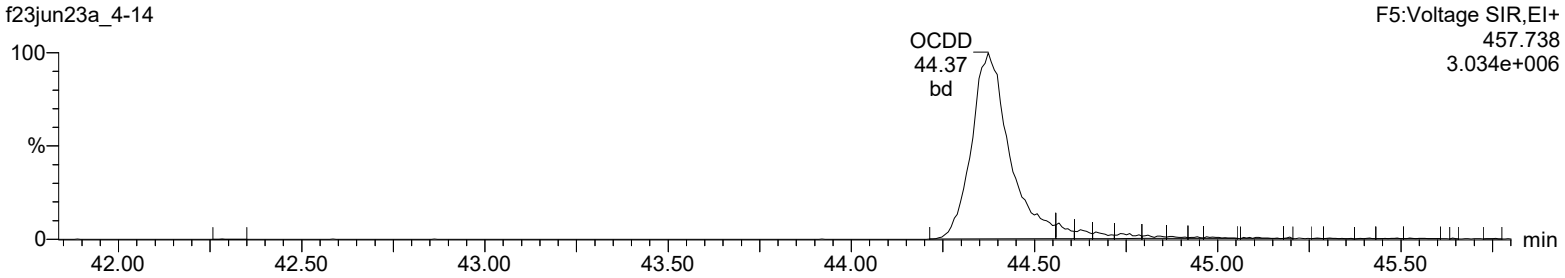
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

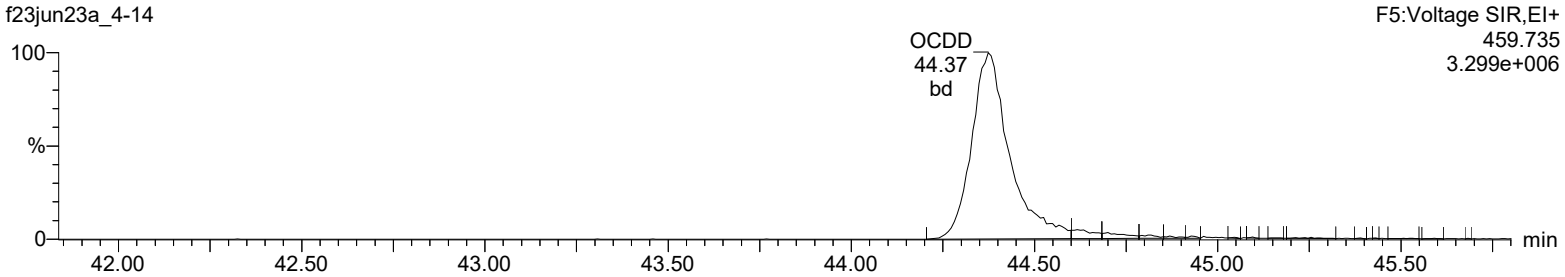
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

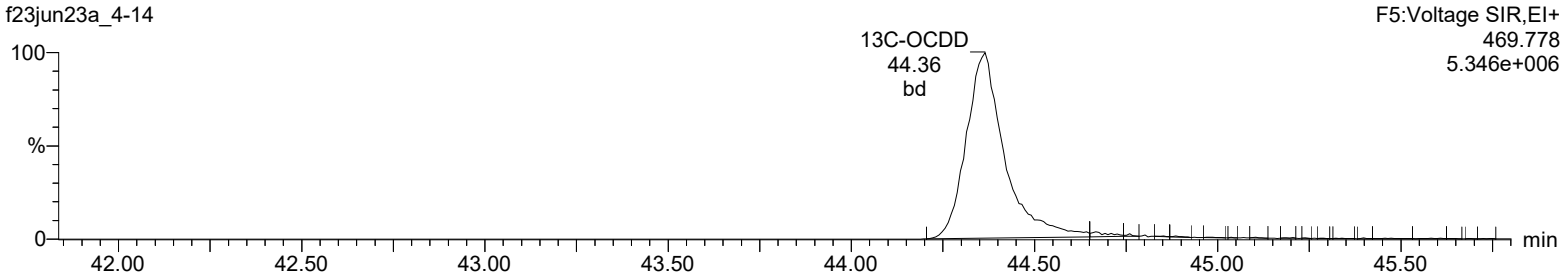
OCDD



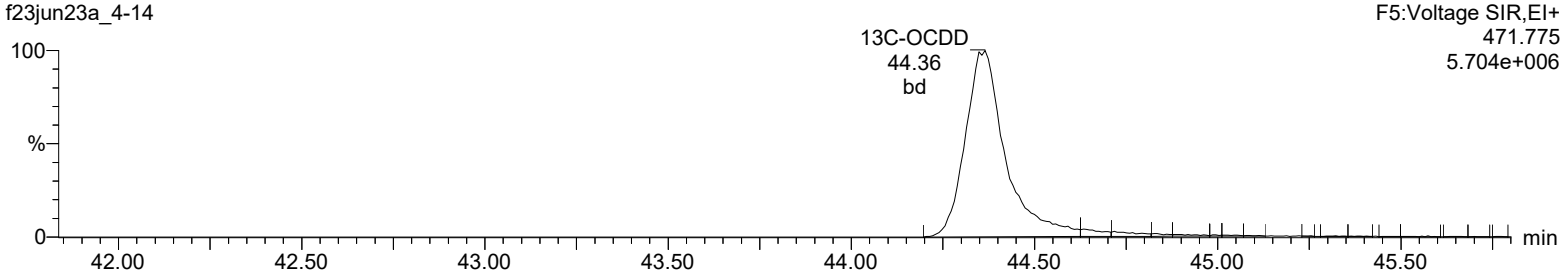
OCDD



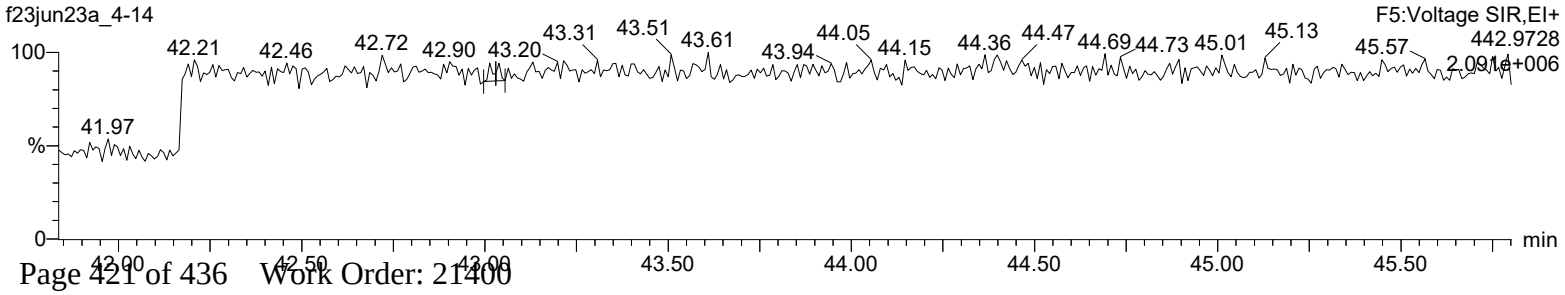
13C-OCDD



13C-OCDD



Lock Mass F5



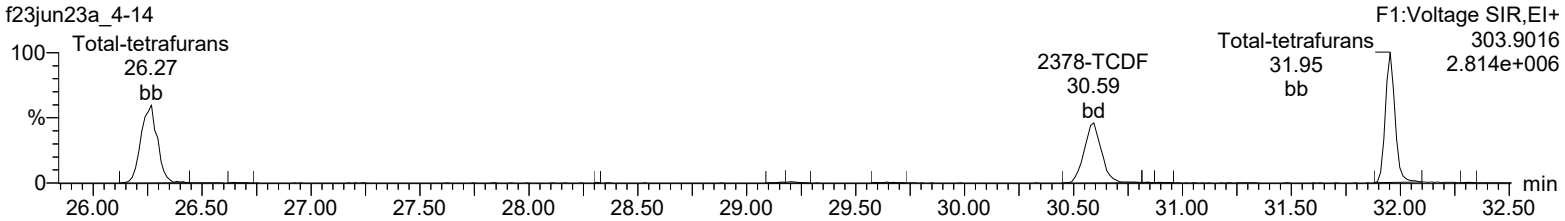
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

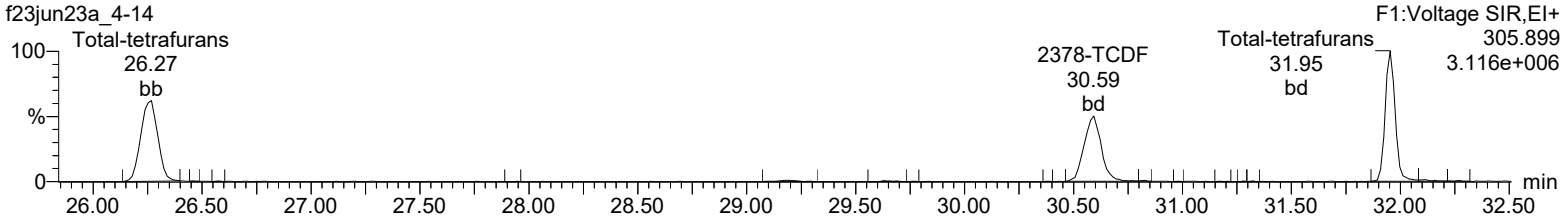
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

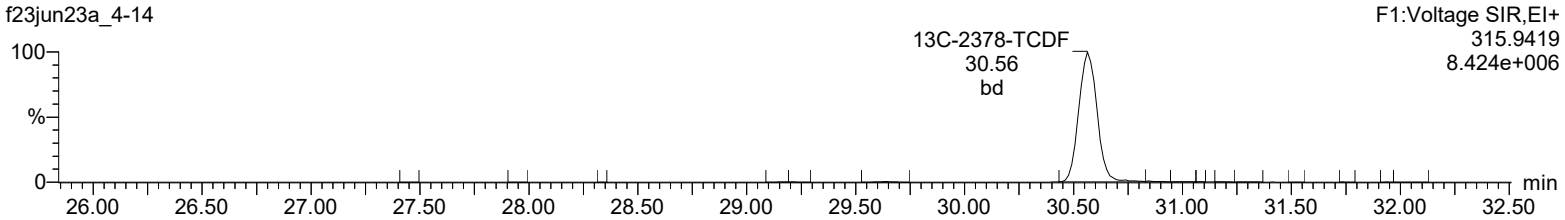
Total-tetrafurans



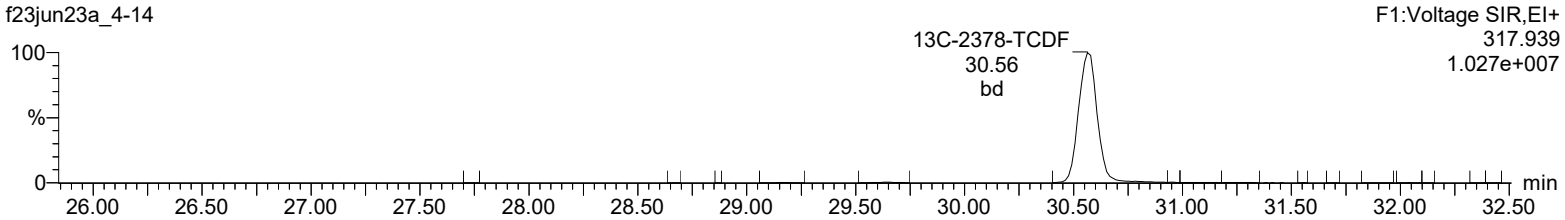
Total-tetrafurans



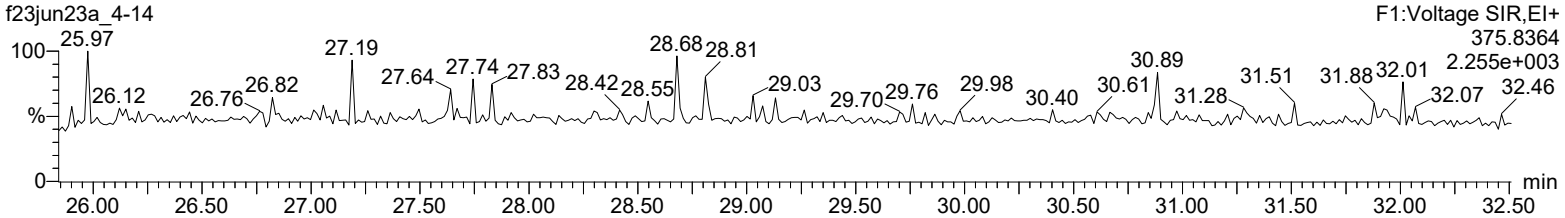
13C-2378-TCDF



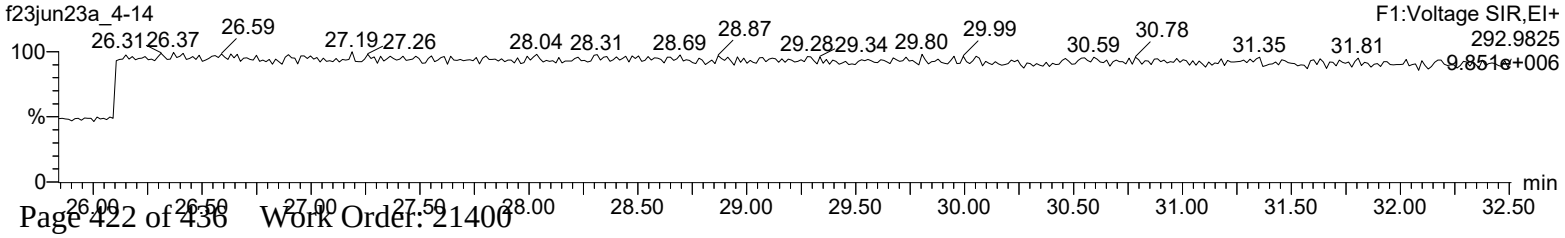
13C-2378-TCDF



HxDPE



Lock Mass F1



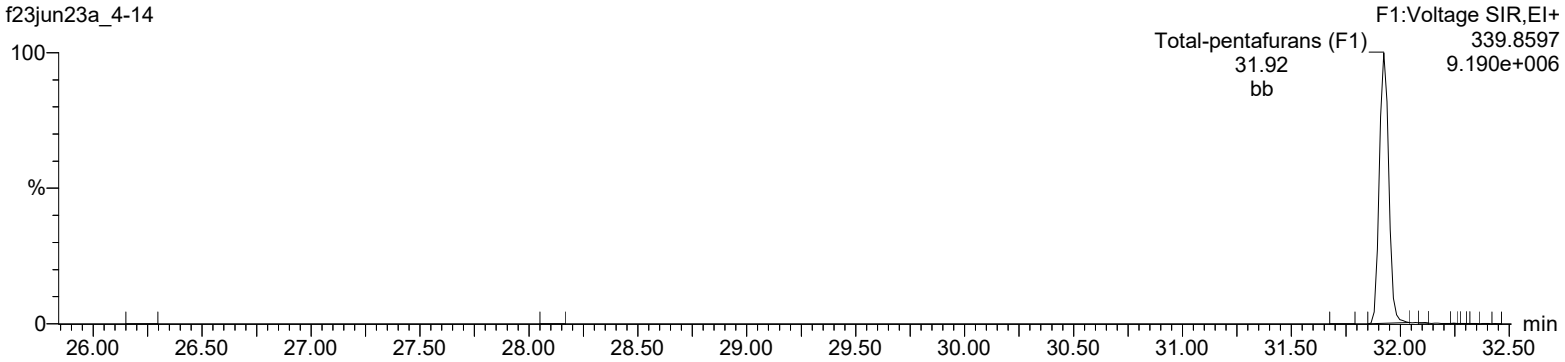
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

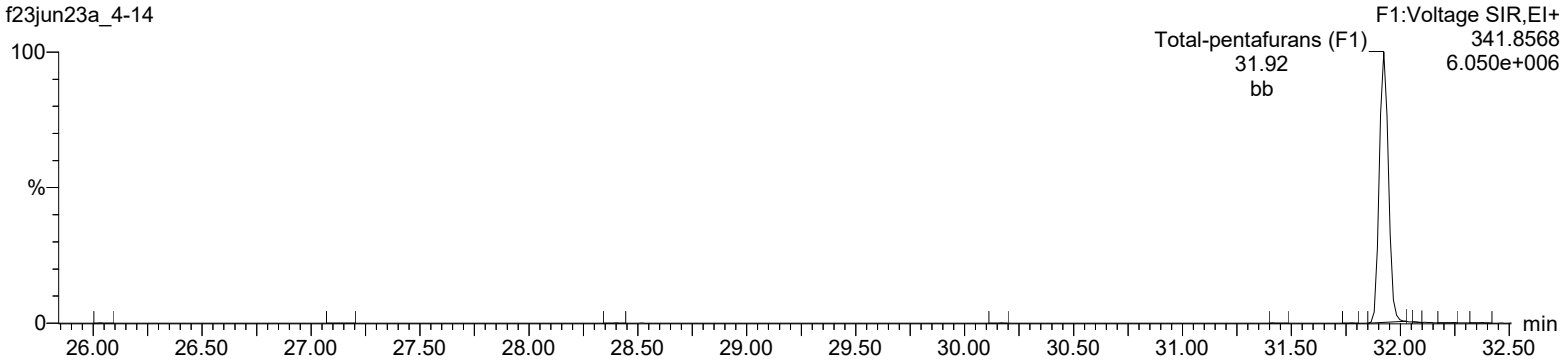
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

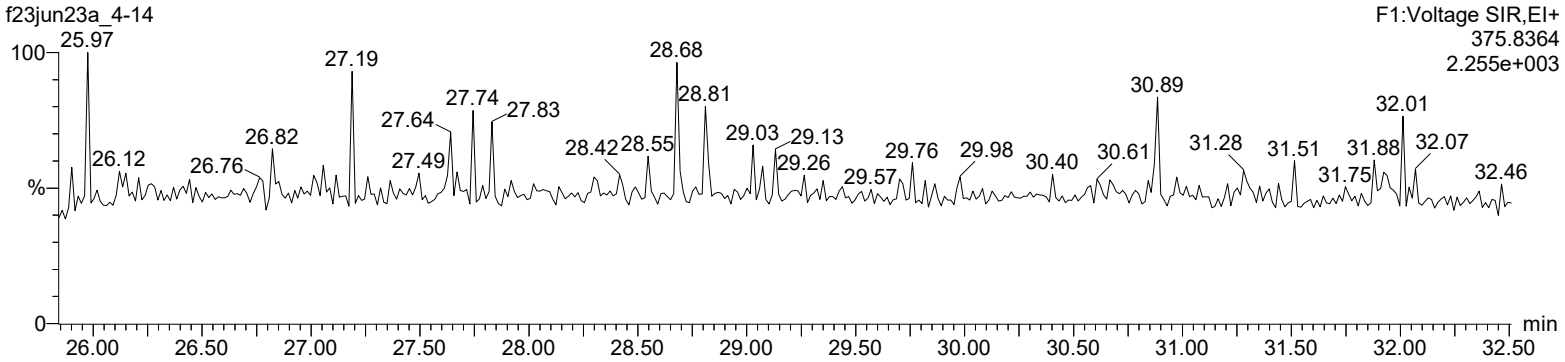
Total-pentafurans (F1)



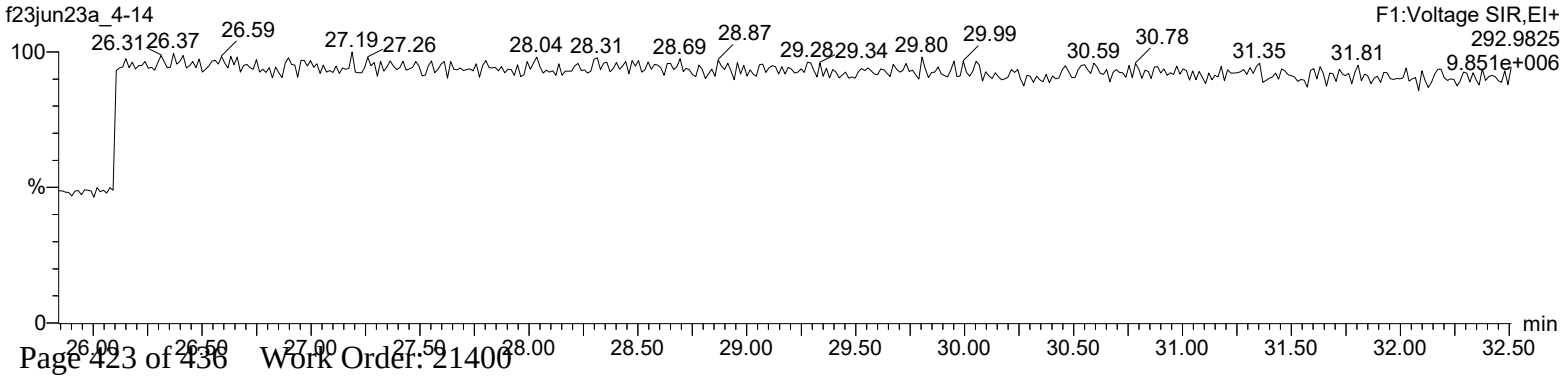
Total-pentafurans (F1)



HxDPE



Lock Mass F1



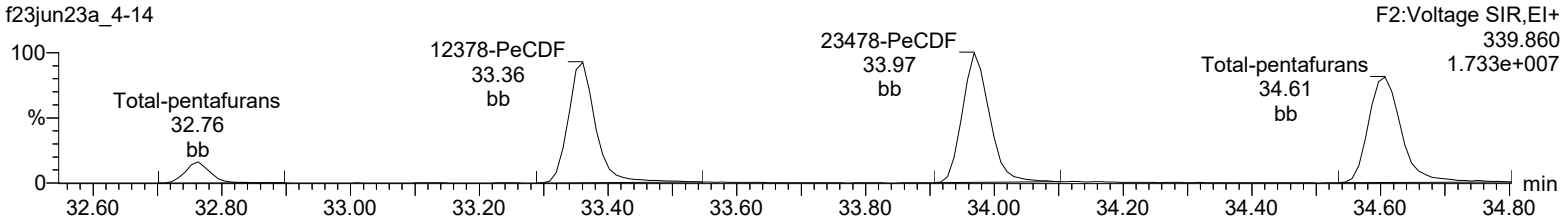
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

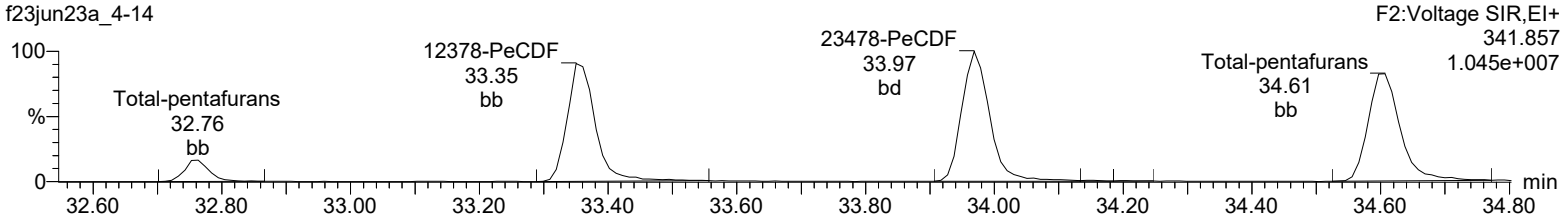
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

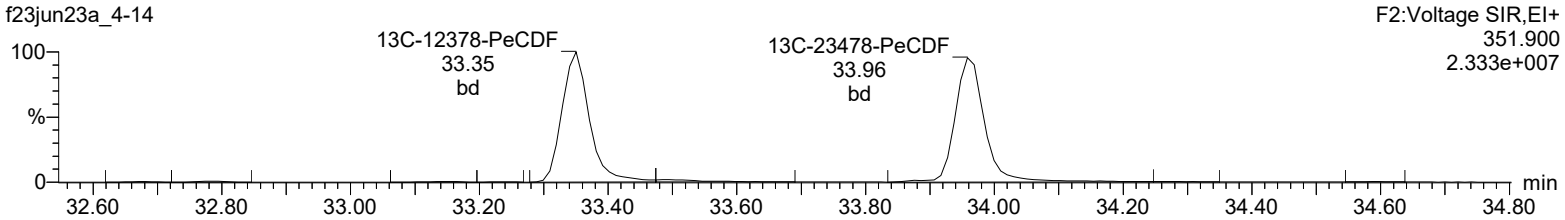
Total-pentafurans



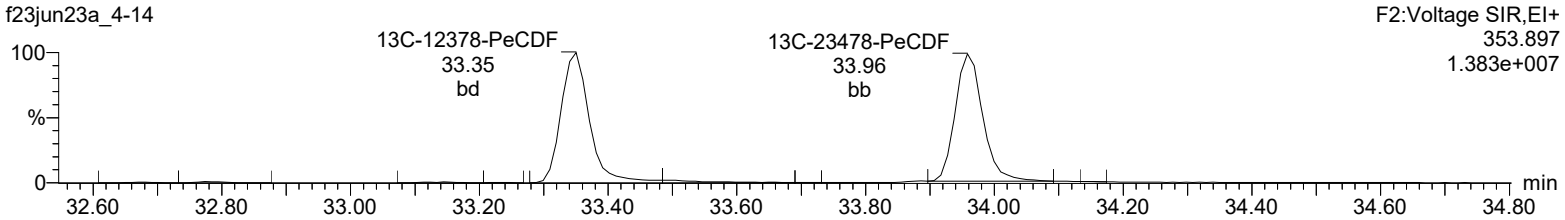
Total-pentafurans



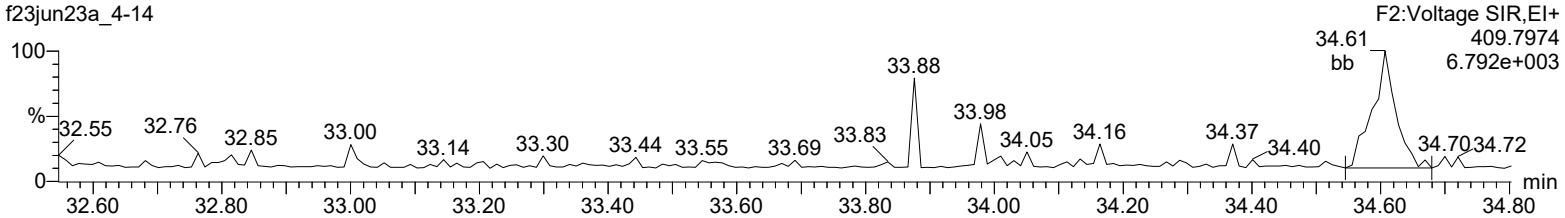
13C-12378-PeCDF



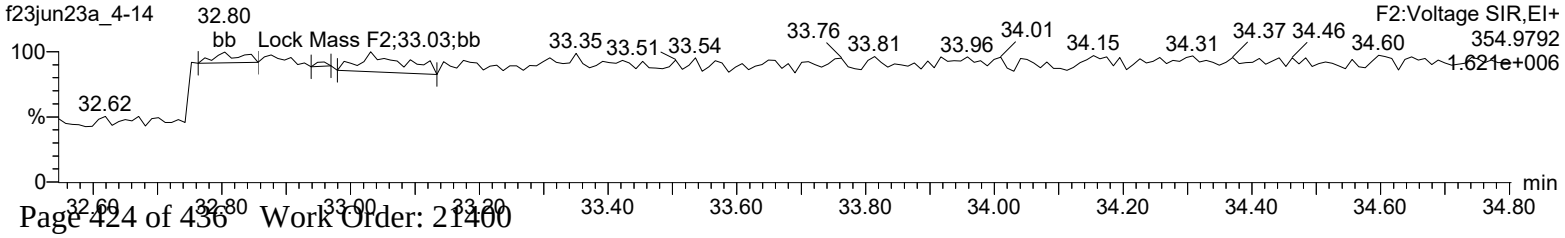
13C-12378-PeCDF



HpDPE



Lock Mass F2



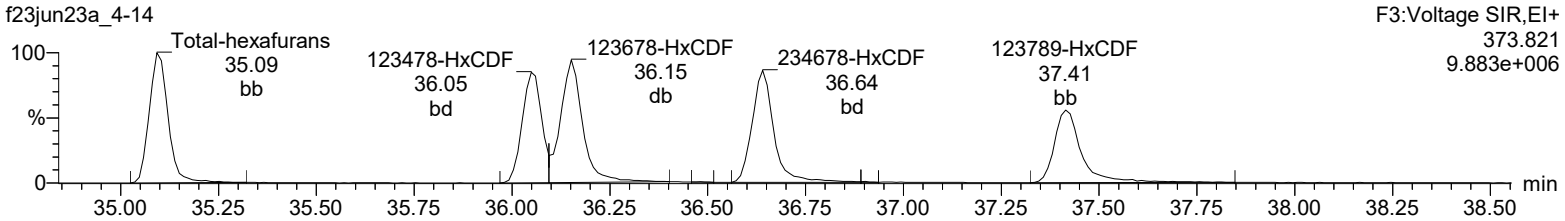
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

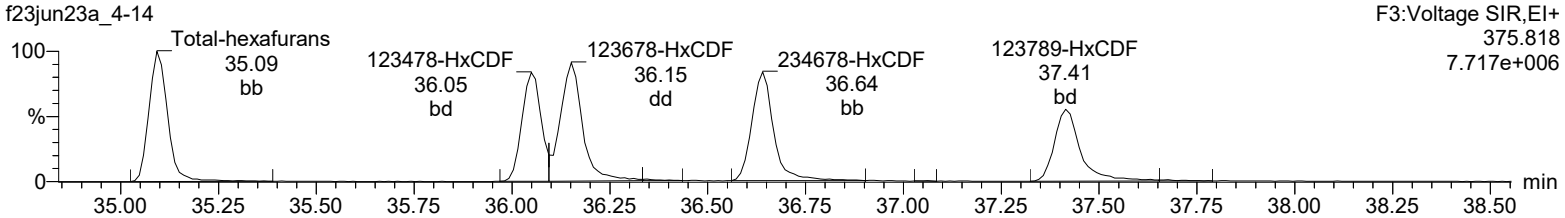
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

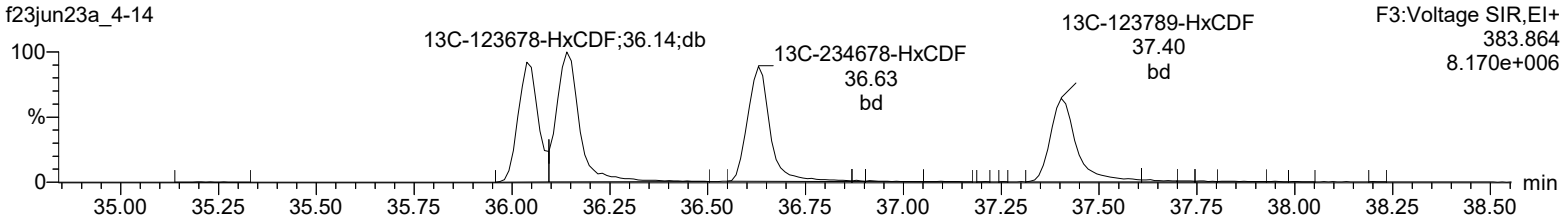
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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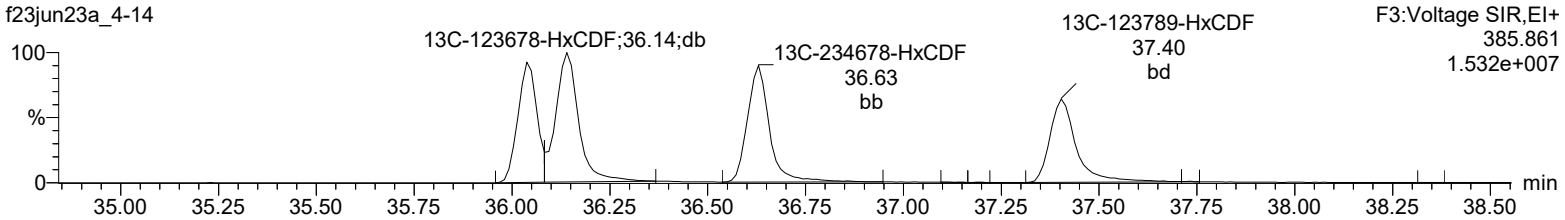
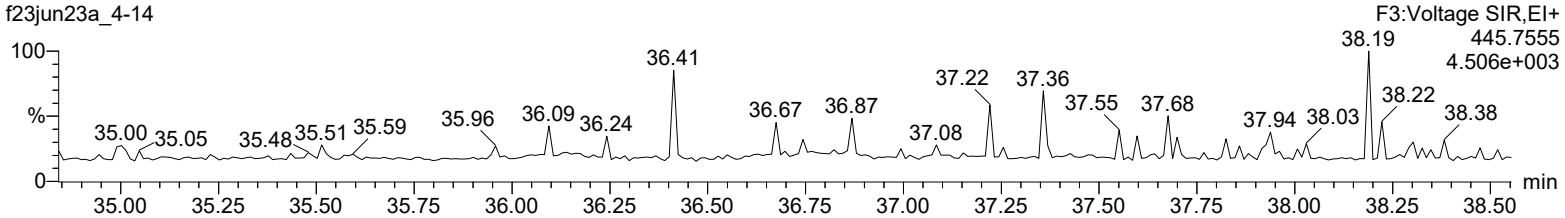
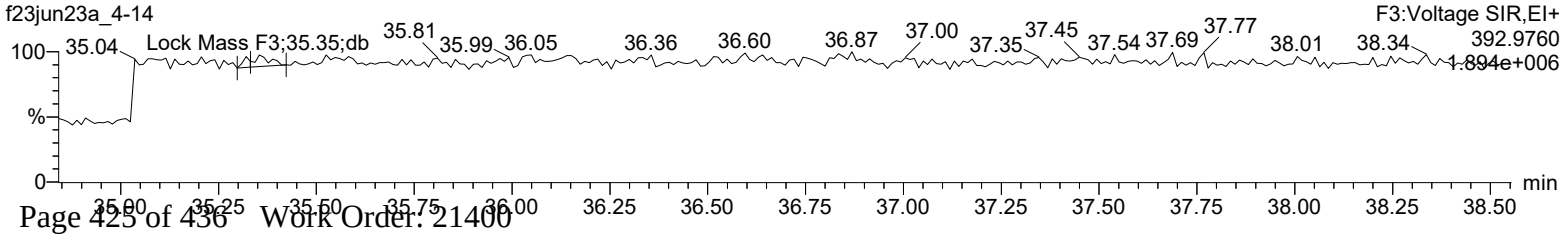


OcDPE



Lock Mass F3



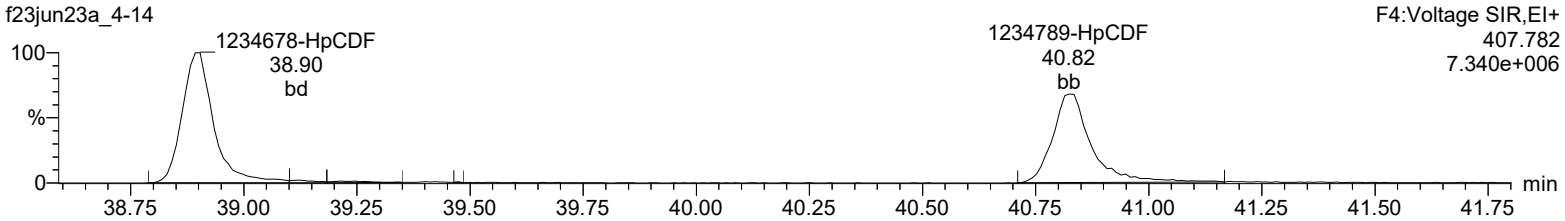
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

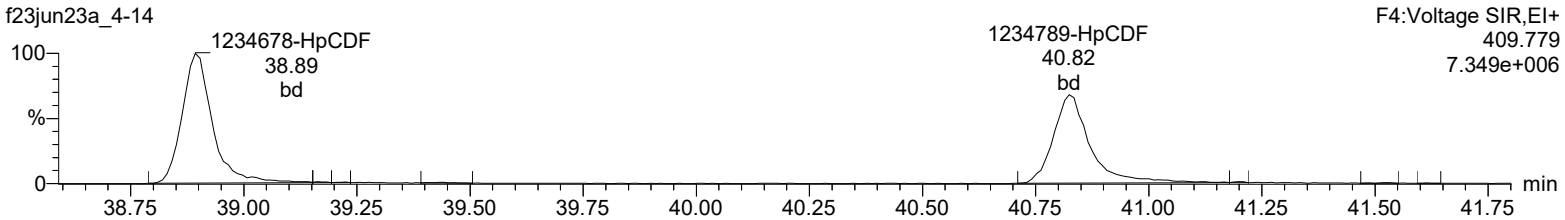
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

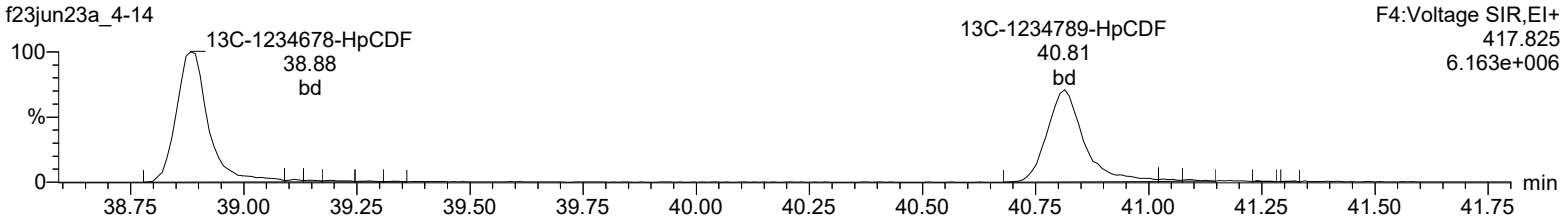
Total-heptafurans



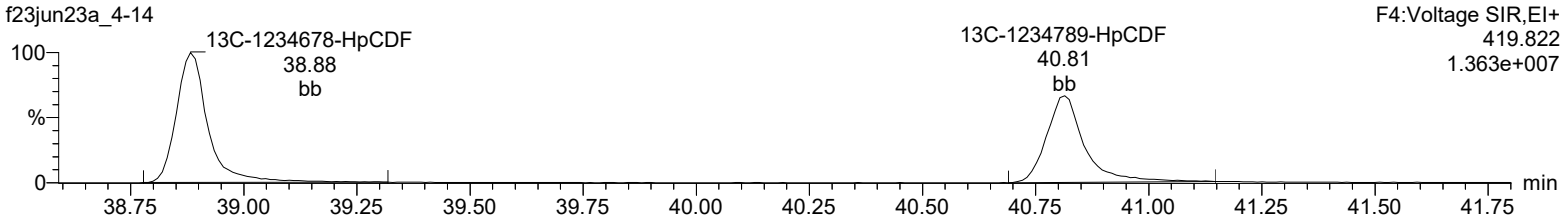
Total-heptafurans



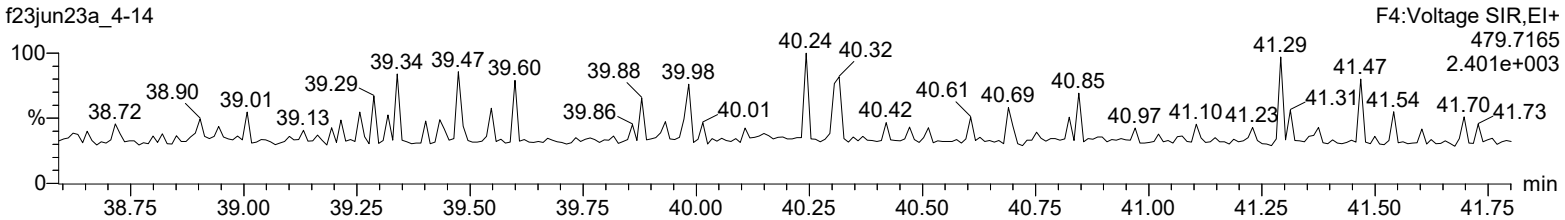
13C-1234678-HpCDF



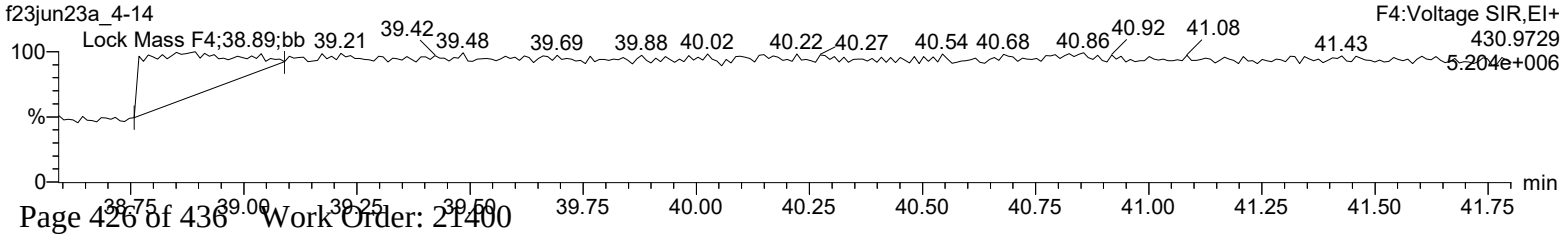
13C-1234678-HpCDF



NoDPE



Lock Mass F4



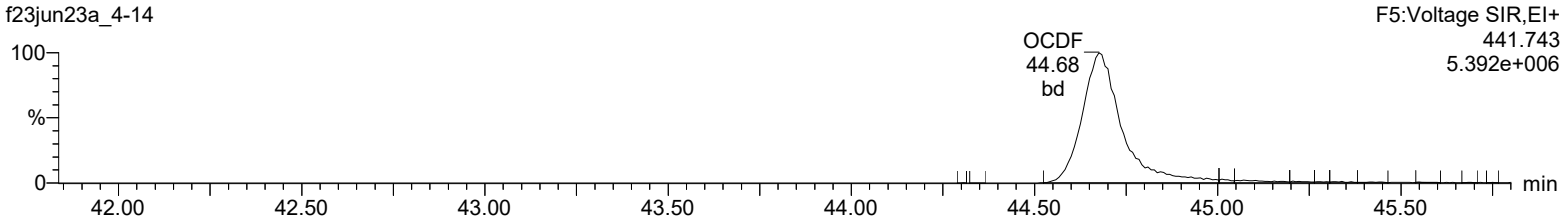
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_4-14.qld

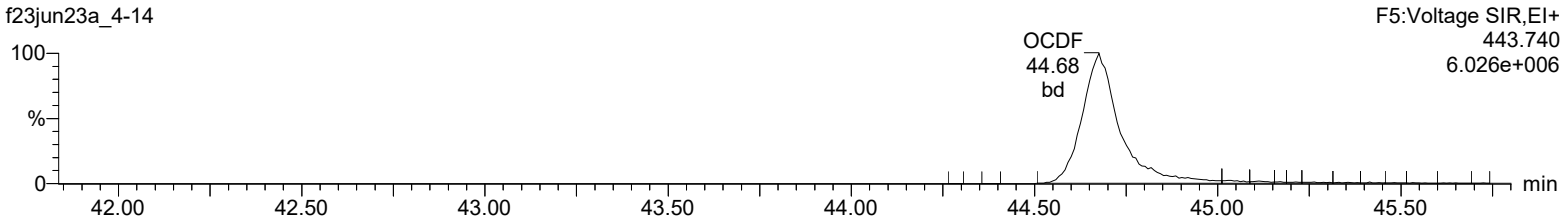
Last Altered: Monday, June 26, 2023 11:02:31 Eastern Daylight Time
Printed: Monday, June 26, 2023 11:08:43 Eastern Daylight Time

Name: f23jun23a_4-14, Date: 25-Jun-2023, Time: 06:54:46, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_4, Task: HRP722_2, User: MW1

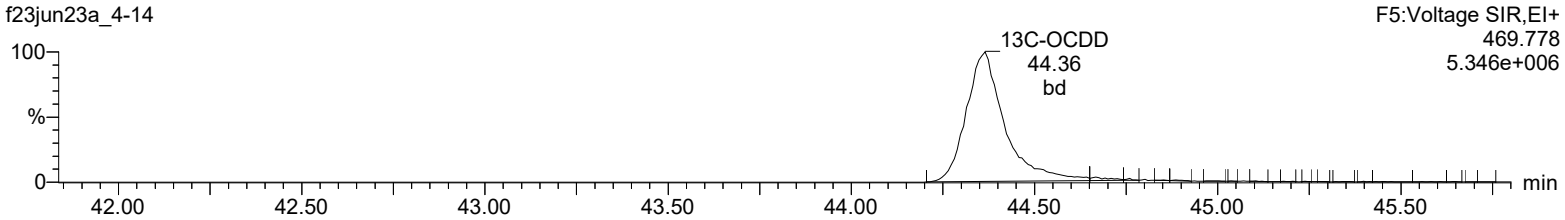
OCDF



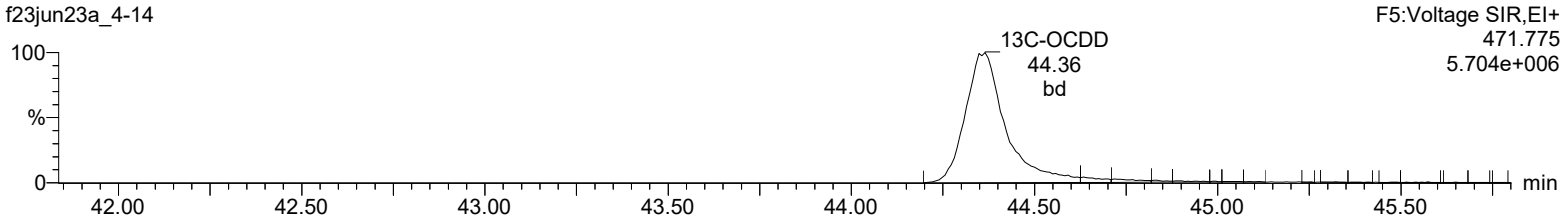
OCDF



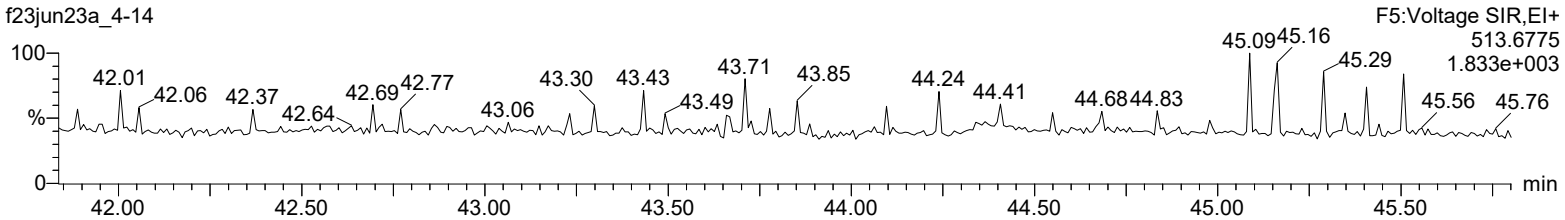
13C-OCDD



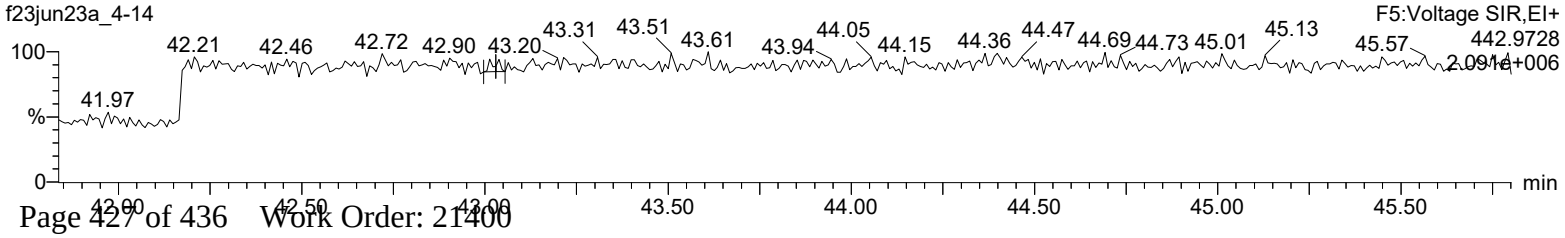
13C-OCDD



DeDPE



Lock Mass F5



Logbooks

Prep Logbook

3520C for 1613 and 8290

Batch ID: 52695
Analyst: Dakota Spurley
Method: SW846 3520C

Lab SOP: CF-OA-E-002 REV# 21
Instrument: B1-Scout Pro (SPX422)

Sample ID	Start Run Date	Initial Weight (g)	Final weight (g)	Aliquot (mL)	pH (su)	ES Amount (uL)	ES Serial#	MX Amount (uL)	MX Serial#
12034325 MB	23-MAY-2023 10:45	1400	400	1000	5	40	WD230523-01 .05 ng/uL		
12034326 LCS	23-MAY-2023 10:45	1400	400	1000	5	40	WD230523-01 .05 ng/uL	40	WD230523-02 .005 ng/uL
12034327 LCSD	23-MAY-2023 10:45	1400	400	1000	5	40	WD230523-01 .05 ng/uL	40	WD230523-02 .005 ng/uL
21177001	23-MAY-2023 10:45	1454.1	446.1	1008	10	40	WD230523-01 .05 ng/uL		
21297001	23-MAY-2023 10:45	1457.8	451	1006.8	8	40	WD230523-01 .05 ng/uL		
21297002	23-MAY-2023 10:45	1442.1	453.1	989	8	40	WD230523-01 .05 ng/uL		
21309001	23-MAY-2023 10:45	1407.4	481.5	925.9	8	40	WD230523-01 .05 ng/uL		
21309002	23-MAY-2023 10:45	1390.5	481.2	909.3	8	40	WD230523-01 .05 ng/uL		
21309003	23-MAY-2023 10:45	1372.9	483.9	889	8	40	WD230523-01 .05 ng/uL		
21309004	23-MAY-2023 10:45	1327.9	481.3	846.6	8	40	WD230523-01 .05 ng/uL		
21309005	23-MAY-2023 10:45	1450.3	481.5	968.8	8	40	WD230523-01 .05 ng/uL		
21400001	23-MAY-2023 10:45	1504.9	505.7	999.2	7	40	WD230523-01 .05 ng/uL		
21400002	23-MAY-2023 10:45	1530.8	508.6	1022.2	7	40	WD230523-01 .05 ng/uL		
21400003	23-MAY-2023 10:45	1507.5	515.9	991.6	7	40	WD230523-01 .05 ng/uL		
21400004	23-MAY-2023 10:45	1502.2	510.8	991.4	7	40	WD230523-01 .05 ng/uL		
21400005	23-MAY-2023 10:45	1511.2	506.9	1004.3	7	40	WD230523-01 .05 ng/uL		

Prep Logbook

Batch ID: 52695
Analyst: Dakota Spurley
Method: SW846 3520C

Lab SOP: CF-OA-E-002 REV# 21
Instrument: B1-Scout Pro (SPX422)

Sample ID	Start Run Date	Initial Weight (g)	Final weight (g)	Aliquot (mL)	pH (su)	ES Amount (uL)	ES Serial#	MX Amount (uL)	MX Serial#
21400006	23-MAY-2023 10:45	1517.2	509.5	1007.7	7	40	WD230523-01 .05 ng/uL		
21423001	23-MAY-2023 10:45	1481.3	510.9	970.4	7	40	WD230523-01 .05 ng/uL		
21423002	23-MAY-2023 10:45	1514.8	511	1003.8	7	40	WD230523-01 .05 ng/uL		
21423003	23-MAY-2023 10:45	1514.3	514.1	1000.2	7	40	WD230523-01 .05 ng/uL		
21423004	23-MAY-2023 10:45	1473	512.1	960.9	7	40	WD230523-01 .05 ng/uL		
21423005	23-MAY-2023 10:45	1429.5	512.8	916.7	7	40	WD230523-01 .05 ng/uL		

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Concentrated Sulfuric Acid	1530446-A.2	1	mL
REAGENT		Methylene Chloride	1532191	250	mL
REAGENT		Acetone	1533388-A.9	100	uL
REAGENT		Salt	1533594	25	g
STANDARD		1613 Extraction Standard	WD230523-01	40	uL

Comments:

ES = Labeled isotopes added prior to extraction MX = Native isotopes added prior to extraction CS = Labeled isotopes added prior to fractionation JS = Labeled isotopes added prior to injection

Sample 21177001 PH lowered with Sulfuric Acid.

Finish Date/Time: 24-MAY-23 08:10:00

Prep Logbook

Cleanup Procedure for Liquids

Batch ID: 52696
Analyst: Mike Medwedeff

Lab SOP:
Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Train	Aliqout Analyzed (percent)	CS Amount (uL)	CS Serial#
12034325 MB	24-MAY-2023 10:00	AB Silica Florisil	58	100	20	WD230522-03 .01 ng/uL
12034326 LCS	24-MAY-2023 10:00	AB Silica Florisil	85	100	20	WD230522-03 .01 ng/uL
12034327 LCSD	24-MAY-2023 10:00	AB Silica Florisil	102	100	20	WD230522-03 .01 ng/uL
21177001	24-MAY-2023 10:00	AB Silica Florisil	95	100	20	WD230522-03 .01 ng/uL
21297001	24-MAY-2023 10:00	AB Silica Florisil	194	100	20	WD230522-03 .01 ng/uL
21297002	24-MAY-2023 10:00	AB Silica Florisil	52	100	20	WD230522-03 .01 ng/uL
21309001	24-MAY-2023 10:00	AB Silica Florisil	45	100	20	WD230522-03 .01 ng/uL
21309002	24-MAY-2023 10:00	AB Silica Florisil	104	100	20	WD230522-03 .01 ng/uL
21309003	24-MAY-2023 10:00	AB Silica Florisil	76	100	20	WD230522-03 .01 ng/uL
21309004	24-MAY-2023 10:00	AB Silica Florisil	96	100	20	WD230522-03 .01 ng/uL
21309005	24-MAY-2023 10:00	AB Silica Florisil	97	100	20	WD230522-03 .01 ng/uL
21400001	24-MAY-2023 10:00	AB Silica Florisil	148	100	20	WD230522-03 .01 ng/uL
21400002	24-MAY-2023 10:00	AB Silica Florisil	174	100	20	WD230522-03 .01 ng/uL
21400003	24-MAY-2023 10:00	AB Silica Florisil	51	100	20	WD230522-03 .01 ng/uL
21400004	24-MAY-2023 10:00	AB Silica Florisil	88	100	20	WD230522-03 .01 ng/uL
21400005	24-MAY-2023 10:00	AB Silica Florisil	11	100	20	WD230522-03 .01 ng/uL
21400006	24-MAY-2023 10:00	AB Silica Florisil	55	100	20	WD230522-03 .01 ng/uL
21423001	24-MAY-2023 10:00	AB Silica Florisil	66	100	20	WD230522-03 .01 ng/uL
21423002	24-MAY-2023 10:00	AB Silica Florisil	74	100	20	WD230522-03 .01 ng/uL
21423003	24-MAY-2023 10:00	AB Silica Florisil	23	100	20	WD230522-03 .01 ng/uL
21423004	24-MAY-2023 10:00	AB Silica Florisil	33	100	20	WD230522-03 .01 ng/uL
21423005	24-MAY-2023 10:00	AB Silica Florisil	31	100	20	WD230522-03 .01 ng/uL

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Glass Wool	1529877-A.3	1	each

Comments:

CS = Labeled isotopes added prior to fractionation

Prep Logbook

Batch ID: **52696**
Analyst: **Mike Medwedeff**

Lab SOP:
Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Train	Aliqout Analyzed (percent)	CS Amount (uL)	CS Serial#
REAGENT	Baked Silica		1531677	2	g	
REAGENT	Methylene Chloride		1532191	100	mL	
REAGENT	Activated Florisil		1532204	1	g	
REAGENT	Acid silica		1532755	7	g	
REAGENT	Base silica		1532757-C	3	g	
REAGENT	Hexane		1533040-A.15	130	mL	
REAGENT	Hexane		1533042-A.16	130	mL	
REAGENT	Hexane		1533227-A.1	130	mL	
REAGENT	Salt		1533594	1	g	

Prep Logbook

Method 1613B HRMS Aqueous Analysis

Batch ID: 52698
Analyst: Mallory Walton Skye McKinnon
Method: EPA Method 1613B

Lab SOP: CF-OA-E-002 REV# 21
Instrument: Waters Autospec Premier High-Resolution GC/MS

Sample ID	Start Run Date	Final Volume (uL)	Prep Factor (Final Volume /Aliquot) (uL/uL)	Dilution	Dilution Type	Injection Volume (uL)	Vial Prep Date
21309001	20-JUN-2023 11:22	20	2.16E-05	1	Internal	1	20-JUN-2023
21309002	20-JUN-2023 11:22	20	2.20E-05	1	Internal	1	20-JUN-2023
21309003	20-JUN-2023 11:22	20	2.25E-05	1	Internal	1	20-JUN-2023
21309004	20-JUN-2023 11:22	20	2.36E-05	1	Internal	1	20-JUN-2023
21309005	20-JUN-2023 11:22	20	2.06E-05	1	Internal	1	20-JUN-2023
21423001	20-JUN-2023 11:22	20	2.06E-05	1	Internal	1	20-JUN-2023
21423002	20-JUN-2023 11:22	20	1.99E-05	1	Internal	1	20-JUN-2023
21423003	20-JUN-2023 11:22	20	2.00E-05	1	Internal	1	20-JUN-2023
21423004	20-JUN-2023 11:22	20	2.08E-05	1	Internal	1	20-JUN-2023
21423005	20-JUN-2023 11:22	20	2.18E-05	1	Internal	1	20-JUN-2023
21400001	24-JUN-2023 03:47	20	2.00E-05	1	Internal	1	20-JUN-2023
21400002	24-JUN-2023 04:36	20	1.96E-05	1	Internal	1	20-JUN-2023
21400003	24-JUN-2023 05:25	20	2.02E-05	1	Internal	1	20-JUN-2023
21400004	24-JUN-2023 06:14	20	2.02E-05	1	Internal	1	20-JUN-2023
21400005	24-JUN-2023 07:03	20	1.99E-05	1	Internal	1	20-JUN-2023
12034326 LCS	24-JUN-2023 08:48	20	2.00E-05	1	Internal	1	20-JUN-2023
12034327 LCSD	24-JUN-2023 09:36	20	2.00E-05	1	Internal	1	20-JUN-2023
12034325 MB	24-JUN-2023 10:25	20	2.00E-05	1	Internal	1	20-JUN-2023
21400006	25-JUN-2023 15:59	20	1.98E-05	1	Internal	1	20-JUN-2023

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		8290 Injection Standard	wd230616-03	20	uL
STANDARD		8290 Injection Standard	wd230616-03	20	uL

Comments:

ES = Labeled isotopes added prior to extraction
MX = Native isotopes added prior to extraction
CS = Labeled isotopes added prior to fractionation

Prep Logbook

Batch ID: 52698
Analyst: Mallory Walton Skye McKinnon
Method: EPA Method 1613B

Lab SOP: CF-OA-E-002 REV# 21
Instrument: Waters Autospec Premier High-Resolution GC/MS

Sample ID	Start Run Date	Final Volume (uL)	Prep Factor (Final Volume /Aliquot) (uL/uL)	Dilution	Dilution Type	Injection Volume (uL)	Vial Prep Date

JS = Labeled isotopes added prior to injection

Miscellaneous

No non conformance reports were generated for this work order